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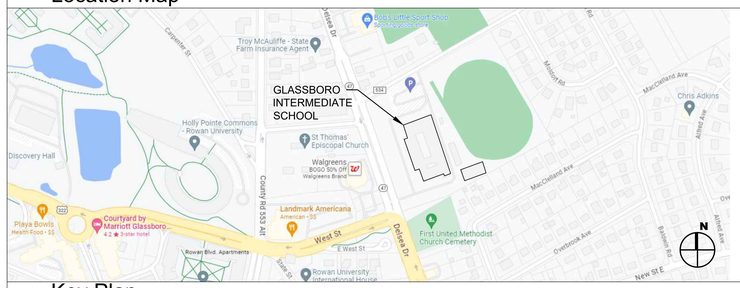
ROWAN UNIVERSITY ALTERATIONS TO FACILITY LOCATED AT: 202 DELSEA DR. GLASSBORO, NJ 08028

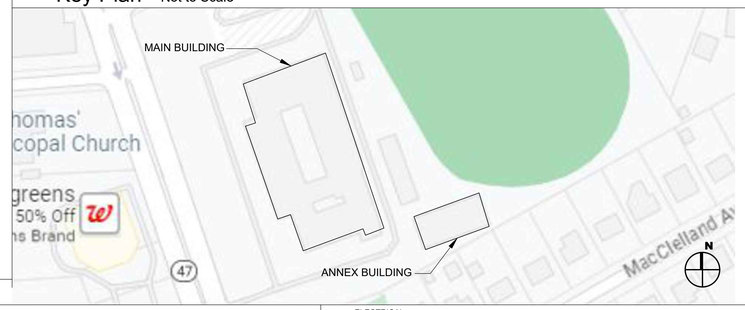
BLOCK: 26 / LOT 412

PROJECT NUMBER: 25.024

Location Map



Key Plan - Not to Scale



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Deduct Alternates

DEDUCT BID #1 REMOVE SITE LIGHTING FOR EXISTING PARKING LOT ALONG FISH POND ROAD
DEDUCT BID #2 REMOVE PARKING LOT ASPHALT SEAL COAT OVER EXISTING PAVEMENT
DEDUCT BID #3 REMOVE SECOND & THIRD FLOOR GANG TOILET ROOMS
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FP-201 FP SCHEDULES & DETAILS

Abbreviations

A.G.	ABOVE GRADE
A.F.F.	ABOVE FINISH FLOOR
ALUM.	ALUMINUM
@	AT
ACOUS.	ACOUSTIC
ALT.	ALTERNATE
BM.	BEAM
B.E.J.	BUILDING EXPANSION JOINT
BET.	BETWEEN
BLK.	BLOCK OR BLOCKING
BD.	BOARD
BOT.	BOTTOM
BLDG.	BUILDING
B.O.	BOTTOM OF
C.B.	COLLECTOR BOX
CEM.	CEMENT
CEM. PLAS.	CEMENT PLASTER
C.L.	CENTER LINE
CONC.	CONCRETE
C.M.U.	CONCRETE MASONRY UNIT
CONT.	CONTINUOUS
CONTR.	CONTRACTOR
C.J.	CONTROL JOINT
COORD.	COORDINATE
CTSK.	COUNTERSUNK
DET.	DETAIL
DIAM.	DIAMETER
D.F.	DRINKING FOUNTAIN
DR.	DOOR
DN.	DOWN
EA.	EACH
EL.	ELEVATION
E.O.S.	EDGE OF SLAB
EXIST.	EXISTING
EXP. JT.	EXPANSION JOINT
EXP.	EXPOSED
EXT.	EXTERIOR
EXTR.	EXTRUDED
FT.	FEET
FIN.	FINISH
FIN. FLR.	FINISH FLOOR
F.G	FINISH GRADE
F.E	FIRE EXTINGUISHER
F.P.	FIREPROOFING
F.O.	FACE OF
FL.	FLOOR
F.D.	FLOOR DRAIN
F.O.W.	FACE OF WALL
FNDTN.	FOUNDATION
GALV.	GALVANIZED
GA.	GAUGE
G.C.	GENERAL CONTRACTOR
H.R.	HAND RAIL
HDWR.	HARDWARE
H.S.S.	STEEL TUBE BEAM OR COLUMN
HT.	HEIGHT
H.P.	HIGH POINT
H.M.	HOLLOW METAL
HOR.	HORIZONTAL
I.D.	INSIDE DIAMETER
I.D.F.	INTERMEDIATE DISTRIBUTION FRAME
INSUL.	INSULATION
L.D.R.	LEADER
L.P.	LOW POINT
M.H.	MANHOLE
M.O.	MASONRY OPENING
MAX.	MAXIMUM
M.E.P.	MECHANICAL, ELECTRICAL & PLUMBING
M.E.R.	MECHANICAL EQUIPMENT ROOM
MTL.	METAL
M.F.D.	METAL FLOOR DECK
M.F.T.R.	MANUFACTURER
M.R.D.	METAL ROOF DECK
MISC.	MISCELLANEOUS
N.	NORTH
N.J.P.E.	NEW JERSEY PROFESSIONAL ENGR.
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
NO.	NUMBER
O.C.	ON CENTER
OPNG.	OPENING
O.D.	OUTSIDE DIAMETER
O.A.	OVERALL
PART.	PARTITION
PLAS.	PLASTER
PL.	PLATE
PNT.	PAINT
P.T.	PRESSURE TREATED
PTD.	PAINTED
REV.	REVISION
R.	RISERS
R.D.	ROOF DRAIN
RM.	ROOM
R.O.	ROUGH OPENING
SECT.	SECTION
S.P.	STEEL PIPE COLUMN
SPECS.	SPECIFICATIONS
SQ.	SQUARE
SQ. FT.	SQUARE FEET
S.S.	STAINLESS STEEL
ST. STL.	STAINLESS STEEL
STL.	STEEL
STRUCT.	STRUCTURAL
SUSP.	SUSPENDED
T.O.	TOP OF
T.O.C.	TOP OF CURB
T.O.S.	TOP OF SLAB
T.O.STL.	TOP OF STEEL
T.	TREADS
T.O.P.	TOP OF PARAPET
T.O.W.	TOP OF WALL
TYP.	TYPICAL
U.L.	UNDERWRITERS LABORATORY
U.O.N.	UNLESS OTHERWISE NOTED
VERT.	VERTICAL
V.I.F.	VERIFY IN FIELD
W.C.	WATER CLOSET
W.F.	WIDE FLANGE BEAM OR COLUMN
W.P.	WORK POINT
WPFG.	WATERPROOFING
WWM.	WELDED WIRE MESH
W/	WITH
WD.	WOOD

Symbols

MATERIAL DESIGNATION

GRAVEL OR POROUS FILL
GROUT
CONCRETE
EARTH
PROTECTION BOARD/ GYPSUM BOARD
RIGID INSULATION
CONCRETE MASONRY UNITS
PLYWOOD
NEW PARTITION COORD. WITH PARTITION TYPE (A)
BRICK/ CMU VENEER
STEEL

DETAILS & ELEVATIONS

WALL SECTION (# A### SIM)
BUILDING CROSS SECTION (# A### SIM)
ELEVATION TAG (# A###)
DETAIL (# A### SIM)

WINDOWS & DOORS

X WINDOW/ ALUMINUM FRAME
100.1 DOOR TAG (WITH NO AREA)

DATUM REFERENCE

FLOOR LINE LEVEL OR DATUM EL.(0'-0") (0'-0")

MISCELLANEOUS

(X) INTERIOR ELEVATION
(#) TOILET ACCESSORY BUILT-IN EQUIPMENT
GENERAL NOTE
D# DEMOLITION NOTE

DOCUMENT REVIEW

EACH CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL ARCHITECTURAL, CIVIL, STRUCTURAL, HVAC, FIRE PROTECTION, PLUMBING, ELECTRICAL & TECHNOLOGY DRAWINGS. ALL DOCUMENTS CONTAIN INFORMATION WHICH IS COMPLIMENTARY TO EACH TRADE AND MUST BE REVIEWED & UNDERSTOOD PRIOR TO BIDDING THIS PROJECT.

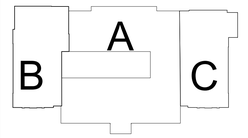
REFERENCE NOTES

NOTES PERTAINING TO SPECIFIC MATERIALS, DIMENSIONS, AND/ OR DESCRIPTIONS OF WORK AS THEY RELATE TO THE DRAWINGS ON WHICH THEY APPEAR. ALL REFERENCE NOTES ARE COMPLIMENTARY TO EACH DRAWING AND ARE TO BE CAREFULLY REVIEWED PRIOR TO CONSTRUCTION.

WORK

WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH NATIONAL, LOCAL & ALL OTHER APPLICABLE CODES & REQUIREMENTS AS DETERMINED BY AUTHORITIES HAVING JURISDICTION.

KEY PLAN:



No.	Date	Description
	12/08/25	OUT TO BID
	12/03/25	DCA Submission

Revisions / Issues

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Richard D. Alderiso , AIA
NJ RA AI 15023, NY RA 027416, PA RA 405474

DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date: 04/24/2025
Drawn By: TC
Checked By: KG

Sheet Name:
COVER SHEET

Sheet No:
CS-001
Sheet 001 of 000

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P:\2025\25.024 ROWAN GIS ROUND 5\DRAWINGS\CONDOCS\ADDDS GENERAL -COVER SCHEDULES PHASING ECT\

12/8/2025 2:24:13 PM

PROJECT INFORMATION

PROJECT NAME: ALTERATIONS TO FACILITY
PROJECT LOCATION: 202 DELSEA DRIVE
GLASSBORO, NJ 08028
BLOCK 28; LOT 412

PROJECT OWNER / APPLICANT: ROWAN UNIVERSITY
201 MULICA HILL ROAD
GLASSBORO, NJ 08028

ARCHITECTS: DI GROUP ARCHITECTURE
15 BETHANY STREET
NEW BRUNSWICK, NJ 08901
732-249-6242

SCOPE OF WORK

1. DEMOLITION OF A PORTION OF THE EXISTING BUILDING
2. RECONSTRUCTION OF EXISTING BUILDING
3. SITE IMPROVEMENTS

AREA OF PROPOSED WORK (RECONSTRUCTION PER REHAB CODE)
INTERIOR ALTERATION : 48,249 SF
BASEMENT : 9,458 SF
FIRST FLOOR : 20,739
SECOND FLOOR : 12,211
THIRD FLOOR : 5,841
TOTAL EXISTING FOOTPRINT : 39,068 SF

APPLICABLE CODES

CODE TYPE	APPLICABLE CODE
BUILDING	INTERNATIONAL BUILDING CODE 2021 (NEW JERSEY EDITION)
PLUMBING	NATIONAL STANDARD PLUMBING CODE 2021 (NEW JERSEY EDITION)
ELECTRICAL	NATIONAL ELECTRICAL CODE (NFPA 70) 2020
ENERGY	ENERGY SUBCODE ASHRAE 90.1-2019
MECHANICAL	INTERNATIONAL MECHANICAL CODE 2021
FUEL GAS	INTERNATIONAL FUEL GAS CODE 2021
REHAB	REHABILITATION SUBCODE (NJAC 5:23-6)
BARRIER FREE	BARRIER FREE SUBCODE ICC A117.1 2017
ELEVATOR	ELEVATOR SUBCODE (NJAC 5:23-12; CHAPTER 35 OF IBC/2021 NJ ED)

ENERGY CONSERVATION CODE: ASHRAE STANDARD 90.1-2019
BUILDING ENVELOPE REQUIREMENTS
GLOUCESTER COUNTY, NJ IS IN CLIMATE ZONE 4A

	REQUIRED		PROPOSED
	NON-RESIDENTIAL		
OPAQUE ELEMENTS	ASSEMBLY MAX.	INSULATION MIN. R-VALUE	PROPOSED (EXISTING BUILDING)
ROOFS			
INSULATION ENTIRELY ABOVE DECK	U-0.032	R-30 c.i.	EXISTING TO REMAIN
METAL BUILDING	U-0.037	R-19 + R-11 Ls or R-25 + R-8 Ls	
ATTIC AND OTHER	U-0.021	R-49	
WALLS AND ABOVE GRADE			
MASS	U-0.104	R-9.5 c.i.	EXISTING TO REMAIN
METAL BUILDING	U-0.060	R-0 + R-15.8 c.i.	
STEEL-FRAMED	U-0.064	R-13+ R-7.5 c.i.	
WOOD FRAMED AND OTHER	U-0.064	R-13 + R-3.8 c.i. or R-20	
WALL, BELOW GRADE			
BELOW GRADE WALL	U-0.119	R-7.5 c.i.	EXISTING TO REMAIN
FLOORS			
MASS	U-0.057	R-14.6 c.i.	EXISTING TO REMAIN
STEEL JOIST	U-0.038	R-30	
WOOD FRAMED AND OTHER	U-0.033	R-30	
SLAB-ON-GRADE FLOORS			
UNHEATED	F-0.520	R-15 FOR 24 IN.	EXISTING TO REMAIN
HEATED	F-0.843	R-20 FOR 24 IN.	
OPAQUE DOORS			
SWINGING	U-0.370		EXISTING TO REMAIN
NONSWINGING	U-0.310		

DEFINITIONS:
c.i. = CONTINUOUS INSULATION PER SECTION 3.2
Ls = LINER SYSTEM PER SECTION A2.3.2.4

INTERNATIONAL BUILDING CODE, NEW JERSEY EDITION, 2018

CHAPTER 3: OCCUPANCY CLASSIFICATION AND USE

PROPOSED USE GROUPS

A-3 (ASSEMBLY)
B (BUSINESS)
S-1 (MODERATE-HAZARD STORAGE)
S-2 (LOW-HAZARD STORAGE)

FLOOR AREAS AND MAXIMUM DESIGN OCCUPANT LOADS

BASMENT

OCCUPANCY	ROOM NAME	SQ FT		IBC TABLE 1004.5	OCCUPANTS	NOTE
S-2	B01 PASSAGE	655		300	3	
S-2	B02 BOILER RM	2410		300	9	
S-2	B03 STORAGE	225		300	1	
S-2	B04 STORAGE	663		300	3	
S-2	B04B FIRE PUMP ROOM	134		300	1	
S-2	B05 CUSTODIAL SHOP	498		300	2	
S-2	B06 STORAGE	235		300	1	
S-2	B07 UNIVERSITY EVENTS STORAGE	770		300	3	
S-2	B08 PROCUREMENT AND FIANANCE STORAGE	612		300	3	
S-2	B13 STORAGE	829		300	3	
S-2	B14 STORAGE	169		300	1	
S-2	B17 CRAWL SPACE	1912		300	7	
	STAIR 2	238		300	1	
	STAIR 3	108		300	1	
	TOTAL S-2 AREA	9458			39	TOTAL S-2 OCCUPANTS
	TOTAL BASEMENT	9458				

FLOOR 1

OCCUPANCY	ROOM NAME	SQ FT		IBC TABLE 1004.5	OCCUPANTS	NOTE
B	100 COMMUNITY MUSIC	1175		15	49	LIMITED
B	100A OFFICE	150		150	1	
	100D TOILET ROOM	45		0	0	
	100E TOILET ROOM	45		0	0	
	104 MENS LAV	207		0	0	
B	105 AUDITORS SUITE	490		150	4	
B	105A OFFICE	104		150	1	
B	105B OFFICE	90		150	1	
B	105C OFFICE	94		150	1	
B	105D OFFICE	94		150	1	
B	106 UNIVERSITY EVENTS SUITE	485		150	4	
B	106A OFFICE	87		150	1	
B	106B OFFICE	129		150	1	
B	106C OFFICE	112		150	1	
B	106D OFFICE	108		150	1	
B	106E OFFICE	113		150	1	
B	106F OFFICE	125		150	1	
B	106G OFFICE	87		150	1	
B	107 SHARED KITCHEN	328		150	3	
B	108 LOBBY	475		150	4	
	108A TOILET ROOM	43		0	0	
	109 PASSAGE	128		0	0	
	109A TOILET ROOM	58		0	0	
B	110 PROCUREMENT SUITE	785		150	6	
B	110A CONFERENCE	104		150	1	
B	110B OFFICE	116		150	1	
B	110C OFFICE	161		150	2	
B	110D OFFICE	102		150	1	
B	111 CONFERENCE	617		150	5	
B	113 CONFERENCE	604		150	5	
	115 WOMENS LAV	194		0	0	
	A1 CORRIDOR	1798		0	0	
	B1 CORRIDOR	751		0	0	
	C1 CORRIDOR	925		0	0	
	C CORRIDOR	751		0	0	
	D1 CORRIDOR	1126		0	0	
	E CORRIDOR	550		0	0	
	STAIR 1	175		0	0	
	STAIR 2	175		0	0	
	STAIR 3	108		0	0	
	STAIR 4	370		0	0	
B	COURTYARD	3685		150	25	
	TOTAL B AREA	17696			122	TOTAL B OCCUPANTS
S-1	102 SCENE SHOP	3203	2560 NET	50	52	
	TOTAL S-1 AREA	3203			52	TOTAL S-1 OCCUPANTS
A-3	103 TRAINING ROOM	1244	1020 NET	20	51	
A-3	119 LRC UNOCCUPIED	3231		0	0	
A-3	119A ROOM UNOCCUPIED	179		0	0	
A-3	119B ROOM UNOCCUPIED	405		0	0	
A-3	119C ROOM UNOCCUPIED	179		0	0	
A-3	120 CLASSROOM UNOCCUPIED	1305		0	0	
A-3	121 CLASSROOM UNOCCUPIED	778		0	0	
A-3	121A ROOM UNOCCUPIED	114		0	0	
A-3	102A KITCHEN UNOCCUPIED	992		0	0	
A-3	102B UNOCCUPIED	93		0	0	
	TOAL A-3 AREA	1244			51	TOTAL A-3 OCCUPANTS
S-2	100B STORAGE	132		150	1	
S-2	100C UNIVERSITY EVENTS STORAGE	720		150	1	
S-2	104A JAN. CLO.	43		150	1	
S-2	109D COAT CLOSET	20		150	1	
S-2	115A STORAGE	36		150	1	
S-2	118 STORAGE	114		150	1	
S-2	123A STORAGE	254		150	2	
S-2	123B STORAGE	180		150	2	
S-2	101 MDF ROOM	113		150	1	
S-2	109B EMR	67		150	1	
S-2	109C ELEC ROOM	118		150	1	
S-2	116 IDF	77		150	1	
S-2	117 ELEC ROOM	120		150	1	
	TOTAL S-2 AREA	1994			15	TOTAL S-2 OCCUPANTS
UNOCCUPIED	123 GYMNASIUM	5219		0	0	
	122 LOCKER ROOM	630		0	0	
	122A TOILET ROOM	268		0	0	
UNOCCUPIED	122B ROOM	84		0	0	
	122C TOILET	46		0	0	
UNOCCUPIED	124 ROOM	84		0	0	
	124A TOILET	46		0	0	
	TOTAL 1ST FLOOR	30514				

FLOOR 2

OCCUPANCY	ROOM NAME	SQ FT		IBC TABLE 1004.5	OCCUPANTS	NOTE
B	200 ROOM	1097		150	8	
B	200A ROOM	355		150	3	
	200A WOMENS TOILET	297		0		
	200B MENS TOILET	305		0		
B	201 ROOM	1222		150	9	
B	202 ROOM	1228		150	9	
B	205 SHARED OFFICE	236		150	2	
B	206 AUDITORS SUITE	358		150	3	
B	206A OFFICE	96		150	1	
B	206B OFFICE	99		150	1	
B	207 ACCOUNTS PAYABLE SUITE	480		150	4	
B	207A OFFICE	105		150	1	
	207B MENS BATHROOM	193		0		
B	208 AUDITORS SUITE	408		150	3	
B	208A OFFICE	96		150	1	
B	208B OFFICE	90		150	1	
B	209 CONFERENCE	286		150	2	
B	209A MAIL/COPY/PRINT	324		150	3	
B	210 ACCOUNTS PAYABLE SUIT	413		150	3	
B	210A OFFICE	100		150	1	
B	210B OFFICE	103		150	1	
B	211 SUITE	529		150	4	
B	211A OFFICE	123		150	1	
B	212 BUDGET SUITE	413		150	3	
B	212A OFFICE	92		150	1	
B	212B OFFICE	94		150	1	
B	213 FINANCE SUITE	494		150	4	
B	213A FINANCE OFFICE	95		150	1	
	213B WOMENS BATHROOM	198		0		
B	214 FINANCE SUITE	507		150	4	
B	214A OFFICE	104		150	1	
	215 PASSAGE	126		0	0	
B	215A PHONE BOOTH	64		150	1	
B	216 SUITE	231		150	2	
B	217 FIANANCE CONFERENCE ROOM	362		150	3	
B	219 FUTURE WORKSTATIONS	644		150	5	
	A2 CORRIDOR	1898		0	0	
	B2 CORRIDOR	249		0	0	
	B2 CORRIDOR	166		0	0	
	D2 CORRIDOR	813		0	0	
	E2 CORRIDOR	564		0	0	
	STAIR 1	227		0		
	STAIR 2	227		0		
	STAIR 4	369		0		
	TOTAL B AREA	10848			87	TOTAL B OCCUPANTS
S-2	207C JANITOR CLOSET	28		300	1	
S-2	215C TOILET ROOM	56		300	1	
S-2	215D ELEC ROOM	82		300	1	
S-2	215B IDF ROOM	69		300	1	
	TOTAL S-2 AREA	235			4	TOTAL S-2 OCCUPANTS
	TOTAL 2ND FLOOR	11083				

FLOOR AREAS AND MAXIMUM DESIGN OCCUPANT LOADS

FLOOR 3

OCCUPANCY	ROOM NAME	SQ FT		IBC TABLE 1004.5	OCCUPANTS	NOTE
	300 MENS BATHROOM	192				
B	301 DESIGN & PLANNING SUITE	590		150	4	
B	301A OFFICE	122		150	1	
B	301B OFFICE	122		150	1	
B	301C CONFERENCE ROOM	150		150	1	
B	302 CONSTRUCTION SUITE	730		150	5	
B	302A OFFICE	140		150	1	
B	302B OFFICE	142		150	1	
B	302C OFFICE	140		150	1	
	303 PASSAGE	162		0	0	
B	303B SHARED CAFÉ	193		150	2	
B	304 CONFERENCE ROOM	589		150	4	
B	305 FACILITIES SUITES	745		150	5	
B	305A OFFICE	100		150	1	
B	305B OFFICE	133		150	1	
B	305C OFFICE	100		150	1	
B	305D OFFICE	100		150	1	
B	305E PLOTTER PRINT/WORK RM	148		150	1	
B	306 FACILITIES/ REAL ESTATE SUITE	310		150	3	
B	306A OFFICE	118		150	1	
B	306B OFFICE	125		150	1	
B	306C OFFICE	115		150	1	
B	306D OFFICE	115		150	1	
B	306E OFFICE	280		150	2	
B	306F OFFICE	87		150	1	
	307 WOMENS BATHROOM	198				
	A3 CORRIDOR	1611		0	0	
	STAIR 1	150				
	STAIR 2	150				
	TOTAL B AREA	5394			41	TOTAL B OCCUPANTS
S-2	300A JANITORS CLOSET	28		300	1	
S-2	300B JAN. STO.	75		300	1	
S-2	303A IDF	107		300	1	
S-2	303C ELECTRICAL	162		300	1	
S-2	308 STORAGE	75		300	1	
	TOTAL S-2 AREA	447			5	TOTAL S-2 OCCUPANTS
	TOTAL 3RD FLOOR	5841				

CHAPTER 4: SPECIAL DETAILED REQUIREMENTS BAED ON OCCUPANCY AND USE

THIS CHAPTER IS NOT APPLICABLE TO THE PROPOSED SCOPE OF WORK

CHAPTER 5: GENERAL BUILDING HEIGHTS AND AREAS

NONSEPARATED USE GROUPS

THE MAXIMUM ALLOWABLE HEIGHT AND AREA DETERMINED BY APPLYING THE MORE RESTRICTIVE OF THE HEIGHT AND AREA LIMITATIONS OF EACH GROUP, AS PER TABLES 504.3, 504.4 AND 506.2 OF THE BUILDING SUBCODE, TO THE ENTIRE BUILDING DOES NOT APPLY TO THIS PROJECT PER THE NJ REHAB CODE §5:23-6.31 CHANGE OF USE (e) TABLE E.

TABLE 509.1 INCIDENTAL USES
ROOMS WITH BOILERS WHERE THE LARGEST PIECE OF EQUIPMENT IS OVER 15 PSI AND 10 HORSEPOWER REQUIRES 1 HOUR SEPARATION OR PROVIDE AUTOMATIC SPRINKLER SYSTEM PROTECTION. SPRINKLERS WILL BE INSTALLED AT BOILER ROOM.

CHAPTER 6: TYPES OF CONSTRUCTION

FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (HOURS) TABLE 601

BUILDING ELEMENT	IBC TYPE 2B CONSTRUCTION
PRIMARY STRUCTURAL FRAME	0
BEARING WALLS EXTERIOR	0
BEARING WALLS INTERIOR	0
NONBEARING WALLS AND PARTITIONS EXTERIOR (WHERE FIRE SEPARATION DISTANCE > = 30'-0" AT THE NEAREST LOCATION TO THE PROPERTY LINE PER TABLE 602)	0
NONBEARING WALLS AND PARTITIONS INTERIOR	0
FLOOR CONSTRUCTION AND SECONDARY MEMBERS	0
ROOF CONSTRUCTION AND SECONDARY MEMBERS	0

CHAPTER 7: FIRE AND SMOKE PROTECTION FEATURES

707.3.10 FIRE AREAS
THE FIRE BARRIERS, FIRE WALLS, HORIZONTAL ASSEMBLIES OR COMBINATIONS THEREOF SEPARATING A SINGLE OCCUPANCY INTO DIFFERENT FIRE AREAS SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN THAT INDICATED IN TABLE 707.3.10. THE FIRE BARRIERS, FIRE WALLS, HORIZONTAL ASSEMBLIES OR COMBINATIONS THEREOF SEPARATING FIRE AREAS OF MIXED OCCUPANCIES SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN THE HIGHEST VALUE INDICATED IN TABLE 707.3.10 FOR THE OCCUPANCIES UNDER CONSIDERATION.

TABLE 707.3.10
FIRE-RESISTANCE-RATING REQUIREMENTS FOR FIRE BARRIERS, FIRE WALLS OR HORIZONTAL ASSEMBLIES BETWEEN FIRE AREAS

OCCUPANCY GROUP	FIRE-RESISTANCE RATING (HOURS)
H-1, H-2	4
F-1, H-3, S-1	3
A, B, E, F-2, H-4, H-5, I, M, R, S-2	2

REFER TO DISCUSSION UNDER REHAB CODE, §5:23-6.31 CHANGE OF USE

REFER TO TABLE F REQUIREMENTS FOR EXTERIOR WALL FIRE RESISTANCE RATING BUILDING USE GROUP OF NJ REHAB CODE 5:23-6.31

FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE (NJBC TABLE 705.5)

FIRE SEPARATION DISTANCE	TYPE OF CONSTRUCTION	FIRE RESISTANCE RATING (HOURS)
X < 5	2B	2 HR (GROUP S-1); 1 HR (GROUPS A, B, S-2)
5 ≤ X < 10	2B	1 HR (GROUPS A, B, S-1, S-2)
10 ≤ X < 30	2B	0 HR (GROUPS A, B, S-1, S-2)
X ≥ 30	2B	0 HR (GROUPS A, B, S-1, S-2)

FIRE RESISTANCE ASSEMBLIES:
THE TABLE SHOWN BELOW SUMMARIZES THE FIRE RESISTANCE RATINGS FOR VARIOUS WALL TYPES IN THE BUILDING AND THEIR OPENING PROTECTIVES FOR A BUILDING THAT IS NOT FULLY SPRINKLERED.

BUILDING ELEMENT	WALL TYPE	FIRE RESISTANCE RATING (HOURS)	OPENING PROTECTIVE RATING (MINUTES)
SHAFT ENCLOSURE	FIRE BARRIER	1 (NJBC 713.4)	60 (NJBC TABLE 716.1(2))
STAIR AND HOISTWAY ENCLOSURES	FIRE BARRIER	1 (NJBC 713.4)	60 (NJBC TABLE 716.1(2))

DOORS MUST BE SMOKE AND DRAFT CONTROL DOORS (2021 NJBC 716.2.1.4 AND 716.2.2.1.1).

SECTION 714.4 FIRE-RESISTANCE-RATED WALLS. PENETRATIONS INTO OR THROUGH FIRE WALLS, FIRE BARRIERS, SMOKE BARRIER WALLS AND FIRE PARTITIONS SHALL COMPLY WITH SECITON 714.4.1 THROUGH 714.4.3. PENETRATIONS IN SMOKE BARRIER WALLS SHALL ALSO COMPLY WITH SECTION 714.5.4.

SECTION 714.4.1 THROUGH PENETRATIONS. THROUGH PENETRATIONS OF FIRE-RESISITANCE-RATED WALLS SHALL COMPLY WITH SECTION 714.4.1.1 OR 714.4.1.2.

EXCEPTION: WHERE THE PENETRATING ITEMS ARE STEEL, FERROUS OR COPPER PIPES, TUBES OR CONDUITS, THE ANNULAR SPACE BETWEEN THE PENETRATING ITEM AND THE FIRE-RESISTANCE-RATED WALL IS PERMITTED TO BE PROTECTED BY EITHER OF THE FOLLOWING MEASURES:
1. IN CONCRETE OR MASONRY WALLS WHERE THE PENETRATING ITEM IS A MAXIMUM 6-INCH NOMINAL DIAMETER AND THE AREA OF THE OPENING THROUGH THTE WALL DOES NOT EXCEED 144 SQUARE INCHES, CONCRETE, GROUT OR MORTAR IS PERMITTED WHERE INSTALLED THE FULL THICKNESS OF THE WALL OR THE THICKNESS REQURIED TO MAINTAIN THE FIRE-RESISTANCE RATING.
2. THE MATERIAL USED TO FILL THE ANNULAR SPACE SHALL PREVENT THE PASSAGE OF FLAME AND HOT GASES SUFFICIENT TO IGNITE COTTON WASTE WHEN SUBJECTED TO ASTM E199 OR UL 263 TIME-TEMPERATURE FIRE CONDITIONS UNDER A MINUMUM POSTIVE PERESSURE DIFFERENTIAL OF 0.01 INCH OF WATER AT THE LOCATION OF THE PENETRATION FOR THE TIME PERIOD EQUIVALENT TO THE FIRE-RESISTANCE RATING OF THE CONSTRUCTION PENETRATED.

SECTION 714.4.1.1 FIRE-RESISTANCE-RATED ASSEMBLIES. THROUGH PENETRATIONS SHALL BE PROTECTED USING SYSTEMS INSTALLED AS TESTED IN THE APPROVED FIRE-RESISTANCE-RATED ASSEMBLY.

SECTION 714.4.1.2 THROUGH-PENETRATION FIRESTOP SYSTEM. THROUGH PENETRATIONS SHALL BE PROTECTED BY AN APPROVED PENETRATION FIRESTOP SYSTEM INSTALLED AS TESTED IN ASCCORDANCE WITH ASTM E814 OR UL 1479, WITH A MINIMUM POSIITVIE PRESSURE DIFFERENTIAL OF 0.01 INCH (2.49 Pa) OF WATER AND SHALL HAVE AN F RATING OF NOT LESS THAN THE REQURIED FIRE-RESIDTANCE RATING OF THE WALL PENETRATED.

SECTION 715.1 FIRE-RESISTANT JOINT SYSTEMS; GENERAL. JOINTS INSTALLED IN OR BETWEEN FIRE-RESISTANCE-RATED WALLS, FLOOR OR FLOOR/CEILING ASSEMBLIES AND ROOFS OR ROOF/CEILING ASSEMBLIES SHALL BE PROTECTED BY AN APPROVED FIRE-RESISTANT JOINT SYSTEM DESIGNED TO RESIST THE PASSAGE OF FIRE FOR A TIME PERIOD NOT LESS THAN THE REQUIRED FIRE-RESISTANCE RATING OF THE WALL, FLOOR OR ROOF IN OR BETWEEN WHIH THE SYSTEM IS INSTALLED. FIRE-RESISTNT JOINT SYSTEMS SHALL BE TESTED IN ACCORDANCE WITH SECTION 715.3 (FIRE TEST CRITERIA).

CHAPTER 8: INTERIOR FINISHES

SECTIONS 802 THROUGH 804.4.2 DOES NOT APPLY TO FLOOR FINISHES AND COVERINGS OF A TRADITIONAL TYPE, SUCH AS WOOD, VINYL, LINOLEUM OR TERRAZZO, AND RESILIENT FLOOR COVERING MATERIALS THAT ARE NOT COMPRISED OF FIBERS.

SECTION 803.1.2 INTERIOR WALL AND CEILING FINISH MATERIALS TESTED IN ACCORDANCE WITH ASTM E84 OR UL 723
CLASS A: FLAME SPREAD 0-25
CLASS B: FLAME SPREAD 26-75
CLASS C: FLAME SPREAD 76-200
ALL: (NEW) SMOKE DEVELOPED 0-450

INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY (FOR A NONSPRINKLERED BUILDING) IBC NJ TABLE 803.13

USE GROUP	INTERIOR EXIT STAIRWAYS AND RAMPS AND EXIT PASSAGEWAYS (SEE NOTE A BELOW)	CORRIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRWAYS AND RAMPS	ROOMS AND ENCLOSED SPACES (SEE NOTE B BELOW)
A-3	CLASS A	CLASS A	CLASS C
B	CLASS A	CLASS B	CLASS C
S	CLASS B	CLASS B	CLASS C

NOTES:

A. CLASS C INTERIOR FINISH MATERIALS SHALL BE PERMITTED FOR WAINSCOTTING OR PANELING OF NOT MORE THAN 1.000 SQUARE FEET OF APPLIED SURFACE AREA IN THE GRADE LOBBY WHERE APPLIED DIRECTLY TO A NONCOMBUSTIBLE BASE OR OVER FURRING STRIPS APPLIED TO A NONCOMBUSTIBLE BASE AND FIREBLOCKED AS REQUIRED BY SECTION 803.15.1

B. REQUIREMENTS FOR ROOMS AND ENCLOSED SPACES SHALL BE BASED ON SPACES ENCLOSED BY PARTITIONS. WHERE A FIRE-RESISTANCE RATING IS REQUIRED FOR STRUCTURAL ELEMENTS, THE ENCLOSING PARTITIONS SHALL EXTEND FROM THE FLOOR TO THE CEILING. PARTITIONS THAT DO NOT COMPLY WITH THIS SHALL BE CONSIDERED TO BE ENCLOSING SPACES AND THE ROOMS OR SPACES ON BOTH SIDES SHALL BE CONSIDERED TO BE ONE ROOM OR SPACE. IN DETERMINING THE APPLICABLE REQUIREMENTS FOR ROOMS AND ENCLOSED SPACES, THE SPECIFIC OCCUPANCY THEREOF SHALL BE THE GOVERNING FACTOR REGARDLESS OF THE GROUP CLASSIFICATION OF THE BUILDING OR STRUCTURE.

SECTION 804.2. MINIMUM CRITICAL RADIANT FLUX.
CLASS I: CRITICAL RADIANT FLUX NOT LESS THAN 0.45 W/CM
CLASS II: CRITICAL RADIANT FLUX NOT LESS THAN 0.22W/CM OR GREATER.

SECTION 804.4.1 TEST REQUIREMENT: INTERIOR FLOOR COVERING MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE DOC F-1 "PILL TEST" (CPSC 16 CRF PART 1630) OR WITH ASTM D2859)

SECTION 804.4.2 MINIMUM CRITICAL RADIANT FLUX: IN ALL OCCUPANCIES, INTERIOR FLOOR FINISH AND FLOOR COVERING MATERIALS IN ENCLOSURES FOR STAIRWAYS AND RAMPS, EXIT PASSAGEWAYS, CORRIDORS AND ROOMS OR SPACES NOT SEPARATED FROM CORRIDORS BY PARTITIONS EXTENDING FROM THE FLOOR TO THE UNDERSIDE OF THE CEILING SHALL WITHSTAND A MINIMUM CRITICAL RADIANT FLUX NOT LESS THAN CLASS II IN GROUPS A, B, AND S.

EXCEPTION: WHERE A BUILDING IS EQUIPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECITON 903.3.1.1, CLASS II MATERIALS ARE PERMITTED IN ANY AREA WHERE CLASS I MATERIALS ARE REQUIRED, AND MATERIALS COMPLYING WITH DOC FF-1 "PILL TEST" (CPSC 16 CFR PART 1630) OR WITH ASTM D2859 ARE PERMITTED IN ANY AREA WHERE CLASS II MATERIALS ARE REQUIRED.

REFER TO REHAB NOTES FROM 5:23-6.11 (c)

CHAPTER 9: FIRE PROTECTION AND LIFE SAFETY SYSTEMS

ALTHOUGH THE BUILDING IS NOT FULLY SPRINKLERED,
ALL OCCUPIED SPACES ARE TO HAVE AN AUTOMATIC SPRINKLER SYSTEM.
REFER TO REHAB CODE 5.23-6.31 (e) THAT SAYS AUTOMATIC
SPRINKLERS ARE NOT REQUIRED EXCEPT WITHIN THE S-1 USE FIRE AREA

SECTION 903.2.1.3 GROUP A-3: AN AUTOMATIC SPRINKLER SYSTEM SHALL BE PROVIDED THROUGOUUT STORIES CONTAINING GROUP A-3 OCCUPANCIES AND THROUGHOUT ALL STORIES FROM THE GROUP A-3 OCCUPANCY TO AND INCLUDING THE LEVELS OF EXIT DISCHARGE SERVING THAT OCCUPANCY WHERE ON OF THE FOLLOWING CONDITIONS EXISTS:
1. THE FIRE AREA EXCEEDS 12,000 SQUARE FEET.
2. THE FIRE AREA HAS AN OCCUPANT LOAD OF 300 OR MORE.
3. THE FIRE AREA IS LOCATED ON A FLOOR OTHER THAN A LEVEL OF EXIT DISCHARGE SERVING SUCH OCCUPANCIES.

SECTION 903.4.2 ALARMS. AN APPROVED AUDIBLE DEVICE, LOCATED ON THE EXTERIOR OF THE BUILDING IN AN APPROVED LOCATION, SHALL BE CONNECTED TO EACH AUTOMATIC SPRINKLER SYSTEM. SUCH SPRINKLER WATERFLOW ALARM DEVICES SHALL BE ACTIVATED BY WATER FLOW EQUIVALENT TO THE FLOW OF A SINGLE SPRINKLER OF THE SMALLEST ORIFICE SIZE INSTALLED IN THE SYSTEM. WHERE A FIRE ALARM SYSTEM IS INSTALLED, ACTUATION OF THE AUTOMATIC SPRINKLER SYSTEM SHALL ACTUATE THE BUILDING FIRE ALARM SYSTEM.

SECTION 905 STANDPIPE SYSTEMS. THE BUILDIG SHALL BE PROVIDED WITH STANDPIPES IN ACCORDANCE WITH NFPA 14. THE STANDPIPES MAY ALSO SERVE AS THE WATER SUPPLY FOR THE SPRINKLER SYSTEM.

SECTION 906 PORTABLE FIRE EXTINGUISHERS. PORTABLE FIRE EXTINGUISHERS ARE REQUIRED. ONE 2-A RATED EXTINGUISHER WITH A MAXIMUM FLOOR AREA PER UNIT OF "A" TO BE 3000 SF. MAXIMUM FLOOR AREA EXTINGUISHER TO BE 11,250 SF. MAXIMUM TRAVEL DISTANCE TO EXTINGUISHER TO BE 75'-0". REFER TO THE FLOOR PLANS FOR THE LOCATION OF THE EXTINGUISHERS. MAINTAIN ADA CLEARANCES (MAXIMUM 4" PROJECTION WHEN ON A WALL THAT IS OVER 27" ABOVE THE FINISHED FLOOR PER ANSI A117.1-2017 307). MAINTAIN THE FIRE RATING OF RATED WALLS WITH FIRE RATED CABINETS.

SECTION 907 FIRE ALARM AND DETECTION SYSTEMS.
SECTION 907.2.1 GROUP A:
A MANUAL FIRE ALARM SYSTEM THAT ACTIVATES THE OCCUPANT NOTIFICATION SYSTEM IN ACCORDANCE WITH SECTION 907.5 SHALL BE INSTALLED IN GROUP A OCCUPANCIES WHERE THE OCCUPANT LOAD DUE TO THE ASSEMBLY OCCUPANCY IS 300 OR MORE, OR WHERE THE GROUP A OCCUPANT LOAD IS MORE THAN 100 PERSONS ABOVE OR BELOW THE LOWEST LEVEL OF EXIT DISCHARGE. GROUP A OCCUPANCIES NOT SEPARATED FROM ONE ANOTHER IN ACCORDANCE WITH SECTION 707.3.10 SHALL BE CONSIDERED AS A SINGLE OCCUPANCY FOR THE PURPOSES OF APPLYING THIS SECTION.

SECTION 907.2.2 GROUP B:
A MANUAL FIRE ALARM SYSTEM, WHICH ACTIVATES THE OCCUPANT NOTIFICATION SYSTEM IN ACCORDANCE WITH SECTION 907.5, SHALL BE INSTALLED IN GROUP B OCCUPANCIES WHERE ONE OF THE FOLLOWING CONDITIONS EXISTS:
1. THE COMBINED GROUP B OCCUPANT LOAD OF ALL FLOORS IS 500 OR MORE.
2. THE GROUP B OCCUPANT LOAD IS MORE THAN 100 PERSONS ABOVE OR BELOW THE LOWEST LEVEL OF EXIT DISCHARGE.

CHAPTER 10: MEANS OF EGRESS

MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT TABLE 1004.5

FUNCTION OF SPACE	OCCUPANT LOAD FACTOR
ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300 GROSS S.F.
ASSEMBLY UNCONCENTRATED (TABLES AND CHAIRS)	15 NET S.F.
BUSINESS AREAS	150 GROSS S.F.
EDUCATIONAL: SHOPS AND OTHER VOCATIONAL ROOM AREAS	50 NET S.F.

REFER TO TABLE 1 OF NJ REHAB CODE 5:23-6.10
THE REHAB CODE FOR THE CAPACITY PER UNIT EGRESS WIDTH
SECTION 1005 MEANS OF EGRESS SIZING

FROM IBC NJ ED:
SECTION 1005.3.1 STAIRWAYS
0.3 INCH PER OCC

SECTION 1005.3.2 OTHER EGRESS COMPONENTS
SIZING FOR OTHER SUCH AS DOORS, CORRIDORS
IS 0.2 INCH PER OCC
CLEAR DOOR WIDTH FOR A NOMINAL 36" DOOR IS 33"
33" WIDTH / .2 INCH PER OCC = 165 OCCUPANTS (150 OCC PER REHAB CODE)
CLEAR DOOR WIDTH FOR A NOMINAL 72" DOOR IS 68"
68" WIDTH / .2 INCH PER OCC = 340 OCCUPANTS (309 OCC PER REHAB CODE)

SECTION 1005.7.1 ENCROACHMENT DOORS. DOORS, WHEN FULLY OPENED, SHALL NOT REDUCE THE REQUIRED WIDTH BY MORE THAN 7 INCHES. DOORS IN ANY POSITION SHALL NOT REDUCE THE REQUIRED WIDTH BY MORE THAN ONE-HALF.

SPACERS WITH ON EXIT OR EXIT ACCESS DOORWAY TABLE 1006.2.1

USE GROUP	MAXIMUM OCCUPANT LOAD OF SPACE	MAXIMUM EXIT ACCESS TRAVEL DISTANCE (FEET) — WITHOUT SPRINKLER SYSTEM (FEET) — OCCUPANT LOAD: OL LESS THAN OR EQUAL 30	OL GREATER THAN 30
A-3	49	75	75
B	49	100	75
S	29	100	75

SECTION 1007.1.1 TWO EXITS OR EXIT ACCESS DOORWAYS. EACH FLOOR MUST MEET THE EXIT REMOTENESS REQUIREMENT OF ONE HALF OF THE DIAGONAL MEASUREMENT OF THE SPACE.

SECTION 1009.1 ACCESSIBLE MEANS OF EGRESS. MINIMUM OF ONE IS REQUIRED. (THIS BUILDING HAS ONE ELEVATOR ACCESSIBLE FROM THE ELEVATOR LOBBY.

SECTION 1009.3.3 AREA OF REFUGE.
THE EXISTING BUILDING DOES NOT HAVE AN AREA OF REFUGE AS AN EXISTING BUILDING CONDITION. IT WILL REMAIN IN THIS STATE PER REHAB CODE 5:23-6.2 (f) "PRE-EXISTING BUILDINGS."

SECTION 1009.6.1 TRAVEL DISTANCE. TO COMPLY WITH SECTION 1017.1 (TABLE 1017.2 SHOWS THAT MAXIMUM EXIT ACCESS TRAVEL DISTANCE WITHOUT A SPRINKLER SYSTEM FOR THE A, B, S-1 USES IN THIS BUILDING IS 200 FT. MORE RESTRICTIVE THAN THE S-2 USE THAT ALLOWS AN ACCESS TRAVEL DISTANCE OF 300 FT. (REFER TO THE REHAB CODE)

SECTION 1009.10 DIRECTIONAL SIGNAGE. DIRECTIONAL SIGNAGE INDICATING THE LOCATION OF ALL OTHER MEANS OF EGRESS AND WHICH OF THOSE ARE ACCESSIBLE MEANS OF EGRESS SHALL BE PROVIDED AT THE FOLLOWING:
1. AT EXIT SERVING A REQUIRED ACCESSIBLE SPACE BUT NOT PROVIDING AN APPROVED ACCESSIBLE MEANS OF EGRESS.
2. AT ELEVATOR LANDINGS.

SECTION 1010.1.2.1 DOOR SWING. ALL EXIT DOORS SERVING MORE THAN 50 OCCUPANTS MUST SWING IN THE DIRECTION OF EGRESS TRAVEL.

TABLE 1017.2 MAXIMUM EXIT ACCESS TRAVEL DISTANCE
GROUPS B, A-3 AND S-1, 200 FEET;
GROUP S-2, 300 FEET.

TABLE 1020.3 MINIMUM CORRIDOR WIDTH
ACCESS TO AND UTILIZATION OF MECHANICAL, PLUMBING OR ELECTRICAL SYSTEMS OR EQUIPMENT = 24" WIDE
WITH AN OCCUPANT LOAD OF LESS THAN 50 = 36" WIDE
ALL OTHER FACILITY NOT MENTIONED ABOVE = 44" WIDE.

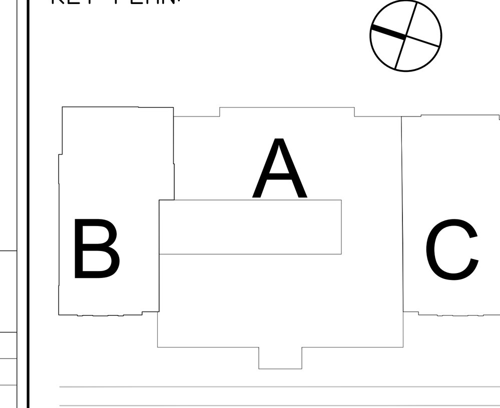
SECTION 1020.5 DEAD ENDS. (REFER TO THE REHAB CODE)

SECTION 1023 INTERIOR EXIT STAIRWAYS AND RAMPS.
SECTION 1023.2 CONSTRUCTION. ANY STAIRWAYS SERVING LESS THAN 4 STORIES MUST BE ENCLOSED IN A 1 HOUR RATED FIRE BARRIER.

CHAPTER 30: ELEVATORS AND CONVEYING SYSTEMS

EXISTING ELEVATOR TO REMAIN

KEY PLAN



No.	Date	Description
	12/08/25	OUT TO BID
	12/03/25	DCA Submission

Revisions / Issues

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DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
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Sheet No:
CS-002a
Sheet 0 of 000

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P:\2025\25-024 ROWAN GIS ROUND 5\DRAWINGS\CONDOCS\A000S GENERAL -COVER SCHEDULES PHASING ECT\

2021 NATIONAL STANDARD PLUMBING CODE

A. SEPARATE TOILET FACILITIES SHALL BE PROVIDED FOR EACH SEX
EXCEPTIONS:

(1) IN OCCUPANCIES SERVING 15 OR FEWER PEOPLE, ONE TOILET FACILITY, DESIGNED FOR USE BY NO MORE THAN ONE PERSON AT A TIME SHALL BE PERMITTED FOR USE BY BOTH SEXES.

(2) IN BUSINESS OCCUPANCIES WITH A TOTAL FLOOR AREA OF 1,500 SQUARE FEET OR LESS, ONE TOILET FACILITY, DESIGNED FOR USE BY NO MORE THAN ONE PERSON AT A TIME, SHALL SATISFY THE REQUIREMENTS FOR SERVING CUSTOMERS AND EMPLOYEES OF BOTH SEXES.

MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES

PLUMBING FIXTURE CALCULATIONS
PLUMBING CODE 2021 (NEW JERSEY EDITION)

POPULATION	CALCULATED OCCUPANCY BY GROUP	MALE/ FEMALE OCCUPANTS	W.C. REQUIRED		W.C. REQUIRED	W.C. PROVIDED	LAV. REQUIRED		LAV. REQUIRED	LAV. PROVIDED
BASMENT										
S-2 POPULATION	39 X .67 = 28	14 MALE	1 PER 50, THEN ADD 1 FOR 51-100		1	0	1 PER 100		1	0
		14 FEMALE			1	0			1	0
LEVEL 1										
A-3 POPULATION	52	26 MALE	1 PER 50, THEN ADD 1 FOR 51-100, ADD 1 FOR 101-200, ADD 2 FOR EA. ADD'L 200 OVER 200		1	1	1 PER 50, THEN ADD 1 FOR 51-100, ADD 1 FOR 101-200, ADD 2 FOR EA. ADD'L 200 OVER 200		1	1
		26 FEMALE			1	1			1	1
B POPULATION	122 X .67 = 82	41 MALE	1 PER 1-15, THEN ADD 1 PER 16-50, THEN ADD 1 FOR EACH ADDL. 50 OVER 50		2	5	1 PER 1-15, THEN ADD 0 PER 16-50, THEN ADD 1 FOR EACH ADDL. 50 OVER 50		1	2
		41 FEMALE			2	4			1	2
S-1 POPULATION	52 X .67 = 36	18 MALE	1 PER 50, THEN ADD 1 FOR 51-100		1	1	1 PER 100		1	1
		18 FEMALE			1	1			1	1
S-2 POPULATION	15 X .67 = 12	6 MALE	1 PER 50, THEN ADD 1 FOR 51-100		1	0	1 PER 100		1	0
		6 FEMALE			1	0			1	0
LEVEL 2										
B POPULATION	87 X .67 = 60	30 MALE	1 PER 1-15, THEN ADD 1 PER 16-50, THEN ADD 1 FOR EACH ADDL. 50 OVER 50		2	9	1 PER 1-15, THEN ADD 0 PER 16-50, THEN ADD 1 FOR EACH ADDL. 50 OVER 50		2	5
		30 FEMALE			2	7			2	6
S-2 POPULATION	4 X .67 = 4	2 MALE	1 PER 50, THEN ADD 1 FOR 51-100		1	1	1 PER 100		1	1
		2 FEMALE			1	1			1	1
						18				13
LEVEL 3										
B POPULATION	41 X .67 = 28	14 MALE	1 PER 1-15, THEN ADD 1 PER 16-50, THEN ADD 1 FOR EACH ADDL. 50 OVER 50		1	4	1 PER 1-15, THEN ADD 0 PER 16-50, THEN ADD 1 FOR EACH ADDL. 50 OVER 50		1	1
		14 FEMALE			1	4			1	1
S-2 POPULATION	5 X .67 = 4	2 MALE	1 PER 50, THEN ADD 1 FOR 51-100		1	1	1 PER 100		1	1
		2 FEMALE			1	1			1	1
				TOTAL:	22	59			20	38

NOTE:
1. KITCHEN PANTRYS WITH BOTTLED WATER WILL BE PROVIDED ON EACH FLOOR
2. ONE SERVICE SINK WILL BE PROVIDED ON EACH FLOOR
3. UNOCCUPIED BATHROOMS ARE ON THE FIRST FLOOR ARE NOT INCLUDED IN THIS CALCULATION

NEW JERSEY UCC REHABILITATION SUBCODE (NJAC 5:23–6)

§5:23–6.10 BASIC REQUIREMENTS AND SUPPLEMENTAL REQUIREMENTS––GENERAL
(a) THE BASIC REQUIREMENTS, SET FORTH IN N.J.A.C. 5:23–6.11 FOR ALL GROUPS AND FOR INDIVIDUAL GROUPS IN N.J.A.C. 5:23–6.12 THROUGH 6.28, SHALL BE MET WITHIN OR WITH REGARD TO THE WORK AREA IN ALL RECONSTRUCTION PROJECTS. (THESE REQUIREMENTS ARE IN ADDITION TO THE REQUIREMENTS CONTAINED IN N.J.A.C. 5:23–6.8, MATERIALS AND METHODS.)
(b) THE SUPPLEMENTAL REQUIREMENTS, SET FORTH IN N.J.A.C. 5:23–6.11A FOR ALL GROUPS AND FOR INDIVIDUAL GROUPS IN N.J.A.C. 5:23–6.12A THROUGH 6.28A, SHALL BE MET IN ALL BUILDINGS WHERE THERE ARE RECONSTRUCTION PROJECTS THAT MEET OR EXCEED THE STATED THRESHOLD FOR EACH REQUIREMENT.
1. ALL RECONSTRUCTION WORK BEGUN WITHIN A SINGLE 12 MONTH PERIOD SHALL BE CONSIDERED FOR DETERMINING THE APPLICABILITY OF THE SUPPLEMENTAL REQUIREMENT.
2. IF A PROJECT FALLS UNDER THE THRESHOLD FOR A SUPPLEMENTAL REQUIREMENT BY A DE MINIMIS AMOUNT, THE CONSTRUCTION OFFICIAL MAY REQUIRE THAT THE SUPPLEMENTAL REQUIREMENT BE MET.
(c) RECONSTRUCTION PROJECTS CONTAINED IN MIXED USE BUILDINGS SHALL COMPLY WITH THE REQUIREMENTS OF N.J.A.C. 5:23–6.29 AS APPLICABLE.
(d) SPECIAL TECHNICAL SPECIFICATIONS FOR WINDOWLESS STORIES, THE SUPERVISION OF AUTOMATIC SPRINKLER SYSTEMS, AUTOMATIC SPRINKLER SYSTEM RISERS, ACCEPTANCES OF EXISTING ALARM AND AUTOMATIC SPRINKLER SYSTEMS, SMOKE BARRIERS, ELEVATORS AND SPECIFIC OCCUPANCY AREAS ARE ESTABLISHED IN N.J.A.C. 5:23–6.30. THE WINDOWLESS STORY, SUPERVISION OF AUTOMATIC SPRINKLER SYSTEMS AND SMOKE BARRIER SPECIAL TECHNICAL REQUIREMENTS SHALL APPLY ONLY IN THOSE USES WHERE SPECIFIED BY THIS SUBCODE.

§5:23–6.11 BASIC REQUIREMENTS IN ALL GROUPS
(a) THIS SECTION SHALL APPLY WITHIN THE WORK AREA FOR ALL RECONSTRUCTION PROJECTS.
(b) CAPACITY OF MEANS OF EGRESS: THE CAPACITY OF THE MEANS OF EGRESS IN EACH WORK AREA SHALL BE SUFFICIENT FOR THE MAXIMUM PERMITTED OCCUPANT LOAD OF THE WORK AREA AND ANY ADJACENT SPACES SERVED BY THAT MEANS OF EGRESS AS CALCULATED ON A PER FLOOR BASIS. MEANS OF EGRESS SHALL BE MEASURED IN UNITS OF EXIT WIDTH OF 22 INCHES.
1. THE MAXIMUM PERMITTED OCCUPANT LOAD OF A SPACE SHALL BE DETERMINED BY THE CAPACITY OF THE MEANS OF EGRESS SERVING THE SPACE AS CALCULATED IN ACCORDANCE WITH TABLE 1. BUILDING OWNERS SHALL HAVE THE OPTION OF ESTABLISHING A REASONABLE RESTRICTION ON THE OCCUPANT LOAD OF THE SPACE BASED ON THE EXISTING CAPACITY OF THE MEANS OF EGRESS OR OF PROVIDING ADDITIONAL EGRESS CAPACITY. (PLAN REVIEW––BUILDING, FIRE. INSPECTION––BUILDING)
i. EXCEPTION: FOR NIGHTCLUBS, THE OCCUPANT LOAD OF THE SPACE SHALL BE DETERMINED IN ACCORDANCE WITH THE BUILDING SUBCODE. THE OCCUPANT LOAD FOR DANCE FLOORS SHALL BE CALCULATED AT SEVEN SQUARE FEET OF FLOOR AREA PER OCCUPANT. (PLAN REVIEW––BUILDING, FIRE. INSPECTION––BUILDING)

TABLE 1 CAPACITY PER UNIT EGRESS WIDTH

WITHOUT AUTOMATIC SPRINKLER A SYSTEM

NUMBER OF OCCUPANTS

GROUP	STAIRWAYS	DOORS, RAMPS AND CORRIDORS
A	75	100
B	60	100
F	60	100
S	60	100

NOTE: THE OCCUPANT LOAD MAY BE EQUAL TO THE TOTAL NUMBER OF OCCUPANTS FOR WHICH EXIT CAPACITY IS PROVIDED AS DETERMINED BY TABLE 1 ABOVE. FOR GROUP A OCCUPANCIES, THE RESULTING TOTAL OCCUPANT LOAD SHALL NOT EXCEED ONE OCCUPANT PER FIVE SQUARE FEET OF NET FLOOR AREA OVER THE ENTIRE USE.

INTERPOLATION SHALL BE ALLOWED IN DETERMINING CAPACITY OF EGRESS WIDTH.

UNIT OF EGRESS WIDTH = 22 INCHES

DESCRIPTION:
DOORS, RAMPS AND CORRIDOR CALCULATIONS:

CLEAR DOOR WIDTH FOR A NOMINAL 36" DOOR IS 33"
33" WIDTH / 22" PER OCCUPANT X 100 = 150 OCCUPANTS
CLEAR DOOR WIDTH FOR A NOMINAL 72" DOOR IS 68"
68" WIDTH / 22" PER OCCUPANT X 100 = 309 OCCUPANTS

(c) INTERIOR FINISHES: INTERIOR FINISHES WITHIN WORK AREAS SHALL COMPLY WITH THE FOLLOWING:
1. EXISTING INTERIOR FINISHES OF WALLS AND CEILINGS SHALL HAVE A FLAME SPREAD RATING NOT GREATER THAN THE CLASS PRESCRIBED BY TABLE 2 BELOW. ALL EXISTING INTERIOR FINISH MATERIALS WHICH DO NOT COMPLY WITH THE REQUIREMENTS OF THIS SECTION SHALL BE REMOVED OR SHALL BE TREATED WITH AN APPROVED FIRE RETARDANT COATING IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS TO SECURE COMPLIANCE WITH THE REQUIREMENTS OF THIS SECTION. EXCEPTIONS ARE ALLOWED AS FOLLOWS:
i. THE USE OF VINYL OR PAPER WALL COVERINGS NOT EXCEEDING 1/28TH OF AN INCH IN THICKNESS WHICH IS APPLIED DIRECTLY TO A NONCOMBUSTIBLE OR FIRE RETARDANT TREATED WOOD SUBSTRATE SHALL NOT BE REGULATED BY THIS SECTION.
ii. INTERIOR TRIM WHICH DOES NOT EXCEED 10 PERCENT OF THE AGGREGATE WALL AND CEILING AREA OF ANY ROOM OR SPACE SHALL NOT BE REGULATED BY THIS SECTION.
iii. WHEN AN APPROVED AUTOMATIC SPRINKLER SYSTEM IS PROVIDED, INTERIOR FINISH OF CLASS II OR CLASS III MATERIALS SHALL BE PERMITTED WHERE CLASS I OR CLASS II MATERIALS, RESPECTIVELY, ARE REQUIRED BY THIS SECTION.
EXPOSED PORTIONS OF STRUCTURAL MEMBERS COMPLYING WITH THE REQUIREMENTS FOR HEAVY TIMBER CONSTRUCTION IN ACCORDANCE WITH THE UNIFORM CONSTRUCTION CODE SHALL NOT BE REGULATED BY THIS SECTION. (PLAN REVIEW––BUILDING, FIRE. I NSPECTION––BUILDING)

TABLE 2 EXISTING INTERIOR FINISH REQUIREMENTS

GROUP	EXIT ENCLOSURES	EXIT ACCESS ENCLOSURES	ROOMS OR SPACES
A, E, I, R–1	I	II	III
ALL OTHER GROUPS	I	II	NO MINIMUM

THE CLASSIFICATION OF INTERIOR FINISHES REFERRED TO HEREIN CORRESPONDS TO FLAME SPREAD RATINGS DETERMINED BY ASTM E84 AS FOLLOWS: CLASS I FLAME SPREAD, 0–25; CLASS II FLAME SPREAD, 26–75; CLASS III FLAME SPREAD, 76–200. IN ALL CASES, THE SMOKE DEVELOPED RATING DETERMINED BY ASTM E84 SHALL NOT EXCEED 450.

§5:23–6.11A SUPPLEMENTAL REQUIREMENTS IN ALL GROUPS

(a) THIS SECTION SHALL APPLY TO ALL RECONSTRUCTION PROJECTS.
(b) VERTICAL OPENING PROTECTION: FOR PURPOSES OF APPLYING THE SUPPLEMENTAL REQUIREMENT FOR VERTICAL OPENING PROTECTION BELOW, A LOW HAZARD OCCUPANCY IS AN OCCUPANCY HAVING CONTENTS OF SUCH LOW COMBUSTIBILITY THAT NO SELF–PROPAGATING FIRE CAN OCCUR THEREIN. A MODERATE HAZARD OCCUPANCY IS AN OCCUPANCY HAVING CONTENTS THAT ARE LIKELY TO BURN WITH MODERATE RAPIDITY OR TO GIVE OFF A CONSIDERABLE VOLUME OF SMOKE. (PLAN REVIEW––BUILDING, FIRE. INSPECTION–BUILDING)
(c) WINDOWLESS STORIES: ANY WINDOWLESS BASEMENT OR STORY LOCATED BELOW THE SEVENTH STORY WHICH IS CREATED BY THE WORK BEING PERFORMED OR ANY EXISTING WINDOWLESS BASEMENT OR STORY BELOW THE SEVENTH STORY IN WHICH THE WORK AREA EXCEEDS 50 PERCENT OF THE GROSS ENCLOSED FLOOR AREA OF THE WINDOWLESS STORY, SHALL COMPLY WITH THE REQUIREMENTS LISTED IN N.J.A.C. 5:23–6.30. (FIRE)

§5:23–6.14 BASIC REQUIREMENTS––GROUPS A–2 OTHER THAN NIGHTCLUBS, A–3 AND A–4
(a) AUTOMATIC SPRINKLER SYSTEM: AN AUTOMATIC SPRINKLER SYSTEM SHALL BE REQUIRED IN SPACES OF GROUP A–3 USED AS BALLROOMS, EXHIBIT AREAS AND ACCESSORY SPACES WHICH EXCEED 12,000 SQUARE FEET AND ARE LOCATED IN BUILDINGS OF GROUP R–1 AND R–2.

1. EXCEPTIONS:
i. AN AUTOMATIC SPRINKLER SYSTEM SHALL NOT BE REQUIRED IF THE SPACE IS DIVIDED INTO FIRE AREAS OF NOT MORE THAN 12,000 SQUARE FEET BY A TWO–HOUR FIRE SEPARATION WITH 11/2–HOUR OPENING PROTECTIVES OR IF THE SPACE IS COMPLETELY SEPARATED FROM ANY OTHER USES BY A TWO–HOUR FIRE SEPARATION WITH 11/2–HOUR OPENING PROTECTIVES. (FIRE)
(b) EXITS: TWO EXITS SHALL BE REQUIRED FOR STORIES WITH LESS THAN 500 OCCUPANTS. THREE EXITS SHALL BE REQUIRED FOR STORIES WITH 501 TO 1,000 OCCUPANTS. FOUR EXITS SHALL BE REQUIRED FOR STORIES WITH MORE THAN 1,000 OCCUPANTS. TWO MEANS OF EGRESS ARE ALSO REQUIRED FROM ALL MEZZANINES WITH AN OCCUPANT LOAD GREATER THAN 50 OR WITH EXIT TRAVEL DISTANCE GREATER THAN 75 FEET.

1. WHEN MORE THAN ONE EXIT IS REQUIRED, EXISTING FIRE ESCAPES SHALL BE ACCEPTED AS PROVIDING ONE OF THE REQUIRED MEANS OF EGRESS UNLESS JUDGED TO BE DANGEROUS FOR USE UNDER EMERGENCY EXITING CONDITIONS. FOR USE OF FIRE ESCAPES, ACCESS SHALL BE THROUGH A DOOR EXCEPT WHEN SERVING AN OCCUPANT LOAD OF 10 OR FEWER. ALL OCCUPANTS SHALL HAVE UNOBSTRUCTED ACCESS TO FIRE ESCAPES WITHOUT HAVING TO PASS THROUGH A ROOM SUBJECT TO LOCKING.

i. WHEN MORE THAN ONE EXIT IS REQUIRED AND THERE IS NOT SUFFICIENT SPACE FOR AN EXTERIOR STAIR WITHIN THE LOT LINE, A NEW FIRE ESCAPE SHALL BE ACCEPTED AS PROVIDING ONE OF THE REQUIRED MEANS OF EGRESS. NEWLY–INSTALLED FIRE ESCAPES SHALL COMPLY WITH FTO–3.
ii. LADDERS SHALL BE PROHIBITED ON FIRE ESCAPES USED AS A REQUIRED MEANS OF EGRESS.

2. A SINGLE EXIT IS PERMITTED IN THE STORY AT THE LEVEL OF EXIT DISCHARGE WHEN THE OCCUPANT LOAD OF THE STORY DOES NOT EXCEED 50 AND THE EXIT ACCESS TRAVEL DISTANCE DOES NOT EXCEED 75 FEET. (PLAN REVIEW––BUILDING, FIRE. INSPECTION––BUILDING)
(c) EGRESS DOORWAYS: A MINIMUM OF TWO EGRESS DOORWAYS SHALL BE REQUIRED FOR ALL ROOMS AND SPACES WITH AN OCCUPANT LOAD GREATER THAN 50 OR IN WHICH THE TRAVEL DISTANCE EXCEEDS 75 FEET. ALL EGRESS DOORS SERVING AN OCCUPANT LOAD GREATER THAN 50 SHALL SWING IN THE DIRECTION OF EXIT TRAVEL.

1. EXCEPTION: STORAGE ROOMS WITH A MAXIMUM OCCUPANT LOAD OF 10 SHALL NOT BE REQUIRED TO HAVE TWO EGRESS DOORWAYS.
2. ALL REQUIRED EXIT DOORS EQUIPPED WITH LATCHING DEVICES IN BUILDINGS OR SPACES WITH AN OCCUPANT LOAD GREATER THAN 100 SHALL BE EQUIPPED WITH APPROVED PANIC HARDWARE.
3. IF THERE ARE MORE THAN TWO INDIVIDUAL ROOMS WHICH CAN BE USED FOR SEPARATE FUNCTIONS, EACH WITH AN OCCUPANT LOAD OF MORE THAN 300, THE REQUIRED EGRESS DOORS FROM SUCH ROOMS SHALL LEAD DIRECTLY OUTSIDE OR TO AN EXIT PASSAGEWAY. EXIT PASSAGEWAYS SHALL BE COMPLETELY ENCLOSED BY ASSEMBLIES HAVING A FIRERESISTANCE RATING OF AT LEAST TWO HOURS, SHALL LEAD DIRECTLY OUTSIDE AND SHALL NOT BE USED FOR ANY OTHER PURPOSE. (PLAN REVIEW––BUILDING, FIRE. INSPECTION––BUILDING)
(d) CAPACITY OF MEANS OF EGRESS: THE CAPACITY OF THE MEANS OF EGRESS IN EACH WORK AREA SHALL BE DETERMINED IN ACCORDANCE WITH N.J.A.C. 5:23–6.11(B). ADDITIONALLY, FOR BUILDINGS WITH AN OCCUPANT LOAD OF 100 OR MORE, A MAIN ENTRANCE CAPABLE OF SERVING AS THE MAIN EXIT WITH AN EGRESS CAPACITY FOR AT LEAST ONE–HALF THE TOTAL OCCUPANT LOAD IS REQUIRED. THE REMAINING EXITS SHALL BE CAPABLE OF PROVIDING ONE–HALF OF THE TOTAL REQUIRED EXIT CAPACITY. THIS PROVISION SHALL NOT APPLY IN BUILDINGS WITH MULTIPLE MAIN ENTRANCES. (PLAN REVIEW––BUILDING, FIRE. INSPECTION––BUILDING)

(e) DEAD END CORRIDORS: EXISTING DEAD END CORRIDORS SHALL NOT EXCEED 35 FEET IN LENGTH. EXCEPTIONS ARE AS FOLLOWS:
1. DEAD END CORRIDORS MAY BE UP TO 50 FEET IN LENGTH IN A BUILDING WITH AN AUTOMATIC ALARM SYSTEM INSTALLED IN CONFORMANCE WITH THE BUILDING CODE IN EFFECT AT THE TIME OF ITS INSTALLATION.
2. DEAD END CORRIDORS MAY BE UP TO 70 FEET IN LENGTH IN A BUILDING WITH AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN CONFORMANCE WITH THE BUILDING CODE IN EFFECT AT THE TIME OF ITS INSTALLATION. (PLAN REVIEW––BUILDING, FIRE. INSPECTION––BUILDING)

(f) MEANS OF EGRESS LIGHTING: ARTIFICIAL LIGHTING WITH AN INTENSITY OF NOT LESS THAN ONE FOOT CANDLE AT FLOOR LEVEL SHALL BE REQUIRED DURING ALL TIMES THAT THE CONDITIONS OF OCCUPANCY OF THE BUILDING REQUIRE THAT THE EXITS BE AVAILABLE. LIGHTING SHALL ALSO BE REQUIRED TO ILLUMINATE THE EXIT DISCHARGE. IN ALL BUILDINGS, ROOMS OR SPACES REQUIRED TO HAVE MORE THAN ONE EXIT OR EXIT ACCESS, MEANS OF EGRESS LIGHTING SHALL BE CONNECTED TO AN EMERGENCY ELECTRICAL SYSTEM CONFORMING TO NFPA 70 (NEC) EXCEPT THAT CONTINUED ILLUMINATION SHALL BE REQUIRED TO BE PROVIDED FOR NOT LESS THAN ONE HOUR IN THE CASE OF PRIMARY POWER LOSS.
1. IN BUILDINGS USED FOR MOTION PICTURES OR OTHER PROJECTIONS BY MEANS OF DIRECTED LIGHT, THE ILLUMINATION OF AISLES MAY BE REDUCED DURING PERIODS OF PROJECTION TO NOT LESS THAN 0.2 FOOT CANDLE. THE SWITCH REQUIREMENTS AND LOCATION(S) FOR CONTROLLING EGRESS LIGHTING CONNECTED TO THE EMERGENCY ELECTRICAL SYSTEM SHALL BE IN CONFORMANCE WITH THE NFPA 70 (NEC). (PLAN REVIEW––BUILDING, FIRE, ELECTRIC. INSPECTION––BUILDING)
(g) ILLUMINATED EXIT SIGNS: ILLUMINATED EXIT SIGNS SHALL BE PROVIDED FOR ALL REQUIRED MEANS OF EGRESS IN ALL BUILDINGS, ROOMS OR SPACES REQUIRED TO HAVE MORE THAN ONE EXIT OR EXIT ACCESS. EXIT SIGNS SHALL BE VISIBLE FROM THE EXIT ACCESS AND SUPPLEMENTED BY DIRECTIONAL SIGNS WHEN NECESSARY. (EXCEPTION: APPROVED MAIN EXTERIOR DOORS THAT ARE CLEARLY IDENTIFIED AS EXITS ARE NOT REQUIRED TO HAVE EXIT SIGNS.) EXIT SIGNS SHALL MEET THE FOLLOWING CRITERIA:
1. RED OR GREEN LETTERS AT LEAST SIX INCHES HIGH; MINIMUM WIDTH OF EACH STROKE 3/4 INCH ON A WHITE BACKGROUND OR IN OTHER APPROVED DISTINGUISHABLE COLORS. ARROWS, IF PROVIDED, SHALL BE SUCH THAT THE DIRECTION CANNOT READILY BE CHANGED. THE WORD "EXIT" SHALL BE CLEARLY DISCERNIBLE WHEN THE SIGN IS NOT ENERGIZED.
2. EXIT SIGNS SHALL BE ILLUMINATED AT ALL TIMES WHEN THE BUILDING IS OCCUPIED BY A SOURCE PROVIDING AT LEAST FIVE FOOT CANDLES AT THE ILLUMINATED SURFACE OR SHALL BE APPROVED SELF–LUMINOUS SIGNS WHICH PROVIDE EVENLY ILLUMINATED LETTERS WITH A MINIMUM LUMINANCE OF 0.06 FOOT LAMBERTS. EXIT SIGNS SHALL BE CONNECTED TO AN EMERGENCY ELECTRICAL SYSTEM CONFORMING TO NFPA 70 (NEC) EXCEPT THAT CONTINUED ILLUMINATION SHALL BE REQUIRED TO BE PROVIDED FOR NOT LESS THAN ONE HOUR IN THE CASE OF PRIMARY POWER LOSS. NO EMERGENCY POWER SHALL BE REQUIRED FOR APPROVED SELF–LUMINOUS SIGNS. (PLAN REVIEW––BUILDING, FIRE. INSPECTION––BUILDING)
(h) HANDRAILS: EVERY REQUIRED EXIT STAIRWAY HAVING THREE OR MORE RISERS AND NOT PROVIDED WITH HANDRAILS OR IN WHICH THE EXISTING HANDRAILS ARE IN DANGER OF COLLAPSING WHEN USED UNDER EMERGENCY EXITING CONDITIONS, SHALL BE PROVIDED WITH HANDRAILS FOR THE FULL LENGTH OF THE RUN OF STEPS ON AT LEAST ONE SIDE. ALL EXIT STAIRWAYS MORE THAN 66 INCHES WIDE SHALL HAVE HANDRAILS ON BOTH SIDES UNLESS THE FULL WIDTH OF THE STAIRWAY IS NOT NEEDED TO ACCOMMODATE THE DESIGN OCCUPANCY. (PLAN REVIEW––BUILDING, FIRE. INSPECTION––BUILDING)
(i) GUARDS: EVERY OPEN PORTION OF A STAIR, LANDING OR BALCONY WHICH IS MORE THAN 30 INCHES ABOVE THE FLOOR OR GRADE BELOW AND IS NOT PROVIDED WITH GUARDS OR THOSE IN WHICH THE EXISTING GUARDS ARE IN DANGER OF COLLAPSING WHEN USED UNDER EMERGENCY EXITING CONDITIONS, SHALL BE PROVIDED WITH GUARDS. (PLAN REVIEW––BUILDING, FIRE. INSPECTION––BUILDING)
(j) VERTICAL OPENING PROTECTION: VERTICAL OPENING PROTECTION FOR INTERIOR STAIRWAYS AND OTHER VERTICAL OPENINGS SHALL BE PROVIDED AS FOLLOWS:
1. FOR VERTICAL OPENINGS CONNECTING MORE THAN SIX FLOOR LEVELS, APPROVED ASSEMBLIES HAVING A FIRE RESISTANCE RATING OF NOT LESS THAN TWO HOURS WITH APPROVED OPENING PROTECTIVES SHALL BE REQUIRED.
2. FOR VERTICAL OPENINGS CONNECTING FOUR TO SIX FLOOR LEVELS, APPROVED ASSEMBLIES HAVING A FIRE RESISTANCE RATING OF NOT LESS THAN ONE HOUR WITH APPROVED OPENING PROTECTIVES SHALL BE REQUIRED.
3. FOR VERTICAL OPENINGS NOT EXCEEDING THREE STORIES, A MINIMUM 30–MINUTE UFC FIRE BARRIER SHALL BE REQUIRED. EXCEPTIONS ARE AS FOLLOWS:
i. WHEN CONNECTING THE MAIN FLOOR AND MEZZANINES; OR
ii. WHEN ALL OF THE FOLLOWING CONDITIONS ARE MET:
(1) THE COMMUNICATING AREA HAS A LOW HAZARD OCCUPANCY OR HAS A MODERATE HAZARD OCCUPANCY WHICH IS PROTECTED THROUGHOUT BY AN AUTOMATIC SPRINKLER SYSTEM;
(2) THE LOWEST OR NEXT TO THE LOWEST LEVEL IS A STREET FLOOR;
(3) THE ENTIRE AREA IS OPEN AND UNOBSTRUCTED IN A MANNER SUCH THAT IT MAY BE ASSUMED THAT A FIRE IN ANY PART OF THE INTERCONNECTED SPACES WILL BE READILY OBVIOUS TO ALL OF THE OCCUPANTS;
(4) EXIT CAPACITY IS SUFFICIENT TO PROVIDE EGRESS SIMULTANEOUSLY FOR ALL THE OCCUPANTS OF ALL LEVELS BY CONSIDERING ALL AREAS TO BE A SINGLE FLOOR AREA FOR THE DETERMINATION OF REQUIRED EXIT CAPACITY; AND
(5) EACH FLOOR LEVEL, CONSIDERED SEPARATELY, HAS AT LEAST ONE–HALF OF ITS INDIVIDUAL REQUIRED EXIT CAPACITY PROVIDED BY AN EXIT OR EXITS LEADING DIRECTLY OUT OF THAT LEVEL WITHOUT HAVING TO TRAVERSE ANOTHER COMMUNICATING FLOOR LEVEL OR BE EXPOSED TO THE SMOKE OR FIRE SPREADING FROM ANOTHER COMMUNICATING FLOOR LEVEL. (PLAN REVIEW––BUILDING, FIRE. INSPECTION––BUILDING)
(k) STRUCTURAL ELEMENTS: STRUCTURAL ELEMENTS WHICH ARE UNCOVERED DURING THE COURSE OF THE REHABILITATION AND WHICH ARE FOUND TO BE UNSOUND OR OTHERWISE STRUCTURALLY DEFICIENT, SHALL BE REINFORCED, SUPPORTED OR REPLACED IN ACCORDANCE WITH THE APPLICABLE STRUCTURAL DESIGN CRITERIA OF THE BUILDING SUBCODE. WHERE STRUCTURAL ELEMENTS ARE SOUND, THERE IS NO EXCESSIVE DEFLECTION (DEFINED AS DEFLECTION IN EXCESS OF THE STANDARDS SET FORTH IN N.J.A.C. 5:23–6.7(C)1), AND FIXED LOADS ARE NOT CHANGING IN A WAY THAT WILL INCREASE THE STRESSES ON EXISTING STRUCTURES BEYOND THAT WHICH IS PERMITTED BY N.J.A.C. 5:23–6.7(C), EXISTING STRUCTURAL ELEMENTS SHALL BE PERMITTED TO REMAIN. (BUILDING)
(l) PLUMBING FIXTURES: THE FOLLOWING APPLY TO PLUMBING FIXTURES: (PLUMBING)

1. FOR AUDITORIUMS, MUSEUMS, LIBRARIES, AND SIMILAR FACILITIES, PLUMBING FIXTURES SHALL BE PROVIDED AS FOLLOWS. WHERE THE PLUMBING SUBCODE ALLOWS FOR THE SUBSTITUTION OR OMISSION OF FIXTURES, SUCH SUBSTITUTIONS OR OMISSIONS SHALL ALSO BE PERMITTED UNDER THIS SECTION.

TOTAL OCCUPANCY<1,2>	WATER CLOSETS MALE	FEMALE	LAVATORIES	DRINKING WATER FACILITIES	SERVICE SINKS
1–50	1 UNISEX		1	1	1
51–100	1	1	1 PER SEX	1	1
101 AND OVER	FIXTURES TO BE PROVIDED AS PER TABLE 7.21.1 OF THE PLUMBING SUBCODE.				

NOTE 1. FOR PURPOSES OF DETERMINING THE NUMBER OF PLUMBING FIXTURES REQUIRED, TOTAL OCCUPANCY SHALL BE THE ANTICIPATED OCCUPANCY OF THE BUILDING UNDER NORMAL USE CONDITIONS. IT IS NOT NECESSARILY THE SAME AS THE TOTAL PERMITTED OCCUPANT LOAD BASED ON EGRESS CAPACITY.
NOTE 2. REQUIREMENTS FOR EMPLOYEES AND CUSTOMERS MAY BE MET WITH A SINGLE SET OF RESTROOMS. THE REQUIRED NUMBER OF FIXTURES SHALL BE THE GREATER OF THE REQUIRED NUMBER FOR EMPLOYEES OR CUSTOMERS.

TOTAL OCCUPANCY<1,2>	WATER CLOSETS	LAVATORIES	DRINKING WATER FACILITIES	SERVICE SINKS
1–25	1 UNISEX	1	0	0
26 AND OVER	FIXTURES TO BE PROVIDED AS PER TABLE 7.21.1 OF THE PLUMBING SUBCODE.			

NOTE 1. FOR PURPOSES OF DETERMINING THE NUMBER OF PLUMBING FIXTURES REQUIRED, TOTAL OCCUPANCY SHALL BE THE ANTICIPATED OCCUPANCY OF THE BUILDING UNDER NORMAL USE CONDITIONS. IT IS NOT NECESSARILY THE SAME AS THE TOTAL PERMITTED OCCUPANT LOAD BASED ON EGRESS CAPACITY.
NOTE 2. REQUIREMENTS FOR EMPLOYEES AND CUSTOMERS MAY BE MET WITH A SINGLE SET OF RESTROOMS. THE REQUIRED NUMBER OF FIXTURES SHALL BE THE GREATER OF THE REQUIRED NUMBER FOR EMPLOYEES OR CUSTOMERS.
3. FOR RECREATIONAL FACILITIES, PASSENGER TERMINALS, AND OTHER BUILDINGS OF GROUPS A–2 OTHER THAN NIGHTCLUBS, A–3 AND A–4, PLUMBING FIXTURES SHALL BE PROVIDED AS REQUIRED BY TABLE 7.21.1 OF THE PLUMBING SUBCODE. WHERE THE PLUMBING SUBCODE ALLOWS FOR THE SUBSTITUTION OR OMISSION OF FIXTURES, SUCH SUBSTITUTIONS OR OMISSIONS SHALL ALSO BE PERMITTED UNDER THIS SECTION.

(m) MECHANICAL REQUIREMENTS: ALL SPACES INTENDED FOR OCCUPANCY SHALL BE PROVIDED WITH EITHER NATURAL OR MECHANICAL VENTILATION.

1. SPACES INTENDED TO BE NATURALLY VENTILATED SHALL BE PROVIDED WITH OPENABLE DOORS, WINDOWS, LOUVERS, OR OTHER OPENINGS TO THE OUTDOORS. THE MINIMUM OPENABLE AREA TO THE OUTDOORS SHALL BE FOUR PERCENT OF THE FLOOR AREA BEING VENTILATED. WHERE ROOMS WITHOUT OPENINGS TO THE OUTDOORS ARE VENTILATED THROUGH AN ADJOINING ROOM, THE UNOBSTRUCTED OPENING TO THE ADJOINING ROOM SHALL BE AT LEAST EIGHT PERCENT OF THE FLOOR AREA OF THE INTERIOR ROOM OR SPACE, BUT NOT LESS THAN 25 SQUARE FEET. THE VENTILATION OPENINGS TO THE OUTDOORS SHALL BE BASED ON THE TOTAL FLOOR AREA BEING VENTILATED.
2. MECHANICALLY–VENTILATED SPACES SHALL COMPLY WITH THE FOLLOWING:
i. NEWLY–INSTALLED HVAC SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF THE MECHANICAL SUBCODE.
ii. EXISTING SYSTEMS THAT ARE ALTERED OR EXTENDED SHALL NOT REDUCE THE AMOUNT OF OUTSIDE AIR BELOW THE EXISTING RATE PER PERSON OR THE RATE INCLUDED IN THE MECHANICAL SUBCODE, WHICHEVER IS LOWER. AS A MINIMUM, MECHANICALLY–VENTILATED SPACES SHALL BE PROVIDED WITH FIVE CFM PER PERSON OF OUTDOOR AIR AND 15 CFM OF VENTILATION AIR PER PERSON.

3. ALL NEWLY–INTRODUCED DEVICES, EQUIPMENT OR OPERATIONS THAT PRODUCE AIRBORNE PARTICULATES, ODORS, FUMES, SPRAYS, VAPORS, SMOKE OR GASES IN SUCH QUANTITIES TO BE IRRITATING OR INJURIOUS TO HEALTH SHALL BE PROVIDED WITH LOCAL EXHAUST. (BUILDING)

(n) INTERIOR FINISHES SHALL COMPLY WITH N.J.A.C. 5:23–6.11(C). (PLAN REVIEW––BUILDING, FIRE. INSPECTION––BUILDING)
(o) SPECIFIC OCCUPANCY AREAS: SPECIFIC OCCUPANCY AREAS WITHIN THE WORK AREA, AS LISTED IN N.J.A.C. 5:23–6.30(H), SHALL COMPLY WITH THE REQUIREMENTS ESTABLISHED IN THAT SECTION FOR SEPARATION AND/OR PROTECTION. (BUILDING)

§5:23–6.14A SUPPLEMENTAL REQUIREMENTS––GROUPS A–2 OTHER THAN NIGHTCLUBS, A–3 AND A–4
(a) AUTOMATIC FIRE SPRINKLER SYSTEM: AN AUTOMATIC FIRE SPRINKLER SYSTEM SHALL BE INSTALLED THROUGHOUT THE FLOORS CONTAINING THE GROUP A–2 OTHER THAN NIGHTCLUBS, GROUPS A–3 AND A–4 AND ALL FLOORS BETWEEN THE GROUP A–2 OTHER THAN NIGHTCLUBS, GROUPS A–3 AND A–4 AND THE LEVEL OF EXIT DISCHARGE WHEN ANY ONE OF THE FOLLOWING CONDITIONS EXISTS:
1. THE WORK AREA EXCEEDS 12,000 SQUARE FEET (GROSS ENCLOSED FLOOR AREA);
2. THE WORK AREA HAS AN OCCUPANT LOAD OF 300 OR MORE;
3. THE WORK AREA IS LOCATED ON A FLOOR OTHER THAN THE LEVEL OF EXIT DISCHARGE.
4. EXCEPTION: SPRINKLERS SHALL NOT BE REQUIRED FOR PARTICIPANT SPORT AREAS WHERE THE MAIN FLOOR OF THE PARTICIPANT SPORT IS AT THE LEVEL OF EXIT DISCHARGE OF THE MAIN ENTRANCE. (FIRE)
(b) AUTOMATIC ALARM SYSTEM: WHEN THE WORK AREA EXCEEDS 25 PERCENT OF THE GROSS ENCLOSED FLOOR AREA OF THE BUILDING, AN AUTOMATIC FIRE ALARM SYSTEM THAT COMPLIES WITH NFPA 72 SHALL BE INSTALLED IN ALL STORAGE, WORKSHOP, BOILER OR FURNACE ROOMS. (FIRE)
(c) MANUAL ALARM SYSTEM: FOR BUILDINGS GREATER THAN THREE STORIES IN HEIGHT WITH OCCUPANT LOADS OVER 25, WHEN THE WORK AREA EXCEEDS 25 PERCENT OF THE GROSS ENCLOSED FLOOR AREA OF THE BUILDING, MANUAL FIRE ALARMS SHALL BE REQUIRED THROUGHOUT THE BUILDING. (FIRE)
(d) VERTICAL OPENING PROTECTION: WHEN THE WORK AREA EXCEEDS 50 PERCENT OF THE GROSS ENCLOSED FLOOR AREA OF THE BUILDING, VERTICAL OPENING PROTECTION SHALL BE PROVIDED THROUGHOUT THE BUILDING AS FOLLOWS:
1. A MINIMUM TWO HOUR FIRE RATED ASSEMBLY WITH APPROVED OPENING PROTECTIVES SHALL BE REQUIRED FOR INTERIOR STAIRWAYS AND OTHER VERTICAL OPENINGS CONNECTING MORE THAN SIX FLOOR LEVELS.
2. A MINIMUM ONE HOUR FIRE RATED ASSEMBLY WITH APPROVED OPENING PROTECTIVES SHALL BE REQUIRED FOR INTERIOR STAIRWAYS AND OTHER VERTICAL OPENINGS CONNECTING FOUR TO SIX FLOOR LEVELS.
3. A MINIMUM 30–MINUTE UFC FIRE BARRIER SHALL BE REQUIRED FOR INTERIOR STAIRWAYS AND OTHER VERTICAL OPENINGS NOT EXCEEDING THREE STORIES. EXCEPTIONS SHALL BE PERMITTED AS FOLLOWS:
i. WHEN CONNECTING THE MAIN FLOOR AND MEZZANINES; OR
ii. WHEN ALL OF THE FOLLOWING CONDITIONS ARE MET:
(1) THE COMMUNICATING AREA HAS A LOW HAZARD OCCUPANCY OR HAS A MODERATE HAZARD OCCUPANCY WHICH IS PROTECTED THROUGHOUT BY AN AUTOMATIC SPRINKLER SYSTEM; AND
(2) THE LOWEST OR NEXT TO THE LOWEST LEVEL IS A STREET FLOOR; AND
(3) THE ENTIRE AREA IS OPEN AND UNOBSTRUCTED IN A MANNER SUCH THAT IT MAY BE ASSUMED THAT A FIRE IN ANY PART OF THE INTERCONNECTED SPACES WILL BE READILY OBVIOUS TO ALL OF THE OCCUPANTS; AND
(4) EXIT CAPACITY IS SUFFICIENT TO PROVIDE EGRESS SIMULTANEOUSLY FOR ALL THE OCCUPANTS OF ALL LEVELS BY CONSIDERING ALL AREAS TO BE A SINGLE FLOOR AREA FOR THE DETERMINATION OF REQUIRED EXIT CAPACITY; AND
(5) EACH FLOOR LEVEL, CONSIDERED SEPARATELY, HAS AT LEAST ONE–HALF OF ITS INDIVIDUAL REQUIRED EXIT CAPACITY PROVIDED BY AN EXIT OR EXITS LEADING DIRECTLY OUT OF THAT LEVEL WITHOUT HAVING TO TRAVERSE ANOTHER COMMUNICATING FLOOR LEVEL OR BE EXPOSED TO THE SMOKE OR FIRE SPREADING FROM ANOTHER COMMUNICATING FLOOR LEVEL. (PLAN REVIEW––BUILDING, FIRE. INSPECTION–– BUILDING)
(a) ELEVATOR DEVICES: WHEN THE WORK AREA EXCEEDS 50 PERCENT OF THE GROSS ENCLOSED FLOOR AREA OF THE BUILDING, ALL ELEVATOR DEVICES SERVING ANY PART OF THE WORK AREA SHALL COMPLY WITH THE REQUIREMENTS OF N.J.A.C. 5:23–6.30(G). (ELEVATOR)

§5:23–6.17 BASIC REQUIREMENTS––GROUP B
(a) EXITS: TWO EXITS SHALL BE REQUIRED FOR STORIES WITH LESS THAN 500 OCCUPANTS. THREE EXITS SHALL BE REQUIRED FOR STORIES WITH 501 TO 1,000 OCCUPANTS. FOUR EXITS SHALL BE REQUIRED FOR STORIES WITH MORE THAN 1,000 OCCUPANTS. TWO MEANS OF EGRESS ARE ALSO REQUIRED FROM ALL MEZZANINES WITH AN OCCUPANT LOAD GREATER THAN 50 OR WITH EXIT TRAVEL DISTANCE GREATER THAN 75 FEET.
1. WHEN MORE THAN ONE EXIT IS REQUIRED, EXISTING FIRE ESCAPES SHALL BE ACCEPTED AS PROVIDING ONE OF THE REQUIRED MEANS OF EGRESS UNLESS JUDGED TO BE DANGEROUS FOR USE UNDER EMERGENCY EXITING CONDITIONS. FOR USE OF FIRE ESCAPES, ACCESS SHALL BE THROUGH A DOOR EXCEPT WHEN SERVING AN OCCUPANT LOAD OF 10 OR FEWER. ALL OCCUPANTS SHALL HAVE UNOBSTRUCTED ACCESS TO FIRE ESCAPES WITHOUT HAVING TO PASS THROUGH A ROOM SUBJECT TO LOCKING.
i. WHEN MORE THAN ONE EXIT IS REQUIRED AND THERE IS NOT SUFFICIENT SPACE FOR AN EXTERIOR STAIR WITHIN THE LOT LINE, A NEW FIRE ESCAPE SHALL BE ACCEPTED AS PROVIDING ONE OF THE REQUIRED MEANS OF EGRESS. NEWLY–INSTALLED FIRE ESCAPES SHALL COMPLY WITH FTO–3.
2. A SINGLE EXIT IS PERMITTED IN THE STORY AT THE LEVEL OF EXIT DISCHARGE WHEN THE OCCUPANT LOAD OF THE STORY DOES NOT EXCEED 50 AND THE EXIT ACCESS TRAVEL DISTANCE DOES NOT EXCEED 75 FEET.
3. A SINGLE EXIT SHALL BE PERMITTED IN BUILDINGS OF NOT MORE THAN TWO STORIES IN HEIGHT, WITH NOT MORE THAN 3,000 SQUARE FEET PER FLOOR WHEN THE EXIT ACCESS TRAVEL DISTANCE DOES NOT EXCEED 75 FEET AND A MINIMUM FIRE RESISTANCE RATING OF ONE HOUR IS PROVIDED FOR THE EXIT ENCLOSURE AND THE OPENING PROTECTION. (PLAN REVIEW––BUILDING, FIRE. INSPECTION––BUILDING)
(b) EGRESS DOORWAYS: A MINIMUM OF TWO EGRESS DOORWAYS SHALL BE REQUIRED FOR ALL ROOMS AND SPACES WITH AN OCCUPANT LOAD GREATER THAN 50 OR IN WHICH THE TRAVEL DISTANCE EXCEEDS 75 FEET. ALL EGRESS DOORS SERVING AN OCCUPANT LOAD GREATER THAN 50 SHALL SWING IN THE DIRECTION OF EXIT TRAVEL.
1. EXCEPTION: STORAGE ROOMS WITH A MAXIMUM OCCUPANT LOAD OF 10 SHALL NOT BE REQUIRED TO HAVE TWO EGRESS DOORWAYS. (PLAN REVIEW––BUILDING, FIRE. INSPECTION––BUILDING)
(c) CAPACITY OF MEANS OF EGRESS: THE CAPACITY OF THE MEANS OF EGRESS IN EACH WORK AREA SHALL BE DETERMINED IN ACCORDANCE WITH N.J.A.C. 5:23–6.11(B). (PLAN REVIEW––BUILDING, FIRE. INSPECTION––BUILDING)
(d) DEAD END CORRIDORS: EXISTING DEAD END CORRIDORS SHALL NOT EXCEED 35 FEET IN LENGTH. EXCEPTIONS ARE ALLOWED AS FOLLOWS:
1. DEAD END CORRIDORS MAY BE UP TO 50 FEET IN LENGTH IN A BUILDING WITH AN AUTOMATIC ALARM SYSTEM INSTALLED IN CONFORMANCE WITH THE BUILDING CODE IN EFFECT AT THE TIME OF ITS INSTALLATION.
2. DEAD END CORRIDORS MAY BE UP TO 70 FEET IN LENGTH IN A BUILDING WITH AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN CONFORMANCE WITH THE BUILDING CODE IN EFFECT AT THE TIME OF ITS INSTALLATION. (PLAN REVIEW––BUILDING, FIRE. INSPECTION––BUILDING)
(e) MEANS OF EGRESS LIGHTING: ARTIFICIAL LIGHTING WITH AN INTENSITY OF NOT LESS THAN ONE FOOT CANDLE AT FLOOR LEVEL SHALL BE REQUIRED DURING ALL TIMES THAT THE CONDITIONS OF OCCUPANCY OF THE BUILDING REQUIRE THAT THE EXITS BE AVAILABLE. LIGHTING SHALL ALSO BE REQUIRED TO ILLUMINATE THE EXIT DISCHARGE. IN ALL BUILDINGS, ROOMS OR SPACES REQUIRED TO HAVE MORE THAN ONE EXIT OR EXIT ACCESS, MEANS OF EGRESS LIGHTING SHALL BE CONNECTED TO AN EMERGENCY ELECTRICAL SYSTEM CONFORMING TO NFPA 70 (NEC) EXCEPT THAT CONTINUED ILLUMINATION SHALL BE REQUIRED TO BE PROVIDED FOR NOT LESS THAN ONE HOUR IN THE CASE OF PRIMARY POWER LOSS. (PLAN REVIEW––BUILDING, FIRE, ELECTRIC. INSPECTION––BUILDING)
(f) ILLUMINATED EXIT SIGNS: ILLUMINATED EXIT SIGNS SHALL BE PROVIDED FOR ALL REQUIRED MEANS OF EGRESS IN ALL BUILDINGS, ROOMS OR SPACES REQUIRED TO HAVE MORE THAN ONE EXIT OR EXIT ACCESS. EXIT SIGNS SHALL BE VISIBLE FROM THE EXIT ACCESS AND SUPPLEMENTED BY DIRECTIONAL SIGNS WHEN NECESSARY. (EXCEPTION: APPROVED MAIN EXTERIOR DOORS THAT ARE CLEARLY IDENTIFIED AS EXITS ARE NOT REQUIRED TO HAVE EXIT SIGNS.) EXIT SIGNS SHALL MEET THE FOLLOWING CRITERIA:
1. RED OR GREEN LETTERS AT LEAST SIX INCHES HIGH; MINIMUM WIDTH OF EACH STROKE 3/4 INCH ON A WHITE BACKGROUND OR IN OTHER APPROVED DISTINGUISHABLE COLORS. ARROWS, IF PROVIDED, SHALL BE SUCH THAT THE DIRECTION CANNOT READILY BE CHANGED. THE WORD "EXIT" SHALL BE CLEARLY DISCERNIBLE WHEN THE SIGN IS NOT ENERGIZED.
2. EXIT SIGNS SHALL BE ILLUMINATED AT ALL TIMES WHEN THE BUILDING IS OCCUPIED BY A SOURCE PROVIDING AT LEAST FIVE FOOT CANDLES AT THE ILLUMINATED SURFACE OR SHALL BE APPROVED SELF–LUMINOUS SIGNS WHICH PROVIDE EVENLY ILLUMINATED LETTERS WITH A MINIMUM LUMINANCE OF 0.06 FOOT LAMBERTS. EXIT SIGNS SHALL BE CONNECTED TO AN EMERGENCY ELECTRICAL SYSTEM CONFORMING TO NFPA 70 (NEC) EXCEPT THAT CONTINUED ILLUMINATION SHALL BE REQUIRED TO BE PROVIDED FOR NOT LESS THAN ONE HOUR IN THE CASE OF PRIMARY POWER LOSS. NO EMERGENCY POWER SHALL BE REQUIRED FOR APPROVED SELF–LUMINOUS SIGNS. (PLAN REVIEW––BUILDING, FIRE. INSPECTION––BUILDING)
(g) HANDRAILS: EVERY REQUIRED EXIT STAIRWAY HAVING THREE OR MORE RISERS AND NOT PROVIDED WITH HANDRAILS OR IN WHICH THE EXISTING HANDRAILS ARE IN DANGER OF COLLAPSING WHEN USED UNDER EMERGENCY EXITING CONDITIONS, SHALL BE PROVIDED WITH HANDRAILS FOR THE FULL LENGTH OF THE RUN OF STEPS ON AT LEAST ONE SIDE. ALL EXIT STAIRWAYS MORE THAN 66 INCHES WIDE SHALL HAVE HANDRAILS ON BOTH SIDES UNLESS THE FULL WIDTH OF THE STAIRWAY IS NOT NEEDED TO ACCOMMODATE THE DESIGN OCCUPANCY. (PLAN REVIEW––BUILDING, FIRE. INSPECTION––BUILDING)
(h) GUARDS: EVERY OPEN PORTION OF A STAIR, LANDING OR BALCONY WHICH IS MORE THAN 30 INCHES ABOVE THE FLOOR OR GRADE BELOW AND IS NOT PROVIDED WITH GUARDS OR THOSE IN WHICH THE EXISTING GUARDS ARE IN DANGER OF COLLAPSING WHEN USED UNDER EMERGENCY EXITING CONDITIONS, SHALL BE PROVIDED WITH GUARDS. (PLAN REVIEW––BUILDING, FIRE. INSPECTION––BUILDING)
(i) VERTICAL OPENING PROTECTION: VERTICAL OPENING PROTECTION FOR INTERIOR STAIRWAYS AND OTHER VERTICAL OPENINGS SHALL BE PROVIDED AS FOLLOWS:
1. FOR VERTICAL OPENINGS CONNECTING MORE THAN SIX FLOOR LEVELS, APPROVED ASSEMBLIES HAVING A FIRE RESISTANCE RATING OF NOT LESS THAN TWO HOURS WITH APPROVED OPENING PROTECTIVES SHALL BE REQUIRED.
2. FOR VERTICAL OPENINGS CONNECTING FOUR TO SIX FLOOR LEVELS, APPROVED ASSEMBLIES HAVING A FIRE RESISTANCE RATING OF NOT LESS THAN ONE HOUR WITH APPROVED OPENING PROTECTIVES SHALL BE REQUIRED.
3. FOR VERTICAL OPENINGS NOT EXCEEDING THREE STORIES, A MINIMUM 30–MINUTE UFC FIRE BARRIER SHALL BE REQUIRED, WITH THE FOLLOWING EXCEPTION:
i. NO VERTICAL OPENING PROTECTION SHALL BE REQUIRED FOR VERTICAL OPENINGS OF UP TO THREE STORIES IN BUILDINGS NOT EXCEEDING 3,000 SQUARE FEET PER FLOOR OR IN BUILDINGS WITH AN AUTOMATIC SPRINKLER SYSTEM THROUGHOUT. (PLAN REVIEW––BUILDING, FIRE. INSPECTION––BUILDING)
(j) STRUCTURAL ELEMENTS: STRUCTURAL ELEMENTS WHICH ARE UNCOVERED DURING THE COURSE OF THE REHABILITATION AND WHICH ARE FOUND TO BE UNSOUND OR OTHERWISE STRUCTURALLY DEFICIENT, SHALL BE REINFORCED, SUPPORTED OR REPLACED IN ACCORDANCE WITH THE APPLICABLE STRUCTURAL DESIGN CRITERIA OF THE BUILDING SUBCODE. WHERE STRUCTURAL ELEMENTS ARE SOUND, THERE IS NO EXCESSIVE DEFLECTION (DEFINED AS DEFLECTION IN EXCESS OF THE STANDARDS SET FORTH IN N.J.A.C. 5:23–6.7(C)1), AND FIXED LOADS ARE NOT CHANGING IN A WAY THAT WILL INCREASE THE STRESSES ON EXISTING STRUCTURES BEYOND THAT WHICH IS PERMITTED BY N.J.A.C. 5:23–6.7(C), EXISTING STRUCTURAL ELEMENTS SHALL BE PERMITTED TO REMAIN. (BUILDING)
(k) PLUMBING FIXTURES: PLUMBING FIXTURES SHALL BE PROVIDED AS FOLLOWS: WHERE THE PLUMBING SUBCODE ALLOWS FOR THE SUBSTITUTION OR OMISSION OF FIXTURES, SUCH SUBSTITUTIONS OR OMISSIONS SHALL ALSO BE PERMITTED UNDER THIS SECTION. (PLUMBING)

	TOTAL OCCUPANCY<1, 2, 3, 4>	WATER CLOSETS	LAVATORIES	DRINKING LAVATORIES WATER FACILITIES	SERVICE SINKS
EMPLOYEES	1–15 1	UNISEX	1	1	1
	16 AND OVER	FIXTURES TO BE PROVIDED AS PER TABLE 7.21.1 OF THE PLUMBING SUBCODE.			
CUSTOMERS	1–25 1 UNISEX	1	1	1	
	26 AND OVER	FIXTURES TO BE PROVIDED AS PER TABLE 7.21.1 OF THE PLUMBING SUBCODE.			

NOTE 1. FOR PURPOSES OF DETERMINING THE NUMBER OF PLUMBING FIXTURES REQUIRED, TOTAL OCCUPANCY SHALL BE THE ANTICIPATED OCCUPANCY OF THE BUILDING UNDER NORMAL USE CONDITIONS. IT IS NOT NECESSARILY THE SAME AS THE TOTAL PERMITTED OCCUPANT LOAD BASED ON EGRESS CAPACITY.
NOTE 2. CUSTOMER AND EMPLOYEE FACILITIES MAY BE SATISFIED WITH A SINGLE UNISEX TOILET FACILITY WHERE THE NUMBER OF EMPLOYEES DOES NOT EXCEED 15 AND WHERE THE TOTAL OCCUPANCY DOES NOT EXCEED 25 OR WHERE THE OCCUPIED FLOOR AREA DOES NOT EXCEED 1,500 SQUARE FEET.
NOTE 3. REQUIREMENTS FOR EMPLOYEES AND CUSTOMERS MAY BE MET WITH A SINGLE SET OF RESTROOMS. THE REQUIRED NUMBER OF FIXTURES SHALL BE THE GREATER OF THE REQUIRED NUMBER FOR EMPLOYEES OR CUSTOMERS.
NOTE 4. REGARDLESS OF TOTAL OCCUPANCY, EXAM ROOMS SHALL COMPLY WITH SECTION 7.21.6E OF THE PLUMBING SUBCODE.

(l) MECHANICAL REQUIREMENTS: ALL SPACES INTENDED FOR OCCUPANCY SHALL BE PROVIDED WITH EITHER NATURAL OR MECHANICAL VENTILATION.
1. SPACES INTENDED TO BE NATURALLY VENTILATED SHALL BE PROVIDED WITH OPENABLE DOORS, WINDOWS, LOUVERS, OR OTHER OPENINGS TO THE OUTDOORS. THE MINIMUM OPENABLE AREA TO THE OUTDOORS SHALL BE FOUR PERCENT OF THE FLOOR AREA BEING VENTILATED. WHERE ROOMS WITHOUT OPENINGS TO THE OUTDOORS ARE VENTILATED THROUGH AN ADJOINING ROOM, THE UNOBSTRUCTED OPENING TO THE ADJOINING ROOM SHALL BE AT LEAST EIGHT PERCENT OF THE FLOOR AREA OF THE INTERIOR ROOM OR SPACE, BUT NOT LESS THAN 25 SQUARE FEET. THE VENTILATION OPENINGS TO THE OUTDOORS SHALL BE BASED ON THE TOTAL FLOOR AREA BEING VENTILATED.
2. MECHANICALLY–VENTILATED SPACES SHALL COMPLY WITH THE FOLLOWING:
i. NEWLY–INSTALLED HVAC SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF THE MECHANICAL SUBCODE.
ii. EXISTING SYSTEMS THAT ARE ALTERED OR EXTENDED SHALL NOT REDUCE THE AMOUNT OF OUTSIDE AIR BELOW THE EXISTING RATE PER PERSON OR THE RATE INCLUDED IN THE MECHANICAL SUBCODE, WHICHEVER IS LOWER. AS A MINIMUM, MECHANICALLY–VENTILATED SPACES SHALL BE PROVIDED WITH FIVE CFM PER PERSON OF OUTDOOR AIR AND 15 CFM OF VENTILATION AIR PER PERSON.
3. ALL NEWLY–INTRODUCED DEVICES, EQUIPMENT OR OPERATIONS THAT PRODUCE AIRBORNE PARTICULATES, ODORS, FUMES, SPRAYS, VAPORS, SMOKE OR GASES IN SUCH QUANTITIES TO BE IRRITATING OR INJURIOUS TO HEALTH SHALL BE PROVIDED WITH LOCAL EXHAUST. (BUILDING)
(m) INTERIOR FINISHES SHALL COMPLY WITH N.J.A.C. 5:23–6.11(C). (PLAN REVIEW––BUILDING, FIRE. INSPECTION––BUILDING)
(n) SPECIFIC OCCUPANCY AREAS: SPECIFIC OCCUPANCY AREAS WITHIN THE WORK AREA, AS LISTED IN N.J.A.C. 5:23– 6.30(H), SHALL COMPLY WITH THE REQUIREMENTS ESTABLISHED IN THAT SECTION FOR SEPARATION AND/OR PROTECTION. (BUILDING)

§5:23–6.17A SUPPLEMENTAL REQUIREMENTS––GROUP B
(o) MANUAL ALARM SYSTEM: WHEN THE WORK AREA EXCEEDS 50 PERCENT OF THE GROSS ENCLOSED FLOOR AREA OF THE BUILDING, A FIRE ALARM SYSTEM SHALL BE INSTALLED THROUGHOUT THE BUILDING.
1. EXCEPTION: MANUAL ALARM SYSTEMS ARE NOT REQUIRED IN BUILDINGS WHICH DO NOT HAVE OCCUPIED FLOORS WHICH ARE TWO OR MORE STORIES ABOVE THE LOWEST LEVEL OF EXIT DISCHARGE OR FLOORS TWO OR MORE STORIES BELOW THE HIGHEST LEVEL OF EXIT DISCHARGE. (FIRE)
(b) VERTICAL OPENING PROTECTION: WHEN THE WORK AREA EXCEEDS 50 PERCENT OF THE GROSS ENCLOSED FLOOR AREA OF THE BUILDING, VERTICAL OPENING PROTECTION SHALL BE PROVIDED THROUGHOUT THE BUILDING AS FOLLOWS:
1. A MINIMUM TWO HOUR FIRE RATED ASSEMBLY WITH APPROVED OPENING PROTECTIVES SHALL BE REQUIRED FOR INTERIOR STAIRWAYS AND OTHER VERTICAL OPENINGS CONNECTING MORE THAN SIX FLOOR LEVELS.
2. A MINIMUM ONE HOUR FIRE RATED ASSEMBLY WITH APPROVED OPENING PROTECTIVES SHALL BE REQUIRED FOR INTERIOR STAIRWAYS AND OTHER VERTICAL OPENINGS CONNECTING FOUR TO SIX FLOOR LEVELS.
3. A MINIMUM 30–MINUTE UFC FIRE BARRIER SHALL BE REQUIRED FOR INTERIOR STAIRWAYS AND OTHER VERTICAL OPENINGS NOT EXCEEDING THREE STORIES.
i. EXCEPTION: NO VERTICAL OPENING PROTECTION SHALL BE REQUIRED FOR BUILDINGS UP TO 3,000 SQUARE FEET PER FLOOR OR FOR BUILDINGS WITH AN AUTOMATIC SPRINKLER SYSTEM THROUGHOUT. (PLAN REVIEW––BUILDING, FIRE. INSPECTION––BUILDING)
(c) NOT APPLICABLE
(d) ELEVATOR DEVICES: WHEN THE WORK AREA EXCEEDS 50 PERCENT OF THE GROSS ENCLOSED FLOOR AREA OF THE BUILDING, ALL ELEVATOR DEVICES SERVING ANY PART OF THE WORK AREA SHALL COMPLY WITH THE REQUIREMENTS OF N.J.A.C. 5:23–6.30(G). (ELEVATOR)

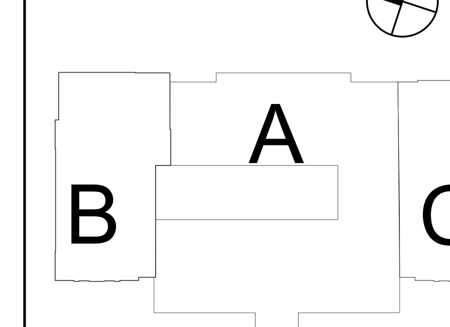
§5:23–6.28 BASIC REQUIREMENTS––GROUP S
(a) EXITS: TWO EXITS SHALL BE REQUIRED FOR STORIES WITH LESS THAN 500 OCCUPANTS. THREE EXITS SHALL BE REQUIRED FOR STORIES WITH 501 TO 1,000 OCCUPANTS. FOUR EXITS SHALL BE REQUIRED FOR STORIES WITH MORE THAN 1,000 OCCUPANTS. TWO MEANS OF EGRESS ARE ALSO REQUIRED FROM ALL MEZZANINES WITH AN OCCUPANT LOAD GREATER THAN 30 OR WITH AN EXIT TRAVEL DISTANCE GREATER THAN 100 FEET.
1. WHEN MORE THAN ONE EXIT IS REQUIRED, EXISTING FIRE ESCAPES SHALL BE ACCEPTED AS PROVIDING ONE OF THE REQUIRED MEANS OF EGRESS UNLESS JUDGED TO BE DANGEROUS FOR USE UNDER EMERGENCY EXITING CONDITIONS. FOR USE OF FIRE ESCAPES, ACCESS SHALL BE THROUGH A DOOR EXCEPT WHEN SERVING AN OCCUPANT LOAD OF 10 OR FEWER. ALL OCCUPANTS SHALL HAVE UNOBSTRUCTED ACCESS TO FIRE ESCAPES WITHOUT HAVING TO PASS THROUGH A ROOM SUBJECT TO LOCKING.
i. WHEN MORE THAN ONE EXIT IS REQUIRED AND THERE IS NOT SUFFICIENT SPACE FOR AN EXTERIOR STAIR WITHIN THE LOT LINE, A NEW FIRE ESCAPE SHALL BE ACCEPTED AS PROVIDING ONE OF THE REQUIRED MEANS OF EGRESS. NEWLY–INSTALLED FIRE ESCAPES SHALL COMPLY WITH FTO–3.
2. A SINGLE EXIT IS PERMITTED IN THE STORY AT THE LEVEL OF EXIT DISCHARGE WHEN THE OCCUPANT LOAD OF THE STORY DOES NOT EXCEED 30 AND THE EXIT ACCESS TRAVEL DISTANCE DOES NOT EXCEED 100 FEET.
3. A SINGLE EXIT IS PERMITTED IN OPEN PARKING STRUCTURES WHERE VEHICLES ARE MECHANICALLY PARKED.
4. A SINGLE EXIT IS PERMITTED IN BUILDINGS OF GROUP S–2 NOT MORE THAN TWO STORIES IN HEIGHT, WITH NOT MORE THAN 3,000 SQUARE FEET PER FLOOR WHEN THE EXIT ACCESS TRAVEL DISTANCE DOES NOT EXCEED 50 FEET AND A MINIMUM FIRE RESISTANCE RATING OF ONE HOUR IS PROVIDED FOR THE EXIT ENCLOSURE AND THE OPENING PROTECTION. (PLAN REVIEW––BUILDING, FIRE. INSPECTION––BUILDING)
(b) EGRESS DOORWAYS: A MINIMUM OF TWO EGRESS DOORWAYS SHALL BE REQUIRED FOR ALL ROOMS AND SPACES WITH AN OCCUPANT LOAD GREATER THAN 30 OR IN WHICH THE TRAVEL DISTANCE EXCEEDS 100 FEET. ALL EGRESS DOORS SERVING AN OCCUPANT LOAD GREATER THAN 50 SHALL SWING IN THE DIRECTION OF EXIT TRAVEL.
1. EXCEPTION: STORAGE ROOMS WITH A MAXIMUM OCCUPANT LOAD OF 10 SHALL NOT BE REQUIRED TO HAVE TWO EGRESS DOORWAYS. (PLAN REVIEW––BUILDING, FIRE. INSPECTION––BUILDING)
(c) CAPACITY OF MEANS OF EGRESS: THE CAPACITY OF THE MEANS OF EGRESS IN EACH WORK AREA SHALL BE DETERMINED IN ACCORDANCE WITH N.J.A.C. 5:23–6.11(B). (PLAN REVIEW––BUILDING, FIRE. INSPECTION––BUILDING)
(d) DEAD END CORRIDORS: EXISTING DEAD END CORRIDORS SHALL NOT EXCEED 35 FEET IN LENGTH. EXCEPTIONS ARE ALLOWED AS FOLLOWS:
1. DEAD END CORRIDORS MAY BE UP TO 50 FEET IN LENGTH IN A BUILDING WITH AN AUTOMATIC ALARM SYSTEM INSTALLED IN CONFORMANCE WITH THE BUILDING CODE IN EFFECT AT THE TIME OF ITS INSTALLATION.
2. DEAD END CORRIDORS MAY BE UP TO 70 FEET IN LENGTH IN A BUILDING WITH AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN CONFORMANCE WITH THE BUILDING CODE IN EFFECT AT THE TIME OF ITS INSTALLATION. (PLAN REVIEW––BUILDING, FIRE. INSPECTION––BUILDING)
(a) MEANS OF EGRESS LIGHTING: ARTIFICIAL LIGHTING WITH AN INTENSITY OF NOT LESS THAN ONE FOOT CANDLE AT FLOOR LEVEL SHALL BE REQUIRED DURING ALL TIMES THAT THE CONDITIONS OF OCCUPANCY OF THE BUILDING REQUIRE THAT THE EXITS BE AVAILABLE. IN ALL BUILDINGS, ROOMS OR SPACES REQUIRED TO HAVE MORE THAN ONE EXIT OR EXIT ACCESS, MEANS OF EGRESS LIGHTING SHALL BE CONNECTED TO AN EMERGENCY ELECTRICAL SYSTEM CONFORMING TO NFPA 70 (NEC) EXCEPT THAT CONTINUED ILLUMINATION SHALL BE REQUIRED TO BE PROVIDED FOR NOT LESS THAN ONE HOUR IN THE CASE OF PRIMARY POWER LOSS.
1. EXCEPTION: LIGHTING TO ILLUMINATE THE EXIT DISCHARGE SHALL NOT BE REQUIRED. (PLAN REVIEW––BUILDING, FIRE, ELECTRIC. INSPECTION––BUILDING)
(a) ILLUMINATED EXIT SIGNS: ILLUMINATED EXIT SIGNS SHALL BE PROVIDED FOR ALL REQUIRED MEANS OF EGRESS IN ALL BUILDINGS, ROOMS OR SPACES REQUIRED TO HAVE MORE THAN ONE EXIT OR EXIT ACCESS. EXIT SIGNS SHALL BE VISIBLE FROM THE EXIT ACCESS AND SUPPLEMENTED BY DIRECTIONAL SIGNS WHEN NECESSARY. (EXCEPTION: APPROVED MAIN EXTERIOR DOORS THAT ARE CLEARLY IDENTIFIED AS EXITS ARE NOT REQUIRED TO HAVE EXIT SIGNS.) EXIT SIGNS SHALL MEET THE FOLLOWING CRITERIA:
1. RED OR GREEN LETTERS AT LEAST SIX INCHES HIGH; MINIMUM WIDTH OF EACH STROKE 3/4 INCH ON A WHITE BACKGROUND OR IN OTHER APPROVED DISTINGUISHABLE COLORS. ARROWS, IF PROVIDED, SHALL BE SUCH THAT THE DIRECTION CANNOT READILY BE CHANGED. THE WORD "EXIT" SHALL BE CLEARLY DISCERNIBLE WHEN THE SIGN IS NOT ENERGIZED.
2. EXIT SIGNS SHALL BE ILLUMINATED AT ALL TIMES WHEN THE BUILDING IS OCCUPIED BY A SOURCE PROVIDING AT LEAST FIVE FOOT CANDLES AT THE ILLUMINATED SURFACE OR SHALL BE APPROVED SELF–LUMINOUS SIGNS WHICH PROVIDE EVENLY ILLUMINATED LETTERS WITH A MINIMUM LUMINANCE OF 0.06 FOOT LAMBERTS. EXIT SIGNS SHALL BE CONNECTED TO AN EMERGENCY ELECTRICAL SYSTEM CONFORMING TO NFPA 70 (NEC) EXCEPT THAT CONTINUED ILLUMINATION SHALL BE REQUIRED TO BE PROVIDED FOR NOT LESS THAN ONE HOUR IN THE CASE OF PRIMARY POWER LOSS. NO EMERGENCY POWER SHALL BE REQUIRED FOR APPROVED SELF–LUMINOUS SIGNS. (PLAN REVIEW––BUILDING, FIRE. INSPECTION––BUILDING)
(a) HANDRAILS: EVERY REQUIRED EXIT STAIRWAY HAVING THREE OR MORE RISERS AND NOT PROVIDED WITH HANDRAILS OR IN WHICH THE EXISTING HANDRAILS ARE IN DANGER OF COLLAPSING WHEN USED UNDER EMERGENCY EXITING CONDITIONS, SHALL BE PROVIDED WITH HANDRAILS FOR THE FULL LENGTH OF THE RUN OF STEPS ON AT LEAST ONE SIDE. ALL EXIT STAIRWAYS MORE THAN 66 INCHES WIDE SHALL HAVE HANDRAILS ON BOTH SIDES UNLESS THE FULL WIDTH OF THE STAIRWAY IS NOT NEEDED TO ACCOMMODATE THE DESIGN OCCUPANCY. (PLAN REVIEW––BUILDING, FIRE. INSPECTION––BUILDING)
(h) GUARDS: EVERY OPEN PORTION OF A STAIR, LANDING OR BALCONY WHICH IS MORE THAN 30 INCHES ABOVE THE FLOOR OR GRADE BELOW AND IS NOT PROVIDED WITH GUARDS OR THOSE IN WHICH THE EXISTING GUARDS ARE IN DANGER OF COLLAPSING WHEN USED UNDER EMERGENCY EXITING CONDITIONS, SHALL BE PROVIDED WITH GUARDS. (PLAN REVIEW––BUILDING, FIRE. INSPECTION––BUILDING)
(i) VERTICAL OPENING PROTECTION: VERTICAL OPENING PROTECTION FOR INTERIOR STAIRWAYS AND OTHER VERTICAL OPENINGS SHALL BE PROVIDED AS FOLLOWS:
1. FOR VERTICAL OPENINGS CONNECTING MORE THAN SIX FLOOR LEVELS, APPROVED ASSEMBLIES HAVING A FIRE RESISTANCE RATING OF NOT LESS THAN TWO HOURS WITH APPROVED OPENING PROTECTIVES SHALL BE REQUIRED.
2. FOR VERTICAL OPENINGS CONNECTING FOUR TO SIX FLOOR LEVELS, APPROVED ASSEMBLIES HAVING A FIRE RESISTANCE RATING OF NOT LESS THAN ONE HOUR WITH APPROVED OPENING PROTECTIVES SHALL BE REQUIRED. (PLAN REVIEW––BUILDING, FIRE. INSPECTION––BUILDING)
(a) STRUCTURAL ELEMENTS: STRUCTURAL ELEMENTS WHICH ARE UNCOVERED DURING THE COURSE OF THE REHABILITATION AND WHICH ARE FOUND TO BE UNSOUND OR OTHERWISE STRUCTURALLY DEFICIENT, SHALL BE REINFORCED, SUPPORTED OR REPLACED IN ACCORDANCE WITH THE APPLICABLE STRUCTURAL DESIGN CRITERIA OF THE BUILDING SUBCODE. WHERE STRUCTURAL ELEMENTS ARE SOUND, THERE IS NO EXCESSIVE DEFLECTION (DEFINED AS DEFLECTION IN EXCESS OF THE STANDARDS SET FORTH IN N.J.A.C. 5:23–6.7(C)1), AND FIXED LOADS ARE NOT CHANGING IN A WAY THAT WILL INCREASE THE STRESSES ON EXISTING STRUCTURES BEYOND THAT WHICH IS PERMITTED BY N.J.A.C. 5:23–6.7(C), EXISTING STRUCTURAL ELEMENTS SHALL BE PERMITTED TO REMAIN. (BUILDING)
(b) PLUMBING FIXTURES: PLUMBING FIXTURES SHALL BE PROVIDED AS FOLLOWS. WHERE THE PLUMBING SUBCODE ALLOWS FOR THE SUBSTITUTION OR OMISSION OF FIXTURES, SUCH SUBSTITUTIONS OR OMISSIONS SHALL ALSO BE PERMITTED UNDER THIS SECTION. (PLUMBING)

TOTAL OCCUPANCY<1>	WATER CLOSETS	LAVATORIES	DRINKING WATER FACILITIES	SERVICE SNKS
1–15	1 UNISEX	1	1	1
16 AND OVER	FIXTURES TO BE PROVIDED AS PER TABLE 7.21.1 OF THE PLUMBING SUBCODE.			

NOTE 1. FOR PURPOSES OF DETERMINING THE NUMBER OF PLUMBING FIXTURES REQUIRED, TOTAL OCCUPANCY SHALL BE THE ANTICIPATED OCCUPANCY OF THE BUILDING UNDER NORMAL USE CONDITIONS. IT IS NOT NECESSARILY THE SAME AS THE TOTAL PERMITTED OCCUPANT LOAD BASED ON EGRESS CAPACITY.
(c) MECHANICAL REQUIREMENTS: ALL SPACES INTENDED FOR OCCUPANCY SHALL BE PROVIDED WITH EITHER NATURAL OR MECHANICAL VENTILATION.
1. SPACES INTENDED TO BE NATURALLY VENTILATED SHALL BE PROVIDED WITH OPENABLE DOORS, WINDOWS, LOUVERS, OR OTHER OPENINGS TO THE OUTDOORS. THE MINIMUM OPENABLE AREA TO THE OUTDOORS SHALL BE FOUR PERCENT OF THE FLOOR AREA BEING VENTILATED. WHERE ROOMS WITHOUT OPENINGS TO THE OUTDOORS ARE VENTILATED THROUGH AN ADJOINING ROOM, THE UNOBSTRUCTED OPENING TO THE ADJOINING ROOM SHALL BE AT LEAST EIGHT PERCENT OF THE FLOOR AREA OF THE INTERIOR ROOM OR SPACE, BUT NOT LESS THAN 25 SQUARE FEET. THE VENTILATION OPENINGS TO THE OUTDOORS SHALL BE BASED ON THE TOTAL FLOOR AREA BEING VENTILATED.

KEY PLAN:

ANNEX



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	12/08/25	OUT TO BID
	12/03/25	DCA Submission

Revisions / Issues

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Client:
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Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
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Sheet 0 of 000

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NEW JERSEY UCC REHABILITATION SUBCODE (NJAC 5:23-6)

2. MECHANICALLY-VENTILATED SPACES SHALL COMPLY WITH THE FOLLOWING:
i. NEWLY-INSTALLED HVAC SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF THE MECHANICAL SUBCODE.
ii. EXISTING SYSTEMS THAT ARE ALTERED OR EXTENDED SHALL NOT REDUCE THE AMOUNT OF OUTSIDE AIR BELOW THE EXISTING RATE PER PERSON OR THE RATE INCLUDED IN THE MECHANICAL SUBCODE, WHICHEVER IS LOWER. AS A MINIMUM, MECHANICALLY-VENTILATED SPACES SHALL BE PROVIDED WITH FIVE CFM PER PERSON OF OUTDOOR AIR AND 15 CFM OF VENTILATION AIR PER PERSON.
1. ALL NEWLY-INTRODUCED DEVICES, EQUIPMENT OR OPERATIONS THAT PRODUCE AIRBORNE PARTICULATES, ODORS, FUMES, SPRAYS, VAPORS, SMOKE OR GASES IN SUCH QUANTITIES TO BE IRRITATING OR INJURIOUS TO HEALTH SHALL BE PROVIDED WITH LOCAL EXHAUST. (BUILDING)
(m) INTERIOR FINISHES SHALL COMPLY WITH N.J.A.C. 5:23-6.11(C). (PLAN REVIEW--BUILDING, FIRE. INSPECTION--BUILDING)
(n) SPECIFIC OCCUPANCY AREAS: SPECIFIC OCCUPANCY AREAS WITHIN THE WORK AREA, AS LISTED IN N.J.A.C. 5:23-6.30(H), SHALL COMPLY WITH THE REQUIREMENTS ESTABLISHED IN THAT SECTION FOR SEPARATION AND/OR PROTECTION. (BUILDING)

§5:23-6.28A SUPPLEMENTAL REQUIREMENTS--GROUP S
(a) AUTOMATIC SPRINKLER SYSTEM: IN BUILDINGS WITH A GROUP S-1 FIRE AREA GREATER THAN 12,000 SQUARE FEET OR A GROUP S-1 FIRE AREA MORE THAN THREE STORIES IN HEIGHT, WHEN THE WORK AREA EXCEEDS 50 PERCENT OF THE GROSS ENCLOSED FLOOR AREA OF THE BUILDING, AN AUTOMATIC SPRINKLER SYSTEM SHALL BE PROVIDED THROUGHOUT THE ENTIRE BUILDING.
(b) MANUAL ALARM SYSTEM: FOR BUILDINGS GREATER THAN THREE STORIES IN HEIGHT WITH OCCUPANT LOADS OVER 25, WHEN THE WORK AREA EXCEEDS 50 PERCENT OF THE GROSS ENCLOSED FLOOR AREA OF THE BUILDING, MANUAL FIRE ALARMS SHALL BE REQUIRED THROUGHOUT THE BUILDING.
1. EXCEPTION: MANUAL ALARM SYSTEMS SHALL NOT BE REQUIRED IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM. (FIRE)
(c) VERTICAL OPENING PROTECTION: WHEN THE WORK AREA EXCEEDS 50 PERCENT OF THE GROSS ENCLOSED FLOOR AREA OF THE BUILDING, VERTICAL OPENING PROTECTION SHALL BE PROVIDED THROUGHOUT THE BUILDING AS FOLLOWS:
1. A MINIMUM TWO HOUR FIRE RATED ASSEMBLY WITH APPROVED OPENING PROTECTIVES SHALL BE REQUIRED FOR INTERIOR STAIRWAYS AND OTHER VERTICAL OPENINGS CONNECTING MORE THAN SIX FLOOR LEVELS.
2. A MINIMUM ONE HOUR FIRE RATED ASSEMBLY WITH APPROVED OPENING PROTECTIVES SHALL BE REQUIRED FOR INTERIOR STAIRWAYS AND OTHER VERTICAL OPENINGS CONNECTING FOUR TO SIX FLOOR LEVELS. (PLAN REVIEW--BUILDING, FIRE. INSPECTION--BUILDING)
(e) ELEVATOR DEVICES: WHEN THE WORK AREA EXCEEDS 50 PERCENT OF THE GROSS ENCLOSED FLOOR AREA OF THE BUILDING, ALL ELEVATOR DEVICES SERVING ANY PART OF THE WORK AREA SHALL COMPLY WITH THE REQUIREMENTS OF N.J.A.C. 5:23-6.30(G). (ELEVATOR)

§5:23-6.29 MIXED USE BUILDINGS
EACH PORTION OF A BUILDING SHALL BE SEPARATELY CLASSIFIED AS TO USE. THE REQUIREMENTS OF THIS SUBCODE SHALL APPLY TO EACH PORTION OF THE BUILDING BASED ON THE GROUP OF THAT PORTION, EXCEPT THAT THE MOST RESTRICTIVE REQUIREMENTS OF THIS SUBCODE FOR AN AUTOMATIC SPRINKLER SYSTEM SHALL APPLY TO THE ENTIRE BUILDING.
1. EXCEPTION: AN AUTOMATIC SPRINKLER SYSTEM SHALL NOT BE REQUIRED FOR USES THAT WOULD NOT OTHERWISE NEED AN AUTOMATIC SPRINKLER SYSTEM PROVIDED THAT THERE IS A ONE-HOUR FIRE SEPARATION BETWEEN THE USE(S) REQUIRING AN AUTOMATIC SPRINKLER SYSTEM AND THE OTHER USE(S) IN THE SAME BUILDING. A TWO-HOUR FIRE SEPARATION ASSEMBLY SHALL BE REQUIRED TO APPLY THIS EXCEPTION IN ANY BUILDING WHERE ONE OR MORE OF THE USES IS H. (PLAN REVIEW--BUILDING, FIRE. INSPECTION--BUILDING)

§5:23-6.30 SPECIAL TECHNICAL REQUIREMENTS--ALL GROUPS
(b) WHEN AN AUTOMATIC SPRINKLER SYSTEM IS REQUIRED OR PROVIDED, THE SPRINKLER RISER SHALL BE SIZED TO SERVE THE ENTIRE BUILDING EVEN IF THE SYSTEM CURRENTLY BEING INSTALLED SERVES ONLY A PORTION OF THE BUILDING.
(c) WINDOWLESS STORIES: IN ALL BUILDINGS, ANY WINDOWLESS BASEMENT OR STORY LOCATED BELOW THE SEVENTH STORY WHICH IS CREATED BY THE WORK BEING PERFORMED OR ANY EXISTING WINDOWLESS BASEMENT OR STORY LOCATED BELOW THE SEVENTH STORY IN WHICH THE WORK AREA EXCEEDS 50 PERCENT OF THE GROSS ENCLOSED FLOOR AREA OF THE WINDOWLESS STORY SHALL BE EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH THE NEW JERSEY UNIFORM CONSTRUCTION CODE.

7. IN WINDOWLESS BASEMENTS GREATER THAN 3,000 SQUARE FEET, BUT NOT EXCEEDING 10,000 SQUARE FEET IN AREA, THE REQUIRED AUTOMATIC SPRINKLER SYSTEM NEED NOT BE CONNECTED TO A WATER SUPPLY OTHER THAN AN EXISTING DOMESTIC SUPPLY IF THE FOLLOWING CONDITIONS ARE MET:
i. THE AUTOMATIC SPRINKLER SYSTEM SHALL BE PROVIDED WITH A FIRE DEPARTMENT CONNECTION, WHICH SHALL BE MARKED WITH A SIGN READING "BASEMENT AREA SPRINKLER WATER SUPPLY"; AND
ii. A SUPERVISED AUTOMATIC FIRE ALARM SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE NEW JERSEY UNIFORM CONSTRUCTION CODE. (FIRE)
(d) SUPERVISION OF AUTOMATIC SPRINKLER SYSTEMS: WHEN AUTOMATIC SPRINKLER SYSTEMS ARE REQUIRED BY THIS SUBCODE TO BE SUPERVISED, THIS SHALL BE ACCOMPLISHED BY ONE OF THE FOLLOWING METHODS AS DETERMINED BY THE FIRE SUBCODE OFFICIAL:
1. APPROVED CENTRAL STATION SYSTEM IN ACCORDANCE WITH NFPA 72;
2. APPROVED PROPRIETARY SYSTEM IN ACCORDANCE WITH NFPA 72;
3. APPROVED REMOTE STATION SYSTEM OF THE JURISDICTION IN ACCORDANCE WITH NFPA 72; OR
4. APPROVED LOCAL ALARM SERVICE WHICH WILL CAUSE THE SOUNDING OF AN ALARM IN ACCORDANCE WITH NFPA 72;
5. THE FOLLOWING ARE EXCEPTIONS TO (D) ABOVE:
i. UNDERGROUND GATE VALVES WITH ROADWAY BOXES;
ii. HALOGENATED EXTINGUISHING SYSTEMS;
iii. CARBON-DIOXIDE EXTINGUISHING SYSTEMS;
iv. DRY CHEMICAL EXTINGUISHING SYSTEMS; AND
v. LIMITED AREA SPRINKLER SYSTEMS. (FIRE)
(e) TECHNICAL REQUIREMENTS FOR SMOKE BARRIERS: WHEREVER SMOKE BARRIERS ARE REQUIRED BY THIS SUBCHAPTER, THEY SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING PROVISIONS:
1. SMOKE BARRIERS SHALL HAVE A FIRE RESISTANCE RATING OF NOT LESS THAN ONE-HALF HOUR AND SHALL FORM AN EFFECTIVE MEMBRANE CONTINUOUS FROM OUTSIDE WALL TO OUTSIDE WALL AND FROM FLOOR SLAB TO FLOOR OR ROOF DECK ABOVE, INCLUDING CONTINUITY THROUGH ALL CONCEALED SPACES, SUCH AS THOSE FOUND ABOVE SUSPENDED CEILINGS, AND INCLUDING INTERSTITIAL STRUCTURAL AND MECHANICAL SPACES. TRANSFER GRILLES, WHETHER EQUIPPED WITH FUSIBLE LINK-OPERATED DAMPERS OR NOT, SHALL NOT BE USED IN THESE PARTITIONS. WIRE GLASS PANELS NOT EXCEEDING 1,296 SQUARE INCHES IN APPROVED STEEL FRAMES MAY BE USED IN SMOKE BARRIERS.
i. EXCEPTION: SMOKE BARRIERS ARE NOT REQUIRED IN INTERSTITIAL SPACES WHEN SUCH SPACES ARE DESIGNED AND CONSTRUCTED WITH CEILINGS THAT PROVIDE RESISTANCE TO THE PASSAGE OF FIRE AND SMOKE EQUIVALENT TO THAT PROVIDED BY SMOKE BARRIERS.
2. A MEANS OF EGRESS SHALL BE PROVIDED FROM EACH SMOKE COMPARTMENT CREATED BY SMOKE BARRIERS SUCH THAT IT IS POSSIBLE TO REACH AN EXIT WITHOUT RE-ENTERING THE SMOKE COMPARTMENT.

3. DOORS IN SMOKE BARRIERS SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 20 MINUTES WHEN TESTED IN ACCORDANCE WITH ASTM E152 WITHOUT THE HOSE STREAM AND LABELED BY AN APPROVED AGENCY. DOUBLE EGRESS CORRIDOR DOORS SHALL HAVE VISION PANELS OF ONE-QUARTER INCH THICK LABELED WIRE GLASS MOUNTED IN APPROVED STEEL FRAMES. SUCH PANELS MAY ALSO BE PROVIDED IN OTHER DOORS IN SMOKE BARRIERS. THE GLASS AREA OF THE VISION PANELS SHALL BE LIMITED TO 1,296 SQUARE INCHES FOR EACH DOOR. THE DOORS SHALL CLOSE THE OPENINGS WITH ONLY THE CLEARANCE NECESSARY FOR PROPER OPERATION UNDER SELF-CLOSING OR AUTOMATIC CLOSING AND SHALL BE WITHOUT UNDERCUTS, LOUVERS OR GRILLES. RABBETS OR ASTRAGALS ARE REQUIRED AT THE MEETING EDGES OF DOUBLE EGRESS DOORS, AND STOPS ARE REQUIRED ON THE HEAD AND JAMBS OF ALL DOORS IN SMOKE BARRIERS. POSITIVE LATCHING DEVICES ARE NOT REQUIRED ON DOUBLE EGRESS CORRIDOR DOORS, AND CENTER MULLIONS ARE PROHIBITED.
i. EXCEPTION: PROTECTION AT THE MEETING EDGES OF DOORS AND STOPS AT THE HEAD AND SIDES OF DOOR FRAMES MAY BE OMITTED IN BUILDINGS EQUIPPED WITH AN APPROVED ENGINEERED SMOKE CONTROL SYSTEM. THE ENGINEERED SMOKE CONTROL SYSTEM SHALL RESPOND AUTOMATICALLY, PREVENTING THE TRANSFER OF SMOKE ACROSS THE BARRIER.

4. DOORS IN SMOKE BARRIERS SHALL BE SELF-CLOSING OR SHALL BE PROVIDED WITH APPROVED DOOR HOLD-OPEN DEVICES OF THE FAIL-SAFE TYPE WHICH SHALL RELEASE THE DOORS CAUSING THEM TO CLOSE UPON THE ACTUATION OF SMOKE DETECTORS AS WELL AS UPON THE APPLICATION OF A MAXIMUM MANUAL PULL OF 50 POUNDS AGAINST THE HOLD-OPEN DEVICE.

5. AN APPROVED DAMPER DESIGNED TO RESIST THE PASSAGE OF SMOKE SHALL BE PROVIDED AT EACH POINT A DUCT PENETRATES A SMOKE BARRIER. THE DAMPER SHALL CLOSE UPON DETECTION OF SMOKE BY AN APPROVED SMOKE DETECTOR LOCATED WITHIN THE DUCT.
i. IN LIEU OF AN APPROVED SMOKE DETECTOR LOCATED WITHIN THE DUCT, DUCTS WHICH PENETRATE SMOKE BARRIERS ABOVE DOORS ARE PERMITTED TO HAVE THE APPROVED DAMPER ARRANGED TO CLOSE UPON DETECTION OF SMOKE ON EITHER SIDE OF THE SMOKE BARRIER DOOR OPENING.
ii. DAMPERS ARE NOT REQUIRED IN BUILDINGS EQUIPPED WITH AN APPROVED ENGINEERED SMOKE CONTROL SYSTEM.
iii. DAMPERS ARE NOT REQUIRED WHERE THE OPENINGS IN DUCTS ARE LIMITED TO A SINGLE SMOKE COMPARTMENT AND THE DUCTS ARE OF STEEL CONSTRUCTION. (PLAN REVIEW--BUILDING, FIRE. INSPECTION--BUILDING)
(f) EXISTING ALARM SYSTEMS AND AUTOMATIC SPRINKLER SYSTEMS SHALL BE ACCEPTED PROVIDED THAT THEY MEET THE REQUIREMENTS OF N.J.A.C. 5:23-6.8, MATERIALS AND METHODS, OR THE STANDARDS APPLICABLE AT THE TIME OF THEIR INSTALLATION AND PROVIDED THAT THERE IS NO INCREASE IN THE HAZARD OF THE USE OR IN THE LOAD. (FIRE)
(g) TECHNICAL REQUIREMENTS FOR ELEVATOR DEVICES: WHERE ELEVATOR REQUIREMENTS ARE TRIGGERED BY THE SUPPLEMENTAL REQUIREMENTS FOR EACH GROUP (N.J.A.C. 5:23-6.12A THROUGH 6.28A), THE FOLLOWING SHALL APPLY:
1. PASSENGER ELEVATORS. ELEVATOR DEVICES ACCESSIBLE TO THE GENERAL PUBLIC SHALL CONFORM TO:
i. ASME A17.3-2000 REQUIREMENTS FOR HOISTWAY DOOR LOCKING DEVICES, PARKING DEVICES, AND ACCESS (SECTIONS 2.7, 4.1); HOISTWAY ENTRANCES (SECTIONS 2.6, 4.1); POWER OPERATION OF DOORS AND GATES (SECTIONS 2.8, 4.1); FLOATING PLATFORMS (SECTION 3.3.4); CAR DOORS AND GATES (SECTION 3.4.2); LOCATION OF CAR DOORS AND GATES (SECTION 3.4.3); EMERGENCY EXITS (SECTION 3.4.4); CAR ILLUMINATION (SECTION 3.4.5) AND PROTECTION OF LIGHT BULBS AND TUBES (SECTION 3.4.6); TERMINAL STOPPING DEVICES (SECTIONS 3.9, 4.6); OPERATING DEVICES AND CONTROL EQUIPMENT (SECTIONS 3.10, 4.7 EXCEPT 4.7.8); CAR EMERGENCY SIGNALING DEVICES (SECTIONS 3.11.1 AND 4.7.8); STOP SWITCH (PITS) (SECTIONS 2.3.3, 4.1); MACHINE ROOMS AND MACHINERY SPACES: LIGHTING (SECTION 2.2.3) AND VENTILATION (SECTION 2.2.4) CHECK VALVE (HYDRAULIC ELEVATORS) (SECTION 4.4.2).
ii. ASME A17.1-1996 REQUIREMENTS FOR SHUTOFF VALVE (RULE 303.4A) AND MANUAL LOWERING VALVE (RULE 303.4D)

§5:23-6.31 CHANGE OF USE
(a) GENERAL: THE FOLLOWING ARE OF GENERAL APPLICABILITY TO CHANGES OF USE:
1. WHEN THE USE OF A BUILDING IS CHANGED, THEN THE BUILDING MUST BE BROUGHT INTO COMPLIANCE WITH THE REQUIREMENTS OF THIS SECTION. EACH OF THE LETTERED SUBSECTIONS OF THIS SECTION ESTABLISHES A SPECIFIC TYPE OF REQUIREMENT. THIS SECTION ESTABLISHES REQUIREMENTS FOR COMPLIANCE WITH THE BASIC REQUIREMENTS OF THIS SUBCODE, FOR MEANS OF EGRESS, FOR ENCLOSURE OF VERTICAL OPENINGS, FOR HEIGHT AND AREA LIMITATION, FOR EXTERIOR WALL FIRE RESISTANCE, FOR AUTOMATIC SPRINKLER SYSTEMS, FOR FIRE ALARM SYSTEMS, FOR FIRE DETECTION SYSTEMS, FOR STRUCTURAL SOUNDNESS, FOR PLUMBING, ELECTRICAL, AND MECHANICAL SYSTEMS, AND FOR ACCESSIBILITY.
2. THE SUBSECTIONS GOVERNING COMPLIANCE WITH THE BASIC REQUIREMENTS, MEANS OF EGRESS, HEIGHT AND AREA LIMITATIONS, EXTERIOR WALL FIRE RESISTANCE, AND AUTOMATIC SPRINKLER SYSTEMS INCORPORATE RELATIVE GROUP HAZARD INDEX TABLES. COMPLIANCE WITH THE REQUIREMENTS OF THE SUBSECTION IS REQUIRED WHEN THE CHANGE OF USE WILL INCREASE THE RELATIVE HAZARD. EACH OF THE SUBSECTIONS SHOULD BE APPLIED SEPARATELY TO THE PROPOSED NEW USE.
3. THIS SECTION MAY REQUIRE AN OWNER TO UNDERTAKE WORK IN ORDER TO BE PERMITTED TO CHANGE THE USE OF A BUILDING OR A PORTION OF A BUILDING. ADDITIONALLY, THE OWNER OF A BUILDING MAY WISH TO UNDERTAKE OTHER WORK NOT REQUIRED BY THE SECTION. THAT WORK MUST COMPLY WITH THE REQUIREMENTS FOR REPAIR, RENOVATION, ALTERATION, AND/OR RECONSTRUCTION APPLICABLE TO THE NEW GROUP IN ACCORDANCE WITH THE PROVISIONS OF THIS SUBCODE.
4. FIRE PROTECTION SYSTEM REMOVAL: ANY FIRE PROTECTION SYSTEM PROVIDING PARTIAL OR REDUNDANT PROTECTION ORIGINALLY INSTALLED TO PROTECT A SPECIAL HAZARD THAT NO LONGER EXISTS AND THAT IS NOT REQUIRED IN ACCORDANCE WITH THE CURRENT UNIFORM CONSTRUCTION CODE, IS ALLOWED TO BE REMOVED WITH THE WRITTEN APPROVAL OF THE FIRE SUBCODE OFFICIAL AND FIRE OFFICIAL. ALL DISCONNECTED EQUIPMENT AND DEVICES, SUCH AS PULL STATIONS, NOZZLES, DETECTORS, SPRINKLERS, SENSORS, PANELS, AND HOSE CONNECTIONS, SHALL BE REMOVED SO AS NOT TO GIVE A FALSE INDICATION THAT THE STRUCTURE, AREA, OR SPACE IS PROTECTED. (FIRE)

(b) COMPLIANCE WITH BASIC REQUIREMENTS: COMPLIANCE WITH THE BASIC REQUIREMENTS SHALL BE REQUIRED AS FOLLOWS:

TABLE B
RELATIVE GROUP HAZARD

1 (HIGHEST)	H-1, H-2, H-3
2	A-1, A-2 NIGHTCLUBS, H-4, H-5, F-1, I-3, M, S-1
3	A-2 OTHER THAN NIGHTCLUBS, A-3, A-4, A-5, B, F-2, I-2, I-4, R-1, S-2
4	A-3 PLACES OF WORSHIP, E, I-1, R-2 AND R-4 BUILDINGS MORE THAN TWO STORIES IN HEIGHT OR MORE THAN FOUR DWELLING UNITS
5 (LOWEST)	R-2 AND R-4 BUILDINGS TWO STORIES OR FEWER IN HEIGHT AND FOUR DWELLING UNITS OR LESS, R-3, R-5, U

1. WHEN THE USE OF A BUILDING IS CHANGED TO A HIGHER RELATIVE USE GROUP HAZARD AS SHOWN IN TABLE B ABOVE, THE BUILDING SHALL COMPLY WITH THE BASIC REQUIREMENTS OF N.J.A.C. 5:23-6.10 THROUGH 6.30 APPLIED THROUGHOUT THE BUILDING FOR THE NEW GROUP UNLESS OTHERWISE PROVIDED. WHERE ANOTHER LETTERED SUBSECTION OF THIS SECTION ESTABLISHES A REQUIREMENT THAT DIFFERS FROM THE BASIC REQUIREMENT, THE REQUIREMENT CONTAINED IN THAT OTHER LETTERED SUBSECTION SHALL GOVERN.
i. WHERE A PORTION OF A BUILDING IS CHANGED TO A HIGHER RELATIVE GROUP HAZARD, THE BUILDING SHALL COMPLY WITH THE BASIC REQUIREMENTS OF N.J.A.C. 5:23-6.10 THROUGH 6.30 FOR AN AUTOMATIC SPRINKLER SYSTEM AND FIRE DETECTION AND/OR ALARMS APPLIED THROUGHOUT THE BUILDING FOR THE NEW GROUP UNLESS THE PROPOSED USE IS SEPARATED FROM THE EXISTING USE(S) BY A FIRE BARRIER OR HORIZONTAL ASSEMBLY, OR BOTH, HAVING A FIRE RESISTANCE RATING IN ACCORDANCE WITH TABLE 707.3.10 OF THE BUILDING SUBCODE IN WHICH CASE ONLY THE PORTION CHANGED SHALL COMPLY; MIXED OCCUPANCIES SHALL USE THE HIGHEST APPLICABLE RATING FROM TABLE 707.3.10. THE PORTION OF THE BUILDING CHANGED SHALL COMPLY WITH ALL THE OTHER BASIC REQUIREMENTS OF N.J.A.C. 5:23-6.10 THROUGH 6.30 FOR THE NEW GROUP.
2. WHEN A CHANGE OF USE IS MADE TO AN EQUAL OR LESSER RELATIVE GROUP HAZARD AS SHOWN IN TABLE B ABOVE, THE EXISTING BUILDING IS NOT REQUIRED TO COMPLY WITH THE BASIC REQUIREMENTS EXCEPT:
i. WHERE REQUIRED IN CONNECTION WITH ALTERATION OR RECONSTRUCTION WORK BY THE SECTIONS OF THIS SUBCODE APPLICABLE TO ALTERATION OR RECONSTRUCTION WORK; OR
ii. WHERE THE PROPOSED USE IS SUBJECT TO AND NOT IN COMPLIANCE WITH THE APPLICABLE REQUIREMENTS OF N.J.A.C. 5:70-4.

DISCUSSION:
THE PROJECT HAS INCREASED THE RELATIVE GROUP HAZARD THE FOLLOWING WAYS:
FROM GROUP 4 (E USE: CLASSROOMS AND LOCKERS) TO GROUP 3 (B AND S-2 USES)
FROM GROUP 3 (A-2 USE: CAFETERIA) TO GROUP 2 (S-1 USE: SCENE SHOP)
AN AUTOMATIC SPRINKLER SYSTEM AND FIRE DETECTION AND/OR ALARMS APPLIED THROUGHOUT THE BUILDING FOR THE AREAS OCCUPIED OF ALL GROUPS WILL BE IN AFFECT.

(c) MEANS OF EGRESS: THE FOLLOWING REQUIREMENTS APPLY TO MEANS OF EGRESS IN A CHANGE OF USE:

TABLE C
HAZARD CATEGORIES AND CLASSIFICATIONS: MEANS OF EGRESS

RELATIVE HAZARD	USE CLASSIFICATION
1 (HIGHEST)	H-1, H-2, H-3, A2 NIGHTCLUBS
2	I-2, I-3, I-4
3	A (OTHER THAN A-2 NIGHTCLUBS), E, I-1, M, R-1, R-2, R-4
4	B, F-1, R-3, R-5, S-1, H-4, H-5
5 (LOWEST)	F-2, S-2, U

1. FOR ANY CHANGE OF USE, EXCEPT A CHANGE OF USE TO GROUP A-2 NIGHTCLUBS, THE OCCUPANT LOAD OF THE SPACE SHALL BE CALCULATED BASED ON THE CAPACITY OF THE EXITS AS PER N.J.A.C. 5:23-6.11(B). THE OCCUPANT LOAD SHALL NOT EXCEED ONE OCCUPANT PER FIVE SQUARE FEET FLOOR AREA UNLESS THE BUILDING COMPLIES WITH CHAPTER 10 OF THE BUILDING SUBCODE IN ITS ENTIRETY.

ii. WHERE A PORTION OF A BUILDING UNDERGOES A CHANGE OF USE, THE DETERMINATION OF THE CAPACITY OF THE EXIT(S) SERVING THAT PORTION SHALL INCLUDE ALL SPACES SERVED BY THOSE EXIT(S).

3. WHEN A CHANGE OF USE IS MADE TO AN EQUAL OR LESSER HAZARD CATEGORY AS SHOWN IN TABLE C ABOVE, THE EXISTING BUILDING IS NOT REQUIRED TO COMPLY WITH THE REQUIREMENTS CONTAINED IN (C)2 ABOVE EXCEPT IN AREAS WHERE RECONSTRUCTION WORK BEING PERFORMED IN CONNECTION WITH THE CHANGE OF USE TRIGGERS THESE REQUIREMENTS.
7. NOTWITHSTANDING THE RELATIVE HAZARD AS DETERMINED BY TABLE B OR C ABOVE, WHERE ANY CHANGE IN USE OCCURS TO A GROUP A OR GROUP E WITH AN OCCUPANT LOAD OF 50 OR MORE, APPROVED PANIC HARDWARE SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 1010.2.9 (PANIC AND FIRE EXIT HARDWARE) OF THE BUILDING SUBCODE.

DISCUSSION:
THE PROJECT HAS DECREASED THE RELATIVE GROUP HAZARD THE FOLLOWING WAYS:
FROM GROUP 3 (A AND E USES) TO GROUP 4 (B, S-1 AND S-1 USES)

(d) ENCLOSURE OF VERTICAL OPENINGS:
FOR ANY CHANGE OF USE THAT ALSO CONSTITUTES A CHANGE IN GROUP, VERTICAL OPENINGS OTHER THAN STAIRS SHALL BE PROTECTED AS REQUIRED BY N.J.A.C. 5:23-6.10 THROUGH 6.30 FOR THE PROPOSED USE WITHIN EACH SPACE UNDERGOING A CHANGE OF USE.

(e) HEIGHT AND AREA LIMITATIONS: THE FOLLOWING HEIGHT AND AREA LIMITATIONS APPLY IN A CHANGE OF USE.

TABLE E
HAZARD CATEGORIES AND CLASSIFICATIONS: HEIGHT AND AREA

RELATIVE HAZARD	USE CLASSIFICATION
1 (HIGHEST)	A-2 NIGHTCLUBS, H-1, H-2, I-2, I-3, I-4
2	A-1, A-2 OTHER THAN NIGHTCLUBS, A-3, A-4, E, F-1, H-3, H-4, H-5, I-1, M, S-1
3	A-3 PLACES OF WORSHIP, B, R-1, R-2, R-4
4 (LOWEST)	F-2, R-3, R-5, S-2, U

2. WHEN A CHANGE OF USE IS MADE TO AN EQUAL OR LESSER HAZARD CATEGORY AS SHOWN IN TABLE E, THE EXISTING BUILDING MAY CONTINUE TO EXCEED THE MAXIMUM ALLOWABLE HEIGHT AND AREA PERMITTED FOR NEW BUILDINGS.

DISCUSSION:
THE PROJECT HAS EQUAL OR LESSER HAZARD CATEGORIES
FROM GROUP 2 (A-2 USE: CAFETERIA) TO EQUAL HAZARD GROUP 2 (S-1 USE: SCENE SHOP)
FROM GROUP 2 (A-3 USE: GYM) TO EQUAL HAZARD GROUP 2 (A-3 USE: UNOCCUPIED ASSEMBLY)
FROM GROUP 2 (E USE: CLASSROOMS) TO LESSER HAZARD GROUP 2 (B USE)
FROM GROUP 2 (E USE: LOCKER ROOM) TO LESSER HAZARD GROUP 2 (S-2 USE)

THEREFORE, LIMITATIONS FROM CHAPTER 5 OF THE IBC NJ ED DOES NOT APPLY

(e) HEIGHT AND AREA LIMITATIONS: THE FOLLOWING HEIGHT AND AREA LIMITATIONS APPLY IN A CHANGE OF USE.

TABLE E
HAZARD CATEGORIES AND CLASSIFICATIONS: HEIGHT AND AREA

RELATIVE HAZARD	USE CLASSIFICATION
1 (HIGHEST)	A-2 NIGHTCLUBS, H-1, H-2, I-2, I-3, I-4
2	A-1, A-2 OTHER THAN NIGHTCLUBS, A-3, A-4, E, F-1, H-3, H-4, H-5, I-1, M, S-1
3	A-3 PLACES OF WORSHIP, B, R-1, R-2, R-4
4 (LOWEST)	F-2, R-3, R-5, S-2, U

2. WHEN A CHANGE OF USE IS MADE TO AN EQUAL OR LESSER HAZARD CATEGORY AS SHOWN IN TABLE E, THE EXISTING BUILDING MAY CONTINUE TO EXCEED THE MAXIMUM ALLOWABLE HEIGHT AND AREA PERMITTED FOR NEW BUILDINGS.

DISCUSSION:
THE PROJECT HAS EQUAL OR LESSER HAZARD CATEGORIES
FROM GROUP 2 (A-2 USE: CAFETERIA) TO EQUAL HAZARD GROUP 2 (S-1 USE: SCENE SHOP)
FROM GROUP 2 (A-3 USE: GYM) TO EQUAL HAZARD GROUP 2 (A-3 USE: UNOCCUPIED ASSEMBLY)
FROM GROUP 2 (E USE: CLASSROOMS) TO LESSER HAZARD GROUP 2 (B USE)
FROM GROUP 2 (E USE: LOCKER ROOM) TO LESSER HAZARD GROUP 2 (S-2 USE)

THEREFORE, LIMITATIONS FROM TABLES 504.3, 504.4 AND 506.2 OF THE IBC NJ ED DOES NOT APPLY.

(f) EXTERIOR WALL FIRE RESISTANCE RATINGS AND MAXIMUM AREA OF EXTERIOR WALL OPENINGS: THE FOLLOWING EXTERIOR WALL FIRE RESISTANCE RATINGS AND MAXIMUM AREA OF EXTERIOR WALL OPENINGS APPLY IN CHANGES OF USE:

TABLE F
HAZARD CATEGORIES AND CLASSIFICATIONS: EXPOSURE OF EXTERIOR WALLS

RELATIVE HAZARD	USE CLASSIFICATION
1 (HIGHEST)	H
2	BUILDINGS EXCEEDING 12,000 SQ FT OF F-1, M, OR S-1
3	A, B, E, F-2, I, R-1, S-2, BUILDINGS 12,000 SQ FT OR LESS OF F-1, M OR S-1
4 (LOWEST)	R-2, R-3, R-4, R-5, U

DISCUSSION:
THE PROJECT HAS EQUAL OR LESSER HAZARD CATEGORIES
FROM GROUP 3 (A, E, S) TO EQUAL HAZARD GROUP 3 (A, B, S-1 LESS THAN 12,000 SF, S-2 USES)

REQUIREMENTS FOR EXTERIOR WALL FIRE RESISTANCE RATING BUILDING USE GROUP (NOTE B)

FIRE SEPARATION DISTANCE	H-2	F-1, H-3, M, S-1	A, B, E, F-2, S-2, H-4, H-5, I, R-1
0-5 FEET	4	3	2 (NOTE A)
OVER 5-10 FEET	3	2	1
OVER 10-15 FEET	2	1	0
OVER 15-30 FEET	1	0	0
OVER 30 FEET	0	0	0

NOTE A: EXISTING EIGHT-INCH HOLLOW OR SIX-INCH SOLID MASONRY WALLS SHALL BE ACCEPTED AS A TWO-HOUR RATING IN OTHER THAN GROUP H-2 OR H-3.

NOTE B: WHEN THE GROUP OF A BUILDING IS CHANGED TO H-1, THE BUILDING SHALL BE LOCATED IN ACCORDANCE WITH SECTION 415.6 OF THE BUILDING SUBCODE.

i. THE REQUIREMENTS FOR EXTERIOR WALL FIRE RESISTANCE RATING SHALL NOT APPLY TO EXTERIOR WALLS WHICH FACE BUILDINGS ON THE SAME LOT WHERE THE BUILDINGS ARE SUCH THAT, IF COMBINED INTO ONE STRUCTURE, THE RESULTING BUILDING WOULD COMPLY WITH THE HEIGHT AND AREA LIMITATIONS OF TABLES 504.3, 504.4 AND 506.2 OF THE BUILDING SUBCODE.

iii. WHEN A CHANGE OF USE IS MADE TO AN EQUAL OR LESSER HAZARD CLASSIFICATION AS SHOWN IN TABLE F, NO CHANGE IN THE RATING OF EXISTING EXTERIOR WALLS IS REQUIRED.

iv. THE FIRE RESISTANCE RATING OF NON-LOADBEARING EXTERIOR WALLS MAY BE REDUCED BY ONE HOUR IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM. IN A BUILDING EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH NFPA 13, THE FIRE RESISTANCE RATING OF A NON-LOADBEARING EXTERIOR WALL MAY BE REDUCED BY ONE HOUR WITH THE FOLLOWING EXCEPTIONS:

(1) EXCEPTION: WHERE THE FIRE SEPARATION DISTANCE IS FIVE FEET OR LESS, THE FIRE RESISTANCE RATING SHALL NOT BE REDUCED TO LESS THAN ONE HOUR.
(2) EXCEPTION 2 DOES NOT APPLY TO THIS PROJECT.

2. EXTERIOR WALL OPENINGS: IF THE GROUP OF A BUILDING IS CHANGED TO A HIGHER HAZARD CLASSIFICATION IN ACCORDANCE WITH TABLE F, THE REQUIREMENTS FOR EXTERIOR WALL OPENINGS IN THE TABLE BELOW SHALL BE MET.
TABLE NOT SHOWN BECAUSE IT DOES NOT APPLY PER
iii. WHEN A CHANGE OF USE IS MADE TO AN EQUAL OR LESSER HAZARD CLASSIFICATION AS SHOWN IN TABLE F, NO CHANGE IN EXISTING EXTERIOR WALL OPENINGS IS REQUIRED. (PLAN REVIEW--BUILDING, FIRE. INSPECTION--BUILDING)

(g) AUTOMATIC SPRINKLER SYSTEMS: THE FOLLOWING AUTOMATIC SPRINKLER SYSTEM REQUIREMENTS APPLY IN CHANGES OF USE.

TABLE G
HAZARD CATEGORIES AND CLASSIFICATIONS AUTOMATIC SPRINKLER SYSTEMS

RELATIVE HAZARD	USE CLASSIFICATION
1 (HIGHEST)	A-2 NIGHTCLUBS, H, I
2	A-2 (OTHER THAN NIGHTCLUBS), R-1, R-2, R-3, R-4
3	A-1, A-3, A-4
4	F-1, M, S-1
5	A-3 PLACES OF WORSHIP, E
6 (LOWEST)	A-5, B, F-2, R-5, S-2, U

WHEN A CHANGE OF USE IS MADE TO A HIGHER HAZARD CATEGORY AS SHOWN IN TABLE G, THE BUILDING SHALL BE PROVIDED WITH AN AUTOMATIC SPRINKLER SYSTEM AS REQUIRED BY THE FOLLOWING SECTIONS OF THE BUILDING SUBCODE: 903.2.1 FOR GROUP A OCCUPANCIES, 903.2.3 FOR GROUP E OCCUPANCIES, 903.2.4 FOR GROUP F-1 OCCUPANCIES, 903.2.5 FOR GROUP H OCCUPANCIES, 903.2.6 FOR GROUP I OCCUPANCIES, 903.2.7 FOR GROUP M OCCUPANCIES, 903.2.8 FOR GROUP R OCCUPANCIES, 903.2.9 FOR GROUP S-1, 903.2.10 FOR GROUP S-2, AND 903.2.11.1 FOR WINDOWLESS STORIES (STORIES WITHOUT OPENINGS.) WHEN THIS SECTION REQUIRES AN AUTOMATIC SPRINKLER SYSTEM, COMPLIANCE WITH 903.3 OF THE BUILDING SUBCODE IS ALSO REQUIRED.
WHEN A PORTION OF A BUILDING IS CHANGED TO A HIGHER HAZARD CATEGORY AND THE PROPOSED USE IS SEPARATED FROM THE EXISTING USE(S) BY A FIRE BARRIER OR HORIZONTAL ASSEMBLY, OR BOTH, HAVING A FIRE RESISTANCE RATING IN ACCORDANCE WITH TABLE 707.3.10 OF THE BUILDING SUBCODE, AN AUTOMATIC SPRINKLER SYSTEM AS REQUIRED ABOVE SHALL BE INSTALLED ONLY IN THE PORTION CHANGED; MIXED OCCUPANCIES SHALL USE THE HIGHEST APPLICABLE RATING FROM TABLE 707.3.10.

2. WHEN A CHANGE OF USE IS MADE TO AN EQUAL OR LESSER HAZARD CATEGORY AS SHOWN IN TABLE G, THERE IS NO REQUIREMENT TO INSTALL AN AUTOMATIC SPRINKLER SYSTEM EXCEPT IN AREAS WHERE WORK BEING PERFORMED IN CONNECTION WITH THE CHANGE OF USE TRIGGERS A REQUIREMENT FOR AN AUTOMATIC SPRINKLER SYSTEM AND IN WINDOWLESS STORIES IN ACCORDANCE WITH N.J.A.C. 5:23-6.30(C) OF THIS SUBCHAPTER.

DISCUSSION:
THE PROJECT HAS EQUAL OR LESSER THE RELATIVE GROUP HAZARD THE FOLLOWING WAYS:
FROM GROUP 3 (A-3 USE) TO EQUAL GROUP 3 (A-3 USE)
FROM GROUP 2 (A-2 USE: CAFETERIA) TO LESSER GROUP 4 (S-1 USE: SCENE SHOP)
FROM GROUP 5 (E USE) TO LESSER GROUP 6 (B USE)
FROM GROUP 5 (E USE: LOCKER ROOM) TO LESSER GROUP 6 (S-2 USE)

(h) FIRE ALARM AND DETECTION SYSTEMS: WHEN A CHANGE OF USE IS MADE TO ANY OF THE FOLLOWING GROUPS, A FIRE ALARM SYSTEM AND/OR AN AUTOMATIC FIRE DETECTION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 907 OF THE BUILDING SUBCODE. WHERE A PORTION OF A BUILDING IS CHANGED TO ANY OF THE FOLLOWING GROUPS, A FIRE ALARM SYSTEM AND/OR AN AUTOMATIC FIRE DETECTION SYSTEM SHALL BE INSTALLED THROUGHOUT THE BUILDING IN ACCORDANCE WITH SECTION 907 OF THE BUILDING SUBCODE UNLESS THE PROPOSED USE IS SEPARATED FROM THE OTHER USE(S) IN THE BUILDING BY A FIRE BARRIER HAVING A FIRE RESISTANCE RATING IN ACCORDANCE WITH TABLE 707.3.10 OF THE BUILDING SUBCODE IN WHICH CASE ONLY THE PORTION CHANGED SHALL COMPLY; MIXED OCCUPANCIES SHALL USE THE HIGHEST APPLICABLE RATING FROM TABLE 707.3.10. (FOR PURPOSES OF APPLYING THIS SECTION, HORIZONTAL SEPARATION SHALL NOT BE CONSIDERED.)
1. GROUP A: A MANUAL OR AUTOMATIC FIRE ALARM SYSTEM SHALL BE INSTALLED AND MAINTAINED AS REQUIRED BY SECTION 907.2.1 OF THE BUILDING SUBCODE.
2. GROUP B: A MANUAL FIRE ALARM SYSTEM SHALL BE INSTALLED AND MAINTAINED AS REQUIRED BY SECTION 907.2.2 OF THE BUILDING SUBCODE.
4. GROUP F: A MANUAL FIRE ALARM SYSTEM SHALL BE INSTALLED AND MAINTAINED AS REQUIRED BY SECTION 907.2.4 OF THE BUILDING SUBCODE.
11. GROUP S: A MANUAL FIRE ALARM SYSTEM SHALL BE INSTALLED AND MAINTAINED AS REQUIRED BY SECTION 907.2.10 OF THE BUILDING SUBCODE. (FIRE)

(k) STRUCTURAL REQUIREMENTS: THE FOLLOWING STRUCTURAL REQUIREMENTS SHALL APPLY IN CHANGES OF USE:

TABLE K
STRUCTURAL LOAD CATEGORIES

LOAD CATEGORY	USE OR CHARACTER OF USE
1 (HIGHEST)	F-1, F-2, S-1, S-2, STACK AREAS IN LIBRARIES, STAGES AND PLATFORMS, AREAS SUBJECT TO VEHICULAR LOADS, QUEUING AREAS
2	ALL LOADING CONDITIONS NOT LISTED IN CATEGORY 1 OR 3
3 (LOWEST)	B, E, I-1, I-2, I-3, I-4, R-1, R-2, R-3, R-4, R-5

1. WHEN THE USE OR THE CHARACTER OF USE OF A BUILDING IS CHANGED TO A HIGHER LOAD CATEGORY AS SHOWN IN TABLE K ABOVE, THEN THE STRUCTURE SHALL BE CAPABLE OF SUPPORTING THE LOAD REQUIREMENT FOR THE NEW USE OR CHARACTER OF USE AS SPECIFIED IN TABLE 1607.1 OF THE BUILDING SUBCODE.
i. IF THE BUILDING SUBCODE OFFICIAL DETERMINES THAT THE NUMBER OF OCCUPANTS OR THE PLACEMENT AND WEIGHT OF FURNITURE AND EQUIPMENT CAN BE CONTROLLED BY THE OCCUPANTS, THE AREAS DESIGNED FOR THE REDUCED LIVE LOAD SHALL BE POSTED WITH THE APPROVED LIVE LOAD. PLACARDS STATING THE ALLOWABLE LIVE LOADS SHALL BE POSTED. PLACARDS MAY STATE LOADS IN FORMS USABLE BY THE OCCUPANTS, IN ADDITION TO POSTING THE ALLOWABLE LOAD IN POUNDS PER SQUARE FOOT. SUCH INFORMATION SHALL BE DEVELOPED BY A LICENSED DESIGN PROFESSIONAL AND BE APPROVED BY THE SUBCODE OFFICIAL.
(1) ANALYSIS AND TEST METHODS FOR EVALUATION OF EXISTING STRUCTURAL MEMBERS SHALL USE METHODS SPECIFIED IN THE CODE IN EFFECT AT THE TIME THE BUILDING WAS ORIGINALLY CONSTRUCTED OR OTHER STANDARDS AS APPROVED BY THE SUBCODE OFFICIAL.
ii. THE CORRIDOR AND LOBBY LOADING REQUIREMENTS OF TABLE 1607.1 SHALL BE MET ONLY IF THE CORRIDOR EXCEEDS SIX FEET IN WIDTH OR IF THE LOBBY OR CORRIDOR AREA IS USED FOR QUEUING PURPOSES.
2. WHERE THE USE OR CHARACTER OF USE WITHIN AN EXISTING BUILDING IS CHANGED TO AN EQUAL OR LOWER LOAD CATEGORY AS SHOWN IN TABLE K ABOVE, THEN THE EXISTING STRUCTURE MAY BE USED WITHOUT MODIFICATION, PROVIDED THAT THE BUILDING IS STRUCTURALLY SOUND AND IN GOOD STRUCTURAL REPAIR.
3. WHEN A BUILDING IS RECLASSIFIED INTO ONE OF THE FOLLOWING OCCUPANCIES, THE BUILDING SHALL COMPLY WITH THE SEISMIC DESIGN REQUIREMENTS OF SECTION 1613 OF THE BUILDING SUBCODE: FIRE, RESCUE AND POLICE STATIONS; GROUP I-2 HAVING SURGERY OR EMERGENCY TREATMENT FACILITIES; EMERGENCY PREPAREDNESS CENTERS; POST-EARTHQUAKE RECOVERY VEHICLE GARAGES; POST-EARTHQUAKE SHELTERS; POWER-GENERATING STATIONS AND OTHER UTILITIES REQUIRED AS EMERGENCY BACKUP FACILITIES; PRIMARY COMMUNICATION FACILITIES; HIGHLY TOXIC MATERIALS AS DEFINED BY SECTION 307 OF THE BUILDING SUBCODE WHERE THE QUANTITY OF MATERIAL EXCEEDS THE EXEMPT AMOUNT AS PER SECTION 307.1 OF THE BUILDING SUBCODE. (BUILDING)

DISCUSSION:
USE GROUPS S-1 AND S-2 HAS BEEN INTRODUCED INTO THE PROJECT'S SCOPE

(l) PLUMBING REQUIREMENTS: WHEN THE CHARACTER OF THE USE OF A BUILDING OR PORTION OF A BUILDING IS CHANGED, THE FOLLOWING PLUMBING PROVISIONS SHALL APPLY:
1. THE FIXTURE REQUIREMENTS FOR THE PROPOSED NEW USE SHALL COMPLY WITH THE BASIC REQUIREMENTS FOR THAT USE.

(m) ELECTRICAL REQUIREMENTS: THE FOLLOWING ELECTRICAL REQUIREMENTS SHALL APPLY IN CHANGES OF USE:
1. WHEN THE CHARACTER OF THE USE OF A BUILDING OR PORTION THEREOF IS CHANGED TO ONE OF THE FOLLOWING SPECIAL OCCUPANCIES AS DESCRIBED AT CHAPTER 5 OF THE ELECTRICAL SUBCODE, THE ELECTRICAL WIRING AND EQUIPMENT OF THE BUILDING OR PORTION THEREOF THAT CONTAINS THE PROPOSED USE SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE ELECTRICAL SUBCODE REGARDLESS OF WHETHER A CHANGE OF GROUP IS INVOLVED:

viii. ASSEMBLY OCCUPANCIES;

(n) MECHANICAL REQUIREMENTS: WHEN THE CHARACTER OF THE USE OF A BUILDING IS CHANGED, THE FOLLOWING MECHANICAL PROVISIONS SHALL APPLY:
1. ALL SPACES INTENDED FOR HUMAN OCCUPANCY SHALL BE PROVIDED WITH NATURAL OR MECHANICAL VENTILATION. A BUILDING INTENDED TO BE USED AS A PUBLIC SCHOOL SHALL BE MECHANICALLY VENTILATED.
i. SPACES INTENDED TO BE NATURALLY VENTILATED SHALL BE PROVIDED WITH OPENABLE DOORS, WINDOWS, LOUVERS OR OTHER OPENINGS TO THE OUTDOORS. THE MINIMUM OPENABLE AREA TO THE OUTDOORS SHALL BE FOUR PERCENT OF THE FLOOR AREA BEING VENTILATED. WHERE ROOMS WITHOUT OPENINGS TO THE OUTDOORS ARE VENTILATED THROUGH AN ADJOINING ROOM, THE UNOBSTRUCTED OPENING TO THE ADJOINING ROOM SHALL BE AT LEAST EIGHT PERCENT OF THE FLOOR AREA OF THE INTERIOR ROOM OR SPACE, BUT NOT LESS THAN 25 SQUARE FEET. THE VENTILATION OPENINGS TO THE OUTDOORS SHALL BE BASED ON THE TOTAL FLOOR AREA BEING VENTILATED.
ii. SPACES INTENDED TO BE MECHANICALLY VENTILATED SHALL COMPLY WITH THE FOLLOWING:
(1) IF THE OCCUPANCY OF A BUILDING IS CHANGED AND THE NEW OCCUPANCY WOULD REQUIRE THE SAME OR A LESSER AMOUNT OF OUTDOOR AIR BASED ON THE EQUATIONS BELOW, NO CHANGE TO THE MECHANICAL VENTILATION SYSTEM IS REQUIRED.
(2) IF THE OCCUPANCY OF A BUILDING IS CHANGED AND THE NEW OCCUPANCY WOULD REQUIRE A GREATER AMOUNT OF OUTDOOR AIR BASED ON THE EQUATIONS BELOW, THE HVAC SYSTEM SHALL BE UPGRADED TO SATISFY THE REQUIREMENTS OF TABLE 403.3.1.1 IN THE MECHANICAL SUBCODE FOR THE NEW OCCUPANCY.
(5) WHEN THE GROUP OF A BUILDING IS CHANGED TO B OR E AND THE BUILDING IS A CLASS ONE OR CLASS TWO BUILDING, A TEST AND BALANCE REPORT SHALL BE SUBMITTED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY. (BUILDING)

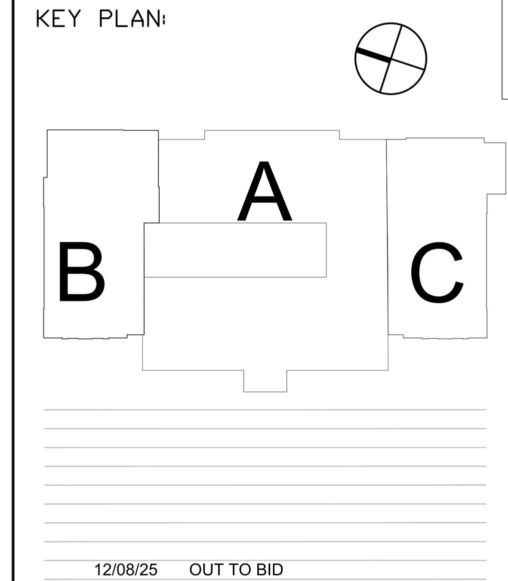
2. NOT APPLICABLE
3. ALL NEWLY-INTRODUCED DEVICES, EQUIPMENT OR OPERATIONS THAT PRODUCE AIRBORNE PARTICULATES, ODORS, FUMES, SPRAYS, VAPORS, SMOKE OR GASES IN SUCH QUANTITIES AS TO BE IRRITATING OR INJURIOUS TO HEALTH SHALL BE PROVIDED WITH LOCAL EXHAUST IN ACCORDANCE WITH SECTION 502 OF THE MECHANICAL SUBCODE. (BUILDING)

REFER TO TABLE N OUTDOOR AIR RATES BASD ON OCCUPANCY TYPE FROM THE REHAB CODE.

(o) ACCESSIBILITY REQUIREMENTS: THE FOLLOWING ACCESSIBILITY REQUIREMENTS SHALL APPLY IN CHANGES OF USE:
1. NONRESIDENTIAL BUILDINGS AND BUILDINGS OF USE GROUP R-1.
i. THE CHANGE OF USE OF A BUILDING OF 10,000 SQUARE FEET OR MORE TOTAL GROSS ENCLOSED FLOOR AREA SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF CHAPTER 11 OF THE BUILDING SUBCODE.
ii. THE CHANGE OF USE OF A BUILDING OF LESS THAN 10,000 SQUARE FEET TOTAL GROSS ENCLOSED FLOOR AREA SHALL BE EXEMPT FROM THE PROVISIONS OF CHAPTER 11 OF THE BUILDING SUBCODE, EXCEPT AS FOLLOWS:
(1) AN ALTERATION PROJECT UNDERTAKEN IN CONNECTION WITH THE CHANGE OF USE OF A SMALL BUILDING SHALL PROVIDE ACCESSIBILITY AS REQUIRED BY N.J.A.C. 5:23-6.6.
(2) A RECONSTRUCTION PROJECT UNDERTAKEN IN CONNECTION WITH THE CHANGE OF USE OF A SMALL BUILDING SHALL PROVIDE ACCESSIBILITY AS REQUIRED BY N.J.A.C. 5:23-6.7.
iii. IN A BUILDING OF ANY SIZE, WHERE THERE IS A CHANGE OF USE OF AN AREA OF 10,000 SQUARE FEET OR MORE, THE PROPOSED NEW USE SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 11 OF THE BUILDING SUBCODE.
iv. IN A BUILDING OF ANY SIZE, WHERE THERE IS A CHANGE OF USE OF AN AREA OF LESS THAN 10,000 SQUARE FEET, THE PROPOSED NEW USE SHALL BE EXEMPT FROM THE PROVISIONS OF CHAPTER 11 OF THE BUILDING SUBCODE, EXCEPT AS FOLLOWS:
(1) A RENOVATION PROJECT UNDERTAKEN IN CONNECTION WITH THE CHANGE OF USE OF A SMALL BUILDING SHALL PROVIDE ACCESSIBILITY AS REQUIRED BY N.J.A.C. 5:23-6.5.
(2) AN ALTERATION PROJECT UNDERTAKEN IN CONNECTION WITH THE CHANGE OF USE OF A SMALL BUILDING SHALL PROVIDE ACCESSIBILITY AS REQUIRED BY N.J.A.C. 5:23-6.6.
(3) A RECONSTRUCTION PROJECT UNDERTAKEN IN CONNECTION WITH THE CHANGE OF USE OF A SMALL BUILDING SHALL PROVIDE ACCESSIBILITY AS REQUIRED BY N.J.A.C. 5:23-6.7. (BUILDING)

KEY PLAN:

ANNEX



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Revisions / Issues

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CS-002c
Sheet 0 of 000

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EGRESS LEGEND

- ROOM IDENTIFICATION TAG
- CLOSET / A-111A / 100 S.F / X OCCUPANTS
  - ROOM NAME
  - ROOM NUMBER
  - ROOM CALCULATED SQUARE FOOTAGE AND NET SQUARE FOOTAGE
  - NUMBER OF ROOM OCCUPANTS
- TRAVEL DISTANCE DELINEATION
- DIRECTION OF TRAVEL
- ## — CUMULATIVE EGRESS LOAD NUMBER
- (##) — DISTANCE TO NEAREST EXIT
- ### / ### — ACTUAL DOOR LOAD / DOOR CAPACITY
- STAIR ## CAP. # FL: — STAIR AND FLOOR NUMBER
  - CAPACITY: ### — STAIR CAPACITY
  - ACTUAL: ### — ACTUAL STAIR LOAD
- 120 MINUTE RATED WALL
- 60 MINUTE RATED WALL
- 180 MINUTE RATED WALL

FIRE EXTINGUISHER COUNT AND LOCATIONS

BASED ON ONE (1) FIRE EXTINGUISHER FOR EACH 2,500 S.F. OF FLOOR AREA OR FRACTION THEREOF, SO DISTRIBUTED THAT ONE (1) EXTINGUISHER SHALL NOT BE MORE THAN 75 FEET TRAVEL DISTANCE FROM ANY POINT IN THE CORRIDOR.

FIRST FLOOR

MARK	DESCRIPTION	LOCATION	PROPOSED
ETR	EXISTING EXTINGUISHER / CABINET TO REMAIN	SEE PLAN THIS SHEET	2 ETR
NEW	NEW CABINET & EXTINGUISHER	SEE PLAN THIS SHEET	6 NEW

BASEMENT

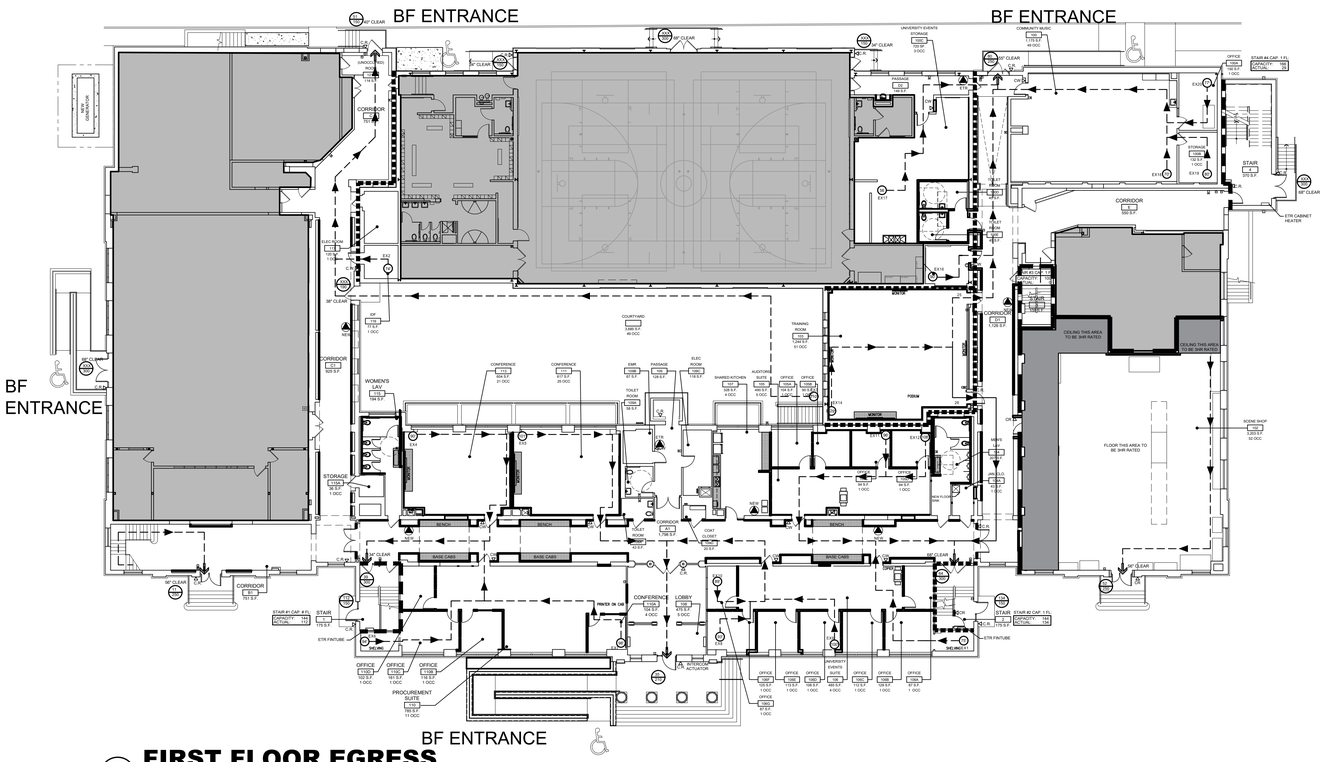
MARK	DESCRIPTION	LOCATION	PROPOSED
ETR	EXISTING EXTINGUISHER / CABINET TO REMAIN	SEE PLAN THIS SHEET	0 ETR
NEW	NEW CABINET & EXTINGUISHER	SEE PLAN THIS SHEET	5 NEW

PATH OF TRAVEL SCHEDULE - BASEMENT (200' W/O SPRINKLER) (300' W/ SPRINKLER)

MARK	LEVEL	LENGTH	MAX TRAVEL DISTANCE	MEETS CODE
EX01	LOWER LEVEL	206'	200'	YES
EX02	LOWER LEVEL	160'	200'	YES
EX03	LOWER LEVEL	172'	200'	YES
EX04	LOWER LEVEL	120'	200'	YES
EX05	LOWER LEVEL	90'	200'	YES
EX06	LOWER LEVEL	83'	200'	YES
EX07	LOWER LEVEL	62'	200'	YES
EX08	LOWER LEVEL	60'	200'	YES
EX09	LOWER LEVEL	57'	200'	YES
EX010	LOWER LEVEL	75'	200'	YES
EX011	LOWER LEVEL	52'	200'	YES
EX012	LOWER LEVEL	53'	200'	YES

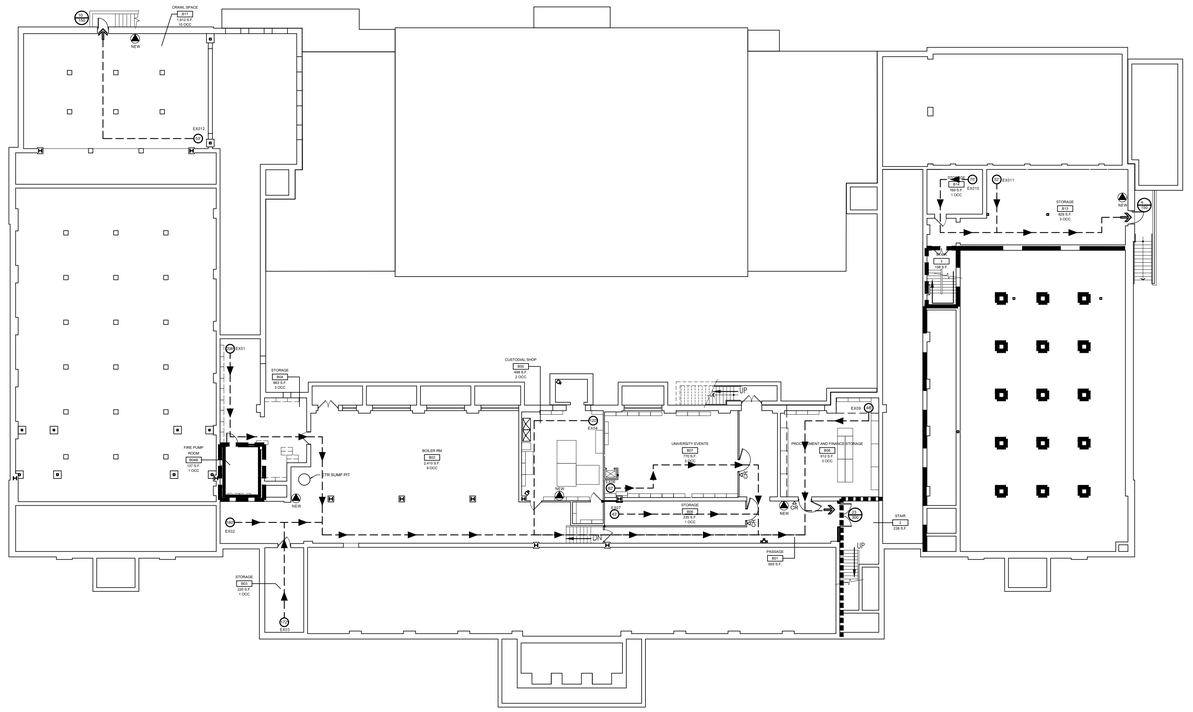
PATH OF TRAVEL SCHEDULE - FIRST FLOOR (200' W/O SPRINKLER) (300' W/ SPRINKLER)

MARK	LEVEL	LENGTH	MAX TRAVEL DISTANCE	MEETS CODE
EX1	FIRST FLOOR	75'	200'	YES
EX2	FIRST FLOOR	74'	200'	YES
EX3	FIRST FLOOR	210'	200'	YES
EX4	FIRST FLOOR	90'	200'	YES
EX5	FIRST FLOOR	101'	200'	YES
EX6	FIRST FLOOR	94'	200'	YES
EX7	FIRST FLOOR	98'	200'	YES
EX8	FIRST FLOOR	93'	200'	YES
EX9	FIRST FLOOR	100'	200'	YES
EX10	FIRST FLOOR	89'	200'	YES
EX11	FIRST FLOOR	96'	200'	YES
EX12	FIRST FLOOR	104'	200'	YES
EX13	FIRST FLOOR	31'	200'	YES
EX14	FIRST FLOOR	129'	200'	YES
EX15	FIRST FLOOR	86'	200'	YES
EX16	FIRST FLOOR	90'	200'	YES
EX17	FIRST FLOOR	76'	200'	YES
EX18	FIRST FLOOR	70'	200'	YES
EX19	FIRST FLOOR	80'	200'	YES
EX20	FIRST FLOOR	77'	200'	YES
EX21	NOT USED			



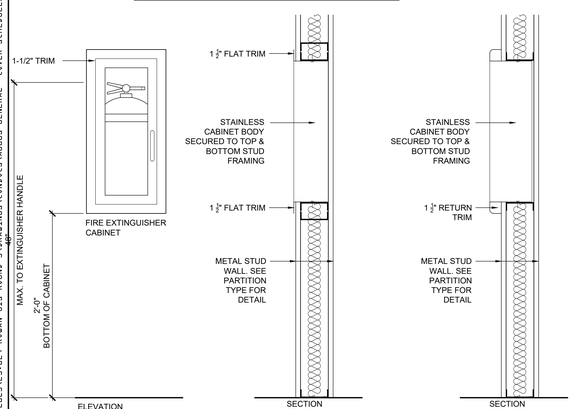
2 FIRST FLOOR EGRESS

SCALE: 1/16" = 1'-0"

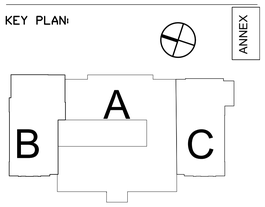


1 LOWER LEVEL EGRESS

SCALE: 1/16" = 1'-0"



KEY PLAN



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	12/03/25	DCA Submission

Revisions / Issues

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NJ RA # 15023, NY RA 027416, PA RA 405474

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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date: 04/24/2025
Drawn By: TC
Checked By: KG

Sheet Name:
BASEMENT AND FIRST LEVEL EGRESS PLANS

Sheet No:
CS-003
Sheet 0 of 000

P:\2025\25.024 ROWAN GIS ROUND 5\DRAWINGS\CONDOCS\ADDDS GENERAL -COVER SCHEDULES PHASING ECT\

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EGRESS LEGEND

- CLOSET / A-111A / 100 S.F. / X OCCUPANTS — ROOM IDENTIFICATION TAG
- ROOM NAME
- ROOM NUMBER
- ROOM CALCULATED SQUARE FOOTAGE AND NET SQUARE FOOTAGE
- NUMBER OF ROOM OCCUPANTS
- TRAVEL DISTANCE DELINEATION
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- STAIR ## CAP. # FL: — STAIR AND FLOOR NUMBER
- CAPACITY: ### — STAIR CAPACITY
- ACTUAL: ### — ACTUAL STAIR LOAD
- MAXIMUM TRAVEL DISTANCE:
- 120 MINUTE RATED WALL
- 60 MINUTE RATED WALL

FIRE EXTINGUISHER COUNT AND LOCATIONS

BASED ON ONE (1) FIRE EXTINGUISHER FOR EACH 2,500 S.F. OF FLOOR AREA OR FRACTION THEREOF, SO DISTRIBUTED THAT ONE (1) EXTINGUISHER SHALL NOT BE MORE THAN 75 FEET TRAVEL DISTANCE FROM ANY POINT IN THE CORRIDOR.

THIRD FLOOR

MARK	DESCRIPTION	LOCATION	PROPOSED
ETR	EXISTING EXTINGUISHER / CABINET TO REMAIN	SEE PLAN THIS SHEET	2 ETR
NEW	NEW CABINET & EXTINGUISHER	SEE PLAN THIS SHEET	2 NEW

SECOND FLOOR

MARK	DESCRIPTION	LOCATION	PROPOSED
ETR	EXISTING EXTINGUISHER / CABINET TO REMAIN	SEE PLAN THIS SHEET	3 ETR
NEW	NEW CABINET & EXTINGUISHER	SEE PLAN THIS SHEET	3 NEW

PATH OF TRAVEL SCHEDULE - SECOND FLOOR

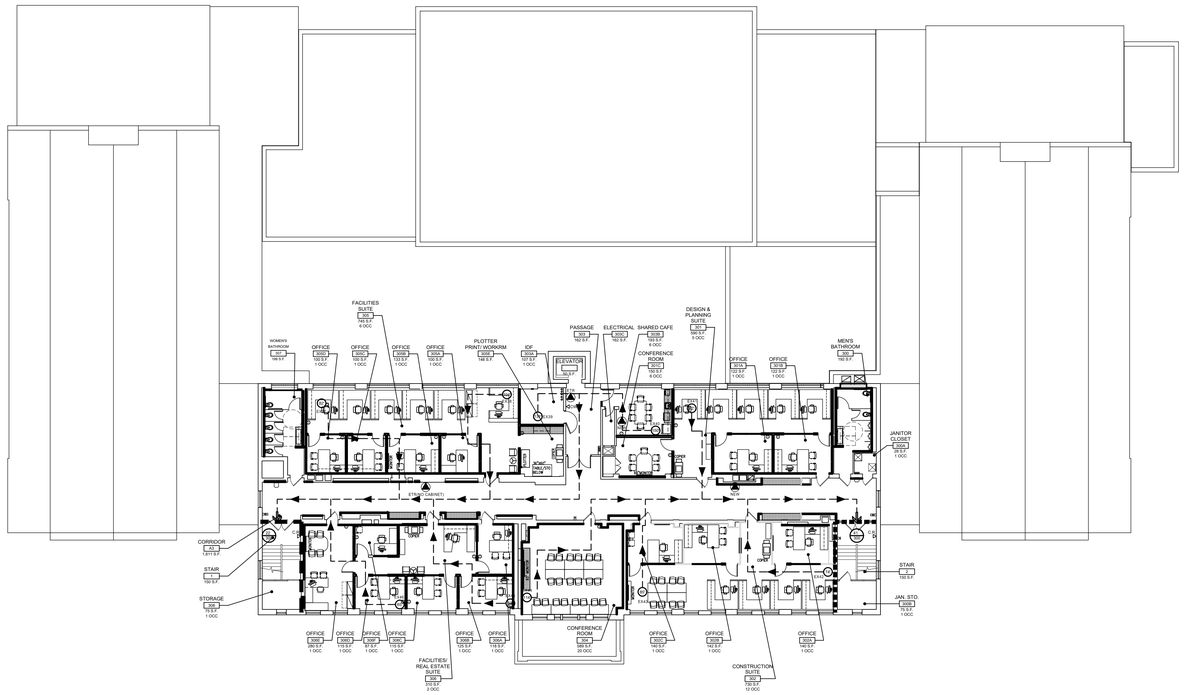
(200' W/O SPRINKLER) (300' W/ SPRINKLER)

MARK	LEVEL	LENGTH	MAX TRAVEL DISTANCE	MEETS CODE
EX22	SECOND FLOOR	130'	200'	YES
EX23	SECOND FLOOR	60'	200'	YES
EX24	SECOND FLOOR	45'	200'	YES
EX25	SECOND FLOOR	80'	200'	YES
EX26	SECOND FLOOR	90'	200'	YES
EX27	SECOND FLOOR	122'	200'	YES
EX28	SECOND FLOOR	117'	200'	YES
EX29	SECOND FLOOR	93'	200'	YES
EX30	SECOND FLOOR	68	200'	YES
EX31	SECOND FLOOR	46'	200'	YES
EX32	SECOND FLOOR	79'	200'	YES
EX33	SECOND FLOOR	90'	200'	YES
EX34	SECOND FLOOR	118'	200'	YES
EX35	SECOND FLOOR	94'	200'	YES
EX36	SECOND FLOOR	64'	200'	YES

PATH OF TRAVEL SCHEDULE - THIRD FLOOR

(200' W/O SPRINKLER) (300' W/ SPRINKLER)

MARK	LEVEL	LENGTH	MAX TRAVEL DISTANCE	MEETS CODE
EX37	THIRD FLOOR	82'	200'	YES
EX38	THIRD FLOOR	104'	200'	YES
EX39	THIRD FLOOR	131'	200'	YES
EX40	THIRD FLOOR	150'	200'	YES
EX41	THIRD FLOOR	72'	200'	YES
EX42	THIRD FLOOR	74'	200'	YES
EX43	THIRD FLOOR	85'	200'	YES
EX44	THIRD FLOOR	114'	200'	YES
EX45	THIRD FLOOR	93'	200'	YES
EX46	THIRD FLOOR	65'	200'	YES



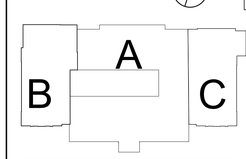
2 THIRD FLOOR EGRESS

SCALE: 1/16" = 1'-0"

1 SECOND FLOOR EGRESS

SCALE: 1/16" = 1'-0"

KEY PLAN:



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Drawn By: TC
Checked By: KG

Sheet Name:

SECOND AND THIRD LEVEL EGRESS PLANS

Sheet No:

CS-004

Sheet 0 of 000

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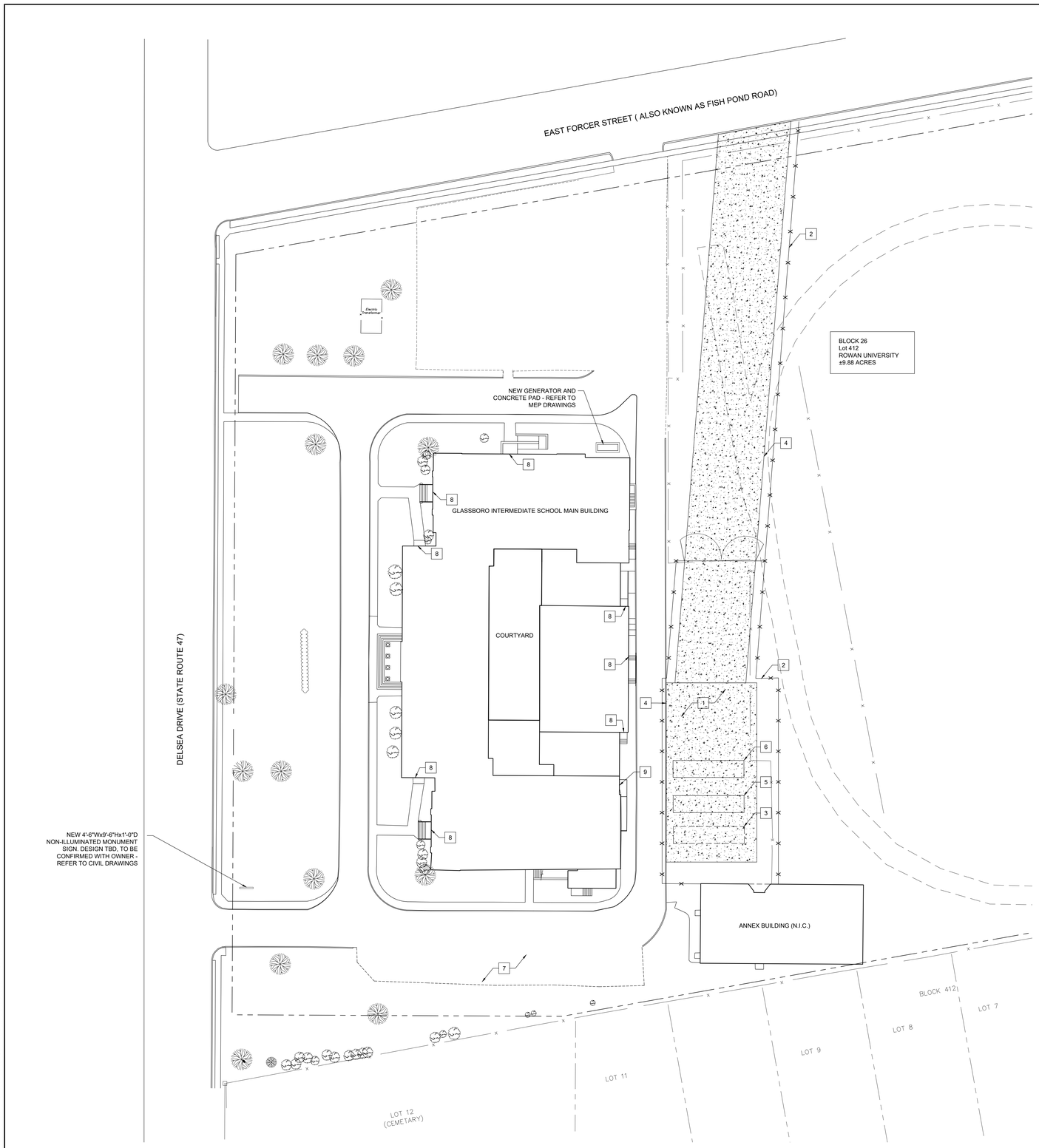


N

1 Site Staging Plan

SCALE: 1/32" = 1'-0"

SITE STAGING NOTES:

1. CONTRACTOR STAGING AREA TO BE LOCATED IN THE REAR OF THE MAIN BUILDING OVER THE SITE OF REMOVED BUILDINGS. UPON COMPLETION OF WORK, ALL EQUIPMENT, CONSTRUCTION DEBRIS AND TRACKING PAD ARE TO BE REMOVED.
2. TEMPORARY CHAIN-LINK FENCE. TO BE MAINTAINED THROUGH ALL PHASES OF WORK. SEE SPECIFICATION SECTION 015000 "TEMPORARY FACILITIES AND CONTROLS" FOR FENCE TYPE.
3. DUMPSTER LOCATION
4. CONTRACTOR ACCESS TO TRACKING PAD - TO CONSIST OF 1-1/2 -INCH CRUSHED STONE.
5. CONSTRUCTION TRAILER - SEE SPECIFICATION SECTION 015000 "TEMPORARY FACILITIES AND CONTROLS" FOR REQUIREMENTS.
6. STORAGE TRAILER (NO MORE THAN ONE STORAGE TRAILER SHALL BE KEPT ON SITE AT A TIME).
7. CONTRACTOR PARKING AREA(S). CONTRACTORS WILL NOT BE PERMITTED TO PARK IN OTHER PARKING LOTS INDICATED ON THIS DRAWING. CONTRACTOR SHALL REPLACE CURB AND PAVING WHICH MAY BE DAMAGED DURING THE COURSE OF CONSTRUCTION. VIDEO AND / OR PHOTOGRAPH PRIOR TO USING AS A PARKING AREA. THIS AREA IS NOT FOR HEAVY EQUIPMENT, CONSTRUCTION MATERIAL, CONSTRUCTION DEBRIS OR STAGING. IT SHALL BE USED FOR PASSENGER VEHICLES PARKING ONLY.
8. EXISTING DOORS: THESE DOORS WILL BE LOCKED AT ALL TIMES FROM THE EXTERIOR. THEY WILL NOT SERVE AS ENTRY POINTS FOR ANY OF THE CONTRACTORS. DOORS ARE NOT TO BE PROPPED OPEN AT ANY TIME, FOR ANY REASON.
9. CONTRACTOR ENTRANCE POINT AND SIGN-IN AREA: ALL CONTRACTORS WILL BE REQUIRED TO ENTER THE BUILDING AND SIGN IN (AND OUT) AT THIS LOCATION PRIOR TO BEGINNING ANY INTERIOR WORK, OR CIRCULATING THROUGHOUT THE BUILDING. CONTRACTORS SHALL FURNISH AND WEAR IDENTIFICATION BADGES AT ALL TIMES WHILE ON SITE OR IN THE BUILDING. SEE SPECIFICATION SECTION 011000 "SUMMARY" FOR BALANCE OF INFORMATION AND REQUIREMENTS REGARDING WORK RESTRICTIONS AND ENTERING THE BUILDING.

ITEMS OF WORK AND REQUIREMENTS:

A. THE CONTRACTOR SHALL THOROUGHLY REVIEW ALL DRAWINGS, SPECIFICATIONS AND PERMITTED HOURS OF WORK.

B. PERMITTED HOURS OF WORK:MONDAY-FRIDAY (8:00 AM TO 5:00 PM)

C. PRIOR TO PROCEEDING WITH ANY WORK, THE CONTRACTORS SHALL REVIEW FOR APPROVAL BUILDING ACCESS AND WORK TIME PERIODS WITH:

THE IDENTIFIED ROWAN PROJECT MANAGER
DIVISION OF FACILITIES, PLANNING & OPERATIONS
SHPEEN HALL
40 NORTH ACADEMY STREET
GLASSBORO, NJ 08028

D. IF ASBESTOS MATERIAL IS ENCOUNTERED DURING THE WORK OF THIS CONTRACT, IMMEDIATELY NOTIFY OWNER IN WRITING. DESCRIBE THE ASBESTOS LOCATION AND QUANTITY SO THAT ARRANGEMENTS CAN BE MADE BY THE OWNER TO ABATE THE CONDITIONS.

THE INTENTION IS TO RENOVATE THE EXISTING GLASSBORO INTERMEDIATE SCHOOL AS WELL AS THE SITE.

THE WORK WILL INVOLVE COMPLETE REMOVALS OF LIGHTING, DETECTION SYSTEMS, AUDIO SYSTEMS, CEILINGS, INTERIOR WALLS, AND SURFACE FINISHES.

THE NEW INSTALLATIONS WILL INVOLVE LIGHTING, CEILINGS, WALLS, FINISHES, AND OTHER FURNISHINGS.

ALL ASPECTS OF THIS WORK ARE AS INDICATED/ INFERRED ON THE CONTRACT DOCUMENTS AND SPECIFICATIONS.

E. CONDUCT ALL DEMOLITION OPERATIONS IN A MANNER TO PREVENT DAMAGE TO POSSIBLY HIDDEN STRUCTURAL ELEMENTS (COLUMNS, BEAMS, ETC.)

IF UNCOVERED, ANY PREVIOUSLY HIDDEN STRUCTURAL ELEMENTS ARE TO REMAIN INTACT. CONTACT ARCHITECT IMMEDIATELY.

F. TEMPORARY LIGHTING IS TO BE PROVIDED BY CONTRACTOR. LIGHT LEVELS TO BE ADEQUATE FOR THE SAFE PERFORMANCE OF DEMOLITION AND CONSTRUCTION ACTIVITIES.

G. GENERAL CONTRACTOR SHALL PROVIDE DUMPSTER, LOCATION TO BE COORDINATED WITH OWNER.

ANY HOLES CREATED IN WALLS, FLOOR, CEILING DURING THE DEMOLITION OR CONSTRUCTION OF THIS PROJECT SHALL BE PATCHED AND FINISHED MATCHING EXISTING ADJACENT CONDITIONS AND FIRE RATING.

H. NOTIFY THE ARCHITECT IF EXISTING PLUMBING LINES, DUCTWORK, AND ELECTRICAL LINES SCHEDULED FOR REMOVAL ARE REQUIRED FOR SERVICING OTHER AREAS OF THE BUILDING. DO NOT REMOVE ABOVE MENTIONED EQUIPMENT WITHOUT INSTRUCTIONS FROM THE ARCHITECT.

REFERENCE MECHANICAL, ELECTRICAL, PLUMBING DRAWINGS FOR ADDITIONAL DEMOLITION NOTES.

ALL CORRIDOR WALLS, FLOORING AND ANY ELEMENTS TO REMAIN ARE TO BE PROTECTED FROM DAMAGE. GENERAL CONTRACTOR SHALL SECURE AND COVER TO PROTECT.

IT IS THE INTENT OF THE WORK RELATED TO THESE CONTRACT DOCUMENTS TO MAINTAIN ELECTRIC POWER TO THE BUILDING.

I. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL, TO THE OWNER AND ARCHITECT, THE INTENDED 'SEQUENCE OF WORK' RELATED TO THE WORK DESCRIBED HEREIN. THE SUBMISSION SHALL INCLUDE A WRITTEN DESCRIPTION AND / OR LISTING, KEY PLANS WITH WORK START POINTS, WORK SEQUENCING WITH DATES, POTENTIAL INFRASTRUCTURE INTERRUPTIONS, DUST PROTECTION DESCRIPTIONS AND / OR DRAWINGS.

K. PRIOR TO THE START OF WORK, IN EACH ROOM AREA, THE CONTRACTOR SHALL VERIFY THAT ALL LOOSE FURNITURE, PICTURES, FLOOR MATS, FLAGS, PLAQUES, DIRECTORIES, ROOM SIGNAGE, PLANTS, ETC. HAVE BEEN REMOVED FROM EACH ROOM AREA. IF THIS HAS NOT BEEN DONE, NOTIFY THE OWNER IMMEDIATELY. DO NOT PROCEED WITH WORK UNTIL ROOM AREA IS CLEAR AND EMPTY OF ANY / ALL ITEMS DESCRIBED HEREIN.

L. THE GENERAL CONTRACTOR SHALL OBTAIN AND ADHERE TO ANY/ALL WRITTEN GUIDELINES CONCERNING MATERIAL SEPARATION PROCEDURES FOR DUMP SITE DISPOSAL BY AGENCIES HAVING JURISDICTION.

M. THE GENERAL CONTRACTOR, DURING THE PROCESS OF ANY AND ALL WORK RELATED TO THIS PROJECT, SHALL PROTECT ALL SITE ACCESS POINTS AND EXISTING SITE.

N. ALL MATERIALS, EQUIPMENT AND FASTENING DEVICES IDENTIFIED TO BE REMOVED SHALL BE DISPOSED OF IN LEGAL DUMPSITES AND/OR UTILIZING LEGAL PROCEDURES APPROVED BY ALL AGENCIES HAVING JURISDICTION CONCERNING THE WORK AND LOCATION OF THIS CONTRACT.

O. THE CONTRACTOR AND SUBCONTRACTORS SHALL OBTAIN ALL CONSTRUCTION PERMITS AND PAY ALL FEES RELATED TO SAME PERMITS CONCERNING EVERY ASPECT OF THE WORK DESCRIBED HEREIN.

P. THE CONTRACTOR SHALL PROVIDE AND INSTALL DUST PROTECTION. THE PLAN LOCATION AND CONFIGURATION OF SAME, SHALL BE FIELD LOCATED AND APPROVED BY THE OWNER.

Q. AT THE COMPLETION OF EACH WORK DAY, CONCERNING THE DEMOLITION AND REMOVALS INDICATED ON THE DRAWINGS, BROOM CLEAN AND VACUUM ALL FLOOR AND WALL SURFACES WITHIN AND OUTSIDE AREAS OF WORK.

R. THE CONTRACTOR AND / OR CONTRACTORS SHALL PROVIDE ALL LABOR, EQUIPMENT AND MATERIALS REQUIRED TO INSTALL AND COMPLETE ALL THE WORK DESCRIBED IN THE CONTRACT DOCUMENT DRAWINGS AND SPECIFICATIONS.

S. ALL NEW MATERIALS AND ASSEMBLIES REQUIRED AND / OR DESCRIBED IN THE DRAWINGS, DRAWING NOTES AND SPECIFICATIONS TO "MATCH EXISTING" OR DESCRIBED AS "MATCHING" SHALL BE THE EXACT OR SAME MATERIAL AND ASSEMBLY, IN EVERY RESPECT.

T. THE CONTRACTOR(S), AFTER NOTIFYING THE OWNER, SHALL PERFORM REQUIRED SYSTEM SHUT-OFF AND / OR SHUTDOWNS CONCERNING THE ELECTRICAL SYSTEM, FIRE ALARM AND DETECTION SYSTEMS RELATED TO SAME.

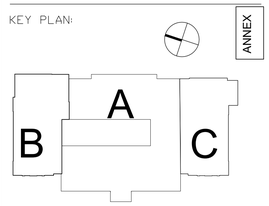
U. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC) AND THE LOCAL UTILITY COMPANY.

V. ALL EXISTING MECHANICAL, I.T. CIRCUITING AND ELECTRICAL LINES OR CIRCUITS ATTACHED TO EXISTING ASSEMBLIES AND EQUIPMENT SLATED FOR REMOVAL, SHALL BE PROTECTED, MAINTAINED AND REATTACHED OR SECURED TO NEW WORK, EXISTING ADJACENT SURFACES, OR NEW EQUIPMENT.

W. PROVIDE AND INSTALL ANY AND ALL REQUIRED TEMPORARY SUPPORT, SHORING, BRACING AND / OR NEEDLING TO STABILIZE AND SUPPORT EXISTING BUILDING FRAMING FOR FLOORS, CEILINGS AND WALLS CONCERNING THE WORK DESCRIBED IN THE CONTRACT DOCUMENTS.

X. AT EXISTING CORRIDOR FLOORS, THE CONTRACTOR SHALL PROVIDE AND INSTALL ¼" THICK SHEET "MASONITE" PROTECTION BOARDS PLACED EDGE-TO-EDGE WITH ALL BUTT JOINTS TAPED TO PROTECT EXISTING SURFACES ADJACENT TO THE CORRIDOR ENTRANCE WORK AREAS.

KEY PLAN:



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ITEMS OF WORK

Sheet No:
A-001
Sheet 001 of 000

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GIS Main Building Door and Frame Schedule

Floor	Door Number	Room Name & Number: To	From	Door Type	Door Material	Fire Rating	Door Width	Door Height	Frame Elevation	Frame Material	Hardware Set	Head Detail	Jamb Detail	Remarks
BASEMENT	B01.1	Passage B01	Stair 2	D4	WD	90 MIN	(2)3'-0"	7'-0"	F5	HM	41			
	B01.2	Boiler Room B02	Passage B01	ETR	ETR		3'-0" +/-	6'-8" +/-	ETR	ETR	20	ETR	ETR	Note #5, PROVIDE NEW CORE
	B01.3	Courtyard	Passage B01	ETR	STEEL		(2)2'-6"	7'-0"	ETR	ETR	20	ETR	ETR	Note #2, PROVIDE 'THIS IS NOT AN EXIT' SIGN, PROVIDE NEW CORE
	B02	Courtyard	Boiler Room B02	ETR	STEEL		(2)2'-6"	7'-0"	ETR	ETR	20	ETR	ETR	PROVIDE 'THIS IS NOT AN EXIT' SIGN, PROVIDE NEW CORE
	B03	Storage B03	Boiler Room B02	ETR	ETR		3'-0" +/-	7'-0" +/-	ETR	ETR	20	ETR	ETR	Note #5, PROVIDE NEW CORE
	B04A	Storage B04	Boiler Room B02	ETR	ETR		3'-0" +/-	7'-0" +/-	ETR	ETR	20	ETR	ETR	Note #5, PROVIDE NEW CORE
	B04B	Fire Pump Room B04B	Boiler Room B02	D1	HM	60 MIN	3'-0"	7'-0"	F1	HM	44	H3	J3	
	B05	Custodial Shop B05	Boiler Room B02	ETR	ETR		3'-0" +/-	7'-0" +/-	ETR	ETR	20	ETR	ETR	Note #5, PROVIDE NEW CORE
	B05.1	Storage	Custodial Shop B05	ETR	ETR		3'-0" +/-	7'-0" +/-	ETR	ETR	20	ETR	ETR	Note #5, PROVIDE NEW CORE
	B06	Storage B06	Passage B01	D1	WD		3'-0"	7'-0"	F1	HM	43	H1	J1	Note #1 CR
	B07	University Events B07	Passage B01	D1	WD		3'-0"	7'-0"	F1	HM	43	H1	J1	Note #1 CR
	B08	Procurement and Finance B08	Passage B01	D1	WD		3'-2"	7'-0"	F1	HM	42	H1	J1	Note #1 CR
	B13.1	Storage B13	Exterior	D1	FRP		3'-0"	7'-0"	ETR	ETR	45	ETR	ETR	Note #5, PROVIDE NEW CORE
	B13.2	Storage B13	Stair 3	ETR	ETR	60 MIN	(2)2'-6" +/-	7'-0" +/-	ETR	ETR	20	ETR	ETR	Note #5, PROVIDE NEW CORE
	B14	Storage B14	Storage B13	ETR	ETR		3'-0" +/-	7'-0" +/-	ETR	ETR	20	ETR	ETR	Note #5, PROVIDE NEW CORE
	B17	Mechanical crawl space B17	Exterior	D1	FRP		2'-6"	6'-6"	ETR	ETR	45	ETR	ETR	Note #5, PROVIDE NEW CORE
FIRST FLOOR	100A	Office 100A	Community Music	ETR	ETR		3'-0"+/-	6'-8" +/-	ETR	ETR	20	ETR	ETR	Note #5, PROVIDE NEW CORE
	100B	Storage 100B	Community Music	ETR	ETR		3'-0"+/-	6'-8" +/-	ETR	ETR	20	ETR	ETR	Note #5, PROVIDE NEW CORE
	100C	University Events Storage	Passage D2	D2	WD		3'-0"	6'-8"	F6.1	HM	46	H1	J1	Note #1 CW, W8x24 plate lintel
	100D	Toilet Room 100D	Passage D1	D1	WD		3'-0"	7'-0"	F1	HM	25	H3	J3	
	100E	Toilet Room 100E	Passage D1	D1	WD		3'-0"	7'-0"	F1	HM	25	H3	J3	
	100.1	Community Music	Corridor D1	D2	WD		3'-0"	6'-8"	ETR	ETR	33	ETR	ETR	Note #1 CW, POST MAX OCCUPANCY SIGN 49 OCCUPANTS, PROVIDE NEW CORE
	100.2	Passage D2	Corridor D1	ETR	ETR	ETR 90 MIN	3'-0"+/-	6'-8" +/-	ETR	ETR	20	ETR	ETR	Note #5, PROVIDE NEW CORE
	100.3	Gym	Passage D2	ETR	ETR		3'-0"+/-	6'-8" +/-	ETR	ETR	20	ETR	ETR	Note #5, PROVIDE NEW CORE
	100.4	Exterior	Corridor D1	ETR	ETR		(1) 3'-8" +/- (1) 1'-3"+/-	7'-0" +/-	ETR	ETR	27	ETR	ETR	Note #1 CR, #2, PROVIDE NEW CORE
	100.5	Closet	Corridor E	ETR	ETR		3'-0" +/-	6'-8" +/-	ETR	ETR	20	ETR	ETR	Note #5, PROVIDE NEW CORE
	100.6	Kitchen	Corridor E	ETR	ETR		3'-4" +/-	6'-8" +/-	ETR	ETR	20	ETR	ETR	Note #5, PROVIDE NEW CORE
	100.7	Stair 4	Corridor E	D2	WD	60 MIN	3'-0"	6'-8"	F1	HM	17	H1	J1	Note #1 CR
	100.8	Exterior	Stair 4	D4	FRP		(2)3'-0"	7'-0"	F3	ALUM	4	H6	J6	Note #1 CR
	100.9	Stair 3	Corridor D1	ETR	ETR	ETR 60 MIN	3'-0" +/-	6'-8" +/-	ETR	ETR	20	ETR	ETR	Note #5, PROVIDE NEW CORE
	100.10	Corridor D1	Corridor A1	D4	WD		(2)3'-0"	7'-0"	F5	HM	18	H3	J3	Note #1 CR
	100.11	Stair 2	Corridor A1	ETR	ETR	ETR 90 MIN	(2)3'-0" +/-	7'-0" +/-	ETR	ETR	30	ETR	ETR	Note #5, PROVIDE NEW CORE
	100.12	Exterior	Stair 2	D6.3	FRP		(1) 3'-0"	7'-0"	F6.1	ALUM	3	H6	J6	Note #1 CR
	100.12A	Stair 2	Basement	D1	WD		3'-0"	7'-0"	F1	HM	17	H1	J1	Note #1 CR, #4
	100.13	Corridor A1	Corridor B1	D4	WD		(2)3'-0"	7'-0"	F5	HM	18	H3	J3	Note #1 CR
	100.14	Stair 1	Corridor A1	ETR	ETR	ETR 60 MIN	3'-0" +/-	7'-0" +/-	ETR	ETR	30	ETR	ETR	Note #5, PROVIDE NEW CORE
	100.15	Stair 1	Corridor A1	ETR	ETR	ETR 60 MIN	3'-0" +/-	7'-0" +/-	ETR	ETR	30	ETR	ETR	Note #5, PROVIDE NEW CORE
	100.16	Stair 1	Exterior	D6.3	FRP		(1) 3'-0"	7'-0"	F6.1	ALUM	3	H6	J6	Note #1 CR
	100.17	Corridor B1	Exterior	D6.2	FRP		(1)3'-0" (1) 2'-0"	7'-0"	F6.2	ALUM	3B	H6	J6	Note #1 CR
	100.18	Corridor C1	Courtyard	ETR	ETR		3'-8" +/-	6'-8" +/-	ETR	ETR	20	ETR	ETR	PROVIDE 'THIS IS NOT AN EXIT' SIGN POST MAX OCCUPANCY SIGN 49 OCCUPANTS, PROVIDE NEW CORE
	100.19	Closet	Corridor C	ETR	ETR		(2)3'-0" +/-	6'-8" +/-	ETR	ETR	20	ETR	ETR	PROVIDE NEW CORE, Note #5
	100.20	.	Passage	ETR	ETR	ETR 90 MIN	3'-0" +/-	6'-8" +/-	ETR	ETR	20	ETR	ETR	PROVIDE NEW CORE, Note #5
	100.21	Corridor C	Exterior	ETR	ETR		3'-8" +/-	7'-2" +/-	ETR	ETR	29	ETR	ETR	Note #1 CR, PROVIDE NEW CORE
	100.22	Corridor D1	Corridor D1	D1	WD	90 MIN	3'-0"	7'-0"	F1	HM	26	H5	J5	PROVIDE PRECAST LINTEL/ DOOR ON HOLD OPEN
	101	MDF Room	Corridor D1	D1	WD	90 MIN	3'-0"	7'-0"	F1	HM	33	H5	J5	Note #1 CW, PROVIDE PRECAST LINTEL
	102.1	Scene Shop 102	Corridor D1	D2	WD	180 MIN	3'-0"	7'-0"	F1	HM	24	H1sim	J1sim	Note #1 CR
	102.2	Scene Shop 102	Exterior	D6.1	FRP		(1)3'-0" (1)2'-0"	7'-0"	F6.2	ALUM	3A	H6	J6	Note #1 CR
	103.1	Training Room 103	Corridor D1	ETR	ETR	ETR 90 MIN	3'-0" +/-	6'-8" +/-	ETR	ETR	23	ETR	ETR	PROVIDE NEW CORE
	103.2	Training Room 103	Corridor D1	D3	WD	90 MIN	3'-0"	6'-8"	F1	HM	22	H1	J1	Note #1 CR, PROVIDE NEW CORE
	104	Men's Lavatory	Corridor A1	ETR	ETR		3'-0" +/-	6'-8" +/-	ETR	ETR	20	ETR	ETR	Note #5, PROVIDE NEW CORE
	104A	Janitor Closet 104A	Corridor A1	ETR	ETR		2'-8" +/-	6'-8" +/-	ETR	ETR	20	ETR	ETR	Note #5, PROVIDE NEW CORE
	105	Auditors Suite 105	Corridor A1	ETR	ETR		3'-0" +/-	6'-8" +/-	ETR	ETR	31	ETR	ETR	Note #1 CW, PROVIDE NEW CORE
	105A	Auditors Suite 105	Office 105A	D3	WD		3'-0"	7'-0"	F1	HM	6	H3	J3	
	105B	Auditors Suite 105	Office 105B	D3	WD		3'-0"	7'-0"	F1	HM	6	H3	J3	
	105C	Auditors Suite 105	Office 105C	D3	WD		3'-0"	7'-0"	F1	HM	6	H3	J3	
	105D	Auditors Suite 105	Office 105D	D3	WD		3'-0"	7'-0"	F1	HM	6	H3	J3	
	106	Suite 106	Corridor A1	ETR	ETR		3'-0" +/-	6'8" +/-	ETR	ETR	31	ETR	ETR	Note #1 CW, PROVIDE NEW CORE
	106.1	Suite 106	Corridor A1	ETR	ETR		3'-0" +/-	6'-8" +/-	ETR	ETR	31	ETR	ETR	Note #1 CW, PROVIDE NEW CORE
	106A	Suite 106	Office 106A	D3	WD		3'-0"	7'-0"	F1	HM	6	H3	J3	
	106B	Suite 106	Office 106B	D3	WD		3'-0"	7'-0"	F1	HM	6	H3	J3	
	106C	Suite 106	Office 106C	D3	WD		3'-0"	7'-0"	F1	HM	6	H3	J3	
	106D	Suite 106	Office 106D	D3	WD		3'-0"	7'-0"	F1	HM	6	H3	J3	
	106E	Suite 106	Office 106E	D3	WD		3'-0"	7'-0"	F1	HM	6	H3	J3	
	106F	Suite 106	Office 106F	D3	WD		3'-0"	7'-0"	F1	HM	6	H3	J3	
	106G	Suite 106	Office 106G	D3	WD		3'-0"	7'-0"	F1	HM	6	H3	J3	
	107	Shared Kitchen 107	Corridor A1	D3	WD		3'-0"	7'-0"	F2	HM	19	H4	J4	W8x24 plate lintel, NEW OPENING
	108	Lobby 108	Exterior	D6.4	FRP		(1)3'-6"	7'-0"	F6.2	ALUM	1	H6	J6	Note #1 CR, ACTUATOR AT THIS DOOR ONLY
	108.1	Lobby 108	Corridor A1	ETR	ETR		(2)3'-4" +/-	7'-2" +/-	ETR	ETR	2	ETR	ETR	Note #1 CR, PROVIDE NEW CORE
	108A	Toilet Room 110A	Corridor A1	ETR	ETR		2'-8" +/-	6'-8" +/-	ETR	ETR	51	ETR	ETR	PROVIDE NEW CORE
	109	Passage 109	Corridor A1	D4	WD		(2)3'-0"	6'-8"	F5	HM	9	H2	J2	Note #3
	109A	Toilet Room 109A	Passage 109	D1	WD		3'-0"	6'-8"	F1	HM	10	H2	J2	
	109B	Elevator Machine Room 109B	Passage 109	D1	WD		3'-0"	6'-8"	F1	HM	33	H2	J2	Note #1 CW
	109C	Electrical Room 109C	Passage 109	D1	WD		3'-0"	6'-8"	F1	HM	12	H2	J2	
	109D	Coat Closet 109D	Corridor A1	ETR	ETR		2'-8" +/-	6'-8" +/-	ETR	ETR	20	ETR	ETR	Note #5, PROVIDE NEW CORE
	110	Open Office 110	Corridor A1	ETR	ETR		3'-0" +/-	6'-8" +/-	ETR	ETR	31	ETR	ETR	Note #1 CW, PROVIDE NEW CORE
	110A	Open Office 110	Office 110A	D3	WD		3'-0"	7'-0"	F1	HM	8	H3	J3	
	110B	Open Office 110	Office 110B	D3	WD		3'-0"	7'-0"	F1	HM	6	H3	J3	
	110C	Open Office 110	Office 110C	D3	WD		3'-0"	7'-0"	F1	HM	6	H3	J3	
	110D	Open Office 110	Office 110D	D3	WD		3'-0"	7'-0"	F1	HM	6	H3	J3	
	111	Conference Room 111	Corridor A1	ETR	ETR		3'-0" +/-	6'-8" +/-	ETR	ETR	31	ETR	ETR	Note #1 CW, PROVIDE NEW CORE
	113	Conference Room 113	Corridor A1	ETR	ETR		3'-0" +/-	6'-8" +/-	ETR	ETR	31	ETR	ETR	Note #1 CW, PROVIDE NEW CORE
	115	Women's Lav	Corridor A1	ETR	ETR		3'-0" +/-	6'-8" +/-	ETR	ETR	20	ETR	ETR	PROVIDE NEW CORE
	115A	Storage 115A	Corridor C1	ETR	ETR		3'-0" +/-	6'-8" +/-	ETR	ETR	20	ETR	ETR	PROVIDE NEW CORE
	116	IDF 116	Corridor C1	D1	WD	ETR 90 MIN	3'-0"	6'-8"	ETR	ETR	32	ETR	ETR	Note #1 CW, PROVIDE NEW CORE
	117	Electrical Room 117	Corridor C1	ETR	ETR	ETR 90 MIN	3'-0" +/-	6'-8" +/-	ETR	ETR	20	ETR	ETR	PROVIDE NEW CORE
	118	Storage	Corridor C1	ETR	ETR		3'-0" +/-	6'-8" +/-	ETR	ETR	20	ETR	ETR	PROVIDE NEW CORE
	119	LRC	Corridor C1	ETR	ETR		(2)3'-0" +/-	6'-8" +/-	ETR	ETR	20	ETR	ETR	PROVIDE NEW CORE
	120	Existing Classroom 120	Corridor C1	ETR	ETR		3'-0" +/-	6'-8" +/-	ETR	ETR	20	ETR	ETR	PROVIDE NEW CORE
	121	Existing classroom 121	Corridor C	ETR	ETR		3'-0" +/-	6'-8" +/-	ETR	ETR	20	ETR	ETR	PROVIDE NEW CORE
	122	Exterior	Gym	ETR	ETR		3'-0" +/-	7'-2" +/-	ETR	ETR	28	ETR	ETR	Note #1 CR, PROVIDE NEW CORE
	123	Exterior	Gym	ETR	ETR		(2)3'-4" +/-	7'-2" +/-	ETR	ETR	20	ETR	ETR	Note #5, PROVIDE NEW CORE
	124	Exterior	Gym	ETR	ETR		3'-0" +/-	7'-2" +/-	ETR	ETR	28	ETR	ETR	Note #1 CR, PROVIDE NEW CORE
	125	Exterior	LRC	D10	FRP		(2)3'-0"	8'-0"	ETR	ETR	5	ETR	ETR	Note #1 CR, Modify existing frame as required, PROVIDE NEW CORE
	109E	Elevator Cab		ETR	ETR	ETR	ETR	ETR	ETR	ETR		ETR	ETR	Note #1 CR in Elevator Cab to acesss all floors

Window Screen Replacement Notes:

1. Scope

Provide and install new window insect screens, including new frames and mesh, for all designated operable windows in the building. Screens shall be fabricated and fitted to existing window units to ensure proper function, appearance, and durability.

2. Materials

A.A. Screen Mesh
- Type: Standard insect screen mesh
- Material: Aluminum
- Mesh Size: 18x16 (18 strands vertical x 16 horizontal per inch)
- Wire Diameter: Approx. 0.011 inch
- Color: Charcoal

A.B. Screen Frames
- Material: Extruded aluminum
- Dimensions: as needed to fit existing window hardware
- Finish: Anodized coating
- Color: To match existing window
- Frame Corners: Mitered with internal die-cast metal or nylon corner keys
- Mounting Type:
  - Slide-in, friction-fit, or spring-loaded tabs as appropriate
  - Include lift tabs or pull handles for operability
  - Bug flap or felt edge where necessary to ensure full insect barrier

C.C. Spline
- Material: EPDM rubber
- Size: As required to securely hold mesh in screen channel
- Color: Black or grey, to match frame and mesh

D.D. Fasteners / Retention Devices
- Type: Stainless steel
- Method: Tabs, springs, plungers, clips, or screws as required by window type
- Ensure tamper-resistance and ease of removal for cleaning or emergency egress.

3. Fabrication
- Frames shall be square, rigid, and free of warps or defects.
- Mesh shall be evenly stretched and spline-secured without puckering or slack.
- All edges to be smooth and safe to the touch.
- Units shall be custom sized for each window opening.

4. Installation
- Remove and dispose of all old screen frames and components.
- Field-measure each window to ensure proper fit of new frames.
- Install new screens securely, flush, and square to the window.
- Ensure smooth operation (open/close) and unobstructed views.
- Verify full seal around frame perimeter to prevent insect intrusion.

5. Performance Requirements
- Screens shall:
  - Prevent ingress of insects while allowing airflow and visibility
  - Resist corrosion, UV damage, and tearing
  - Be removable for cleaning and maintenance without tools
  - Not interfere with window operation or life safety requirements

6. Quality Assurance
- Installer must have demonstrated experience with commercial window systems.
- Submit one full-size mock-up unit for approval before production.
- All components shall be commercial grade and compliant with local building codes.

7. Warranty
- Provide a minimum 1-year warranty on materials and installation.
- Mesh shall resist fraying and UV degradation under normal exposure.
- Frames and corners shall remain structurally sound and free from corrosion.

GIS Main Building Door and Frame Schedule

Floor	Door Number	Room Name & Number: To	From	Door Type	Door Material	Fire Rating	Door Width	Door Height	Frame Elevation	Frame Material	Hardware Set	Head Detail	Jamb Detail	Remarks
SECOND FLOOR	200	Corridor E2	TBD	ETR	ETR		3'-0" +/-	6'-8" +/-	ETR	ETR	20	ETR	ETR	Note #5, PROVIDE NEW CORE
	200.1	Corridor E2	Stair 4	D2	WD	ETR 60 MIN	3'-0"	6'-8"	F1	HM	37	H1	J1	Note #1 CR
	200.2	Corridor D2	Corridor A2	D4	WD		(2)3'-0"	7'-0"	F5	HM	18	H3	J3	Note #1 CR
	200.3	Corridor A2	Stair 2	ETR	ETR	ETR 90 MIN	(2)3'-2" +/-	7'-0" +/-	ETR	ETR	40	ETR	ETR	Note #1 CR, PROVIDE NEW CORE
	200.4	Corridor A2	Stair 1	ETR	ETR	ETR 60 MIN	(2)3'-2" +/-	7'-0" +/-	ETR	ETR	40	ETR	ETR	Note #1 CR, PROVIDE NEW CORE
	200.6	Corridor B2	Open Stair	D4	WD	60 MIN	(2)3'-0"	7'-0"	F5	HM	38	H3	J3	Note #1 CR
	201A	Existing Boys Restroom	Corridor E2	ETR	ETR		3'-0" +/-	6'-8" +/-	ETR	ETR	20	ETR	ETR	Note #5, PROVIDE NEW CORE
	201B	Existing Girls Restroom	Corridor E2	ETR	ETR		3'-0" +/-	6'-8" +/-	ETR	ETR	20	ETR	ETR	Note #5, PROVIDE NEW CORE
	202	Corridor E2	Room 202	ETR	ETR		3'-0" +/-	6'-8" +/-	ETR	ETR	20	ETR	ETR	Note #5, PROVIDE NEW CORE
	203	Corridor E2	Room 201	ETR	ETR		3'-0" +/-	6'-8" +/-	ETR	ETR	20	ETR	ETR	Note #5, PROVIDE NEW CORE
	203.1	Room 201	Room 200A	ETR	ETR		3'-0" +/-	6'-8" +/-	ETR	ETR	20	ETR	ETR	Note #5, PROVIDE NEW CORE
	205	Shared Office 205	Corridor A2	ETR	ETR		3'-0" +/-	6'-8" +/-	ETR	ETR	20	ETR	ETR	Note #5, PROVIDE NEW CORE
	206	Suite 206	Corridor A2	ETR	ETR		3'-0" +/-	6'-8" +/-	ETR	ETR	23	ETR	ETR	PROVIDE NEW CORE
	206A	Office 206A	Suite 206	D3	WD		3'-0"	7'-0"	F1	HM	47	H3	J3	
	206B	Office 206B	Suite 206	D3	WD		3'-0"	7'-0"	F1	HM	6	H3	J3	
	207	Suite 207	Corridor A2	ETR	ETR		3'-0" +/-	6'-8" +/-	ETR	ETR	23	ETR	ETR	PROVIDE NEW CORE
	207A	Office 207A	Suite 207	D3	WD		3'-0"	7'-0"	F1	HM	6	H3	J3	
	207B	Men's Lav 207B	Corridor A2	ETR	ETR		3'-0" +/-	6'-8" +/-	ETR	ETR	20	ETR	ETR	PROVIDE NEW CORE
	207C	Janitor Closet 207C	Corridor A2	ETR	ETR		2'-8" +/-	6'-8" +/-	ETR	ETR	20	ETR	ETR	PROVIDE NEW CORE
	208	Suite 208	Corridor A2	ETR	ETR		3'-0" +/-	6'-8" +/-	ETR	ETR	23	ETR	ETR	Note #5, PROVIDE NEW CORE
	208A	Office 208A	Suite 208	D3	WD		3'-0"	7'-0"	F1	HM	47	H3	J3	
	208B	Office 208B	Suite 208	D3	WD		3'-0"	7'-0"	F1	HM	6	H3	J3	
	209	Conference Room 209	Corridor A2	ETR	ETR		3'-0" +/-	6'-8" +/-	ETR	ETR	23	ETR	ETR	PROVIDE NEW CORE
	209A	Mail/Pantry/Copy 209A	Corridor A2	D3	WD		3'-0"	7'-0"	F2	HM	34	H4	J4	NEW OPENING, W8x24 plate lintel
	210	Suite 210	Corridor A2	ETR	ETR		3'-0" +/-	6'-8" +/-	ETR	ETR	23	ETR	ETR	Note #5, PROVIDE NEW CORE
	210A	Office 210A	Suite 210	D3	WD		3'-0"	7'-0"	F1	HM	6	H3	J3	
	210B	Office 210B	Suite 210	D3	WD		3'-0"	7'-0"	F1	HM	6	H3	J3	
	211	Suite 211	Corridor A2	ETR	ETR		3'-0" +/-	6'-8" +/-	ETR	ETR	23	ETR	ETR	Note #5, PROVIDE NEW CORE
	211.1	Closet	Suite 211	ETR	ETR		1'-10" +/-	5'-10" +/-	ETR	ETR	20	ETR	ETR	Note #5, PROVIDE NEW CORE
	211A	Office 211A	Suite 211	D3	WD		3'-0"	7'-0"	F1	HM	6	H3	J3	
	212	Suite 212	Corridor A2	ETR	ETR		3'-0" +/-	6'-8" +/-	ETR	ETR	23	ETR	ETR	Note #5, PROVIDE NEW CORE
	212A	Office 212A	Suite 212	D3	WD		3'-0"	7'-0"	F1	HM	6	H3	J3	
	212B	Office 212B	Suite 212	D3	WD		3'-0"	7'-0"	F1	HM	6	H3	J3	
	213	Suite 213	Corridor A2	ETR	ETR		3'-0" +/-	6'-8" +/-	ETR	ETR	23	ETR	ETR	PROVIDE NEW CORE
	213A	Office 213A	Suite 213	D3	WD		3'-0"	7'-0"	F1	HM	6	H3	J3	
	213B	Women's Lav 213B	Corridor A2	ETR	ETR		3'-0" +/-	6'-8" +/-	ETR	ETR	20	ETR	ETR	Note #5, PROVIDE NEW CORE
	214	Suite 214	Corridor A2	ETR	ETR		3'-0" +/-	6'-8" +/-	ETR	ETR	23	ETR	ETR	Note #5, PROVIDE NEW CORE
	214.1	Closet	Suite 214	ETR	ETR		1'-10" +/-	5'-10" +/-	ETR	ETR	20	ETR	ETR	Note #5, PROVIDE NEW CORE
	214A	Office 214A	Suite 214	D3	WD		3'-0"	7'-0"	F1	HM	6	H3	J3	
	215	Passage 215	Corridor A2	D4	WD		(2)3'-0"	6'-8"	F5	HM	9	H3	J3	NOTE #3
	215A	Phone Booth 215A	Passage 215	D1	WD		3'-0"	6'-8"	F1	HM	11	H3	J3	NEW OPENING,PROVIDE LINTEL
	215B	IDF Room 215B	Passage 215	D1	WD		3'-0"	6'-8"	F1	HM	48	H3	J3	Note #1 CW
	215C	Toilet Room 215C	Passage 215	D1	WD		3'-0"	6'-8"	F1	HM	13	H3	J3	
	215D	Electrical Room 215D	Passage 215	D1	WD		3'-0"	6'-8"	F1	HM	14	H3	J3	
	216	Office 216	Corridor A2	ETR	ETR		3'-0" +/-	6'-8" +/-	ETR	ETR	23	ETR	ETR	Note #5, New Core
	217	Conference Room 217	Corridor B2	D3	WD		3'-0" +/-	6'-8" +/-	F1	HM	35	H1	J1	
	219	Office 219	Corridor B2	D3	WD		3'-0"	6'-8"	F1	HM	36	H1	J1	NEW OPENING, PROVIDE LINTEL
THIRD FLOOR	300	Men's Lav 300	Corridor A3	ETR	ETR		3'-0" +/-	7'-0" +/-	ETR	ETR	20	ETR	ETR	PROVIDE NEW CORE
	300A	Janitor Closet 300A	Corridor A3	ETR	ETR		2'-8" +/-	7'-0" +/-	ETR	ETR	20	ETR	ETR	PROVIDE NEW CORE
	300B	Storage 300	Stair 2	ETR	ETR		3'-0" +/-	7'-0" +/-	ETR	ETR	39	ETR	ETR	Note #5, PROVIDE NEW CORE
	300.1	Stair 2	Corridor A3	ETR	ETR	ETR 90 MIN	(2)3'-0" +/-	7'-0" +/-	ETR	ETR	40	ETR	ETR	Note #1 CR, PROVIDE NEW CORE
	300.2	Stair 1	Corridor A3	ETR	ETR	ETR 60 MIN	(2)3'-0" +/-	7'-0" +/-	ETR	ETR	40	ETR	ETR	Note #1 CR, PROVIDE NEW CORE
	301	Office 301B	Corridor A3	ETR	ETR		3'-0" +/-	7'-0" +/-	ETR	ETR	23	ETR	ETR	PROVIDE NEW CORE
	301.1	Suite 301	Corridor A3	ETR	ETR		3'-0" +/-	7'-0" +/-	ETR	ETR	23	ETR	ETR	PROVIDE NEW CORE
	301A	Office 301A	Suite 301	D3	WD		3'-0"	7'-0"	F1	HM	6	H3	J3	
	301B	Office 301B	Suite 301	D3	WD		3'-0"	7'-0"	F1	HM	6	H3	J3	
	301C	Conference Room 301C	Suite 301	D3	WD		3'-0"	7'-0"	F1	HM	8	H3	J3	
	302	Suite 302	Corridor A3	ETR	ETR		3'-0" +/-	7'-0" +/-	ETR	ETR	23	ETR	ETR	PROVIDE NEW CORE
	302.1	Office 302C	Corridor A3	ETR	ETR		3'-0" +/-	7'-0" +/-	ETR	ETR	23	ETR	ETR	Note #5, PROVIDE NEW CORE
	302A	Office 302A	Suite 302	D3	WD		3'-0"	7'-0"	F1	HM	49	H3	J3	
	302B	Office 302B	Suite 302	D3	WD		3'-0"	7'-0"	F1	HM	49	H3	J3	
	302C	Office 302C	Suite 302	D3	WD		3'-0"	7'-0"	F1	HM	6	H3	J3	
	303	Passage 311	Corridor A3	D4	WD		(2)3'-0"	6'-8"	F5	HM	9	H3	J3	NOTE #3
	303A	IDF 303A	Passage 303	D1	WD		3'-0"	7'-0"	F1	HM	50	H3	J3	NEW OPENING, Note #1 CW
	303B	Shared Café 303B	Passage 303	D2	WD		3'-0"	7'-0"	F2	HM	15	H3	J3	NEW OPENING
	303C	Electrical Room 303C	Shared Café 303B	D1	WD		2'-2"	7'-0"	F1	HM	16	H1	J1	
	304	Conference Room 304	Corridor A3	ETR	ETR		3'-0" +/-	7'-0" +/-	ETR	ETR	23	ETR	ETR	PROVIDE NEW CORE
	305	Suite 305	Corridor A3	ETR	ETR		3'-0" +/-	7'-0" +/-	ETR	ETR	23	ETR	ETR	PROVIDE NEW CORE
	305A	Office 305A	Suite 305	D3	WD		3'-0"	7'-0"	F1	HM	6	H3	J3	
	305B	Office 305B	Suite 305	D3	WD		3'-0"	7'-0"	F1	HM	6	H3	J3	
	305C	Office 305C	Suite 305	D3	WD		3'-0"	7'-0"	F1	HM	6	H3	J3	
	305D	Office 305D	Suite 305	D3	WD		3'-0"	7'-0"	F1	HM	7	H3	J3	
	306	Suite 306	Corridor A3	ETR	ETR		3'-0" +/-	6'-8" +/-	ETR	ETR	23	ETR	ETR	PROVIDE NEW CORE
	306.1	Office 306E	Corridor A3	ETR	ETR		3'-0" +/-	7'-0" +/-	ETR	ETR	23	ETR	ETR	PROVIDE NEW CORE
	306.2	Office 306A	Corridor A3	ETR	ETR		3'-0" +/-	7'-0" +/-	ETR	ETR	23	ETR	ETR	PROVIDE NEW CORE
	306A	Office 306A	Suite 306	D3	WD		3'-0"	7'-0"	F1	HM	6	H3	J3	
	306B	Office 306B	Suite 306	D3	WD		3'-0"	7'-0"	F1	HM	6	H3	J3	
	306C	Office 306C	Suite 306	D3	WD		3'-0"	7'-0"	F1	HM	6	H3	J3	
	306D	Office 306D	Suite 306	D3	WD		3'-0"	7'-0"	F1	HM	6	H3	J3	
	306E	Office 306E	Suite 306	D3	WD		3'-0"	7'-0"	F1	HM	6	H3	J3	
	306F	Office 306F	Suite 306	D3	WD		3'-0"	7'-0"	F1	HM	6	H3	J3	
	307	Women's Lav 307	Corridor A3	ETR	ETR		3'-0" +/-	7'-0" +/-	ETR	ETR	20	ETR	ETR	Note #5, PROVIDE NEW CORE
	308	Storage 308	Stair 1	ETR	ETR		3'-0" +/-	7'-0" +/-	ETR	ETR	39	ETR	ETR	Note #5, PROVIDE NEW CORE

1. DOOR CARD ACCESS TO BE FURNISHED AND INSTALLED BY SECURITY VENDOR UNDER SEPARATE CONTRACT. SEE DETAIL #2 ON THIS SHEET FOR MORE INFORMATION. GC TO PROVIDE CONDUIT AND ALL PATHWAYS AND BACK BOXES FOR SYSTEMS. ANY EXPOSED CONDUIT PAINTED TO MATCH WALL PAINT AND AS NOTED ON ELECTRICAL DRAWINGS.

2. EXISTING KEYED MULLION TO REMAIN. PROVIDE NEW KEYED MULLION ON NEW DOORS.

3. REMOVE EXISTING MAGNETIC DOOR HOLDERS. PATCH ALL SURFACES AND PREPARE FOR NEW FINISH AS SPECIFIED.

4. MODIFY EXISTING WOOD FRAME TO ACCOMMODATE THE SPECIFIED DOOR AND DOOR HARDWARE.

5. NEW CORE IN EXISTING HARDWARE

GENERAL DOOR AND WINDOW NOTES:

*TYPICAL GLAZING NOTE: ALL NON-RATED GLAZING TO BE CLEAR TEMPERED 1/4" THK. GLAZING

*ALL WINDOWS AND DOORS WITH GLASS TO BE PROVIDED WITH NEW WINDOW SHADES. SEE SPECIFICATIONS.

*ALL EXTERIOR OPERABLE WINDOWS TO BE PROVIDED WITH NEW INSECT SCREENS. SEE SPECIFICATION THIS SHEET.

*ALL HOLLOW METAL DOOR FRAMES LISTED ON DOOR SCHEDULE AS ETR AND NEW TO BE PAINTED BOTH SIDES, SEE FINISH SCHEDULE

*REMOVE EXISTING ROOM SIGNS, ADHESIVES, DOOR LITE FILM & WINDOW COVERINGS FROM ALL DOORS & WALLS.

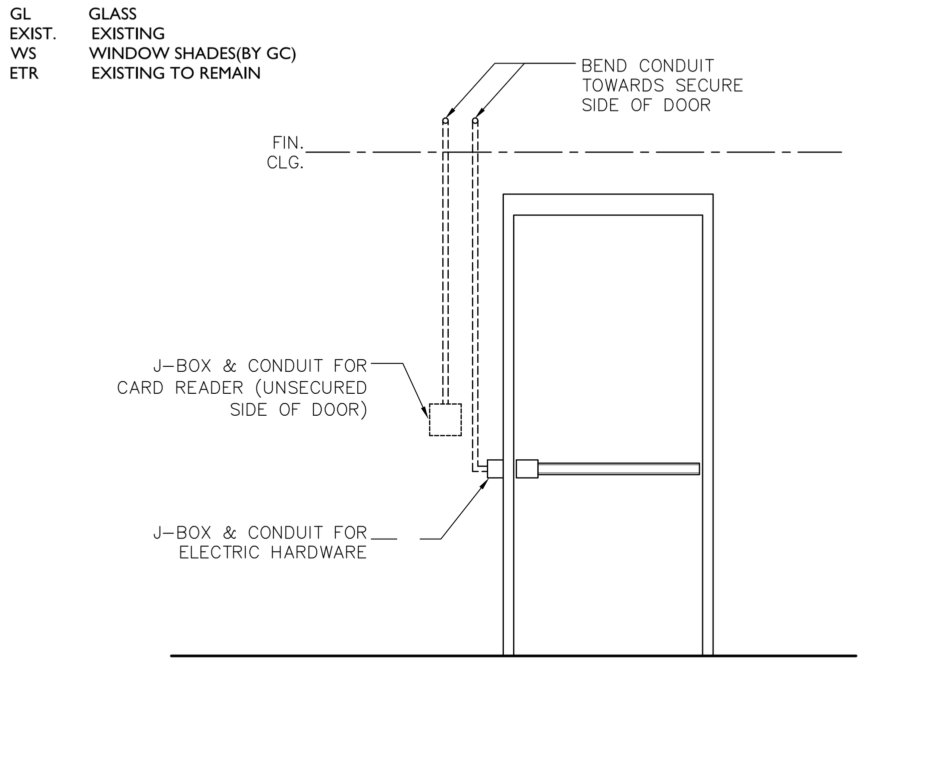
*THRU-BOLTS FOR EXIT DEVICES, CLOSER AND CLOSER ARMS, POWER OPERATOR ARMS, MAGNETIC HOLD OPENS, MAGNETIC LOCKS, ETC ARE NOT PERMITTED.

*ALL EXISTING DOORS WILL RECEIVE NEW CORES, UNLESS OTHERWISE NOTED IN CONTRACT DOCUMENTS. GC TO CONFIRM COUNT OF ALL REQUIRED EXISTING LOCKING HARDWARE BEFORE PURCHASING.

NOTE : NEW EXTERIOR DOORS TO BE CLEAR ANODIZED WITH TWO COATS (ONE COAT PRIMER, ONE COAT PAINT, ONE COAT CLEAR COAT) COLOR : BONE WHITE TO MATCH EXISTING

ABBREVIATIONS:

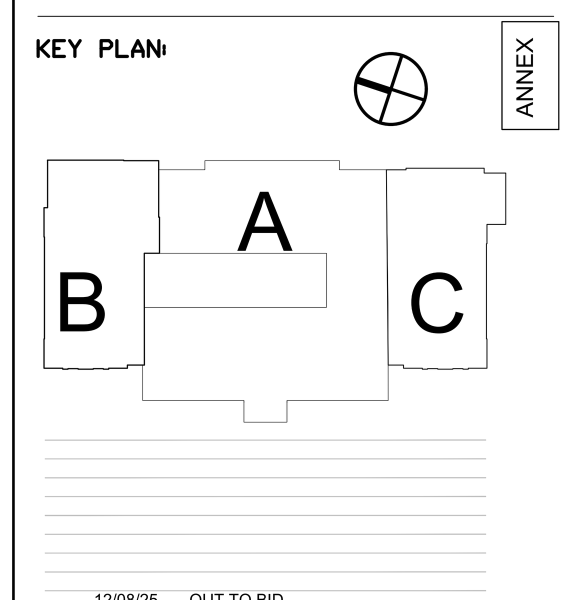
CR	HARD WIRED CARD READER
CW	WIRELESS CARD READER
HM	HOLLOW METAL
AL	ALUMINUM
WD	WOOD
GL	GLASS
EXIST.	EXISTING
WS	WINDOW SHADES(BY GC)
ETR	EXISTING TO REMAIN



2 DOOR CARD ACCESS DETAIL

SCALE: 1/2" = 1'-0"

KEY PLAN



No.	Date	Description
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	12/03/25	DCA Submission

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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date: 04/24/2025
Drawn By: TC
Checked By: KG

Sheet Name:
DOOR SCHEDULE
MAIN BUILDING

Sheet No:
A-002
Sheet 001 of 000

P:\2025\25-024 ROWAN GIS ROUND 5\DRAWINGS\CONDOCS\A000S GENERAL -COVER SCHEDULES PHASING ECT\

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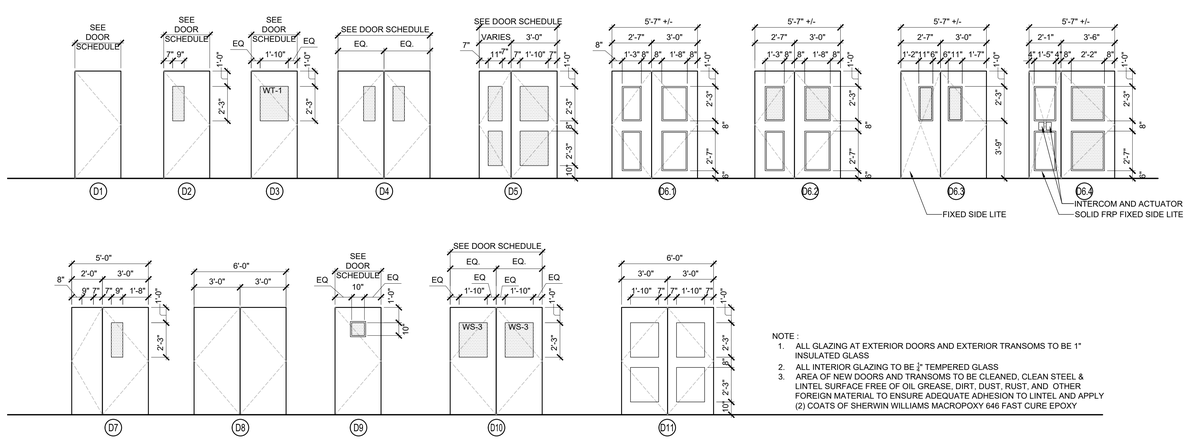
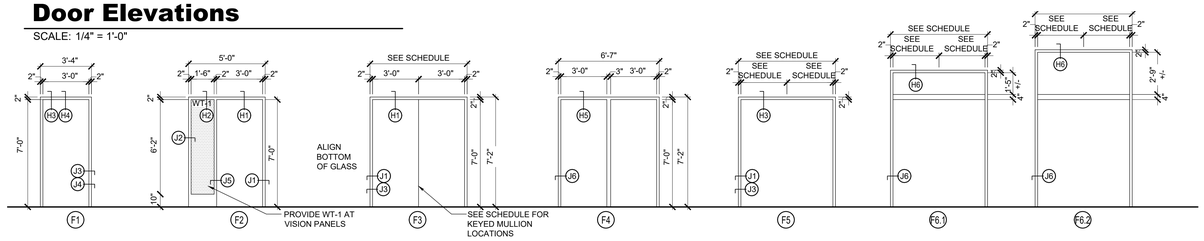


NOTE :
1. ALL GLAZING AT EXTERIOR DOORS AND EXTERIOR TRANSOMS TO BE 1" INSULATED GLASS
2. ALL INTERIOR GLAZING TO BE ¼" TEMPERED GLASS
3. AREA OF NEW DOORS AND TRANSOMS TO BE CLEANED, CLEAN STEEL & LINTEL SURFACE FREE OF OIL GREASE, DIRT, DUST, RUST, AND OTHER FOREIGN MATERIAL TO ENSURE ADEQUATE ADHESION TO LINTEL AND APPLY (2) COATS OF SHERWIN WILLIAMS MACROPOXY 646 FAST CURE EPOXY

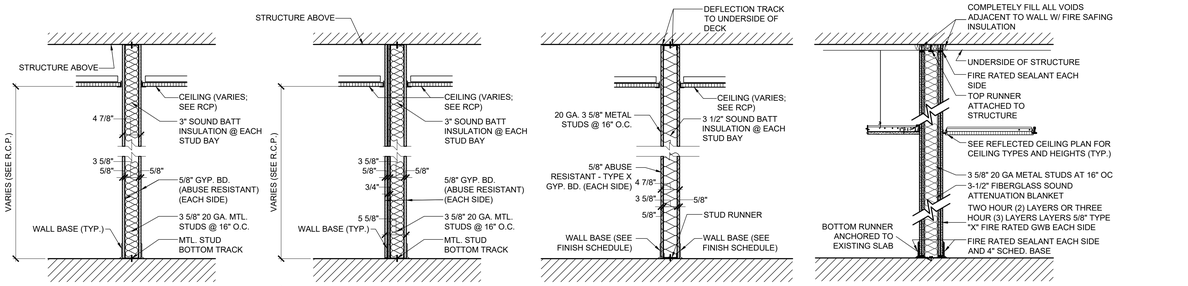
Door Elevations

SCALE: 1/4" = 1'-0"



Frame Elevations

SCALE: 1/4" = 1'-0"



1 4 7/8" GWB PARTITION
3 5/8" METAL STUDS

1A 5 5/8" GWB PARTITION
3 5/8" METAL STUDS-3/4" PLWD-5/8" GYB

2 4 7/8" METAL STUD PARTITION - 1 HR. RATED
UL DESIGN NO. U419

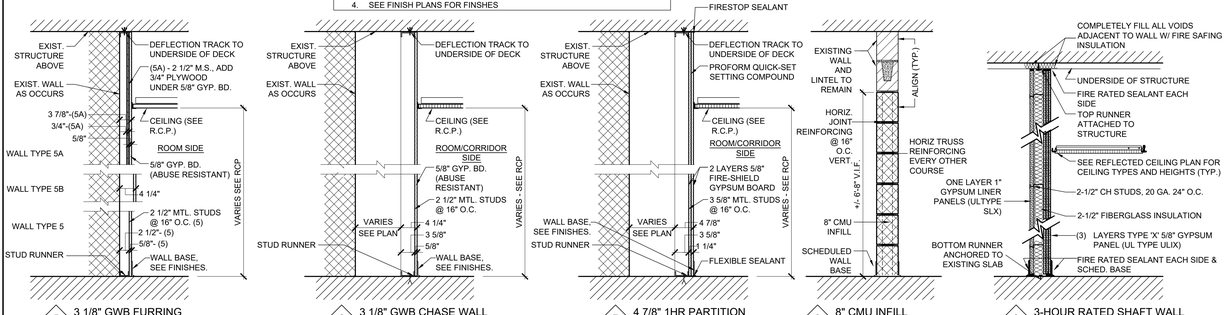
3 2 HOUR - GWB PARTITION U411
TWO LAYERS 5/8" TYPE "X" FIRE RATED GWB EACH SIDE

3A 3 HOUR - GWB PARTITION U419
THREE LAYERS 5/8" TYPE "X" FIRE RATED GWB EACH SIDE

1B 10 7/8" GWB PLUMBING WALL
6" + 3-5/8" METAL STUDS-5/8" GB

1C 4 7/8" GWB PARTITION
3 5/8" METAL STUDS + CERAMIC TILE

GENERAL PARTITION NOTES:
1. USE WATER RESISTANT G.B. AT TOILETS, BATHROOMS, UTILITY ROOMS, JANITOR CLOSETS AND OTHER WET AREAS.
2. USE 20 GAUGE BACKING PLATES AT HANDRAILS, GRAB BARS AND OTHER WALL MOUNTED ITEMS.
3. PARTITION THICKNESSES INDICATED ARE MINIMUMS.
4. SEE FINISH PLANS FOR FINISHES



5 3 1/8" GWB FURRING
2 1/2" METAL STUDS

5A 3 7/8" PLYWOOD UNDER GWB FURRING
2 1/2" M.S. - 3/4" PLWD. - 5/8" GYP. BD.

5B 4 1/4" PLYWOOD UNDER GWB FURRING
2 1/2" M.S. - 3/4" PLWD. - 5/8" GYP. BD.

5C 3 1/8" GWB FURRING
2 1/2" METAL STUDS - 5/8" GWB - TILE AS SCHEDULED

5D 4 1/4" GWB FURRING
3 5/8" METAL STUDS - 5/8" GWB

6 3 1/8" GWB CHASE WALL
2 1/2" METAL STUDS

6A 3 1/8" GWB CHASE WALL
2 1/2" METAL STUDS CERAMIC TILE

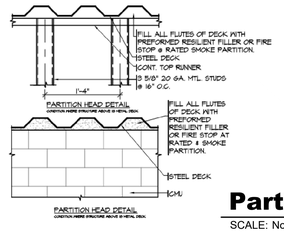
7 4 7/8" 1HR PARTITION
3 5/8" METAL STUDS

8 8" CMU INFILL
7 5/8" CMU BLOCK

9 3-HOUR RATED SHAFT WALL
5-1/2" THICK

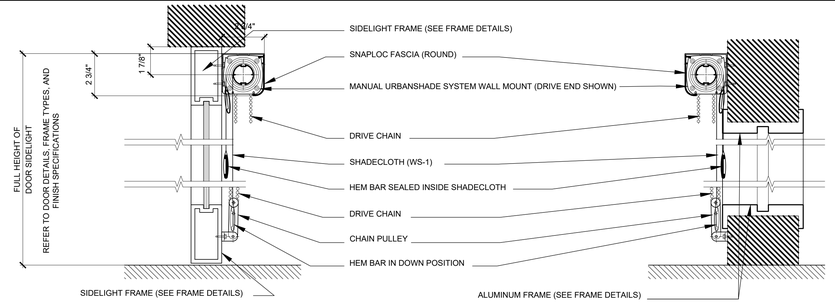
Partition Types

SCALE: Not To Scale



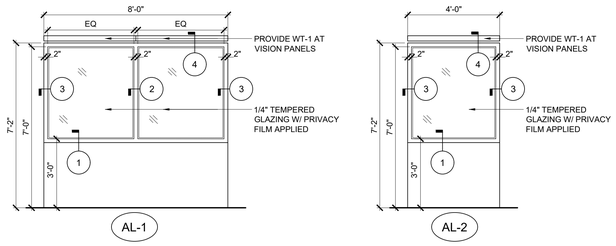
Partition Head Details

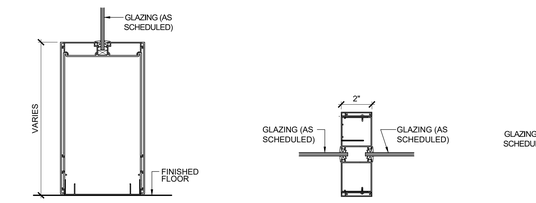
SCALE: Not To Scale



Sidelight and Vision Panel Window Shade Detail

SCALE: 3" = 1'-0"





Vision Panel Sill Detail

1 SCALE: 3" = 1'-0"

Door / Vision Panel Intermediate Mullion Detail

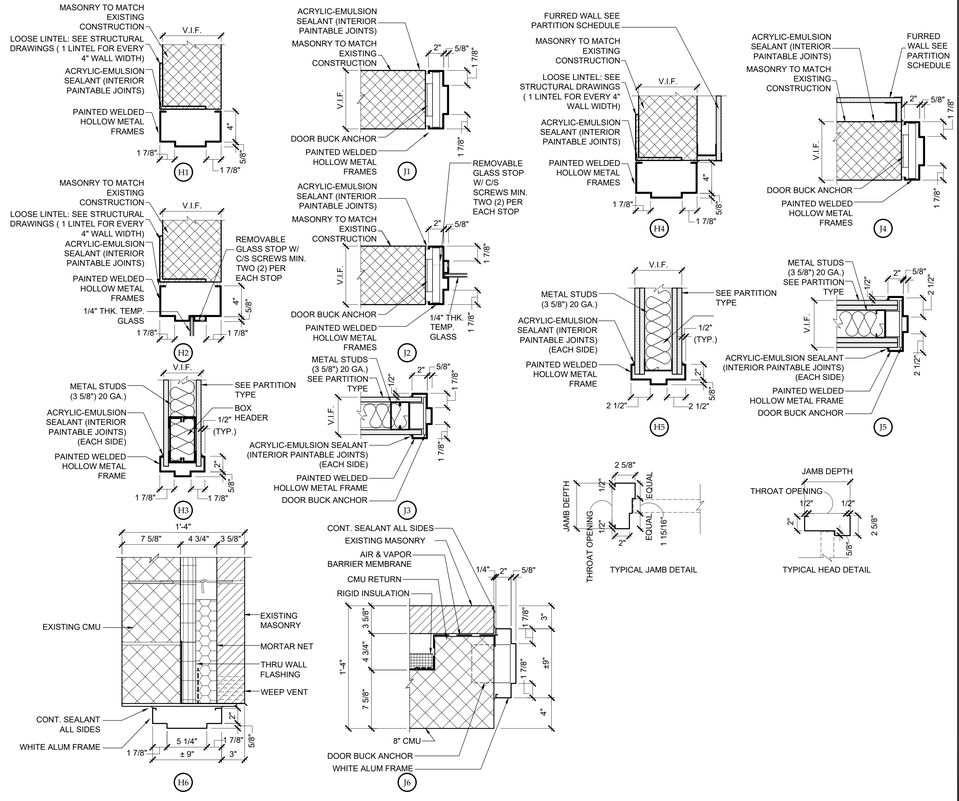
2 SCALE: 3" = 1'-0"

Vision Panel Jamb Detail

3 SCALE: 3" = 1'-0"

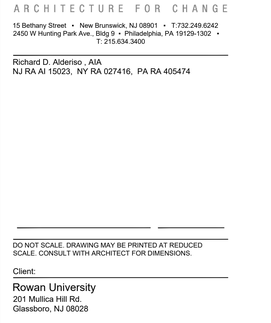
Vision Panel Head Detail

4 SCALE: 3" = 1'-0"



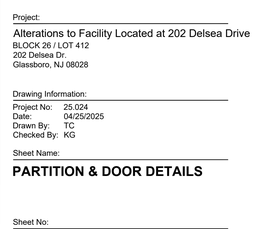
Door Head and Jamb Details

SCALE: 1 1/2" = 1'-0"

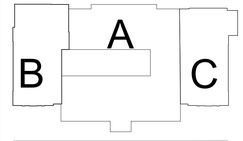


Typical Door Details

SCALE: Not To Scale



KEY PLAN:



ANNEX

No.	Date	Description
	12/08/25	OUT TO BID
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Client:
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201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date: 04/25/2025
Drawn By: TC
Checked By: KG

Sheet Name:
PARTITION & DOOR DETAILS

Sheet No:
A-002A
Sheet 001 of 000

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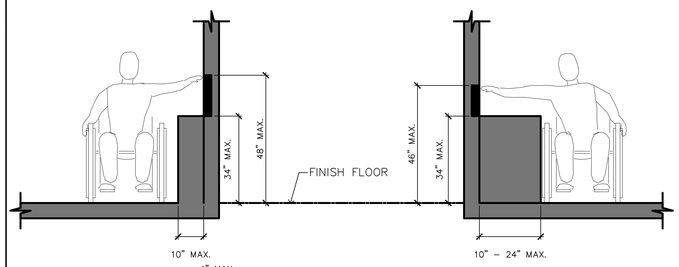
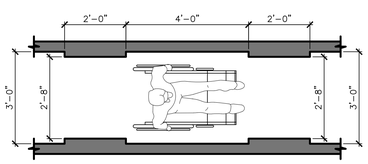
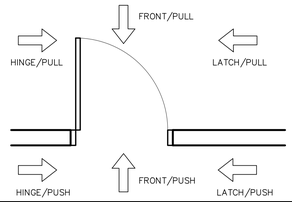




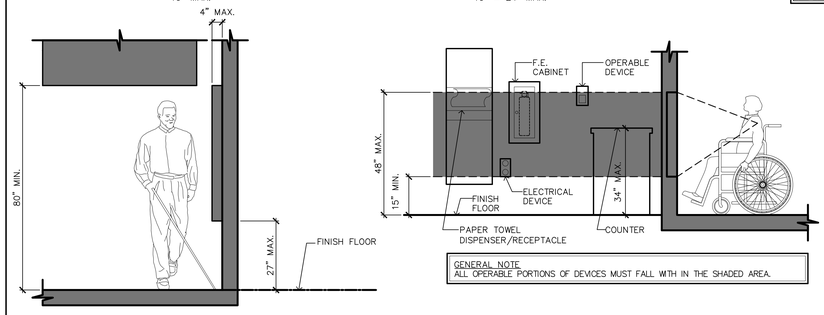
CLEAR WIDTH OF AN ACCESSIBLE ROUTE	
SEGMENT LENGTH	MINIMUM SEGMENT WIDTH
≤ 24 INCHES	32" INCHES
> 24 INCHES	36" INCHES



MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS			
TYPE OF USE		MINIMUM MANEUVERING CLEARANCES	
APPROACH DIRECTION	DOOR SIDE	PERPENDICULAR TO DOORWAY	PERPENDICULAR TO DOORWAY (BEYOND LATCH (U.O.N.)
FROM FRONT	PULL	60 INCHES	18 INCHES
FROM FRONT	PUSH	48 INCHES	0 INCHES (NOTE 3)
FROM HINGE SIDE	PULL	60 INCHES	36 INCHES
FROM HINGE SIDE	PULL	54 INCHES	42 INCHES
FROM HINGE SIDE	PUSH	42 INCHES (NOTE 1)	22 INCHES (NOTE 3 & 4)
FROM LATCH SIDE	PULL	48 INCHES (NOTE 2)	24 INCHES
FROM LATCH SIDE	PUSH	42 INCHES (NOTE 2)	24 INCHES

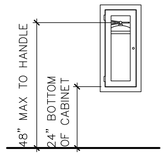
NOTES
1. ADD 6" IF CLOSER AND LATCH PROVIDED.
2. ADD 6" IF CLOSER PROVIDED.
3. ADD 12" BEYOND LATCH IF CLOSER AND LATCH PROVIDED.
4. BEYOND HINGE SIDE.

1. BARRIER–FREE STANDARDS INDICATED HEREIN ARE TYPICAL DIMENSIONS UNLESS INDICATED OTHERWISE ELSEWHERE IN THE DRAWINGS.
2. REFER TO COVER SHEET FOR APPLICABLE CODES, STANDARDS, AND GUIDELINES.
3. THE CLEAR WIDTH OF A PASSAGEWAY FOR A SINGLE WHEELCHAIR SHALL BE 32 INCHES FOR A PASSAGEWAY OF 24 INCHES OR LESS AND 36 INCHES FOR A PASSAGEWAY LONGER THAN 24 INCHES.
4. THE CLEAR FLOOR SPACE REQUIRED FOR A SINGLE WHEELCHAIR SHALL BE 30 INCHES BY 48 INCHES.
5. THE CLEAR FLOOR SPACE REQUIRED FOR A SINGLE WHEELCHAIR SHALL BE 30 INCHES BY 48 INCHES.
6. THE CLEAR WIDTH OF AN ACCESSIBLE ROUTE SHALL BE 36 INCHES.
7. HANDRAILS: THE TOP OF GRIPPING SURFACE OF HANDRAILS SHALL BE 34 INCHES MINIMUM AND 38 INCHES MAXIMUM VERTICALLY ABOVE THE STAIR NOSING R RAMP SURFACE. CLEAR SPACE BETWEEN HANDRAILS AND WALL SURFACE SHALL BE 1 1/2" MINIMUM.
8. PROTRUDING OBJECTS: OBJECTS WITH LEADING EDGES LOCATED MORE THAN 27 INCHES AND NOT MORE THAN 80 INCHES ABOVE THE FLOOR SHALL PROTRUDE NOT MORE THAN 4 INCHES FROM THE WALL.
9. GUARDRAILS OR OTHER BARRIERS SHALL BE PROVIDED WHEN VERTICAL CLEARANCE OF AN AREA ADJOINING AN ACCESSIBLE ROUTE IS LESS THAN 80 INCHES HIGH.
10. CHANGES IN LEVEL: A CHANGE IN LEVEL OF 1/4 INCH HIGH MAXIMUM SHALL BE PERMITTED TO BE VERTICAL AND WITHOUT EDGE TREATMENT. A CHANGE IN LEVEL OF BETWEEN 1/4 INCH AND 1/2 INCH HIGH MAXIMUM SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1: 2.
11. ACCESSIBLE PARKING SPACES SHALL BE 96 INCHES WIDE AND HAVE AN ADJACENT ACCESS AISLE OF NOT LESS THAN 60 INCHES MINIMUM. PASSENGER LOADING ZONES SHALL PROVIDE AN ACCESS AISLE 60 INCHES WIDE AND 20 FEET LONG MINIMUM ADJACENT TO THE VEHICLE PULL–UP SPACE AND AT THE SAME LEVEL AS THE ROADWAY.
12. RAMPS SHALL HAVE A SLOPE NOT STEEPER THAN 1:12. THE MAXIMUM RISE FOR ANY RAMP WITHOUT A LANDING IS 30 INCHES. THE RAMP SHALL HAVE A CLEAR WIDTH OF 36 INCHES. LANDING LENGTH SHALL BE A MINIMUM OF 60 INCHES.
13. STAIR TREADS AND RISERS SHALL BE AS FOLLOWS: STAIR TREADS SHALL BE MINIMUM OF 11 INCHES DEEP, STAIR RISERS SHALL BE A MAXIMUM OF 7 INCHES HIGH.
14. DOOR CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO AN OPEN POSITION OF 12 DEGREES WILL BE 5 SECONDS MINIMUM.
15. DOOR OPENING FORCE WHERE CLOSERS ARE USED SHALL BE 5 POUNDS MAXIMUM.
16. THE BOTTOM 12 INCHES OF ALL DOORS EXCEPT AUTOMATIC DOORS SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.
17. POWER ASSISTED DOORS: THE TIME REQUIRED FOR SUCH DOORS TO OPEN TO A BACK CHECK POSITION SHALL BE 3 SECONDS MINIMUM. THE FORCE REQUIRED TO STOP DOOR MOVEMENT SHALL BE 15 POUNDS MAXIMUM.
18. EXPOSED PIPES AND SURFACES UNDER LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT.
19. GRAB BARS SHALL HAVE A DIAMETER OR WIDTH OF GRIPPING SURFACE FROM 1 1/4 TO 2 INCHES. THE CLEAR SPACE BETWEEN THE GRAB BAR SURFACE AND THE WALL SURFACE SHALL BE 1–1/2 INCHES MINIMUM.
20. STRUCTURAL STRENGTH: ALLOWABLE STRESSES IN BENDING, SHEAR AND TENSION SHALL NOT BE EXCEEDED FOR MATERIALS USED WHERE A VERTICAL OR HORIZONTAL FORCE OF 250 POUNDS IS APPLIED AT ANY POINT ON THE GRAB BAR OR SEAT, FASTENER MOUNTING DEVICE OR SUPPORTING STRUCTURE.

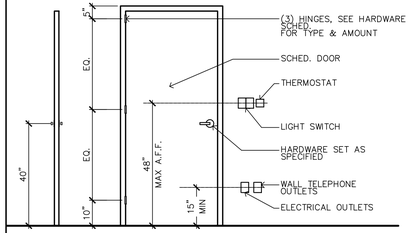


GENERAL NOTE
ALL OPERABLE PORTIONS OF DEVICES MUST FALL WITH IN THE SHADED AREA.

LIMITS OF PROTRUDING OBJECTS

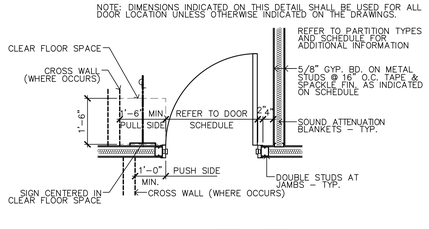


RECESSED FIRE EXTINGUISHER CABINET

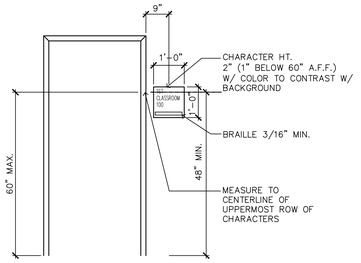


DOOR LEVERS

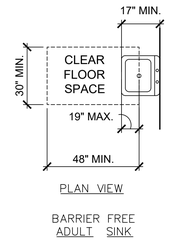
DEVICE & HINGE LOCATIONS



TYPICAL DOOR LOCATION PLAN DETAIL

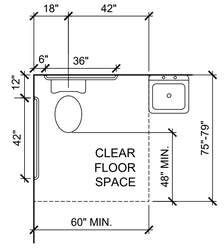


INTERIOR SIGNS: LOCATION AND HEIGHT

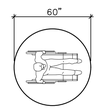


PLAN VIEW

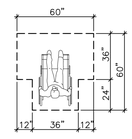
BARRIER FREE ADULT SINK



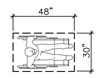
PLAN VIEW



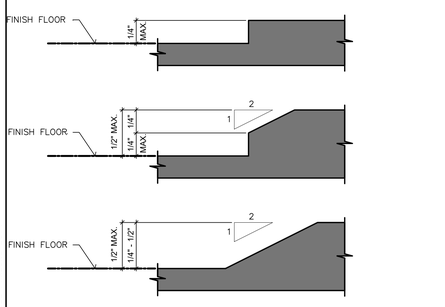
CIRCULAR TURNING SPACE



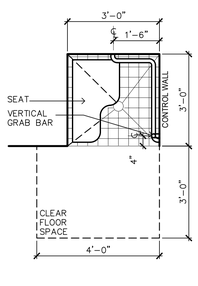
T–SHAPED TURNING SPACE



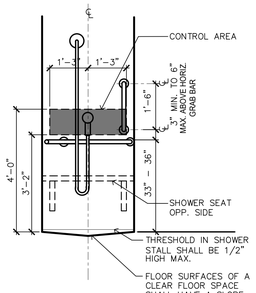
CLEAR FLOOR SPACE



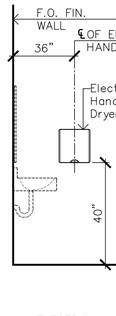
GENERAL NOTE
LEVEL CHANGES IN EXCESS OF 1/2" SHALL MEET SLOPE REQUIREMENTS FOR A RAMP



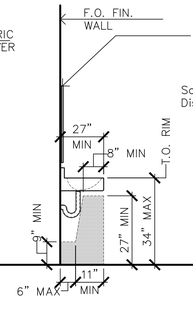
PLAN



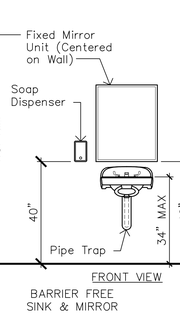
ELEVATION



ELECTRIC HAND DRYER

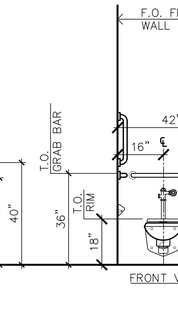


SIDE VIEW

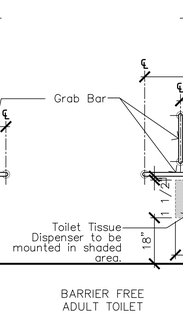


FRONT VIEW

BARRIER FREE SINK & MIRROR

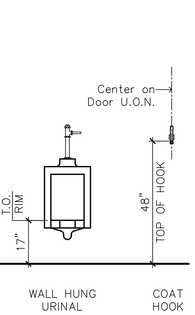


FRONT VIEW



SIDE VIEW

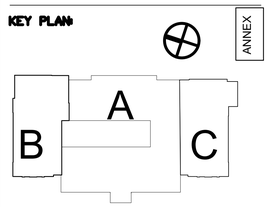
BARRIER FREE ADULT TOILET



WALL HUNG URINAL

COAT HOOK

KEY PLAN:



No.	Date	Description
	12/08/25	OUT TO BID
	12/03/25	DCA Submission

Revisions / Issues

DIGroupArchitecture
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Richard D. Alderiso , AIA
NJ RA AI 15023, NY RA 027416, PA RA 405474

DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date: 04/24/2025
Drawn By: TC
Checked By: KG

Sheet Name:
ADA / ACCESSIBILITY AND BARRIER FREE DETAILS

Sheet No:
A-003
Sheet 012 of 000

P:\2025\25.024 ROWAN GIS ROUND 5\DRAWINGS\CONDVCS\ADDDS \GENERAL -COVER SCHEDULES PHASING ECT\

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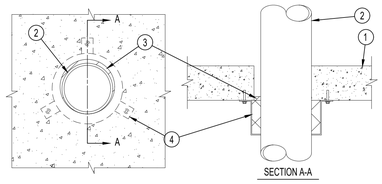
12/8/2025 2:24:00 PM

PLASTIC PIPE THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL

System No. C-AJ-2109

F RATING = 3-HR.
T RATING = 0, 2 & 3 HR. (See Item 2)



1. Floor or Wall Assembly – Min 4–1/2 in. thick reinforced lightweight or normal weight (100–150 pcf) concrete. Wall May also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 7 in.
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Through Penetrants – One nonmetallic pipe or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe and periphery of opening shall be min 0 in. (point contact) to max 1/2 in. Pipe to be rigidly supported on both sides of floor or wall assembly. The T Ratings are dependent on the size and/or type of pipe as shown in the table below. The following types and sizes of nonmetallic pipes may be used:
   A. Polyvinyl Chloride (PVC) Pipe – Nom 6 in. diam (or smaller) Schedule 40 solidcore of cellular cor PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
   B. Chlorinated Polyvinyl Chloride (CPVC) Pipe – Nom 6 in. diam (or smaller) SDR17 CPVC pipe for use in closed (process or supply) or vented (drain, waste or vet) piping systems.
   C. Acrylonitrile Butadiene Styrene Pipe – Nom 6 in. diam (or smaller) Schedule 40 solid–core or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vet) piping systems.
   D. Flame Retardant Polypropylene (CPVC) Pipe – Nom 6 in. diam (or smaller) Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vet) piping systems.

Pipe Type	Nom Pipe Diam, in.	T Rating, hr
PVC, CPVC ABS, FRPP	1–1/2, 2, 3	2
PVC, CPVC ABS, FRPP	4,	3
PVC, CPVC ABS+, FRPP	6,	3
ABS++	6,	0

\+ – indicates solid core ABS onl y
++ – indicates cellular core ABS only

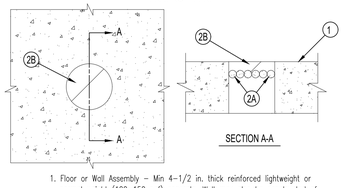
3. Fill, Void or Cavity Material* – Sealant – Min 1/2 in. thickness of fill material applied within the annulus, flush with bottom surface of floor or with both surfaces of wall.
4. Firestop Device* – Firestop Collar – Firestop collar shall be installed in accordance with the accompanying installation instructions. Collar to be installed and latched around the pipe and secured to underside of floor or both sides of wall using the anchor hooks provided with the collar. (Minimum 2 anchor hooks for 1–1/2 and 2 in. diam pipes, 3 anchor hooks for 3 and 4 in. diam pipes, and 6 anchor hooks for 6 in. diam pipes). The anchor hooks are to be secured with 1/4 in. diam by min 1–1/2 in. long steel expansion bolts, or equivalent, in conjunction with steel nuts and min 3/4 in. diam steel washers with one anchor bolt in each anchor hook.
   HILTI, Inc. – CP 643 50/1.5", CP 643 63/2",CP 643 90/3", CP 643 110/4" OR CP 642 160/6" Firestop Collar.

*Bearing the UL Classification Marking

BLANK OPENING IN CONCRETE FLOOR/WALL OR BLOCK WALL

System No. C-AJ-0058

F RATING = 3-HR.
T RATING = 1-HR.



1. Floor or Wall Assembly – Min 4–1/2 in. thick reinforced lightweight or normal weight (100–150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 4 in.
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Firestop System – The firestop system shall consist of the following:
   A. Packing or Forming Materials – One of the following packing or forming materials may be used.
   A1. Foam backer rod tightly packed into the opening as a permanent form. Packing material to be recessed from the top surface of floor or both surfaces of wall as required to accommodate the required thickness of putty.
   A2. Mineral wool batt insulation, min 4 pcf, tightly packed into the opening as a permanent form. Packing material to be recessed from the top surface of floor or both surfaces of wall as required to accommodate the required thickness of putty.
   A3. Forming materials* – Forming material to be foamed into the opening as a permanent form. Forming material to be recessed from the top surface of floor or both surfaces of wall as required to accommodate the required thickness of putty.
      HILTI, Inc. – CP128 Foam Sealant
   B. Fill, Void or Cavity Material* – Putty – Min 3/4 in. thickness of putty applied within the annulus, flush with top surface of floor or with both surfaces of wall.
      HILTI, Inc. – CP 618 Firestop Putty Stick

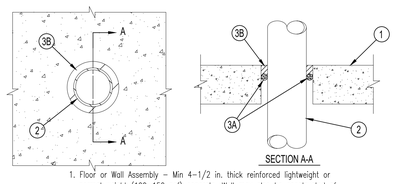
*Bearing the UL Classification Marking

NOTE:
CORING THROUGH SLAB RIBS FOR PIPE/CONDUIT PENETRATIONS SHOULD BE AVOIDED. AT LOCATIONS WHERE PENETRATIONS HAVE BEEN CORED, THE PORTION OF THE OVER CORE THAT IS AWAY FROM THE PIPE SHALL BE INFILLED WITH NON–SHRINK GROUT. FIRE RATING TO BE MAINTAINED.

METAL PIPE THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL

System No. C-AJ-1276

F RATING = 3-HR.
T RATING = 0-HR.



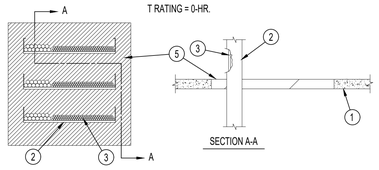
1. Floor or Wall Assembly – Min 4–1/2 in. thick reinforced lightweight or normal weight (100–150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 6 in.
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Through Penetrants – One metallic pipe, conduit or tubing to be centered within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe – Nom 4 in. diam (or smaller) Schedule 10 (or heavier) steel pipe. A nom annular space of 3/4 in. is required within the firestop system.
   B. Conduit – Nom 4 in. diam (or smaller) steel electrical metallic tubing or steel conduit. A nom annular space of 3/4 in. is required within the firestop system.
3. Firestop System – The firestop system shall consist of the following:
   A. Packing or Forming Materials – Optional – One of the following packing or forming materials may be used:
   A1. Foam backer rod tightly packed into the opening as a permanent form. Packing material to be recessed from the top surface of floor or both surfaces of wall as required to accommodate the required thickness of putty.
   A2. Mineral wool batt insulation, min 4 pcf, tightly packed into the opening as a permanent form. Packing material to be recessed from the top surface of floor or both surfaces of wall as required to accommodate the required thickness of putty.
   A3. Forming materials* – Forming material to be foamed into the opening as a permanent form. Forming material to be recessed from the top surface of floor or both surfaces of wall as required to accommodate the required thickness of putty.
      HILTI, Inc. – CP128 Foam Sealant
   B. Fill, Void or Cavity Material* – Putty – Min 1 in. thickness of putty applied within the annulus, flush with top surface of floor or with both surfaces of wall.
      HILTI, Inc. – CP 618 Firestop Putty Stick

*Bearing the UL Classification Marking

CABLE TRAYS THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL

System No. C-AJ-4017

F RATING = 3-HR.
T RATING = 0-HR.



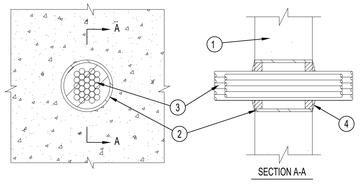
1. Floor or Wall Assembly – Min 2–1/2 in. thick reinforced lightweight or normal weight (100–150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max area of opening is 1024 sq in. with max dimension of 32 in.
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Cable Tray* – The following types of cable trays may be used:
   A. Max 24 in. wide by max 4 in. deep open ladder cable tray with channel–shaped side rails formed of min 0.050 in. thick steel with A–shaped rungs spaced 9 in. OC.
   B. Max 24 in. wide by max 4–3/16 in. deep open ladder cable tray formed of min 0.097 in. aluminum with 7/8 in. wide by 1 in. deep rungs spaced 9 in. OC.
   A max of three cable trays to be installed in the opening. Of the three cable trays only one may be aluminum. The annular space between the cable trays shall be a min 5–1/4 in. The annular space between the cable tray and the periphery of the opening shall be min 1 in. Cable tray to be rigidly supported on both sides of floor or wall assembly.
3. Cables – Aggregate cross–sectional area of cables in cable tray shall be max 30 percent of the cross–sectional area of steel cable tray and max 20 percent of the cross–sectional area of aluminum cable tray, based on a max 3 in. cable loading depth within the cable tray. Any combination of the following types and sizes of copper conductor cables may be used:
   A. Max 350 kcmil single–conductor power cables with polyvinyl chloride (PVC) insulation and jacket.
   B. 7/C No. 12 AWG copper conductor cable with PVC insulation and jacket.
   C. Max 100 pair No. 24 AWG cable with PVC insulation and jacket.
4. Forms – (Not Shown) – Used as a form to prevent leakage of fill material during installation. Forms to be a rigid sheet material, cut to fit the contour of the penetrating item and positioned as required to accommodate the required thickness of fill materials. Forms may be removed after fill material has cured.
5. Fill, Void or Cavity Material* – Trowelable Firestop Compound – Min 2–1/2 in. thickness of fill material applied within the annulus. Fill material is mixed at a rate of 2.5 parts dry mix to one part water by weight in accordance with the installation instructions supplied with fill material.
   HILTI, Inc. – Type FS635

*Bearing the UL Classification Marking

CABLE BUNDLE THROUGH 2-HR CONCRETE WALL ASSEMBLY

System No. W-J-3036

F Rating - 1 and 2 Hr
T Rating - 0 Hr



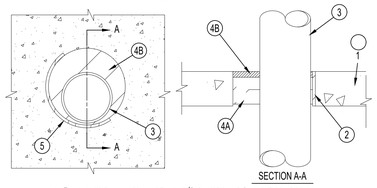
1. Wall Assembly – Min 5 in. thick reinforced lightweight or normal weight (100–150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 4 in.
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Metallic Sleeve – Nom 4 in. diam steel electrical metallic tubing (EMT) or Schedule 5 steel pipe friction fit into wall assembly and installed flush with wall surfaces.
3. Cables –Aggregate cross–sectional area of cables in opening to be max 25 percent of the cross–sectional area of the opening. The annular space between the cable bundle and the periphery of the opening to be min 1/8 in. to max 3/4 in. Cables to be rigidly supported on both sides of the wall assembly. Any combination of the following types and sized of cables may be used:
   A. 6 pair – No. 24 AWG telephone cable with polyvinyl chloride (PVC) insulation and PVC jacket.
   B. 24 fiber optic cable with polyvinyl chloride (PVC) outer and subunit jacket.
   C. Type RGU/59 coaxial cable with polyethylene (PE) insulation and polyvinyl (PVC) jacket
   D. The 2/C No. 10 AWG cable with ground with polyvinyl (PVC) insulation and jacket.
   E. 3/C No. 12 AWG cable with polyvinyl chloride (PVC) insulation in a [illegible] jacket.
4. Fill, Void or Cavity Material* – Sealant – Min 5/8 in. thickness of fill material applied within annulus flush with both surfaces of wall. Fill material to be forced into interstices of cable bundle to the max extent possible on both surfaces of wall. Additional fill material to be installed such that a min 1/4 in. crown is formed around the cable bundle and lapped over the steel sleeve.
   HILTI, Inc. – CP618 Firestop Putty Stick

*Bearing the UL Classification Marking

GLASS PIPE THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL

System No. C-AJ-2118

F RATING = 3-HR.
T RATING = 0-HR.
L Rating At Ambient - Less Than 1 CFM/sq ft
L Rating At 400 F - 4 CFM/sq ft



1. Floor or Wall Assembly – Min 4–1/2 in. thick reinforced lightweight or normal weight (100–150 pcf) concrete floor or min 5 in. thick reinforced lightweight or normal weight concrete wall. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 10 in.
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Metallic Sleeve (Optional) – Nom 10 in. diam (or smaller) Schedule 10 (or heavier) steel pipe cast or grouted into floor or wall assembly, flush with floor or wall surfaces.
3. Through Penetrants* – Glass Pipe – Nom 6 in. diam (or smaller) glass pipe used for use in closed (process or supply) or vented (drain, waste or vent) piping systems. One pipe to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 1/4 in. to max 3–1/2 in. Pipe couplings to be located min 12 in. from floor or wall surfaces. Pipe to be rigidly supported on both sides of floor or wall assembly.
4. Firestop System* – The firestop system shall consist of the following:
   A. Packing Material – Min 4.0 pcf mineral wool batt insulation installed in through opening as a permanent form. Pieces of batt cut to min width of 3–1/2 in. and installed edge–first into opening such that batt sections are tightly–compressed in thickness and such that the compressed batt sections are recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.
   B. Fill, Void or Cavity Material* – Sealant – Min 3/4 in. thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.
      HILTI, Inc. – FS605 or FS–ONE Sealant.

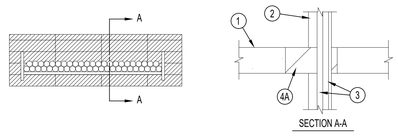
(Note: L ratings apply only when FS–ONE Sealant is used).

*Bearing the UL Classification Marking

CABLE TRAY THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL

System No. C-AJ-4035

F RATING = 3-HR.
T RATING = 0-HR.



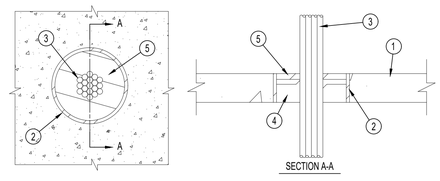
1. Floor or Wall Assembly – Min 4–1/2 in. thick reinforced lightweight or normal weight (100–150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max area of opening is 270 sq in. with max dimension of 30 in.
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Cable Tray* – Max 24 in. wide by max 4 in. deep open–ladder cable tray with channel–shaped side rails formed of 0.10 in. thick aluminum or 0.060 in. thick galv steel and with 1–1/2 in. wide by 1 in. channel shape rungs spaced 9 in. OC. The annular space between the cable tray and the periphery of the opening shall be min 1 in. to max 4 in. Cable tray to be rigidly supported on both sides of floor or wall assembly.
3. Cables – Aggregate cross–sectional area of cables in cable tray to be max 40 percent of the cross–sectional area of the cable tray. Any combination of the following types and sizes of copper conductor or fiber optic cables may be used:
   A. 1/C, 500 kcmil with thermoplastic insulation and PVC jacket.
   B. 300 pair–No. 24 AWG cable with PVC insulation and jacket.
   C. 24 fiberoptic cable with PVC subunit and jacket.
   D. Three 1/C No. 12 AWG wire, insulated with polyvinyl chloride, in a nominal 3/4 in. flexible metal conduit.
4. Firestop System – The firestop system shall consist of the following:
   A. Fill, Void or Cavity Material* – Fire blocks installed with the long dimension placed horizontally within the opening, flush with bottom of floor assemblies. Blocks to completely fill the entire width of opening of wall assemblies.
      HILTI, Inc. – FS–Fire Block
   B. Fill, Void or Cavity Material* – Fill material to be forced into interstices of cables and between cables and cable trays to max extent possible on both surfaces of the penetration.
      HILTI, Inc. – FS–ONE Sealant

*Bearing the UL Classification Marking

SINGLE OR MULTIPLE CABLES THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL

System No. C-AJ-3095

F RATING = 3-HR.
T RATING = 0, 1/2 & 3/4 HR. (See Item 3)



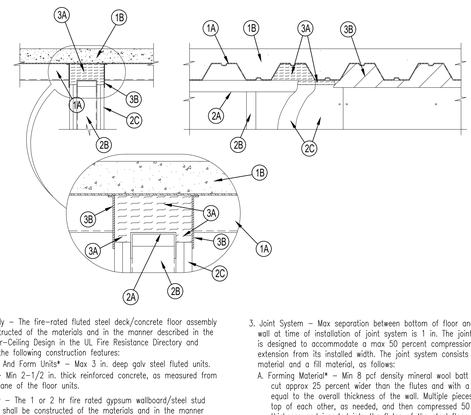
1. Floor or Wall Assembly – Min 2–1/2 in. thick reinforced lightweight or normal weight (100–150 pcf) concrete floor or min 3 in. thick reinforced lightweight or normal weight concrete wall. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 6 in.
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Steel Sleeve (Optional) – Nom 6 in. diam (or smaller) Schedule 10 (or heavier) steel pipe cast or grouted into floor or wall assembly, flush with floor or wall surfaces.
3. Cables – Aggregate cross–sectional area of cables in opening to be min 25 percent to max 45 percent of the aggregate cross–sectional area of the opening. Cables to be rigidly supported on both sides of floor or wall assembly. Any combination of the following types and sizes of metallic conductor or fiber optic cable may be used:
   A. Max 500 kcmil single copper connector power cable with thermoplastic insulation and polyvinyl chloride (PVC) jacket. When single copper conductor power cable is used, T Rating is 0 hr.
   B. Max 350 kcmil single conductor power cables with either aluminum or copper conductors and cross–linked polyethylene (XPLE) insulation. When single aluminum conductor power cable is used, T Rating is 0 hr. When single copper conductor power cable is used, T Rating is 1/2 hr.
   C. Max 300 pair No. 24 AWG copper conductor telecommunication cables with polyvinyl chloride (PVC) insulation and jacket material. When telecommunication cable is used, T Rating is 0 hr.
   D. Max three copper connector No. 6 AWG cable with polyvinyl chloride (PVC) insulation and jacket material. When multi–connector power cable is used, T Rating is 0 hr.
   E. Max 7/C copper conductor no. 12 AWG multiconductor power and control cables with PVC or cross–linked polyethylene (XLPE) insulation and PVC jacket. When multiconductor power and control cable is used, T Rating is 1/4 hr.
   F. Multiple fiber optical communication cables jacketed with PVC and having a max outside diam of 1/2 in. When fiber optic cable is used, T Rating is 3/4 hr.
   G. Max 3/C copper conductor No. 12 AWG with Bare aluminum ground, polyvinyl chloride (PVC) insulated steel, Metal–clad cable+. When MC cable is used, T Rating is 0 hr.
      AFC Cable Systems, Inc.
4. Packing Material – Min 2 in. thickness of min 4.0 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed 1/2 in. from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.
5. Fill, Void or Cavity Material* – Sealant – Min 1/2 in. thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.
   HILTI, Inc. – FS–ONE Sealant

*Bearing the UL Classification Marking

TOP OF WALL JOINT: 1-HR OR 2-HR GYPSUM WALL ASSEMBLY

System No. HW-D-0042

Assembly Ratings - 1 and 2 Hr (See Items 2 & 3A)
Joint Width - 1 In. Max
Class II Movement Capabilities - 50% Compression or Extension



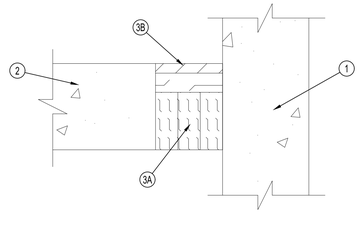
1. Floor Assembly – The fire–rated fluted steel deck/concrete floor assembly shall be constructed of the materials and in the manner described in the individual Floor–Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. Steel Floor And Form Units* – Max 3 in. deep galv steel fluted units.
   B. Concrete – Min 2–1/2 in. thick reinforced concrete, as measured from the top plane of the floor units.
2. Wall Assembly – The 1 or 2 hr fire rated gypsum wallboard/steel stud wall assembly shall be constructed of the materials and in the manner described in the individual U400–Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. Steel Floor And Ceiling Runners – Floor and ceiling runners of wall assembly shall consist of min 25 ga galv steel channels sized to accommodate steel studs (Item 2B). Ceiling runner to be provided with 2 in. flanges. Ceiling runner secured to valleys of steel floor units (Item 1A) with steel fasteners or welds spaced max 12 in. OC.
   B. Studs – Steel studs to be min 2–1/2 in. wide. Studs cut 5/8 to 3/4 in. less in length than assembly height with bottom nesting in and resting on floor runner and with top nesting in ceiling runner without attachment. Stud spacing not to exceed 24 in. OC.
   C. Wallboard, Gypsum* – Wallboard sheets installed to a min total thickness of 5/8 in. or 1–1/4 in. on each side of wall for 1 and 2 hr rated assemblies, respectively. Wall to be constructed as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory, except that a max 1 in. gap shall be maintained between the top of the wallboard and the bottom of the steel floor units and the top row of screws shall be installed into the studs 3–1/2 to 4 in. below the lower surface of the floor.
3. Joint System – Max separation between bottom of floor and top of wall at time of installation of joint system is 1 in. The joint system is designed to accommodate a max 50 percent compression or extension from its installed width. The joint system consists of forming material and a fill material, as follows:
   A. Forming Material* – Min 8 pcf density mineral wool batt insulation cut approx 25 percent wider than the flutes and with a length approx equal to the overall thickness of the wall. Multiple pieces stacked on top of each other, as needed, and then compressed 50 percent in thickness and inserted into the flutes of the steel floor units above the top of the ceiling runner. The mineral wool batt insulation is to project beyond each side of the ceiling runner, flush with wall surfaces. Nom 5/8 in. and 1–1/4 in. wide strips for 1 and 2 hr rated assemblies, repectively, of min 8 pcf mineral wool batt insulation are to be cut to fill the gap between the top of the wallboard and bottom of the steel floor units. The strips of mineral wool are compressed 50 percent and tightly packed, cut edge first, into the gap between the top of the wallboard and bottom of the steel floor units on both sides of the wall.
      Rock Wool Mfg. Co. – Delta–8
   B. Fill, Void or Cavity Material* – Min 1/8 in. wet thickness of fill material sprayed or troweled on each side of the wall to completely cover mineral wool forming material and to overlap a min of 1/2 in. onto wallboard and steel deck on both sides of wall.
      HILTI, Inc. – CP 672 Firestop Spray

*Bearing the UL Classification Marking

FIRE-RATED JOINT THROUGH CONCRETE FLOOR ASSEMBLY

System No. FW-D-1012

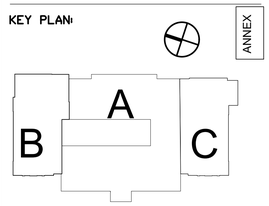
Assembly Rating - 2 Hr
Nominal Joint Width - 3-3/4"
Class II Movement Capabilities - 7% Compression or Extension



1. Wall Assembly – Min 4–1/2 in. thick reinforced lightweight or normal weight (100–150 pcf) structural concrete. Wall may also be constructed of any UL Classified Concrete Blocks*.
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Floor Assembly – Min 4–1/2 in. thick reinforced lightweight or normal weight (100–150 pcf) structural concrete.
3. Joint System – Max separation between edge of floor and face of wall (at time of installation of joint system) is 3–3/4 in. The joint system is designed to accommodate a max 7 percent in compression or extension from its installed width. The joint system shall consist of the following:
   A. Packing Material – Min 4 pcf mineral wool batt insulation installed in joint opening as a permanent form. Pieces of batt cut to min width of 3 in. and installed edge–first into joint opening, parallel with joint direction, such that batt sections are compressed min 17 percent in thickness and that the compressed batt sections are recessed from top surface of the floor. A 1 in. thickness of packing material is placed horizontally over the installed lower layers and recessed from the top surface as required to accommodate the required thickness of fill material. Adjoining lengths of batt to be tightly–butted with butted seams spaced min 24 in. apart along the length of the joint.
   B. Fill, Void or Cavity Material* – Sealant – Min 1/2 in. thickness of fill material applied within the joint, flush with top surface of floor.
      HILTI, Inc. – CP606 Flexible Firestop Sealant

*Bearing the UL Classification Marking

KEY PLAN:



No.	Date	Description
	12/08/25	OUT TO BID
	12/03/25	DCA Submission

Revisions / Issues

DIGroupArchitecture
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Richard D. Alderiso , AIA
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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date: 04/24/2025
Drawn By: TC
Checked By: KG

Sheet Name:
FIRESTOPPING DETAILS

Sheet No:
A-004
Sheet 001 of 000

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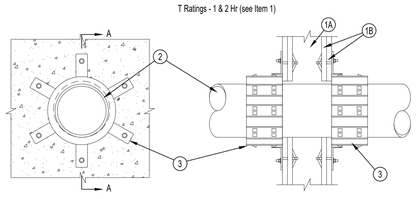
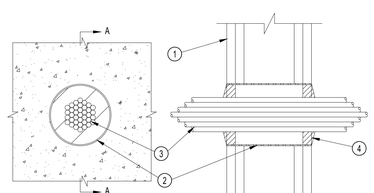
PLASTIC PIPE THROUGH 1-HR OR 2-HR GYPSUM WALL ASSEMBLY
System No. W-L-2078
F Ratings - 1 & 2 Hr (See Item 1)
T Ratings - 1 & 2 Hr (see Item 1)



SECTION A-A

1. Wall Assembly – The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the construction features noted below. The hourly F Rating and T Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed:
   A. Studs – Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.
   B. Wallboard, Gypsum* – Nom 5/8 in. thick gypsum wallboard, as specified in the individual Wall and Partition Design. Max diam of opening is 7 in.
2. Through-Penetrants – One nonmetallic pipe, conduit or tubing to be installed within the firestop system. The annular space between pipe and periphery of opening shall be min 0 in. (point contact) to max 1/2 in. Pipe or conduit to be rigidly supported on both sides of the wall assembly. The following types and sizes of nonmetallic pipes may be used:
   A. Polyvinyl Chloride (PVC) Pipe – Nom 6 in. diam (or smaller) Schedule 40 solid-core or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
   B. Chlorinated Polyvinyl Chloride (CPVC) Pipe – Nom 6 in. diam (or smaller) SDR17 CPVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
   C. Acrylonitrile Butadiene Styrene (ABS) Pipe – Nom 6 in. diam (or smaller) Schedule 40 solid-core or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
   D. Flame Retardant Polypropylene (FRPP) Pipe – Nom 6 in. diam (or smaller) Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
3. Firestop Device* – Firestop Collar – Firestop collar shall be installed in accordance with the accompanying installation instructions. Collar to be installed and latched around the pipe and secured to both sides of the wall using the anchor hooks provided with the collar. (Minimum 2 anchor hooks for 1-1/2 and 2 in. diam pipes, 3 anchor hooks for 3 and 4 in. diam pipes, and 6 anchor hooks for 6 in. diam pipes). The anchor hooks are to be secured to the surface of wall with 3/16 2-1/2 in. long toggle bolts along with washers.
   HILTI, Inc. – CP 643 50/1.5", CP 643 63/2",
   CP 643 90/3", CP 643 110/4" or CP 642 160/6" Firestop Collar
*Bearing the UL Classification Marking

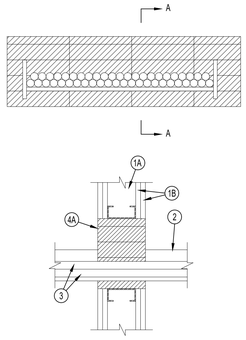
CABLE BUNDLE THROUGH 1-HR OR 2-HR GYPSUM WALL ASSEMBLY
System No. W-L-3111
F Ratings - 1 and 2 Hr
T Rating - 0 Hr



SECTION A-A

1. Wall Assembly – The fire – rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified if the individual U300 or U400 Series Wall and Partition Designs in the Fire Resistance Directory and shall include the following construction features:
   A. Studs – Wall framing shall consist of either wood studs or channel shaped steel studs. Wood studs to consist of 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide, fabricated from min 25 MSG galvanized steel, spaced max 24 in. OC.
   B. Wallboard, Gypsum* – 5/8 in. 4 ft wide with square or tapered edges. The gypsum wallboard type, number of layers and sheet orientation shall be as specified in the individual U300 or U400 Series Designs in the UL Fire Resistance Directory. Max diam of opening is 4 in.
2. Metallic Sleeve – Nominal 4 in. diam steel electrical metallic tubing (EMT) or Schedule 5 steel pipe friction fit into wall assembly and installed flush with wall surfaces.
3. Cables – Aggregate cross – sectional area of cables to be max 25 percent of the cross – sectional area of the opening. The annular space between the cable bundle and the periphery of the opening to be min 1/8 in. to max 3/4 in. Cables to be rigidly supported on both sides of the wall assembly. Any combination of the following types and sizes of cables may be used:
   A. 6 pair – No. 24 AWG telephone cable with polyvinyl chloride (PVC) insulation and PVC jacket.
   B. 24 fiber optic cable with polyvinyl chloride (PVC) outer and subunit jacket.
   C. Type RGU/59 coaxial cable with polyethylene (PE) insulation and polyvinyl (PVC) jacket.
   D. The 2/C No. 10 AWG cable with ground with polyvinyl (PVC) insulation and jacket.
   E. 3/C No. 12 AWG cable with polyvinyl chloride (PVC) insulation in a nominal 1/2 in. flexible metal conduit.
4. Fill, Void or Cavity Material* – Putty – Min 5/8 in. thickness of fill material applied within annulus flush with both surfaces of wall. Fill material to be forced into interstices of cable bundle to the max extent possible on both surfaces of wall. Additional fill material to be installed such that a min 1/4 in. crown is formed around the cable bundle and lapped over the steel sleeve.
   HILTI, Inc. – CP618 Firestop Putty Stick
*Bearing the UL Classification Marking

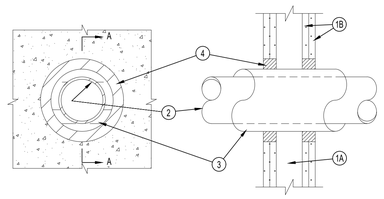
CABLE TRAY THROUGH 1-HR OR 2-HR GYPSUM WALL ASSEMBLY
System No. W-L-4011
F Rating - 1 and 2 Hr (See Item 1)
T Rating - 0 Hr
L Rating At Ambient - 5 CFM/Sq Ft
L Rating At 400 F - 2 CFM/Sq Ft



SECTION A-A

1. Wall Assembly – The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs – Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC. Additional framing member shall be installed in stud cavity containing through-penetrating item to form a rectangular box around penetrant.
   B. Wallboard, Gypsum* – 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max size of opening 9 in. by 30 in.
   The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed. Min. finished wall thickness is 5 in.
2. Cable Tray* – Max 24 in. wide by max 4 in. deep open-ladder cable tray with channel-shaped side rails formed of 0.10 in. thick aluminum or 0.060 in. thick steel and with 1-1/2 in. wide by 1 in. channel shape rungs spaced 9 in. OC. The annular space between the cable tray and the periphery of the opening shall be min 1 in. to max 4 in. Cable tray to be rigidly supported on both sides of floor or wall assembly.
3. Cables – Aggregate cross-sectional area of cables in cable tray to be max 40 percent of the cross-sectional area of the cable tray. Any combination of the following types and sizes of copper conductor cables may be used:
   A. 1/C, 500 kcmil with thermoplastic insulation and PVC jacket.
   B. 300 pair – No. 24 AWG cable with PVC insulation and jacket
   C. Twenty-four fiberoptic cable with PVC subunit and jacket.
   D. Max three 1/C, No. 12 AWG wire, insulated with polyvinyl chloride, in a nom 3/4 in. Flexible Metal Conduit+.
4. Firestop System – The firestop system shall consist of the following:
   A. Fill, Void or Cavity Material* – For walls 5 in. thick or less. Fire blocks centered within depth of opening with the long dimension placed horizontally. For walls greater than 5 in. thick, fire blocks installed with long dimension passed through the opening. In both cases, blocks to completely fill the entire volume of the opening in the wall assembly.
      HILTI, Inc – FS-Fire Block
   B. Fill, Void or Cavity Material* – Fill material to be forced into interstices of cables and between cables and cable trays to max extent possible on both surfaces of the penetration.
      HILTI, Inc – FS-ONE Sealant
   +Bearing the UL Listing Mark
*Bearing the UL Classification Marking

INSULATED METAL PIPE THROUGH 1-HR OR 2-HR GYPSUM WALL ASSEMBLY
System No. W-L-5028
F Ratings - 1 and 2 Hr (See Item 1)
T Ratings - 1/2 and 3/4 Hr



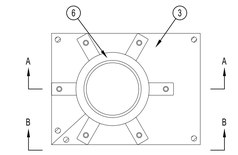
SECTION A-A

1. Wall Assembly – The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs – Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.
   B. Wallboard, Gypsum* – 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 7-1/2 in.
   The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
2. Through Penetrants – One metallic pipe, conduit or tubing to be centered within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe – Nom 4 in. diam (or smaller) Schedule 40 (or heavier) steel pipe.
   B. Conduit – Nom 4 in. diam (or smaller) electrical metallic tubing or steel conduit.
   C. Copper Tubing – Nom 2 in. diam (or smaller) Type L (or heavier) copper tubing.
   D. Copper Pipe – Nom 2 in. diam (or smaller) Regular (or heavier) copper pipe.
3. Tube Insulation – Plastics+ – Nom 3/4 in. thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing. An annular space of min 0 in. (point contact) to max 1-1/2 in. is required within the firestop system.
   See Plastics+ (QMFZ2) category in the Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL 94 Flammability Classification of 94-5VA may be used.
   The hour T Rating of the firestop system is dependent on the hourly fire rating of the wall assembly in which it is installed, the size and type of through penetrant and the pipe covering thickness, as shown in the table below:

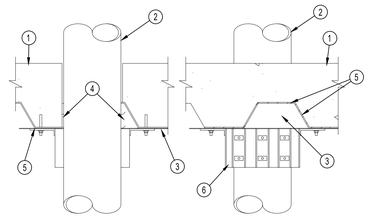
Wall Assembly Rating Hr	Through Penetrant Type+	Max Diam In.	T Rating Hr
1	A or B	4	1/2
1	A, B, C or D	2	3/4
2	A or B	4	1/2
2	A, B, C or D	2	3/4

   +Indicates penetrant type as itemized in Item 2.
4. Fill, Void or Cavity Material* – Sealant – Min 5/8 in. or 1-1/4 in. thickness of fill material applied within the annulus, flush with both surfaces of wall for 1 or 2 hr walls, respectively. At the point contact location between pipe covering and gypsum wallboard, a min 1/2 in. diam bead of fill material shall be applied at the pipe covering/gypsum wallboard interface on both surfaces of wall.
   HILTI, Inc. – FS611A or FS-ONE Sealant
*Bearing the UL Classification Marking

PLASTIC PIPE THROUGH CONCRETE FLOOR WITH METAL DECK
System No. F-A-2025
F RATING = 2-HR.
T RATING = 2 HR.



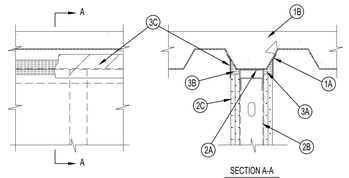
BOTTOM VIEW



SECTION A-A SECTION B-B

1. Floor Assembly – The fire-rated unprotected concrete and steel floor assembly shall be constructed of the materials and in the manner specified in the individual D900 Series designs in the UL Fire Resistance Directory and as summarized below:
   A. Normal Weight Concrete – Normal weight concrete with carbonate siliceous aggregate, 145 to 155 pcf unit weight, min 3000 psi compressive strength.
   B. Welded Wire Fabric – 6x6-W1.4xW1.4.
   C. Steel Floor and Form Units* – Composite or noncomposite 3 in. deep fluted galv units as specified in the individual Floor-Ceiling design. Max diam of opening core-drilled through floor assembly is 7 in.
2. Through Penetrants – One nonmetallic pipe to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe and periphery of opening shall be min 0 in. (point contact) to max 1/2 in. Pipe to be rigidly supported on both sides of floor assembly. The following types and sizes of nonmetallic pipes may be used:
   A. Polyvinyl Chloride (PVC) Pipe – Nom 6 in. diam (or smaller) Schedule 40 solid core of cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
   B. Chlorinated Polyvinyl Chloride (CPVC) Pipe – Nom 6 in. diam (or smaller) SDR17 CPVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
   C. Acrylonitrile Butadiene Styrene (ABS) Pipe – Nom 6 in. diam (or smaller) Schedule 40 solid core or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
   D. Flame Retardant Polypropylene (FRPP) Pipe – Nom 6 in. diam (or smaller) Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
3. Metal Plate Enclosure – Min 18 ga. steel. Width of plate to be min 12 in. Length of plate (transverse to steel floor unit direction) to extend to steel floor unit valley beyond each side of core-drilled hole with a min lap of 1-1/2 in. on the floor unit valley at each end. Both ends of plate perpendicular to floor unit valleys to be cut to permit the ends to be bent upwards 90 F to follow the contour of the floor unit, enclosing the puncture (Item 4) within the areas of the flutes. The contoured plate ends shall be such that the gap between the floor unit and the plate ends is no greater than 1/4 in. Circular cutout in plate to tightly follow circumference of nonmetallic pipe with side edges of plate at least 3 in. from circular cutout on all sides. Slit made in plate to permit installation around the nonmetallic pipe to be located at end of plate beneath floor unit valley nearest to the circular cutout. Plate secured to valleys of floor unit using min 1/4 in. diam by 1-3/4 in. long steel expansion bolts, or equivalent, in conjunction with min 3/4 in. diam steel washers. Fasteners to be located approx 1 in. from edges of plate at each corner, at each plate/valley intersection and at both sides of slit made to permit installation around nonmetallic pipe. Spacing of fasteners not to exceed 10 in. OC.
4. Packing Material – Mineral wool batt insulation having min density of 4 pcf, firmly packed into flutes of steel floor units above metal plate enclosure (Item 3) to completely fill cavities.
5. Fill, Void or Cavity Material* – Sealant – Nom 1/2 in. bead of fill material applied around the perimeter of the metal plate enclosure at the interface of the enclosure and steel deck.
   HILTI, Inc. – FS601, FS611A or FS-ONE Sealant
6. Firestop Device* – Firestop Collar – Firestop collar shall be installed in accordance with the accompanying installation instructions. Collar to be installed and latched around the pipe and secured to the valley of the steel deck and to the metal plate enclosure using the anchor hooks provided with the collar. (Minimum 2 anchor hooks for 1-1/2 and 2 in. diam pipes, 3 anchor hooks for 3 and 4 in. diam pipes, and 6 anchor hooks for 6 in. diam pipes). Where the anchor hooks are beneath the valley of the steel floor unit, the anchor tabs are to be secured with 1/4 in. diam by min 1-1/2 in. long steel expansion bolts, or equivalent, in conjunction with steel nuts and min 3/4 in. diam steel washers with one anchor bolt in each anchor hook. Where the anchor hooks are beneath the crest of the steel deck, the anchor hooks are to be secured to the metal enclosure with No.10 by min 1/2 in. long self-drilling, self-tapping steel screws and washers.
   HILTI, Inc. – CP 643 50/1.5", CP 643 63/2", CP 643 90/3",
   CP 643 110/4", or CP 642 160/6" Firestop Collar
*Bearing the UL Classification Marking

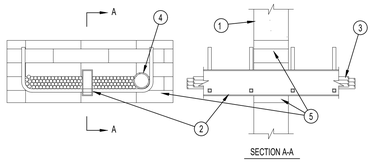
TOP OF WALL JOINT: 1-HR OR 2-HR GYPSUM WALL ASSEMBLY
System No. HW-D-0049
Assembly Ratings - 1 and 2 Hr (See Items 2 and 3B)
Nominal Joint Width - 1 In.
Class II Movement Capabilities - 50% Compression or Extension



SECTION A-A

1. Floor Assembly – The fire-rated fluted steel deck/concrete floor assembly shall be constructed of the materials and in the manner described in the individual Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. Steel Floor and Form Units* – Max 3 in. deep galv fluted units.
   B. Concrete – Min 2-1/2 in. thick reinforced concrete, as measured from the top plane of the floor units.
2. Wall Assembly – The 1 or 2 hr fire-rated gypsum wallboard/steel stud assembly shall be constructed of the materials and in the manner described in the individual U400-Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Steel Floor and Ceiling Runners – Floor and ceiling runners of wall assembly shall consist of min 25 gauge galv steel channels sized to accommodate steel studs (Item 2B). Ceiling runner to be provided with 2 in. flanges. Ceiling runner secured to valleys of steel floor units (Item 1A) with steel fasteners spaced max 12 in. OC.
   B. Studs – Steel studs to be min 2-1/2 in. wide. Studs cut 5/8 to 3/4 in. less in length than assembly height with bottom nesting in and resting on floor runner and with top nesting in ceiling runner without attachment. Stud spacing not to exceed 24 in. OC.
   C. Wallboard, Gypsum* – Wallboard sheets installed to a min total thickness of 5/8 or 1-1/4 in. on each side of wall, for 1 and 2 hr. rated assemblies, respectively. Wall to be constructed as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory, except that a nom 1 in. gap shall be maintained between the top of the wallboard and the bottom of the steel floor units and the top row of screws shall be installed into the studs 3-1/2 to 4 in. below the lower surface of the floor.
3. Joint System – Max separation between bottom of floor and top of wall at time of installation of joint system is 1 in. The joint system is designed to accommodate a max 50 percent compression or extension from its installed width. The joint system consists of forming material and a fill material, as follows:
   A. Forming Material* – Nom 5/8 to 1-1/4 in. wide by 1-1/2 in. high strips of min 8 pcf mineral wool batt insulation are to be cut to fill the 1 in. gap between the top of the wallboard and bottom of the steel floor units. The strips of mineral wool are compressed and firmly packed, cut edge first, into the gap between the top of the wallboard and bottom of the steel floor units on both sides of the wall.
      Rock Wool Mfg. Co. – Delta-8
   B. Fill, Void or Cavity Material* – Min 1/8 in. wet thickness of fill material sprayed or troweled on each side of the wall to completely cover mineral wool forming material and to overlap a min of 1/2 in. onto wallboard and steel deck on both sides of wall.
      HILTI, Inc. – CP672 Firestop Spray
*Bearing the UL Classification Marking

SPINE CABLE TRAY THROUGH 2-HR CONCRETE WALL OR CONCRETE BLOCK WALL
System No. W-J-4016
F Rating - 2 Hr
T Rating - 0 Hr

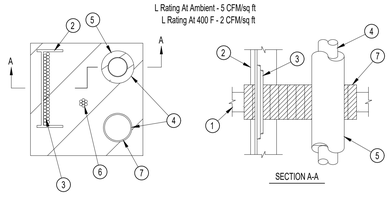


SECTION A-A

1. Wall Assembly – Min 5 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max area of opening is 216 in. with a max dimension of 24 in.
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Cable Tray+ – Max 18 in. wide by 6 in. deep "spine" cable tray. The 1-1/2 in. wide by 2-3/4 in. deep tubular spine formed of 0.121 in. thick aluminum. The 6 in. deep "U" shaped rungs space 6 in. OC formed from 1/2 in. by 1/2 in. extruded aluminum tube. One cable tray to be installed in the opening. The max annular space between the periphery of the opening shall be min 1 in. to 2-5/8 in. max. Cable tray to be rigidly supported on both sides of wall assembly.
3. Cables –Aggregate cross-sectional area of cables in cable tray to be max 22 percent of the cross-sectional area of the cable tray based on a max 6 in. cable loading depth within the cable tray. Any combination of the following types and sized of cables may be used:
   A. 6 pair – No. 24 AWG telephone cable with polyvinyl chloride (PVC) insulation and PVC jacket.
   B. 24 fiber optic cable with polyvinyl chloride (PVC) outer and subunit jacket.
   C. 3 pair No. 24 AWG CMP computer cable with polyvinyl chloride (PVC) insulation and jacket
   D. Type RGU/59 coaxial cable with polyethylene (PE) insulation and polyvinyl (PVC) jacket
   E. The 2/C No. 10 AWG cable with ground with polyvinyl (PVC) insulation and jacket.
   F. 3/C No. 12 AWG MC cable with polyvinyl chloride (PVC) insulation in a nominal 1/2 in. flexible metal conduit.
4. Electrical Nonmetallic Tubing (ENT) – One nom 2 in. diam (or smaller) corrugated wall ENT constructed of polyvinyl chloride.
   See Electrical Nonmetallic Tubing (FXHU) category in the Electrical Construction Materials Directory for names of manufacturers.
5. Firestop System – The firestop system shall consist of the following:
   A. Fill, Void or Cavity Material* – Fire blocks – Fire blocks installed with min. 5 in. dimension passing through the opening. Blocks to completely fill the entire opening.
      HILTI, Inc. – FS-Fire Block

NOTE:
CORING THROUGH SLAB RIBS FOR PIPE/CONDUIT PENETRATIONS SHOULD BE AVOIDED. AT LOCATIONS WHERE PENETRATIONS HAVE BEEN CORED, THE PORTION OF THE OVER CORE THAT IS AWAY FROM THE PIPE SHALL BE INFILLED WITH NON-SHRINK GROUT. FIRE RATING TO BE MAINTAINED.

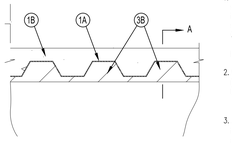
MULTIPLE ITEMS THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL
System No. C-AJ-8056
F RATING = 3-HR.
T RATING = 0 HR.
L Rating At Ambient - 5 CFM/sq ft
L Rating At 400 F - 2 CFM/sq ft



SECTION A-A

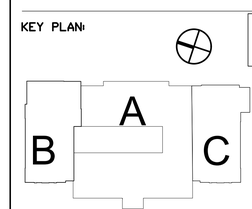
1. Floor or Wall Assembly – Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max area of opening is 1296 sq in. with max dimension of 36 in.
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Cable Tray* – Max 18 in. wide by max 6 in deep open-ladder cable tray with channel-shaped side rails formed of 0.060 in. thick aluminum or steel and with 1-1/2 in. wide by 1 in. channel shape rungs spaced 9 in. OC. One cable tray to be installed in the opening . The max annular space between the cable trays is 9 in. and between the periphery of the opening shall be min 1-1/2 in. to max 4-1/2 in. Cable tray to be rigidly supported on both sides of floor or wall assembly.
3. Cables – Aggregate cross-sectional area of cables in cable tray to be max 30 percent of the cross-sectional area of the cable tray based on a max 3 in. cable loading depth within the cable tray. Any combination of the following types and sizes of copper conductor or fiber optic cables may be used:
   A. 7/C No. 12 AWG with polyvinyl chloride (PVC) insulation and PVC jacket.
   B. 300 pair – No. 24 AWG cable with PVC insulation and jacket.
5. Pipe Covering* – Nom 1-1/2 in. thick hollow cylindrical heavy density (min 3.5 pcf) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product.
   See Pipe and Equipment Covering – Materials (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
6. Cables – Max 2 in. diam tight bundle of cables centered in opening and rigidly supported on both surfaces of floor and wall. Any combination of the following types and sizes of cables may be used:
   A. 7/C No. 12 AWG with polyvinyl chloride (PVC) insulation and PVC jacket.
   B. 25 pair – No. 24 AWG cable with PVC insulation and jacket.
   C. 2/C No. 10 AWG cable with PVC insulation and jacket.
   D. 3/C No. 8 AWG aluminum clad cable with cross-linked polyethylene (XLPE) insulation and PVC jacket.
   E. Type RC – 6Ω A/U coaxial cable with air core and PVC jacket.
   F. 24 fiber optic cable with PVC sub unit and jacket.

TOP OF WALL JOINT: 2-HR CONCRETE WALL OR BLOCK WALL ASSEMBLY
System No. HW-D-0080
Assembly Rating - 2 Hr
Nominal Joint Width - 3/4 in.
Class II Movement Capabilities - 33% Compression or Extension



1. Floor Assembly – The fire-rated fluted steel floor unit/concrete floor assembly shall be constructed of the materials and in the manner described in the individual Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. Steel Floor and Form Units* – Max 3 in. deep galv steel fluted floor units.
   B. Concrete – Min 2-1/2 in. thick reinforced concrete, as measured from the top plane of the floor units.
2. Wall Assembly – Min 5 in. thick reinforced lightweight or normal weight (100-150 pcf) structural concrete. Wall may also be constructed of any UL Classified Concrete Blocks*
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
3. Joint System – Max separation between bottom of floor and top of wall is 3/4 in. The joint system is designed to accommodate a max 33 percent. compression or extension from its installed width. The joint system consists of a packing material and a fill material between the top of the wall and the bottom of the steel floor units, as follows:
   A. Forming Material* – Min 4-1/2 in. thickness of min 4 pcf density mineral wool batt insulation was cut to the shape of the fluted deck, approximately 20 percent larger than the area of the flutes and compressed into the flutes of the steel floor units above the wall assembly. The forming material shall be recessed 1/4 in. from each side of the wall.
      Fibrex Insulations, Inc. – FBX Safing Insulation
   B. Fill, Void or Cavity Material* – Sealant – Min 1/4 in. thickness of fill material installed on each side of the wall in the flutes of the steel floor units and between the top of the wall and the bottom of the steel floor units, flush with each surface of the wall.
      HILTI, Inc. – CP601S Elastomeric Firestop Sealant
*Bearing the UL Classification Marking

KEY PLAN:



No.	Date	Description
	12/08/25	OUT TO BID
	12/03/25	DCA Submission

Revisions / Issues

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DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date: 04/24/2025
Drawn By: TC
Checked By: KG

Sheet Name:
FIRESTOPPING DETAILS

Sheet No:
A-005
Sheet 001 of 000

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GENERAL NOTES:
PRIOR TO THE START OF DEMOLITION

1. ALL ITEMS INDICATED FOR REMOVAL SHALL BE DISPOSED OF LEGALLY IN ACCORDANCE WITH THE SPECIFICATIONS UNLESS OTHERWISE NOTED.
2. THE GENERAL CONTRACTOR SHALL REMOVE ALL LOOSE FURNITURE, EQUIPMENT AND APPLIANCES PRIOR TO THE START OF DEMOLITION. THE CONTRACTOR SHALL VERIFY THAT ALL LOOSE FURNITURE, PICTURES, FLOOR MATS, FIRE EXTINGUISHERS, FLAGS, PLANTS, PLAQUES, ETC. HAVE BEEN REMOVED FROM EACH ROOM AREA.
3. TEMPORARY LIGHTING IS TO BE PROVIDED BY CONTRACTOR. LIGHT LEVELS TO BE ADEQUATE FOR THE SAFE PERFORMANCE OF DEMOLITION AND CONSTRUCTION ACTIVITIES.
4. PROVIDE AND INSTALL DUST PROTECTION IN AREAS OF WORK TO MINIMIZE THE AFFECTED AREA OF CLEANUP. ALL AREAS NOTED TO BE NOT IN CONTRACT SHALL BE PROTECTED BY GC. AFTER THE DEMOLITION HAS BEEN COMPLETED, EACH AREA SHALL BE BROOM SWEPT, WIPED DOWN AND VACUUMED REMOVING ALL DEBRIS AND DUST.
5. AT EXISTING TERRAZZO CORRIDOR FLOORS, THE CONTRACTOR SHALL PROVIDE AND INSTALL ½" THICK SHEET "MASONITE" PROTECTION BOARDS PLACED EDGE-TO-EDGE WITH ALL BUTT JOINTS TAPED TO PROTECT EXISTING SURFACES ADJACENT TO THE CORRIDOR ENTRANCE WORK AREAS.
6. PROVIDE AND INSTALL ANY AND ALL REQUIRED TEMPORARY SUPPORT, SHORING, BRACING AND / OR NEEDLING TO STABILIZE AND SUPPORT EXISTING BUILDING FRAMING FOR FLOORS, CEILINGS AND WALLS CONCERNING THE WORK DESCRIBED IN THE CONTRACT DOCUMENTS.
7. PRIOR TO THE REMOVAL OF LIGHTING, EXIT SIGNS, SMOKE DETECTORS, FIRE STROBES, AND PARTITIONS, DISCONNECT / CAP OR TERMINATE ALL ELECTRICAL CIRCUITING AT DISTRIBUTION PANELS, TO FACILITATE WORK SHOWN ON DRAWINGS.
8. ALL EXISTING MECHANICAL, I.T. CIRCUITING AND ELECTRICAL LINES OR CIRCUITS ATTACHED TO EXISTING ASSEMBLIES AND EQUIPMENT SLATED FOR REMOVAL, SHALL BE PROTECTED, MAINTAINED AND REATTACHED OR SECURED TO NEW WORK, EXISTING ADJACENT SURFACES, OR NEW EQUIPMENT.
9. ANY HOLES CREATED IN WALLS, FLOOR, CEILING DURING THE DEMOLITION OR CONSTRUCTION OF THIS PROJECT SHALL BE PATCHED AND FINISHED MATCHING EXISTING ADJACENT ASSEMBLIES BY GENERAL CONTRACTOR.
10. NOTIFY THE ARCHITECT IF EXISTING PLUMBING LINES, DUCTWORK, AND ELECTRICAL LINES SCHEDULED FOR REMOVAL ARE REQUIRED FOR SERVICING OTHER AREAS OF THE BUILDING. DO NOT REMOVE ABOVE MENTIONED EQUIPMENT WITHOUT INSTRUCTIONS FROM THE ARCHITECT.
11. REFERENCE MECHANICAL, ELECTRICAL, PLUMBING DRAWINGS FOR ADDITIONAL DEMOLITION NOTES.
12. IN AREAS WITH EXISTING WOOD FLOORING SUBSTRATE, DAMAGED WOOD SUBSTRATE TO BE REMOVED AND 1/4" PLYWOOD IS TO BE INSTALLED THROUGHOUT.
13. IN THE AREAS WITH EXISTING CONCRETE FLOORING SUBSTRATE, AND SELF-LEVELING CONCRETE OF ABOUT 1/4" THROUGHOUT.
14. AT THE THIRD FLOOR ABATED FLOORING AREAS, PATCH, SAND, PRIME AND A SKIM COAT FLOOR WITH SELF LEVELING CONCRETE OF 1/4".
15. PATCH ALL FLOORING SEAMS IN AREAS WHERE FLOORING MATERIAL REMAINS.
16. DEMO AREAS OF EXISTING VCT WHERE NOTED AND ALL AREAS OF VCT WHERE THE VCT IS NOT FULLY ADHERED TIGHT TO THE EXISTING SUBSTRATE.
17. FOLLOWING DEMO OF MATERIALS, REPLACE ALL AREAS OF DELAMINATED, SPONGY, EXISTING BUILDERS GRADE PLYWOOD TO STRENGTHEN AND PROVIDE A SOUND BASE TO INSTALL SPECIFIED FLOORING UPON.

AREA OF DEMOLITION WORK ONLY AS DEFINED IN CONTRACT DOCUMENTS.

AREA OF LIMITED WORK BASED ON MEPFP MODIFICATIONS AS DEFINED IN CONTRACT DOCUMENTS.

INTERIOR DEMOLITION KEY NOTES:

D1 PREP EXISTING CONCRETE FLOOR SLAB FOR PAINT. REMOVE ALL LOOSE DIRT, DEBRIS, AND OLD PAINT. SCARIFY, SCRUB EXISTING SLAB WITH DETERGENT TO REMOVE ALL OIL AND GREASE. ALLOW EXISTING SLAB TO FULLY DRY BEFORE APPLYING PRIMER / PAINT.

D2 PREP EXISTING MASONRY WALLS FOR PAINT. SCRAPE AND REMOVE ALL LOOSE OLD PAINT. REMOVE EXISTING VINYL WALL BASE AND REMAINING ADHESIVE, PREP SURFACE FOR NEW BASE FINISH AS SPECIFIED.

D3 REMOVE EXISTING PARTITION IN ITS ENTIRETY OR PORTION AS SHOWN AND DISPOSE, INCLUDING ALL DOORS, FRAMES, WINDOWS, ETC.WITHIN. PREP ADJACENT PLASTER FINISH TO RECEIVE NEW FINISH. PATCH + PREP FLOOR FOR NEW FINISHES.

3A REMOVE EXISTING MOVEABLE WALL ASSEMBLY INCLUDING ALL FRAMING, STRUCTURE, SUPPORTS, ENCLOSURES AND TRACKS. PATCH FLUSH AND SMOOTH ALL DISTURBED WALLS, FLOORS AND CEILING.

D4 REMOVE EXISTING CHAIN HUNG / THREADED ROD SUSPENDED LIGHTING FIXTURES IN THEIR ENTIRETY. REFER TO ELECTRICAL DEMOLITION PLANS FOR ADDITIONAL INFORMATION.

D5 REMOVE EXISTING BUILT-IN WOOD SHELVING / CLOSET IN ITS ENTIRETY AND DISPOSE. PREPARE ADJACENT SURFACES TO RECEIVE NEW FINISH.

D6 REMOVE EXISTING WOOD DOORS AND FRAME ASSEMBLY AND DISPOSE. MODIFY OPENING TO RECEIVE NEW DOOR AND FRAME ASSEMBLY AS SPECIFIED. PROVIDE AND INSTALL NEW LINTEL AS SHOWN ON STRUCTURAL DRAWING LINTEL SCHEDULE.

D7 REMOVE EXISTING RECESSED METAL LOCKERS IN THEIR ENTIRETY AND DISPOSE. PREP ADJACENT SURFACES FOR PARTITION INFILL.

D7A REMOVE EXISTING METAL LOCKERS IN THEIR ENTIRETY AND DISPOSE. PATCH AND REPAIR ADJACENT SURFACES AND PREPARE FOR NEW SCHEDULED FINISHES.

D8 REMOVE EXISTING FINISHES IN THEIR ENTIRETY (FLOOR, BASE, WALLS AND CEILING) AND DISPOSE. REFER TO EXISTING FINISH SCHEDULE FOR RECORD OF FINISHES.
- CARPET - TO BE REMOVED
- VCT - TO BE REMOVED
- CERAMIC TILE - TO REMAIN U.O.N.
- TERRAZZO - TO REMAIN, PREP FOR NEW FLOOR FINISH
- TILE BASE - TO REMAIN U.O.N.
- RUBBER BASE - TO BE REMOVED
- RUBBER BASE ON EXISTING WOOD - ONLY RUBBER TO BE REMOVED
- ACOUSTICAL CEILING TILE & GRID - TO BE REMOVED
- TACK BOARDS - TO BE REMOVED
- WHITEBOARDS - TO BE REMOVED
- WALL MOUNTED ITEMS - TO BE REMOVED
- WOOD BASE - TO REMAIN

D9 DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES IN THEIR ENTIRETY AND DISPOSE. REFER TO ELECTRICAL PLANS FOR ADDITIONAL INFORMATION. REMOVE EXISTING CEILING TILES, GRID & DEVICES. REFER TO ELECTRICAL PLANS FOR ADDITIONAL INFORMATION ON DISPOSAL OR REINSTALLATION OF DEVICES. SEE MECHANICAL DEMO PLANS FOR ALL OUTLETS/ PIPING TO BE REMOVED IN THEIR ENTIRETY.

D10 DISCONNECT AND REMOVE ALL ELECTRICAL AND DEVICES INCLUDING WIRE MOLD, RECEPTACLES, SWITCHES, DATA, FIRE ALARM PULL STATIONS, HORN STROBES, CLOCKS, ETC. SHALL BE BROUGHT BACK TO THE PANEL TO TERMINATE. REFER TO ELECTRICAL PLANS FOR ADDITIONAL INFORMATION. PATCH WALLS/FLOORS/CEILINGS AT REMOVAL LOCATIONS.

D11 REMOVE EXISTING PLYWOOD COVER/ AND METAL LOCKERS IN THEIR ENTIRETY AND DISPOSE. PREP ADJACENT SURFACES TO RECEIVE NEW FINISHES. FILL IN OPENING WITH METAL STUD AND ABUSE RESISTANT GYPSUM BOARD. SEE DETAILS ON SHEET A-730.

D12 REMOVE EXISTING CASEWORK, SHELVES, COUNTERTOPS, AND OVERHEAD CABINETS IN THEIR ENTIRETY AND DISPOSE. DISCONNECT AND CAP PLUMBING IF SINK IS BEING REMOVED WITH COUNTERTOPS, REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

D13 REMOVE EXISTING TOILET PARTITIONS AND FIXTURES IN THEIR ENTIRETY AND CAP PLUMBING. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION. REMOVE CHASE WALL TO INSTALL NEW FIXTURES. REPLACE WALL & FINISH AS SPECIFIED. ALL FINISHES TO BE CONTIGUOUS & FLUSH.

D14 DISCONNECT AND REMOVE EXISTING MECHANICAL UNIT (RADIATOR, UNIT VENTILATOR, ETC.) IN ITS ENTIRETY. PREP WALL TO INSTALL MISSING BASE TO MATCH ADJACENT TRIM. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION. PATCH WALLS/FLOORS/CEILINGS AT REMOVAL LOCATIONS. PATCH ALL SURFACES & PREPARE FOR NEW SCHEDULED FINISHES. ALL MECHANICAL WORK, INCLUDING GANG TOILET ROOMS ARE BASE BID. SEE DETAIL 5/A-730 FOR REPAIR DETAILS

D15 REMOVE PORTION OF EXISTING WALL FOR INSTALLATION OF NEW DOOR. REFER TO PLANS AND DOOR SCHEDULE FOR ADDITIONAL INFORMATION.

D16 REMOVE EXISTING DOOR, SIDELITES,TRANSOM, STOREFRONT SYSTEM AND FRAME IN ITS ENTIRETY AND DISPOSE. PREP ADJACENT SURFACES TO RECEIVE NEW FINISH.

D17 REMOVE EXISTING DOOR AND HARDWARE AND DISPOSE, PREP/MODIFY FRAME TO RECEIVE NEW DOOR AND NEW HARDWARE. REFER TO DOOR HARDWARE SPECIFICATIONS.

D18 NOT USED

D19 DISCONNECT AND REMOVE EXISTING MECHANICAL UNIT IN ITS ENTIRETY. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION. ALL SURFACES TO BE SMOOTH & FINISHES CONTIGUOUS. NEW FINISH AS SCHEDULED.

D20 PREP FOR INSTALLATION OF NEW ROLLER SHADES PER FINISH SCHEDULE. PREP FOR INSTALLATION OF NEW INSECT SCREENS AT ALL OPERABLE WINDOWS

D21 REMOVE RAILING AND ALL ASSOCIATED HARDWARE AND DISPOSE.

D22 NOT USED.

D23 REMOVE EXISTING KITCHEN APPLIANCES IN THEIR ENTIRETY. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION.

D24 EXISTING SECURITY PANEL AND CONDUIT TO BE REMOVED. REFER TO ELECTRICAL DRAWINGS. PATCH CMU WALL AS REQUIRED.

D25 REMOVE EXISTING FIRE HOSE CABINET IN ITS ENTIRETY. PATCH WALL AS REQUIRED, ALIGN WITH AND MATCH ADJACENT FINISHES.

D26 REMOVE AND REPLACE FLOOR DRAIN. REMOVE ALL FLOOR TILE. PREPARE FLOOR WITH SELF LEVELING PATCH.

D27 REMOVE EXISTING DRINKING FOUNTAIN AND CONCRETE PLATFORM. GRIND SMOOTH SLAB FOR NEW FLOORING FINISH TO ALIGN WITH ADJACENT FLOOR SURFACE. PATCH WALL TO ALIGN WITH AND MATCH ADJACENT FINISHES.

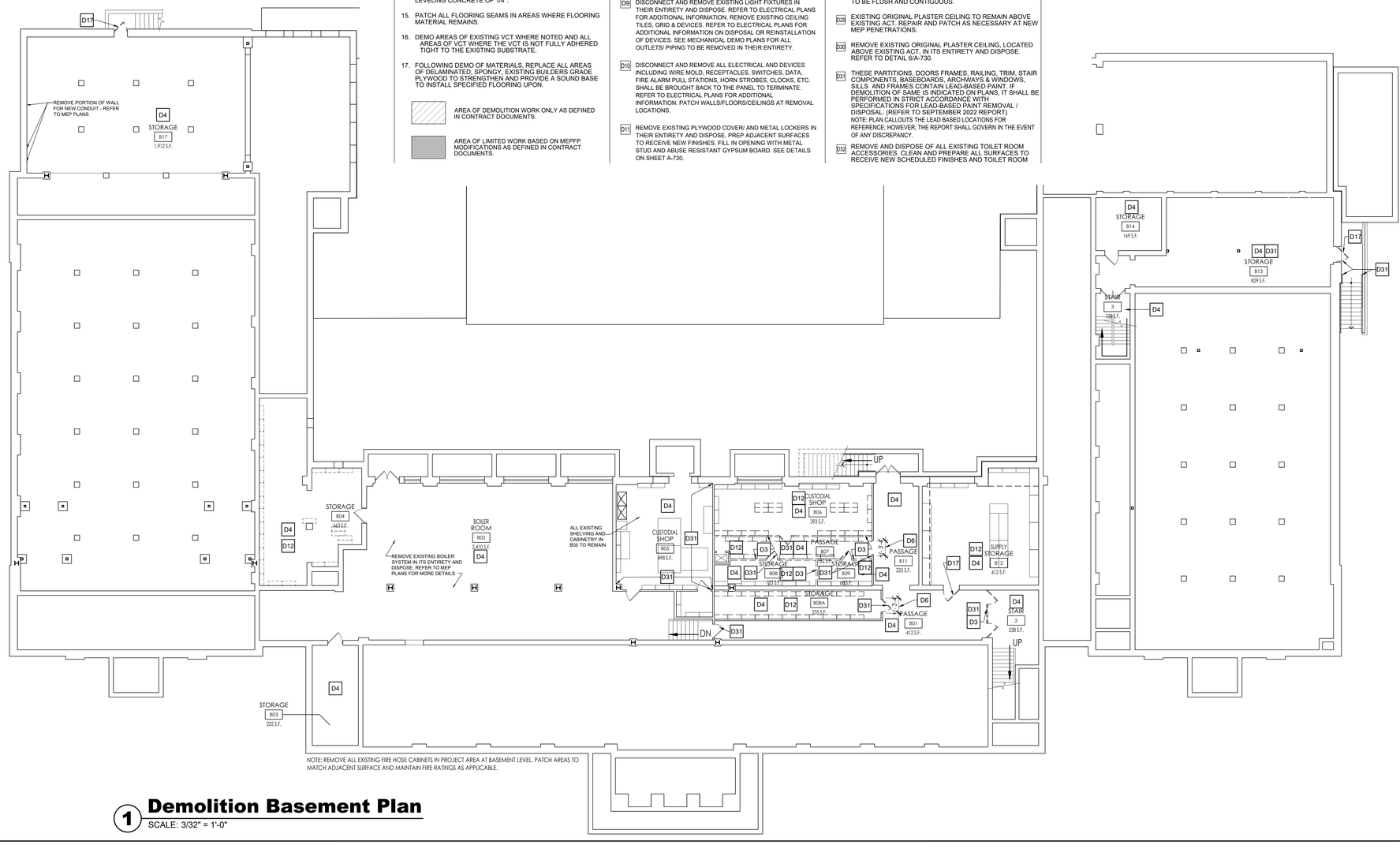
D28 REMOVE EXISTING WINDOW ASSEMBLY. PREPARE FOR NEW G.B. INFILL TO ALIGN WITH EXISTING WALLS. ALL SURFACES TO BE FLUSH AND CONTIGUOUS.

D29 EXISTING ORIGINAL PLASTER CEILING TO REMAIN ABOVE EXISTING ACT. REPAIR AND PATCH AS NECESSARY AT NEW MEP PENETRATIONS.

D30 REMOVE EXISTING ORIGINAL PLASTER CEILING, LOCATED ABOVE EXISTING ACT, IN ITS ENTIRETY AND DISPOSE. REFER TO DETAIL 6/A-730.

D31 THESE PARTITIONS, DOORS FRAMES, RAILING, TRIM, STAIR COMPONENTS, BASEBOARDS, ARCHWAYS & WINDOWS, SILLS AND FRAMES CONTAIN LEAD-BASED PAINT. IF DEMOLITION OF SAME IS INDICATED ON PLANS, IT SHALL BE PERFORMED IN STRICT ACCORDANCE WITH SPECIFICATIONS FOR LEAD-BASED PAINT REMOVAL / DISPOSAL. (REFER TO SEPTEMBER 2022 REPORT)
NOTE: PLAN CALLOUTS THE LEAD BASED LOCATIONS FOR REFERENCE; HOWEVER, THE REPORT SHALL GOVERN IN THE EVENT OF ANY DISCREPANCY.

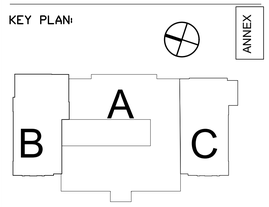
D32 REMOVE AND DISPOSE OF ALL EXISTING TOILET ROOM ACCESSORIES. CLEAN AND PREPARE ALL SURFACES TO RECEIVE NEW SCHEDULED FINISHES AND TOILET ROOM



NOTE: REMOVE ALL EXISTING FIRE HOSE CABINETS IN PROJECT AREA AT BASEMENT LEVEL. PATCH AREAS TO MATCH ADJACENT SURFACE AND MAINTAIN FIRE RATINGS AS APPLICABLE.

1 Demolition Basement Plan
SCALE: 3/32" = 1'-0"

KEY PLAN:



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	12/08/25	OUT TO BID
	12/03/25	DCA Submission

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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date: 04/09/2025
Drawn By: TC
Checked By: KG

Sheet Name:
EXISTING BASEMENT FLOOR PLAN

Sheet No:
D-100
Sheet 0 of 000

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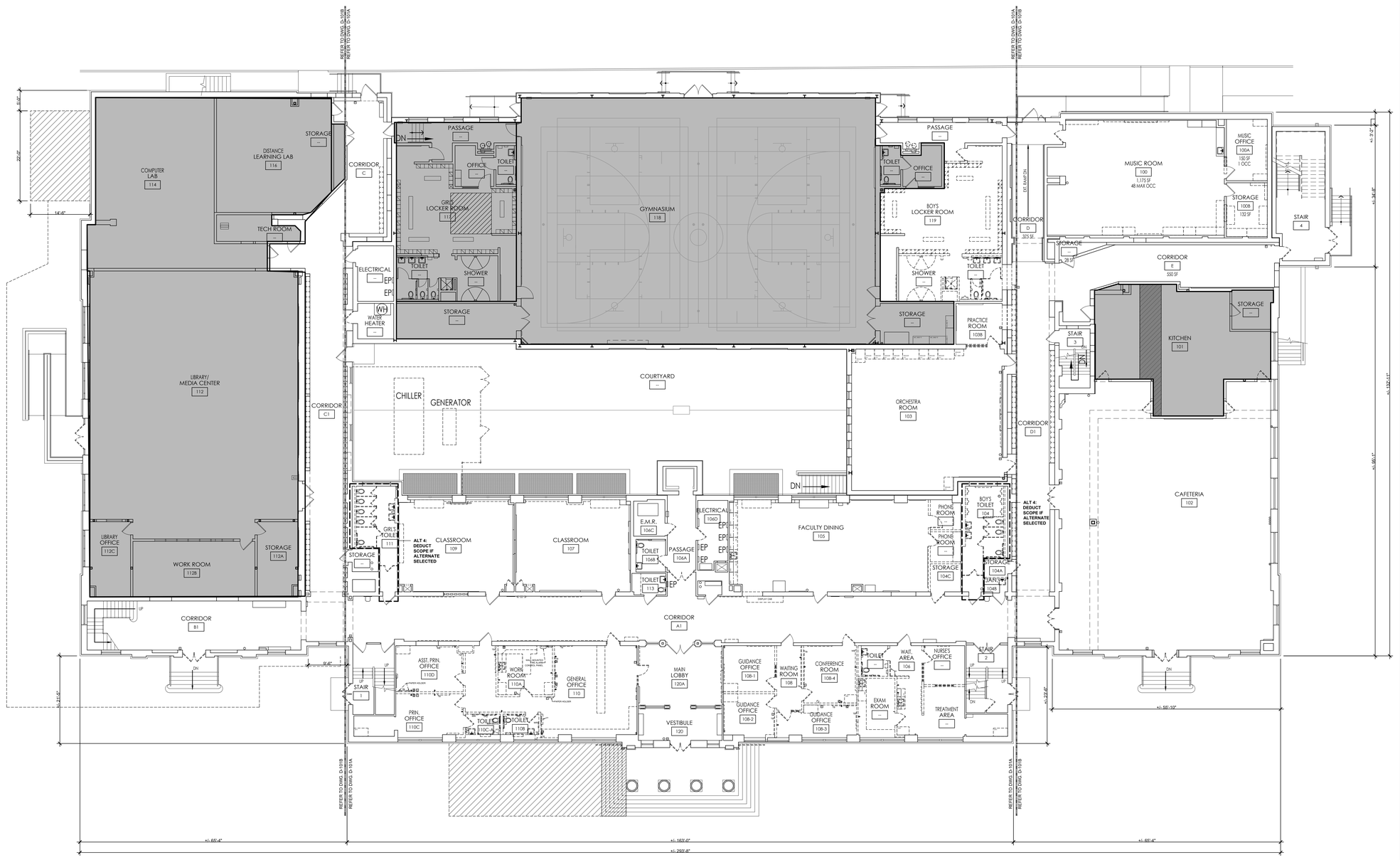
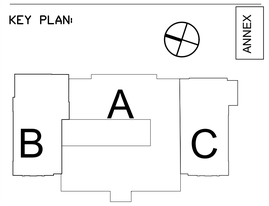


1 FIRST FLOOR DEMOLITION KEY PLAN

SCALE: 3/32" = 1'-0"

KEY PLAN:



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Drawing Information:
Project No: 25.024
Date: 04/09/2025
Drawn By: TC
Checked By: KG

Sheet Name:
FIRST FLOOR DEMOLITION PLAN

Sheet No:
D-101
Sheet 0 of 000

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GENERAL NOTES:
PRIOR TO THE START OF DEMOLITION

1. ALL ITEMS INDICATED FOR REMOVAL SHALL BE DISPOSED OF LEGALLY IN ACCORDANCE WITH THE SPECIFICATIONS UNLESS OTHERWISE NOTED.
2. THE GENERAL CONTRACTOR SHALL REMOVE ALL LOOSE FURNITURE, EQUIPMENT AND APPLIANCES PRIOR TO THE START OF DEMOLITION. THE CONTRACTOR SHALL VERIFY THAT ALL LOOSE FURNITURE, PICTURES, FLOOR MATS, FIRE EXTINGUISHERS, FLAGS, PLANTS, PLAQUES, ETC. HAVE BEEN REMOVED FROM EACH ROOM AREA.
3. TEMPORARY LIGHTING IS TO BE PROVIDED BY CONTRACTOR. LIGHT LEVELS TO BE ADEQUATE FOR THE SAFE PERFORMANCE OF DEMOLITION AND CONSTRUCTION ACTIVITIES.
4. PROVIDE AND INSTALL DUST PROTECTION IN AREAS OF WORK TO MINIMIZE THE AFFECTED AREA OF CLEANUP. ALL AREAS NOTED TO BE NOT IN CONTRACT SHALL BE PROTECTED BY GC. AFTER THE DEMOLITION HAS BEEN COMPLETED, EACH AREA SHALL BE BROOM SWEPT, WIPED DOWN AND VACUUMED REMOVING ALL DEBRIS AND DUST.
5. AT EXISTING TERRAZZO CORRIDOR FLOORS, THE CONTRACTOR SHALL PROVIDE AND INSTALL ½" THICK SHEET "MASONITE" PROTECTION BOARDS PLACED EDGE-TO-EDGE WITH ALL BUTT JOINTS TAPED TO PROTECT EXISTING SURFACES ADJACENT TO THE CORRIDOR ENTRANCE WORK AREAS.
6. PROVIDE AND INSTALL ANY AND ALL REQUIRED TEMPORARY SUPPORT, SHORING, BRACING AND / OR NEEDLING TO STABILIZE AND SUPPORT EXISTING BUILDING FRAMING FOR FLOORS, CEILINGS AND WALLS CONCERNING THE WORK DESCRIBED IN THE CONTRACT DOCUMENTS.
7. PRIOR TO THE REMOVAL OF LIGHTING, EXIT SIGNS, SMOKE DETECTORS, FIRE STROBES, AND PARTITIONS, DISCONNECT / CAP OR TERMINATE ALL ELECTRICAL CIRCUITING AT DISTRIBUTION PANELS, TO FACILITATE WORK SHOWN ON DRAWINGS.
8. ALL EXISTING MECHANICAL, I.T. CIRCUITING AND ELECTRICAL LINES OR CIRCUITS ATTACHED TO EXISTING ASSEMBLIES AND EQUIPMENT SLATED FOR REMOVAL, SHALL BE PROTECTED, MAINTAINED AND REATTACHED OR SECURED TO NEW WORK, EXISTING ADJACENT SURFACES, OR NEW EQUIPMENT.
9. ANY HOLES CREATED IN WALLS, FLOOR, CEILING DURING THE DEMOLITION OR CONSTRUCTION OF THIS PROJECT SHALL BE PATCHED AND FINISHED MATCHING EXISTING ADJACENT ASSEMBLIES BY GENERAL CONTRACTOR.
10. NOTIFY THE ARCHITECT IF EXISTING PLUMBING LINES, DUCTWORK, AND ELECTRICAL LINES SCHEDULED FOR REMOVAL ARE REQUIRED FOR SERVICING OTHER AREAS OF THE BUILDING. DO NOT REMOVE ABOVE MENTIONED EQUIPMENT WITHOUT INSTRUCTIONS FROM THE ARCHITECT.
11. REFERENCE MECHANICAL, ELECTRICAL, PLUMBING DRAWINGS FOR ADDITIONAL DEMOLITION NOTES.
12. IN AREAS WITH EXISTING WOOD FLOORING SUBSTRATE, DAMAGED WOOD SUBSTRATE TO BE REMOVED AND 1/4" PLYWOOD IS TO BE INSTALLED THROUGHOUT.
13. IN THE AREAS WITH EXISTING CONCRETE FLOORING SUBSTRATE, ADD SELF-LEVELING CONCRETE OF ABOUT 1/4" THROUGHOUT.
14. AT THE THIRD FLOOR ABATED FLOORING AREAS, PATCH, SAND, PRIME AND A SKIM COAT FLOOR WITH SELF LEVELING CONCRETE OF 1/4".
15. PATCH ALL FLOORING SEAMS IN AREAS WHERE FLOORING MATERIAL REMAINS.
16. DEMO AREAS OF EXISTING VCT WHERE NOTED AND ALL AREAS OF VCT WHERE THE VCT IS NOT FULLY ADHERED TIGHT TO THE EXISTING SUBSTRATE.
17. FOLLOWING DEMO OF MATERIALS, REPLACE ALL AREAS OF DELAMINATED, SPONGY, EXISTING BUILDERS GRADE PLYWOOD TO STRENGTHEN AND PROVIDE A SOUND BASE TO INSTALL SPECIFIED FLOORING UPON.

AREA OF DEMOLITION WORK ONLY AS DEFINED IN CONTRACT DOCUMENTS.

AREA OF LIMITED WORK BASED ON MEPFP MODIFICATIONS AS DEFINED IN CONTRACT DOCUMENTS.

INTERIOR DEMOLITION KEY NOTES:

D1 PREP EXISTING CONCRETE FLOOR SLAB FOR PAINT. REMOVE ALL LOOSE DIRT, DEBRIS, AND OLD PAINT. SCARIFY, SCRUB EXISTING SLAB WITH DETERGENT TO REMOVE ALL OIL AND GREASE. ALLOW EXISTING SLAB TO FULLY DRY BEFORE APPLYING PRIMER / PAINT.

D2 PREP EXISTING MASONRY WALLS FOR PAINT, SCRAPE AND REMOVE ALL LOOSE OLD PAINT. REMOVE EXISTING VINYL WALL BASE AND REMAINING ADHESIVE, PREP SURFACE FOR NEW BASE FINISH AS SPECIFIED.

D3 REMOVE EXISTING PARTITION IN ITS ENTIRETY OR PORTION AS SHOWN AND DISPOSE, INCLUDING ALL DOORS, FRAMES, WINDOWS, ETC.WITHIN. PREP ADJACENT PLASTER FINISH TO RECEIVE NEW FINISH. PATCH + PREP FLOOR FOR NEW FINISHES.

3A REMOVE EXISTING MOVEABLE WALL ASSEMBLY INCLUDING ALL FRAMING, STRUCTURE, SUPPORTS, ENCLOSURES AND TRACKS. PATCH FLUSH AND SMOOTH ALL DISTURBED WALLS, FLOORS AND CEILING.

D4 REMOVE EXISTING CHAIN HUNG / THREADED ROD SUSPENDED LIGHTING FIXTURES IN THEIR ENTIRETY. REFER TO ELECTRICAL DEMOLITION PLANS FOR ADDITIONAL INFORMATION.

D5 REMOVE EXISTING BUILT-IN WOOD SHELVING / CLOSET IN ITS ENTIRETY AND DISPOSE. PREPARE ADJACENT SURFACES TO RECEIVE NEW FINISH.

D6 REMOVE EXISTING WOOD DOORS AND FRAME ASSEMBLY AND DISPOSE. MODIFY OPENING TO RECEIVE NEW DOOR AND FRAME ASSEMBLY AS SPECIFIED. PROVIDE AND INSTALL NEW LINTEL AS SHOWN ON STRUCTURAL DRAWING LINTEL SCHEDULE.

D7 REMOVE EXISTING RECESSED METAL LOCKERS IN THEIR ENTIRETY AND DISPOSE. PREP ADJACENT SURFACES FOR PARTITION INFILL.

D7A REMOVE EXISTING METAL LOCKERS IN THEIR ENTIRETY AND DISPOSE. PATCH AND REPAIR ADJACENT SURFACES AND PREPARE FOR NEW SCHEDULED FINISHES.

D8 REMOVE EXISTING FINISHES IN THEIR ENTIRETY (FLOOR, BASE, WALLS AND CEILING) AND DISPOSE. REFER TO EXISTING FINISH SCHEDULE FOR RECORD OF FINISHES.
- CARPET - TO BE REMOVED
- VCT - TO BE REMOVED
- CERAMIC TILE - TO REMAIN U.O.N.
- TERRAZZO - TO REMAIN, PREP FOR NEW FLOOR FINISH
- TILE BASE - TO REMAIN U.O.N.
- RUBBER BASE - TO BE REMOVED
- RUBBER BASE ON EXISTING WOOD - ONLY RUBBER TO BE REMOVED
- ACOUSTICAL CEILING TILE & GRID - TO BE REMOVED
- TACK BOARDS - TO BE REMOVED
- WHITEBOARDS - TO BE REMOVED
- WALL MOUNTED ITEMS - TO BE REMOVED
- WOOD BASE - TO REMAIN

D9 DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES IN THEIR ENTIRETY AND DISPOSE. REFER TO ELECTRICAL PLANS FOR ADDITIONAL INFORMATION. REMOVE EXISTING CEILING TILES, GRID & DEVICES. REFER TO ELECTRICAL PLANS FOR ADDITIONAL INFORMATION ON DISPOSAL OR REINSTALLATION OF DEVICES. SEE MECHANICAL DEMO PLANS FOR ALL OUTLETS/ PIPING TO BE REMOVED IN THEIR ENTIRETY.

D10 DISCONNECT AND REMOVE ALL ELECTRICAL AND DEVICES INCLUDING WIRE MOLD, RECEPTACLES, SWITCHES, DATA, FIRE ALARM PULL STATIONS, HORN STROBES, CLOCKS, ETC. SHALL BE BROUGHT BACK TO THE PANEL TO TERMINATE. REFER TO ELECTRICAL PLANS FOR ADDITIONAL INFORMATION. PATCH WALLS/FLOORS/CEILINGS AT REMOVAL LOCATIONS.

D11 REMOVE EXISTING PLYWOOD COVER/ AND METAL LOCKERS IN THEIR ENTIRETY AND DISPOSE. PREP ADJACENT SURFACES TO RECEIVE NEW FINISHES. FILL IN OPENING WITH METAL STUD AND ABUSE RESISTANT GYPSUM BOARD. SEE DETAILS ON SHEET A-730.

D12 REMOVE EXISTING CASEWORK, SHELVES, COUNTERTOPS, AND OVERHEAD CABINETS IN THEIR ENTIRETY AND DISPOSE. DISCONNECT AND CAP PLUMBING IF SINK IS BEING REMOVED WITH COUNTERTOPS, REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

D13 REMOVE EXISTING TOILET PARTITIONS AND FIXTURES IN THEIR ENTIRETY AND CAP PLUMBING. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION. REMOVE CHASE WALL TO INSTALL NEW FIXTURES. REPLACE WALL & FINISH AS SPECIFIED. ALL FINISHES TO BE CONTIGUOUS & FLUSH.

D14 DISCONNECT AND REMOVE EXISTING MECHANICAL UNIT (RADIATOR, UNIT VENTILATOR, ETC.) IN ITS ENTIRETY. PREP WALL TO INSTALL MISSING BASE TO MATCH ADJACENT TRIM. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION. PATCH WALLS/FLOORS/CEILINGS AT REMOVAL LOCATIONS. PATCH ALL SURFACES & PREPARE FOR NEW SCHEDULED FINISHES. ALL MECHANICAL WORK, INCLUDING GANG TOILET ROOMS ARE BASE BID. SEE DETAIL S/A-730 FOR REPAIR DETAILS

D15 REMOVE PORTION OF EXISTING WALL FOR INSTALLATION OF NEW DOOR. REFER TO PLANS AND DOOR SCHEDULE FOR ADDITIONAL INFORMATION.

D16 REMOVE EXISTING DOOR, SIDELITES,TRANSOM, STOREFRONT SYSTEM AND FRAME IN ITS ENTIRETY AND DISPOSE. PREP ADJACENT SURFACES TO RECEIVE NEW FINISH.

D17 REMOVE EXISTING DOOR AND HARDWARE AND DISPOSE, PREP/MODIFY FRAME TO RECEIVE NEW DOOR AND NEW HARDWARE. REFER TO DOOR HARDWARE SPECIFICATIONS.

D18 NOT USED

D19 DISCONNECT AND REMOVE EXISTING MECHANICAL UNIT IN ITS ENTIRETY. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION. ALL SURFACES TO BE SMOOTH & FINISHES CONTIGUOUS. NEW FINISH AS SCHEDULED.

D20 PREP FOR INSTALLATION OF NEW ROLLER SHADES PER FINISH SCHEDULE. PREP FOR INSTALLATION OF NEW INSECT SCREENS AT ALL OPERABLE WINDOWS

D21 REMOVE RAILING AND ALL ASSOCIATED HARDWARE AND DISPOSE.

D22 NOT USED.

D23 REMOVE EXISTING KITCHEN APPLIANCES IN THEIR ENTIRETY. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION.

D24 EXISTING SECURITY PANEL AND CONDUIT TO BE REMOVED. REFER TO ELECTRICAL DRAWINGS. PATCH CMU WALL AS REQUIRED.

D25 REMOVE EXISTING FIRE HOSE CABINET IN ITS ENTIRETY. PATCH WALL AS REQUIRED, ALIGN WITH AND MATCH ADJACENT FINISHES.

D26 REMOVE AND REPLACE FLOOR DRAIN. REMOVE ALL FLOOR TILE. PREPARE FLOOR WITH SELF LEVELING PATCH.

D27 REMOVE EXISTING DRINKING FOUNTAIN AND CONCRETE PLATFORM. GRIND SMOOTH SLAB FOR NEW FLOORING FINISH TO ALIGN WITH ADJACENT FLOOR SURFACE. PATCH WALL TO ALIGN WITH AND MATCH ADJACENT FINISHES.

D28 REMOVE EXISTING WINDOW ASSEMBLY. PREPARE FOR NEW G.B. INFILL TO ALIGN WITH EXISTING WALLS. ALL SURFACES TO BE FLUSH AND CONTIGUOUS.

D29 EXISTING ORIGINAL PLASTER CEILING TO REMAIN ABOVE EXISTING ACT. REPAIR AND PATCH AS NECESSARY AT NEW MEP PENETRATIONS.

D30 REMOVE EXISTING ORIGINAL PLASTER CEILING, LOCATED ABOVE EXISTING ACT, IN ITS ENTIRETY AND DISPOSE. REFER TO DETAIL 6/A-730.

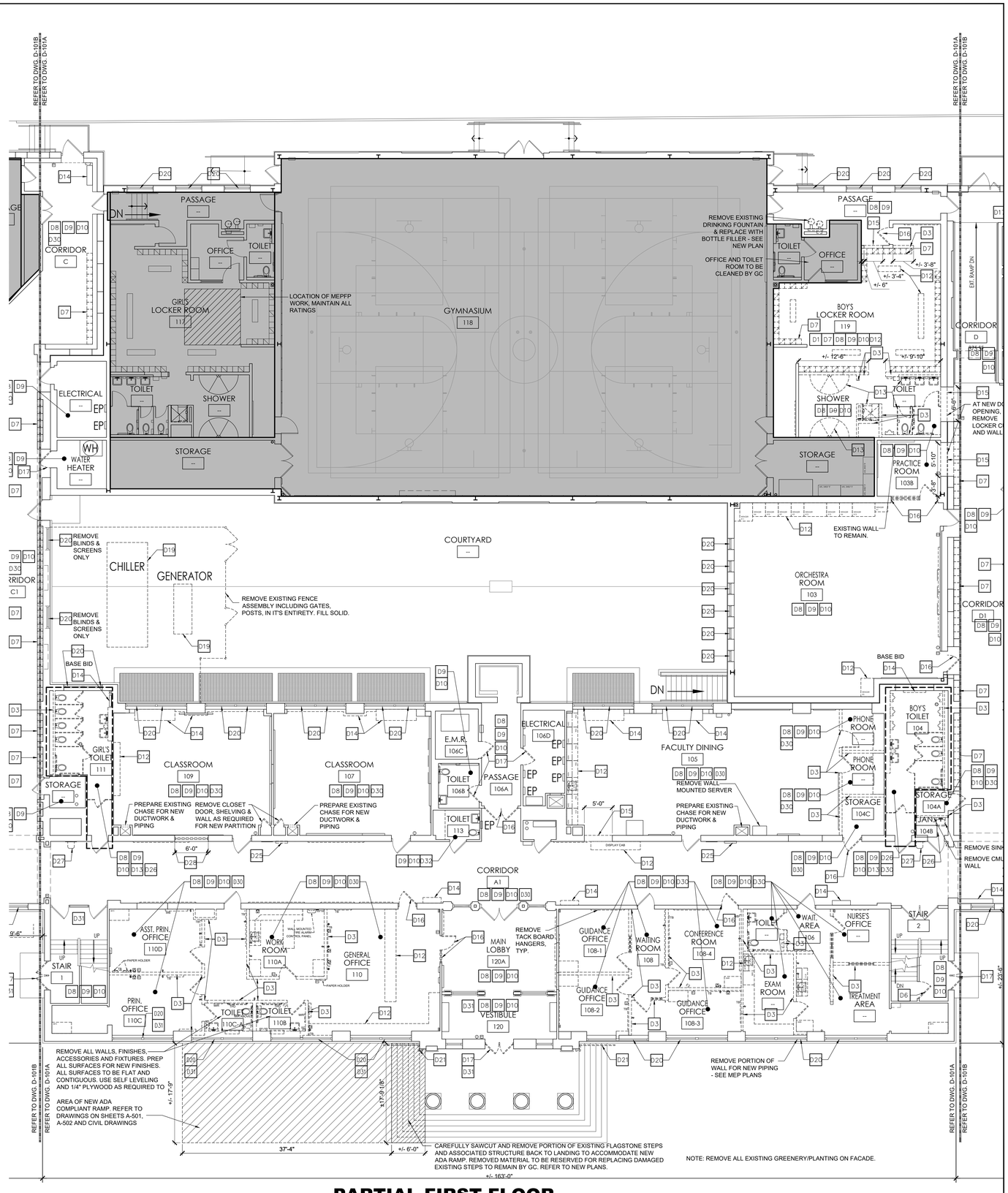
D31 THESE PARTITIONS, DOORS FRAMES, RAILING, TRIM, STAIR COMPONENTS, BASEBOARDS, ARCHWAYS & WINDOWS, SILLS AND FRAMES CONTAIN LEAD-BASED PAINT. IF DEMOLITION OF SAME IS INDICATED ON PLANS, IT SHALL BE PERFORMED IN STRICT ACCORDANCE WITH SPECIFICATIONS FOR LEAD-BASED PAINT REMOVAL / DISPOSAL. (REFER TO SEPTEMBER 2022 REPORT)
NOTE: PLAN CALLOUTS THE LEAD BASED LOCATIONS FOR REFERENCE; HOWEVER, THE REPORT SHALL GOVERN IN THE EVENT OF ANY DISCREPANCY.

D32 REMOVE AND DISPOSE OF ALL EXISTING TOILET ROOM ACCESSORIES. CLEAN AND PREPARE ALL SURFACES TO RECEIVE NEW SCHEDULED FINISHES AND TOILET ROOM ACCESSORIES. EXISTING FLOORING TO REMAIN AND NEW FLOORING TO BE INSTALLED ON TOP.

EXISTING ROOM FINISHES - FIRST FLOOR

ROOM NUMBER	ROOM NAME	FLOORING	BASE	WALLS	CEILING	NOTES
120	VESTIBULE	TERRAZZO ETR	TERRAZZO BASE/WOOD TRIM ETR	PAINT	PLASTER	
120A	MAIN LOBBY	TERRAZZO ETR	TERRAZZO BASE/WOOD TRIM ETR	PAINT	PLASTER	
A1	CORRIDOR	TERRAZZO ETR	TERRAZZO / RUBBER ETR	PAINT	ACT	
103	ORCHESTRA ROOM	CARPET	RUBBER	PAINT	OPEN	
103A	PRACTICE ROOM	CARPET	RUBBER	PAINT	ACT	
104	BOYS TOILET	CERAMIC TILE ETR	CERAMIC TILE	PAINT	ACT	ALTERNATE #4
104A	STORAGE			PAINT	ACT	
104B	JAN. CLOSET			PAINT	ACT	
104C	STORAGE	VCT	RUBBER	PAINT	ACT	
105	FACULTY DINING	VCT	RUBBER	PAINT	ACT	
---	PHONE ROOM	VCT	RUBBER	PAINT	ACT	
---	PHONE ROOM	VCT	RUBBER	PAINT	ACT	
106A	PASSAGE	VCT	RUBBER	PAINT	ACT	
106B	TOILET	CERAMIC TILE ETR	CERAMIC TILE	PAINT	ACT	
106C	E.M.R.	CONCRETE	RUBBER	PAINT	ACT	
106D	ELECTRICAL	VCT	RUBBER	PAINT	ACT	
107	CLASSROOM	VCT	RUBBER OVER WOOD	PAINT	ACT	
109	CLASSROOM	VCT	RUBBER OVER WOOD	PAINT	ACT	
111	GIRLS TOILET	TERRAZZO	TERRAZZO/ C. TILE	PAINT	ACT	ALTERNATE #4
---	STORAGE			PAINT	ACT	
113	TOILET	VINYL	WOOD	PAINT	PLASTER	REMOVE ALL FINISHES
110	GENERAL OFFICE	CARPET	RUBBER	PAINT	ACT	
110A	WORK ROOM	VCT	RUBBER	PAINT	ACT	
110B	TOILET	CERAMIC TILE	CERAMIC TILE	PAINT	ACT	REMOVE ALL FINISHES
110C	PRINC. OFFICE	CARPET	RUBBER	PAINT	ACT	
110C-A	TOILET	CERAMIC TILE	CERAMIC TILE	PAINT	ACT	REMOVE ALL FINISHES
110D	ASST. PRIN. OFFICE	CARPET	RUBBER	PAINT	ACT	
106	WAIT AREA	VCT	RUBBER	PAINT	ACT	
108	WAITING ROOM	CARPET	RUBBER	PAINT	ACT	
108A	CONFERENCE ROOM	CARPET	RUBBER	PAINT	ACT	
119	BOY'S LOCKER ROOM	EPOXY	CERAMIC TILE	PAINT	---	
---	BOY'S LOCKER SHOWER	CERAMIC TILE ETR	CERAMIC TILE	CERAMIC TILE	PLASTER	
---	GUIDANCE OFFICE	CARPET	RUBBER	PAINT	ACT	
---	GUIDANCE OFFICE	CARPET	RUBBER	PAINT	ACT	
---	GUIDANCE OFFICE	CARPET	RUBBER	PAINT	ACT	
---	EXAM ROOM	VCT	RUBBER	PAINT	ACT	
---	TREATMENT AREA	VCT	RUBBER	PAINT	ACT	
---	NURSES OFFICE	VCT	RUBBER	PAINT	ACT	
---	TOILET	CERAMIC TILE	ETR CERAMIC TILE	PAINT	ACT	
--	STAIR 1	METAL TREADS/ PAINTED CONCRETE LANDINGS	PAINTED STRINGER	PAINT	PLASTER	
--	STAIR 2		PAINTED STRINGER	PAINT	PLASTER	

1. PAINTED CONCRETE LANDINGS AND STEPS WITH METAL TREADS
2. TERRAZZO BASE/ WOOD TRIM



PARTIAL FIRST FLOOR DEMOLITION PLAN AREA 'A'

1 SCALE: 1/8" = 1'-0"

KEY PLAN:

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Sheet Name:
FIRST FLOOR DEMOLITION PLAN AREA A

Sheet No:
D-101A
Sheet 0 of 000

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GENERAL NOTES:

PRIOR TO THE START OF DEMOLITION

1. ALL ITEMS INDICATED FOR REMOVAL SHALL BE DISPOSED OF LEGALLY IN ACCORDANCE WITH THE SPECIFICATIONS UNLESS OTHERWISE NOTED.
2. THE GENERAL CONTRACTOR SHALL REMOVE ALL LOOSE FURNITURE, EQUIPMENT AND APPLIANCES PRIOR TO THE START OF DEMOLITION. THE CONTRACTOR SHALL VERIFY THAT ALL LOOSE FURNITURE, PICTURES, FLOOR MATS, FIRE EXTINGUISHERS, FLAGS, PLANTS, PLAQUES, ETC. HAVE BEEN REMOVED FROM EACH ROOM AREA.
3. TEMPORARY LIGHTING IS TO BE PROVIDED BY CONTRACTOR. LIGHT LEVELS TO BE ADEQUATE FOR THE SAFE PERFORMANCE OF DEMOLITION AND CONSTRUCTION ACTIVITIES.
4. PROVIDE AND INSTALL DUST PROTECTION IN AREAS OF WORK TO MINIMIZE THE AFFECTED AREA OF CLEANUP. ALL AREAS NOTED TO BE NOT IN CONTRACT SHALL BE PROTECTED BY GC. AFTER THE DEMOLITION HAS BEEN COMPLETED, EACH AREA SHALL BE BROOM SWEPT, WIPED DOWN AND VACUUMED REMOVING ALL DEBRIS AND DUST.
5. AT EXISTING TERRAZZO CORRIDOR FLOORS, THE CONTRACTOR SHALL PROVIDE AND INSTALL ½" THICK SHEET "MASONITE" PROTECTION BOARDS PLACED EDGE-TO-EDGE WITH ALL BUTT JOINTS TAPED TO PROTECT EXISTING SURFACES ADJACENT TO THE CORRIDOR ENTRANCE WORK AREAS.
6. PROVIDE AND INSTALL ANY AND ALL REQUIRED TEMPORARY SUPPORT, SHORING, BRACING AND / OR NEEDLING TO STABILIZE AND SUPPORT EXISTING BUILDING FRAMING FOR FLOORS, CEILINGS AND WALLS CONCERNING THE WORK DESCRIBED IN THE CONTRACT DOCUMENTS.
7. PRIOR TO THE REMOVAL OF LIGHTING, EXIT SIGNS, SMOKE DETECTORS, FIRE STROBES, AND PARTITIONS, DISCONNECT / CAP OR TERMINATE ALL ELECTRICAL CIRCUITING AT DISTRIBUTION PANELS, TO FACILITATE WORK SHOWN ON DRAWINGS.
8. ALL EXISTING MECHANICAL, I.T. CIRCUITING AND ELECTRICAL LINES OR CIRCUITS ATTACHED TO EXISTING ASSEMBLIES AND EQUIPMENT SLATED FOR REMOVAL, SHALL BE PROTECTED, MAINTAINED AND REATTACHED OR SECURED TO NEW WORK, EXISTING ADJACENT SURFACES, OR NEW EQUIPMENT.
9. ANY HOLES CREATED IN WALLS, FLOOR, CEILING DURING THE DEMOLITION OR CONSTRUCTION OF THIS PROJECT SHALL BE PATCHED AND FINISHED MATCHING EXISTING ADJACENT ASSEMBLIES BY GENERAL CONTRACTOR.
10. NOTIFY THE ARCHITECT IF EXISTING PLUMBING LINES, DUCTWORK, AND ELECTRICAL LINES SCHEDULED FOR REMOVAL ARE REQUIRED FOR SERVICING OTHER AREAS OF THE BUILDING. DO NOT REMOVE ABOVE MENTIONED EQUIPMENT WITHOUT INSTRUCTIONS FROM THE ARCHITECT.
11. REFERENCE MECHANICAL, ELECTRICAL, PLUMBING DRAWINGS FOR ADDITIONAL DEMOLITION NOTES.
12. IN AREAS WITH EXISTING WOOD FLOORING SUBSTRATE, DAMAGED WOOD SUBSTRATE TO BE REMOVED AND 1/4" PLYWOOD IS TO BE INSTALLED THROUGHOUT.
13. IN THE AREAS WITH EXISTING CONCRETE FLOORING SUBSTRATE, ADD SELF-LEVELING CONCRETE OF ABOUT 1/4" THROUGHOUT.
14. AT THE THIRD FLOOR ABATED FLOORING AREAS, PATCH, SAND, PRIME AND A SKIM COAT FLOOR WITH SELF LEVELING CONCRETE OF 1/4".
15. PATCH ALL FLOORING SEAMS IN AREAS WHERE FLOORING MATERIAL REMAINS.
16. DEMO AREAS OF EXISTING VCT WHERE NOTED AND ALL AREAS OF VCT WHERE THE VCT IS NOT FULLY ADHERED TIGHT TO THE EXISTING SUBSTRATE.
17. FOLLOWING DEMO OF MATERIALS, REPLACE ALL AREAS OF DELAMINATED, SPONGY, EXISTING BUILDERS GRADE PLYWOOD TO STRENGTHEN AND PROVIDE A SOUND BASE TO INSTALL SPECIFIED FLOORING UPON.

AREA OF DEMOLITION WORK ONLY AS DEFINED IN CONTRACT DOCUMENTS.

AREA OF LIMITED WORK BASED ON MEPFP MODIFICATIONS AS DEFINED IN CONTRACT DOCUMENTS.

INTERIOR DEMOLITION KEY NOTES:

D1 PREP EXISTING CONCRETE FLOOR SLAB FOR PAINT. REMOVE ALL LOOSE DIRT, DEBRIS, AND OLD PAINT. SCARIFY, SCRUB EXISTING SLAB WITH DETERGENT TO REMOVE ALL OIL AND GREASE. ALLOW EXISTING SLAB TO FULLY DRY BEFORE APPLYING PRIMER / PAINT.

D2 PREP EXISTING MASONRY WALLS FOR PAINT. SCRAPE AND REMOVE ALL LOOSE OLD PAINT. REMOVE EXISTING VINYL WALL BASE AND REMAINING ADHESIVE, PREP SURFACE FOR NEW BASE FINISH AS SPECIFIED.

D3 REMOVE EXISTING PARTITION IN ITS ENTIRETY OR PORTION AS SHOWN AND DISPOSE, INCLUDING ALL DOORS, FRAMES, WINDOWS, ETC.WITHIN. PREP ADJACENT PLASTER FINISH TO RECEIVE NEW FINISH. PATCH + PREP FLOOR FOR NEW FINISHES.

3A REMOVE EXISTING MOVEABLE WALL ASSEMBLY INCLUDING ALL FRAMING, STRUCTURE, SUPPORTS, ENCLOSURES AND TRACKS. PATCH FLUSH AND SMOOTH ALL DISTURBED WALLS, FLOORS AND CEILING.

D4 REMOVE EXISTING CHAIN HUNG / THREADED ROD SUSPENDED LIGHTING FIXTURES IN THEIR ENTIRETY. REFER TO ELECTRICAL DEMOLITION PLANS FOR ADDITIONAL INFORMATION.

D5 REMOVE EXISTING BUILT-IN WOOD SHELVING / CLOSET IN ITS ENTIRETY AND DISPOSE. PREPARE ADJACENT SURFACES TO RECEIVE NEW FINISH.

D6 REMOVE EXISTING WOOD DOORS AND FRAME ASSEMBLY AND DISPOSE. MODIFY OPENING TO RECEIVE NEW DOOR AND FRAME ASSEMBLY AS SPECIFIED. PROVIDE AND INSTALL NEW LINTEL AS SHOWN ON STRUCTURAL DRAWING LINTEL SCHEDULE.

D7 REMOVE EXISTING RECESSED METAL LOCKERS IN THEIR ENTIRETY AND DISPOSE. PREP ADJACENT SURFACES FOR PARTITION INFILL.

D7A REMOVE EXISTING METAL LOCKERS IN THEIR ENTIRETY AND DISPOSE. PATCH AND REPAIR ADJACENT SURFACES AND PREPARE FOR NEW SCHEDULED FINISHES.

D8 REMOVE EXISTING FINISHES IN THEIR ENTIRETY (FLOOR, BASE, WALLS AND CEILING) AND DISPOSE. REFER TO EXISTING FINISH SCHEDULE FOR RECORD OF FINISHES.
- CARPET - TO BE REMOVED
- VCT - TO BE REMOVED
- CERAMIC TILE - TO REMAIN U.O.N.
- TERRAZZO - TO REMAIN, PREP FOR NEW FLOOR FINISH
- TILE BASE - TO REMAIN U.O.N.
- RUBBER BASE - TO BE REMOVED
- RUBBER BASE ON EXISTING WOOD - ONLY RUBBER TO BE REMOVED
- ACOUSTICAL CEILING TILE & GRID - TO BE REMOVED
- TACK BOARDS - TO BE REMOVED
- WHITEBOARDS - TO BE REMOVED
- WALL MOUNTED ITEMS - TO BE REMOVED
- WOOD BASE - TO REMAIN

D9 DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES IN THEIR ENTIRETY AND DISPOSE. REFER TO ELECTRICAL PLANS FOR ADDITIONAL INFORMATION. REMOVE EXISTING CEILING TILES, GRID & DEVICES. REFER TO ELECTRICAL PLANS FOR ADDITIONAL INFORMATION ON DISPOSAL OR REINSTALLATION OF DEVICES. SEE MECHANICAL DEMO PLANS FOR ALL OUTLETS/ PIPING TO BE REMOVED IN THEIR ENTIRETY.

D10 DISCONNECT AND REMOVE ALL ELECTRICAL AND DEVICES INCLUDING WIRE MOLD, RECEPTACLES, SWITCHES, DATA, FIRE ALARM PULL STATIONS, HORN STROBES, CLOCKS, ETC. SHALL BE BROUGHT BACK TO THE PANEL TO TERMINATE. REFER TO ELECTRICAL PLANS FOR ADDITIONAL INFORMATION. PATCH WALLS/FLOORS/CEILINGS AT REMOVAL LOCATIONS.

D11 REMOVE EXISTING PLYWOOD COVER/ AND METAL LOCKERS IN THEIR ENTIRETY AND DISPOSE. PREP ADJACENT SURFACES TO RECEIVE NEW FINISHES. FILL IN OPENING WITH METAL STUD AND ABUSE RESISTANT GYPSUM BOARD. SEE DETAILS ON SHEET A-730.

D12 REMOVE EXISTING CASEWORK, SHELVES, COUNTERTOPS, AND OVERHEAD CABINETS IN THEIR ENTIRETY AND DISPOSE. DISCONNECT AND CAP PLUMBING IF SINK IS BEING REMOVED WITH COUNTERTOPS, REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

D13 REMOVE EXISTING TOILET PARTITIONS AND FIXTURES IN THEIR ENTIRETY AND CAP PLUMBING. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION. REMOVE CHASE WALL TO INSTALL NEW FIXTURES. REPLACE WALL & FINISH AS SPECIFIED. ALL FINISHES TO BE CONTIGUOUS & FLUSH.

D14 DISCONNECT AND REMOVE EXISTING MECHANICAL UNIT (RADIATOR, UNIT VENTILATOR, ETC.) IN ITS ENTIRETY. PREP WALL TO INSTALL MISSING BASE TO MATCH ADJACENT TRIM. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION. PATCH WALLS/FLOORS/CEILINGS AT REMOVAL LOCATIONS. PATCH ALL SURFACES & PREPARE FOR NEW SCHEDULED FINISHES. ALL MECHANICAL WORK, INCLUDING GANG TOILET ROOMS ARE BASE BID. SEE DETAIL S/A-730 FOR REPAIR DETAILS

D15 REMOVE PORTION OF EXISTING WALL FOR INSTALLATION OF NEW DOOR. REFER TO PLANS AND DOOR SCHEDULE FOR ADDITIONAL INFORMATION.

D16 REMOVE EXISTING DOOR, SIDELITES,TRANSOM, STOREFRONT SYSTEM AND FRAME IN ITS ENTIRETY AND DISPOSE. PREP ADJACENT SURFACES TO RECEIVE NEW FINISH.

D17 REMOVE EXISTING DOOR AND HARDWARE AND DISPOSE, PREP/MODIFY FRAME TO RECEIVE NEW DOOR AND NEW HARDWARE. REFER TO DOOR HARDWARE SPECIFICATIONS.

D18 NOT USED

D19 DISCONNECT AND REMOVE EXISTING MECHANICAL UNIT IN ITS ENTIRETY. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION. ALL SURFACES TO BE SMOOTH & FINISHES CONTIGUOUS. NEW FINISH AS SCHEDULED.

D20 PREP FOR INSTALLATION OF NEW ROLLER SHADES PER FINISH SCHEDULE. PREP FOR INSTALLATION OF NEW INSECT SCREENS AT ALL OPERABLE WINDOWS

D21 REMOVE RAILING AND ALL ASSOCIATED HARDWARE AND DISPOSE.

D22 NOT USED.

D23 REMOVE EXISTING KITCHEN APPLIANCES IN THEIR ENTIRETY. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION.

D24 EXISTING SECURITY PANEL AND CONDUIT TO BE REMOVED. REFER TO ELECTRICAL DRAWINGS. PATCH CMU WALL AS REQUIRED.

D25 REMOVE EXISTING FIRE HOSE CABINET IN ITS ENTIRETY. PATCH WALL AS REQUIRED, ALIGN WITH AND MATCH ADJACENT FINISHES.

D26 REMOVE AND REPLACE FLOOR DRAIN. REMOVE ALL FLOOR TILE. PREPARE FLOOR WITH SELF LEVELING PATCH.

D27 REMOVE EXISTING DRINKING FOUNTAIN AND CONCRETE PLATFORM. GRIND SMOOTH SLAB FOR NEW FLOORING FINISH TO ALIGN WITH ADJACENT FLOOR SURFACE. PATCH WALL TO ALIGN WITH AND MATCH ADJACENT FINISHES.

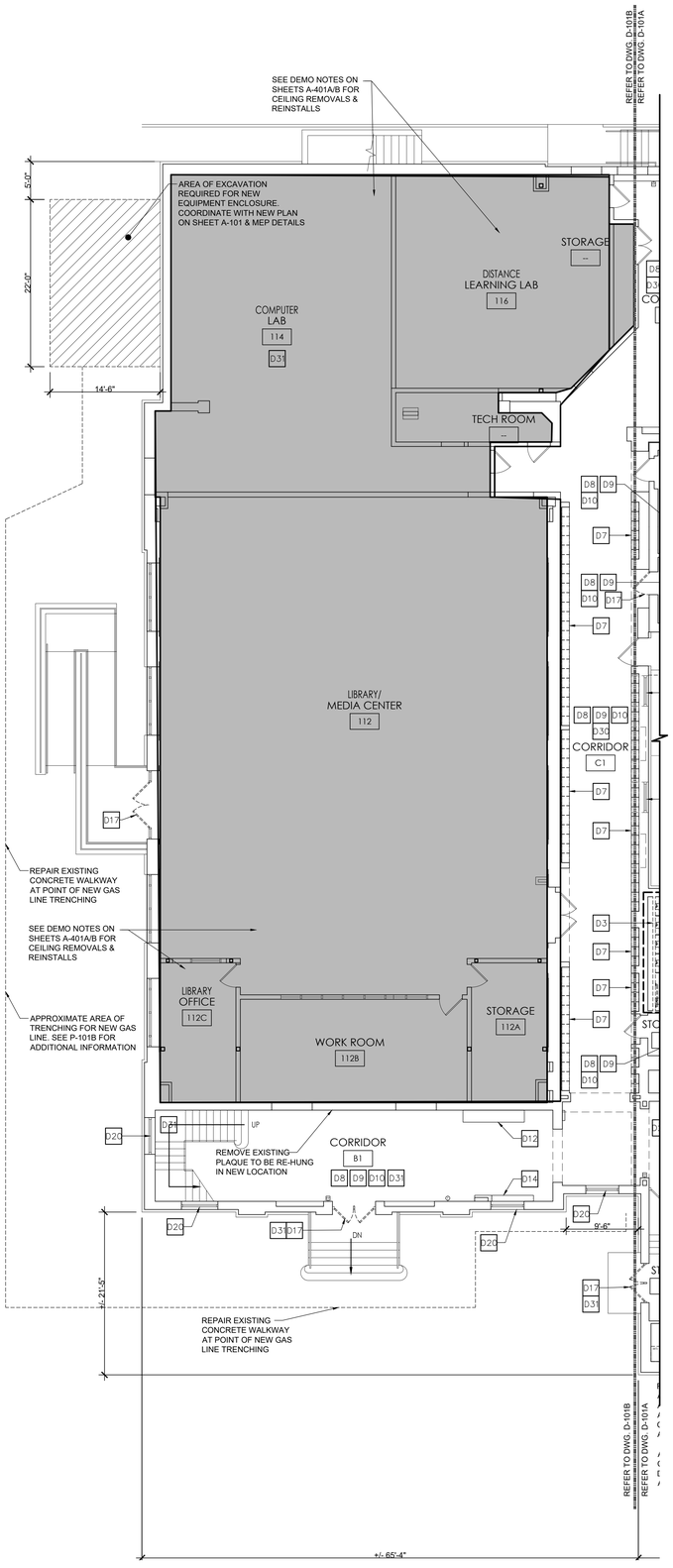
D28 REMOVE EXISTING WINDOW ASSEMBLY. PREPARE FOR NEW G.B. INFILL TO ALIGN WITH EXISTING WALLS. ALL SURFACES TO BE FLUSH AND CONTIGUOUS.

D29 EXISTING ORIGINAL PLASTER CEILING TO REMAIN ABOVE EXISTING ACT. REPAIR AND PATCH AS NECESSARY AT NEW MEP PENETRATIONS.

D30 REMOVE EXISTING ORIGINAL PLASTER CEILING, LOCATED ABOVE EXISTING ACT, IN ITS ENTIRETY AND DISPOSE. REFER TO DETAIL 6/A-730.

D31 THESE PARTITIONS, DOORS FRAMES, RAILING, TRIM, STAIR COMPONENTS, BASEBOARDS, ARCHWAYS & WINDOWS, SILLS AND FRAMES CONTAIN LEAD-BASED PAINT. IF DEMOLITION OF SAME IS INDICATED ON PLANS, IT SHALL BE PERFORMED IN STRICT ACCORDANCE WITH SPECIFICATIONS FOR LEAD-BASED PAINT REMOVAL / DISPOSAL. (REFER TO SEPTEMBER 2022 REPORT)
NOTE: PLAN CALLOUTS THE LEAD BASED LOCATIONS FOR REFERENCE; HOWEVER, THE REPORT SHALL GOVERN IN THE EVENT OF ANY DISCREPANCY.

D32 REMOVE AND DISPOSE OF ALL EXISTING TOILET ROOM ACCESSORIES. CLEAN AND PREPARE ALL SURFACES TO RECEIVE NEW SCHEDULED FINISHES AND TOILET ROOM ACCESSORIES. EXISTING FLOORING TO REMAIN AND NEW



1 PARTIAL FIRST FLOOR DEMOLITION PLAN AREA 'B'

SCALE: 1/8" = 1'-0"

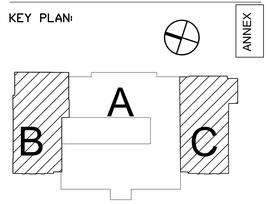
2 PARTIAL FIRST FLOOR DEMOLITION PLAN AREA 'C'

SCALE: 1/8" = 1'-0"

EXISTING ROOM FINISHES - FIRST FLOOR

ROOM NUMBER	ROOM NAME	FLOORING	BASE	WALLS	CEILING	NOTES
B1	CORRIDOR	TERRAZZO	WOOD	PAINT	PLASTER	
C1	CORRIDOR	PAINTED CONC.	PAINTED CONC.	PAINT	ACT	
---	WATER HEATER	VCT	RUBBER	PAINT	ACT	
---	ELECTRICAL	VCT	RUBBER	PAINT	ACT	
C	CORRIDOR	VCT	RUBBER	PAINT	ACT	
D1	CORRIDOR	PAINTED CONC.	PAINTED CONC.	PAINT	ACT	
D	CORRIDOR	VCT	RUBBER	PAINT	ACT	
E	CORRIDOR	VCT	RUBBER	PAINT	ACT	
100	MUSIC ROOM	CARPET	RUBBER	PAINT	ACT	
100A	MUSIC OFFICE	VCT	RUBBER	PAINT	ACT	
100B	STORAGE	VCT	RUBBER	PAINT	ACT	
102	CAFETERIA	VCT	RUBBER	PAINT	ACT	
---	STAIR 4	VCT/ RUBBER	RUBBER/ PAINTED STRINGER	PAINT	ACT	

KEY PLAN:



No.	Date	Description
	12/08/25	OUT TO BID
	12/03/25	DCA Submission

Revisions / Issues

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Richard D. Alderiso , AIA
NJ RA AI 15023, NY RA 027416, PA RA 405474

DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client:

Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:

Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:

Project No: 25.024
Date: 04/09/2025
Drawn By: TC
Checked By: KG

Sheet Name:

FIRST FLOOR DEMOLITION PLAN AREAS B & C

Sheet No:

D-101B

Sheet 0 of 000

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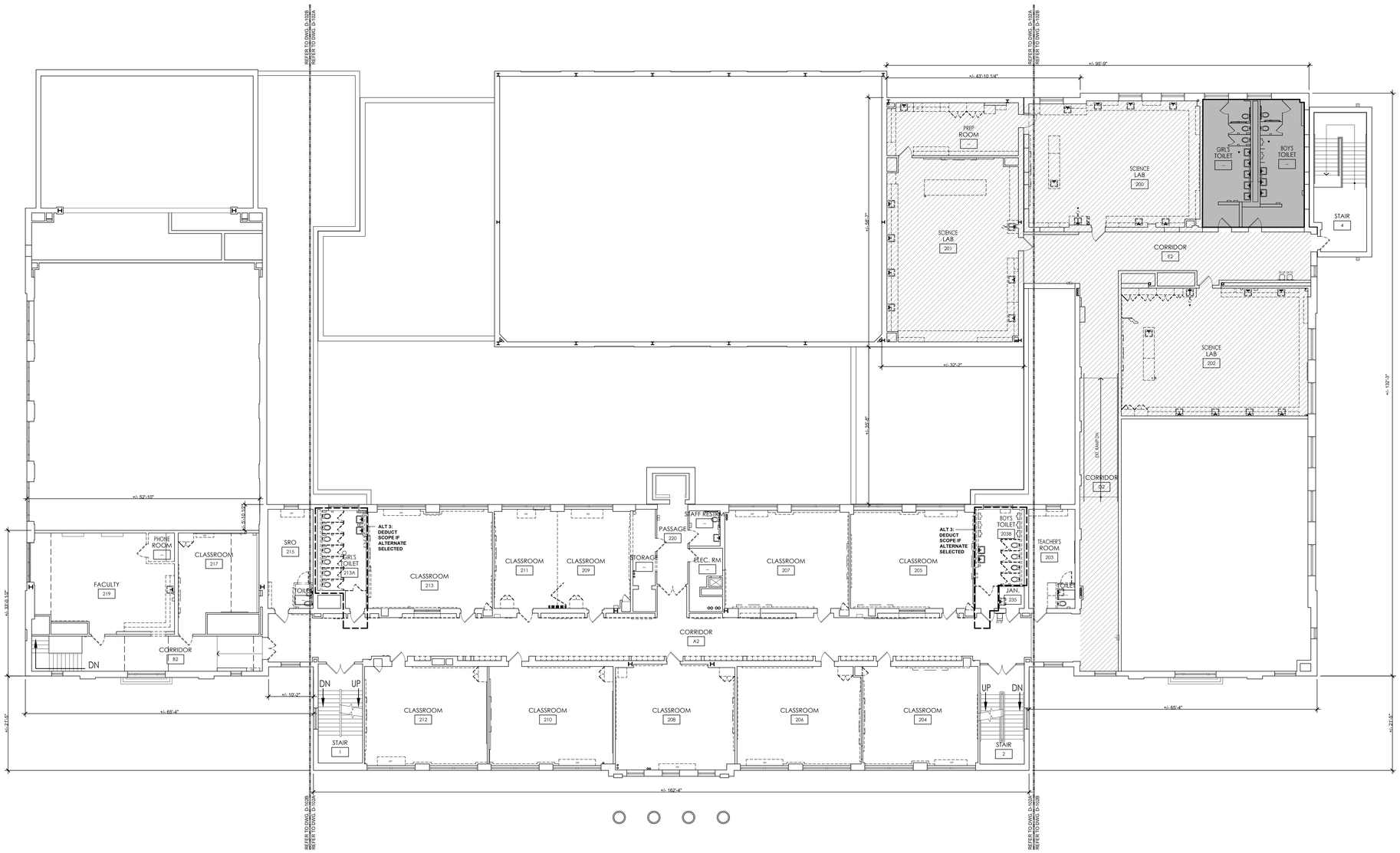
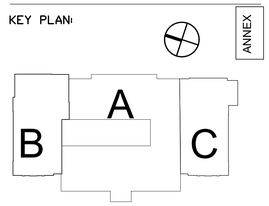


1 SECOND FLOOR DEMOLITION KEY PLAN

SCALE: 3/32" = 1'-0"

KEY PLAN:



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Project:

Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:

Project No: 25.024
Date: 04/09/2025
Drawn By: TC
Checked By: KG

Sheet Name:

SECOND FLOOR DEMOLITION PLAN

Sheet No:

D-102

Sheet 0 of 000

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GENERAL NOTES:
PRIOR TO THE START OF DEMOLITION

1. ALL ITEMS INDICATED FOR REMOVAL SHALL BE DISPOSED OF LEGALLY IN ACCORDANCE WITH THE SPECIFICATIONS UNLESS OTHERWISE NOTED.
2. THE GENERAL CONTRACTOR SHALL REMOVE ALL LOOSE FURNITURE, EQUIPMENT AND APPLIANCES PRIOR TO THE START OF DEMOLITION. THE CONTRACTOR SHALL VERIFY THAT ALL LOOSE FURNITURE, PICTURES, FLOOR MATS, FIRE EXTINGUISHERS, FLAGS, PLANTS, PLAQUES, ETC. HAVE BEEN REMOVED FROM EACH ROOM AREA.
3. TEMPORARY LIGHTING IS TO BE PROVIDED BY CONTRACTOR. LIGHT LEVELS TO BE ADEQUATE FOR THE SAFE PERFORMANCE OF DEMOLITION AND CONSTRUCTION ACTIVITIES.
4. PROVIDE AND INSTALL DUST PROTECTION IN AREAS OF WORK TO MINIMIZE THE AFFECTED AREA OF CLEANUP. ALL AREAS NOTED TO BE NOT IN CONTRACT SHALL BE PROTECTED BY GC. AFTER THE DEMOLITION HAS BEEN COMPLETED, EACH AREA SHALL BE BROOM SWEPT, WIPED DOWN AND VACUUMED REMOVING ALL DEBRIS AND DUST.
5. AT EXISTING TERRAZZO CORRIDOR FLOORS, THE CONTRACTOR SHALL PROVIDE AND INSTALL ½" THICK SHEET "MASONITE" PROTECTION BOARDS PLACED EDGE-TO-EDGE WITH ALL BUTT JOINTS TAPED TO PROTECT EXISTING SURFACES ADJACENT TO THE CORRIDOR ENTRANCE WORK AREAS.
6. PROVIDE AND INSTALL ANY AND ALL REQUIRED TEMPORARY SUPPORT, SHORING, BRACING AND / OR NEEDLING TO STABILIZE AND SUPPORT EXISTING BUILDING FRAMING FOR FLOORS, CEILINGS AND WALLS CONCERNING THE WORK DESCRIBED IN THE CONTRACT DOCUMENTS.
7. PRIOR TO THE REMOVAL OF LIGHTING, EXIT SIGNS, SMOKE DETECTORS, FIRE STROBES, AND PARTITIONS, DISCONNECT / CAP OR TERMINATE ALL ELECTRICAL CIRCUITING AT DISTRIBUTION PANELS, TO FACILITATE WORK SHOWN ON DRAWINGS.
8. ALL EXISTING MECHANICAL, I.T. CIRCUITING AND ELECTRICAL LINES OR CIRCUITS ATTACHED TO EXISTING ASSEMBLIES AND EQUIPMENT SLATED FOR REMOVAL, SHALL BE PROTECTED, MAINTAINED AND REATTACHED OR SECURED TO NEW WORK, EXISTING ADJACENT SURFACES, OR NEW EQUIPMENT.
9. ANY HOLES CREATED IN WALLS, FLOOR, CEILING DURING THE DEMOLITION OR CONSTRUCTION OF THIS PROJECT SHALL BE PATCHED AND FINISHED MATCHING EXISTING ADJACENT ASSEMBLIES BY GENERAL CONTRACTOR.
10. NOTIFY THE ARCHITECT IF EXISTING PLUMBING LINES, DUCTWORK, AND ELECTRICAL LINES SCHEDULED FOR REMOVAL ARE REQUIRED FOR SERVICING OTHER AREAS OF THE BUILDING. DO NOT REMOVE ABOVE MENTIONED EQUIPMENT WITHOUT INSTRUCTIONS FROM THE ARCHITECT.
11. REFERENCE MECHANICAL, ELECTRICAL, PLUMBING DRAWINGS FOR ADDITIONAL DEMOLITION NOTES.
12. IN AREAS WITH EXISTING WOOD FLOORING SUBSTRATE, DAMAGED WOOD SUBSTRATE TO BE REMOVED AND 1/4" PLYWOOD IS TO BE INSTALLED THROUGHOUT.
13. IN THE AREAS WITH EXISTING CONCRETE FLOORING SUBSTRATE, ADD SELF-LEVELING CONCRETE OF ABOUT 1/4" THROUGHOUT.
14. AT THE THIRD FLOOR ABATED FLOORING AREAS, PATCH, SAND, PRIME AND A SKIM COAT FLOOR WITH SELF LEVELING CONCRETE OF 1/4".
15. PATCH ALL FLOORING SEAMS IN AREAS WHERE FLOORING MATERIAL REMAINS.
16. DEMO AREAS OF EXISTING VCT WHERE NOTED AND ALL AREAS OF VCT WHERE THE VCT IS NOT FULLY ADHERED TIGHT TO THE EXISTING SUBSTRATE.
17. FOLLOWING DEMO OF MATERIALS, REPLACE ALL AREAS OF DELAMINATED, SPONGY, EXISTING BUILDERS GRADE PLYWOOD TO STRENGTHEN AND PROVIDE A SOUND BASE TO INSTALL SPECIFIED FLOORING UPON.

AREA OF DEMOLITION WORK ONLY AS DEFINED IN CONTRACT DOCUMENTS.

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INTERIOR DEMOLITION KEY NOTES:

D1 PREP EXISTING CONCRETE FLOOR SLAB FOR PAINT. REMOVE ALL LOOSE DIRT, DEBRIS, AND OLD PAINT. SCARIFY, SCRUB EXISTING SLAB WITH DETERGENT TO REMOVE ALL OIL AND GREASE. ALLOW EXISTING SLAB TO FULLY DRY BEFORE APPLYING PRIMER / PAINT.

D2 PREP EXISTING MASONRY WALLS FOR PAINT, SCRAPE AND REMOVE ALL LOOSE OLD PAINT. REMOVE EXISTING VINYL WALL BASE AND REMAINING ADHESIVE, PREP SURFACE FOR NEW BASE FINISH AS SPECIFIED.

D3 REMOVE EXISTING PARTITION IN ITS ENTIRETY OR PORTION AS SHOWN AND DISPOSE, INCLUDING ALL DOORS, FRAMES, WINDOWS, ETC.WITHIN. PREP ADJACENT PLASTER FINISH TO RECEIVE NEW FINISH. PATCH + PREP FLOOR FOR NEW FINISHES.

3A REMOVE EXISTING MOVEABLE WALL ASSEMBLY INCLUDING ALL FRAMING, STRUCTURE, SUPPORTS, ENCLOSURES AND TRACKS. PATCH FLUSH AND SMOOTH ALL DISTURBED WALLS, FLOORS AND CEILING.

D4 REMOVE EXISTING CHAIN HUNG / THREADED ROD SUSPENDED LIGHTING FIXTURES IN THEIR ENTIRETY. REFER TO ELECTRICAL DEMOLITION PLANS FOR ADDITIONAL INFORMATION.

D5 REMOVE EXISTING BUILT-IN WOOD SHELVING / CLOSET IN ITS ENTIRETY AND DISPOSE. PREPARE ADJACENT SURFACES TO RECEIVE NEW FINISH.

D6 REMOVE EXISTING WOOD DOORS AND FRAME ASSEMBLY AND DISPOSE. MODIFY OPENING TO RECEIVE NEW DOOR AND FRAME ASSEMBLY AS SPECIFIED. PROVIDE AND INSTALL NEW LINTEL AS SHOWN ON STRUCTURAL DRAWING LINTEL SCHEDULE.

D7 REMOVE EXISTING RECESSED METAL LOCKERS IN THEIR ENTIRETY AND DISPOSE. PREP ADJACENT SURFACES FOR PARTITION INFILL.

D7A REMOVE EXISTING METAL LOCKERS IN THEIR ENTIRETY AND DISPOSE. PATCH AND REPAIR ADJACENT SURFACES AND PREPARE FOR NEW SCHEDULED FINISHES.

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- CARPET - TO BE REMOVED
- VCT - TO BE REMOVED
- CERAMIC TILE - TO REMAIN U.O.N.
- TERRAZZO - TO REMAIN, PREP FOR NEW FLOOR FINISH
- TILE BASE - TO REMAIN U.O.N.
- RUBBER BASE - TO BE REMOVED
- RUBBER BASE ON EXISTING WOOD - ONLY RUBBER TO BE REMOVED
- ACOUSTICAL CEILING TILE & GRID - TO BE REMOVED
- TACK BOARDS - TO BE REMOVED
- WHITEBOARDS - TO BE REMOVED
- WALL MOUNTED ITEMS - TO BE REMOVED
- WOOD BASE - TO REMAIN

D9 DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES IN THEIR ENTIRETY AND DISPOSE. REFER TO ELECTRICAL PLANS FOR ADDITIONAL INFORMATION. REMOVE EXISTING CEILING TILES, GRID & DEVICES. REFER TO ELECTRICAL PLANS FOR ADDITIONAL INFORMATION ON DISPOSAL OR REINSTALLATION OF DEVICES. SEE MECHANICAL DEMO PLANS FOR ALL OUTLETS/ PIPING TO BE REMOVED IN THEIR ENTIRETY.

D10 DISCONNECT AND REMOVE ALL ELECTRICAL AND DEVICES INCLUDING WIRE MOLD, RECEPTACLES, SWITCHES, DATA, FIRE ALARM PULL STATIONS, HORN STROBES, CLOCKS, ETC. SHALL BE BROUGHT BACK TO THE PANEL TO TERMINATE. REFER TO ELECTRICAL PLANS FOR ADDITIONAL INFORMATION. PATCH WALLS/FLOORS/CEILINGS AT REMOVAL LOCATIONS.

D11 REMOVE EXISTING PLYWOOD COVER/ AND METAL LOCKERS IN THEIR ENTIRETY AND DISPOSE. PREP ADJACENT SURFACES TO RECEIVE NEW FINISHES. FILL IN OPENING WITH METAL STUD AND ABUSE RESISTANT GYPSUM BOARD. SEE DETAILS ON SHEET A-730.

D12 REMOVE EXISTING CASEWORK, SHELVES, COUNTERTOPS, AND OVERHEAD CABINETS IN THEIR ENTIRETY AND DISPOSE. DISCONNECT AND CAP PLUMBING IF SINK IS BEING REMOVED WITH COUNTERTOPS, REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

D13 REMOVE EXISTING TOILET PARTITIONS AND FIXTURES IN THEIR ENTIRETY AND CAP PLUMBING. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION. REMOVE CHASE WALL TO INSTALL NEW FIXTURES. REPLACE WALL & FINISH AS SPECIFIED. ALL FINISHES TO BE CONTIGUOUS & FLUSH.

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D15 REMOVE PORTION OF EXISTING WALL FOR INSTALLATION OF NEW DOOR. REFER TO PLANS AND DOOR SCHEDULE FOR ADDITIONAL INFORMATION.

D16 REMOVE EXISTING DOOR, SIDELITES,TRANSOM, STOREFRONT SYSTEM AND FRAME IN ITS ENTIRETY AND DISPOSE. PREP ADJACENT SURFACES TO RECEIVE NEW FINISH.

D17 REMOVE EXISTING DOOR AND HARDWARE AND DISPOSE, PREP/MODIFY FRAME TO RECEIVE NEW DOOR AND NEW HARDWARE. REFER TO DOOR HARDWARE SPECIFICATIONS.

D18 NOT USED

D19 DISCONNECT AND REMOVE EXISTING MECHANICAL UNIT IN ITS ENTIRETY. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION. ALL SURFACES TO BE SMOOTH & FINISHES CONTIGUOUS. NEW FINISH AS SCHEDULED.

D20 PREP FOR INSTALLATION OF NEW ROLLER SHADES PER FINISH SCHEDULE. PREP FOR INSTALLATION OF NEW INSECT SCREENS AT ALL OPERABLE WINDOWS

D21 REMOVE RAILING AND ALL ASSOCIATED HARDWARE AND DISPOSE.

D22 NOT USED.

D23 REMOVE EXISTING KITCHEN APPLIANCES IN THEIR ENTIRETY. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION.

D24 EXISTING SECURITY PANEL AND CONDUIT TO BE REMOVED. REFER TO ELECTRICAL DRAWINGS. PATCH CMU WALL AS REQUIRED.

D25 REMOVE EXISTING FIRE HOSE CABINET IN ITS ENTIRETY. PATCH WALL AS REQUIRED, ALIGN WITH AND MATCH ADJACENT FINISHES.

D26 REMOVE AND REPLACE FLOOR DRAIN. REMOVE ALL FLOOR TILE. PREPARE FLOOR WITH SELF LEVELING PATCH.

D27 REMOVE EXISTING DRINKING FOUNTAIN AND CONCRETE PLATFORM. GRIND SMOOTH SLAB FOR NEW FLOORING FINISH TO ALIGN WITH ADJACENT FLOOR SURFACE. PATCH WALL TO ALIGN WITH AND MATCH ADJACENT FINISHES.

D28 REMOVE EXISTING WINDOW ASSEMBLY. PREPARE FOR NEW G.B. INFILL TO ALIGN WITH EXISTING WALLS. ALL SURFACES TO BE FLUSH AND CONTIGUOUS.

D29 EXISTING ORIGINAL PLASTER CEILING TO REMAIN ABOVE EXISTING ACT. REPAIR AND PATCH AS NECESSARY AT NEW MEP PENETRATIONS.

D30 REMOVE EXISTING ORIGINAL PLASTER CEILING, LOCATED ABOVE EXISTING ACT, IN ITS ENTIRETY AND DISPOSE. REFER TO DETAIL 6/A-730.

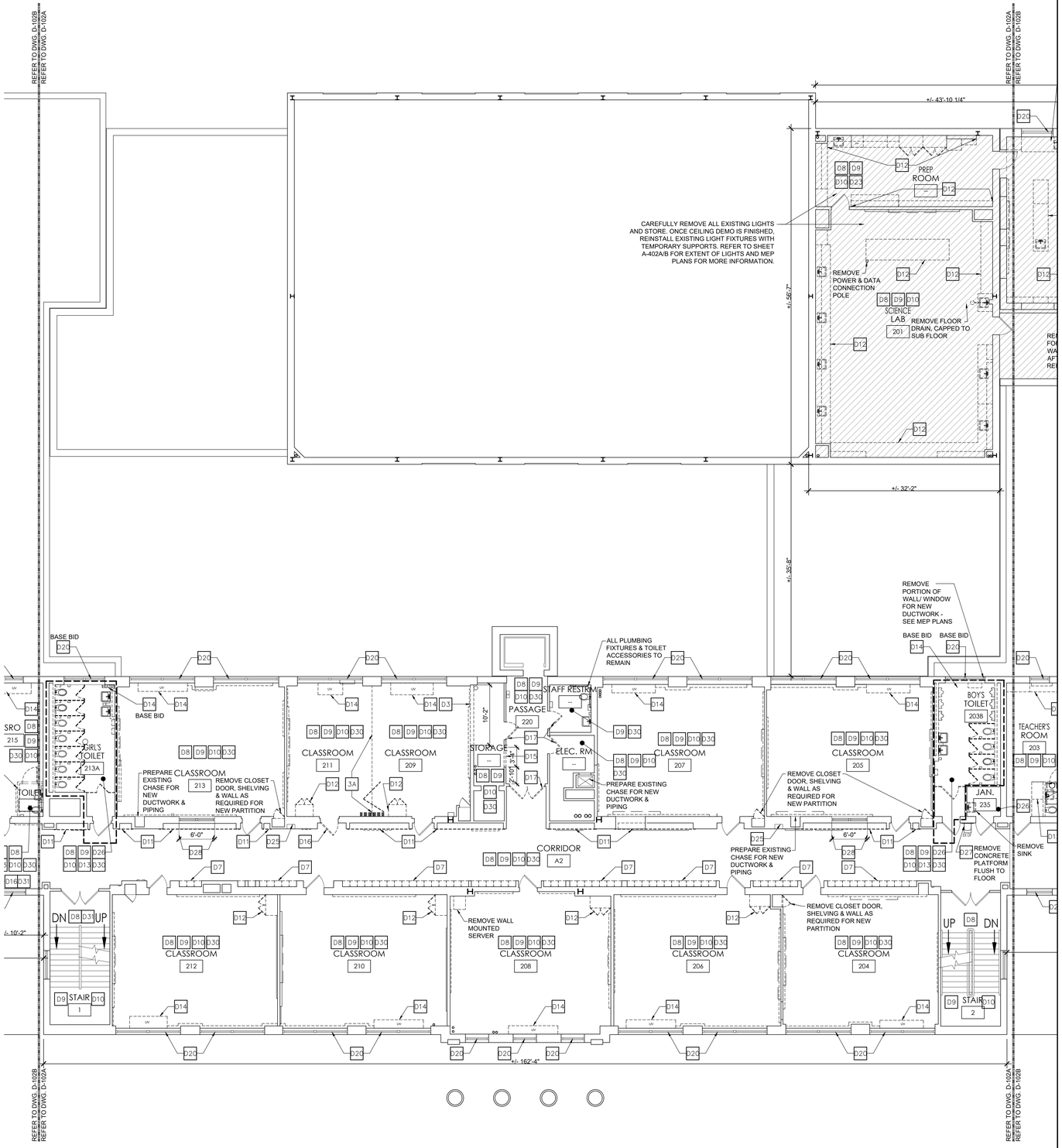
D31 THESE PARTITIONS, DOORS FRAMES, RAILING, TRIM, STAIR COMPONENTS, BASEBOARDS, ARCHWAYS & WINDOWS, SILLS AND FRAMES CONTAIN LEAD-BASED PAINT. IF DEMOLITION OF SAME IS INDICATED ON PLANS, IT SHALL BE PERFORMED IN STRICT ACCORDANCE WITH SPECIFICATIONS FOR LEAD-BASED PAINT REMOVAL / DISPOSAL. (REFER TO SEPTEMBER 2022 REPORT)
NOTE: PLAN CALLOUTS THE LEAD BASED LOCATIONS FOR REFERENCE; HOWEVER, THE REPORT SHALL GOVERN IN THE EVENT OF ANY DISCREPANCY.

D32 REMOVE AND DISPOSE OF ALL EXISTING TOILET ROOM ACCESSORIES. CLEAN AND PREPARE ALL SURFACES TO RECEIVE NEW SCHEDULED FINISHES AND TOILET ROOM ACCESSORIES. EXISTING FLOORING TO REMAIN AND NEW FLOORING TO BE INSTALLED ON TOP.

EXISTING ROOM FINISHES

SECOND FLOOR

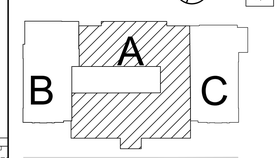
ROOM NUMBER	ROOM NAME	FLOORING	BASE	WALLS	CEILING	NOTES
A2	CORRIDOR	VCT	PNT. CONC./ RUBBER	PAINT	ACT	
203A	JAN. CLOSET			PAINT	ACT	
203B	BOYS TOILET	CERAMIC TILE	CERAMIC TILE	PAINT	ACT	ALTERNATE #3
204	CLASSROOM	VCT	RUBBER OVER WOOD	PAINT	ACT	
205	CLASSROOM	VCT	RUBBER OVER WOOD	PAINT	ACT	
206	CLASSROOM	VCT	RUBBER OVER WOOD	PAINT	ACT	
207	CLASSROOM	VCT	RUBBER OVER WOOD	PAINT	ACT	
208	CLASSROOM	VCT	RUBBER	PAINT	ACT	
209	CLASSROOM	VCT	RUBBER OVER WOOD	PAINT	ACT	
210	CLASSROOM	VCT	RUBBER	PAINT	ACT	
211	CLASSROOM	VCT	RUBBER OVER WOOD	PAINT	ACT	
212	CLASSROOM	VCT	RUBBER/ OVER WOOD	PAINT	ACT	
213	CLASSROOM	VCT	RUBBER OVER WOOD	PAINT	ACT	
213A	GIRLS TOILET	TERRAZZO	TERRAZZO/ C. TILE	PAINT	ACT	ALTERNATE #3
220	PASSAGE	VCT	RUBBER	PAINT	ACT	
---	STORAGE	VCT	RUBBER	PAINT	ACT	
---	STAFF RESTROOM	CERAMIC TILE	CERAMIC TILE	C. TILE	ACT	
---	ELEC. ROOM	VCT	RUBBER	PAINT	ACT	
201	SCIENCE LAB	VCT	RUBBER	PAINT	ACT	
---	PREP ROOM	VCT	RUBBER	PAINT	ACT	
--	STAIR 1	METAL TREADS/ PAINTED CONCRETE LANDINGS	PAINTED STRINGER	PAINT	PLASTER	
--	STAIR 2	METAL TREADS/ PAINTED CONCRETE LANDINGS	PAINTED STRINGER	PAINT	PLASTER	



PARTIAL SECOND FLOOR DEMOLITION PLAN AREA 'A'

1 SCALE: 1/8" = 1'-0"

KEY PLAN:



No.	Date	Description
	12/08/25	OUT TO BID
	12/03/25	DCA Submission

Revisions / Issues

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DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date: 04/09/2025
Drawn By: TC
Checked By: KG

Sheet Name:
SECOND FLOOR DEMOLITION PLAN AREA 'A'

Sheet No:
D-102A
Sheet 0 of 000

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GENERAL NOTES:
PRIOR TO THE START OF DEMOLITION

1. ALL ITEMS INDICATED FOR REMOVAL SHALL BE DISPOSED OF LEGALLY IN ACCORDANCE WITH THE SPECIFICATIONS UNLESS OTHERWISE NOTED.
2. THE GENERAL CONTRACTOR SHALL REMOVE ALL LOOSE FURNITURE, EQUIPMENT AND APPLIANCES PRIOR TO THE START OF DEMOLITION. THE CONTRACTOR SHALL VERIFY THAT ALL LOOSE FURNITURE, PICTURES, FLOOR MATS, FIRE EXTINGUISHERS, FLAGS, PLANTS, PLAQUES, ETC. HAVE BEEN REMOVED FROM EACH ROOM AREA.
3. TEMPORARY LIGHTING IS TO BE PROVIDED BY CONTRACTOR. LIGHT LEVELS TO BE ADEQUATE FOR THE SAFE PERFORMANCE OF DEMOLITION AND CONSTRUCTION ACTIVITIES.
4. PROVIDE AND INSTALL DUST PROTECTION IN AREAS OF WORK TO MINIMIZE THE AFFECTED AREA OF CLEANUP. ALL AREAS NOTED TO BE NOT IN CONTRACT SHALL BE PROTECTED BY GC. AFTER THE DEMOLITION HAS BEEN COMPLETED, EACH AREA SHALL BE BROOM SWEPT, WIPED DOWN AND VACUUMED REMOVING ALL DEBRIS AND DUST.
5. AT EXISTING TERRAZZO CORRIDOR FLOORS, THE CONTRACTOR SHALL PROVIDE AND INSTALL ½" THICK SHEET "MASONITE" PROTECTION BOARDS PLACED EDGE-TO-EDGE WITH ALL BUTT JOINTS TAPED TO PROTECT EXISTING SURFACES ADJACENT TO THE CORRIDOR ENTRANCE WORK AREAS.
6. PROVIDE AND INSTALL ANY AND ALL REQUIRED TEMPORARY SUPPORT, SHORING, BRACING AND / OR NEEDLING TO STABILIZE AND SUPPORT EXISTING BUILDING FRAMING FOR FLOORS, CEILINGS AND WALLS CONCERNING THE WORK DESCRIBED IN THE CONTRACT DOCUMENTS.
7. PRIOR TO THE REMOVAL OF LIGHTING, EXIT SIGNS, SMOKE DETECTORS, FIRE STROBES, AND PARTITIONS, DISCONNECT / CAP OR TERMINATE ALL ELECTRICAL CIRCUITING AT DISTRIBUTION PANELS, TO FACILITATE WORK SHOWN ON DRAWINGS.
8. ALL EXISTING MECHANICAL, I.T. CIRCUITING AND ELECTRICAL LINES OR CIRCUITS ATTACHED TO EXISTING ASSEMBLIES AND EQUIPMENT SLATED FOR REMOVAL, SHALL BE PROTECTED, MAINTAINED AND REATTACHED OR SECURED TO NEW WORK, EXISTING ADJACENT SURFACES, OR NEW EQUIPMENT.
9. ANY HOLES CREATED IN WALLS, FLOOR, CEILING DURING THE DEMOLITION OR CONSTRUCTION OF THIS PROJECT SHALL BE PATCHED AND FINISHED MATCHING EXISTING ADJACENT ASSEMBLIES BY GENERAL CONTRACTOR.
10. NOTIFY THE ARCHITECT IF EXISTING PLUMBING LINES, DUCTWORK, AND ELECTRICAL LINES SCHEDULED FOR REMOVAL ARE REQUIRED FOR SERVICING OTHER AREAS OF THE BUILDING. DO NOT REMOVE ABOVE MENTIONED EQUIPMENT WITHOUT INSTRUCTIONS FROM THE ARCHITECT.
11. REFERENCE MECHANICAL, ELECTRICAL, PLUMBING DRAWINGS FOR ADDITIONAL DEMOLITION NOTES.
12. IN AREAS WITH EXISTING WOOD FLOORING SUBSTRATE, DAMAGED WOOD SUBSTRATE TO BE REMOVED AND 1/4" PLYWOOD IS TO BE INSTALLED THROUGHOUT.
13. IN THE AREAS WITH EXISTING CONCRETE FLOORING SUBSTRATE, ADD SELF-LEVELING CONCRETE OF ABOUT 1/4" THROUGHOUT.
14. AT THE THIRD FLOOR ABATED FLOORING AREAS, PATCH, SAND, PRIME AND A SKIM COAT FLOOR WITH SELF LEVELING CONCRETE OF 1/4".
15. PATCH ALL FLOORING SEAMS IN AREAS WHERE FLOORING MATERIAL REMAINS.
16. DEMO AREAS OF EXISTING VCT WHERE NOTED AND ALL AREAS OF VCT WHERE THE VCT IS NOT FULLY ADHERED TIGHT TO THE EXISTING SUBSTRATE.
17. FOLLOWING DEMO OF MATERIALS, REPLACE ALL AREAS OF DELAMINATED, SPONGY, EXISTING BUILDERS GRADE PLYWOOD TO STRENGTHEN AND PROVIDE A SOUND BASE TO INSTALL SPECIFIED FLOORING UPON.

AREA OF DEMOLITION WORK ONLY AS DEFINED IN CONTRACT DOCUMENTS.

AREA OF LIMITED WORK BASED ON MEPFP MODIFICATIONS AS DEFINED IN CONTRACT DOCUMENTS.

INTERIOR DEMOLITION KEY NOTES:

D1 PREP EXISTING CONCRETE FLOOR SLAB FOR PAINT. REMOVE ALL LOOSE DIRT, DEBRIS, AND OLD PAINT. SCARIFY, SCRUB EXISTING SLAB WITH DETERGENT TO REMOVE ALL OIL AND GREASE. ALLOW EXISTING SLAB TO FULLY DRY BEFORE APPLYING PRIMER / PAINT.

D2 PREP EXISTING MASONRY WALLS FOR PAINT, SCRAPE AND REMOVE ALL LOOSE OLD PAINT. REMOVE EXISTING VINYL WALL BASE AND REMAINING ADHESIVE, PREP SURFACE FOR NEW BASE FINISH AS SPECIFIED.

D3 REMOVE EXISTING PARTITION IN ITS ENTIRETY OR PORTION AS SHOWN AND DISPOSE, INCLUDING ALL DOORS, FRAMES, WINDOWS, ETC.WITHIN. PREP ADJACENT PLASTER FINISH TO RECEIVE NEW FINISH. PATCH + PREP FLOOR FOR NEW FINISHES.

3A REMOVE EXISTING MOVEABLE WALL ASSEMBLY INCLUDING ALL FRAMING, STRUCTURE, SUPPORTS, ENCLOSURES AND TRACKS. PATCH FLUSH AND SMOOTH ALL DISTURBED WALLS, FLOORS AND CEILING.

D4 REMOVE EXISTING CHAIN HUNG / THREADED ROD SUSPENDED LIGHTING FIXTURES IN THEIR ENTIRETY. REFER TO ELECTRICAL DEMOLITION PLANS FOR ADDITIONAL INFORMATION.

D5 REMOVE EXISTING BUILT-IN WOOD SHELVING / CLOSET IN ITS ENTIRETY AND DISPOSE. PREPARE ADJACENT SURFACES TO RECEIVE NEW FINISH.

D6 REMOVE EXISTING WOOD DOORS AND FRAME ASSEMBLY AND DISPOSE. MODIFY OPENING TO RECEIVE NEW DOOR AND FRAME ASSEMBLY AS SPECIFIED. PROVIDE AND INSTALL NEW LINTEL AS SHOWN ON STRUCTURAL DRAWING LINTEL SCHEDULE.

D7 REMOVE EXISTING RECESSED METAL LOCKERS IN THEIR ENTIRETY AND DISPOSE. PREP ADJACENT SURFACES FOR PARTITION INFILL.

D7A REMOVE EXISTING METAL LOCKERS IN THEIR ENTIRETY AND DISPOSE. PATCH AND REPAIR ADJACENT SURFACES AND PREPARE FOR NEW SCHEDULED FINISHES.

D8 REMOVE EXISTING FINISHES IN THEIR ENTIRETY (FLOOR, BASE, WALLS AND CEILING) AND DISPOSE. REFER TO EXISTING FINISH SCHEDULE FOR RECORD OF FINISHES.
- CARPET - TO BE REMOVED
- VCT - TO BE REMOVED
- CERAMIC TILE - TO REMAIN U.O.N.
- TERRAZZO - TO REMAIN, PREP FOR NEW FLOOR FINISH
- TILE BASE - TO REMAIN U.O.N.
- RUBBER BASE - TO BE REMOVED
- RUBBER BASE ON EXISTING WOOD - ONLY RUBBER TO BE REMOVED
- ACOUSTICAL CEILING TILE & GRID - TO BE REMOVED
- TACK BOARDS - TO BE REMOVED
- WHITEBOARDS - TO BE REMOVED
- WALL MOUNTED ITEMS - TO BE REMOVED
- WOOD BASE - TO REMAIN

D9 DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES IN THEIR ENTIRETY AND DISPOSE. REFER TO ELECTRICAL PLANS FOR ADDITIONAL INFORMATION. REMOVE EXISTING CEILING TILES, GRID & DEVICES. REFER TO ELECTRICAL PLANS FOR ADDITIONAL INFORMATION ON DISPOSAL OR REINSTALLATION OF DEVICES. SEE MECHANICAL DEMO PLANS FOR ALL OUTLETS/ PIPING TO BE REMOVED IN THEIR ENTIRETY.

D10 DISCONNECT AND REMOVE ALL ELECTRICAL AND DEVICES INCLUDING WIRE MOLD, RECEPTACLES, SWITCHES, DATA, FIRE ALARM PULL STATIONS, HORN STROBES, CLOCKS, ETC. SHALL BE BROUGHT BACK TO THE PANEL TO TERMINATE. REFER TO ELECTRICAL PLANS FOR ADDITIONAL INFORMATION. PATCH WALLS/FLOORS/CEILINGS AT REMOVAL LOCATIONS.

D11 REMOVE EXISTING PLYWOOD COVER/ AND METAL LOCKERS IN THEIR ENTIRETY AND DISPOSE. PREP ADJACENT SURFACES TO RECEIVE NEW FINISHES. FILL IN OPENING WITH METAL STUD AND ABUSE RESISTANT GYPSUM BOARD. SEE DETAILS ON SHEET A-730.

D12 REMOVE EXISTING CASEWORK, SHELVES, COUNTERTOPS, AND OVERHEAD CABINETS IN THEIR ENTIRETY AND DISPOSE. DISCONNECT AND CAP PLUMBING IF SINK IS BEING REMOVED WITH COUNTERTOPS, REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

D13 REMOVE EXISTING TOILET PARTITIONS AND FIXTURES IN THEIR ENTIRETY AND CAP PLUMBING. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION. REMOVE CHASE WALL TO INSTALL NEW FIXTURES. REPLACE WALL & FINISH AS SPECIFIED. ALL FINISHES TO BE CONTIGUOUS & FLUSH.

D14 DISCONNECT AND REMOVE EXISTING MECHANICAL UNIT (RADIATOR, UNIT VENTILATOR, ETC.) IN ITS ENTIRETY. PREP WALL TO INSTALL MISSING BASE TO MATCH ADJACENT TRIM. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION. PATCH WALLS/FLOORS/CEILINGS AT REMOVAL LOCATIONS. PATCH ALL SURFACES & PREPARE FOR NEW SCHEDULED FINISHES. ALL MECHANICAL WORK, INCLUDING GANG TOILET ROOMS ARE BASE BID. SEE DETAIL 5/A-730 FOR REPAIR DETAILS

D15 REMOVE PORTION OF EXISTING WALL FOR INSTALLATION OF NEW DOOR. REFER TO PLANS AND DOOR SCHEDULE FOR ADDITIONAL INFORMATION.

D16 REMOVE EXISTING DOOR, SIDELITES,TRANSOM, STOREFRONT SYSTEM AND FRAME IN ITS ENTIRETY AND DISPOSE. PREP ADJACENT SURFACES TO RECEIVE NEW FINISH.

D17 REMOVE EXISTING DOOR AND HARDWARE AND DISPOSE, PREP/MODIFY FRAME TO RECEIVE NEW DOOR AND NEW HARDWARE. REFER TO DOOR HARDWARE SPECIFICATIONS.

D18 NOT USED

D19 DISCONNECT AND REMOVE EXISTING MECHANICAL UNIT IN ITS ENTIRETY. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION. ALL SURFACES TO BE SMOOTH & FINISHES CONTIGUOUS. NEW FINISH AS SCHEDULED.

D20 PREP FOR INSTALLATION OF NEW ROLLER SHADES PER FINISH SCHEDULE. PREP FOR INSTALLATION OF NEW INSECT SCREENS AT ALL OPERABLE WINDOWS

D21 REMOVE RAILING AND ALL ASSOCIATED HARDWARE AND DISPOSE.

D22 NOT USED.

D23 REMOVE EXISTING KITCHEN APPLIANCES IN THEIR ENTIRETY. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION.

D24 EXISTING SECURITY PANEL AND CONDUIT TO BE REMOVED. REFER TO ELECTRICAL DRAWINGS. PATCH CMU WALL AS REQUIRED.

D25 REMOVE EXISTING FIRE HOSE CABINET IN ITS ENTIRETY. PATCH WALL AS REQUIRED, ALIGN WITH AND MATCH ADJACENT FINISHES.

D26 REMOVE AND REPLACE FLOOR DRAIN. REMOVE ALL FLOOR TILE. PREPARE FLOOR WITH SELF LEVELING PATCH.

D27 REMOVE EXISTING DRINKING FOUNTAIN AND CONCRETE PLATFORM. GRIND SMOOTH SLAB FOR NEW FLOORING FINISH TO ALIGN WITH ADJACENT FLOOR SURFACE. PATCH WALL TO ALIGN WITH AND MATCH ADJACENT FINISHES.

D28 REMOVE EXISTING WINDOW ASSEMBLY. PREPARE FOR NEW G.B. INFILL TO ALIGN WITH EXISTING WALLS. ALL SURFACES TO BE FLUSH AND CONTIGUOUS.

D29 EXISTING ORIGINAL PLASTER CEILING TO REMAIN ABOVE EXISTING ACT. REPAIR AND PATCH AS NECESSARY AT NEW MEP PENETRATIONS.

D30 REMOVE EXISTING ORIGINAL PLASTER CEILING, LOCATED ABOVE EXISTING ACT, IN ITS ENTIRETY AND DISPOSE. REFER TO DETAIL 6/A-730.

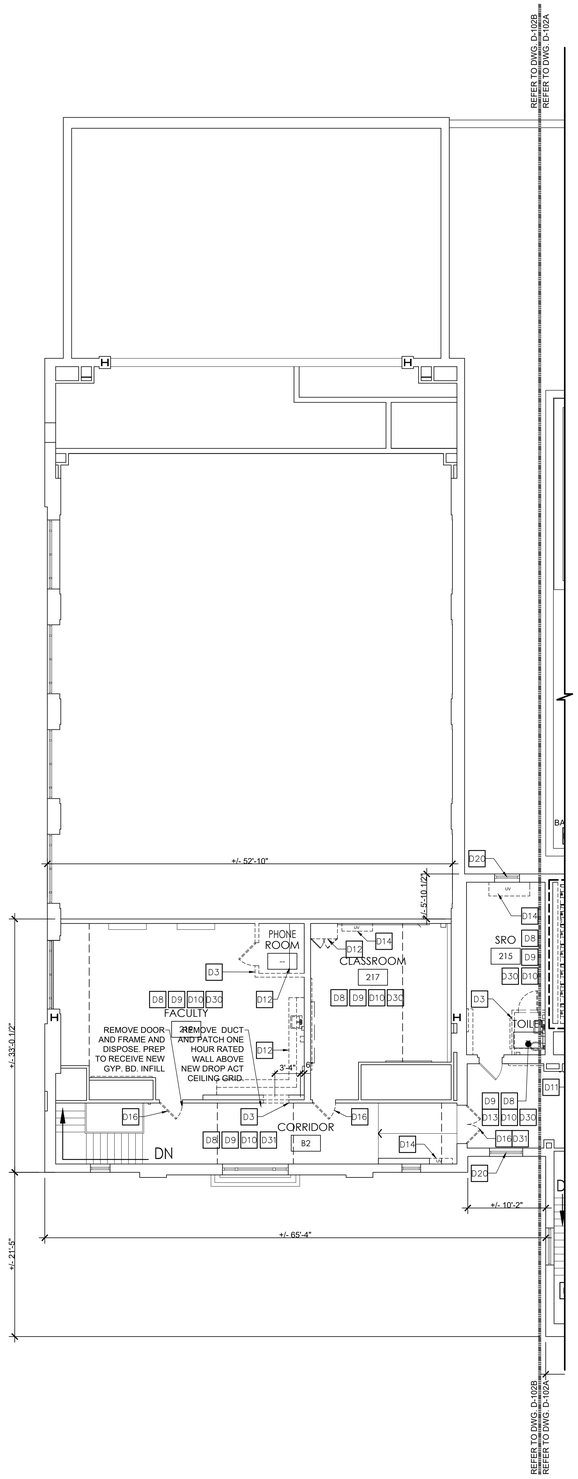
D31 THESE PARTITIONS, DOORS FRAMES, RAILING, TRIM, STAIR COMPONENTS, BASEBOARDS, ARCHWAYS & WINDOWS, SILLS AND FRAMES CONTAIN LEAD-BASED PAINT. IF DEMOLITION OF SAME IS INDICATED ON PLANS, IT SHALL BE PERFORMED IN STRICT ACCORDANCE WITH SPECIFICATIONS FOR LEAD-BASED PAINT REMOVAL / DISPOSAL. (REFER TO SEPTEMBER 2022 REPORT)
NOTE: PLAN CALLOUTS THE LEAD BASED LOCATIONS FOR REFERENCE; HOWEVER, THE REPORT SHALL GOVERN IN THE EVENT OF ANY DISCREPANCY.

D32 REMOVE AND DISPOSE OF ALL EXISTING TOILET ROOM ACCESSORIES. CLEAN AND PREPARE ALL SURFACES TO RECEIVE NEW SCHEDULED FINISHES AND TOILET ROOM ACCESSORIES. EXISTING FLOORING TO REMAIN AND NEW

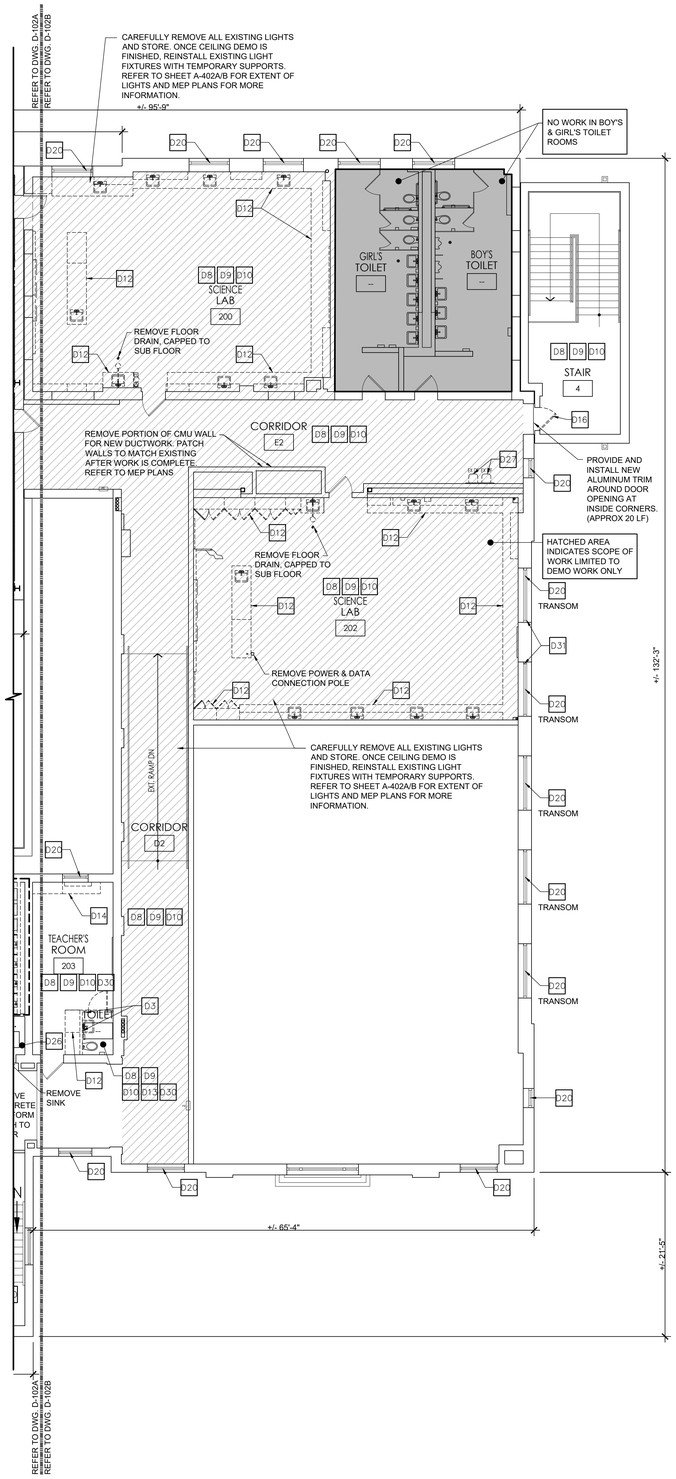
EXISTING ROOM FINISHES

SECOND FLOOR

ROOM NUMBER	ROOM NAME	FLOORING	BASE	WALLS	CEILING	NOTES
203	TEACHERS ROOM	WOOD	WOOD	PAINT	PLASTER	
---	TOILET	WOOD	WOOD	PAINT	PLASTER	
D2	CORRIDOR	VCT	RUBBER	PAINT	ACT	
202	SCIENCE LAB	VCT	RUBBER	PAINT	ACT	
E2	CORRIDOR	VCT	RUBBER	PAINT	ACT	
200	SCIENCE LAB	VCT	RUBBER	PAINT	ACT	
---	BOYS TOILET	CERAMIC TILE	CERAMIC TILE	PAINT	ACT	
---	GIRLS TOILET	CERAMIC TILE	CERAMIC TILE	PAINT	ACT	
215	SRO	CARPET	WOOD	PAINT	ACT	
---	TOILET	WOOD	WOOD	PAINT	PLASTER	
217	CLASSROOM	VCT	RUBBER	PAINT	ACT	
219	FACULTY	CARPET/ VCT	RUBBER	PAINT	ACT	
---	PHONE ROOM	CARPET	RUBBER	PAINT	ACT	
B2	CORRIDOR	TERRAZZO	WOOD	PAINT	PLASTER	
---	STAIR 4	VCT/ RUBBER	RUBBER/ PAINTED STRINGER	PAINT	ACT	

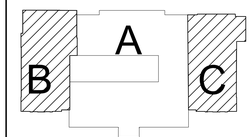


1 PARTIAL SECOND FLOOR DEMOLITION PLAN AREA 'B'
SCALE: 1/8" = 1'-0"



2 PARTIAL SECOND FLOOR DEMOLITION PLAN AREA 'C'
SCALE: 1/8" = 1'-0"

KEY PLAN:



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Drawing Information:
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Sheet Name:
SECOND FLOOR DEMOLITION PLAN AREAS B & C

Sheet No:
D-102B
Sheet 0 of 000

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P:\2025\25.024 ROWAN GIS ROUND 5\DRAWINGS\CONDOCS\D\DDS DEMOLITION DRAWINGS\

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GENERAL NOTES:

PRIOR TO THE START OF DEMOLITION

1. ALL ITEMS INDICATED FOR REMOVAL SHALL BE DISPOSED OF LEGALLY IN ACCORDANCE WITH THE SPECIFICATIONS UNLESS OTHERWISE NOTED.
2. THE GENERAL CONTRACTOR SHALL REMOVE ALL LOOSE FURNITURE, EQUIPMENT AND APPLIANCES PRIOR TO THE START OF DEMOLITION. THE CONTRACTOR SHALL VERIFY THAT ALL LOOSE FURNITURE, PICTURES, FLOOR MATS, FIRE EXTINGUISHERS, FLAGS, PLANTS, PLAQUES, ETC. HAVE BEEN REMOVED FROM EACH ROOM AREA.
3. TEMPORARY LIGHTING IS TO BE PROVIDED BY CONTRACTOR. LIGHT LEVELS TO BE ADEQUATE FOR THE SAFE PERFORMANCE OF DEMOLITION AND CONSTRUCTION ACTIVITIES.
4. PROVIDE AND INSTALL DUST PROTECTION IN AREAS OF WORK TO MINIMIZE THE AFFECTED AREA OF CLEANUP. ALL AREAS NOTED TO BE NOT IN CONTRACT SHALL BE PROTECTED BY GC. AFTER THE DEMOLITION HAS BEEN COMPLETED, EACH AREA SHALL BE BROOM SWEPT, WIPED DOWN AND VACUUMED REMOVING ALL DEBRIS AND DUST.
5. AT EXISTING TERRAZZO CORRIDOR FLOORS, THE CONTRACTOR SHALL PROVIDE AND INSTALL ½" THICK SHEET "MASONITE" PROTECTION BOARDS PLACED EDGE-TO-EDGE WITH ALL BUTT JOINTS TAPED TO PROTECT EXISTING SURFACES ADJACENT TO THE CORRIDOR ENTRANCE WORK AREAS.
6. PROVIDE AND INSTALL ANY AND ALL REQUIRED TEMPORARY SUPPORT, SHORING, BRACING AND / OR NEEDLING TO STABILIZE AND SUPPORT EXISTING BUILDING FRAMING FOR FLOORS, CEILINGS AND WALLS CONCERNING THE WORK DESCRIBED IN THE CONTRACT DOCUMENTS.
7. PRIOR TO THE REMOVAL OF LIGHTING, EXIT SIGNS, SMOKE DETECTORS, FIRE STROBES, AND PARTITIONS, DISCONNECT / CAP OR TERMINATE ALL ELECTRICAL CIRCUITING AT DISTRIBUTION PANELS, TO FACILITATE WORK SHOWN ON DRAWINGS.
8. ALL EXISTING MECHANICAL, I.T. CIRCUITING AND ELECTRICAL LINES OR CIRCUITS ATTACHED TO EXISTING ASSEMBLIES AND EQUIPMENT SLATED FOR REMOVAL, SHALL BE PROTECTED, MAINTAINED AND REATTACHED OR SECURED TO NEW WORK, EXISTING ADJACENT SURFACES, OR NEW EQUIPMENT.
9. ANY HOLES CREATED IN WALLS, FLOOR, CEILING DURING THE DEMOLITION OR CONSTRUCTION OF THIS PROJECT SHALL BE PATCHED AND FINISHED MATCHING EXISTING ADJACENT ASSEMBLIES BY GENERAL CONTRACTOR.
10. NOTIFY THE ARCHITECT IF EXISTING PLUMBING LINES, DUCTWORK, AND ELECTRICAL LINES SCHEDULED FOR REMOVAL ARE REQUIRED FOR SERVICING OTHER AREAS OF THE BUILDING. DO NOT REMOVE ABOVE MENTIONED EQUIPMENT WITHOUT INSTRUCTIONS FROM THE ARCHITECT.
11. REFERENCE MECHANICAL, ELECTRICAL, PLUMBING DRAWINGS FOR ADDITIONAL DEMOLITION NOTES.
12. IN AREAS WITH EXISTING WOOD FLOORING SUBSTRATE, DAMAGED WOOD SUBSTRATE TO BE REMOVED AND 1/4" PLYWOOD IS TO BE INSTALLED THROUGHOUT.
13. IN THE AREAS WITH EXISTING CONCRETE FLOORING SUBSTRATE, ADD SELF-LEVELING CONCRETE OF ABOUT 1/4" THROUGHOUT.
14. AT THE THIRD FLOOR ABATED FLOORING AREAS, PATCH, SAND, PRIME AND A SKIM COAT FLOOR WITH SELF LEVELING CONCRETE OF 1/4".
15. PATCH ALL FLOORING SEAMS IN AREAS WHERE FLOORING MATERIAL REMAINS.
16. DEMO AREAS OF EXISTING VCT WHERE NOTED AND ALL AREAS OF VCT WHERE THE VCT IS NOT FULLY ADHERED TIGHT TO THE EXISTING SUBSTRATE.
17. FOLLOWING DEMO OF MATERIALS, REPLACE ALL AREAS OF DELAMINATED, SPONGY, EXISTING BUILDERS GRADE PLYWOOD TO STRENGTHEN AND PROVIDE A SOUND BASE TO INSTALL SPECIFIED FLOORING UPON.

AREA OF DEMOLITION WORK ONLY AS DEFINED IN CONTRACT DOCUMENTS.

AREA OF LIMITED WORK BASED ON MEPFP MODIFICATIONS AS DEFINED IN CONTRACT DOCUMENTS.

INTERIOR DEMOLITION KEY NOTES:

D1 PREP EXISTING CONCRETE FLOOR SLAB FOR PAINT. REMOVE ALL LOOSE DIRT, DEBRIS, AND OLD PAINT. SCARIFY, SCRUB EXISTING SLAB WITH DETERGENT TO REMOVE ALL OIL AND GREASE. ALLOW EXISTING SLAB TO FULLY DRY BEFORE APPLYING PRIMER / PAINT.

D2 PREP EXISTING MASONRY WALLS FOR PAINT, SCRAPE AND REMOVE ALL LOOSE OLD PAINT. REMOVE EXISTING VINYL WALL BASE AND REMAINING ADHESIVE, PREP SURFACE FOR NEW BASE FINISH AS SPECIFIED.

D3 REMOVE EXISTING PARTITION IN ITS ENTIRETY OR PORTION AS SHOWN AND DISPOSE, INCLUDING ALL DOORS, FRAMES, WINDOWS, ETC.WITHIN. PREP ADJACENT PLASTER FINISH TO RECEIVE NEW FINISH. PATCH + PREP FLOOR FOR NEW FINISHES.

3A REMOVE EXISTING MOVEABLE WALL ASSEMBLY INCLUDING ALL FRAMING, STRUCTURE, SUPPORTS, ENCLOSURES AND TRACKS. PATCH FLUSH AND SMOOTH ALL DISTURBED WALLS, FLOORS AND CEILING.

D4 REMOVE EXISTING CHAIN HUNG / THREADED ROD SUSPENDED LIGHTING FIXTURES IN THEIR ENTIRETY. REFER TO ELECTRICAL DEMOLITION PLANS FOR ADDITIONAL INFORMATION.

D5 REMOVE EXISTING BUILT-IN WOOD SHELVING / CLOSET IN ITS ENTIRETY AND DISPOSE. PREPARE ADJACENT SURFACES TO RECEIVE NEW FINISH.

D6 REMOVE EXISTING WOOD DOORS AND FRAME ASSEMBLY AND DISPOSE. MODIFY OPENING TO RECEIVE NEW DOOR AND FRAME ASSEMBLY AS SPECIFIED. PROVIDE AND INSTALL NEW LINTEL AS SHOWN ON STRUCTURAL DRAWING LINTEL SCHEDULE.

D7 REMOVE EXISTING RECESSED METAL LOCKERS IN THEIR ENTIRETY AND DISPOSE. PREP ADJACENT SURFACES FOR PARTITION INFILL.

D7A REMOVE EXISTING METAL LOCKERS IN THEIR ENTIRETY AND DISPOSE. PATCH AND REPAIR ADJACENT SURFACES AND PREPARE FOR NEW SCHEDULED FINISHES.

D8 REMOVE EXISTING FINISHES IN THEIR ENTIRETY (FLOOR, BASE, WALLS AND CEILING) AND DISPOSE. REFER TO EXISTING FINISH SCHEDULE FOR RECORD OF FINISHES.
- CARPET - TO BE REMOVED
- VCT - TO BE REMOVED
- CERAMIC TILE - TO REMAIN U.O.N.
- TERRAZZO - TO REMAIN, PREP FOR NEW FLOOR FINISH
- TILE BASE - TO REMAIN U.O.N.
- RUBBER BASE - TO BE REMOVED
- RUBBER BASE ON EXISTING WOOD - ONLY RUBBER TO BE REMOVED
- ACOUSTICAL CEILING TILE & GRID - TO BE REMOVED
- TACK BOARDS - TO BE REMOVED
- WHITEBOARDS - TO BE REMOVED
- WALL MOUNTED ITEMS - TO BE REMOVED
- WOOD BASE - TO REMAIN

D9 DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES IN THEIR ENTIRETY AND DISPOSE. REFER TO ELECTRICAL PLANS FOR ADDITIONAL INFORMATION. REMOVE EXISTING CEILING TILES, GRID & DEVICES. REFER TO ELECTRICAL PLANS FOR ADDITIONAL INFORMATION ON DISPOSAL OR REINSTALLATION OF DEVICES. SEE MECHANICAL DEMO PLANS FOR ALL OUTLETS/ PIPING TO BE REMOVED IN THEIR ENTIRETY.

D10 DISCONNECT AND REMOVE ALL ELECTRICAL AND DEVICES INCLUDING WIRE MOLD, RECEPTACLES, SWITCHES, DATA, FIRE ALARM PULL STATIONS, HORN STROBES, CLOCKS, ETC. SHALL BE BROUGHT BACK TO THE PANEL TO TERMINATE. REFER TO ELECTRICAL PLANS FOR ADDITIONAL INFORMATION. PATCH WALLS/FLOORS/CEILINGS AT REMOVAL LOCATIONS.

D11 REMOVE EXISTING PLYWOOD COVER/ AND METAL LOCKERS IN THEIR ENTIRETY AND DISPOSE. PREP ADJACENT SURFACES TO RECEIVE NEW FINISHES. FILL IN OPENING WITH METAL STUD AND ABUSE RESISTANT GYPSUM BOARD. SEE DETAILS ON SHEET A-730

D12 REMOVE EXISTING CASEWORK, SHELVES, COUNTERTOPS, AND OVERHEAD CABINETS IN THEIR ENTIRETY AND DISPOSE. DISCONNECT AND CAP PLUMBING IF SINK IS BEING REMOVED WITH COUNTERTOPS, REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

D13 REMOVE EXISTING TOILET PARTITIONS AND FIXTURES IN THEIR ENTIRETY AND CAP PLUMBING. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION. REMOVE CHASE WALL TO INSTALL NEW FIXTURES. REPLACE WALL & FINISH AS SPECIFIED. ALL FINISHES TO BE CONTIGUOUS & FLUSH.

D14 DISCONNECT AND REMOVE EXISTING MECHANICAL UNIT (RADIATOR, UNIT VENTILATOR, ETC.) IN ITS ENTIRETY. PREP WALL TO INSTALL MISSING BASE TO MATCH ADJACENT TRIM. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION. PATCH WALLS/FLOORS/CEILINGS AT REMOVAL LOCATIONS. PATCH ALL SURFACES & PREPARE FOR NEW SCHEDULED FINISHES. ALL MECHANICAL WORK, INCLUDING GANG TOILET ROOMS ARE BASE BID. SEE DETAIL 5/A-730 FOR REPAIR DETAILS

D15 REMOVE PORTION OF EXISTING WALL FOR INSTALLATION OF NEW DOOR. REFER TO PLANS AND DOOR SCHEDULE FOR ADDITIONAL INFORMATION.

D16 REMOVE EXISTING DOOR, SIDELITES,TRANSOM, STOREFRONT SYSTEM AND FRAME IN ITS ENTIRETY AND DISPOSE. PREP ADJACENT SURFACES TO RECEIVE NEW FINISH.

D17 REMOVE EXISTING DOOR AND HARDWARE AND DISPOSE, PREP/MODIFY FRAME TO RECEIVE NEW DOOR AND NEW HARDWARE. REFER TO DOOR HARDWARE SPECIFICATIONS.

D18 NOT USED

D19 DISCONNECT AND REMOVE EXISTING MECHANICAL UNIT IN ITS ENTIRETY. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION. ALL SURFACES TO BE SMOOTH & FINISHES CONTIGUOUS. NEW FINISH AS SCHEDULED.

D20 PREP FOR INSTALLATION OF NEW ROLLER SHADES PER FINISH SCHEDULE. PREP FOR INSTALLATION OF NEW INSECT SCREENS AT ALL OPERABLE WINDOWS

D21 REMOVE RAILING AND ALL ASSOCIATED HARDWARE AND DISPOSE.

D22 NOT USED.

D23 REMOVE EXISTING KITCHEN APPLIANCES IN THEIR ENTIRETY. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION.

D24 EXISTING SECURITY PANEL AND CONDUIT TO BE REMOVED. REFER TO ELECTRICAL DRAWINGS. PATCH CMU WALL AS REQUIRED.

D25 REMOVE EXISTING FIRE HOSE CABINET IN ITS ENTIRETY. PATCH WALL AS REQUIRED, ALIGN WITH AND MATCH ADJACENT FINISHES.

D26 REMOVE AND REPLACE FLOOR DRAIN. REMOVE ALL FLOOR TILE. PREPARE FLOOR WITH SELF LEVELING PATCH.

D27 REMOVE EXISTING DRINKING FOUNTAIN AND CONCRETE PLATFORM. GRIND SMOOTH SLAB FOR NEW FLOORING FINISH TO ALIGN WITH ADJACENT FLOOR SURFACE. PATCH WALL TO ALIGN WITH AND MATCH ADJACENT FINISHES.

D28 REMOVE EXISTING WINDOW ASSEMBLY. PREPARE FOR NEW G.B. INFILL TO ALIGN WITH EXISTING WALLS. ALL SURFACES TO BE FLUSH AND CONTIGUOUS.

D29 EXISTING ORIGINAL PLASTER CEILING TO REMAIN ABOVE EXISTING ACT. REPAIR AND PATCH AS NECESSARY AT NEW MEP PENETRATIONS.

D30 REMOVE EXISTING ORIGINAL PLASTER CEILING, LOCATED ABOVE EXISTING ACT, IN ITS ENTIRETY AND DISPOSE. REFER TO DETAIL 6/A-730.

D31 THESE PARTITIONS, DOORS FRAMES, RAILING, TRIM, STAIR COMPONENTS, BASEBOARDS, ARCHWAYS & WINDOWS, SILLS AND FRAMES CONTAIN LEAD-BASED PAINT. IF DEMOLITION OF SAME IS INDICATED ON PLANS, IT SHALL BE PERFORMED IN STRICT ACCORDANCE WITH SPECIFICATIONS FOR LEAD-BASED PAINT REMOVAL / DISPOSAL. (REFER TO SEPTEMBER 2022 REPORT)
NOTE: PLAN CALLOUTS THE LEAD BASED LOCATIONS FOR REFERENCE; HOWEVER, THE REPORT SHALL GOVERN IN THE EVENT OF ANY DISCREPANCY.

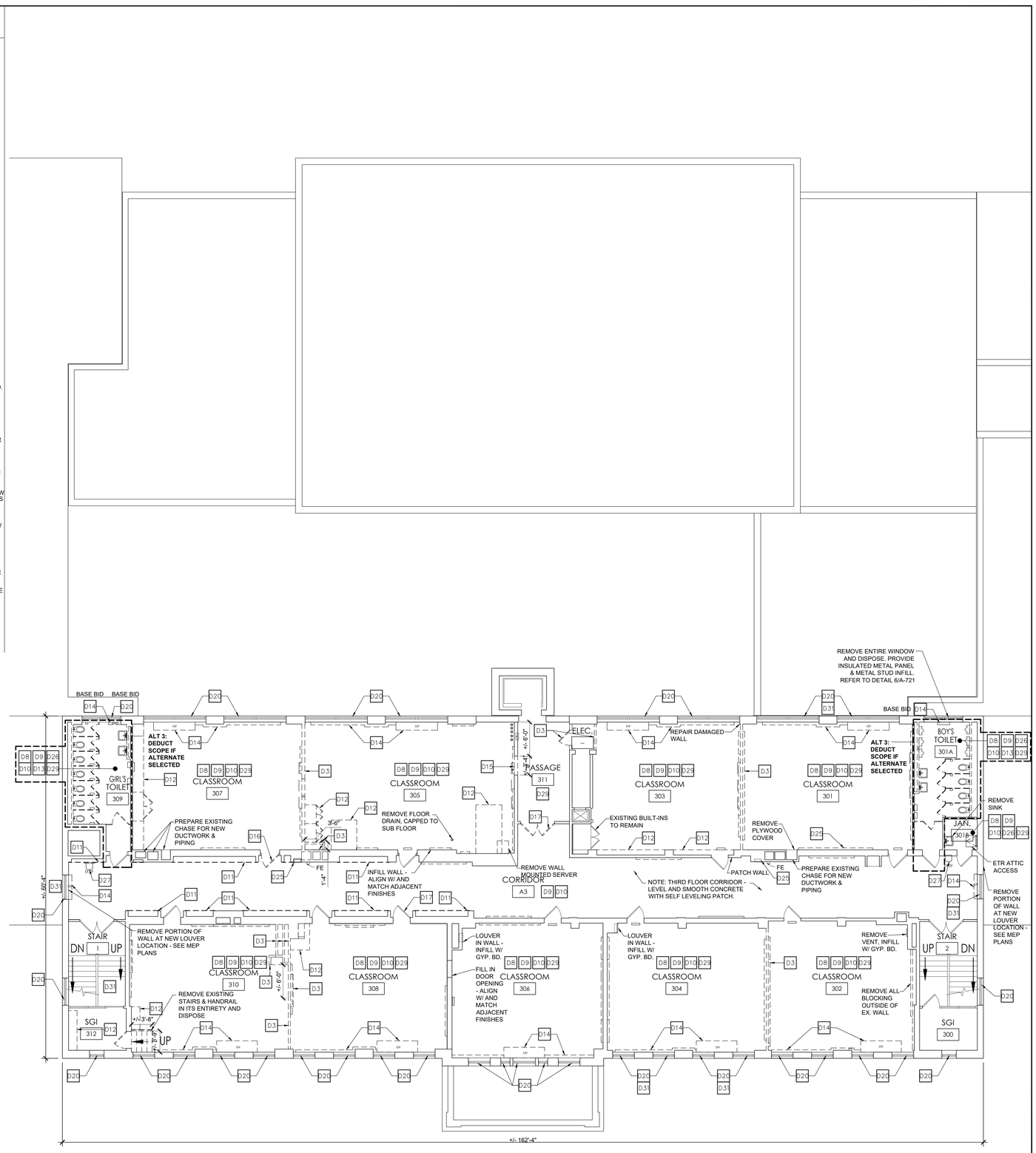
D32 REMOVE AND DISPOSE OF ALL EXISTING TOILET ROOM ACCESSORIES. CLEAN AND PREPARE ALL SURFACES TO RECEIVE NEW EQUIPMENT OR FINISHES AS INDICATED

EXISTING ROOM FINISHES

THIRD FLOOR

ROOM NUMBER	ROOM NAME	FLOORING	BASE	WALLS	CEILING	NOTES
A3	CORRIDOR	BARE CONCRETE	-	PAINT	ACT	
300	SGI	TERRAZZO	TERRAZZO	PAINT	PLASTER	
301A	BOYS TOILET	CERAMIC TILE	CERAMIC TILE	PAINT	ACT	ALTERNATE #3
301B	JAN. CLOSET	PAINTED CONCRETE	PAINTED CONCRETE	PAINT	PLASTER	
301	CLASSROOM	VCT	RUBBER OVER WOOD	PAINT	ACT	
302	CLASSROOM	VCT	RUBBER/ WOOD	PAINT	ACT	
303	CLASSROOM	VCT	RUBBER/ WOOD	PAINT	ACT	
304	CLASSROOM	VCT	RUBBER/ WOOD	PAINT	ACT	
305	CLASSROOM	VCT	RUBBER	PAINT	ACT	
306	CLASSROOM	VCT	RUBBER/ WOOD	PAINT	ACT	
307	CLASSROOM	VCT	RUBBER OVER WOOD	PAINT	ACT	
308	CLASSROOM	VCT	RUBBER OVER WOOD	PAINT	ACT	
309	GIRLS TOILET	TERRAZZO	TERRAZZO/ C. TILE	PAINT	ACT	ALTERNATE #3
310	CLASSROOM	VCT	RUBBER OVER WOOD	PAINT	ACT	
311	PASSAGE	VCT	RUBBER	PAINT	ACT	
312	SGI	TERRAZZO	TERRAZZO	PAINT	PLASTER	
--	STAIR 1	METAL TREADS/ PAINTED CONCRETE LANDINGS	PAINTED STRINGER	PAINT	PLASTER	
--	STAIR 2	METAL TREADS/ PAINTED CONCRETE LANDINGS	PAINTED STRINGER	PAINT	PLASTER	

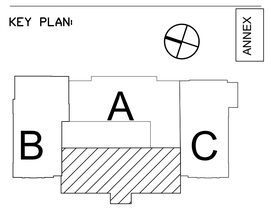
NOTE: EXISTING PLASTER ON METAL LATHE CELING ABOVE ACT TO REMAIN ON ENTIRE THIRD FLOOR



THIRD FLOOR DEMOLITION PLAN

1 SCALE: 1/8" = 1'-0"

KEY PLAN:



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	12/08/25	OUT TO BID
	12/03/25	DCA Submission

Revisions / Issues

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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date: 04/09/2025
Drawn By: TC
Checked By: KG

Sheet Name:
THIRD FLOOR DEMOLITION PLAN

Sheet No:
D-103
Sheet 0 of 000

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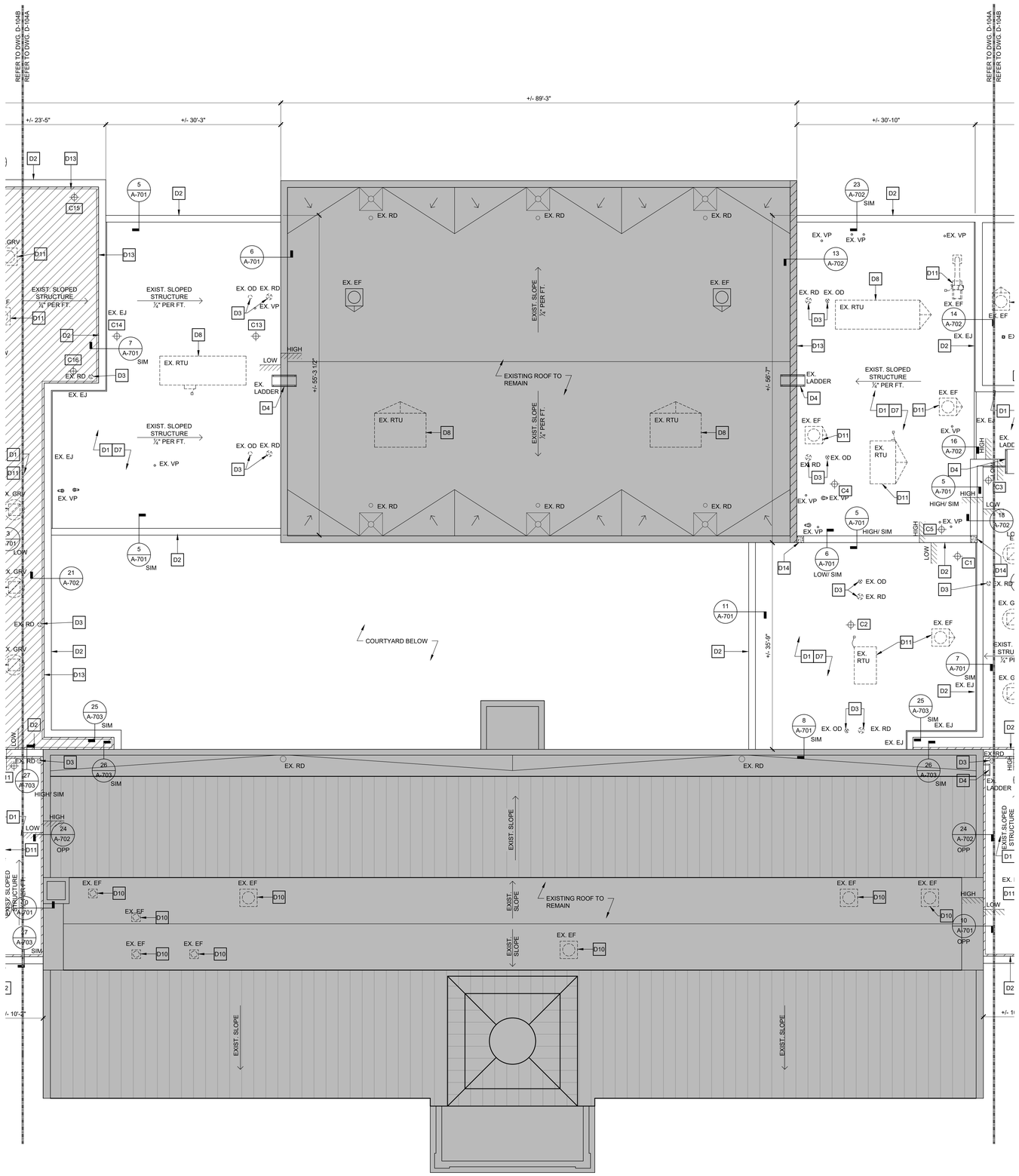


1 ROOF DEMOLITION PLAN AREAS 'C', 'E', 'H'

SCALE: 1/8" = 1'-0"

D5

ROOF AREA 'A'
+/- 1,451 SF OF EXISTING BUILT UP ROOFING
ROOF AREA 'B'
+/- 1,422 SF OF EXISTING BUILT UP ROOFING
ROOF AREA 'C'
+/- 1,827 SF OF EXISTING BUILT UP ROOFING
ROOF AREA 'D'
+/- 352 SF OF EXISTING BUILT UP ROOFING
ROOF AREA 'E'
+/- 1,800 SF OF EXISTING BUILT UP ROOFING
ROOF AREA 'F'
+/- 1,814 SF OF EXISTING BUILT UP ROOFING
ROOF AREA 'G'
+/- 406 SF OF EXISTING BUILT UP ROOFING
ROOF AREA 'H'
+/- 1,331 SF OF EXISTING BUILT UP ROOFING
ROOF AREA I'
+/- 539 SF OF EXISTING BUILT UP ROOFING
ROOF AREA 'J'
+/- 359 SF OF EXISTING BUILT UP ROOFING
TOTAL ROOF AREA SF
+/- 11,300 SF OF EXISTING BUILT UP ROOFING

LEGEND

CU	CONDENSING UNIT
CX	CORE NUMBER
EF	EXHAUST FAN
EV	EXHAUST VENT
RD	ROOF DRAIN
RH	ROOF HATCH
RTU	ROOF TOP UNIT
PP	PITCH POCKET
SV	SMOKE VENT
VP	VENT PIPE
	EXISTING ROOF TO REMAIN (N.I.C.)
	SEE HAZARDOUS MATERIAL SURVEY. REFER TO KEY NOTE D13 FOR MORE INFORMATION

ROOF CORE SAMPLES		
SAMPLE NUMBER		LAYERS
C1 (FIELD)	THICKNESS: 8 1/2"	METAL DECK
		POLY ISO INSULATION
		PERLITE BOARD
		BUILT UP ROOF
C2 (FIELD)	THICKNESS: 4"	METAL DECK
		POLY ISO INSULATION
		PERLITE BOARD
		BUILT UP ROOF
C3 (FIELD)	THICKNESS: 3"	SLOPED CONCRETE DECK
		BUILT UP ROOF
C4 (FIELD)	THICKNESS: 3 1/2"	SLOPED METAL DECK
		POLY ISO INSULATION
		BUILT UP ROOF
C5 (FIELD)	THICKNESS: 4"	SLOPED METAL DECK
		POLY ISO INSULATION
		BUILT UP ROOF
C6 C7 (FIELD)	THICKNESS: 1/2"	SLOPED LIGHT WT. CONC. DECK
		BUILT UP ROOF
C8 (FIELD)	THICKNESS: 3 1/2"	SLOPED CONCRETE DECK
		BUILT UP ROOF
C9 C10 (FIELD)	THICKNESS: 1"	SLOPED LIGHT WT. CONC. DECK
		BUILT UP ROOF
C11 (FIELD)	THICKNESS: 1"	SLOPED CONCRETE DECK
		WOOD FIBER BOARD
		BUILT UP ROOF
C12 (FIELD)	THICKNESS: 1 1/2"	SLOPED CONCRETE DECK
		WOOD FIBER BOARD
		BUILT UP ROOF
C13 (FIELD)	THICKNESS: 5 1/4"	SLOPED METAL DECK
		WOOD FIBER BOARD
		POLY ISO INSULATION
		BUILT UP ROOF
C14 (FIELD)	THICKNESS: 4 1/2"	SLOPED METAL DECK
		WOOD FIBER BOARD
		POLY ISO INSULATION
		BUILT UP ROOF
C15 C16 (FIELD)	THICKNESS: 1/2"	SLOPED CONCRETE DECK
		BUILT UP ROOF

EXISTING ROOF NOTES

REFER TO MECHANICAL ROOF DEMOLITION PLANS, SHEETS MD-104A/B, FOR THE EXTENT OF MECHANICAL EQUIPMENT BEING REMOVED.

ANY MATERIAL STORED OR STAGED ON THE ROOF SURFACE MUST BE DISTRIBUTED SO THAT EXCESSIVE LOADS (EXCEEDING 500 LBS) ARE NOT STORED IN ANY ONE LOCATION.

EXTERIOR DEMOLITION NOTES

D1 SCRAPE AND CUT TO REMOVE AND DISCARD ALL EXISTING BUILT UP ROOF ROOF SYSTEM, INCLUDING RIGID INSULATION, VAPOR BARRIER, ASPHALT AND MASTIC TO COMPLETELY EXPOSE EXISTING DECK SUBSTRATE. REMOVE AND DISCARD ALL PROJECTING FASTENING DEVICES AND ACCUMULATED ROOF ASPHALT AND/OR MASTIC TO PROVIDE A SMOOTH ROOF SURFACE FOR THE INSTALLATION OF NEW ROOF ASSEMBLY. SEE ALL ROOFING DETAILS FOR BLOCKING AND CANTS TO BE REMOVED. REMOVALS ARE TO BE PERFORMED BY HAND, WITH HAND TOOLS IN ORDER TO MINIMIZE DAMAGE OF THE EXISTING ROOF DECK. HAMMERING AND CHOPPING WILL NOT BE PERMITTED.

D2 CUT TO REMOVE AND DISCARD ALL PERIMETER, CONTINUOUS METAL ROOF EDGE TRIM, BASE / CAP / WALL FLASHING AND ALL FASTENING DEVICES COMPLETELY ELIMINATING ALL PROJECTIONS FROM ROOF SUBSTRATE.

D3 REMOVE EXISTING ROOF AND OVERFLOW DRAINS, DOMES AND FITTINGS. INSTALL NEW ROOF DRAIN UNITS WITH ALL REQUIRED FITTINGS, SUMPS AND COLLARS, AS SPECIFIED. CONTRACTOR SHALL DETERMINE EXACT SIZE AND LOCATION OF ALL EXISTING DRAINS AND LEADERS. EXTEND LEADER WITH MATCHING PIPE AS REQUIRED TO PERMIT ¼" PER FOOT SLOPE IN NEW SUMP. CONTRACTOR SHALL CLEAN OUT ALL EXISTING LEADERS BELOW FLOOR LEVEL (SIMILAR TO "ROTO-ROOTER" METHOD). UPON COMPLETION OF ALL ROOFING AND DRAIN WORK THE CONTRACTOR SHALL PROVIDE A HOSE TEST AROUND EACH ROOF DRAIN FOR LEAKS, IN THE PRESENCE OF THE OWNER AND ARCHITECT. PRIOR TO INSTALLATION OF INTERIOR CEILINGS, WALLS, OR ANY OTHER NEW COMPONENTS THAT WILL OBSCURE WATER TEST. REFER TO DETAIL.

D4 EXISTING ROOF LADDER TO REMAIN AND BE PROTECTED.

D5 CUT TO REMOVE AND DISCARD ALL VENT PIPE FLASHING (VP) AROUND PIPING. PREPARE SUBSTRATE TO FACILITATE INSTALLATION OF NEW ROOF ASSEMBLY AND FLASHINGS.

D6 REMOVE EXISTING SCUPPER BOX AND LEADER IN ITS ENTIRETY AND DISPOSE.

D7 EXISTING ROOF WALKING PADS TO BE REMOVED AND DISPOSED.

D8 DISCONNECT AND REMOVE EXISTING MECHANICAL UNITS, EXHAUST FAN, CONDENSING UNIT, ETC. CURBS ARE TO REMAIN. REMOVE AND DISCARD BASE FLASHING, ALL FASTENING DEVICES. RECONNECT EXISTING DUCTWORK AND ELECTRICAL CIRCUITING IF APPLICABLE. REINSTALL ALL EQUIPMENT ONCE ROOF, BASE & COUNTER FLASHING WORK IS COMPLETE.

D9 DISCONNECT AND REMOVE EXISTING SIDEWALL EXHAUST FAN AND DISPOSE. PROVIDE AN INSULATED ANODIZED METAL PANEL AND CONTINUOUS SEALANT AT PERIMETER OF OPENING. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

D10 DISCONNECT AND REMOVE EXISTING EXHAUST FAN IN ITS ENTIRETY AND DISPOSE. EXISTING CURB TO REMAIN. CAP EXISTING CURB. REFER TO DETAIL 1/A-720.

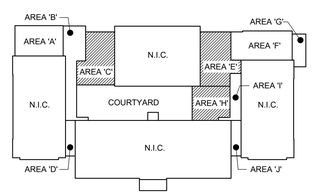
D11 DISCONNECT AND REMOVE EXISTING ROOF TOP MECHANICAL EQUIPMENT AND CURBS IN THEIR ENTIRETY AND DISPOSE. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

D12 REMOVE EXISTING DUCTWORK AND DISPOSE. PREPARE EXISTING OPENING TO RECEIVE NEW DUCTWORK CONNECTION. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

D13 SEE HAZARDOUS MATERIAL SURVEY DATED SEPTEMBER 2022 AND ABATEMENT SPECIFICATIONS FOR REMOVAL AND DISPOSAL OF EXISTING ASBESTOS CONTAINING MATERIAL (ACM), (SEALANTS, TAR, MASTIC, TAR FELT, TAR PAPER ETC.)

D14 AREA OF EXISTING STONE COPING REPAIR - APPROX. 5 SF. RESET EXISTING COPING STONES AND RESEAL AS NEEDED. SEE EXTERIOR ASSESSMENT REPORT DATED 27 JANUARY 2025 FOR ADDITIONAL INFORMATION.

D15 CAREFULLY DISCONNECT AND TEMPORARY REMOVE EXISTING MECHANICAL UNITS, EXHAUST FAN, CONDENSING UNIT, ETC. CURBS ARE TO REMAIN. REMOVE AND DISCARD BASE FLASHING, ALL FASTENING DEVICES. RECONNECT EXISTING DUCTWORK AND ELECTRICAL CIRCUITING IF APPLICABLE. REINSTALL ALL EQUIPMENT ONCE ROOF, BASE & COUNTER FLASHING WORK IS COMPLETE.



2 ROOF KEY PLAN

SCALE: NTS

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	12/03/25	DCA Submission

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Client:
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201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date: 04/09/2025
Drawn By: TC
Checked By: DV

Sheet Name:
ROOF DEMOLITION PLAN AREAS 'C', 'E', 'H'

Sheet No:
D-104A
Sheet 0 of 000

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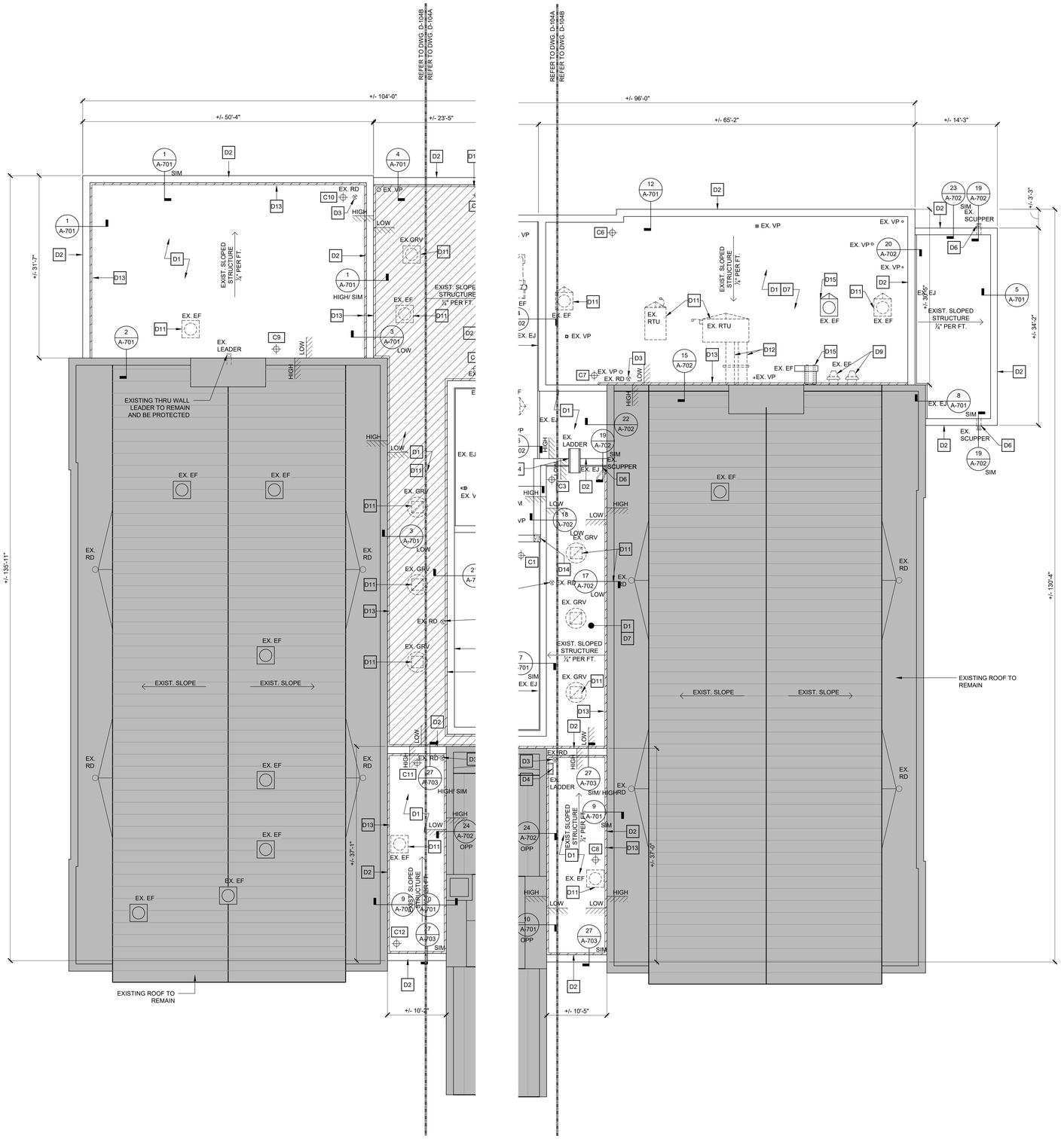

1 ROOF DEMOLITION PLAN AREAS 'A', 'B', 'D', 'F', 'G', 'I', 'J'

SCALE: 1/8" = 1'-0"

D5

ROOF AREA 'A'
+/- 1,451 SF OF EXISTING BUILT UP ROOFING
ROOF AREA 'B'
+/- 1,422 SF OF EXISTING BUILT UP ROOFING
ROOF AREA 'C'
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ROOF AREA 'D'
+/- 352 SF OF EXISTING BUILT UP ROOFING
ROOF AREA 'E'
+/- 1,800 SF OF EXISTING BUILT UP ROOFING
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+/- 539 SF OF EXISTING BUILT UP ROOFING
ROOF AREA 'J'
+/- 359 SF OF EXISTING BUILT UP ROOFING
TOTAL ROOF AREA SF
+/- 11,300 SF OF EXISTING BUILT UP ROOFING

LEGEND

CU	CONDENSING UNIT
CX	CORE NUMBER
EF	EXHAUST FAN
EV	EXHAUST VENT
RD	ROOF DRAIN
RH	ROOF HATCH
RTU	ROOF TOP UNIT
PP	PITCH POCKET
SV	SMOKE VENT
VP	VENT PIPE
	EXISTING ROOF TO REMAIN (N.I.C.)
	SEE HAZARDOUS MATERIAL SURVEY. REFER TO KEY NOTE D13 FOR MORE INFORMATION

ROOF CORE SAMPLES

SAMPLE NUMBER		LAYERS
C1 (FIELD)	THICKNESS: 8 1/2"	METAL DECK
		POLY ISO INSULATION
		PERLITE BOARD
		BUILT UP ROOF
C2 (FIELD)	THICKNESS: 4"	METAL DECK
		POLY ISO INSULATION
		PERLITE BOARD
		BUILT UP ROOF
C3 (FIELD)	THICKNESS: 3"	SLOPED CONCRETE DECK
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C9 C10 (FIELD)	THICKNESS: 1"	SLOPED LIGHT WT. CONC. DECK
		BUILT UP ROOF
C11 (FIELD)	THICKNESS: 1"	SLOPED CONCRETE DECK
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C12 (FIELD)	THICKNESS: 1 1/2"	SLOPED CONCRETE DECK
		WOOD FIBER BOARD
		BUILT UP ROOF
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		BUILT UP ROOF
C14 (FIELD)	THICKNESS: 4 1/2"	SLOPED METAL DECK
		WOOD FIBER BOARD
		POLY ISO INSULATION
		BUILT UP ROOF
C15 C16 (FIELD)	THICKNESS: 1/2"	SLOPED CONCRETE DECK
		BUILT UP ROOF

EXISTING ROOF NOTES

REFER TO MECHANICAL ROOF DEMOLITION PLANS, SHEETS MD-104A/B, FOR THE EXTENT OF MECHANICAL EQUIPMENT BEING REMOVED.

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ROOF DEMOLITION NOTES

D1 SCRAPE AND CUT TO REMOVE AND DISCARD ALL EXISTING BUILT UP ROOF ROOF SYSTEM, INCLUDING RIGID INSULATION, VAPOR BARRIER, ASPHALT AND MASTIC TO COMPLETELY EXPOSE EXISTING DECK SUBSTRATE. REMOVE AND DISCARD ALL PROJECTING FASTENING DEVICES AND ACCUMULATED ROOF ASPHALT AND/OR MASTIC TO PROVIDE A SMOOTH ROOF SURFACE FOR THE INSTALLATION OF NEW ROOF ASSEMBLY. SEE ALL ROOFING DETAILS FOR BLOCKING AND CANTS TO BE REMOVED. REMOVALS ARE TO BE PERFORMED BY HAND, WITH HAND TOOLS IN ORDER TO MINIMIZE DAMAGE OF THE EXISTING ROOF DECK. HAMMERING AND CHOPPING WILL NOT BE PERMITTED.

D2 CUT TO REMOVE AND DISCARD ALL PERIMETER, CONTINUOUS METAL ROOF EDGE TRIM, BASE / CAP / WALL FLASHING AND ALL FASTENING DEVICES COMPLETELY ELIMINATING ALL PROJECTIONS FROM ROOF SUBSTRATE.

D3 REMOVE EXISTING ROOF AND OVERFLOW DRAINS, DOMES AND FITTINGS. INSTALL NEW ROOF DRAIN UNITS WITH ALL REQUIRED FITTINGS, SUMPS AND COLLARS, AS SPECIFIED. CONTRACTOR SHALL DETERMINE EXACT SIZE AND LOCATION OF ALL EXISTING DRAINS AND LEADERS. EXTEND LEADER WITH MATCHING PIPE AS REQUIRED TO PERMIT ¼" PER FOOT SLOPE IN NEW SUMP. CONTRACTOR SHALL CLEAN OUT ALL EXISTING LEADERS BELOW FLOOR LEVEL (SIMILAR TO "ROTO-ROOTER" METHOD). UPON COMPLETION OF ALL ROOFING AND DRAIN WORK THE CONTRACTOR SHALL PROVIDE A HOSE TEST AROUND EACH ROOF DRAIN FOR LEAKS, IN THE PRESENCE OF THE OWNER AND ARCHITECT. PRIOR TO INSTALLATION OF INTERIOR CEILINGS, WALLS, OR ANY OTHER NEW COMPONENTS THAT WILL OBSCURE WATER TEST. REFER TO DETAIL.

D4 EXISTING ROOF LADDER TO REMAIN AND BE PROTECTED.

D5 CUT TO REMOVE AND DISCARD ALL VENT PIPE FLASHING (VP) AROUND PIPING. PREPARE SUBSTRATE TO FACILITATE INSTALLATION OF NEW ROOF ASSEMBLY AND FLASHINGS.

D6 REMOVE EXISTING SCUPPER BOX AND LEADER IN ITS ENTIRETY AND DISPOSE.

D7 EXISTING ROOF WALKING PADS TO BE REMOVED AND DISPOSED.

D8 DISCONNECT AND REMOVE EXISTING MECHANICAL UNITS, EXHAUST FAN, CONDENSING UNIT, ETC. CURBS ARE TO REMAIN. REMOVE AND DISCARD BASE FLASHING, ALL FASTENING DEVICES. RECONNECT EXISTING DUCTWORK AND ELECTRICAL CIRCUITING IF APPLICABLE. REINSTALL ALL EQUIPMENT ONCE ROOF, BASE & COUNTER FLASHING WORK IS COMPLETE.

D9 DISCONNECT AND REMOVE EXISTING SIDEWALL EXHAUST FAN AND DISPOSE. PROVIDE AN INSULATED ANODIZED METAL PANEL AND CONTINUOUS SEALANT AT PERIMETER OPENING. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

D10 DISCONNECT AND REMOVE EXISTING EXHAUST FAN IN ITS ENTIRETY AND DISPOSE. EXISTING CURB TO REMAIN. CAP EXISTING CURB. REFER TO DETAIL 1/A-720.

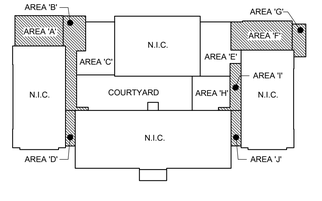
D11 DISCONNECT AND REMOVE EXISTING ROOF TOP MECHANICAL EQUIPMENT AND CURBS IN THEIR ENTIRETY AND DISPOSE. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

D12 REMOVE EXISTING DUCTWORK AND DISPOSE. PREPARE EXISTING TO RECEIVE NEW DUCTWORK CONNECTION. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

D13 SEE HAZARDOUS MATERIAL SURVEY DATED SEPTEMBER 2022 AND ABATEMENT SPECIFICATIONS FOR REMOVAL AND DISPOSAL OF EXISTING ASBESTOS CONTAINING MATERIAL (ACM), (SEALANTS, TAR, MASTIC, TAR FELT, TAR PAPER ETC.)

D14 AREA OF EXISTING STONE COPING REPAIR - APPROX. 5 SF. RESET EXISTING COPING STONES AND RESEAL AS NEEDED. SEE EXTERIOR ASSESSMENT REPORT DATED 27 JANUARY 2025 FOR ADDITIONAL INFORMATION.

D15 CAREFULLY DISCONNECT AND TEMPORARY REMOVE EXISTING MECHANICAL UNITS, EXHAUST FAN, CONDENSING UNIT, ETC. CURBS ARE TO REMAIN. REMOVE AND DISCARD BASE FLASHING, ALL FASTENING DEVICES. RECONNECT EXISTING DUCTWORK AND ELECTRICAL CIRCUITING IF APPLICABLE. REINSTALL ALL EQUIPMENT ONCE ROOF, BASE & COUNTER FLASHING WORK IS COMPLETE.



2 ROOF KEY PLAN

SCALE: NTS

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NJ RA AI 15023, NY RA 027416, PA RA 405474

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Client:
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201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date: 04/09/2025
Drawn By: TC
Checked By: DV

Sheet Name:
ROOF DEMOLITION PLAN
AREAS 'A', 'B', 'D', 'F', 'G', 'I', 'J'

Sheet No:
D-104B
Sheet 0 of 000

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FLOOR PLAN NOTES

1. EXHAUST CHASE & PIPING CHASE REPAIR, FILL IN OPENINGS W/ 2 1/2" METAL STUDS & 5/8" GYPSUM BOARD. REFER TO MEPFP DRAWINGS. ALIGN W/ AND MATCH ADJACENT FINISHES.
2. PROVIDE AND INSTALL NEW WINDOW INSECT SCREENS. REFER TO DETAILS ON SHEET A-002.
3. NEW PIPE AND/OR MECHANICAL CHASE W/ 2 1/2" METAL STUDS & PAINTED 5/8" GYPSUM BOARD - REFER TO DETAILS ON SHEET A-702.
4. NEW ENLARGED OPENING/LINTEL - REFER TO LINTEL SCHEDULE ON SHEET S-102.
5. ALL MONITOR LOCATIONS TO HAVE PLYWOOD BLOCKING SUBSTRATE.
6. INFILL VOID AT REMOVED DOOR/WINDOW WITH BATT INSULATION.
7. EXISTING WALL TO BE SKIM COATED AND PREPPED TO RECEIVE A LEVEL 4 PAINTED FINISH. ALL PATCHING AN REPAIRS ARE TO BE FEATHERED AND BLENDED TO ACHIEVE A SEAMLESS, UNIFORM APPEARANCE ACROSS THE ENTIRE SURFACE.

FLOOR PLAN LEGEND

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- C.W. — WIRELESS CARD READER
- FIRE EXTINGUISHER BY GC - REFER TO PLANS
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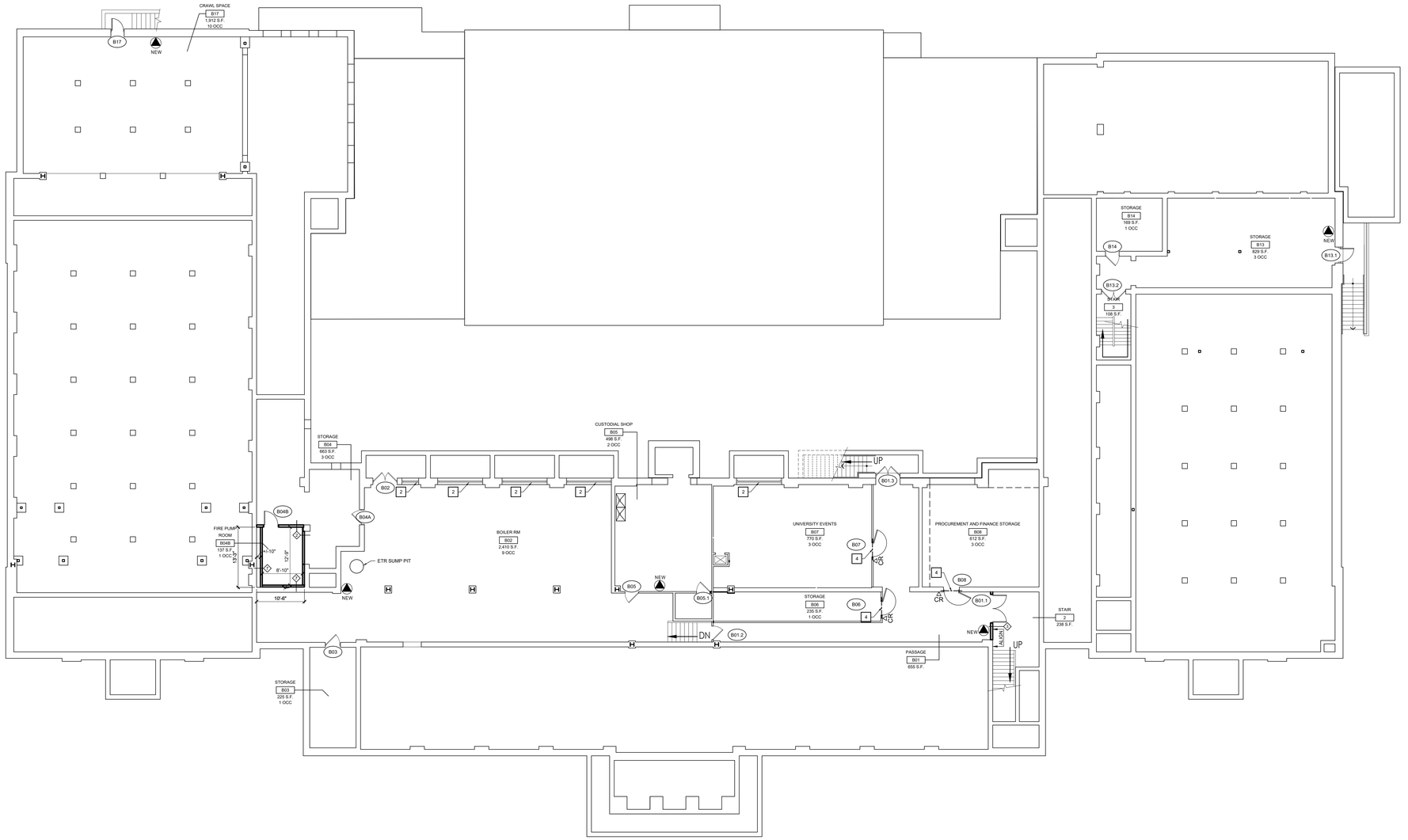
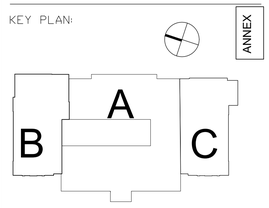
- T — THERMOSTAT - REFER TO ELECTRICAL PLANS
- NEW MILLWORK BY G.C.



1 BASEMENT PLAN

SCALE: 3/32" = 1'-0"

KEY PLAN:



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Drawing Information:
Project No: 25.024
Date: 04/09/2025
Drawn By: TC
Checked By: KG

Sheet Name:
BASEMENT FLOOR PLAN

Sheet No:
A-100
Sheet 0 of 000

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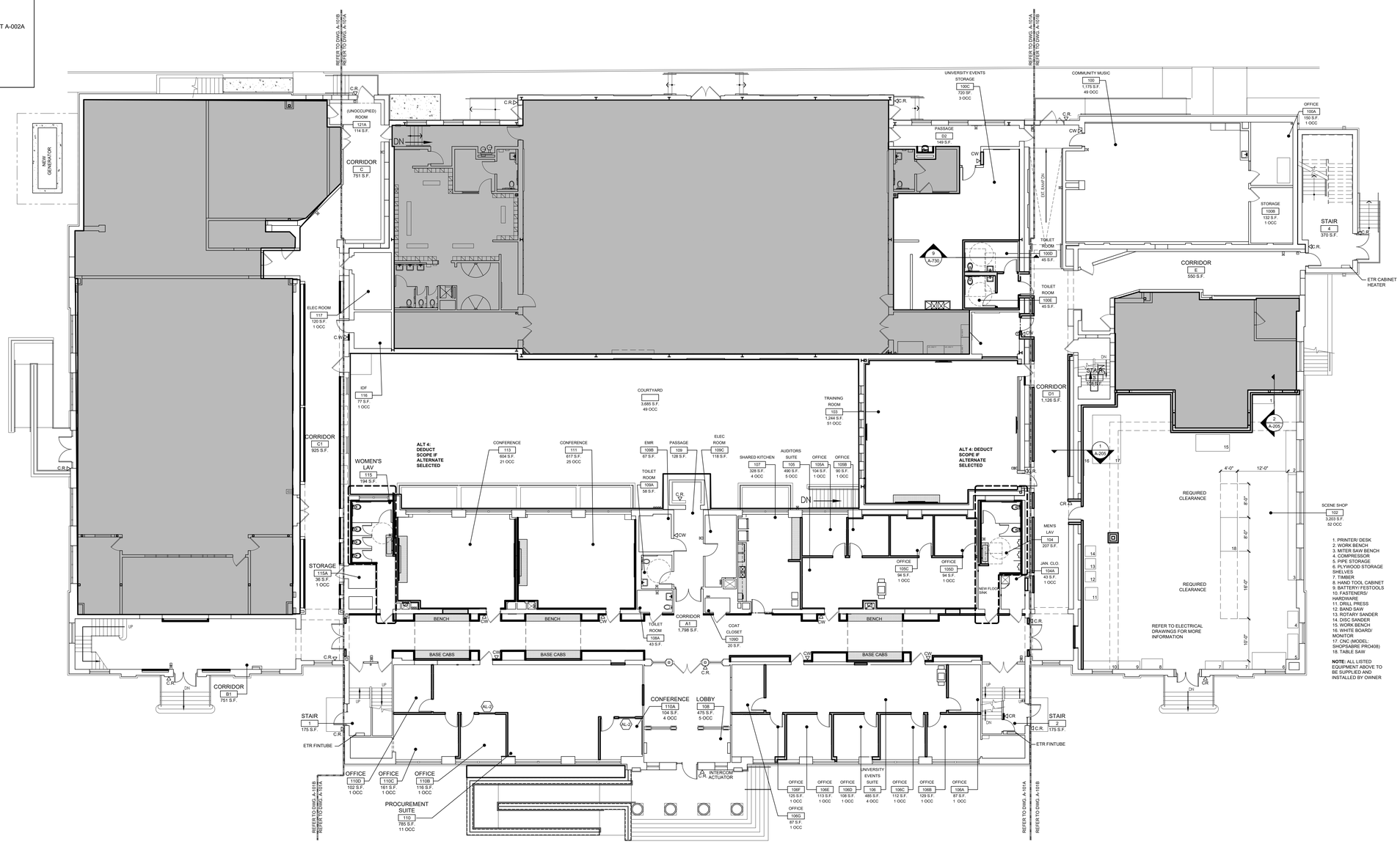
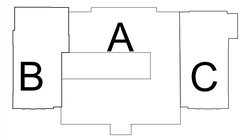


1 FIRST FLOOR KEY PLAN

SCALE: 3/32" = 1'-0"

KEY PLAN:



ANNEX

No.	Date	Description
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Drawing Information:
Project No: 25.024
Date: 04/09/2025
Drawn By: TC
Checked By: KG

Sheet Name:
FIRST FLOOR PLAN

Sheet No:
A-101
Sheet 0 of 000

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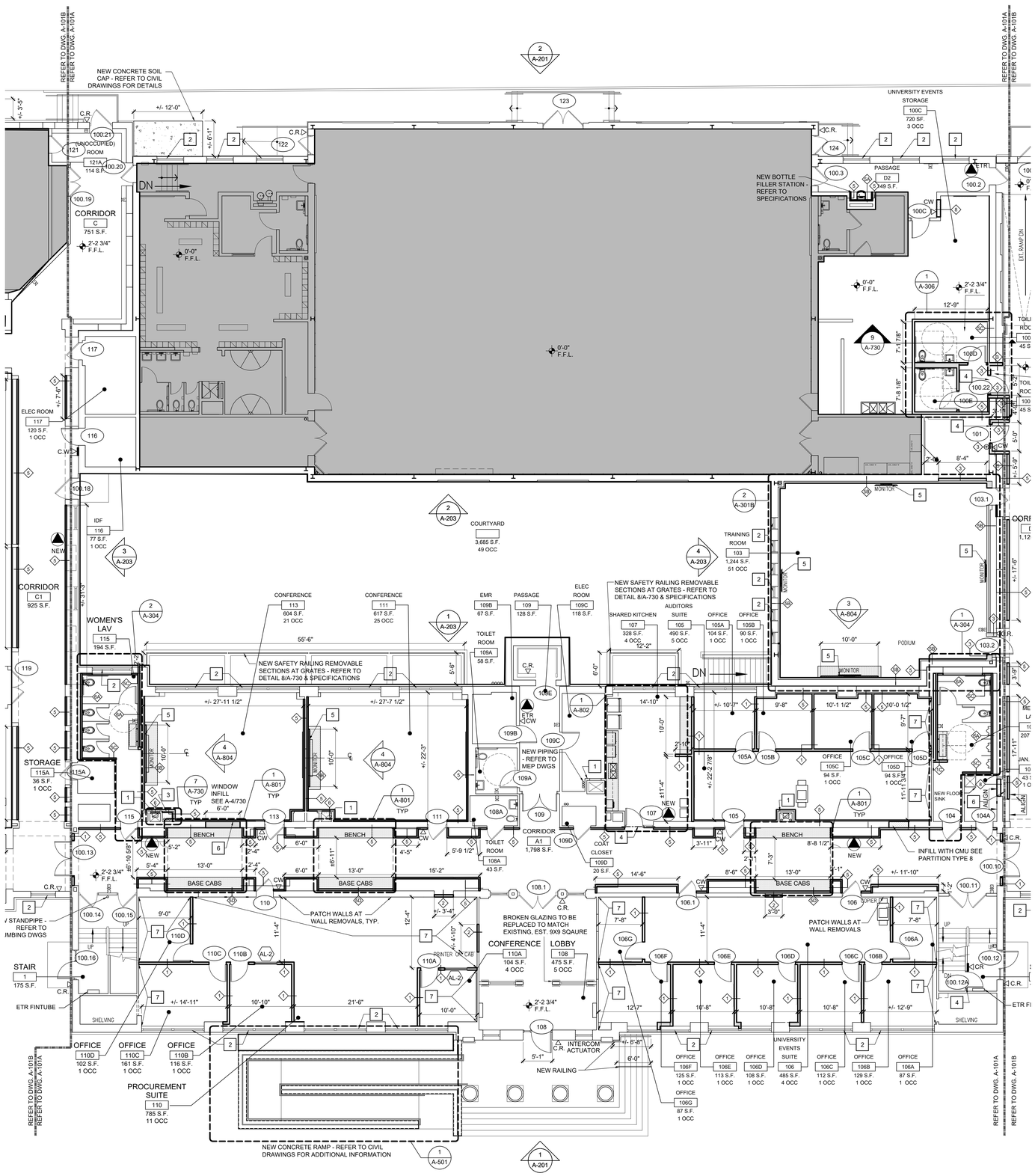

PARTIAL FIRST FLOOR PLAN AREA 'A'

1 SCALE: 1/8" = 1'-0"

KEY PLAN:

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Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date: 04/09/2025
Drawn By: TC
Checked By: KG

Sheet Name:
PARTIAL FIRST FLOOR PLAN AREA 'A'

Sheet No:
A-101A
Sheet 0 of 000

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FLOOR PLAN NOTES

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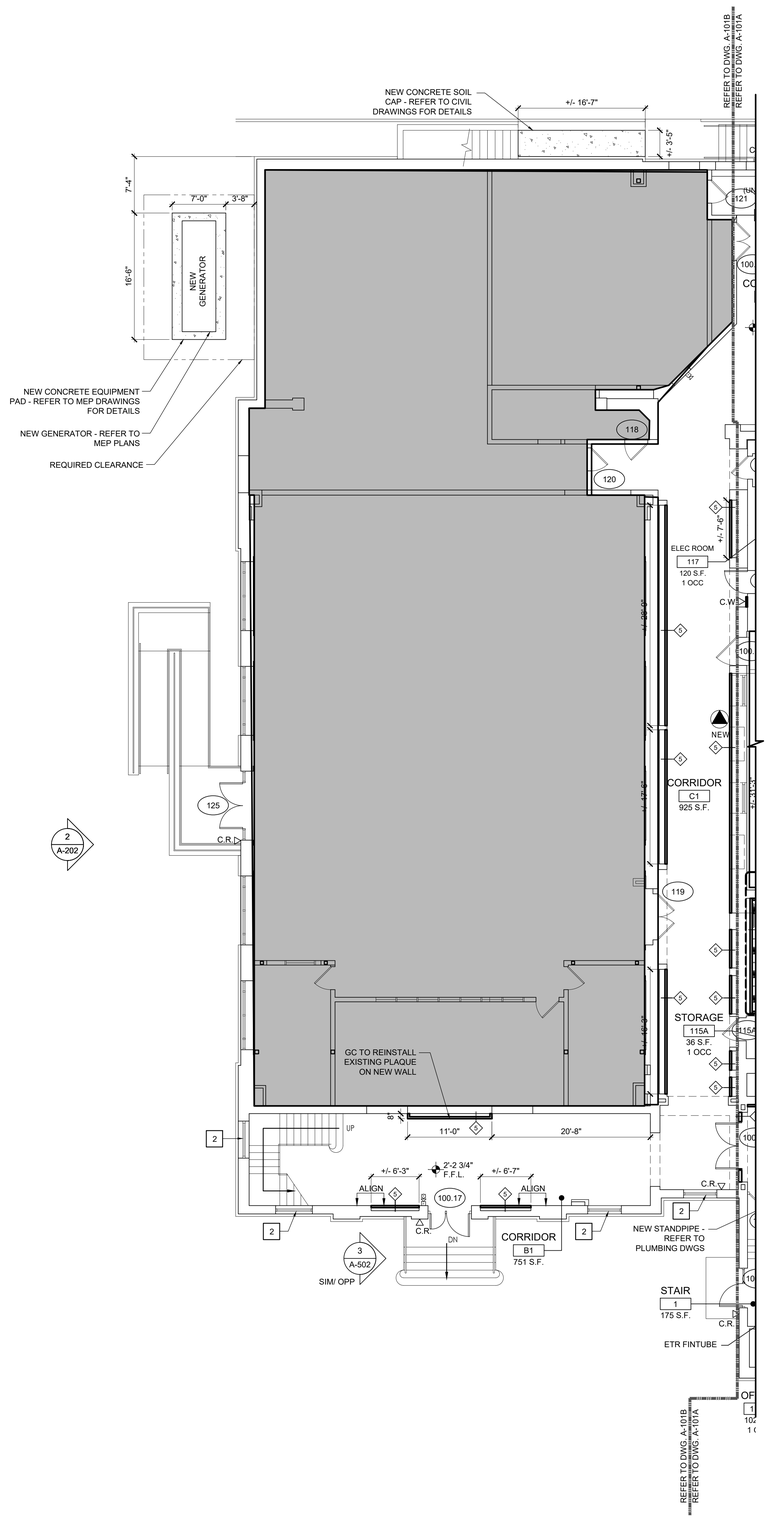
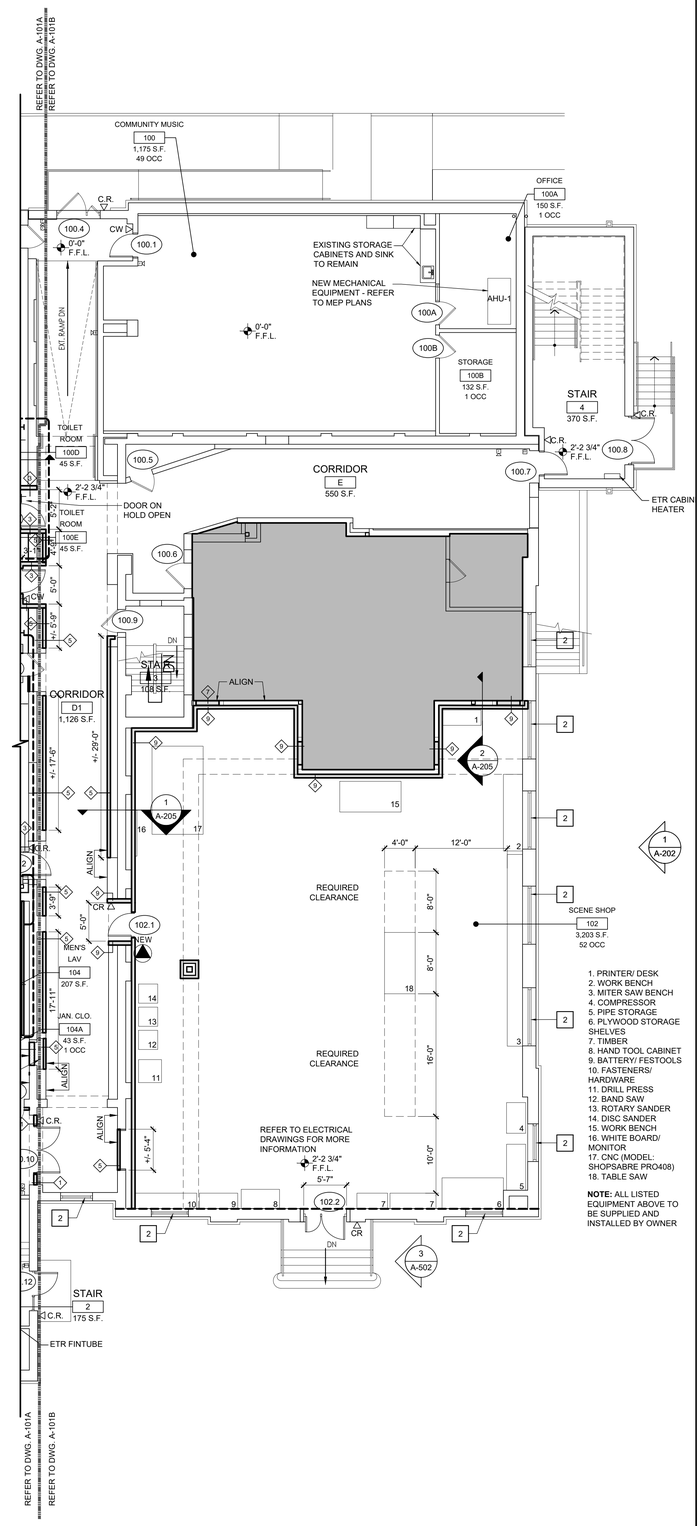


PARTIAL FIRST FLOOR PLAN AREA 'B'

1 SCALE: 1/8" = 1'-0"



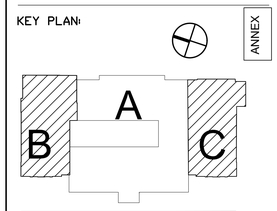
1. PRINTER/ DESK
2. WORK BENCH
3. MITER SAW BENCH
4. COMPRESSOR
5. PIPE STORAGE
6. PLYWOOD STORAGE SHELVES
7. TIMBER
8. HAND TOOL CABINET
9. BATTERY/ FESTOOLS
10. FASTENERS/ HARDWARE
11. DRILL PRESS
12. BAND SAW
13. ROTARY SANDER
14. DISC SANDER
15. WORK BENCH
16. WHITE BOARD/ MONITOR
17. CNC (MODEL: SHOPSABRE PRO408)
18. TABLE SAW

NOTE: ALL LISTED EQUIPMENT ABOVE TO BE SUPPLIED AND INSTALLED BY OWNER

PARTIAL FIRST FLOOR PLAN AREA 'C'

2 SCALE: 1/8" = 1'-0"

KEY PLAN:



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Drawing Information:
Project No: 25.024
Date: 04/09/2025
Drawn By: TC
Checked By: KG

Sheet Name:
PARTIAL FIRST FLOOR PLAN AREAS B & C

Sheet No:
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Sheet 0 of 000

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FLOOR PLAN NOTES

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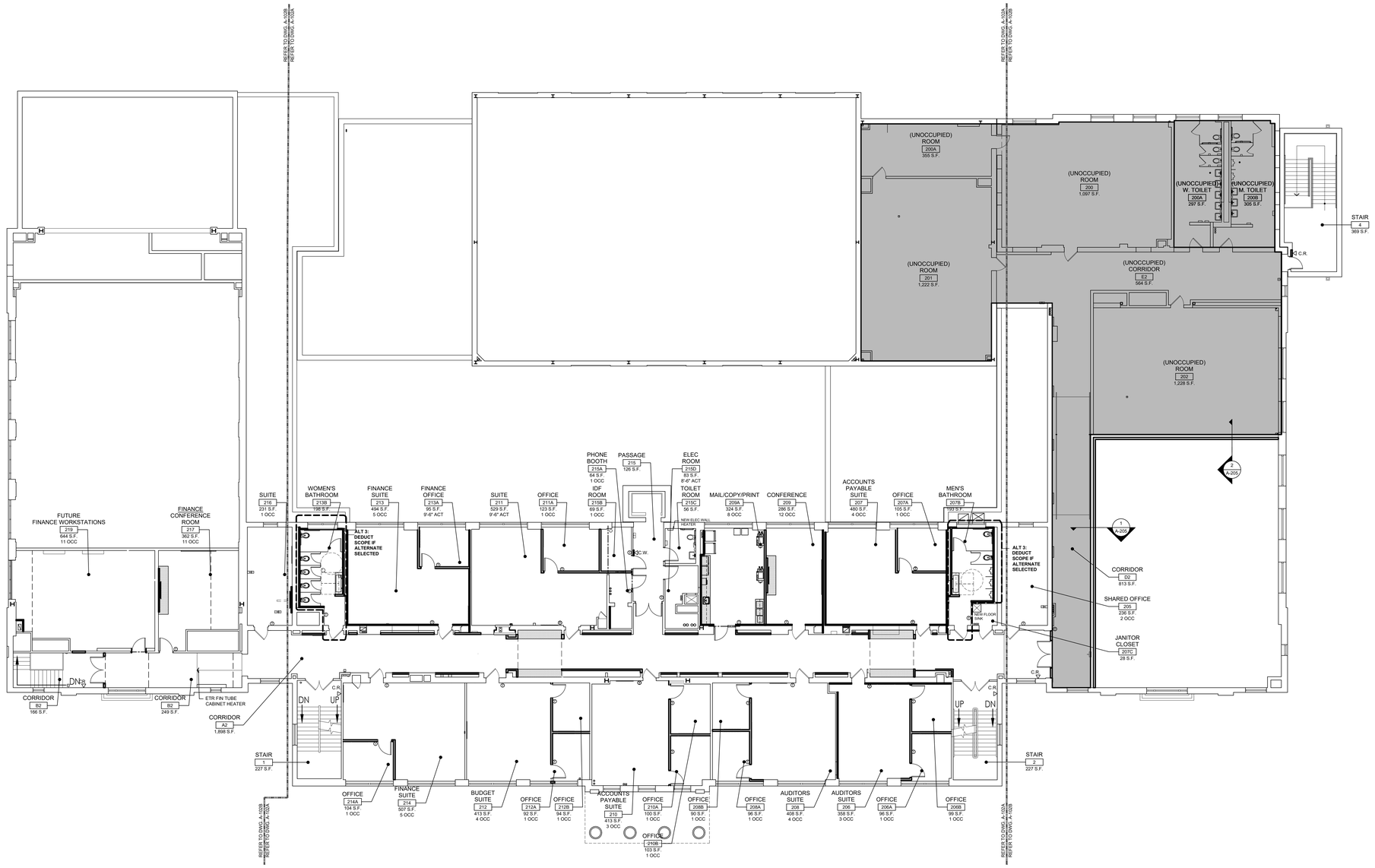
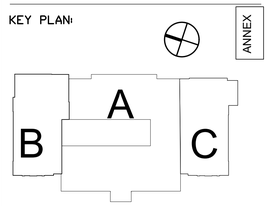


1 SECOND FLOOR KEY PLAN

SCALE: 3/32" = 1'-0"

KEY PLAN:



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Drawing Information:

Project No: 25.024
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Sheet Name:

SECOND FLOOR PLAN

Sheet No:

A-102
Sheet 0 of 000

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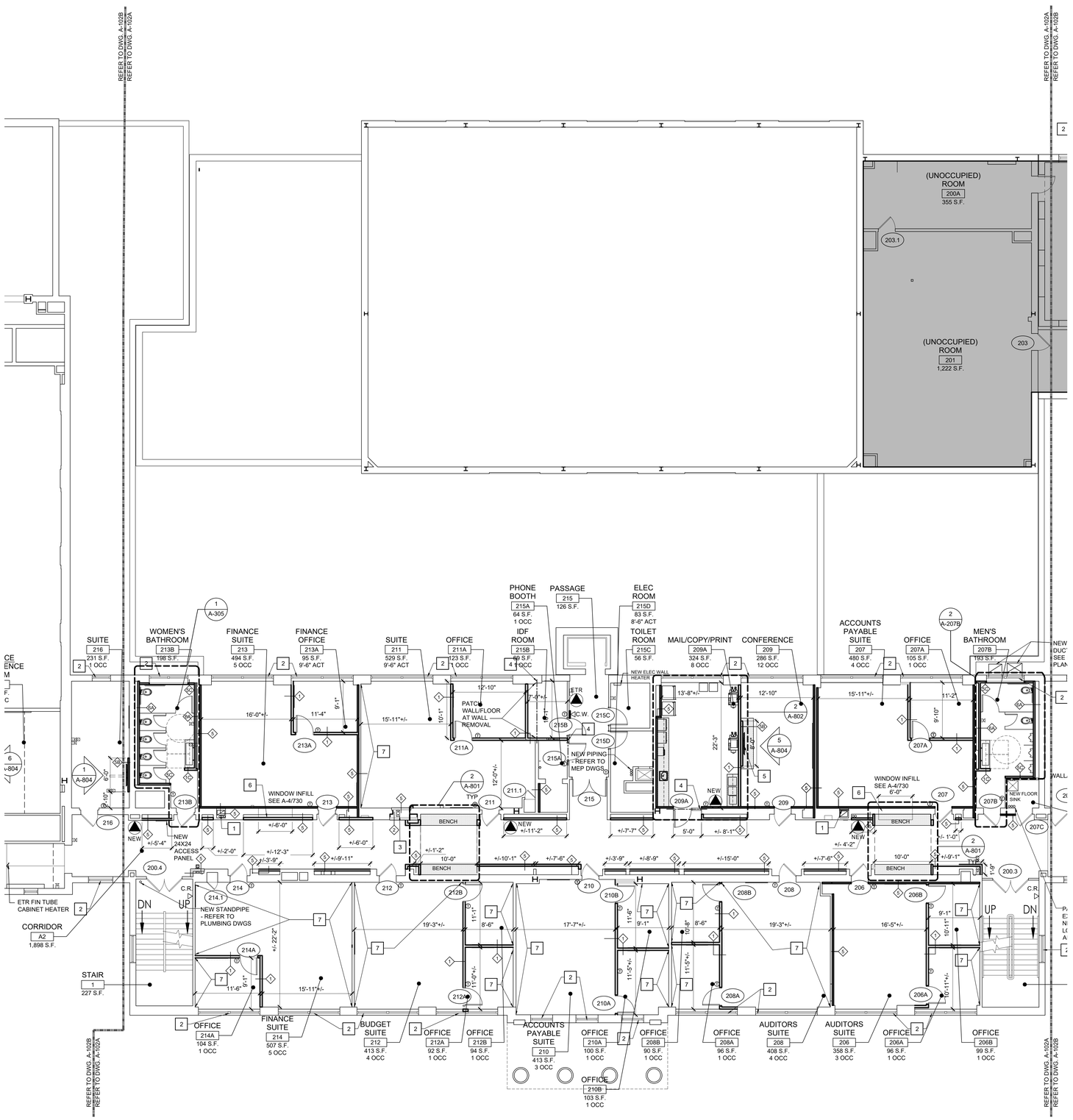
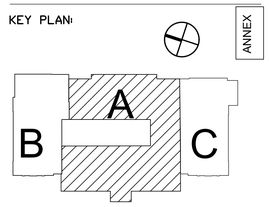
- C.R. — WIRED CARD READER
- C.W. — WIRELESS CARD READER
- FIRE EXTINGUISHER BY GC - REFER TO PLANS
- 5B — WALL TAG - REFER TO PARTITION TYPES ON SHEET A-002A
- T — THERMOSTAT - REFER TO ELECTRICAL PLANS
- NEW MILLWORK BY G.C.



PARTIAL SECOND FLOOR PLAN AREA 'A'

1 SCALE: 1/8" = 1'-0"

KEY PLAN:



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	12/03/25	DCA Submission

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Richard D. Alderiso , AIA
NJ RA AI 15023, NY RA 027416, PA RA 405474

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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date: 04/09/2025
Drawn By: TC
Checked By: KG

Sheet Name:
PARTIAL SECOND FLOOR PLAN AREA 'A'

Sheet No:
A-102A
Sheet 0 of 000

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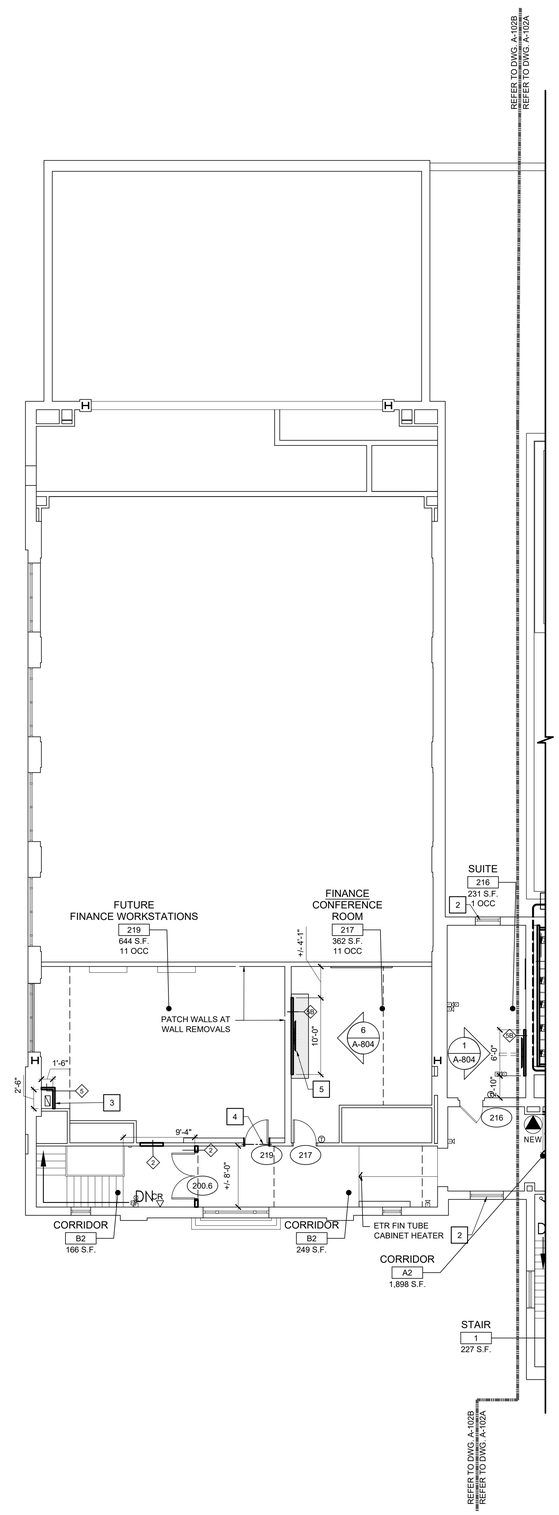
FLOOR PLAN NOTES

1. EXHAUST CHASE & PIPING CHASE REPAIR, FILL IN OPENINGS W/ 2 1/2" METAL STUDS & 5/8" GYPSUM BOARD. REFER TO MEPFP DRAWINGS. ALIGN W/ AND MATCH ADJACENT FINISHES.
2. PROVIDE AND INSTALL NEW WINDOW INSECT SCREENS. REFER TO DETAILS ON SHEET A-002.
3. NEW PIPE AND/OR MECHANICAL CHASE W/ 2 1/2" METAL STUDS & PAINTED 5/8" GYPSUM BOARD - REFER TO DETAILS ON SHEET A-702.
4. NEW ENLARGED OPENING/LINTEL - REFER TO LINTEL SCHEDULE ON SHEET S-102.
5. ALL MONITOR LOCATIONS TO HAVE PLYWOOD BLOCKING SUBSTRATE.
6. INFILL VOID AT REMOVED DOOR/WINDOW WITH BATT INSULATION.
7. EXISTING WALL TO BE SKIM COATED AND PREPPED TO RECEIVE A LEVEL 4 PAINTED FINISH. ALL PATCHING AN REPAIRS ARE TO BE FEATHERED AND BLENDED TO ACHIEVE A SEAMLESS, UNIFORM APPEARANCE ACROSS THE ENTIRE SURFACE.

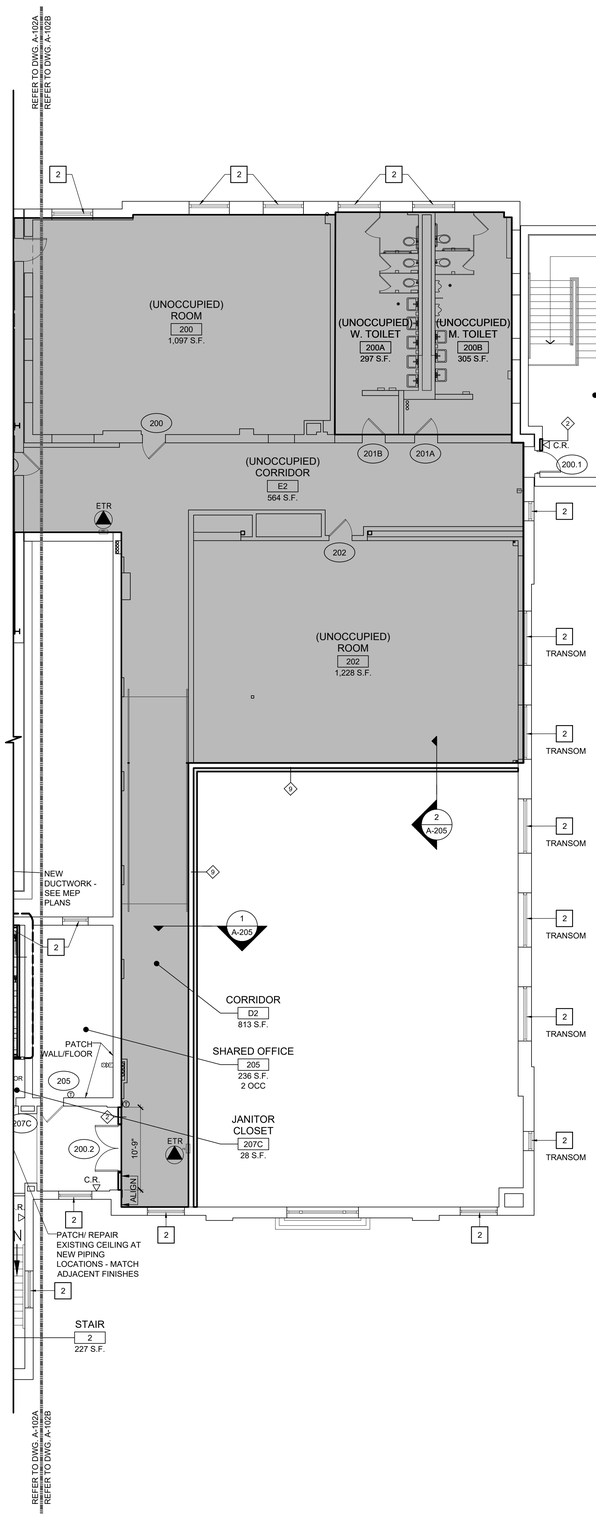
FLOOR PLAN LEGEND

- C.R. — WIRED CARD READER
- C.W. — WIRELESS CARD READER
- FIRE EXTINGUISHER BY GC - REFER TO PLANS
- 5B — WALL TAG - REFER TO PARTITION TYPES ON SHEET A-002A
- T — THERMOSTAT - REFER TO ELECTRICAL PLANS
- NEW MILLWORK BY G.C.



PARTIAL SECOND FLOOR PLAN AREA 'B'

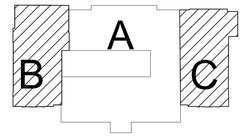
1 SCALE: 1/8" = 1'-0"



PARTIAL SECOND FLOOR PLAN AREA 'C'

2 SCALE: 1/8" = 1'-0"

KEY PLAN:



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Drawing Information:
Project No: 25.024
Date: 04/09/2025
Drawn By: TC
Checked By: KG

Sheet Name:
PARTIAL SECOND FLOOR PLAN AREAS B & C

Sheet No:
A-102B
Sheet 0 of 000

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4. NEW ENLARGED OPENING/LINTEL - REFER TO LINTEL SCHEDULE ON SHEET S-102.
5. ALL MONITOR LOCATIONS TO HAVE PLYWOOD BLOCKING SUBSTRATE.
6. INFILL VOID AT REMOVED DOOR/WINDOW WITH BATT INSULATION.
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- C.W. — WIRELESS CARD READER
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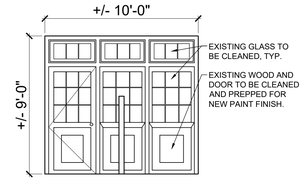
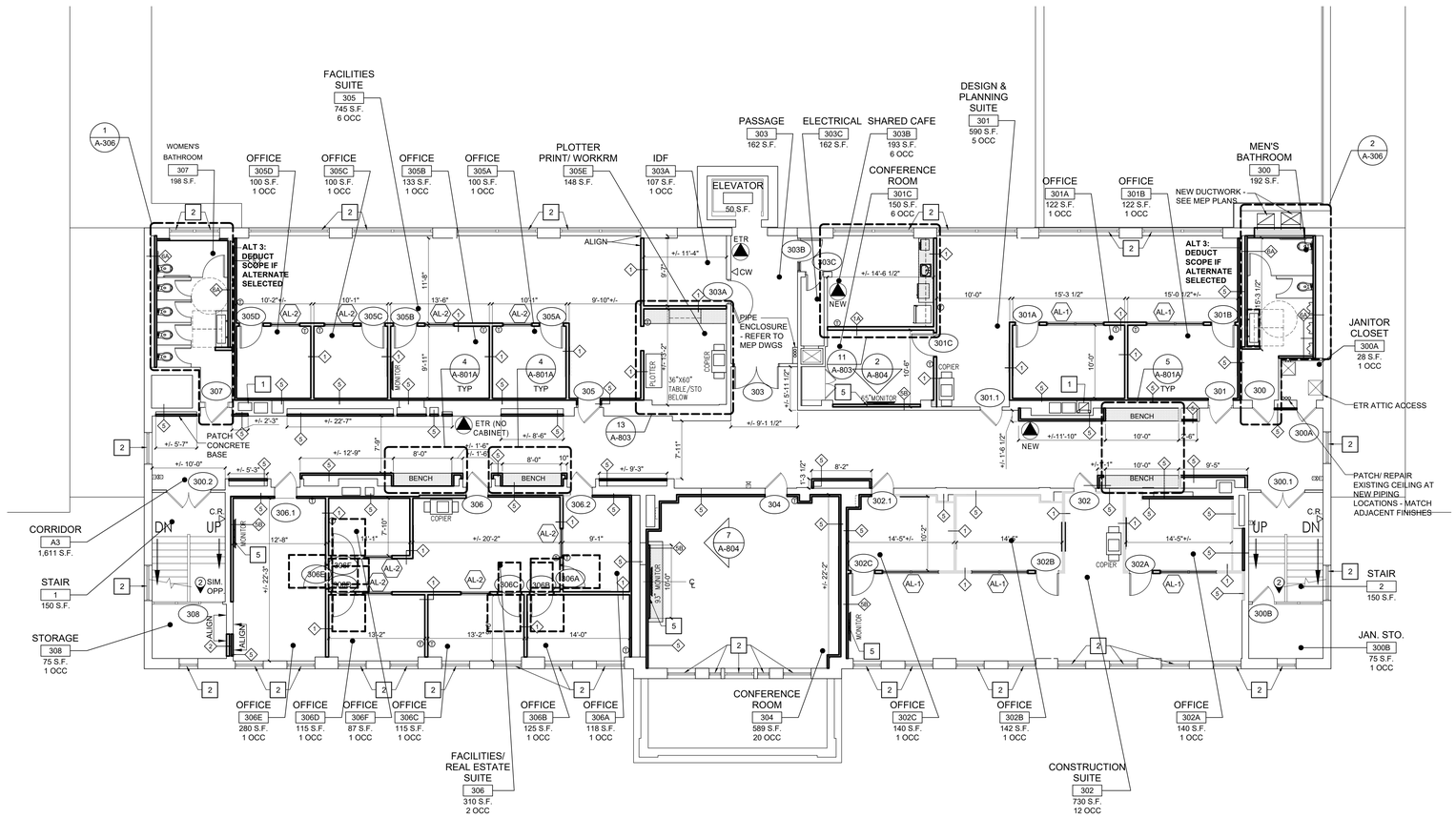
- T — THERMOSTAT - REFER TO ELECTRICAL PLANS
- NEW MILLWORK BY G.C.



2 THIRD FLOOR STAIRWELL 1 & 2 ELEVATION

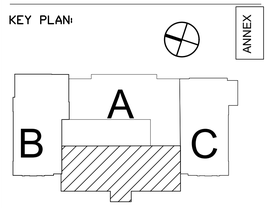
SCALE: 1/4" = 1'-0"



1 THIRD FLOOR PLAN

SCALE: 1/8" = 1'-0"

KEY PLAN:



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Drawing Information:
Project No: 25.024
Date: 04/09/2025
Drawn By: TC
Checked By: KG

Sheet Name:
THIRD FLOOR PLAN

Sheet No:
A-103
Sheet 0 of 000

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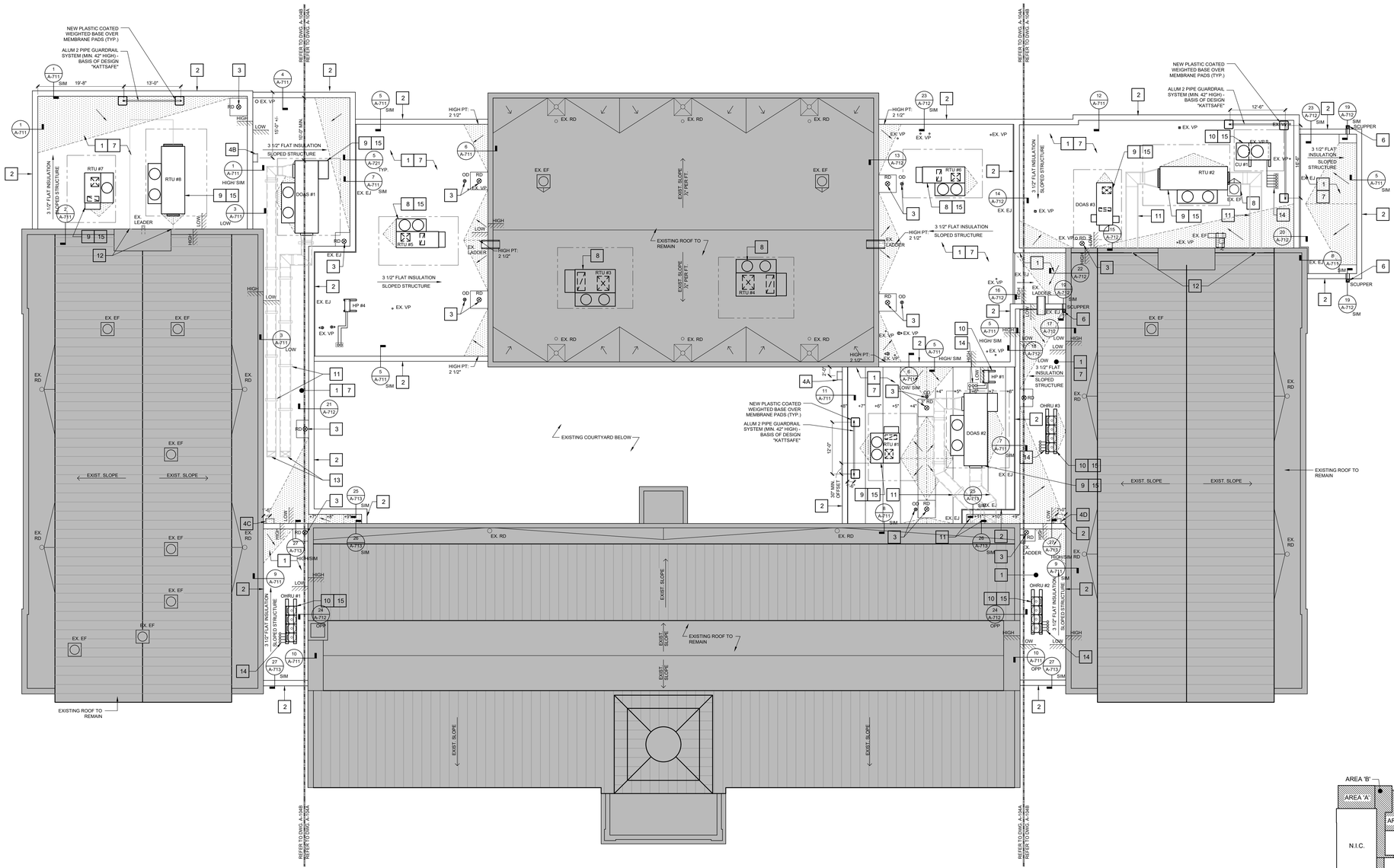


1 ROOF PLAN

SCALE: 3/32" = 1'-0"

NEW WORK NOTES

SEE DEMOLITION NOTES AND GENERAL NOTES ON THIS DRAWING.

SEE ALL TECHNICAL SPECIFICATIONS ALONG WITH DETAILS FOR THE DESCRIPTION AND BALANCE OF INFORMATION REGARDING THE NEW ROOF SYSTEM AND ASSEMBLY.

G.C. MUST SCOPE ALL ROOF DRAINS AND ASSOCIATED DRAINAGE LEADERS PRIOR TO ANY WORK STARTING. G.C. TO PROVIDE DETAIL SCOPE REPORT WITH KEYED LOCATIONS.

1. NEW 60 MIL. EPDM ROOF SYSTEM OVER EXISTING ROOF DECK. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. ALL DIMENSIONS FOR THE TAPERED INSULATION LAYOUT AND FLAT AREAS OF ROOF ARE PREDICATED ON THE EXISTING ROOF DRAIN LOCATIONS. ANY FLAT AREA OF ROOF EXCEEDING 48-INCHES IN WIDTH SHALL RECEIVE A CRICKET WITH 1/4" PER FT SLOPE. SUBMIT DIMENSIONED, TAPERED INSULATION SHOP DRAWINGS AFTER EXACT ROOF DRAIN LOCATIONS HAVE BEEN DETERMINED INDICATING ALL SLOPES, CRICKETS, AND FLAT AREAS.
2. NEW METAL COPING AND/OR FASCIA TRIM. SEE TECHNICAL SPECIFICATION AND ROOF DETAIL SHEETS FOR ADDITIONAL INFORMATION.
3. NEW ROOF DRAIN WITH 4'X4' TAPERED SUMP. SEE DETAIL 6/A-720.
4. FURNISH AND INSTALL NEW ROOF LADDER (4A, 4B, 4C, 4D). REFER TO PLANS FOR LOCATIONS AND DETAILS.
5. NEW VENT PIPE FLASHING, SEE DETAIL 7/A-720.
6. NEW THROUGH WALL SCUPPER, 4"x4" ALUMINUM DOWNSPOUT AND MOUNTING HARDWARE TO CONCRETE SPLASH BLOCK BELOW. SEE DETAIL 19/A-712
7. NEW ROOF WALKWAY PADS. REFER TO SPECIFICATIONS.
8. CAREFULLY REMOVE MECHANICAL EQUIPMENT IN ACCORDANCE WITH DEMOLITION NOTES ON DRAWINGS D-104A & D-104B. REINSTALL NEW EQUIPMENT ONCE ROOF BASE FLASHING WORK IS COMPLETE. SEE 5/A-720 FOR CURB DETAIL. EXTEND DUCTWORK AS REQUIRED TO INSTALL AND TEST MECHANICAL EQUIPMENT AFTER HAVE BEEN SET.
9. NEW ROOF TOP UNIT INSTALLED ON NEW EQUIPMENT SUPPORT CURBS, SEE DETAIL 3/A-720. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
10. NEW CONDENSING UNIT, MECHANICAL EQUIPMENT ETC. INSTALLED ON NEW EQUIPMENT SUPPORT CURBS, SEE DETAIL 2/A-720. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
11. NEW DUCTWORK, PROVIDE NEW SUPPORT CURBS FOR ROOFTOP DUCT, SEE DETAIL 1/A-721. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
12. NEW THROUGH WALL DUCT PENETRATION, SEE DETAIL 6/A-721. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
13. NEW THROUGH ROOF DUCT PENETRATION, SEE DETAIL 2/A-721. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
14. PROVIDE AND INSTALL NEW PIPE PORTAL, SEE DETAIL 4/A-720. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
15. INSTALL 1/2" PER FOOT TAPERED CRICKET BEHIND ALL ROOF TOP EQUIPMENT AND PENETRATIONS. (TYPICAL @ ALL)

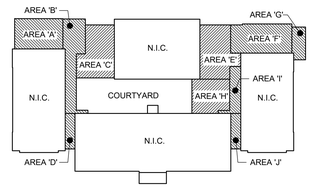
LADDER SCHEDULE

4A NEW ACCESS LADDER WITH LOCKABLE SECURITY DOOR, REFER TO 2/A-104A FOR CLEARANCES.
GRADE TO TOP OF WALL: APPROX. 20'-0"
TOP OF WALL CONDITION: APPROX. 24" TALL PARAPET
EXISTING WALL : CMU W/ BRICK VENEER

4B NEW ROOF LADDER FOR CHANGE IN ELEVATION, REFER TO 2/A-104B FOR CLEARANCES.
ROOF TO TOP OF WALL: APPROX. 10'-0"
TOP OF WALL CONDITION: APPROX. 48" TALL PARAPET
EXISTING WALL : CMU W/ BRICK VENEER

4C NEW ROOF LADDER FOR CHANGE IN ELEVATION, REFER TO 2/A-104B FOR CLEARANCES.
ROOF TO TOP OF WALL: APPROX. 15'-0"
TOP OF WALL CONDITION: APPROX. 36" TALL PARAPET
EXISTING WALL : CMU W/ BRICK VENEER

4D NEW ROOF LADDER FOR CHANGE IN ELEVATION, REFER TO 2/A-104B FOR CLEARANCES.
ROOF TO TOP OF WALL: APPROX. 15'-0"
TOP OF WALL CONDITION: APPROX. 36" TALL PARAPET
EXISTING WALL : CMU W/ BRICK VENEER



2 ROOF KEY PLAN

SCALE: NTS

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Drawing Information:
Project No: 25.024
Date: 06/16/2025
Drawn By: TC
Checked By: KG

Sheet Name:
ROOF PLAN

Sheet No:
A-104
Sheet 0 of 000

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NEW WORK NOTES

SEE DEMOLITION NOTES AND GENERAL NOTES ON THIS DRAWING.

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2. NEW METAL COPING AND/OR FASCIA TRIM. SEE TECHNICAL SPECIFICATION AND ROOF DETAIL SHEETS FOR ADDITIONAL INFORMATION.
3. NEW ROOF DRAIN WITH 4'X4' TAPERED SUMP. SEE DETAIL 6/A-720.
4. FURNISH AND INSTALL NEW ROOF LADDER (4A, 4B, 4C, 4D). REFER TO PLANS FOR LOCATIONS AND DETAILS.
5. NEW VENT PIPE FLASHING, SEE DETAIL 7/A-720.
6. NEW THROUGH WALL SCUPPER, 4"x4" ALUMINUM DOWNSPOUT AND MOUNTING HARDWARE TO CONCRETE SPLASH BLOCK BELOW. SEE DETAIL 19/A-712
7. NEW ROOF WALKWAY PADS. REFER TO SPECIFICATIONS.
8. CAREFULLY REMOVE MECHANICAL EQUIPMENT IN ACCORDANCE WITH DEMOLITION NOTES ON DRAWINGS D-104A & D-104B. REINSTALL NEW EQUIPMENT ONCE ROOF BASE FLASHING WORK IS COMPLETE. SEE 5/A-720 FOR CURB DETAIL. EXTEND DUCTWORK AS REQUIRED TO INSTALL AND TEST MECHANICAL EQUIPMENT AFTER HAVE BEEN SET.
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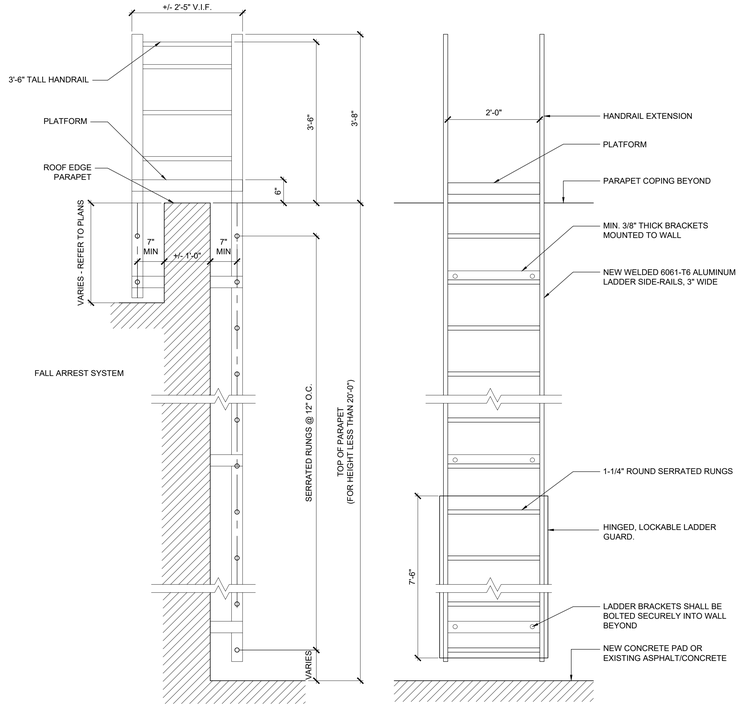
15. INSTALL 1/2" PER FOOT TAPERED CRICKET BEHIND ALL ROOF TOP EQUIPMENT AND PENETRATIONS. (TYPICAL @ ALL)

LADDER SCHEDULE

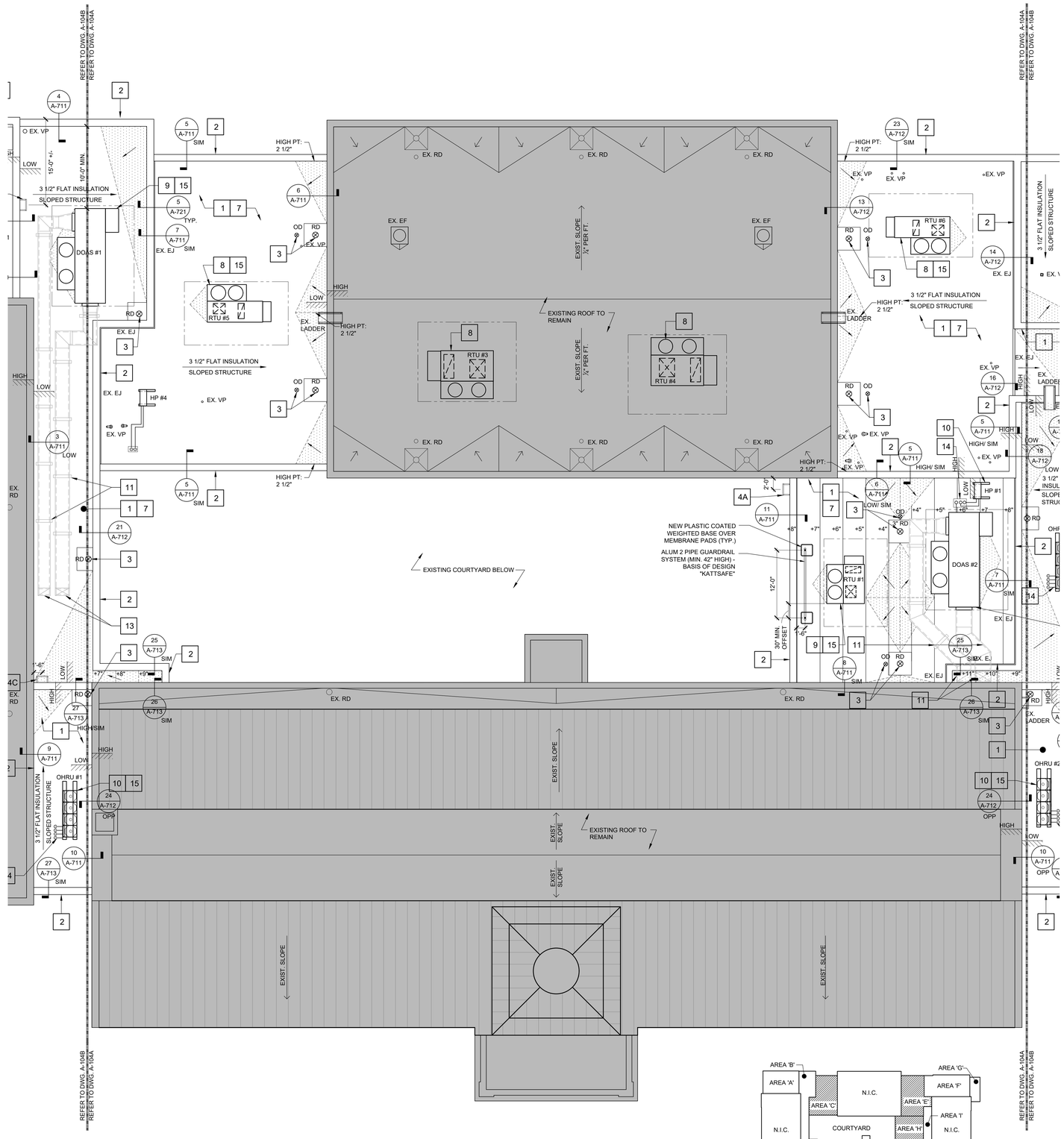
4A	NEW ACCESS LADDER WITH LOCKABLE SECURITY DOOR, REFER TO 2/A-104A FOR CLEARANCES.	
	GRADE TO TOP OF WALL:	APPROX. 20'-0"
	TOP OF WALL CONDITION:	APPROX. 24" TALL PARAPET
	EXISTING WALL :	CMU W/ BRICK VENEER
4B	NEW ROOF LADDER FOR CHANGE IN ELEVATION, REFER TO 2/A-104B FOR CLEARANCES.	
	ROOF TO TOP OF WALL:	APPROX. 10'-0"
	TOP OF WALL CONDITION:	APPROX. 48" TALL PARAPET
	EXISTING WALL :	CMU W/ BRICK VENEER
4C	NEW ROOF LADDER FOR CHANGE IN ELEVATION, REFER TO 2/A-104B FOR CLEARANCES.	
	ROOF TO TOP OF WALL:	APPROX. 15'-0"
	TOP OF WALL CONDITION:	APPROX. 36" TALL PARAPET
	EXISTING WALL :	CMU W/ BRICK VENEER
4D	NEW ROOF LADDER FOR CHANGE IN ELEVATION, REFER TO 2/A-104B FOR CLEARANCES.	
	ROOF TO TOP OF WALL:	APPROX. 15'-0"
	TOP OF WALL CONDITION:	APPROX. 36" TALL PARAPET
	EXISTING WALL :	CMU W/ BRICK VENEER



TYPICAL ACCESS LADDER W/ HANDRAIL EXTENSION FOR HEIGHT LESS THAN 24'-0" (HINGED LOCKABLE LADDER GUARD)

2 ROOF ACCESS LADDER DETAIL

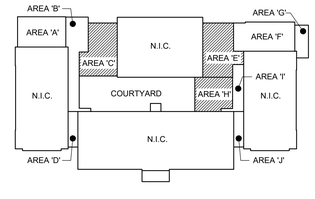
SCALE: 3/4" = 1'-0"



1 ROOF PLAN AREAS 'C', 'E', 'H'

SCALE: 1/8" = 1'-0"

5 15



3 ROOF KEY PLAN

SCALE: NTS

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Drawn By: TC
Checked By: KG

Sheet Name:

ROOF PLAN
AREA 'C', 'E', & 'H'

Sheet No:

A-104A

Sheet 0 of 000

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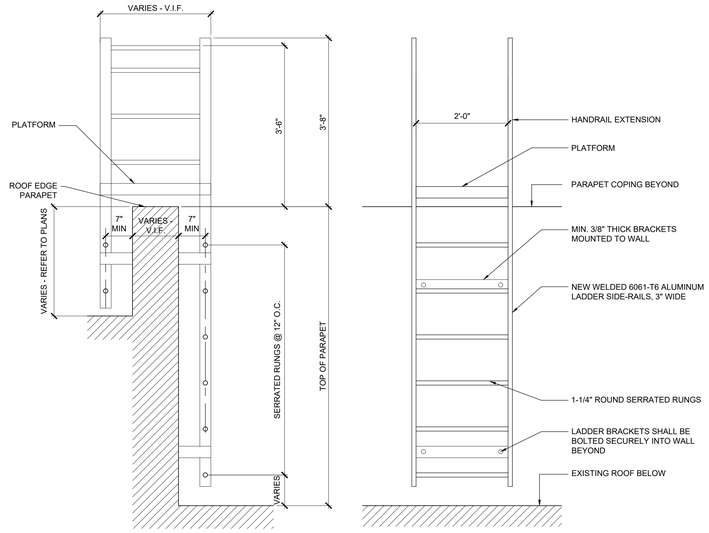
1. NEW 60 MIL. EPDM ROOF SYSTEM OVER EXISTING ROOF DECK. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. ALL DIMENSIONS FOR THE TAPERED INSULATION LAYOUT AND FLAT AREAS OF ROOF ARE PREDICATED ON THE EXISTING ROOF DRAIN LOCATIONS. ANY FLAT AREA OF ROOF EXCEEDING 48-INCHES IN WIDTH SHALL RECEIVE A CRICKET WITH 1/4" PER FT SLOPE. SUBMIT DIMENSIONED, TAPERED INSULATION SHOP DRAWINGS AFTER EXACT ROOF DRAIN LOCATIONS HAVE BEEN DETERMINED INDICATING ALL SLOPES, CRICKETS, AND FLAT AREAS.
2. NEW METAL COPING AND/OR FASCIA TRIM. SEE TECHNICAL SPECIFICATION AND ROOF DETAIL SHEETS FOR ADDITIONAL INFORMATION.
3. NEW ROOF DRAIN WITH 4'X4' TAPERED SUMP. SEE DETAIL 6/A-720.
4. FURNISH AND INSTALL NEW ROOF LADDER (4A, 4B, 4C, 4D). REFER TO PLANS FOR LOCATIONS AND DETAILS.
5. NEW VENT PIPE FLASHING, SEE DETAIL 7/A-720.
6. NEW THROUGH WALL SCUPPER, 4"x4" ALUMINUM DOWNSPOUT AND MOUNTING HARDWARE TO CONCRETE SPLASH BLOCK BELOW. SEE DETAIL 19/A-712
7. NEW ROOF WALKWAY PADS. REFER TO SPECIFICATIONS.
8. CAREFULLY REMOVE MECHANICAL EQUIPMENT IN ACCORDANCE WITH DEMOLITION NOTES ON DRAWINGS D-104A & D-104B. REINSTALL NEW EQUIPMENT ONCE ROOF BASE FLASHING WORK IS COMPLETE. SEE 5/A-720 FOR CURB DETAIL. EXTEND DUCTWORK AS REQUIRED TO INSTALL AND TEST MECHANICAL EQUIPMENT AFTER HAVE BEEN SET.
9. NEW ROOF TOP UNIT INSTALLED ON NEW EQUIPMENT SUPPORT CURBS, SEE DETAIL 3/A-720. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
10. NEW CONDENSING UNIT, MECHANICAL EQUIPMENT ETC. INSTALLED ON NEW EQUIPMENT SUPPORT CURBS, SEE DETAIL 2/A-720. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
11. NEW DUCTWORK, PROVIDE NEW SUPPORT CURBS FOR ROOFTOP DUCT, SEE DETAIL 1/A-721. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
12. NEW THROUGH WALL DUCT PENETRATION, SEE DETAIL 6/A-721. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
13. NEW THROUGH ROOF DUCT PENETRATION, SEE DETAIL 2/A-721. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
14. PROVIDE AND INSTALL NEW PIPE PORTAL, SEE DETAIL 4/A-720. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
15. INSTALL 1/2" PER FOOT TAPERED CRICKET BEHIND ALL ROOF TOP EQUIPMENT AND PENETRATIONS. (TYPICAL @ ALL)

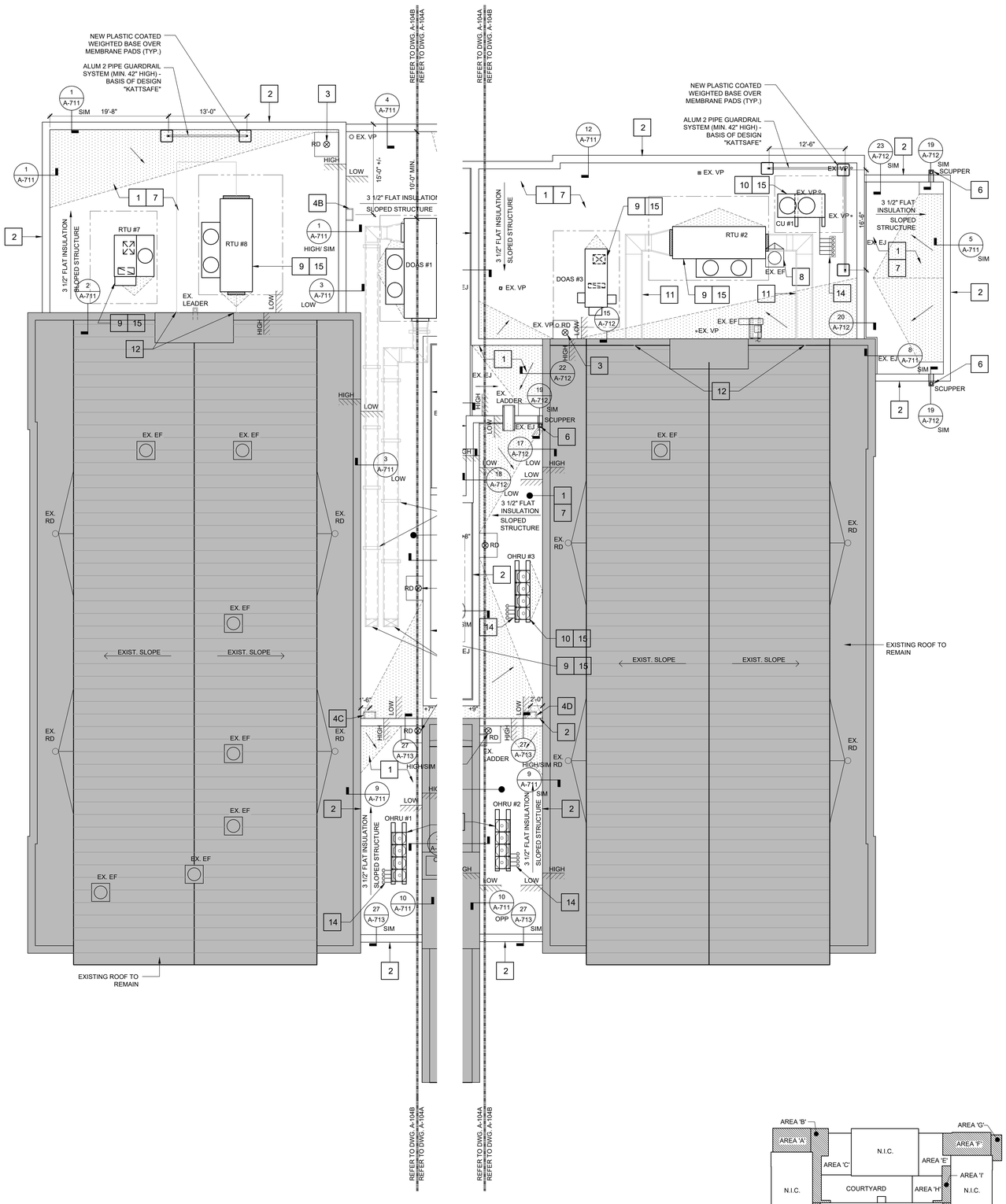
LADDER SCHEDULE

4A	NEW ACCESS LADDER WITH LOCKABLE SECURITY DOOR, REFER TO 2/A-104A FOR CLEARANCES.	
	GRADE TO TOP OF WALL:	APPROX. 20'-0"
	TOP OF WALL CONDITION:	APPROX. 24" TALL PARAPET
	EXISTING WALL :	CMU W/ BRICK VENEER
4B	NEW ROOF LADDER FOR CHANGE IN ELEVATION, REFER TO 2/A-104B FOR CLEARANCES.	
	ROOF TO TOP OF WALL:	APPROX. 10'-0"
	TOP OF WALL CONDITION:	APPROX. 48" TALL PARAPET
	EXISTING WALL :	CMU W/ BRICK VENEER
4C	NEW ROOF LADDER FOR CHANGE IN ELEVATION, REFER TO 2/A-104B FOR CLEARANCES.	
	ROOF TO TOP OF WALL:	APPROX. 15'-0"
	TOP OF WALL CONDITION:	APPROX. 36" TALL PARAPET
	EXISTING WALL :	CMU W/ BRICK VENEER
4D	NEW ROOF LADDER FOR CHANGE IN ELEVATION, REFER TO 2/A-104B FOR CLEARANCES.	
	ROOF TO TOP OF WALL:	APPROX. 15'-0"
	TOP OF WALL CONDITION:	APPROX. 36" TALL PARAPET
	EXISTING WALL :	CMU W/ BRICK VENEER



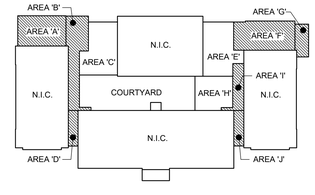
TYPICAL ROOF LADDER W/ HANDRAIL EXTENSION FOR CHANGE IN ROOF ELEVATIONS

3 ROOF LADDER DETAIL
SCALE: 3/4" = 1'-0"



1 ROOF PLAN AREAS 'A', 'B', 'D', 'F', 'G', 'I', 'J'
SCALE: 1/8" = 1'-0"

5 15



3 ROOF KEY PLAN
SCALE: NTS

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NJ RA AI 15023, NY RA 027416, PA RA 405474

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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date: 06/16/2025
Drawn By: TC
Checked By: KG

Sheet Name:
ROOF PLAN AREAS 'A', 'B', 'D', 'F', 'G', 'I' & 'J'

Sheet No:
A-104B
Sheet 0 of 000

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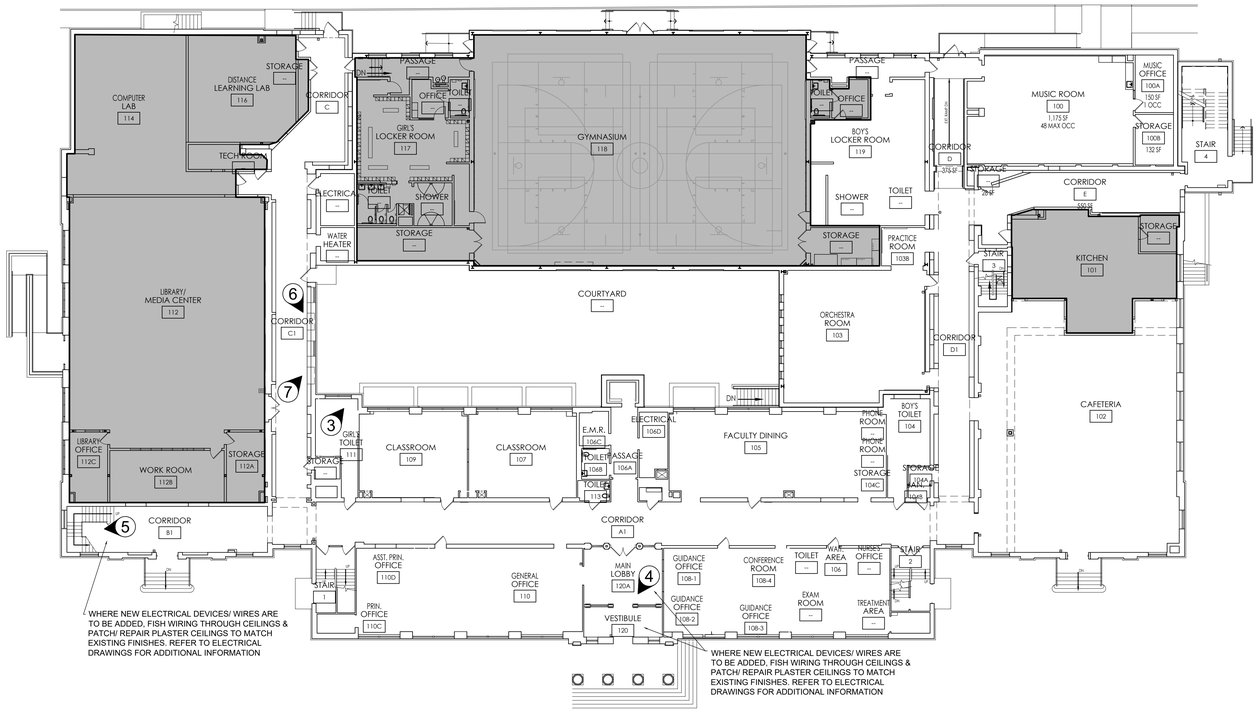
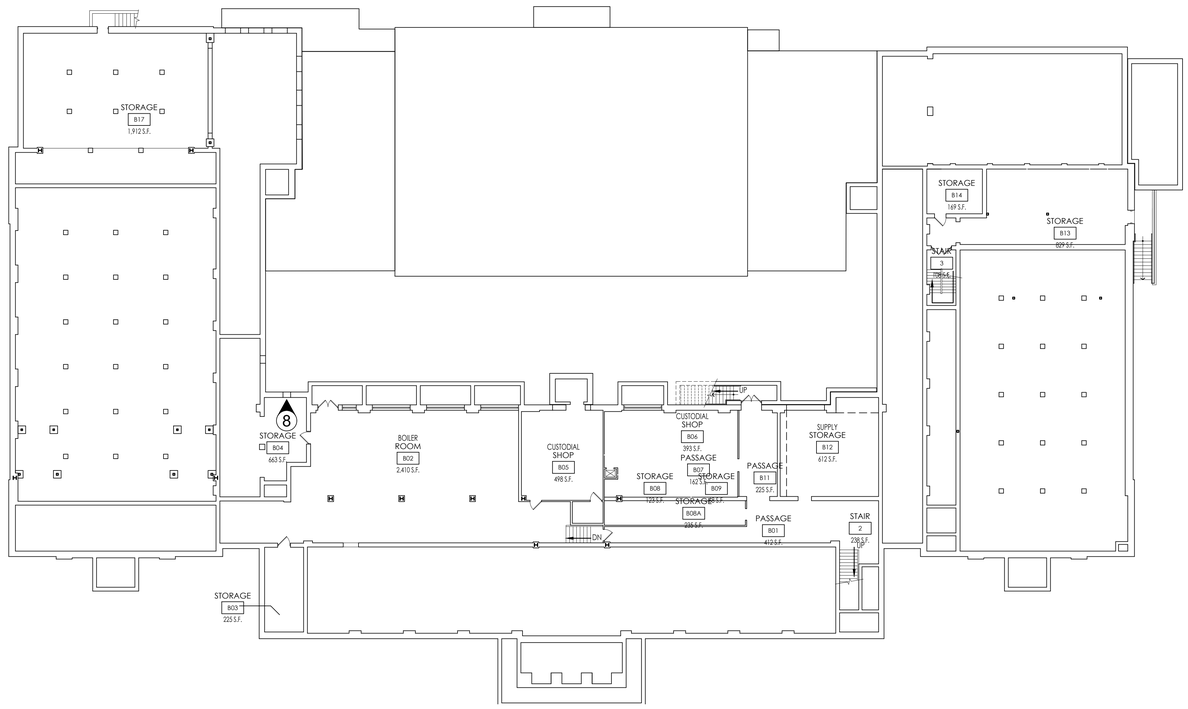


2 FIRST FLOOR PLAN
SCALE: 1/16" = 1'-0"



1 BASEMENT PLAN
SCALE: 1/16" = 1'-0"

EXISTING SUBSTRATE REPAIR AREAS
FIRST FLOOR

ROOM NUMBER	ROOM NAME	SQFT OF REPAIR	SUBSTRATE
A1	CORRIDOR	50 SF	PLASTER
B1	CORRIDOR	880 SF	PLASTER
C/C1	CORRIDOR	615 SF/25 SF	PLASTER/ GYP. BD.
D1	CORRIDOR	196 SF	PLASTER
1	STAIR	475 SF	PLASTER
112C	LIBRARY OFFICE	100 SF	PLASTER
104	BOY'S TOILET	10 SF	PLASTER
105	FACULTY DINING	400 SF	PLASTER
107	CLASSROOM	100 SF	GYP. BOARD
109	CLASSROOM	100 SF	PLASTER
111	GIRL'S TOILET	20 SF	PLASTER
120-120A	VESTIBULE-LOBBY	60 SF	PLASTER
	TOTALS	±3,000 SF	

EXISTING SUBSTRATE REPAIR AREAS
BASEMENT FLOOR

ROOM NUMBER	ROOM NAME	SQFT OF REPAIR	SUBSTRATE
B04	STORAGE	150 SF	CONCRETE
B02	BOILER ROOM	200 SF	BRICK/ CONCRETE
	TOTALS	±350 SF	

SUBSTRATE REPAIR NOTES:

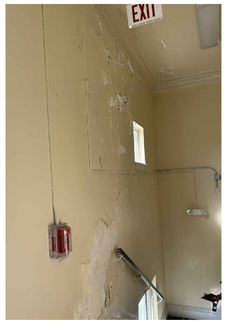
ALL REPAIR WORK TO BE BASE BID.

ALL WORK TO BE PERFORMED IN ACCORDANCE WITH SPECIFICATION SECTION 090210 MAINTENANCE OF PLASTER.

PHOTOS INCLUDED FOR INFORMATION ONLY, ADDITIONAL AREAS OF REPAIR ARE REQUIRED AS SHOWN ON EXISTING SUBSTRATE REPAIR TABLES ON A-107 AND A-108.

3 REPAIR
SCALE: NTS

4 REPAIR
SCALE: NTS



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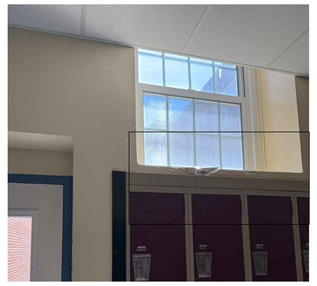

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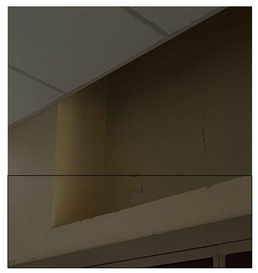

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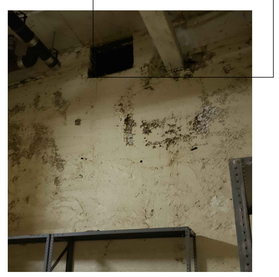
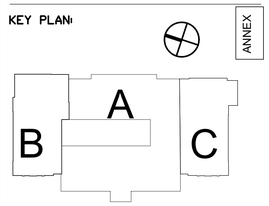


8 REPAIR
SCALE: NTS

9 REPAIR
SCALE: NTS

10 REPAIR
SCALE: NTS

KEY PLAN:



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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date: 04/24/25
Drawn By: TC
Checked By: KG

Sheet Name:
SUBSTRATE REPAIR SCHEDULE 'A'

Sheet No:
A-107
Sheet 0 of 000

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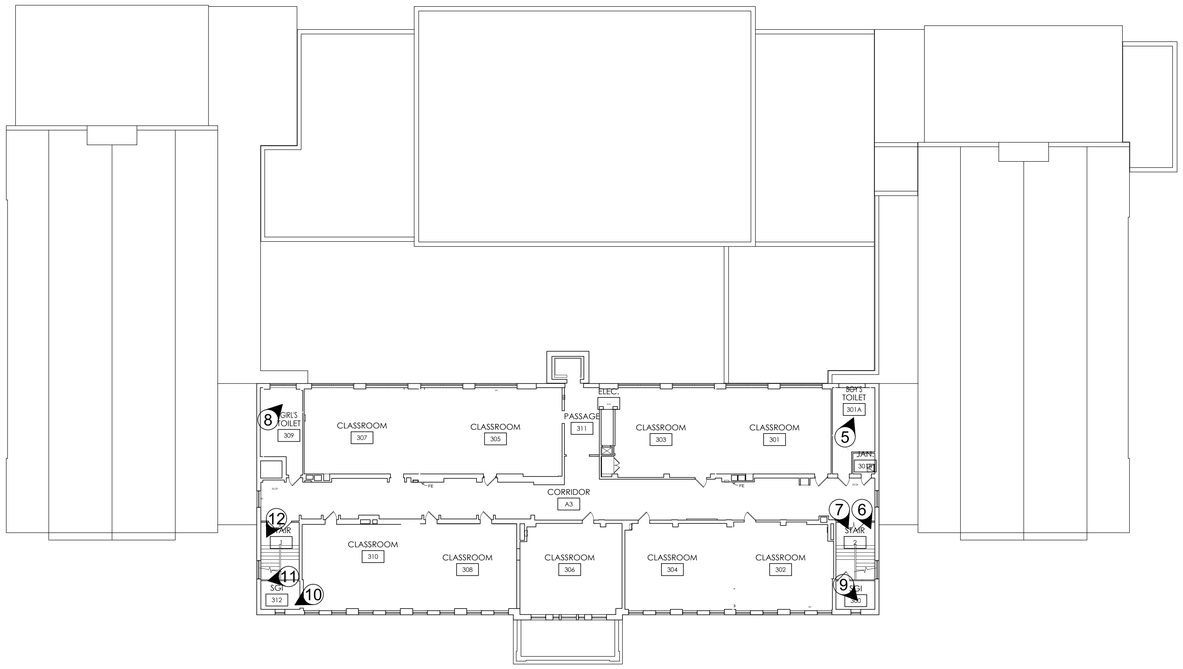
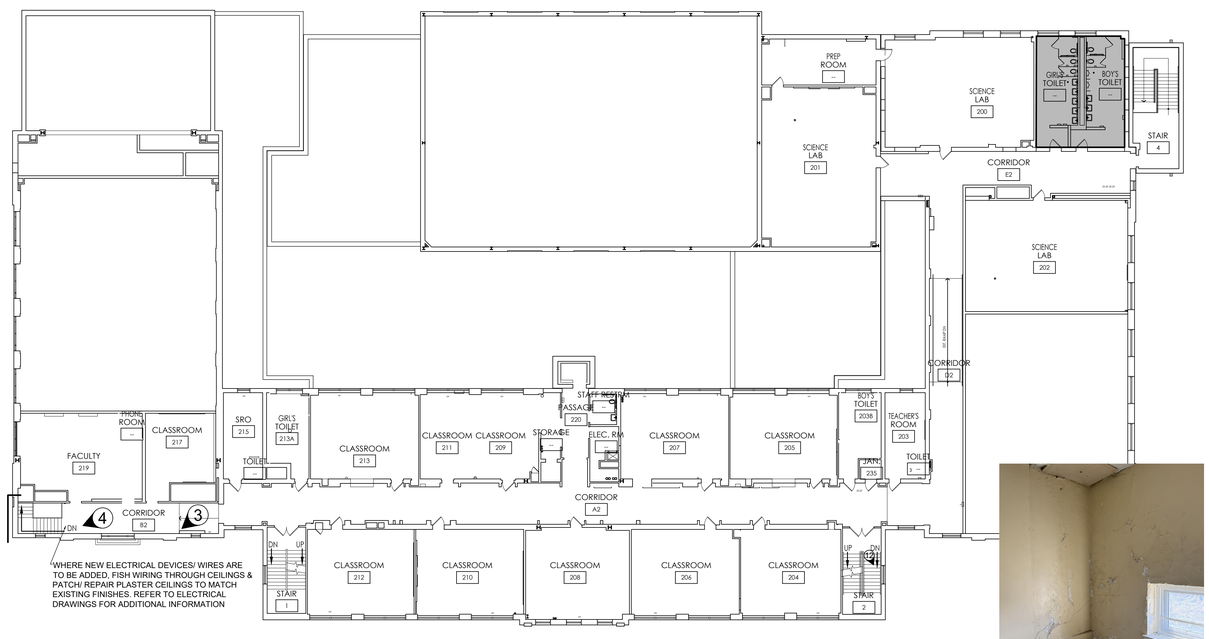
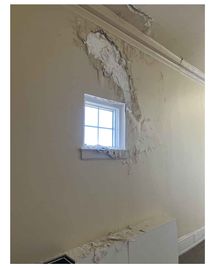


2 THIRD FLOOR PLAN
SCALE: 1/16" = 1'-0"



1 SECOND FLOOR PLAN
SCALE: 1/16" = 1'-0"



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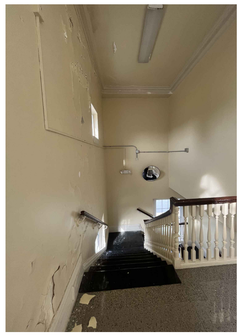

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5 REPAIR
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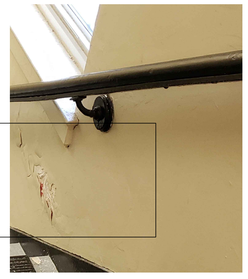

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7 REPAIR
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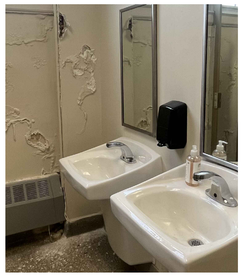
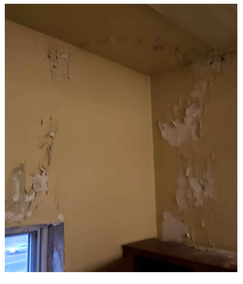


8 REPAIR
SCALE: NTS

9 REPAIR
SCALE: NTS

10 REPAIR
SCALE: NTS



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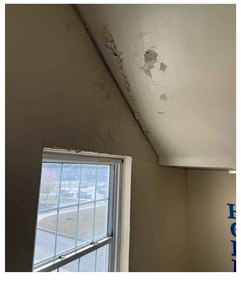


12 REPAIR
SCALE: NTS

EXISTING SUBSTRATE REPAIR AREAS
SECOND FLOOR

ROOM NUMBER	ROOM NAME	SQFT OF REPAIR	SUBSTRATE
B2	CORRIDOR/STAIR	1,325 SF	PLASTER
D2	CORRIDOR	460 SF	PLASTER
--	BOY'S TOILET	10 SF	GYP. BOARD
203	TEACHER'S ROOM	15 SF	PLASTER
203B	BOY'S TOILET	15 SF	PLASTER
204	CLASSROOM	80 SF	PLASTER
205	CLASSROOM	100 SF	PLASTER
206	CLASSROOM	100 SF	PLASTER
207	CLASSROOM	100 SF	PLASTER
208	CLASSROOM	80 SF	PLASTER
209	CLASSROOM	135 SF	PLASTER
210	CLASSROOM	100 SF	PLASTER
211	CLASSROOM	135 SF	PLASTER
212	CLASSROOM	100 SF	PLASTER
213	CLASSROOM	275 SF	PLASTER
213A	GIRL'S TOILET	20 SF	PLASTER
219	FACULTY	50 SF	PLASTER
A2	CORRIDOR	50 SF	PLASTER
1	STAIR	440 SF	PLASTER
2	STAIR	440 SF	PLASTER
	TOTALS	±4,030 SF	

EXISTING SUBSTRATE REPAIR AREAS
THIRD FLOOR

ROOM NUMBER	ROOM NAME	SQFT OF REPAIR	SUBSTRATE
300	SGI	100 SF	PLASTER
301A	BOY'S TOILET	20 SF	PLASTER
301	CLASSROOM	450 SF	PLASTER
302	CLASSROOM	100 SF	PLASTER
303	CLASSROOM	245 SF	PLASTER
304	CLASSROOM	125 SF	PLASTER
305	CLASSROOM	210 SF	PLASTER
306	CLASSROOM	295 SF	PLASTER
307	CLASSROOM	335 SF	PLASTER
308	CLASSROOM	100 SF	PLASTER
309	GIRL'S TOILET	200 SF	PLASTER
310	CLASSROOM	150 SF	PLASTER
312	SGI	100 SF	PLASTER
A3	CORRIDOR	150 SF	PLASTER
1	STAIR	555 SF	PLASTER
2	STAIR	555 SF	PLASTER
	TOTALS	±3,690 SF	

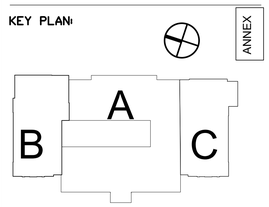
SUBSTRATE REPAIR NOTES:

ALL REPAIR WORK TO BE BASE BID.

ALL WORK TO BE PERFORMED IN ACCORDANCE WITH SPECIFICATION SECTION 090210 MAINTENANCE OF PLASTER.

PHOTOS INCLUDED FOR INFORMATION ONLY, ADDITIONAL AREAS OF REPAIR ARE REQUIRED AS SHOWN ON EXISTING SUBSTRATE REPAIR TABLES ON A-107 AND A-108.

KEY PLAN:



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Drawing Information:
Project No: 25.024
Date: 04/24/25
Drawn By: TC
Checked By: KG

Sheet Name:
SUBSTRATE REPAIR SCHEDULE 'B'

Sheet No:
A-108
Sheet 0 of 000

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GENERAL ELEVATION NOTES:

POWER WASHING NOTE

Entire exterior facade to be thoroughly power washed/ cleaned including but not limited to all brick, terracotta, cast stone sills, louvers etc. Existing courtyard elevations, concrete slab to be thoroughly power washed and all over grown vegetation removed. Refer the Specification Section 040110 Masonry Cleaning for additional information.

WINDOW CLEANING NOTE

Clean existing windows and frames using mild detergent and warm water (90–140°F). Use only non-abrasive tools such as soft cloths, squeegees, and soft-bristle brushes. Do not use razor blades, abrasive pads, or harsh chemicals. Avoid high-pressure washing; low pressure only if required and kept away from seals and glazing joints. Protect adjacent materials during cleaning. Clean glass, frames, and sills to a uniform, streak-free condition.

ELEVATION KEY NOTES:

1 REMOVE ALL EXISTING LIGHTS, EXTERIOR FIXTURES, SECURITY CAMERAS AND EXISTING ELECTRICAL DEVICES. PATCH AND REPAIR HOLES AS NECESSARY. SEE ELECTRICAL PLANS FOR MORE INFORMATION.

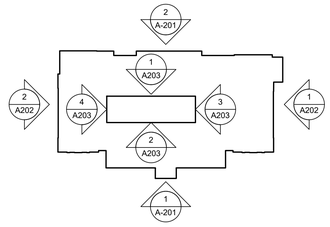
2 NEW SECURITY CAMERA LOCATION. SEE ELECTRICAL PLANS FOR MORE INFORMATION.

3 REMOVE EXISTING SECURITY CAMERA. SEE ELECTRICAL PLANS FOR MORE INFORMATION.

4A NEW EXTERIOR LIGHT FIXTURE IN EXISTING LOCATION. PATCH EXISTING WALL IF REQUIRED. REFER TO ELECTRICAL PLANS FOR MORE INFORMATION.

4B NEW EXTERIOR LIGHT FIXTURE IN NEW LOCATION. REFER TO ELECTRICAL PLANS FOR MORE INFORMATION.

5 NEW LOUVER OPENING. REFER TO DETAIL 4/A-721. REMOVE PORTION OF EXISTING BRICK VENEER ON CMU WALL. REFER TO MECHANICAL PLANS FOR MORE INFORMATION.



N **KEY PLAN**
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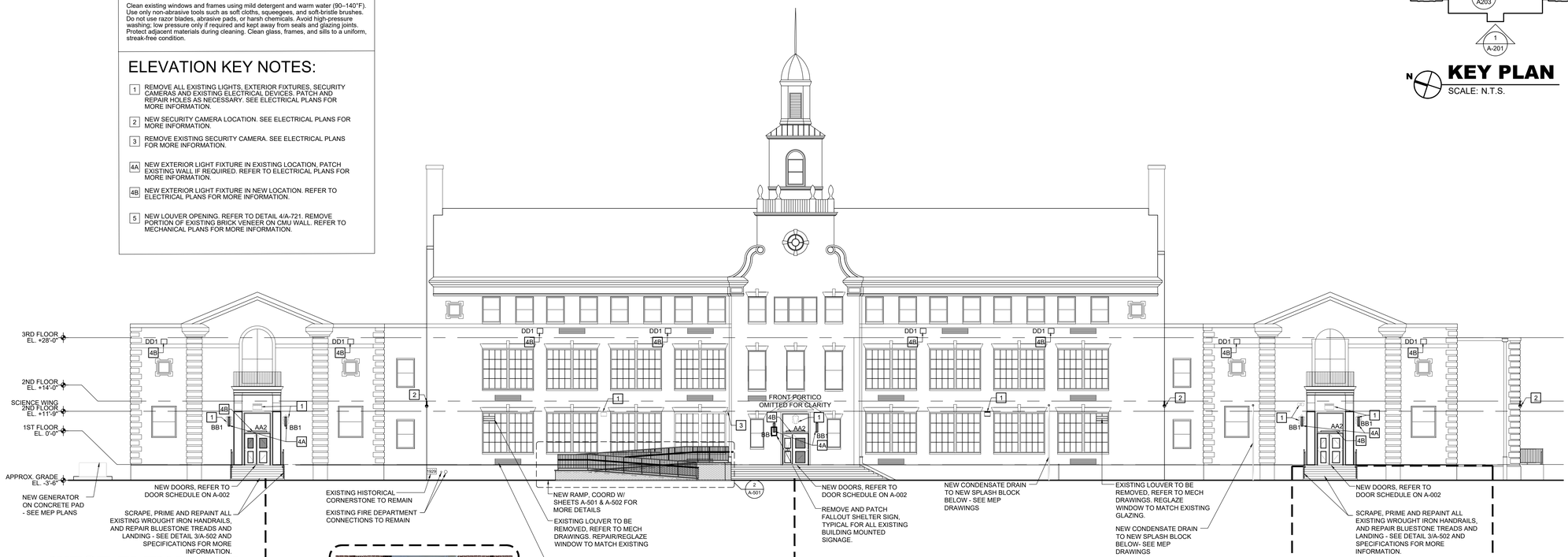


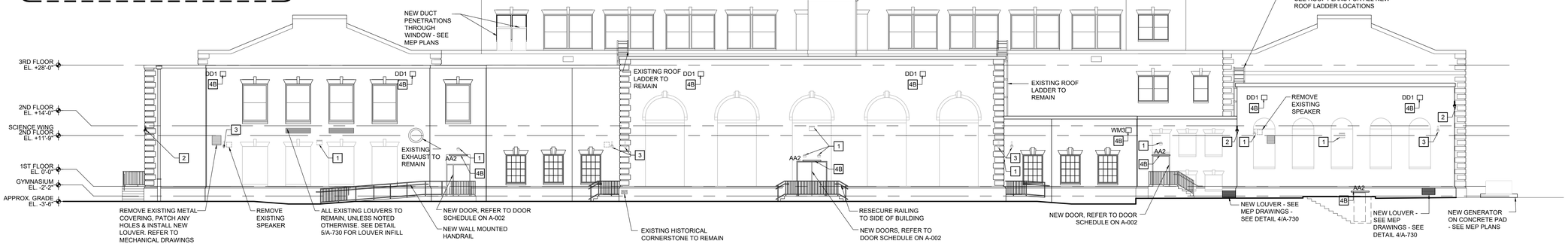
1 WEST ELEVATION
SCALE: 3/32" = 1'-0"

REPLACE EXISTING FRACTURED BLUESTONE TREAD AT AREA OF EXISTING RAILING EMBEDMENT. APPROX. 6 LOCATIONS

REMOVE EXISTING GROUT AND JOINT SEALANT REPAIRS AT STONE TREADS. POINT AND TOOL STONE TREADS WITH NEW GROUT

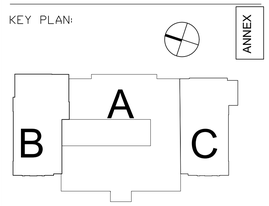
REPLACE EXISTING FRACTURED BLUESTONE TREAD AT AREA OF EXISTING RAILING EMBEDMENT. APPROX. 6 LOCATIONS

REMOVE EXISTING GROUT AND JOINT SEALANT REPAIRS AT STONE TREADS. POINT AND TOOL STONE TREADS WITH NEW GROUT



2 EAST ELEVATION
SCALE: 3/32" = 1'-0"

KEY PLAN:



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DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date: 04/09/2025
Drawn By: TC
Checked By: KG

Sheet Name:
WEST & EAST ELEVATIONS

Sheet No:
A-201
Sheet 0 of 000

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P:\2025\25.024 ROWAN GIS ROUND 5\DRAWINGS\CONDOCS\A2DDS ELEVATIONS & BUILDING SECTIONS\

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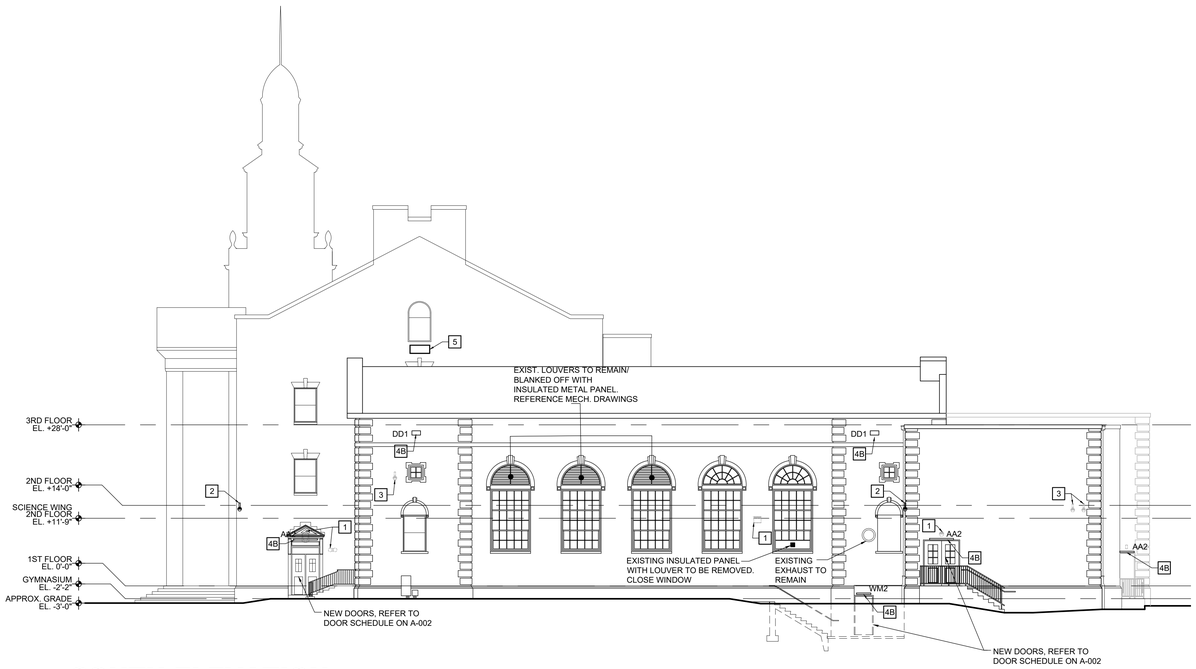


1 SOUTH ELEVATION

SCALE: 3/32" = 1'-0"

2 NORTH ELEVATION

SCALE: 3/32" = 1'-0"

GENERAL ELEVATION NOTES:

POWER WASHING NOTE

Entire exterior facade to be thoroughly power washed/ cleaned including but not limited to all brick, terracotta, cast stone sills, louvers etc. Existing courtyard elevations, concrete slab to be thoroughly power washed and all over grown vegetation removed. Refer the Specification Section 040110 Masonry Cleaning for additional information.

WINDOW CLEANING NOTE

Clean existing windows and frames using mild detergent and warm water (90–140°F). Use only non-abrasive tools such as soft cloths, squeegees, and soft-bristle brushes. Do not use razor blades, abrasive pads, or harsh chemicals. Avoid high-pressure washing; low pressure only if required and kept away from seals and glazing joints. Protect adjacent materials during cleaning. Clean glass, frames, and sills to a uniform, streak-free condition.

ELEVATION KEY NOTES:

1 REMOVE ALL EXISTING LIGHTS, EXTERIOR FIXTURES, SECURITY CAMERAS AND EXISTING ELECTRICAL DEVICES. PATCH AND REPAIR HOLES AS NECESSARY. SEE ELECTRICAL PLANS FOR MORE INFORMATION.

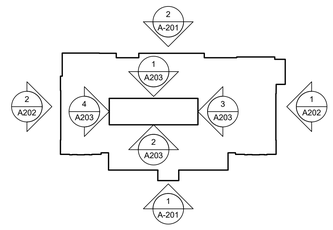
2 NEW SECURITY CAMERA LOCATION. SEE ELECTRICAL PLANS FOR MORE INFORMATION.

3 REMOVE EXISTING SECURITY CAMERA. SEE ELECTRICAL PLANS FOR MORE INFORMATION.

4A NEW EXTERIOR LIGHT FIXTURE IN EXISTING LOCATION. PATCH EXISTING WALL IF REQUIRED. REFER TO ELECTRICAL PLANS FOR MORE INFORMATION.

4B NEW EXTERIOR LIGHT FIXTURE IN NEW LOCATION. REFER TO ELECTRICAL PLANS FOR MORE INFORMATION.

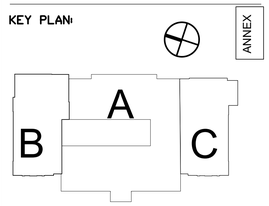
5 NEW LOUVER OPENING. REFER TO DETAIL 4/A-721. REMOVE PORTION OF EXISTING BRICK VENEER ON CMU WALL. REFER TO MECHANICAL PLANS FOR MORE INFORMATION.



N **KEY PLAN**

SCALE: N.T.S.

KEY PLAN:



No.	Date	Description
	12/08/25	OUT TO BID
	12/03/25	DCA Submission

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NJ RA AI 15023, NY RA 027416, PA RA 405474

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Glassboro, NJ 08028

Project:

Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:

Project No: 25.024
Date: 04/09/2025
Drawn By: TC
Checked By: KG

Sheet Name:

NORTH & SOUTH ELEVATIONS

Sheet No:

A-202

Sheet 0 of 000

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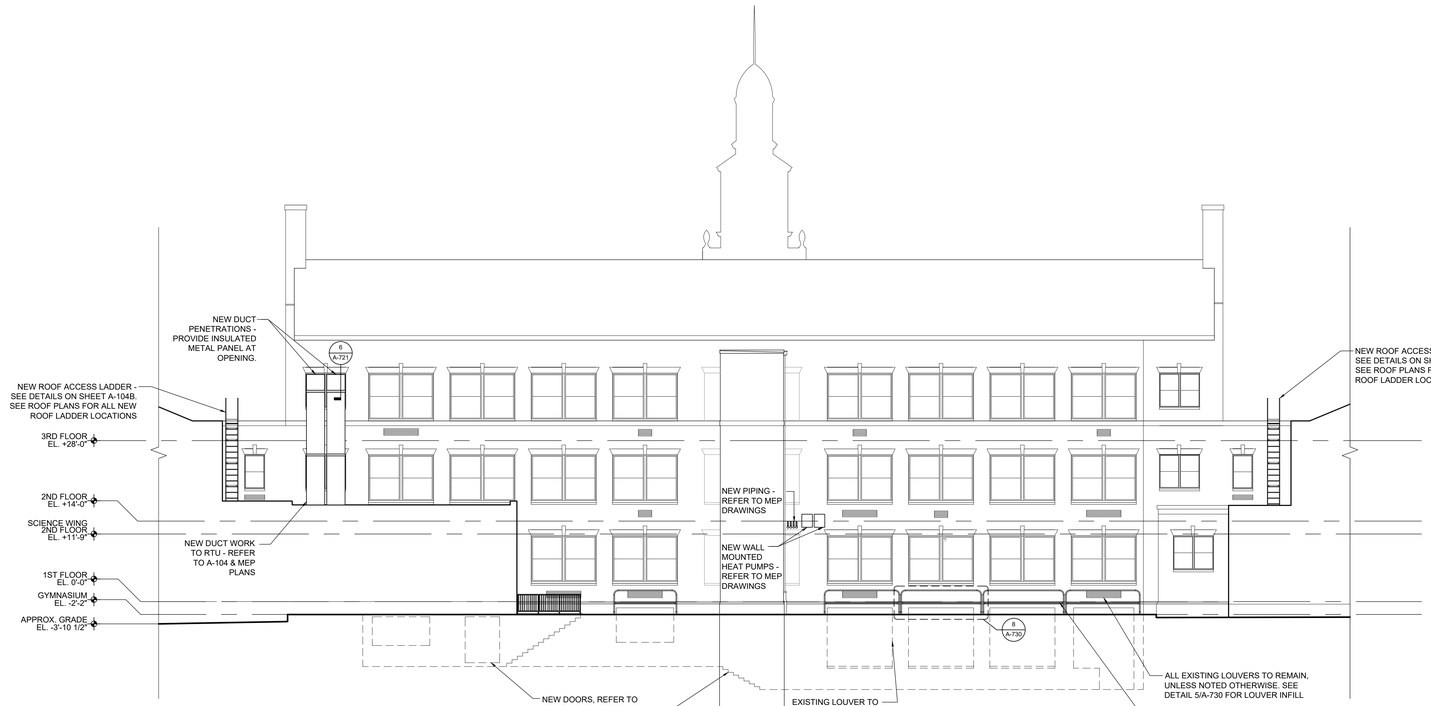
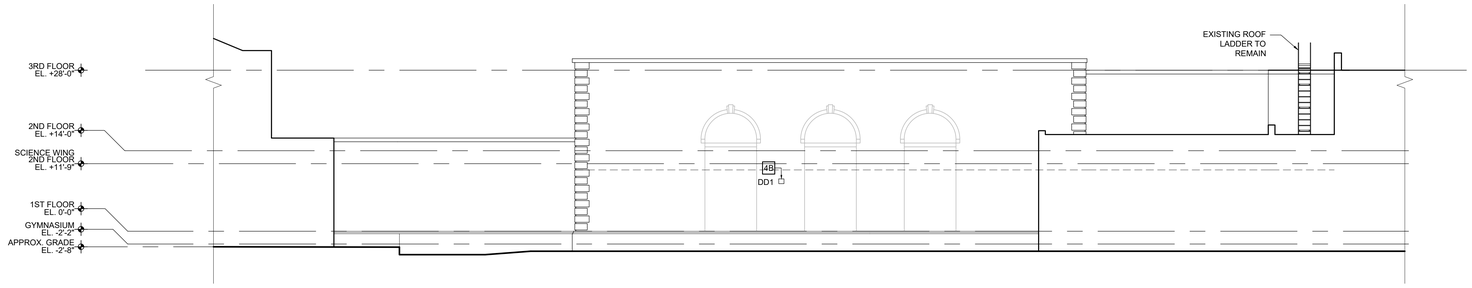


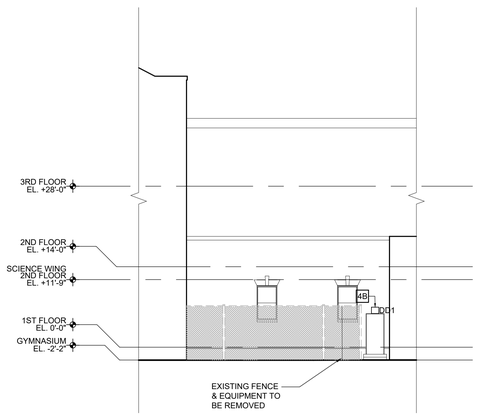
1 EAST ELEVATION - COURTYARD

SCALE: 3/32" = 1'-0"



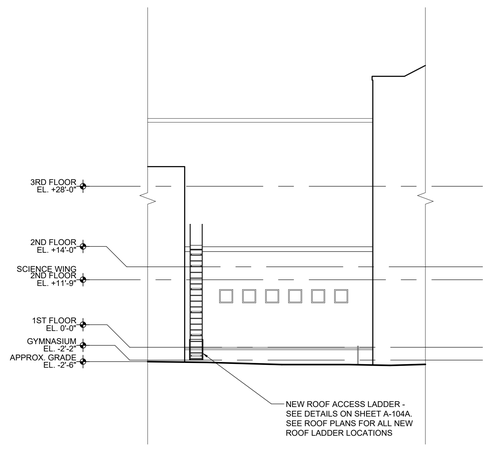
2 WEST ELEVATION - COURTYARD

SCALE: 3/32" = 1'-0"



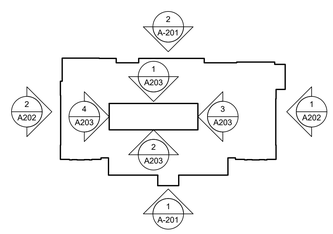
3 SOUTH ELEVATION - COURTYARD

SCALE: 3/32" = 1'-0"



4 NORTH ELEVATION - COURTYARD

SCALE: 3/32" = 1'-0"



N

KEY PLAN

SCALE: N.T.S.

GENERAL ELEVATION NOTES:

POWER WASHING NOTE

Entire exterior facade to be thoroughly power washed/ cleaned including but not limited to all brick, terracotta, cast stone sills, louvers etc. Existing courtyard elevations, concrete slab to be thoroughly power washed and all over grown vegetation removed. Refer the Specification Section 040110 Masonry Cleaning for additional information.

WINDOW CLEANING NOTE

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ELEVATION KEY NOTES:

1 REMOVE ALL EXISTING LIGHTS, EXTERIOR FIXTURES, SECURITY CAMERAS AND EXISTING ELECTRICAL DEVICES. PATCH AND REPAIR HOLES AS NECESSARY. SEE ELECTRICAL PLANS FOR MORE INFORMATION.

2 NEW SECURITY CAMERA LOCATION. SEE ELECTRICAL PLANS FOR MORE INFORMATION.

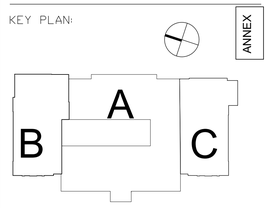
3 REMOVE EXISTING SECURITY CAMERA. SEE ELECTRICAL PLANS FOR MORE INFORMATION.

4A NEW EXTERIOR LIGHT FIXTURE IN EXISTING LOCATION. PATCH EXISTING WALL IF REQUIRED. REFER TO ELECTRICAL PLANS FOR MORE INFORMATION.

4B NEW EXTERIOR LIGHT FIXTURE IN NEW LOCATION. REFER TO ELECTRICAL PLANS FOR MORE INFORMATION.

5 NEW LOUVER OPENING. REFER TO DETAIL 4/A-721. REMOVE PORTION OF EXISTING BRICK VENEER ON CMU WALL. REFER TO MECHANICAL PLANS FOR MORE INFORMATION.

KEY PLAN:



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	12/03/25	DCA Submission

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Glassboro, NJ 08028

Project:

Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:

Project No: 25.024
Date: 04/09/2025
Drawn By: TC
Checked By: KG

Sheet Name:

COURTYARD ELEVATIONS

Sheet No:

A-203

Sheet 0 of 000

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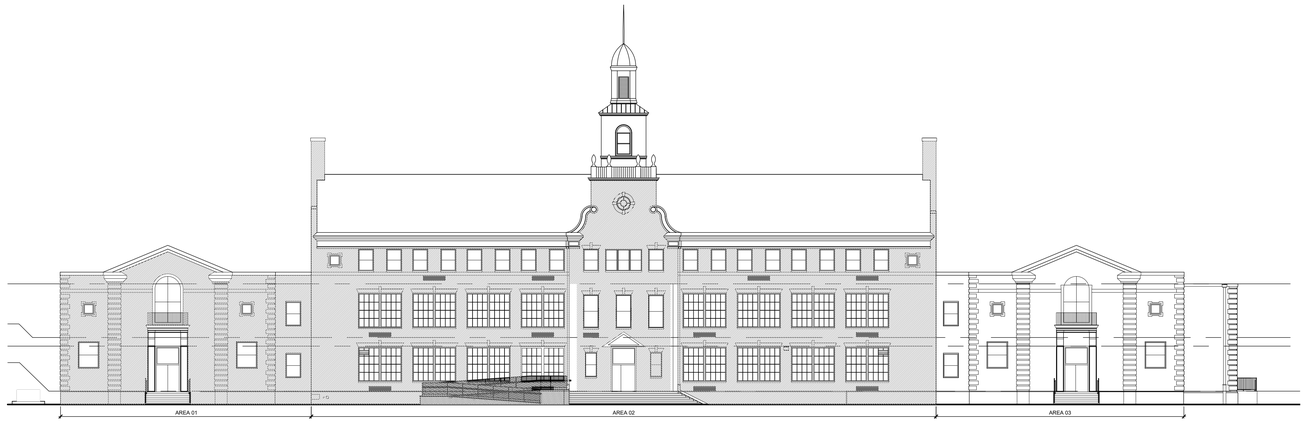
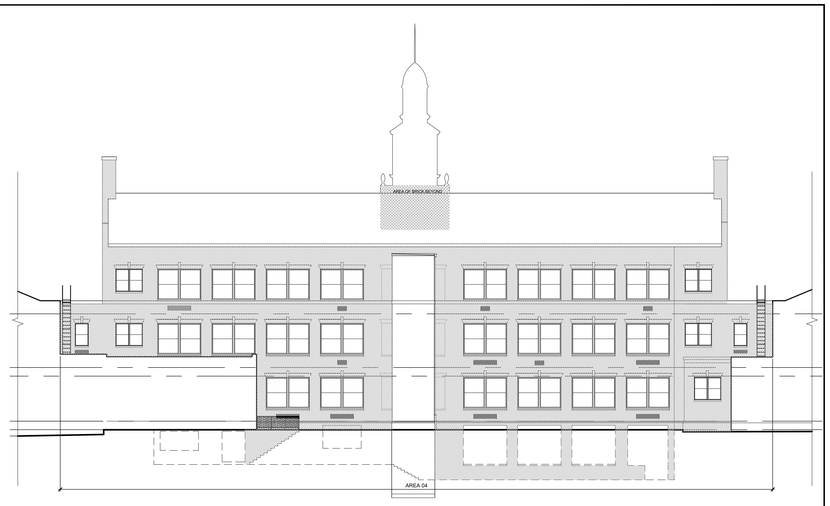


1 WEST ELEVATION
SCALE: 1/16" = 1'-0"



2 EAST ELEVATION - COURTYARD
SCALE: 1/16" = 1'-0"

3 SOUTH ELEVATION
SCALE: 1/16" = 1'-0"

4 NORTH ELEVATION
SCALE: 1/16" = 1'-0"

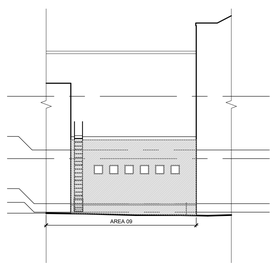
APPROXIMATE AREA OF BRICK TO BE RE-POINTED

MARK	AREA	FACADE
01	+/- 1910 SQ FT	WEST ELEVATION
02	+/- 4400 SQ FT	WEST ELEVATION
03	N.I.C.	
04	+/- 4780 SQ FT	EAST COURTYARD ELEVATION
05	+/- 1660 SQ FT	NORTH ELEVATION
06	N.I.C.	NORTH ELEVATION
06A	N.I.C.	NORTH ELEVATION
07	+/- 1600 SQ FT	SOUTH ELEVATION
08	+/- 600 SQ FT	SOUTH ELEVATION
08A	+/- 1980 SQ FT	SOUTH ELEVATION
08B	N.I.C.	SOUTH ELEVATION
09	+/- 600 SQ FT	NORTH COURTYARD ELEVATION
10	+/- 665 SQ FT	SOUTH COURTYARD ELEVATION
11	N.I.C.	EAST ELEVATION
11A	N.I.C.	EAST ELEVATION
12	N.I.C.	EAST ELEVATION
12A	N.I.C.	EAST ELEVATION
TOTAL	+/- 18,195 SQ FT	

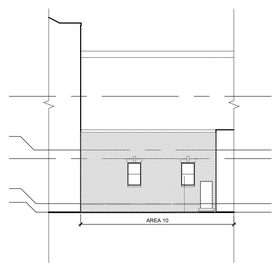
MASONRY NOTES:

REFER TO SPECIFICATION SECTION 040120 MASONRY RESTORATION FOR ADDITIONAL INFORMATION.

ALL REPOINTING SHOWN ON SHEET A-204 IS TO BE INCLUDED IN BASE BID.

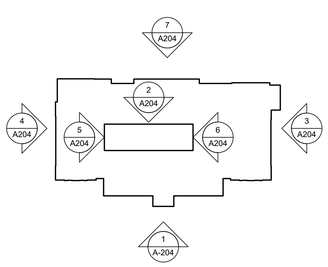


5 NORTH ELEVATION - COURTYARD
SCALE: 1/16" = 1'-0"



6 SOUTH ELEVATION - COURTYARD
SCALE: 1/16" = 1'-0"

7 EAST ELEVATION
SCALE: 1/16" = 1'-0"



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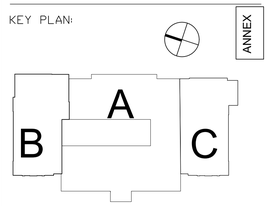
KEY PLAN
SCALE: N.T.S.

KEY PLAN:



No.	Date	Description
	12/08/25	OUT TO BID
	12/03/25	DCA Submission

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Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date: 04/09/2025
Drawn By: TC
Checked By: KG

Sheet Name:
EXTERIOR ENVELOPE WORK

Sheet No:
A-204
Sheet 0 of 000

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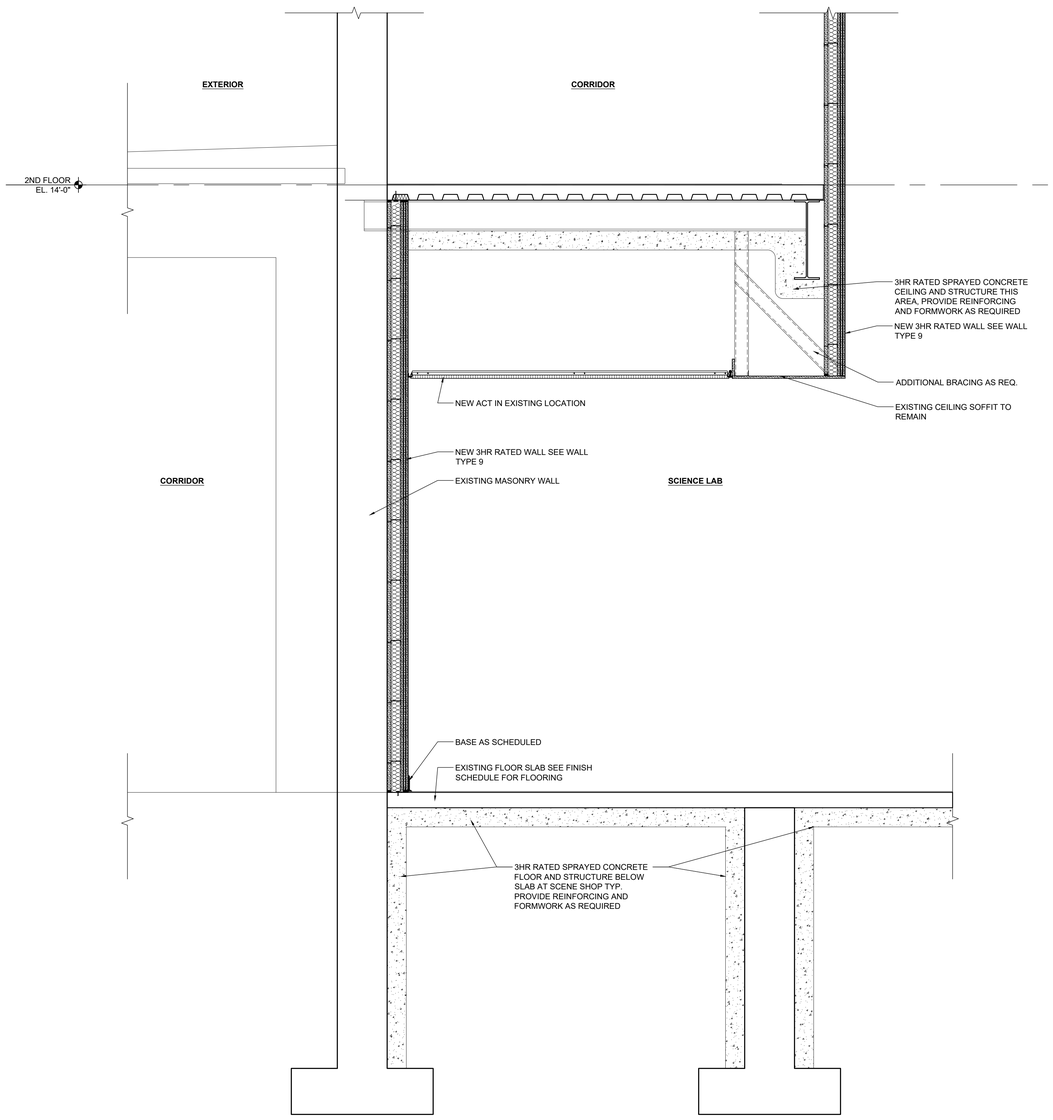
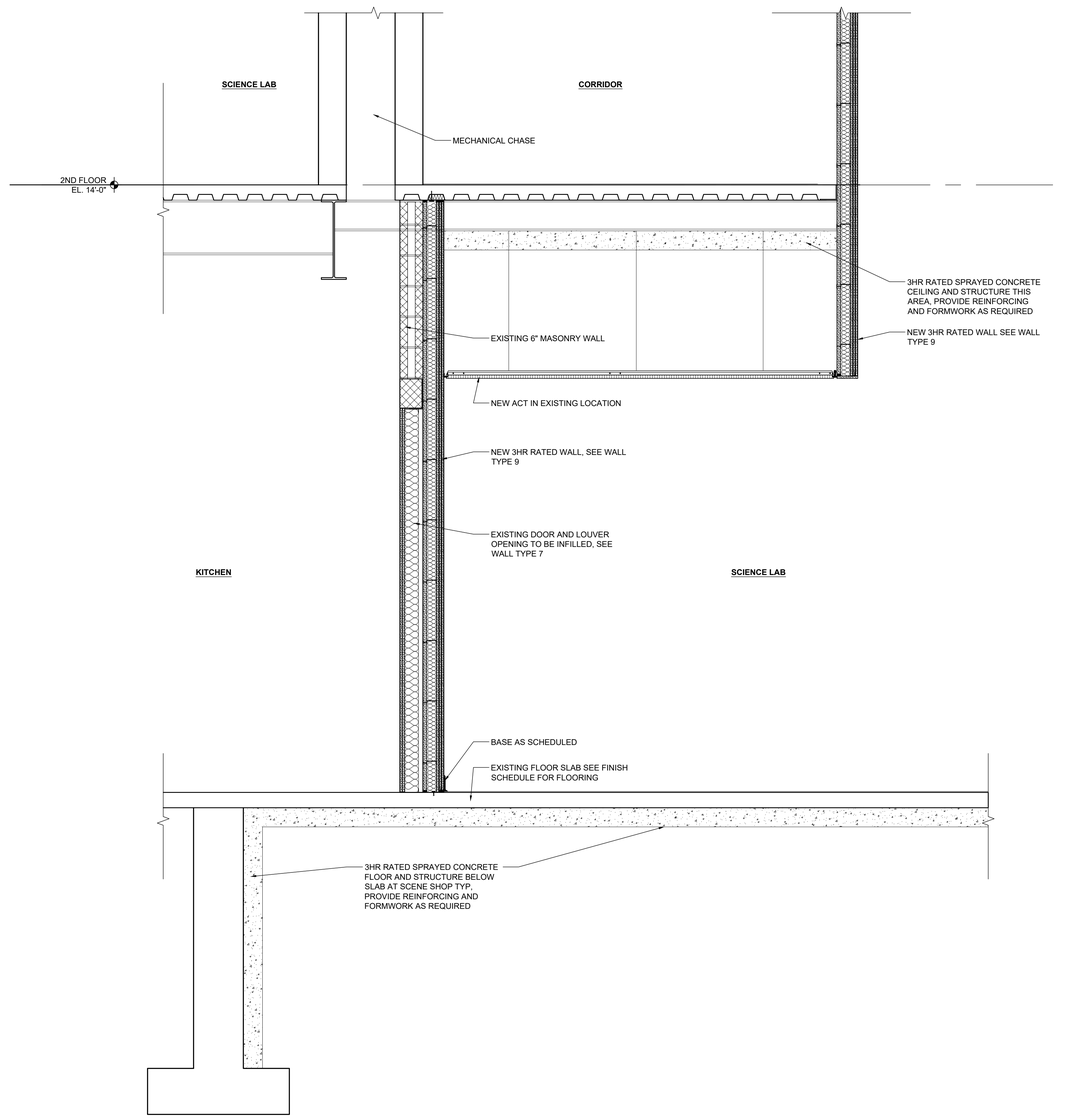


1 SECTION THRU SCENE SHOP AND CORRIDOR

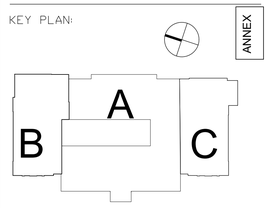
SCALE: 3/4" = 1'-0"



2 SECTION THRU SCENE SHOP AND KITCHEN

SCALE: 3/4" = 1'-0"

KEY PLAN:



No.	Date	Description
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Drawing Information:
Project No: 25.024
Date: 04/09/2025
Drawn By: TC
Checked By: KG

Sheet Name:
SCENE SHOP SECTIONS

Sheet No:
A-205
Sheet 0 of 000

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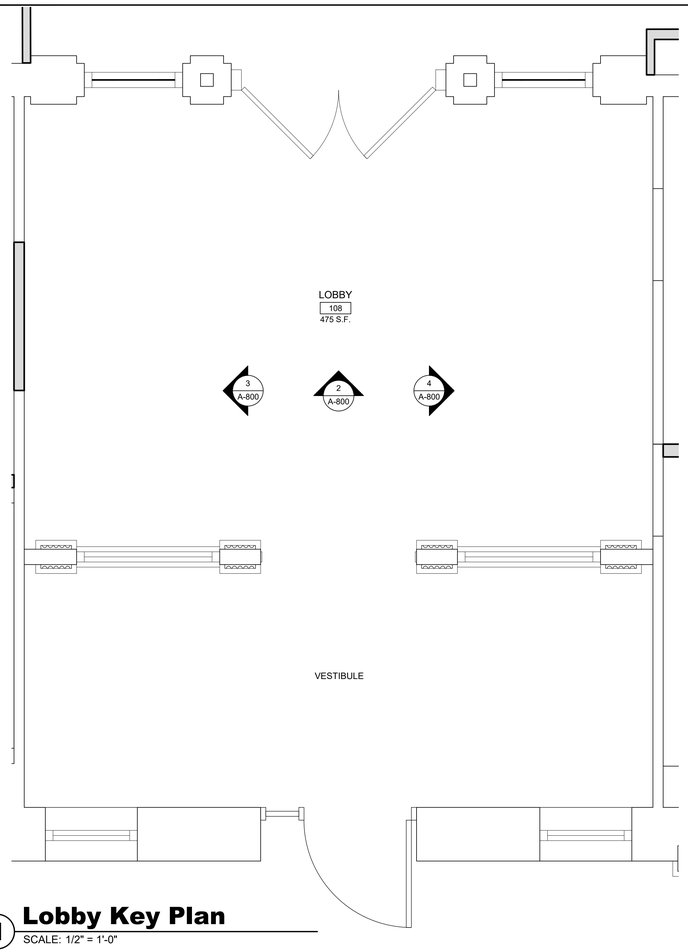
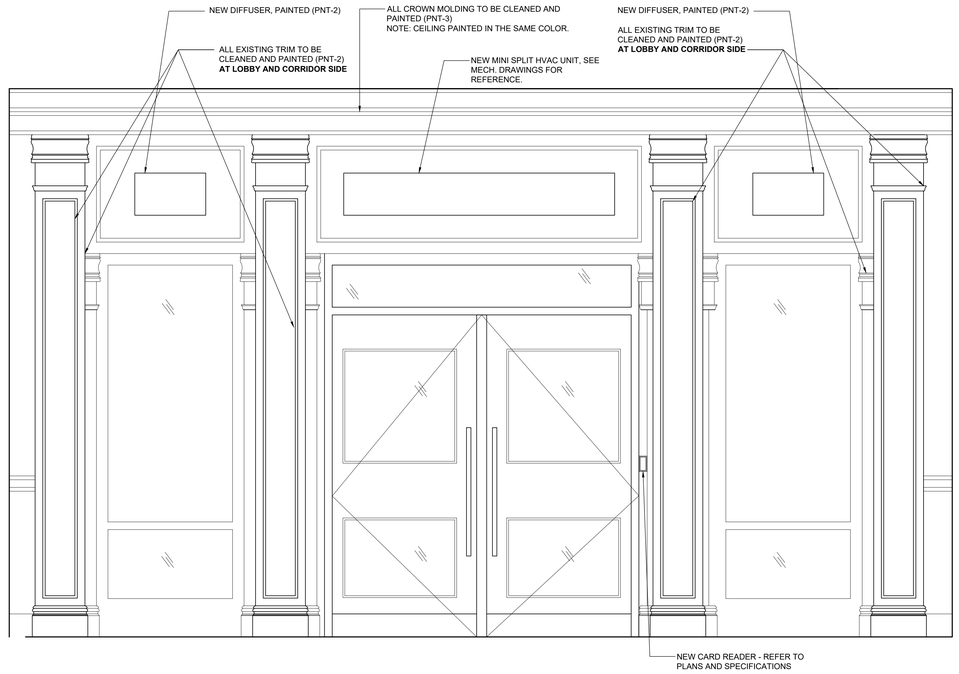


1 Lobby Key Plan

SCALE: 1/2" = 1'-0"



2 Lobby Elevation

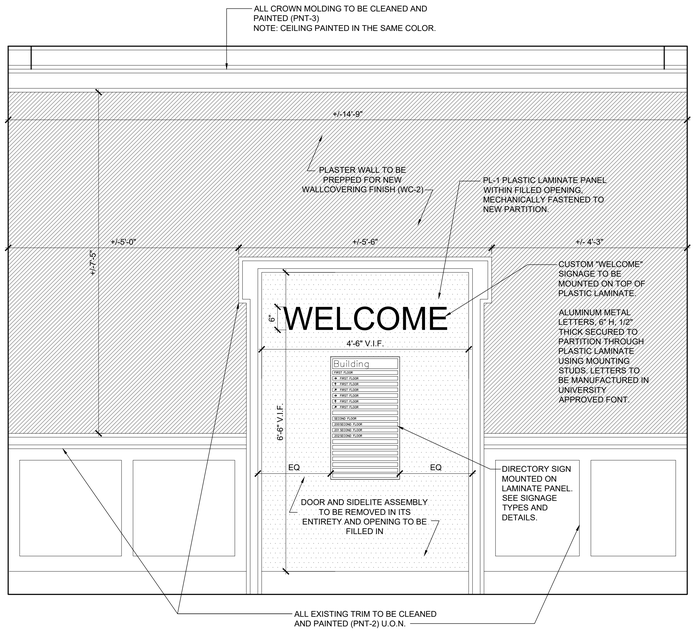
SCALE: 3/4" = 1'-0"

LEGEND

HATCH INDICATES AREA IN ELEVATION OF NEW TACK BOARD TO BE INSTALLED ON TOP OF INFILLED OPENING. SEE TB-1 FINISH SPECIFICATION ON SHEET A-906.

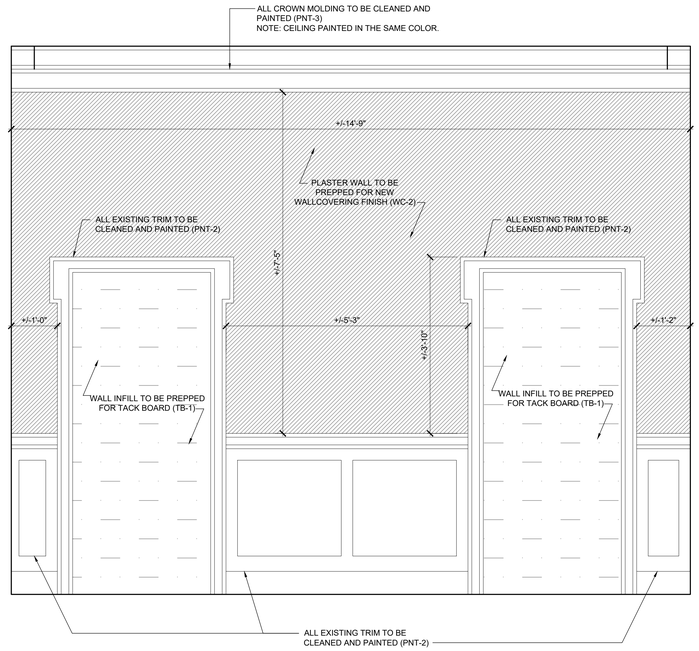
HATCH INDICATES AREA IN ELEVATION OF HIGH PRESSURE PLASTIC LAMINATE (PL-1) INSTALLED ON TOP OF INFILLED OPENING. SEE PL-1 FINISH SPECIFICATION ON SHEET A-906.

HATCH INDICATES AREA IN ELEVATION OF TYPE II VINYL WALLCOVERING (WC-2) TO BE INSTALLED.



3 Lobby Elevation

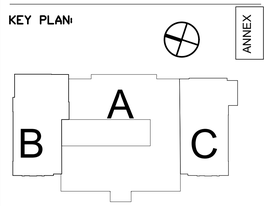
SCALE: 3/4" = 1'-0"



4 Lobby Elevation

SCALE: 3/4" = 1'-0"

KEY PLAN:



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BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:

Project No: 25.024
Date: 06/16/2022
Drawn By: DC
Checked By:

Sheet Name:

INTERIOR ELEVATIONS

Sheet No:

A-300

Sheet 0 of 000

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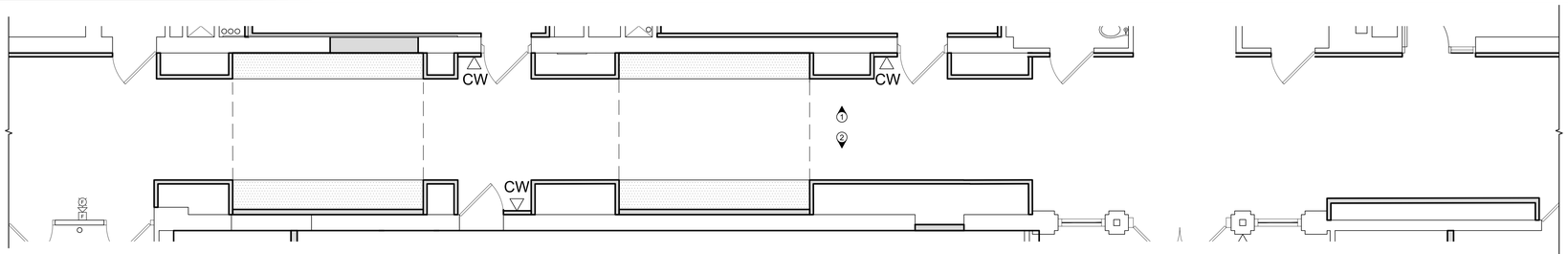
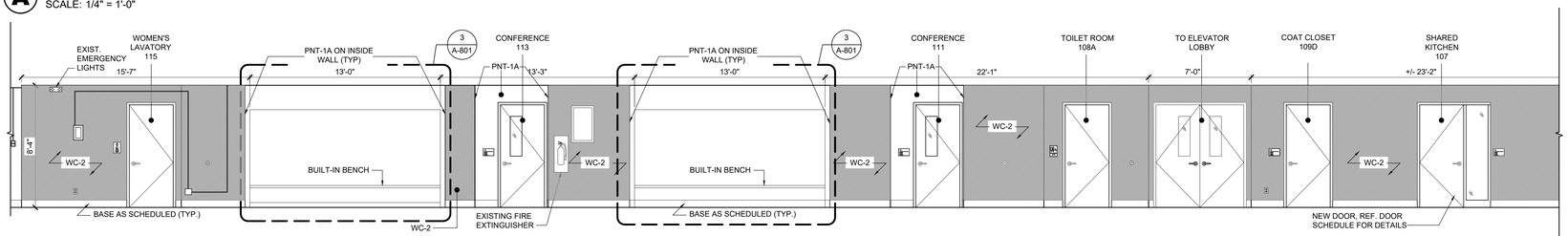


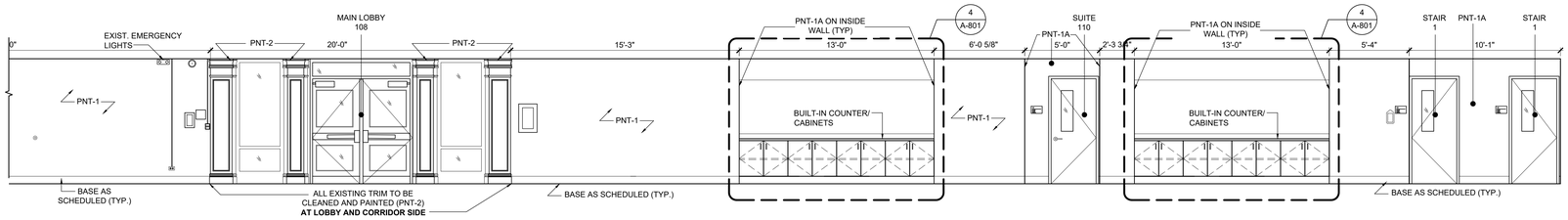
A FIRST FLOOR PLAN - A1 CORRIDOR (WEST)

SCALE: 1/4" = 1'-0"



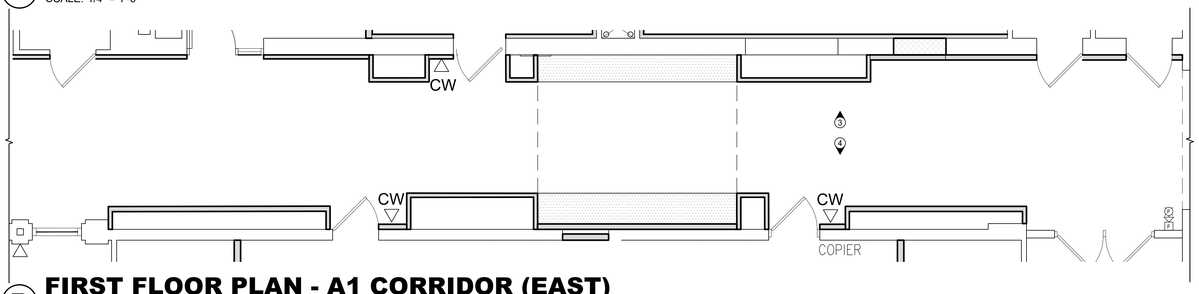
1 FIRST FLOOR ELEVATION - A1 CORRIDOR (WEST)

SCALE: 1/4" = 1'-0"



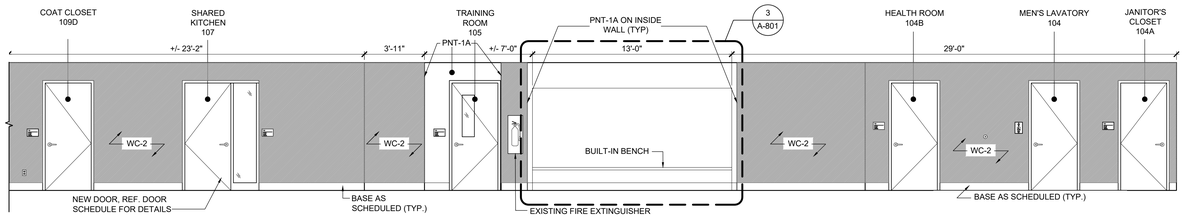
2 FIRST FLOOR ELEVATION - A1 CORRIDOR (WEST)

SCALE: 1/4" = 1'-0"



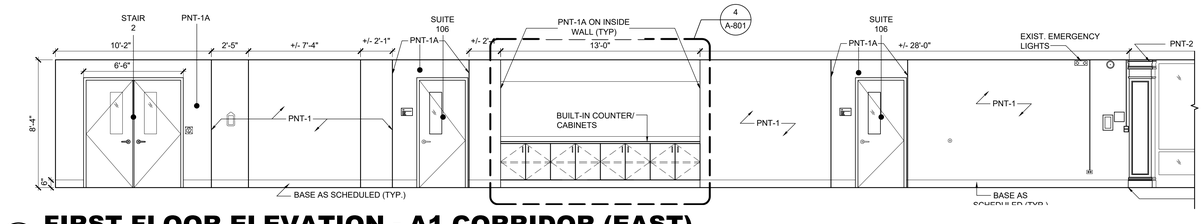
B FIRST FLOOR PLAN - A1 CORRIDOR (EAST)

SCALE: 1/4" = 1'-0"



3 FIRST FLOOR ELEVATION - A1 CORRIDOR (EAST)

SCALE: 1/4" = 1'-0"

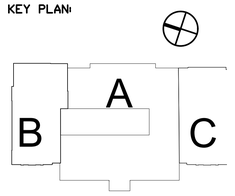


4 FIRST FLOOR ELEVATION - A1 CORRIDOR (EAST)

SCALE: 1/4" = 1'-0"

P:\2025\25-024 ROWAN GIS ROUND 5\DRAWINGS\CONDOCS\#3DOS INTERIOR DETAILED PLANS & ELEVATIONS\

KEY PLAN:



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Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea D
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date: 06/15/2025
Drawn By: TC
Checked By: KG

Sheet Name:
FIRST FLOOR CORRIDOR 1A INTERIOR ELEVATIONS

Sheet No:
A-301
Sheet 0 of 000

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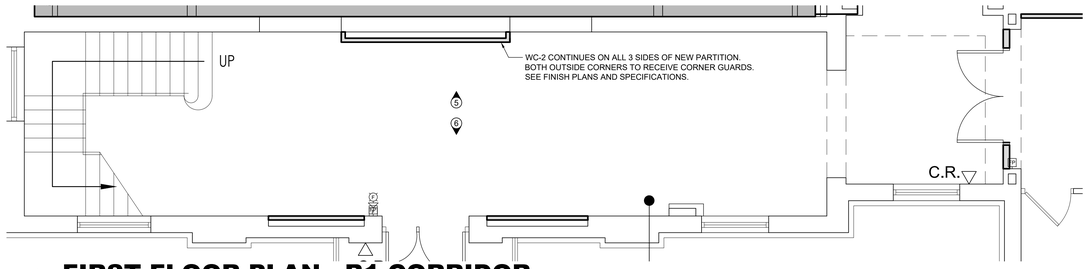
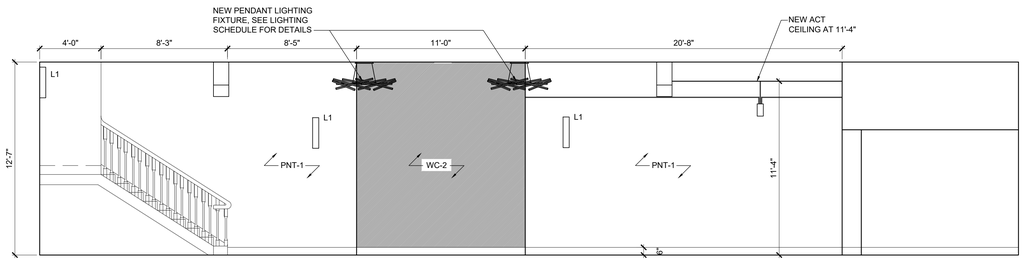


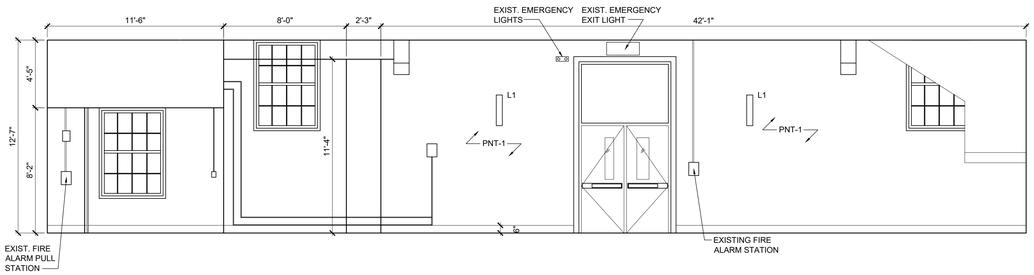
B FIRST FLOOR PLAN - B1 CORRIDOR

SCALE: 1/4" = 1'-0"



5 FIRST FLOOR ELEVATION - B1 CORRIDOR

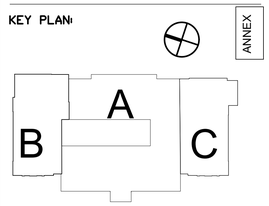
SCALE: 1/4" = 1'-0"



6 FIRST FLOOR ELEVATION - B1 CORRIDOR

SCALE: 1/4" = 1'-0"

KEY PLAN:



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Glassboro, NJ 08028

Project:

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BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:

Project No: 25.024
Date: 06/15/2025
Drawn By: TC
Checked By: KG

Sheet Name:

INTERIOR ELEVATIONS FIRST FLOOR, CORRIDOR 1A & 1B

Sheet No:

A-301A

Sheet 0 of 000

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ELEVATION A

ELEVATION B

ELEVATION C

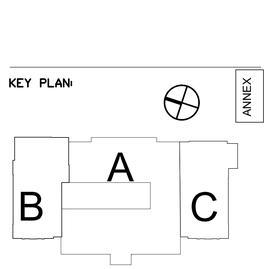
ELEVATION D

1 TRAINING RM 103 ELEVATIONS

SCALE: 1/4" = 1'-0"

2 TRAINING RM 103 PLAN

SCALE: 1/4" = 1'-0"



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Glassboro, NJ 08028

Drawing Information:

Project No: 25.024
Date: 06/15/2025
Drawn By: TC
Checked By: KG

Sheet Name:

INTERIOR ELEVATIONS FIRST FLOOR, CONFERENCE ROOMS

Sheet No:

A-301B

Sheet 0 of 000

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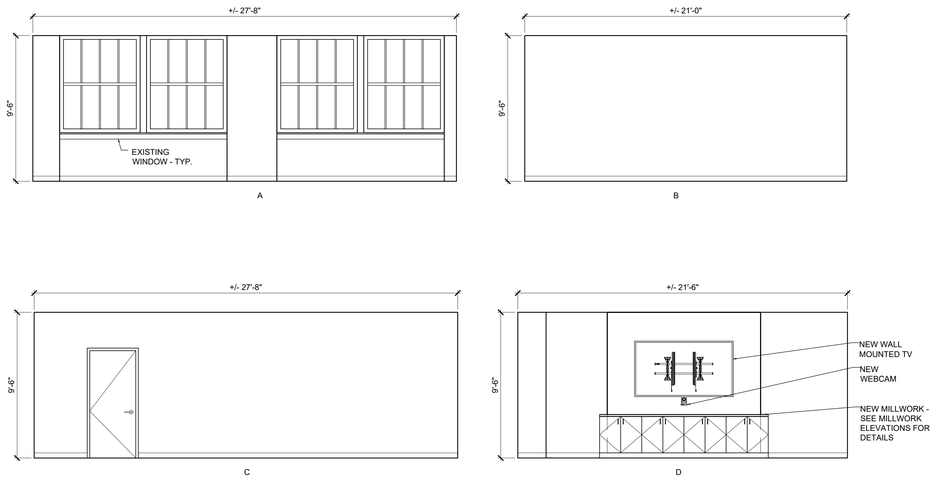
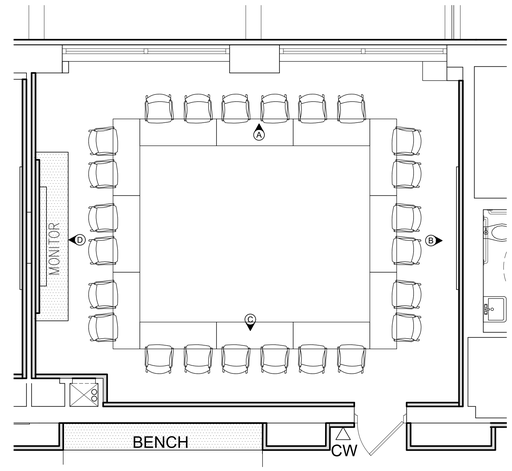


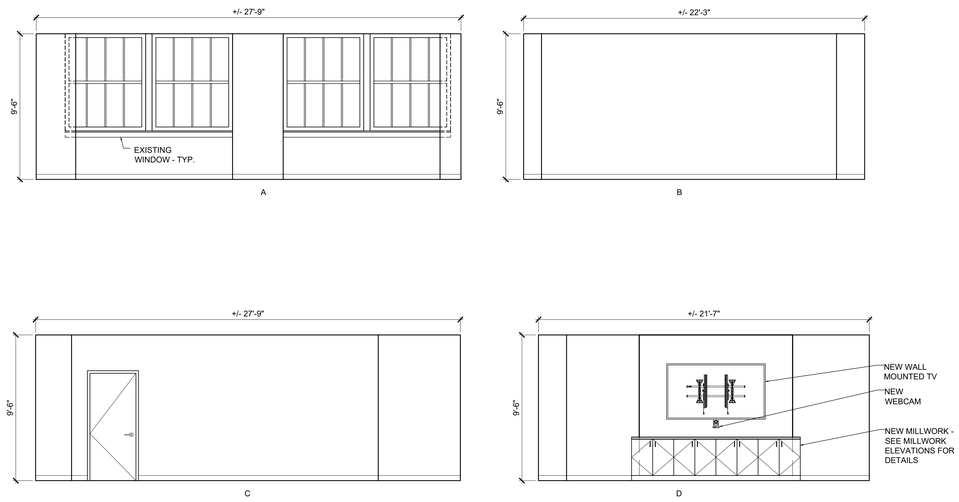
1 CONFERENCE RM 111 ELEVATIONS

SCALE: 1/4" = 1'-0"



3 CONFERENCE RM 111 PLAN

SCALE: 1/4" = 1'-0"



2 CONFERENCE RM 113 ELEVATIONS

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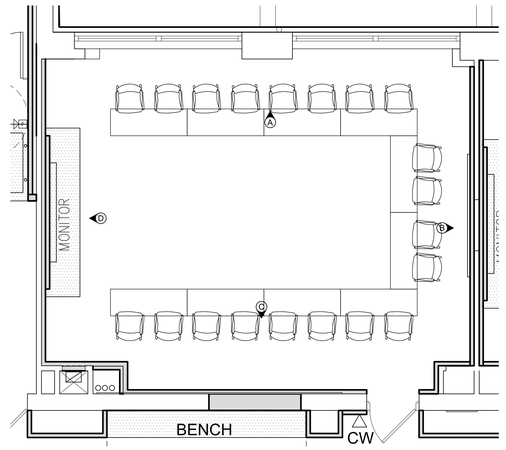
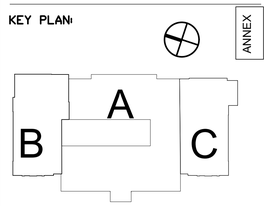


4 CONFERENCE RM 113 PLAN

SCALE: 1/4" = 1'-0"

KEY PLAN:



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Project:
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BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date: 06/15/2025
Drawn By: TC
Checked By: KG

Sheet Name:
INTERIOR ELEVATIONS FIRST FLOOR, CONFERENCE ROOMS

Sheet No:
A-301C
Sheet 0 of 000

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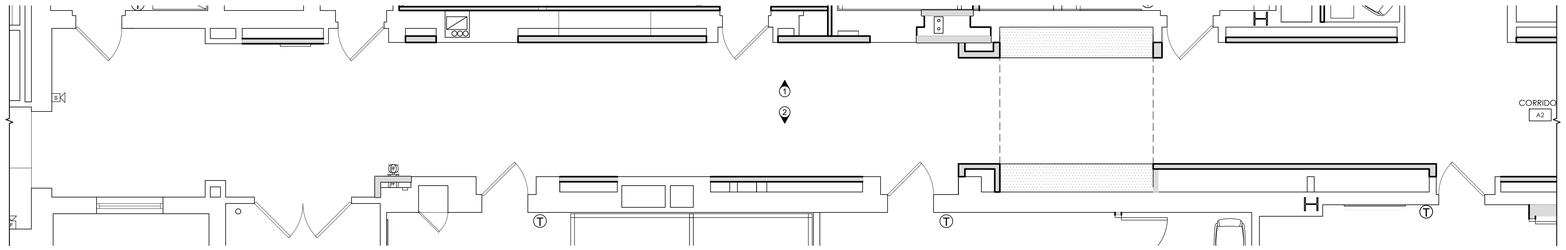
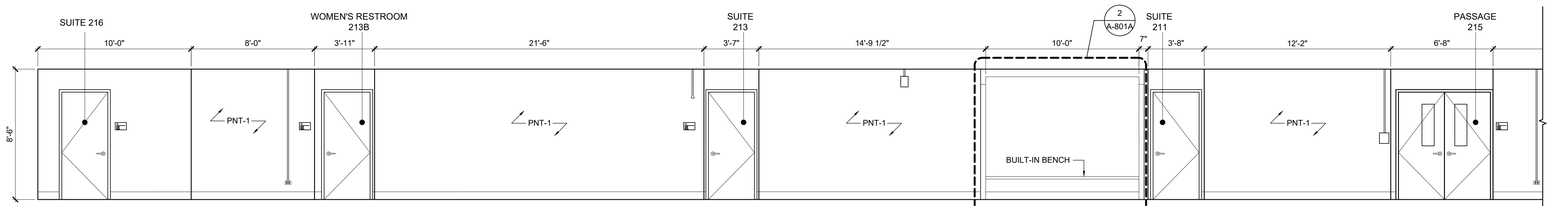
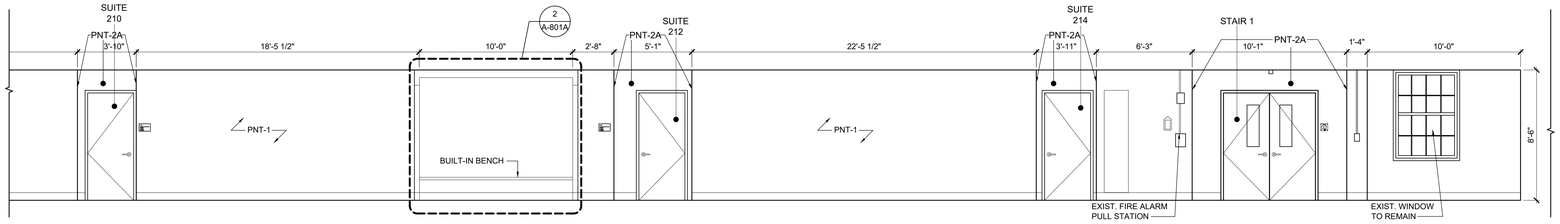


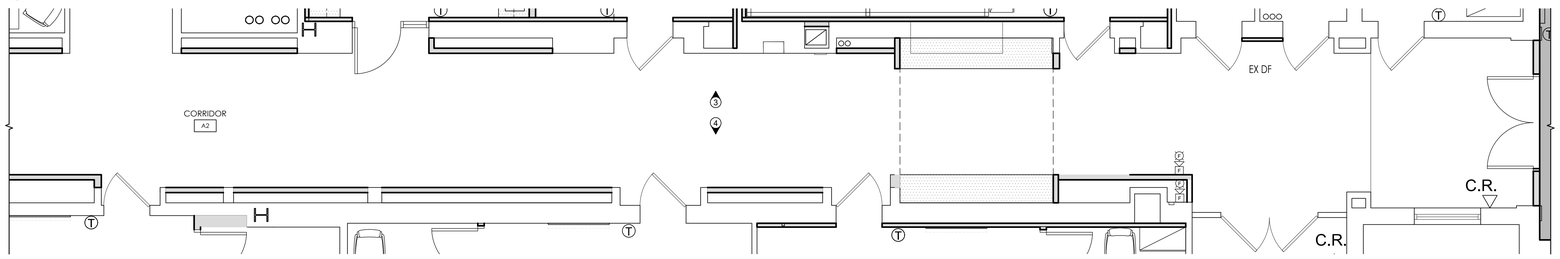
A SECOND FLOOR CORRIDOR A2
SCALE: 1/4" = 1'-0"



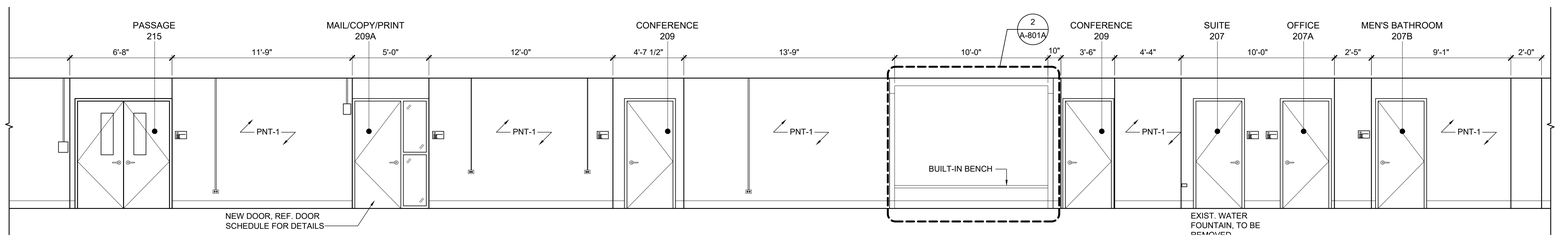
1 SECOND FLOOR CORRIDOR ELEVATION A2
SCALE: 1/4" = 1'-0"



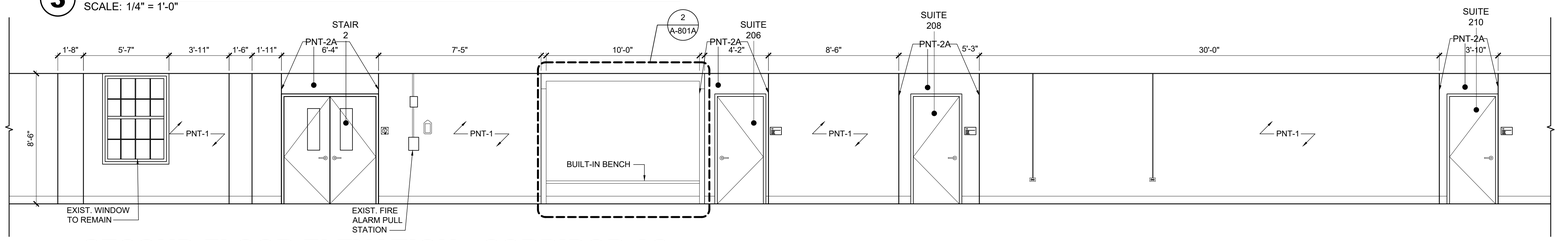
2 SECOND FLOOR CORRIDOR ELEVATION A2
SCALE: 1/4" = 1'-0"



B SECOND FLOOR CORRIDOR A2
SCALE: 1/4" = 1'-0"



3 SECOND FLOOR ELEVATION - CORRIDOR A2
SCALE: 1/4" = 1'-0"



4 SECOND FLOOR ELEVATION - CORRIDOR A2
SCALE: 1/4" = 1'-0"

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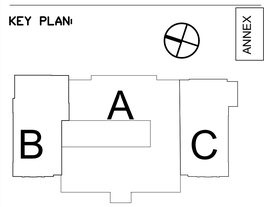
KEY PLAN:



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Glassboro, NJ 08028

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BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date: 06/15/2025
Drawn By: LM
Checked By: KG

Sheet Name:
SECOND FLOOR INTERIOR ELEVATIONS

Sheet No:
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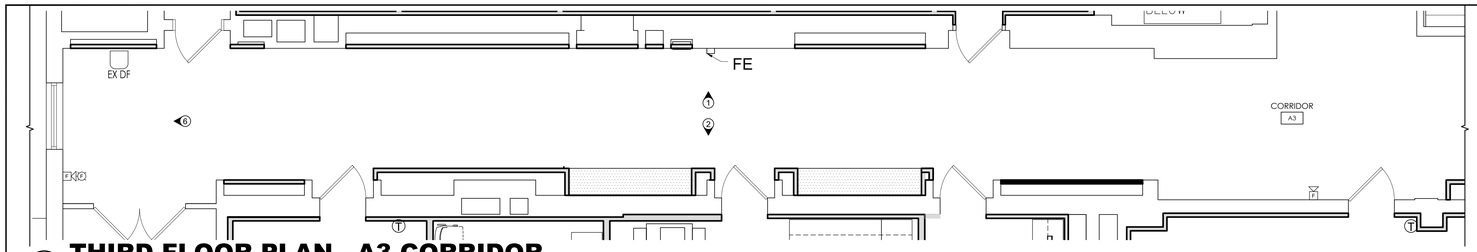
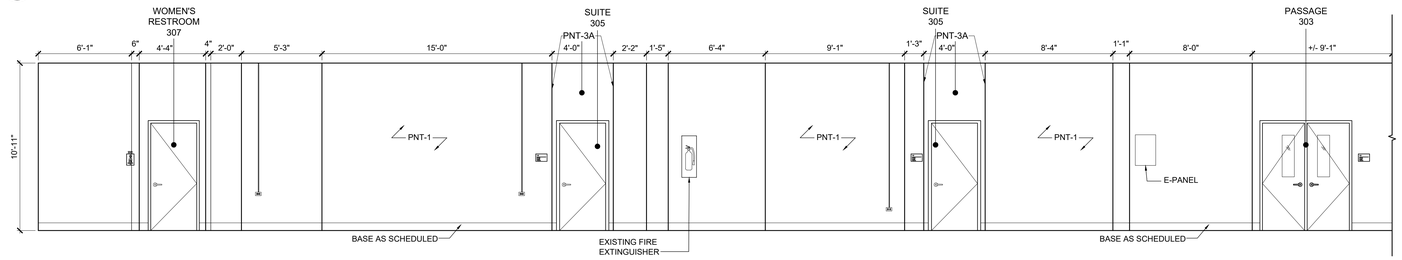


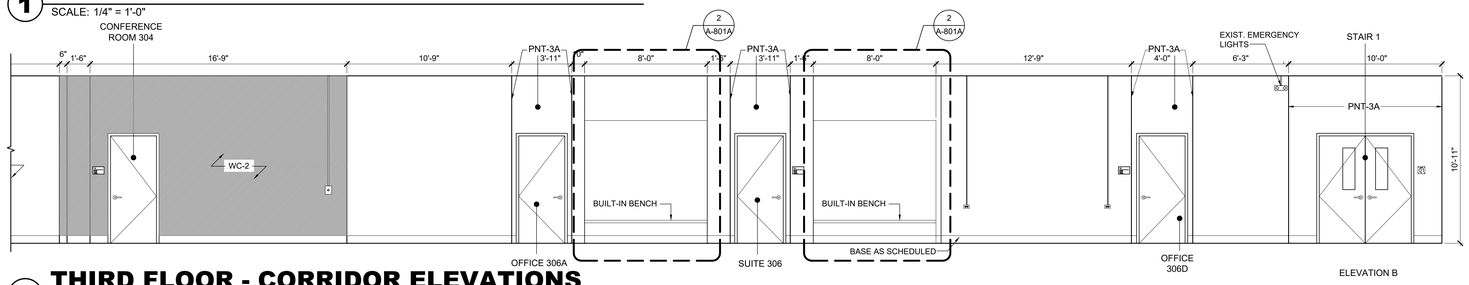
A THIRD FLOOR PLAN - A3 CORRIDOR

SCALE: 1/4" = 1'-0"



1 THIRD FLOOR - CORRIDOR ELEVATIONS

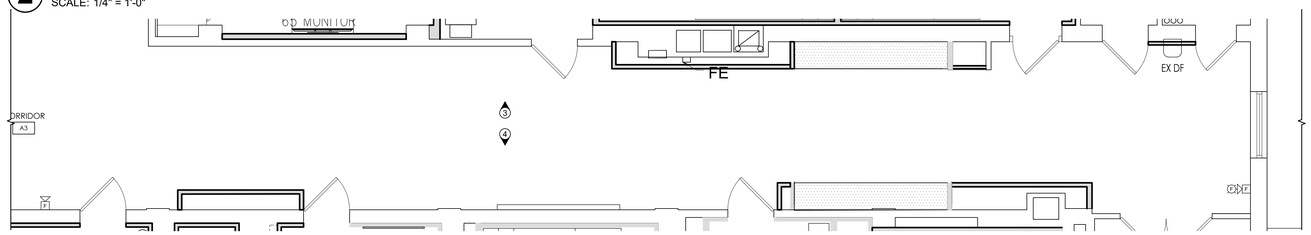
SCALE: 1/4" = 1'-0"



ELEVATION B

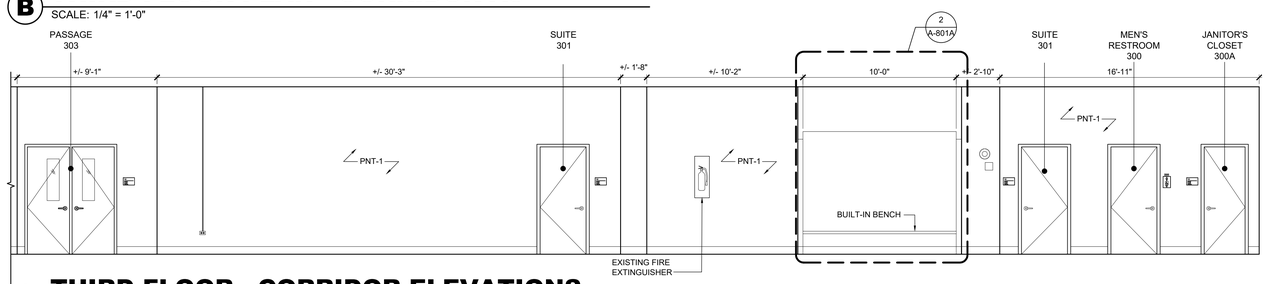
2 THIRD FLOOR - CORRIDOR ELEVATIONS

SCALE: 1/4" = 1'-0"



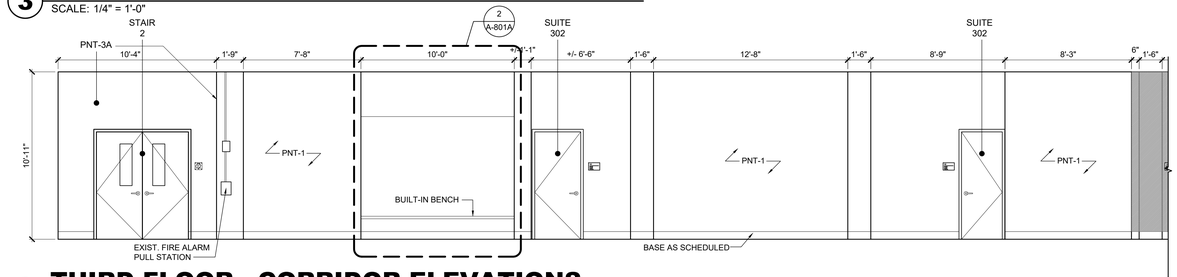
B THIRD FLOOR PLAN - CORRIDOR A3

SCALE: 1/4" = 1'-0"



3 THIRD FLOOR - CORRIDOR ELEVATIONS

SCALE: 1/4" = 1'-0"



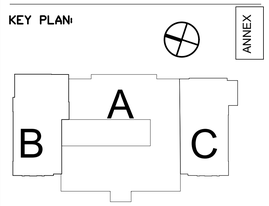
4 THIRD FLOOR - CORRIDOR ELEVATIONS

SCALE: 1/4" = 1'-0"

LEGEND

HATCH INDICATES AREA IN ELEVATION OF TYPE II VINYL WALLCOVERING (WC-2) TO BE INSTALLED.

KEY PLAN:



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Drawing Information:
Project No: 25.024
Date: 06/15/2022
Drawn By: SPJ
Checked By:

Sheet Name:
THIRD FLOOR CORRIDOR A3 INTERIOR ELEVATIONS

Sheet No:
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Sheet 0 of 000

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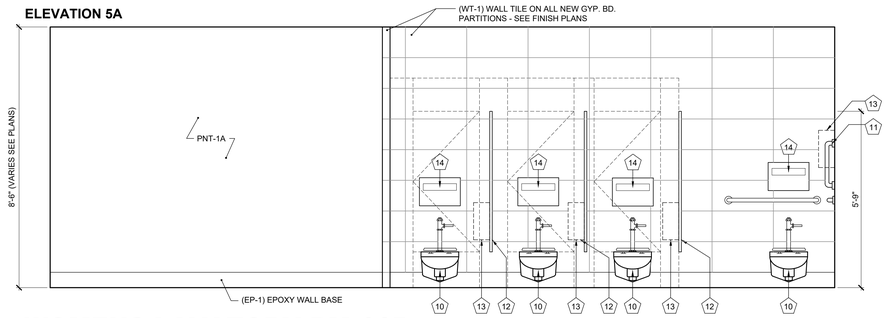
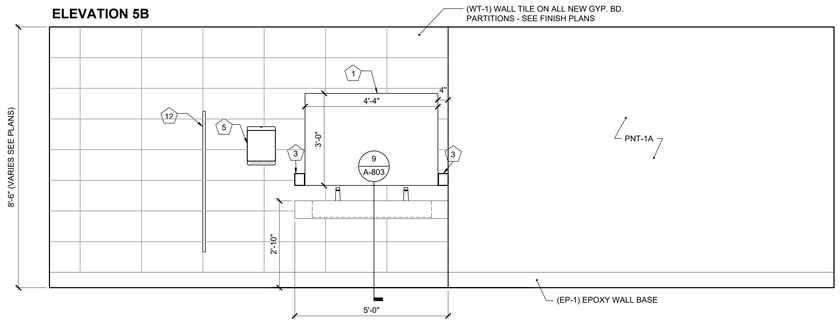
ALTERNATE #4:
ALL WORK IN GANG TOILET ROOMS
MENS 104 & WOMENS 115

ELEVATION 5A



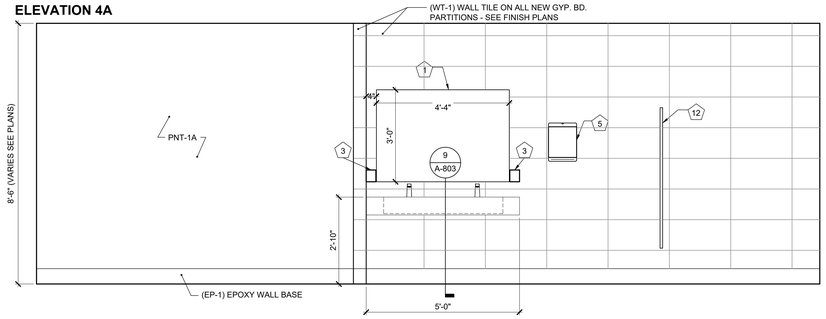
ELEVATION 5B



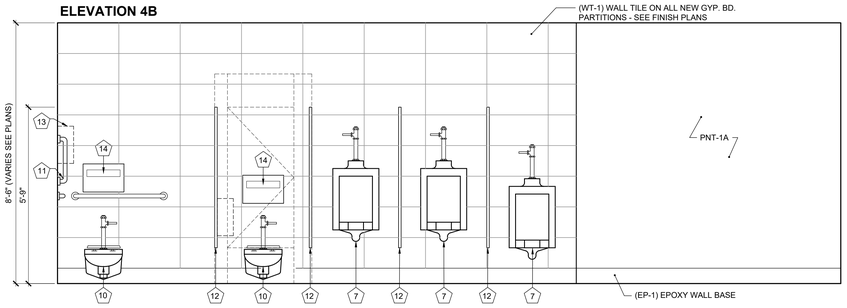
5 WOMENS LAVATORY RM 115

SCALE: 1/4" = 1'-0"

ELEVATION 4A

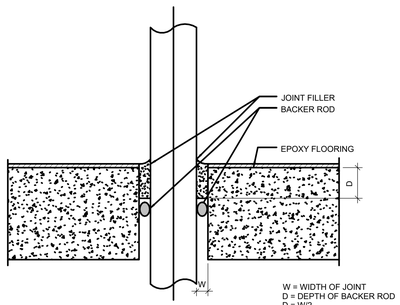


ELEVATION 4B

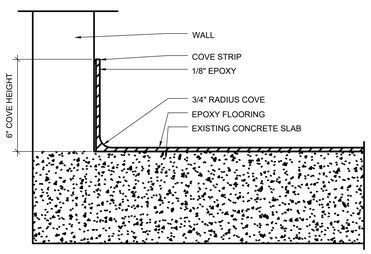


4 MENS LAVATORY RM 104 ELEVATONS

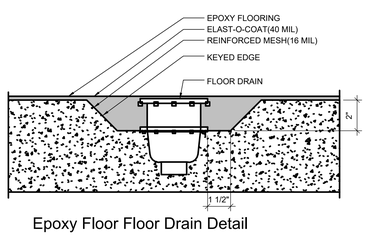
SCALE: 1/4" = 1'-0"



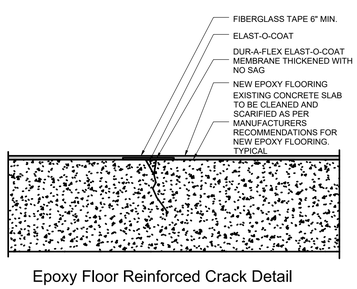
Epoxy Floor Pipe Detail



Epoxy Floor Cove Base with Cap Detail



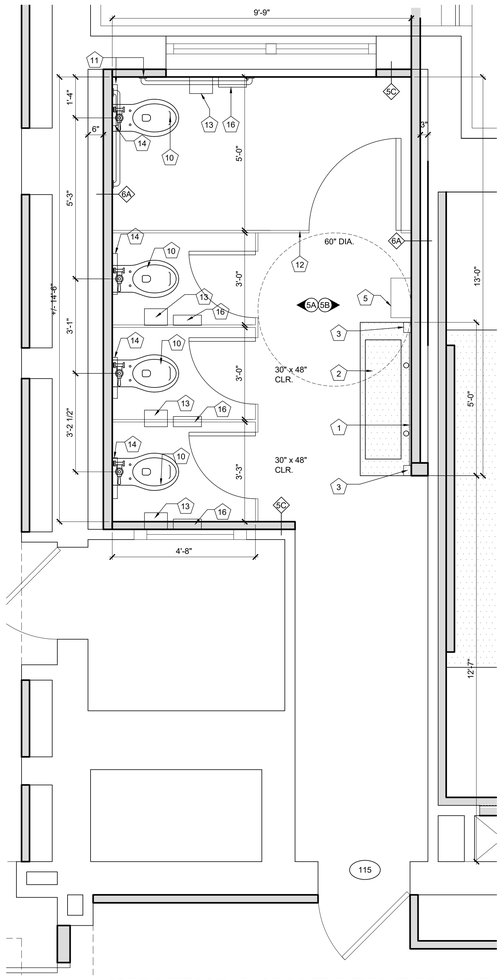
Epoxy Floor Floor Drain Detail



Epoxy Floor Reinforced Crack Detail

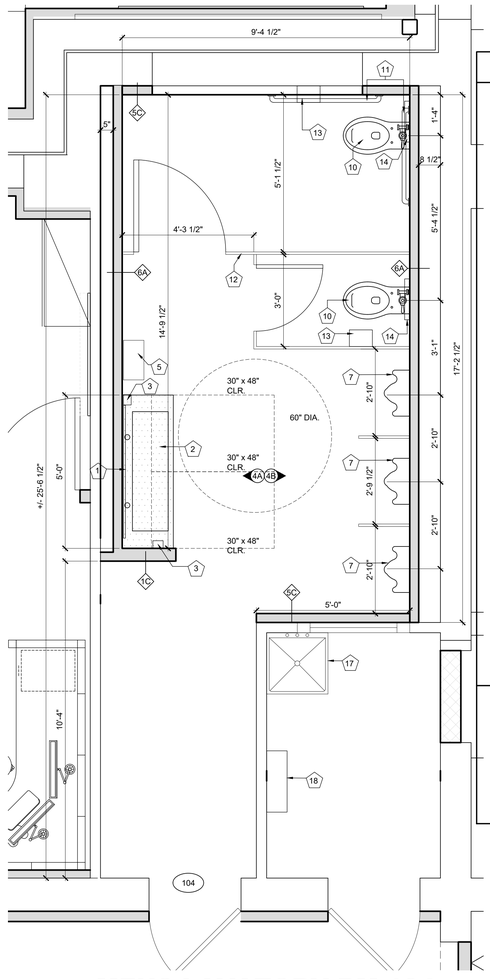
3 EPOXY FLOORING DETAILS

SCALE: 3" = 1'-0"



2 WOMENS LAVATORY RM 115

SCALE: 1/2" = 1'-0"



1 MENS LAVATORY RM 104

SCALE: 1/2" = 1'-0"

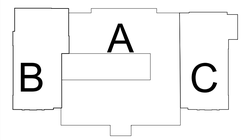
ACCESSORY LEGEND

1. FRAMELESS MIRROR 36" HIGH; WIDTH (SEE ELEVATIONS). BRADLEY MODEL 747 SERIES WITH CLIP FASTENERS. SEE ADDITIONAL DETAILS ON A-003.
2. LAVATORY, SEE PLUMBING SCHEDULE
2A. SINK, SEE PLUMBING SCHEDULE
3. SOAP DISPENSER BY RENOWN RB 4 MANUAL FOAM HANDWASH DISPENSER, BRUSHED METALLIC / BLACK - SUPPLIED BY ROWAN, GC TO INSTALL
4. NOT USED
5. PAPER TOWEL DISPENSER - BY RENOWN 8" BLACK MECHANICAL PAPER TOWEL DISPENSER
6. NOT USED
7. URINAL, SEE PLUMBING SCHEDULE
8. NOT USED
9. PAIR OF WALL/DOOR MOUNTED COAT HOOKS
10. WATER CLOSET, SEE PLUMBING SCHEDULE
11. BOBRICK GRAB BARS; 1-1/2" DIAMETER/SS GRAB BARS W/ SNAP FLANGE. MODEL LENGTHS AS SHOWN ON PLANS, ELEVATIONS AND DETAILS.
12. TOILET PARTITION
13. TOILET PAPER DISPENSER, BY RENOWN JR JUMBO BLACK TWIN TOILET PAPER DISPENSER - SUPPLIED BY ROWAN, GC TO INSTALL
14. TOILET SEAT COVER DISPENSER BY HEALTH GUARDS TOILET SEAT COVER SMOKE DISPENSER - SUPPLIED BY ROWAN, GC TO INSTALL
15. NOT USED
16. NAPKIN/TAMPON DISPOSAL BY ALPINE INDUSTRIES WALL MOUNTED SANITARY NAPKIN RECEPTACLE IN STAINLESS STEEL
17. JANITOR SINK, SEE PLUMBING SCHEDULE, PROVIDE BOBRICK MODEL - B-239 X 34 IN ALL JAN. CLO.
18. MOP RACK HOLDER (5 HOLDERS), PROVIDE AMERCIAN SPECIALTIES MODEL - 8215-5 IN ALL JAN. CLO. SURFACE (WALL) MOUNTED.

ACCESSORY GENERAL NOTES:

1. ALL FIXTURES AND ACCESSORY OPTIONS TO BE CONFIRMED WITH OWNER PRIOR TO ORDERING.
2. ALL ELECTRICAL FIXTURES/ACCESSORIES TO BE HARDWIRED. COORDINATE WITH MANUFACTURER'S REQUIREMENTS AND OWNER PRIOR TO ORDERING.
3. CONTRACTOR TO PROVIDE AND INSTALL BLOCKING IN WALL FOR ALL ACCESSORIES.
4. REFER TO PLUMBING FIXTURE SCHEDULE FOR PLUMBING FIXTURE TYPES.
5. REFER TO SHEET A-003 FOR ALL ADA/ BARRIER FREE DETAILS AND TYPICAL NOTES.

KEY PLAN:



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NJ RA AI 15023, NY RA 027416, PA RA 405474

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201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date: 06/15/2025
Drawn By: TC
Checked By: KG

Sheet Name:
TYPICAL ENLARGED TOILET ROOM PLANS AND ELEVATIONS - FIRST FLOOR

Sheet No:
A-304
Sheet 0 of 000

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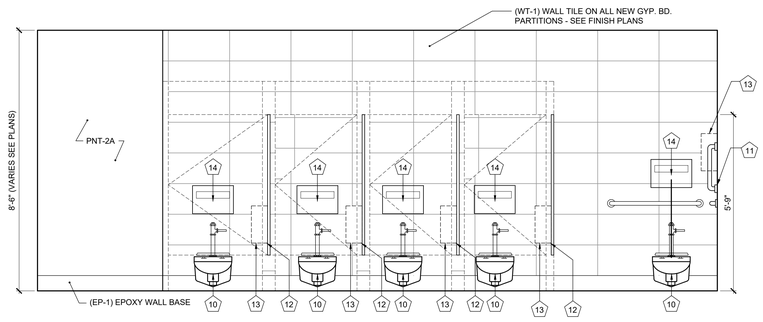
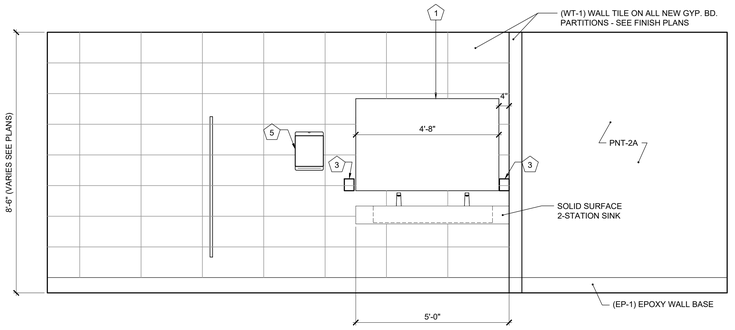
ALTERNATE #3:
ALL WORK IN GANG TOILET ROOMS
MENS 207B, 300 & WOMENS 213B, 307

ELEVATION 4A



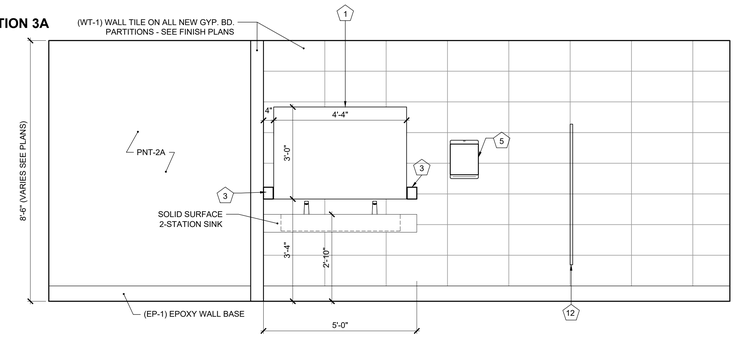
ELEVATION 4B



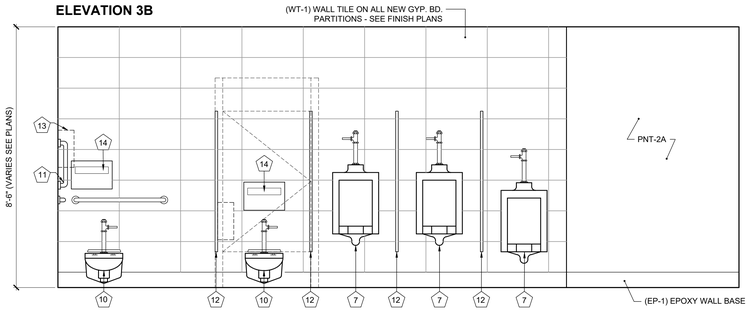
4 WOMENS LAVATORY RM 213B & 307 ELEVATONS

SCALE: 1/2" = 1'-0"

ELEVATION 3A

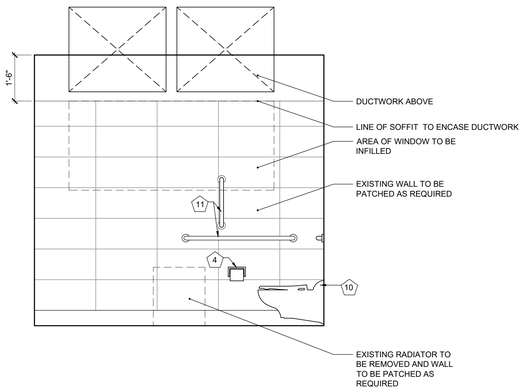


ELEVATION 3B



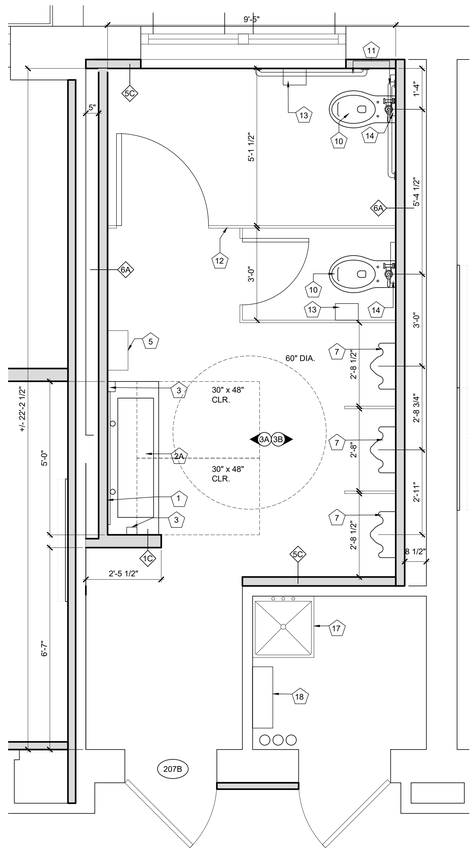
3 MENS LAVATORY RM 207B & 300 ELEVATONS

SCALE: 1/2" = 1'-0"



5 MENS LAVATORY RM 300 ELEVATON

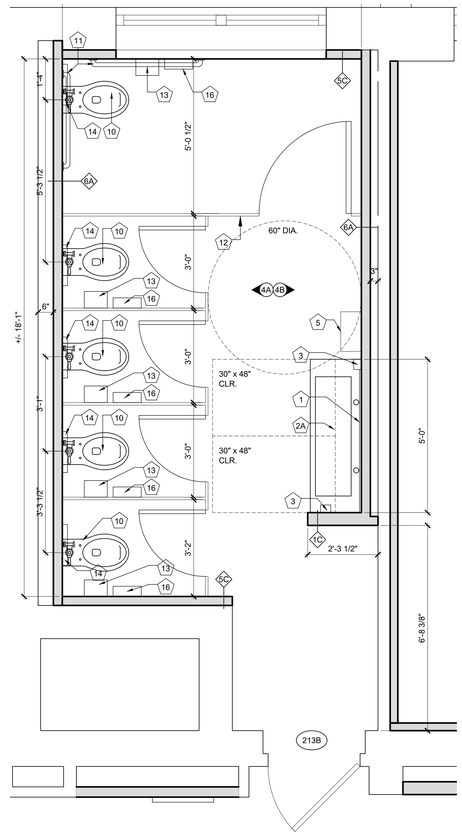
SCALE: 1/2" = 1'-0"



2 MENS LAVATORY RM 207B & 300

SCALE: 1/2" = 1'-0"

MENS LAVATORY RM 207B AS SHOWN
MENS LAVATORY RM 300 IS SIMILAR



1 WOMENS LAVATORY RM 213B & 307

SCALE: 1/2" = 1'-0"

WOMENS LAVATORY RM 213B AS SHOWN
WOMENS LAVATORY RM 307 IS SIMILAR

ACCESSORY LEGEND

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2	LAVATORY, SEE PLUMBING SCHEDULE
2A	SINK, SEE PLUMBING SCHEDULE
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4	NOT USED
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6	NOT USED
7	URINAL, SEE PLUMBING SCHEDULE
8	NOT USED
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18	MOP RACK HOLDER (5 HOLDERS), PROVIDE AMERCIAN SPECIALTIES MODEL - 8215-5 IN ALL JAN. CLO. SURFACE (WALL) MOUNTED.

ACCESSORY GENERAL NOTES:

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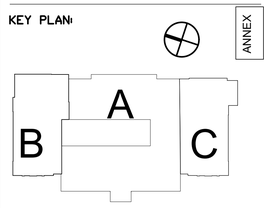
KEY PLAN:



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Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
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Drawing Information:
Project No: 25.024
Date: 06/15/2025
Drawn By: TC
Checked By: KG

Sheet Name:
TYPICAL ENLARGED TOILET ROOM PLANS AND ELEVATIONS - SECOND & THIRD FLOORS

Sheet No:
A-305
Sheet 0 of 000

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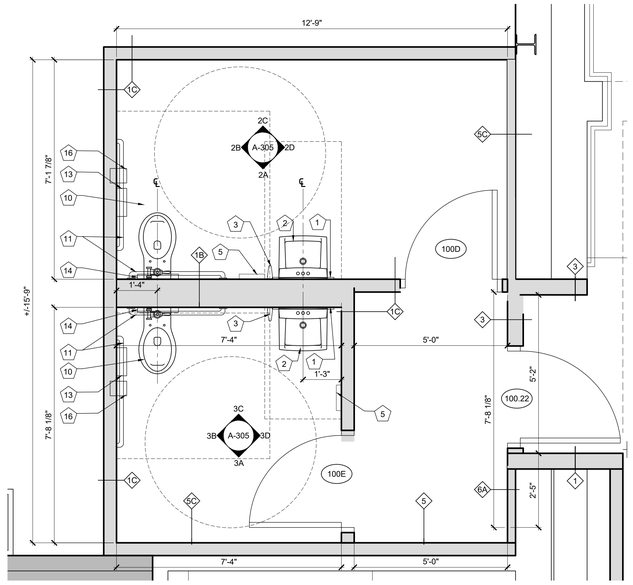
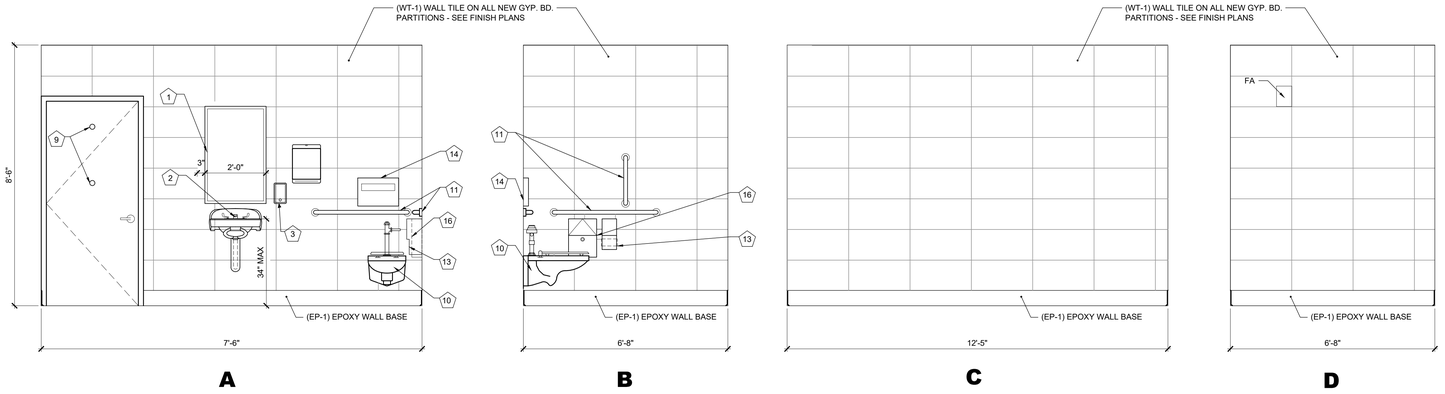


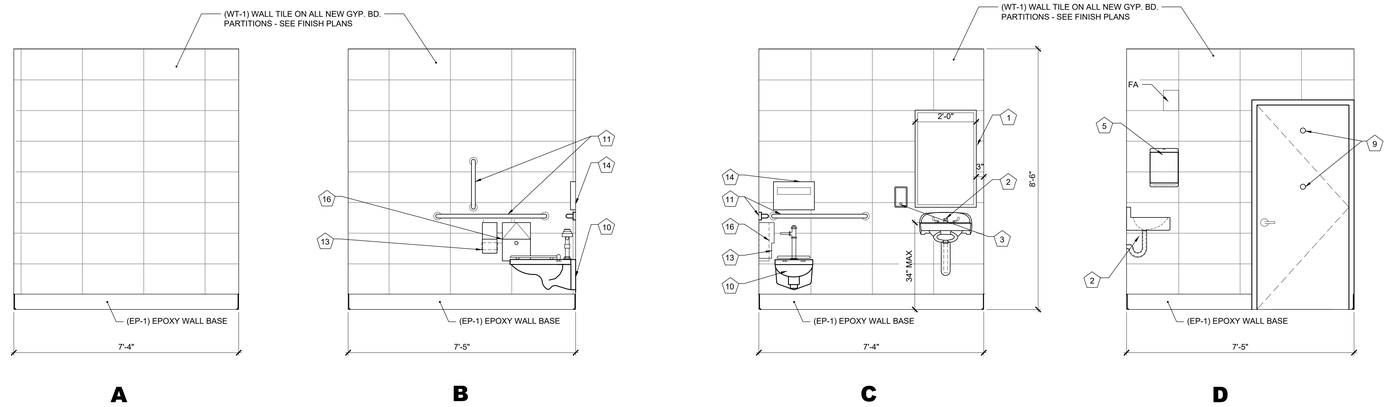
1 TOILET ROOMS 100D & 100E

SCALE: 1/2" = 1'-0"



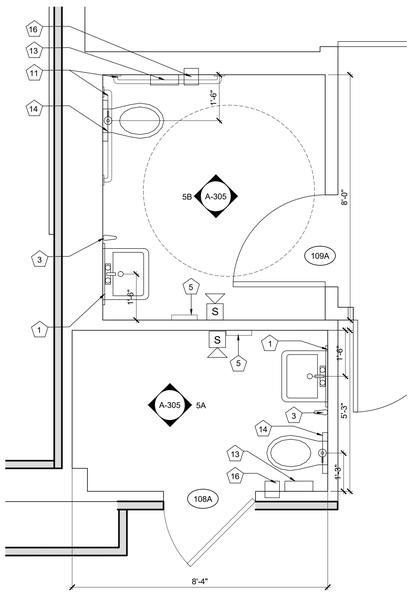
2 TOILET ROOM 100D ELEVATION

SCALE: 1/2" = 1'-0"



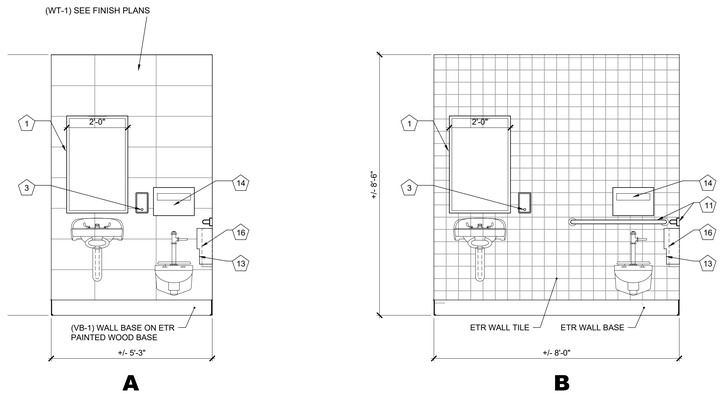
3 TOILET ROOM 100E ELEVATION

SCALE: 1/2" = 1'-0"



4 EXIST. TOILET ROOM 108A & 109A

SCALE: 1/2" = 1'-0"



5 EXIST. TOILET ROOM 108A & 109A ELEVATION

SCALE: 1/2" = 1'-0"

ACCESSORY LEGEND

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5	PAPER TOWEL DISPENSER - BY RENOWN 8" BLACK MECHANICAL PAPER TOWEL DISPENSER
6	NOT USED
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ACCESSORY GENERAL NOTES:

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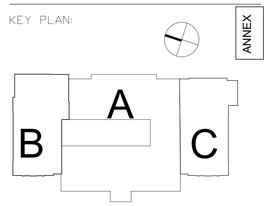
2. ALL ELECTRICAL FIXTURES/ACCESSORIES TO BE HARDWIRED. COORDINATE WITH MANUFACTURER'S REQUIREMENTS AND OWNER PRIOR TO ORDERING.

3. CONTRACTOR TO PROVIDE AND INSTALL BLOCKING IN WALL FOR ALL ACCESSORIES.

4. REFER TO PLUMBING FIXTURE SCHEDULE FOR PLUMBING FIXTURE TYPES.

5. REFER TO SHEET A-003 FOR ALL ADA/ BARRIER FREE DETAILS AND TYPICAL NOTES.

KEY PLAN:



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Drawing Information:
Project No: 25.024
Date: 06/15/2025
Drawn By: TC
Checked By: KG

Sheet Name:
TYPICAL ENLARGED TOILET ROOM PLANS AND ELEVATIONS

Sheet No:
A-306
Sheet 0 of 000

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REFLECTED CEILING PLAN NOTES

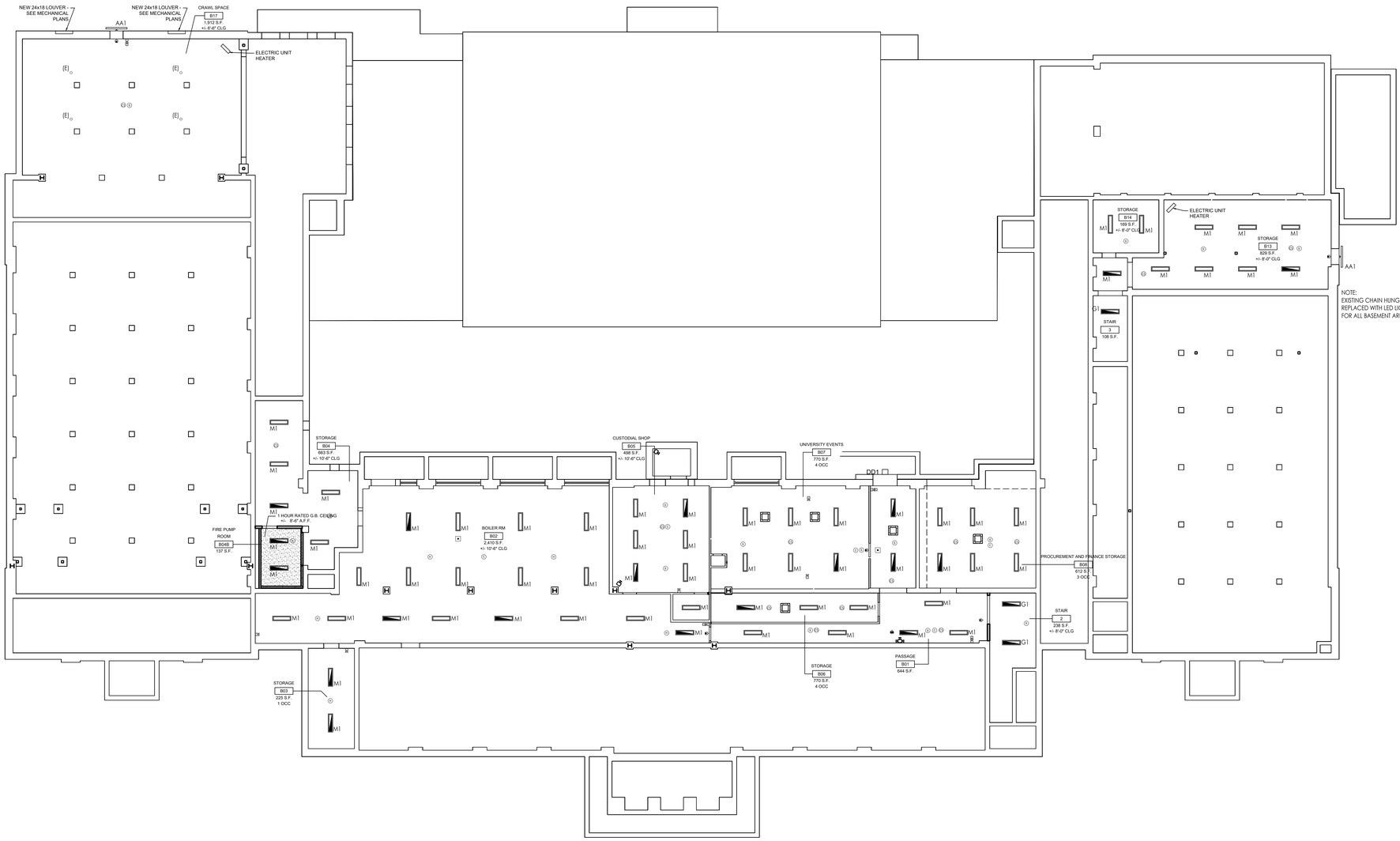
1. TYPICAL A.C.T. GRID CENTERED IN ALL ROOMS AND AREAS UNLESS NOTED OTHERWISE.
2. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE CEILINGS WITH ALL MECHANICAL EQUIPMENT, DUCTWORK, PIPING, FIXTURES, ETC. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION.
3. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION ON LIGHT FIXTURES, SWITCHING, POWER REQUIREMENTS, ETC.
4. ALL DIMENSIONS NOTED FOR FIXTURES ARE TO CENTERLINE OF FIXTURE. REFER TO SCHEDULE AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
5. ALL LIGHT FIXTURES TO HAVE A MINIMUM OF TWO HANGERS PER FIXTURE, TYPICAL.
6. G.C. TO COORDINATE FINAL SPRINKLER HEAD LOCATIONS AND ALARMS WITH CEILING PLAN.

RCP LEGEND

- 2x4 ACOUSTICAL CEILING GRID - REFER TO SPECIFICATIONS FOR MANUFACTURER AND TYPE
- 2x2 ACOUSTICAL CEILING GRID - REFER TO SPECIFICATIONS FOR MANUFACTURER AND TYPE
- GYPSUM BOARD CEILING SOFFIT - REFER TO SPECIFICATIONS FOR MANUFACTURER AND TYPE
- LAY-IN LED LIGHT FIXTURE, REFER TO LIGHT FIXTURE SCHEDULE AND ELECTRICAL DWGS
- SQUARE LAY-IN LED LIGHT FIXTURE, REFER TO LIGHT FIXTURE SCHEDULE AND ELECTRICAL DWGS
- RECESSED LINEAR LED LIGHT FIXTURE, REFER TO LIGHT FIXTURE SCHEDULE AND ELECTRICAL DWGS
- SURFACE MOUNTED OR CHAIN HUNG LED LIGHT FIXTURE, REFER TO LIGHT FIXTURE SCHEDULE AND ELECTRICAL DWGS
- PENDANT LED LIGHT FIXTURE, REFER TO LIGHT FIXTURE SCHEDULE AND ELECTRICAL DWGS
- RECESSED WALL WASHER LED LIGHT FIXTURE, REFER TO LIGHT FIXTURE SCHEDULE AND ELECTRICAL DWGS
- RECESSED DOWNLIGHT LED LIGHT FIXTURE, REFER TO LIGHT FIXTURE SCHEDULE AND ELECTRICAL DWGS
- WALL MOUNTED SCONCE LED LIGHT FIXTURE, REFER TO LIGHT FIXTURE SCHEDULE AND ELECTRICAL DWGS
- DOAS/VRF UNIT, REFER TO MECHANICAL DWGS
- SUPPLY DIFFUSER, REFER TO MECHANICAL DWGS
- RETURN DIFFUSER, REFER TO MECHANICAL DWGS
- CAMERA SYSTEM, REFER TO ELECTRICAL DWGS. ALL NEW CAMERAS IN MAIN BUILDING ARE BASE BID.
- EXIT SIGN, REFER TO ELECTRICAL DWGS.
- S — SMOKE DETECTOR, REFER TO ELECTRICAL DWGS.
- CS — OCCUPANCY/VACANCY SENSOR, REFER TO ELECTRICAL DWGS.
- C — CARBON MONOXIDE DETECTOR
- H — FIRE ALARM HEAT DETECTOR
- SP — RECESSED CEILING SPEAKER, REFER TO ELECTRICAL DWGS.
- SP — WALL MOUNTED SPEAKER, REFER TO ELECTRICAL DWGS.
- M — CEILING MOUNTED MICROPHONE ARRAY, REFER TO ELECTRICAL DWGS.
- S — FIRE ALARM STROBE, REFER TO ELECTRICAL DWGS.
- F — FIRE ALARM HORN AND STROBE, REFER TO ELECTRICAL DWGS.
- F — FIRE ALARM MANUAL PULL STATION, HORN AND STROBE, REFER TO ELECTRICAL DWGS.
- WAP - WIRELESS ACCESS POINT - REFER TO ELECTRICAL DWGS.

FLOOR PLAN NOTES

1 CAREFULLY REMOVE AND REINSTALL EXISTING ACT CEILING AS REQUIRED FOR MECHANICAL WORK. REMOVE ALL CEILING MOUNTED DEVICES, CEILING TILES, GRID, LIGHTS, FANS ETC AND STORE. REINSTALL GRID, TILES AND ALL DEVICES AT EXISTING HEIGHT ONCE NEW MECHANICAL WORK IS COMPLETE. EXISTING GYP. BOARD SOFFITS TO REMAIN. REFER TO MEP DRAWINGS FOR MORE INFORMATION. NOTE CEILING AS SHOWN IS APPROXIMATE, GC TO VERIFY ALL EXISTING LOCATIONS.

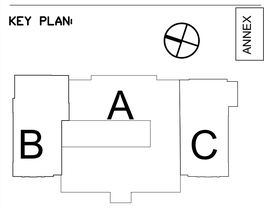


NOTE:
EXISTING CHAIN HUNG LIGHT FIXTURES TO BE REPLACED WITH LED LIGHT FIXTURES, TYPICAL FOR ALL BASEMENT AREAS.

1 BASEMENT REFLECTED CEILING PLAN

SCALE: 3/32" = 1'-0"

KEY PLAN:



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	12/03/25	DCA Submission

Revisions / Issues

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2450 W Hunting Park Ave., Bldg 9 • Philadelphia, PA 19129-1302 • T: 215.634.3400
Richard D. Alderiso , AIA
NJ RA AI 15023, NY RA 027416, PA RA 405474

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Client:
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201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
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Drawing Information:
Project No: 25.024
Date: 04/09/2025
Drawn By: TC
Checked By: KG

Sheet Name:
BASEMENT FLOOR REFLECTED CEILING PLAN

Sheet No:
A-400
Sheet 0 of 000

P:\2025\25-024 ROWAN GIS ROUND 5\DRAWINGS\CONDOCS\ANDOS REFLECTED CEILING PLANS\

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REFLECTED CEILING PLAN NOTES

1. TYPICAL A.C.T. GRID CENTERED IN ALL ROOMS AND AREAS UNLESS NOTED OTHERWISE.
2. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE CEILINGS WITH ALL MECHANICAL EQUIPMENT, DUCTWORK, PIPING, FIXTURES, ETC. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION.
3. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION ON LIGHT FIXTURES, SWITCHING, POWER REQUIREMENTS, ETC.
4. ALL DIMENSIONS NOTED FOR FIXTURES ARE TO CENTERLINE OF FIXTURE. REFER TO SCHEDULE AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
5. ALL LIGHT FIXTURES TO HAVE A MINIMUM OF TWO HANGERS PER FIXTURE, TYPICAL.
6. G.C. TO COORDINATE FINAL SPRINKLER HEAD LOCATIONS AND ALARMS WITH CEILING PLAN.

RCP LEGEND

- 2x4 ACOUSTICAL CEILING GRID - REFER TO SPECIFICATIONS FOR MANUFACTURER AND TYPE
- 2x2 ACOUSTICAL CEILING GRID - REFER TO SPECIFICATIONS FOR MANUFACTURER AND TYPE
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- WAP - WIRELESS ACCESS POINT - REFER TO ELECTRICAL DWGS.

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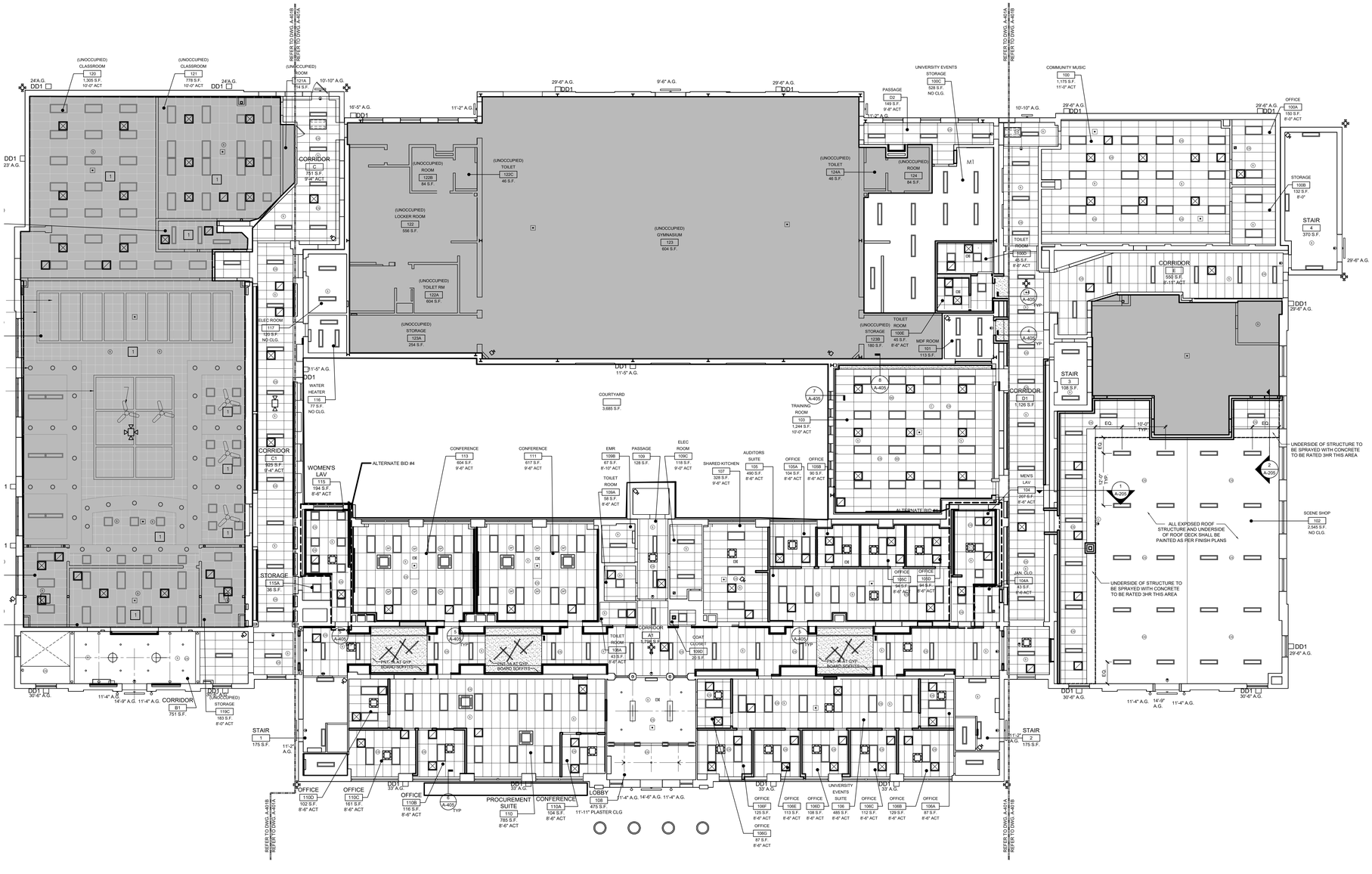
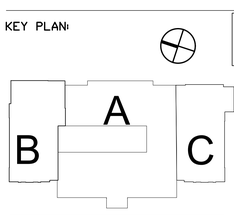


1 FIRST FLOOR REFLECTED CEILING PLAN

SCALE: 3/32" = 1'-0"

KEY PLAN:



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Date: 04/09/2025
Drawn By: TC
Checked By: KG

Sheet Name:

FIRST FLOOR REFLECTED CEILING PLAN

Sheet No:

A-401

Sheet 0 of 000

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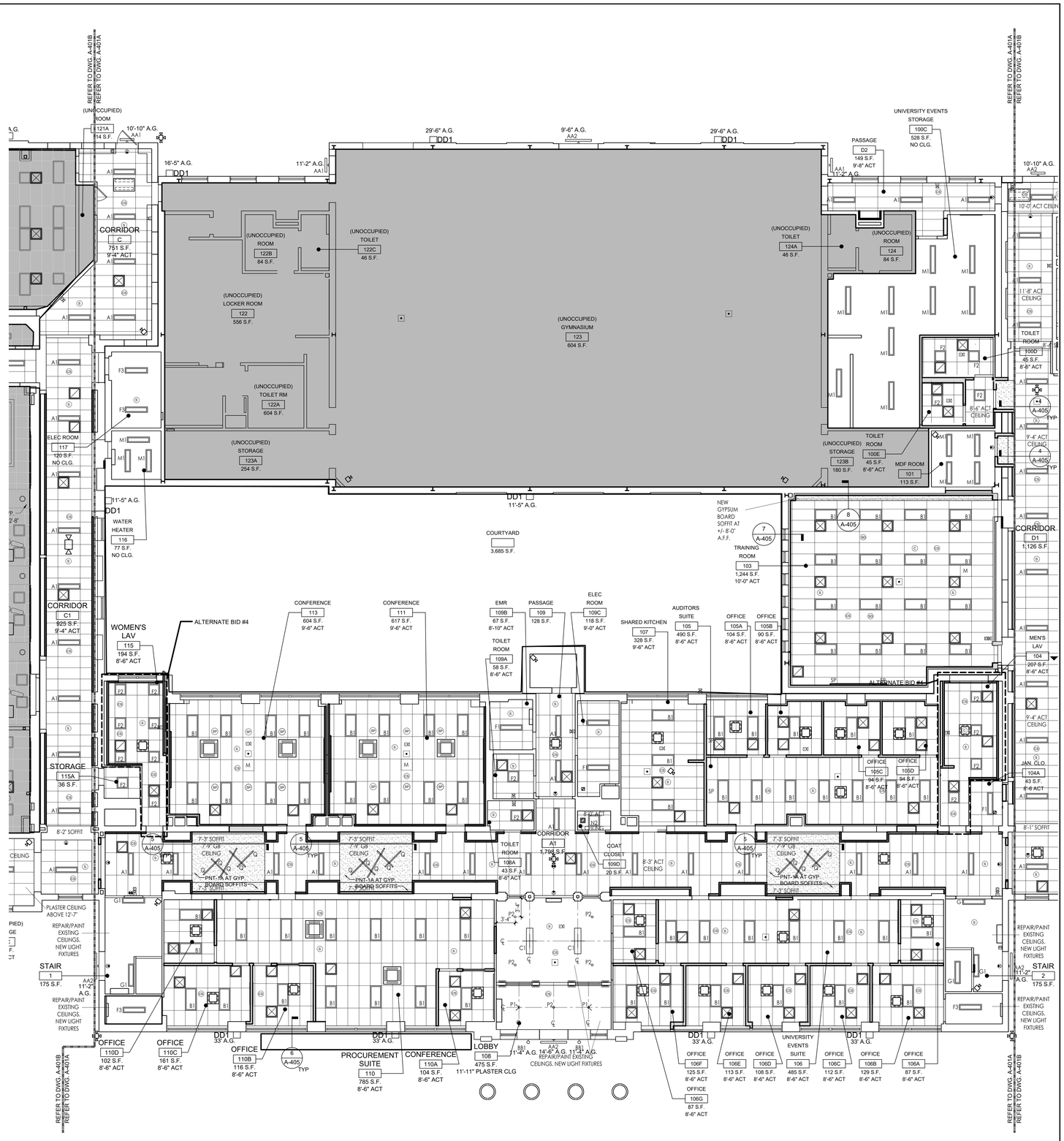

PARTIAL FIRST FLOOR REFLECTED CEILING PLAN AREA 'A'

1 SCALE: 1/8" = 1'-0"

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Drawing Information:
Project No: 25.024
Date: 04/09/2025
Drawn By: TC
Checked By: KG

Sheet Name:
PARTIAL FIRST FLOOR REFLECTED CEILING PLAN AREA 'A'

Sheet No:
A-401A
Sheet 0 of 000

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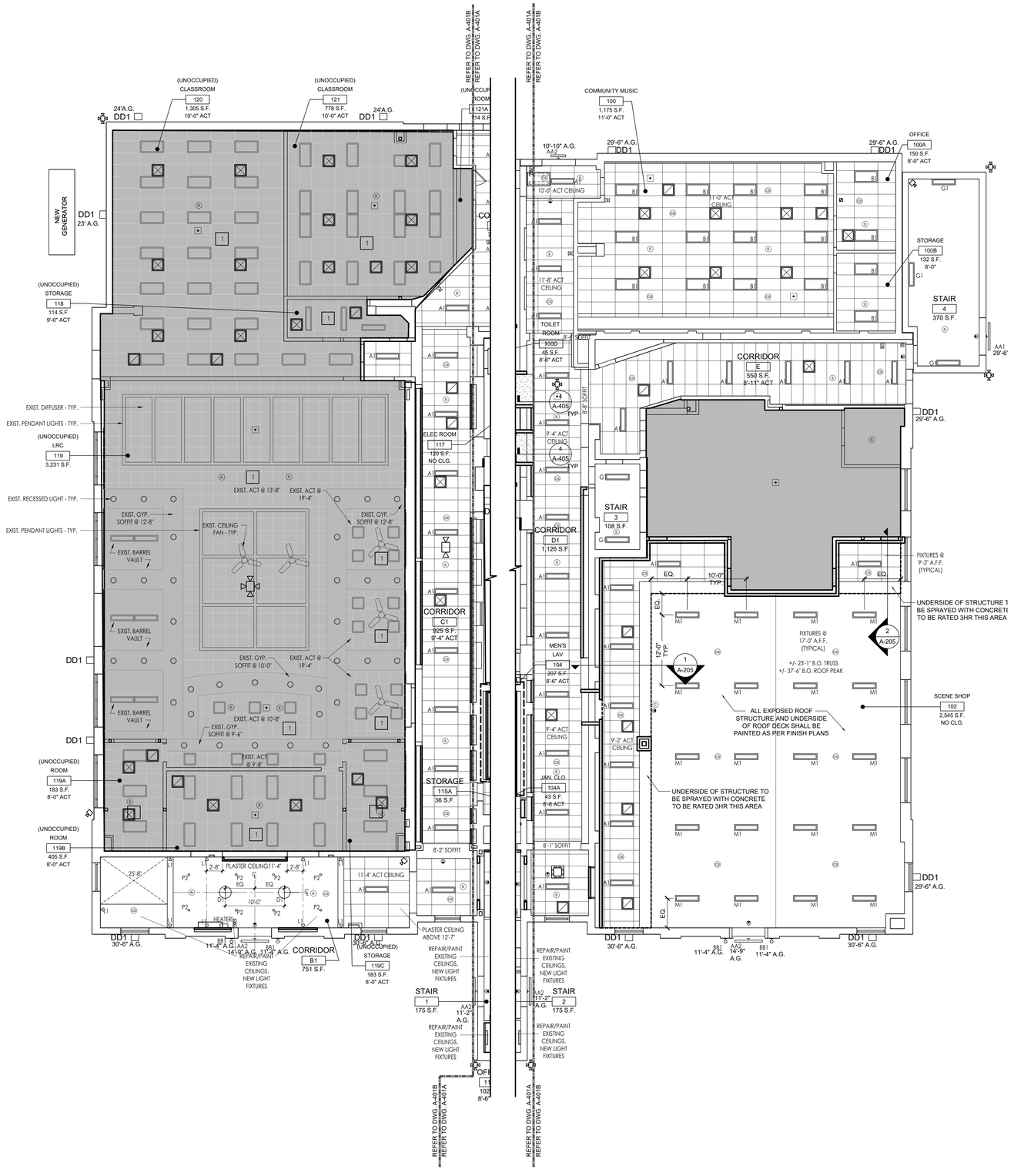


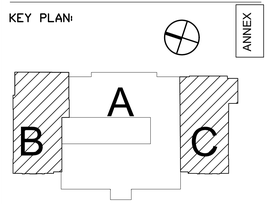
PARTIAL FIRST FLOOR REFLECTED CEILING PLAN AREA 'B'

1 SCALE: 1/8" = 1'-0"

PARTIAL FIRST FLOOR REFLECTED CEILING PLAN AREA 'C'

2 SCALE: 1/8" = 1'-0"

KEY PLAN:



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Drawn By: TC
Checked By: KG

Sheet Name:
PARTIAL FIRST FLOOR REFLECTED CEILING PLAN AREAS B & C

Sheet No:
A-401B
Sheet 0 of 000

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1 SECOND FLOOR REFLECTED CEILING PLAN

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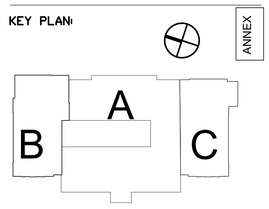
KEY PLAN:



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SECOND FLOOR REFLECTED CEILING PLAN

Sheet No:
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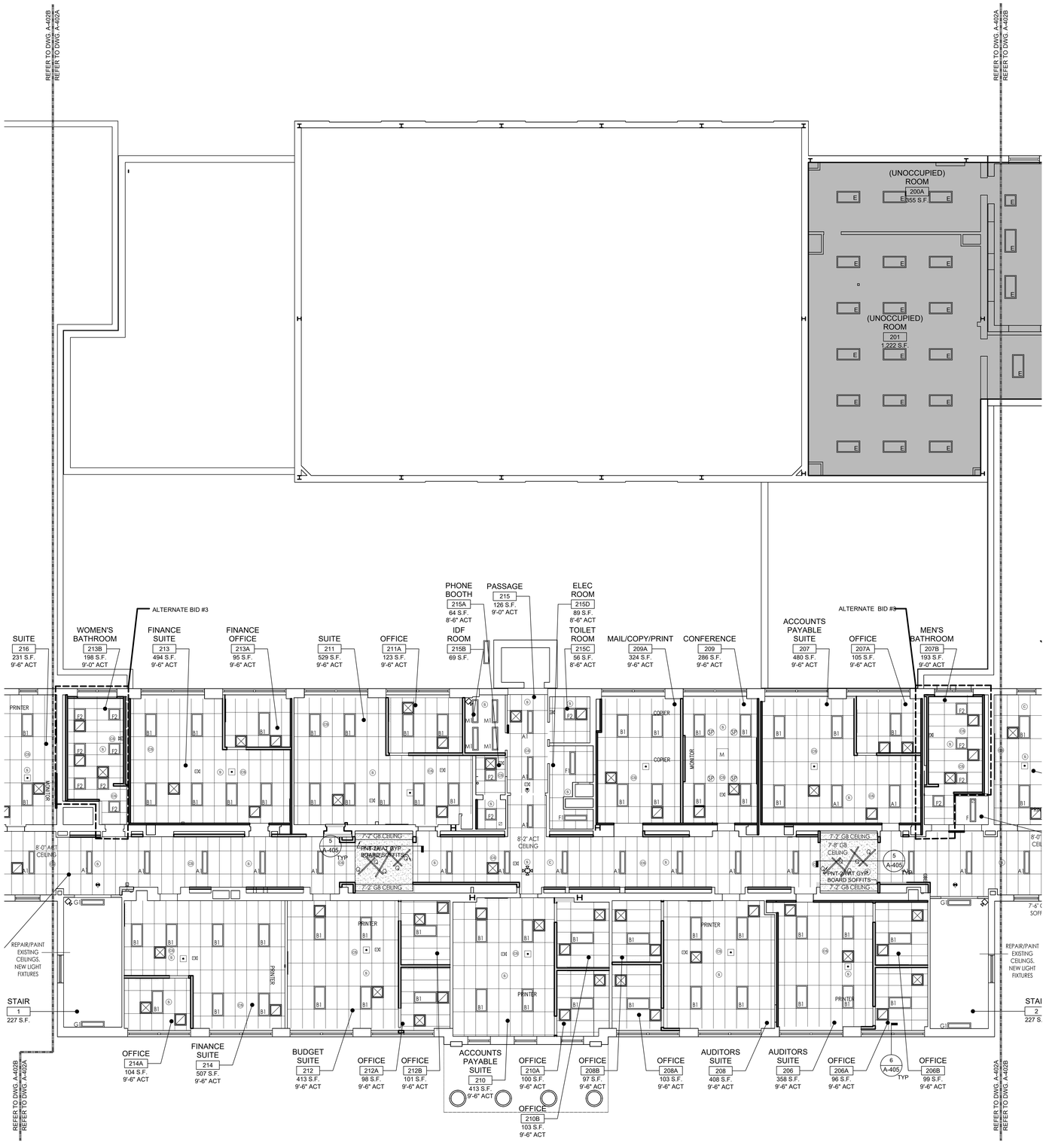
- WAP - WIRELESS ACCESS POINT - REFER TO ELECTRICAL DWGS.

FLOOR PLAN NOTES

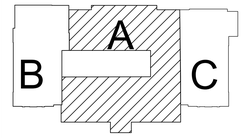
1. CAREFULLY REMOVE AND REINSTALL EXISTING ACT CEILING AS REQUIRED FOR MECHANICAL WORK. REMOVE ALL CEILING MOUNTED DEVICES, CEILING TILES, GRID, LIGHTS, FANS ETC AND STORE. REINSTALL GRID, TILES AND ALL DEVICES AT EXISTING HEIGHT ONCE NEW MECHANICAL WORK IS COMPLETE. EXISTING GYP. BOARD SOFFITS TO REMAIN. REFER TO MEP DRAWINGS FOR MORE INFORMATION. NOTE CEILING AS SHOWN IS APPROXIMATE, GC TO VERIFY ALL EXISTING LOCATIONS.



PARTIAL SECOND FLOOR REFLECTED CEILING PLAN AREA 'A'

1 SCALE: 1/8" = 1'-0"

KEY PLAN:



ANNEX

No.	Date	Revisions / Issues
	12/08/25	OUT TO BID
	12/03/25	DCA Submission

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Richard D. Alderiso , AIA
NJ RA AI 15023, NY RA 027416, PA RA 405474

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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date: 04/09/2025
Drawn By: TC
Checked By: KG

Sheet Name:
PARTIAL SECOND FLOOR REFLECTED CEILING PLAN AREA 'A'

Sheet No:
A-402A
Sheet 0 of 000

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P:\2025\25.024 ROWAN GIS ROUND 5\DRAWINGS\CONDOCS\A402S REFLECTED CEILING PLANS\

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REFLECTED CEILING PLAN NOTES

1. TYPICAL A.C.T. GRID CENTERED IN ALL ROOMS AND AREAS UNLESS NOTED OTHERWISE.
2. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE CEILINGS WITH ALL MECHANICAL EQUIPMENT, DUCTWORK, PIPING, FIXTURES, ETC. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION.
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RCP LEGEND

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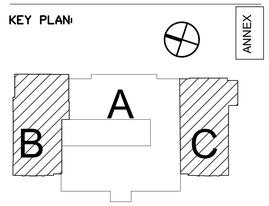
PARTIAL SECOND FLOOR REFLECTED CEILING PLAN AREA 'B'

1 SCALE: 1/8" = 1'-0"

PARTIAL SECOND FLOOR REFLECTED CEILING PLAN AREA 'C'

2 SCALE: 1/8" = 1'-0"

KEY PLAN:



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Drawing Information:
Project No: 25.024
Date: 04/09/2025
Drawn By: TC
Checked By: KG

Sheet Name:
PARTIAL SECOND FLOOR REFLECTED CEILING PLAN AREAS B & C

Sheet No:
A-402B
Sheet 0 of 000

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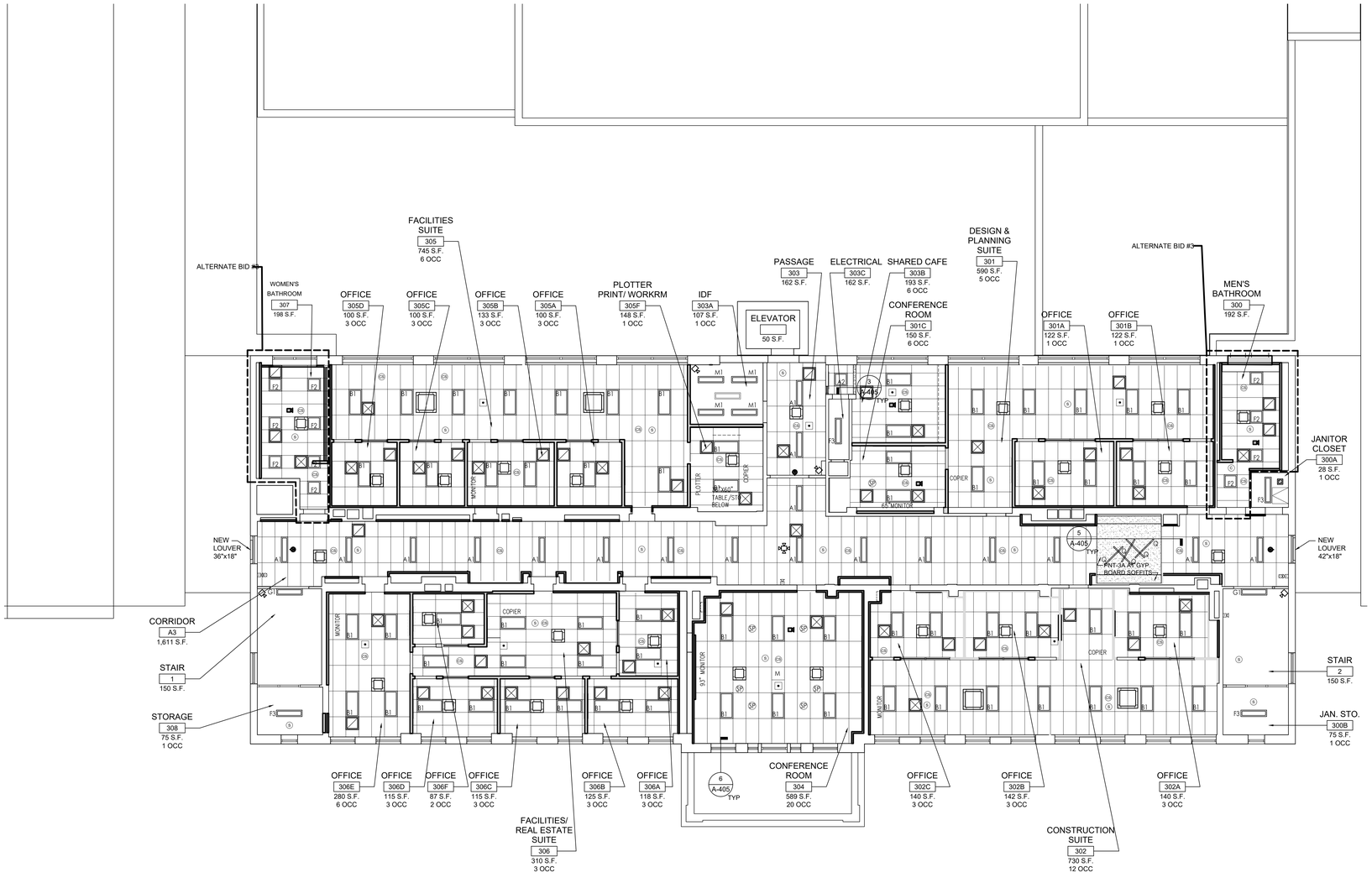
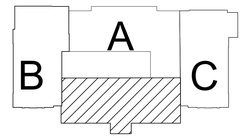
NOTE: REPAIR AND PATCH EXISTING PLASTER ON METAL LATHE CEILING AS NECESSARY AT NEW ELECTRICAL/ MECHANICAL/ PLUMBING PENETRATIONS. REFER TO FIRESTOPPING NOTES ON A-004 & A-005.



1 THIRD FLOOR REFLECTED CEILING PLAN

SCALE: 1/8" = 1'-0"

KEY PLAN:



ANNEX

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	12/08/25	OUT TO BID
	12/03/25	DCA Submission

Revisions / Issues

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Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date: 04/09/2025
Drawn By: TC
Checked By: KG

Sheet Name:
THIRD FLOOR
REFLECTED CEILING PLAN

Sheet No:
A-403
Sheet 0 of 000

P:\2025\25-024 ROWAN GIS ROUND 5\DRAWINGS\CONDOCS\A-RCPS REFLECTED CEILING PLANS\

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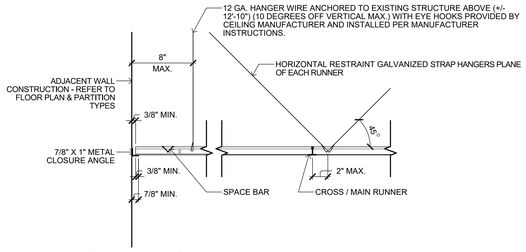
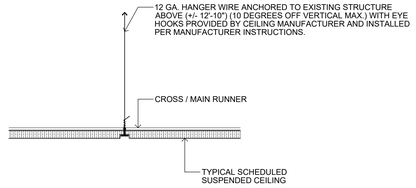
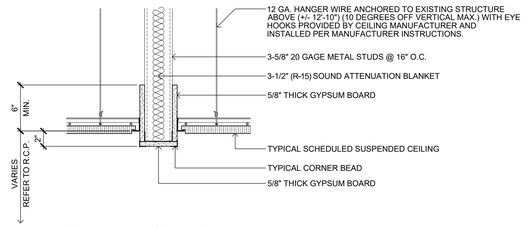


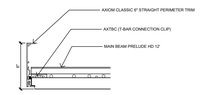
Large Scale
ACT Siesmic Restraint Detail
1 SCALE: 1-1/2" = 1'-0" TYPICAL DETAIL THROUGHOUT



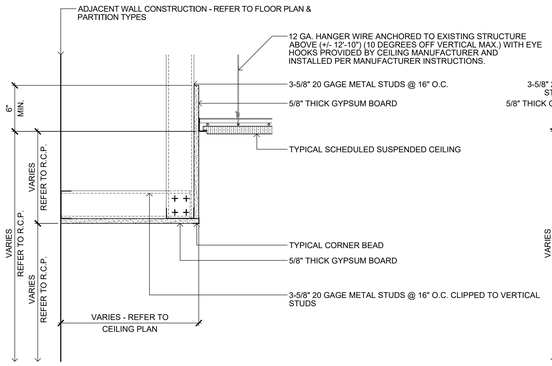
Large Scale
Typical ACT Ceiling Detail
2 SCALE: 1-1/2" = 1'-0" TYPICAL DETAIL THROUGHOUT



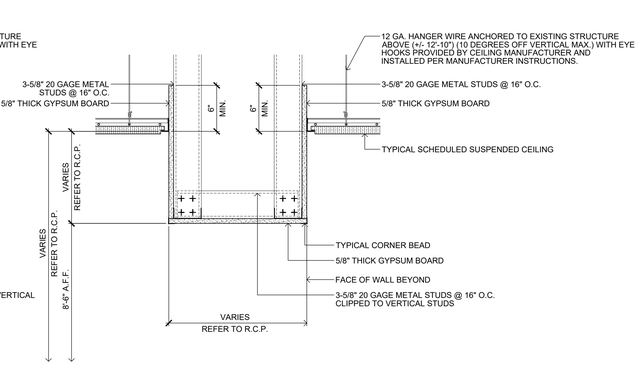
Large Scale
Ceiling Transition Detail
3 SCALE: 1-1/2" = 1'-0"



AXIOM - Classic
Trim Detail
7 SCALE: 1-1/2" = 1'-0"

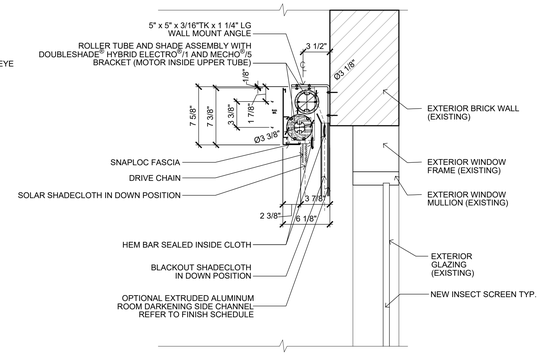


Large Scale
Ceiling Transition Detail
4 SCALE: 1-1/2" = 1'-0"

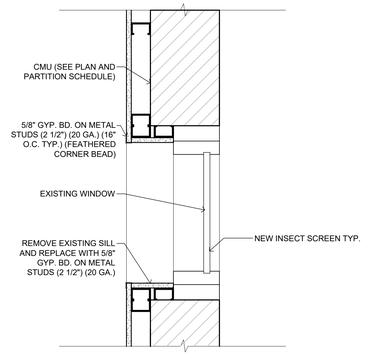


Large Scale
Ceiling Transition Detail
5 SCALE: 1-1/2" = 1'-0"

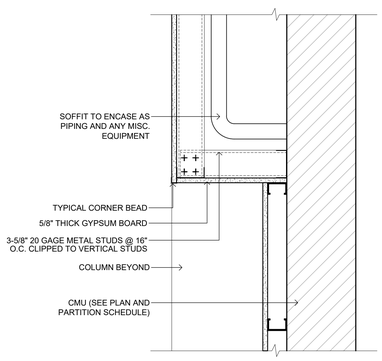
REFER TO FINISH PLANS FOR ROLLER SHADE LOCATIONS - D20 KEYNOTE



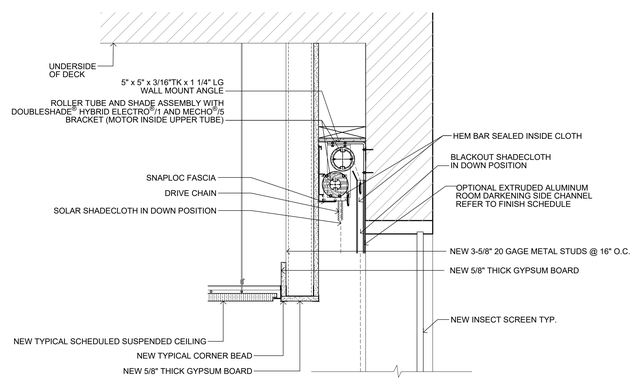
3rd Floor
Window Fascia Detail
6 SCALE: 1-1/2" = 1'-0"



Window Detail
7 SCALE: 1-1/2" = 1'-0"

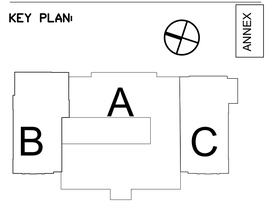


Meeting Room Soffit Detail
8 SCALE: 1-1/2" = 1'-0"



1st and 2nd Floor
Window Fascia Detail
9 SCALE: 1-1/2" = 1'-0"

KEY PLAN:



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Drawing Information:
Project No: 25.024
Date: 06/15/2025
Drawn By: DC
Checked By: KG

Sheet Name:
LARGE SCALE CEILING DETAILS

Sheet No:
A-405
Sheet 0 of 000

P:\2025\25-024 ROWAN GIS ROUND 5\DRAWINGS\CONDOCS\ADDS REFLECTED CEILING PLANS\

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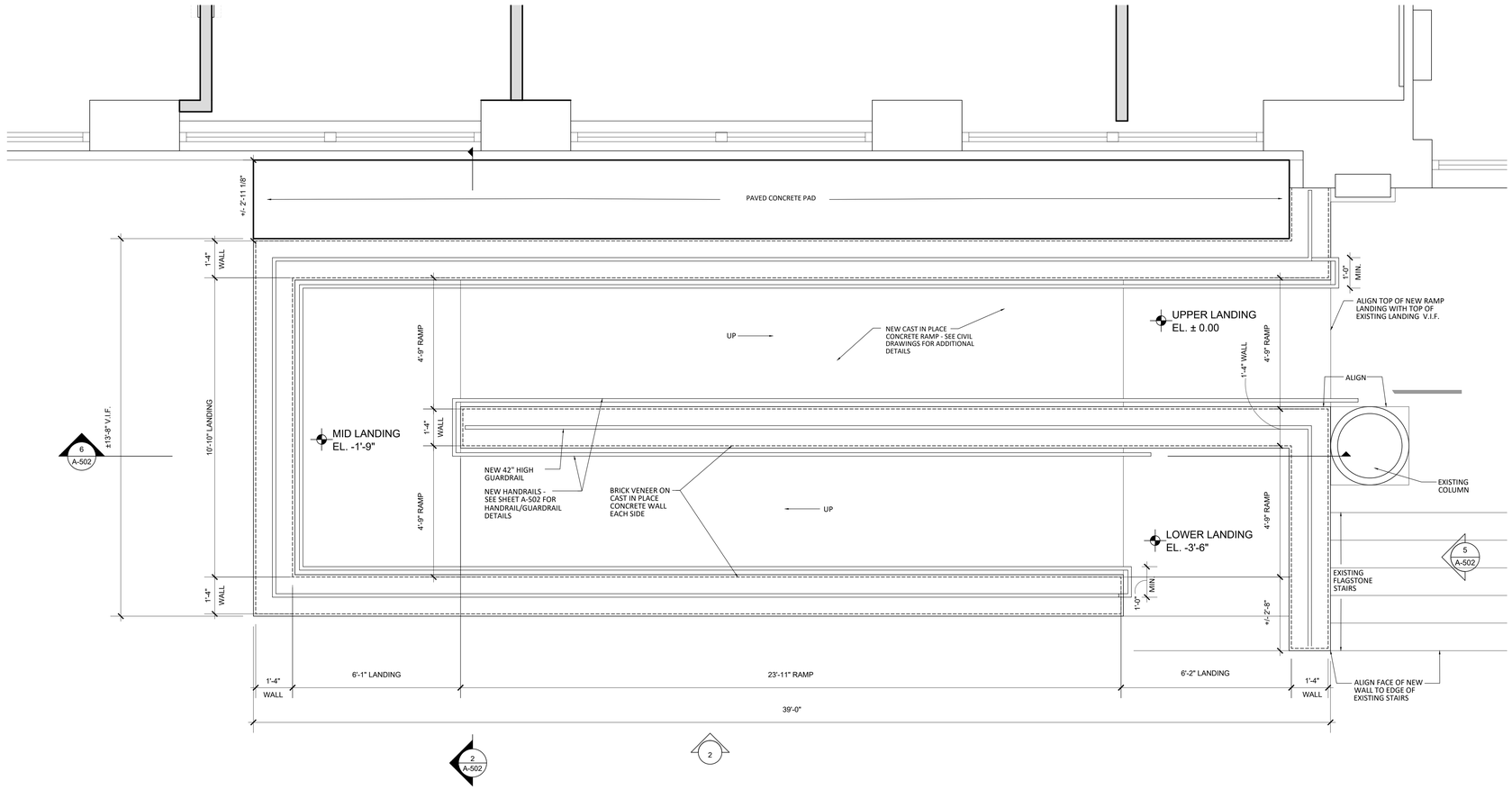
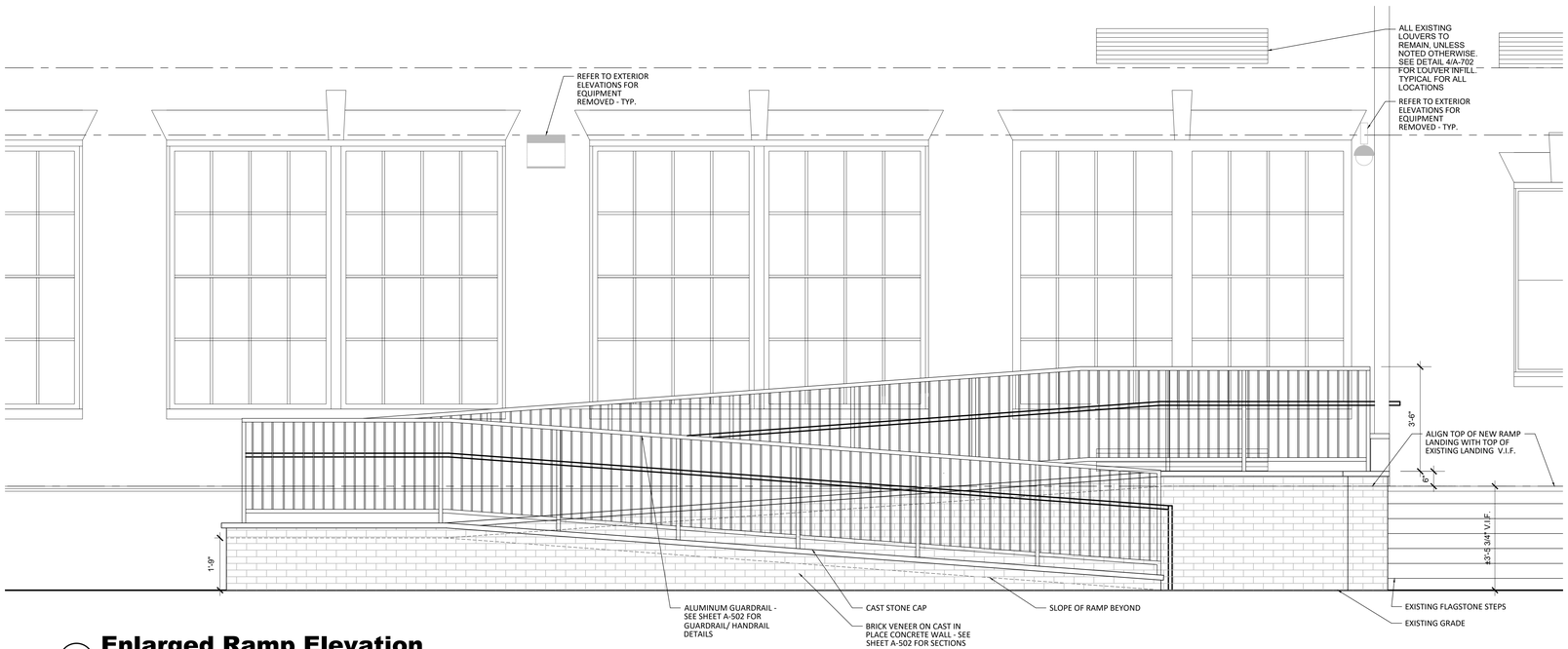


1 Enlarged Ramp Plan

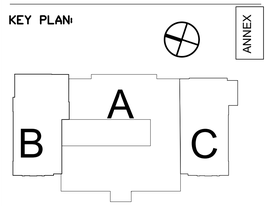
SCALE: 1/2" = 1'-0"



2 Enlarged Ramp Elevation

SCALE: 1/2" = 1'-0"

KEY PLAN:



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Richard D. Alderiso , AIA
NJ RA AI 15023, NY RA 027416, PA RA 405474

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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date: 04/24/2025
Drawn By: TC
Checked By: KG

Sheet Name:
NEW RAMP PLAN & ELEVATION

Sheet No:
A-501
Sheet 0 of 000

P:\2025\25.024 ROWAN GIS ROUND 5\DRAWINGS\CONDOCS\A500S VERTICAL CIRCULATION\

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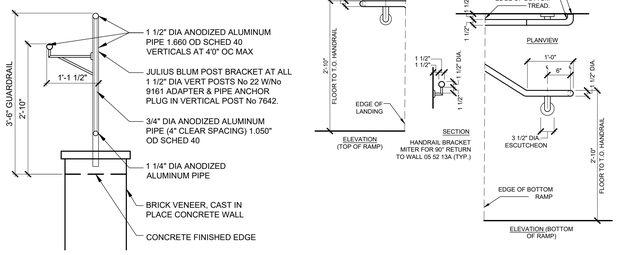

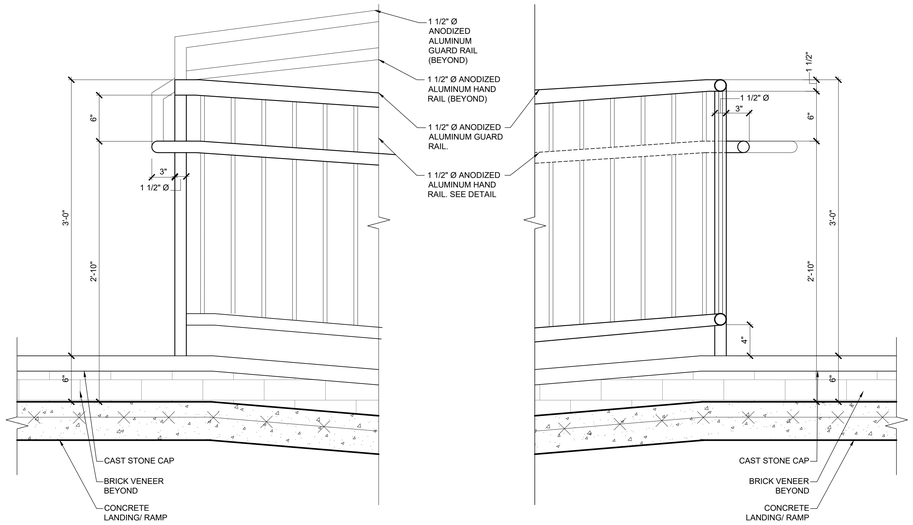

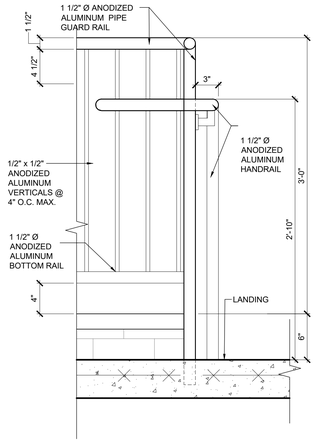

1 Typical Railing Details

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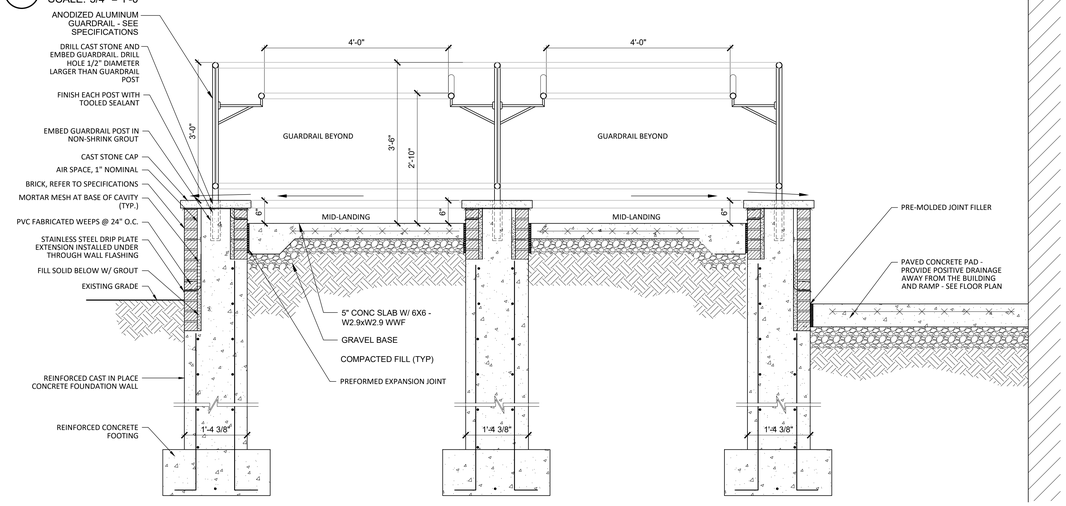
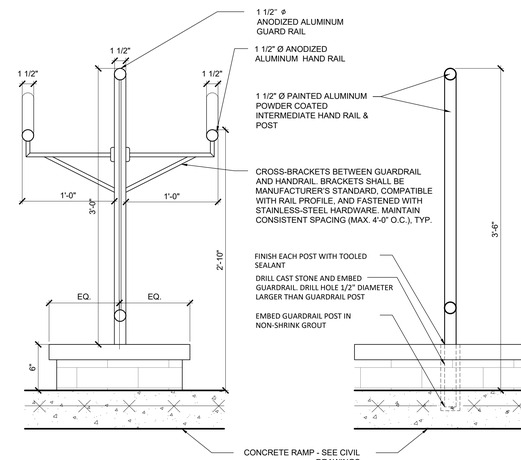


2 Ramp Section @ Intermediate Landing

SCALE: 3/4" = 1'-0"



4 Typical Railing Details

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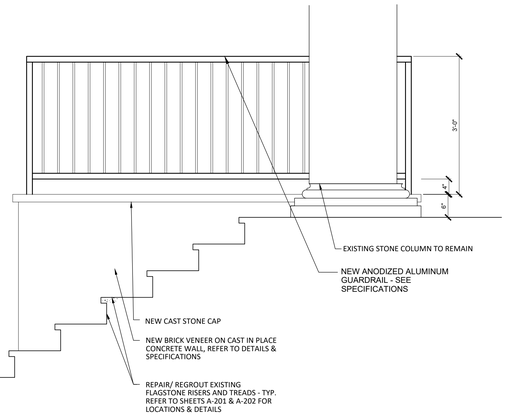
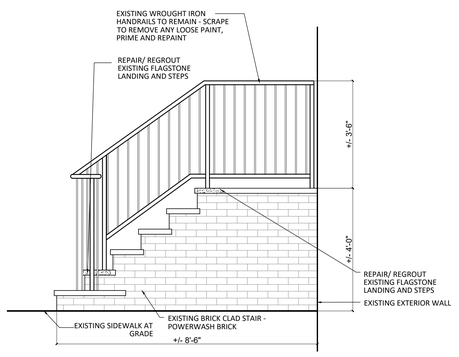


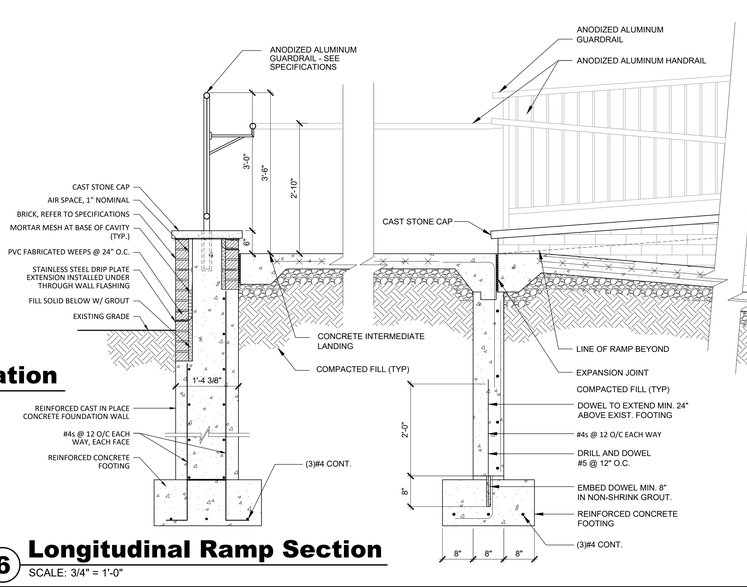
5 Ramp Side Wall Elevation

SCALE: 3/4" = 1'-0"



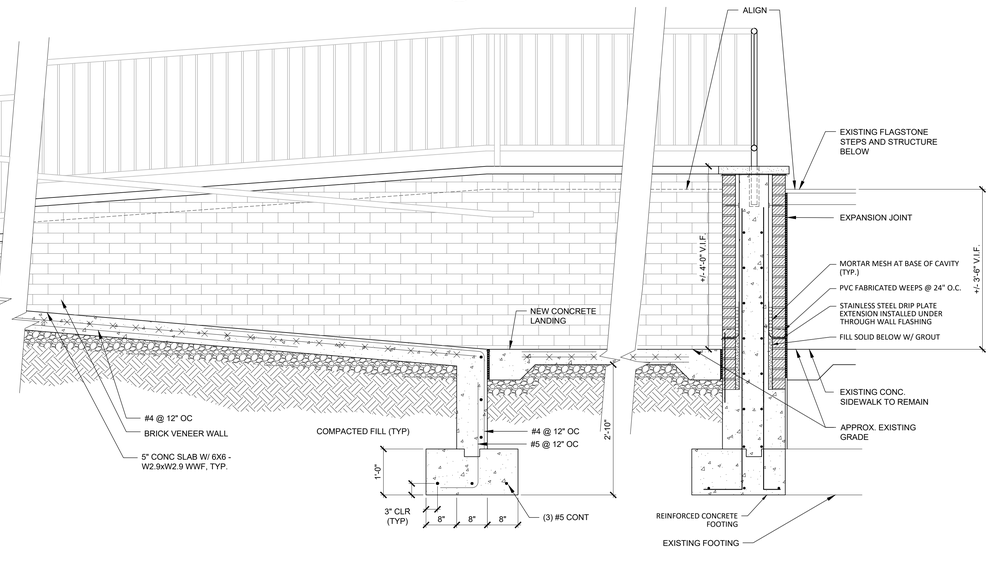
3 Typ. Railing & Stair Repair Elevation

SCALE: 3/4" = 1'-0"



6 Longitudinal Ramp Section

SCALE: 3/4" = 1'-0"



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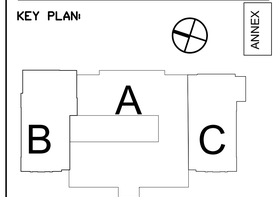

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Date: 04/24/2025
Drawn By: TC
Checked By: KG

Sheet Name:

NEW RAMP SECTION & RAILING DETAILS

Sheet No:

A-502

Sheet 0 of 000

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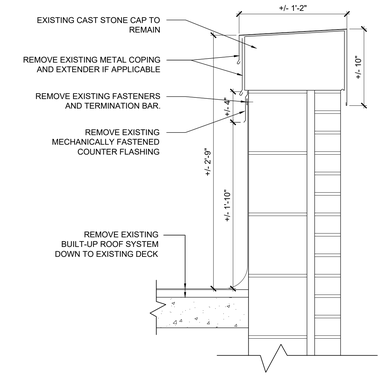

1 Demo Detail - Roof Parapet

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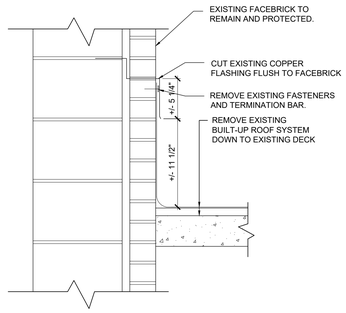

2 Demo Detail - Roof / Wall

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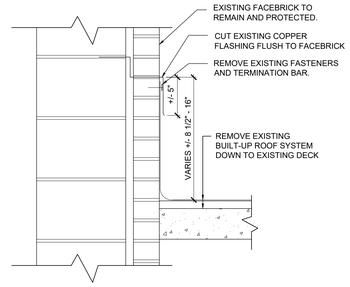

3 Demo Detail - Roof / Wall

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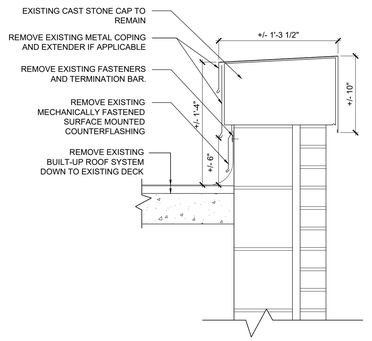

4 Demo Detail - Roof Parapet

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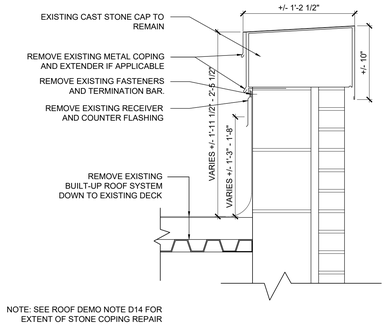

NOTE: SEE ROOF DEMO NOTE D14 FOR EXTENT OF STONE COPING REPAIR

5 Demo Detail - Roof Parapet

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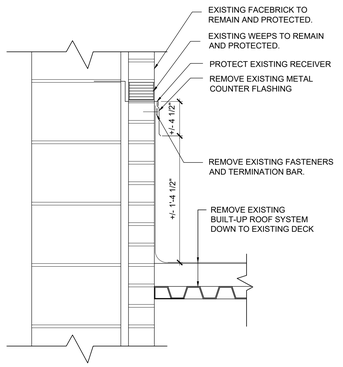

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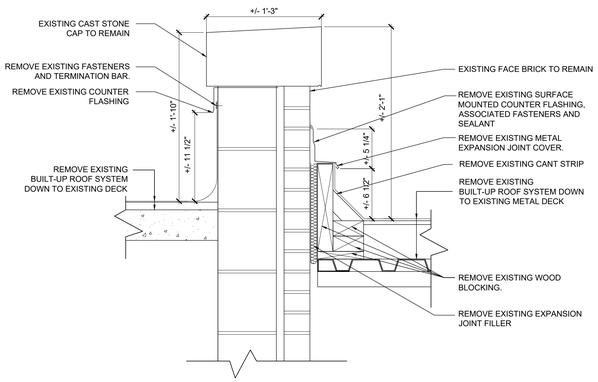

7 Demo Detail - Roof Parapet

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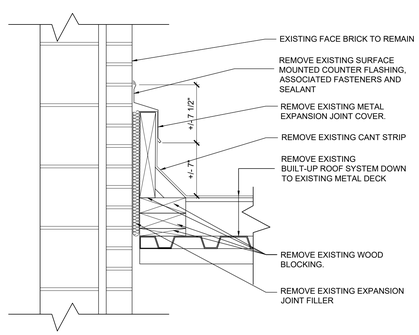

8 Demo Detail - Roof / Wall

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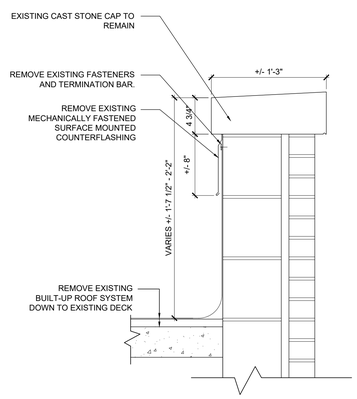

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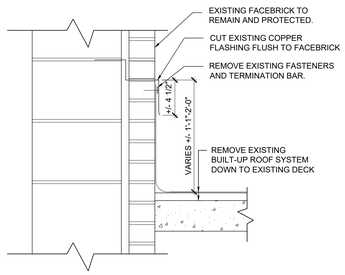
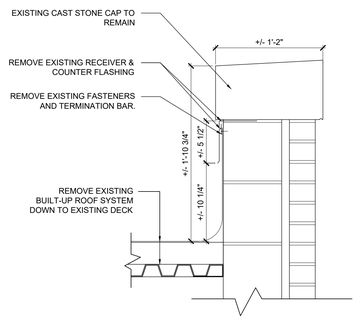


10 Demo Detail - Roof / Wall

SCALE: 1 1/2" = 1'-0"



11 Demo Detail - Roof Parapet

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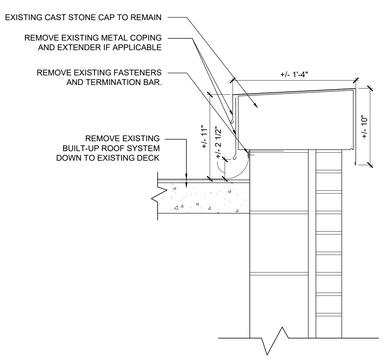
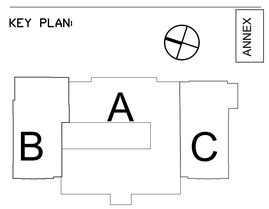


12 Demo Detail - Roof Parapet

SCALE: 1 1/2" = 1'-0"

KEY PLAN:



ANNEX

No.	Date	Description
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Drawing Information:
Project No: 25.024
Date: 07/10/2025
Drawn By: TC
Checked By: KG

Sheet Name:
ROOF DEMO DETAILS

Sheet No:
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Sheet 0 of 000

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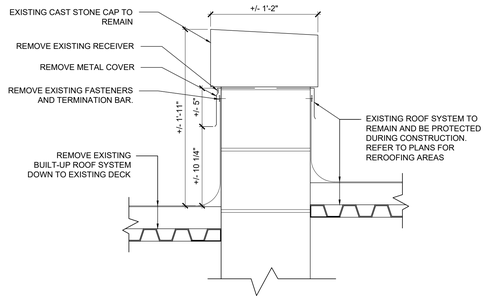

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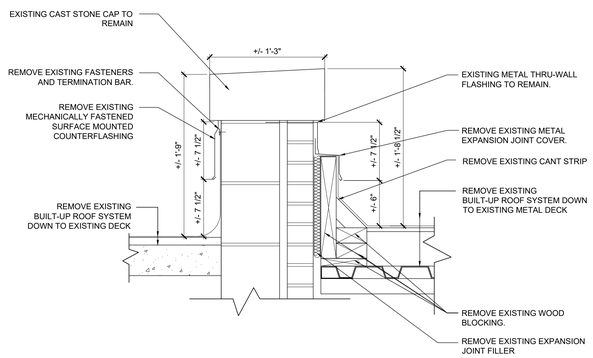

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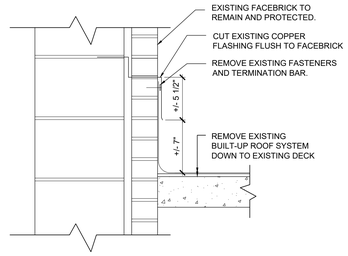

15 Demo Detail - Roof / Wall
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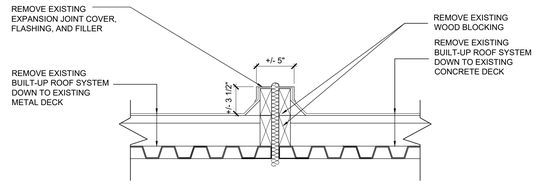

16 Demo Detail - Expansion Joint
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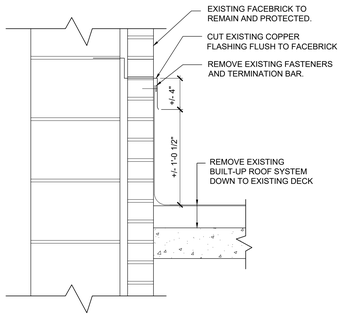

17 Demo Detail - Roof / Wall
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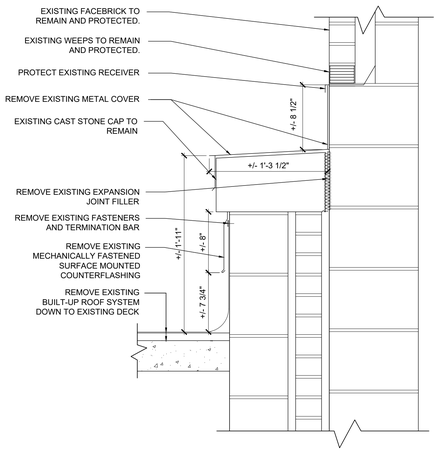

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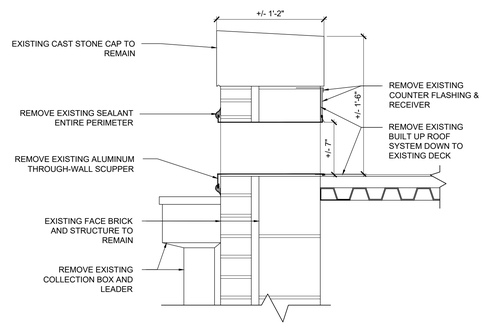

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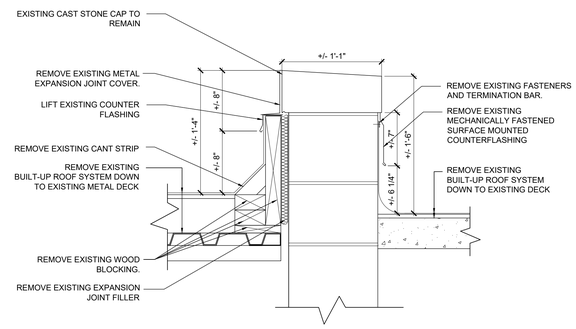

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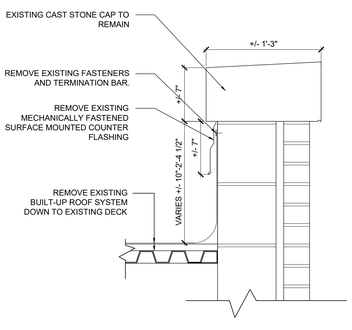

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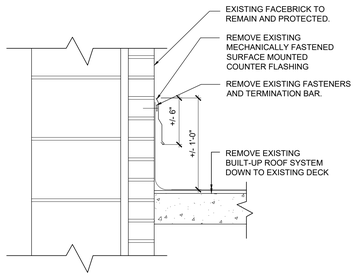

22 Demo Detail - Roof / Wall
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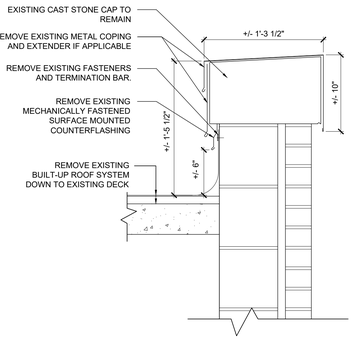

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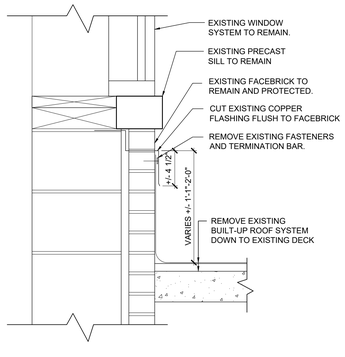

24 Demo Detail @ Window
SCALE: 1 1/2" = 1'-0"

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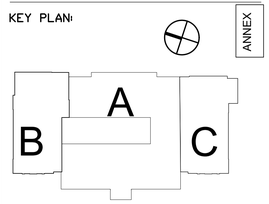

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Project No: 25.024
Date: 07/10/2025
Drawn By: TC
Checked By: KG

Sheet Name:
ROOF DEMO DETAILS

Sheet No:
A-702
Sheet 0 of 000

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25 Demo Detail - Roof Parapet

SCALE: 1 1/2" = 1'-0"

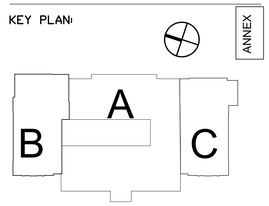
26 Demo Detail - Roof / Wall

SCALE: 1 1/2" = 1'-0"

27 Demo Detail - Roof Parapet

SCALE: 1 1/2" = 1'-0"

KEY PLAN:



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Sheet No:

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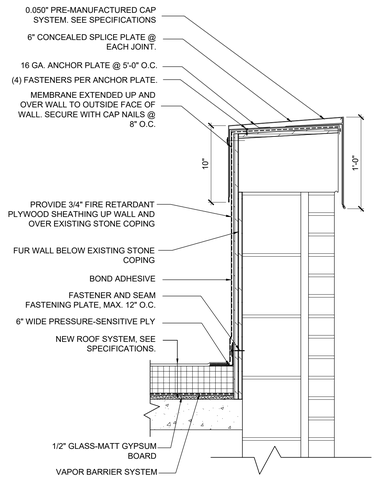
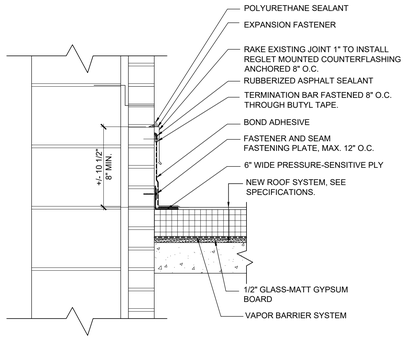


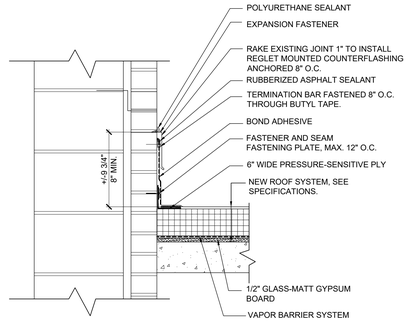
1 New Detail - Roof Parapet

SCALE: 1 1/2" = 1'-0"



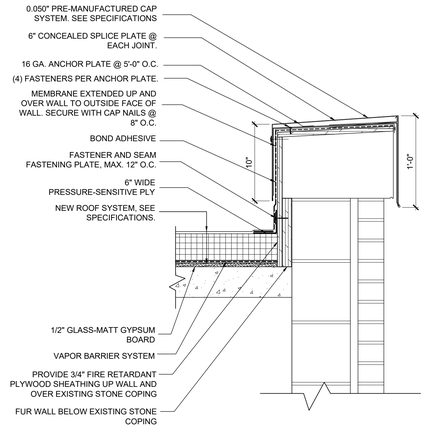
2 New Detail - Roof / Wall

SCALE: 1 1/2" = 1'-0"



3 New Detail - Roof / Wall

SCALE: 1 1/2" = 1'-0"



4 New Detail - Roof Parapet

SCALE: 1 1/2" = 1'-0"

5 New Detail - Roof Parapet

SCALE: 1 1/2" = 1'-0"

6 New Detail - Roof / Wall

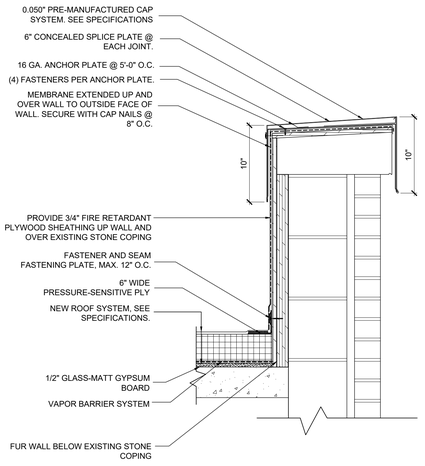
SCALE: 1 1/2" = 1'-0"

7 New Detail - Roof Parapet

SCALE: 1 1/2" = 1'-0"

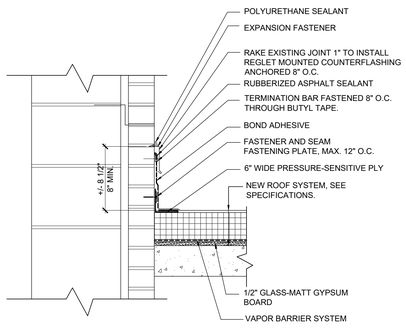
8 New Detail - Roof / Wall

SCALE: 1 1/2" = 1'-0"



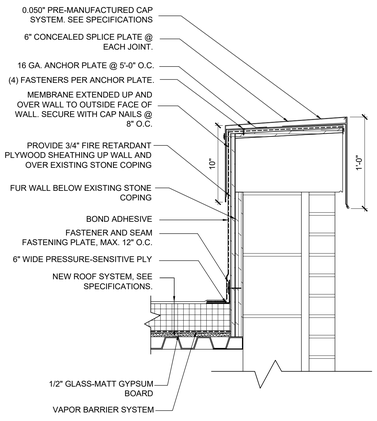
9 New Detail - Roof Parapet

SCALE: 1 1/2" = 1'-0"



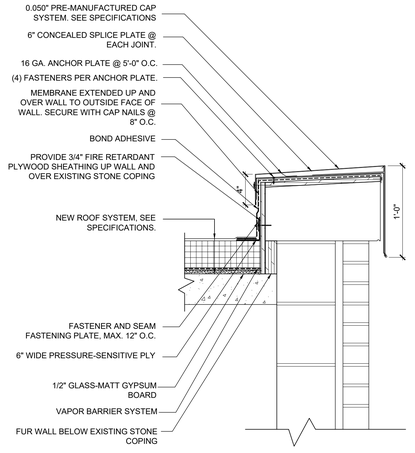
10 New Detail - Roof / Wall

SCALE: 1 1/2" = 1'-0"



11 New Detail - Roof Parapet

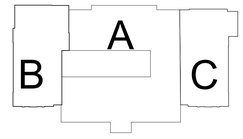
SCALE: 1 1/2" = 1'-0"



12 New Detail - Roof Parapet

SCALE: 1 1/2" = 1'-0"

KEY PLAN:



ANNEX

No.	Date	Revisions / Issues
	12/08/25	OUT TO BID
	12/03/25	DCA Submission

DIGroupArchitecture
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NJ RA AI 15023, NY RA 027416, PA RA 405474

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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date: 07/10/2025
Drawn By: TC
Checked By: KG

Sheet Name:
ROOF DETAILS

Sheet No:
A-711
Sheet 0 of 000

P:\2025\25-024 ROWAN GIS ROUND 5\DRAWINGS\CONDOCS\A700S ENLARGED DETAILS\

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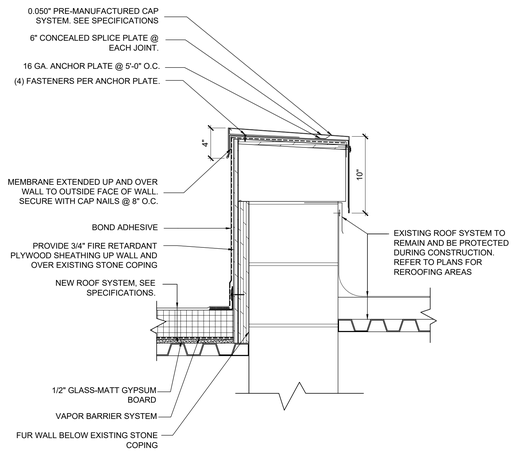
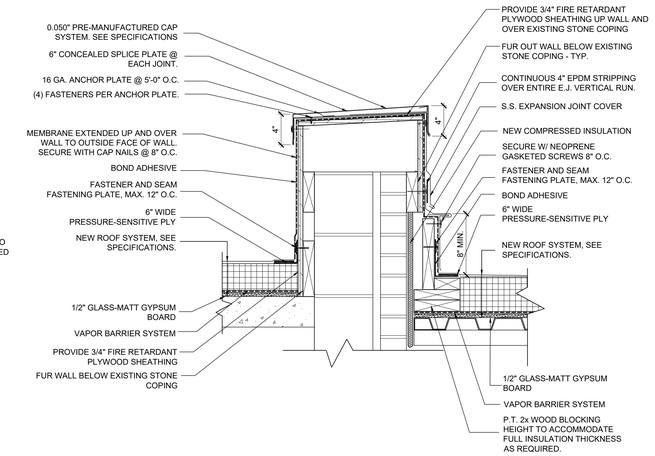


13 New Detail - Roof Parapet

SCALE: 1 1/2" = 1'-0"



14 New Detail - Roof Parapet

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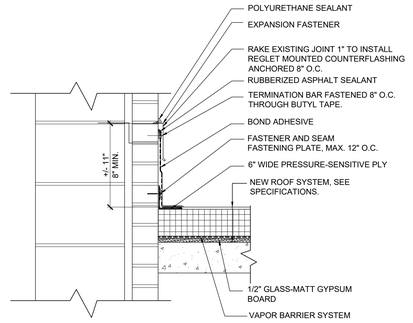

15 New Detail - Roof / Wall

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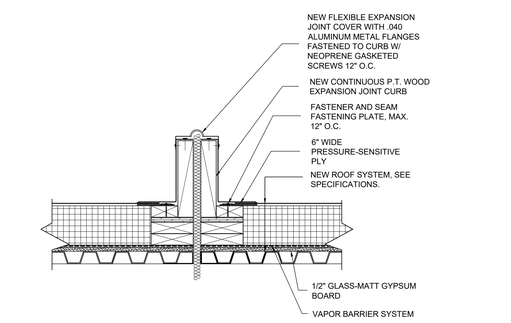

16 New Detail - Expansion Joint

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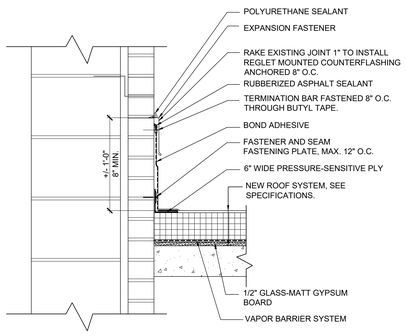

17 New Detail - Roof / Wall

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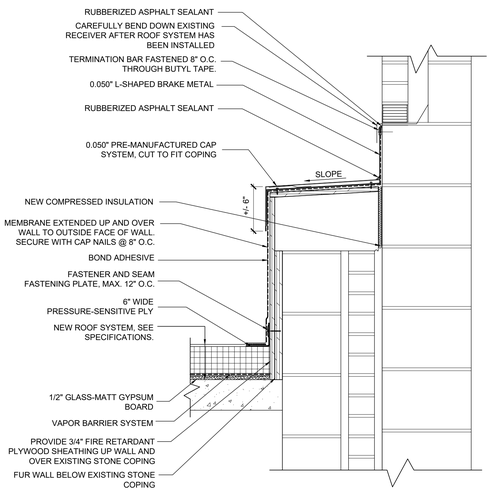

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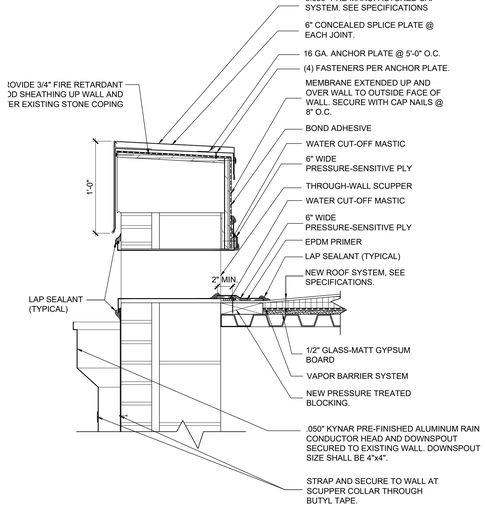

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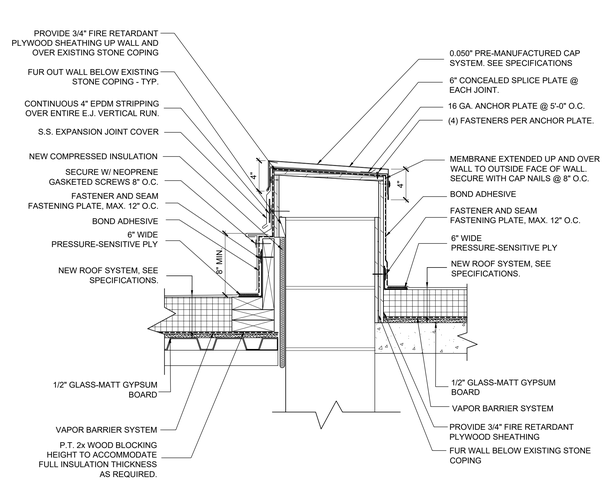

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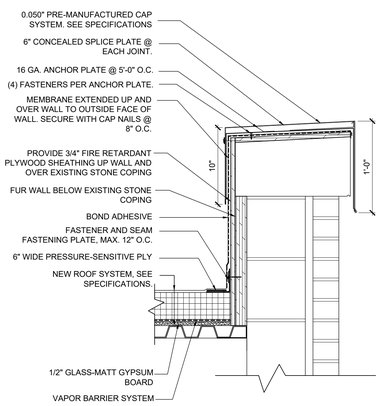

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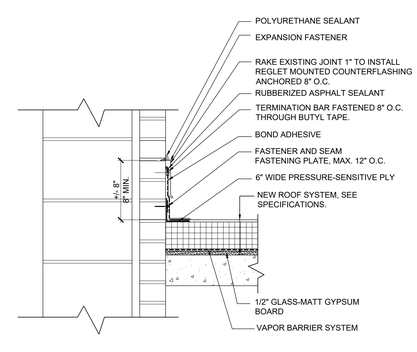
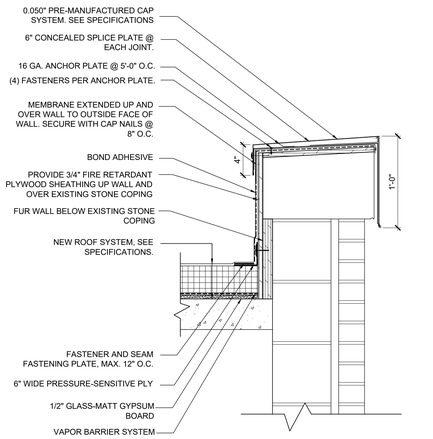


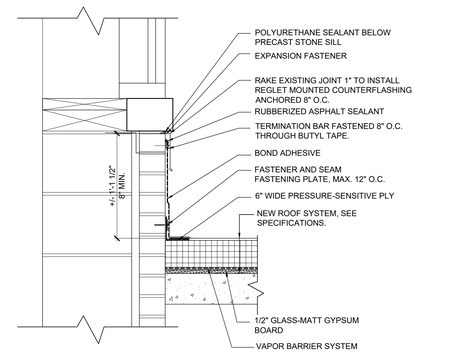
22 New Detail - Roof / Wall

SCALE: 1 1/2" = 1'-0"



23 New Detail - Roof Parapet

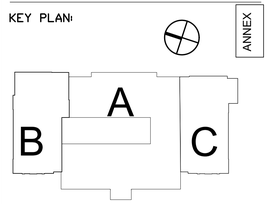
SCALE: 1 1/2" = 1'-0"



24 New Detail @ Window

SCALE: 1 1/2" = 1'-0"

KEY PLAN:



No.	Date	Description
	12/08/25	OUT TO BID
	12/03/25	DCA Submission

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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date: 07/10/2025
Drawn By: TC
Checked By: KG

Sheet Name:
ROOF DETAILS

Sheet No:
A-712
Sheet 0 of 000

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P:\2025\25.024 ROWAN SID BUILDINGS\CONDOCS\A700S ENLARGED DETAILS\

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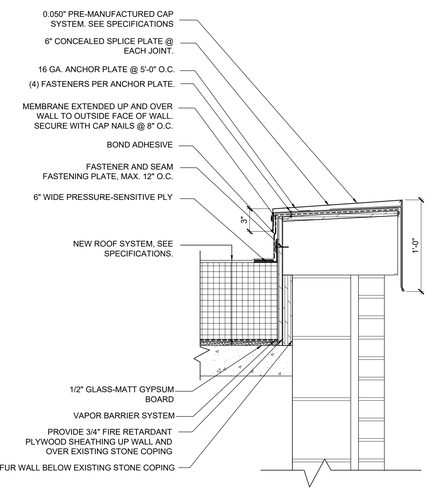
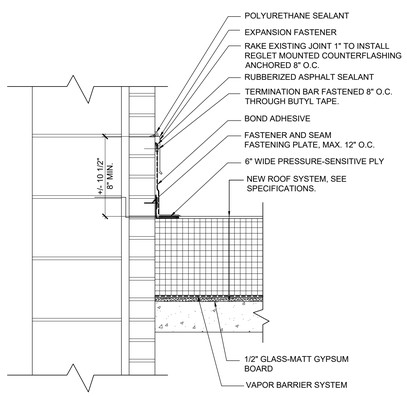


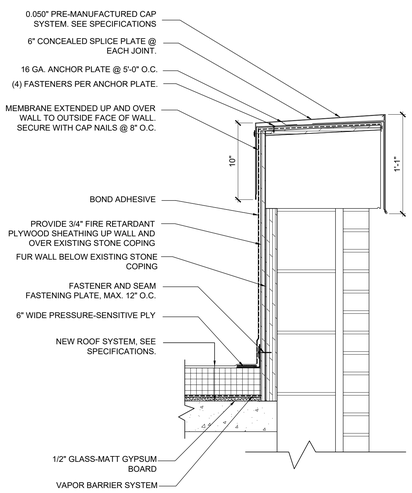
25 New Detail - Roof Parapet

SCALE: 1 1/2" = 1'-0"



26 New Detail - Roof / Wall

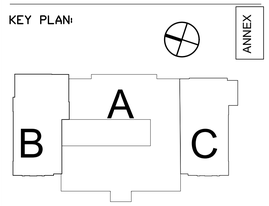
SCALE: 1 1/2" = 1'-0"



27 New Detail - Roof Parapet

SCALE: 1 1/2" = 1'-0"

KEY PLAN:



No.	Date	Description
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	12/03/25	DCA Submission

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NJ RA AI 15023, NY RA 027416, PA RA 405474

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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date: 07/10/2025
Drawn By: TC
Checked By: KG

Sheet Name:
ROOF DETAILS

Sheet No:
A-713
Sheet 0 of 000

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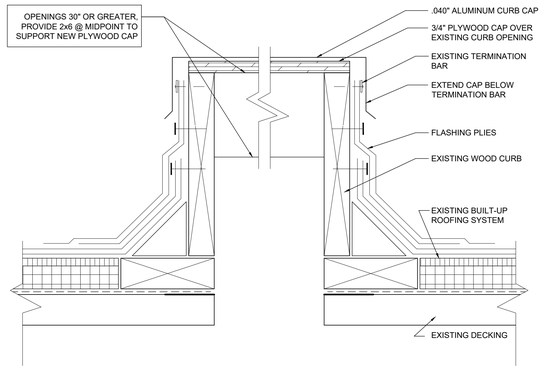

1 Curb Cap Detail
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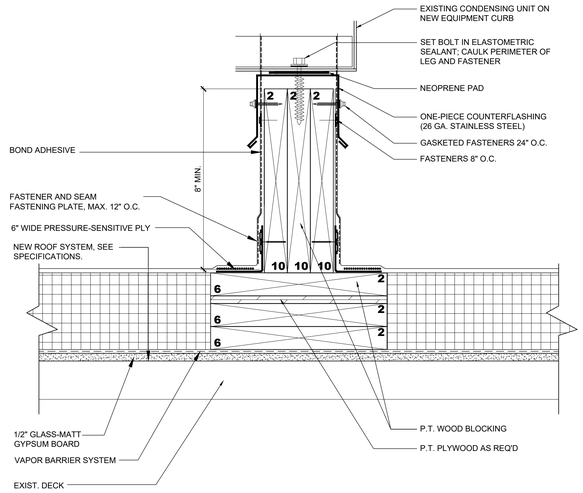

2 Mechanical Unit Rail Detail
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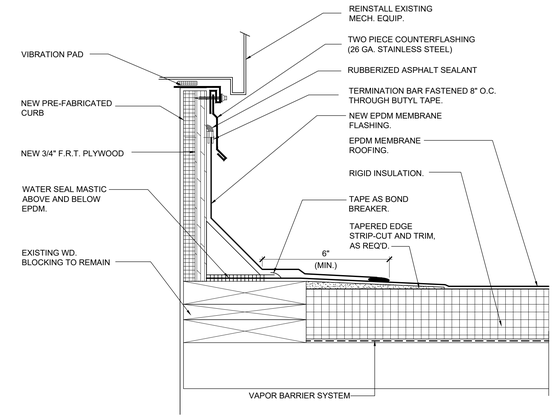
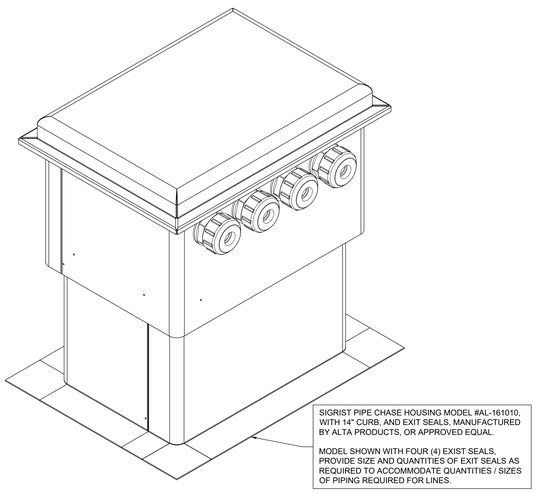


3 Prefab Curb Detail
SCALE: 3" = 1'-0"



4 Pipe Portal Detail
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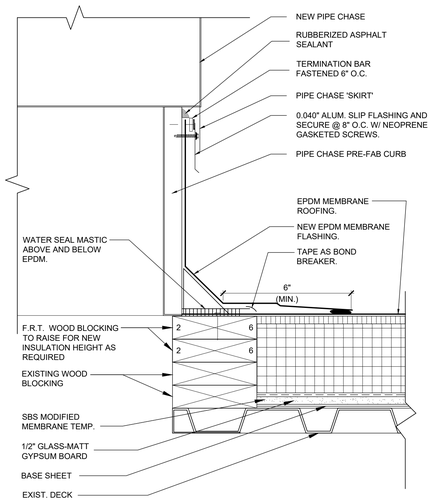

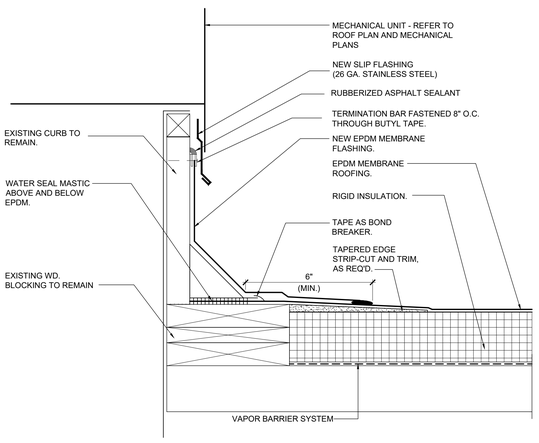

5 Existing Curb Detail
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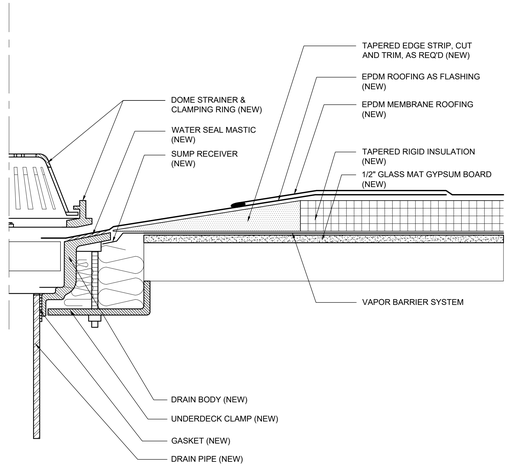
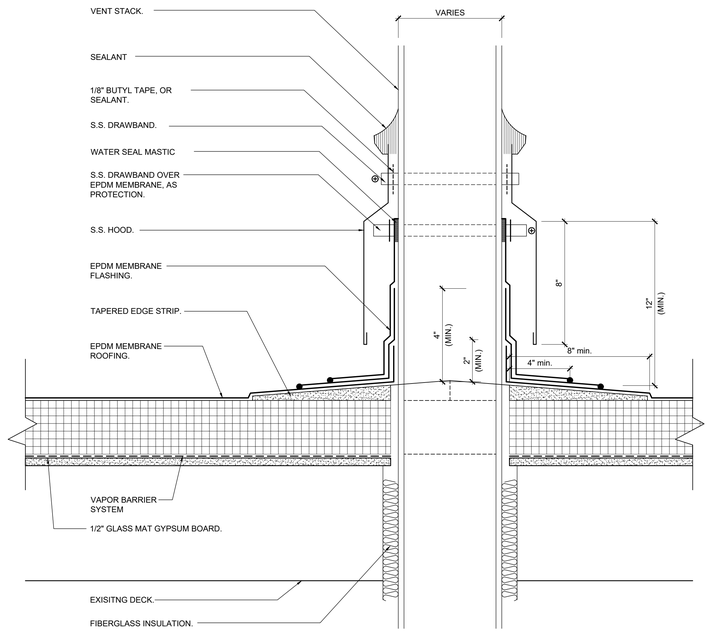
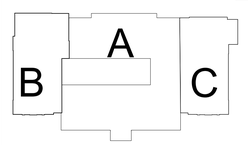


6 Roof Drain Detail
SCALE: 3" = 1'-0"



7 Vent Pipe Detail
SCALE: 3" = 1'-0"

KEY PLAN:



No.	Date	Description
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Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date: 06/16/2025
Drawn By: TC
Checked By: KG

Sheet Name:
TYPICAL ROOF DETAILS

Sheet No:
A-720
Sheet 0 of 000

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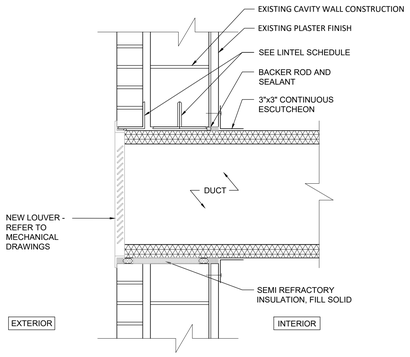

4 New Louver Detail
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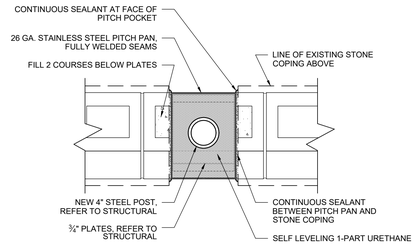

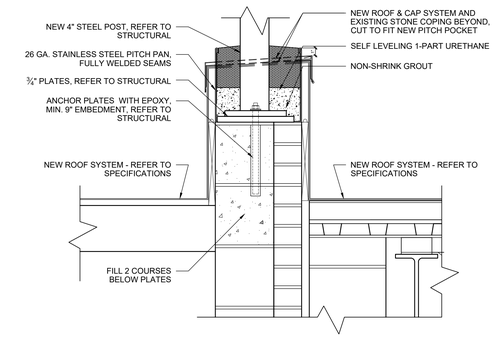

5 Parapet Dunnage Detail
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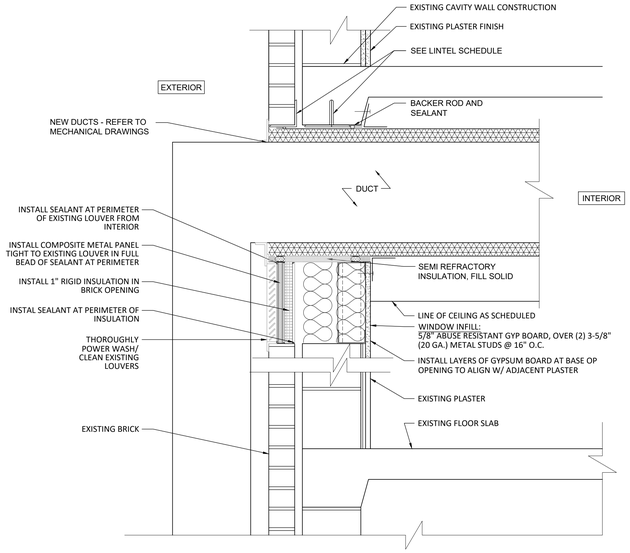

6 Window Infill with Louver Detail
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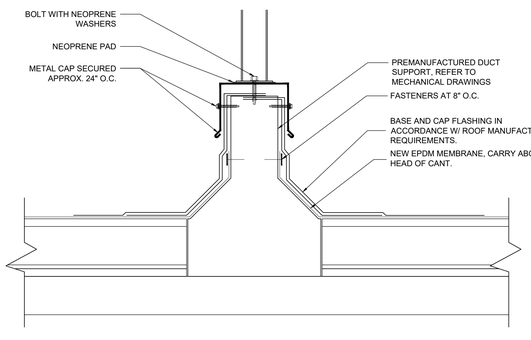

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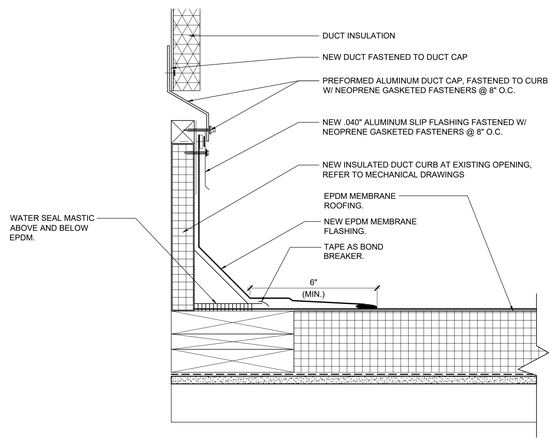
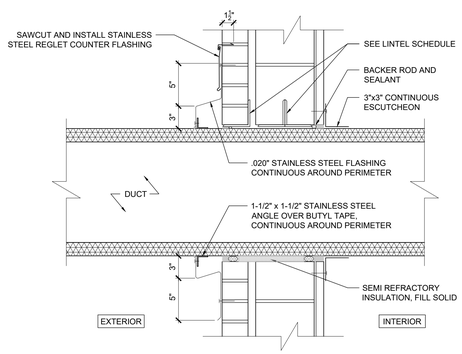
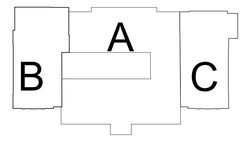


2 Duct Through Roof Detail
SCALE: 3" = 1'-0"



3 Duct Penetration Detail
SCALE: 1-1/2" = 1'-0"

KEY PLAN:



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NJ RA AI 15023, NY RA 027416, PA RA 405474

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Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date: 06/16/2025
Drawn By: TC
Checked By: KG

Sheet Name:
TYPICAL ROOF DETAILS

Sheet No:
A-721
Sheet 0 of 000

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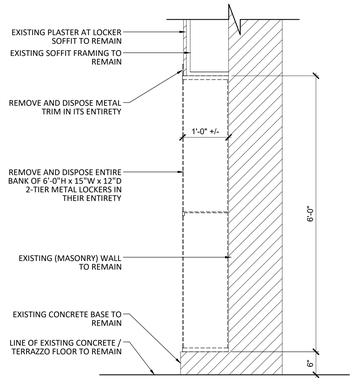
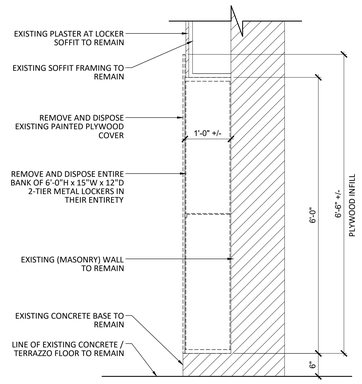
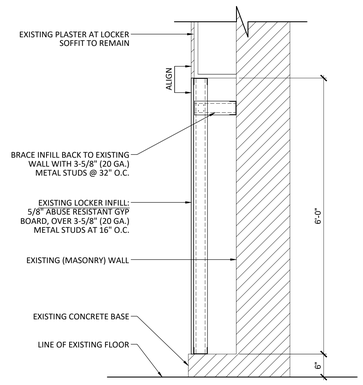


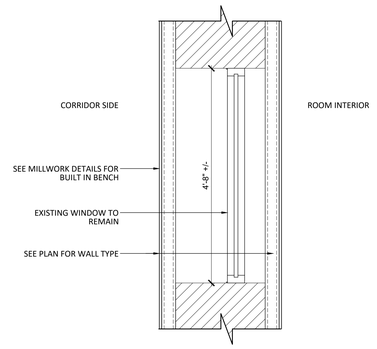
1 Existing Locker Demo Detail
SCALE: 3/4" = 1'-0"



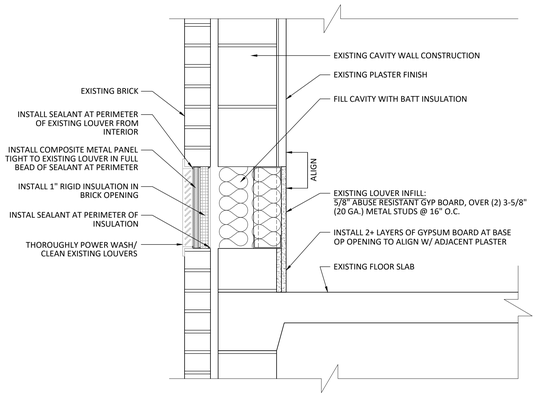
2 Existing Locker Demo Detail
SCALE: 3/4" = 1'-0"



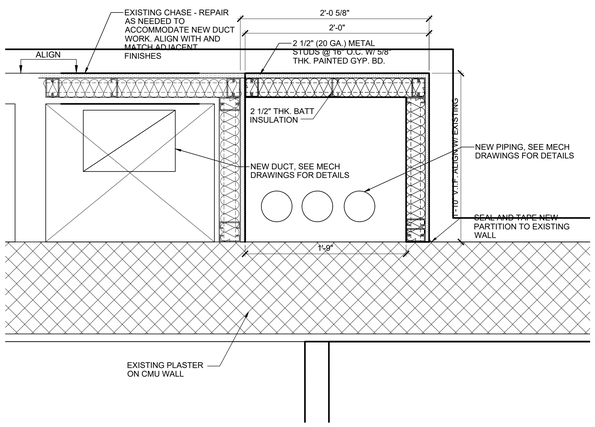
3 New Locker Infill Detail
SCALE: 3/4" = 1'-0"



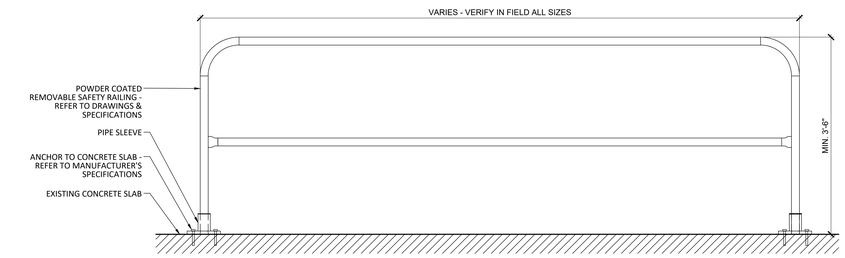
4 WINDOW INFILL DETAIL
SCALE: 3/4" = 1'-0"



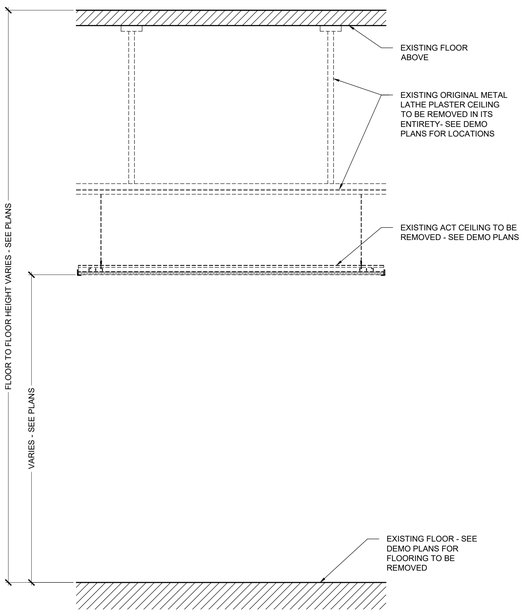
5 Louver Infill Detail
SCALE: 1 1/2" = 1'-0"



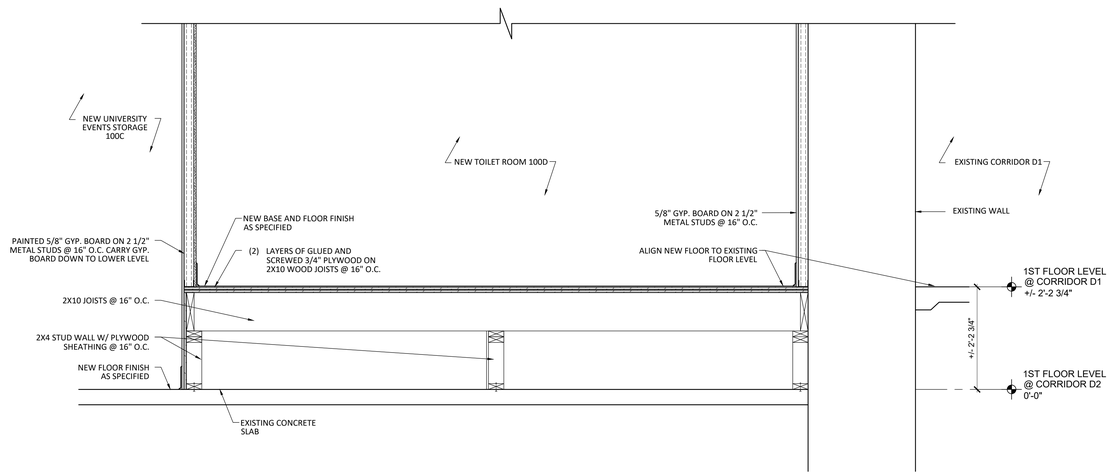
7 Typical Plan Detail
SCALE: 1 1/2" = 1'-0"



8 Railing Elevation Detail
SCALE: 3/4" = 1'-0"

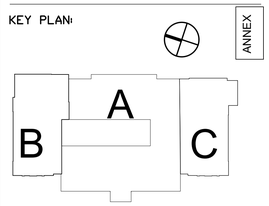


6 Original Plaster Ceiling Demo Detail
SCALE: 3/4" = 1'-0"



9 Raised Floor Detail @ New Toilet Rms
SCALE: 3/4" = 1'-0"

KEY PLAN:



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202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date: 05/19/2023
Drawn By: TC
Checked By:

Sheet Name:
PLAN & MISC. DETAILS

Sheet No:
A-730
Sheet 0 of 000

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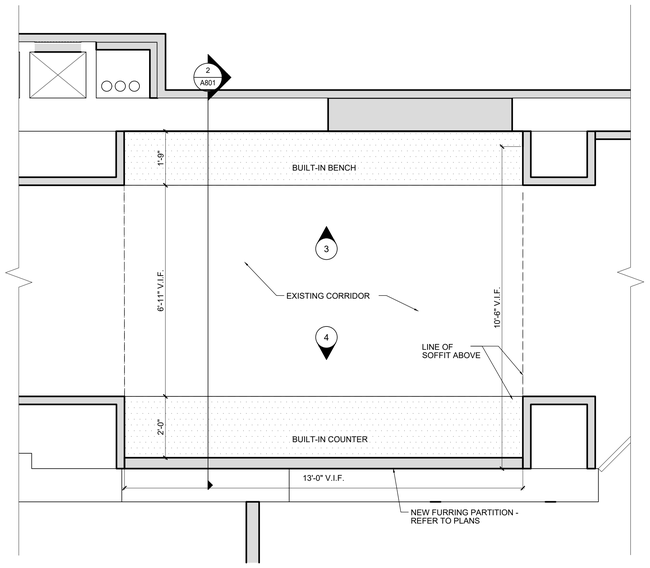
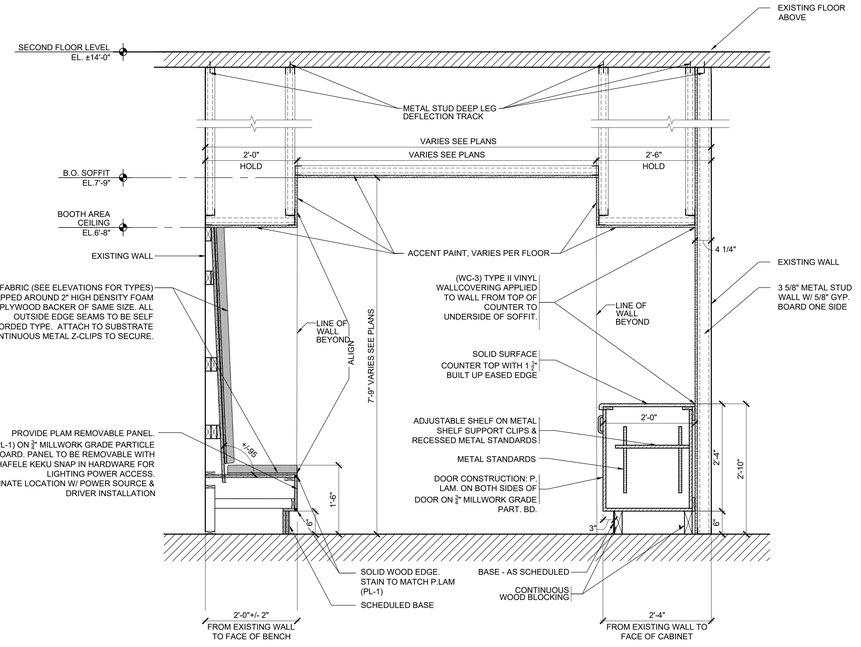


1 Built-In Bench/Counter 1st Fl Corridor Plan

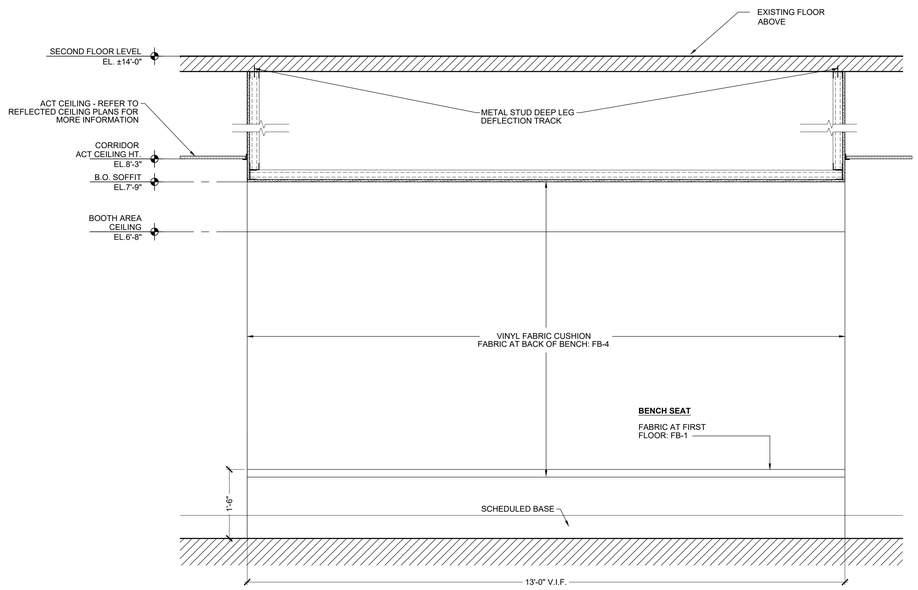
SCALE: 1/2" = 1'-0"



2 Built-In Bench - Counter Across Corridor Section

SCALE: 3/4" = 1'-0"

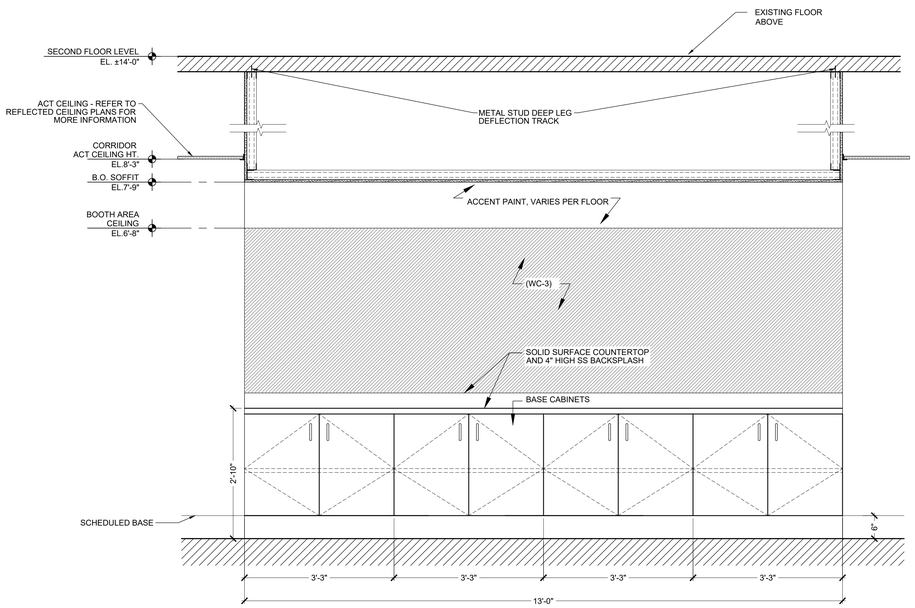
NOTE : SEE PLAN FOR ALIGNMENT TO EXISTING WALL



TYPICAL BENCH ELEVATION

3 Typical Built-In Bench Elevation

SCALE: 3/4" = 1'-0"

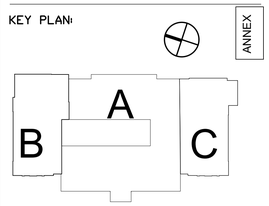


TYPICAL COUNTER ELEVATION

4 Typical Counter Elevation

SCALE: 3/4" = 1'-0"

KEY PLAN:



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Drawing Information:
Project No: 25.024
Date: 06/16/2022
Drawn By: TC
Checked By:

Sheet Name:
TYPICAL BUILT-IN BENCH & COUNTER PLAN, SECTIONS & ELEVATIONS

Sheet No:
A-801
Sheet 0 of 000

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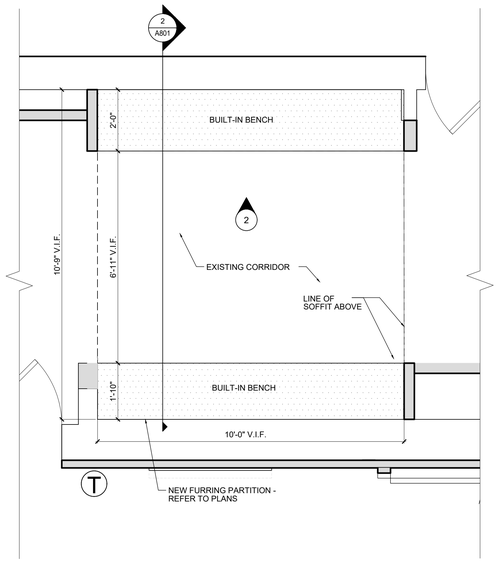
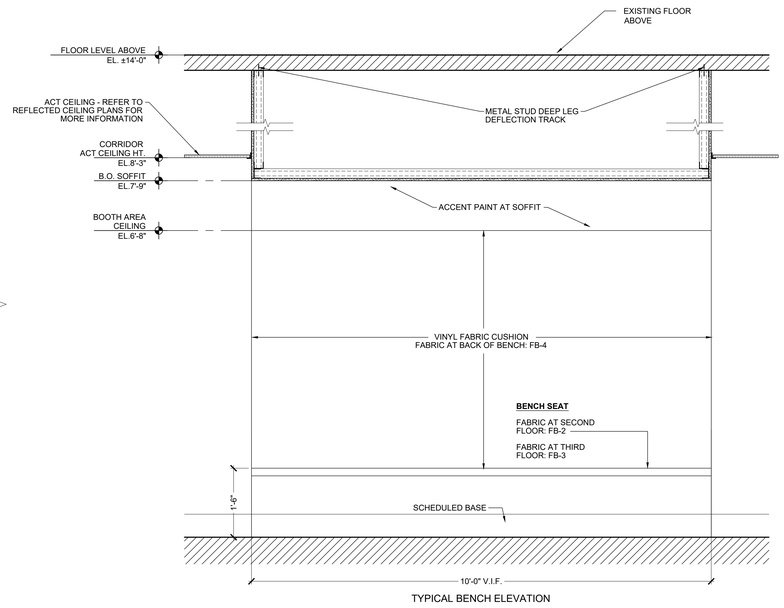
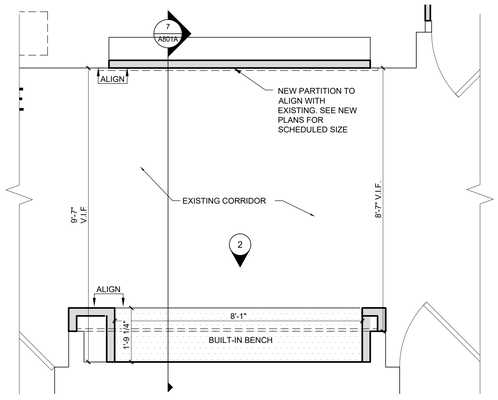




TYPICAL BENCH ELEVATION

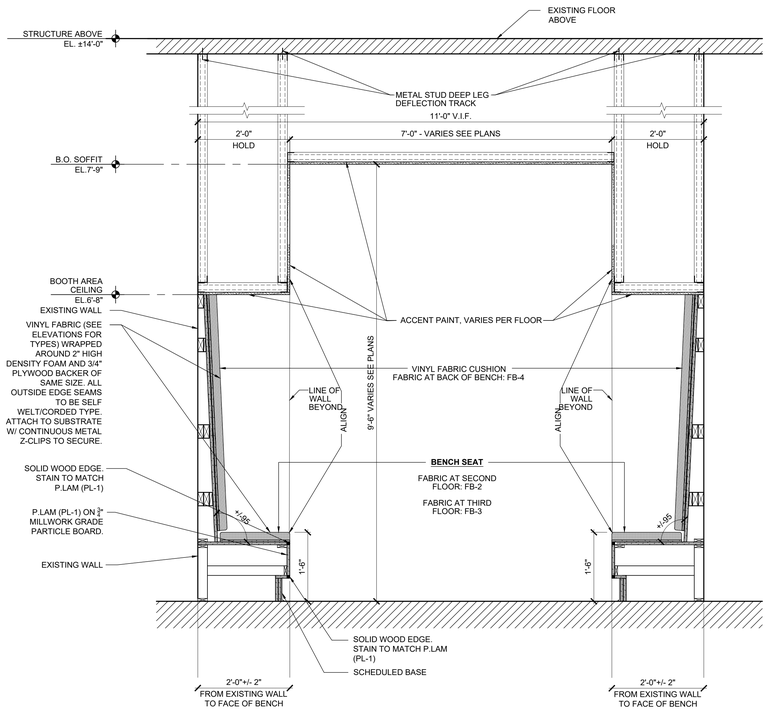
1 Built-In Bench/Counter 2nd Fl Corridor Plan

SCALE: 1/2" = 1'-0"



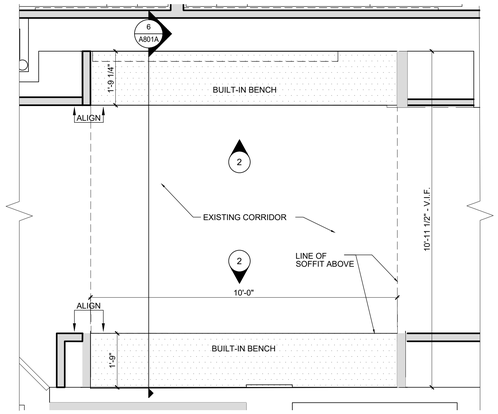
2 Typical Built-In Bench Elevation

SCALE: 3/4" = 1'-0"



4 Built-In Bench 3rd Fl Corridor Plan

SCALE: 1/2" = 1'-0"



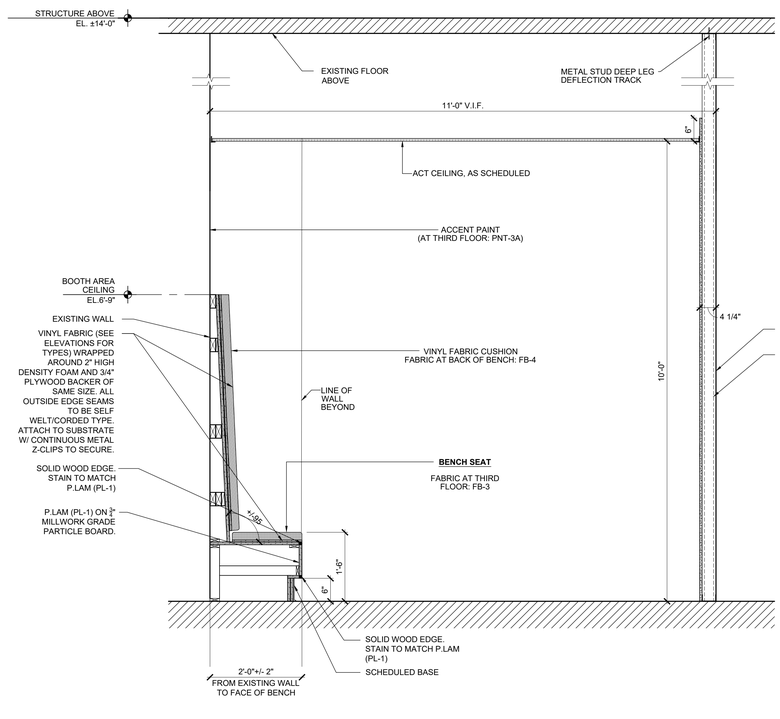
5 Double Built-In Bench 3rd Fl Corridor Plan

SCALE: 1/2" = 1'-0"

6 Double Built-In Bench Section

SCALE: 3/4" = 1'-0"

NOTE : SEE PLAN FOR ALIGNMENT TO EXISTING WALL

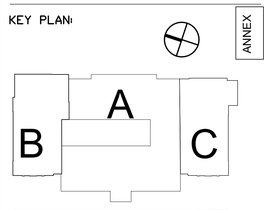


7 Single Built-In Bench Section

SCALE: 3/4" = 1'-0"

NOTE : SEE PLAN FOR ALIGNMENT TO EXISTING WALL

KEY PLAN:



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Drawing Information:

Project No: 25.024
Date: 06/16/2022
Drawn By: TC
Checked By:

Sheet Name:

TYPICAL BUILT-IN BENCH PLANS, SECTIONS CONT'D

Sheet No:

A-801A

Sheet 0 of 000

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MILLWORK CONSTRUCTION NOTES

1. EXPOSED SURFACES ON ALL MILLWORK TO BE HIGH PRESSURE PLASTIC LAMINATE. ARCHITECT TO SELECT COLORS. INSTALL PREMIUM GRADE ON SURFACES AS SCHEDULED.
2. ALL DIMENSIONS ARE TO BE VERIFIED IN FIELD (V.I.F.) PRIOR TO FABRICATION. REFER TO OVERALL FLOOR PLANS FOR PROPER ORIENTATION OF MILLWORK ITEM. NOTIFY ARCHITECT IN WRITING IMMEDIATELY IF ANY DISCREPANCIES OCCUR.
3. ALL SINKS LOCATED ON THIS DRAWING SHALL BE SUPPLIED AND INSTALLED BY THE PLUMBING CONTRACTOR. MILLWORKER SHALL CUT & COORDINATE SINK SIZE & EXACT LOCATION WITH PLUMBING CONTRACTOR.
4. WHERE MILLWORK IS SET WITHIN A ROUGH OPENING, CONTRACTOR MUST PROVIDE FINISH TRIM OR SCRIBE CLOSURE PIECES AS REQUIRED. VERIFIED IN FIELD (V.I.F.) ALL CONDITIONS PRIOR TO FABRICATION.
5. ALL CABINET DOORS AND DRAWERS TO BE PROVIDED AND INSTALLED WITH LOCKS. MASTERKEYING TO BE SELECTED BY OWNER.
6. GENERAL CONTRACTOR TO COORDINATE WITH MILLWORKER AND ELECTRICAL CONTRACTOR LOCATIONS OF ANY ELECTRICAL RECEPTACLES, UNDER CABINET LIGHTING OR DEVICES TO BE INSTALLED INTO OR ON MILLWORK.
7. ALL MILLWORK SHALL BE MANUFACTURED AS PER AWI ARCHITECTURAL WOODWORK STANDARDS.
8. 3MM PVC EDGE BANDING TO BE APPLIED TO ALL EXPOSED EDGES UNLESS OTHERWISE NOTED, INCLUDING BUT NOT LIMITED TO: DRAWERS, DOORS AND CABINET EDGES TO MATCH PLASTIC LAMINATE COLOR. MILLWORKER SO SUBMIT THREE (3) MATCHING 3MM PVC EDGE BANDING SAMPLE TO ARCHITECT TO FINALIZE COLORS DURING SUBMITTAL PROCESS.
9. REFER TO ELEVATIONS FOR FINISH TYPE UNLESS OTHERWISE NOTED. COORDINATE FINISHES WITH PROVIDED ON FINISH SCHEDULE & FINISH SPECIFICATIONS.
10. REFER TO TECHNICAL SPECIFICATIONS BOOK FOR ADDITIONAL PRODUCT INFORMATION NOT INDICATED ON MILLWORK AND / OR FINISH DRAWINGS
11. FURNISH AND INSTALL PLASTIC LAMINATE FACED FINISHED END PANELS, FILLER PANELS, AND FASCIAS, OF ADJACENT SPECIFIED PLASTIC LAMINATE TYPE TO CLOSE OFF ALL ELEVATIONS.
12. THE FOLLOWING SUBMITTALS SHALL BE MADE BY THE MILLWORKER PRIOR TO FABRICATION OF ANY MILLWORK:
    - 12.1. SHOP DRAWINGS SHOWING LOCATION OF EACH ITEM, DIMENSIONED PLANS AND ELEVATIONS, LARGE-SCALE DETAILS, ATTACHMENT DEVICES, HARDWARE & ACCESSORY CUT SHEETS, AND OTHER COMPONENTS AS REQUIRED SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO FABRICATION.
13. SAMPLES FOR VERIFICATION PURPOSES OF THE FOLLOWING:
    - 13.1. LAMINATE CLAD PANEL PRODUCTS, 8-1/2 INCHES, BY 11 INCHES FOR EACH TYPE, COLOR, PATTERN, AND SURFACE FINISH, WITH SEPARATE SAMPLES OF UNFACED PANEL PRODUCT USED FOR CORE.
    - 13.2. SOLID SURFACE MATERIALS, 6 INCHES BY 6 INCHES FOR EACH TYPE, COLOR, PATTERN, AND SURFACE FINISH
    - 13.3. CABINET HARDWARE, ONE UNIT OF EACH TYPE AND FINISH.
14. ALL WOOD MATERIAL SHALL BE FIRE RETARDANT-TREATED WOOD AS REQUIRED BY CODE. GC TO SUBMIT ALL FIRE RETARDANT WOOD TREATMENT CERTIFICATIONS AS REQUIRED TO OWNER AND LOCAL BUILDING DEPARTMENT.
15. ALL MILLWORK, FILE CABINETS, SHELVING AND FURNITURE OVER 4'-0" HIGH SHALL BE ATTACHED (SCREWED) TO WALL.

HARDWARE & ACCESSORIES

1. FULLY CONCEALED EUROPEAN SELF CLOSING HINGE, FOR FLUSH OVERLAY DOORS - 175 DEGREE OPENING BHMA A156.9, B01521
2. CATCHES: MAGNETIC CATCHES, BHMA A156.9, B03141
3. ADJUSTABLE SHELF STANDARDS AND SUPPORTS: BHMA A156.9, B04102 WITH SHELF BRACKETS, B04112. METAL SHELF STANDARDS RECESSED INTO CABINET SIDES AND ADJUSTABLE METAL SHELF CLIPS.
4. DRAWER SLIDES: SIDE-MOUNTED, FULL-EXTENSION, ZINC-PLATED STEEL DRAWER SLIDES WITH STEEL BALL BEARINGS, BHMA A156.9, B05091, AND RATED FOR THE FOLLOWING LOADS:
    - a. BOX DRAWER SLIDES: 100 lbf.
    - b. FILE DRAWER SLIDES: 200 lbf.
    - c. KEYBOARD SLIDES: 75 lbf.
5. DOOR LOCKS, BHMA A156.11, E07121
6. DRAWER LOCKS, BHMA A156.11, B07041
7. CABINET DOOR & DRAWER PULLS SHALL BE OF THE FOLLOWING AS INDICATED ON ELEVATIONS, SECTIONS & DETAILS:

    CABINET DOOR PULL (U.O.N.):
    MANUF.: MOCKETT INDUSTRIES
    SERIES: DP252A - SLENDER BAR PULL
    MODEL NO.: DP252A
    LENGTH: 5-3/8" LONG (MEETS ADA GUIDELINES)
    FINISH: MATTE BLACK

    CABINET DRAWER PULL (U.O.N.):
    MANUF.: MOCKETT INDUSTRIES
    MANUF.: MOCKETT INDUSTRIES
    SERIES: DP252A - SLENDER BAR PULL
    MODEL NO.: DP252A
    LENGTH: 5-3/8" LONG (MEETS ADA GUIDELINES)
    FINISH: MATTE BLACK

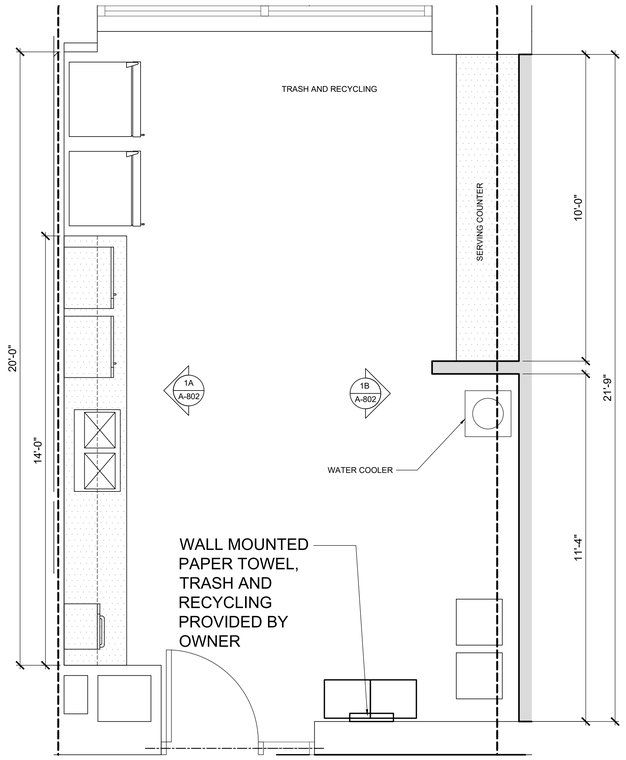
8. GROMMETS FOR CABLE PASSAGE THROUGH COUNTERTOPS: QUANTITY AS INDICATED ON DRAWINGS OR A MINIMUM OF ONE (1) PER EVERY THREE(3) LINEAR FEET OF COUNTER WHERE NOT INDICATED.

    OPEN WORK AREA GROMMETS:
    MANUF.: MOCKETT INDUSTRIES
    SERIES: GROMMETS & WIRE MANAGEMENT
    PRODUCT: "THE MAX" SMALL SQUARE GROMMET
    MODEL NO.: MAX2/A-94
    FINISH: ARCHITECT TO SELECT FROM SILL LINE OF MANUF. STANDARD FINISHES DURING SUBMITTAL REVIEW.

9. UNDER COUNTER WALL BRACKETS SHALL BE SIZED ACCORDINGLY BY THE MILLWORKER PER THE FOLLOWING SPECIFICATIONS. MILLWORKER SHALL SIZE ACCORDINGLY BASED ON SPAN AND WEIGHT OF WORK SURFACE.

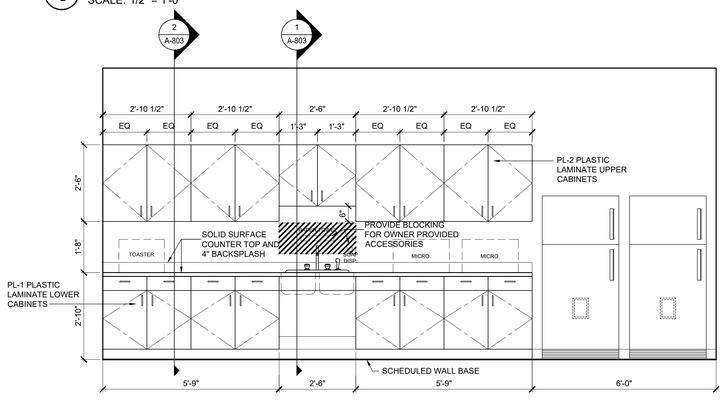
    ALL BRACKETS SHALL BE:
    MANUF.: A & M HARDWARE
    PRODUCT: WORK STATION BRACKETS
    SERIES: 304 STAINLESS STEEL BRACKETS
    COLOR: ARCHITECT TO SELECT FROM SILL LINE OF MANUF. STANDARD FINISHES DURING SUBMITTAL REVIEW.

10. EXPOSED HARDWARE FINISHES NOT ALREADY SPECIFIED: FOR EXPOSED HARDWARE, PROVIDE FINISH THAT COMPLIES WITH BHMA A156.18 FOR BHMA FINISH NUMBER INDICATED.
    - 12.1. SATIN CHROMIUM PLATED: BHMA 652 FOR STEEL BASE
    - 12.2. SATIN STAINLESS STEEL: BHMA 630



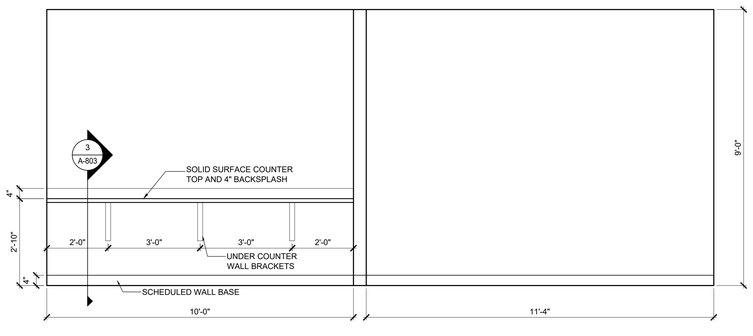
1 107 Shared Kitchen - Millwork

SCALE: 1/2" = 1'-0"



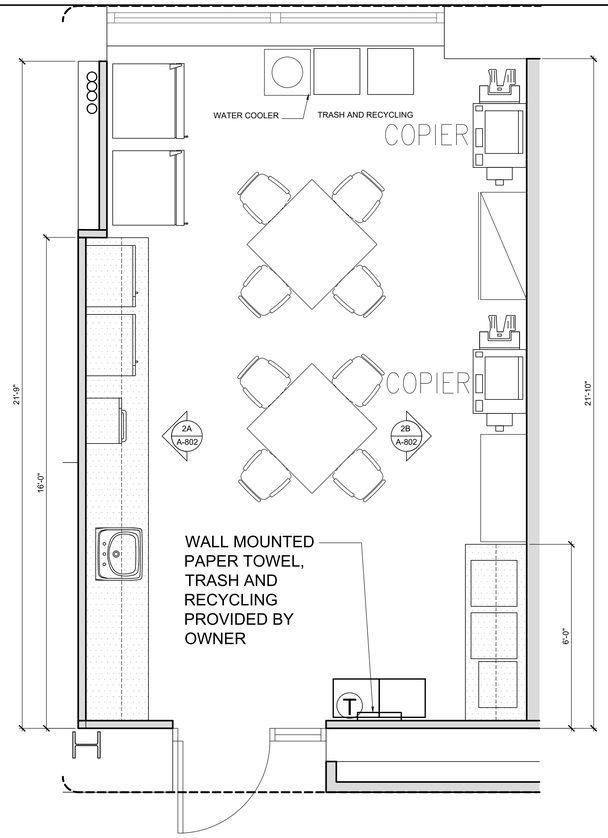
1A 107 Shared Kitchen - Millwork

SCALE: 1/2" = 1'-0"



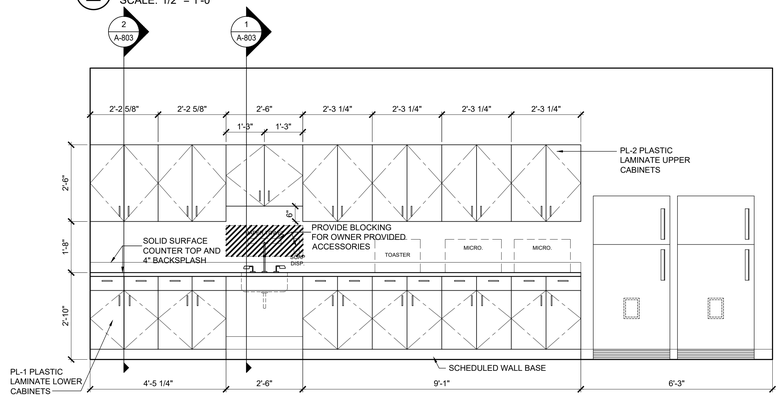
1B 107 Shared Kitchen - Millwork

SCALE: 1/2" = 1'-0"



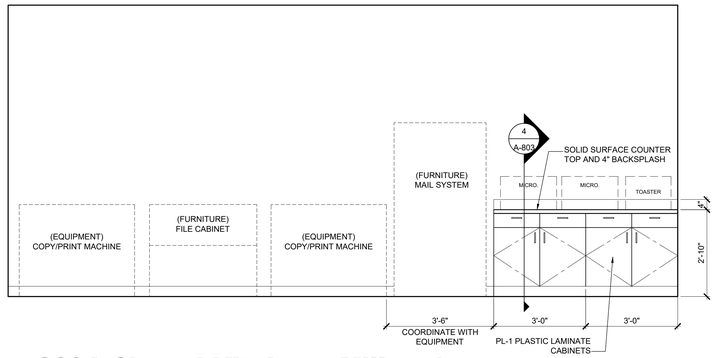
2 209A Shared Kitchen - Millwork

SCALE: 1/2" = 1'-0"



2A 209A Shared Kitchen - Millwork

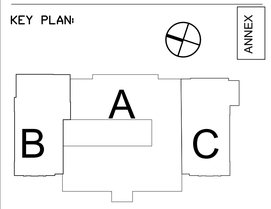
SCALE: 1/2" = 1'-0"



2B 209A Shared Kitchen - Millwork

SCALE: 1/2" = 1'-0"

KEY PLAN:



No.	Date	Description
	12/08/25	OUT TO BID
	12/03/25	DCA Submission

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Glassboro, NJ 08028

Project:

Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:

Project No: 25.024
Date: 06/16/2022
Drawn By: TC
Checked By:

Sheet Name:

ENLARGED KITCHEN PLANS & ELEVATIONS

Sheet No:

A-802

Sheet 0 of 000

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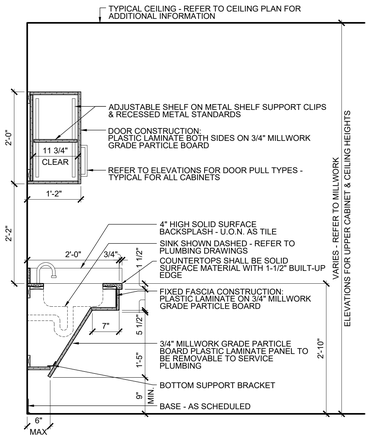
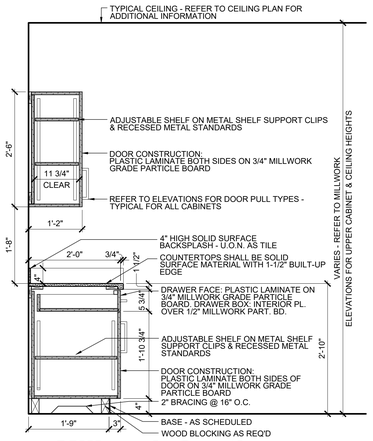


1 Millwork Section

SCALE: 3/4" = 1'-0"



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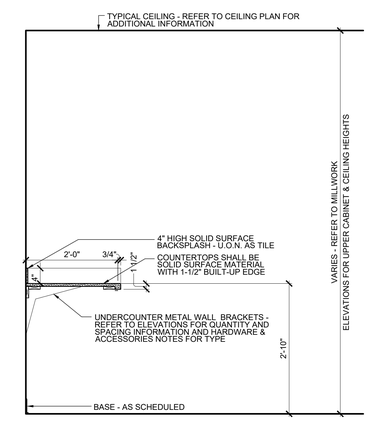
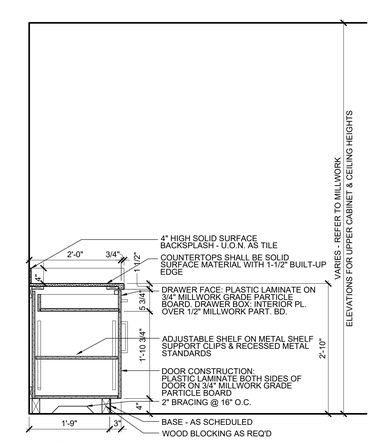


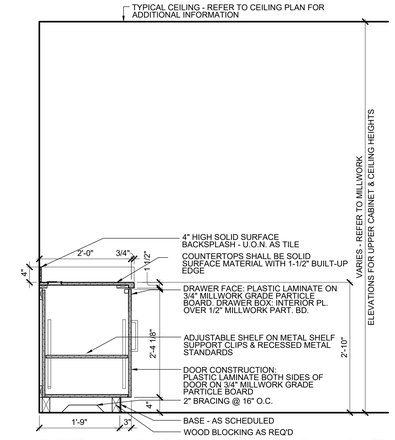
3 Millwork Section

SCALE: 3/4" = 1'-0"



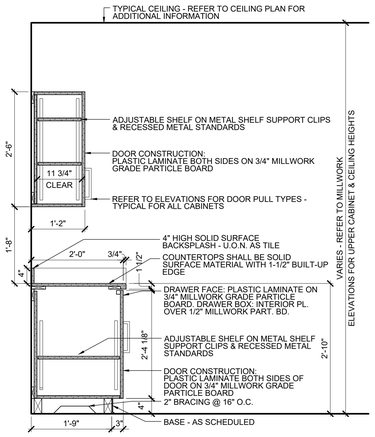
4 Millwork Section

SCALE: 3/4" = 1'-0"



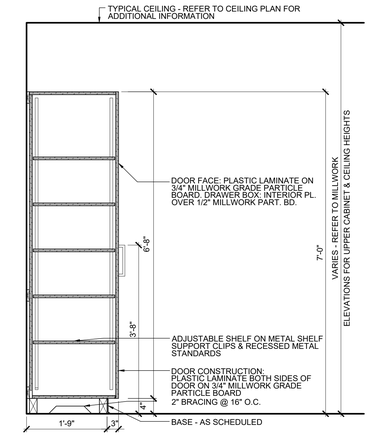
5 Millwork Section @ Conf. Rm

SCALE: 3/4" = 1'-0"



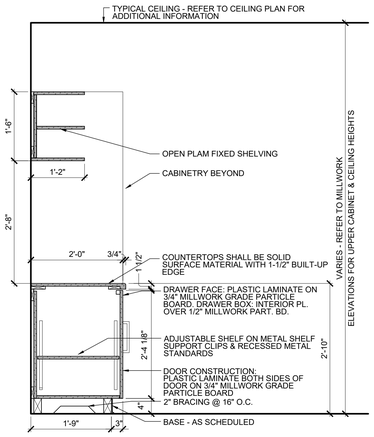
6 Millwork Section

SCALE: 3/4" = 1'-0"



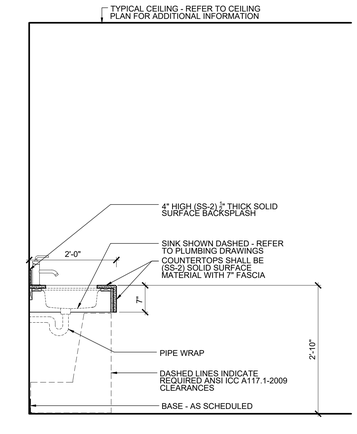
7 Millwork Section

SCALE: 3/4" = 1'-0"



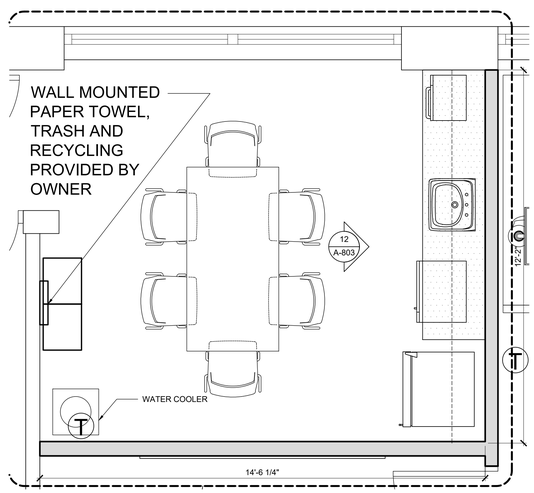
8 Millwork Section

SCALE: 3/4" = 1'-0"



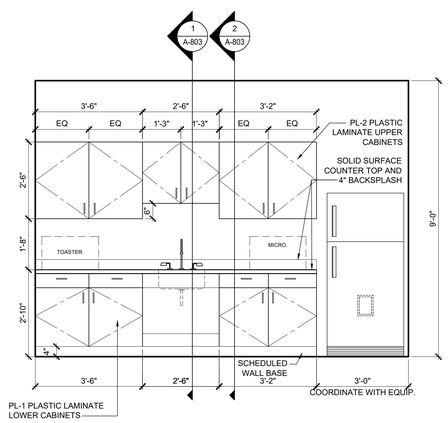
9 Millwork Section

SCALE: 3/4" = 1'-0"



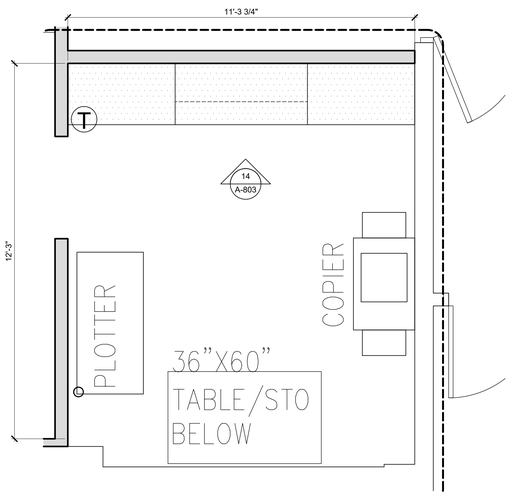
11 303B Shared Cafe Enlarged Millwork Plan

SCALE: 1/2" = 1'-0"



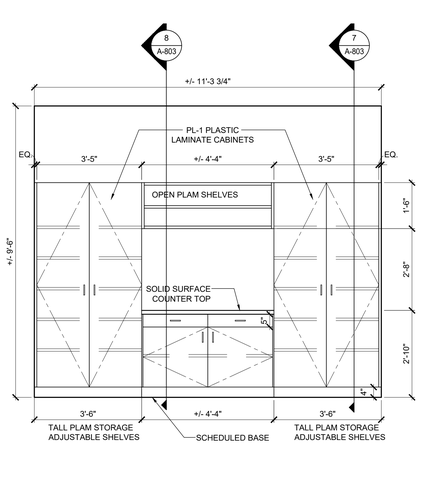
12 303B Shared Cafe Millwork Elevation

SCALE: 1/2" = 1'-0"



13 305E Print/Mail/Fax Enlarged Millwork Plan

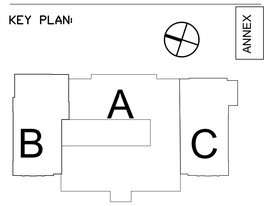
SCALE: 1/2" = 1'-0"



14 305E Print/Mail/Fax Millwork Elevation

SCALE: 1/2" = 1'-0"

KEY PLAN:



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Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date: 06/16/2025
Drawn By: TC
Checked By: KG

Sheet Name:
ENLARGED SHARED CAFE & MAIL ROOM PLANS & ELEVATIONS

Sheet No:
A-803
Sheet 0 of 000

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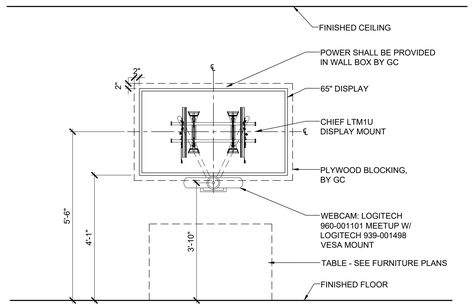
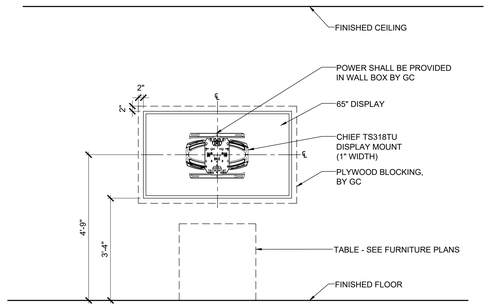


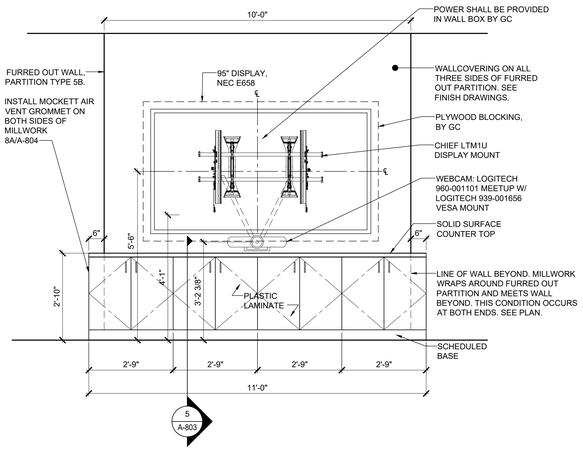
1 Millwork Elevation Rm 300 and 305B

SCALE: 1/2" = 1'-0"



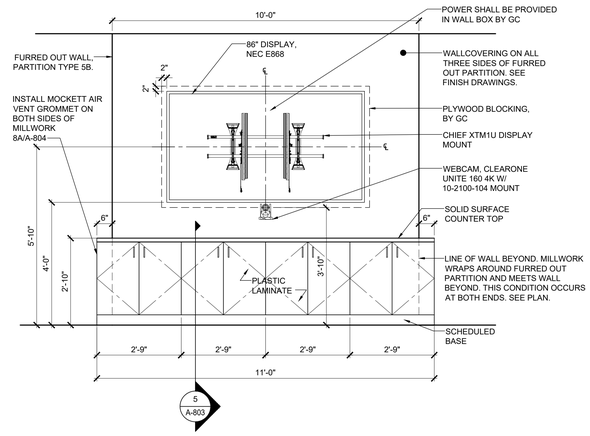
2 Millwork Elevation Rm 216, 301C, 306E

SCALE: 1/2" = 1'-0"



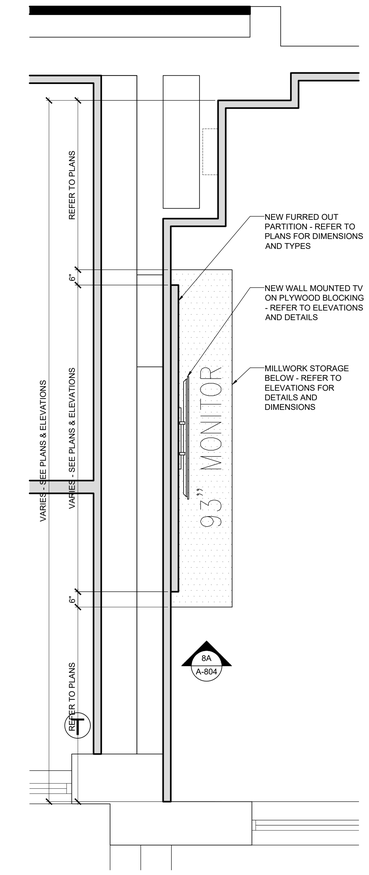
3 Millwork Elevation Rm 103

SCALE: 1/2" = 1'-0"



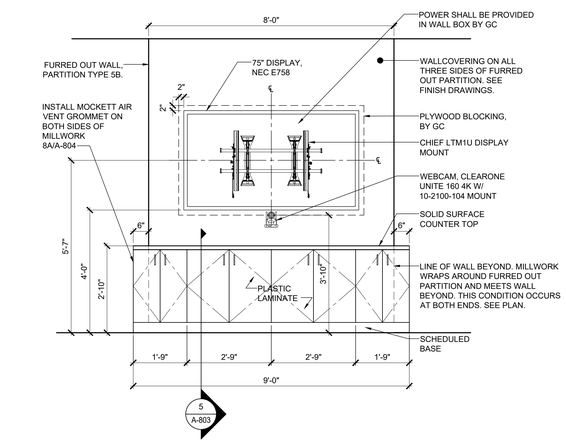
4 Millwork Elevation Rm 111 & 113

SCALE: 1/2" = 1'-0"



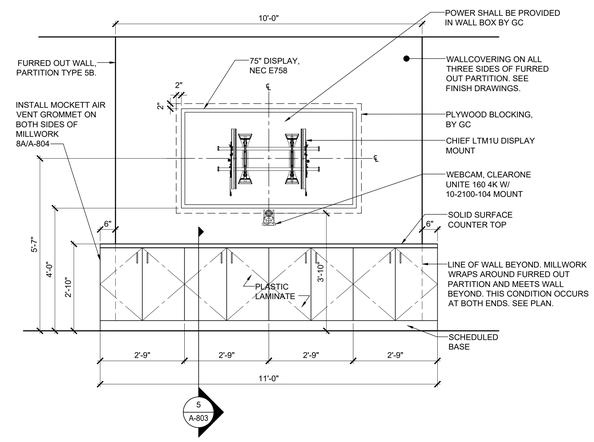
8 Typical Conference Room Millwork Plan

SCALE: 1/2" = 1'-0"



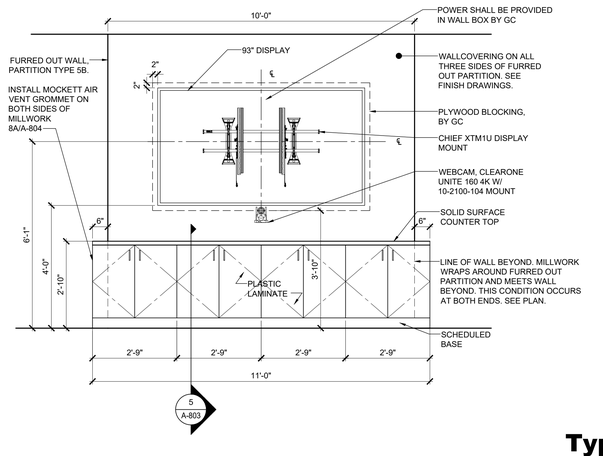
5 Millwork Elevation Rm 209

SCALE: 1/2" = 1'-0"



6 Millwork Elevation Rm 217

SCALE: 1/2" = 1'-0"



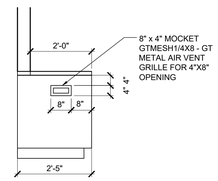
7 Millwork Elevation Rm 304

SCALE: 1/2" = 1'-0"

24" DEEP PLASTIC LAMINATE BASE CABINET WITH 2" BUILT-UP SOLID SURFACE COUNTER TOP EDGE. HIGH PRESSURE PLASTIC LAMINATE FINISH ON BASE CABINETRY.

TYPICAL MILLWORK DETAIL AT MEDIA WALL WITHIN FOLLOWING ROOMS: REFER TO PLANS FOR MILLWORK LENGTH

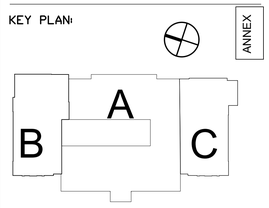
TRAINING ROOM 103
CONFERENCE 105
CONFERENCE 111
CONFERENCE 113
CONFERENCE 209
CONFERENCE 217
CONFERENCE ROOM 304



8A Typical Conference Room Millwork Elevation

SCALE: 1/2" = 1'-0"

KEY PLAN:



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202 Delsea Dr
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date: 06/16/2025
Drawn By: TC
Checked By: KG

Sheet Name:
MILLWORK ELEVATIONS

Sheet No:
A-804
Sheet 0 of 000

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XX–X — GENERAL WALL FINISH
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XX–X — GENERAL FLOOR FINISH

XX–X — ACCENT WALL FINISH

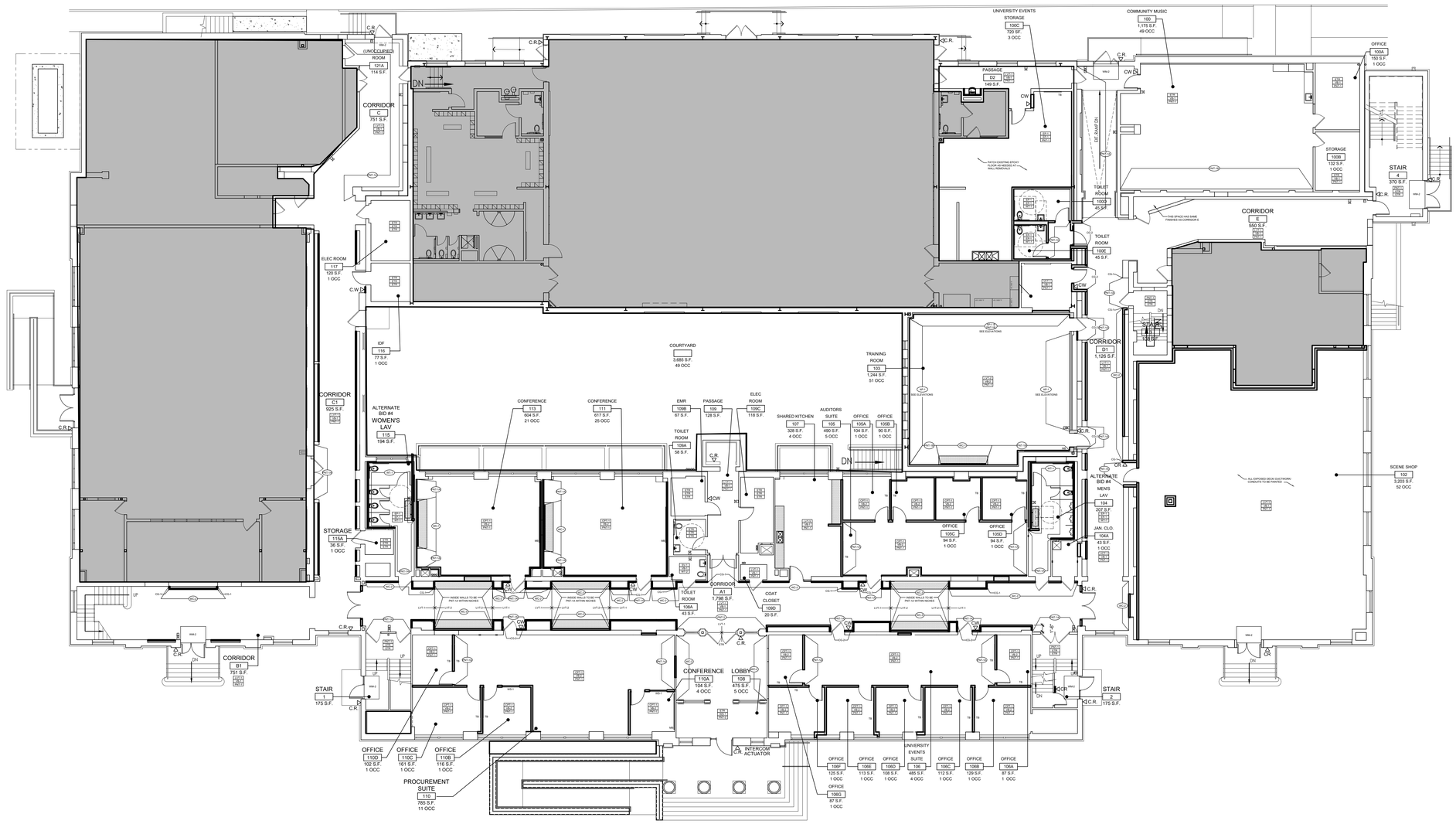
XX–X — XX–X — ACCENT FLOOR FINISH TRANSITION LOCATION

CG — CORNER GUARD

REFER TO SHEET A-906 FOR FINISH SPECIFICATIONS. FINISH PLANS ONLY INDICATE WHERE ACCENT FLOOR AND WALL MATERIALS ARE LOCATED. REFER TO ROOM FINISH SCHEDULE FOR OVERALL FINISHES IN EACH ROOM.

Finish Legend

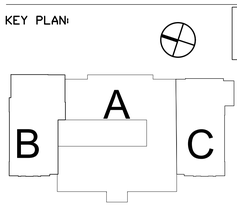
MATERIAL TYPE	ABBREVIATION
FLOORING:	
LUXURY VINYL TILE	LVT
CARPET	CPT
BASE:	
VINYL BASE	VB
WALL:	
PAINT	PNT
WALLCOVERING	WC
GRAPHIC WALLCOVERING	GWC
WALL TILE	WT
CEILING:	
ACOUSTICAL CEILING TILE	ACT
ACOUSTICAL CEILING CLOUD	ACC
ACOUSTICAL CEILING PANEL	ACP
MISCELLANEOUS:	
WINDOW SHADE	WS
PLASTIC LAMINATE	PL
SOLID SURFACE	SS
CORNER GUARD	CG
FABRIC	FB
MARKER BOARD	MB
TACK BOARD	TB



1 FIRST FLOOR FINISH PLAN

SCALE: 3/32" = 1'-0"

KEY PLAN:



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202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date: 06/15/2022
Drawn By: SPJ
Checked By:

Sheet Name:
FIRST FLOOR FINISH PLAN

Sheet No:
A-901
Sheet 0 of 000

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XX-X — BASE FINISH
XX-X — GENERAL FLOOR FINISH

XX-X — ACCENT WALL FINISH

XX-X >< XX-X — ACCENT FLOOR FINISH TRANSITION LOCATION

CG — CORNER GUARD

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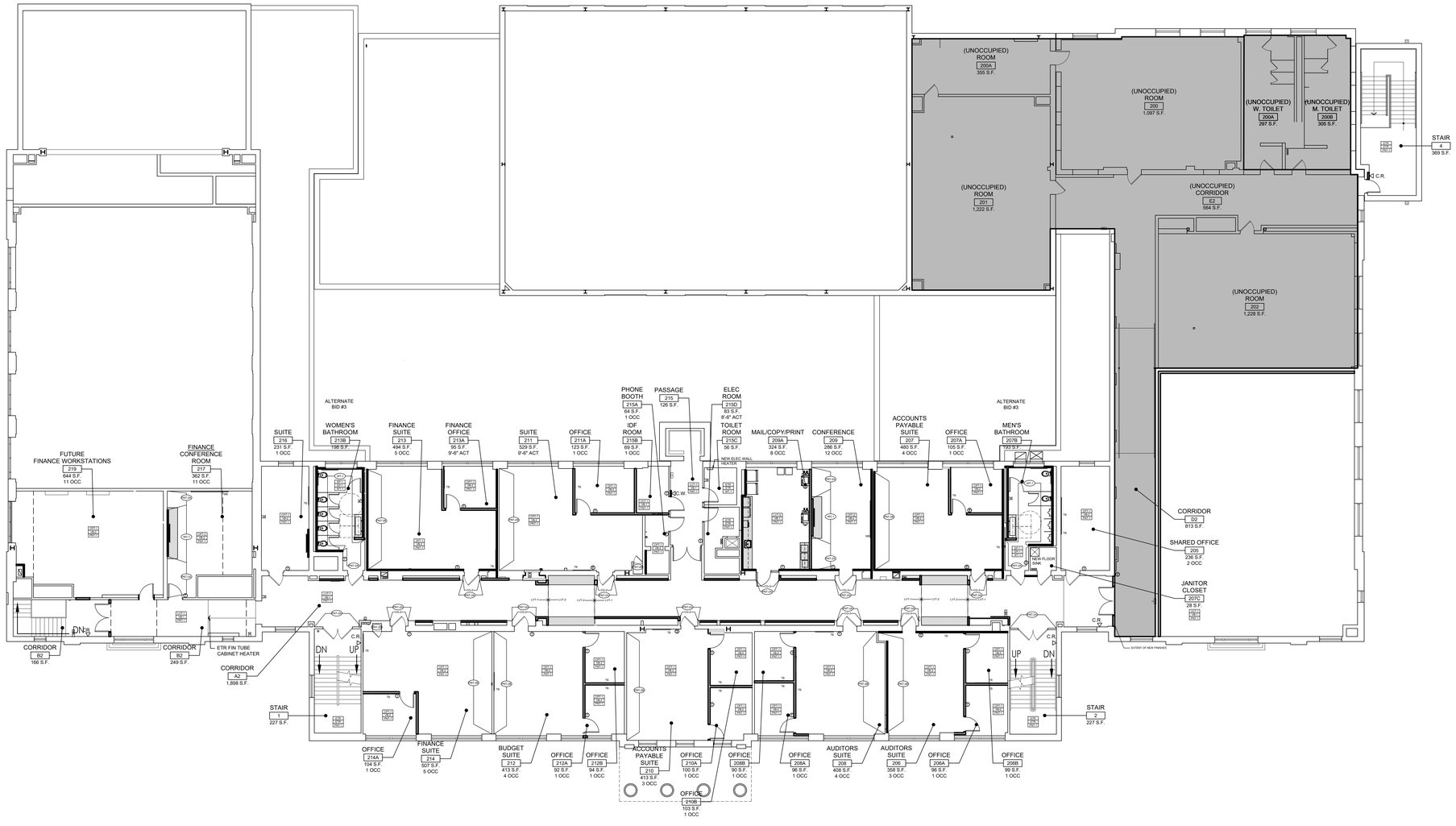
Finish Legend

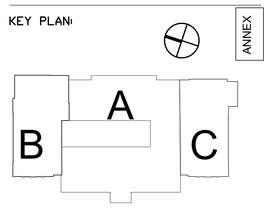
MATERIAL TYPE	ABBREVIATION
FLOORING:	
LUXURY VINYL TILE	LVT
CARPET	CPT
BASE:	
VINYL BASE	VB
WALL:	
PAINT	PNT
WALLCOVERING	WC
GRAPHIC WALLCOVERING	GWC
WALL TILE	WT
CEILING:	
ACOUSTICAL CEILING TILE	ACT
ACOUSTICAL CEILING CLOUD	ACC
ACOUSTICAL CEILING PANEL	ACP
MISCELLANEOUS:	
WINDOW SHADE	WS
PLASTIC LAMINATE	PL
SOLID SURFACE	SS
CORNER GUARD	CG
FABRIC	FB
MARKER BOARD	MB
TACK BOARD	TB



1 SECOND FLOOR FINISH PLAN

SCALE: 3/32" = 1'-0"

KEY PLAN:



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Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date: 06/15/2022
Drawn By: SPJ
Checked By:

Sheet Name:
SECOND FLOOR FINISH PLAN

Sheet No:
A-902
Sheet 0 of 000

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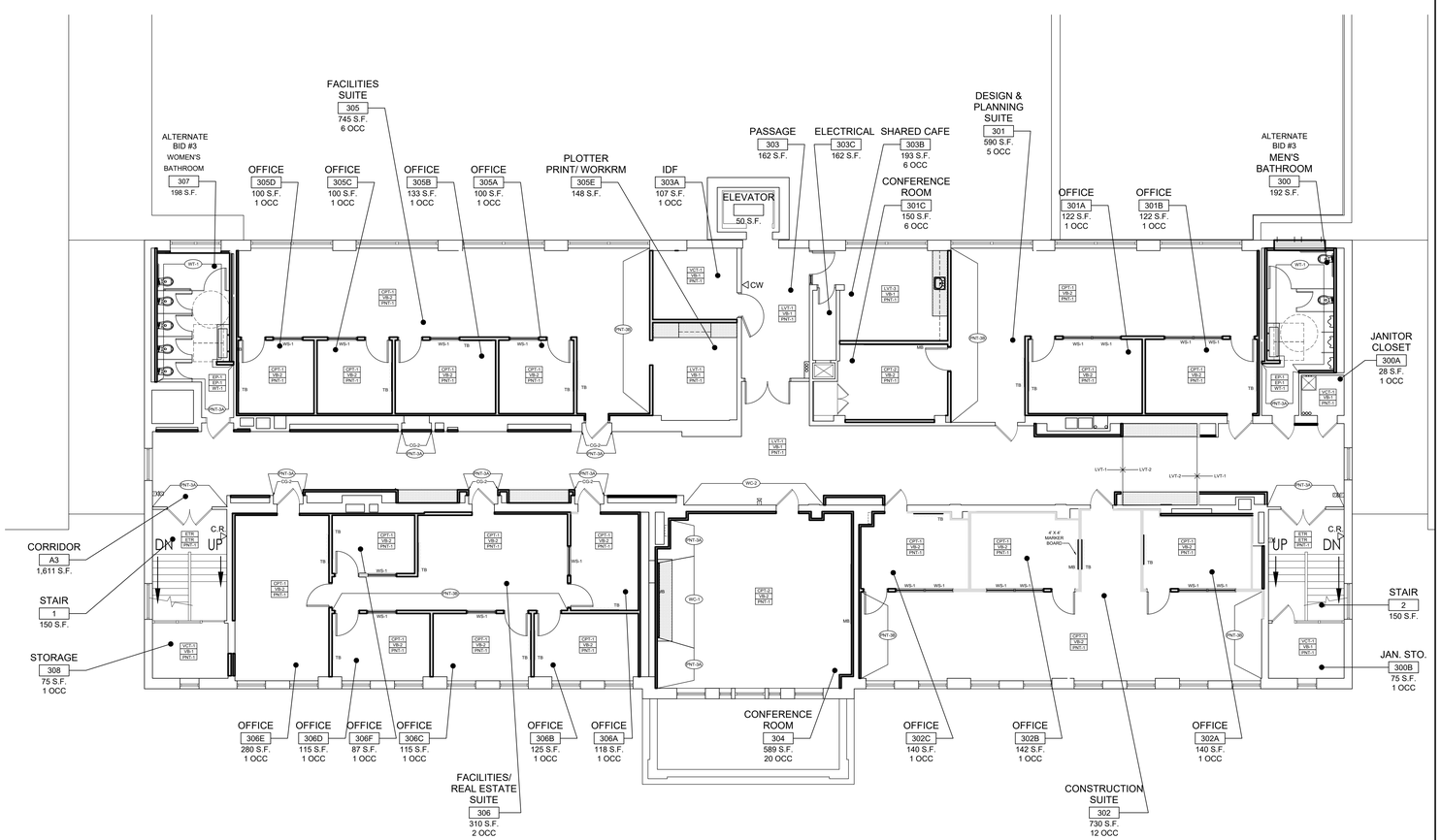
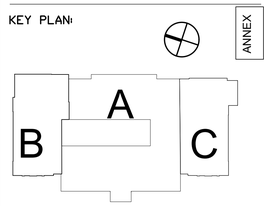
WALL:	
PAINT	PNT
WALLCOVERING	WC
GRAPHIC WALLCOVERING	GWC
WALL TILE	WT
CEILING:	
ACOUSTICAL CEILING TILE	ACT
ACOUSTICAL CEILING CLOUD	ACC
ACOUSTICAL CEILING PANEL	ACP
MISCELLANEOUS:	
WINDOW SHADE	WS
PLASTIC LAMINATE	PL
SOLID SURFACE	SS
CORNER GUARD	CG
FABRIC	FB
MARKER BOARD	MB
TACK BOARD	TB



1 THIRD FLOOR FINISH PLAN

SCALE: 1/8" = 1'-0"

KEY PLAN:



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Revisions / Issues

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Richard D. Alderiso , AIA
NJ RA AI 15023, NY RA 027416, PA RA 405474

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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date: 06/15/2022
Drawn By: SPJ
Checked By:

Sheet Name:
THIRD FLOOR FINISH PLAN

Sheet No:
A-903
Sheet 0 of 000

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P:\2025\25-024 RAHAN GIS ROUND 5\DRAWINGS\CONDOCS\ADDS INTERIOR DESIGN DRAWINGS\

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Finish Schedule Notes

1. LOBBY EXISTING TERRAZZO TILE FLOORING TO REMAIN - TO BE CLEANED AND POLISHED. EXISTING LOBBY WALLS AND MOLDING TO RECEIVE (PNT-2) PAINT FINISH. EXISTING CROWN MOLDING AND CEILING TO RECEIVE (PNT-3) PAINT FINISH.

2. STAIR WALLS AND CEILINGS TO BE CLEANED AND PREPPED TO RECEIVE NEW PAINT FINISH AT ALL STAIRS, U.O.N.

3. PORCELAIN WALL TILE TO BE INSTALLED FULL HEIGHT ON ALL NEW WALLS WITHIN TOILET ROOM. SEE FINISH PLANS.

4. CORNER GUARDS TO BE INSTALLED FULL HEIGHT AND ALONG ALIGNED SOFFIT WITHIN CORRIDOR DOORWAYS. CORNER GUARDS TO BE INSTALLED WHERE WALL COVERING AND PAINT OR WHERE TWO DIFFERENT PAINT FINISHES MEET AT AN OUTSIDE CORNER. SEE SPECIFICATIONS.

5. EACH CONFERENCE AND TRAINING ROOM TO RECEIVE (1) 8'W X 4'H WALL MOUNTED MARKER BOARD WITH LEDGE.

6. EACH OFFICE SUITE AND EACH OFFICE TO RECEIVE (1) 4'W X 4'H WALL MOUNTED TACK/CORK BOARD, U.O.N.

7. WITHIN ALL RESTROOMS: LOWER HALF OF EXISTING OPERABLE WINDOWS TO HAVE (FM-1) PRIVACY FILM

General Finish Notes

1. ALL APPLIED MATERIALS SHALL MEET FIRE/FLAME CLASSIFICATION PER IBC 803.1.1 AS DETERMINED BY OCCUPANCY USE GROUP.

2. DECORATIVE MATERIALS AND TRIM SHALL BE RESTRICTED BY PERFORMANCE CRITERIA OF NYSBC CHAPTER 8.

3. ALL CARPET MATERIAL SHALL MEET DOC FF-1 "PILL TEST"

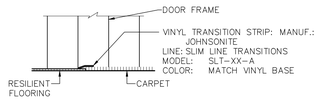
4. ALL FLOOR TILE MATERIAL SHALL BE PROVIDED WITH A MIN. DYNAMIC COEFFICIENT OF FRICTION (DCOF) VALUE OF 0.42.

5. ALL HOLLOW METAL DOOR FRAMES IN SCOPE OF WORK TO BE PAINTED ADJACENT WALL COLOR SEMI GLOSS (PNT-1).

6. INSTALL NEW VINYL TRANSITION STIPE- TARKETT SLIM LINE TYPE AT ALL NEW FLOOR TO EXISTING FLOORING LOCATIONS.

7. REFER TO A-907 FOR SIGNAGE TYPE DETAILS

Floor Transition Details



1 Resilient / Carpet
SCALE: 3" = 1'-0"

2 Resilient / Epoxy
SCALE: 3" = 1'-0"

Material Finish Specifications

Flooring:

Carpets:

(CPT-1) Office Suites (Throughout)
MANUF: BENTLEY MILLS
PATTERN: ARCADE LEGEND 8ALT4
SIZE: 18" X 36" TILE
COLOR: NITRO RACER 800602
BACKING: AFFIRMA II HARDBACK
INSTALLATION: BRICK

(CPT-2) Conference Rooms
MANUF: BENTLEY MILLS
PATTERN: REPOSE
SIZE: 18" X 36"
COLOR: DAILY RITE 800227
BACKING: AFFIRMA II HARDBACK
INSTALLATION: ASHLAR

(WM-1) Walk-Off Mat at Lobby
MANUF: MATTER SURFACES
PATTERN: DIAMOND BLOCK
SIZE: 4' X 6'
COLOR: GRAY

(WM-2) Walk-Off Carpet Tile at Entrances
MANUF: BENTLEY MILLS
PATTERN: ROUGH IDEA SHEAR
SIZE: 24" X 24"
COLOR: DESIGN 800116
INSTALLATION: QUARTER TURN
NOTE: 4' X 6' AREA OF INSTALLATION AT ALL LOCATIONS IDENTIFIED IN PLAN. CENTER INSTALLATION WITH DOOR AND ABUT DOOR THRESHOLD. SEE FLOOR TRANSITION DETAIL 1/A-906

Luxury Vinyl Tile:
(LVT-1) Corridors (Throughout)
MANUF: BENTLEY MILLS
PATTERN: BATISTE
SIZE: 18" X 36" TILE
THICKNESS: 5MM/22MIL WEAR LAYER
COLOR: LINEN 801846
INSTALLATION: STAGGERED

(LVT-2) Within Corridor Bench Insets
MANUF: BENTLEY MILLS
PATTERN: MOMENT
SIZE: 9" X 48"
THICKNESS: 5MM/20MIL WEAR LAYER
COLOR: FORM 801987
INSTALLATION: STAGGERED

(LVT-3) Pantry Rooms/Staff Break Areas
MANUF: PATCRAFT
COLLECTION: LINOCUT 1560 V
SIZE: 9" X 36"
THICKNESS: 5MM
COLOR: BLOCK V1 00750
INSTALLATION: PLANK - ⅓ OFFSET

Epoxy Flooring:
(EP-1) All Toilet Room Floors
MANUF: STONHARD
PRODUCT: STONESHIELD HRI
COLOR: DRIFTWOOD MEDIUM
THICKNESS: 3/16"
PREP: LAYER SELF LEVELING CONCRETE COMPOUND AT ALL LOCATIONS

Vinyl Composition Tile:
(VCT-1)
MANUF: ARMSTRONG FLOORING
STYLE: STANDARD EXCELON
COLOR: STERLING 51904
SIZE: 12" X12"

Resilient Sheet Vinyl Flooring:
(SV-1)
MANUF: PATCRAFT
STYLE: SMART STRIDE 1774V
COLOR: PEWTER 00234
SIZE: CONTINUOUS ROLL GOODS (78.74 IN, 1.99 M)

Base:

Vinyl Base:
(VB-1)
MANUF: JOHNSONITE/TARKETT
SERIES: TIGHTLOCK
HEIGHT: 6"H VINYL BASE (AT ALL CORRIDORS)
4"H VINYL BASE (WITHIN ROOMS SCHEDULED, U.O.N.)
LENGTH: CONTINUOUS ROLL GOODS
COLOR: 32 PEBBLE WG
REMARKS: COVED AT RESILIENT, STRAIGHT AT CARPET
NOTE: PROVIDE PRE-FORMED OUTSIDE CORNERS AT RETURNS LESS THAN 2"

(WD-1)
MANUF: TBD
HEIGHT: MATCH EXISTING
COLOR: PNT-2
REMARKS: INSTALL AT LOBBY DOOR INFILL

Epoxy Integral Base:
(EP-1) All Toilet Rooms
MANUF: STONHARD
PRODUCT: STONESHIELD HRI
COLOR: DRIFTWOOD MEDIUM
THICKNESS: 3/16"
NOTE: 6" HIGH COVE PROFILE, WALL BASE TO BE INTEGRAL WITH FLOORING

Walls:

Paints:

MANUFACTURER: SHERWIN WILLIAMS (TYP.)
FINISHES:
- WALLS (EGGSHELL)
- HM DOOR FRAMES (SEMI-GLOSS)
- CONCRETE DECK AND ALL EXPOSED STEEL/FIREPROOFING, CONDUIT, TRAYS, MECHANICAL DUCTWORK, PIPING ETC. AT CEILING (FLAT)
- GYP. CEILING- (FLAT)

(PNT-1) General Wall Paint (Throughout)
COLOR: SW 6385 DOVER WHITE

(PNT-1A) First Floor Accent
COLOR: SW 6221 MOODY BLUE

(PNT-1B) First Floor Accent
COLOR: SW 6222 RIVERWAY

(PNT-2) Lobby Walls and Existing Molding
COLOR: SW 9165 GOSSAMER VEIL

(PNT-2A) Second Floor Accent
COLOR: SW 6361 AUTUMNAL

(PNT-2B) Second Floor Accent
COLOR: SW 6362 TIGEREYE

(PNT-3) Lobby Ceiling and Crown Moldings
COLOR: SW 9134 DELFT

(PNT-3A) Third Floor Accent
COLOR: SW 6423 RYEGRASS

(PNT-3B) Third Floor Accent
COLOR: SW 7734 OLIVE GROVE

(PNT-4) Gyp Board and Plaster Ceilings (Where Specified)
COLOR: SW 7005 PURE WHITE

(PNT-5) Door Frames
COLOR: SW 7018 DOVETAIL

Wallcoverings:

(WC-1)
MANUFACTURER: MDC INTERIOR SOLUTIONS
COLLECTION: NVOLVE
PATTERN: ZEPHYR
COLOR: MUSHROOM ENV1009
WEIGHT: 20 OZ. TYPE II VINYL
SIZE: 52" / 54"
FIRE RATING: CLASS A

(WC-2)
MANUFACTURER: KOROSEAL
COLLECTION: HARRIET
COLOR: SPRUCE HA21-11
SIZE: 52-54" W / 20 OZ
FINISH: TYPE II VINYL

(WC-3)
MANUFACTURER: WOLF GORDON
COLLECTION: SYMPHONY
PATTERN: ON POINTE PETITE
COLOR: DUSK DUET
WEIGHT: 20 OZ. TYPE II VINYL
SIZE: 52"
FIRE RATING: CLASS A

Porcelain Wall Tile:
(WT-1)
MANUFACTURER: CROSSVILLE
SERIES: CIVILIZATION
COLOR: COMMUNIQUE
SIZE: 12" X 24"
GROUT: MAPEI OR LATICRETE, COLOR T.B.D.
LOCATION: FULL HEIGHT ON ALL TOILET ROOM WALLS
INSTALLATION: HORIZONTAL STACK BOND

Acoustic Wall Panels:
(AP-1) Acoustic Tackable Wall Panels in Training Room 103

MANUFACTURER: MOMENTUM TEXTILES
PRODUCT/COLLECTION: MURATTO ACOUSTIC PANEL
STYLE: CROSS 09645051 AND INFINITY CORDED 09646789
COLOR: TAUPE AND YELLOW (SEE ELEVATIONS FOR QUANTITIES)
CONTENT: 93% CORK, 7% POLYURETHANE / PVC FREE
NRC RATING: 0.30
SIZE: 27.3" X 15.5", 0.3" THICK
NOTE: SEE ELEVATIONS ON A-301B FOR INSTALLATION PATTERN OF PANELS.
A = CROSS (TAUPE)
B = INFINITY CORDED (TAUPE)
C = CROSS (YELLOW)

Ceilings:

Acoustical Ceiling Tile:

(ACT-1)
MANUF: ARMSTRONG WORLD INDUSTRIES
STYLE: OPTIMA, 15/16" SQUARE LAY-IN
ITEM NO.: 3353
NRC: 0.90
SIZE: 24" X 48" X 1"
GRID TYPE: PRELUDE XL
SIZE: 15/16" EXPOSED TEE
GRID COLOR: BLIZZARD WHITE

(ACT-2)
MANUF: ARMSTRONG WORLD INDUSTRIES
STYLE: OPTIMA, 15/16" SQUARE LAY-IN
ITEM NO.: 3155
NRC: 1.00
SIZE: 24" X 48" X 1-1/2"
GRID TYPE: PRELUDE XL
SIZE: 15/16" EXPOSED TEE
GRID COLOR: BLIZZARD WHITE

(ACT-3) TOILET ROOMS
MANUF: ARMSTRONG WORLD INDUSTRIES
STYLE: OPTIMA HEALTH ZONE
ITEM NO.: 3315
SIZE: 24" X 48" X 1-1/2"
EDGE TYPE: 15/16" SQUARE LAY-IN
COLOR: (WH) WHITE
GRID TYPE: PRELUDE - 15/16" - (WH) WHITE
INSTALLATION: SEE REFLECTED CEILING PLANS

Miscellaneous:

Plastic Laminate:
(PL-1) Built-in Millwork Where Specified
MANUF: WILSONART
COLOR: LOFT OAK 7968K-12
FINISH: SOFT GRAIN

(PL-2) Pantry Room Upper Cabinets - See Elevations
MANUF: WILSONART
COLOR: TITANIUM ALLOY 5058K-18
FINISH: LINEARITY

Solid Surface:
(SS-1) Counter tops at all built-in millwork throughout, U.O.N.
MANUF: WILSONART
COLOR: CHILLED EARTH 9228SS
THICKNESS: 1/2"

(SS-2) Counter tops at Toilet Room Sinks
MANUF: WILSONART
COLOR: POWDER WHITE 9230SS
THICKNESS: 1/2"

Fabric Bench Upholsteries:
(FB-1)
MANUF: DESIGNTEX
PATTERN: ALPHABET
COLOR: MEDITERRANEAN 3877-401
CONTENT: VINYL
NOTE: REFER TO MILLWORK ELEVATIONS FOR LOCATION.

(FB-2)
MANUF: DESIGNTEX
PATTERN: ALPHABET
COLOR: APRICOT 3877-701
CONTENT: VINYL
NOTE: REFER TO MILLWORK ELEVATIONS FOR LOCATION.

(FB-3)
MANUF: DESIGNTEX
PATTERN: ALPHABET
COLOR: PISTACHIO 3877-501
CONTENT: VINYL
NOTE: REFER TO MILLWORK ELEVATIONS FOR LOCATION.

(FB-4)
MANUF.: CF STINSON
COLOR: POL10 MOJAVE
PATTERN: POLYGON
CONTENT: VINYL (29 OZ./LIN. YD., 54")
NOTE: REFER TO MILLWORK ELEVATIONS FOR LOCATION.

Marker board:
(MB)
MANUF: CLARIDGE
TYPE: SEE SPECIFICATIONS
COLOR: BLACK
SIZE: VARIES- SEE ELEVATIONS

Window Treatments:
(WS-1) **At all exterior window locations,** *except Corridors, Conference Rooms, Training Rooms, and the Scene Shop.*
At all interior window locations, as noted on finish plans.
MANUF: MECHO SYSTEMS
SERIES: M5 MANUAL SHADE SYSTEM
SHADE CLOTH: THERMOVEIL 1500 SERIES
OPENNESS: 3%
COLOR: TBD

(WS-2) **At all exterior window locations within all Conference Rooms and Training Rooms**
MANUF: MECHO SYSTEMS
SERIES: DOUBLESHADE (HYBRID ELECTRO/1 AND MECHO/5)
SHADE CLOTH: THERMOVEIL 1500 SERIES
OPENNESS: 3%
COLOR: TBD
SHADE CLOTH: (BLACKOUT) CHELSEA 0250 SERIES
COLOR: TBD

(WS-3) **At all interior doors with vision lights and all sidelights**
MANUF.: ACTIVAR -AIR LOUVERS
PRODUCT: VELO PRIVACY SCREEN FOR VISION LITES -PS
SIZE:
FRAME COLOR: SILVER
OPENNESS: OPAQUE (0%)
NOTE: MOUNTED ON ROOM SIDE OF DOOR, FITTED TO VISION PANEL FRAME.

Corner Guards:
(CG-1) At Corridors throughout where wallcovering and paint finish meet at an outside corner.
MANUF: KOROGARD
PRODUCT: ALUMINUM TRIM - OUTSIDE CORNER OC12
COLOR: N/A
HEIGHT: FULL HEIGHT, SEE PARTITION TYPES AND RCP FOR CEILING HEIGHTS.
INSTALLATION: CORNER GUARD TO TURN AND BE INSTALLED HORIZONTALLY ALONG ALIGNING SOFFIT/HEADER.

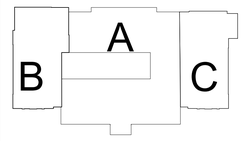
(CG-2) At Corridors throughout where two different paint finishes meet at an outside corner.
MANUF: KOROGARD
PRODUCT: STANDARD VINYL TRIM - M085
COLOR: TBD
HEIGHT: FULL HEIGHT, SEE PARTITION TYPES AND RCP FOR CEILING HEIGHTS.
INSTALLATION: CORNER GUARD TO TURN AND BE INSTALLED HORIZONTALLY ALONG ALIGNING SOFFIT/HEADER.

Marker Boards:
(MB-1) At all Conference and Training Rooms
MANUF: CLARIDGE
PRODUCT: 8'W X 4'H WALL MOUNTED MAGNETIC GLASS MARKER BOARD WITH LEDGE
(4'W WHERE NOTED WITHIN AN OFFICE)

Tack Boards:
(TB-1) (1) Tack Board to be mounted on wall within each Office Suite &
(1) Tack Board to be mounted on wall within each Office.
See A-300 Lobby Interior Elevations for additional tack board installation locations
MANUF: T.B.D.
PRODUCT: 4'W X 4'H WALL MOUNTED CORK BOARD

Fiberglass Reinforced Plastic Panels:
(FRP-1)
MANUF: MARLITE
TYP: STANDARD FRP (4' X 10' SHEET)
COLOR: P 100 WHITE (CLASS A)
FINISH: PEBBLED SURFACE
INSTALLATION: FROM TOP OF WALL BASE TO 5'-0" A.F.F.
TRIM: PVC TRIM 'EDGE' AT TOP OF PANEL AND 'INSIDE CORNER', 'OUTSIDE CORNER' AND 'DIVISION' WHERE NEEDED.

KEY PLAN:



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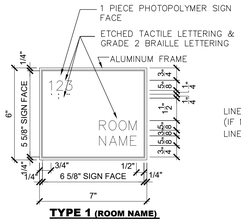
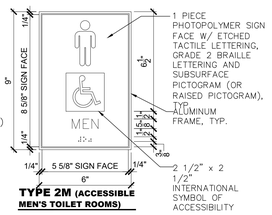
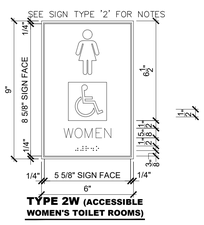


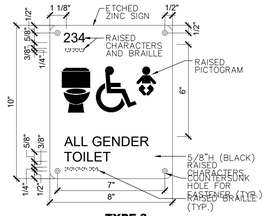
TYPE 1 (ROOM NAME)



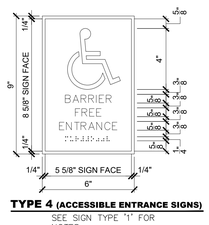
TYPE 2M (ACCESSIBLE MEN'S TOILET ROOMS)



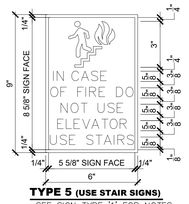
TYPE 2W (ACCESSIBLE WOMEN'S TOILET ROOMS)



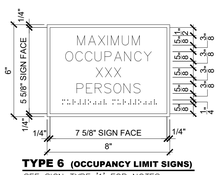
TYPE 3 (ACCESSIBLE UNISEX TOILET ROOMS)



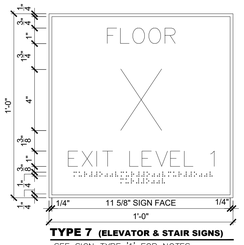
TYPE 4 (ACCESSIBLE ENTRANCE SIGNS)
SEE SIGN TYPE '1' FOR NOTES



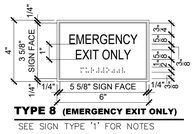
TYPE 5 (USE STAIR SIGNS)
SEE SIGN TYPE '1' FOR NOTES



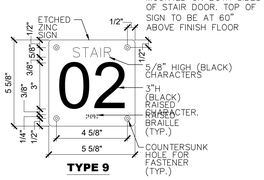
TYPE 6 (OCCUPANCY LIMIT SIGNS)
SEE SIGN TYPE '1' FOR NOTES
LOCATIONS:
COURTYARD & SEE SHEET A-906



TYPE 7 (ELEVATOR & STAIR SIGNS)
SEE SIGN TYPE '1' FOR NOTES



TYPE 8 (EMERGENCY EXIT ONLY)
SEE SIGN TYPE '1' FOR NOTES



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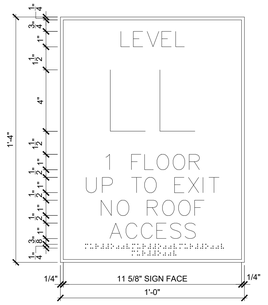
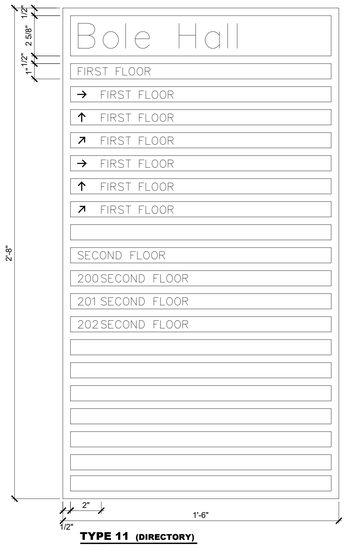


TYPE 10 (ELEVATOR JAMB FLOOR LEVEL SIGNS)



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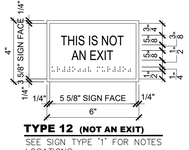
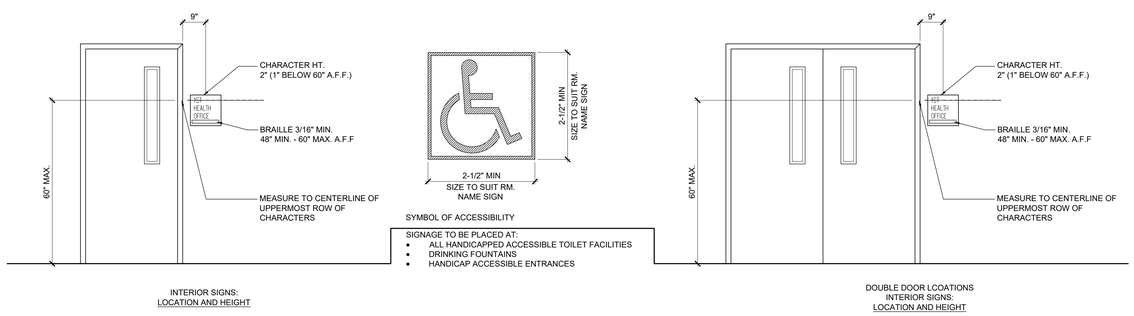


TYPE 12 (NOT AN EXIT)
SEE SIGN TYPE '1' FOR NOTES
LOCATIONS:
COURTYARD DOOR & SEE SHEET A-906

1 SIGNAGE TYPES
SCALE: 3" = 1'-0"

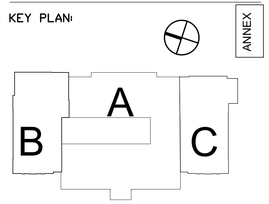


2 TYPICAL SIGNAGE MOUNTING
SCALE: 1/2" = 1'-0"

GENERAL SIGNAGE NOTE:

BASIS OF DESIGN TO BE INTERFACE ARCHITECTURAL SIGNS

KEY PLAN:



No.	Date	Description
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NJ RA AI 15023, NY RA 027416, PA RA 405474

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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date: 06/17/2022
Drawn By: DC
Checked By:

Sheet Name:
SIGNAGE TYPES AND DETAILS

Sheet No:
A-907
Sheet 001 of 000

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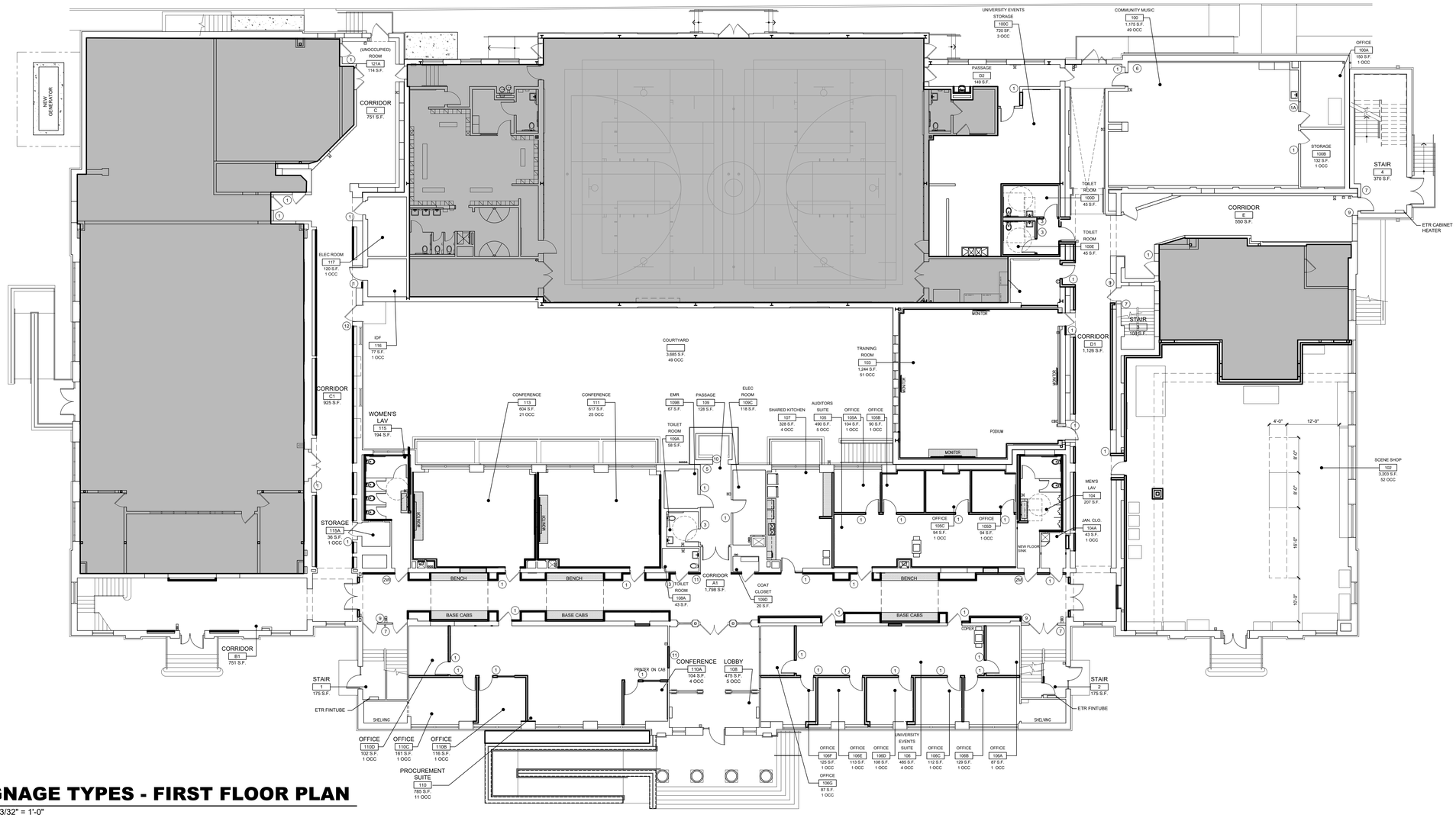
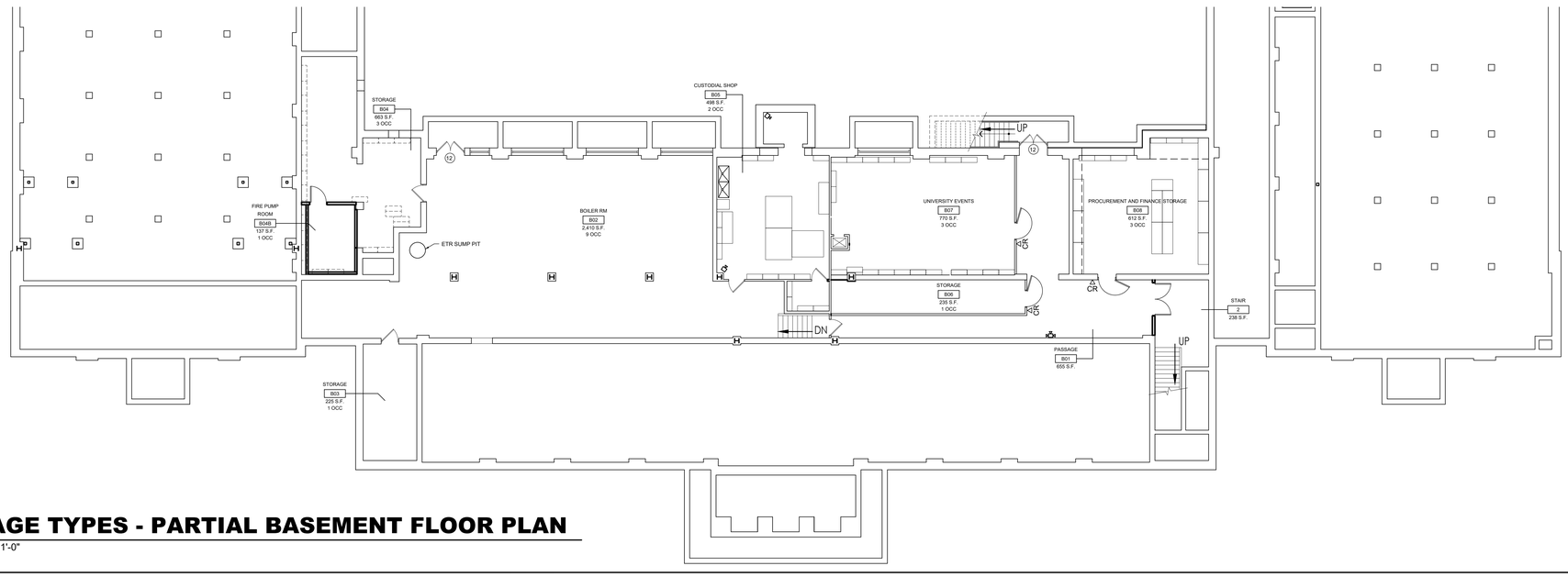


1 SIGNAGE TYPES - FIRST FLOOR PLAN

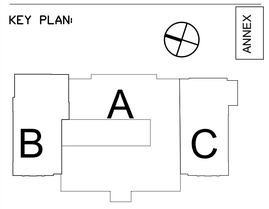
SCALE: 3/32" = 1'-0"



2 SIGNAGE TYPES - PARTIAL BASEMENT FLOOR PLAN

SCALE: 3/32" = 1'-0"

KEY PLAN:



ANNEX

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Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date: 06/17/2022
Drawn By: DC
Checked By:

Sheet Name:
SIGNAGE PLANS

Sheet No:
A-907A
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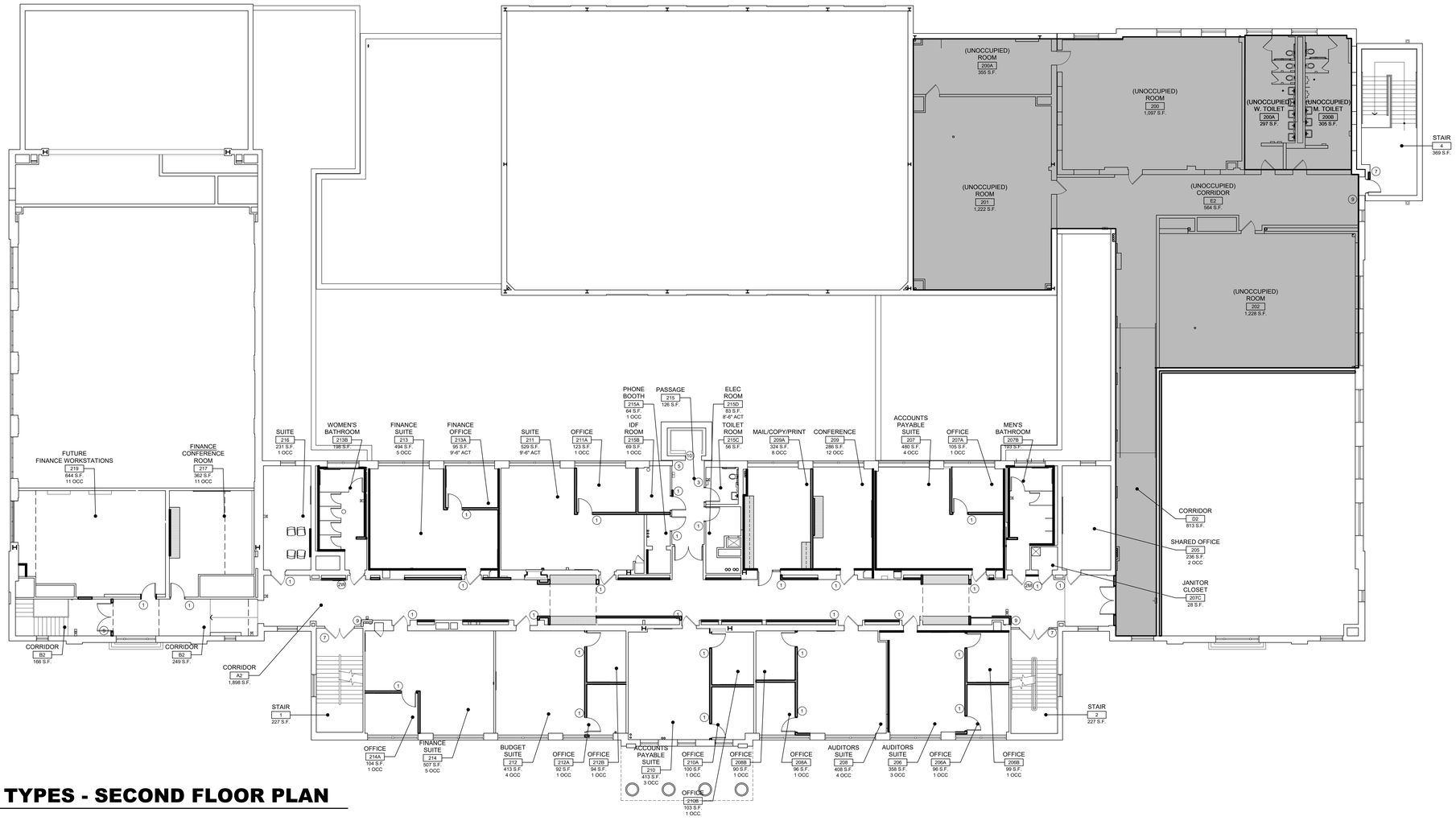
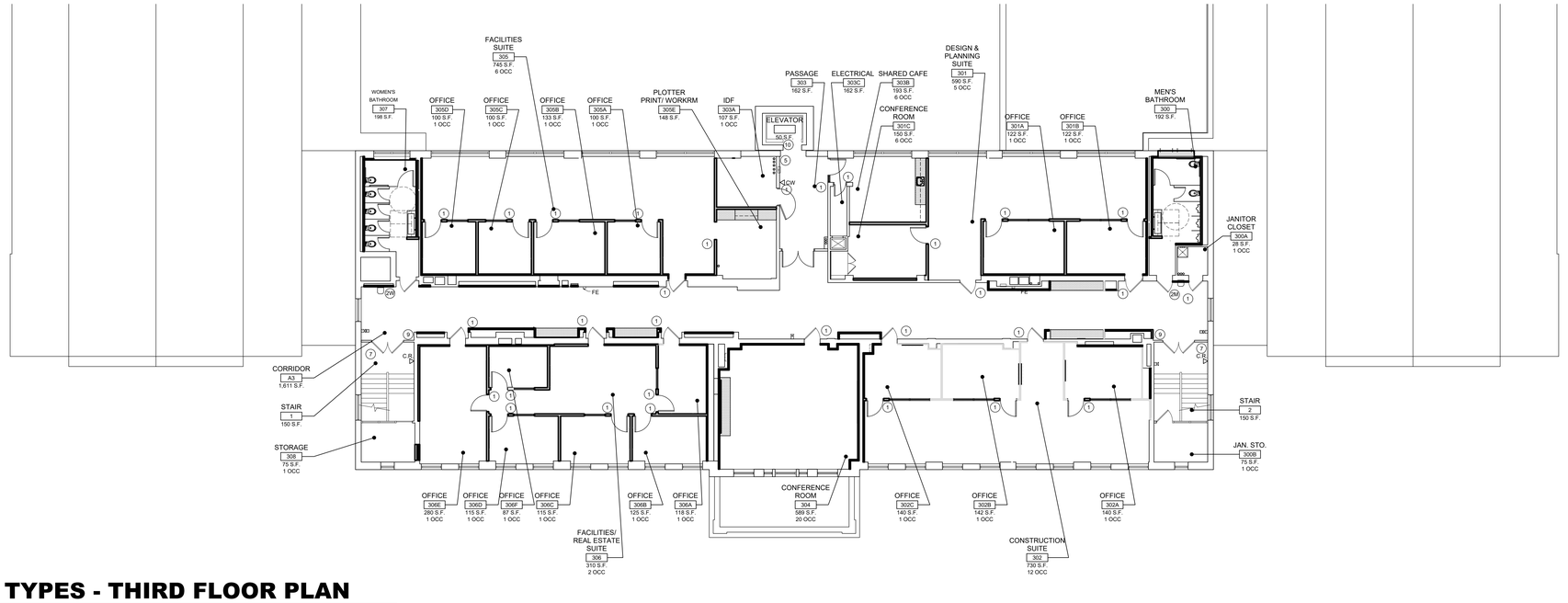


1 SIGNAGE TYPES - SECOND FLOOR PLAN

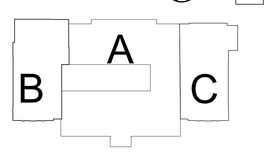
SCALE: 3/32" = 1'-0"



2 SIGNAGE TYPES - THIRD FLOOR PLAN

SCALE: 3/32" = 1'-0"

KEY PLAN:



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Drawing Information:
Project No: 25.024
Date: 06/17/2022
Drawn By: DC
Checked By:

Sheet Name:
SIGNAGE PLANS

Sheet No:
A-907B
Sheet 001 of 000

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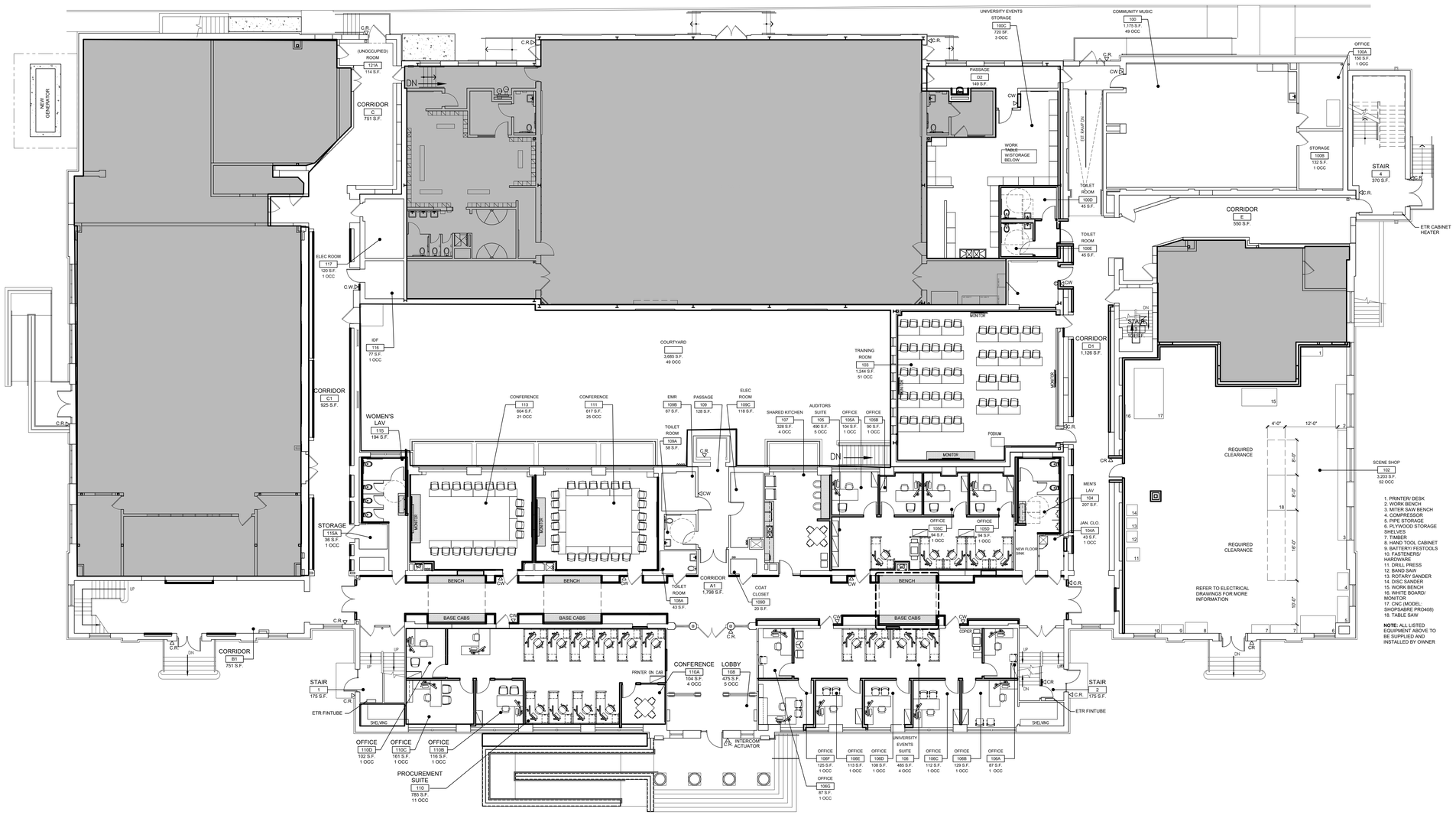
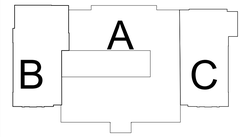


FIRST FLOOR FURNITURE COORDINATION PLAN

1 SCALE: 3/32" = 1'-0"

KEY PLAN:



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202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date: 06/15/2022
Drawn By: SPJ
Checked By:

Sheet Name:
FIRST FLOOR FURNITURE COORDINATION PLAN

Sheet No:
A-910
Sheet 0 of 000

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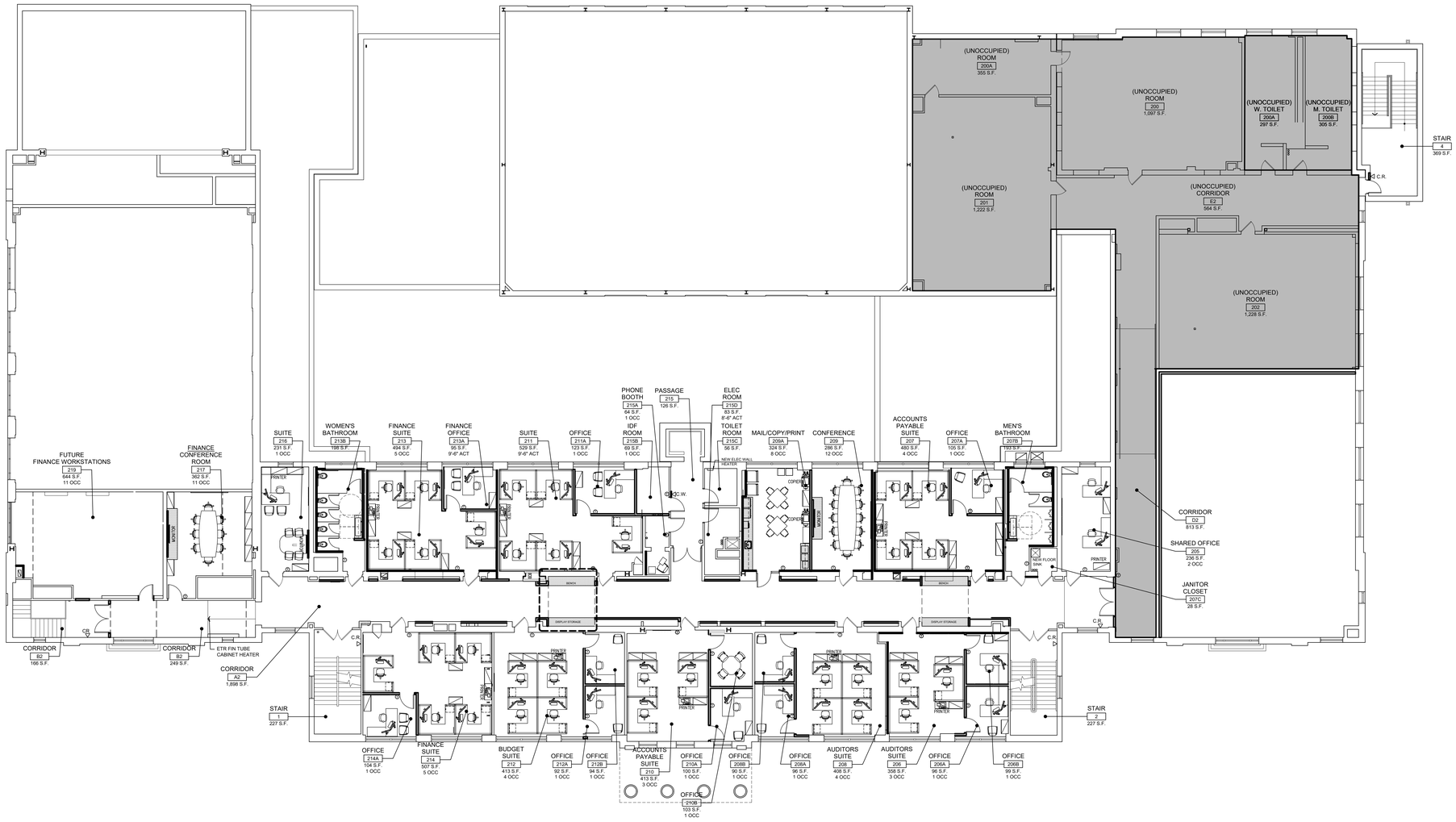
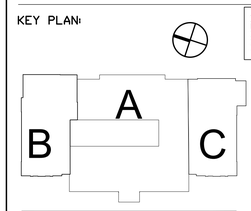


SECOND FLOOR FURNITURE COORDINATION PLAN

1 SCALE: 3/32" = 1'-0"

KEY PLAN:



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Project No: 25.024
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Drawn By: SPJ
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SECOND FLOOR FURNITURE COORDINATION PLAN

Sheet No:

A-920

Sheet 0 of 000

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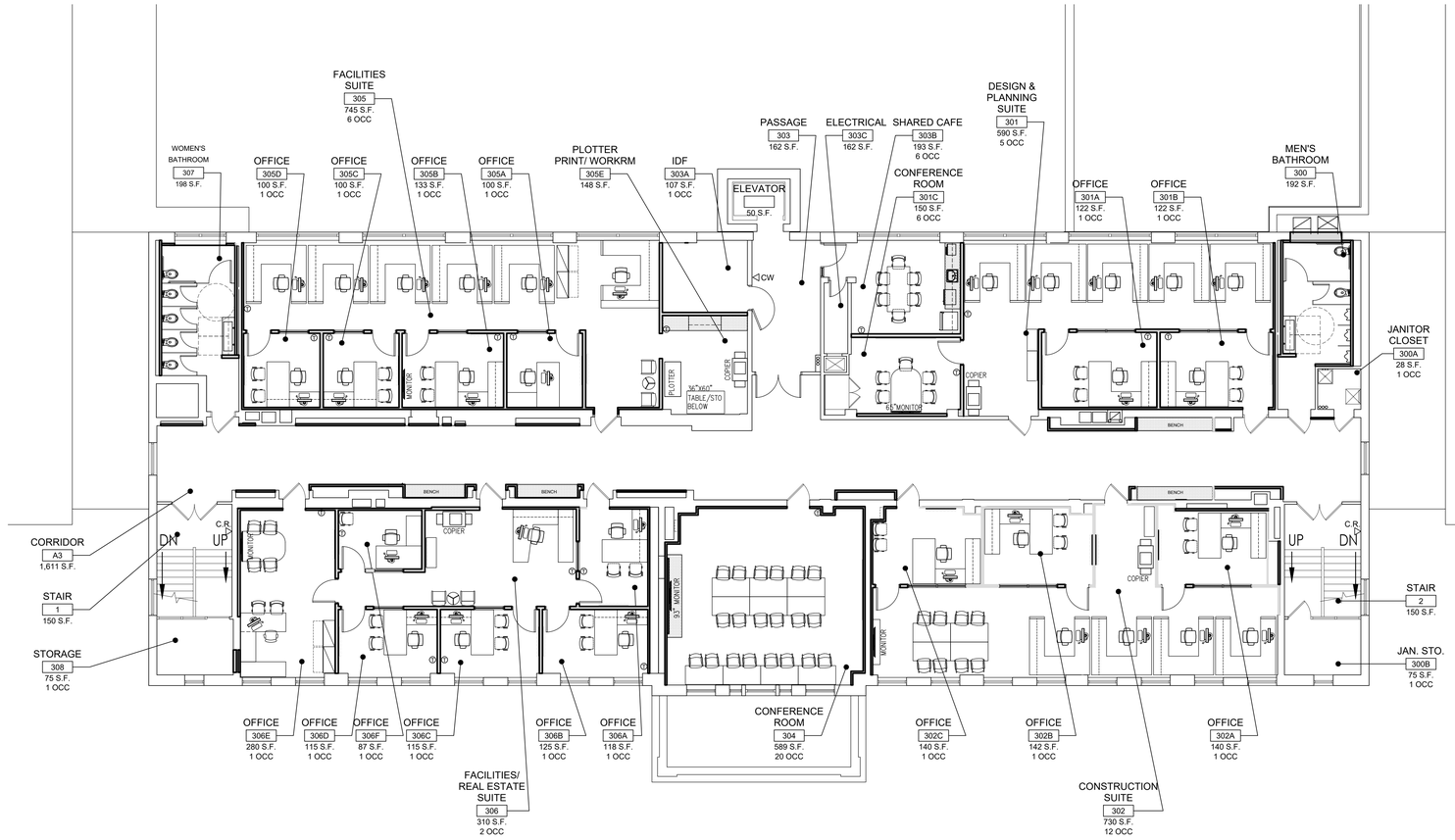
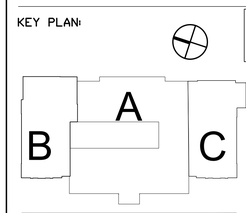


THIRD FLOOR FURNITURE COORDINATION PLAN

1 SCALE: 1/8" = 1'-0"

KEY PLAN:



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Drawing Information:
Project No: 25.024
Date: 06/15/2022
Drawn By: SPJ
Checked By:

Sheet Name:
THIRD FLOOR FURNITURE COORDINATION PLAN

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A-930
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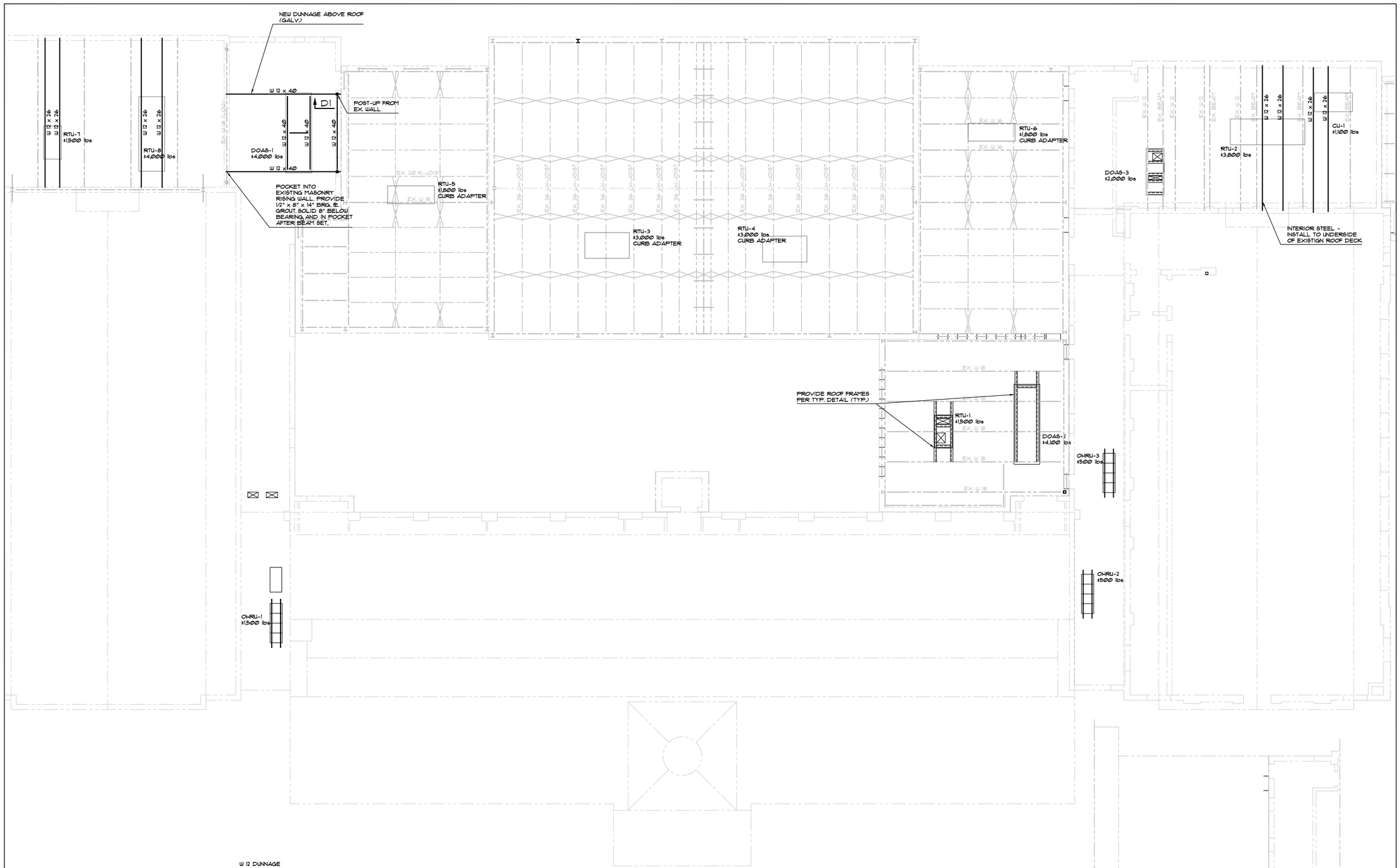
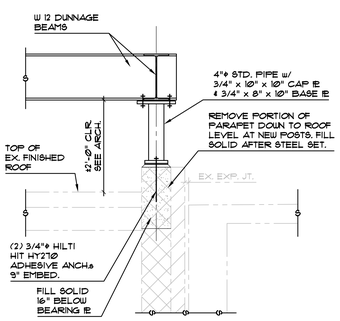
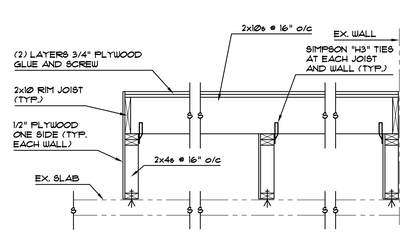




SECTION - D1

3/4"=1'-0"



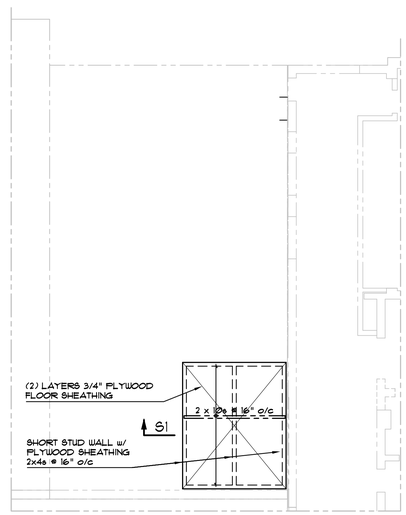
SECTION - S1

3/4"=1'-0"

PARTIAL ROOF FRAMING PLAN

1/8" = 1'-0"

PROVIDE ANGLE FRAME AROUND ALL ROOF DRAINS & AT ALL OTHER ROOF OPENINGS LARGER THAN 8" AS PER TYPICAL DETAIL, ON EXIST. STL. FRAMED ROOF AREAS.
PROVIDE FRAME UNDER ALL ROOFTOP EQUIPMENT CURBS PER TYPICAL DETAIL.
COORDINATE QUANTITY, SIZE, & LOCATION OF ALL ROOF OPNGS. W/ ARCH. & MECH. DWGS. NOT ALL OPENINGS SHOWN ON STRUCTURAL DRAWINGS.
ALL NEW OPENINGS TO UTILIZE LOOSE LINTEL SCHEDULE, COORDINATE QUANTITY, SPANS, & LOCATIONS WITH ARCH'L AND MECH'L DRAWINGS.
"CURB ADAPTER" - INDICATES REPLACEMENT MECH'L UNITS ON ADAPTER CURBS, NO MODIFICATIONS TO STEEL REQUIRED.



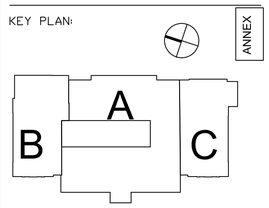
BATHROOM RAISED FLOOR FLOOR FRAMING PLAN

1/8" = 1'-0"

Harrison – Hamnett, P.C.
Consulting Engineers
40 Knowles Street Pennington, New Jersey 08534
Ph: 609-818-1808 www.hhpccse.com

MARK W. GAFFNEY, NJPE #24GE04284100 DATE

KEY PLAN:



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Drawing Information:

Project No: 25.024
Date: XXXX
Drawn By: MWG
Checked By:

Sheet Name:

ROOF PLAN

Sheet No:

S-101

Sheet 0 of 000

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Drawing name: D:\Jobs\25250 - Rowan Glassboro Intermediate School (2025) - DIG\25250 Rowan GIS Framing.dwg
Date: Dec 08, 2025 - 1:08pm

WOOD LOOSE LINTEL SCHEDULE

ROUGH OPENING	LINTEL SIZE	REMARKS
UP TO 3'-0"	2 x 6's	
3'-1" TO 4'-0"	2 x 8's	
4'-1" TO 6'-0"	2 x 10's	
6'-1" TO 8'-0"	2 x 12's	
OVER 8'-0"	MICRO - LAM	

NOTE:
1. PROVIDE (2) MEMBERS IN 2x4 STUD WALLS AND (3) MEMBERS IN 2x6 STUD WALLS.
2. PROVIDE (1) JACK STUD FOR SPANS LESS THAN 4 FT., (2) FOR SPANS GREATER THAN 4 ft.

NOTE:
UNLESS OTHERWISE SPECIFIED ON DRAWINGS PROVIDE & INSTALL LINTELS FOR ALL SQUARE HEAD MASONRY OPENINGS IN NON-BEARING WALLS IN ACCORDANCE WITH THE FOLLOWING SCHEDULES & COMMENTS.

PRECAST LOOSE LINTEL SCHEDULE

PRECAST CONCRETE LINTELS AS PER CASTEX CORP. (OR APPROVED EQUAL)

CLEAR SPAN (MASONRY OPNG.)	LINTEL SIZE / LINTEL TYPE NUMBER — WALL THICKNESS (BLOCK SIZE)			
	6"	8"	10"	12"
2'-0"	1 - 6xB / 330C - 6	1 - 8xB / 330C - 8	1 - 4xB / 330C 1 - 6xB / 330C - 6	1 - 4xB / 330C 1 - 8xB / 330C - 8
3'-4"	1 - 6xB / 346C - 6	1 - 8xB / 346C - 8	1 - 4xB / 346C 1 - 6xB / 346C - 6	1 - 4xB / 346C 1 - 8xB / 346C - 8
4'-0"	1 - 6xB / 350C - 6	1 - 8xB / 450C - 8	1 - 4xB / 450C 1 - 6xB / 350C - 6	1 - 4xB / 450C 1 - 8xB / 450C - 8
5'-0"	1 - 6xB / 466C - 6	1 - 8xB / 466C - 8	1 - 4xB / 466C 1 - 6xB / 466C - 6	1 - 4xB / 466C 1 - 8xB / 466C - 8
6'-0"	1 - 6xB / 476C - 6	1 - 8xB / 576C - 8	1 - 4xB / 576C 1 - 6xB / 476C - 6	1 - 4xB / 576C 1 - 8xB / 576C - 8
7'-0"	1 - 6xB / 486C - 6	1 - 8xB / 586C - 8	1 - 4xB / 586C 1 - 6xB / 486C - 6	1 - 4xB / 586C 1 - 8xB / 586C - 8
8'-0"	1 - 6xB / 496C - 6	1 - 8xB / 596C - 8	1 - 4xB / 596C 1 - 6xB / 496C - 6	1 - 4xB / 596C 1 - 8xB / 596C - 8

NOTES:
1. ALL PRECAST LINTELS TO HAVE 6" MINIMUM BEARING EACH SIDE OF OPENING.
2. WHERE OPENING IS LOCATED NEXT TO COLUMNS OR BEAMS, ATTACH TO STRUCTURAL STEEL CONNECTION NOT TO PROTRUDE INTO OPENING.
3. CONSULT ARCHITECTURAL, MECHANICAL, & ELECTRICAL DRAWINGS FOR OPENINGS SIZE & LOCATION.
4. WHERE DOUBLE LINTELS ARE USED, WIDER LINTEL TO BE ON OUTSIDE.
5. PRECAST LINTELS TO BE USED FOR NON-LOAD BEARING WALLS.

GENERAL NOTES

STEEL MEMBERS

1. Welding shall be done in conformity with the latest code for Arc and Gas Welding in Building Construction of the American Welding Society. All welds shall develop the full strength of the material being welded, unless otherwise noted.
2. All steel shall receive one shop coat of paint except contact surfaces, within 4 inches of field welds.
3. All steel shall be accurately set and properly held in position with suitable temporary braces and stays until permanently secured.
4. All structural wide flange shapes to be ASTM A-992/A572, Grade 50.
5. All steel plates, angles, channels are to be ASTM A-36 unless indicated otherwise.

MISCELLANEOUS

1. Contractor shall verify all dimensions, sections and elevations on the job.
2. Consult the Architectural, Mechanical and Electrical drawings for verification of location and dimensions of chases, inserts, openings, sleeves, wishes, drips, reveals, depressions, equipment pads and other product requirements.
3. Reproductions of contract documents are not acceptable as shop drawings and will be rejected.

NOTES:
UNLESS OTHERWISE SPECIFIED ON DRAWINGS PROVIDE & INSTALL LINTELS FOR ALL SQUARE HEAD MASONRY OPENINGS IN ALL MASONRY WALLS IN ACCORDANCE WITH THE FOLLOWING SCHEDULES & COMMENTS.

LOOSE LINTEL SCHEDULE

(FOR 4", 8", 12", & 16" WALLS)

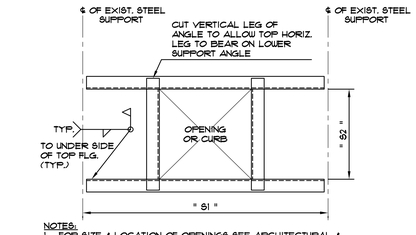
MASONRY OPENING	LINTEL SIZE	REMARKS
UP TO 4'-0"	L - 3 1/2" x 3 1/2" x 1/4"	
4'-1" TO 6'-0"	L - 5" x 3 1/2" x 5/16"	
6'-1" TO 8'-0"	L - 6" x 3 1/2" x 5/16"	
OVER 8'-0"	W 8 x 18 + PL	

LOOSE LINTEL SCHEDULE

(FOR 6" WALLS)

MASONRY OPENING	LINTEL SIZE	REMARKS
2'-0" TO 6'-0"	WT 7 x 11	
6'-1" TO 8'-0"	WT 8 x 13	

NOTES:
1. PROVIDE ONE (1) ANGLE FOR EACH 4" OF MASONRY WIDTH.
2. BEAR LINTELS 6" MINIMUM EACH SIDE OF OPENING.
3. ALL LINTELS IN EXTERIOR WALLS TO BE GALVANIZED.
4. WHERE OPENINGS LOCATED NEXT TO COLUMNS OR BEAMS, ATTACH TO STRUCTURAL STEEL, CONNECTION NOT TO PROTRUDE INTO OPENING.
5. CONSULT ARCHITECTURAL, MECHANICAL & ELECTRICAL DRAWINGS FOR OPENING SIZE & LOCATION.



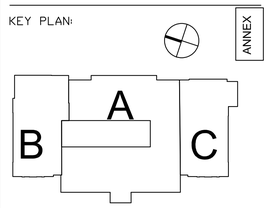
NOTES:
1. FOR SIZE & LOCATION OF OPENINGS SEE ARCHITECTURAL & MECHANICAL DRAWINGS.
2. STEEL CONTRACTOR SHALL VERIFY ALL OPENINGS AND EXACT LOCATIONS WITH THE TRADE CONTRACTOR REQUIRING SAID OPENINGS PRIOR TO FABRICATION & ERECTION OF STEEL FRAMES.
3. PROVIDE STEEL FRAMES AS SHOWN AROUND ALL REQUIRED OPENINGS LARGER THAN 8" AT ROOF.
4. PROVIDE STEEL ANGLES ON ALL SIDES OF OPENINGS UNLESS BEAM IS SHOWN ON PLAN. ANGLE SIZES TO BE:
   FOR "51" OR "52" ≤ 6'-6" L-4"x4"x5/16"
   FOR "51" OR "52" > 6'-6" L-6"x6"x3/8"
5. PROVIDE STEEL ANGLES ON ALL SIDES OF MECH'L CURBS UNLESS BEAM IS SHOWN ON PLAN. ANGLE SIZES TO BE L-6"x6"x3/8".
6. FOR SIZE & LOCATION OF MECH'L UNITS, SEE ARCH'L & MECH'L DWGS.

TYPICAL OPNG. DETAIL @ EXIST'G. ROOF & UNDER MECH'L CURB

Harrison – Hamnett, P.C.
Consulting Engineers
40 Knowles Street Pennington, New Jersey 08534
Ph: 609-818-1808 www.hhpcnse.com

MARK W. GAFFNEY, NJPE #24GE04284100 DATE

KEY PLAN:



No.	Date	Description
	12/08/25	OUT TO BID
	12/03/25	DCA Submission

Revisions / Issues

DIGroupArchitecture
ARCHITECTURE FOR CHANGE
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Richard D. Alderiso , AIA
NJ RA AI 15023, NY RA 027416, PA RA 405474

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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date: 7/18/2025
Drawn By: MWG
Checked By:

Sheet Name:
TYPICAL DETAILS

Sheet No:
S-102
Sheet 0 of 000

Drawing name: D:\Jobs\25250 - Rowan Glassboro Intermediate School (2025) - BIG\25250 Rowan GIS Framing.dwg
Date: Dec. 08, 2025 - 1:19pm

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N.J.S.P.C.S.
NAD83

East Forcer Street (Also Known As Fish Pond Road)
(50' Wide)

Delsea Drive (State Route 47)

Glassboro Intermediate School
3-Story Brick Building

1-Story Brick Building

Asphalt Paving

Conc. Sidewalk

Grass

Chain Link Fence

Electric Transformer

Goal Post

Ramp

Steps

Hedge Row

Flagpole

Sign

Gas Meter

Lot 25

Lot 24

Lot 23

Block 412

Lot 22

Lot 21

Lot 20

Lot 3

Lot 4

Lot 5

Lot 6

Lot 7

Lot 8

Lot 9

Lot 10

Lot 11

Lot 12
(Cemetary)

GRAPHIC SCALE
(IN FEET)
1 inch = 30 ft.

LEGEND

- PROPERTY LINE
- CONCRETE CURB
- EDGE OF PAVEMENT
- EXISTING BUILDING LINE
- SEWER LINE — S —
- WATER LINE — W —
- OVER HEAD WIRE — O.H. — O.H. —
- GAS LINE — G —
- MAJOR CONTOUR
- MINOR CONTOUR
- EXISTING FENCE — × — × —
- SEWER MANHOLE
- GAS VALVE
- UTILITY VALVE
- WATER TEST STATION
- FIRE HYDRANT
- UTILITY POLE
- LIGHT POLE
- BENCH
- TREE
- BENCHMARK
- SIGN
- PROPERTY CORNER
- EXISTING STEPS

NOTES:

1. HORIZONTAL DATUM: NEW JERSEY STATE PLANE COORDINATE SYSTEM, (NAD 83), VERTICAL DATUM: NAVD 88, ESTABLISHED BY GLOBAL POSITIONING SYSTEM METHODOLOGY.
2. EXISTING FEATURES AND ELEVATIONS SHOWN HEREON ARE DEPICTED AS THEY EXISTED IN DECEMBER 2018 AS SURVEYED BY KS ENGINEERS, P.C.

KEY PLAN:

ANNEX

A
B
C

No.	Date	Description
	12/08/25	OUT TO BID
	12/03/25	DCA Submission

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Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024 KSE #2590
Date: 12.03.2025
Drawn By:
Checked By:

Sheet Name:
EXISTING SITE PLAN

Sheet No:
C-100
Sheet 1 of 10

Z:\2022-2590\06 - TECHNICAL (SURVEY, REPORTS, CALCS, CADD)\CADD\PLANS\2025 REVISIONS\

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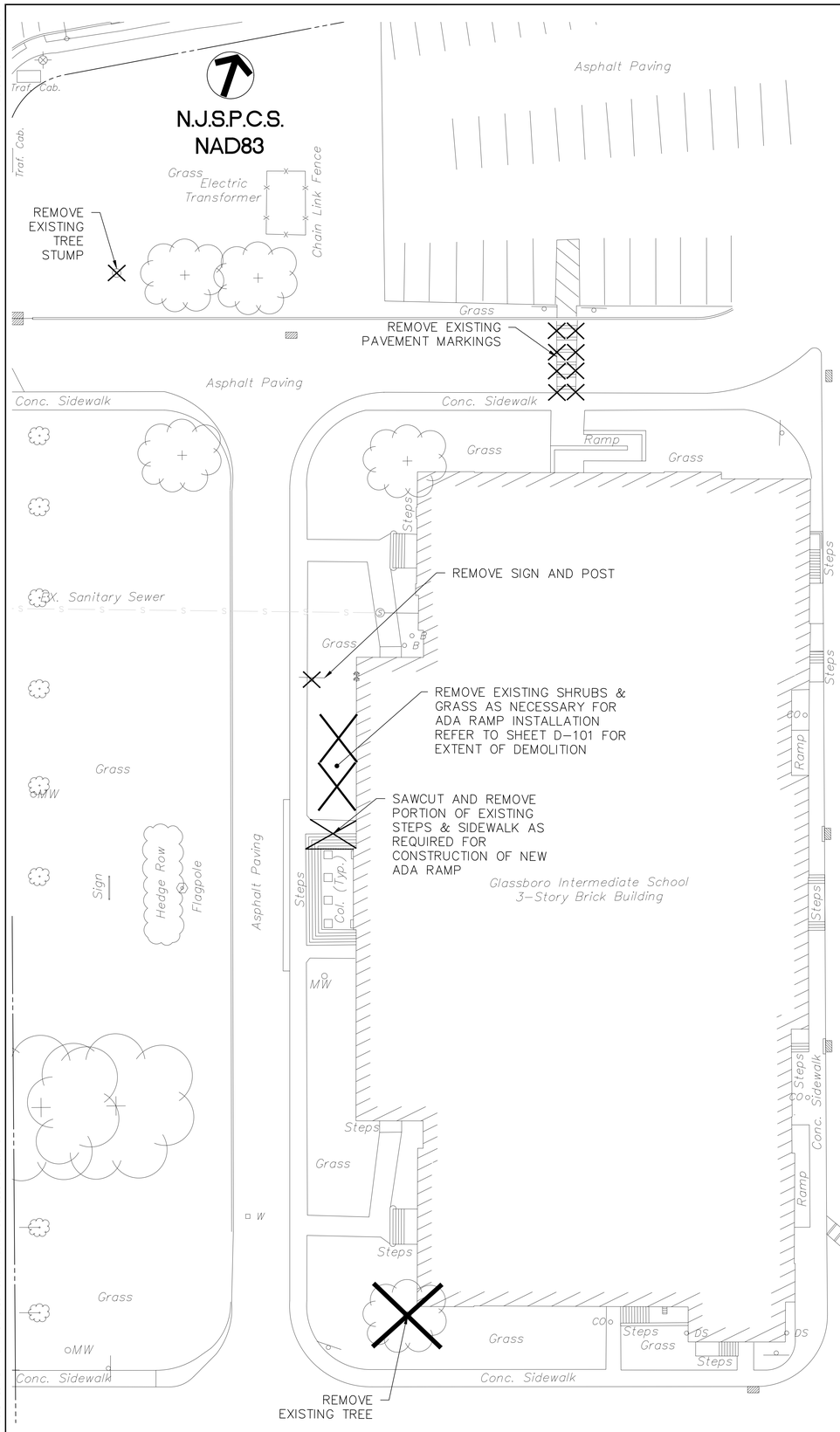
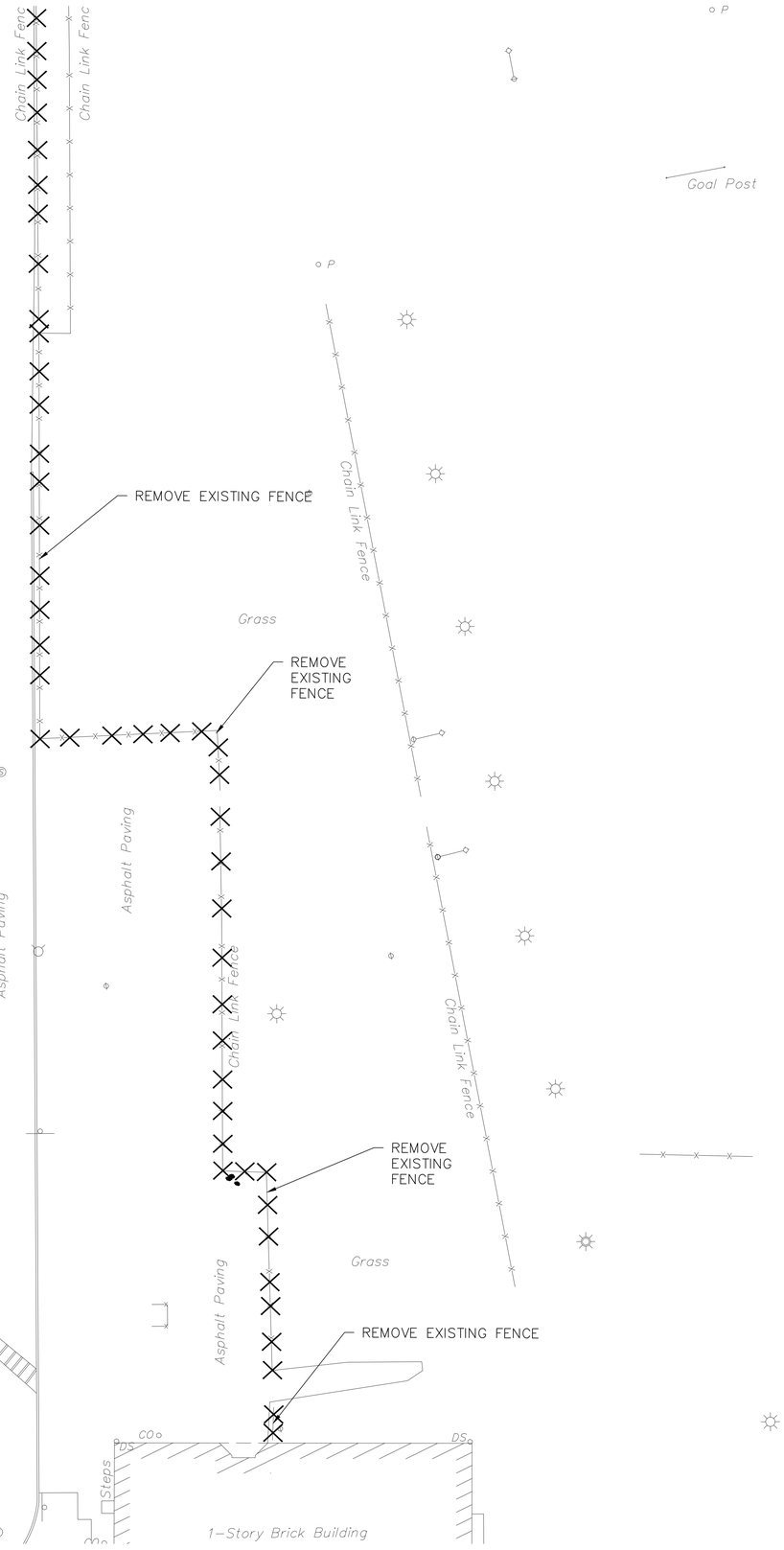




CALL BEFORE YOU DIG
IN NJ, TOLL FREE
1-800-272-1000
FOR FREE MARKOUTS TO LOCATE UNDERGROUND UTILITIES
" IT'S THE LAW "
GARDEN STATE UNDERGROUND PLANT LOCATION SERVICE, INC.

UTILITY CONTACT LIST

IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE NEW JERSEY "ONE CALL SYSTEM" AT LEAST THREE (3) WORKING DAYS IN ADVANCE (UNLESS OTHERWISE NOTED) PRIOR TO START OF CONSTRUCTION FOR UTILITY MARK-OUT.

NEW JERSEY ONE CALL 1-800-272-1000

BOROUGH xxxxxxxxxxxx
xxxx xxxxxxxxxxxxxx
xxxxxxxxxxxxxxxx, NJ xxxxx
(xxx) xxx-xxxx

PSE&G
80 PARK PLAZA
NEWARK, NJ 07102
(973)430-700

COMCAST CABLE
1846 N. WEST BOULEVARD
VINELAND, NJ 08360
(800)266-2278

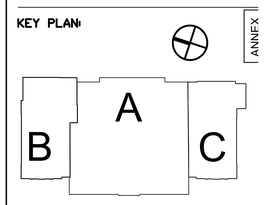
VERIZON
10 TANSBORO ROAD
BERLIN, NJ 08009
(856) 753-1064

DEMOLITION NOTES:

1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATIONS AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
2. THE CONTRACTOR SHALL INSPECT THE SITE THOROUGHLY AND FIELD VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES AND LATERALS. UNDERGROUND ELECTRIC, TELEPHONE, VAULTS, GAS, WATER MAINS, ETC. ARE APPROXIMATE AND MUST BE FIELD VERIFIED. ALL CONTRACTORS USING THESE PLANS FOR CONSTRUCTION SHALL CONFIRM ALL UTILITIES IN THE FIELD FOR EXACT LOCATIONS, SIZES, MATERIALS, AND ELEVATIONS.
3. THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR ON-SITE LOCATIONS OF EXISTING UTILITIES.
4. ALL EXISTING SEWERS, PIPING, AND UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DEMOLITION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH THE WORK. UTILITIES DETERMINED TO BE ABANDONED AND LEFT IN PLACE SHALL BE GROUTED IF UNDER A BUILDING.
5. ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC CABLE AND/OR GAS LINES NEEDING TO BE RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY AS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE. CONTRACTOR SHALL PAY CLOSE ATTENTION TO EXISTING UTILITIES WITHIN ANY ROAD RIGHT-OF-WAY DURING CONSTRUCTION.
6. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE REQUIRED. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES.
7. THE CONTRACTOR SHALL REVIEW AND COMPLY WITH ALL PROVISIONS OF THE BOROUGH OF GLASSBORO, AND GLOUCESTER COUNTY.
8. THE CONTRACTOR SHALL MAINTAIN AND PROTECT ALL OFFSITE PROPERTY AND STRUCTURES FROM ANY AND ALL DAMAGE DURING THE DEMOLITION OPERATION. THE CONTRACTOR SHALL USE ANY NECESSARY PROTECTION SCREENS, PLATFORMS, BRACING, UNDERPINNING, ETC. TO PROTECT OFFSITE PROPERTY. ANY OFFSITE DAMAGE CAUSED BY THE CONTRACTOR OR HIS AGENTS SHALL BE IMMEDIATELY REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY CONSTRUCTION PERMITS.
10. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
11. THE CONTRACTOR SHALL REMOVE FROM THE SITE ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM DEMOLITION AND SHALL SAFELY AND LEGALLY DISPOSE OF ALL THESE ITEMS IN ACCORDANCE WITH APPLICABLE LOCAL, FEDERAL, STATE AND REGULATORY AUTHORITY HAVING JURISDICTION. RECYCLING MUST BE DONE IN ACCORDANCE WITH APPLICABLE REGULATIONS. BURNING OF ANY DEMOLISHED MATERIALS ON-SITE SHALL NOT BE PERMITTED. RECYCLING OF DEMOLITION DEBRIS SHALL BE APPROVED BY THE OWNER.
12. IN AREAS OF EXCAVATION, ALL EXISTING UTILITIES TO REMAIN SHALL BE CHECKED FOR PROPER COVER AS REQUIRED BY THE UTILITY OWNER. SHOULD MINIMUM COVER NOT EXIST, THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH SAID UTILITY COMPANY TO LOWER THE UTILITY TO PROVIDE PROPER COVER AT NO COST TO THE OWNER.
13. THE CONTRACTOR IS RESPONSIBLE FOR THE COSTS AND INSTALLATION OF DEMOLITION/CONSTRUCTION FENCE. THE CONTRACTOR SHALL PROVIDE A TEMPORARY FENCE ALONG ALL PROPERTY LINES TO FULLY ENCLOSE AND PROTECT THE WORK AREA.
14. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIME WITH FENCING, BARRICADES, ENCLOSURES, ETC.
15. THE CONTRACTOR SHALL INSTALL ALL EROSION CONTROL DEVICES PRIOR TO THE START OF DEMOLITION.
16. EVERY EFFORT SHOULD BE MADE TO PROTECT EXISTING TREES TO REMAIN ON THE PROPERTY IN THE PROCESS OF GRADING OR INSTALLING IMPROVEMENTS.
17. CONTRACTOR MAY LIMIT SAW-CUT AND PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THESE CONSTRUCTION PLANS BUT IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IT'S REMOVAL AND REPAIR AT HIS SOLE EXPENSE.
18. DAMAGE TO ALL EXISTING CONDITIONS TO REMAIN WILL BE REPLACED/REPAIRED AT THE CONTRACTOR'S EXPENSE.

GRAPHIC SCALE
(IN FEET)
1 inch = 30 ft.

KEY PLAN:



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Drawing Information:
Project No: 25.024 KSE #2590
Date: 12.03.2025
Drawn By:
Checked By:

Sheet Name:
DEMOLITION PLAN

Sheet No:
C-101
Sheet 2 of 10

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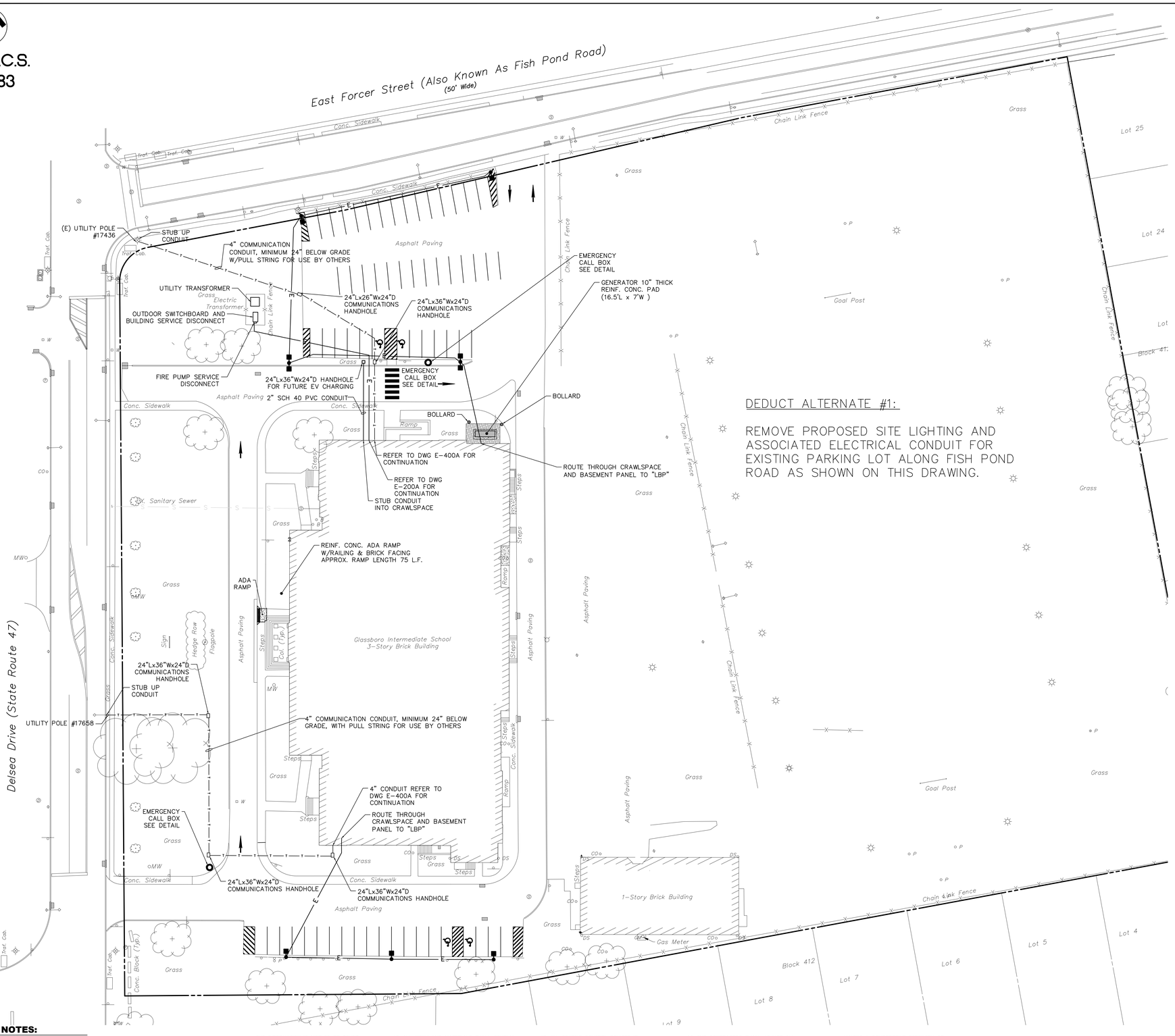


DEDUCT ALTERNATE #1:

REMOVE PROPOSED SITE LIGHTING AND ASSOCIATED ELECTRICAL CONDUIT FOR EXISTING PARKING LOT ALONG FISH POND ROAD AS SHOWN ON THIS DRAWING.

GRAPHIC SCALE

(IN FEET)
1 inch = 30 ft.

LEGEND

- PROPERTY LINE
- EXISTING CONCRETE CURB
- PROPOSED CONCRETE CURB
- EDGE OF PAVEMENT
- EXISTING BUILDING LINE
- PROPOSED BUILDING
- PROPOSED CONCRETE SIDEWALK
- EXISTING GAS LINE
- PROPOSED GAS LINE
- EXISTING SEWER LINE
- PROPOSED SEWER LINE
- EXISTING WATER LINE
- PROPOSED WATER LINE
- EXISTING STORM PIPE
- PROPOSED STORM PIPE
- UTILITY VALVE
- TREE
- EXISTING SIGN
- EXISTING GAS VALVE
- GREEN ROOF DRAIN
- BUILDING ENTRY WAY
- PROPOSED HANDICAP PAVEMENT MARKING
- CLEANOUT
- EXISTING SEWER MANHOLE
- PROPOSED STORM MANHOLE
- TRENCH DRAIN
- SUPPORT COLUMN
- CONCRETE WHEEL STOP
- PROPOSED STORM INLET
- PROPOSED FLOW ARROW
- UTILITY POLE

ZONING FOR THE BOROUGH OF GLASSBORO CHAPTER 107, ARTICLE VIII PUBLIC DISTRICT (P)

APPLICABLE REGULATIONS	PERMITTED/REQUIRED (PUBLIC ZONE)	PROPOSED
USE REGULATIONS: *(ORDINANCE SECTION §107-114.A)*	STATE COLLEGE ADMINISTRATIVE BUILDING	STATE COLLEGE ADMINISTRATIVE BUILDING
MINIMUM LOT AREA (SQUARE FEET): *(§107-114.D.1)*	30,000	430,530
MINIMUM LOT WIDTH (FEET): *(§107-114.D.2)*	150	584.17
MINIMUM LOT DEPTH (FEET): *(§107-114.D.3)*	150	738.60
MINIMUM FRONT YARD (FEET): *(§107-114.D.4)*	30	119.94
MINIMUM SIDE YARD (FEET): *(§107-114.D.5)*	50	88.39
MINIMUM REAR YARD (FEET): *(§107-114.D.6)*	50	N/A
MINIMUM LANDSCAPED PORTION (%): *(§107-114.D.7)*	15	17.6 (75,775 SF)
MAXIMUM FLOOR AREA RATIO: *(§107-114.D.8)*	0.20	XX
MAXIMUM BUILDING HEIGHT (FEET): *(§107-114.D.9)*	30	> 30
MAXIMUM LOT COVERAGE (%): *(§107-114.D.10)*	60	45 (193,714 SF)

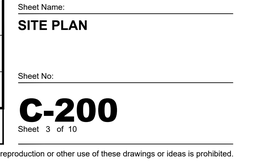
APPLICABLE PARKING REGULATIONS	PERMITTED/REQUIRED	PROPOSED
MINIMUM PARKING REQUIREMENTS *(§107-54.K)*	60	60
MAXIMUM PARKING SPACES IN FRONT YARD *(§107-54.L.4)*	20% (12 SPACES)	5% (3 SPACES)
MINIMUM PARKING SPACE DIMENSIONS *(§107-54.E.1)*	10' x 20'	9' x 18'
MINIMUM PARKING AISLE WIDTH (FEET) *(§107-54.E.1)*	90° PARKING: 24 60° PARKING (ONE-WAY): 18	90° PARKING: 24 60° PARKING (ONE-WAY): 24

GENERAL NOTES:

1. APPLICANT/OWNER OF RECORD:
   ROWAN UNIVERSITY
   201MULLICA HILL ROAD
   GLASSBORO, NJ 08028
2. PROPERTY ADDRESS:
   202 DELSEA DRIVE
   GLASSBORO, NJ 08028

   TAX MAP NUMBER: BLOCK 26, LOT 412.
3. IT IS IMPERATIVE THAT UTILITY COMPANIES ARE NOTIFIED PRIOR TO ANY EXCAVATION AND/OR CONSTRUCTION. CALL 1-800-272-1000 TO ORDER UTILITY MARK-OUTS.
4. ALL DRAWINGS IN THIS PLAN SET ARE MADE PART OF THIS RECORD PLAN AND ALL INFORMATION SHOWN HEREON SHALL BE CONSIDERED APPLICABLE FOR THE COMPLETION OF THIS PROJECT. INDIVIDUAL PLANS SHALL NOT BE USED SINCE THEY CONSTITUTE ONLY A PART OF THE COMPLETE SET OF PLANS FOR THIS PROJECT.
5. EXISTING FEATURES AND ELEVATIONS SHOWN HEREON ARE DEPICTED AS THEY EXISTED IN DECEMBER 2018 AS SURVEYED BY KS ENGINEERS, P.C
6. ALL DIMENSIONS ARE IN UNITED STATES STANDARD UNITS.
7. ALL DIMENSIONS AND RADII ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
8. ALL INFORMATION SHOWN WITH SLANT AND/OR SCREENED TEXT REPRESENTS EXISTING FEATURES.
9. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DETAILS AND DIMENSIONS.
10. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS PRIOR TO THE START OF CONSTRUCTION TO REQUEST EXACT FIELD LOCATION OF UTILITIES BEFORE ANY EXCAVATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, UTILITY LOCATIONS, DEPTHS AND INVERTS PRIOR TO CONSTRUCTION. ANY CONDITIONS FOUND TO DIFFER FROM THOSE SHOWN BY THESE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
11. THE CONTRACTOR SHALL NOTIFY THE BOROUGH OF GLASSBORO AT LEAST ONE WEEK PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION OR INSTALLATION ACTIVITY.
12. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL BOROUGH AND COUNTY REGULATIONS AND CODES AND O.S.H.A. STANDARDS.
13. THE CONTRACTOR SHALL REVIEW AND COMPLY WITH ALL PROVISIONS OF GLOUCESTER COUNTY AND THE BOROUGH OF GLASSBORO STANDARDS AND SPECIFICATIONS.
14. THE CONTRACTOR SHALL FOLLOW ALL LOCAL, STATE, AND FEDERAL REGULATIONS IN DISPOSING OF DEMOLISHED MATERIALS REMOVED FROM THE SITE.
15. ALL PAVEMENT MARKINGS SHALL CONFORM TO THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (LATEST EDITION) FROM THE U.S. DEPARTMENT OF TRANSPORTATION.
16. ALL TRAFFIC CONTROL SIGNS ARE TO BE MOUNTED TO BREAK-AWAY SIGN POSTS.
17. ALL TRAFFIC CONTROL DEVICES IF REQUIRED ARE TO BE INSTALLED IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION).
18. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING PLANS AND SPECIFICATIONS AS REQUIRED FOR ACTUAL LOCATIONS OF ALL UTILITIES ENTERING THE BUILDING, INCLUDING SANITARY SEWER LATERALS, DOMESTIC WATER SERVICE AND FIRE PROTECTION, ELECTRIC, TELEPHONE AND GAS SERVICE. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND TO ENSURE PROPER DEPTHS ARE ACHIEVED AS WELL AS COORDINATING WITH THE UTILITY COMPANIES AS TO LOCATION AND SCHEDULING OF CONNECTIONS TO THEIR FACILITIES.
19. THE CONTRACTOR SHALL ADJUST ALL EXISTING AND PROPOSED UTILITY FRAMES, COVERS, MANHOLES, VALVE BOXES, ETC. TO BE FLUSH WITH THE PROPOSED SURFACE ELEVATIONS AS NEEDED.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY CONSTRUCTION PERMITS INCLUDING BUT NOT LIMITED TO BUILDING, SIDEWALK AND DEMOLITION.
21. ALL CONSTRUCTION REQUIREMENTS AND MATERIAL SPECIFICATIONS SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS, SPECIFICATIONS, AND DETAILS OF THE BOROUGH OF GLASSBORO, GLOUCESTER COUNTY, GCMUA, NJDEP, AND NJDOT, WHERE APPLICABLE.
22. SIDEWALKS SHALL NOT BE LESS THAN FOUR (4) FEET IN WIDTH. SIDEWALKS SHALL BE CONSTRUCTED WITH FOUR (4) INCH THICK CONCRETE. SIDEWALKS SHALL BE CONSTRUCTED OF 2% TO 4% PORTLAND AIR ENTRAINED CONCRETE, HAVING A COMPRESSIVE STRENGTH OF 3,500 POUNDS PER SQUARE INCH AT 28 DAYS. SURFACE SHALL BE WOOD FLOAT OR BROOM FINISH.
23. SIDEWALKS SHALL SLOPE GRADUALLY SO AS TO PROVIDE AN UNINTERRUPTED LINE OF TRAVEL. PARKED VEHICLES SHALL NOT OVERHANG OR EXTEND OVER SIDEWALK AREAS, UNLESS AN ADDITIONAL SIDEWALK WIDTH OF 2 ½ FEET IS PROVIDED TO ACCOMMODATE SUCH OVERHANG.
24. THE OWNER, OR HIS REPRESENTATIVE, IS TO DESIGNATE AN INDIVIDUAL RESPONSIBLE FOR CONSTRUCTION SITE SAFETY DURING THE COURSE OF SITE IMPROVEMENTS PURSUANT TO N.J.A.C. 5:23-2.21(E) OF THE NEW JERSEY UNIFORM CONSTRUCTION CODE AND CFR 1926.32(F)(O.S.H.A. COMPETENT PERSON).

KEY PLAN:



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Drawing Information:
Project No: 25.024 KSE #2590
Date: 12.03.2025
Drawn By:
Checked By:

Sheet Name:
SITE PLAN

Sheet No:
C-200
Sheet 3 of 10

Z:\2022-25\DWGs - TECHNICAL (SURVEY, REPORTS, CALC, CADD)\CADD\PLANS\2025 REVISIONS\

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N.J.S.P.C.S.
NAD83

East Forcer Street (Also Known As Fish Pond Road)
(50' Wide)

Conc. Sidewalk
Trot. Cab.
Chain Link Fence
Grass
Lot 25
Lot 2
Block L
Asphalt Paving
Electric Transformer
Goal Post
Ramp
Steps
Col. (Typ.)
Sanitary Sewer
ADA RAMP
Glassboro Intermediate School
3-Story Brick Building
Sign
Hedge Row
Flagpole
1-Story Brick Building
Gas Meter
Conc. Block (Typ.)
Delsea Drive (State Route 47)
Block 412
Lot 4
Lot 5
Lot 6
Lot 7
Lot 8
Lot 9
Lot 10
Lot 11

DEDUCT ALTERNATE #2:

REMOVE PROPOSED PARKING LOT ASPHALT SEAL COAT OVER EXISTING PAVEMENT AS SHOWN ON THIS DRAWING.

LEGEND

ALTERNATE #2:
SEAL COAT OVER EXISTING ASPHALT
(APPROX. 6,367 S.Y.)

KEY PLAN:

A
B
C

No.	Date	Description
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Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea D
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024 KSE #2590
Date: 12.08.2025
Drawn By:
Checked By:

Sheet Name:
PAVEMENT PLAN

Sheet No:
C-201
Sheet 4 of 10

GRAPHIC SCALE
(IN FEET)
1 inch = 30 ft.

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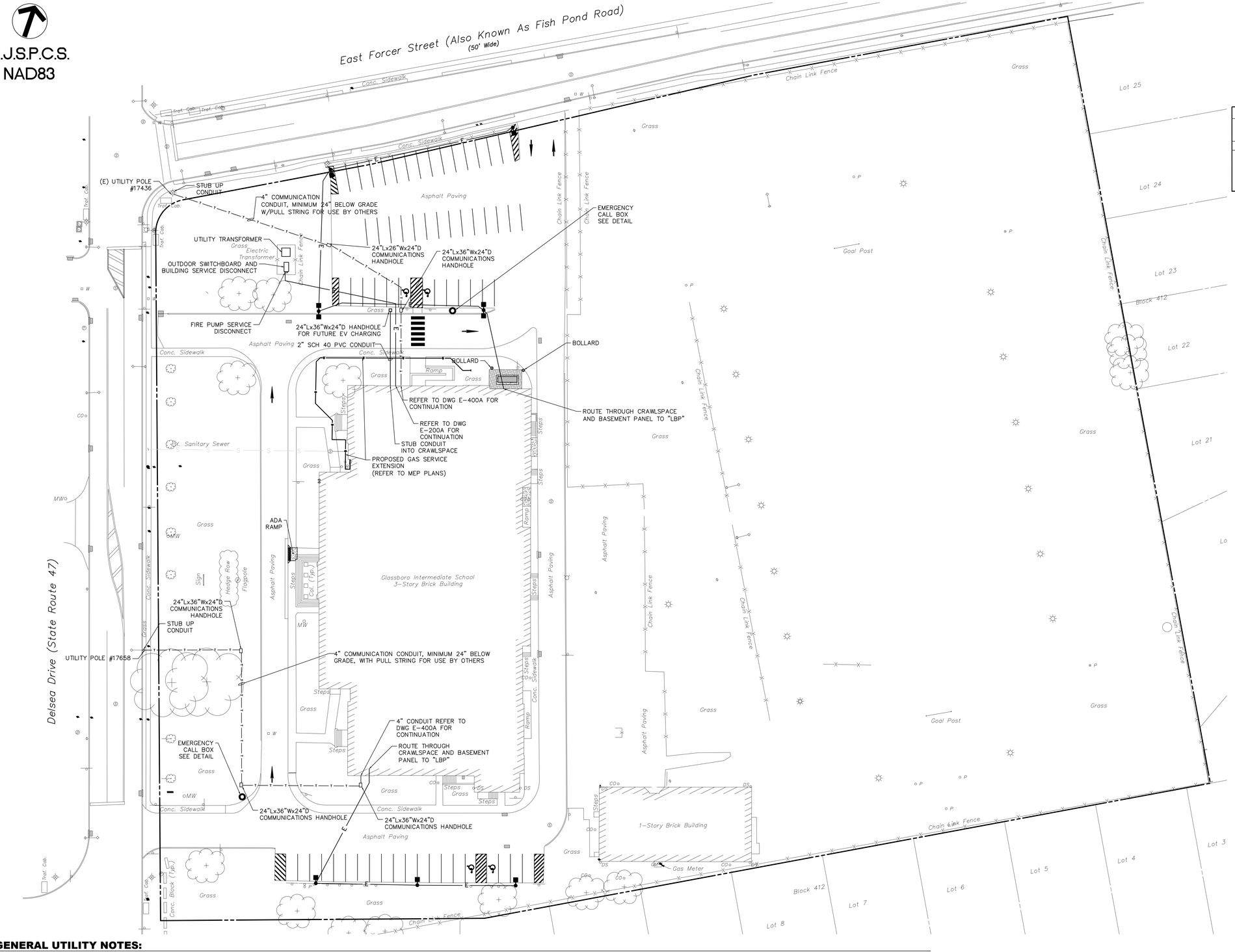
Z:\2022-2590\DWG - TECHNICAL (SURVEY, REPORTS, CALC, CADD)\CADD\PLANS\2025 REVISIONS\

N.J.S.P.C.S.
NAD83



CALL BEFORE YOU DIG
IN NJ, TOLL FREE
1-800-272-1000
FOR FREE MARKOUTS TO LOCATE UNDERGROUND UTILITIES
" IT'S THE LAW "
GARDEN STATE UNDERGROUND PLANT LOCATION SERVICE, INC.

UTILITY CONTACT LIST

IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE NEW JERSEY "ONE CALL SYSTEM" AT LEAST THREE (3) WORKING DAYS IN ADVANCE (UNLESS OTHERWISE NOTED) PRIOR TO START OF CONSTRUCTION FOR UTILITY MARK-OUT.

NEW JERSEY ONE CALL 1-800-272-1000

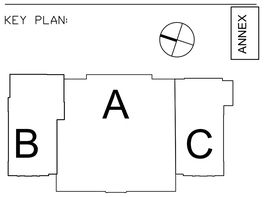
BOROUGH OF XXXXXXXXXX XXXX XXXXXXXXXX XXXXXXXX, NJ XXXXX (XXX) XXX-XXXX	PSE&G 80 PARK PLAZA NEWARK, NJ 07102 (973)430-700
COMCAST CABLE 1846 N. WEST BOULEVARD VINELAND, NJ 08360 (800)266-2278	VERIZON 10 TANSBORO ROAD BERLIN, NJ 08009 (856) 753-1084

LEGEND

- PROPERTY LINE
- EXISTING CONCRETE CURB
- PROPOSED CONCRETE CURB
- EDGE OF PAVEMENT
- EXISTING BUILDING LINE
- PROPOSED BUILDING
- GREEN ROOF
- PROPOSED CONCRETE SIDEWALK
- EXISTING GAS LINE — G —
- PROPOSED GAS LINE — G —
- EXISTING SEWER LINE — S —
- PROPOSED SEWER LINE — S —
- EXISTING WATER LINE — W —
- PROPOSED WATER LINE — W —
- EXISTING STORM PIPE — D —
- PROPOSED STORM PIPE — D —
- UTILITY VALVE — UV
- TREE — 14"
- EXISTING SIGN
- PROPOSED SIGN
- EXISTING GAS VALVE
- GREEN ROOF DRAIN
- BUILDING ENTRY WAY
- PROPOSED HANDICAP PAVEMENT MARKING
- CLEANOUT
- EXISTING SEWER MANHOLE — S —
- PROPOSED STORM MANHOLE
- TRENCH DRAIN
- SUPPORT COLUMN — H
- CONCRETE WHEEL STOP
- PROPOSED STORM INLET
- PROPOSED FLOW ARROW
- UTILITY POLE

GRAPHIC SCALE
(IN FEET)
1 inch = 30 ft.

KEY PLAN:



No.	Date	Description
	12/08/25	OUT TO BID
	12/03/25	DCA Submission

Revisions / Issues

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Project No: 25.024 KSE #2590
Date: 12.03.2025
Drawn By: SS
Checked By:

Sheet Name:
UTILITY PLAN

Sheet No:
C-400
Sheet 5 of 10

GENERAL UTILITY NOTES:

1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY PRIOR TO THE START OF CONSTRUCTION AT LEAST 72 HOURS TO REQUEST EXACT FIELD LOCATION OF UTILITIES BEFORE ANY EXCAVATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, UTILITY LOCATIONS, DEPTHS AND INVERTS PRIOR TO CONSTRUCTION. ANY CONDITIONS FOUND TO DIFFER FROM THOSE SHOWN BY THESE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
2. LOCATIONS OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM EXISTING RECORDS AND/OR ABOVE-GROUND OBSERVATIONS AT THE SITE. COMPLETENESS OR ACCURACY OF LOCATIONS AND DEPTH CANNOT BE GUARANTEED. ALL CONTRACTORS AND OTHER PERSONS UTILIZING THIS PLAN AND THE INFORMATION CONTAINED THEREON ARE CAUTIONED THAT EACH INDIVIDUAL USING THIS PLAN MUST VERIFY THE LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES BEFORE STARTING WORK.
3. IT IS IMPERATIVE THAT UTILITY COMPANIES ARE NOTIFIED PRIOR TO ANY EXCAVATION AND/OR CONSTRUCTION. CALL 1-800-272-1000 TO ORDER MARK-OUTS.
4. ALL REQUIRED OFF-SITE ROAD IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE NEW JERSEY DEPARTMENT OF TRANSPORTATION (NJDOT) "CONSTRUCTION STANDARDS" MOST CURRENT EDITION. ALL OTHER REQUIRED IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH APPROVED SPECIFICATIONS AND/OR THE BOROUGH OF COLLINGSWOOD ENGINEERING STANDARDS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY CONSTRUCTION PERMITS INCLUDING BUT NOT LIMITED TO BUILDING, SIDEWALK/STREET CLOSING AND DEMOLITION.
6. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ACTUAL LOCATIONS OF ALL UTILITIES ENTERING THE BUILDING, INCLUDING SANITARY SEWER LATERALS, DOMESTIC WATER SERVICE AND FIRE PROTECTION, ELECTRIC, TELEPHONE AND GAS SERVICE. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND TO ENSURE PROPER DEPTHS ARE ACHIEVED, AS WELL AS COORDINATING WITH THE UTILITY COMPANIES AS TO LOCATION AND SCHEDULING OF CONNECTIONS TO THEIR FACILITIES.
7. THE CONTRACTOR SHALL REFERENCE ALL BOROUGH OF COLLINGSWOOD SPECIFICATIONS FOR UTILITY MATERIALS AND CONSTRUCTION, INCLUDING TRAPS AND VENTS REQUIRED ON SEWER LINES. THE CONTRACTOR SHALL REVIEW AND COMPLY WITH ALL PROVISIONS OF BOROUGH OF COLLINGSWOOD AND STATE OF NEW JERSEY STANDARDS AND REGULATIONS.
8. THE ROUTING OF ALL UTILITIES IS SUBJECT TO ADJUSTMENT TO MEET UTILITY COMPANY REQUIREMENTS AND SPECIFICATIONS OF THE BUILDING MECHANICAL DESIGN.
9. IF CONNECTING TO AN EXISTING SANITARY SEWER MAIN OR MANHOLE, UTILIZE AN INSERTA-LOK OR APPROVED EQUAL CONCRETE MANHOLE ADAPTER.
10. NO LATERAL MAY BE DEEPER THAN 9 FEET AT ITS FREE END, MEASURED TO THE INVERT, UNLESS PERMITTED BY THE ENGINEER. LATERALS SHALL BE CONNECTED TO THE SEWER MAIN WITH A TEE WYE FITTING WITH THE SWEEP INSTALLED IN THE DIRECTION OF FLOW.
11. THE FREE END OF ALL LATERALS MUST BE PLUGGED WITH AN APPROVED PUSH-ON TYPE PLUG. WHEN THE FREE END OF THE LATERAL IS LESS THAN TWO (2) FULL PIPE LENGTHS FROM THE SEWER MAIN, OR WHEN REQUIRED BY THE ENGINEER, AN APPROVED MECHANICAL EXPANSION PLUG SHALL BE USED. ALL PLUGS MUST BE CAPABLE OF WITHSTANDING THE REQUIRED AIR TEST AND MUST BE WATERTIGHT.
12. ROCK IN ALL LATERAL TRENCHES MUST BE REMOVED TO A POINT NO LESS THAN TWO (2) FEET BEYOND THE END OF THE PIPE.
13. WATER MAINS ARE TO BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE REGULATING AGENCIES AND UTILITY.
14. SEWERS CONVEYING SANITARY FLOW SHALL BE SEPARATED FROM WATER MAINS BY A DISTANCE OF AT LEAST 10 FEET HORIZONTALLY, IF SUCH LATERAL SEPARATION IS NOT POSSIBLE, THE PIPES SHALL BE IN SEPARATE TRENCHES WITH THE SEWER AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN. WHEN APPROPRIATE SEPARATION FROM A WATER MAIN IS NOT POSSIBLE, THE SEWER SHALL BE ENCASED IN CONCRETE FOR A DISTANCE OF AT LEAST 10 FEET ON EITHER SIDE OF THE CROSSING.
15. SANITARY SEWER FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH REQUIREMENTS OF THE UTILITY AUTHORITY, NJDEP REGULATIONS, THE PLUMBING CODE OF NEW JERSEY, AND THE PLUMBING CODE OF THE BOROUGH OF COLLINGSWOOD.
16. ALL SEWER AND WATER SERVICE CONNECTIONS ARE MEASURED FROM THE FACE OF BUILDING TO THE CENTER OF EXISTING UTILITIES AND REPRESENTS LINEAR FOOTAGE IN PLAN VIEW. ACTUAL PIPE LENGTH MAY VARY DUE TO PIPE SLOPE.
17. THE PROPOSED 6" SCHEDULE 40 PVC LATERAL SHALL BE GLUED BELL & SPIGOT TYPE PIPE.
18. ALL WATER, SEWER AND GAS MAINS SHALL BE INSTALLED UNDERGROUND. ALL ELECTRIC, TELEPHONE AND COMMUNICATIONS SERVICES, BOTH MAIN AND SERVICE LINES, SHALL BE PROVIDED BY UNDERGROUND CABLES.
19. ALL INSTALLED SEWER MAINS SHALL BE TESTED IN ACCORDANCE WITH BOROUGH OF COLLINGSWOOD AND/OR COMUA REGULATIONS PRIOR TO FINAL ACCEPTANCE.
20. THE SEWER LINE SHALL BE FREE OF ALL DEBRIS, INCLUDING BUT NOT LIMITED TO SAND, SILT, GROUT, CONCRETE, STONES, STICKS AND ANY OTHER CONSTRUCTION DEBRIS. THE CLEANING AND REMOVAL OF THE DEBRIS SHALL BE AT THE CONTRACTOR'S EXPENSE. ALL CLEANING SHALL BE PREFORMED IN A MANNER ACCEPTABLE TO THE BOROUGH/CCMUA.
21. A TEMPORARY, LEAK PROOF BULKHEAD TYPE PLUG SHALL BE INSTALLED IN THE UPSTREAM (INLET) SIDE OF THE MANHOLE FURTHEST DOWNSTREAM IN ANY SEWER MAIN UNDER CONSTRUCTION AND SHALL REMAIN INTACT AND UNLOOSENED UNTIL PERMISSION IS RECEIVED BY THE BOROUGH/CCMUA TO REMOVE THE SAME. THIS PERMISSION WILL NOT BE GRANTED UNTIL EACH SECTION OF THE SEWER HAS BEEN CLEANED AND FLUSHED IN A MANNER ACCEPTABLE TO THE BOROUGH/CCMUA. TAMPERING WITH THE PLUG SHALL SUBJECT THE APPLICANT TO A PENALTY TO BE ESTABLISHED BY THE BOROUGH/CCMUA.
22. UTILITY CONNECTIONS MADE WITHIN THE COUNTY ROAD SHALL MAKE TRENCH REPAIRS IN ACCORDANCE WITH THE COUNTY DETAILS. THE EXISTING ROADWAY IS CONCRETE AND REPAIRS OF TRENCHES SHALL BE MADE TO IN ACCORDANCE WITH THE GLOUCESTER COUNTY ROADWAY DETAILS ON SHEET C-400.

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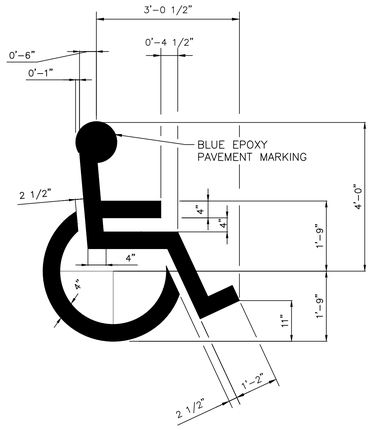
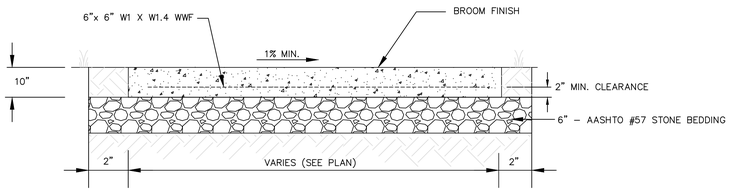


ADA MARKING DETAILS

N.T.S.

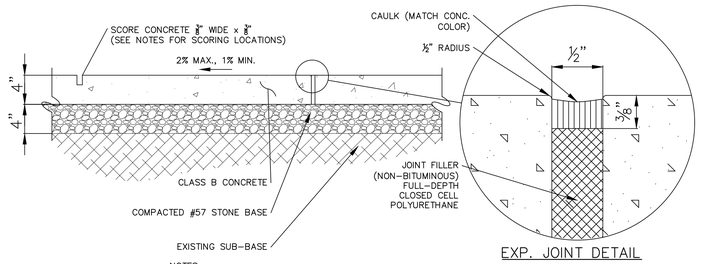


NOTES:

1. PROVIDE 1/2" EXPANSION JOINTS AT 24' CENTER TO CENTER. (MAX)
   PROVIDE TRANSVERSE CONTROL SCORE JOINTS AT 4' CENTER TO CENTER. (MAX)
2. ALL CONCRETE SHALL BE NJDOT CLASS B
3. SEE SITE PLAN FOR DIMENSIONS

CONCRETE PAD

N.T.S.



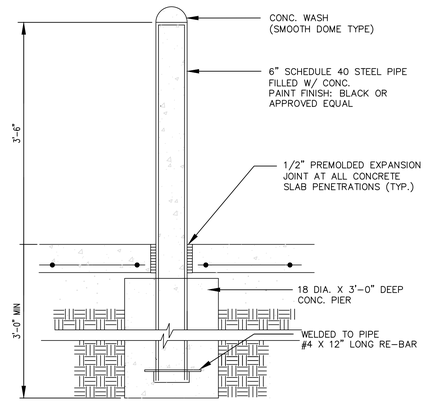
EXP. JOINT DETAIL

NOTES:

1. SPACE EXPANSION JOINTS 20' O.C. UNLESS SHOWN OTHERWISE ON PLANS.
2. INSTALL EXPANSION JOINTS WHERE WALK ABUTS OTHER STRUCTURES.
3. CONCRETE WALKWAY SHALL BE SCORED ON A 5' X 5' GRID. PERPENDICULAR TO THE CURBLINE.

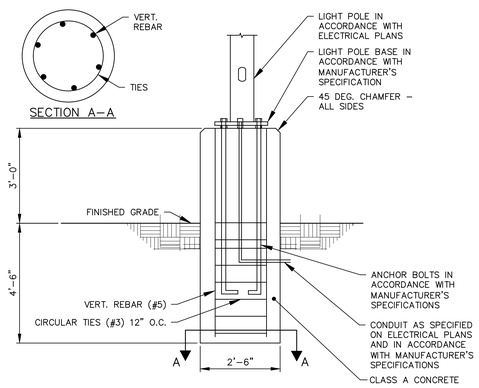
PROPOSED AND REPLACEMENT SIDEWALK DETAIL

SCALE: N.T.S.



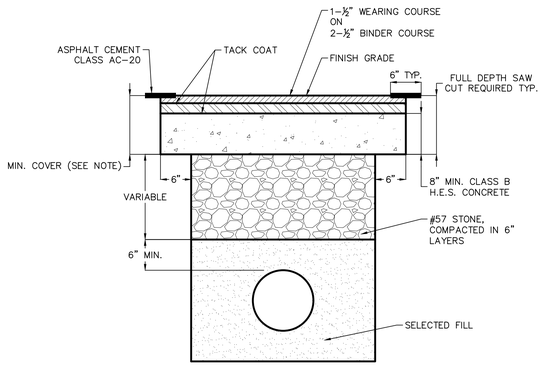
BOLLARD DETAIL

N.T.S.



LIGHT POLE FOUNDATION

N.T.S.

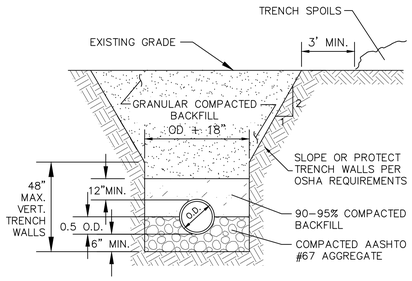


NOTE:

1. MINIMUM COVER: NO STRUCTURE SHALL BE PLACED LESS THAN 24-INCHES BELOW THE CARTWAY OR 15-INCHES BELOW THE FOOTWAY.
2. REPLACE ALL DISTURBED PAVEMENT MARKINGS WITH THERMOPLASTIC TAPE.
3. PAVEMENT MARKINGS MUST BE RESTORED WITHIN 7 DAYS OF TRENCH RESTORATION.
4. ALL RESTORATION BY PERMITTE TO BE IN ACCORDANCE WITH THE LATEST STREETS DEPARTMENT STANDARDS.

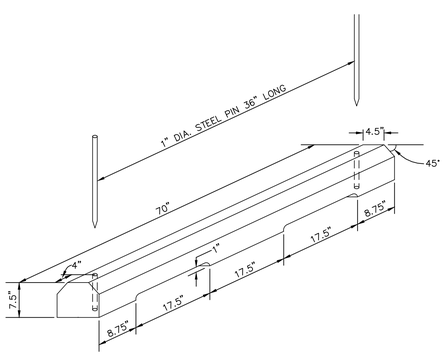
PERMANENT UTILITY TRENCH RESTORATION

N.T.S.



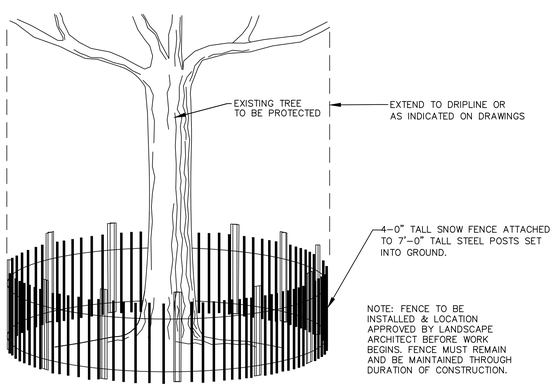
UTILITY TRENCH RESTORATION (IN GRASS)

SCALE: N.T.S.



PINNED CONCRETE WHEEL STOP

N.T.S.

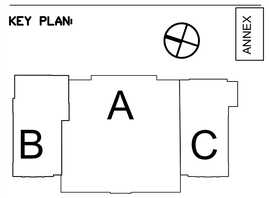


NOTE: FENCE TO BE INSTALLED & LOCATION APPROVED BY LANDSCAPE ARCHITECT BEFORE WORK BEGINS. FENCE MUST REMAIN AND BE MAINTAINED THROUGH DURATION OF CONSTRUCTION.

TREE PROTECTION DETAIL

N.T.S.

KEY PLAN:



No.	Date	Description
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Revisions / Issues

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Date: 12.03.2025
Drawn By:
Checked By:

Sheet Name:
CONSTRUCTION DETAILS 1

Sheet No:
C-500
Sheet 6 of 10

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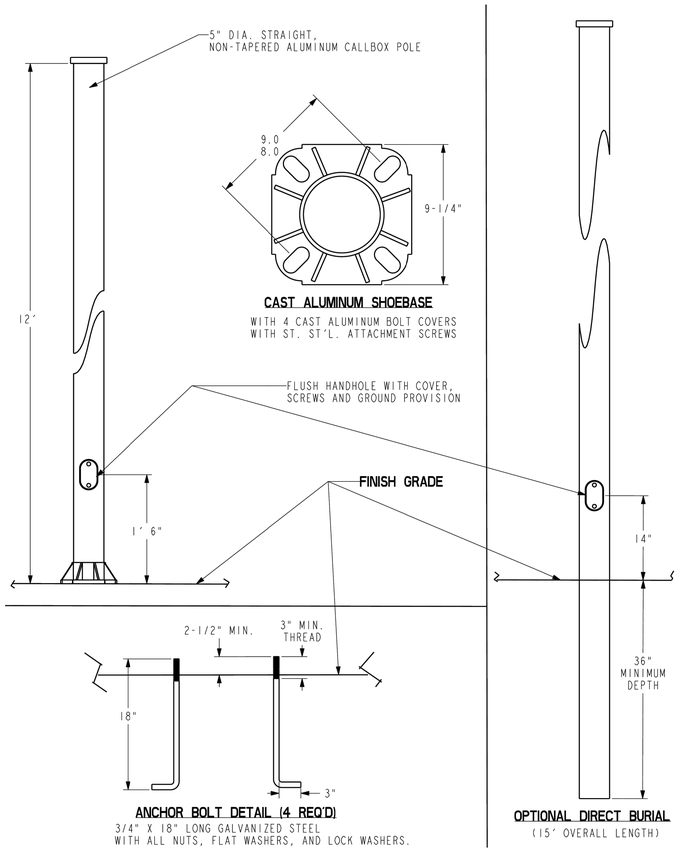
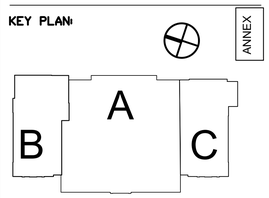


EMERGENCY CALL BOX DETAIL

N.T.S.

KEY PLAN:



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Sheet Name:
CONSTRUCTION DETAILS 3

Sheet No:
C-501
Sheet 7 of 10

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NAD83

SOIL SYMBOL	SOIL DESCRIPTION	% OF SITE	RUNOFF CLASS	HYDRIC SOIL	SLOPE RANGE	DEPTH
USAURAB	URBAN LAND–AURA COMPLEX	100.00%	LOW	NO	0–5%	0"–80"

NOTES:
1. ENTIRE SITE IS COMPRISED OF ONE SOIL TYPE AS NOTED ABOVE.
2. PROJECT SITE IS LOCATED OUTSIDE OF ANY DELINEATED 100–YEAR FLOOD ZONE IN ACCORDANCE TO FEMA FLOOD INSSURANCE RATE MAPS.
3. LIMIT OF DISTURBANCE IS 208,870 SQ. FT. (4.97 ACRES) AND DOES NOT INCLUDE THE EXISTING BUILDING WHICH IS TO REMAIN.

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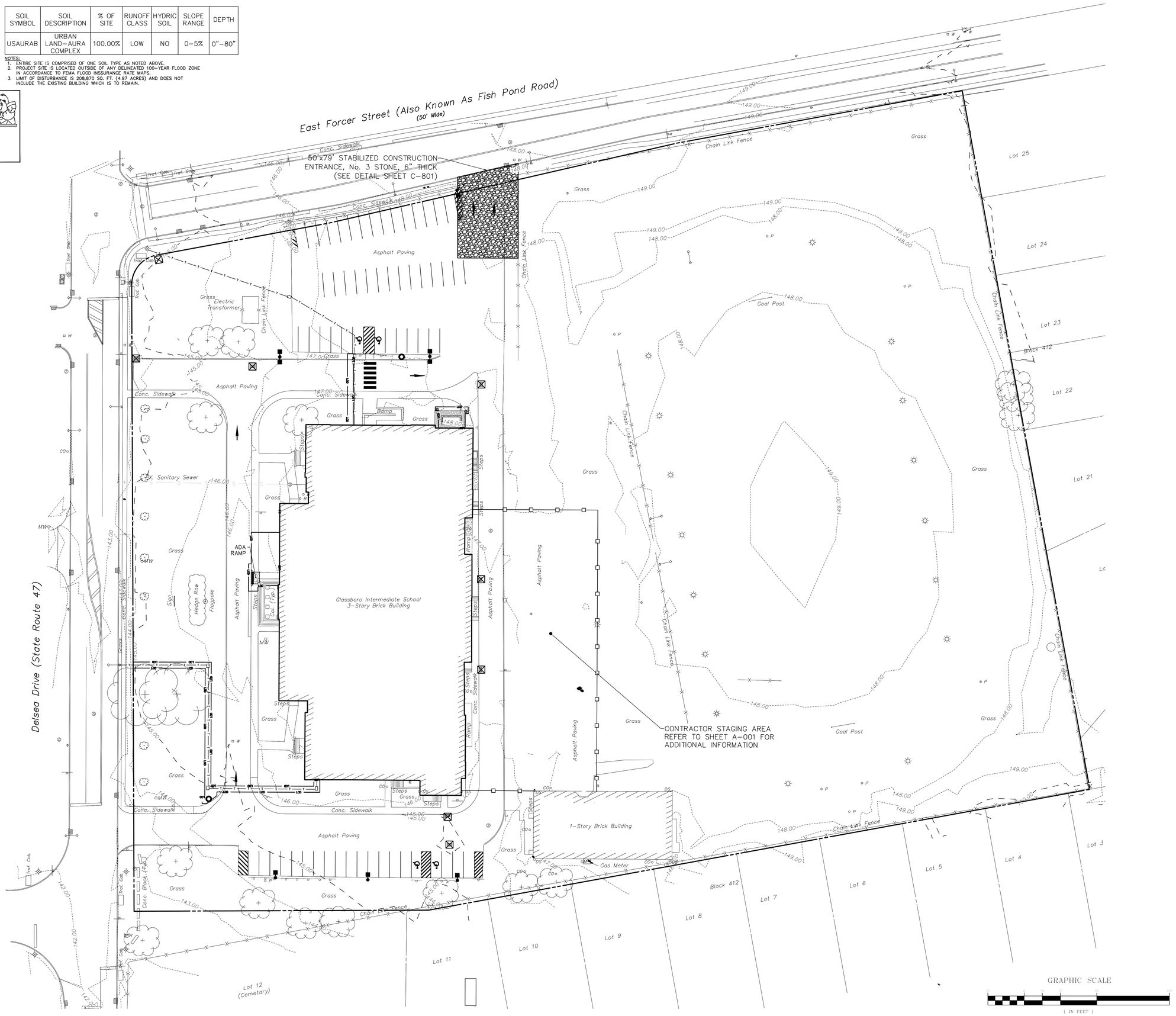

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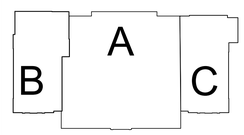

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Sheet Name:
EROSION CONTROL PLAN

Sheet No:
C-800
Sheet 8 of 10

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GLOUCESTER COUNTY SOIL CONSERVATION DISTRICT SOIL EROSION AND SEDIMENT CONTROL NOTES

1. ALL APPLICABLE EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN PLACE PRIOR TO ANY GRADING OPERATION AND/OR INSTALLATION OF PROPOSED STRUCTURES OR UTILITIES.
2. SOIL EROSION AND SEDIMENT CONTROL PRACTICES ON THIS PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY.
3. APPLICABLE EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE LEFT IN PLACE UNTIL CONSTRUCTION IS COMPLETED AND/OR THE AREA IS STABILIZED.
4. THE CONTRACTOR SHALL PERFORM ALL WORK, FURNISH ALL MATERIALS AND INSTALL ALL MEASURES REQUIRED TO REASONABLY CONTROL SOIL EROSION RESULTING FROM CONSTRUCTION OPERATIONS AND PREVENT EXCESSIVE FLOW OF SEDIMENT FROM THE CONSTRUCTION SITE.
5. ANY DISTURBED AREA THAT IS TO BE LEFT EXPOSED FOR MORE THAN THIRTY DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING AND FERTILIZATION IN ACCORDANCE WITH THE NEW JERSEY STANDARDS AND THEIR RATES SHOULD BE INCLUDED IN THE NARRATIVE. IF THE SEASON PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREAS WILL BE MULCHED WITH SALT HAY OR EQUIVALENT AND ANCHORED IN ACCORDANCE WITH THE NEW JERSEY STANDARDS (I.E. PEG AND TWINE, MULCH NETTING OR LIQUID MULCH BINDER).
6. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO PROVIDE CONFIRMATION OF LIME, FERTILIZER AND SEED APPLICATION AND RATES OF APPLICATION AT THE REQUEST OF THE GLOUCESTER SOIL CONSERVATION DISTRICT.
7. ALL CRITICAL AREAS SUBJECT TO EROSION WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH AT A RATE OF 2 TONS PER ACRE, ACCORDING TO THE NEW JERSEY STANDARDS IMMEDIATELY FOLLOWING ROUGH GRADING.
8. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORMWATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
9. ALL SEDIMENTATION STRUCTURES WILL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS AND AFTER EVERY STORM EVENT.
10. A CRUSHED STONE, TIRE CLEANING PAD WILL BE INSTALLED WHEREVER A CONSTRUCTION ACCESS EXISTS. THE STABILIZED PAD WILL BE INSTALLED ACCORDING TO THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS.
11. ALL DRIVEWAYS MUST BE STABILIZED WITH 2 ½"CRUSHED STONE OR SUBBASE PRIOR TO INDIVIDUAL LOT CONSTRUCTION.
12. PAVED AREAS MUST BE KEPT CLEAN AT ALL TIMES.
13. ALL CATCH BASIN INLETS WILL BE PROTECTED ACCORDING TO THE CERTIFIED PLAN.
14. ALL STORM DRAINAGE OUTLETS WILL BE STABILIZED, AS REQUIRED, BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.
15. ALL DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTER AREA. THE SEDIMENT FILTER SHOULD BE COMPOSED OF A SUITABLE SEDIMENT FILTER FABRIC. (SEE DETAIL). THE BASIN MUST BE DEWATERED TO NORMAL POOL WITHIN 10 DAYS OF THE DESIGN STORM.
16. NJSA 4:24-39, ET SEQ. REQUIRES THAT NO CERTIFICATE OF OCCUPANCY BE ISSUED BEFORE ALL PROVISIONS OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN HAVE BEEN COMPLIED WITH FOR PERMANENT MEASURES. ALL SITE WORK FOR THE PROJECT MUST BE COMPLETED PRIOR TO THE DISTRICT ISSUING A REPORT OF COMPLIANCE AS A PREREQUISITE TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY.
17. MULCHING IS REQUIRED ON ALL SEEDED AREAS TO INSURE AGAINST EROSION BEFORE GRASS IS ESTABLISHED TO PROMOTE EARLIER VEGETATION COVER.
18. OFFSITE SEDIMENT DISTURBANCE MAY REQUIRE ADDITIONAL CONTROL MEASURES TO BE DETERMINED BY THE EROSION CONTROL INSPECTOR.
19. A COPY OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN MUST BE MAINTAINED ON THE PROJECT SITE DURING CONSTRUCTION.
20. THE GLOUCESTER SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY LAND DISTURBANCE.
21. ANY CONVEYANCE OF THIS PROJECT PRIOR TO ITS COMPLETION WILL TRANSFER FULL RESPONSIBILITY FOR COMPLIANCE WITH THE CERTIFIED PLAN TO ANY SUBSEQUENT OWNERS.
22. IMMEDIATELY AFTER THE COMPLETION OF STRIPPING AND STOCKPILING OF TOPSOIL, THE STOCKPILE MUST BE STABILIZED ACCORDING TO THE STANDARD FOR TEMPORARY VEGETATIVE COVER. STABILIZE TOPSOIL STOCKPILE WITH STRAW MULCH FOR PROTECTION IF THE SEASON DOES NOT PERMIT THE APPLICATION AND ESTABLISHMENT OF TEMPORARY SEEDING. ALL SOIL STOCKPILES ARE NOT TO BE LOCATED WITHIN FIFTY (50) FEET OF A FLOODPLAIN, SLOPE, ROADWAY OR DRAINAGE FACILITY AND THE BASE MUST BE PROTECTED WITH A SEDIMENT BARRIER.
23. ANY CHANGES TO THE SITE PLAN WILL REQUIRE THE SUBMISSION OF A REVISED SOIL EROSION AND SEDIMENT CONTROL PLAN TO THE GLOUCESTER SOIL CONSERVATION DISTRICT. THE REVISED PLAN MUST BE IN ACCORDANCE WITH THE CURRENT NEW JERSEY STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL.
24. METHODS FOR THE MANAGEMENT OF HIGH ACID PRODUCING SOILS SHALL BE IN ACCORDANCE WITH THE STANDARDS. HIGH ACID PRODUCING SOILS ARE THOSE FOUND TO CONTAIN IRON SULFIDES OR HAVE A pH OF 4 OR LESS.
25. TEMPORARY AND PERMANENT SEEDING MEASURES MUST BE APPLIED ACCORDING TO THE NEW JERSEY STANDARDS, AND MULCHED WITH SALT HAY OR EQUIVALENT AND ANCHORED IN ACCORDANCE WITH THE NEW JERSEY STANDARDS (I.E. PEG AND TWINE, MULCH NETTING OR LIQUID MULCH BINDER).
26. MAXIMUM SIDE SLOPES OF ALL EXPOSED SURFACES SHALL NOT BE CONSTRUCTED STEEPER THAN 3:1 UNLESS OTHERWISE APPROVED BY THE DISTRICT.
27. DUST IS TO BE CONTROLLED BY AN APPROVED METHOD ACCORDING TO THE NEW JERSEY STANDARDS AND MAY INCLUDE WATERING WITH A SOLUTION OF CALCIUM CHLORIDE AND WATER.
28. ADJOINING PROPERTIES SHALL BE PROTECTED FROM EXCAVATION AND FILLING OPERATIONS ON THE PROPOSED SITE.
29. USE STAGED CONSTRUCTION METHODS TO MINIMIZE EXPOSED SURFACES, WHERE APPLICABLE.
30. ALL VEGETATIVE MATERIAL SHALL BE SELECTED IN ACCORDANCE WITH AMERICAN STANDARDS FOR NURSERY STOCK OF THE AMERICAN ASSOCIATION OF THE NURSERYMAN AND IN ACCORDANCE WITH THE NEW JERSEY STANDARDS.
31. NATURAL VEGETATION AND SPECIES SHALL BE RETAINED WHERE SPECIFIED ON THE LANDSCAPING PLAN.
32. THE SOIL EROSION INSPECTOR MAY REQUIRE ADDITIONAL SOIL EROSION MEASURES TO BE INSTALLED, AS DIRECTED BY THE DISTRICT INSPECTOR

METHODS AND MATERIALS FOR SEEDBED PREPARATION

APPLY GROUND LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS OFFERED BY RUTGERS CO-OPERATIVE EXTENSION. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL RUTGERS COOPERATIVE EXTENSION OFFICES. FERTILIZERS SHALL BE APPLIED AT A RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-20-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE. APPLY LIMESTONE IN ACCORDANCE WITH THE TABLE BELOW AND/OR THE RESULTS OF SOIL TESTING. CALCIUM CARBONATE IS THE EQUIVALENT AND STANDARD FOR MEASURING THE ABILITY OF LIMING MATERIALS TO NEUTRALIZE SOIL ACIDITY AND SUPPLY CALCIUM AND MAGNESIUM TO GRASSES AND LEGUMES. THE TABLE IS A GENERAL GUIDELINE FOR LIMESTONE APPLICATION RATES.

LIMESTONE APPLICATION RATE BY SOIL TEXTURE		
SOIL TEXTURE	TON/ACRE	LBS/1000 SQ. FT.
CLAY, CLAY LOAM, AND HIGH ORGANIC SOIL	3	135
SANDY LOAM, LOAM, SILT LOAM	2	90
LOAMY SAND, SAND	1	45

WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRINGTOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLE UNIFORM SEEDBED IS PREPARED.

IMMEDIATELY PRIOR TO SEEDING, THE SURFACE SHOULD BE SCARIFIED 6" TO 12" WHERE THERE HAS BEEN SOIL COMPACTION. THIS PRACTICE IS PERMISSIBLE ONLY WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.)

HIGH ACID PRODUCING SOIL:
SOILS HAVING A PH OF 4 OF LESS OR CONTAINING IRON SULFIDE SHALL BE COVERED WITH A MINIMUM OF 12 INCHES OF SOIL HAVING PH OF 5 OR MORE BEFORE INITIATING SEEDBED PREPARATION. SEE ABOVE.

DUST CONTROL NOTES:

THE FOLLOWING METHODS SHOULD BE CONSIDERED FOR CONTROLLING DUST:

MULCHES-SEE STANDARD FOR STABILIZATION WITH MULCHES ONLY (PG.5-1) IN STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY, JULY 1999 OR LATEST EDITION.

VEGETATIVE COVER-SEE STANDARD FOR TEMPORARY VEGETATIVE COVER (PG.7-1), PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION (PG.4-1), AND PERMANENT STABILIZATION WITH SOD (PG.6-1) IN STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY, JULY 1999 OR LATEST EDITION.

SPRAY-ON ADHESIVES- ON MINERAL SOILS (NOT AFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS.

TABLE 16-1: DUST CONTROL MATERIALS

MATERIAL	WATER DILUTION	TYPE OF NOZZLE	APPLY GALLONS/ACRE
ANIONIC ASPHALT EMULSION	7:1	COARSE SPRAY	1200
LATEX EMULSION	12.5:1	FINE SPRAY	235
RESIN WATER	4:1	FINE SPRAY	300
POLYACRYLAMIDE (PAM)-SPRAY ON BASINS POLYACRYLAMIDE (PAM)-DRY SPRAY	APPLY ACCORDING TO MANUFACTURER'S INSTRUCTIONS. MAY ALSO BE USED AS AN ADDITIVE TO SEDIMENT TO FLOCCULATE AND PRECIPITATE SUSPENDED COLLOIDS. SEE SEDIMENT BASIN STANDARD (PG. 26-1)		
ACIDULATED SOY BEAN SOAP STICK	NONE	COARSE SPRAY	1200

TILLAGE-TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS A TEMPORARY EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12 INCHES APART, AND SPRING-TOOTHED HARROWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.

SPRINKLING-SITE IS SPRINKLED UNTIL THE SURFACE IS WET.

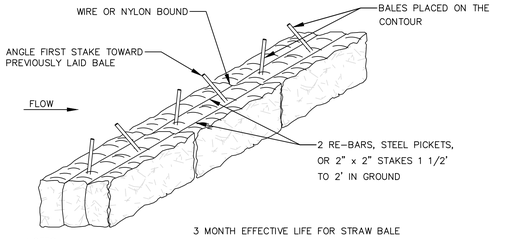
BARRIERS-SOLID BOARD FENCES, SNOW FENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY, AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND BLOWING.

CALCIUM CHLORIDE-SHALL BE IN THE FORM OF LOOSE, DRY GRANULATES OF FLAKES FINE ENOUGH TO FEED THROUGH COMMONLY USED SPREADERS AT A RATE THAT WILL KEEP SURFACE MOIST BUT NOT CAUSE POLLUTION OR PLANT DAMAGE. IF USED ON STEEPER SLOPES, THEN USE OTHER PRACTICES TO PREVENT WASHING INTO STREAMS, OR ACCUMULATION AROUND PLANTS.

STONE-COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.

CONSTRUCTION SEQUENCE NOTES:

1. CONTACT THE GLOUCESTER COUNTY CONSERVATION DISTRICT TO SCHEDULE AN ON-SITE, PRE-CONSTRUCTION MEETING AT LEAST FIVE (5) DAYS PRIOR TO THE START OF EARTH DISTURBANCE. THE CONSERVATION DISTRICT SHALL BE NOTIFIED AT LEAST 72 HOURS BEFORE ANY DISTURBANCE.
2. INSTALL STABILIZED CONSTRUCTION ENTRANCE AS SHOWN AND IN ACCORDANCE WITH THE CONSTRUCTION ENTRANCE DETAIL SHOWN ON THE PLANS. (1 DAY)
3. INSTALL COMPOST FILTER SOCK DOWNHILL FROM EARTH MOVING ACTIVITIES AS SHOWN. (3 DAYS)
8. INSTALL INLET FILTER PROTECTION. (1 DAY)
9. REMOVE TREES, FENCES, SIGNS, POLES, ETC. AND COMPLETE MISCELLANEOUS SITE DEMOLITION AS SHOWN ON THE PLANS. (10 DAYS)
10. REMOVE ASPHALT, CURB, AND CONCRETE SIDEWALK AS SHOWN. (5 DAYS)
11. REFER TO THE GEOTECHNICAL REPORT IF APLICABLE FOR PREPARATION OF ALL SOIL CONDITIONS PERTAINING TO BUILDING FOUNDATIONS AND PARKING AREAS.
12. CLEAR AND GRUB VEGETATION ON-SITE. THE CONTRACTOR SHALL TAKE CAREFUL NOTE TO IDENTIFY TREES, LIGHT, SIGNS, AND OTHER SITE AMENITIES THAT ARE INTENDED TO BE RELOCATED AFTER SITE WORK. SITE AMENITIES TO BE RELOCATED SHALL NOT BE DEMOLISHED, AND SHALL BE PROPERLY STORED AND RELOCATED AT THE DIRECTION OF THE OWNER OR OWNER'S REPESENTATIVE. (5 DAYS)
13. STRIP AND STOCKPILE TOPSOIL. (5 DAYS)
14. ROUGH GRADE SITE AS SHOWN INCLUDING PREPARATION OF STORMWATER MANAGEMENT FACILITIES. (21 DAYS)
17. STUB OUT NEW UTILITY SERVICE CONNECTIONS/SERVICE LINES AND CONNECT TO APPLICABLE UTILITY LINE/MAIN. (14 DAYS)
18. CONSTRUCT OUTDOOR STAIRS, RAMPS, AND CONCRETE PADS. (21 DAYS)
19. INSTALL SITE LIGHTS. (14 DAYS)
26. INSTALL CURB, SIDEWALK, AND ADA RAMPS. (14 DAYS)
27. CONSTRUCT ANY REMAINING CURB, STORM SEWER SYSTEM, AND STORMWATER MANAGEMENT FACILITIES. (45 DAYS)
28. TOPSOIL AND SEED DISTURBED GRASSED AREAS TO REMAIN AND PROVIDE TEMPORARY STABILIZATION AS NEEDED. (2 DAYS)
29. INSTALL BASE PAVEMENT. (7 DAYS)
30. LANDSCAPE AND STABILIZE SITE. (7 DAYS)
31. SWEEP PAVED AREAS TO PREVENT TRACKING OF SOIL OFFSITE AS OFTEN AS NEEDED.
32. INSTALL SURFACE COURSE AND STRIPING AS SHOWN ON PLANS. REFER TO DRAWING GRADING PLANS FOR FINAL GRADE ELEVATIONS. (7 DAYS)
33. REMOVE ALL SOIL EROSION MEASURES UPON SUFFICIENT STABILIZATION OF SITE. (1 DAY)



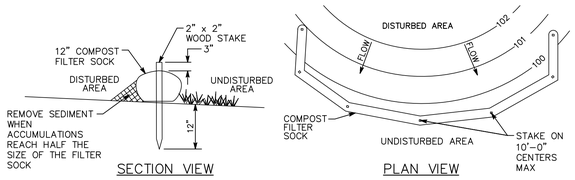
3 MONTH EFFECTIVE LIFE FOR STRAW BALE

NOTES: ANCHORING DETAIL

1. BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4", AND PLACED SO SO THE BINDINGS ARE HORIZONTAL
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
4. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

STRAW BALE DETAIL

N.T.S.

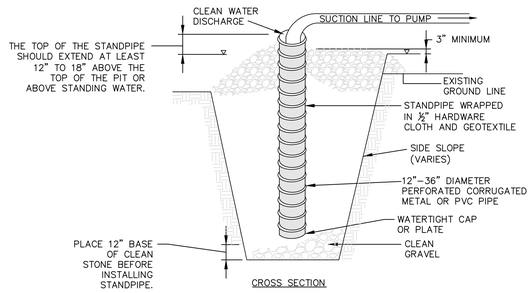


SECTION VIEW PLAN VIEW

1. REMOVE DEPOSITS WHEN SEDIMENT ACCUMULATION IS ONE HALF THE HEIGHT OF THE EXPOSED COMPOST FILTER SOCK.
2. PLACE COMPOST FILTER SOCK ON LEVEL GRADE. EXTEND BOTH ENDS OF THE COMPOST FILTER SOCK AT LEAST 8'-0" UPSLOPE AT 45 DEGREES TO THE MAIN ALIGNMENT.
3. REPLACE BIODEGRADABLE FILTER SOCK AFTER 6 MONTHS; PHOTODEGRADABLE AFTER 12 MONTHS.
4. ALL DIMENSIONS ARE IN U.S. CUSTOMARY UNITS.
5. CONTRACTOR SHALL PROVIDE SAND BAGS, CONCRETE BLOCKS, OR OTHER SUITABLE MATERIAL TO STABILIZE COMPOST FILTER SOCK ON PAVED AREAS AND PREVENT IT FROM MOVING OR SHIFTING.
6. STABILIZING DEVICES SHALL BE SPACED 10 FEET ON CENTER OR AS RECOMMENDED BY THE MANUFACTURER, WHICHEVER IS LESS.

COMPOST FILTER SOCK, 12" DIAMETER

N.T.S.



CROSS SECTION

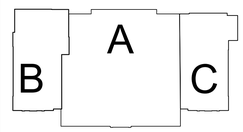
CONSTRUCTION SPECIFICATIONS

1. PIT DIMENSIONS ARE VARIABLE, WITH THE MINIMUM DIAMETER BEING 2 TIMES THE STANDPIPE DIAMETER.
2. THE STANDPIPE SHOULD BE CONSTRUCTED BY PERFORATING A 12" TO 24" DIAMETER CORRUGATED OR PVC PIPE. THEN WRAPPING WITH ½" HARDWARE CLOTH AND GEOTEXTILE FABRIC. THE PERFORATIONS SHALL BE ½" X6" SLITS OR 1" DIAMETER HOLES.
3. A BASE OF FILTER MATERIAL CONSISTING OF CLEAN GRAVEL OR ASTM C 33 STONE SHOULD BE PLACED IN THE PIT TO A DEPTH OF 12" AFTER INSTALLING THE STANDPIPE, THE PIT SURROUNDING THE STANDPIPE SHOULD THEN BE BACKFILLED WITH THE SAME FILTER MATERIAL.
4. THE STANDPIPE SHOULD EXTEND 12" TO 18" ABOVE THE LIP OF PIT OR THE RISER CREST ELEVATION (BASIN DEWATERING ONLY) AND THE FILTER MATERIAL SHOULD EXTEND 3" MINIMUM ABOVE THE ANTICIPATED STANDING WATER ELEVATION.

SUMP PIT DEWATERING DETAIL

N.T.S.

KEY PLAN: ANNEX



No.	Date	Description
	12/08/25	OUT TO BID
	12/03/25	DCA Submission

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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024 KSE #2590
Date: 12.03.2025
Drawn By: SS
Checked By:

Sheet Name:
EROSION CONTROL NOTES & DETAILS 1

Sheet No:
C-801
Sheet 9 of 10

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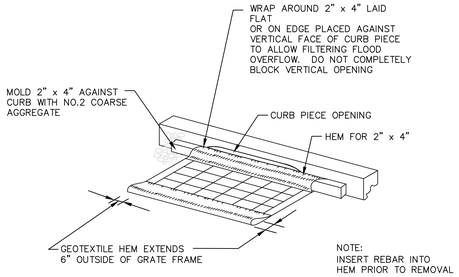
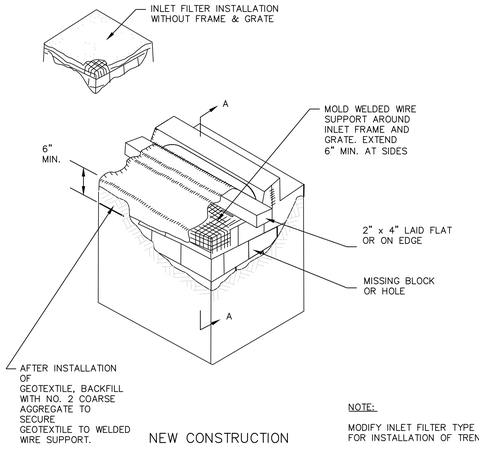
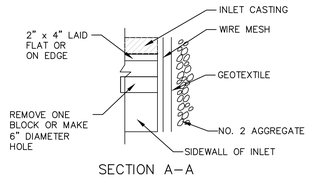


NOTE:
INSERT REBAR INTO HEM PRIOR TO REMOVAL

EXISTING INLET



NEW CONSTRUCTION



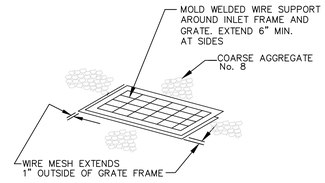
SECTION A–A

NOTE:

MODIFY INLET FILTER TYPE 1 DETAIL FOR INSTALLATION OF TRENCH DRAINS.

INLET FILTERS, TYPE 1

N.T.S.



EXISTING/PROPOSED INLET

INLET FILTERS TYPE B

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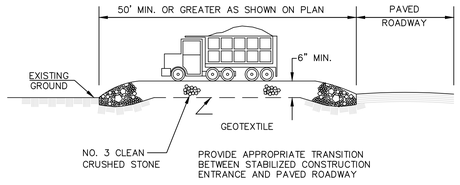
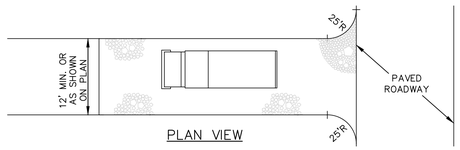


PROFILE



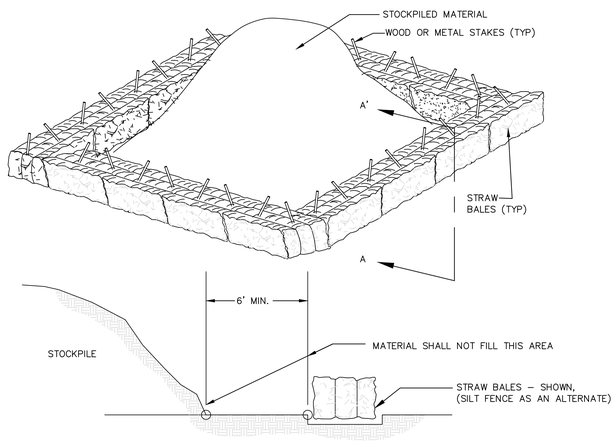
PLAN VIEW

NOTES

1. STONE SIZE – USE A MATRIX OF NO. 3 STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT AS APPROVED BY RE.
2. LENGTH – NOT LESS THAN 50 FEET.
3. THICKNESS – NOT LESS THAN SIX (6) INCHES.
4. WIDTH – TWELVE FEET MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY–FOUR FEET AT SINGLE ENTRANCES TO SITE.
5. GEOTEXTILE – SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE.
6. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PAVED ROADWAYS. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PAVED ROADWAYS MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE

N.T.S.



CROSS SECTION A–A'

NOTE: INLETS TO BE MAINTAINED TO PREVENT SILT BUILD UP AT STRAW BALES

TEMPORARY STOCKPILE AREA DETAIL

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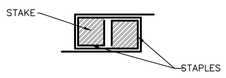
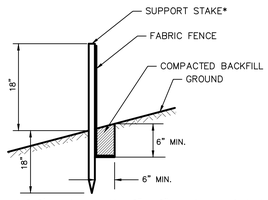


JOINING FENCE SECTIONS



* Stakes spaced @ 8' maximum. Use 2" x 2" wood or equivalent steel stakes.

Filter Fabric Fence must be placed at level existing grade. Both ends of the barrier must be extended at least 8 feet up slope at 45 degrees to the main barrier alignment.

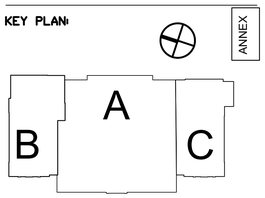
Sediment must be removed when accumulations reach 1/2 the above ground height of the fence.

Any section of Filter Fabric Fence which has been undermined or topped must be immediately replaced with a Rock Filter Outlet.

FILTER FABRIC FENCE

N.T.S.

KEY PLAN:



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Drawing Information:
Project No: 25.024 KSE #2590
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Drawn By:
Checked By:

Sheet Name:
EROSION CONTROL NOTES & DETAILS 2

Sheet No:
C-802
Sheet 10 of 10

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SYMBOL LEGEND

- DOMESTIC COLD WATER
- DOMESTIC HOT WATER
- DOMESTIC HOT WATER RECIRCULATION
- G — NATURAL GAS PIPING
- P — PROPANE LINE
- RWC — RAIN WATER CONDUCTOR
- TW — TEMPERED WATER
- SANITARY LINE
- CD — CONDENSATE DRAIN
- V — VENT LINE
- BFP — BACK FLOW PREVENTER
- M — OS & Y VALVE (M DENOTES MONITORED VALVE)
- GLOBE VALVE
- BALL VALVE
- M — MONITORED BALL VALVE
- BUTTERFLY VALVE
- M — MONITORED BUTTERFLY VALVE
- CO — CLEAN OUT
- CO — CLEAN OUT
- FS — FLOW SWITCH
- GAS COCK
- SA — SHOCK ABSORBER
- PRESSURE REDUCING VALVE
- HB — HOSE BIBB
- WH — WALL HYDRANT
- CHECK VALVE
- RELIEF VALVE
- GAUGE WITH COCK
- CAPPED LINE
- DRAIN VALVE WITH HOSE THREAD
- CIRCUIT SETTER
- SELF CONTAINED TEMPERING VALVE
- EXISTING WORK TO REMAIN
- WORK TO BE REMOVED
- NEW WORK
- DENOTES CONNECT TO EXISTING
- DENOTES LIMIT OF DEMOLITION
- RECIRCULATION PUMP
- MIXING VALVE

GENERAL NOTES

1. THE FOLLOWING NOTES APPLY TO ALL PLUMBING DRAWINGS.
2. ALL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL STANDARD PLUMBING CODE 2021 AND ALL OTHER APPLICABLE CODES AND STANDARDS.
3. ALL DRAWINGS ARE DIAGRAMMATIC. PLUMBING CONTRACTOR SHALL CAREFULLY EXAMINE EXISTING CONDITIONS PRIOR TO STARTING WORK.
4. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS, SIZES, CLEARANCES AND LOCATIONS PRIOR TO THE START OF CONSTRUCTION. WHEN CONFLICTS ARISE, MAKE ANY NECESSARY CHANGES TO ROUTING OF ANY PIPING AT NO ADDITIONAL COST.
5. ALL FLOOR MOUNTED WATER HEATERS SHALL BE INSTALLED ON 4" HIGH CONCRETE HOUSEKEEPING PADS PROVIDED BY THE PLUMBING CONTRACTOR.
6. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
7. SCHEDULES DO NOT REPRESENT EQUIPMENT QUANTITIES. REFER TO THE PLANS FOR ACTUAL QUANTITIES.
8. PLUMBING CONTRACTOR SHALL PROVIDE FIREPROOF PIPE SLEEVES AT ALL NEW PIPING PENETRATIONS THRU FIRE RATED WALLS AND FLOORS.
9. MANUFACTURERS AND MODEL NUMBERS INDICATED ON THE PLANS, SCHEDULES AND SKETCHES ARE PROVIDED AS A BASIS OF DESIGN ONLY. BIDDERS SHALL REFER TO THE SPECIFICATIONS FOR A LISTING OF MULTIPLE ACCEPTABLE MANUFACTURERS FOR EACH OF THESE ITEMS. SIMILAR PRODUCTS FROM ANY OF THESE MANUFACTURERS MAY BE FURNISHED PROVIDED THEY MEET THE INTENT OF THE SPECIFICATIONS. ANY CHANGES TO THE DESIGN REQUIRED AS A RESULT OF A SUBSTITUTION ARE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR.

ALTERNATES:

ALTERNATE #1: REMOVE SITE LIGHTING FOR EXISTING PARKING LOT ALONG FISH POND ROAD.

ALTERNATE #2: REMOVE PARKING LOT ASPHALT SEAL COAT OVER EXISTING PAVEMENT.

ALTERNATE #3: REMOVE SECOND & THIRD FLOOR GANG TOILET ROOMS.

ALTERNATE #4: REMOVE FIRST FLOOR GANG TOILET ROOMS.

GENERAL DEMOLITION NOTES

1. ALL WORK UNDER THIS SECTION SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
2. DEMOLITION/RELOCATIONS: EACH TRADE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND RELOCATIONS OF SERVICES, EQUIPMENT AND MATERIAL RELATING TO THEIR RESPECTIVE TRADE.
3. PRIOR TO DEMOLITION CONTRACTOR SHALL REVIEW WITH OWNER ALL MATERIALS TO BE REMOVED. SHOULD THE OWNER OPT TO KEEP ANY MATERIALS, THE CONTRACTOR SHALL REMOVE AND DELIVER THE PARTS TO THE OWNER ON THE SITE WHERE SO DIRECTED. OTHERWISE, ALL DEMOLISHED OR REMOVED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR, SHALL BE REMOVED FROM THE SITE, AND BE DISPOSED OF IN A LEGAL MANNER.
4. DEMOLITION SHALL INCLUDE REMOVAL OF ALL PARTS AND PIECES IN THEIR ENTIRETY BACK TO THE POINTS INDICATED OR IF NOT INDICATED BACK TO THEIR POINT OF SOURCE. WHERE CONDITIONS PROHIBIT TOTAL REMOVAL OF THE WORK, THE REMAINING PORTION SHALL BE CUT FLUSH WITH THE SURROUNDING SURFACE SHALL BE REFINISHED IN AN APPROVED MANNER.
5. MAINTAIN EXISTING UTILITIES INDICATED OR WHERE REQUIRED TO REMAIN, KEEP IN SERVICE, AND PROTECT AGAINST DAMAGE DURING DEMOLITION OPERATIONS. DO NOT INTERRUPT EXISTING UTILITIES SERVING OCCUPIED OR USED FACILITIES, EXCEPT WHEN SCHEDULED WITH THE OWNER.
6. DO NOT REMOVE EXISTING STRUCTURAL WORK. DO NOT REMOVE OPERATIONAL ELEMENTS AND SAFETY-RELATED COMPONENTS IN A MANNER RESULTING IN A REDUCTION OF CAPACITIES TO PERFORM IN THE MANNER INTENDED OR RESULTING IN DECREASED OPERATIONAL LIFE, INCREASED MAINTENANCE, OR DECREASED SAFETY.
7. REMOVALS, DISCONNECTIONS, AND RELOCATIONS SHALL BE PERFORMED BY WORKMEN SKILLED IN THE TRADE INVOLVED AND SHALL BE EMPLOYED BY A CONTRACTOR LICENSED IN THE TRADE INVOLVED. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ACCEPTED TRADE PRACTICES.
8. PROVIDE ADEQUATE TEMPORARY SUPPORT FOR WORK TO REMAIN TO PREVENT FAILURE. DO NOT ENDANGER OTHER WORK.
9. PROTECTION: PROVIDE ADEQUATE PROTECTION WHERE REQUIRED FOR THE PRESENT BUILDING AND ITS CONTENTS. TEMPORARY DUSTPROOF BARRIERS AND BARRICADES SHALL BE ERECTED WHERE REQUIRED FOR PROTECTION OF PERSONNEL, PROTECTION FROM DUST AND DIRT, FOR SECURITY, FIRE AND WEATHER PROTECTIVE REASONS. CONTRACTOR SHALL TAKE EVERY PRECAUTION AGAINST FIRE BY EMPLOYING FIRE DEPARTMENT TYPE HOSES AND PORTABLE FIRE EXTINGUISHERS AS REQUIRED BY OSHA AND/OR THE OWNER'S INSURANCE UNDERWRITER.
10. ALL EXISTING EQUIPMENT REQUIRED TO BE REUSED SHALL BE CLEANED, RECONDITIONED, CALIBRATED AND ADJUSTED. IN ALL INSTANCES WHERE CONTRACTOR FINDS THAT EXISTING EQUIPMENT IS DEFECTIVE TO THE POINT WHERE IT CANNOT BE PROPERLY RESTORED AND WILL NOT OPERATE PROPERLY, THEY SHALL REPORT THE SPECIFIC INSTRUMENTS OR EQUIPMENT TO THE ENGINEER FOR DIRECTIONS.
11. EXTREME CARE SHALL BE EXERCISED FOR ALL EXISTING ITEMS THAT ARE TO REMAIN IN SERVICE UNTIL NEW ITEMS ARE INSTALLED FOR THE SAME SERVICE. ALL SHUTDOWNS OF ANY SYSTEM SHALL BE COORDINATED WITH THE OWNER.
12. ALL DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR SHALL CAREFULLY EXAMINE EXISTING CONDITIONS PRIOR TO STARTING WORK

LIST OF DRAWINGS

P-001	PLUMBING COVER SHEET
PD-100A	PLUMB DEMO BASEMENT
PD-100B	PLUMB DEMO BASEMENT
PD-101A	PLUMB DEMO 1ST FLR
PD-101B	PLUMB DEMO 1ST FLR
PD-102A	PLUMB DEMO 2ND FLR
PD-102B	PLUMB DEMO 2ND FLR
PD-103	PLUMB DEMO 3RD FLR
PD-104A	PLUMB DEMO ROOF PLAN
PD-104B	PLUMB DEMO ROOF PLAN
P-100A	PLUMB BASEMENT PLAN
P-100B	PLUMB BASEMENT PLAN
P-101A	PLUMB 1ST FLR
P-101B	PLUMB 1ST FLR
P-102A	PLUMB 2ND FLR
P-102B	PLUMB 2ND FLR
P-103	PLUMB 3RD FLR
P-104A	PLUMB ROOF PLAN
P-104B	PLUMB ROOF PLAN
P-201	1ST FLR ENLARGED PLANS
P-202	1ST FLR ENLARGED PLANS
P-203	1ST FLR ENLARGED PLANS
P-204	2ND FLR ENLARGED PLANS
P-205	3RD FLR ENLARGED PLANS
P-401	SCHEDULES AND DETAILS
P-402	GAS RISER DIAGRAM
P-403	SANITARY RISER DIAGRAM
P-404	DOMESTIC RISER DIAGRAM

ABBREVIATIONS

AB	ABANDONED	GC	GENERAL CONTRACTOR	NIC	NOT IN CONTRACT	UR	URINAL
AD	AREA DRAIN	G	GAS	OFD	OVERFLOW DRAIN	VTR	VENT THRU ROOF
AFF	ABOVE FINISHED FLOOR	HB	HOSE BIBB	OS&Y	OUTSIDE SCREW & YOKE GATE VALVE	V	VENT
BFP	BACK FLOW PREVENTER	HW	DOMESTIC HOT WATER	PC	PLUMBING CONTRACTOR	W	WASTE
CA	COMPRESSED AIR	HWH	HOT WATER HEATER	PRV	PRESSURE REDUCING VALVE	WC	WATER CLOSET
CO	CLEAN OUT	HWR	DOMESTIC HOT WATER RECIRCULATION	R	REMOVE	WCO	WALL CLEANOUT
CW	DOMESTIC COLD WATER	IW	INDIRECT WASTE	RP-	RECIRCULATION PUMP	WH	WALL HYDRANT
DF	DRINKING FOUNTAIN	LAV	LAVATORY	RWC	RAIN WATER CONDUCTOR		
DN	DOWN	MAX	MAXIMUM	SA	SHOCK ABSORBER		
DW	DISHWASHER	MIN	MINIMUM	SAN	SANITARY		
(E)	EXISTING	MC	MECHANICAL CONTRACTOR	SS	SERVICE SINK		
EC	ELECTRICAL CONTRACTOR	MH	MANHOLE	SH	SHOWER		
ET	EXPANSION TANK	MR	MOP RECEPTOR	SK	SINK		
EWC	ELECTRIC WATER COOLER	N	NEW WORK	ST	STORM		
FAI	FRESH AIR INLET	NC	NORMALLY CLOSED	SW	SAFE WASTE		
FD-A	FLOOR DRAIN (A - INDICATES TYPE)	NO	NORMALLY OPEN	TW	TEMPERED WATER		
FU	FIXTURE UNIT	NTS	NOT TO SCALE				

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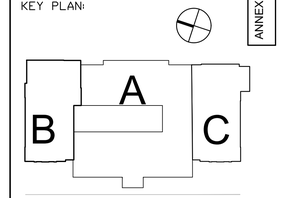
KEY PLAN:



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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JBM
Checked By:

Sheet Name:
PLUMBING COVER SHEET

Sheet No:
P-001
Sheet 0 of 000

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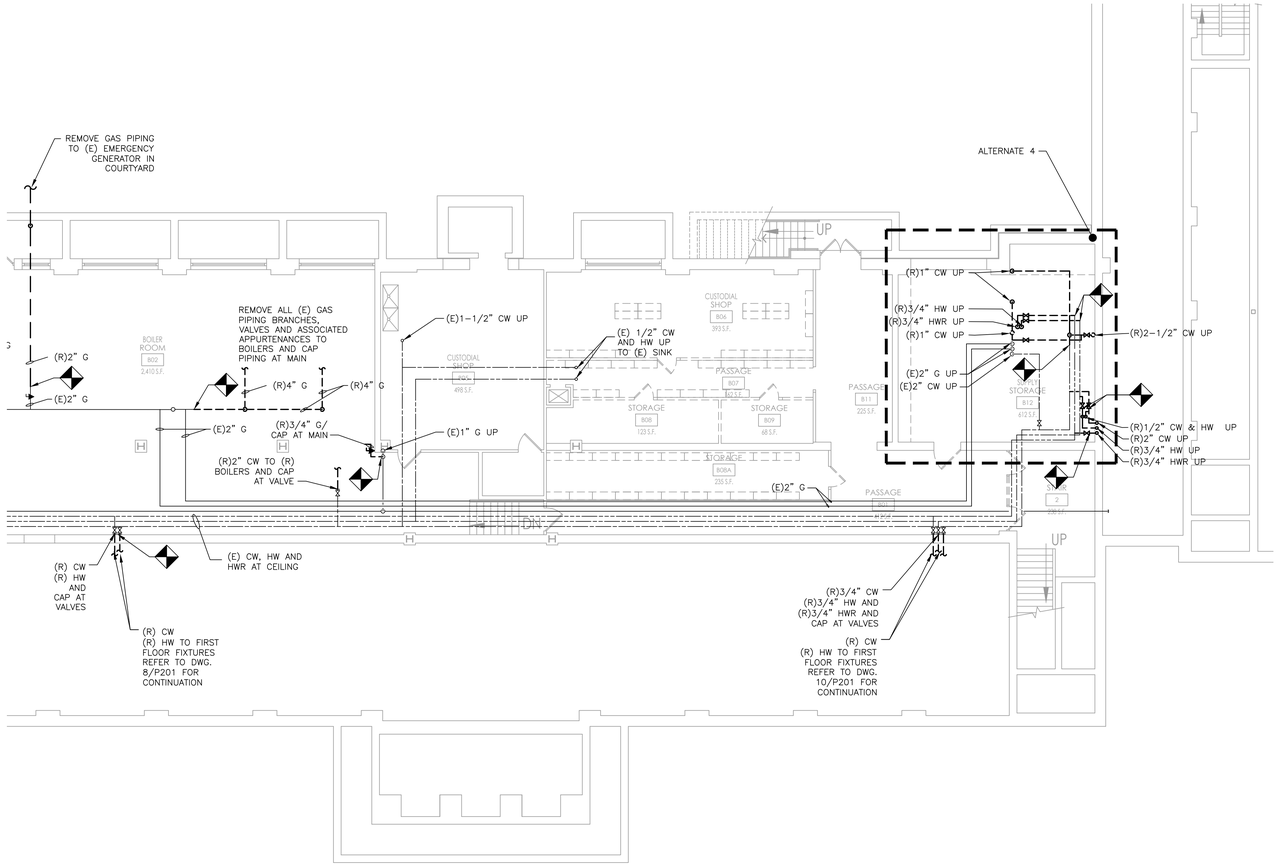
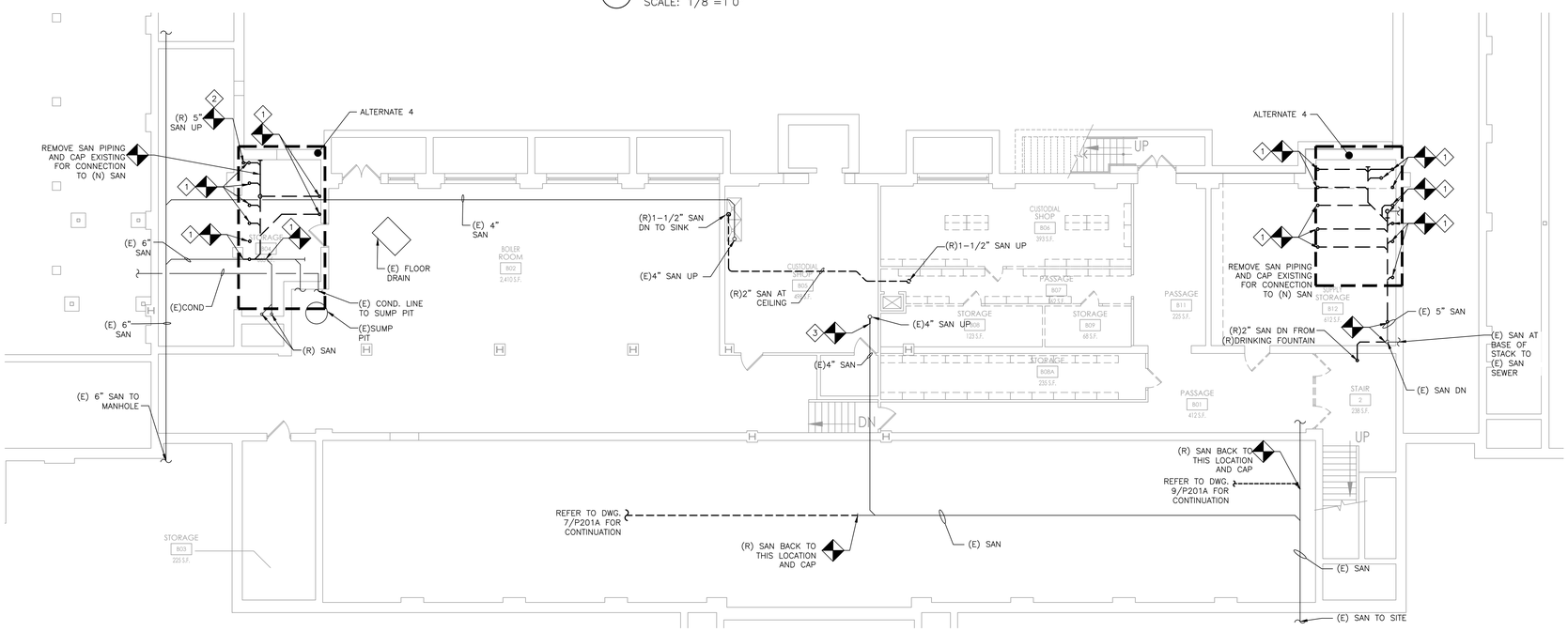


1 PLUMBING DEMOLITION BASEMENT FLOOR PLAN – DOMESTIC WATER – PART A
SCALE: 1/8"=1'0"



2 PLUMBING DEMOLITION BASEMENT FLOOR PLAN – WASTE/VENT
SCALE: 1/8"=1'0"

DEMOLITION PLAN KEY NOTES:

1. REMOVE EXISTING SANITARY PIPING AT CEILING AND SANITARY PIPING UP TO FIXTURES IN FLOOR ABOVE.
2. REMOVE EXISTING SANITARY STACK UP TO FIRST FLOOR CEILING. PROVIDE TEMPORARY CAP EXISTING FOR CONNECTION TO (N) SAN.
3. REMOVE SANITARY PIPING FROM SANITARY RISER. RISER PIPING WILL BE RECONNECTED TO.

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NEW JERSEY PROFESSIONAL ENGINEER
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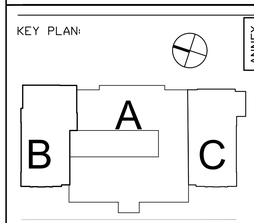
KEY PLAN:



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Checked By:

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PLUMB DEMO BASEMENT

Sheet No:
PD-100A
Sheet 0 of 000

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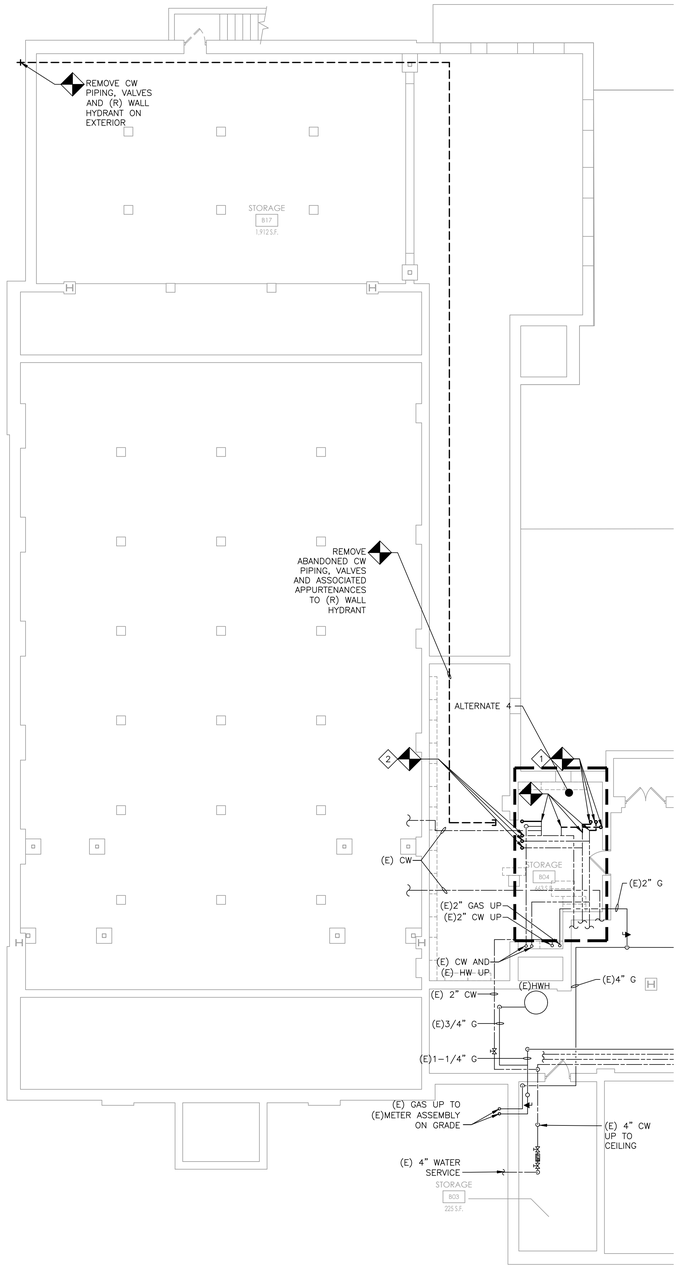
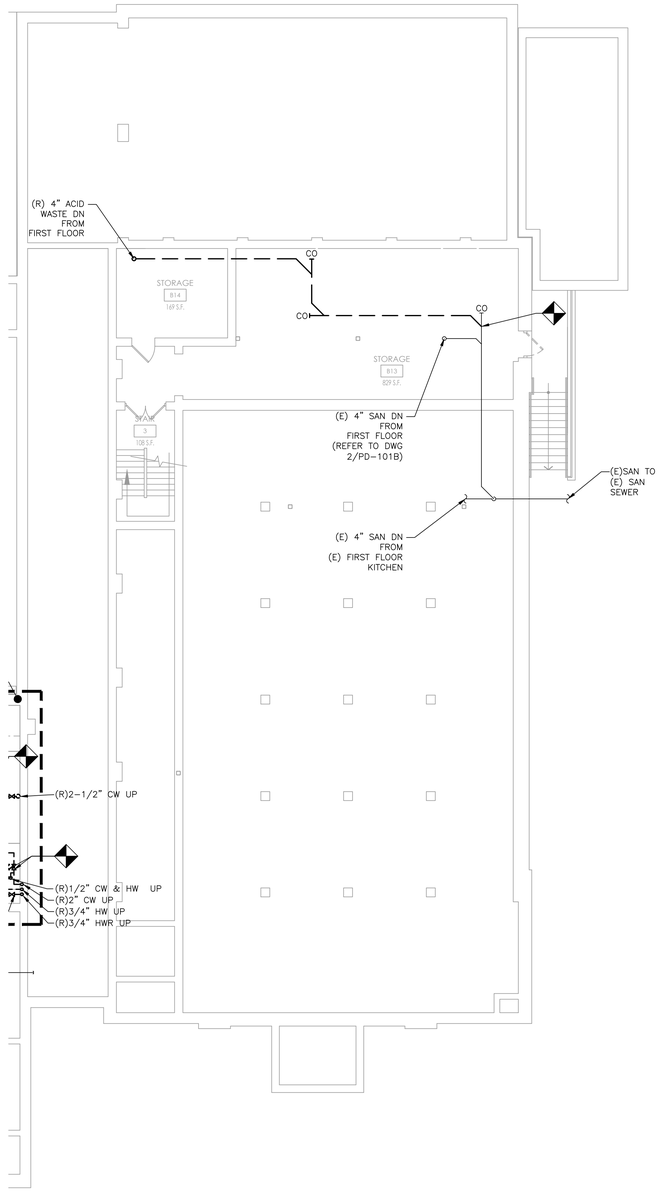


DEMOLITION PLAN KEY NOTES:

1. REMOVE CW, HW, HWR PIPING RISERS SERVICING GANG TOILET ROOM LAVATORIES, REMOVE VALVES AND ASSOCIATED APPURTENANCES. CAP PIPING ABOVE FIRST FLOOR CEILING AND TEMPORARILY CAP FOR CONNECTION TO (N) PIPING TO BE INSTALLED IN FIRST FLOOR TOILET ROOM.
2. REMOVE (E) CW, HW, HWR PIPING RISERS SERVICING GANG TOILET ROOM, VALVES AND ASSOCIATED APPURTENANCES AND CAP PIPING ABOVE FIRST FLOOR CEILING



1 PLUMBING DEMOLITION BASEMENT FLOOR PLAN – PART B
SCALE: 1/8"=1'0"

2 PLUMBING DEMOLITION FLOOR PLAN – PART C
SCALE: 1/8"=1'0"

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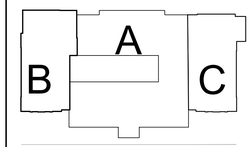

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Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JBM
Checked By:

Sheet Name:
PLUMB DEMO BASEMENT

Sheet No:
PD-100B
Sheet 0 of 000

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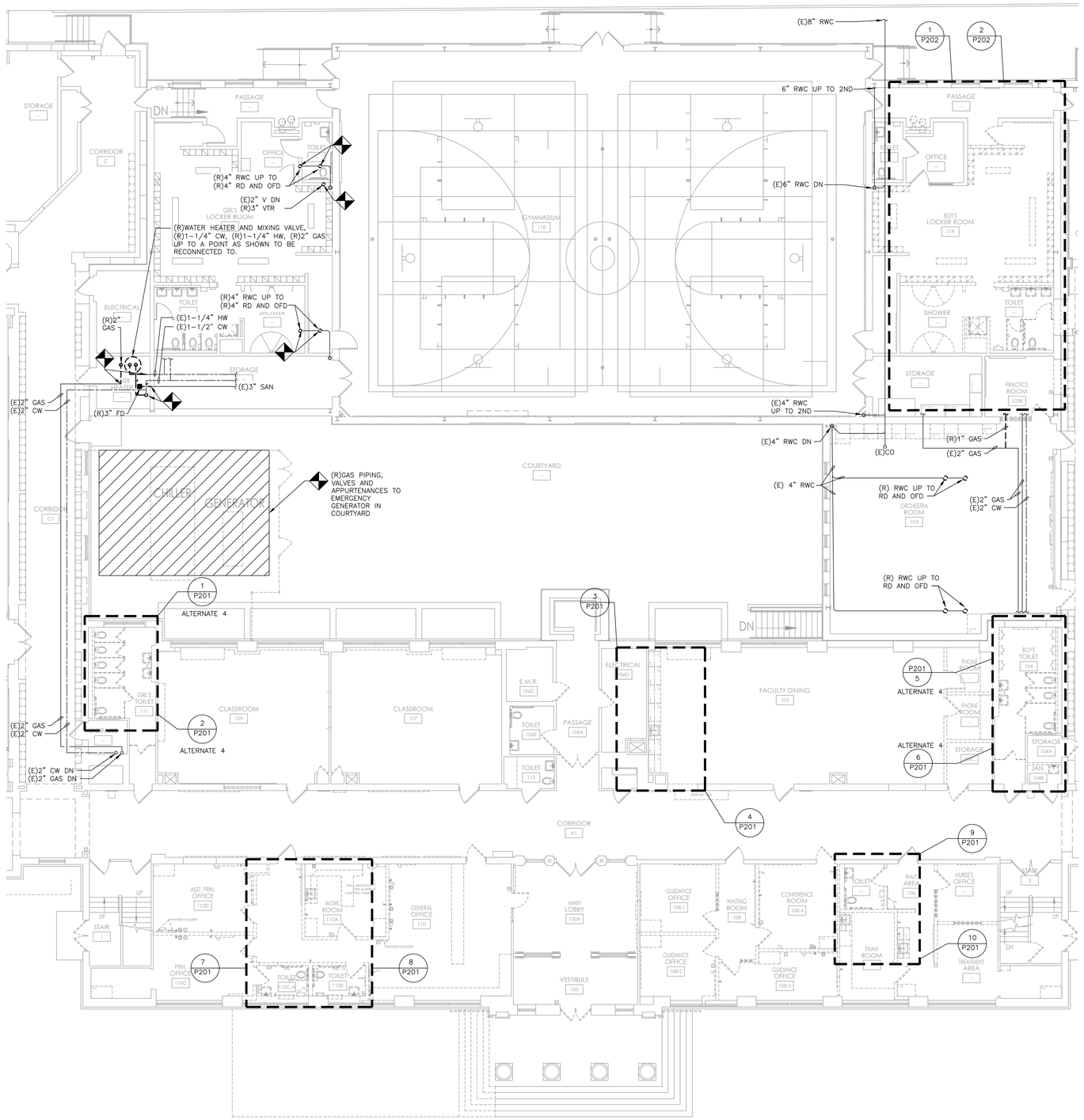

DEMOLITION LEGEND

REMOVE PIPING, FAUCETS, VALVES, AND APPURTENANCES RELATED TO THE PLUMBING SYSTEM SHOWN IN THIS AREA

DEMOLITION PLAN KEY NOTES:

1. REMOVE PLUMBING FIXTURES INCLUDING PIPING FROM FIXTURE TO WALL. PIPING TO BE REMOVED IN WALL AND/OR FLOOR FOR ANY UNUSED CONNECTIONS.
2. REMOVE PLUMBING FIXTURES INCLUDING PIPING FROM FIXTURE TO WALL. REPLACE IN-KIND.

1 PLUMBING DEMOLITION FIRST FLOOR PLAN – PART A
SCALE: 1/8"=1'0"

M/E/P Engineer:

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Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JBM
Checked By:

Sheet Name:
PLUMB DEMO 1ST FLOOR

Sheet No:
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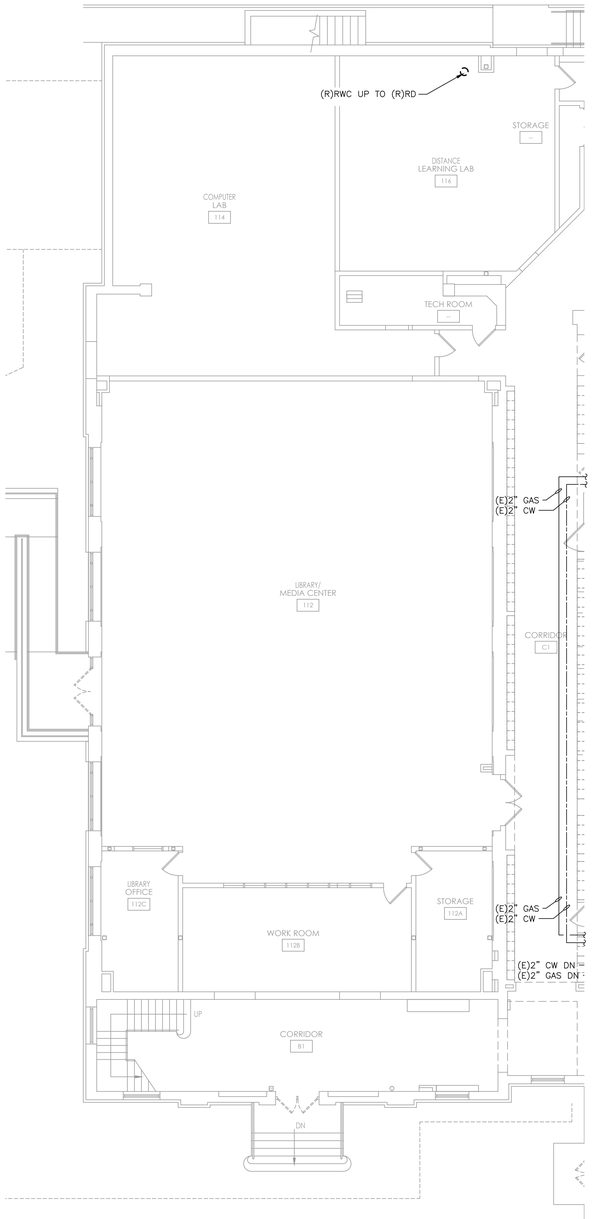
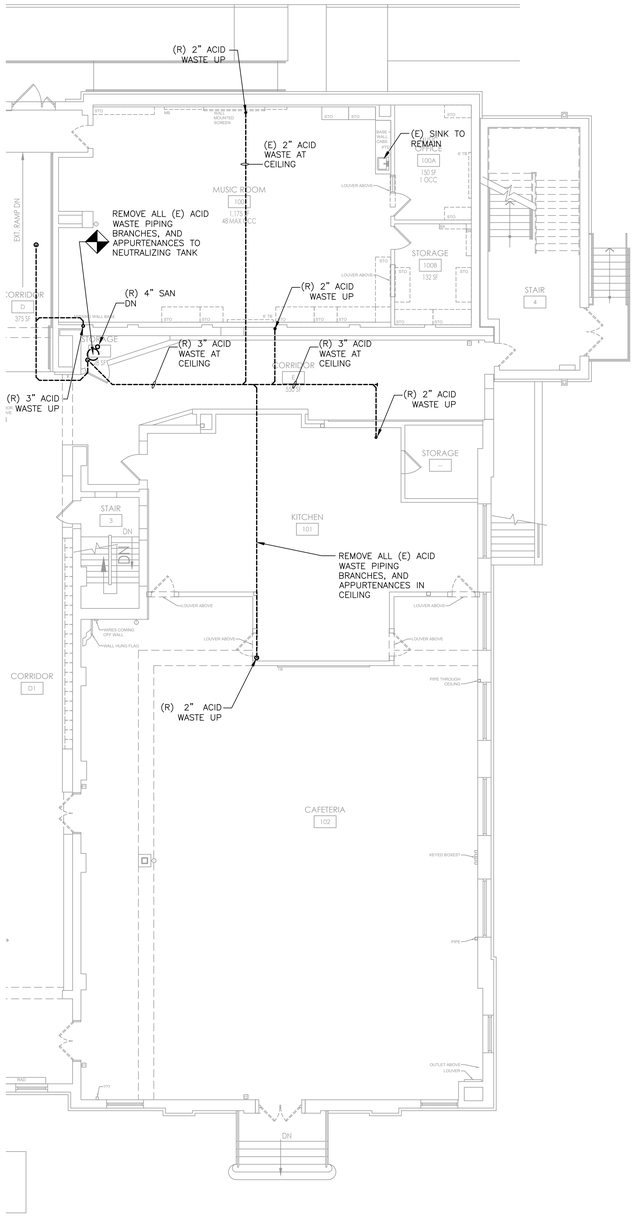


1 PLUMBING DEMOLITION FIRST FLOOR PLAN – PART B
SCALE: 1/8"=1'0"



2 PLUMBING DEMOLITION FIRST FLOOR PLAN – PART C
SCALE: 1/8"=1'0"

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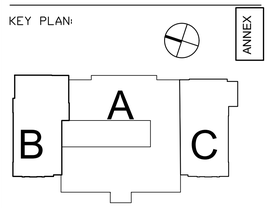

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Drawing Information:
Project No: 25.024
Date:
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Sheet Name:
PLUMB DEMO
1ST FLOOR

Sheet No:
PD-101B
Sheet 0 of 000

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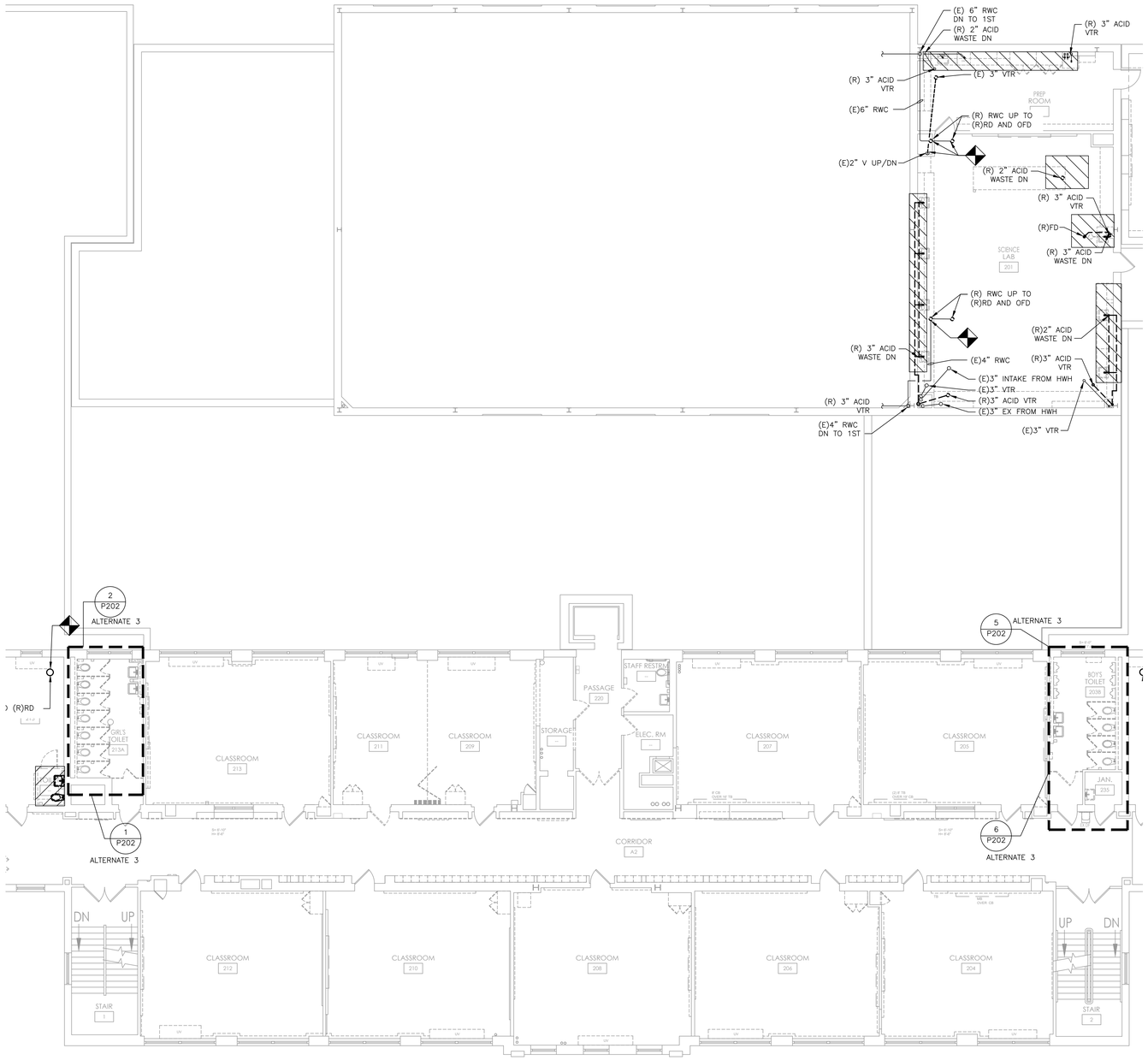
DEMOLITION LEGEND

REMOVE PIPING, FAUCETS, FIXTURES, VALVES, AND APPURTENANCES RELATED TO THE PLUMBING SYSTEM SHOWN IN THIS AREA



1 PLUMBING DEMOLITION SECOND FLOOR PLAN – PART A
SCALE: 1/8"=1'0"

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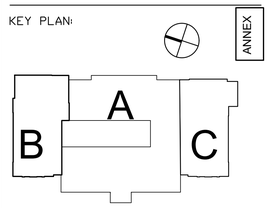
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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Richard D. Alderiso , AIA
NJ RA AI 15023, NY RA 027416, PA RA 405474

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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JBM
Checked By:

Sheet Name:
PLUMB DEMO 2ND FLOOR

Sheet No:
PD-102A
Sheet 0 of 000

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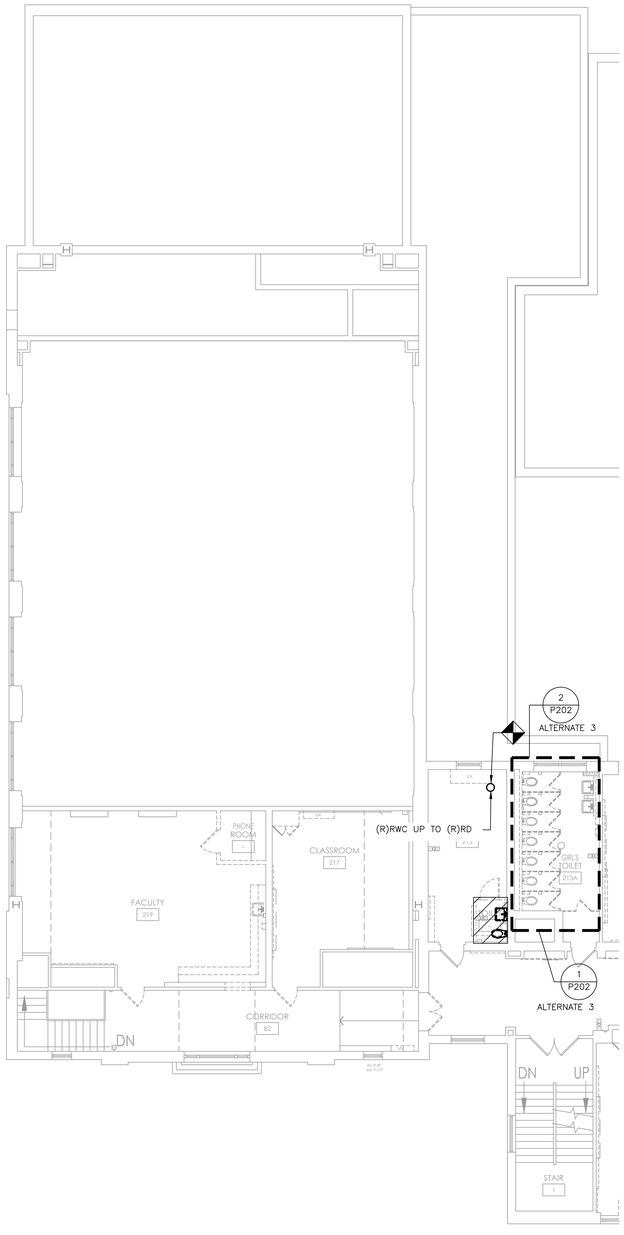
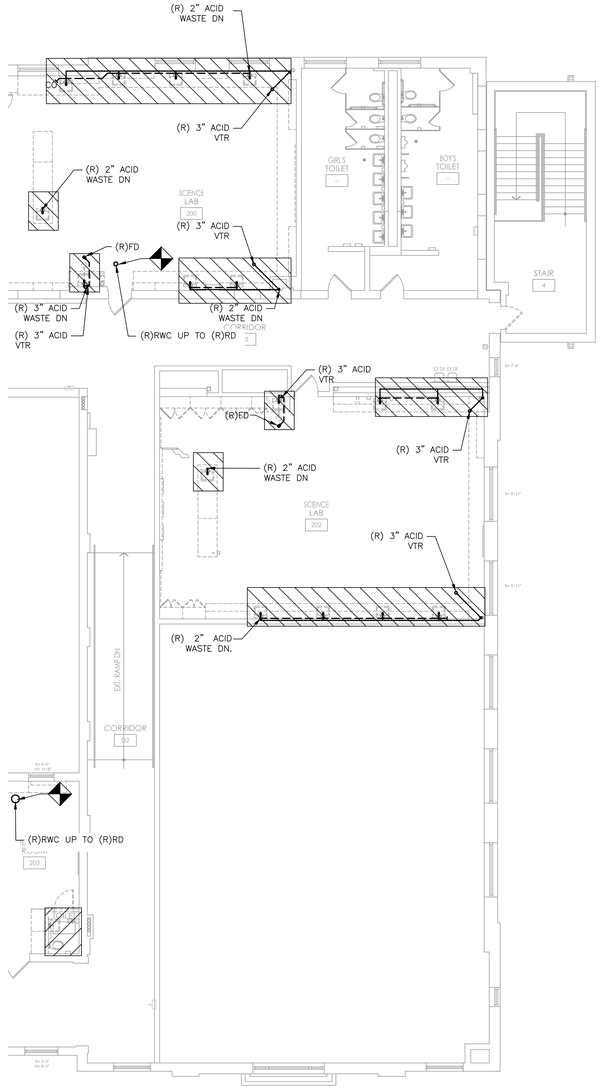
DEMOLITION LEGEND

REMOVE PIPING, FIXTURES, FAUCETS, VALVES, AND APPURTENANCES RELATED TO THE PLUMBING SYSTEM SHOWN IN THIS AREA



1 PLUMBING DEMOLITION SECOND FLOOR PLAN – PART B
SCALE: 1/8"=1'0"



2 PLUMBING DEMOLITION SECOND FLOOR PLAN – PART C
SCALE: 1/8"=1'0"

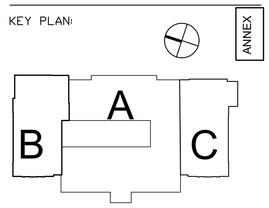
M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers

636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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Project:

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Glassboro, NJ 08028

Drawing Information:

Project No: 25.024
Date:
Drawn By: JBM
Checked By:

Sheet Name:

PLUMB DEMO
2ND FLOOR

Sheet No:

PD-102B

Sheet 0 of 000

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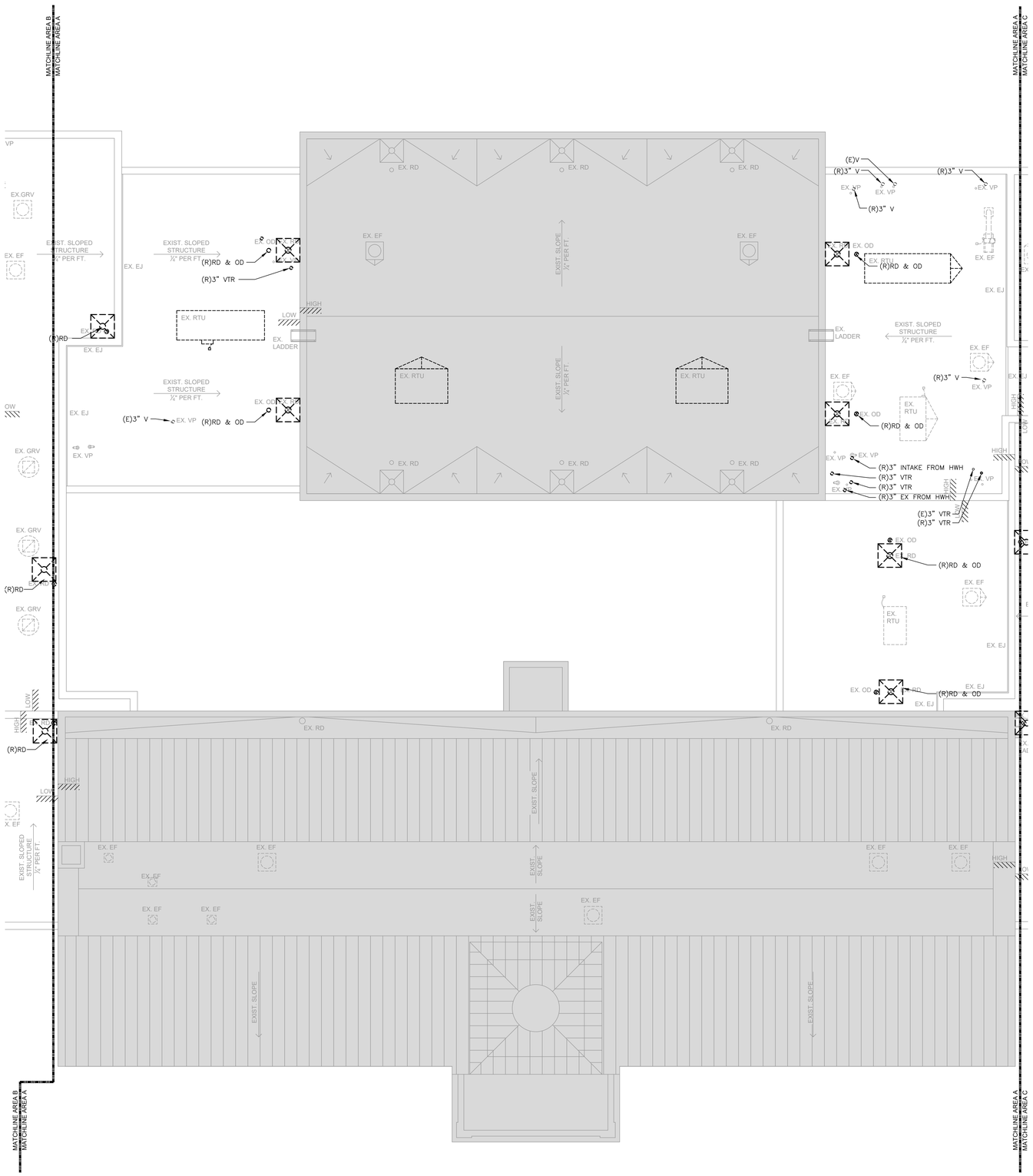

1 PLUMBING DEMOLITION ROOF PLAN – PART A
SCALE: 1/8"=1'0"

M/E/P Engineer:

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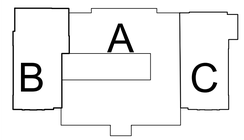
LICENSE NO.: GE45368

KEY PLAN:



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Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: DMS
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Sheet Name:
PLUMB DEMO ROOF PLAN

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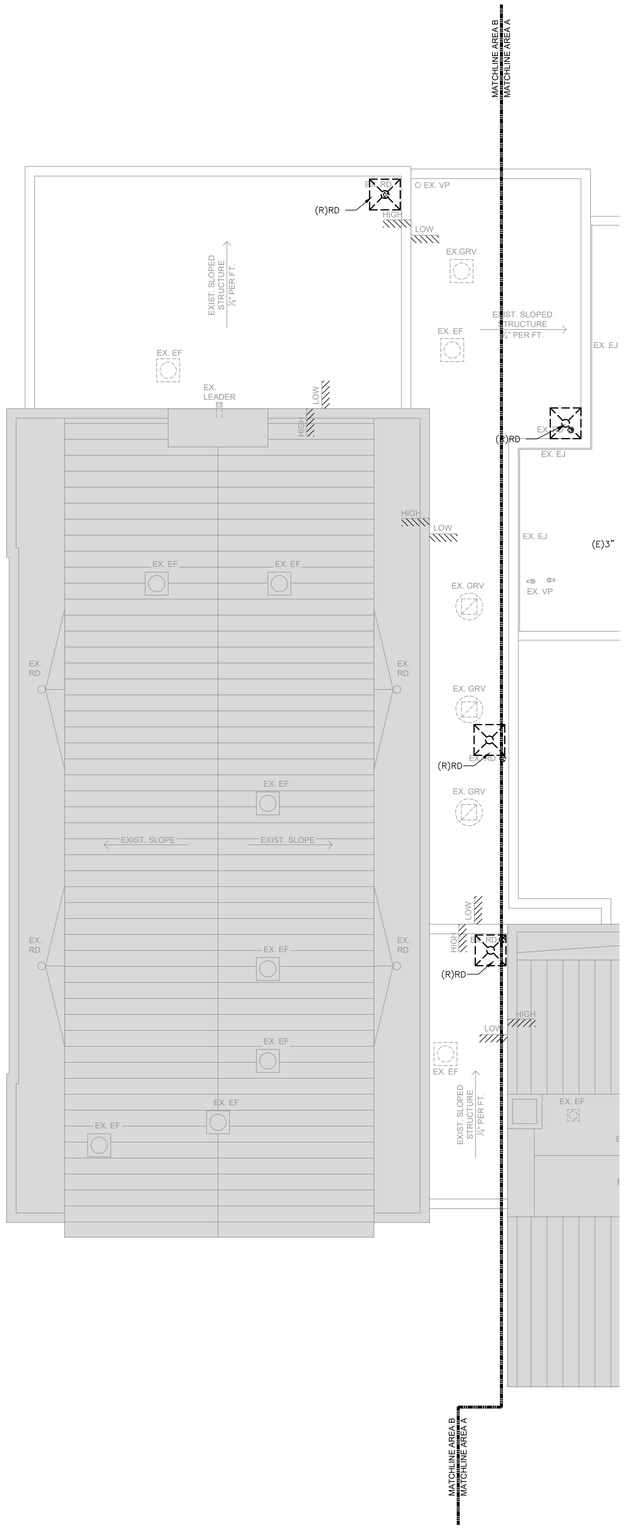
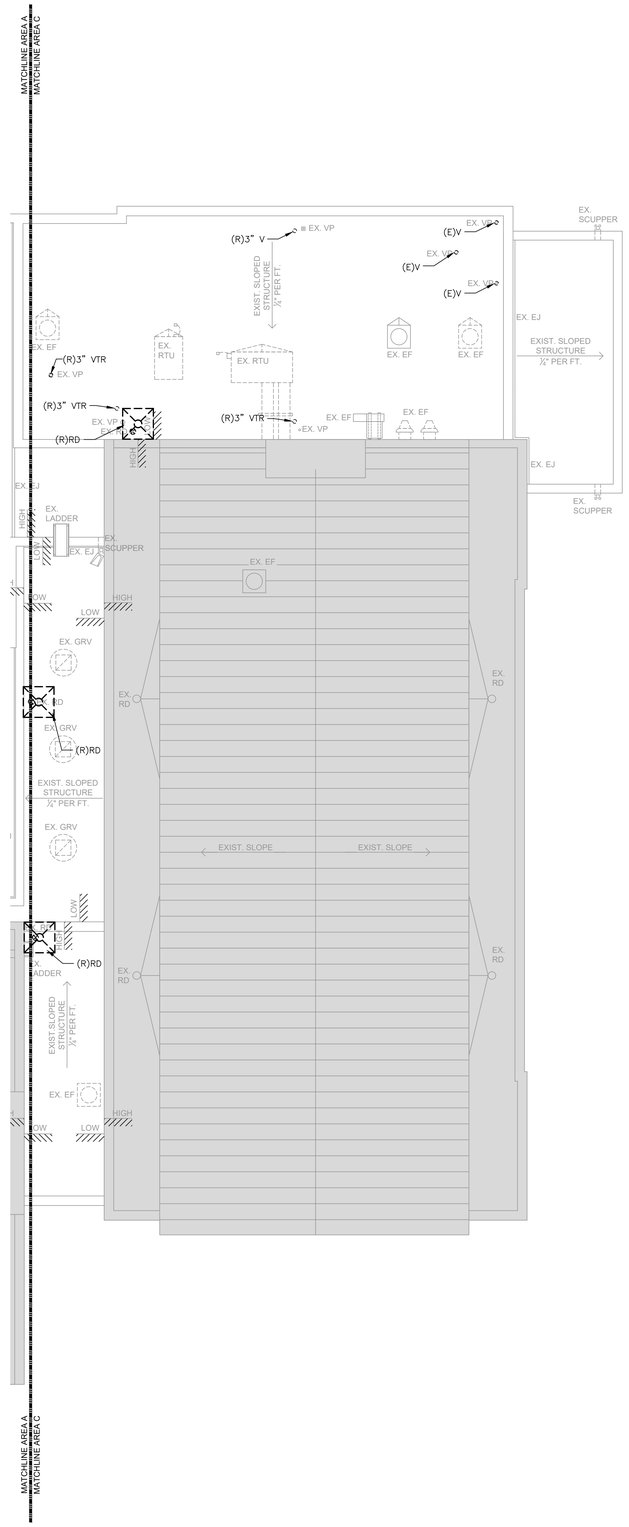


1 PLUMBING DEMOLITION ROOF PLAN – PART B
SCALE: 1/8"=1'0"



1 PLUMBING DEMOLITION ROOF PLAN – PART C
SCALE: 1/8"=1'0"

M/E/P Engineer:

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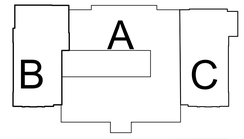
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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Glassboro, NJ 08028

Project:
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Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
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PLUMB DEMO ROOF PLAN

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1 PLUMBING DEMOLITION THIRD FLOOR PLAN
SCALE: 1/8"=1'0"

M/E/P Engineer:

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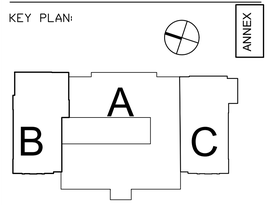
RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JBM
Checked By:

Sheet Name:
PLUMB DEMO
3RD FLOOR

Sheet No:
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Sheet 0 of 000

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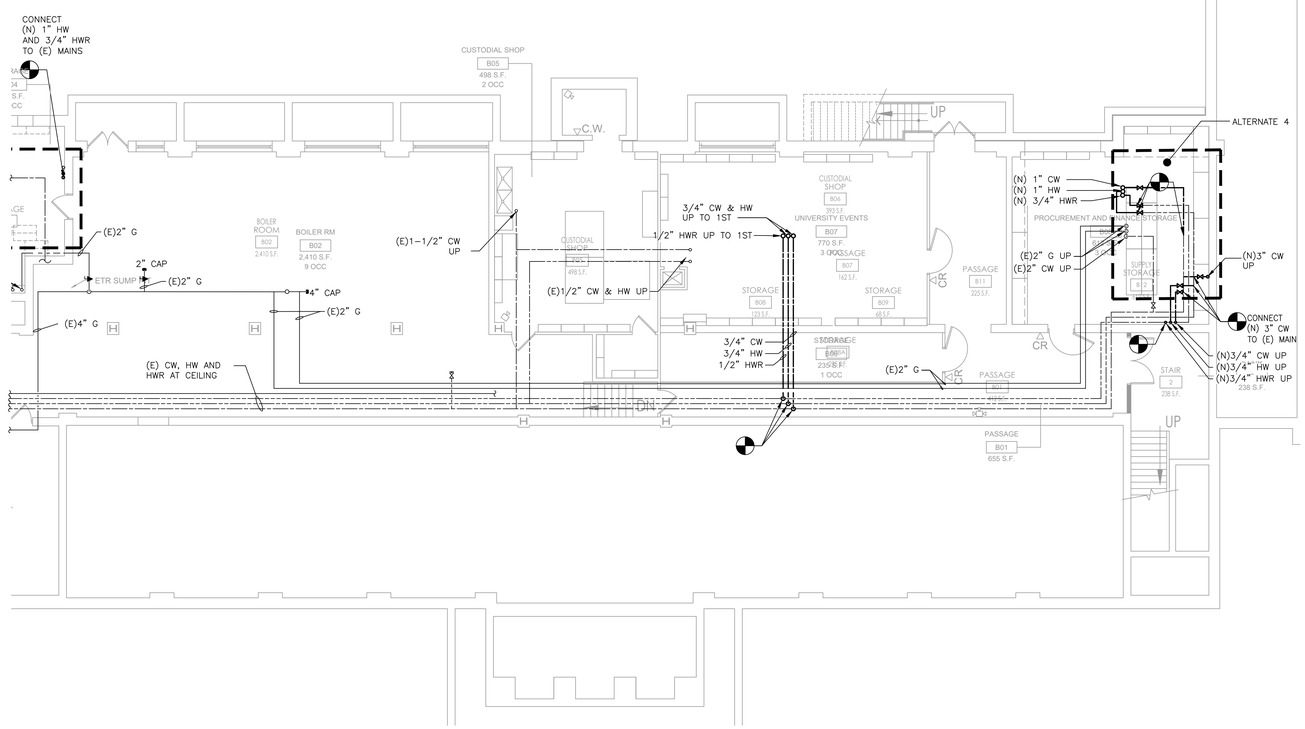
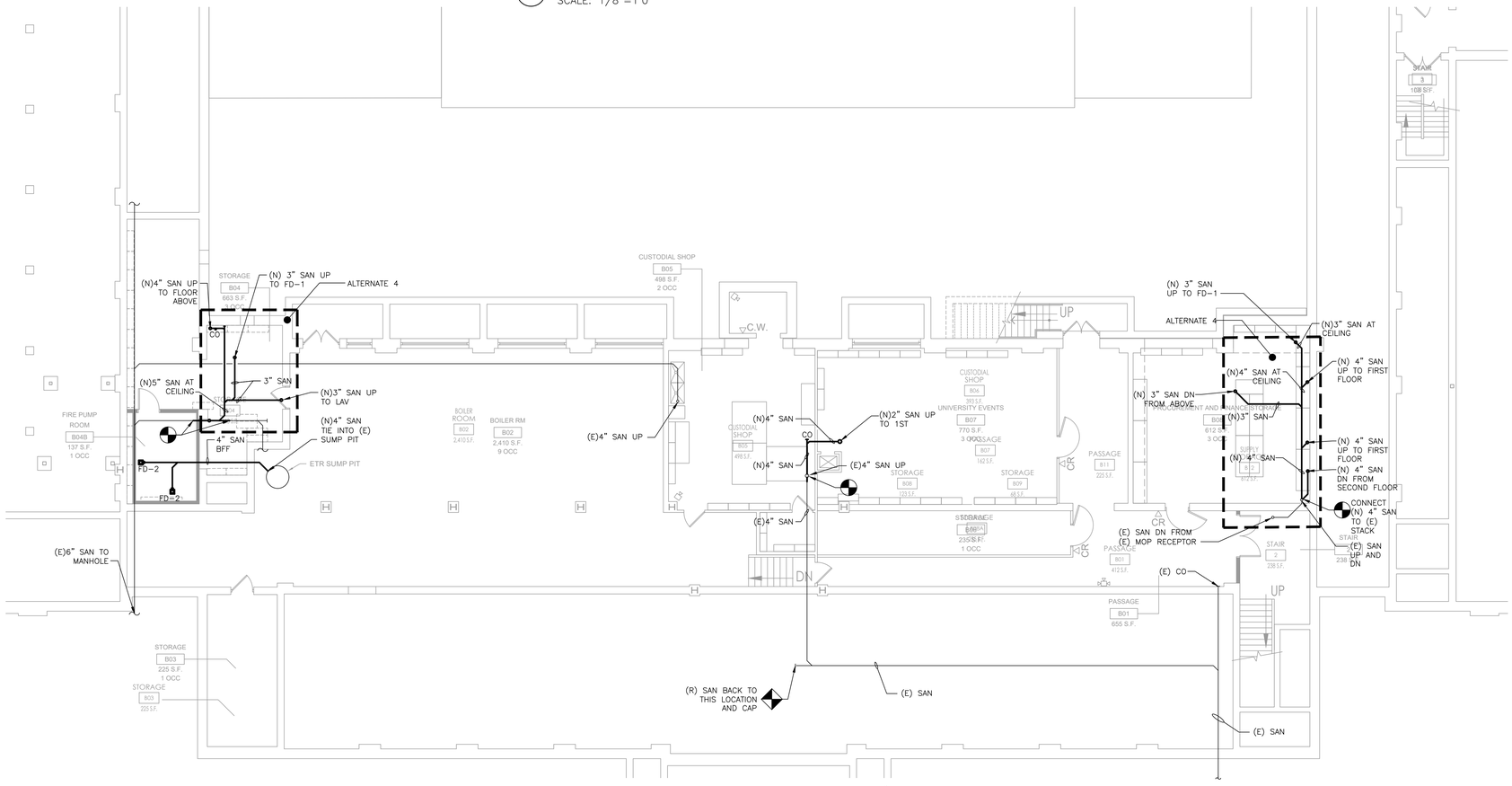


1 PLUMBING NEW WORK BASEMENT DOMESTIC WATER FLOOR PLAN – PART A
SCALE: 1/8"=1'0"



2 PLUMBING NEW WORK BASEMENT WASTE/VENT FLOOR PLAN – PART A
SCALE: 1/8"=1'0"

M/E/P Engineer:

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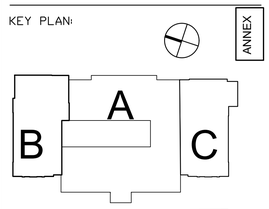
RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
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202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JBM
Checked By:

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PLUMB BASEMENT PLAN

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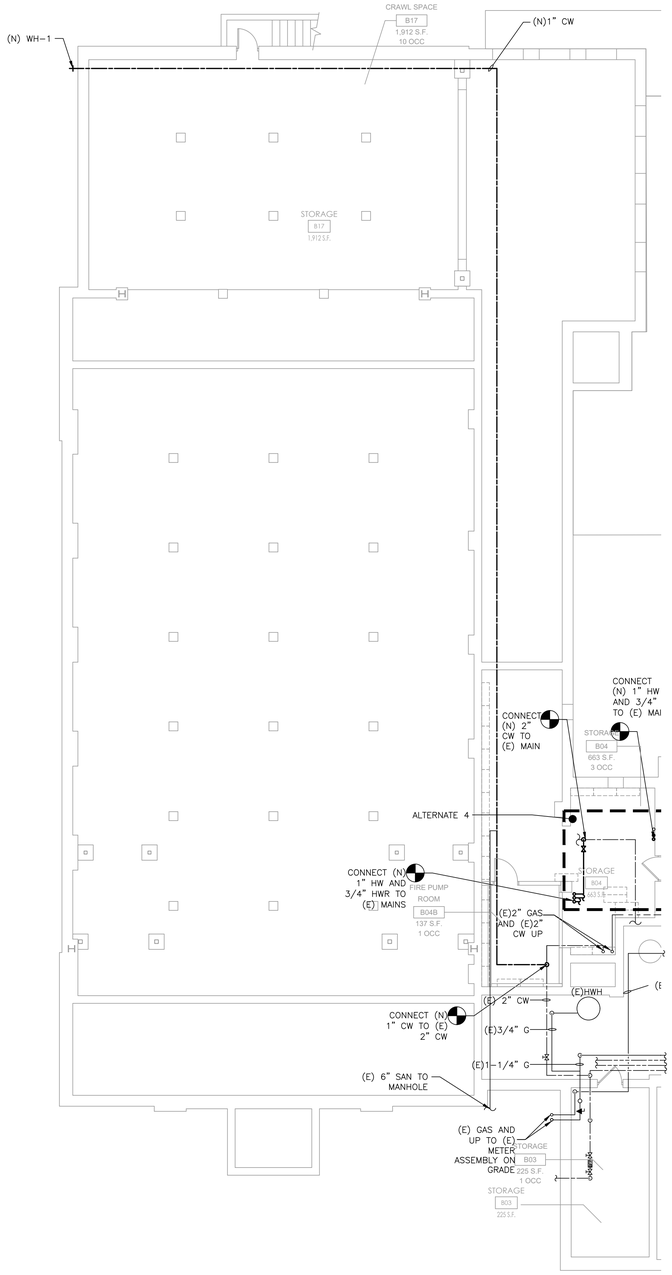
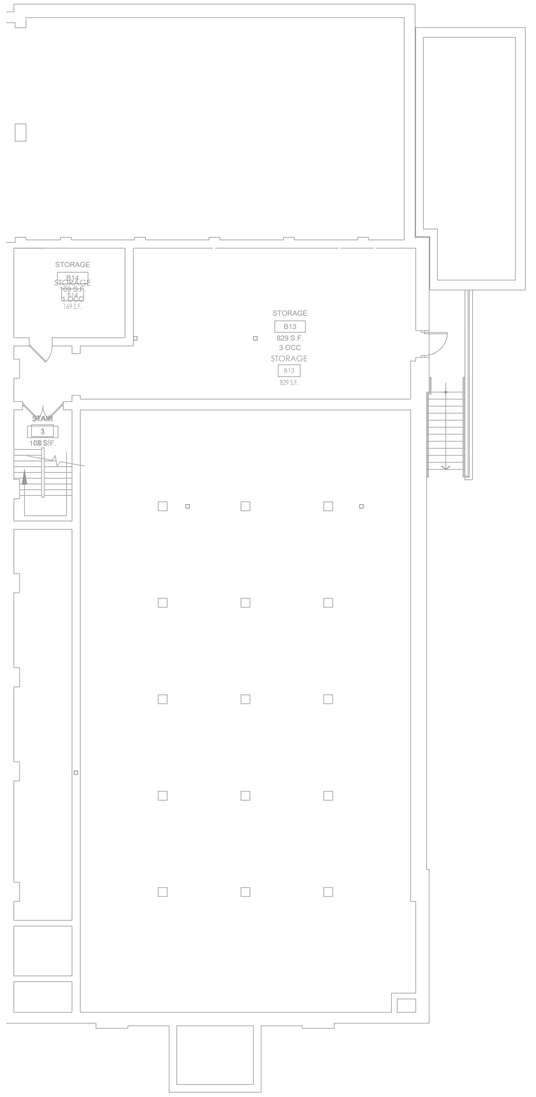


1 PLUMBING NEW WORK BASEMENT FLOOR PLAN – PART B
SCALE: 1/8"=1'0"



2 PLUMBING NEW WORK BASEMENT FLOOR PLAN – PART C
SCALE: 1/8"=1'0"

M/E/P Engineer:

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Certificate of Authorization: 24GA28014000
S&H JOB #2528A

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LICENSE NO.: GE45368

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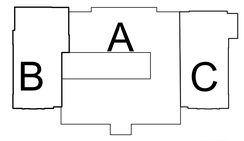

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NJ RA AI 15023, NY RA 027416, PA RA 405474

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Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JBM
Checked By:

Sheet Name:
PLUMB
BASEMENT PLAN

Sheet No:
P-100B
Sheet 0 of 000

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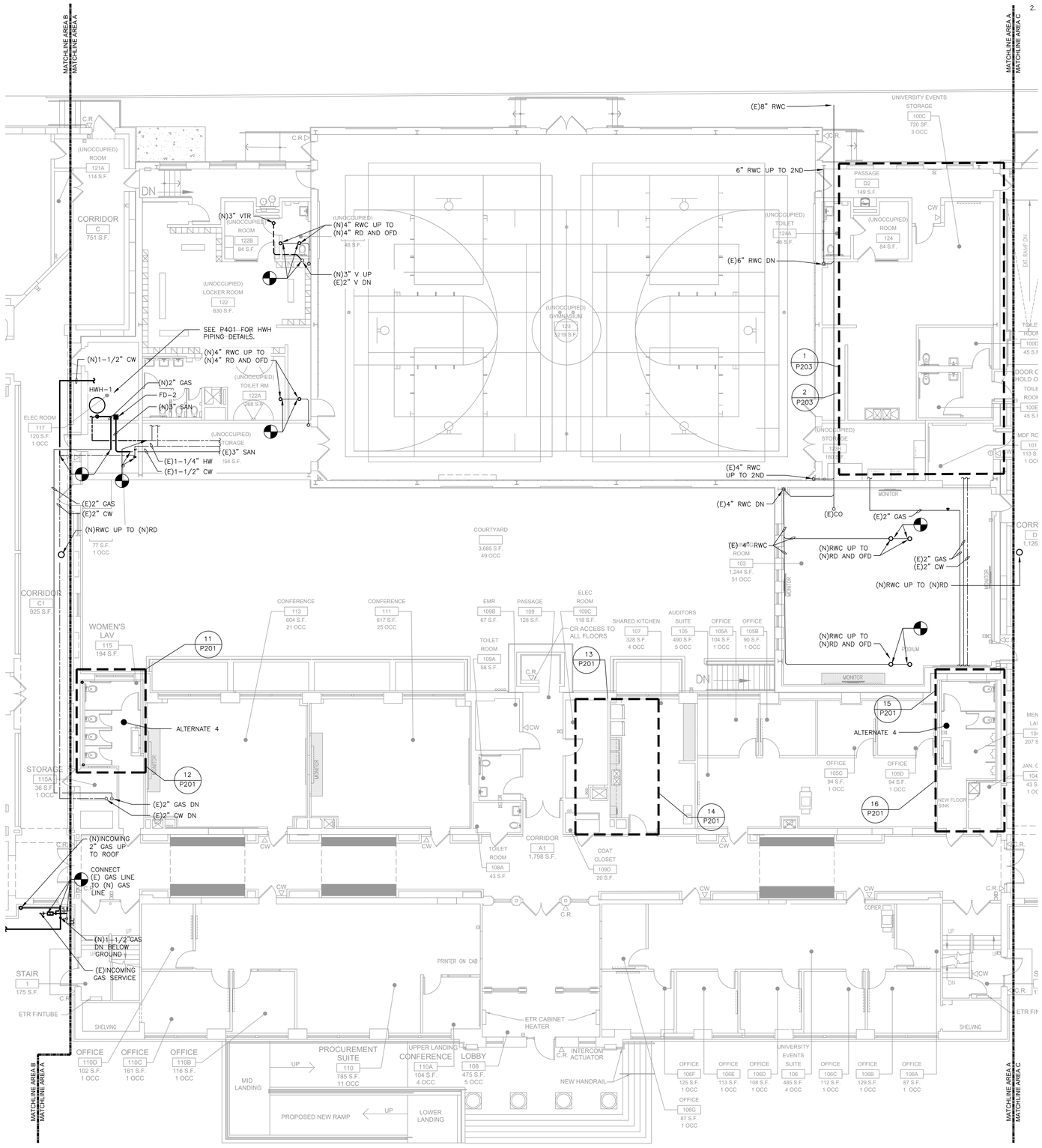

1 PLUMBING NEW WORK FIRST FLOOR PLAN – PART A
SCALE: 1/8"=1'0"

M/E/P Engineer:

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Consulting M/E/P Engineers

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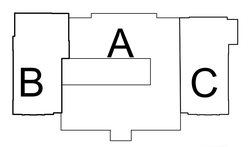
LICENSE NO.: GE45368

KEY PLAN:



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Project No: 25.024
Date:
Drawn By: JBM
Checked By:

Sheet Name:

PLUMB
1ST FLOOR

Sheet No:

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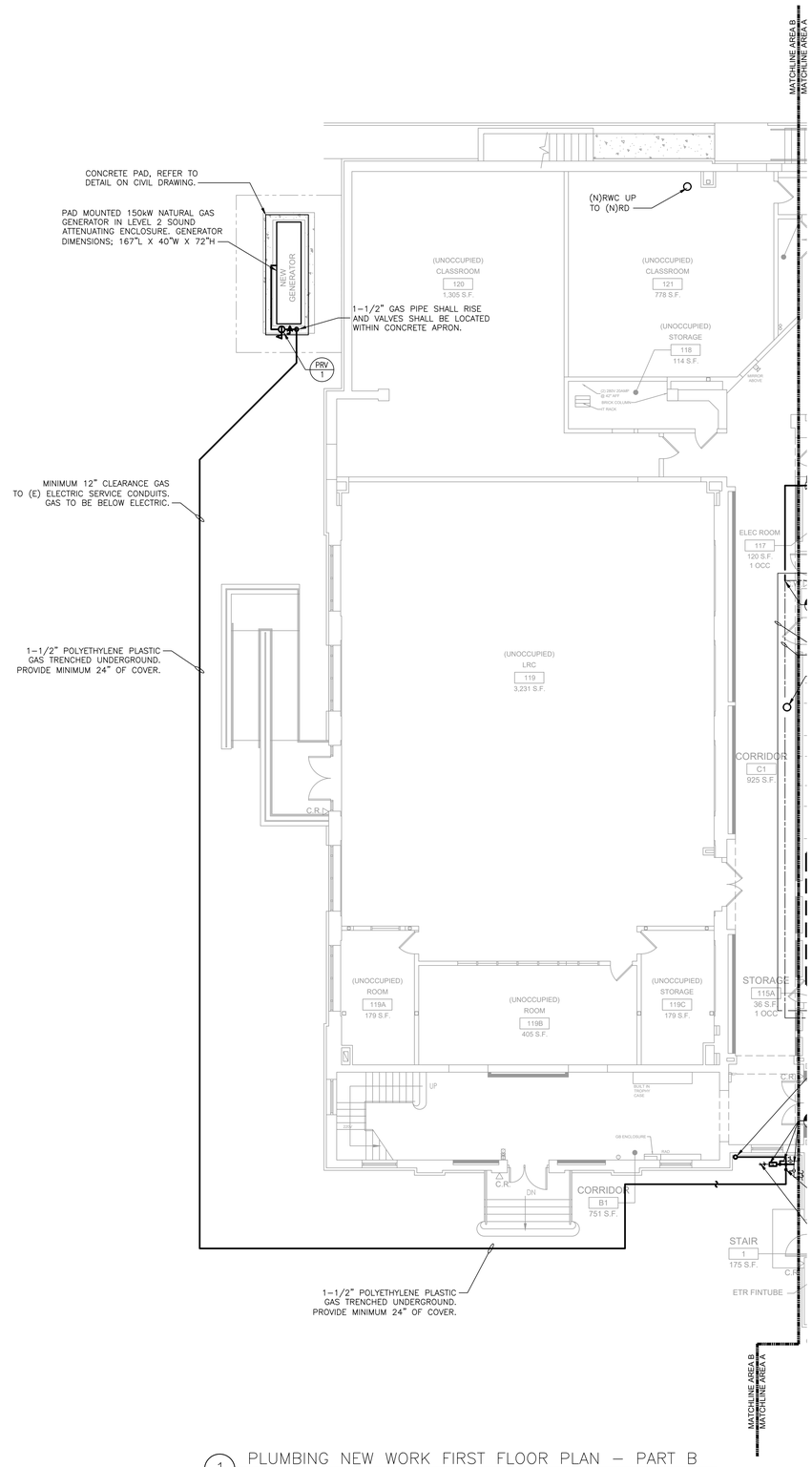
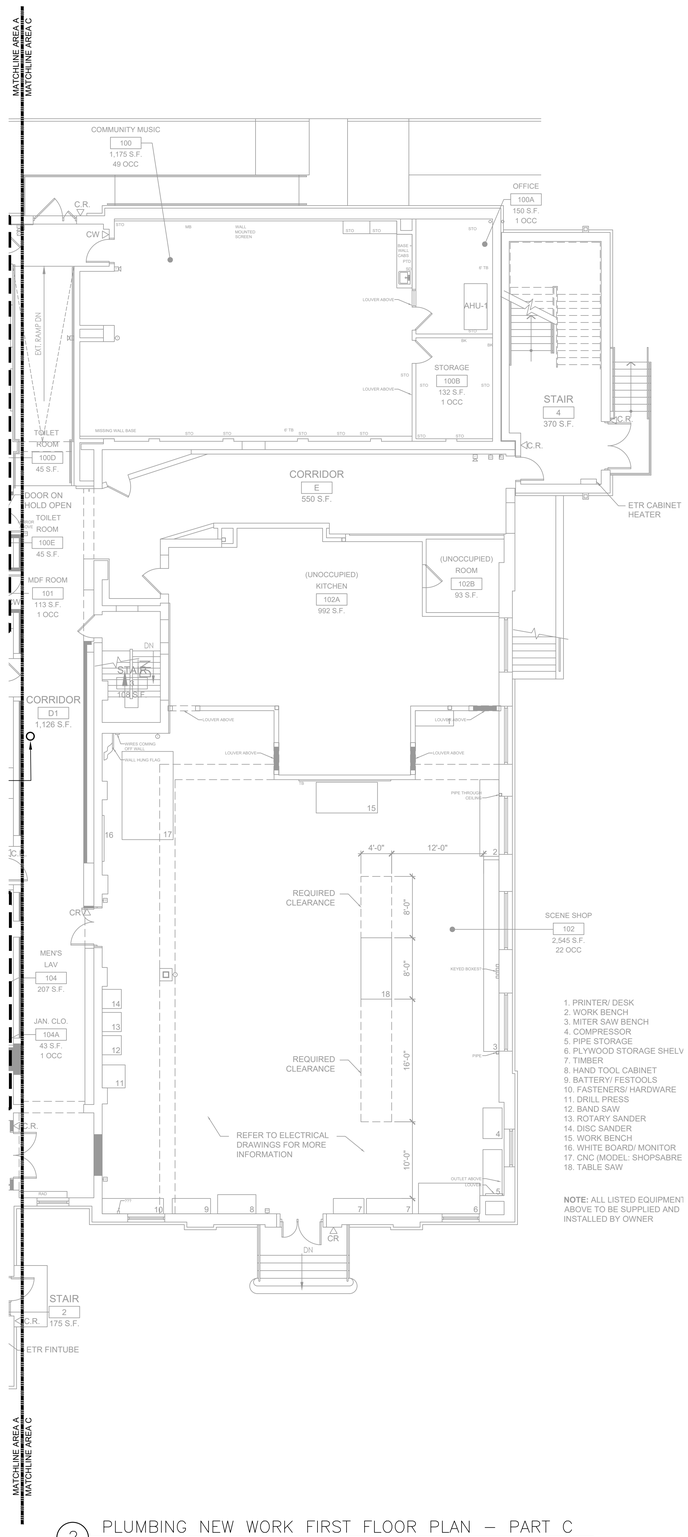


1 PLUMBING NEW WORK FIRST FLOOR PLAN – PART B
SCALE: 1/8"=1'0"



2 PLUMBING NEW WORK FIRST FLOOR PLAN – PART C
SCALE: 1/8"=1'0"

M/E/P Engineer:
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Consulting M/E/P Engineers
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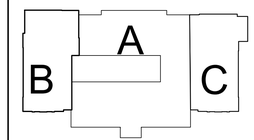

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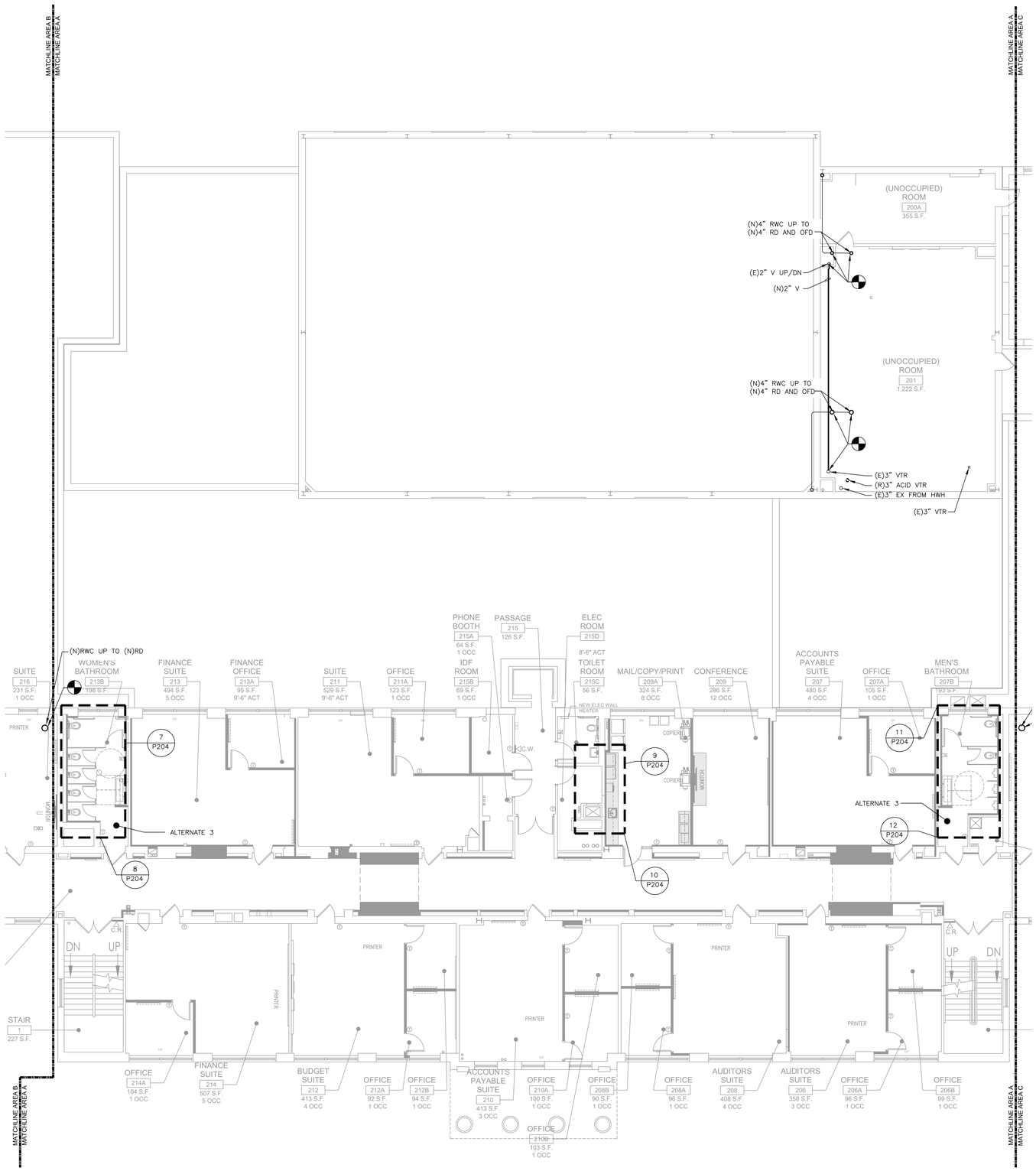

1 PLUMBING NEW WORK SECOND FLOOR PLAN – PART A
SCALE: 1/8"=1'0"

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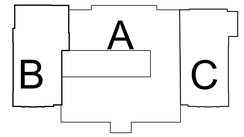
M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



No.	Date	Description
	12/08/25	OUT TO BID
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Richard D. Alderiso , AIA
NJ RA AI 15023, NY RA 027416, PA RA 405474

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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JBM
Checked By:

Sheet Name:
PLUMB
2ND FLOOR

Sheet No:
P-102A
Sheet 0 of 000

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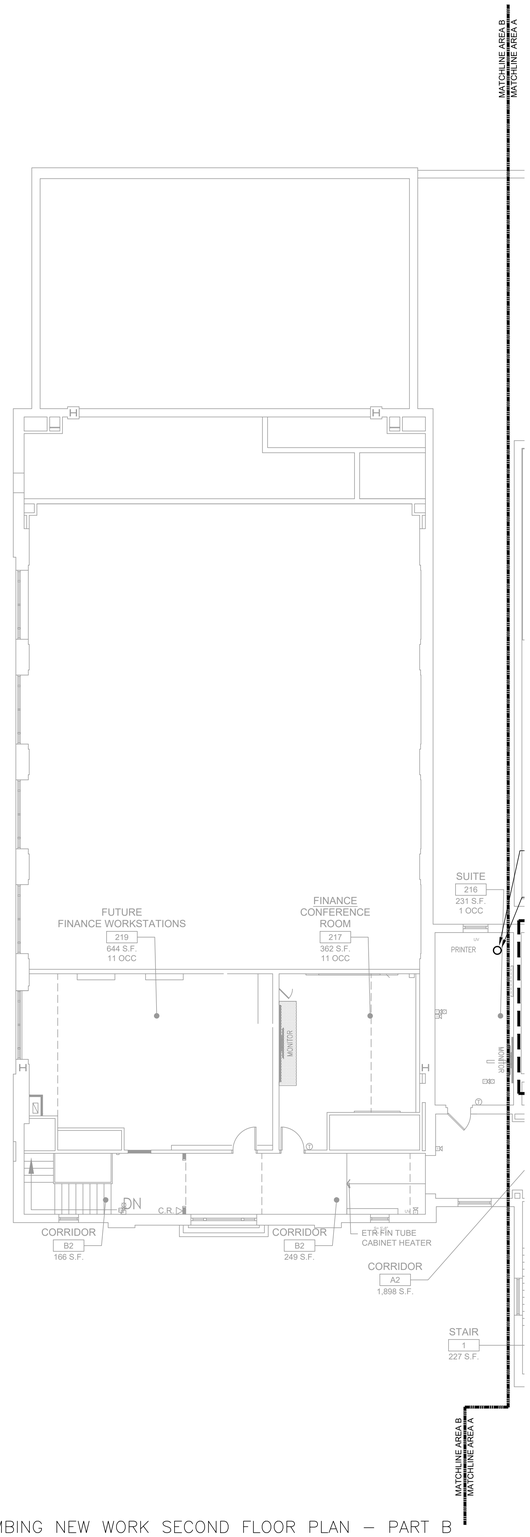
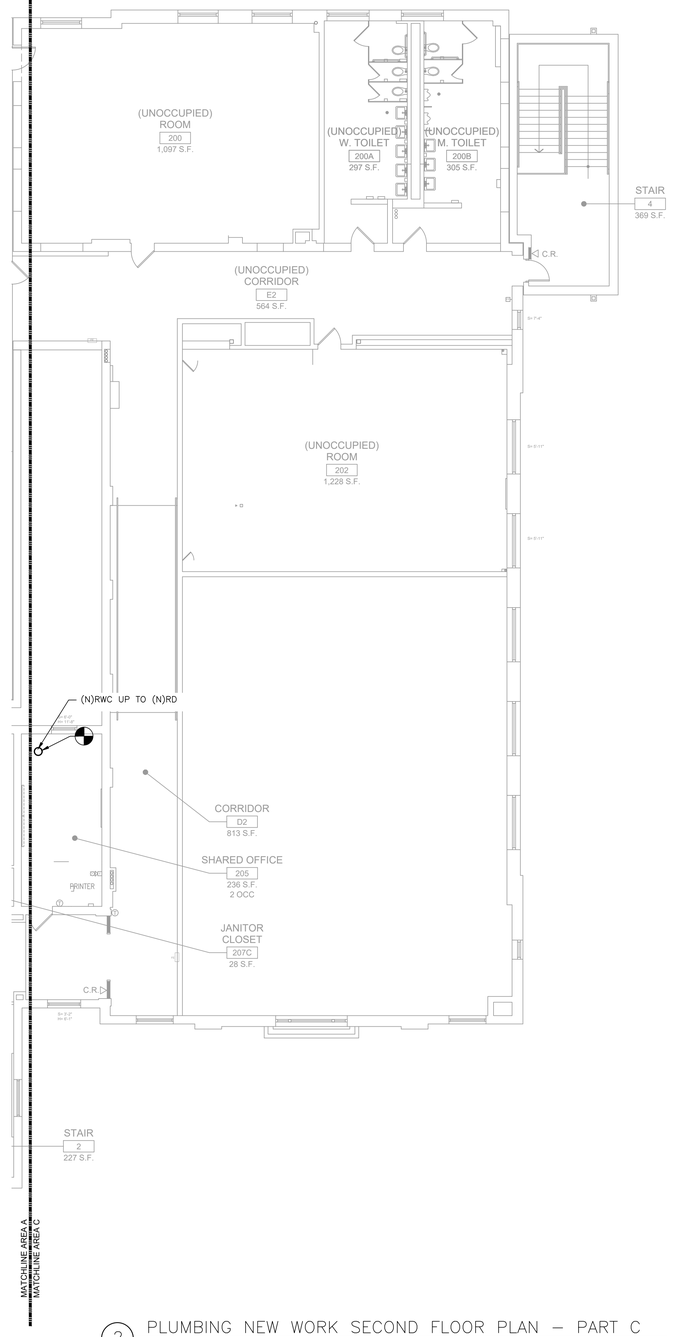


1 PLUMBING NEW WORK SECOND FLOOR PLAN – PART B
SCALE: 1/8"=1'0"



2 PLUMBING NEW WORK SECOND FLOOR PLAN – PART C
SCALE: 1/8"=1'0"

M/E/P Engineer:

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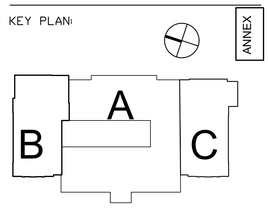
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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NJ RA AI 15023, NY RA 027416, PA RA 405474

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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JBM
Checked By:

Sheet Name:
PLUMB
2ND FLOOR

Sheet No:
P-102B
Sheet 0 of 000

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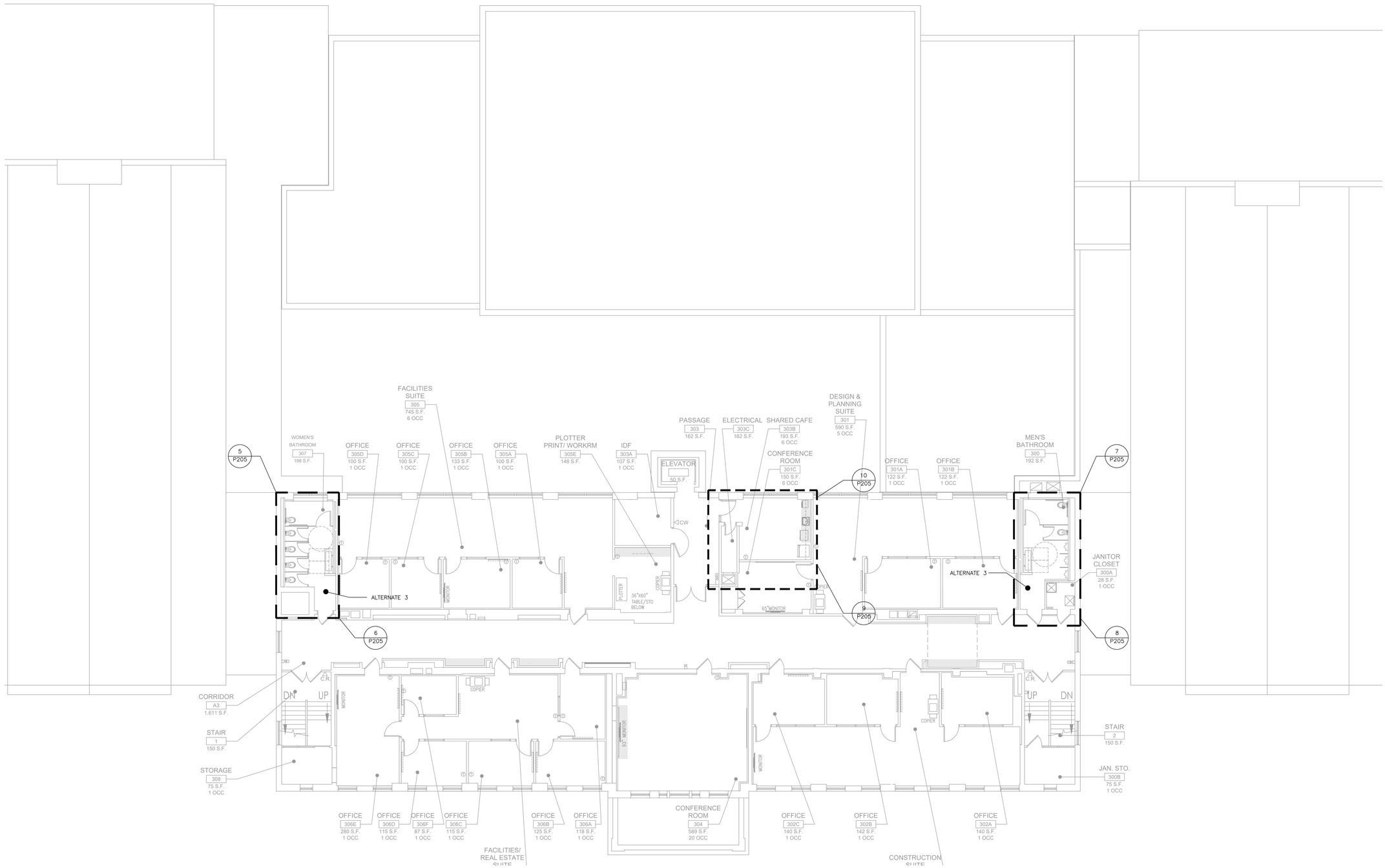

1 PLUMBING NEW WORK THIRD FLOOR PLAN
SCALE: 1/8"=1'0"

M/E/P Engineer:

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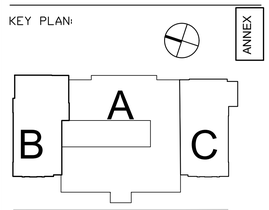
LICENSE NO.: GE45368

KEY PLAN:



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NJ RA AI 15023, NY RA 027416, PA RA 405474

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Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JBM
Checked By:

Sheet Name:
PLUMB
3RD FLOOR

Sheet No:
P-103
Sheet 0 of 000

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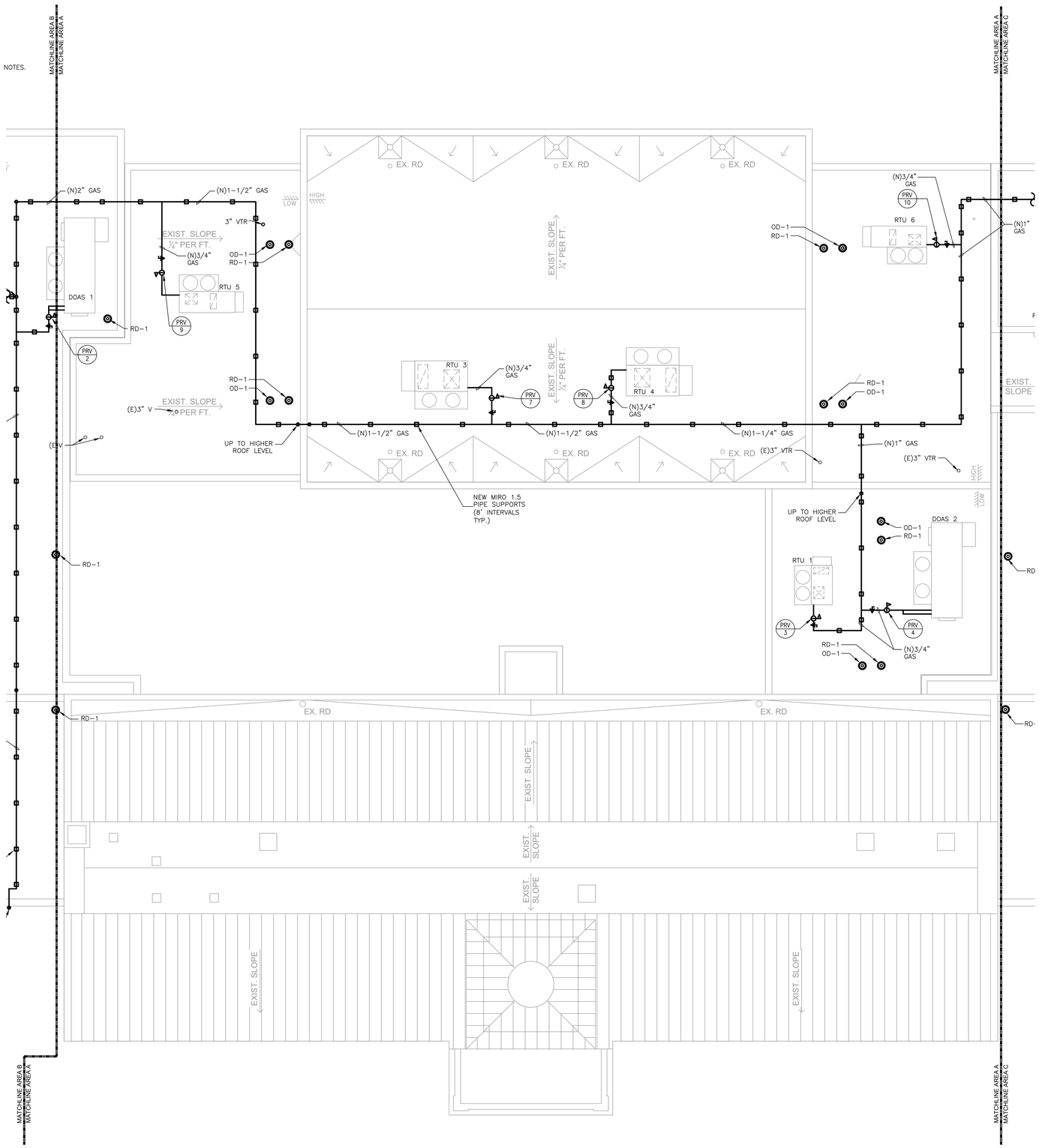

1 PLUMBING NEW WORK ROOF PLAN PART A
SCALE: 1/8"=1'0"

M/E/P Engineer:

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Consulting M/E/P Engineers
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NJ RA AI 15023, NY RA 027416, PA RA 405474

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Glassboro, NJ 08028

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BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JBM
Checked By:

Sheet Name:
PLUMB ROOF PLAN

Sheet No:
P-104A
Sheet 0 of 000

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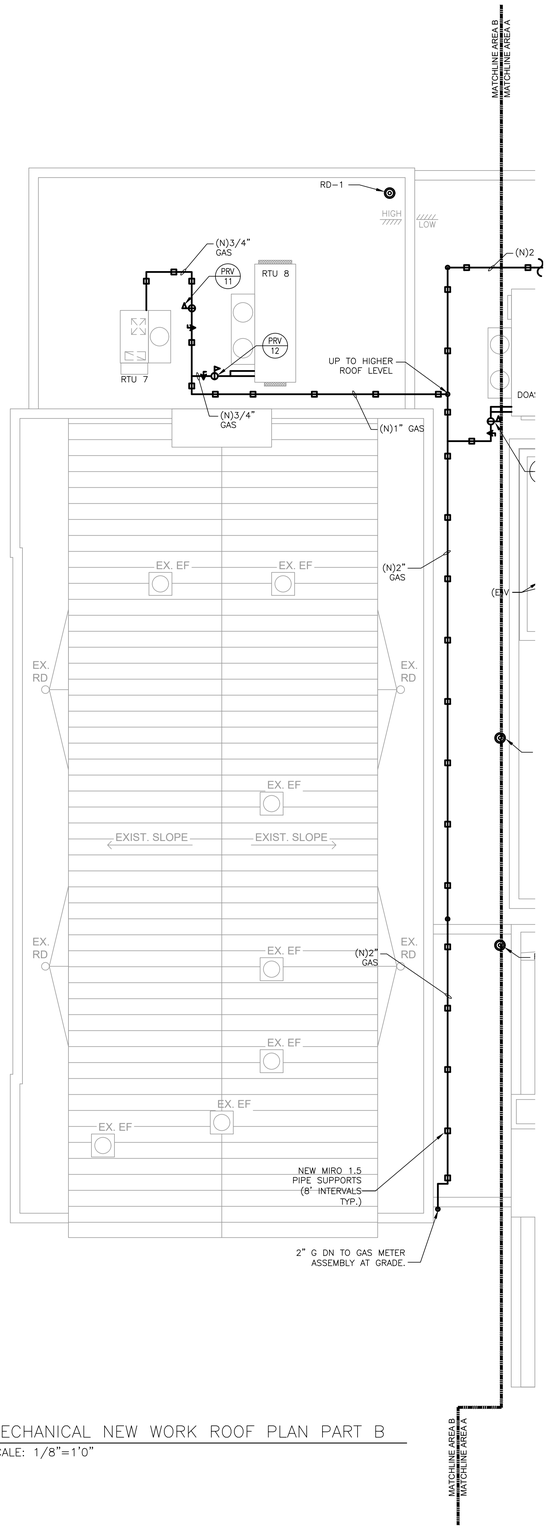
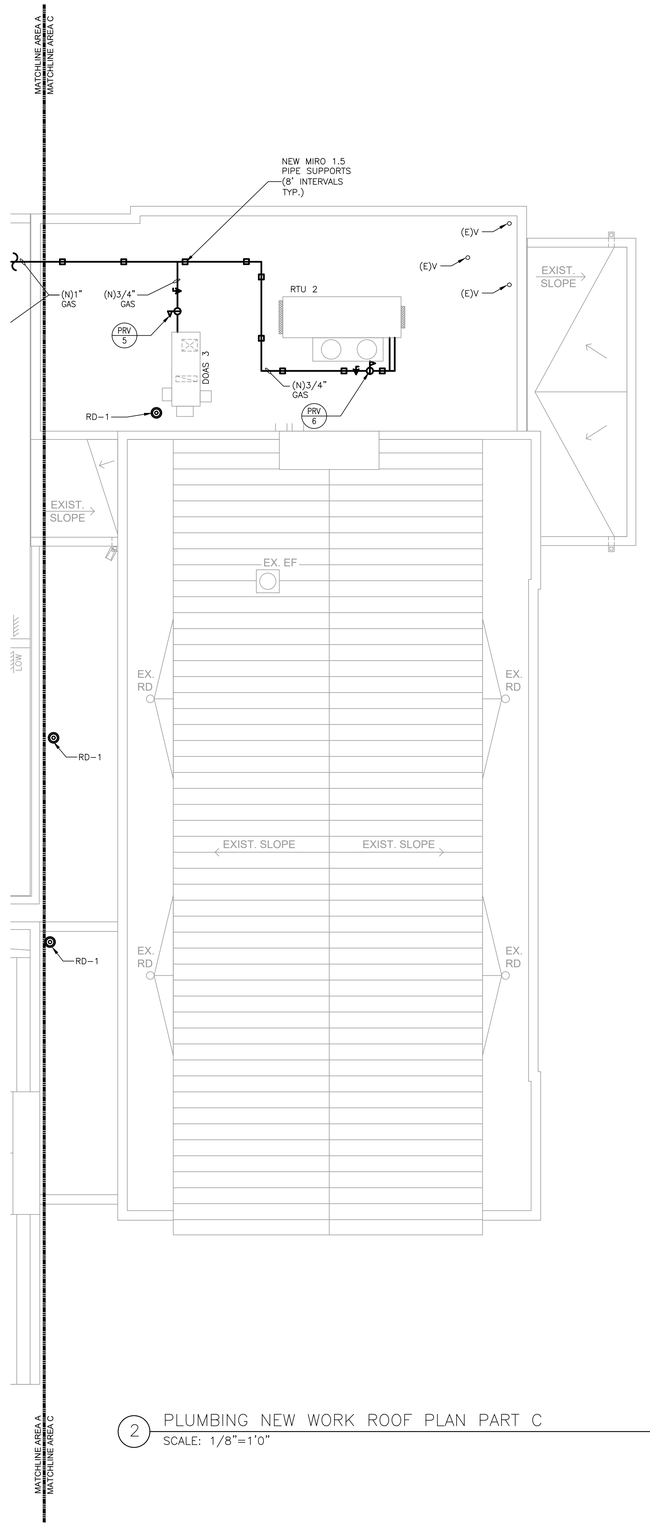


1 MECHANICAL NEW WORK ROOF PLAN PART B
SCALE: 1/8"=1'0"



2 PLUMBING NEW WORK ROOF PLAN PART C
SCALE: 1/8"=1'0"

M/E/P Engineer:

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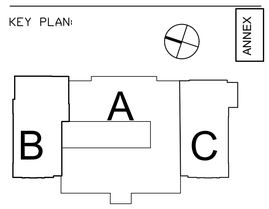
LICENSE NO.: GE45368

KEY PLAN:



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Drawing Information:
Project No: 25.024
Date:
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Sheet Name:
PLUMB ROOF PLAN

Sheet No:
P-104B
Sheet 0 of 000

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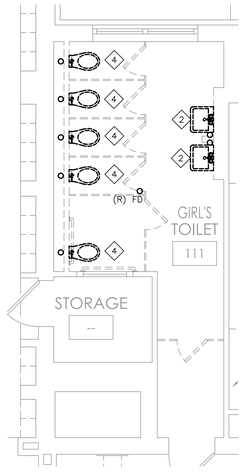
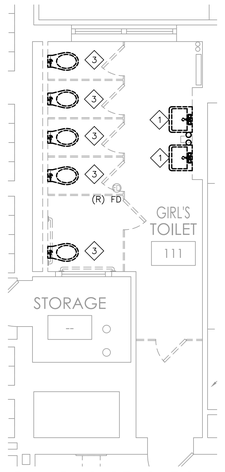
2. ALL EXPOSED PIPING IN RESTROOMS TO BE RELOCATED IN CHASE (TYP).
3. ALL WORK SHOWN IS TO BE NEW, UNLESS OTHERWISE NOTED.
4. ALL EXISTING FLOOR DRAINS IN RENOVATED RESTROOMS TO BE REPLACED.



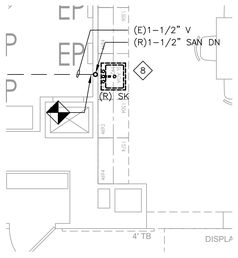
PLUMBING DEMOLITION FIRST FLOOR PLAN – GIRL'S TOILET RM.111 – WASTE/VENT (ALT 4)

1 SCALE: 1/4"=1'0"



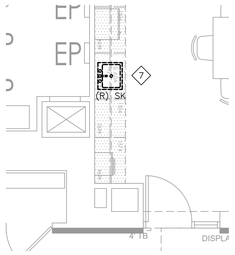
PLUMBING DEMOLITION FIRST FLOOR PLAN – GIRL'S TOILET RM.111 – DOMESTIC WATER (ALT 4)

2 SCALE: 1/4"=1'0"



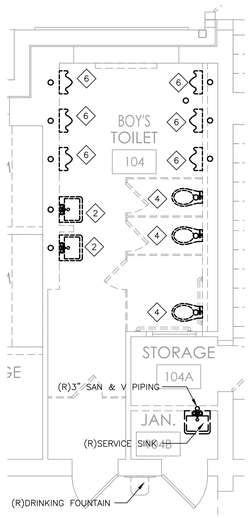
PLUMBING DEMOLITION FIRST FLOOR PLAN – KITCHEN 105 – WASTE/VENT

3 SCALE: 1/4"=1'0"



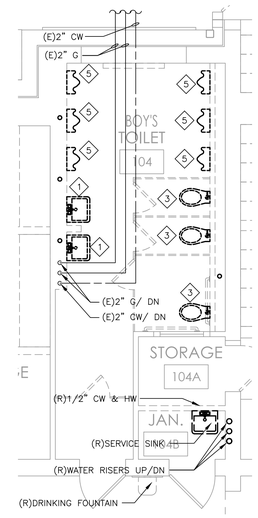
PLUMBING DEMOLITION FIRST FLOOR PLAN – KITCHEN 105 – DOMESTIC WATER

4 SCALE: 1/4"=1'0"



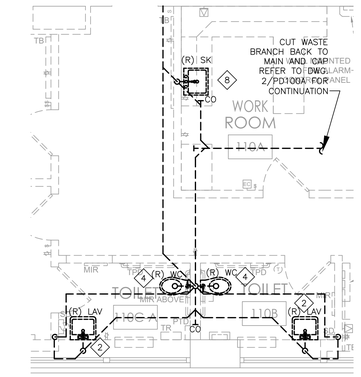
PLUMBING DEMOLITION FIRST FLOOR PLAN – BOY'S TOILET 104 – WASTE/VENT (ALT 4)

5 SCALE: 1/4"=1'0"



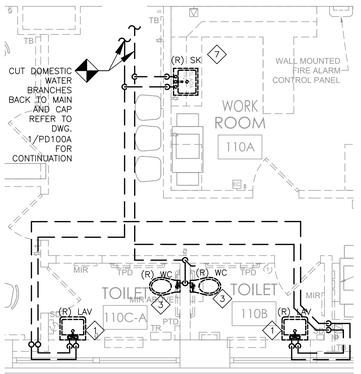
PLUMBING DEMOLITION FIRST FLOOR PLAN – BOY'S TOILET 104 – DOMESTIC WATER (ALT 4)

6 SCALE: 1/4"=1'0"



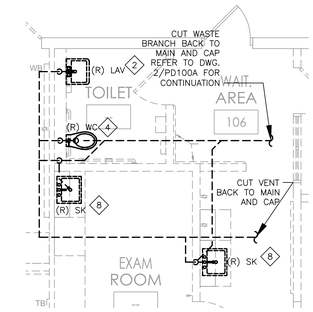
PLUMBING DEMOLITION FIRST FLOOR PLAN – TOILETS 110 A/B – WASTE/VENT

7 SCALE: 1/4"=1'0"



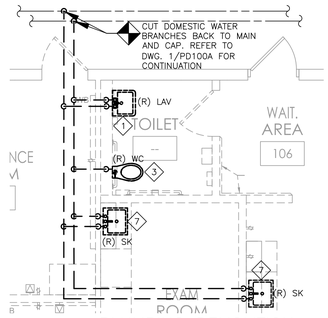
PLUMBING DEMOLITION FIRST FLOOR PLAN – TOILETS 110 A/B – DOMESTIC WATER

8 SCALE: 1/4"=1'0"



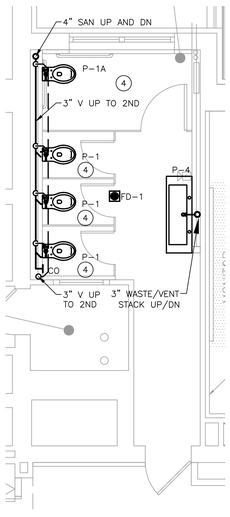
PLUMBING DEMOLITION FIRST FLOOR PLAN – TOILET AND EXAM RM – WASTE/VENT

9 SCALE: 1/4"=1'0"



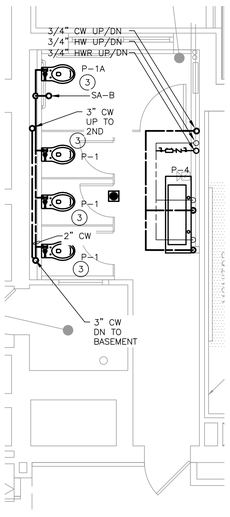
PLUMBING DEMOLITION FIRST FLOOR PLAN – TOILET AND EXAM RM – DOMESTIC WATER

10 SCALE: 1/4"=1'0"



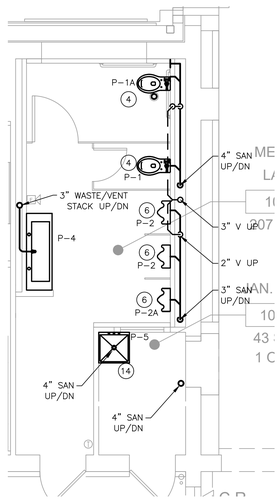
PLUMBING NEW WORK FIRST FLOOR PLAN – WOMEN'S TOILET RM.115 – WASTE/VENT(ALT 4)

11 SCALE: 1/4"=1'0"



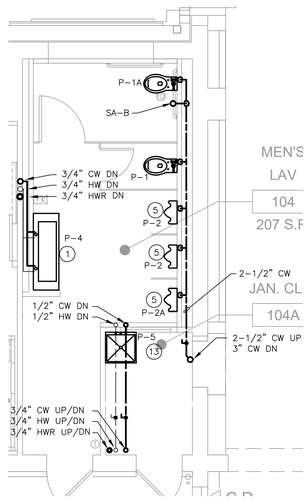
PLUMBING NEW WORK FIRST FLOOR PLAN – WOMEN'S TOILET RM.115 – DOMESTIC WATER(ALT 4)

12 SCALE: 1/4"=1'0"



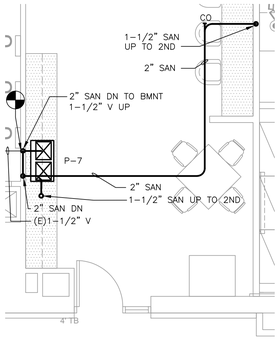
PLUMBING NEW WORK FIRST FLOOR PLAN – MEN'S TOILET 104 – WASTE/VENT (ALT 4)

15 SCALE: 1/4"=1'0"



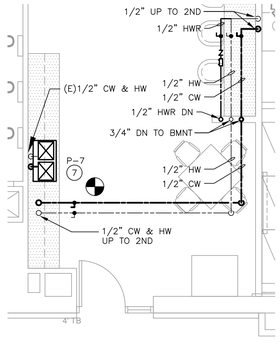
PLUMBING NEW WORK FIRST FLOOR PLAN – MEN'S TOILET 104 – DOMESTIC WATER (ALT 4)

16 SCALE: 1/4"=1'0"



PLUMBING NEW WORK FIRST FLOOR PLAN – KITCHEN 107 – WASTE/VENT

13 SCALE: 1/4"=1'0"



PLUMBING NEW WORK FIRST FLOOR PLAN – KITCHEN 107 – DOMESTIC WATER

14 SCALE: 1/4"=1'0"

DEMOLITION PLAN KEY NOTES:

1. REMOVE LAVATORY, TRIM AND HW, CW, PIPING, INCLUDING CONNECTIONS FROM SINK FAUCET AND APPURTENANCES. PIPING TO BE REMOVED IN WALL AND/OR FLOOR UNLESS OTHERWISE SHOWN. REMOVE EXISTING PIPING FOR ANY UNUSED CONNECTIONS IN WALL. TEMPORARILY CAP EXISTING RISER AT CEILING FOR CONNECTION TO (N) PIPING TO BE INSTALLED IN FIRST FLOOR TOILET ROOM.
2. REMOVE LAVATORY, WASTE AND VENT PIPING, INCLUDING TRAP AND ALL WASTE APPURTENANCES. PIPING TO BE REMOVED IN WALL AND/OR FLOOR UNLESS OTHERWISE SHOWN. TEMPORARILY CAP EXISTING RISER AT CEILING FOR CONNECTION TO (N) PIPING TO BE INSTALLED IN FIRST FLOOR TOILET ROOM.
3. REMOVE WATER CLOSET AND CW, PIPING IN WALL AND/OR CHASE UNLESS OTHERWISE SHOWN. TEMPORARILY CAP EXISTING RISER AT CEILING FOR CONNECTION TO (N) PIPING TO BE INSTALLED IN FIRST FLOOR TOILET ROOM.
4. REMOVE WATER CLOSET, WASTE AND VENT PIPING, INCLUDING ALL WASTE APPURTENANCES. PIPING TO BE REMOVED IN WALL AND/OR CHASE UNLESS OTHERWISE SHOWN. REMOVE ANY UNUSED PIPING FROM PREVIOUS BRANCH LOCATION.
5. REMOVE URINAL AND CW, PIPING IN WALL AND/OR CHASE UNLESS OTHERWISE SHOWN.
6. REMOVE URINAL, WASTE AND VENT PIPING, INCLUDING ALL WASTE APPURTENANCES. PIPING TO BE REMOVED IN WALL AND/OR CHASE UNLESS OTHERWISE SHOWN. REMOVE EXISTING PIPING IN WALL FOR URINAL.
7. REMOVE SINK, TRIM AND HW, CW, PIPING, INCLUDING CONNECTIONS FROM SINK FAUCET AND APPURTENANCES. PIPING TO BE REMOVED TO WALL AND/OR FLOOR UNLESS OTHERWISE SHOWN ON PLAN.
8. REMOVE SINK, WASTE AND VENT PIPING, INCLUDING TRAP AND ALL WASTE APPURTENANCES. PIPING TO BE REMOVED TO WALL AND/OR FLOOR UNLESS OTHERWISE SHOWN.

NEW WORK PLAN KEY NOTES:

1. PROVIDE AND INSTALL NEW 1/2" HW & CW TO NEW LAVATORY FROM NEW PIPING IN WALL.
2. PROVIDE NEW TRAPS AND ASSOCIATED PIPING TO NEW LAVATORY TO FOSTER CONNECTION WITH NEW SANITARY PIPING IN CHASE.
3. PROVIDE AND INSTALL NEW 1" CW TO NEW WATER CLOSET TO NEW DOMESTIC WATER PIPING IN WALL.
4. PROVIDE ASSOCIATED PIPING TO NEW WATER CLOSETS TO FOSTER CONNECTION WITH NEW SANITARY PIPING IN CHASE.
5. PROVIDE AND INSTALL NEW 3/4" CW TO NEW URINAL TO NEW DOMESTIC WATER PIPING IN WALL.
6. PROVIDE ASSOCIATED PIPING TO NEW URINAL TO FOSTER CONNECTION WITH NEW SANITARY PIPING.
7. PROVIDE AND INSTALL NEW 1/2" HW & CW TO NEW SINK FROM PREVIOUS POINTS OF DISCONNECT IN WALL.
8. PROVIDE NEW TRAPS AND ASSOCIATED PIPING TO NEW SINK TO FOSTER CONNECTION WITH EXISTING SANITARY PIPING.
9. CONNECT NEW HW, CW & HWR PIPING TO (E) DOMESTIC WATER RISERS IN WALL AT CEILING.
10. (N) 2" V UP. CONNECT TO EXISTING VENT IN CEILING ABOVE WORK AREA.
11. CONNECT NEW 1/2" HW & 1-1/4" CW TO EXISTING DOMESTIC WATER LINES IN CEILING
12. CONNECT (N) 2" V TO EXISTING VENT IN CEILING ABOVE WORK AREA.
13. PROVIDE AND INSTALL NEW 1/2" HW & CW TO NEW MOP RECEPTOR FROM PIPING IN WALL.
14. PROVIDE NEW TRAPS AND ASSOCIATED PIPING TO NEW MOP RECEPTOR TO FOSTER CONNECTION WITH SANITARY PIPING IN WALL.
15. PROVIDE AND INSTALL NEW 1/2" CW TO NEW DRINKING FOUNTAIN/BOTTLE FILLER FROM DOMESTIC WATER PIPING IN WALL.
16. PROVIDE ASSOCIATED PIPING TO NEW DRINKING FOUNTAIN/BOTTLE FILLER TO FOSTER CONNECTION WITH SANITARY PIPING.

M/E/P Engineer:

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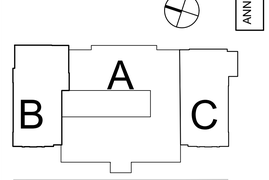
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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	12/03/25	DCA Submission

Revisions / Issues

DIGroupArchitecture
ARCHITECTURE FOR CHANGE
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2450 W Hunting Park Ave., Bldg 9 • Philadelphia, PA 19129-1302 • T: 215.634.3400

Richard D. Alderiso , AIA
NJ RA AI 15023, NY RA 027416, PA RA 405474

DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JBM
Checked By:

Sheet Name:
1ST FLOOR ENLARGED PLANS

Sheet No:
P-201
Sheet 0 of 000

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NOTES:

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DEMOLITION PLAN KEY NOTES:

1. REMOVE LAVATORY, TRIM AND HW, CW, PIPING, INCLUDING CONNECTIONS FROM SINK FAUCET AND APPURTENANCES. PIPING TO BE REMOVED IN WALL AND/OR FLOOR UNLESS OTHERWISE SHOWN. REMOVE EXISTING PIPING FOR ANY UNUSED CONNECTIONS IN WALL. TEMPORARILY CAP EXISTING RISER AT CEILING FOR CONNECTION TO (N) PIPING TO BE INSTALLED IN FIRST FLOOR TOILET ROOM.
2. REMOVE LAVATORY, WASTE AND VENT PIPING, INCLUDING TRAP AND ALL WASTE APPURTENANCES. PIPING TO BE REMOVED IN WALL AND/OR FLOOR UNLESS OTHERWISE SHOWN. TEMPORARILY CAP EXISTING RISER AT CEILING FOR CONNECTION TO (N) PIPING TO BE INSTALLED IN FIRST FLOOR TOILET ROOM.
3. REMOVE WATER CLOSET AND CW, PIPING IN WALL AND/OR CHASE UNLESS OTHERWISE SHOWN. TEMPORARILY CAP EXISTING RISER AT CEILING FOR CONNECTION TO (N) PIPING TO BE INSTALLED IN FIRST FLOOR TOILET ROOM.
4. REMOVE WATER CLOSET, WASTE AND VENT PIPING, INCLUDING ALL WASTE APPURTENANCES. PIPING TO BE REMOVED IN WALL AND/OR CHASE UNLESS OTHERWISE SHOWN. REMOVE ANY UNUSED PIPING FROM PREVIOUS BRANCH LOCATION.
5. REMOVE URINAL AND CW, PIPING IN WALL AND/OR CHASE UNLESS OTHERWISE SHOWN.
6. REMOVE URINAL, WASTE AND VENT PIPING, INCLUDING ALL WASTE APPURTENANCES. PIPING TO BE REMOVED IN WALL AND/OR CHASE UNLESS OTHERWISE SHOWN. REMOVE EXISTING PIPING IN WALL FOR URINAL.
7. REMOVE SINK, TRIM AND HW, CW, PIPING, INCLUDING CONNECTIONS FROM SINK FAUCET AND APPURTENANCES. PIPING TO BE REMOVED TO WALL AND/OR FLOOR UNLESS OTHERWISE SHOWN/STATED ON PLAN. CAP OR PLUG PIPING AT WALL FOR NEW INSTALLATION OF NEW SINK. PATCH WALL TO MATCH EXISTING.
8. REMOVE SINK, WASTE AND VENT PIPING, INCLUDING TRAP AND ALL WASTE APPURTENANCES. PIPING TO BE REMOVED TO WALL AND/OR FLOOR UNLESS OTHERWISE SHOWN. CAP OR PLUG PIPING AT WALL FOR NEW INSTALLATION OF NEW SINK. PATCH WALL TO MATCH EXISTING.

NEW WORK PLAN KEY NOTES:

1. PROVIDE AND INSTALL NEW 1/2" HW & CW TO NEW LAVATORY FROM NEW PIPING IN WALL.
2. PROVIDE NEW TRAPS AND ASSOCIATED PIPING TO NEW LAVATORY TO FOSTER CONNECTION WITH NEW SANITARY PIPING IN CHASE.
3. PROVIDE AND INSTALL NEW 1" CW TO NEW WATER CLOSET TO NEW DOMESTIC WATER PIPING IN WALL.
4. PROVIDE ASSOCIATED PIPING TO NEW WATER CLOSETS TO FOSTER CONNECTION WITH NEW SANITARY PIPING IN CHASE.
5. PROVIDE AND INSTALL NEW 3/4" CW TO NEW URINAL TO NEW DOMESTIC WATER PIPING IN WALL.
6. PROVIDE ASSOCIATED PIPING TO NEW URINAL TO FOSTER CONNECTION WITH NEW SANITARY PIPING.
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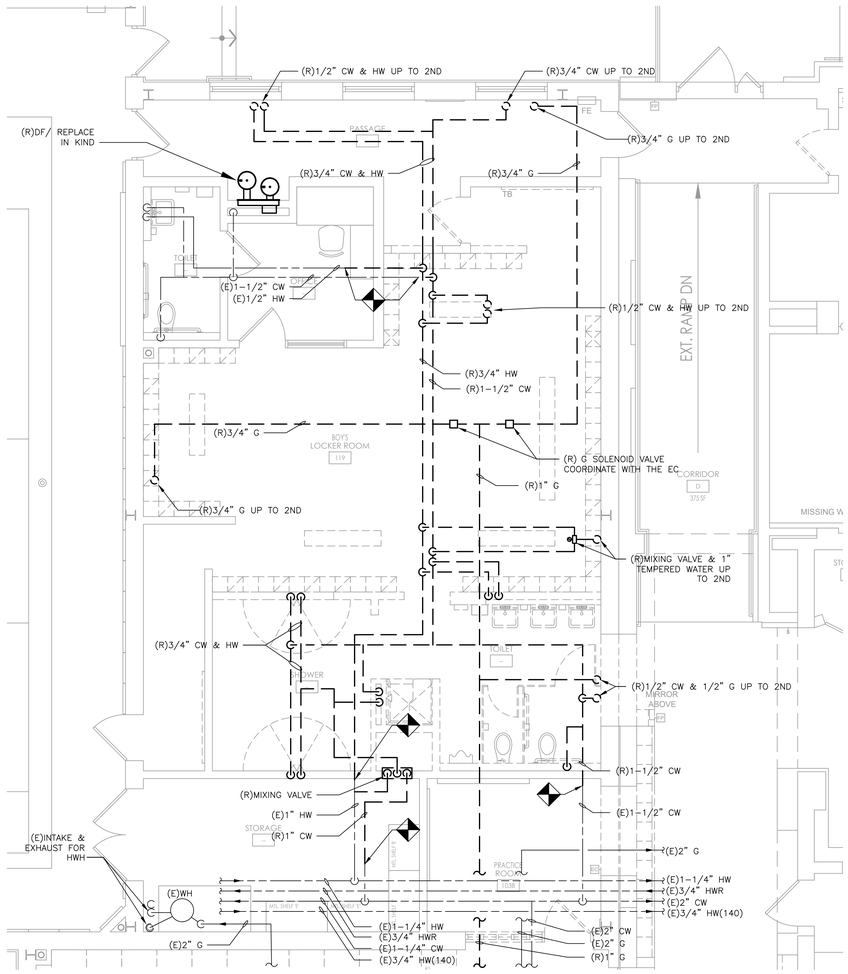
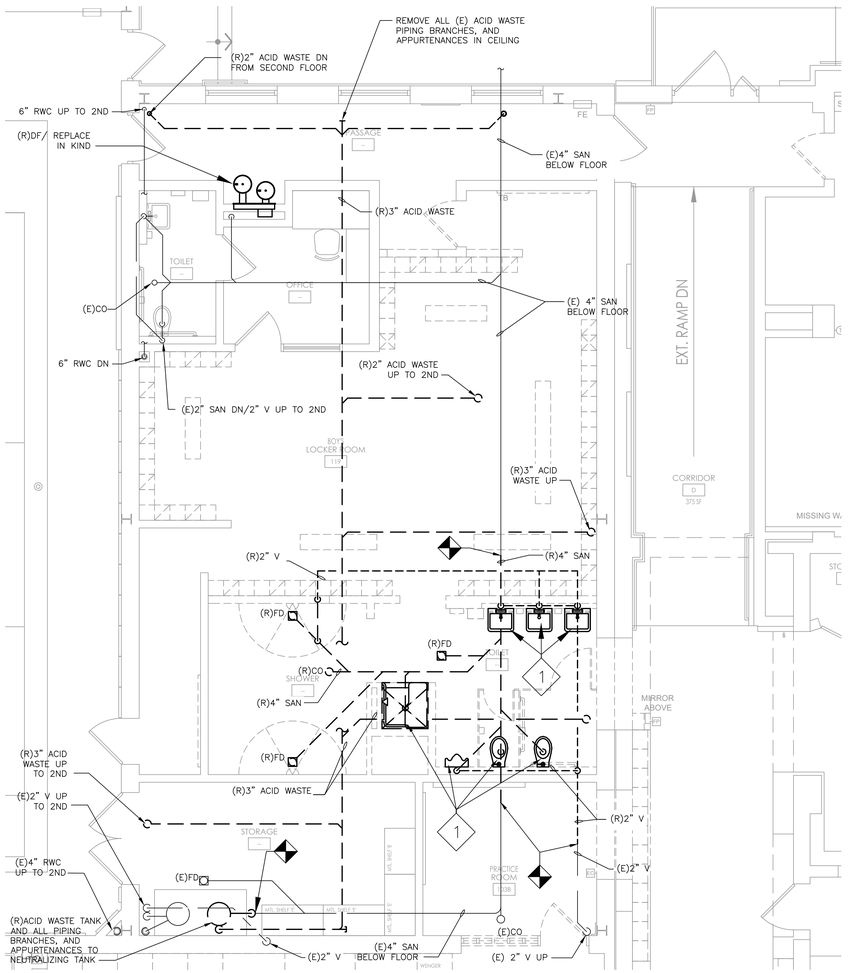
14. PROVIDE NEW TRAPS AND ASSOCIATED PIPING TO NEW MOP RECEPTOR TO FOSTER CONNECTION WITH SANITARY PIPING IN WALL.
15. PROVIDE AND INSTALL NEW 1/2" CW TO NEW DRINKING FOUNTAIN/BOTTLE FILLER FROM DOMESTIC WATER PIPING IN WALL.
16. PROVIDE ASSOCIATED PIPING TO NEW DRINKING FOUNTAIN/BOTTLE FILLER TO FOSTER CONNECTION WITH SANITARY PIPING.



PLUMBING DEMOLITION FIRST FLOOR PLAN – BOY'S LOCKER RM.119 – WATER/GAS

1 SCALE: 1/4"=1'0"



PLUMBING DEMOLITION FIRST FLOOR PLAN – BOY'S LOCKER RM.119 – WASTE/VENT

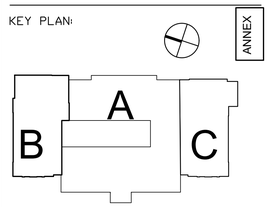
2 SCALE: 1/4"=1'0"

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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Glassboro, NJ 08028

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Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
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Date:
Drawn By: JBM
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Sheet Name:
1ST FLOOR ENLARGED PLANS

Sheet No:
P-202
Sheet 0 of 000

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3. PROVIDE AND INSTALL NEW 1" CW TO NEW WATER CLOSET TO NEW DOMESTIC WATER PIPING IN WALL.
4. PROVIDE ASSOCIATED PIPING TO NEW WATER CLOSETS TO FOSTER CONNECTION WITH NEW SANITARY PIPING IN CHASE.
5. PROVIDE AND INSTALL NEW 3/4" CW TO NEW URINAL TO NEW DOMESTIC WATER PIPING IN WALL.
6. PROVIDE ASSOCIATED PIPING TO NEW URINAL TO FOSTER CONNECTION WITH NEW SANITARY PIPING.
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13. PROVIDE AND INSTALL NEW 1/2" HW & CW TO NEW MOP RECEPTOR FROM PIPING IN WALL.
14. PROVIDE NEW TRAPS AND ASSOCIATED PIPING TO NEW MOP RECEPTOR TO FOSTER CONNECTION WITH SANITARY PIPING IN WALL.
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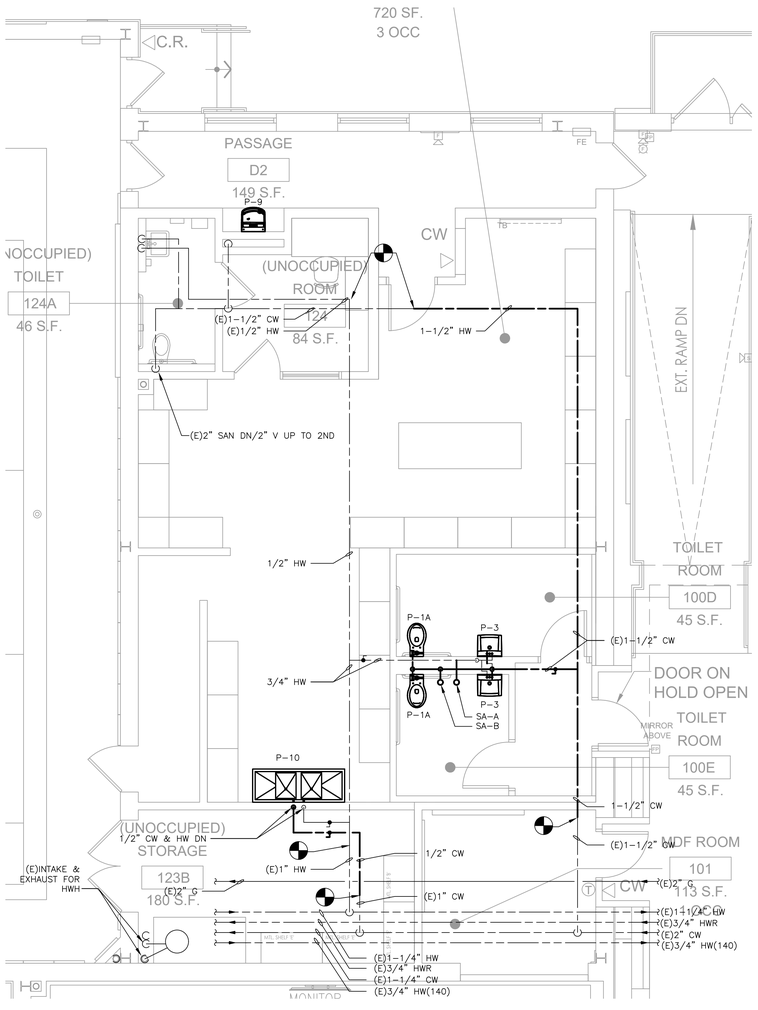
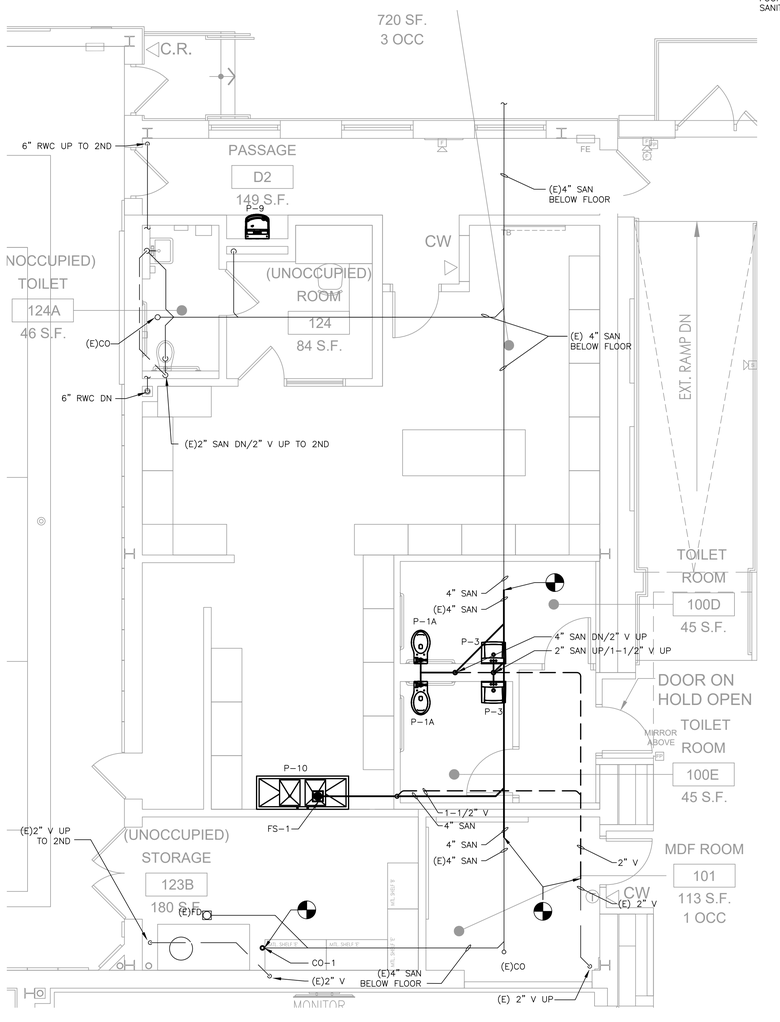


PLUMBING NEW WORK FIRST FLOOR PLAN – TOILET 100D AND 100E – DOMESTIC WATER

1 SCALE: 1/4"=1'0"



PLUMBING NEW WORK FIRST FLOOR PLAN – TOILET 100D AND 100E – WASTE/VENT

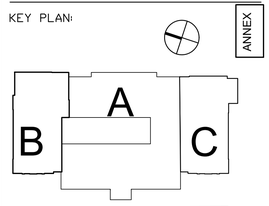
2 SCALE: 1/4"=1'0"

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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Drawing Information:
Project No: 25.024
Date:
Drawn By: JBM
Checked By:

Sheet Name:
1ST FLOOR ENLARGED PLANS

Sheet No:
P-203
Sheet 0 of 000

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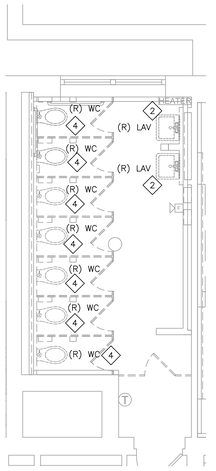
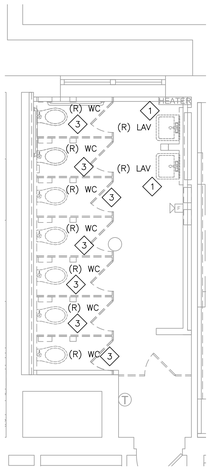


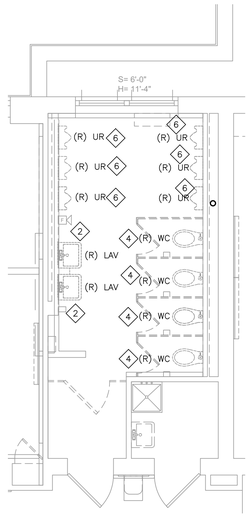
PLUMBING DEMOLITION SECOND FLOOR PLAN – GIRL'S TOILET RM.213 – WASTE/VENT (ALT 3)

1 SCALE: 1/4"=1'0"



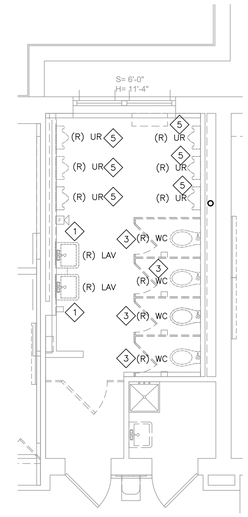
PLUMBING DEMOLITION SECOND FLOOR PLAN – GIRL'S TOILET RM.213 – DOMESTIC WATER (ALT 3)

2 SCALE: 1/4"=1'0"



PLUMBING DEMOLITION SECOND FLOOR PLAN – BOY'S TOILET 203 – WASTE/VENT (ALT 3)

5 SCALE: 1/4"=1'0"



PLUMBING DEMOLITION SECOND FLOOR PLAN – BOY'S TOILET 203 – DOMESTIC WATER (ALT 3)

6 SCALE: 1/4"=1'0"

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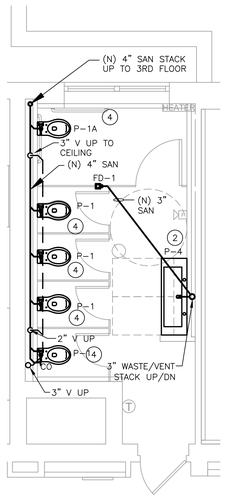
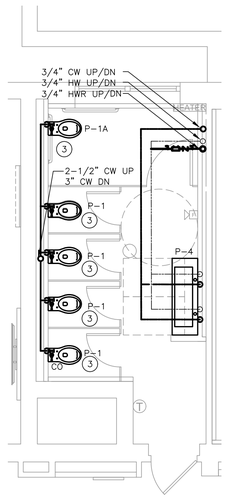


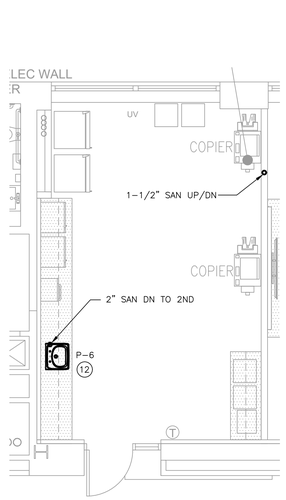
PLUMBING NEW WORK SECOND FLOOR PLAN – GIRL'S TOILET RM.213 – WASTE/VENT (ALT 3)

7 SCALE: 1/4"=1'0"



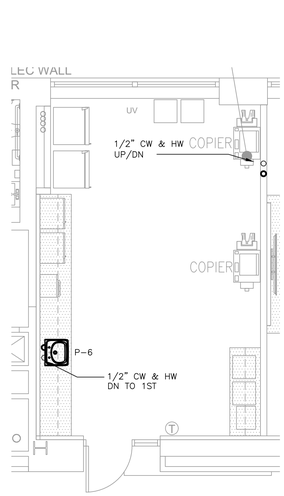
PLUMBING NEW WORK SECOND FLOOR PLAN – GIRL'S TOILET RM.213 – DOMESTIC WATER (ALT 3)

8 SCALE: 1/4"=1'0"



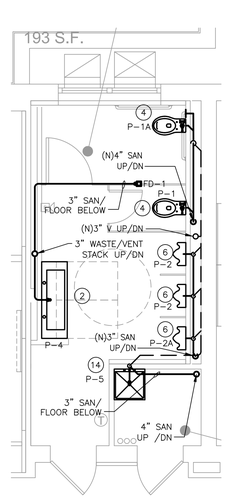
PLUMBING NEW WORK SECOND FLOOR PLAN – MAIL/COPY/PRINT 209 – WASTE/VENT

9 SCALE: 1/4"=1'0"



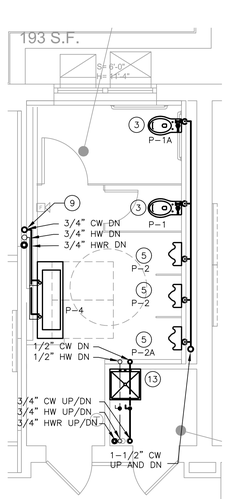
PLUMBING NEW WORK SECOND FLOOR PLAN – MAIL/COPY/PRINT 209 – DOMESTIC WATER

10 SCALE: 1/4"=1'0"



PLUMBING NEW WORK SECOND FLOOR PLAN – BOY'S TOILET 207B – WASTE/VENT (ALT 3)

11 SCALE: 1/4"=1'0"



PLUMBING NEW WORK SECOND FLOOR PLAN – BOY'S TOILET 207B – DOMESTIC WATER (ALT 3)

12 SCALE: 1/4"=1'0"

NOTES:

1. REFER TO DRAWING P-001 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. ALL EXPOSED PIPING IN RESTROOMS TO BE RELOCATED IN CHASE (TYP).
3. ALL WORK SHOWN IS TO BE NEW, UNLESS OTHERWISE NOTED.
4. ALL EXISTING FLOOR DRAINS IN RENOVATED RESTROOMS TO BE REPLACED.

NEW WORK PLAN KEY NOTES:

1. PROVIDE AND INSTALL NEW 1/2" HW & CW TO NEW LAVATORY FROM NEW PIPING IN WALL.
2. PROVIDE NEW TRAPS AND ASSOCIATED PIPING TO NEW LAVATORY TO FOSTER CONNECTION WITH NEW SANITARY PIPING IN CHASE.
3. PROVIDE AND INSTALL NEW 1" CW TO NEW WATER CLOSET TO NEW DOMESTIC WATER PIPING IN WALL.
4. PROVIDE ASSOCIATED PIPING TO NEW WATER CLOSETS TO FOSTER CONNECTION WITH NEW SANITARY PIPING IN WALL/CHASE.
5. PROVIDE AND INSTALL NEW 3/4" CW TO NEW URINAL TO NEW DOMESTIC WATER PIPING IN WALL.
6. PROVIDE ASSOCIATED PIPING TO NEW URINAL TO FOSTER CONNECTION WITH NEW SANITARY PIPING.
7. PROVIDE AND INSTALL NEW 1/2" HW & CW TO NEW SINK TO EXISTING DOMESTIC WATER IN WALL.
8. PROVIDE NEW TRAPS AND ASSOCIATED PIPING TO NEW SINK TO FOSTER CONNECTION WITH EXISTING SANITARY PIPING IN WALL.
9. CONNECT NEW DOMESTIC PIPING TO NEW WATER RISERS IN WALL.
10. (N) 2" V UP VENT IN THIRD FLOOR ABOVE WORK AREA.
11. CONNECT NEW 3/4" HW & 3/4" CW TO NEW DOMESTIC WATER LINES IN CEILING
12. PROVIDE AIR ADMITTANCE VALVE UNDER SINK.
13. PROVIDE AND INSTALL NEW 1/2" HW & CW TO NEW MOP RECEPTOR FROM PIPING IN WALL.
14. PROVIDE NEW TRAPS AND ASSOCIATED PIPING TO NEW MOP RECEPTOR TO FOSTER CONNECTION WITH SANITARY PIPING IN WALL.

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
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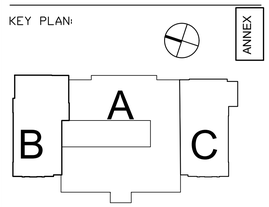
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



No.	Date	Description
	12/08/25	OUT TO BID
	12/03/25	DCA Submission

Revisions / Issues

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Richard D. Alderiso , AIA
NJ RA AI 15023, NY RA 027416, PA RA 405474

DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client:

Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:

Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:

Project No: 25.024
Date:
Drawn By: JBM
Checked By:

Sheet Name:

2ND FLOOR ENLARGED PLANS

Sheet No:

P-204

Sheet 0 of 000

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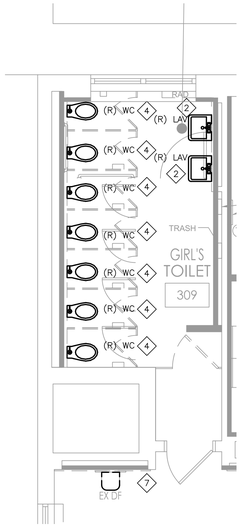
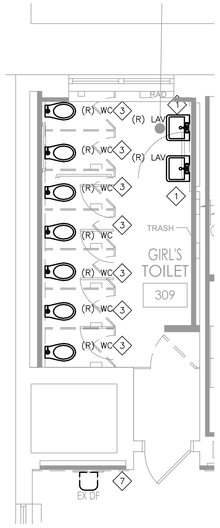
NOTES:

1. REFER TO DRAWING P-001 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. ALL EXPOSED PIPING IN RESTROOMS TO BE RELOCATED IN CHASE (TYP).
3. ALL WORK SHOWN IS TO BE NEW, UNLESS OTHERWISE NOTED.
4. ALL EXISTING FLOOR DRAINS IN RENOVATED RESTROOMS TO BE REPLACED.



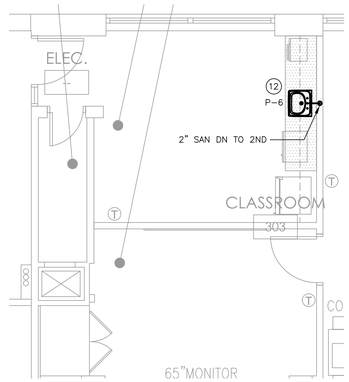
PLUMBING DEMOLITION THIRD FLOOR PLAN – GIRL'S TOILET RM. 309 – WASTE/VENT (ALT 3)

1 SCALE: 1/4"=1'0"



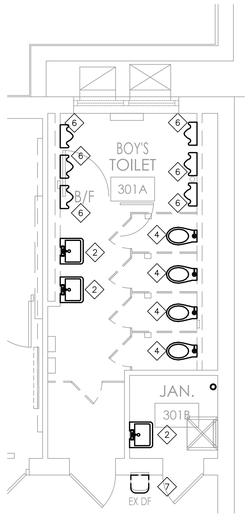
PLUMBING DEMOLITION THIRD FLOOR PLAN – GIRL'S TOILET RM. 309 – DOMESTIC WATER (ALT 3)

2 SCALE: 1/4"=1'0"



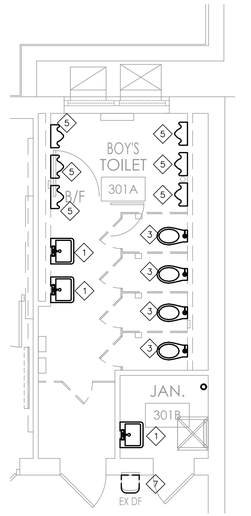
PLUMBING NEW WORK THIRD FLOOR PLAN – SHARED CAFE 303B – WASTE/VENT

9 SCALE: 1/4"=1'0"



PLUMBING DEMOLITION THIRD FLOOR PLAN – BOY'S TOILET 301 – WASTE/VENT (ALT 3)

3 SCALE: 1/4"=1'0"

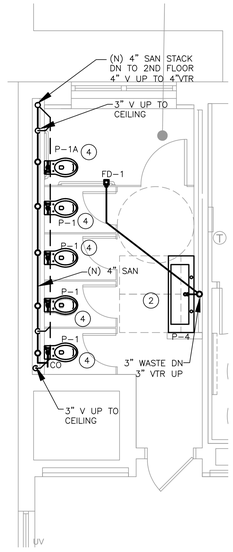


PLUMBING DEMOLITION THIRD FLOOR PLAN – BOY'S TOILET 301 – DOMESTIC WATER (ALT 3)

4 SCALE: 1/4"=1'0"

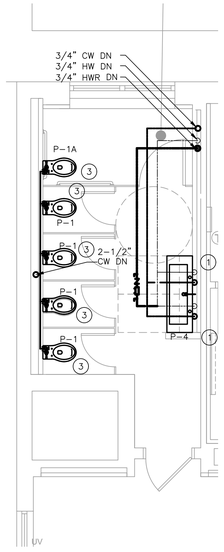
DEMOLITION PLAN KEY NOTES:

1. REMOVE SINK, TRIM AND HW, CW, PIPING, INCLUDING CONNECTIONS FROM SINK FAUCET AND APPURTENANCES. PIPING TO BE REMOVED FROM WALL AND/OR FLOOR UNLESS OTHERWISE SHOWN.
2. REMOVE SINK, WASTE AND VENT PIPING, INCLUDING TRAP AND ALL WASTE APPURTENANCES. PIPING TO BE REMOVED FROM WALL AND/OR FLOOR UNLESS OTHERWISE SHOWN.
3. REMOVE WATER CLOSET AND CW, PIPING TO WALL AND/OR CHASE UNLESS OTHERWISE SHOWN.
4. REMOVE WATER CLOSET, WASTE AND VENT PIPING, INCLUDING ALL WASTE APPURTENANCES. PIPING TO BE REMOVED FROM WALL AND/OR CHASE UNLESS OTHERWISE SHOWN. REMOVE ANY UNUSED PIPING FROM PREVIOUS BRANCH LOCATION.
5. REMOVE URINAL AND CW, PIPING FROM WALL AND/OR CHASE UNLESS OTHERWISE SHOWN.
6. REMOVE URINAL, WASTE AND VENT PIPING, INCLUDING ALL WASTE APPURTENANCES. PIPING TO BE REMOVED FROM WALL AND/OR CHASE UNLESS OTHERWISE SHOWN. REMOVE ANY UNUSED PIPING FROM PREVIOUS BRANCH LOCATION.
7. REMOVE DRINKING FOUNTAIN, WATER, WASTE AND VENT PIPING, INCLUDING TRAP AND ALL WASTE APPURTENANCES. PIPING TO BE REMOVED FROM WALL AND/OR FLOOR UNLESS OTHERWISE SHOWN.



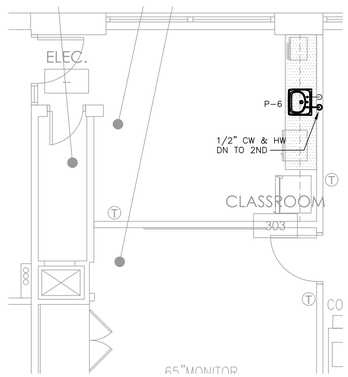
PLUMBING NEW WORK THIRD FLOOR PLAN – GIRL'S TOILET RM. 307 – WASTE/VENT (ALT 3)

5 SCALE: 1/4"=1'0"



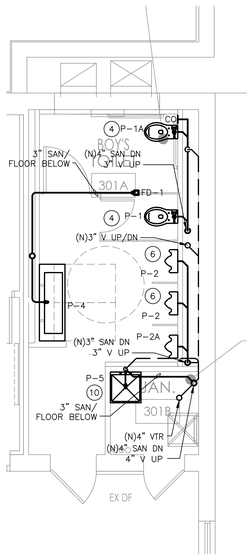
PLUMBING NEW WORK THIRD FLOOR PLAN – GIRL'S TOILET RM. 307 – DOMESTIC WATER (ALT 3)

6 SCALE: 1/4"=1'0"



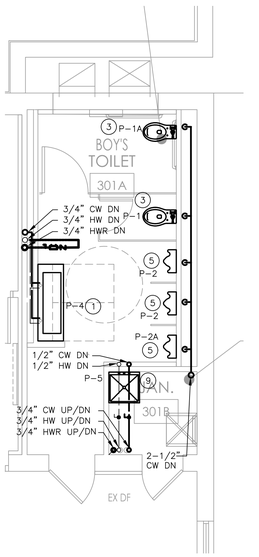
PLUMBING NEW WORK THIRD FLOOR PLAN – SHARED CAFE 303B – DOMESTIC WATER

10 SCALE: 1/4"=1'0"



PLUMBING NEW WORK THIRD FLOOR PLAN – BOY'S TOILET 300 – WASTE/VENT (ALT 3)

7 SCALE: 1/4"=1'0"



PLUMBING NEW WORK THIRD FLOOR PLAN – BOY'S TOILET 300 – DOMESTIC WATER (ALT 3)

8 SCALE: 1/4"=1'0"

NEW WORK PLAN KEY NOTES:

1. PROVIDE AND INSTALL NEW 1/2" HW & CW TO NEW LAVATORY TO NEW DOMESTIC WATER PIPING IN WALL.
2. PROVIDE NEW 1-1/4" TRAPS AND ASSOCIATED PIPING TO NEW LAVATORY TO FOSTER CONNECTION WITH NEW SANITARY PIPING IN CHASE.
3. PROVIDE AND INSTALL NEW 1" CW TO NEW WATER CLOSET TO NEW CW MAIN IN WALL.
4. PROVIDE ASSOCIATED 4" SAN PIPING TO NEW WATER CLOSETS TO FOSTER CONNECTION WITH NEW SANITARY MAIN PIPING IN CHASE.
5. PROVIDE AND INSTALL NEW 3/4" CW TO NEW URINAL WITH NEW CW PIPING IN CHASE.
6. PROVIDE ASSOCIATED 2" SAN PIPING TO NEW URINAL TO FOSTER CONNECTION WITH WITH NEW SANITARY MAIN PIPING IN CHASE.
7. PROVIDE AND INSTALL NEW 1/2" HW & CW TO NEW SINK TO NEW DOMESTIC WATER PIPING IN WALL.
8. PROVIDE NEW 1-1/4" TRAPS AND ASSOCIATED PIPING TO NEW SINK
9. PROVIDE AND INSTALL NEW 1/2" HW & CW TO NEW MOP RECEPTOR FROM PIPING IN WALL.
10. PROVIDE NEW TRAPS AND ASSOCIATED PIPING TO NEW MOP RECEPTOR TO FOSTER CONNECTION WITH SANITARY PIPING IN WALL.
11. PROVIDE AIR ADMITTANCE VALVE UNDER SINK.

M/E/P Engineer:
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Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
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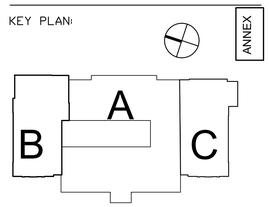
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JBM
Checked By:

Sheet Name:
3RD FLOOR ENLARGED PLANS

Sheet No:
P-205
Sheet 0 of 000

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DRAIN AND SPECIALTY SCHEDULE				
NO.	DESCRIPTION	MOUNTING	REMARKS	MANUFACTURER & MODEL NO.
FD-1	FLOOR DRAIN	FLOOR	–	JAY R. SMITH MODEL 2005Y-02-05NB FLOOR DRAIN, LIGHT DUTY. CAST IRON BODY, SEEPAGE FLANGE, ANCHOR FLANGE, CLAMPING DEVICE, BOTTOM OUTLET, NICKEL BRONZE TOP AND STRAINER, 5 INCH DIAMETER ROUND TOP. PROVIDE WITH CAST IRON P-TRAP WITH PROSET TRAP GUARD.
FD-2	FLOOR DRAIN	FLOOR	–	JAY R. SMITH MODEL 2350-MBG FLOOR DRAIN, LIGHT DUTY. CAST IRON BODY, SEEPAGE FLANGE, ANCHOR FLANGE, BOTTOM OUTLET, NICKEL BRONZE TOP, 8-1/2" DUCTILE IRON ADJUSTABLE HEIGHT "SURE SET" STRAINER WITH SEDIMENT BUCKET.. PROVIDE WITH CAST IRON P-TRAP WITH PROSET TRAP GUARD.
FS-1	FLOOR SINK	FLOOR	–	JAY R. SMITH MODEL 325-Y04 SERIES. ACID RESISTANT ENAMEL FLOOR SINK WITH ANTI-SPLASH CHROME STRAINER AND 1/2 GRATE.

DOMESTIC WATER HEATER SCHEDULE											
WH NO.	AREA SERVED	THERMAL EFF.	CAPACITY GALLONS STORAGE	GP/H RECOVERY @100°	CFH	VOLTS	PHASE	CYCLE	AMPS	MAX DIM	AO SMITH MODEL NO.
HWH-1	LOCKER ROOM 122	98	100	178	150	120	1	60	5	27.75"x76.5"	BTH-150(A)

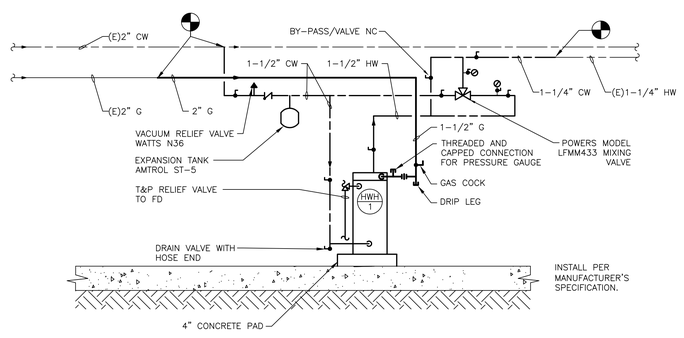
PRESSURE REGULATOR SCHEDULE								
UNIT TAG	UNIT SERVED	MFR.	MODEL	SIZE (INCHES)	LOAD (CFH)	MAX. INLET PRESSURE	OUTLET PRESSURE	SPRING RANGE
PRV-1	GENERATOR	MAXITROL	325-9L	1-1/2"	1915	2 PSI	7 IN W.C.	7-11 IN W.C.
PRV-2	DOAS-1	MAXITROL	325-5	3/4"	270	2 PSI	11 IN W.C.	7-11 IN W.C.
PRV-3	RTU-1	MAXITROL	325-5	3/4"	150	2 PSI	11 IN W.C.	7-11 IN W.C.
PRV-4	DOAS-2	MAXITROL	325-5	3/4"	405	2 PSI	11 IN W.C.	7-11 IN W.C.
PRV-5	DOAS-3	MAXITROL	325-5	3/4"	100	2 PSI	11 IN W.C.	7-11 IN W.C.
PRV-6	RTU-2	MAXITROL	325-5	3/4"	405	2 PSI	11 IN W.C.	7-11 IN W.C.
PRV-7	RTU-3	MAXITROL	325-5	3/4"	405	2 PSI	11 IN W.C.	4-14 IN W.C.
PRV-8	RTU-4	MAXITROL	325-5	3/4"	405	2 PSI	11 IN W.C.	4-14 IN W.C.
PRV-9	RTU-5	MAXITROL	325-5	3/4"	150	2 PSI	11 IN W.C.	4-14 IN W.C.
PRV-10	RTU-6	MAXITROL	325-5	3/4"	150	2 PSI	11 IN W.C.	4-14 IN W.C.
PRV-11	RTU-7	MAXITROL	325-5	3/4"	150	2 PSI	11 IN W.C.	4-14 IN W.C.
PRV-12	RTU-8	MAXITROL	325-5	3/4"	270	2 PSI	11 IN W.C.	4-14 IN W.C.

NOTE: PROVIDE 13A25 VENT PROTECTOR FOR REGULATORS. INTERIOR REGULATORS TO BE VENTED TO THE EXTERIOR

SHOCK ABSORBER SCHEDULE	
TAG NO.	FIXTURE UNITS*
SA-A	1 – 11
SA-B	12 – 32
SA-C	33 – 60
SA-D	61– 113
SA-E	114 – 154

* FIXTURE UNIT VALUES ARE BASED ON THE PLUMBING DRAINAGE INSTITUTE

PLUMBING FIXTURE SCHEDULE									
NO.	DESCRIPTION	MOUNTING	TRAP	DRAIN	VENT	CW	HW	REMARKS	MANUFACTURER & MODEL NO.
P-1	WATER CLOSET	WALL	INTEGRAL	4"	2"	1-1/4"	–		AMERICAN STANDARD AFWALL MILLENIUM 1.6 GPF FLOWISE MODEL 3351.101 WITH ELONGATED SEAT. CHURCH 295SSCT 047 HEAVY DUTY OPEN FRONT SEAT, COLOR BLACK, LESS COVER. SLOAN ROYAL ROYAL 111 SFSM-1.6-HW
P-1A	WATER CLOSET	WALL	INTEGRAL	4"	2"	1-1/4"	–	ADA COMPLIANT	AMERICAN STANDARD AFWALL MILLENIUM 1.6 GPF FLOWISE MODEL 3351.101 WITH ELONGATED SEAT. CHURCH 295SSCT 047 HEAVY DUTY OPEN FRONT SEAT, COLOR BLACK, LESS COVER. SLOAN ROYAL ROYAL 111 SFSM-1.6-HW
P-2	URINAL	WALL	INTEGRAL	2"	1-1/2"	1"	–		AMERICAN STANDARD WASHBROOK FLOWISE MODEL 6590.010, WITH WALL HANGERS SLOAN ROYAL FLUSH VALVE MODEL 186-1.0 STAINLESS STEEL STRAINER 047068-0070A JR SMITH #0637 URINAL WALL SUPPORT WITH BEARING PLATE & STUDS
P-2A	URINAL	WALL	INTEGRAL	2"	1-1/2"	1"	–	ADA COMPLIANT	AMERICAN STANDARD WASHBROOK FLOWISE MODEL 6590.010, WITH WALL HANGERS SLOAN ROYAL FLUSH VALVE MODEL186-1.0 STAINLESS STEEL STRAINER 047068-0070A JR SMITH #0637 URINAL WALL SUPPORT WITH BEARING PLATE & STUDS
P-3	LAVATORY	WALL	"P"	1-1/4"	1-1/4"	1/2"	1/2"	ADA (INSULATE SUPPLIES AND DRAIN)	AMERICAN STANDARD LUCERNE MODEL 0355.012, HOLES ON 4" CENTERS CHICAGO FAUCETS MODEL 802-E70ABCP, 0.5 GPM AERATOR, LEVER HANDLES. LONG LAV SUPPLIES W/ ANGLE STOP, GRID DRAIN & TAILPIECE, TRAP & ESCUTCHEONS, PLUMBEREX SPECIALTY PRODUCTS HANDY-SHIELD & COVERS FOR SUPPLY AND DRAIN PIPING. JR SMITH MODEL 0700-27-M31 CONCEALED, 1"x3" STEEL TUBE SUPPORTS. PROVIDE WITH WATTS LSUFG-B MIXING VALVE OR OTHER ASSE 1070 APPROVED VALVE.
P-4	LAVATORY	WALL	"P"	1-1/4"	1-1/4"	1/2"	1/2"	ADA/ TROUGH SINK (INSULATE SUPPLIES AND DRAIN)	SLOAN SLOANSTONE SOLID SURFACE 2-STATION SINK ELGR-82000. CHICAGO MANUAL FAUCET 410-E2805ABCP. TRAP & ESCUTCHEONS, PLUMBEREX SPECIALTY PRODUCTS HANDY-SHIELD & COVERS FOR SUPPLY AND DRAIN PIPING. PROVIDE WITH WATTS LSUFG-B MIXING VALVE OR OTHER ASSE 1070 APPROVED VALVE.
P-5	MOP RECEPTOR	FLOOR	"P"	3"	2"	3/4"	3/4"		FIAT #MSB-2424 BASIN FIAT #832AA – HOSE & BRACKET FIAT #1239BB – BUMPERGUARD FIAT #1453 BB – FLAT STRAINER FIAT #889CC – MOP BRACKET CHICAGO #540-LD-897S-WXF FAUCET
P-6	KITCHEN SINK	SINGLE BOWL COUNTERTOP	"P"	3"	2"	1/2"	1/2"		ELKAY LUSTERTONE CLASSIC STAINLESS STEEL SINK, MODEL LRAD191855 WITH CHICAGO FAUCET MODEL 895-317GN2AE35ABCP FAUCET COMPLETE W/4" FIXED CENTERS AND 1.5 GPM AERATOR 12" LONG LAV SUPPLIES W/ ANGLE STOP, ELKAY LKPD1 PERFECT DRAIN & TAILPIECE, TRAP & ESCUTCHEONS, LUMBEREX SPECIALTY PRODUCTS HANDY-SHIELD & COVERS.
P-7	KITCHEN SINK	DOUBLE BOWL COUNTERTOP	"P"	3"	2"	1/2"	1/2"		ELKAY LUSTERTONE CLASSIC STAINLESS STEEL 33" X 22" X 8-1/8" EQUAL DOUBLE BOWL DROP-IN SINK MODEL(S) LR3322 WITH CHICAGO FAUCET MODEL 895-317GN2AE35ABCP FAUCET COMPLETE W/4" FIXED CENTERS AND 1.5 GPM AERATOR 12" LONG LAV SUPPLIES W/ ANGLE STOP, ELKAY LKPD1 PERFECT DRAIN & TAILPIECE, TRAP & ESCUTCHEONS, LUMBEREX SPECIALTY PRODUCTS HANDY-SHIELD & COVERS.
P-9	WATER COOLER/ BOTTLE FILLER	WALL	"P"	1-1/2"	1-1/2"	1/2"	–		ELKAY ENHANCED EZH2O® BOTTLE FILLING STATION & SINGLE ADA COOLER FILTERED REFRIGERATED STAINLESS STEEL MODEL LMABF8WSLK. CHILLING CAPACITY OF 8.0 GPH (GALLONS PER HOUR) OF 50° F DRINKING WATER, BASED ON 80° F INLET WATER AND 90° F AMBIENT. FEATURES SHALL INCLUDE ANTIMICROBIAL*, AUTOMATIC FILTER STATUS RESET, ENERGY SAVINGS, FILTERED, GREEN TICKER™, HANDS FREE, LAMINAR FLOW, REAL DRAIN, VISUAL FILTER MONITOR. FURNISHED WITH FLEXI-GUARD ® SAFETY BUBBLER. ELECTRONIC BOTTLE FILLER SENSOR WITH ELECTRONIC FRONT AND SIDE BUBBLER PUSHBAR ACTIVATION. PRODUCT SHALL BE WALL MOUNT (ON WALL), FOR INDOOR APPLICATIONS, SERVING 1 STATION(S). UNIT SHALL BE CERTIFIED TO UL 399 AND CAN/CSA C22.2 NO. 120.
P-10	2 COMPARTMENT SINK	FLOOR	–	1-1/2"	1-1/2"	1/2"	–	INDIRECT WASTE	JOHN BOOS 2 COMPARTMENT SINK WITH 12" DEEP BOWLS. BOWLS AND TOP: 16 GA TYPE 300 SS WITH #4 POLISH, SATIN FINSH, LEGS: 1-5/8" ROUND O.D. SS, BRACING: 1-1/4" ROUND O.D. SS, GUSSETS: SS, FEET: 1" ADJUSTABLE SS BULLET FEET. 8" ON-CENTER, 1" FAUCET HOLES IN BACKSPLASH, SOLID SS FRONT PANEL, TYPE 300. 3-1/2" DIAMETER DIE STAMPED OPENING FOR DRAINAGE. JOHN BOOS PBF-SLF HEAVY DUTY FAUCET WITH HEAVY DUTY DOUBLE SEAT 1/4 TURN CERAMIC CARTRIDGES, COLOR CODED HOT & COLD INDICATORS, DOUBLE O-RING SPOUT SEAL, HIGH POLISHED TRIPLE DIPPED CHROME FINISH, INTEGRAL CHECK VALVE, LEAD FREE COMPLIANT.



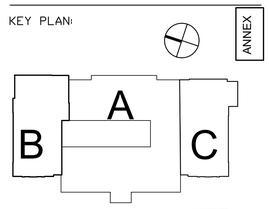
HWH PIPING DETAIL

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



No.	Date	Description
	12/08/25	OUT TO BID
	12/03/25	DCA Submission

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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JBM
Checked By:

Sheet Name:
SCHEDULES AND DETAILS

Sheet No:
P-401
Sheet 0 of 000

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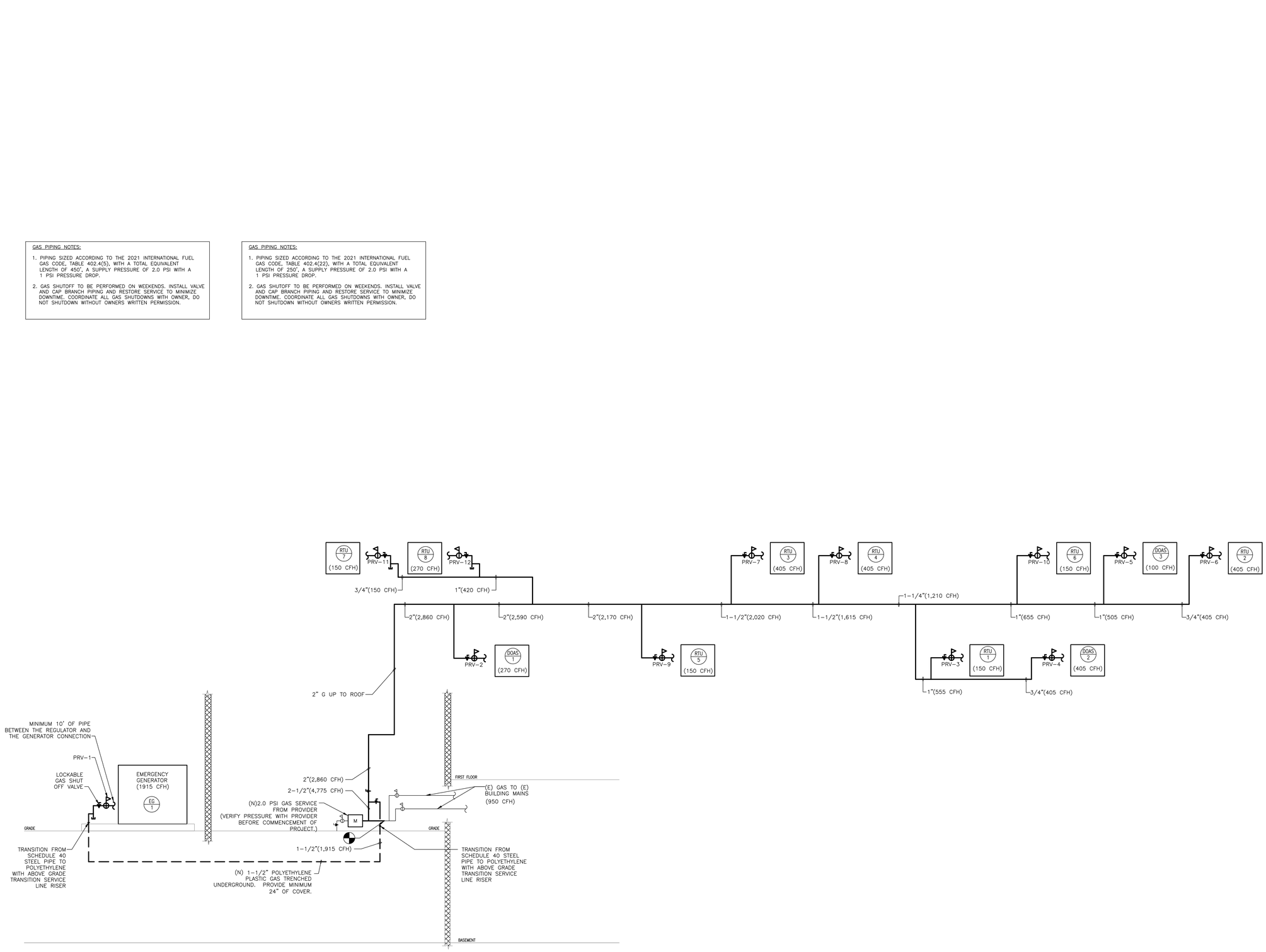
GAS PIPING NOTES:

1. PIPING SIZED ACCORDING TO THE 2021 INTERNATIONAL FUEL GAS CODE, TABLE 402.4(5), WITH A TOTAL EQUIVALENT LENGTH OF 450', A SUPPLY PRESSURE OF 2.0 PSI WITH A 1 PSI PRESSURE DROP.
2. GAS SHUTOFF TO BE PERFORMED ON WEEKENDS. INSTALL VALVE AND CAP BRANCH PIPING AND RESTORE SERVICE TO MINIMIZE DOWNTIME. COORDINATE ALL GAS SHUTDOWNS WITH OWNER, DO NOT SHUTDOWN WITHOUT OWNERS WRITTEN PERMISSION.

GAS PIPING NOTES:

1. PIPING SIZED ACCORDING TO THE 2021 INTERNATIONAL FUEL GAS CODE, TABLE 402.4(22), WITH A TOTAL EQUIVALENT LENGTH OF 250', A SUPPLY PRESSURE OF 2.0 PSI WITH A 1 PSI PRESSURE DROP.
2. GAS SHUTOFF TO BE PERFORMED ON WEEKENDS. INSTALL VALVE AND CAP BRANCH PIPING AND RESTORE SERVICE TO MINIMIZE DOWNTIME. COORDINATE ALL GAS SHUTDOWNS WITH OWNER, DO NOT SHUTDOWN WITHOUT OWNERS WRITTEN PERMISSION.



1 GAS RISER DIAGRAM
SCALE: NTS

M/E/P Engineer:

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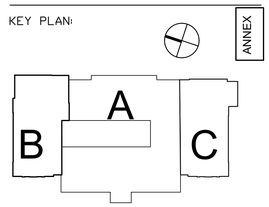
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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Drawing Information:
Project No: 25.024
Date:
Drawn By: JBM
Checked By:

Sheet Name:
GAS RISER DIAGRAM

Sheet No:
P-402
Sheet 0 of 000

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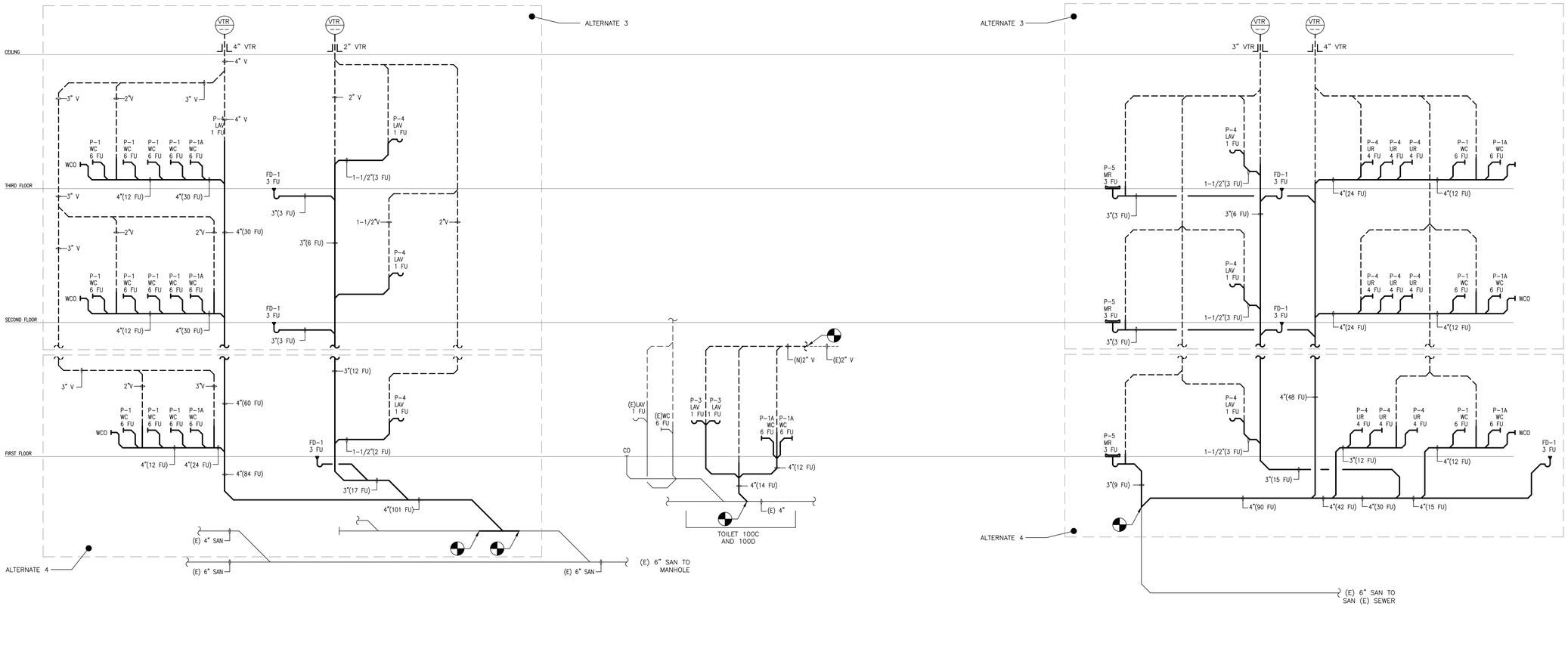

1 SANITARY RISER DIAGRAM
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NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

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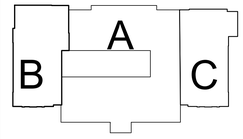

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Drawing Information:
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Date:
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Checked By:

Sheet Name:
SANITARY RISER DIAGRAM

Sheet No:
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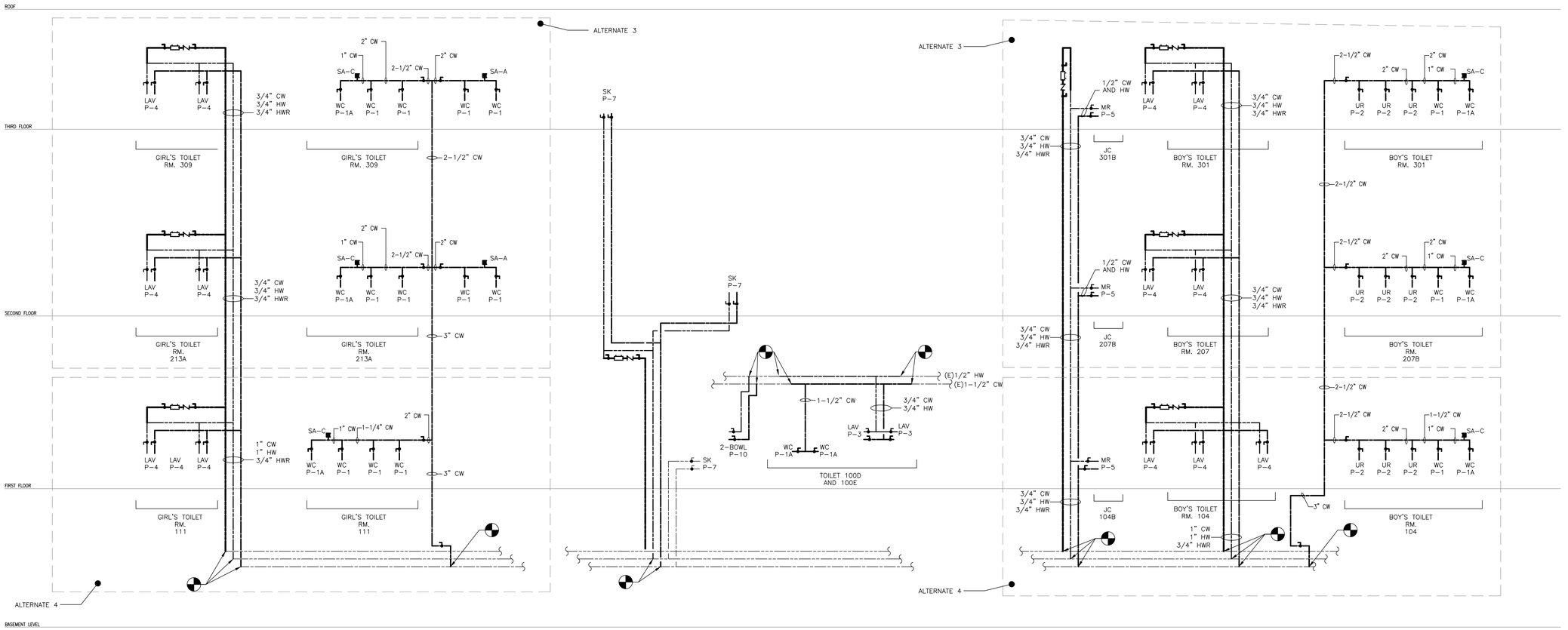

1 DOMESTIC WATER RISER DIAGRAM
SCALE: NTS

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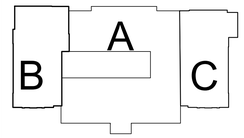

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DOMESTIC RISER DIAGRAM

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ABBREVIATIONS

(A)	ABANDON	DTS	DUAL TEMPERATURE WATER SUPPLY	INCL	INCLUD(E), (ING)	RP	RADIANT PANEL
AAV	AUTOMATIC AIR VENT	DWG	DRAWING	INSL	INSULAT(E), (ED), (ION)	RPM	REVOLUTIONS PER MINUTE
AC	AIR CONDITIONER	(E)	EXISTING	INT	INTERIOR	RS	REFRIGERANT SUCTION
ABS	ABSOLUTE	EA	EXHAUST AIR	I/O	INPUT/OUTPUT	RTU	ROOFTOP UNIT
ABV	ABOVE	EAT	ENTERING AIR TEMPERATURE	IPS	INTERNATIONAL PIPE STANDARD	RV	RELIEF VALVE
AD	ACCESS DOOR	EBH	ELECTRIC BASEBOARD HEATER	KW	KILOWATT	SA	SUPPLY AIR
AFF	ABOVE FINISHED FLOOR	EC	ELECTRICAL CONTRACTOR	L	LOUVER OR LENGTH	SD	SUPPLY DIFFUSER
AHU	AIR HANDLING UNIT	EER	ENERGY EFFICIENCY RATIO	LAT	LEAVING AIR TEMP	SEC	SECONDS
AI	ANALOG INPUT	EF	EXHAUST FAN	LB	POUND	SF	SUPPLY FAN
AO	ANALOG OUTPUT	EG	EXHAUST AIR GRILLE	LD	LINEAR DIFFUSER	SG	SUPPLY GRILLE
AP	ACCESS PANEL	EHC	ELECTRIC HEATING COIL	LF	LINEAR FEET	SP	STATIC PRESSURE
APD	AIR PRESSURE DROP	ELEC	ELECTRICAL	LPG	LIQUEFIED PETROLEUM GAS	SQ	SQUARE
ATC	AUTOMATIC TEMPERATURE CONTROL	ELEV	ELEVATION	LPR	LOW PRESSURE STEAM CONDENSATE RETURN	SR	SUPPLY REGISTER
ATM	ATMOSPHERE	ENT	ENTERING	LPS	LOW PRESSURE STEAM	STC	STEAM CONDENSATE
AS	AIR SEPARATOR	EQUIP	EQUIPMENT	LVG	LEAVING	STM	STEAM
AVG	AVERAGE	ER	EXHAUST REGISTER	LVR	LOUVER	TDH	TOTAL DYNAMIC HEAD
AWT	AVERAGE WATER TEMPERATURE	ERU	ENERGY RECOVERY UNIT	LWT	LEAVING WATER TEMP	TDV	TRIPLE DUTY VALVE
BBD	BOILER BLOWDOWN DRAIN	ESP	EXTERNAL STATIC PRESSURE	MAU	MAKEUP AIR UNIT	TG	TRANSFER GRILLE
BCU	BLOWER COIL UNIT	ET	EXPANSION TANK	MAV	MANUAL AIR VENT	TSP	TOTAL STATIC PRESSURE
BDD	BACK DRAFT DAMPER	EWH	ELECTRIC WALL HEATER	MAX	MAXIMUM	TYP	TYPICAL
BFP	BACKFLOW PREVENTER	EWT	ENTERING WATER TEMPERATURE	MBH	1,000 BTUH	UC	UNDER CUT
BFW	BOILER FEEDWATER	EXP	EXPANSION	MC	MECHANICAL CONTRACTOR	UH	UNIT HEATER
BFWP	BOILER FEEDWATER PUMP	F	FAHRENHEIT	MECH	MECHANICAL	UNO	UNLESS NOTED OTHERWISE
BI	BINARY INPUT	FA	FACE AREA	MIN	MINIMUM	UV	UNIT VENTILATOR
BLR	BOILER	FBD	FACE & BYPASS DAMPER	MISC	MISCELLANEOUS	VA	VOLT AMPERE
BLW	BELOW	F&T	FLOAT & THERMOSTATIC	(N)	NEW	VAV	VARIABLE AIR VOLUME
BNR	BURNER	FC	FLEXIBLE CONNECTION	NC	NOISE CRITERIA	VB	VACUUM BREAKER
BO	BINARY OUTPUT	FCU	FAN COIL UNIT	NK	NECK	VD	VOLUME DAMPER
BOD	BOTTOM OF DUCT	FD	FIRE DAMPER	NTS	NOT TO SCALE	VEL	VELOCITY
BOP	BOTTOM OF PIPE	FF	FINAL FILTER	OA	OUTSIDE AIR	VFD	VARIABLE FREQUENCY DRIVE
BTU	BRITISH THERMAL UNIT	FIN	FINISH	OAD	OUTSIDE AIR DAMPER	VP	VELOCITY PRESSURE
BTUH	BTU PER HOUR	FLR	FLOOR	OAI	OUTSIDE AIR INTAKE	W	WIDTH
BYP	BYPASS	FO	FUEL OIL	OAT	OUTSIDE AIR TEMPERATURE	W/	WITH
C	CONVECTOR	FOP	FUEL OIL PUMP	OD	OUTSIDE DIMENSIONS OR OUTSIDE DIAMETER	WB	WET BULB
CAP	CAPACITY	FOR	FUEL OIL RETURN	OED	OPEN END DUCT	W/O	WITHOUT
CAV	CONSTANT AIR VOLUME	FOS	FUEL OIL SUPPLY	OS&Y	OUTSIDE SCREW & YOKE	WC	WATER COLUMN
CC	COOLING COIL	FOV	FUEL OIL VENT	P	PUMP	WH	WATER HEATER
CD	CONDENSATE DRAIN	FTR	FINNED TUBE RADIATION	PD	PRESSURE DROP	WMS	WIRE MESH SCREEN
CFM	CUBIC FEET PER MINUTE	G	NATURAL GAS	PF	PRE FILTER	WT	WEIGHT
CH	CHILLER	GAL	GALLON	PH	PHASE		
CHWP	CHILLED WATER PUMP	GC	GENERAL CONTRACTOR	PHC	PREHEAT COIL		
CHWR	CHILLED WATER RETURN	GPH	GALLONS PER HOUR	PHR	PREHEAT WATER RETURN		
CHWS	CHILLED WATER SUPPLY	GPM	GALLONS PER MINUTE	PHS	PREHEAT WATER SUPPLY		
CKT	CIRCUIT	GRV	GRAVITY RELIEF VENTILATOR	PLMB	PLUMBING		
CLG	CEILING	H	HUMIDIFIER	PPM	PARTS PER MILLION		
CONC	CONCRETE	HC	HEATING COIL	PRV	PRESSURE REDUCING VALVE		
COP	COEFFICIENT OF PERFORMANCE	HOA	HAND OFF AUTO	PSI	POUNDS PER SQUARE INCH		
CP	CONDENSATE PUMP	HORIZ	HORIZONTAL	PSIA	POUNDS PER SQUARE INCH ABSOLUTE		
CRP	CONDENSATE RETURN PUMP	HP	HEAT PUMP OR HORSEPOWER	PSIG	POUNDS PER SQUARE INCH GAUGE		
CT	COOLING TOWER	HPLR	HEAT PUMP WATER LOOP RETURN	PTAC	PACKAGED TERMINAL AIR CONDITIONER		
CU	CONDENSING UNIT	HPLS	HEAT PUMP WATER LOOP SUPPLY	PUH	PROPELLER UNIT HEATER		
CUH	CABINET UNIT HEATER	HPR	HIGH PRESSURE STEAM CONDENSATE RETURN	PVC	POLYVINYL CHLORIDE		
CW	COLD WATER (DOMESTIC)	HPS	HIGH PRESSURE STEAM	QTY	QUANTITY		
CWP	CONDENSER WATER PUMP	HR	HOUR	(R)	REMOVE		
CWR	CONDENSER WATER RETURN	HT	HEIGHT	RA	RETURN AIR		
CWS	CONDENSER WATER SUPPLY	HW	HOT WATER	RAG	RELIEF AIR GRILLE		
DB	DRY BULB TEMPERATURE	HWP	HOT WATER PUMP	RAV	RELIEF AIR VENT		
DDC	DIRECT DIGITAL CONTROL	HWR	HEATING HOT WATER RETURN	RF	RETURN FAN		
DEG	DEGREE	HWS	HEATING HOT WATER SUPPLY	RG	RETURN GRILLE		
DIA	DIAMETER	HZ	HERTZ	RH	RELATIVE HUMIDITY		
DN	DOWN	ID	INSIDE DIMENSIONS OR INSIDE DIAMETER	RHR	REHEAT WATER RETURN		
DS	DUCT SILENCER	IL	INTERNALLY LINED	RHS	REHEAT WATER SUPPLY		
DTR	DUAL TEMPERATURE WATER RETURN	IN	INCHES	RL	REFRIGERANT LIQUID		

GENERAL NOTES

1. THE FOLLOWING NOTES APPLY TO ALL MECHANICAL DRAWINGS.
2. ALL WORK SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE 2021 AND ALL OTHER APPLICABLE CODES AND STANDARDS.
3. MECHANICAL CONTRACTOR SHALL ENSURE 36" MIN. CLEARANCE IN FRONT OF ALL ACCESS PANELS.
4. ALL DRAWINGS ARE DIAGRAMMATIC. MECHANICAL CONTRACTOR SHALL CAREFULLY EXAMINE EXISTING CONDITIONS PRIOR TO STARTING WORK.
5. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS, SIZES, CLEARANCES AND LOCATIONS PRIOR TO THE START OF CONSTRUCTION. WHEN CONFLICTS ARISE, MAKE ANY NECESSARY CHANGES TO ROUTING OF DUCTWORK AND PIPING AT NO ADDITIONAL COST.
6. ALL FLOOR MOUNTED HVAC EQUIPMENT SHALL BE INSTALLED ON 4" HIGH CONCRETE HOUSEKEEPING PADS PROVIDED BY THE MECHANICAL CONTRACTOR.
7. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING COORDINATION DRAWINGS SHOWING ALL TRADES. NO EQUIPMENT, PIPING, DUCTWORK, ETC. IS TO BE INSTALLED WITHOUT APPROVAL BY THE ENGINEER.
8. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
9. SCHEDULES DO NOT REPRESENT EQUIPMENT QUANTITIES. REFER TO THE PLANS FOR ACTUAL QUANTITIES.
10. DUCT SIZES SHOWN ON DRAWINGS REFER TO INSIDE CLEAR DIMENSIONS UNLESS OTHERWISE NOTED.
11. MECHANICAL CONTRACTOR SHALL PROVIDE FLEXIBLE CONNECTIONS AT ALL DUCTWORK TO EQUIPMENT CONNECTIONS.
12. PROVIDE SUPPLY, RETURN AND EXHAUST DUCTWORK TRANSITIONS AS REQUIRED BY THE PLANS, SPECIFICATIONS, AND ACTUAL JOB CONDITIONS.
13. COORDINATE ALL THERMOSTAT/TEMPERATURE SENSOR LOCATIONS WITH THE ARCHITECT PRIOR TO INSTALLATION.
14. MECHANICAL CONTRACTOR SHALL PROVIDE "UL" LISTED THROUGH PENETRATION FIRESTOP SYSTEMS WITH FIREPROOF SLEEVES AT ALL NEW PIPING PENETRATIONS THRU FIRE RATED WALLS AND FLOORS.
15. INDICATED DUCT AND PIPING ARE DIAGRAMMATIC. MECHANICAL CONTRACTOR SHALL DETERMINE ALL REQUIRED OFFSETS AND DIRECTION CHANGES BEFORE FABRICATION AND INSTALLATION TO AVOID INTERFERENCE WITH OTHER TRADES.
16. UNLESS OTHERWISE NOTED, ALL DUCTWORK AND PIPING IS OVERHEAD, TIGHT TO UNDERSIDE OF SLAB/STEEL, WITH SPACE FOR INSULATION.
17. MANUFACTURERS AND MODEL NUMBERS INDICATED ON THE PLANS, SCHEDULES AND SKETCHES ARE PROVIDED AS A BASIS OF DESIGN ONLY. BIDDERS SHALL REFER TO THE SPECIFICATIONS FOR A LISTING OF MULTIPLE ACCEPTABLE MANUFACTURERS FOR EACH OF THESE ITEMS. SIMILAR PRODUCTS FROM ANY OF THESE MANUFACTURERS MAY BE FURNISHED PROVIDED THEY MEET THE INTENT OF THE SPECIFICATIONS. ANY CHANGES TO THE DESIGN REQUIRED AS A RESULT OF A SUBSTITUTION ARE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.
18. PROVIDE P-TRAP OF SUFFICIENT SEAL DEPTH TO OVERCOME UNIT STATIC PRESSURE ON ALL FAN COIL UNITS, BLOWER COIL UNITS, UNIT VENTILATORS AND AIR HANDLING UNITS.

GENERAL DEMOLITION NOTES

1. ALL WORK UNDER THIS SECTION SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
2. DEMOLITION/RELOCATIONS: EACH TRADE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND RELOCATIONS OF SERVICES, EQUIPMENT AND MATERIAL RELATING TO THEIR RESPECTIVE TRADE.
3. PRIOR TO DEMOLITION CONTRACTOR SHALL REVIEW WITH OWNER ALL MATERIALS TO BE REMOVED. SHOULD THE OWNER OPT TO KEEP ANY MATERIALS, THE CONTRACTOR SHALL REMOVE AND DELIVER THE PARTS TO THE OWNER ON THE SITE WHERE SO DIRECTED. OTHERWISE, ALL DEMOLISHED OR REMOVED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR, SHALL BE REMOVED FROM THE SITE, AND BE DISPOSED OF IN A LEGAL MANNER.
4. DEMOLITION SHALL INCLUDE REMOVAL OF ALL PARTS AND PIECES IN THEIR ENTIRETY BACK TO THE POINTS INDICATED OR IF NOT INDICATED BACK TO THEIR POINT OF SOURCE. WHERE CONDITIONS PROHIBIT TOTAL REMOVAL OF THE WORK, THE REMAINING PORTION SHALL BE CUT FLUSH WITH THE SURROUNDING SURFACE AND SHALL BE REFINISHED IN AN APPROVED MANNER.
5. MAINTAIN EXISTING UTILITIES INDICATED OR WHERE REQUIRED TO REMAIN, KEEP IN SERVICE, AND PROTECT AGAINST DAMAGE DURING DEMOLITION OPERATIONS. DO NOT INTERRUPT EXISTING UTILITIES SERVING OCCUPIED OR USED FACILITIES, EXCEPT WHEN SCHEDULED WITH THE OWNER.
6. DO NOT REMOVE EXISTING STRUCTURAL WORK. DO NOT REMOVE OPERATIONAL ELEMENTS AND SAFETY-RELATED COMPONENTS IN A MANNER RESULTING IN A REDUCTION OF CAPACITIES TO PERFORM IN THE MANNER INTENDED OR RESULTING IN DECREASED OPERATIONAL LIFE, INCREASED MAINTENANCE, OR DECREASED SAFETY.
7. REMOVALS, DISCONNECTIONS, AND RELOCATIONS SHALL BE PERFORMED BY WORKMEN SKILLED IN THE TRADE INVOLVED AND SHALL BE EMPLOYED BY A CONTRACTOR LICENSED IN THE TRADE INVOLVED. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ACCEPTED TRADE PRACTICES.
8. PROVIDE ADEQUATE TEMPORARY SUPPORT FOR WORK TO REMAIN TO PREVENT FAILURE. DO NOT ENDANGER OTHER WORK.
9. PROTECTION: PROVIDE ADEQUATE PROTECTION WHERE REQUIRED FOR THE PRESENT BUILDING AND ITS CONTENTS. TEMPORARY DUSTPROOF BARRIERS AND BARRICADES SHALL BE ERECTED WHERE REQUIRED FOR PROTECTION OF PERSONNEL, PROTECTION FROM DUST AND DIRT, FOR SECURITY, FIRE AND WEATHER PROTECTIVE REASONS. CONTRACTOR SHALL TAKE EVERY PRECAUTION AGAINST FIRE BY EMPLOYING FIRE DEPARTMENT TYPE HOSES AND PORTABLE FIRE EXTINGUISHERS AS REQUIRED BY OSHA AND/OR THE OWNER'S INSURANCE UNDERWRITER.
10. ALL EXISTING EQUIPMENT REQUIRED TO BE REUSED SHALL BE CLEANED, RECONDITIONED, CALIBRATED AND ADJUSTED. IN ALL INSTANCES WHERE CONTRACTOR FINDS THAT EXISTING EQUIPMENT IS DEFECTIVE TO THE POINT WHERE IT CANNOT BE PROPERLY RESTORED AND WILL NOT OPERATE PROPERLY, THEY SHALL REPORT THE SPECIFIC INSTRUMENTS OR EQUIPMENT TO THE ENGINEER FOR DIRECTIONS.
11. EXTREME CARE SHALL BE EXERCISED FOR ALL EXISTING ITEMS THAT ARE TO REMAIN IN SERVICE UNTIL NEW ITEMS ARE INSTALLED FOR THE SAME SERVICE. ALL SHUTDOWNS OF ANY SYSTEM SHALL BE COORDINATED WITH THE OWNER.
12. ALL DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR SHALL CAREFULLY EXAMINE EXISTING CONDITIONS PRIOR TO STARTING WORK.

LIST OF DRAWINGS

M-001	MECHANICAL COVER SHEET	M-500	MECH CONTROL DIAGRAMS
MD-100A	DUCTWORK DEMO BSMNT	M-501	MECH CONTROL DIAGRAMS
MD-100B	DUCTWORK DEMO BSMNT	M-502	MECH CONTROL DIAGRAMS
MD-101A	DUCTWORK DEMO 1ST FLR	M-503	MECH CONTROL DIAGRAMS
MD-101B	DUCTWORK DEMO 1ST FLR	M-504	VRF PIPING DIAGRAMS
MD-102A	DUCTWORK DEMO 2ND FLR	M-505	VRF PIPING DIAGRAMS
MD-102B	DUCTWORK DEMO 2ND FLR	M-506	VRF PIPING DIAGRAMS
MD-103	DUCTWORK DEMO 3ND FLR	M-507	VRF WIRING DIAGRAMS
MD-104A	MECH DEMO ROOF PLAN	M-508	VRF WIRING DIAGRAMS
MD-104B	MECH DEMO ROOF PLAN	M-509	VRF WIRING DIAGRAMS
MD-200	PIPING DEMO BSMNT	M-600	MECHANICAL DETAILS
MD-201A	PIPING DEMO 1ST FLR	M-601	MECHANICAL DETAILS
MD-201B	PIPING DEMO 1ST FLR	M-602	MECHANICAL DETAILS
MD-202A	PIPING DEMO 2ND FLR		
MD-202B	PIPING DEMO 2ND FLR		
MD-203	PIPING DEMO 3RD FLR		
M-100	MECH BASEMENT PLAN		
M-101A	MECH DUCTWORK 1ST FLR		
M-101B	MECH DUCTWORK 1ST FLR		
M-102A	MECH DUCTWORK 2ND FLR		
M-102B	MECH DUCTWORK 2ND FLR		
M-103	MECH DUCTWORK 3RD FLR		
M-104A	MECH ROOF PLAN		
M-104B	MECH ROOF PLAN		
M-201A	MECH PIPING 1ST FLR		
M-201B	MECH PIPING 1ST FLR		
M-202A	MECH PIPING 2ND FLR		
M-202B	MECH PIPING 2ND FLR		
M-203	MECH PIPING 3RD FLR		
M-300	MECH BOILER ROOM PLANS		
M-400	MECHANICAL SCHEDULES		
M-401	MECHANICAL SCHEDULES		
M-402	MECHANICAL SCHEDULES		
M-403	MECHANICAL SCHEDULES		

SYMBOL LEGEND

- EQUIPMENT MARKER (TYPE SF, NUMBER 1)
- SECTION INDICATOR (SECTION 1 ON DWG M301)
- DETAIL INDICATOR (DETAIL 1 ON DWG M501)
- KEY NOTE INDICATOR (REFERS TO NOTES ON SAME SHEET)
- INSIDE DUCT DIMENSIONS (IN INCHES, FIRST DIM AS VIEWED) DASHED LINED INDICATES INTERNAL LINING
- RECTANGULAR SUPPLY DUCT TURNED UP
- RECTANGULAR SUPPLY DUCT TURNED DOWN
- ROUND DUCT TURNED UP
- ROUND DUCT TURNED DOWN
- RECTANGULAR RETURN/EXHAUST DUCT TURNED UP
- RECTANGULAR RETURN/EXHAUST DUCT TURNED DOWN
- SQUARE ELBOW WITH TURNING VANE
- ROUND ELBOW OR RADIUS ELBOW
- OGEE OFFSET
- MITRE OFFSET
- FLEXIBLE DUCT CONNECTION
- BELLMOUTH TAKE-OFF
- DUCT TO OFFSET UP IN DIRECTION OF ARROW TO AVOID OBSTRUCTION
- FLEXIBLE DUCT
- FIRE DAMPER
- SMOKE DAMPER
- BACKDRAFT DAMPER
- MOTORIZED ATC DAMPER
- COMBINATION FIRE/SMOKE DAMPER
- MANUAL VOLUME DAMPER
- GRILLE, REGISTER, DIFFUSER (GRD) MARKER (TAG A, 8"ø NECK, 200 CFM) S=SUPPLY R=RETURN E=EXHAUST T=TRANSFER
- SUPPLY AIR DIFFUSER (BLACK TRIANGLE INDICATES BLANK-OFF)
- SUPPLY AIR DIFFUSER W/RIGID ELBOW AT NECK
- RETURN/EXHAUST GRILLE OR REGISTER
- BALL VALVE
- LOCKSHIELD BALL VALVE
- BUTTERFLY VALVE
- GATE VALVE
- OS&Y GATE VALVE
- GLOBE VALVE
- PLUG VALVE
- 3-WAY CONTROL VALVE
- 2-WAY CONTROL VALVE
- PRESSURE REDUCING VALVE
- GAS PRESSURE REGULATOR
- CHECK VALVE
- CALIBRATED BALANCING VALVE
- AUTOMATIC FLOW CONTROL VALVE
- TRIPLE DUTY VALVE (COMBINATION CHECK, BALANCING, SHUTOFF)
- PIPE ANCHOR
- PIPE GUIDE
- PIPE EXPANSION JOINT/EXPANSION COMPENSATOR
- FLOW SWITCH
- PRESSURE SWITCH
- VENTURI FLOW MEASURING DEVICE
- PITOT DEVICE
- PIPE REDUCER
- PIPE FLANGE
- PIPE UNION
- Y-TYPE STRAINER
- FUNNEL DRAIN
- RELIEF VALVE
- AIR VENT
- THERMOMETER IN THERMOWELL
- PRESSURE GAUGE W/SHUTOFF COCK
- PRESSURE GAUGE W/SNUBBER AND SHUTOFF COCK
- PRESSURE GAUGE W/SYPHON AND SHUTOFF COCK
- TEMPERATURE AND PRESSURE PORT
- FLEXIBLE PIPE CONNECTION
- PIPE CAP
- PIPE TURNED DOWN
- PIPE TURNED UP
- TEE TURNED DOWN
- TEE TURNED UP
- CHILLED WATER SUPPLY PIPE
- CHILLED WATER RETURN PIPE
- CONDENSER WATER SUPPLY PIPE
- CONDENSER WATER RETURN PIPE
- DUAL TEMPERATURE SUPPLY PIPE
- DUAL TEMPERATURE RETURN PIPE
- HEAT PUMP LOOP SUPPLY PIPE
- HEAT PUMP LOOP RETURN PIPE
- HIGH PRESSURE STEAM SUPPLY PIPE
- HIGH PRESSURE STEAM RETURN PIPE
- HOT WATER SUPPLY PIPE
- HOT WATER RETURN PIPE
- FUEL OIL SUPPLY PIPE
- FUEL OIL RETURN PIPE
- LOW PRESSURE STEAM SUPPLY PIPE
- LOW PRESSURE STEAM RETURN PIPE
- PUMPED STEAM CONDENSATE
- COOLING COIL CONDENSATE DRAIN
- PREHEAT SUPPLY PIPE
- PREHEAT RETURN PIPE
- REHEAT SUPPLY PIPE
- REHEAT RETURN PIPE
- PUMP
- THERMOSTAT/TEMPERATURE SENSOR
- HUMIDITY SENSOR
- STATIC PRESSURE SENSOR
- CARBON DIOXIDE SENSOR
- DOOR TO BE UNDERCUT 3/4"
- DENOTES CONNECT TO EXISTING
- DENOTES LIMIT OF DEMOLITION
- EXISTING WORK TO REMAIN
- WORK TO BE REMOVED
- NEW WORK

M/E/P Engineer:

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RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
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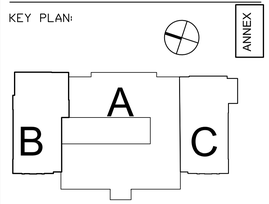
KEY PLAN:



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Client:
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201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: TMW
Checked By: RLD

Sheet Name:
MECHANICAL COVER SHEET

Sheet No:
M-001
Sheet 0 of 000

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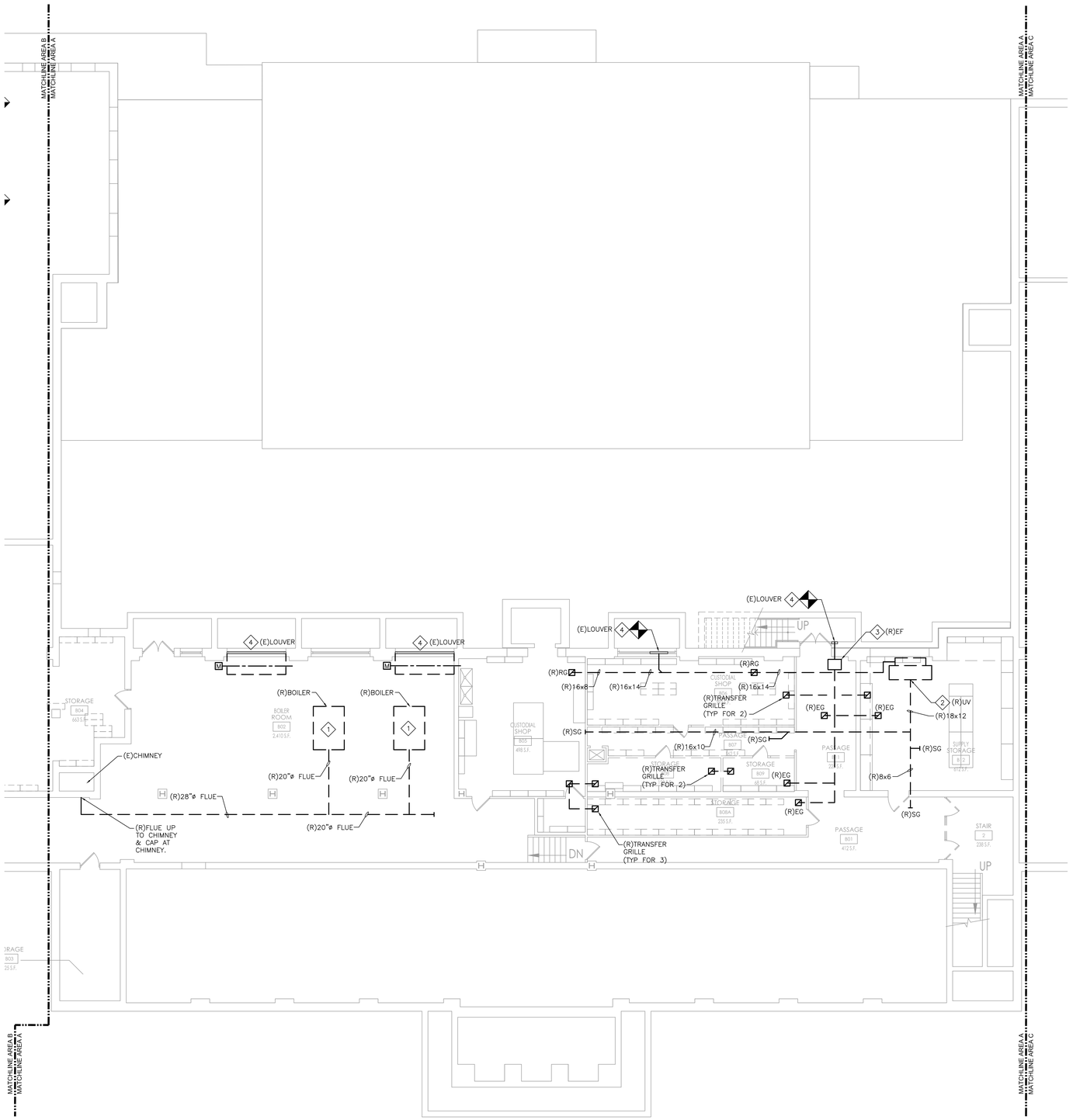
NOTES:

1. REFER TO DRAWING M-001 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.



1 MECHANICAL DUCTWORK DEMOLITION BASEMENT FLOOR PLAN - PART A

SCALE: 1/8"=1'0"

DEMOLITION KEY NOTES:

1. REMOVE BOILER IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, HOT WATER SUPPLY & RETURN PIPING, FLUE, VALVES, SPECIALTIES, INSULATION, HANGERS, SUPPORTS, CONTROLS AND WIRING.
2. REMOVE UNIT VENTILATOR IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, ASSOCIATED HOT WATER SUPPLY AND RETURN PIPING, CHILLED WATER SUPPLY AND RETURN PIPING, SUPPLY AND RETURN DUCTWORK, GRILLES, DIFFUSERS, INSULATION, HANGERS, SUPPORTS, WIRING AND CONTROLS.
3. REMOVE EXHAUST FAN IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, DUCTWORK, ACCESSORIES, GRILLES, HANGERS, SUPPORTS, CONTROLS AND WIRING.
4. REMOVE EXISTING OUTDOOR AIR INTAKE/EXHAUST DUCTWORK TO LOUVER AND ASSOCIATED DAMPER AND CONTROLS. BLANK LOUVER WITH INSULATED SHEET METAL PANEL.

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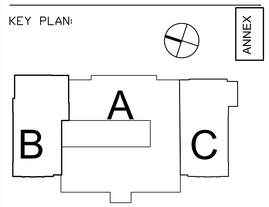
RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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Project:
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BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: TMW
Checked By: RLD

Sheet Name:
DUCTWORK DEMO BSMNT

Sheet No:
MD-100A
Sheet 0 of 000

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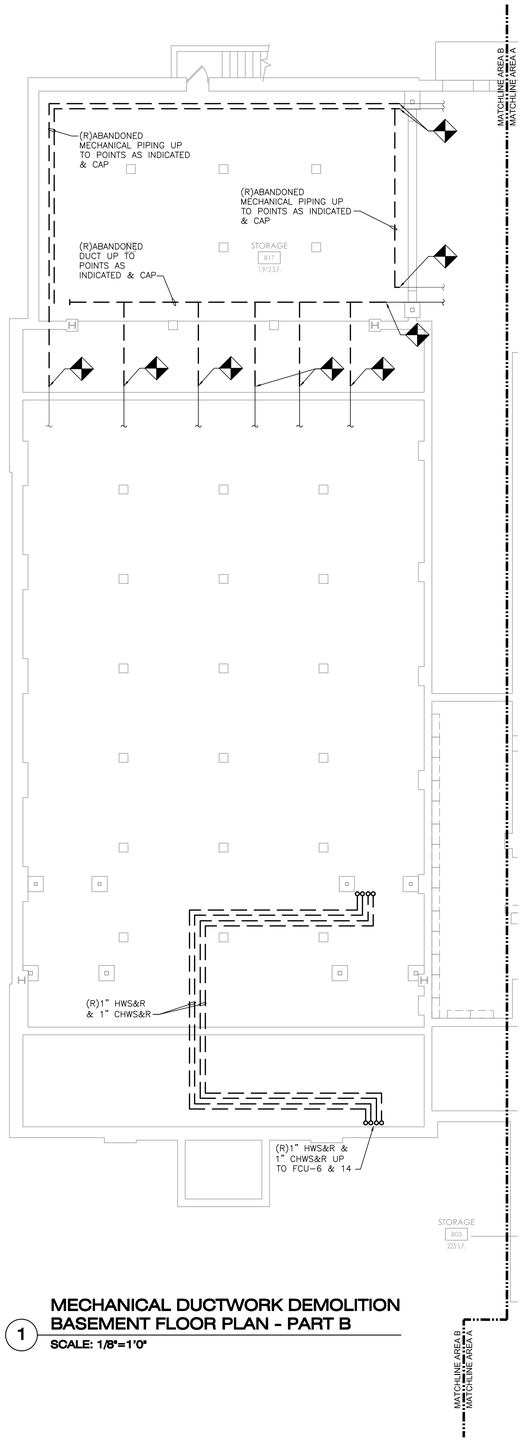
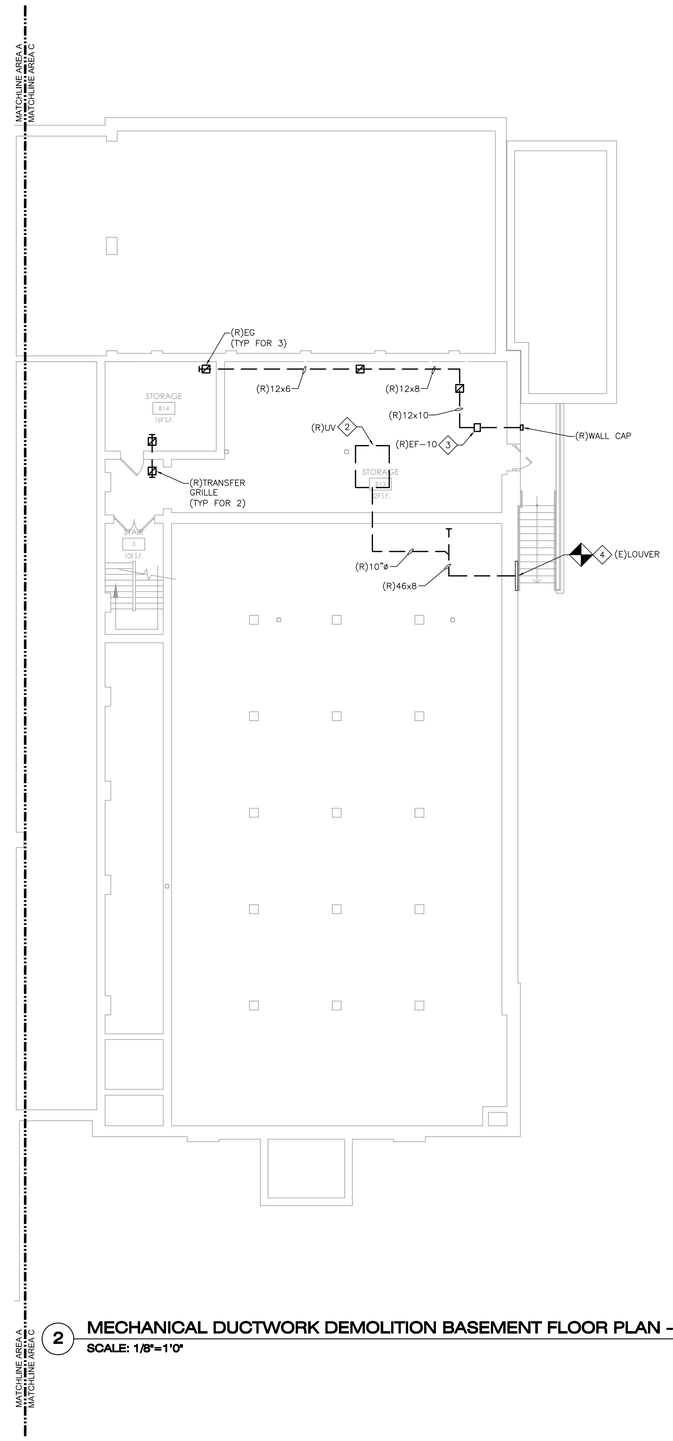


1 MECHANICAL DUCTWORK DEMOLITION BASEMENT FLOOR PLAN - PART B

SCALE: 1/8"=1'0"



2 MECHANICAL DUCTWORK DEMOLITION BASEMENT FLOOR PLAN - PART C

SCALE: 1/8"=1'0"

DEMOLITION KEY NOTES:

1. REMOVE BOILER IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, HOT WATER SUPPLY & RETURN PIPING, FLUE, VALVES, SPECIALTIES, INSULATION, HANGERS, SUPPORTS, CONTROLS AND WIRING.
2. REMOVE UNIT VENTILATOR IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, ASSOCIATED HOT WATER SUPPLY AND RETURN PIPING, CHILLED WATER SUPPLY AND RETURN PIPING, SUPPLY AND RETURN DUCTWORK, GRILLES, DIFFUSERS, INSULATION, HANGERS, SUPPORTS, WIRING AND CONTROLS.
3. REMOVE EXHAUST FAN IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, DUCTWORK, ACCESSORIES, GRILLES, HANGERS, SUPPORTS, CONTROLS AND WIRING.
4. REMOVE EXISTING OUTDOOR AIR INTAKE/EXHAUST DUCTWORK TO LOUVER AND ASSOCIATED DAMPER AND CONTROLS. BLANK LOUVER WITH INSULATED SHEET METAL PANEL.

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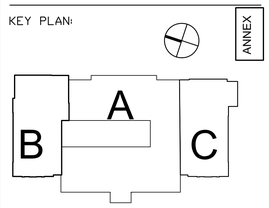
KEY PLAN:



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Drawing Information:

Project No: 25.024
Date:
Drawn By: TMW
Checked By: RLD

Sheet Name:

DUCTWORK DEMO BSMNT

Sheet No:

MD-100B

Sheet 0 of 000

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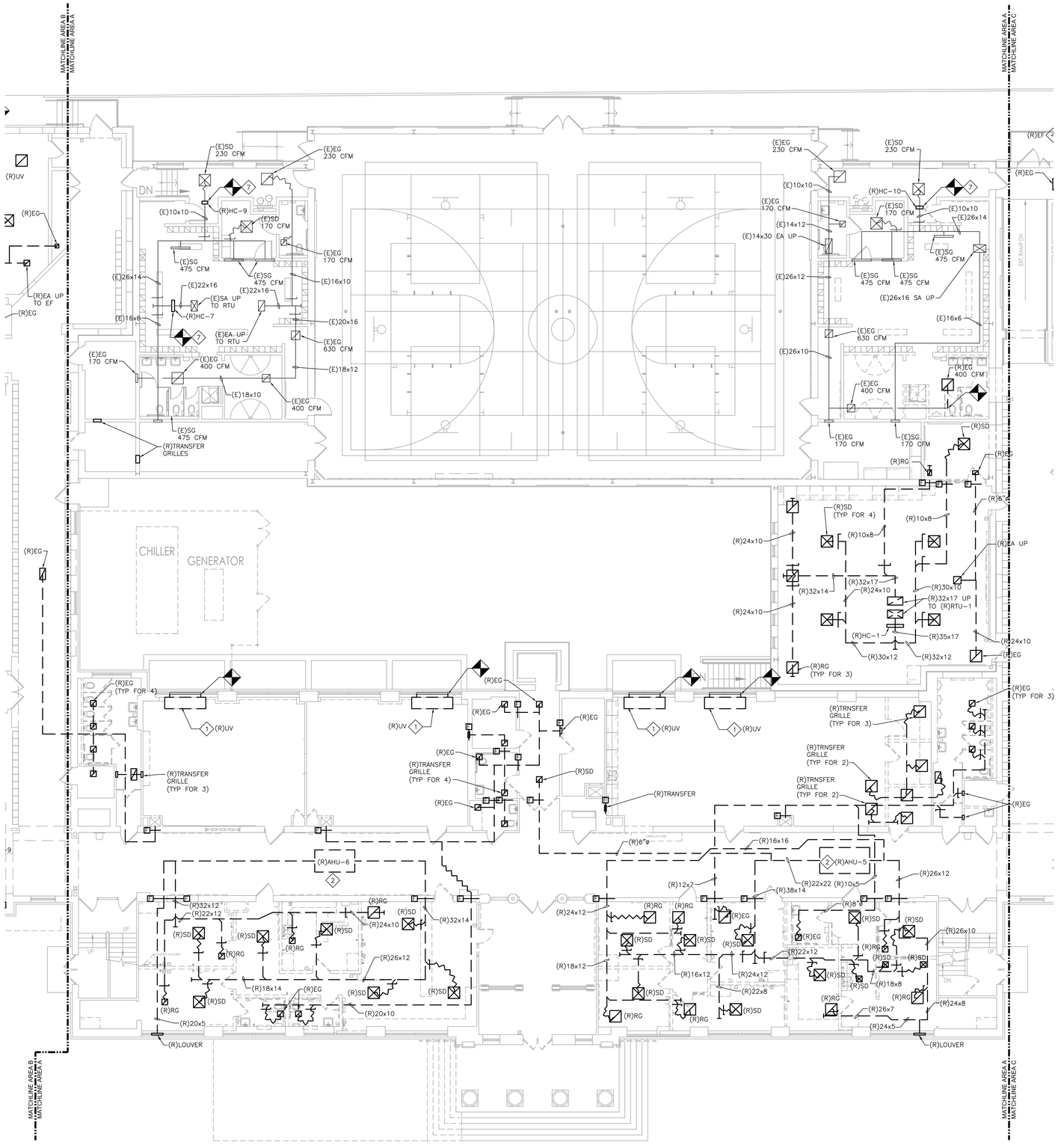

1 MECHANICAL DUCTWORK DEMOLITION FIRST FLOOR PLAN AREA A

SCALE: 1/8"=1'0"

NOTES:

1. REFER TO DRAWING M-001 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.

DEMOLITION KEY NOTES:

1. REMOVE UNIT VENTILATOR IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, ASSOCIATED HOT WATER SUPPLY AND RETURN PIPING, CHILLED WATER SUPPLY AND RETURN PIPING, WALL BOX, WIRING AND CONTROLS. BLANK OFF EXISTING LOUVER WITH DOUBLE SIDED 1" INSULATED SHEET METAL PANEL AND ABANDON.
2. REMOVE AIR HANDLING UNIT IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, ASSOCIATED HOT WATER SUPPLY AND RETURN PIPING, CHILLED WATER SUPPLY AND RETURN PIPING, SUPPLY AND RETURN DUCTWORK, GRILLES, DIFFUSERS, AIR DUCT ACCESSORIES, INSULATION, HANGERS, SUPPORTS, CONTROLS AND WIRING. BLANK OFF EXISTING LOUVER WITH DOUBLE SIDED 1" INSULATED SHEET METAL PANEL AND ABANDON.
3. REMOVE AND SALVAGE EXISTING 40x8 SUPPLY GRILLE. GRILLE NECK TO BE EXTENDED AND GRILLE RELOCATED ON NEW WALL.
4. REMOVE EXHAUST FAN IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, DUCTWORK, GRILLES HANGERS, SUPPORTS, CONTROLS AND WIRING. CAP OPENING WITH INSULATED METAL PLATE WEATHERTIGHT AND PAINT IN COLOR AS SELECTED BY ARCHITECT.
5. REMOVE FAN COIL UNIT IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, ASSOCIATED HOT WATER SUPPLY AND RETURN PIPING, CHILLED WATER SUPPLY AND RETURN PIPING, OUTSIDE AIR DUCTWORK, INSULATION, HANGERS, SUPPORTS, CONTROLS AND WIRING.
6. REMOVE FAN COIL UNIT IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, ASSOCIATED HOT WATER SUPPLY AND RETURN PIPING, CHILLED WATER SUPPLY AND RETURN PIPING, INSULATION, HANGERS, SUPPORTS, CONTROLS AND WIRING. BLANK OFF EXISTING LOUVER WITH DOUBLE SIDED 1" INSULATED SHEET METAL PANEL AND ABANDON.
7. REMOVE HOT WATER DUCT HEATING COIL INCLUDING ALL ASSOCIATED HOT WATER SUPPLY & RETURN PIPING, INSULATION, HANGERS, VALVES, SPECIALTIES, CONTROLS AND WIRING. AFTER REMOVAL OF COIL, CONNECT/PATCH EXISTING DUCTWORK SO THAT THE DUCT IS CONTINUOUS & AIRTIGHT. PROVIDE NEW INSULATION AS NEEDED TO ENSURE EXISTING DUCT IS FULLY INSULATED. FIELD VERIFY EXISTING DUCT SIZE.

M/E/P Engineer:

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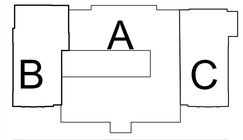

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Drawing Information:
Project No: 25.024
Date:
Drawn By: TMW
Checked By: RLD

Sheet Name:
DUCTWORK DEMO 1ST FLR

Sheet No:
MD-101A
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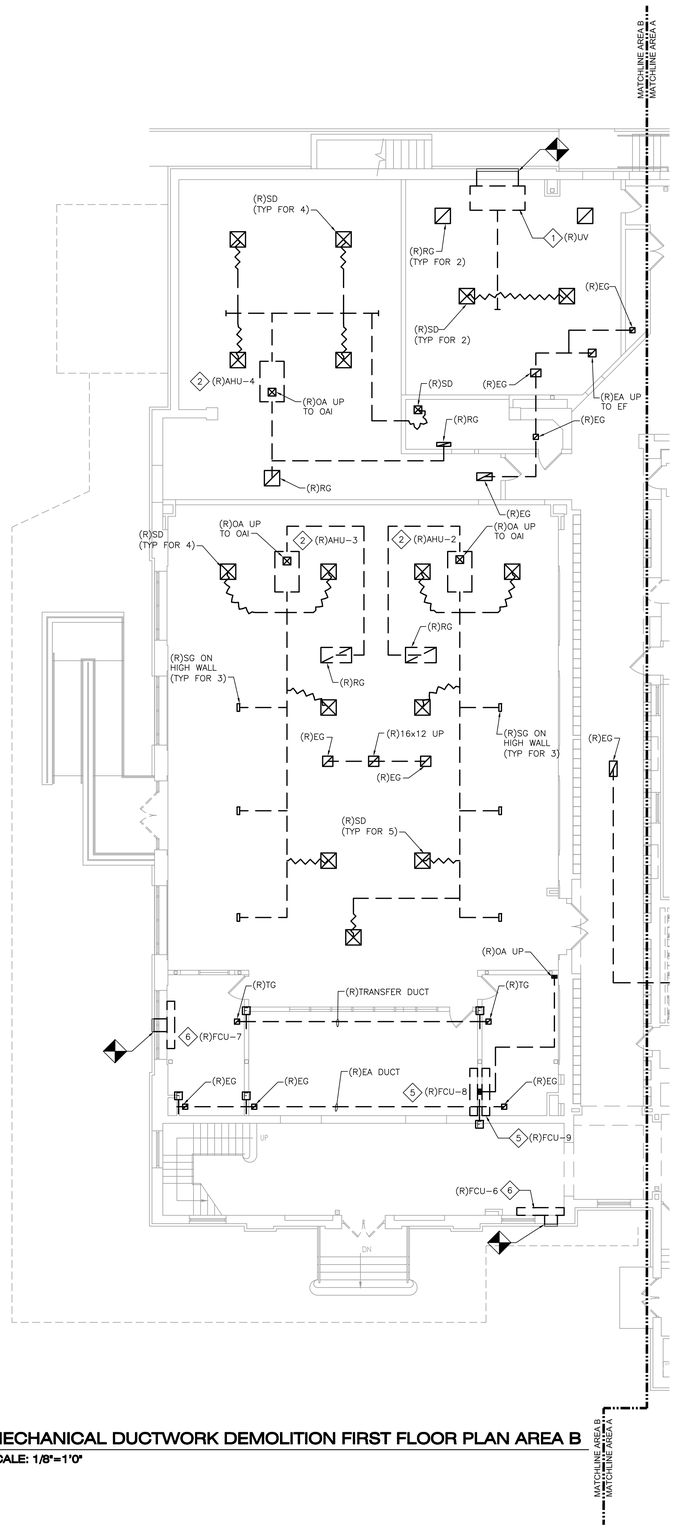
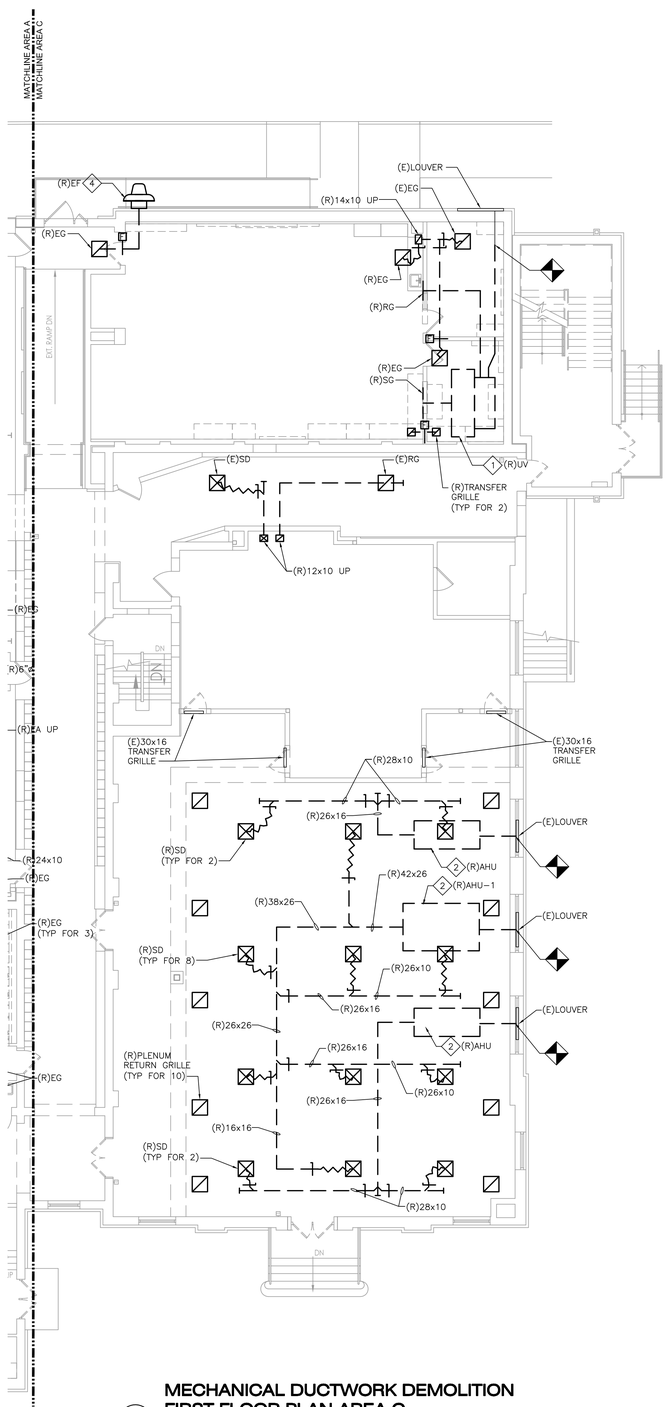


1 MECHANICAL DUCTWORK DEMOLITION FIRST FLOOR PLAN AREA B

SCALE: 1/8"=1'0"



2 MECHANICAL DUCTWORK DEMOLITION FIRST FLOOR PLAN AREA C

SCALE: 1/8"=1'0"

DEMOLITION KEY NOTES:

1. REMOVE UNIT VENTILATOR IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, ASSOCIATED HOT WATER SUPPLY AND RETURN PIPING, CHILLED WATER SUPPLY AND RETURN PIPING, WALL BOX, WIRING AND CONTROLS. BLANK OFF EXISTING LOUVER WITH DOUBLE SIDED 1" INSULATED SHEET METAL PANEL AND ABANDON.
2. REMOVE AIR HANDLING UNIT IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, ASSOCIATED HOT WATER SUPPLY AND RETURN PIPING, CHILLED WATER SUPPLY AND RETURN PIPING, SUPPLY AND RETURN DUCTWORK, GRILLES, DIFFUSERS, AIR DUCT ACCESSORIES, INSULATION, HANGERS, SUPPORTS, CONTROLS AND WIRING. BLANK OFF EXISTING LOUVER WITH DOUBLE SIDED 1" INSULATED SHEET METAL PANEL AND ABANDON.
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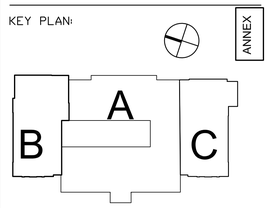
LICENSE NO.: GE45368

KEY PLAN:



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Richard D. Alderiso , AIA
NJ RA AI 15023, NY RA 027416, PA RA 405474

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Client:

Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:

Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:

Project No: 25.024
Date:
Drawn By: TMW
Checked By: RLD

Sheet Name:

DUCTWORK DEMO 1ST FLR

Sheet No:

MD-101B

Sheet 0 of 000

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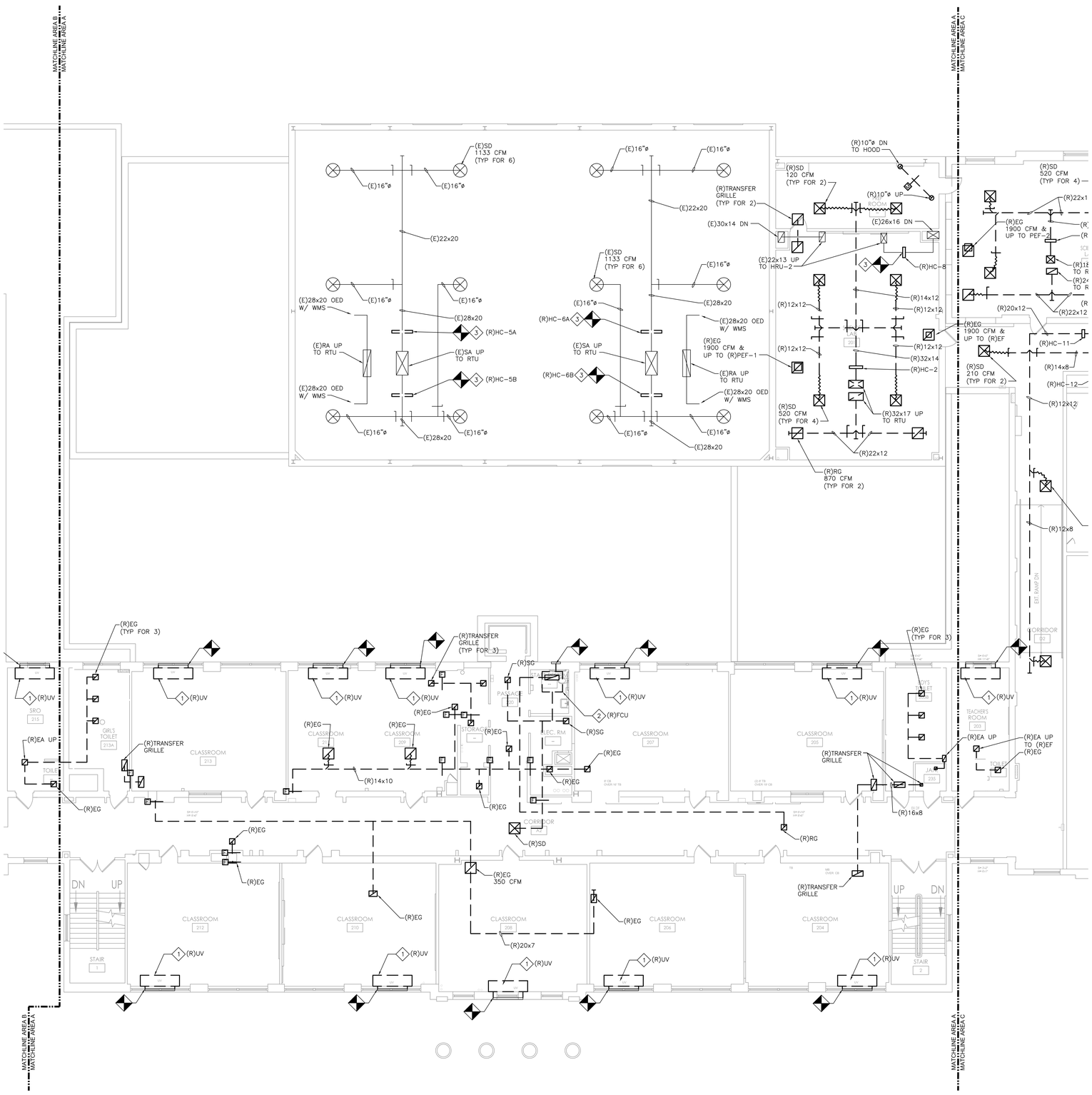


1 MECHANICAL DUCTWORK DEMOLITION SECOND FLOOR PLAN AREA A

SCALE: 1/8"=1'0"

DEMOLITION KEY NOTES:

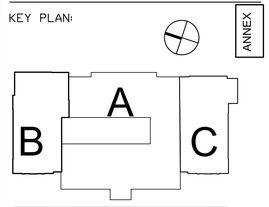
1. REMOVE UNIT VENTILATOR IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, ASSOCIATED HOT WATER SUPPLY AND RETURN PIPING, CHILLED WATER SUPPLY AND RETURN PIPING, WALL BOX, WIRING AND CONTROLS. BLANK OFF EXISTING LOUVER WITH DOUBLE SIDED 1" INSULATED SHEET METAL PANEL AND ABANDON.
2. REMOVE FAN COIL UNIT IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, ASSOCIATED HOT WATER SUPPLY AND RETURN PIPING, CHILLED WATER SUPPLY AND RETURN PIPING, SUPPLY AND RETURN DUCTWORK, HANGERS, SUPPORTS, CONTROLS AND WIRING. BLANK OFF EXISTING LOUVER WITH DOUBLE SIDED 1" INSULATED SHEET METAL PANEL AND ABANDON.
3. REMOVE HOT WATER DUCT HEATING COIL INCLUDING ALL ASSOCIATED HOT WATER SUPPLY & RETURN PIPING, INSULATION, HANGERS, VALVES, SPECIALTIES, CONTROLS AND WIRING. AFTER REMOVAL OF COIL, CONNECT/PATCH EXISTING DUCTWORK SO THAT THE DUCT IS CONTINUOUS & AIRTIGHT. PROVIDE NEW INSULATION AS NEEDED TO ENSURE EXISTING DUCT IS FULLY INSULATED. FIELD VERIFY EXISTING DUCT SIZE.

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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Richard D. Alderiso , AIA
NJ RA AI 15023, NY RA 027416, PA RA 405474

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201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: TMW
Checked By: RLD

Sheet Name:
DUCTWORK DEMO 2ND FLR

Sheet No:
MD-102A
Sheet 0 of 000

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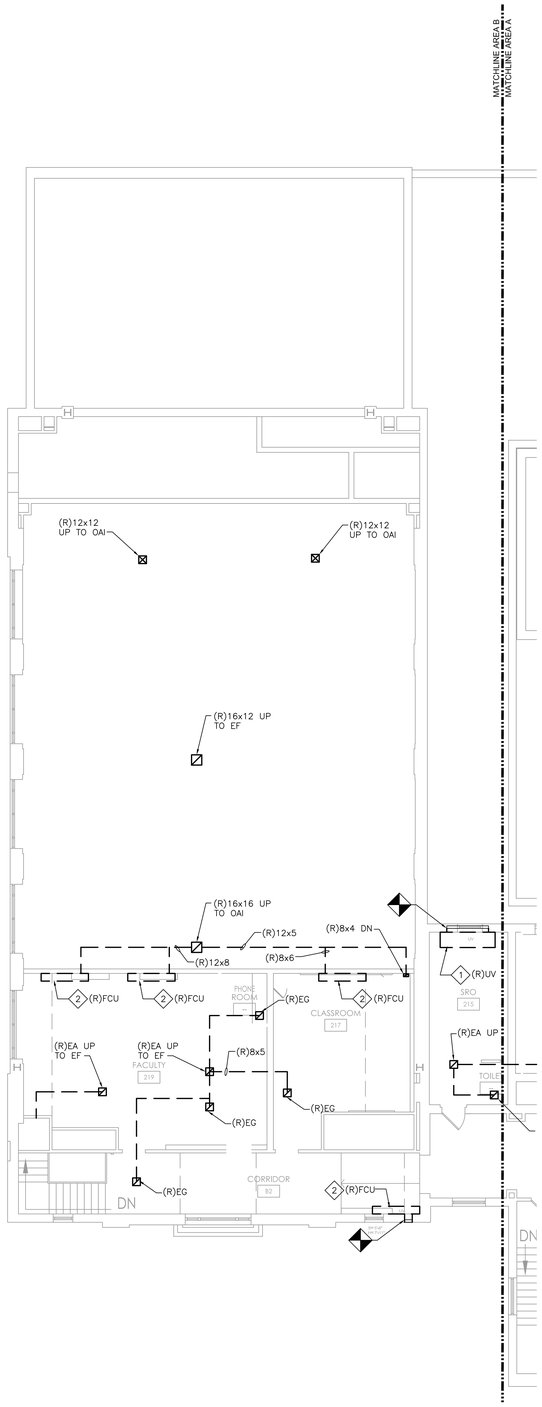
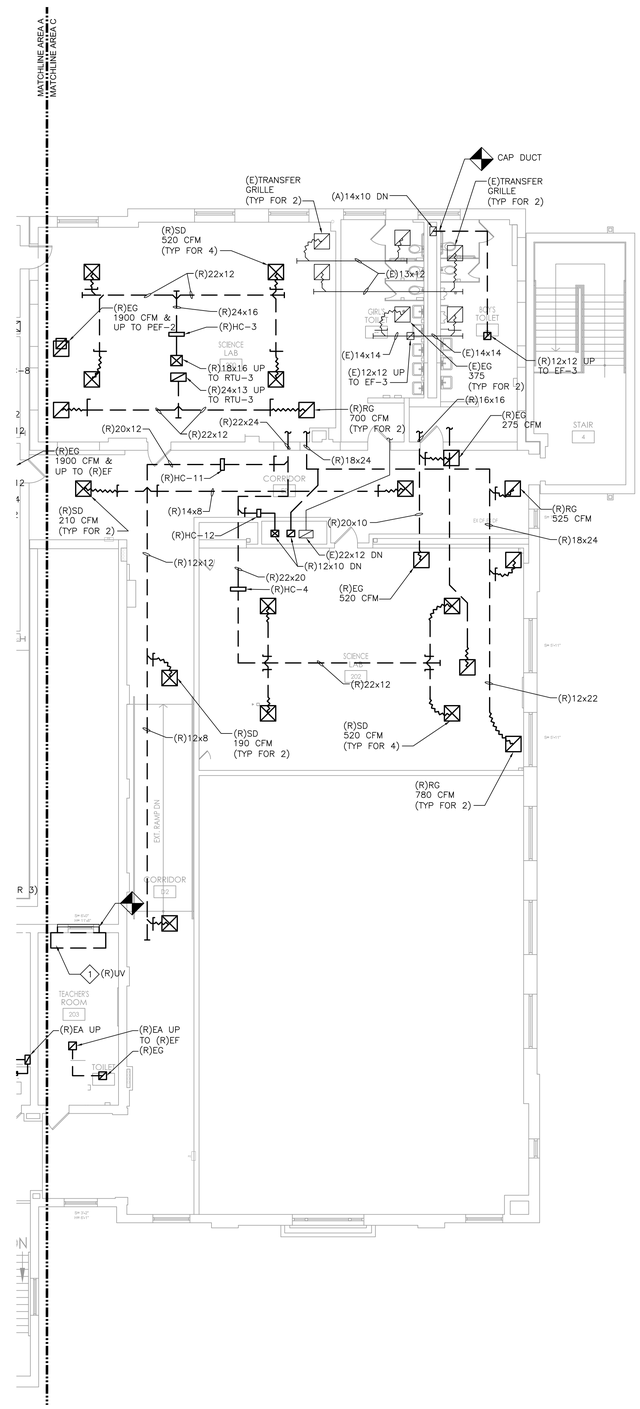


1 MECHANICAL DUCTWORK DEMOLITION SECOND FLOOR PLAN AREA B

SCALE: 1/8"=1'0"



2 MECHANICAL DUCTWORK DEMOLITION SECOND FLOOR PLAN AREA C

SCALE: 1/8"=1'0"

DEMOLITION KEY NOTES:

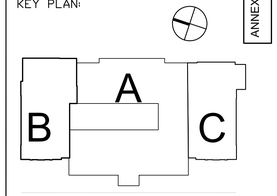
1. REMOVE UNIT VENTILATOR IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, ASSOCIATED HOT WATER SUPPLY AND RETURN PIPING, CHILLED WATER SUPPLY AND RETURN PIPING, WALL BOX, WIRING AND CONTROLS. BLANK OFF EXISTING LOUVER WITH DOUBLE SIDED 1" INSULATED SHEET METAL PANEL AND ABANDON.
2. REMOVE FAN COIL UNIT IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, ASSOCIATED HOT WATER SUPPLY AND RETURN PIPING, CHILLED WATER SUPPLY AND RETURN PIPING, SUPPLY AND RETURN DUCTWORK, HANGERS, SUPPORTS, CONTROLS AND WIRING. BLANK OFF EXISTING LOUVER WITH DOUBLE SIDED 1" INSULATED SHEET METAL PANEL AND ABANDON.
3. REMOVE HOT WATER DUCT HEATING COIL INCLUDING ALL ASSOCIATED HOT WATER SUPPLY & RETURN PIPING, INSULATION, HANGERS, VALVES, SPECIALTIES, CONTROLS AND WIRING. AFTER REMOVAL OF COIL, CONNECT/PATCH EXISTING DUCTWORK SO THAT THE DUCT IS CONTINUOUS & AIRTIGHT. PROVIDE NEW INSULATION AS NEEDED TO ENSURE EXISTING DUCT IS FULLY INSULATED. FIELD VERIFY EXISTING DUCT SIZE.

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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NJ RA AI 15023, NY RA 027416, PA RA 405474

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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: TMW
Checked By: RLD

Sheet Name:
DUCTWORK DEMO 2ND FLR

Sheet No:
MD-102B
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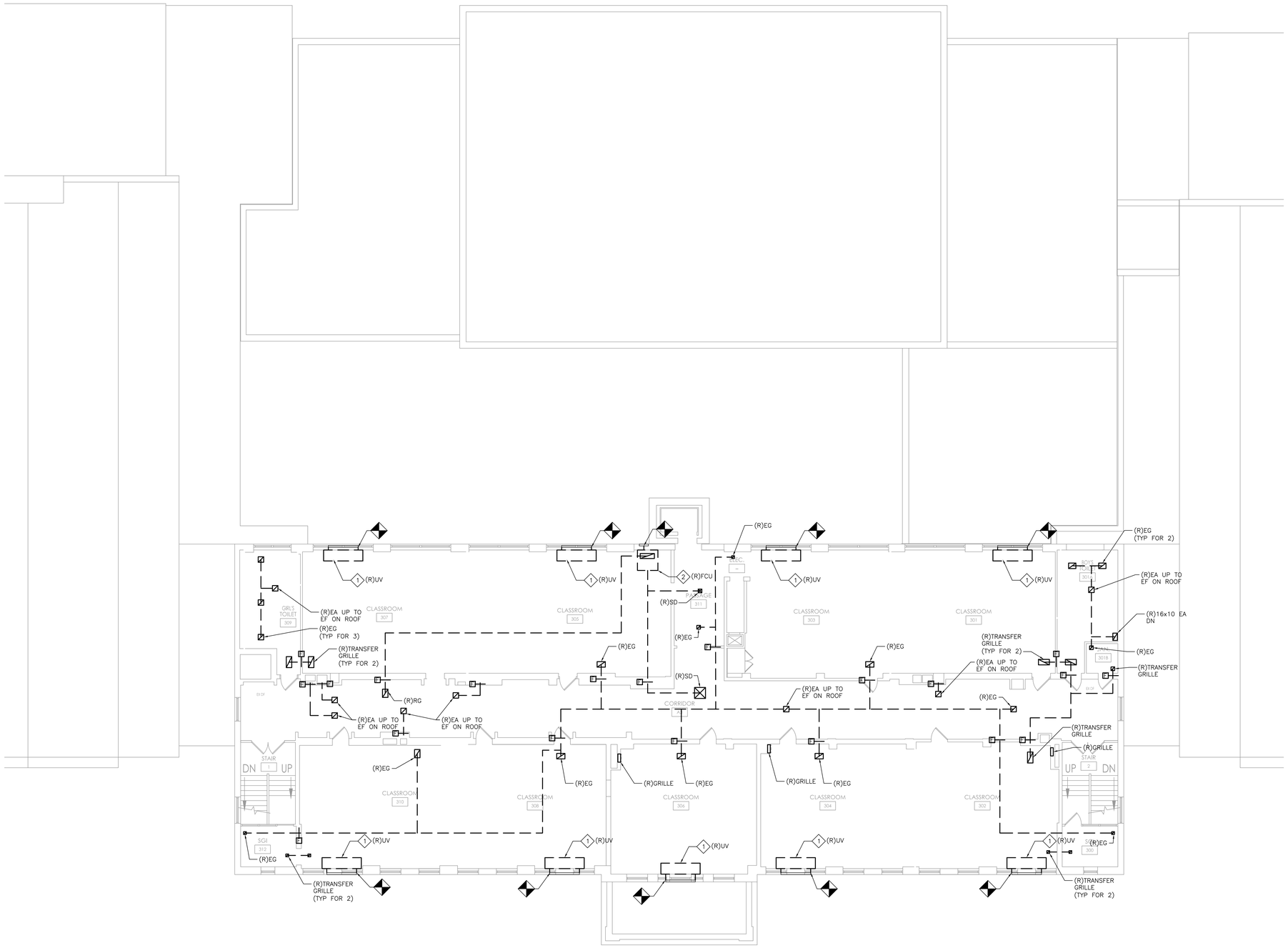

DEMOLITION KEY NOTES:

1. REMOVE UNIT VENTILATOR IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, ASSOCIATED HOT WATER SUPPLY AND RETURN PIPING, CHILLED WATER SUPPLY AND RETURN PIPING, WALL BOX, WIRING AND CONTROLS. BLANK OFF EXISTING LOUVER WITH DOUBLE SIDED 1" INSULATED SHEET METAL PANEL AND ABANDON.
2. REMOVE FAN COIL UNIT IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, ASSOCIATED HOT WATER SUPPLY AND RETURN PIPING, CHILLED WATER SUPPLY AND RETURN PIPING, SUPPLY AND RETURN DUCTWORK, HANGERS, SUPPORTS, CONTROLS AND WIRING. BLANK OFF EXISTING LOUVER WITH DOUBLE SIDED 1" INSULATED SHEET METAL PANEL AND ABANDON.

1 MECHANICAL DUCTWORK DEMOLITION THIRD FLOOR PLAN

SCALE: 1/8"=1'0"

M/E/P Engineer:

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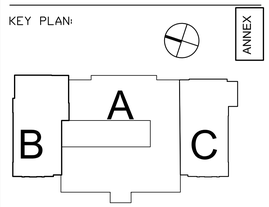
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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NJ RA AI 15023, NY RA 027416, PA RA 405474

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Client:
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201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: TMW
Checked By: RLD

Sheet Name:
DUCTWORK DEMO 3RD FLR

Sheet No:
MD-103
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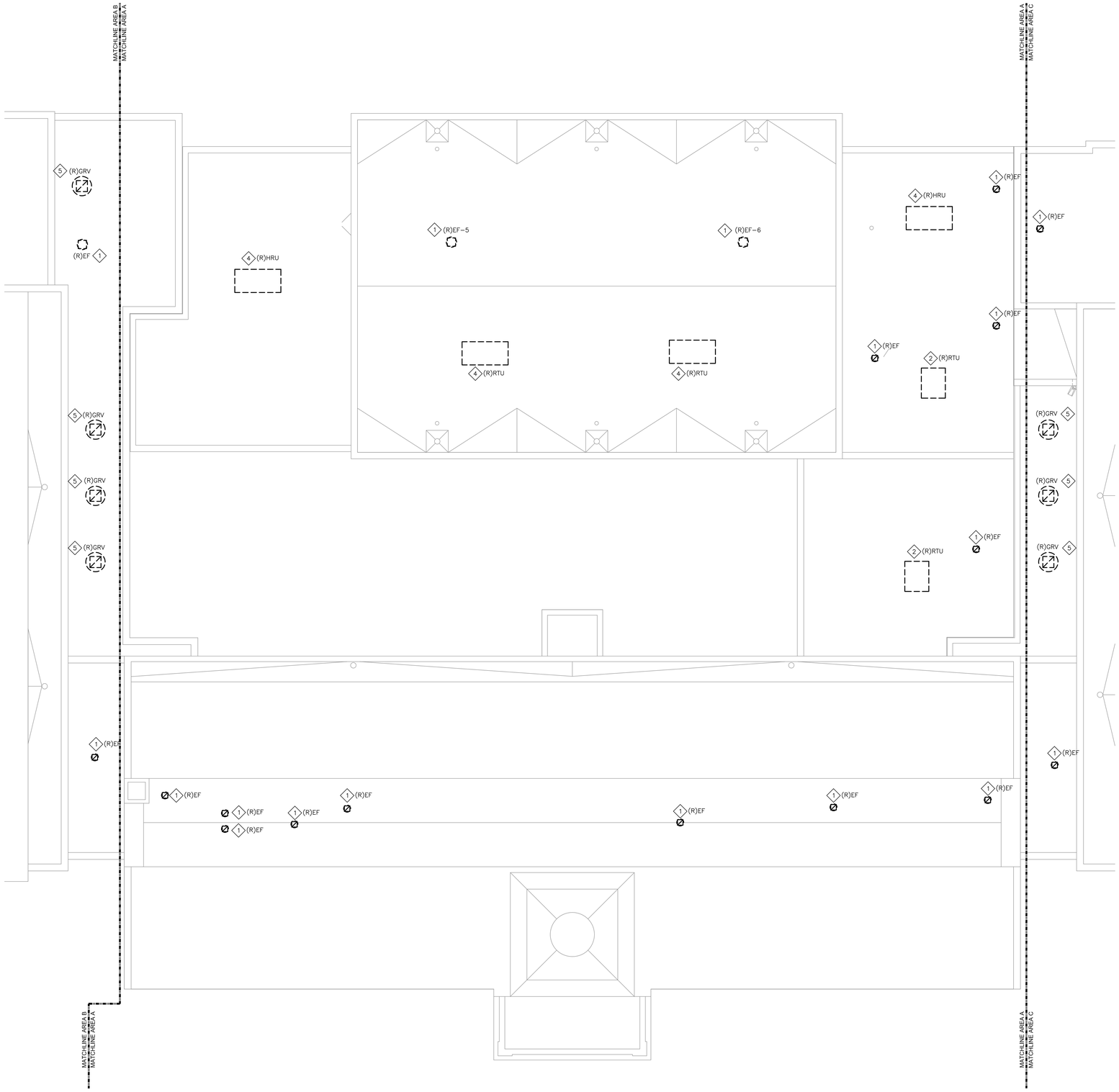

1 MECHANICAL DEMOLITION ROOF PLAN AREA A
SCALE: 1/8"=1'0"

NOTES:

1. REFER TO DRAWING M-001 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.

DEMOLITION KEY NOTES:

1. REMOVE EXHAUST FAN IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, DUCTWORK, GRILLES, HANGERS, SUPPORTS, HANGERS, ROOF CURB, CONTROLS AND WIRING.
2. REMOVE ROOFTOP UNIT IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, SUPPLY & RETURN DUCTWORK, HOT WATER DUCT COIL, GRILLES, DIFFUSERS, AIR DUCT ACCESSORIES, INSULATION, HANGERS, SUPPORTS, CONTROLS AND WIRING. ROOF CURB IS TO BE REMOVED.
3. REMOVE EXHAUST FAN/AIR INTAKE IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, DUCTWORK, GRILLES, HANGERS, SUPPORTS, CONTROLS AND WIRING. CURB IS TO REMAIN AND BE CAPED WITH 18GA, 1" INSULATED METAL PLATE WEATHERTIGHT AND PAINT IN COLOR AS SELECTED BY ARCHITECT.
4. REMOVE ROOFTOP UNIT, INCLUDING BUT NOT LIMITED TO, CONTROLS AND WIRING. EXISTING DUCTWORK AND CURB TO BE REUSED WITH NEW ROOFTOP UNIT.
5. REMOVE GRAVITY VENTILATOR IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, ASSOCIATED DUCTWORK AND DAMPER, CONTROLS, WIRING, AND ROOF CURB.

M/E/P Engineer:

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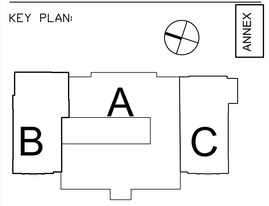
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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NJ RA AI 15023, NY RA 027416, PA RA 405474

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Client:

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201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:

Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:

Project No: 25.024
Date:
Drawn By: TMW
Checked By: RLD

Sheet Name:

MECH DEMO ROOF PLAN

Sheet No:

MD-104A

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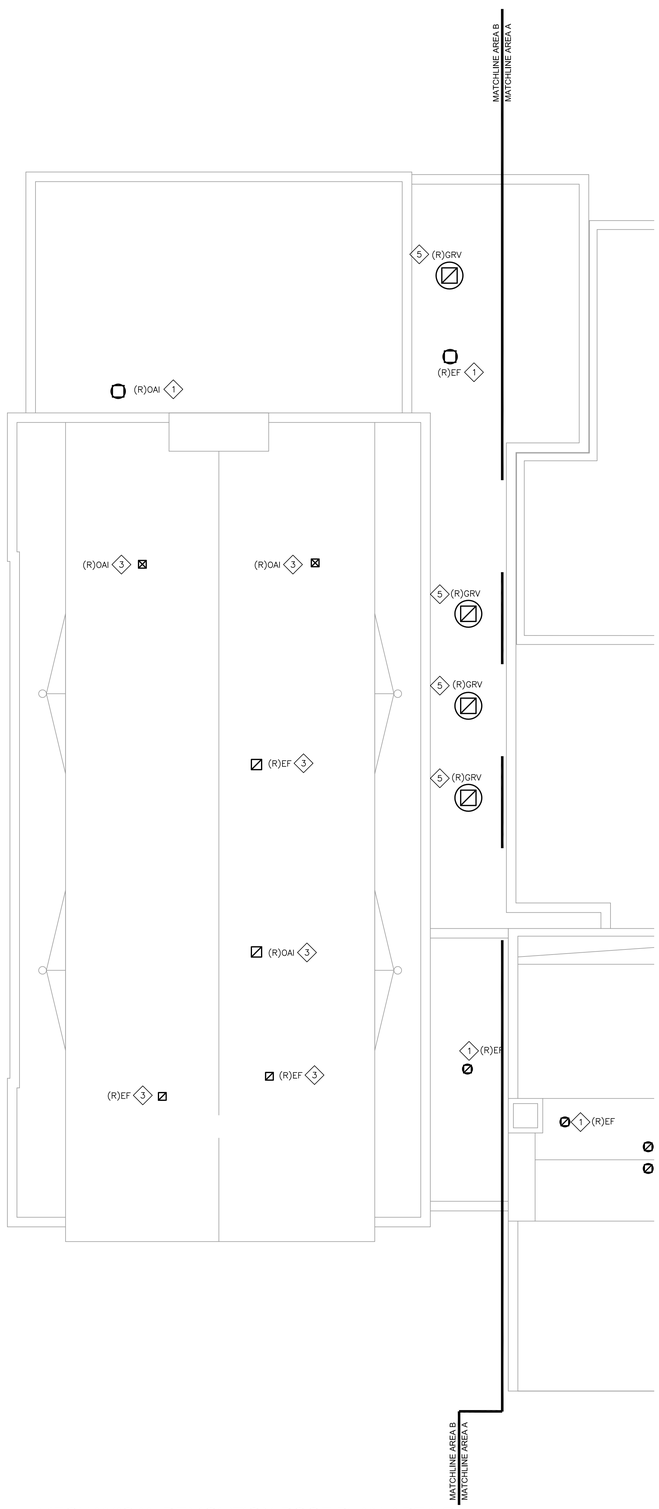
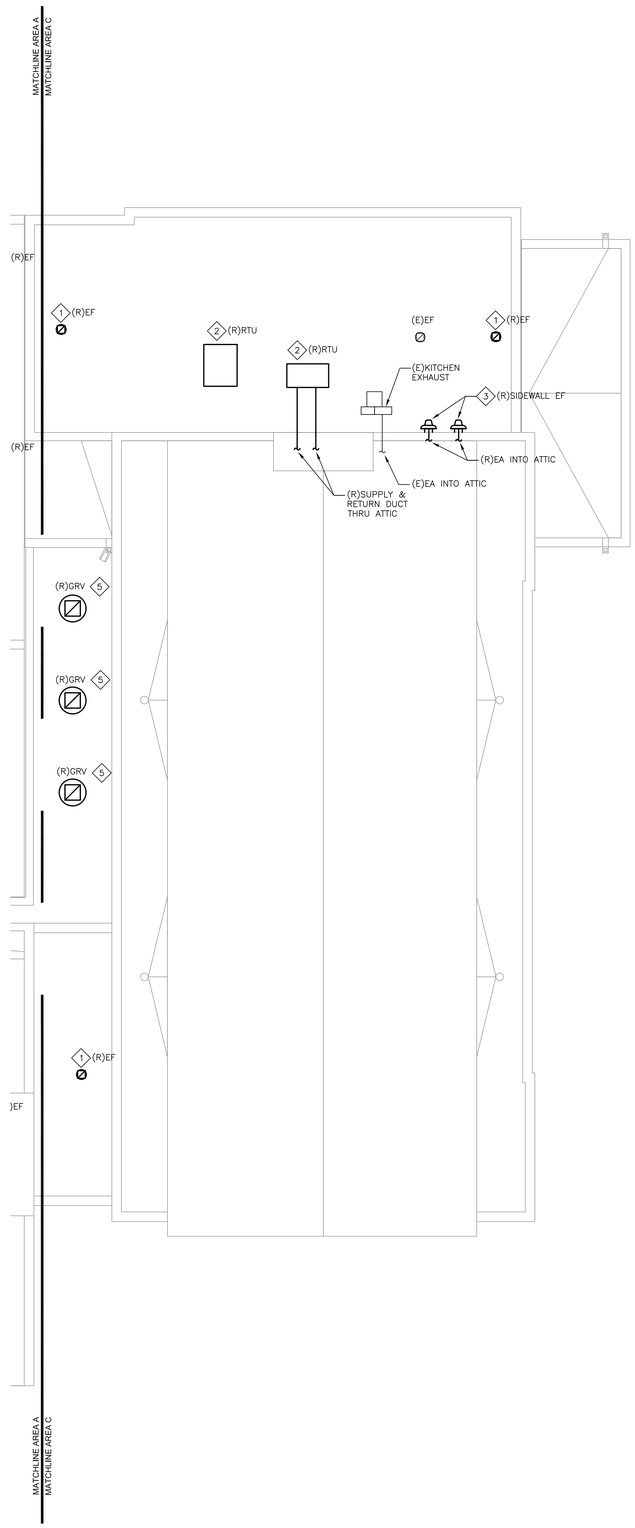


1 MECHANICAL DEMOLITION ROOF PLAN AREA B

SCALE: 1/8"=1'0"



2 MECHANICAL DEMOLITION ROOF PLAN AREA C

SCALE: 1/8"=1'0"

DEMOLITION KEY NOTES:

1. REMOVE EXHAUST FAN IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, DUCTWORK, GRILLES, HANGERS, SUPPORTS, HANGERS, ROOF CURB, CONTROLS AND WIRING.
2. REMOVE ROOFTOP UNIT IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, SUPPLY & RETURN DUCTWORK, HOT WATER DUCT COIL, GRILLES, DIFFUSERS, AIR DUCT ACCESSORIES, INSULATION, HANGERS, SUPPORTS, CONTROLS AND WIRING. ROOF CURB IS TO BE REMOVED.
3. REMOVE EXHAUST FAN/AIR INTAKE IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, DUCTWORK, GRILLES, HANGERS, SUPPORTS, CONTROLS AND WIRING. CURB IS TO REMAIN AND BE CAPED WITH 18GA, 1" INSULATED METAL PLATE WEATHERTIGHT AND PAINT IN COLOR AS SELECTED BY ARCHITECT.
4. REMOVE ROOFTOP UNIT, INCLUDING BUT NOT LIMITED TO, CONTROLS AND WIRING. EXISTING DUCTWORK AND CURB TO BE REUSED WITH NEW ROOFTOP UNIT.
5. REMOVE GRAVITY VENTILATOR IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, ASSOCIATED DUCTWORK AND DAMPER, CONTROLS, WIRING, AND ROOF CURB.

M/E/P Engineer:

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Consulting M/E/P Engineers
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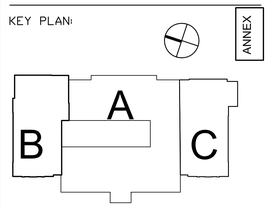
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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NJ RA AI 15023, NY RA 027416, PA RA 405474

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Glassboro, NJ 08028

Project:
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202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: TMW
Checked By: RLD

Sheet Name:
MECH DEMO ROOF PLAN

Sheet No:
MD-104B
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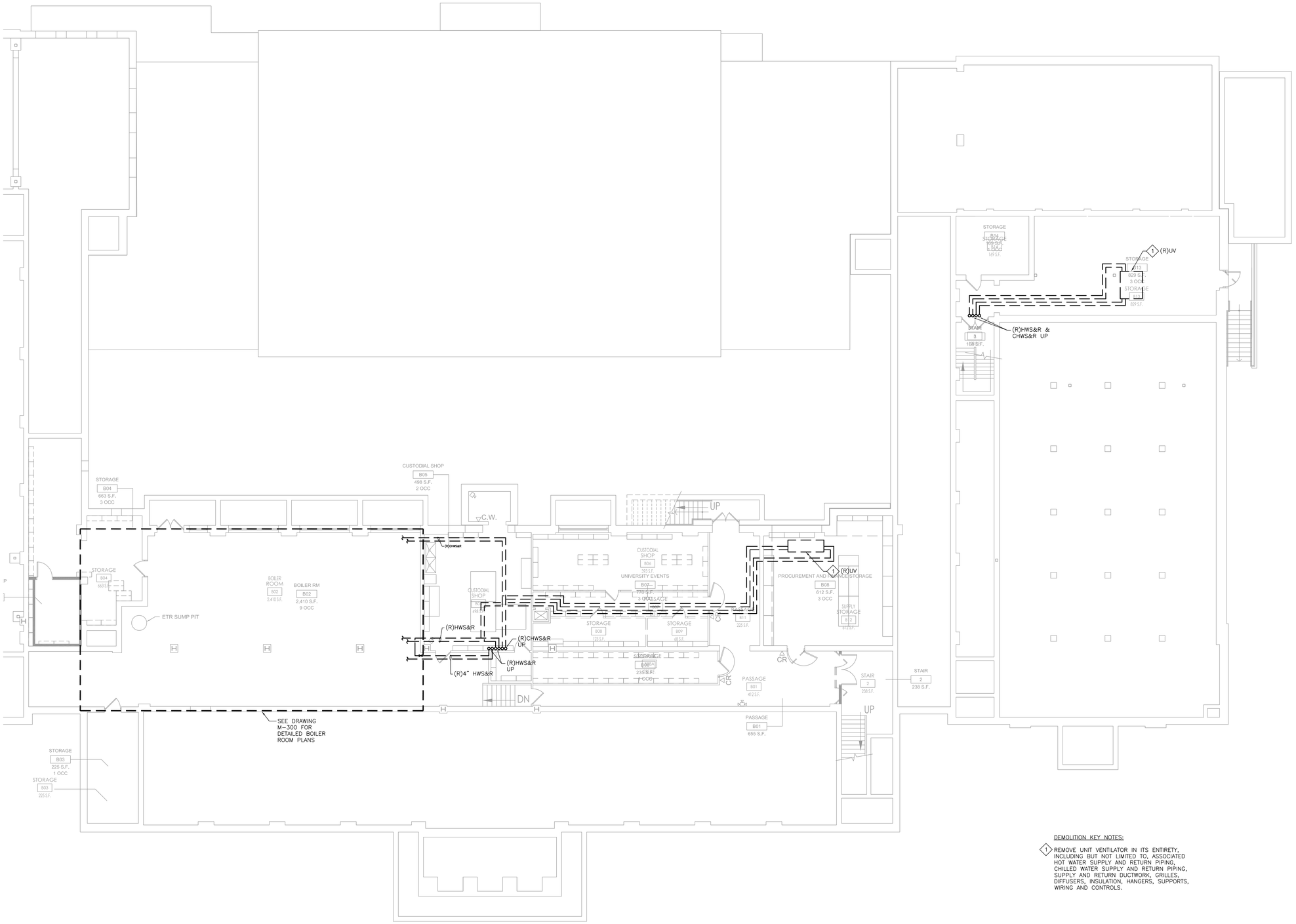

DEMOLITION KEY NOTES:

1. REMOVE UNIT VENTILATOR IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, ASSOCIATED HOT WATER SUPPLY AND RETURN PIPING, CHILLED WATER SUPPLY AND RETURN PIPING, SUPPLY AND RETURN DUCTWORK, GRILLES, DIFFUSERS, INSULATION, HANGERS, SUPPORTS, WIRING AND CONTROLS.

1 MECHANICAL PIPING DEMOLITION BASEMENT FLOOR PLAN

SCALE: 1/8"=1'0"

M/E/P Engineer:

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Consulting M/E/P Engineers

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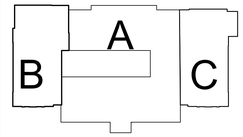

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Glassboro, NJ 08028

Drawing Information:

Project No: 25.024
Date:
Drawn By: TMW
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PIPING DEMO BSMNT

Sheet No:

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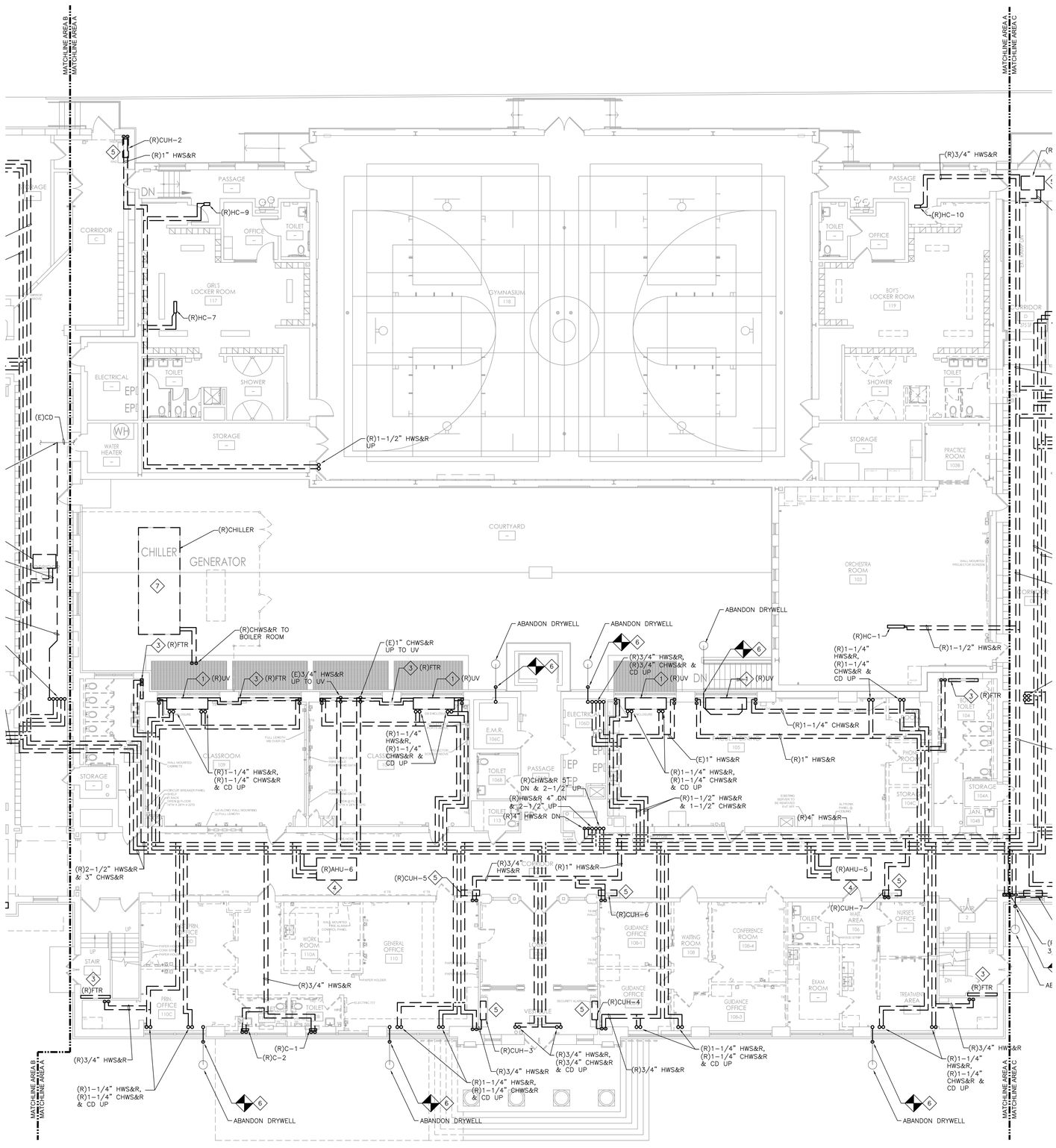


1 MECHANICAL PIPING DEMOLITION FIRST FLOOR PLAN AREA A

SCALE: 1/8"=1'0"

DEMOLITION KEY NOTES:

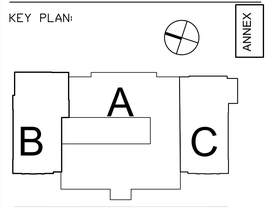
1. REMOVE UNIT VENTILATOR IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, ASSOCIATED HOT WATER SUPPLY AND RETURN PIPING, CHILLED WATER SUPPLY AND RETURN PIPING, WALL BOX, WIRING AND CONTROLS. BLANK OFF EXISTING LOUVER WITH INSULATED SHEET METAL PANEL AND ABANDON.
2. REMOVE FAN COIL UNIT IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, ASSOCIATED HOT WATER SUPPLY AND RETURN PIPING, CHILLED WATER SUPPLY AND RETURN PIPING, SUPPLY AND RETURN DUCTWORK, OUTDOOR AIR LOUVER, INSULATION, HANGERS, SUPPORTS, CONTROLS AND WIRING.
3. REMOVE FIN TUBE RADIATION IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, HOT WATER SUPPLY & RETURN PIPING, COVER, HANGERS, SUPPORTS, AND CONTROLS.
4. REMOVE AIR HANDLING UNIT IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, ASSOCIATED HOT WATER SUPPLY AND RETURN PIPING, CHILLED WATER SUPPLY AND RETURN PIPING, SUPPLY AND RETURN DUCTWORK, OUTDOOR AIR LOUVER, INSULATION, HANGERS, SUPPORTS, CONTROLS AND WIRING.
5. REMOVE CABINET UNIT HEATER IN ITS ENTIRETY, INCOT WATER SUPPLY AND RETURN PIPING, INSULATION, HLUDING BUT NOT LIMITED TO, ASSOCIATED HANGERS, SUPPORTS, CONTROLS AND WIRING.
6. REMOVE CONDENSATE DRAIN TO BELOW GRADE AND CAP. ABANDON DRYWELL BELOW GRADE.
7. REMOVE CHILLER IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, CHILLED WATER SUPPLY & RETURN PIPING, INSULATION, VALVES, HANGERS, SUPPORTS, CONTROLS AND WIRING.

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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Richard D. Alderiso , AIA
NJ RA AI 15023, NY RA 027416, PA RA 405474

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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: TMW
Checked By: RLD

Sheet Name:
PIPING DEMO 1ST FLR

Sheet No:
MD-201A
Sheet 0 of 000

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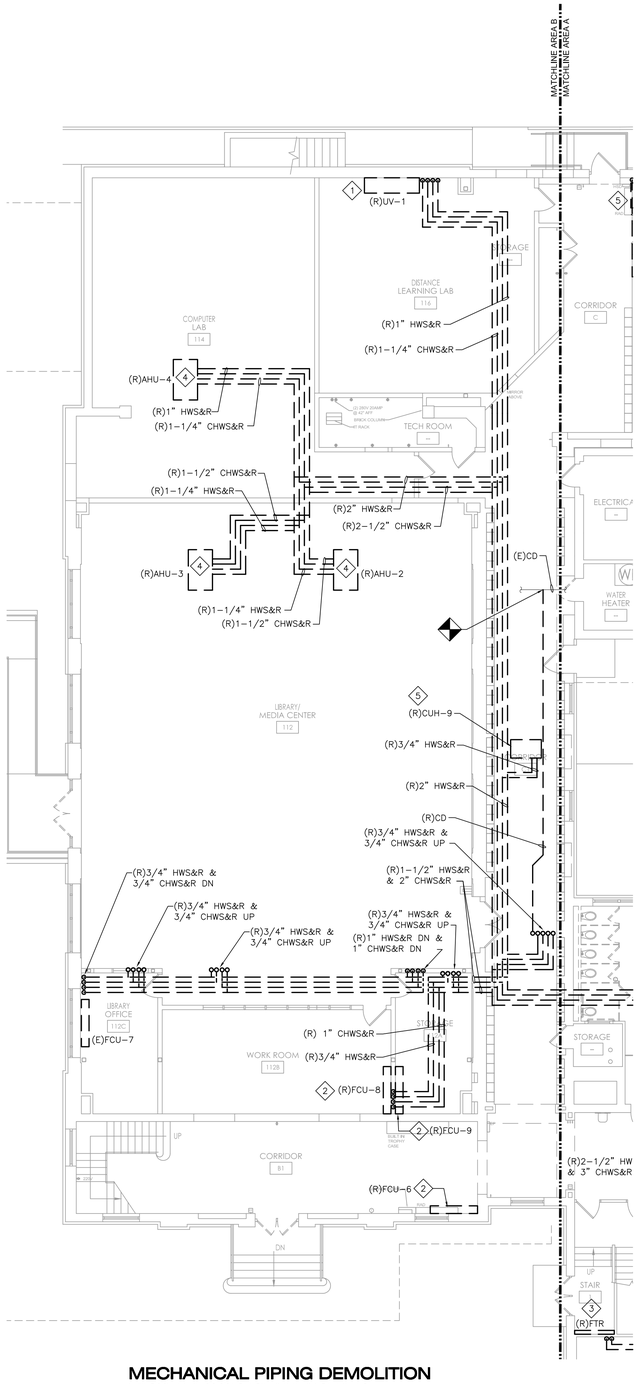
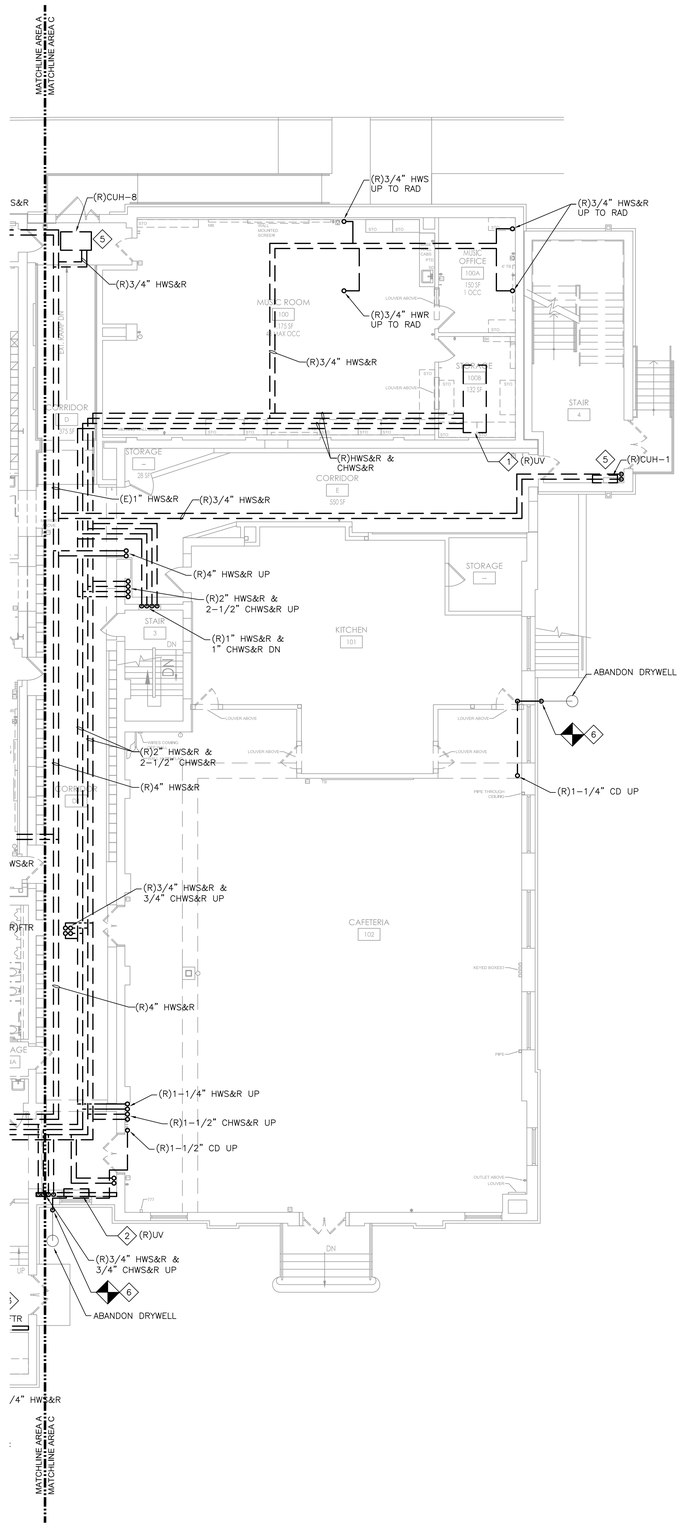
NOTES:

1. REFER TO DRAWING M-001 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.



1 MECHANICAL PIPING DEMOLITION FIRST FLOOR PLAN AREA B

SCALE: 1/8"=1'0"



2 MECHANICAL PIPING DEMOLITION FIRST FLOOR PLAN AREA C

SCALE: 1/8"=1'0"

DEMOLITION KEY NOTES:

1. REMOVE UNIT VENTILATOR IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, ASSOCIATED HOT WATER SUPPLY AND RETURN PIPING, CHILLED WATER SUPPLY AND RETURN PIPING, WALL BOX, WIRING AND CONTROLS. BLANK OFF EXISTING LOUVER WITH INSULATED SHEET METAL PANEL AND ABANDON.
2. REMOVE FAN COIL UNIT IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, ASSOCIATED HOT WATER SUPPLY AND RETURN PIPING, CHILLED WATER SUPPLY AND RETURN PIPING, SUPPLY AND RETURN DUCTWORK, OUTDOOR AIR LOUVER, INSULATION, HANGERS, SUPPORTS, CONTROLS AND WIRING.
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RICHARD L. DELP, PE
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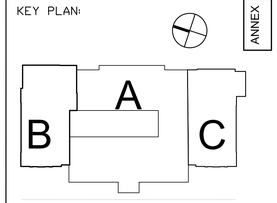
LICENSE NO.: GE45368

KEY PLAN:



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NJ RA AI 15023, NY RA 027416, PA RA 405474

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Project:

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Glassboro, NJ 08028

Drawing Information:

Project No: 25.024
Date:
Drawn By: TMW
Checked By: RLD

Sheet Name:

PIPING DEMO 1ST FLR

Sheet No:

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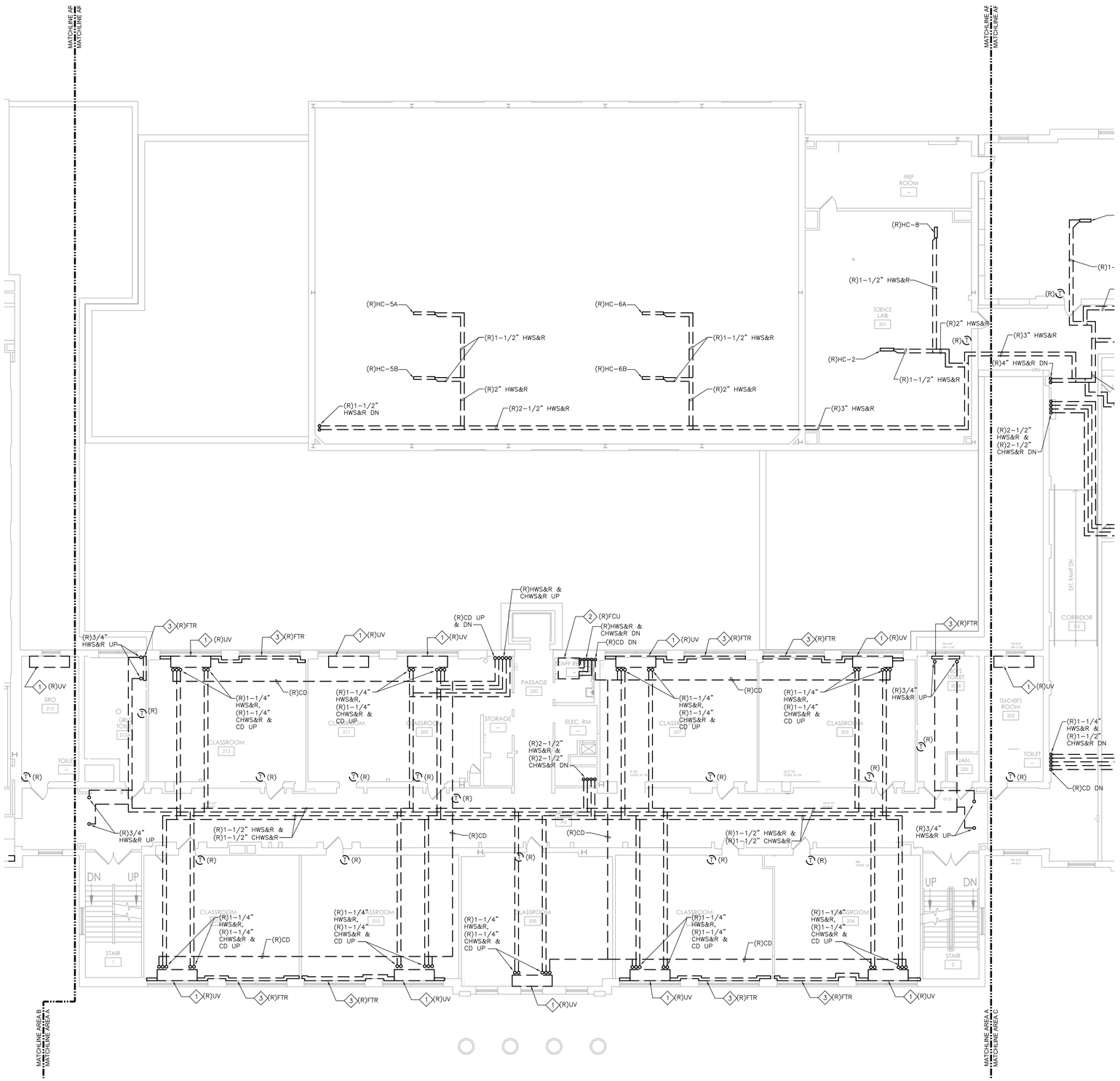

1 MECHANICAL PIPING DEMOLITION SECOND FLOOR PLAN PART A

SCALE: 1/8"=1'0"

DEMOLITION KEY NOTES:

1. REMOVE UNIT VENTILATOR IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, ASSOCIATED HOT WATER SUPPLY AND RETURN PIPING, CHILLED WATER SUPPLY AND RETURN PIPING, WALL BOX, WIRING AND CONTROLS. BLANK OFF EXISTING LOUVER WITH INSULATED SHEET METAL PANEL AND ABANDON.
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LICENSE NO.: GE45368

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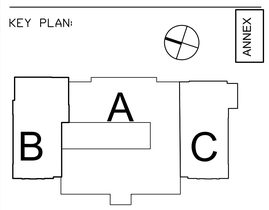

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Drawing Information:
Project No: 25.024
Date:
Drawn By: TMW
Checked By: RLD

Sheet Name:
PIPING DEMO 2ND FLR

Sheet No:
MD-202A
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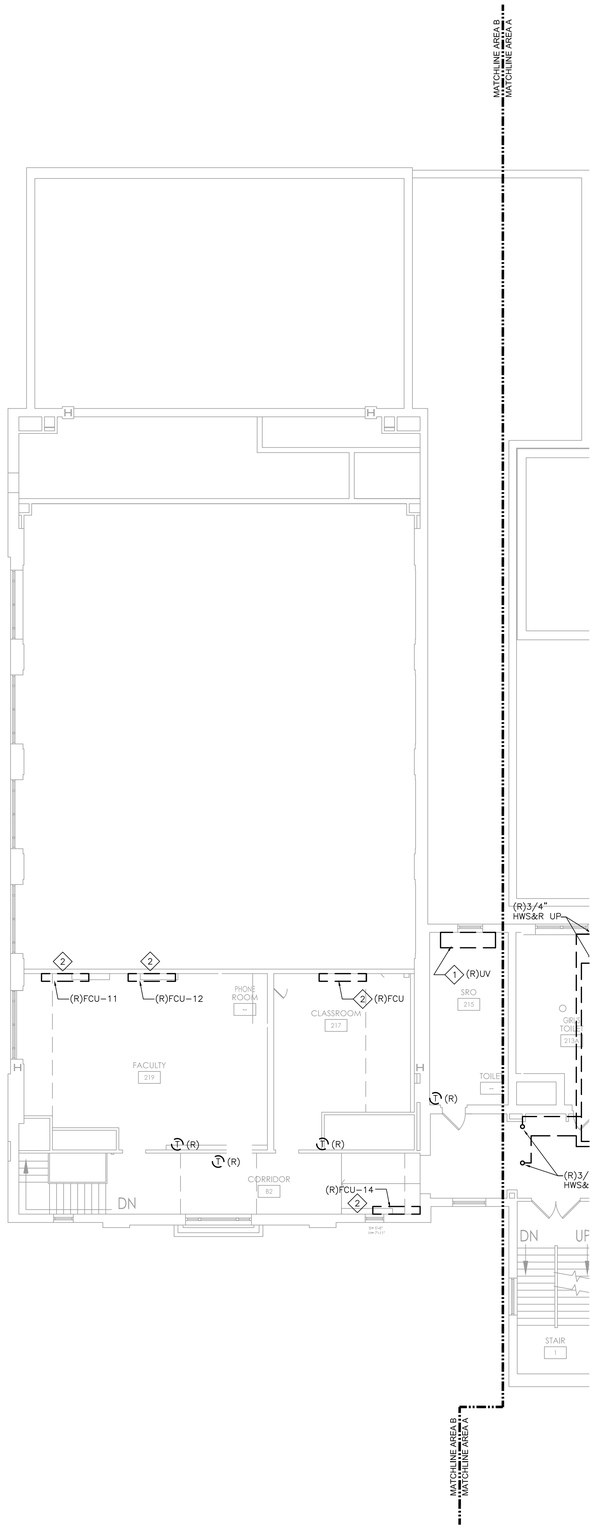
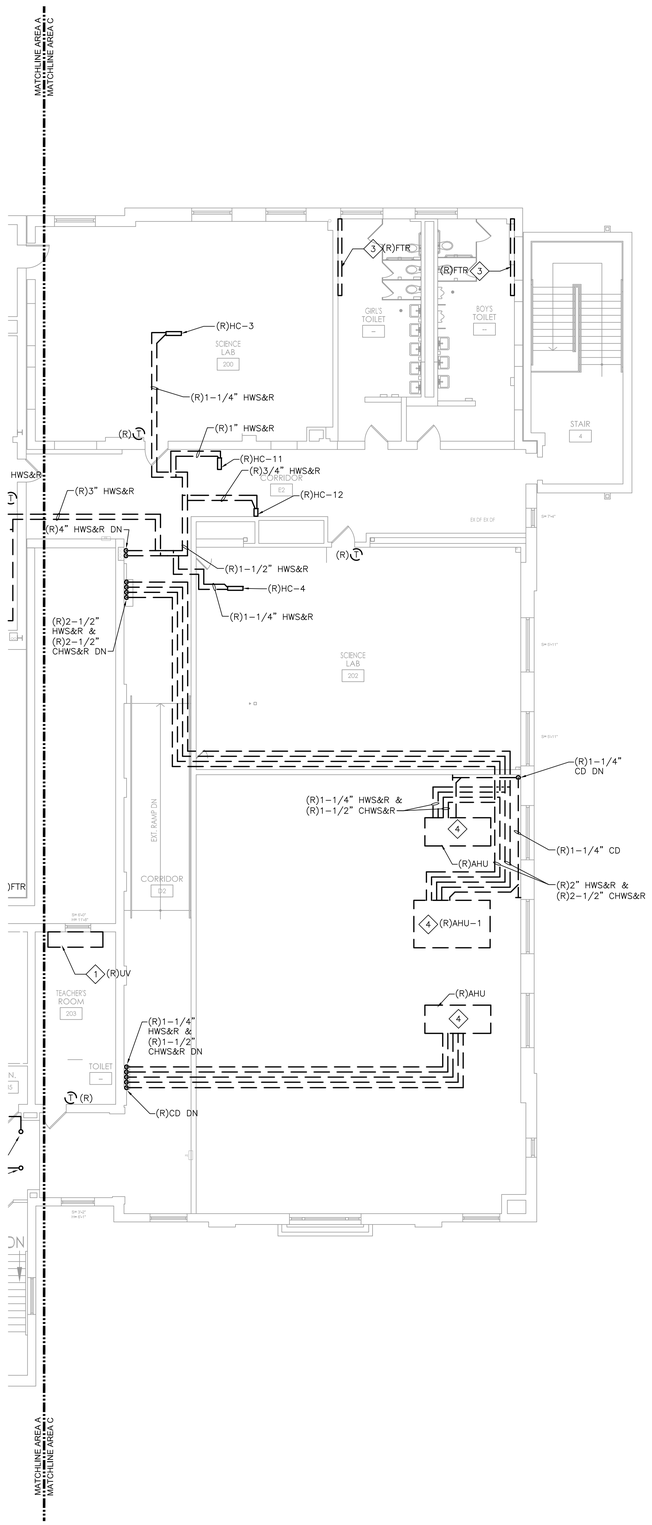


1 MECHANICAL PIPING DEMOLITION SECOND FLOOR PLAN AREA B

SCALE: 1/8"=1'0"



2 MECHANICAL PIPING DEMOLITION SECOND FLOOR PLAN AREA C

SCALE: 1/8"=1'0"

DEMOLITION KEY NOTES:

1. REMOVE UNIT VENTILATOR IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, ASSOCIATED HOT WATER SUPPLY AND RETURN PIPING, CHILLED WATER SUPPLY AND RETURN PIPING, WALL BOX, WIRING AND CONTROLS. BLANK OFF EXISTING LOUVER WITH INSULATED SHEET METAL PANEL AND ABANDON.
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M/E/P Engineer:

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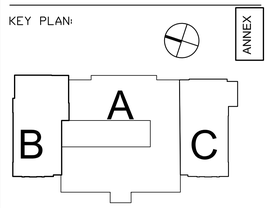
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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NJ RA AI 15023, NY RA 027416, PA RA 405474

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Project:
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Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: TMW
Checked By: RLD

Sheet Name:
PIPING DEMO 2ND FLR

Sheet No:
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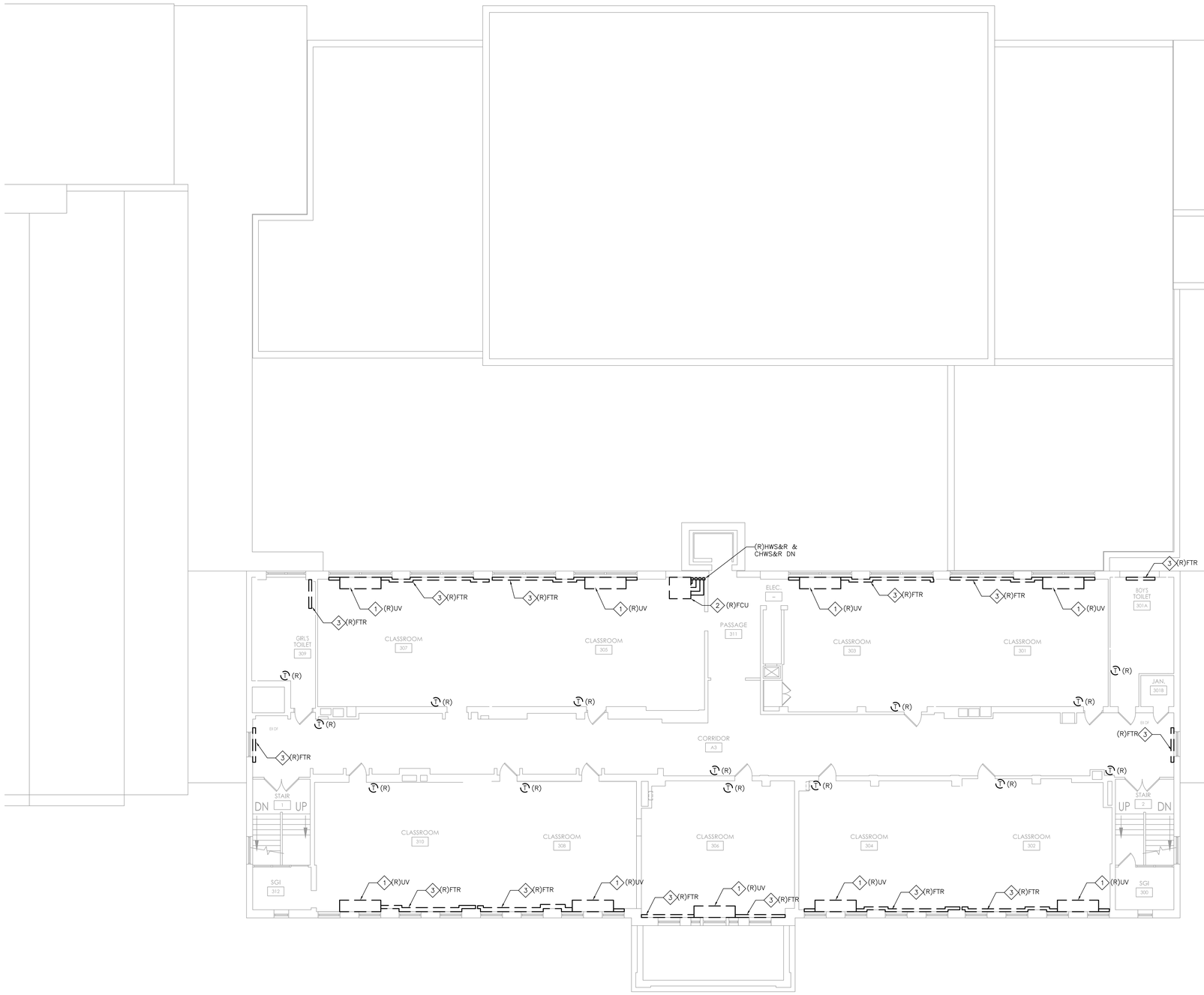

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3. REMOVE FIN TUBE RADIATION IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, HOT WATER SUPPLY & RETURN PIPING, COVER, HANGERS, SUPPORTS, AND CONTROLS.

1 MECHANICAL PIPING DEMOLITION THIRD FLOOR PLAN

SCALE: 1/8"=1'0"

M/E/P Engineer:

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Consulting M/E/P Engineers
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S&H JOB #2528A

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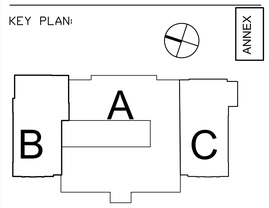
LICENSE NO.: GE45368

KEY PLAN:



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NJ RA AI 15023, NY RA 027416, PA RA 405474

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Client:
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201 Mullica Hill Rd.
Glassboro, NJ 08028

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BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: TMW
Checked By: RLD

Sheet Name:
PIPING DEMO 3RD FLR

Sheet No:
MD-203
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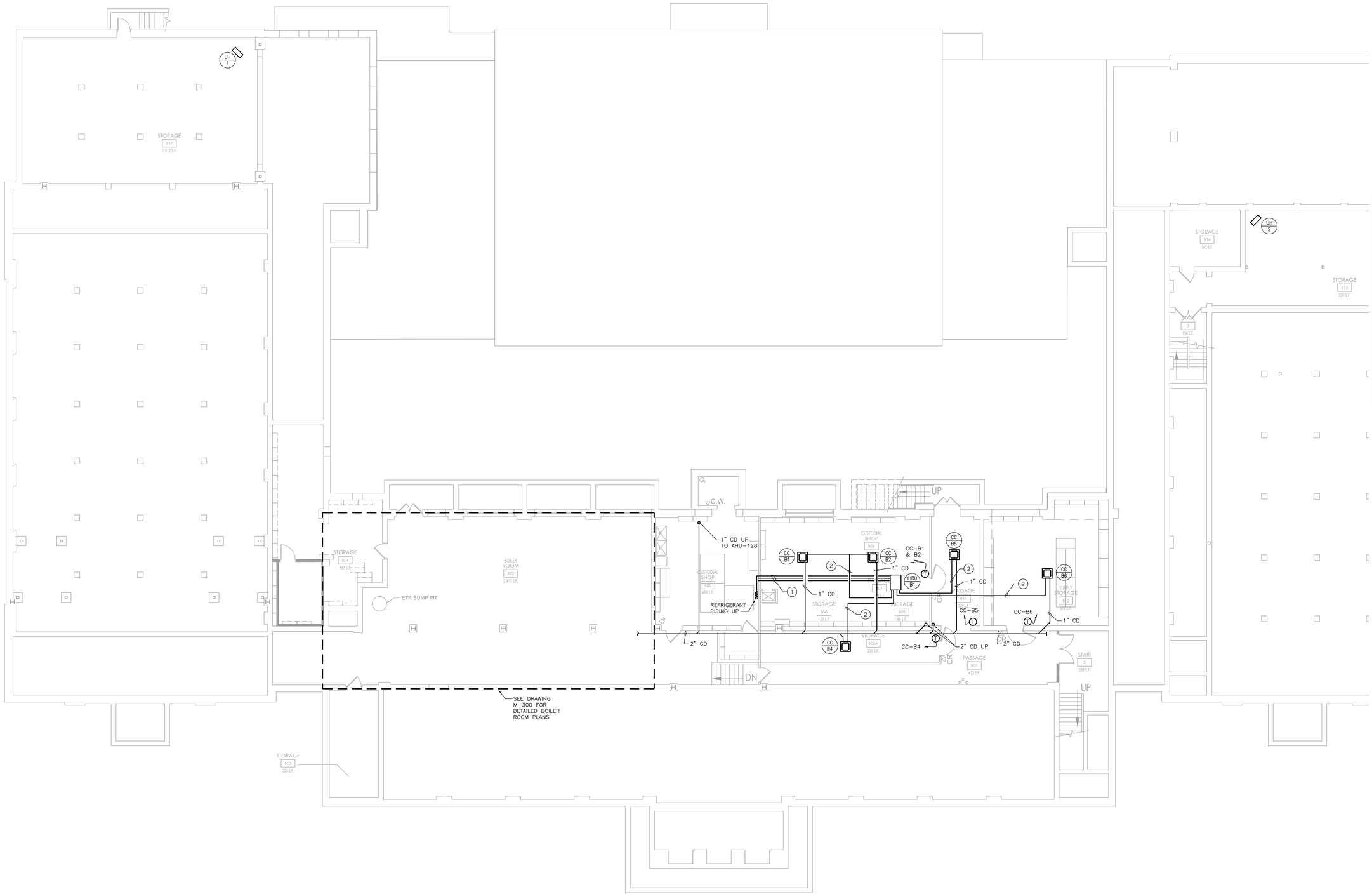
NEW WORK KEY NOTES:

1. REFRIGERANT SUCTION, LIQUID, AND HEAT RECOVERY PIPING FROM ROOF MOUNTED OUTDOOR HEAT RECOVERY UNIT TO INDOOR HEAT RECOVERY UNITS. ALL PIPING TO BE SIZED PER MANUFACTURERS RECOMMENDATIONS.
2. REFRIGERANT SUCTION & LIQUID PIPING FROM INDOOR HEAT RECOVERY UNITS TO AIR HANDLING UNITS. ALL PIPING TO BE SIZED PER MANUFACTURERS RECOMMENDATIONS.

NOTES:

1. REFER TO DRAWING M-001 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.



1 MECHANICAL NEW WORK BASEMENT FLOOR PLAN

SCALE: 1/8"=1'0"

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
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Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
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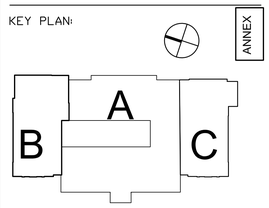
LICENSE NO.: GE45368

KEY PLAN:



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Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
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Checked By: RLD

Sheet Name:
MECH BASEMENT PLAN

Sheet No:
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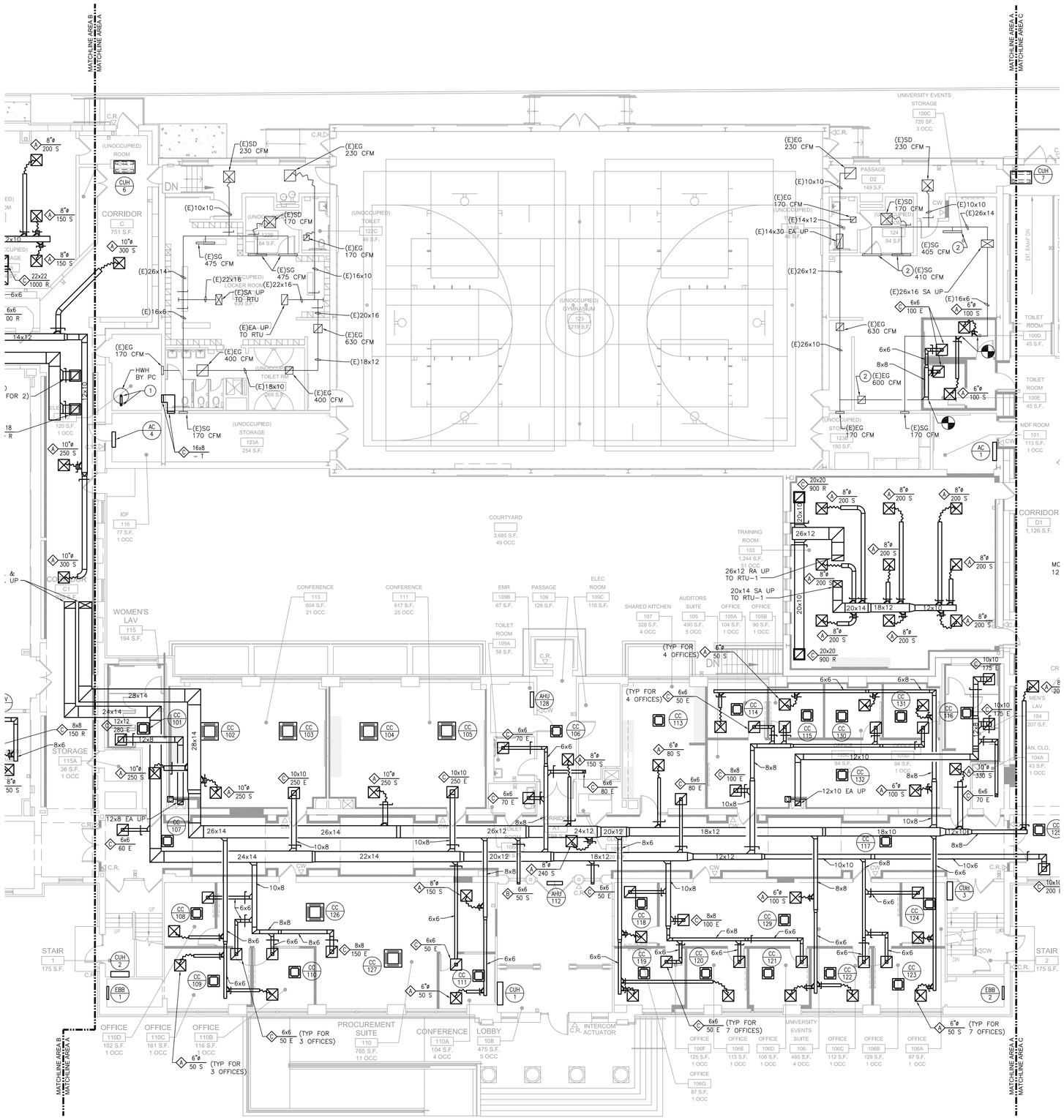
NOTES:

1. REFER TO DRAWING M-001 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.

NEW WORK KEY NOTES:

(1) 3"ø PVC VENT AND INTAKE FROM WATER HEATER TO ROOF. PROVIDE CONCENTRIC VENT KIT BRADFORD WHITE PART NUMBER 415-44069-01. REFER TO DETAIL 6 ON DRAWING M602.

(2) REBALANCE EXISTING SUPPLY/EXHAUST GRILLE IN STORAGE 100C TO VALUE AS SHOWN.



1 MECHANICAL DUCTWORK NEW WORK FIRST FLOOR PLAN AREA A

SCALE: 1/8"=1'0"

M/E/P Engineer:

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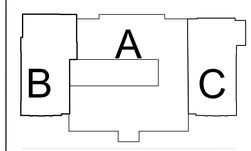

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MECH DUCTWORK 1ST FLR

Sheet No:

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NOTES:

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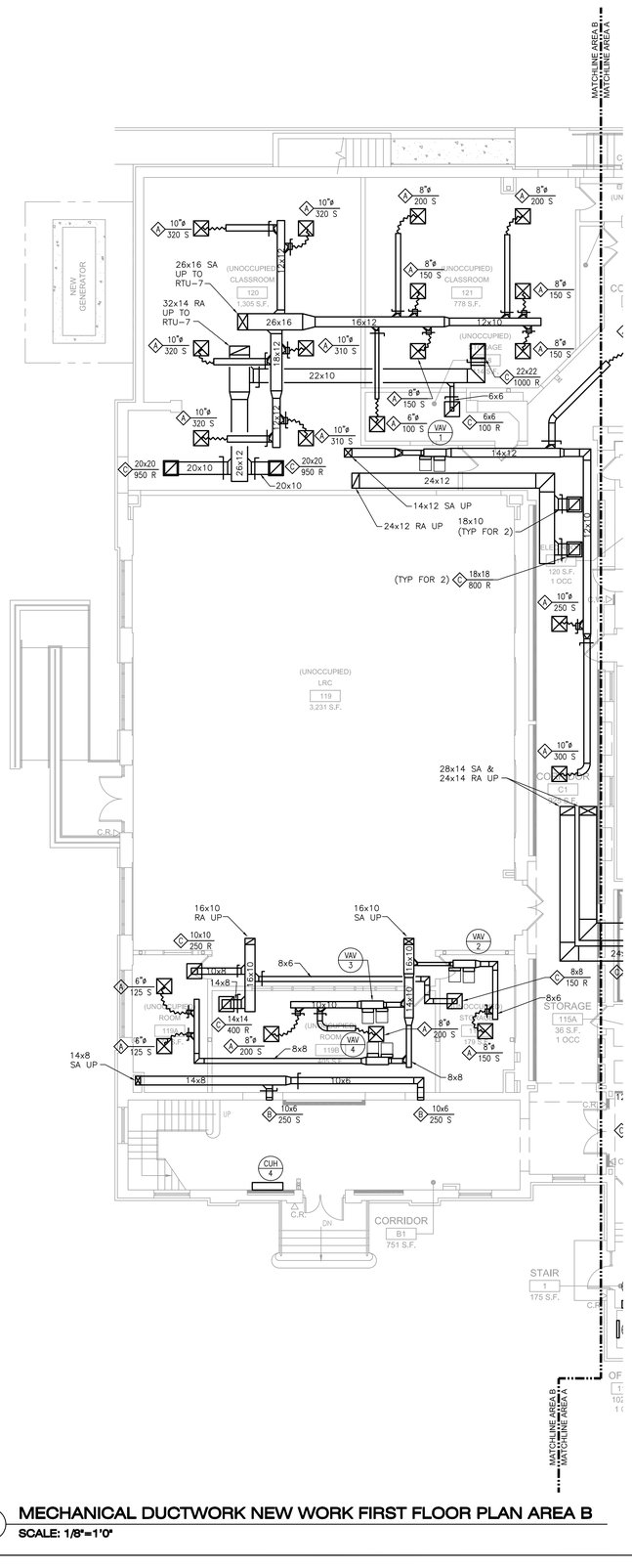
NEW WORK KEY NOTES:

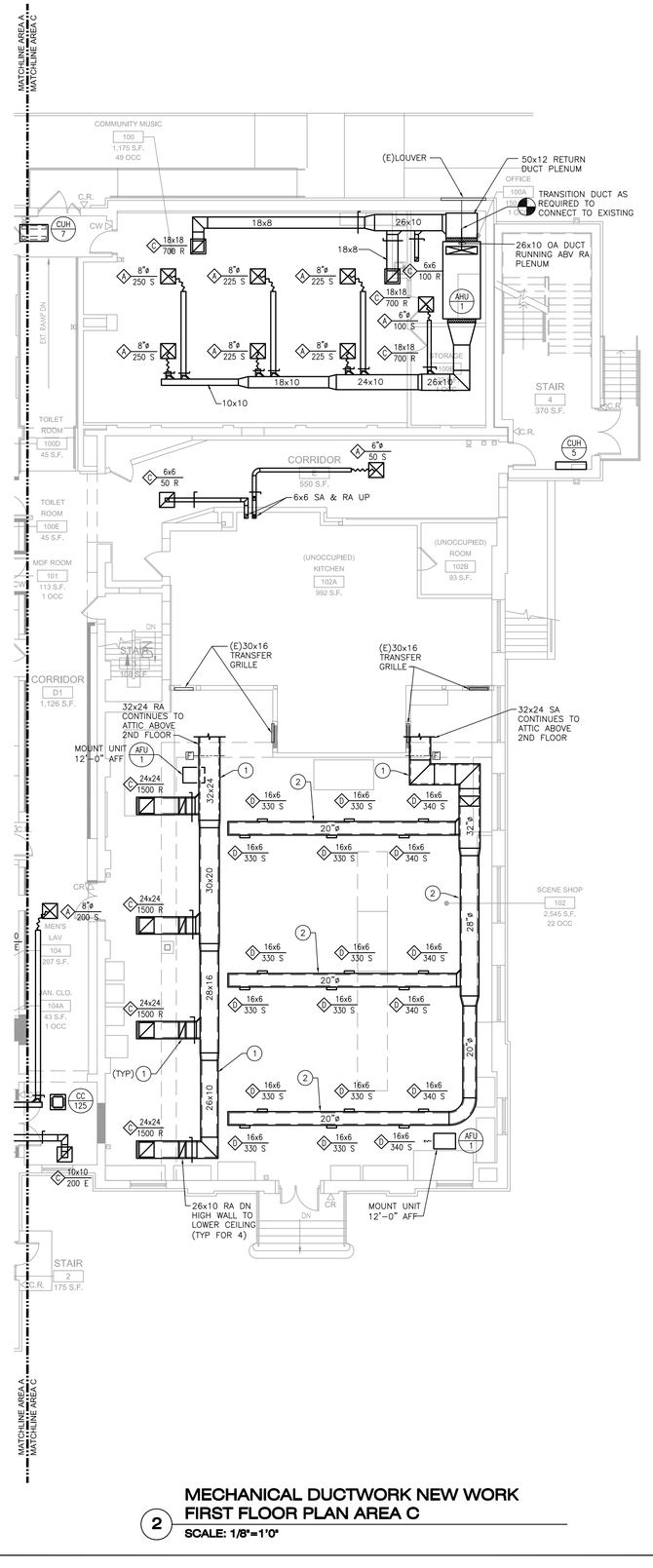
(1) ALL EXPOSED DUCTWORK TO BE INTERNALLY LINED AND PAINTED IN THE COLOR AS SELECTED BY ARCHITECT.

(2) EXPOSED SPIRAL DUCT TO BE DOUBLE WALL SPIRAL DUCT WITH 1" INSULATION BETWEEN WALLS. PROVIDE DUCT AS PAINTABLE GALVANEAL. PAINT EXTERIOR OF DUCT AS SELECTED BY ARCHITECT.



1 MECHANICAL DUCTWORK NEW WORK FIRST FLOOR PLAN AREA B

SCALE: 1/8"=1'0"



2 MECHANICAL DUCTWORK NEW WORK FIRST FLOOR PLAN AREA C

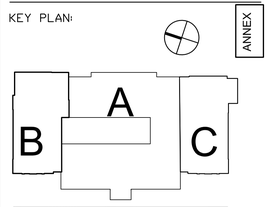
SCALE: 1/8"=1'0"

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



ANNEX

No.	Date	Description
	12/08/25	OUT TO BID
	12/03/25	DCA Submission

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Richard D. Alderiso , AIA
NJ RA AI 15023, NY RA 027416, PA RA 405474

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Client:

Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:

Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:

Project No: 25.024
Date:
Drawn By: TMW
Checked By: RLD

Sheet Name:

MECH DUCTWORK 1ST FLR

Sheet No:

M-101B

Sheet 0 of 000

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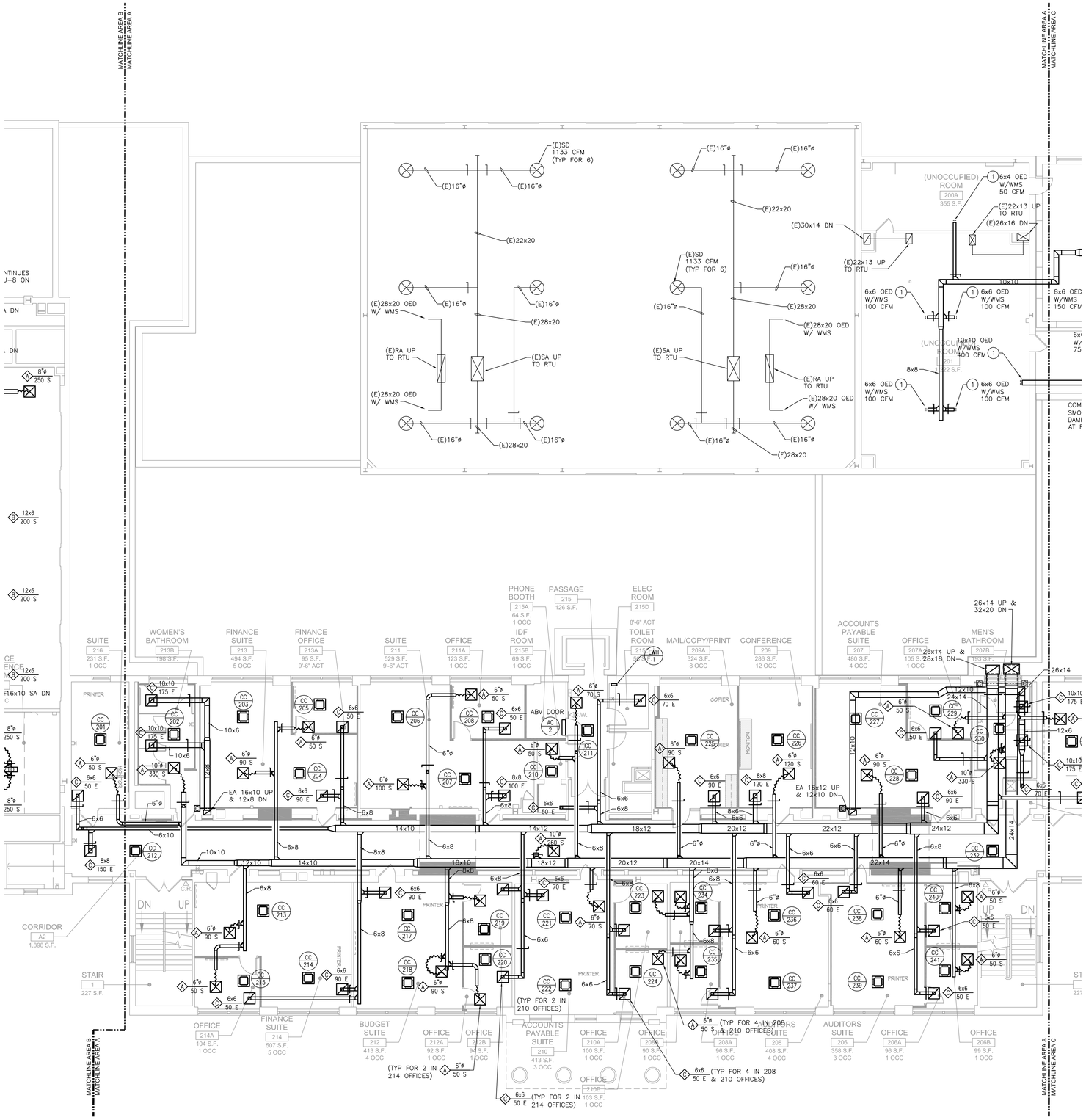
NOTES:

1. REFER TO DRAWING M-001 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.

NEW WORK KEY NOTES:

(1) SHELL SPACE TO BE PROVIDED WITH DUCTWORK AS SHOWN. TERMINATIONS TO BE OPEN ENDED DUCTS WITH WIRE MESH SCREEN. BALANCE OPEN DUCTS TO VALUES AS INDICATED.



1 MECHANICAL DUCTWORK NEW WORK SECOND FLOOR PLAN AREA A

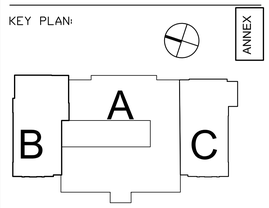
SCALE: 1/8"=1'0"

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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Richard D. Alderiso , AIA
NJ RA AI 15023, NY RA 027416, PA RA 405474

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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: TMW
Checked By: RLD

Sheet Name:
MECH DUCTWORK 2ND FLR

Sheet No:
M-102A
Sheet 0 of 000

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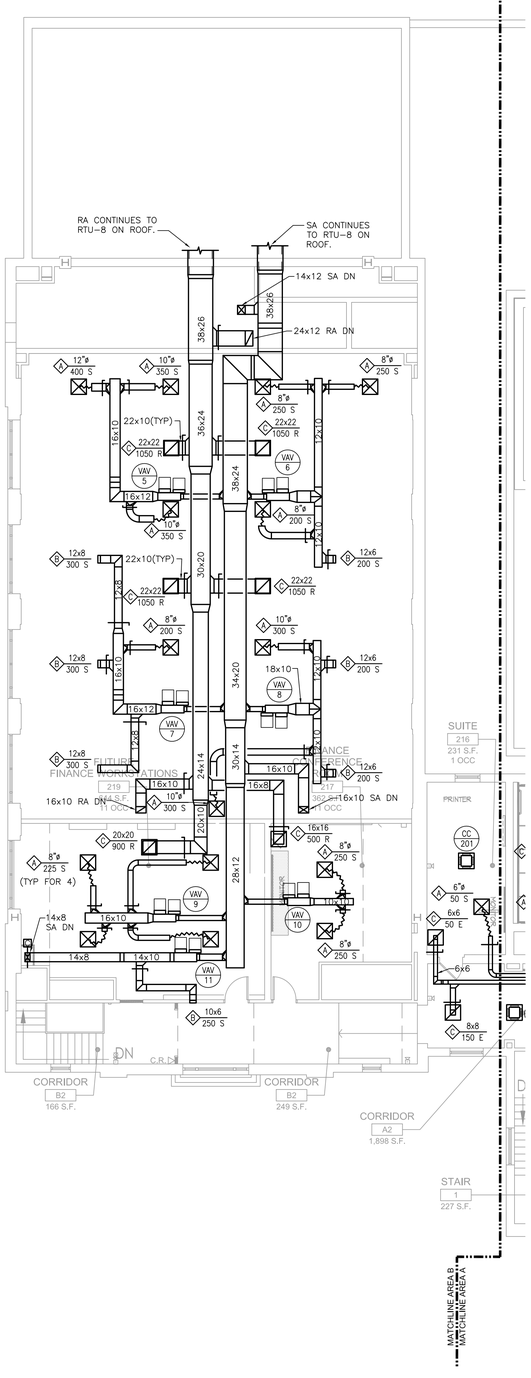
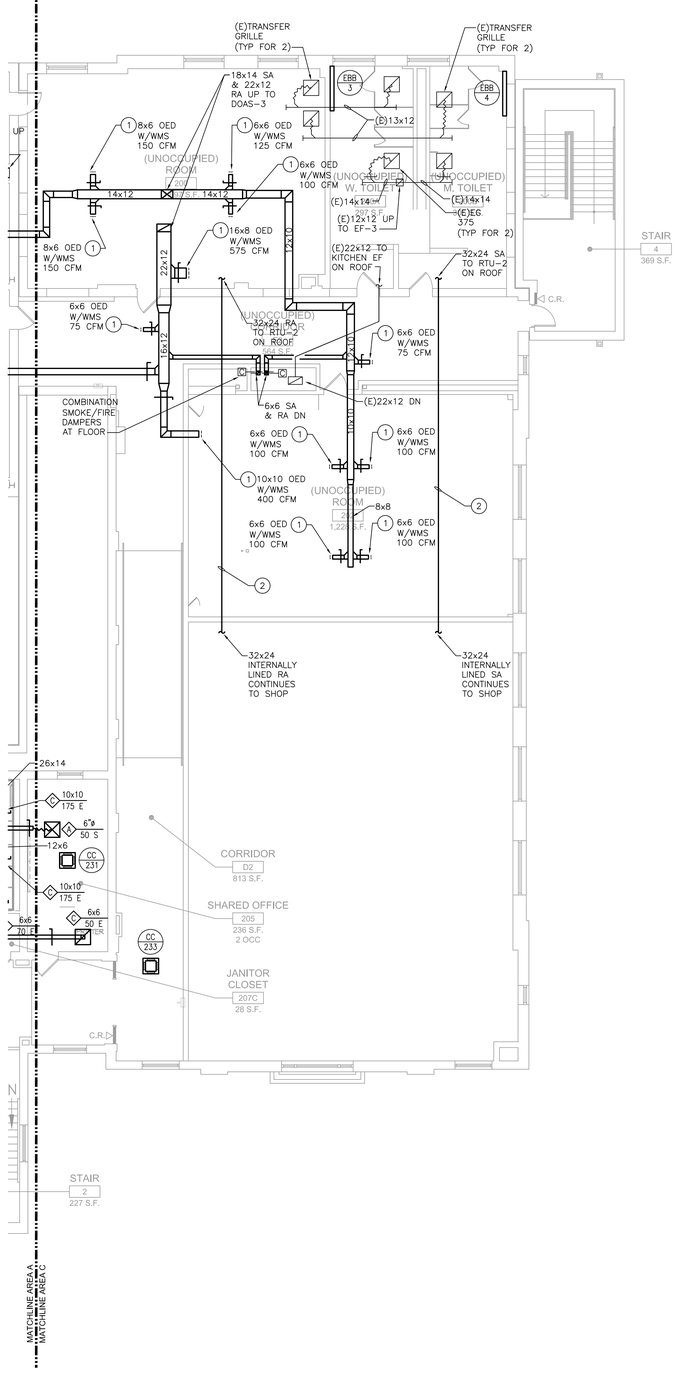
1. REFER TO DRAWING M-001 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.



1 MECHANICAL DUCTWORK NEW WORK SECOND FLOOR PLAN AREA B

SCALE: 1/8"=1'0"



2 MECHANICAL DUCTWORK NEW WORK SECOND FLOOR PLAN AREA C

SCALE: 1/8"=1'0"

NEW WORK KEY NOTES:

1. SHELL SPACE TO BE PROVIDED WITH DUCTWORK AS SHOWN. TERMINATIONS TO BE OPEN ENDED DUCTS WITH WIRE MESH SCREEN. BALANCE OPEN DUCTS TO VALUES AS INDICATED.
2. 30x20 INTERNALLY LINED SUPPLY & RETURN DUCT FROM RTU-2 RUNNING IN ATTIC ABOVE SECOND FLOOR. DUCT RUNS THROUGH ATTIC TO SCENE SHOP 102.

M/E/P Engineer:

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Consulting M/E/P Engineers
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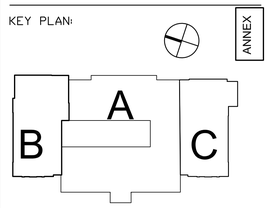
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: TMW
Checked By: RLD

Sheet Name:
MECH DUCTWORK 2ND FLR

Sheet No:
M-102B
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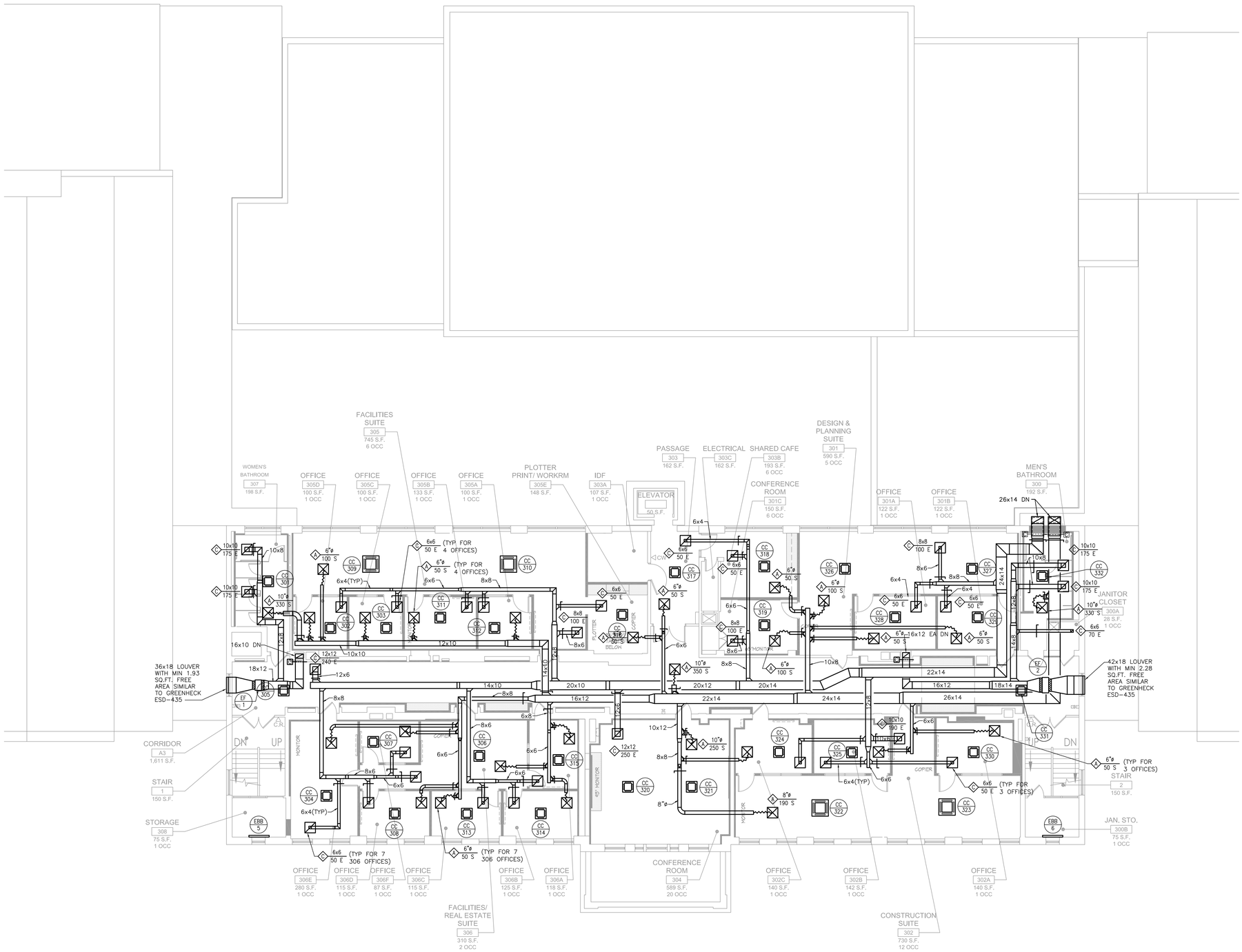

1 MECHANICAL DUCTWORK NEW WORK THIRD FLOOR PLAN

SCALE: 1/8"=1'0"

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers

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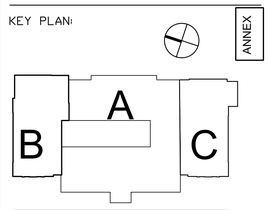
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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NJ RA AI 15023, NY RA 027416, PA RA 405474

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Client:

Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:

Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:

Project No: 25.024
Date:
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Sheet Name:

MECH DUCTWORK 3RD FLR

Sheet No:

M-103

Sheet 0 of 000

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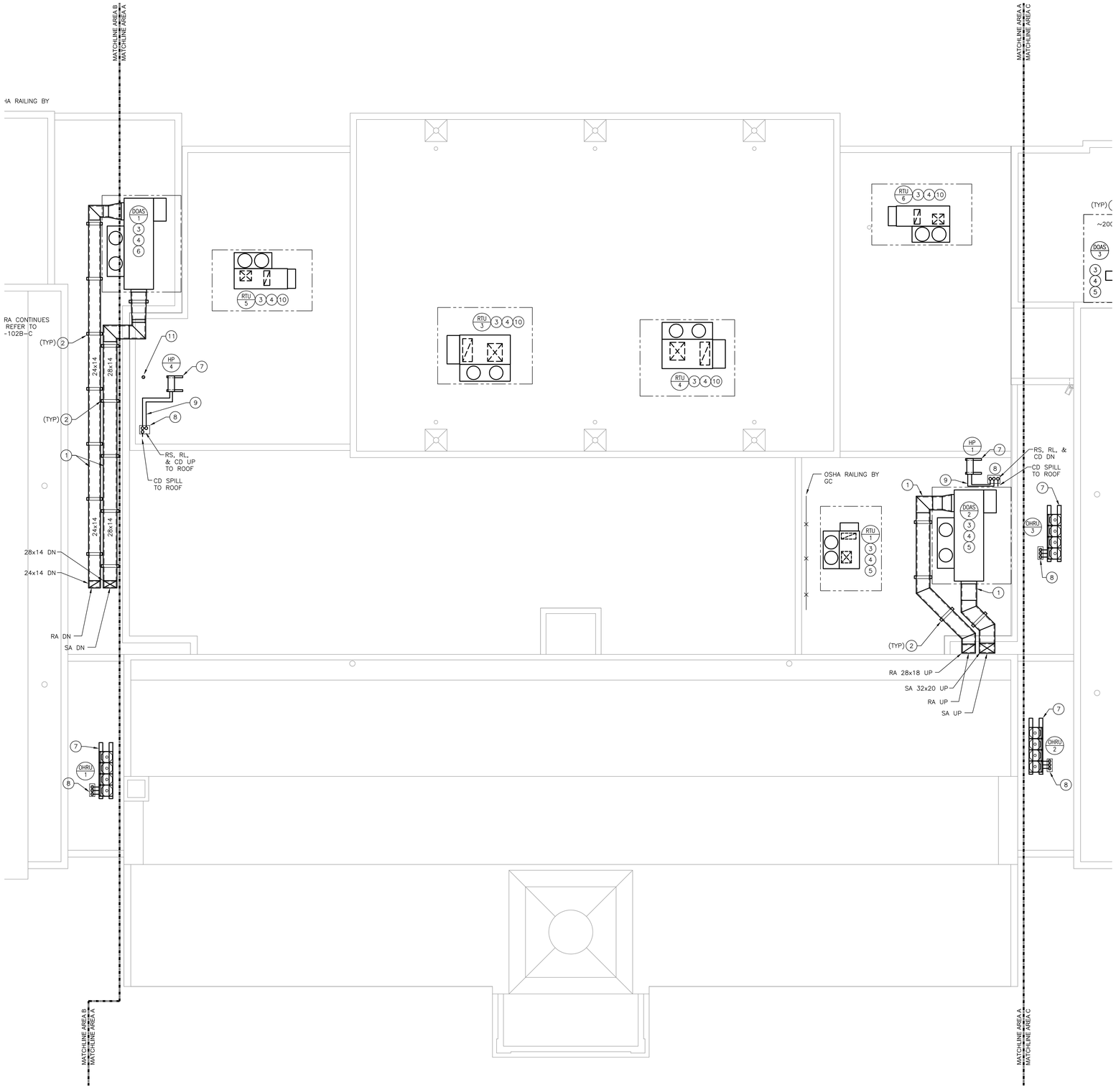


1 MECHANICAL NEW WORK ROOF PLAN AREA A
SCALE: 1/8"=1'0"

NEW WORK KEY NOTES:

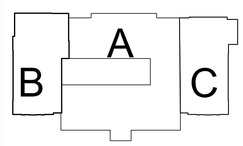
1. PROVIDE ALL NEW EXTERIOR ROOF TOP DUCTWORK AS PRE-MANUFACTURED DUAL-TECH SYSTEM, IN COLOR SELECTED BY ARCHITECT.
2. DUCT SUPPORT SIMILAR TO MIRO INDUSTRIES 8-DS-SB. PROVIDE AND PLACE ROOF DUCT SUPPORTS ON SUPPORT PADS THAT ARE MANUFACTURED BY THE ROOF MANUFACTURER. SPACE SUPPORTS PER MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE CONDENSATE DRAIN THE SAME SIZE AS THE UNIT CONNECTION WITH A P-TRAP OF SUFFICIENT SEAL DEPTH TO OVERCOME UNIT STATIC PRESSURE AND EXTEND TO NEAREST ROOF DRAIN.
4. TRANSITION SUPPLY & RETURN DUCT AS REQUIRED TO UNIT OPENING AND PROVIDE FLEXIBLE CONNECTION.
5. PROVIDE 18" HIGH CURB FOR ROOFTOP UNITS. STUFF CAVITY OF CURB WITH BATT INSULATION.
6. ROOFTOP UNIT TO BE MOUNTED ON NEW ROOFTOP DUNNAGE. REFER TO STRUCTURAL PLANS FOR ADDITIONAL INFORMATION ON DUNNAGE.
7. EQUIPMENT SUPPORTS SIMILAR TO PATE MODEL ES. PROVIDE SUPPORT AT EACH END OF UNIT AND ANCHOR UNIT TO SUPPORTS. ANCHOR SUPPORTS TO STRUCTURE AND FLASH ROOF. EQUIPMENT SUPPORT TO EXTEND PAST CONDENSING UNIT BY MINIMUM 1'-6" FOR MOUNTING OF DISCONNECT SWITCH, RECEPTACLE & LIGHT BY EC. COORDINATE ROOF WORK WITH ARCHITECTURAL DRAWINGS.
8. REFRIGERANT PIPING DN TO AC UNIT, SIZE PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE PIPE CURB ASSEMBLY SIMILAR TO ALTA PRODUCTS SIGRIST PIPE CHASE HOUSING. PROVIDE SIGRIST EXIST SEALS AS REQUIRED FOR NEW REFRIGERANT PIPING AND ELECTRICAL CONDUITS. COORDINATE WITH EC FOR LOCATIONS AND QUANTITY OF CONDUITS. CUT OPENINGS AS REQUIRED. ANCHOR CURB TO STRUCTURE AND FLASH ROOF.
9. PROVIDE POLYCARBONATE PIPE SUPPORTS SIMILAR TO MIRO INDUSTRIES MODEL 3-RAH-7 FOR PIPING ON ROOF. PROVIDE AND PLACE ROOF PIPING SUPPORTS ON SUPPORT PADS THAT ARE MANUFACTURED BY THE ROOF MANUFACTURER. SPACE SUPPORTS PER MANUFACTURER'S RECOMMENDATIONS.
10. PROVIDE ROOFTOP UNIT WITH ADAPTER CURB TO ALLOW NEW ROOFTOP UNIT TO BE INSTALLED ON EXISTING CURB.
11. CONCENTRIC VENT TERMINATION SERVING HWH-1. REFER TO DETAIL 6 ON DRAWING M602 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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Richard D. Alderiso , AIA
NJ RA AI 15023, NY RA 027416, PA RA 405474

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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: TMW
Checked By: RLD

Sheet Name:
MECH ROOF PLAN

Sheet No:
M-104A
Sheet 0 of 000

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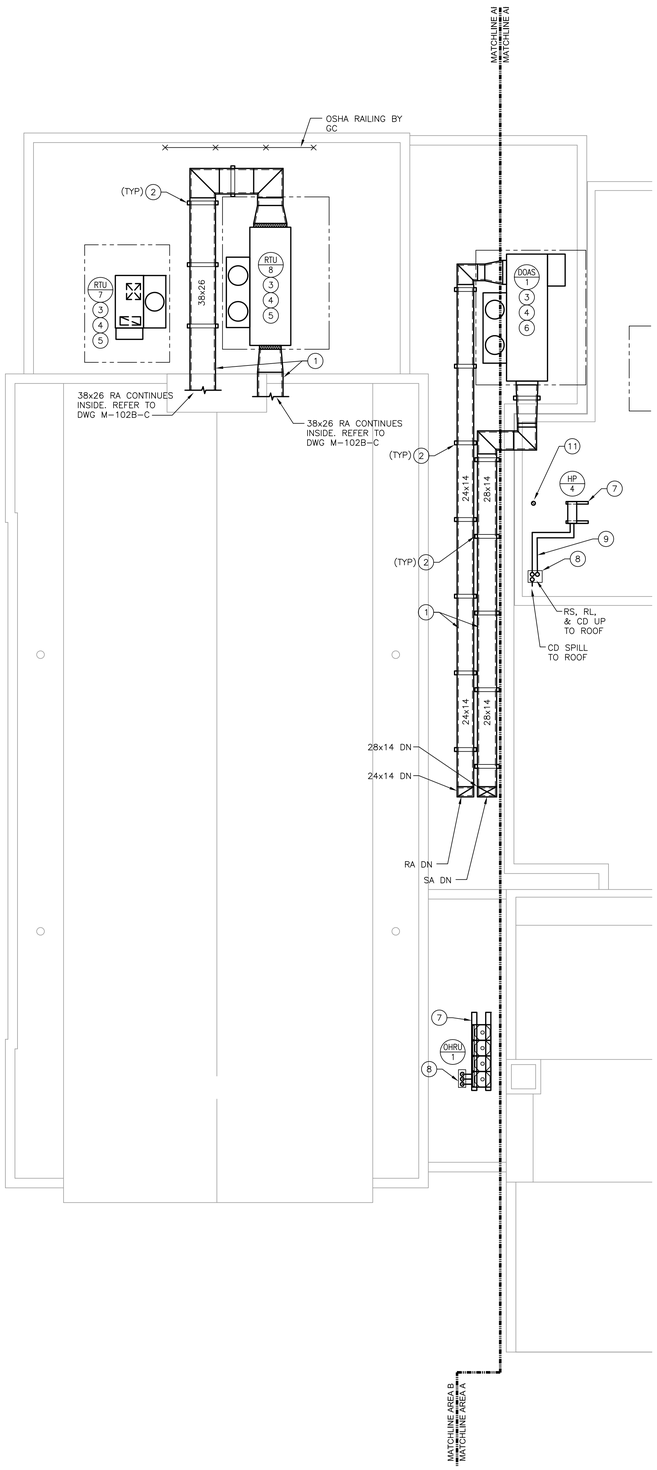
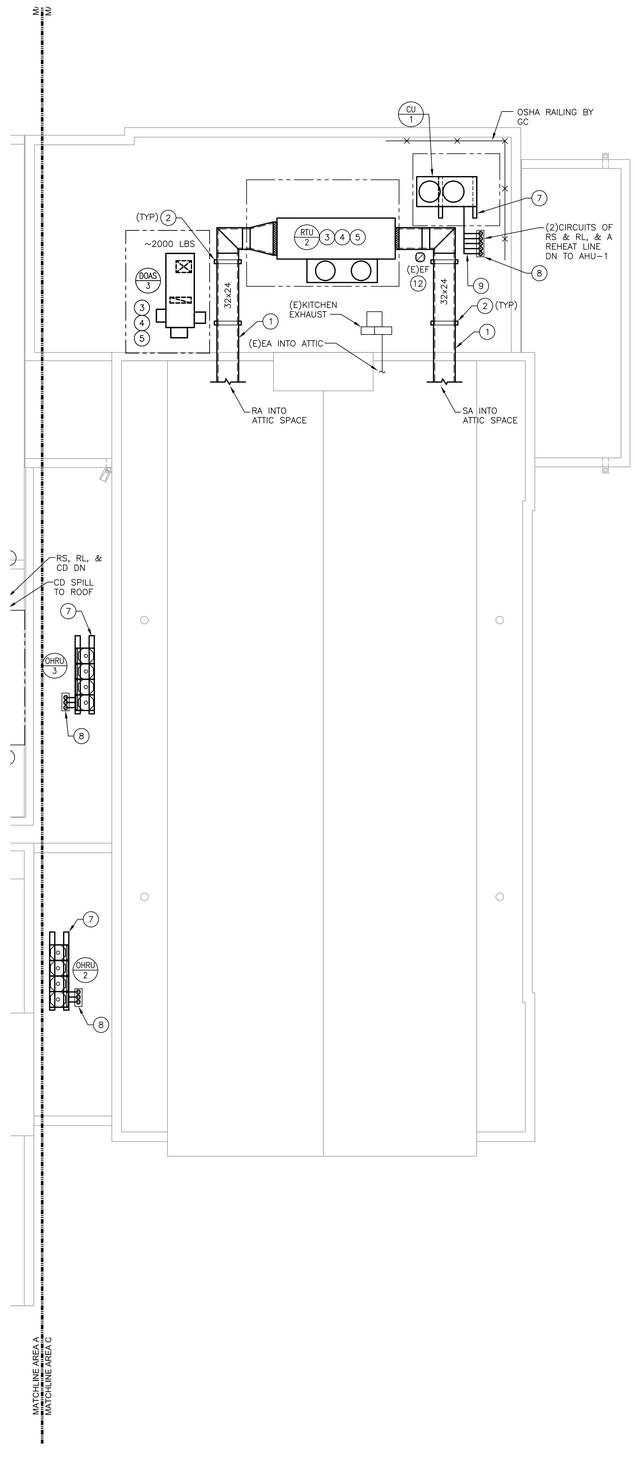
NOTES:

1. REFER TO DRAWING M-001 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.



1 MECHANICAL NEW WORK ROOF PLAN AREA B

SCALE: 1/8"=1'0"



2 MECHANICAL NEW WORK ROOF PLAN AREA C

SCALE: 1/8"=1'0"

NEW WORK KEY NOTES:

1. PROVIDE ALL NEW EXTERIOR ROOF TOP DUCTWORK AS PRE-MANUFACTURED DUAL-TECH SYSTEM, IN COLOR SELECTED BY ARCHITECT.
2. DUCT SUPPORT SIMILAR TO MIRO INDUSTRIES 8-DS-SB. PROVIDE AND PLACE ROOF DUCT SUPPORTS ON SUPPORT PADS THAT ARE MANUFACTURED BY THE ROOF MANUFACTURER. SPACE SUPPORTS PER MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE CONDENSATE DRAIN THE SAME SIZE AS THE UNIT CONNECTION WITH A P-TRAP OF SUFFICIENT SEAL DEPTH TO OVERCOME UNIT STATIC PRESSURE AND EXTEND TO NEAREST ROOF DRAIN.
4. TRANSITION SUPPLY & RETURN DUCT AS REQUIRED TO UNIT OPENING AND PROVIDE FLEXIBLE CONNECTION.
5. PROVIDE 18" HIGH CURB FOR ROOFTOP UNITS. STUFF CAVITY OF CURB WITH BATT INSULATION.
6. ROOFTOP UNIT TO BE MOUNTED ON NEW ROOFTOP DUNNAGE. REFER TO STRUCTURAL PLANS FOR ADDITIONAL INFORMATION ON DUNNAGE.
7. EQUIPMENT SUPPORTS SIMILAR TO PATE MODEL ES. PROVIDE SUPPORT AT EACH END OF UNIT AND ANCHOR UNIT TO SUPPORTS. ANCHOR SUPPORTS TO STRUCTURE AND FLASH ROOF. EQUIPMENT SUPPORT TO EXTEND PAST CONDENSING UNIT BY MINIMUM 1'-6" FOR MOUNTING OF DISCONNECT SWITCH, RECEPTACLE & LIGHT BY EC. COORDINATE ROOF WORK WITH ARCHITECTURAL DRAWINGS.
8. REFRIGERANT PIPING DN TO AC UNIT, SIZE PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE PIPE CURB ASSEMBLY SIMILAR TO ALTA PRODUCTS SIGRIST PIPE CHASE HOUSING. PROVIDE SIGRIST EXIT SEALS AS REQUIRED FOR NEW REFRIGERANT PIPING AND ELECTRICAL CONDUITS. COORDINATE WITH EC FOR LOCATIONS AND QUANTITY OF CONDUITS. CUT OPENINGS AS REQUIRED. ANCHOR CURB TO STRUCTURE AND FLASH ROOF.
9. PROVIDE POLYCARBONATE PIPE SUPPORTS SIMILAR TO MIRO INDUSTRIES MODEL 3-RAH-7 FOR PIPING ON ROOF. PROVIDE AND PLACE ROOF PIPING SUPPORTS ON SUPPORT PADS THAT ARE MANUFACTURED BY THE ROOF MANUFACTURER. SPACE SUPPORTS PER MANUFACTURER'S RECOMMENDATIONS.
10. PROVIDE ROOFTOP UNIT WITH ADAPTER CURB TO ALLOW NEW ROOFTOP UNIT TO BE INSTALLED ON EXISTING CURB.
11. CONCENTRIC VENT TERMINATION SERVING HWH-1. REFER TO DETAIL 6 ON DRAWING M602 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
12. TIE EXISTING EXHAUST FAN INTO NEW CONTROLS. PROVIDE NEW CURRENT SENSOR AND NEW RIB TO ALLOW EXISTING FAN TO RUN DURING NEW CONTROLS BUILDING OCCUPANCY.

M/E/P Engineer:

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Consulting M/E/P Engineers
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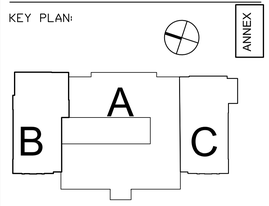
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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Project No: 25.024
Date:
Drawn By: TMW
Checked By: RLD

Sheet Name:
MECH ROOF PLAN

Sheet No:
M-104B
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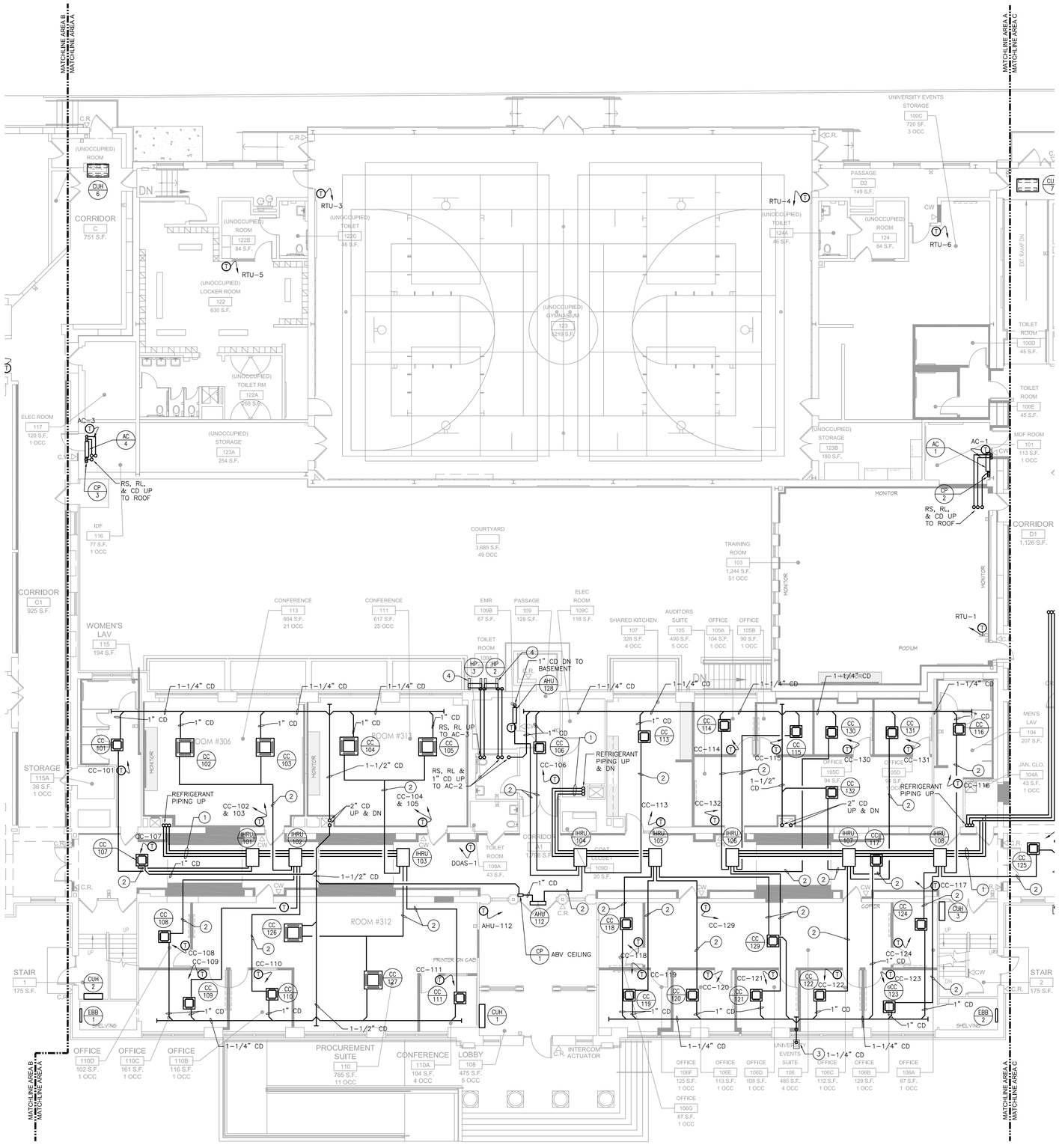
NOTES:

1. REFER TO DRAWING M-001 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.

NEW WORK KEY NOTES:

1. REFRIGERANT SUCTION, LIQUID, AND HEAT RECOVERY PIPING FROM ROOF MOUNTED OUTDOOR HEAT RECOVERY UNIT TO INDOOR HEAT RECOVERY UNITS. ALL PIPING TO BE SIZED PER MANUFACTURERS RECOMMENDATIONS.
2. REFRIGERANT SUCTION & LIQUID PIPING FROM INDOOR HEAT RECOVERY UNITS TO AIR HANDLING UNITS. ALL PIPING TO BE SIZED PER MANUFACTURERS RECOMMENDATIONS.
3. CONDENSATE DRAIN TO SPILL TO GRADE WITH CONCRETE SPLASH BLOCK.
4. WALL HANG HEAT PUMP UNIT FROM WALL BRACKET AS SCHEDULED.



1 MECHANICAL PIPING NEW WORK FIRST FLOOR PLAN AREA A

SCALE: 1/8"=1'0"

M/E/P Engineer:

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Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
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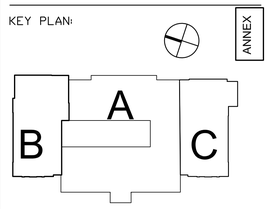

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Drawing Information:

Project No: 25.024
Date:
Drawn By: TMW
Checked By: RLD

Sheet Name:

MECH PIPING 1ST FLR

Sheet No:

M-201A

Sheet 0 of 000

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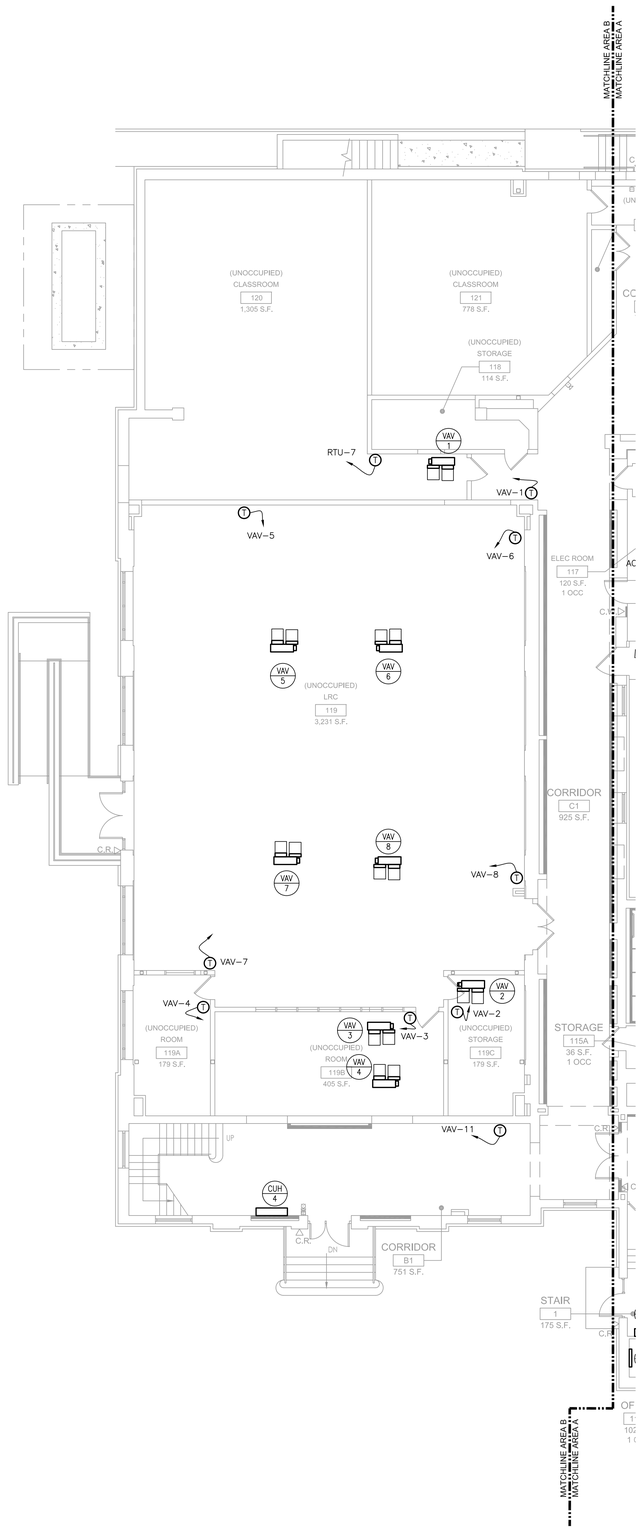
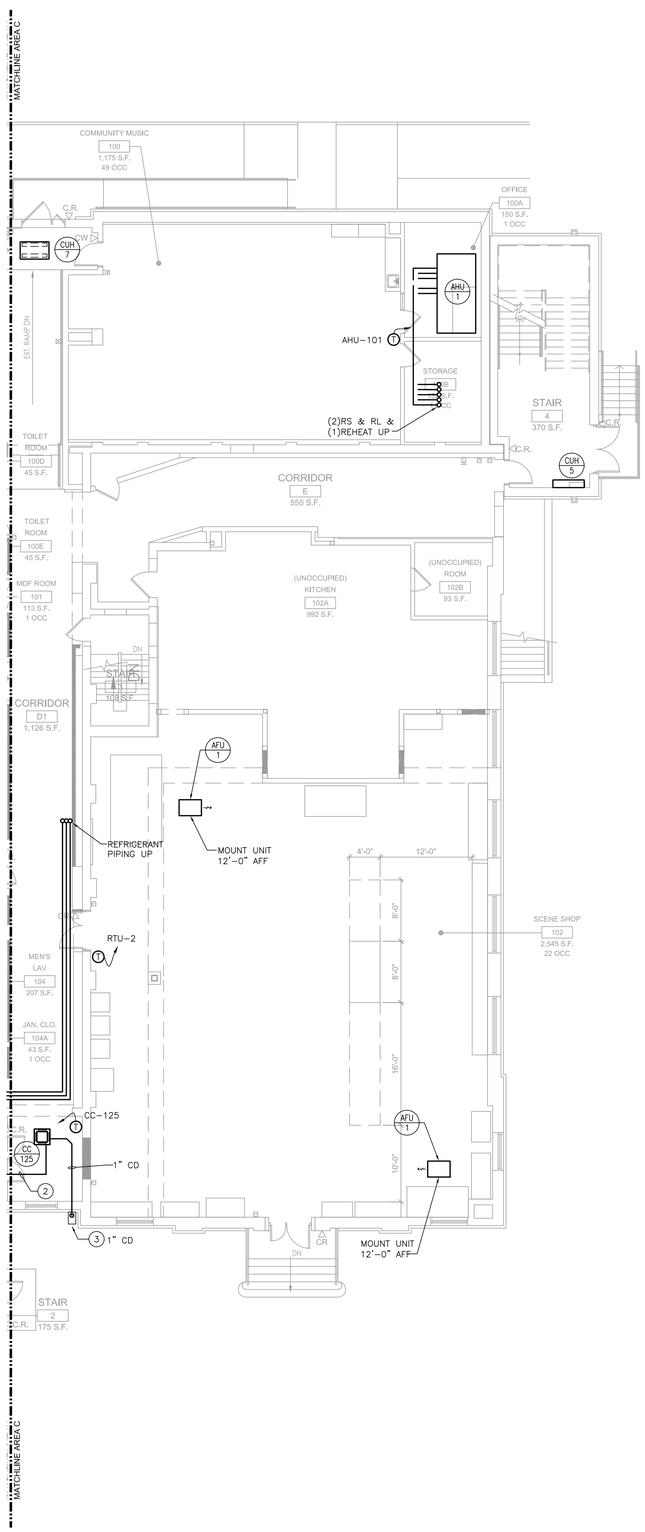
NOTES:

1. REFER TO DRAWING M-001 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.



1 MECHANICAL PIPING NEW WORK FIRST FLOOR PLAN AREA B

SCALE: 1/8"=1'0"



2 MECHANICAL PIPING NEW WORK FIRST FLOOR PLAN AREA C

SCALE: 1/8"=1'0"

NEW WORK KEY NOTES:

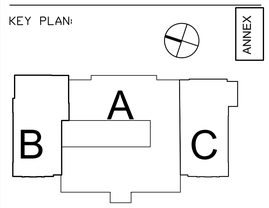
1. REFRIGERANT SUCTION, LIQUID, AND HEAT RECOVERY PIPING FROM ROOF MOUNTED OUTDOOR HEAT RECOVERY UNIT TO INDOOR HEAT RECOVERY UNITS. ALL PIPING TO BE SIZED PER MANUFACTURERS RECOMMENDATIONS.
2. REFRIGERANT SUCTION & LIQUID PIPING FROM INDOOR HEAT RECOVERY UNITS TO AIR HANDLING UNITS. ALL PIPING TO BE SIZED PER MANUFACTURERS RECOMMENDATIONS.
3. CONDENSATE DRAIN TO SPILL TO GRADE WITH CONCRETE SPLASH BLOCK.
4. WALL HANG HEAT PUMP UNIT FROM WALL BRACKET AS SCHEDULED.

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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Richard D. Alderiso , AIA
NJ RA AI 15023, NY RA 027416, PA RA 405474

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Client:

Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:

Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:

Project No: 25.024
Date:
Drawn By: TMW
Checked By: RLD

Sheet Name:

MECH PIPING 1ST FLR

Sheet No:

M-201B

Sheet 0 of 000

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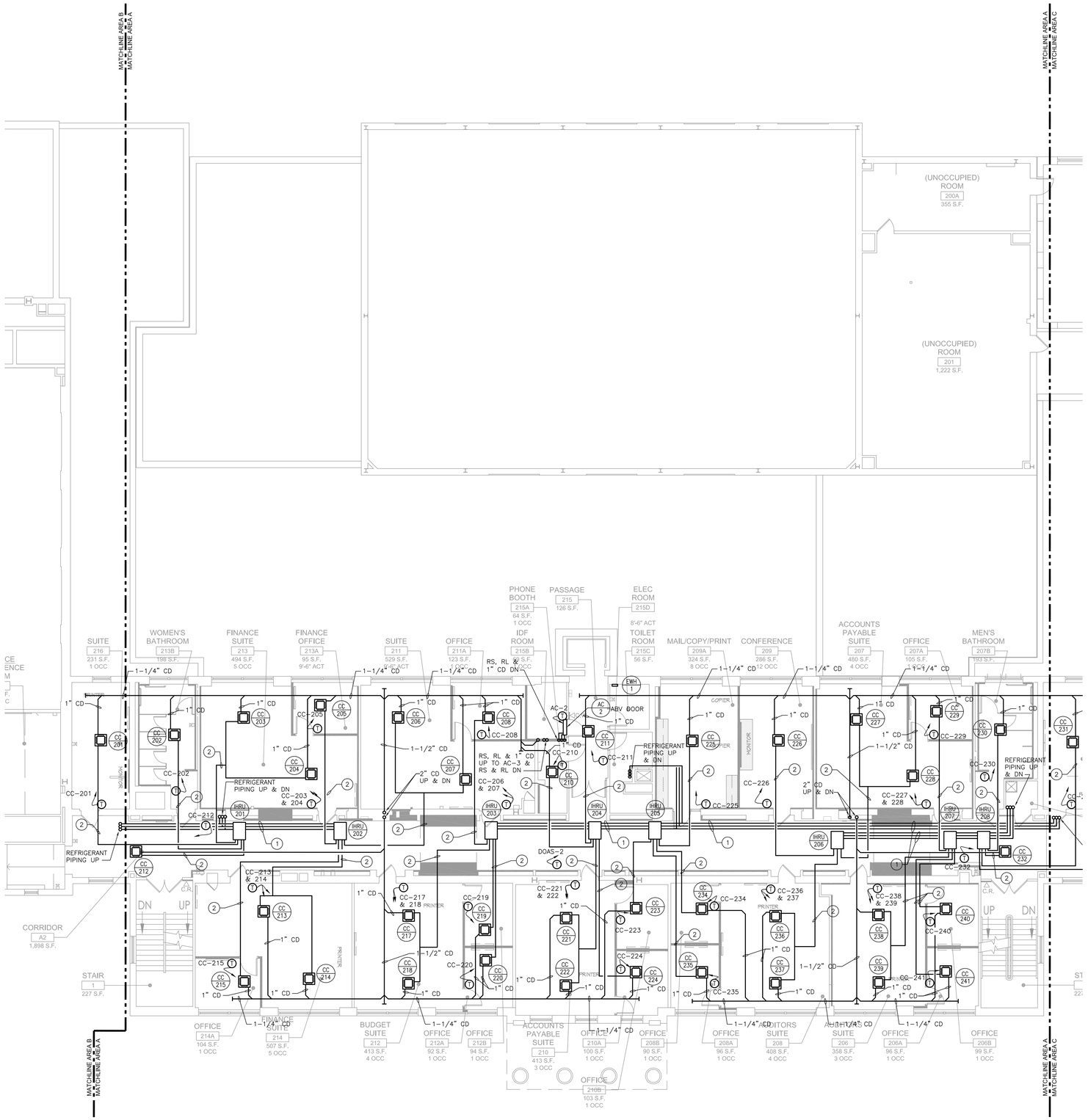

1 MECHANICAL PIPING NEW WORK SECOND FLOOR PLAN AREA A

SCALE: 1/8"=1'0"

NEW WORK KEY NOTES:

1. REFRIGERANT SUCTION, LIQUID, AND HEAT RECOVERY PIPING FROM ROOF MOUNTED OUTDOOR HEAT RECOVERY UNIT TO INDOOR HEAT RECOVERY UNITS. ALL PIPING TO BE SIZED PER MANUFACTURERS RECOMMENDATIONS.
2. REFRIGERANT SUCTION & LIQUID PIPING FROM INDOOR HEAT RECOVERY UNITS TO AIR HANDLING UNITS. ALL PIPING TO BE SIZED PER MANUFACTURERS RECOMMENDATIONS.

M/E/P Engineer:

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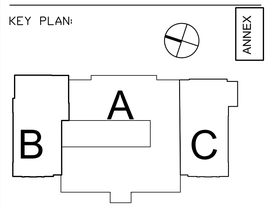
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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Client:

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201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:

Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:

Project No: 25.024
Date:
Drawn By: TMW
Checked By: RLD

Sheet Name:

MECH PIPING 2ND FLR

Sheet No:

M-202A
Sheet 0 of 000

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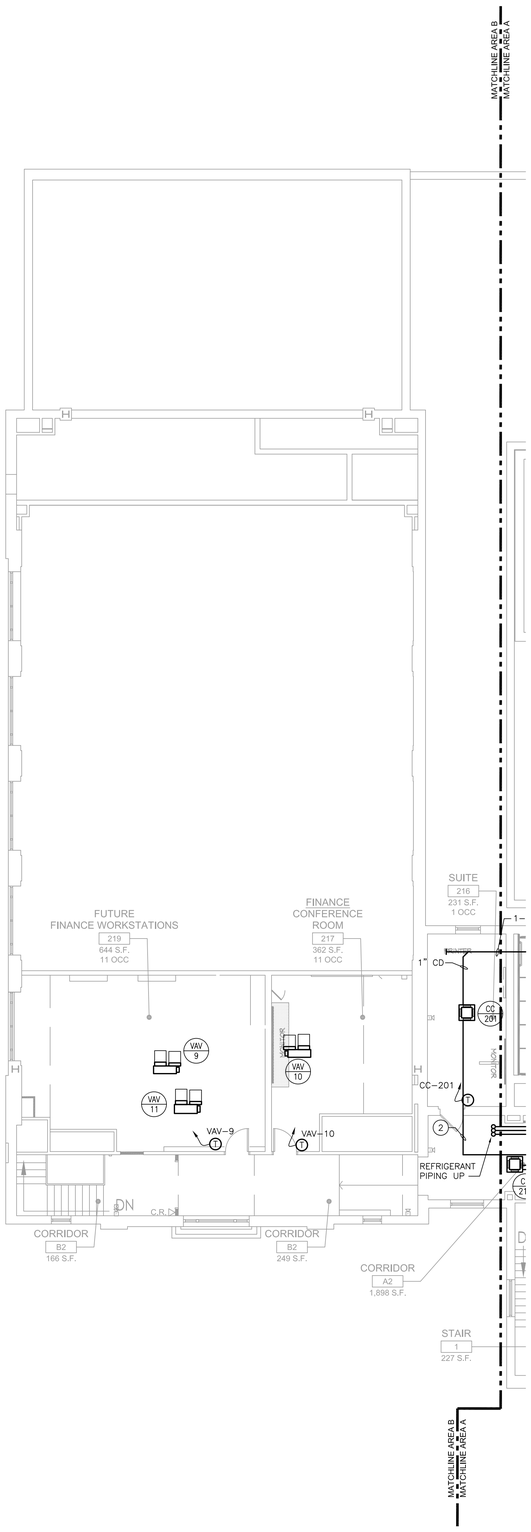
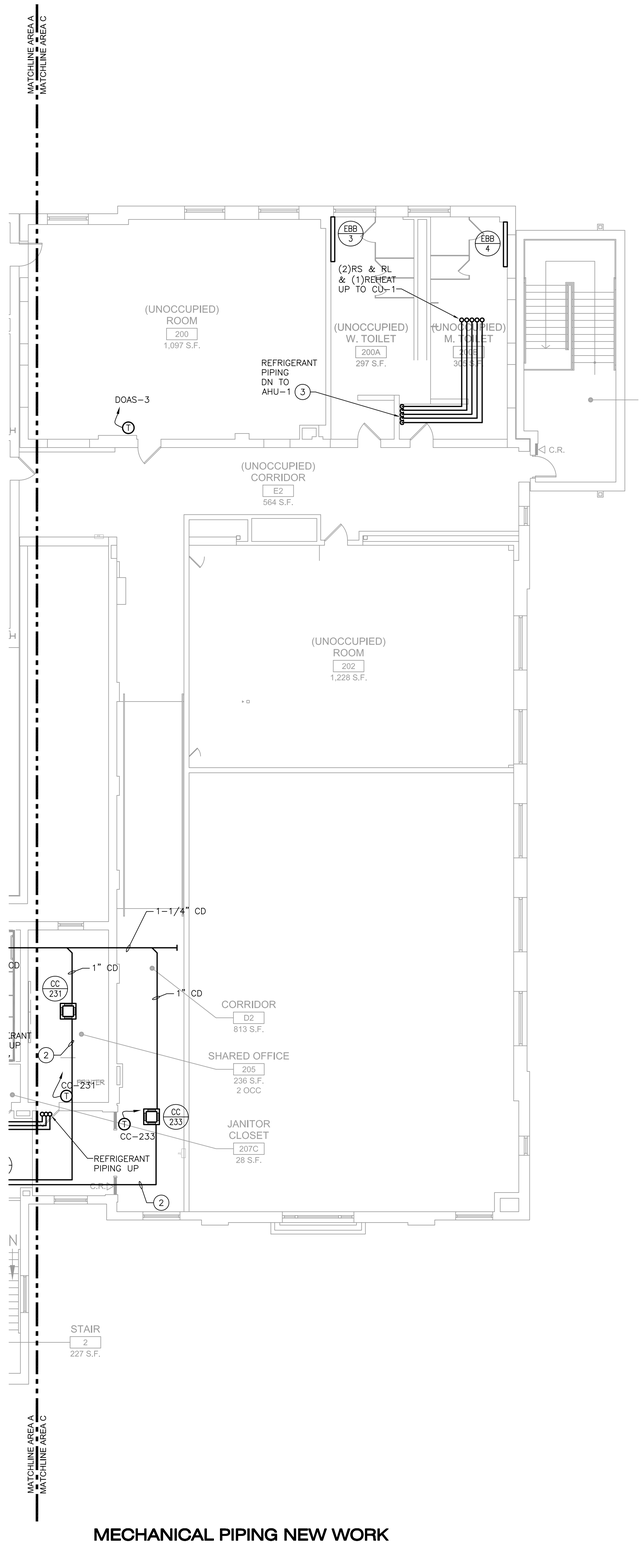
NEW WORK KEY NOTES:

1. REFRIGERANT SUCTION, LIQUID, AND HEAT RECOVERY PIPING FROM ROOF MOUNTED OUTDOOR HEAT RECOVERY UNIT TO INDOOR HEAT RECOVERY UNITS. ALL PIPING TO BE SIZED PER MANUFACTURERS RECOMMENDATIONS.
2. REFRIGERANT SUCTION & LIQUID PIPING FROM INDOOR HEAT RECOVERY UNITS TO AIR HANDLING UNITS. ALL PIPING TO BE SIZED PER MANUFACTURERS RECOMMENDATIONS.
3. PROVIDE REFRIGERANT PIPING IN VERTICAL 3-SIDED 16 GAUGE STEEL PIPE ENCLOSURE FOR FULL HEIGHT OF SPACE. PIPE ENCLOSURE SHALL BE JG INNOVATIONS, INC. SOFTI-STEEL SYSTEM IN CUSTOM POWDER-COATED COLOR CHOSEN BY THE ARCHITECT.



1 MECHANICAL PIPING NEW WORK SECOND FLOOR PLAN AREA B

SCALE: 1/8"=1'0"



2 MECHANICAL PIPING NEW WORK SECOND FLOOR PLAN AREA C

SCALE: 1/8"=1'0"

M/E/P Engineer:

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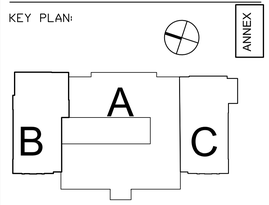
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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Glassboro, NJ 08028

Project:

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BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:

Project No: 25.024
Date:
Drawn By: TMW
Checked By: RLD

Sheet Name:

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Sheet No:

M-202B

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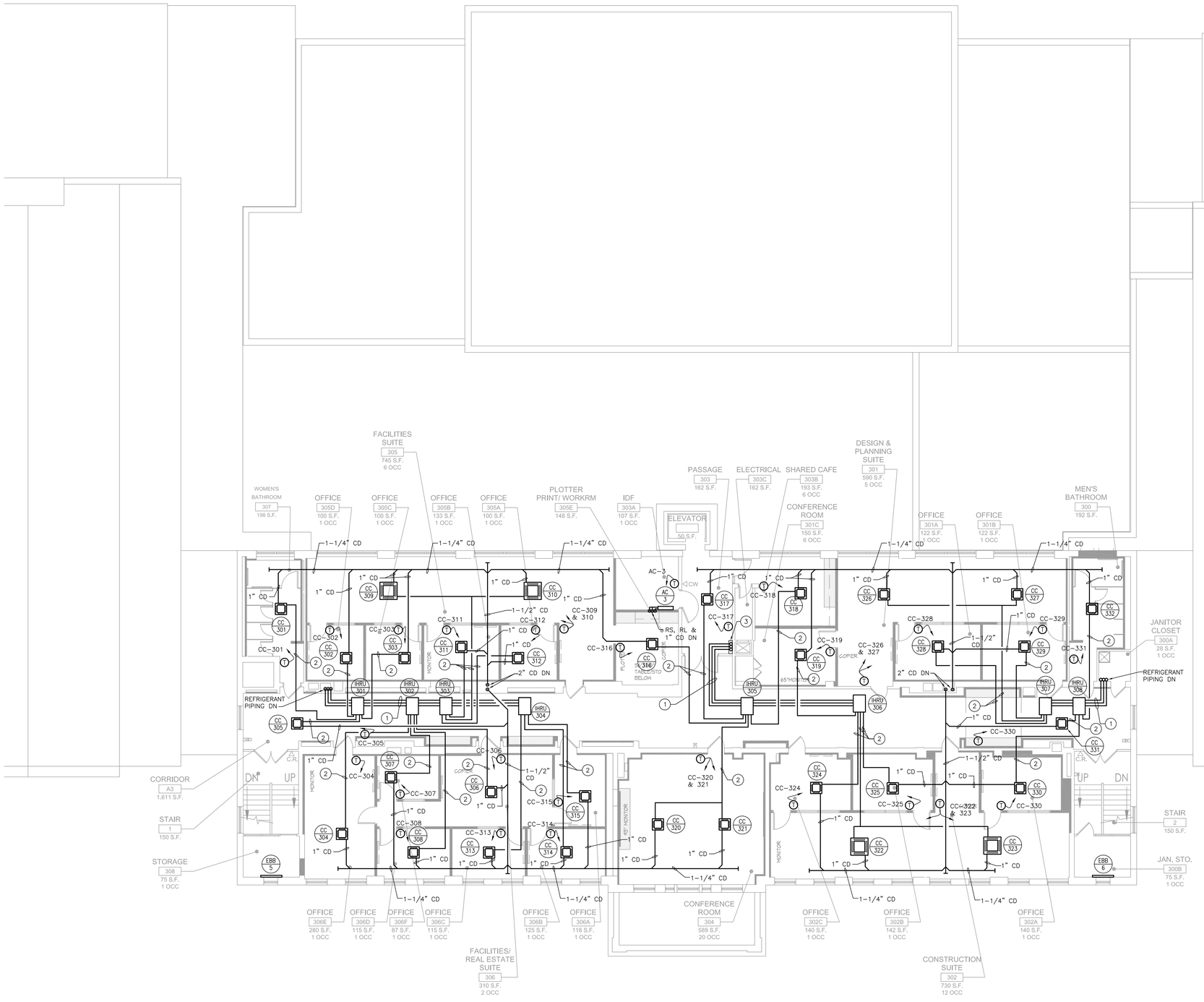

1 MECHANICAL PIPING NEW WORK THIRD FLOOR PLAN

SCALE: 1/8"=1'0"

NEW WORK KEY NOTES:

1. REFRIGERANT SUCTION, LIQUID, AND HEAT RECOVERY PIPING FROM ROOF MOUNTED OUTDOOR HEAT RECOVERY UNIT TO INDOOR HEAT RECOVERY UNITS. ALL PIPING TO BE SIZED PER MANUFACTURERS RECOMMENDATIONS.
2. REFRIGERANT SUCTION & LIQUID PIPING FROM INDOOR HEAT RECOVERY UNITS TO AIR HANDLING UNITS. ALL PIPING TO BE SIZED PER MANUFACTURERS RECOMMENDATIONS.
3. PROVIDE REFRIGERANT PIPING IN VERTICAL 3-SIDED 16 GAUGE STEEL PIPE ENCLOSURE FOR FULL HEIGHT OF SPACE. PIPE ENCLOSURE SHALL BE JG INNOVATIONS, INC. SOFFI-STEEL SYSTEM IN CUSTOM POWDER-COATED COLOR CHOSEN BY THE ARCHITECT.

M/E/P Engineer:

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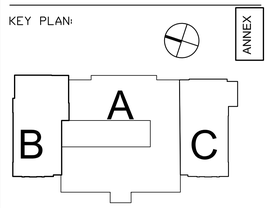
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: TMW
Checked By: RLD

Sheet Name:
MECH PIPING 3RD FLR

Sheet No:
M-203
Sheet 0 of 000

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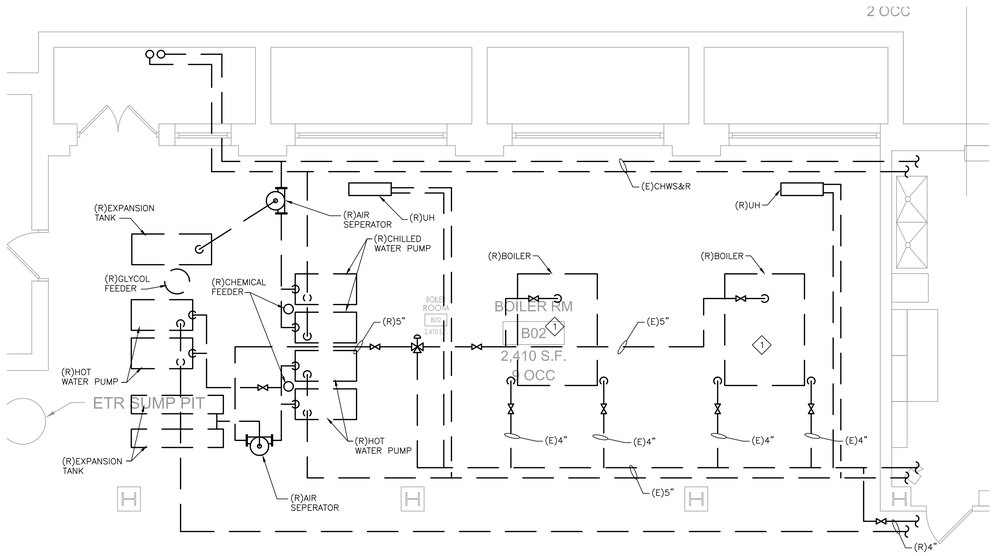

1 MECHANICAL PIPING DEMOLITION BOILER ROOM PLAN

SCALE: 1/4"=1'0"

NOTES:

1. REFER TO DRAWING M-001 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.

DEMOLITION KEY NOTES:

1. REMOVE BOILER SYSTEM IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, HOT WATER SUPPLY & RETURN PIPING, PUMPS, AIR SEPERATOR, EXPANSION TANKS, VALVES, SPECIALTIES, INSULATION, HANGERS, SUPPORTS, CONTROLS AND WIRING.

3 MECHANICAL PIPING NEW WORK BOILER ROOM PLAN

SCALE: 1/4"=1'0"

NEW WORK KEY NOTES:

1. ATC TO PROVIDE JACE FOR CONTROL OF ALL EQUIPMENT AS SEQUENCED ON M-500 SERIES DRAWINGS.

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
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636 Skippack Pike, Suite 200
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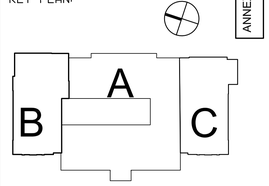
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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NJ RA AI 15023, NY RA 027416, PA RA 405474

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201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
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202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: TMW
Checked By: RLD

Sheet Name:
MECH BOILER ROOM PLANS

Sheet No:
M-300
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PACKAGED GAS FIRED ROOFTOP UNIT SCHEDULE

UNIT TAG	AREA SERVED	LOCATION	SUPPLY CFM	MINIMUM OA CFM	SUPPLY FAN				D/X COOLING @ 95°														HOT GAS REHEAT			GAS HEAT				ELECTRICAL CHARACTERISTICS					EER	MAXIMUM DIMENSIONS L x W x H	AIRFLOW ARRANGEMENT	OPERATING WEIGHT LBS.	BASIS OF DESIGN MANUFACTURER AND MODEL NO.
					ESP IN. WC	TSP IN. WC	BHP	HP	ENT AIR		LVG AIR		FACE VEL FPM	GROSS TOTAL MBH	GROSS SENSIBLE MBH	NET TOTAL MBH	NET SENSIBLE MBH	CONDENSER FAN MOTOR			COMPRESSOR			CAPACITY MBH	LVG AIR		AIR		HEATING CAPACITY	INPUT MBH	OUTPUT MBH	VOLTS	PHASE	CYCLE	MCA	MOCP				
									DB °F	WB °F	DB °F	WB °F						NO.	H.P. EA.	FLA EA.	NO.	H.P. EA.	RLA EA.		DB °F	WB ° F	ENT °F	LVG °F											
RTU–1	TRAINING ROOM 103	ROOF	1800	900	1.5	2.33	1.11	2	84.0	69.0	53.1	52.3	212	88.9	59.1	85.6	55.8	2	0.33	2.8	1	–	26.9	32.2	70	59.0	40.0	102.2	8:1 MODULATING	150	121.5	208	3	60	47	70	10.4	100"x79"x44"	DOWNFLOW	1246	AAON RNA–008
RTU–2	SCENE SHOP 102	ROOF	6000	1200	1.75	3.22	4.99	7.5	78.6	64.9	54.4	53.8	302	193.6	155.8	179.6	141.9	2	0.75	3.4	2	–	26.9/26.3	100.4	70	59.9	58.0	108.3	13:1 MODULATING	405	328.1	208	3	60	91	110	9.8	185"x101"x60"	SIDE DISCHARGE	3618	AAON RNA–016
RTU–3	GYMNASIUM 123	ROOF	6800	1700	1.0	2.75	4.77	7.5	79.5	65.6	53.7	53.1	342	247.5	187.6	234.2	174.2	2	0.75	3.4	2	–	32.3/26.5	118.3	70	59.5	55.0	99.4	13:1 MODULATING	405	328.1	208	3	60	98	125	10.5	138"x101"x60"	DOWNFLOW	2979	AAON RNA–020
RTU–4	GYMNASIUM 123	ROOF	6800	2000	1.0	2.75	4.77	7.5	80.3	66.2	54.3	53.7	342	250.2	188.6	236.9	175.3	2	1.75	3.4	2	–	32.3/26.5	113.7	70	59.8	52.4	96.7	13:1 MODULATING	405	328.1	208	3	60	98	125	10.6	138"x101"x60"	DOWNFLOW	2979	AAON RNA–020
RTU–7	CLASSROOM 120	ROOF	3000	450	1.5	2.93	2.20	3	77.7	64.2	51.7	51.1	353	110.6	83.5	104.3	77.2	1	1.0	7.4	1	–	29.8	58.6	70	58.5	61.0	98.2	8:1 MODULATING	150	121.5	208	3	60	55	80	10.5	100"x79"x44"	DOWNFLOW	1218	AAON RNA–010
RTU–8	LRC 119(VAV UNIT)	ROOF	8000	1200	1.75	3.87	7.87	10	77.7	64.2	54.2	53.4	403	248.7	201.8	226.9	180.0	2	0.75	3.4	2	–	32.3/26.5	–	–	–	61.0	86.1	9:1 MODULATING	270	218.7	208	3	60	104	125	9.1	185"x101"x60"	SIDE DISCHARGE	3741	AAON RNA–020

1. PROVIDE ALL UNITS COMPLETE WITH UNIT MOUNTED NON–FUSED DISCONNECT SWITCH.
2. PROVIDE ALL UNITS COMPLETE WITH SUPPLY PLENUM FAN WITH HIGH EFFICIENCY MOTOR & CONSTANT VOLUME VFD DRIVE.
3. PROVIDE ALL UNITS COMPLETE WITH INSULATED BASE PAN AND DOUBLE WALL CABINET CONSTRUCTION WITH 2 INCH THICK INSULATION.
4. PROVIDE ALL UNITS COMPLETE WITH MODULATING GAS HEAT W/ STAINLESS STEEL GAS HEAT EXCHANGER.
5. PROVIDE ALL UNITS COMPLETE WITH MANUFACTURER CONTROLLER WATTMASTER VCCX.
6. PROVIDE ALL UNITS COMPLETE WITH CONVENIENCE LIGHT AND OUTLET WIRED TO LINE SIDE OF DISCONNECT.
7. PROVIDE ALL UNITS COMPLETE WITH MERV 13 FILTERS. PROVIDE 1 EXTRA SET OF FILTERS FOR EACH UNIT.
8. PROVIDE ALL UNITS WITH MINIMUM 10kA SCCR RATING.
9. PROVIDE ALL UNITS COMPLETE WITH 0–100% OUTSIDE AIR ECONOMIZER (WET BULB) AND BAROMETRIC RELIEF.
10. PROVIDE ALL UNITS WITH PHASE LOSS AND BROWN OUT PROTECTION.
11. PROVIDE RTU–3 & 4 WITH DEMAND CONTROL VENTILATION.
12. PROVIDE RTU–1,2,7,&8 WITH A 18 INCH HIGH ROOF CURB.
13. PROVIDE RTU–3 & 4 WITH ADAPTER CURBS TO BE MOUNTED ON EXISTING ROOF CURB.

PACKAGED GAS FIRED ROOFTOP UNIT W/ ENERGY RECOVERY SCHEDULE

UNIT TAG	AREA SERVED	SUPPLY CFM	EXHAUST CFM	MINIMUM OA CFM	AIR STREAM	HEAT RECOVERY(SUMMER) ENTHALPY RECOVERY WHEEL				HEAT RECOVERY(WINTER) ENTHALPY RECOVERY WHEEL				SUPPLY FAN					EXHAUST FAN					D/X COOLING @ 95 °F														HOT GAS REHEAT			GAS HEAT				
						EAT °F DB	EAT °F WB	LAT °F DB	LAT °F WB	EAT °F DB	EAT °F WB	LAT °F DB	LAT °F WB	NO.	ESP IN. WC	TSP IN. WC	BHP	HP	NO.	ESP IN. WC	TSP IN. WC	BHP	HP	ENT AIR		LVG AIR		FACE VEL FPM	GROSS TOTAL MBH	GROSS SENSIBLE MBH	NET TOTAL MBH	NET SENSIBLE MBH	CONDENSER FAN MOTOR			COMPRESSOR			CAPACITY MBH	LVG AIR		AIR		HEATING CAPACITY	INPUT MBH	OUTPUT MBH
																								DB °F	WB °F	DB °F	WB °F					NO.	H.P. EA.	FLA EA.	NO.	H.P. EA.	RLA EA. 1/2/3/4		DB °F	WB ° F	ENT °F	LVG °F			
					EXHAUST	75.0	62.0	86.7	70.6	70.0	55.0	30.6	28.6																																	
RTU–5	LOCKER ROOM 122	2000	2000	2000	OUTDOOR	93.0	75.0	81.1	67.2	10.0	9.0	47.8	40.9	1	1.0	3.06	1.63	2	1	1.0	1.95	1.05	2	81.1	67.2	53.7	52.0	235	88.5	60.4	83.7	55.6	2	0.33	2.8	1	–	26.9	36.6	70.0	58.8	47.8	103.8	8:1 MODULATING	150	121.5
RTU–6	STORAGE 100C	2000	2000	2000	OUTDOOR	93.0	75.0	81.1	67.2	10.0	9.0	47.8	40.9	1	1.0	3.06	1.63	2	1	1.0	1.95	1.05	2	81.1	67.2	53.7	52.0	235	88.5	60.4	83.7	55.6	2	0.33	2.8	1	–	26.9	36.6	70.0	58.8	47.8	103.8	8:1 MODULATING	150	121.5

1. PROVIDE ALL UNITS COMPLETE WITH UNIT MOUNTED NON–FUSED DISCONNECT SWITCH.
2. PROVIDE ALL UNITS COMPLETE WITH SUPPLY PLENUM FAN WITH HIGH EFFICIENCY MOTOR & CONSTANT VOLUME VFD DRIVE.
3. PROVIDE ALL UNITS COMPLETE WITH INSULATED BASE PAN AND DOUBLE WALL CABINET CONSTRUCTION WITH 2 INCH THICK INSULATION.
4. PROVIDE ALL UNITS COMPLETE WITH MODULATING GAS HEAT W/ STAINLESS STEEL GAS HEAT EXCHANGER.
5. PROVIDE ALL UNITS COMPLETE WITH MANUFACTURER CONTROLLER WATTMASTER VCCX.
6. PROVIDE ALL UNITS COMPLETE WITH CONVENIENCE LIGHT AND OUTLET WIRED TO LINE SIDE OF DISCONNECT.
7. PROVIDE ALL UNITS COMPLETE WITH MERV 13 FILTERS. PROVIDE 1 EXTRA SET OF FILTERS FOR EACH UNIT.
8. PROVIDE ALL UNITS WITH MINIMUM 10kA SCCR RATING.
9. PROVIDE ALL UNITS COMPLETE WITH 0–100% OUTSIDE AIR ECONOMIZER (WET BULB) AND BAROMETRIC RELIEF.
10. PROVIDE ALL UNITS WITH PHASE LOSS AND BROWN OUT PROTECTION.
11. PROVIDE ALL UNITS WITH ADAPTER CURBS TO BE MOUNTED ON EXISTING ROOF CURB.

ROOF TOP UNIT SCHEDULE (CONTINUED)

UNIT TAG	ELECTRICAL CHARACTERISTICS						EER	MAXIMUM DIMENSIONS L x W x H	AIRFLOW ARRANGEMENT	OPERATING WEIGHT LBS.	BASIS OF DESIGN MANUFACTURER AND MODEL NO.
	VOLTS	PHASE	CYCLE	MCA	MOCP						
RTU–5	208	3	60	55	80		14.8	134"x79"x44"	DOWNFLOW	1589	AAON RNA–008
RTU–6	208	3	60	55	80		14.8	134"x79"x44"	DOWNFLOW	1589	AAON RNA–008

ROOF TOP UNIT SCHEDULE

UNIT TAG	AREA SERVED	SUPPLY CFM	EXHAUST CFM	MINIMUM OA CFM	AIR STREAM	HEAT RECOVERY(SUMMER) ENTHALPY RECOVERY WHEEL				HEAT RECOVERY(WINTER) ENTHALPY RECOVERY WHEEL				SUPPLY FAN					EXHAUST FAN					D/X COOLING @ 95 °F														HOT GAS REHEAT			GAS HEAT				
						EAT °F DB	EAT °F WB	LAT °F DB	LAT °F WB	EAT °F DB	EAT °F WB	LAT °F DB	LAT °F WB	NO.	ESP IN. WC	TSP IN. WC	BHP	HP	NO.	ESP IN. WC	TSP IN. WC	BHP	HP	ENT AIR		LVG AIR		FACE VEL FPM	GROSS TOTAL MBH	GROSS SENSIBLE MBH	NET TOTAL MBH	NET SENSIBLE MBH	CONDENSER FAN MOTOR			COMPRESSOR			CAPACITY MBH	LVG AIR		AIR		HEATING CAPACITY	INPUT MBH	OUTPUT MBH
																								DB °F	WB °F	DB °F	WB °F						NO.	H.P. EA.	FLA EA.	NO.	H.P. EA.	RLA EA. 1/2/3/4		DB °F	WB ° F	ENT °F	LVG °F			
					EXHAUST	75.0	62.0	89.6	72.5	70.0	53.0	20.6	19.5																																	
DOAS–1	1ST FLOOR PART A	2900	2200	2900	OUTDOOR	93.0	75.0	81.2	67.6	10.0	9.0	47.3	40.1	1	1.5	3.08	2.59	5	1	1.0	1.64	0.86	2	81.2	67.6	64.2	53.6	199	120.5	83.5	113.2	76.1	2	0.33	2.6	2	–	18.0/13.8	64.1	75.0	61.5	47.3	116.8	9:1 MODULATING	270	218.7
DOAS–2	2ND & 3RD FLOOR PART A	5300	3760	5300	OUTDOOR	93.0	75.0	82.7	68.2	10.0	9.0	42.2	37.1	1	1.0	3.33	4.37	5	1	0.75	1.55	1.92	3	82.7	68.2	52.9	52.5	267	245.5	167.7	233.4	155.5	2	0.75	3.4	2	–	32.3/26.5	95.9	70.0	59.3	42.2	99.3	13:1 MODULATING	405	328.1
DOAS–3	2ND FLOOR PART C	1500	1500	1500	OUTDOOR	93.0	75.0	83.6	70.1	10.0	9.0	43.7	37.2	1	1.0	3.35	1.55	2	1	0.75	1.67	0.75	1	83.6	70.1	56.4	56.2	300	64.9	43.3	60.1	38.5	1	0.33	2.8	1	–	18.0	21.6	70.0	61.3	43.7	93.5	8.3:1 MODULATING	100	81.0

1. PROVIDE ALL UNITS COMPLETE WITH UNIT MOUNTED NON–FUSED DISCONNECT SWITCH.
2. PROVIDE ALL UNITS COMPLETE WITH SUPPLY PLENUM FAN WITH HIGH EFFICIENCY MOTOR & CONSTANT VOLUME VFD DRIVE.
3. PROVIDE ALL UNITS COMPLETE WITH INSULATED BASE PAN AND DOUBLE WALL CABINET CONSTRUCTION WITH 2 INCH THICK INSULATION.
4. PROVIDE ALL UNITS COMPLETE WITH MODULATING GAS HEAT W/ STAINLESS STEEL GAS HEAT EXCHANGER.
5. PROVIDE ALL UNITS COMPLETE WITH MANUFACTURER CONTROLLER WATTMASTER VCCX.
6. PROVIDE ALL UNITS COMPLETE WITH CONVENIENCE LIGHT AND OUTLET WIRED TO LINE SIDE OF DISCONNECT.
7. PROVIDE ALL UNITS COMPLETE WITH MERV 13 FILTERS. PROVIDE 1 EXTRA SET OF FILTERS FOR EACH UNIT.
8. PROVIDE ALL UNITS WITH MINIMUM 10kA SCCR RATING.
9. PROVIDE ALL UNITS COMPLETE WITH COMPARATIVE ENTHALPY ECONOMIZER AND BAROMETRIC RELIEF.
10. PROVIDE ALL UNITS WITH PHASE LOSS AND BROWN OUT PROTECTION.
11. DOAS–1 TO BE MOUNTED ON ROOF DUNNAGE. REFER TO ARCHITECTURAL DRAWINGS.
12. PROVIDE DOAS–2 & DOAS–3 COMPLETE WITH A 18 INCH HIGH ROOF CURB.

ROOF TOP UNIT SCHEDULE (CONTINUED)

UNIT TAG	ELECTRICAL CHARACTERISTICS						EER	MAXIMUM DIMENSIONS L x W x H	AIRFLOW ARRANGEMENT	OPERATING WEIGHT LBS.	BASIS OF DESIGN MANUFACTURER AND MODEL NO.
	VOLTS	PHASE	CYCLE	MCA	MOCP						
DOAS–1	208	3	60	65	80		17.3	199"x129"x60"	SIDE DISCHARGE	3867	AAON RNA–011
DOAS–2	208	3	60	101	125		15.4	199"x129"x60"	SIDE DISCHARGE	4123	AAON RNA–020
DOAS–3	208	3	60	40	50		14.3	116"x77"x51"	DOWNFLOW	1468	AAON RQA–005

AIR COOLED CONDENSING UNIT SCHEDULE

UNIT TAG	TONS	COMPRESSOR		CONDENSER FAN MOTOR			ELECTRICAL CHARACTERISTICS				MAX. AMBIENT TEMP. °F	EER	MAXIMUM DIMENSIONS, IN. LxWxH	BASIS OF DESIGN MANUFACTURER AND MODEL NO.
		QTY.	RLA EA.	QTY.	FLA EA.	HP EA.	VOLTS	PHASE	CYCLE	MCA				
CU–1	9	2	16.7/11.9	2	2.8	0.33	208	3	60	38	115	11.9	94"x47"x57"	AAON CFA–009–B

PROVIDE ALL UNITS WITH UNIT MOUNTED NON–FUSED DISCONNECT BY EC.
PROVIDE ALL UNITS WITH MODULATING HOT GAS REHEAT.
PROVIDE ALL UNITS WITH MODULATING FAN PRESSURE CONTROL.
PROVIDE CU–1 WITH TWO VARIABLE SCROLL COMPRESSORS.

EXHAUST FAN SCHEDULE

UNIT TAG	LOCATION	SERVICE	CFM	ESP IN. WC	FAN RPM	BHP (WATTS)	MOTOR HP (AMPS)	SONES (dB)	DRIVE: DIRECT/ V–BELT	ELECTRICAL CHARACTERISTICS			MAXIMUM DIMENSIONS FAN L X W x H, IN.	WEIGHT LBS.	BASIS OF DESIGN MANUFACTURER AND MODEL NO.
										VOLTS	PHASE	CYCLE			
EF–1	CEILING	WOMENS TOILETS	980	0.7	1208	(343)	(7.4)	2.7	DIRECT	120	1	60	15x24x15	67	GREENHECK CSP–A1410
EF–2	CEILING	MENS TOILETS	1260	0.7	1144	(1153)	(10.3)	5.4	DIRECT	120	1	60	15x35x15	77	GREENHECK CSP–A1750

1. PROVIDE ALL UNITS COMPLETE WITH BACKDRAFT DAMPER, UNIT MOUNTED DISCONNECT SWITCH, MOTOR MOUNTED SPEED DIAL.

AIR HANDLING UNIT SCHEDULE

UNIT TAG	TOTAL AIRFLOW CFM	MINIMUM SUPPLY CFM	MIN OA CFM	DX COOLING COIL								HEAT PUMP HEATING COIL			EMERGENCY ELEC HEAT			HOT GAS REHEAT COIL	SUPPLY FAN				ELECTRICAL CHARACTERISTICS			MAXIMUM UNIT DIMENSIONS LxWxH, IN	OPERATING WEIGHT LBS.	BASIS OF DESIGN MANUFACTURER AND MODEL NO.	SERVED BY
				ENT AIR		LVG AIR		ROWS	TOTAL CAPACITY MBH	SENSIBLE CAPACITY MBH	APD IN. H2O	AIR		CAPACITY MBH	AIR		ELECTRICAL DATA		CAPACITY MBH	ESP IN. WC	TSP IN. WC	BHP	HP	VOLTS	PHASE	HZ				
				DB °F	WB °F	DB °F	WB °F					ENT °F	LVG °F		ENT °F	LVG °F	KW	FLA												
AHU–1	1500	1500	750	84.0	69.0	48.3	48.2	6	88.9	56.7	0.20	40.0	71.1	58.0	40.0	71.1	21.0	58.3	34.3	1.0	1.48	0.59	2	208	3	60	124x60x28	850	AAON H3–CRB	CU–1

PROVIDE ALL UNITS COMPLETE WITH 2" PLEATED MERV–8 THROWAWAY FILTERS.
PROVIDE ALL UNITS COMPLETE WITH A MIXING BOX WITH DAMPERS AND ACTUATORS.
PROVIDE ALL UNITS COMPLETE WITH HOT GAS REHEAT COIL.
PROVIDE ALL UNITS COMPLETE WITH MANUFACTURER CONTROLLER WATTMASTER VCCX.

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:

ANNEX

A
B
C

No.	Date	Description
	12/08/25	OUT TO BID
	12/03/25	DCA Submission

Revisions / Issues

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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
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MECHANICAL SCHEDULES

Sheet No:
M-400
Sheet 0 of 000

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VRF AIR HANDLING UNIT SCHEDULE

UNIT TAG	AREA SERVED	TOTAL SUPPLY CFM @ MED	RATED TOTAL COOLING BTU/HR	RATED TOTAL HEATING BTU/HR	ELECTRICAL CHARACTERISTICS				MAXIMUM DIMENSIONS, IN. LxWxH	MAXIMUM WEIGHT LBS.	TYPE	BASIS OF DESIGN MANUFACTURER & MODEL NO.	SERVED BY
					VOLTS	PHASE	CYCLE	AMPS					
CC-B1	CUSTODIAL STORAGE B06	247	7,500	8,500	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU073TRAA	OHRU-2
CC-B2	CUSTODIAL STORAGE B06	247	7,500	8,500	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU073TRAA	OHRU-2
CC-B3	NOT USED	–	–	–	–	–	–	–	–	–	–	–	–
CC-B4	STORAGE B08A	247	5,500	6,100	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU053TRAA	OHRU-2
CC-B5	PASSAGE B11	247	5,500	6,100	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU053TRAA	OHRU-2
CC-B6	SUPPLY STORAGE B12	247	5,500	6,100	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU053TRAA	OHRU-2
CC-101	WOMENS LAV 115	247	5,500	6,100	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU053TRAA	OHRU-1
CC-102	CONFERENCE 113	653	19,100	21,500	208	1	60	1.7	37x37x12	75	CEILING CASSETTE	LG ZRNU183TAAA	OHRU-1
CC-103	CONFERENCE 113	653	19,100	21,500	208	1	60	1.7	37x37x12	75	CEILING CASSETTE	LG ZRNU183TAAA	OHRU-1
CC-104	CONFERENCE 111	653	19,100	21,500	208	1	60	1.7	37x37x12	75	CEILING CASSETTE	LG ZRNU183TAAA	OHRU-1
CC-105	CONFERENCE 111	653	19,100	21,500	208	1	60	1.7	37x37x12	75	CEILING CASSETTE	LG ZRNU183TAAA	OHRU-1
CC-106	PASSAGE 109	247	5,500	6,100	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU053TRAA	OHRU-2
CC-107	CORRIDOR A1	247	5,500	6,100	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU053TRAA	OHRU-1
CC-108	OFFICE 110D	247	5,500	6,100	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU053TRAA	OHRU-1
CC-109	OFFICE 110C	283	12,300	13,600	208	1	60	0.25	24x24x10	36	CEILING CASSETTE	LG ZRNU123TRAA	OHRU-1
CC-110	OFFICE 110B	283	12,300	13,600	208	1	60	0.25	24x24x10	36	CEILING CASSETTE	LG ZRNU123TRAA	OHRU-1
CC-111	CONFERENCE 100A	247	7,500	8,500	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU073TRAA	OHRU-1
AHU-112	LOBBY 110	240	7,500	8,500	208	1	60	0.25	33x8x12	20	WALL HUNG	LG ZRNU073SJSA	OHRU-2
CC-113	SHARED KITCHEN 107	388	19,100	21,500	208	1	60	0.25	24x24x11	38	CEILING CASSETTE	LG ZRNU183TQAA	OHRU-2
CC-114	OFFICE 105A	615	12,300	13,600	208	1	60	0.25	24x24x10	36	CEILING CASSETTE	LG ZRNU123TRAA	OHRU-3
CC-115	OFFICE 105B	615	5,500	6,100	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU053TRAA	OHRU-3
CC-116	MENS LAV 104	247	5,500	6,100	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU053TRAA	OHRU-3
CC-117	CORRIDOR A1	247	5,500	6,100	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU053TRAA	OHRU-3
CC-118	OFFICE 106G	247	5,500	6,100	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU053TRAA	OHRU-2
CC-119	OFFICE 106F	247	7,500	8,500	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU073TRAA	OHRU-2
CC-120	OFFICE 106E	283	12,300	13,600	208	1	60	0.25	24x24x10	36	CEILING CASSETTE	LG ZRNU123TRAA	OHRU-2
CC-121	OFFICE 106D	247	7,500	8,500	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU073TRAA	OHRU-3
CC-122	OFFICE 106C	283	12,300	13,600	208	1	60	0.25	24x24x10	36	CEILING CASSETTE	LG ZRNU123TRAA	OHRU-3
CC-123	OFFICE 106B	283	12,300	13,600	208	1	60	0.25	24x24x10	36	CEILING CASSETTE	LG ZRNU123TRAA	OHRU-3
CC-124	OFFICE 106A	247	5,500	6,100	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU053TRAA	OHRU-3
CC-125	CORRIDOR D1	265	9,600	10,900	208	1	60	0.25	24x24x10	36	CEILING CASSETTE	LG ZRNU093TRAA	OHRU-3
CC-126	PROCUREMENT SUITE 110	615	15,400	17,100	208	1	60	1.7	37x37x12	75	CEILING CASSETTE	LG ZRNU153TAAA	OHRU-1
CC-127	PROCUREMENT SUITE 110	615	15,400	17,100	208	1	60	1.7	37x37x12	75	CEILING CASSETTE	LG ZRNU153TAAA	OHRU-1
AHU-128	ELEV. MACHINE RM 109B	240	7,500	8,500	208	1	60	0.25	33x8x12	20	WALL HUNG	LG ZRNU073SJSA	OHRU-2
CC-129	UNIV EVENTS SUITE 106	247	5,500	6,100	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU053TRAA	OHRU-2
CC-130	OFFICE 105C	247	5,500	6,100	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU053TRAA	OHRU-3
CC-131	OFFICE 105D	247	5,500	6,100	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU053TRAA	OHRU-3
CC-132	AUDITORS SUITE 105	247	7,500	8,500	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU073TRAA	OHRU-3
CC-201	SUITE 216	247	7,500	8,500	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU073TRAA	OHRU-1
CC-202	WOMENS BR 213B	247	5,500	6,100	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU053TRAA	OHRU-1
CC-203	FINANCE SUITE 213	283	12,300	13,600	208	1	60	0.25	24x24x10	36	CEILING CASSETTE	LG ZRNU123TRAA	OHRU-1
CC-204	FINANCE SUITE 213	283	12,300	13,600	208	1	60	0.25	24x24x10	36	CEILING CASSETTE	LG ZRNU123TRAA	OHRU-1
CC-205	OFFICE 213A	283	12,300	13,600	208	1	60	0.25	24x24x10	36	CEILING CASSETTE	LG ZRNU123TRAA	OHRU-1
CC-206	SUITE 211	283	12,300	13,600	208	1	60	0.25	24x24x10	36	CEILING CASSETTE	LG ZRNU123TRAA	OHRU-1
CC-207	SUITE 211	283	12,300	13,600	208	1	60	0.25	24x24x10	36	CEILING CASSETTE	LG ZRNU123TRAA	OHRU-1
CC-208	OFFICE 211A	283	12,300	13,600	208	1	60	0.25	24x24x10	36	CEILING CASSETTE	LG ZRNU123TRAA	OHRU-2
CC-209	NOT USED	–	–	–	–	–	–	–	–	–	–	–	–
CC-210	PHONE BOOTH 215A	247	5,500	6,100	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU053TRAA	OHRU-2
CC-211	PASSAGE 215	247	5,500	6,100	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU053TRAA	OHRU-2
CC-212	CORRIDOR A2	247	7,500	8,500	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU073TRAA	OHRU-1
CC-213	FINANCE SUITE 214	283	12,300	13,600	208	1	60	0.25	24x24x10	36	CEILING CASSETTE	LG ZRNU123TRAA	OHRU-1
CC-214	FINANCE SUITE 214	283	12,300	13,600	208	1	60	0.25	24x24x10	36	CEILING CASSETTE	LG ZRNU123TRAA	OHRU-1
CC-215	OFFICE 214A	283	12,300	13,600	208	1	60	0.25	24x24x10	36	CEILING CASSETTE	LG ZRNU123TRAA	OHRU-1
CC-216	NOT USED	–	–	–	–	–	–	–	–	–	–	–	–
CC-217	BUDGET SUITE 212	283	12,300	13,600	208	1	60	0.25	24x24x10	36	CEILING CASSETTE	LG ZRNU123TRAA	OHRU-2
CC-218	BUDGET SUITE 212	283	12,300	13,600	208	1	60	0.25	24x24x10	36	CEILING CASSETTE	LG ZRNU123TRAA	OHRU-2
CC-219	OFFICE 212B	247	5,500	6,100	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU053TRAA	OHRU-2
CC-220	OFFICE 212A	247	7,500	8,500	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU073TRAA	OHRU-2
CC-221	A/P SUITE 210	265	9,600	10,900	208	1	60	0.25	24x24x10	36	CEILING CASSETTE	LG ZRNU093TRAA	OHRU-2
CC-222	A/P SUITE 210	265	9,600	10,900	208	1	60	0.25	24x24x10	36	CEILING CASSETTE	LG ZRNU093TRAA	OHRU-2
CC-223	OFFICE 210B	247	7,500	8,500	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU073TRAA	OHRU-2
CC-224	OFFICE 210A	247	5,500	6,100	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU053TRAA	OHRU-2
CC-225	MAIL/COPY/PRINT 209A	388	19,100	21,500	208	1	60	0.25	24x24x11	38	CEILING CASSETTE	LG ZRNU183TQAA	OHRU-2
CC-226	CONFERENCE 209	388	19,100	21,500	208	1	60	0.25	24x24x11	38	CEILING CASSETTE	LG ZRNU183TQAA	OHRU-3
CC-227	A/P SUITE 207	353	15,400	17,100	208	1	60	0.25	24x24x11	38	CEILING CASSETTE	LG ZRNU153TQAA	OHRU-3
CC-228	A/P SUITE 207	353	15,400	17,100	208	1	60	0.25	24x24x11	38	CEILING CASSETTE	LG ZRNU153TQAA	OHRU-3
CC-229	OFFICE 207A	247	7,500	8,500	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU073TRAA	OHRU-3
CC-230	MENS BATHROOM 207B	247	5,500	6,100	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU053TRAA	OHRU-3
CC-231	SHARED OFFICE 205	265	9,600	10,900	208	1	60	0.25	24x24x10	36	CEILING CASSETTE	LG ZRNU093TRAA	OHRU-3
CC-232	CORRIDOR A2	247	7,500	8,500	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU073TRAA	OHRU-3
CC-233	CORRIDOR D2	247	5,500	6,100	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU053TRAA	OHRU-3
CC-234	OFFICE 208B	247	5,500	6,100	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU053TRAA	OHRU-2
CC-235	OFFICE 208A	283	12,300	13,600	208	1	60	0.25	24x24x10	36	CEILING CASSETTE	LG ZRNU123TRAA	OHRU-2
CC-236	AUDITORS SUITE 208	283	12,300	13,600	208	1	60	0.25	24x24x10	36	CEILING CASSETTE	LG ZRNU123TRAA	OHRU-3
CC-237	AUDITORS SUITE 208	283	12,300	13,600	208	1	60	0.25	24x24x10	36	CEILING CASSETTE	LG ZRNU123TRAA	OHRU-3
CC-238	AUDITORS SUITE 206	283	12,300	13,600	208	1	60	0.25	24x24x10	36	CEILING CASSETTE	LG ZRNU123TRAA	OHRU-3
CC-239	AUDITORS SUITE 206	283	12,300	13,600	208	1	60	0.25	24x24x10	36	CEILING CASSETTE	LG ZRNU123TRAA	OHRU-3
CC-240	OFFICE 206B	247	5,500	6,100	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU053TRAA	OHRU-3
CC-241	OFFICE 206A	283	12,300	13,600	208	1	60	0.25	24x24x10	36	CEILING CASSETTE	LG ZRNU123TRAA	OHRU-3

1. PROVIDE ALL UNITS WITH WALL MOUNTED HARD-WIRED THERMOSTAT AND CEILING CASSETTE UNITS WITH INTEGRAL CONDENSATE PUMP.
2. PROVIDE ALL UNITS COMPLETE WITH GRILLE.
3. PROVIDE ALL UNITS WITH CONDENSATE OVERFLOW SWITCH AND INTERLOCK WITH UNIT FOR SHUTDOWN.

VRF AIR HANDLING UNIT SCHEDULE

UNIT TAG	AREA SERVED	TOTAL SUPPLY CFM @ MED	RATED TOTAL COOLING BTU/HR	RATED TOTAL HEATING BTU/HR	ELECTRICAL CHARACTERISTICS				MAXIMUM DIMENSIONS, IN. LxWxH	MAXIMUM WEIGHT LBS.	TYPE	BASIS OF DESIGN MANUFACTURER & MODEL NO.	SERVED BY
					VOLTS	PHASE	CYCLE	AMPS					
CC-301	WOMENS BATHROOM 307	247	5,500	6,100	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU053TRAA	OHRU-1
CC-302	OFFICE 305D	247	5,500	6,100	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU053TRAA	OHRU-1
CC-303	OFFICE 305C	247	5,500	6,100	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU053TRAA	OHRU-1
CC-304	OFFICE 305E	283	12,300	13,600	208	1	60	0.25	24x24x10	36	CEILING CASSETTE	LG ZRNU123TRAA	OHRU-1
CC-305	CORRIDOR A3	247	5,500	6,100	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU053TRAA	OHRU-1
CC-306	REAL ESTATE SUITE 306	247	7,500	8,500	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU073TRAA	OHRU-1
CC-307	OFFICE 306F	247	5,500	6,100	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU053TRAA	OHRU-1
CC-308	OFFICE 306D	247	7,500	8,500	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU073TRAA	OHRU-1
CC-309	FAC SUITE 305	742	24,200	27,300	208	1	60	1.7	37x37x12	75	CEILING CASSETTE	LG ZRNU243TAAA	OHRU-1
CC-310	FAC SUITE 305	742	24,200	27,300	208	1	60	1.7	37x37x12	75	CEILING CASSETTE	LG ZRNU243TAAA	OHRU-1
CC-311	OFFICE 305B	247	5,500	6,100	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU053TRAA	OHRU-1
CC-312	OFFICE 305A	247	5,500	6,100	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU053TRAA	OHRU-1
CC-313	OFFICE 306C	247	7,500	8,500	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU073TRAA	OHRU-1
CC-314	OFFICE 306B	247	7,500	8,500	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU073TRAA	OHRU-1
CC-315	OFFICE 306A	247	5,500	6,100	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU053TRAA	OHRU-1
CC-316	MAIL/PRINT/FAX 305F	247	5,500	6,100	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU053TRAA	OHRU-2
CC-317	PASSAGE 303	247	5,500	6,100	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU053TRAA	OHRU-2
CC-318	SHARED CAFE 303B	388	19,100	21,500	208	1	60	0.25	24x24x11	38	CEILING CASSETTE	LG ZRNU183TQAA	OHRU-2
CC-319	CONFERENCE ROOM 301C	247	5,500	6,100	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU053TRAA	OHRU-2
CC-320	CONFERENCE ROOM 304	283	12,300	13,600	208	1	60	0.25	24x24x10	36	CEILING CASSETTE	LG ZRNU123TRAA	OHRU-2
CC-321	CONFERENCE ROOM 304	283	12,300	13,600	208	1	60	0.25	24x24x10	36	CEILING CASSETTE	LG ZRNU123TRAA	OHRU-2
CC-322	CONSTRUCTION SUITE 302	742	24,200	27,300	208	1	60	1.7	37x37x12	75	CEILING CASSETTE	LG ZRNU243TAAA	OHRU-2
CC-323	CONSTRUCTION SUITE 302	742	24,200	27,300	208	1	60	1.7	37x37x12	75	CEILING CASSETTE	LG ZRNU243TAAA	OHRU-2
CC-324	OFFICE 302C	247	5,500	6,100	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU053TRAA	OHRU-2
CC-325	OFFICE 302B	247	5,500	6,100	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU053TRAA	OHRU-2
CC-326	PLANNING SUITE 301	388	19,100	21,500	208	1	60	0.25	24x24x11	38	CEILING CASSETTE	LG ZRNU183TQAA	OHRU-3
CC-327	PLANNING SUITE 301	388	19,100	21,500	208	1	60	0.25	24x24x11	38	CEILING CASSETTE	LG ZRNU183TQAA	OHRU-3
CC-328	OFFICE 301A	247	5,500	6,100	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU053TRAA	OHRU-3
CC-329	OFFICE 301B	247	5,500	6,100	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU053TRAA	OHRU-3
CC-330	OFFICE 302A	247	5,500	6,100	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU053TRAA	OHRU-3
CC-331	CORRIDOR A3	247	5,500	6,100	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU053TRAA	OHRU-3
CC-332	MENS BATHROOM 300	247	5,500	6,100	208	1	60	0.25	24x24x10	34	CEILING CASSETTE	LG ZRNU053TRAA	OHRU-3

1. PROVIDE ALL UNITS WITH WALL MOUNTED HARD-WIRED THERMOSTAT AND INTEGRAL CONDENSATE PUMP.
2. PROVIDE ALL UNITS COMPLETE WITH GRILLE.
3. PROVIDE ALL UNITS WITH CONDENSATE OVERFLOW SWITCH AND INTERLOCK WITH UNIT FOR SHUTDOWN.

VARIABLE AIR VOLUME BOX SCHEDULE

VAV NO.	AREA SERVED	UNIT SERVED	INLET SIZE	SYSTEM AIR		ELECTRIC RE-HEAT COIL							MAX NC DISCHARGE	MAX DIM. LxWxH IN.	BASIS OF DESIGN MANUFACTURER & MODEL #
				MAX CFM	MIN CFM	CAPACITY KW	MBH	ENT AIR °F	LVG AIR °F	STEPS	MCA	VOLT/ PHASE			
VAV-1	CORRIDOR C1	RTU-8	9	850	425	4.7	16.0	55.0	90.0	SCR	30.8	208/1	24	40x20x12	PRICE SDV 9
VAV-2	STORAGE 119C	RTU-8	5	150	75	0.8	2.7	55.0	90.0	SCR	5.2	208/1	20	42x18x12	PRICE SDV 5
VAV-3	ROOM 119B	RTU-8	8	400	200	2.2	7.5	55.0	90.0	SCR	14.4	208/1	21	40x18x12	PRICE SDV 8
VAV-4	ROOM 119A	RTU-8	7	250	125	1.4	4.8	55.0	90.0	SCR	9.2	208/1	22	40x18x12	PRICE SDV 7
VAV-5	LRC 119	RTU-8	12	1100	550	6.1	20.8	55.0	90.0	SCR	40.0	208/1	20	40x22x17	PRICE SDV 12
VAV-6	LRC 119	RTU-8	10	1000	500	5.5	18.8	55.0	90.0	SCR	36.0	208/1	24	40x20x12	PRICE SDV 10
VAV-7	LRC 119	RTU-8	12	1100	550	6.1	20.8	55.0	90.0	SCR	40.0	208/1	20	40x22x17	PRICE SDV 12
VAV-8	LRC 119	RTU-8	10	1000	500	5.5	18.8	55.0	90.0	SCR	36.0	208/1	24	40x20x12	PRICE SDV 10
VAV-9	LRC WORKSTATIONS 219	RTU-8	10	900	450	5.0	17.1	55.0	90.0	SCR	32.8	208/1	22	40x20x12	PRICE SDV 10
VAV-10	CONFERENCE 217	RTU-8	9	500	250	2.8	9.6	55.0	90.0	SCR	18.3	208/1	<20	40x20x12	PRICE SDV 9
VAV-11	CORRIDOR B1 & B2	RTU-8	9	750	375	4.2	14.3	55.0	90.0	SCR	27.5	208/1	22	40x20x12	PRICE SDV 9

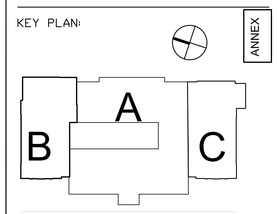
PROVIDE ALL UNITS COMPLETE W/ 24V CONTROLS TRANSFORMER W/ FUSE PROTECTION.
PROVIDE ALL UNITS COMPLETE W/ FOIL FACED LINER.
PROVIDE ALL UNITS COMPLETE WITH UNIT MOUNTED DISCONNECT.

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



No.	Date	Description
	12/08/25	OUT TO BID
	12/03/25	DCA Submission

Revisions / Issues

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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
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MECHANICAL SCHEDULES

Sheet No:
M-401
Sheet 0 of 000

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VRF OUTDOOR HEAT RECOVERY UNIT SCHEDULE

UNIT TAG	TONS	NOMINAL COOLING CAPACITY BTUH	CORRECTED COOLING CAPACITY BTUH AT 95°F	NOMINAL HEATING CAPACITY BTUH	CORRECTED HEATING CAPACITY BTUH AT 47°F	COMPRESSOR			CONDENSER FAN MOTOR		ELECTRICAL CHARACTERISTICS				MAX. AMBIENT TEMP. °F	MAXIMUM DIMENSIONS, IN. LxWxH	OPERATING WEIGHT LBS.	BASIS OF DESIGN MANUFACTURER AND MODEL NO.
						QTY.	H.P. EA.	RLA, COMP.# 1/2/3/4/5	QTY.	FLA 1&2/3&4	VOLTS	PHASE	CYCLE	MCA				
OHRU-1	34	408,000	331,600	459,000	376,200	4	–	23.0/24.4/26.0/23.8	4	10/8.4	208	3	60	72.7/72.7	122	114x30x69	1470	LG ZRUM408BTE6
OHRU-2	30	360,000	282,400	405,000	332,000	4	–	23.0/24.4/22.5/19.3	4	10/8.4	208	3	60	72.7/63.6	122	114x30x69	1464	LG ZRUM360BTE6
OHRU-3	26	312,000	255,000	351,000	287,700	4	–	22.5/20.0/22.5/19.3	4	8.4/8.4	208	3	60	63.6/63.6	122	98x30x69	1332	LG ZRUM312BTE6

VRF INDOOR HEAT RECOVERY UNIT SCHEDULE

UNIT TAG	UNITS SERVED	NO. OF PORTS	MAX PORT CAPACITY BTUH	MAX UNIT CAPACITY BTUH	ELECTRICAL CHARACTERISTICS				MAXIMUM DIMENSIONS, IN. LxWxH	OPERATING WEIGHT LBS.	BASIS OF DESIGN MANUFACTURER AND MODEL NO.
					VOLTS	PHASE	CYCLE	AMPS			
IHRU-B1	CC-B1/CC-B2/CC-B4	4	60,000	230,000	208	1	60	0.1	38x42x11	86	LG PRHR043C
IHRU-101	CC-101/CC-107	2	60,000	120,000	208	1	60	0.1	38x42x11	75	LG PRHR023C
IHRU-102	CC-102/CC-103/CC-108/CC-109/CC-110	4	60,000	230,000	208	1	60	0.1	38x42x11	86	LG PRHR043C
IHRU-103	CC-104/CC-105/CC-111/CC-126/CC-127	3	60,000	180,000	208	1	60	0.1	38x42x11	80	LG PRHR033C
IHRU-104	CC-106/AHU-112/CC-113/AHU-128	4	60,000	230,000	208	1	60	0.1	38x42x11	86	LG PRHR043C
IHRU-105	CC-118/CC-119/CC-120/CC-129	4	60,000	230,000	208	1	60	0.1	38x42x11	86	LG PRHR043C
IHRU-106	CC-114/CC-115/CC-121/CC-130	4	60,000	230,000	208	1	60	0.1	38x42x11	86	LG PRHR043C
IHRU-107	CC-117/CC-122/CC-131/CC-132	4	60,000	230,000	208	1	60	0.1	38x42x11	86	LG PRHR043C
IHRU-108	CC-116/CC-123/CC-124/CC-125	4	60,000	230,000	208	1	60	0.1	38x42x11	86	LG PRHR043C
IHRU-201	CC-201/CC-202/CC-203/CC-204/CC-212	4	60,000	230,000	208	1	60	0.1	38x42x11	86	LG PRHR043C
IHRU-202	CC-205/CC-206/CC-207/CC-213/CC-214/CC-215	4	60,000	230,000	208	1	60	0.1	38x42x11	86	LG PRHR043C
IHRU-203	CC-208/CC-217/CC-218/CC-219/CC-220	4	60,000	230,000	208	1	60	0.1	38x42x11	86	LG PRHR043C
IHRU-204	CC-210/CC-211/CC-221/CC-222/CC-224	4	60,000	230,000	208	1	60	0.1	38x42x11	86	LG PRHR043C
IHRU-205	CC-223/CC-225/CC-234/CC-235	4	60,000	230,000	208	1	60	0.1	38x42x11	86	LG PRHR043C
IHRU-206	CC-226/CC-227/CC-228/CC-236/CC-237	3	60,000	180,000	208	1	60	0.1	38x42x11	80	LG PRHR033C
IHRU-207	CC-229/CC-238/CC-239/CC-240/CC-241	4	60,000	230,000	208	1	60	0.1	38x42x11	86	LG PRHR043C
IHRU-208	CC-230/CC-231/CC-232/CC-233	4	60,000	230,000	208	1	60	0.1	38x42x11	86	LG PRHR043C
IHRU-301	CC-301/CC-302/CC-303/CC-305	4	60,000	230,000	208	1	60	0.1	38x42x11	86	LG PRHR043C
IHRU-302	CC-304/CC-306/CC-307/CC-308	4	60,000	230,000	208	1	60	0.1	38x42x11	86	LG PRHR043C
IHRU-303	CC-309/CC-310/CC-311/CC-312	3	60,000	180,000	208	1	60	0.1	38x42x11	80	LG PRHR033C
IHRU-304	CC-313/CC-314/CC-315	3	60,000	180,000	208	1	60	0.1	38x42x11	80	LG PRHR033C
IHRU-305	CC-316/CC-317/CC-318/CC-320/CC-321	4	60,000	230,000	208	1	60	0.1	38x42x11	86	LG PRHR043C
IHRU-306	CC-319/CC-322/CC-323/CC-324/CC-325	4	60,000	230,000	208	1	60	0.1	38x42x11	86	LG PRHR043C
IHRU-307	CC-326/CC-327/CC-328/CC-329	3	60,000	180,000	208	1	60	0.1	38x42x11	80	LG PRHR033C
IHRU-308	CC-330/CC-331/CC-332	3	60,000	180,000	208	1	60	0.1	38x42x11	80	LG PRHR033C

1. ALL INDOOR HEAT RECOVERY UNITS ARE TO COME EQUIPPED WITH R32 REFRIGERANT AUTOMATIC SHUTOFF VALVES THAT ARE TO ACTIVATE IF THE VRF SYSTEM SENSES A LEAK IN THE ASSOCIATED ZONE.

AIR FILTRATION UNIT SCHEDULE

UNIT TAG	AIRFLOW CFM, LOW SPEED	SUPPLY FAN		ELECTRICAL CHARACTERISTICS				SOUND RATING, LOW SPEED, dB	MAXIMUM DIMENSIONS LxWxH, IN.	OPERATING WEIGHT LBS.	BASIS OF DESIGN MANUFACTURER AND MODEL NO.
		HP	FAN SPEEDS	VOLTS	PHASE	HZ	FLA				
AFU-1	550	1/4	3	120	1	60	3.5	52	33x25x13	67	POWERMATIC PM1200
AFU-2	550	1/4	3	120	1	60	3.5	52	33x25x13	67	POWERMATIC PM1200

1. PROVIDE ALL UNITS WITH REMOTE CONTROLLER FOR WALL MOUNTING.

GRILLES, REGISTERS, & DIFFUSERS SCHEDULE

TAG	STYLE	CFM	MOUNT	FACE	BASIS OF DESIGN MANUFACTURER & MODEL #	MAX NC	REMARKS
A	SQUARE, 3 CONE DIFFUSER	VARIES	AS REQ'D	24x24	PRICE SCD	<19	1
B	ADJUSTABLE FACE BAR GRILLE	VARIES	AS REQ'D	VARIES W/NECK SIZE	PRICE 520	<19	1,3
C	FIXED FACE BAR GRILLE	VARIES	AS REQ'D	VARIES W/NECK SIZE	PRICE 530	<20	1,2
D	SPIRAL DUCT SUPPLY GRILLE	VARIES	AS REQ'D	VARIES W/NECK SIZE	PRICE SDGE	<20	1,3,4

1. REFER TO PLANS FOR QUANTITIES, NECK SIZE, CFM, AND PATTERN.
2. PROVIDE WITH 3P LAY-IN PANEL FOR ACOUSTIC TILE CEILINGS.
3. PROVIDE 22.5° DEFLECTION UNLESS OTHERWISE NOTED.
4. PROVIDE AIR SCOOP DAMPER OPERABLE FROM FACE.

CONDENSATE PUMP SCHEDULE

UNIT TAG	SERVES	GPH	HEAD PRESSURE FT H2O	WATTS	ELECTRICAL CHARACTERISTICS			MAXIMUM DIMENSIONS LxWxH, IN.	BASIS OF DESIGN MANUFACTURER AND MODEL NO.
					VOLTS	PHASE	CYCLE		
CP-1	AHU-112	45	10	93	120	1	60	12x5x5	LITTLE GIANT VCC-20-P
CP-2	AC-1	48	10	93	120	1	60	11x5x7	LITTLE GIANT VCMA-20
CP-3	AC-4	48	10	93	120	1	60	11x5x7	LITTLE GIANT VCMA-20

NOTES:
1. PROVIDE CP-1 COMPLETE WITH HARDWIRE CONNECTION, SAFETY OVERFLOW SWITCH, CHECK VALVE, AND PLENUM RATED.
2. PROVIDE CP-2 & 3 COMPLETE WITH PLUG IN CONNECTION, SAFETY OVERFLOW SWITCH, AND CHECK VALVE.

ELECTRIC CABINET UNIT HEATER SCHEDULE

UNIT TAG	AREA SERVED	ELECTRIC HEATER					MAX DIM. LxWxH, IN.	BASIS OF DESIGN MANUFACTURER AND MODEL NO.
		BTU/HR CAP.	KW	VOLTS	PHASE	AMPS		
CUH-1	LOBBY 108	34,130	10	208	1	48	45x27x10	QMARK CU94510201FF
CUH-2	STAIR 1	10,239	3	208	1	15	35x27x10	QMARK CU93503201FF
CUH-3	STAIR 2	10,239	3	208	1	15	35x27x10	QMARK CU93503201FF
CUH-4	CORRIDOR B1(ENTRANCE)	27,304	8	208	1	40	45x27x10	QMARK CU94508201FF
CUH-5	STAIR 4	27,304	8	208	1	40	45x27x10	QMARK CU94508201FF
CUH-6	CORRIDOR C(ENTRANCE)	27,304	8	208	1	40	45x27x10	QMARK CU94508201FF
CUH-7	CORRIDOR D1(ENTRANCE)	27,304	8	208	1	40	45x27x10	QMARK CU94508201FF

1. PROVIDE ALL UNITS COMPLETE WITH BUILT-IN DISCONNECT SWITCH & BUILT-IN INTEGRAL THERMOSTAT.
2. PROVIDE CUH-6&7 WITH RECESSED CEILING MOUNTING.

ELECTRIC UNIT HEATER SCHEDULE

UNIT TAG	AREA SERVED	ELECTRIC HEATER					MAX DIM. LxWxH, IN.	BASIS OF DESIGN MANUFACTURER AND MODEL NO.
		BTU/HR CAP.	KW	VOLTS	PHASE	AMPS		
UH-1	STORAGE B17	17,000	5.0	208	1	24.0	14x8x16	QMARK MUH05-81
UH-2	STORAGE B13	10,200	3.0	208	1	14.5	14x8x16	QMARK MUH03-81
UH-3	BOILER RM B02	34,100	10	208	1	27.8	18x18x18	QMARK IUH1020
UH-4	BOILER RM B02	34,100	10	208	1	27.8	18x18x18	QMARK IUH1020
UH-5	CUSTODIAL SHOP B05	10,200	3.0	208	1	14.5	14x8x16	QMARK MUH03-81

1. PROVIDE ALL UNITS COMPLETE WITH BUILT-IN DISCONNECT SWITCH & BUILT-IN INTEGRAL THERMOSTAT.
2. PROVIDE ALL UNITS WITH WALL MOUNT BRACKET. MOUNT UNIT MAXIMUM OF 9' AFF.

ELECTRIC WALL/CEILING HEATER SCHEDULE

CUH NO.	AREA SERVED	ELECTRIC HEATER					TYPE	MAX DIM. LxWxH, IN.	BASIS OF DESIGN MANUFACTURER AND MODEL NO.
		BTU/HR CAP.	KW	VOLTS	PHASE	AMPS			
EWH-1	TOILET ROOM 215C	5118	1.5	120	1	12.5	WALL	16x6x20	QMARK AWH3150F

PROVIDE ALL UNITS COMPLETE W/ UNIT MOUNTED DISCONNECT SWITCH AND INTEGRAL UNIT MOUNTED THERMOSTAT.
PROVIDE ALL WALL UNITS WITH SURFACE MOUNTING KIT.

ELECTRIC BASEBOARD SCHEDULE

UNIT TAG	AREA SERVED	LENGTH IN.	ELECTRIC HEATER				MAX DIM. LxWxH, IN.	BASIS OF DESIGN MANUFACTURER AND MODEL NO.
			BTU/HR CAP.	WATTS	VOLTS	AMPS		
EBB-1	OFFICE 110C	28	1,706	500	208	2.4	28x3x9	QMARK HBB508
EBB-2	OFFICE 106B	28	1,706	500	208	2.4	28x3x9	QMARK HBB508
EBB-3	SHELL WOMENS TR	70	5,118	1500	208	7.2	70x3x9	QMARK HBB1508
EBB-4	SHELL MENS TR	70	5,188	1500	208	7.2	70x3x9	QMARK HBB1508
EBB-5	STORAGE 308	46	3,413	1000	208	4.8	46x3x9	QMARK HBB1008
EBB-6	STORAGE 300B	46	3,413	1000	208	4.8	46x3x9	QMARK HBB1008

PROVIDE ALL UNITS COMPLETE WITH BUILT-IN DISCONNECT SWITCH & BUILT-IN INTEGRAL THERMOSTAT.
PROVIDE ALL UNITS COMPLETE WITH OVERTEMPERATURE THERMAL LIMIT PROTECTION AND WIREWAY COVERS.

SPLIT SYSTEM WALL HUNG AIR HANDLING UNIT SCHEDULE

UNIT TAG	AREA SERVED	TOTAL SUPPLY CFM	TOTAL COOLING BTU/HR	TOTAL HEATING BTU/HR	ELECTRICAL CHARACTERISTICS			MAXIMUM DIMENSIONS, IN. LxWxH	OPERATING WEIGHT LBS.	BASIS OF DESIGN MANUFACTURER & MODEL NO.	SERVED BY
					VOLTS	PHASE	CYCLE				
AC-1	MDF 101	460	21,200	22,000	208	1	60	40x9x14	26	LG KNSAE241A	HP-1
AC-2	IDF 215B	264	11,000	12,000	208	1	60	33x8x12	20	LG KNSAE121A	HP-2
AC-3	IDF 305D	264	11,000	12,000	208	1	60	33x8x12	20	LG KNSAE121A	HP-3
AC-4	IDF 116	264	11,000	12,000	208	1	60	33x8x12	20	LG KNSAE121A	HP-4

1. PROVIDE ALL UNITS WITH PROGRAMMABLE, WIRED WALL MOUNTED THERMOSTAT.

AIR COOLED HEAT PUMP UNIT SCHEDULE

UNIT TAG	TONS	COMPRESSOR			CONDENSER FAN MOTOR			ELECTRICAL CHARACTERISTICS				MAX. AMBIENT TEMP. °F	SEER	OPERATING WEIGHT, LBS	MAXIMUM DIMENSIONS, IN. LxWxH	BASIS OF DESIGN MANUFACTURER AND MODEL NO.
		QTY.	H.P. EA.	RLA EA.	QTY.	W EA.	FLA EA.	VOLTS	PHASE	CYCLE	MCA					
HP-1	2	1	–	10.0	1	–	0.4	208	1	60	15	118	18	93	35x14x26	LG KUSAE241A
HP-2	1	1	–	6.7	1	–	0.4	208	1	60	10	118	18	56	29x9x20	LG KUSAE121A
HP-3	1	1	–	6.7	1	–	0.4	208	1	60	10	118	18	56	29x9x20	LG KUSAE121A
HP-4	1	1	–	6.7	1	–	0.4	208	1	60	10	118	18	56	29x9x20	LG KUSAE121A

1. ALL UNITS TO BE PROVIDED WITH LOW AMBIENT WIND BAFFLE AND EC PROVIDED NON-FUSED UNISTRUT MOUNTED DISCONNECT SWITCH.
2. PROVIDE HP-2 & HP-3 WITH WALL BRACKET KIT SIMILAR TO DIVERSITECH QSWB2000.

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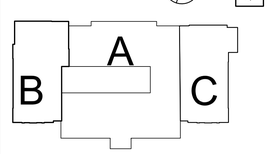

No.	Date	Description
	12/08/25	OUT TO BID
	12/03/25	DCA Submission

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Client:
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201 Mullica Hill Rd.
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Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
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MECHANICAL SCHEDULES

Sheet No:
M-402
Sheet 0 of 000

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VENTILATION SCHEDULE

ROOM NAME	IMC 2018 OCCUPANCY CLASSIFICATION	AREA (FT^2) Az	ROOM HEIGHT (FT)	NUMBER OF FIXTURES	IMC 2021 EXHAUST CFM PER FIXTURE	IMC 2021 CFM PER SQUARE FOOT	TOTAL ZONE EXHAUST	CFM / PERSON Rp	AREA OUTDOOR AIR RATE Ra	OCCUPANT DENSITY PER 1000 FT^2	BREATHING SINGLE ZONE OUTDOOR AIR FLOW RATE Voz=Vbz	ZONE AIR DISTRIBUTION EFFECTIVENESS Ez	ZONE POPULATION Pz	ZONE OUTDOOR AIRFLOW CFM Voz (SINGLE ZONE)	ACTUAL OA CFM PROVIDED TO SPACE	SERVED BY	REMARKS
THIRD FLOOR:															2,700		
FACILITIES SUITE 305	OFFICE	744	9.5	0	0	0	0	5	0.06	5	81	0.8	4	85	100	DOAS-2	
OFFICE 305A	OFFICE	100	9.5	0	0	0	0	5	0.06	5	14	0.8	1	15	50	DOAS-2	
OFFICE 305B	OFFICE	133	9.5	0	0	0	0	5	0.06	5	16	0.8	1	20	50	DOAS-2	
OFFICE 305C	OFFICE	100	9.5	0	0	0	0	5	0.06	5	14	0.8	1	15	50	DOAS-2	
OFFICE 305D	OFFICE	100	9.5	0	0	0	0	5	0.06	5	14	0.8	1	15	50	DOAS-2	
PLOTTER PRINT/WORKRM 305E	OFFICE	138	9.5	0	0	0	0	5	0.06	5	17	0.8	1	20	50	DOAS-2	
PASSAGE 311	CORRIDORS & UTILITIES	158	9.5	0	0	0	0	0	0.06	0	12	0.8	0	15	50	DOAS-2	
SHARED CAFE 303B	BREAK ROOMS	197	9.5	0	0	0	0	5	0.06	25	46	0.8	5	50	50	DOAS-2	
DESIGN & PLANNING SUITE 301	OFFICE	600	9.5	0	0	0	0	5	0.06	5	64	0.8	3	65	100	DOAS-2	
OFFICE 301A	OFFICE	153	9.5	0	0	0	0	5	0.06	5	18	0.8	1	20	50	DOAS-2	
OFFICE 301B	OFFICE	151	9.5	0	0	0	0	5	0.06	5	18	0.8	1	20	50	DOAS-2	
CONFERENCE ROOM 301C	CONFERENCE ROOMS	152	9.5	0	0	0	0	5	0.06	50	61	0.8	8	65	100	DOAS-2	
FACILITIES/REAL ESTATE SUITE 306	OFFICE	312	9.5	0	0	0	0	5	0.06	5	36	0.8	2	40	50	DOAS-2	
OFFICE 306A	OFFICE	118	9.5	0	0	0	0	5	0.06	5	15	0.8	1	20	50	DOAS-2	
OFFICE 306B	OFFICE	125	9.5	0	0	0	0	5	0.06	5	16	0.8	1	20	50	DOAS-2	
OFFICE 306C	OFFICE	118	9.5	0	0	0	0	5	0.06	5	15	0.8	1	20	50	DOAS-2	
OFFICE 306D	OFFICE	118	9.5	0	0	0	0	5	0.06	5	15	0.8	1	20	50	DOAS-2	
OFFICE 306F	OFFICE	87	9.5	0	0	0	0	5	0.06	5	13	0.8	1	15	50	DOAS-2	
OFFICE 306E	OFFICE	295	9.5	0	0	0	0	5	0.06	5	28	0.8	1	30	50	DOAS-2	
CONFERENCE ROOM 304	CONFERENCE ROOMS	608	9.5	0	0	0	0	5	0.06	50	239	0.8	31	240	250	DOAS-2	
CONSTUCTION SUITE 302	OFFICE	727	9.5	0	0	0	0	5	0.06	5	80	0.8	4	80	190	DOAS-2	
OFFICE 302A	OFFICE	140	9.5	0	0	0	0	5	0.06	5	17	0.8	1	20	50	DOAS-2	
OFFICE 302B	OFFICE	143	9.5	0	0	0	0	5	0.06	5	17	0.8	1	20	50	DOAS-2	
OFFICE 302C	OFFICE	141	9.5	0	0	0	0	5	0.06	5	17	0.8	1	20	50	DOAS-2	
WOMENS BATHROOM 309	TOILET/JANITOR CLOSET (PUBLIC)	105	9.5	5	70	0	350	0	0	0	0	0.8	0	350	330	DOAS-2	1
MENS BATHROOM 300	TOILET/JANITOR CLOSET (PUBLIC)	103	9.5	5	70	0	350	0	0	0	0	0.8	0	350	330	DOAS-2	1
CORRIDOR A3	CORRIDORS & UTILITIES	1,640	9.5	0	0	0	0	0	0.06	0	123	0.8	0	125	350	DOAS-2	
SECOND FLOOR:															2,600		
SUITE 216	OFFICE	231	9.5	0	0	0	0	5	0.06	5	30	0.8	2	30	50	DOAS-2	
SUITE 213	OFFICE	505	9.5	0	0	0	0	5	0.06	5	82	0.8	7	85	90	DOAS-2	
OFFICE 213A	OFFICE	116	9.5	0	0	0	0	5	0.06	5	15	0.8	1	15	50	DOAS-2	
SUITE 211	OFFICE	532	9.5	0	0	0	0	5	0.06	5	59	0.8	3	60	100	DOAS-2	
OFFICE 211A	OFFICE	129	9.5	0	0	0	0	5	0.06	5	16	0.8	1	20	50	DOAS-2	
PHONE BOOTH 215A	OFFICE	64	9.5	0	0	0	0	5	0.06	5	11	0.8	1	15	50	DOAS-2	
PASSAGE 215	CORRIDORS & UTILITIES	127	9.5	0	0	0	0	0	0.06	0	10	0.8	0	10	70	DOAS-2	
MAIL/COPY/PRINT 209A	BREAK ROOMS	324	9.5	0	0	0	0	5	0.06	25	81	0.8	9	85	90	DOAS-2	
CONFERENCE 209	CONFERENCE ROOMS	291	9.5	0	0	0	0	5	0.06	50	116	0.8	15	120	120	DOAS-2	
SUITE 207	OFFICE	510	9.5	0	0	0	0	5	0.06	5	82	0.8	7	85	90	DOAS-2	
SUITE 207A	OFFICE	101	9.5	0	0	0	0	5	0.06	5	14	0.8	1	15	50	DOAS-2	
SHARED OFFICE 205	OFFICE	236	9.5	0	0	0	0	5	0.06	5	30	0.8	2	35	50	DOAS-2	
FINANCE SUITE 214	OFFICE	511	9.5	0	0	0	0	5	0.06	5	57	0.8	3	60	90	DOAS-2	
OFFICE 214A	OFFICE	104	9.5	0	0	0	0	5	0.06	5	14	0.8	1	15	50	DOAS-2	
BUDGET SUITE 212	OFFICE	419	9.5	0	0	0	0	5	0.06	5	50	0.8	3	55	90	DOAS-2	
OFFICE 212A	OFFICE	98	9.5	0	0	0	0	5	0.06	5	14	0.8	1	15	50	DOAS-2	
OFFICE 212B	OFFICE	101	9.5	0	0	0	0	5	0.06	5	14	0.8	1	15	50	DOAS-2	
SUITE 210	OFFICE	419	9.5	0	0	0	0	5	0.06	5	63	0.8	5	65	70	DOAS-2	
OFFICE 210A	OFFICE	113	9.5	0	0	0	0	5	0.06	5	15	0.8	1	15	50	DOAS-2	
OFFICE 210B	OFFICE	100	9.5	0	0	0	0	5	0.06	5	14	0.8	1	15	50	DOAS-2	
SUITE 208	OFFICE	390	9.5	0	0	0	0	5	0.06	5	54	0.8	4	55	60	DOAS-2	
OFFICE 208A	OFFICE	115	9.5	0	0	0	0	5	0.06	5	15	0.8	1	15	50	DOAS-2	
OFFICE 208B	OFFICE	108	9.5	0	0	0	0	5	0.06	5	14	0.8	1	15	50	DOAS-2	
SUITE 206	OFFICE	353	9.5	0	0	0	0	5	0.06	5	51	0.8	4	55	60	DOAS-2	
OFFICE 206A	OFFICE	112	9.5	0	0	0	0	5	0.06	5	15	0.8	1	15	50	DOAS-2	
OFFICE 206B	OFFICE	107	9.5	0	0	0	0	5	0.06	5	14	0.8	1	15	50	DOAS-2	
WOMENS BATHROOM 213B	TOILET/JANITOR CLOSET (PUBLIC)	155	9.5	5	70	0	350	0	0	0	0	0.8	0	350	330	DOAS-2	1
MENS BATHROOM 207B	TOILET/JANITOR CLOSET (PUBLIC)	154	9.5	5	70	0	350	0	0	0	350	0.8	0	350	330	DOAS-2	1
CORRIDOR A2	CORRIDORS & UTILITIES	1,888	9.5	0	0	0	0	0	0.06	0	142	0.8	0	145	260	DOAS-2	
FIRST FLOOR:															2,900		
CONFERENCE 113	CONFERENCE ROOMS	619	9.5	0	0	0	0	5	0.06	50	240	0.8	31	245	250	DOAS-1	
CONFERENCE 111	CONFERENCE ROOMS	620	9.5	0	0	0	0	5	0.06	50	240	0.8	31	245	250	DOAS-1	
PASSAGE 109	CORRIDORS & UTILITIES	128	9.5	0	0	0	0	0	0.06	0	10	0.8	0	10	150	DOAS-1	
SHARED KITCHEN 107	BREAK ROOMS	306	9.5	0	0	0	0	5	0.06	25	73	0.8	8	75	80	DOAS-1	
AUDITORS SUITE 105	OFFICE	490	9.5	0	0	0	0	5	0.06	5	56	0.8	3	60	100	DOAS-1	
OFFICE 105A	OFFICE	104	9.5	0	0	0	0	5	0.06	5	14	0.8	1	15	50	DOAS-1	
OFFICE 105B	OFFICE	90	9.5	0	0	0	0	5	0.06	5	13	0.8	1	15	50	DOAS-1	
OFFICE 105C	OFFICE	94	9.5	0	0	0	0	5	0.06	5	13	0.8	1	15	50	DOAS-1	
OFFICE 105D	OFFICE	94	9.5	0	0	0	0	5	0.06	5	13	0.8	1	15	50	DOAS-1	
CONFERENCE 110A	CONFERENCE ROOMS	94	9.5	0	0	0	0	5	0.06	50	38	0.8	5	40	50	DOAS-1	
OFFICE 110B	OFFICE	116	9.5	0	0	0	0	5	0.06	5	15	0.8	1	15	50	DOAS-1	
OFFICE 110C	OFFICE	162	9.5	0	0	0	0	5	0.06	5	18	0.8	1	20	50	DOAS-1	
OFFICE 110D	OFFICE	102	9.5	0	0	0	0	5	0.06	5	14	0.8	1	15	50	DOAS-1	
PROCUREMENT SUITE 110	OFFICE	809	9.5	0	0	0	0	5	0.06	5	92	0.8	5	95	150	DOAS-1	
LOBBY 110	LOBBIES (OFFICES)	300	9.5	0	0	0	0	5	0.06	10	41	0.8	3	45	50	DOAS-1	
UNIVERSITY EVENTS SUITE 106	OFFICE	485	9.5	0	0	0	0	5	0.06	5	55	0.8	3	60	100	DOAS-1	
OFFICE 106A	OFFICE	87	9.5	0	0	0	0	5	0.06	5	13	0.8	1	15	50	DOAS-1	
OFFICE 106B	OFFICE	134	9.5	0	0	0	0	5	0.06	5	16	0.8	1	20	50	DOAS-1	
OFFICE 106C	OFFICE	114	9.5	0	0	0	0	5	0.06	5	15	0.8	1	15	50	DOAS-1	
OFFICE 106D	OFFICE	112	9.5	0	0	0	0	5	0.06	5	15	0.8	1	15	50	DOAS-1	
OFFICE 106E	OFFICE	113	9.5	0	0	0	0	5	0.06	5	15	0.8	1	15	50	DOAS-1	
OFFICE 106F	OFFICE	130	9.5	0	0	0	0	5	0.06	5	16	0.8	1	20	50	DOAS-1	
OFFICE 106G	OFFICE	87	9.5	0	0	0	0	5	0.06	5	13	0.8	1	15	50	DOAS-1	
MENS LAV 104	TOILET/JANITOR CLOSET (PUBLIC)	224	9.5	5	70	0	350	0	0	0	0	0.8	0	350	330	DOAS-1	1
WOMENS LAV 115	TOILET/JANITOR CLOSET (PUBLIC)	242	9.5	4	70	0	280	0	0	0	0	0.8	0	280	250	DOAS-1	1
CORRIDOR A1	CORRIDORS & UTILITIES	1,832	9.5	0	0	0	0	0	0.06	0	137	0.8	0	140	240	DOAS-1	
CORRIDOR D1	CORRIDORS & UTILITIES	1,161	9.5	0	0	0	0	0	0.06	0	87	0.8	0	90	200	DOAS-1	
VENTILATION SCHEDULE CONTINUED																	
MISC ROOMS:																	
TRAINING ROOM 103	CLASSROOMS (9 PLUS)	1,236	9.5	0	0	0	0	10	0.12	35	823	0.8	51	825	900	RTU-1	
MUSIC ROOM 100	CLASSROOMS (9 PLUS)	1,174	9.5	0	0	0	0	10	0.12	35	701	0.8	42	705	750	AHU-1	
MUSIC OFFICE 100A	OFFICE	150	9.5	0	0	0	0	5	0.06	5	18	0.8	1	20	50	AHU-1	
GALLERY	MUSEUMS/GALLERY	2,627	9.5	0	0	0	0	7.5	0.06	40	1191	0.8	106	1,195	1200	RTU-2	

NOTES:
1. REMAINING REQUIRED EXHAUST AIR IS TRANSFERRED TO ROOM FROM CORRIDOR/OTHER ROOMS
ACTUAL VENTILATION AIR SUPPLIED TO SPACES SERVED BY A COMMON SYSTEM CALCULATED IN ACCORDANCE WITH IMC 2021 403.3.2 EQUATION 4-1.

VENTILATION SCHEDULE–ANNEX RTU–A1

ROOM NAME	IMC 2018 OCCUPANCY CLASSIFICATION	NET FLOOR AREA (SQUARE FEET) Az	INTERNATIONAL MECHANICAL CODE 2021 TABLE 403.3								BREATHING ZONE OUTSIDE AIR, Vbz	REQUIRED ZONE OUTSIDE AIR, Voz	SUPPLY CFM TO SPACE, Vpz OR Vdz	ZONE AIR DISTRIBUTION EFFECTIVENESS, Ez	SERVED BY
			OCCUPANT DENSITY (PER 1000 SF)	NUMBER OF OCCUPANTS	ZONE POPULATION Pz	NUMBER OF FIXTURES	EXHAUST AIR		OUTSIDE AIR						
							CFM PER FIXTURE	CFM PER SQUARE FOOT	CFM PER PERSON, Rp	CFM PER SQUARE FOOT, Ra					
FUTURE WORK STATIONS 219	OFFICE SPACE	690	5	4	4	N/A	N/A	N/A	5	0.06	65	85	900	0.8	RTU–8
CONFERENCE 217	CONFERENCE/MEETING	360	50	18	18	N/A	N/A	N/A	5	0.06	115	145	500	0.8	RTU–8
CORRIDOR B2	CORRIDORS	275	0	0	0	N/A	N/A	N/A	0	0.06	20	25	250	0.8	RTU–8
LRC 119	OFFICE SPACE	3230	5	17	17	N/A	N/A	N/A	5	0.06	280	350	4200	0.8	RTU–8
ROOM 119A	OFFICE SPACE	180	5	1	1	N/A	N/A	N/A	5	0.06	20	25	250	0.8	RTU–8
ROOM 119B	OFFICE SPACE	405	5	3	3	N/A	N/A	N/A	5	0.06	40	50	400	0.8	RTU–8
STORAGE 119C	STORAGE ROOMS	180	0	0	0	N/A	N/A	N/A	0	0.12	25	35	150	0.8	RTU–8
CORRIDOR B1	CORRIDORS	628	0	0	0	N/A	N/A	N/A	0	0.06	40	50	500	0.8	RTU–8
CORRIDOR B2	CORRIDORS	1200	0	0	0	N/A	N/A	N/A	0	0.06	75	95	850	0.8	RTU–8

1. ACTUAL VENTILATION AIR SUPPLIED TO SPACES SERVED BY COMMON SYSTEM CALCULATED IN ACCORDANCE WITH IMC 2021 403.3.1, EQUATION 4–8. SEE CALCULATIONS ON THIS SHEET.

GENERAL NOTES: CALCULATED AIRFLOWS IN VENTILATION SCHEDULE ABOVE ARE BASED ON THE FOLLOWING: Vbz=RpPz + RaAz (EQUATION 4–1 IMC 2021), Voz=Vbz/Ez (EQUATION 4–2 IMC 2021) WHERE Ez IS DETERMINED FROM TABLE 403.3.1.1.1.2 IN IMC 2021, AND Vpz IS DETERMINED FROM LOAD CALCULATIONS FOR CLIMATE ZONE 4A INDICATED IN ASHRAE 90.1–2013 THAT WERE PERFORMED IN ACCORDANCE WITH ASHRAE STANDARDS.

RTU–8 VENTILATION CALCULATIONS: VAV SYSTEM

CALCULATIONS PERFORMED AT SYSTEM AIRFLOW

TOTAL SYSTEM SUPPLY AIR (Vpz): 8,000
MINIMUM EXPECTED ZONE SUPPLY AIRFLOW (Vdz): 4,000
UNCORRECTED SUM OF OA FOR ALL SPACES (Vou): 680
AVERAGE OUTDOOR AIR FRACTION (Xs): 0.170
SYSTEM VENTILATION EFFICIENCY (Ev): 0.590
DESIGN OUTDOOR AIRFLOW (Vot): 1,155

EQUATION 4–8 IMC 2021: Vot = Vou/Ev

Vot = 680/0.590
Vot = 1,155

CORRECTED SYSTEM MIN OA (Vot): 1,155 CFM
ACTUAL SYSTEM DESIGN OA = 1,200 CFM

AVERAGE OUTDOOR AIR FRACTION: Xs = Vou/Vdz

Xs = 680/4,000
Xs = 0.170

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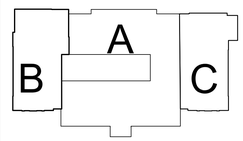

No.	Date	Revisions / Issues
	12/08/25	OUT TO BID
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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: TMW
Checked By: RLD

Sheet Name:
MECHANICAL SCHEDULES

Sheet No:
M-403
Sheet 0 of 000

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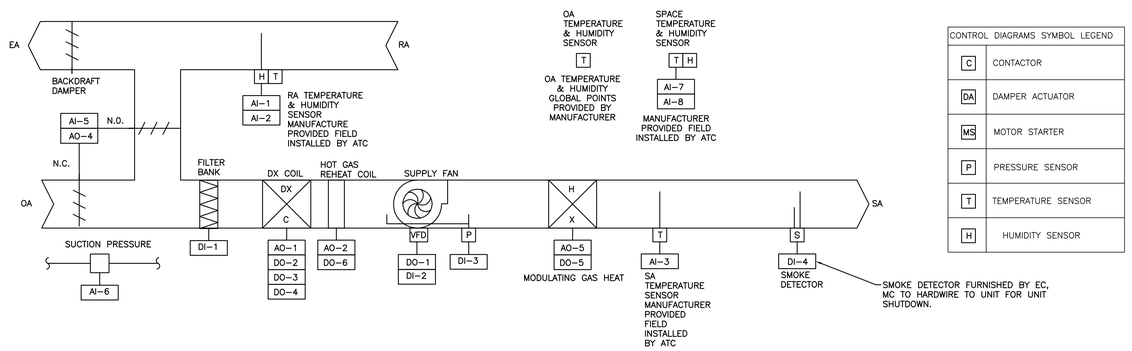

CONTROL DIAGRAMS SYMBOL LEGEND	
C	CONTACTOR
DA	DAMPER ACTUATOR
MS	MOTOR STARTER
P	PRESSURE SENSOR
T	TEMPERATURE SENSOR
H	HUMIDITY SENSOR

PACKAGED ROOFTOP UNIT WITH GAS HEAT POINTS LIST																		
		INPUTS								OUTPUTS								
		DIGITAL			ANALOG					DIGITAL			ANALOG					
POINT TAG	POINT DESCRIPTION	SAFETY SHUT DOWN	STATUS	OCC OVERRIDE	PRESSURE	TEMPERATURE	SETPOINT	HUMIDITY	FEEDBACK	START/STOP	ON/OFF	DAMPER ACTUATOR	MODULATE	SPEED	ALARM			REMARKS
DI–1	DIRTY FILTER SENSOR		X												X			
DI–2	SAFETY SHUT DOWN	X													X			
DI–3	SUPPLY PROOF OF FLOW		X												X			
DI–4	SMOKE DETECTION		X												X			2
DO–1	SUPPLY FAN ENABLE									X								1
DO–2	DX COOLING CIRCUIT 1 ENABLE										X							
DO–3	DX COOLING CIRCUIT 2 STAGE 1 ENABLE										X							3
DO–4	DX COOLING CIRCUIT 2 STAGE 2 ENABLE										X							
DO–5	GAS HEAT ENABLE										X							
DO–6	DEHUMIDIFICATION ENABLE										X							
AI–1	RETURN AIR TEMPERATURE					X												
AI–2	RETURN AIR HUMIDITY							X										
AI–3	SUPPLY AIR TEMPERATURE					X									X			
AI–5	OA/RA DAMPER FEEDBACK								X									
AI–6	SUCTION PRESSURE				X													
AI–7	SPACE TEMPERATURE					X												
AI–8	SPACE HUMIDITY							X										
AO–1	DX COOLING												X					
AO–2	HOT GAS REHEAT												X					
AO–4	OA/RA DAMPER ACTUATOR												X					
AO–5	GAS HEAT												X					
COM	OUTSIDE AIR TEMPERATURE					X												
COM	OUTSIDE AIR HUMIDITY							X										
COM	ZONE TEMPERATURE					X												
COM	ZONE HUMIDITY							X										

1. MOTOR SET TO CONSTANT SPEED AT BALANCING AND STARTUP.
2. RTU–2,3,4,&7 SHALL BE FURNISHED WITH SMOKE DETECTORS FROM EC. MC TO HARDWIRE TO UNIT FOR UNIT SHUTDOWN.
3. RTU–1&7 SHALL HAVE ONLY ONE MODULATING COOLING STAGE WHILE RTU–2,3,&4 SHALL HAVE ONE MODULATING COOLING STAGE AND ONE TWO STAGE.

RTU SEQUENCE OF OPERATION:

UNIT WILL BE PROVIDED WITH UNIT MANUFACTURER CONTROLLER WATTMASTER VCCX. ATC TO COMMUNICATE WITH CONTROLLER VIA BACNET.

A. OCCUPIED MODE INITIATION
1. UNIT OCCUPIED MODE SHALL BE DETERMINED BY CONTROLER SYSTEM SCHEDULING.
2. UNOCCUPIED OPERATION – IN THE UNOCCUPIED MODE, UNIT SHALL OPERATE IN RESPONSE TO A CALL FOR COOLING, HEATING, OR DEHUMIDIFICATION TO MAINTAIN THE SETBACK SPACE TEMPERATURE AND HUMIDITY SETPOINTS. SUPPLY FAN SHALL CYCLE WITH LOAD AND OUTDOOR AIR DAMPER WILL BE CLOSED.

B. HVAC MODES OF OPERATION
1. THERE ARE 5 POSSIBLE HVAC MODES OF OPERATION:
   a. COOLING MODE
   b. HEATING MODE
   c. VENT MODE
   d. DEHUMIDIFICATION MODE
   e. OFF MODE
2. RETURN AIR TEMPERATURE SENSOR WILL DETERMINE WHETHER THE UNIT IS IN HEATING, COOLING OR VENT MODE DURING OCCUPIED OPERATION.

C. COOLING MODE WITH VARIABLE CAPACITY COMPRESSOR(S) AND FIXED COMPRESSOR(S)
1. COOLING IS ENABLED WHEN THE TEMPERATURE AT THE MODE ENABLE SENSOR RISES ONE DEADBAND ABOVE THE COOLING SETPOINT. COOLING IS DISABLED WHEN THE MODE ENABLE TEMPERATURE FALLS ONE DEADBAND BELOW THE COOLING SETPOINT. THE SETPOINT AND DEADBAND ARE USER ADJUSTABLE.
2. IN THE COOLING MODE, AS THE SUPPLY AIR TEMPERATURE (SAT) RISES ABOVE THE ACTIVE SUPPLY AIR COOLING SETPOINT (SEE SUPPLY AIR TEMPERATURE SETPOINT RESET SECTION FOR EXPLANATION), COMPRESSORS WILL MODULATE AND STAGE BASED ON THE UNIT CONFIGURATION IN ORDER TO CONTROL TO THE ACTIVE SUPPLY AIR COOLING SETPOINT.
3. EACH STAGE MUST MEET ITS MINIMUM OFF TIME (ADJ.) BEFORE IT IS ALLOWED TO ENERGIZE AND SUCCESSIVE STAGES CAN ENERGIZE IF THE SAT RISES ABOVE THE ACTIVE SUPPLY AIR COOLING SETPOINT FOR THE COOLING STAGE UP DELAY PERIOD (ADJ).
4. FOR COMPRESSORS TO STAGE DOWN MINIMUM RUN TIMES (ADJ.) MUST BE SATISFIED, AND THE SAT NEEDS TO BE BELOW THE ACTIVE SUPPLY AIR COOLING SETPOINT MINUS THE COOLING STAGE CONTROL FOR A PERIOD OF TIME EQUAL TO THE STAGE DOWN DELAY.
5. MECHANICAL COOLING IS DISABLED IF THE OUTDOOR AIR TEMPERATURE (OAT) FALLS 1° BELOW THE COOLING LOCKOUT SETPOINT AND WILL REMAIN DISABLED UNTIL THE OAT RISES 1° ABOVE THE COOLING LOCKOUT SETPOINT. IF THE OAT DISABLES MECHANICAL COOLING WHILE IT IS CURRENTLY OPERATING, MECHANICAL COOLING WILL STAGE OFF AS MINIMUM RUN TIMES AND STAGE DOWN DELAYS ARE SATISFIED.
6. IF THE ECONOMIZER IS ENABLED IT WILL FUNCTION AS THE FIRST STAGE OF COOLING.

D. HEATING MODE WITH MODULATING GAS HEAT
1. HEATING IS ENABLED WHEN THE TEMPERATURE AT THE MODE ENABLE SENSOR FALLS ONE DEADBAND BELOW THE HEATING SETPOINT. HEATING IS DISABLED WHEN THE MODE ENABLE TEMPERATURE RISES ONE DEADBAND ABOVE THE HEATING SETPOINT.
2. IN THE HEATING MODE, AS THE SUPPLY AIR TEMPERATURE FALLS BELOW THE ACTIVE SUPPLY AIR HEATING SETPOINT (SEE SUPPLY AIR TEMPERATURE SETPOINT RESET SECTION FOR EXPLANATION), THE HEATING WILL BEGIN TO STAGE ON OR TO MODULATE. EACH STAGE MUST MEET ITS MINIMUM OFF TIME (ADJ.) BEFORE IT IS ALLOWED TO ENERGIZE AND SUCCESSIVE STAGES ARE SUBJECT TO A HEATING STAGE UP DELAY (ADJ).
3. HEATING STAGES WILL CONTINUE TO RUN UNTIL THE SUPPLY AIR TEMPERATURE RISES ABOVE THE ACTIVE SUPPLY AIR TEMPERATURE SETPOINT PLUS THE HEATING STAGE CONTROL WINDOW AT WHICH POINT THE HEATING WILL BEGIN TO STAGE OFF. EACH STAGE MUST MEET ITS MINIMUM RUN TIME (ADJ.) BEFORE IT IS ALLOWED TO STAGE OFF, AND SUCCESSIVE STAGES ARE SUBJECT TO A HEATING STAGE DOWN DELAY (ADJ.).
4. MECHANICAL HEATING IS DISABLED IF THE OUTDOOR AIR TEMPERATURE (OAT) RISES 1° ABOVE THE HEATING LOCKOUT SETPOINT AND WILL REMAIN DISABLED UNTIL THE OAT FALLS 1° BELOW THE HEATING LOCKOUT SETPOINT. IF THE OAT DISABLES MECHANICAL HEATING WHILE IT IS CURRENTLY OPERATING, MECHANICAL HEATING WILL STAGE OFF AS MINIMUM RUN TIMES AND STAGE DOWN DELAYS ARE SATISFIED.

E. MODULATING DEHUMIDIFICATION MODE
1. DEHUMIDIFICATION IS ENABLED WHEN THE INDOOR HUMIDITY RISES ABOVE THE INDOOR HUMIDITY ENABLE/HI RESET SETPOINT AND IS DISABLED WHEN THE INDOOR HUMIDITY FALLS BELOW THE DISABLE/LO RESET SETPOINT BY THE RETURN AIR HUMIDITY SENSOR.
2. DEHUMIDIFICATION CAN BE SELECTED AS A PRIORITY MODE AND IS THEN ACTIVE ANYTIME THE HUMIDITY IS ABOVE THE SETPOINT; OTHERWISE IT IS ONLY AVAILABLE WHEN HEATING AND COOLING DEMANDS ARE SATISFIED.
3. ONCE IN DEHUMIDIFICATION, THE UNIT WILL MODULATE AND STAGE COMPRESSORS BASED ON THE UNIT CONFIGURATION IN ORDER TO MAINTAIN THE EVAPORATOR COIL SUCTION (SATURATION) TEMPERATURE AT THE COIL SUCTION (SATURATION) TEMPERATURE SETPOINT.
4. A COIL SUCTION PRESSURE SENSOR IS REQUIRED AND IS TYPICALLY FACTORY INSTALLED.
5. DEHUMIDIFICATION REHEAT IS ALWAYS CONTROLLED TO THE APPROPRIATE ACTIVE SUPPLY AIR TEMPERATURE SETPOINT WHICH WILL BE DEPENDENT ON WHETHER UNIT IS IN COOLING DEHUMIDIFICATION, HEATING DEHUMIDIFICATION, OR VENT DEHUMIDIFICATION. DURING VENT MODE DEHUMIDIFICATION THE SUPPLY AIR TEMPERATURE SETPOINT IS CALCULATED TO BE HALFWAY BETWEEN THE HVAC MODE SETPOINTS.

F. VENTILATION MODE: THIS MODE IS GENERATED ANYTIME THERE IS NO DEMAND FOR HEATING, COOLING, OR DEHUMIDIFICATION.

G. OFF MODE
1. OFF MODE OCCURS IN THE UNOCCUPIED MODE.
2. THE SUPPLY FAN IS OFF AND THE OUTSIDE AIR DAMPER IS CLOSED.

H. ECONOMIZER OPERATION
1. ENABLED WHEN OUTDOOR AIR (OA) DEWPOINT TEMPERATURE FALLS BELOW THE ECONOMIZER ENABLE SETPOINT BY 1° AND THE OA TEMPERATURE IS AT LEAST 5° BELOW THE RETURN AIR TEMPERATURE.
2. ECONOMIZER OPERATION IS DISABLED WHEN THE OA TEMPERATURE RISES 1° ABOVE THE ECONOMIZER ENABLE SETPOINT OR IF THE OA TEMPERATURE RISES 1° ABOVE THE RETURN AIR TEMPERATURE.
3. ECONOMIZER ACTS AS 1ST STAGE OF COOLING AND CONTROLS TO THE ACTIVE SUPPLY AIR COOLING SETPOINT. IF THE ECONOMIZER REACHES 100% AND THE SUPPLY AIR TEMPERATURE IS STILL ABOVE SETPOINT, MECHANICAL COOLING IS ALLOWED TO STAGE UP WHILE THE ECONOMIZER IS HELD AT THE FULL OPEN POSITION.
4. AN ECONOMIZER MINIMUM POSITION CAN BE CONFIGURED IN THE CONTROLLER.
5. ECONOMIZER DAMPER IS CLOSED DURING UNOCCUPIED MODE, EXCEPT WHEN UNOCCUPIED FREE COOLING IS USED DURING NIGHT SETBACK OPERATION.

SEQUENCE OF OPERATION (CONT'D.)

J. SINGLE ZONE VAV
1. IN SINGLE ZONE VAV OPERATION, THE SUPPLY FAN VFD IS MODULATED TO MAINTAIN THE SPACE TEMPERATURE SETPOINT WHILE HEATING OR COOLING IS MODULATED TO MAINTAIN THE ACTIVE SUPPLY AIR SETPOINT.
2. IN THE COOLING MODE THE COMPRESSORS WILL MODULATE OR STAGE TO MAINTAIN THE COOLING LEAVING AIR SETPOINT. THE SUPPLY FAN VFD WILL MODULATE BETWEEN 30% AND 100% AS NEEDED TO MAINTAIN THE CURRENT SPACE TEMPERATURE SETPOINT.
3. IN THE HEATING MODE THE GAS HEAT WILL MODULATE TO MAINTAIN THE HEATING LEAVING AIR SETPOINT. THE SUPPLY FAN VFD WILL MODULATE BETWEEN 50% AND 100% AS NEEDED TO MAINTAIN THE CURRENT SPACE TEMPERATURE SETPOINT.
4. IN THE VENT MODE OF OPERATION THE SUPPLY FAN WILL OPERATE AT 30%.

K. SUPPLY FAN OPERATION
1. OCCUPIED MODE – SUPPLY FAN SHALL BE CONFIGURED TO RUN CONTINUOUSLY.
2. UNOCCUPIED MODE – SUPPLY FAN SHALL CYCLE WITH ALL LOADS.
3. ANYTIME THE FANS ARE REQUESTED TO START, A 1 MINUTE MINIMUM OFF TIMER MUST BE SATISFIED. IF THE TIMER IS SATISFIED THE FAN RELAYS ARE ACTIVATED WHILE ALL OTHER OUTPUTS ARE HELD OFF FOR A PERIOD OF 1–2 MINUTES TO PURGE STAGNATE AIR FROM THE DUCTWORK BEFORE HEATING OR COOLING OCCURS.
4. WHEN ENTERING UNOCCUPIED MODE THE SUPPLY FAN IS HELD ON FOR 2 MINUTES AFTER THE LAST STAGE OF HEATING OR COOLING STAGES OFF.

L. HEAD PRESSURE CONTROL
1. CONTROLLER SHALL MONITOR HEAD PRESSURE TRANSDUCERS AND CONTROL MULTIPLE CONDENSER FANS TO MAINTAIN THE HEAD PRESSURE SETPOINT.
2. DIFFERENT HEAD PRESSURE SETPOINTS ARE USED FOR COOLING MODE AND DEHUMIDIFICATION MODE.

M. SUPPLY AIR TEMPERATURE SETPOINT RESET
1. RETURN AIR TEMPERATURE SHALL BE CONFIGURED TO RESET THE SUPPLY AIR TEMPERATURE (SAT) SETPOINT. SINCE THE SUPPLY AIR TEMPERATURE SETPOINTS ARE NOT FIXED DURING RESET, THEY ARE REFERRED TO AS 'ACTIVE SUPPLY AIR TEMPERATURE SETPOINTS'.
2. A HIGH AND A LOW RESET SOURCE SETPOINT MUST BE CONFIGURED THAT WILL CORRESPOND TO CONFIGURED LOW AND HIGH SAT SETPOINTS. THIS MUST BE DONE SEPARATELY FOR THE COOLING MODE SETPOINTS AND FOR THE HEATING MODE SETPOINTS.
3. WHEN THE RESET SOURCE IS AT ITS HIGHEST CONFIGURED SETPOINT THE SAT SETPOINT WILL BE RESET TO ITS LOWEST CONFIGURED SETPOINT. WHEN THE RESET SOURCE IS AT ITS LOWEST CONFIGURED SETPOINT THE SAT SETPOINT WILL BE RESET TO ITS HIGHEST CONFIGURED SETPOINT.
4. AS THE RESET SOURCE VALUE MOVES WITHIN ITS RANGE ESTABLISHED BY THE CONFIGURED HIGH AND LOW RESET SETPOINTS, THE SUPPLY AIR SETPOINT WILL BE PROPORTIONALLY RESET WITHIN ITS RANGE ESTABLISHED BY THE CONFIGURED LOW AND HIGH SAT SETPOINTS.
5. IN THE VENT MODE OR THE VENT DEHUMIDIFICATION MODE, THE SAT SETPOINT WILL BE CALCULATED TO BE HALFWAY BETWEEN THE HVAC MODE ENABLE SETPOINTS.

N. COIL TEMPERATURE RESET DURING DEHUMIDIFICATION
1. THE RETURN AIR HUMIDITY WILL BE USED TO RESET THE (SATURATION) TEMPERATURE SETPOINT DURING DEHUMIDIFICATION.
2. A USER ADJUSTABLE INDOOR HUMIDITY RANGE CAN BE CREATED TO PROPORTIONALLY RESET THE (SATURATION) TEMPERATURE SETPOINT WITHIN A USER ADJUSTABLE RANGE.

O. DEMAND CONTROL VENTILATION (FOR RTU–3 & 4)
1. IF THE CO_2 LEVELS REMAIN BELOW THE LOW CO_2 LEVEL SETPOINT, THE ECONOMIZER MINIMUM POSITION WILL REMAIN AT ITS CONFIGURED VALUE.
2. AS THE LEVEL OF CO_2 INCREASES ABOVE THE MINIMUM CO_2 LEVEL SETPOINT, THE ECONOMIZER MINIMUM POSITION WILL BEGIN TO BE RESET HIGHER. THE ECONOMIZER MINIMUM POSITION WILL BE PROPORTIONALLY RESET HIGHER AS THE CO_2 RISES WITHIN THE RANGE SET BY THE MINIMUM CO_2 LEVEL SETPOINT AND THE MAXIMUM CO_2 LEVEL SETPOINT. IF THE CO_2 LEVEL REACHES THE HIGH CO_2 LEVEL SETPOINT, THE ECONOMIZER MINIMUM POSITION WILL BE RESET TO THE MAXIMUM RESET POSITION.
3. THE MAXIMUM RESET POSITION SETPOINT IS THE HIGHEST THE ECONOMIZER MINIMUM POSITION CAN BE RESET TO DURING CO_2 CONTROL OPERATION. THIS SETPOINT IS USER–ADJUSTABLE AND DOES NOT KEEP THE ECONOMIZER FROM OPENING FURTHER DURING ECONOMIZER OPERATION.

P. PROOF OF FLOW INTERLOCK
1. PROOF OF FLOW SWITCHES SHALL BE INSTALLED TO PROVIDE 24 VAC WET CONTACT CLOSURE WHEN ASSOCIATED FAN IS OPERATING.
2. IF ONE OF THESE CONTACTS OPEN WHILE THE FAN IS BEING CALLED TO RUN, ALL HEATING AND COOLING IS DISABLED AND A FAN PROVING ALARM IS GENERATED.

Q. DIRTY FILTER STATUS: A DIFFERENTIAL PRESSURE SWITCH SHALL BE INSTALLED TO PROVIDE A 24 VAC WET CONTACT CLOSURE TO INDICATE A DIRTY FILTER STATUS. A DIRTY FILTER ALARM IS THEN GENERATED.

R. EMERGENCY SHUTDOWN: A 24 VAC WET CONTACT SHALL BE USED WHEN A SHUTDOWN CONDITION OCCURS. IF THIS CONTACT OPENS, IT WILL INITIATE IMMEDIATE SHUTDOWN OF THE UNIT AND WILL GENERATE AN ALARM CONDITION.

S. TEMPERATURE PROTECTION
1. ACTIVATED WHEN THE SUPPLY AIR TEMPERATURE (SAT) RISES ABOVE THE HIGH CUTOFF TEMPERATURE (IMMEDIATE) OR DROPS BELOW THE LOW CUTOFF TEMPERATURE (FOR 10 MINUTES) BOTH OF WHICH ARE USER ADJUSTABLE. THIS MODE SHUTS OFF THE UNIT (WITH A 3 MINUTE FAN OFF DELAY) UNTIL THE MODE IS CANCELLED.
2. THIS MODE IS CANCELLED WHEN THE SAT DROPS 10 DEGREES BELOW THE HIGH CUTOFF TEMPERATURE SETPOINT OR RISES 10 DEGREES ABOVE THE LOW TEMP CUTOFF TEMPERATURE SETPOINT, OR WHEN THE UNIT CHANGES BACK INTO OCCUPIED OPERATION.

T. OUTDOOR AIR LOCKOUTS
1. MECHANICAL COOLING IS DISABLED WHEN THE OUTDOOR AIR TEMPERATURE IS BELOW THE COOLING LOCKOUT SETPOINT.
2. MECHANICAL HEATING IS DISABLED WHEN THE OUTDOOR AIR TEMPERATURE IS ABOVE THE HEATING LOCKOUT SETPOINT.

U. DUCT SMOKE DETECTION: DUCT SMOKE DETECTION SHALL BE INTEGRATED TO THE NEW CONTROLLER AS FOLLOWS: SMOKE DETECTOR CONTROL BY FIRE ALARM RELAY BY EC. ATC TO WIRE TO RELAY FOR UNIT SHUTDOWN AND FRONT END ALARM.

1 PACKAGED ROOFTOP UNIT CONTROLS DIAGRAM (RTU-1,2,3,4,&7)

SCALE: NOT TO SCALE

M/E/P Engineer:

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KEY PLAN:

No.	Date	Revisions / Issues
	12/08/25	OUT TO BID
	12/03/25	DCA Submission

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MECH CONTROL DIAGRAMS

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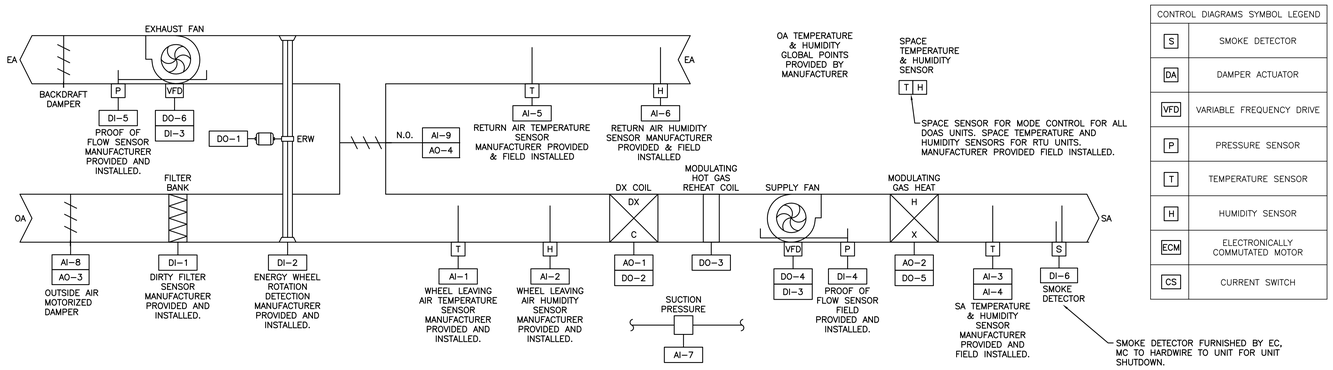


CONTROL DIAGRAMS SYMBOL LEGEND	
S	SMOKE DETECTOR
DA	DAMPER ACTUATOR
VFD	VARIABLE FREQUENCY DRIVE
P	PRESSURE SENSOR
T	TEMPERATURE SENSOR
H	HUMIDITY SENSOR
ECM	ELECTRONICALLY COMMUTATED MOTOR
CS	CURRENT SWITCH

DEDICATED OUTDOOR AIR UNIT/100% OA ROOFTOP UNIT WITH GAS HEAT POINTS LIST

POINT TAG	POINT DESCRIPTION	INPUTS DIGITAL: SAFETY SHUT DOWN	STATUS	OCC OVERRIDE	ANALOG: PRESSURE	TEMPERATURE	SETPOINT	HUMIDITY	OUTPUTS DIGITAL: FEEDBACK	START/STOP	ON/OFF	DAMPER ACTUATOR	ANALOG: MODULATE	SPEED	ALARM	REMARKS
DI-1	DIRTY FILTER SENSOR		X												X	
DI-2	WHEEL ROTATION DETECTION		X													
DI-3	SAFETY SHUT DOWN	X													X	
DI-4	SUPPLY PROOF OF FLOW		X												X	
DI-5	EXHAUST PROOF OF FLOW		X												X	
DI-6	SMOKE DETECTION		X												X	2
DO-1	WHEEL MOTOR STARTER									X						
DO-2	DX COOLING ENABLE										X					
DO-3	DEHUMIDIFICATION ENABLE										X					
DO-4	SUPPLY FAN ENABLE									X						1
DO-5	HEAT ENABLE										X					
DO-6	EXHAUST FAN ENABLE									X						1
AI-1	WHEEL LEAVING AIR TEMP					X										
AI-2	WHEEL LEAVING AIR HUMIDITY							X								
AI-3	SUPPLY AIR TEMPERATURE					X									X	
AI-4	SUPPLY AIR HUMIDITY							X							X	
AI-5	WHEEL RETURN TEMP					X										
AI-6	WHEEL RETURN HUMIDITY							X								
AI-7	SUCTION PRESSURE				X											
AI-8	OA DAMPER FEEDBACK								X							
AI-9	BYPASS DAMPER FEEDBACK								X							
AO-1	DX COOLING													X		
AO-2	GAS HEAT													X		
AO-3	OA DAMPER ACTUATOR													X		
AO-4	BYPASS DAMPER ACTUATOR													X		
COM	OUTSIDE AIR TEMPERATURE				X											
COM	OUTSIDE AIR HUMIDITY							X								

1. MOTOR SET TO CONSTANT SPEED AT BALANCING AND STARTUP
2. ALL DOAS UNITS SHALL BE FURNISHED WITH SMOKE DETECTORS FROM EC. MC TO HARDWIRE TO UNIT FOR UNIT SHUTDOWN.

SEQUENCE OF OPERATION
UNIT WILL BE PROVIDED WITH UNIT MANUFACTURER CONTROLLER WATTMASTER VCCX. ATC TO COMMUNICATE WITH CONTROLLER VIA BACNET.

A. OCCUPIED MODE INITIATION
1. UNIT OCCUPIED MODE SHALL BE DETERMINED BY ATC SYSTEM SCHEDULING.

B. HVAC MODES OF OPERATION
1. THERE ARE 4 POSSIBLE HVAC MODES OF OPERATION:
   a. COOLING MODE
   b. HEATING MODE
   c. VENT MODE
   d. OFF MODE
2. SUPPLY AIR TEMPERATURE SENSOR WILL DETERMINE WHETHER THE UNIT IS IN HEATING, COOLING OR VENT MODE DURING OCCUPIED OPERATION.

C. COOLING MODE WITH VARIABLE CAPACITY COMPRESSOR(S) AND FIXED COMPRESSOR(S)
1. COOLING IS ENABLED WHEN THE TEMPERATURE AT THE MODE ENABLE SENSOR RISES ONE DEADBAND ABOVE THE COOLING SETPOINT. COOLING IS DISABLED WHEN THE MODE ENABLE TEMPERATURE FALLS ONE DEADBAND BELOW THE COOLING SETPOINT. THE SETPOINT AND DEADBAND ARE USER ADJUSTABLE.
2. IN THE COOLING MODE, AS THE SUPPLY AIR TEMPERATURE (SAT) RISES ABOVE THE ACTIVE SUPPLY AIR COOLING SETPOINT (SEE SUPPLY AIR TEMPERATURE SETPOINT RESET SECTION FOR EXPLANATION), COMPRESSORS WILL MODULATE AND STAGE BASED ON THE UNIT CONFIGURATION IN ORDER TO CONTROL TO THE ACTIVE SUPPLY AIR COOLING SETPOINT.
3. EACH STAGE MUST MEET ITS MINIMUM OFF TIME (ADJUSTABLE) BEFORE IT IS ALLOWED TO ENERGIZE AND SUCCESSIVE STAGES CAN ENERGIZE IF THE SAT RISES ABOVE THE ACTIVE SUPPLY AIR COOLING SETPOINT FOR THE COOLING STAGE UP DELAY PERIOD (ADJ.).
4. FOR COMPRESSORS TO STAGE DOWN MINIMUM RUN TIMES (ADJ.) MUST BE SATISFIED, AND THE SAT NEEDS TO BE BELOW THE ACTIVE SUPPLY AIR COOLING SETPOINT MINUS THE COOLING STAGE CONTROL FOR A PERIOD OF TIME EQUAL TO THE STAGE DOWN DELAY.
5. MECHANICAL COOLING IS DISABLED IF THE OUTDOOR AIR TEMPERATURE (OAT) FALLS 1° BELOW THE COOLING LOCKOUT SETPOINT (ADJ.) AND WILL REMAIN DISABLED UNTIL THE OAT RISES 1° ABOVE THE COOLING LOCKOUT SETPOINT (ADJ.). IF THE OAT DISABLES MECHANICAL COOLING WHILE IT IS CURRENTLY OPERATING, MECHANICAL COOLING WILL STAGE OFF AS MINIMUM RUN TIMES AND STAGE DOWN DELAYS ARE SATISFIED.
6. IF THE ECONOMIZER IS ENABLED IT WILL FUNCTION AS THE FIRST STAGE OF COOLING.

D. HEATING MODE WITH MODULATING GAS HEAT
1. HEATING IS ENABLED WHEN THE TEMPERATURE AT THE MODE ENABLE SENSOR FALLS ONE DEADBAND BELOW THE HEATING SETPOINT. HEATING IS DISABLED WHEN THE MODE ENABLE TEMPERATURE RISES ONE DEGREE DEADBAND ABOVE THE HEATING SETPOINT.
2. IN THE HEATING MODE, AS THE SUPPLY AIR TEMPERATURE FALLS BELOW THE ACTIVE SUPPLY AIR HEATING SETPOINT (SEE SUPPLY AIR TEMPERATURE SETPOINT RESET SECTION FOR EXPLANATION), THE HEATING WILL BEGIN TO STAGE ON OR TO MODULATE. EACH STAGE MUST MEET ITS MINIMUM OFF TIME (ADJ.) BEFORE IT IS ALLOWED TO ENERGIZE AND SUCCESSIVE STAGES ARE SUBJECT TO A HEATING STAGE UP DELAY (ADJ.).
3. HEATING STAGES WILL CONTINUE TO RUN UNTIL THE SUPPLY AIR TEMPERATURE RISES ABOVE THE ACTIVE SUPPLY AIR TEMPERATURE SETPOINT PLUS THE HEATING STAGE CONTROL WINDOW AT WHICH POINT THE HEATING WILL BEGIN TO STAGE OFF. EACH STAGE MUST MEET ITS MINIMUM RUN TIME (ADJ.) BEFORE IT IS ALLOWED TO STAGE OFF, AND SUCCESSIVE STAGES ARE SUBJECT TO A HEATING STAGE DOWN DELAY (ADJ.).
4. MECHANICAL HEATING IS DISABLED IF THE OUTDOOR AIR TEMPERATURE (OAT) RISES 1° ABOVE THE HEATING LOCKOUT SETPOINT AND WILL REMAIN DISABLED UNTIL THE OAT FALLS 1° BELOW THE HEATING LOCKOUT SETPOINT. IF THE OAT DISABLES MECHANICAL HEATING WHILE IT IS CURRENTLY OPERATING, MECHANICAL HEATING WILL STAGE OFF AS MINIMUM RUN TIMES AND STAGE DOWN DELAYS ARE SATISFIED.

1 DOAS-1,2,&3 & RTU-5&6 CONTROLS DIAGRAM
SCALE: NOT TO SCALE

SEQUENCE OF OPERATION (CONT'D.)

E. MODULATING DEHUMIDIFICATION MODE
1. DEHUMIDIFICATION IS ENABLED WHEN THE SUPPLY AIR HUMIDITY RISES ABOVE THE HUMIDITY ENABLE/HI RESET SETPOINT AND IS DISABLED WHEN THE SUPPLY AIR HUMIDITY FALLS BELOW THE DISABLE/LO RESET SETPOINT.
2. DEHUMIDIFICATION CAN BE SELECTED AS A PRIORITY MODE AND IS THEN ACTIVE ANYTIME THE HUMIDITY IS ABOVE THE SETPOINT; OTHERWISE IT IS ONLY AVAILABLE WHEN HEATING AND COOLING DEMANDS ARE SATISFIED.
3. ONCE IN DEHUMIDIFICATION, THE UNIT WILL MODULATE AND STAGE COMPRESSORS BASED ON THE UNIT CONFIGURATION IN ORDER MAINTAIN THE EVAPORATOR COIL SUCTION (SATURATION) TEMPERATURE AT THE COIL SUCTION (SATURATION) TEMPERATURE SETPOINT.
4. A COIL SUCTION PRESSURE SENSOR IS REQUIRED AND IS TYPICALLY FACTORY INSTALLED.
5. DEHUMIDIFICATION REHEAT IS ALWAYS CONTROLLED TO THE APPROPRIATE ACTIVE SUPPLY AIR TEMPERATURE SETPOINT WHICH WILL BE DEPENDENT ON WHETHER UNIT IS IN COOLING DEHUMIDIFICATION, HEATING DEHUMIDIFICATION, OR VENT DEHUMIDIFICATION. DURING VENT MODE DEHUMIDIFICATION THE SUPPLY AIR TEMPERATURE SETPOINT IS CALCULATED TO BE HALFWAY BETWEEN THE HVAC MODE SETPOINTS.

F. VENTILATION MODE: THIS MODE IS GENERATED ANYTIME THERE IS NO DEMAND FOR HEATING, COOLING, OR DEHUMIDIFICATION.

G. OFF MODE
1. OFF MODE OCCURS IN THE UNOCCUPIED MODE.
2. THE SUPPLY AND EXHAUST FANS ARE OFF AND THE OUTSIDE AIR DAMPER IS CLOSED.

H. ECONOMIZER OPERATION
1. ENABLED WHEN OUTDOOR AIR (OA) DEWPOINT TEMPERATURE FALLS BELOW THE ECONOMIZER ENABLE SETPOINT BY 1° AND THE OA TEMPERATURE IS AT LEAST 5° BELOW THE RETURN AIR TEMPERATURE.
2. ECONOMIZER OPERATION IS DISABLED WHEN THE OA TEMPERATURE RISES 1° ABOVE THE ECONOMIZER ENABLE SETPOINT OR IF THE OA TEMPERATURE RISES 1° ABOVE THE RETURN AIR TEMPERATURE.
3. ECONOMIZER ACTS AS 1ST STAGE OF COOLING AND CONTROLS TO THE ACTIVE SUPPLY AIR COOLING SETPOINT. IF THE ECONOMIZER REACHES 100% AND THE SUPPLY AIR TEMPERATURE IS STILL ABOVE SETPOINT, MECHANICAL COOLING IS ALLOWED TO STAGE UP WHILE THE ECONOMIZER IS HELD AT THE FULL OPEN POSITION.
4. AN ECONOMIZER MINIMUM POSITION CAN BE CONFIGURED IN THE CONTROLLER.
5. ECONOMIZER DAMPER IS CLOSED DURING UNOCCUPIED MODE, EXCEPT WHEN UNOCCUPIED FREE COOLING IS USED DURING NIGHT SETBACK OPERATION.

I. DOAS OPERATION (FOR DOAS UNITS DOAS-1, 2, 3).
1. THE SUPPLY AND EXHAUST FANS SHALL OPERATE IN CONSTANT VOLUME MODE.
2. IN THE COOLING MODE THE COMPRESSORS WILL MODULATE OR STAGE TO MAINTAIN THE ACTIVE SUPPLY AIR TEMPERATURE SETPOINT.
3. IN THE HEATING MODE THE GAS HEAT WILL MODULATE TO MAINTAIN THE ACTIVE SUPPLY AIR TEMPERATURE SETPOINT.

J. SUPPLY FAN OPERATION
1. OCCUPIED MODE – SUPPLY AND EXHAUST FANS SHALL BE CONFIGURED TO RUN CONTINUOUSLY.
2. UNOCCUPIED MODE – SUPPLY AND EXHAUST FANS SHALL BE DISABLED.
3. ANYTIME THE FANS ARE REQUESTED TO START, A 1 MINUTE MINIMUM OFF TIMER MUST BE SATISFIED. IF THE TIMER IS SATISFIED THE FAN RELAYS ARE ACTIVATED WHILE ALL OTHER OUTPUTS ARE HELD OFF FOR A PERIOD OF 1–2 MINUTES TO PURGE STAGNATE AIR FROM THE DUCTWORK BEFORE HEATING OR COOLING OCCURS.
4. WHEN ENTERING UNOCCUPIED MODE THE SUPPLY FAN IS HELD ON FOR 2 MINUTES AFTER THE LAST STAGE OF HEATING OR COOLING STAGES OFF.

K. HEAD PRESSURE CONTROL
1. CONTROLLER SHALL MONITOR HEAD PRESSURE TRANSDUCERS AND CONTROL MULTIPLE CONDENSER FANS TO MAINTAIN THE HEAD PRESSURE SETPOINT.
2. DIFFERENT HEAD PRESSURE SETPOINTS ARE USED FOR COOLING MODE AND DEHUMIDIFICATION MODE.

L. COIL TEMPERATURE RESET DURING DEHUMIDIFICATION
1. THE SUPPLY AIR HUMIDITY WILL BE USED TO RESET THE (SATURATION) TEMPERATURE SETPOINT DURING DEHUMIDIFICATION.

M. HEAT WHEEL OPERATION
1. A HEAT WHEEL RELAY SHALL BE CONFIGURED AND WILL BE ACTIVE ANYTIME THE SUPPLY FAN IS OPERATING.
2. IF THE HEAT WHEEL RELAY IS ACTIVE, A HEAT WHEEL DEFROST CYCLE WILL OCCUR THAT WILL TURN THE HEAT WHEEL RELAY OFF FOR 2 MINUTES IF BOTH OF THE FOLLOWING CONDITIONS OCCUR:
   a. THE OUTDOOR TEMPERATURE IS BELOW THE HEAT WHEEL DEFROST SETPOINT (ADJ.).
   b. 30 MINUTES HAVE ELAPSED SINCE THE LAST DEFROST CYCLE.

N. PROOF OF FLOW INTERLOCK
1. PROOF OF FLOW SWITCHES SHALL BE INSTALLED TO PROVIDE 24 VAC WET CONTACT CLOSURE WHEN ASSOCIATED FAN IS OPERATING.
2. IF ONE OF THESE CONTACTS OPEN WHILE THE FANS ARE BEING CALLED TO RUN, ALL HEATING AND COOLING IS DISABLED AND A FAN PROVING ALARM IS GENERATED.

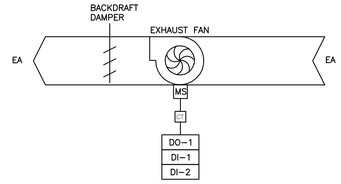
O. DIRTY FILTER STATUS: A DIFFERENTIAL PRESSURE SWITCH SHALL BE INSTALLED TO PROVIDE A 24 VAC WET CONTACT CLOSURE TO INDICATE A DIRTY FILTER STATUS. A DIRTY FILTER ALARM IS THEN GENERATED.

P. EMERGENCY SHUTDOWN: A 24 VAC WET CONTACT SHALL BE USED WHEN A SHUTDOWN CONDITION OCCURS. IF THIS CONTACT OPENS, IT WILL INITIATE IMMEDIATE SHUTDOWN OF THE UNIT AND WILL GENERATE AN ALARM CONDITION.

Q. TEMPERATURE PROTECTION
1. ACTIVATED WHEN THE SUPPLY AIR TEMPERATURE (SAT) RISES ABOVE THE HIGH CUTOFF TEMPERATURE (IMMEDIATE) OR DROPS BELOW THE LOW CUTOFF TEMPERATURE (FOR 10 MINUTES) BOTH OF WHICH ARE USER ADJUSTABLE. THIS MODE SHUTS OFF THE UNIT (WITH A 3 MINUTE FAN OFF DELAY) UNTIL THE MODE IS CANCELED.
2. THIS MODE IS CANCELED WHEN THE SAT DROPS 10 DEGREES BELOW THE HIGH CUTOFF TEMPERATURE SETPOINT OR RISES 10 DEGREES ABOVE THE LOW TEMP CUTOFF TEMPERATURE SETPOINT, OR WHEN THE UNIT CHANGES BACK INTO OCCUPIED OPERATION.

R. OUTDOOR AIR LOCKOUTS
1. MECHANICAL COOLING IS DISABLED WHEN THE OUTDOOR AIR TEMPERATURE IS BELOW THE COOLING LOCKOUT SETPOINT (ADJ).
2. MECHANICAL HEATING IS DISABLED WHEN THE OUTDOOR AIR TEMPERATURE IS ABOVE THE HEATING LOCKOUT SETPOINT (ADJ).

S. DUCT SMOKE DETECTION: DUCT SMOKE DETECTION SHALL BE INTEGRATED TO THE NEW CONTROLLER AS FOLLOWS: SMOKE DETECTOR CONTROL BY FIRE ALARM RELAY BY EC. ATC TO WIRE TO RELAY FOR UNIT SHUTDOWN AND FRONT END ALARM.



NEW EXHAUST FAN POINTS LIST

POINT TAG	POINT DESCRIPTION	INPUTS DIGITAL: SAFETY SHUT DOWN	STATUS	OCC OVERRIDE	ANALOG: POSITION	TEMPERATURE	SETPOINT	HUMIDITY	OUTPUTS DIGITAL: OPEN/CLOSED	ON/OFF	ANALOG: VALVE ACTUATOR	MODULATE	SPEED	FUNCTION: ALARM			REMARKS
DI-1	EXHAUST FAN STATUS		X														
DO-1	EXHAUST FAN START/STOP									X							
DI-2	EXHAUST FAN ALARM													X			

NEW EXHAUST FAN SEQUENCE OF OPERATION (EF-1, 2):

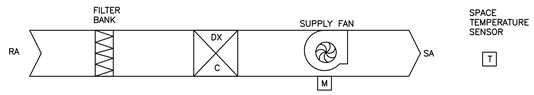
A. THE TRANSFER FANS SHALL OPERATE ON BUILDING OCCUPANCY SCHEDULE. EACH FAN SHALL HAVE ABILITY TO OPERATE ON ITS OWN OCCUPANCY SCHEDULE IN ADDITION TO GLOBAL BUILDING OCCUPANCY SCHEDULE.

B. OCCUPIED MODE: THE EXHAUST FAN SHALL START.

C. UNOCCUPIED MODE: THE FAN SHALL STOP.

D. THE BMS SHALL MONITOR THE STATUS OF THE EXHAUST FANS (VIA CS) AND GENERATE AN ALARM IF THE FAN FAILS TO RESPOND TO A START/STOP COMMAND.

2 EXHAUST FAN CONTROLS DIAGRAM
SCALE: NOT TO SCALE



SEQUENCE OF OPERATION INDOOR VRF UNITS:

1. UNIT OPERATION: ATC SYSTEM SHALL ENABLE EACH UNIT IN OCCUPIED MODE. EACH INDOOR UNIT SHALL OPERATE OFF OWN HARD WIRED THERMOSTAT IN AUTO MODE TO ENABLE COOLING OR HEATING AS REQUIRED TO MEET SPACE TEMPERATURE SETPOINT.

3 VRF INDOOR UNIT CONTROLS DIAGRAM
SCALE: NOT TO SCALE

AC/HP SEQUENCE OF OPERATION:

A. DUCTLESS SPLIT SYSTEM AIR CONDITIONERS SHALL BE OPERATED BY MANUFACTURER CONTROLS. THE ATC CONTRACTOR SHALL PROVIDE A WALL MOUNTED TEMPERATURE SENSOR TO MONITOR THE TEMPERATURE IN EACH ROOM. AHU FAN SHALL BE SET TO RUN CONTINUOUSLY. AN ALARM SHALL BE GENERATED IF THE TEMPERATURE RISES ABOVE A USER DEFINABLE SETPOINT.

B. DISPLAY/INTERFACE REQUIREMENTS:
1. ROOM #
2. ZONE TEMPERATURE
3. UNIT OPERATION (MOUNT A CURRENT SENSOR ON THE COMPRESSOR MOTOR LEADS TO PROVE OPERATION).

4 SPLIT UNIT CONTROLS SEQUENCE OF OPERATION
SCALE: NOT TO SCALE

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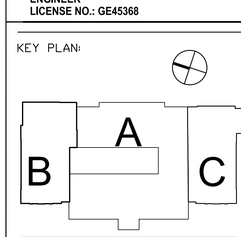
KEY PLAN:



No.	Date	Description
	12/08/25	OUT TO BID
	12/03/25	DCA Submission

Revisions / Issues

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Drawing Information:
Project No: 25.024
Date:
Drawn By: TMW
Checked By: RLD

Sheet Name:
MECH CONTROL DIAGRAMS

Sheet No:
M-501
Sheet 0 of 000

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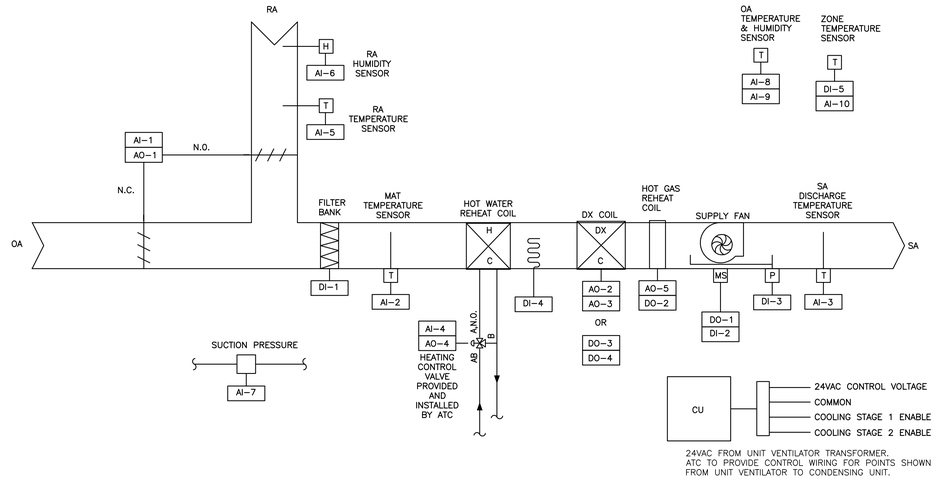


AIR HANDLING UNIT POINTS LIST																			
POINT TAG	POINT DESCRIPTION	INPUTS								OUTPUTS					FUNCTION			REMARKS
		DIGITAL			ANALOG					DIGITAL			ANALOG					
		SAFETY SHUT DOWN	STATUS	OCC OVERRIDE	POSITION	TEMPERATURE	SETPOINT	HUMIDITY		OPEN/CLOSED	ON/OFF	VALVE ACTUATOR	MODULATE	SPEED	ALARM			
DI-1	DIRTY FILTER SENSOR		X												X			
DI-2	SAFETY SHUT DOWN	X													X			
DI-3	SUPPLY PROOF OF FLOW		X												X			
DI-4	FREEZESTAT	X	X												X			1
DI-5	OCCUPANCY OVERRIVE			X														
DO-1	SUPPLY FAN ENABLE										X							
DO-2	DEHUMIDIFICATION ENABLE										X							
AI-1	OA/RA DAMPER FEEDBACK				X													
AI-2	MIXED AIR TEMPERATURE					X												
AI-3	AHU SUPPLY AIR TEMPERATURE					X									X			
AI-4	HOT WATER VALVE FEEDBACK				X													
AI-5	AHU RETURN AIR TEMPERATURE					X									X			
AI-6	RETURN AIR HUMIDITY							X										
AI-7	SUCTION PRESSURE						X											
AI-8	OUTSIDE AIR TEMPERATURE					X												
AI-9	OUTSIDE AIR HUMIDITY							X										
AI-10	ZONE TEMPERATURE					X												
AO-1	OA/RA DAMPER ACTUATOR												X		X			
AO-2	DX COOLING – CIRCUIT 1												X					2
AO-3	DX COOLING – CIRCUIT 2												X					2
AO-4	HOT WATER VALVE													X				
AO-5	HOT GAS REHEAT												X					

1. AHU FREEZESTAT TO BE FACTORY MOUNTED BY AHU MANUFACTURER IN AHU.

1 SPLIT AIR HANDLING UNIT CONTROLS DIAGRAM

SCALE: NOT TO SCALE

CONTROL DIAGRAMS SYMBOL LEGEND	
C	CONTACTOR
DA	DAMPER ACTUATOR
MS	MOTOR STARTER
P	PRESSURE SENSOR
H	HUMIDITY SENSOR
T	TEMPERATURE SENSOR
CT	CURRENT SWITCH

AHU–1 SEQUENCE OF OPERATION:

UNIT WILL BE PROVIDED WITH UNIT MANUFACTURER CONTROLLER WATTMASTER VCCX. ATC TO COMMUNICATE WITH CONTROLLER VIA BACNET.

A. OCCUPIED MODE: THE UNIT CONTROLLER SHALL INDEX THE SUPPLY FAN ON TO RUN CONTINUOUSLY WHILE IN OCCUPIED MODE, INDEX OPEN THE OUTSIDE AIR DAMPER TO ITS MINIMUM POSITION AND ENABLE UNIT. THE OPERATOR WILL BE ABLE TO ADJUST THE UNIT START/STOP TIMES USING THE UNIT CONTROLLER.

B. UNOCCUPIED MODE (TEMPERATURE SET–BACK) HEATING: IN THE UNOCCUPIED PERIOD THE UNIT SHALL OPERATE IN RESPONSE TO A ZONE SETBACK TEMPERING REQUIREMENT. OPERATION IN THE UNOCCUPIED MODE SHALL ENABLE AHU OPERATION WITH THE O/A DAMPER CLOSED AND THE HEATING COIL CONTROL VALVE SHALL MODULATE TO MAINTAIN SETBACK TEMPERATURE SETPOINT (ADJ.).

C. UNOCCUPIED MODE (TEMPERATURE SET–BACK) COOLING: IN THE UNOCCUPIED PERIOD THE UNIT SHALL OPERATE IN RESPONSE TO A ZONE SETBACK TEMPERING REQUIREMENT. OPERATION IN THE UNOCCUPIED MODE SHALL ENABLE AHU OPERATION WITH THE O/A DAMPER CLOSED AND THE COMPRESSOR(S) ENERGIZED TO MAINTAIN SETBACK TEMPERATURE SETPOINT (ADJ.).

D. LOW TEMPERATURE PROTECTION: THE UNIT CONTROLLER SHALL MONITOR DISCHARGE AIR TEMPERATURE AND SHUT DOWN THE UNIT AND GENERATE AN ALARM IF IT FALLS BELOW 37°F (ADJ). THE SHUTDOWN SHALL BE A REMOTE RESET AND THE O/A DAMPER SHALL CLOSE.

E. FILTER DIFFERENTIAL PRESSURE: THE UNIT CONTROLLER SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE FILTERS AND GENERATE AN ALARM IF THE PRESSURE EXCEEDS A USER DEFINABLE LIMIT.

F. COOLING DEMAND: UPON MODULATION OF COOLING SHALL BE CONFIGURED SUBJECT TO USER ADJUSTABLE MINIMUM RUN TIMES, MINIMUM OFF TIMES, MODULATING UP AND MODULATING DOWN DELAYS.

1. COOLING IS ENABLED WHEN THE TEMPERATURE AT THE MODE ENABLE SPACE SENSOR RISES ONE DEGREE DEADBAND ABOVE THE COOLING SETPOINT. COOLING IS DISABLED WHEN THE MODE ENABLE TEMPERATURE FALLS ONE DEGREE DEADBAND BELOW THE COOLING SETPOINT. THE SETPOINT AND DEADBAND SHALL BE USER ADJUSTABLE.

2. ONCE IN THE COOLING MODE THE UNIT WILL MAINTAIN THE SUPPLY AIR TEMPERATURE AT THE ACTIVE SUPPLY AIR COOLING SETPOINT BY MODULATING THE DIGITAL COMPRESSOR (1.5 – 5.0 VDC OPERATION) WHERE APPLICABLE OR STAGE THE COOLING. A COOLING RELAY MUST BE CONFIGURED.

3. THE DIGITAL COMPRESSOR CONTINUES TO MODULATE WHERE APPLICABLE OR STAGE DURING THE ENTIRE COOLING OPERATION.

4. IF THE ECONOMIZER IS ENABLED IT WILL FUNCTION AS THE STAGE OF COOLING. DEAD BAND SET POINT TO BE ADJUSTABLE.

5. PROVIDE RESET SCHEDULE AS FOLLOWS:

a. INPUT DEVICE: ELECTRONIC TEMPERATURE SENSOR IN RETURN AIR.
b. INPUT DEVICE: ELECTRONIC TEMPERATURE SENSOR IN SUPPLY AIR
c. OUTPUT DEVICE: DDC SYSTEM IN STRAIGHT–LINE RELATIONSHIP FOR THE FOLLOWING CONDITIONS:

1) 60 DEG F WHEN RETURN–AIR TEMPERATURE IS 72 DEG F (ADJ.) OR LESS.
2) 55 DEG F WHEN RETURN–AIR TEMPERATURE IS 75 DEG F (ADJ.) OR LESS.

d. ACTION: RESET SUPPLY–AIR TEMPERATURE SET POINT AS NOTED.
e. UNIT SHALL MODULATE COOLING WITH CONSTANT AIRFLOW TO MEET SPACE TEMPERATURE COOLING LOADS.

G. HEATING COIL CONTROL VALVE (FAIL OPEN): ON A FALL IN DISCHARGE AIR TEMPERATURE BELOW THE HEATING SETPOINT (ADJ.), THE UNIT MOUNTED HEATING COIL CONTROL VALVE SHALL MODULATE TO MAINTAIN THE DISCHARGE TARGET TEMPERATURE. THE DISCHARGE TARGET SHALL BE RESET BASED ON SPACE TEMPERATURE. ON A RISE IN SPACE TEMPERATURE, THE HEATING COIL CONTROL VALVE WILL MODULATE CLOSED. BELOW 45 DEGREES F OUTSIDE TEMPERATURE (ADJ.), 3–WAY VALVE SHALL MODULATE TO 50% (ADJ.) OPEN TO THE COIL AND REMAIN AT THAT POSITION UNLESS OVERRIDDEN BY HEATING SETPOINT CONTROL TO OPEN MORE UNTIL TEMPERATURE OUTSIDE IS ABOVE 47 DEGREE F (ADJ.) DURING THE OCCUPIED MODE.

G.A. UNIT SHALL MODULATE HEATING WITH CONSTANT AIRFLOW TO MEET SPACE TEMPERATURE HEATING LOADS. HEATING COIL CONTROL VALVE SHALL MODULATE BASED ON SUPPLY AIR TEMPERATURE.

H. DEHUMIDIFICATION: WHEN THE RETURN AIR HUMIDITY SENSOR GOES ABOVE 55% RH (ADJ), BAS SHALL ENABLE HOT GAS RE–HEAT AND MODULATE OR ENABLE OR INDEX OR STAGE COMPRESSOR(S) TO MAINTAIN DISCHARGE AIR TEMPERATURE SETTING (ADJ.) LOGIC MUST BE SET TO MAKE COOLING OR DEHUMIDIFICATION THE PRIORITY.

1. ONCE IN DEHUMIDIFICATION MODE, THE UNIT WILL MAINTAIN THE EVAPORATOR COIL SUCTION TEMPERATURE AT THE COIL SUCTION TEMPERATURE SETPOINT BY MODULATING THE DIGITAL COMPRESSOR (1.5 – 5.0 VDC OPERATION) OR STAGE COMPRESSOR.

2. REHEAT IS ALWAYS CONTROLLED TO THE ACTIVE SUPPLY AIR TEMPERATURE SETPOINT.

3. WITH MODULATING HOT GAS REHEAT, UNIT SHALL MODULATE COOLING AND HOT GAS REHEAT AS EFFICIENTLY AS POSSIBLE, TO MEET SPACE HUMIDITY LOADS AND PREVENT SUPPLY AIR TEMPERATURE SWINGS AND OVERCOOLING OF THE SPACE.

I. COIL SUCTION TEMPERATURE SETPOINT RESET: DURING DEHUMIDIFICATION THE SYSTEM WILL AUTOMATICALLY RESET THE COIL SUCTION TEMPERATURE SETPOINT WITHIN A ± 5 DEG RANGE BASED ON THE SPACE OR RETURN AIR HUMIDITY SENSOR CONDITION CHANGING ± 5 % FROM THE HUMIDITY SETPOINT.

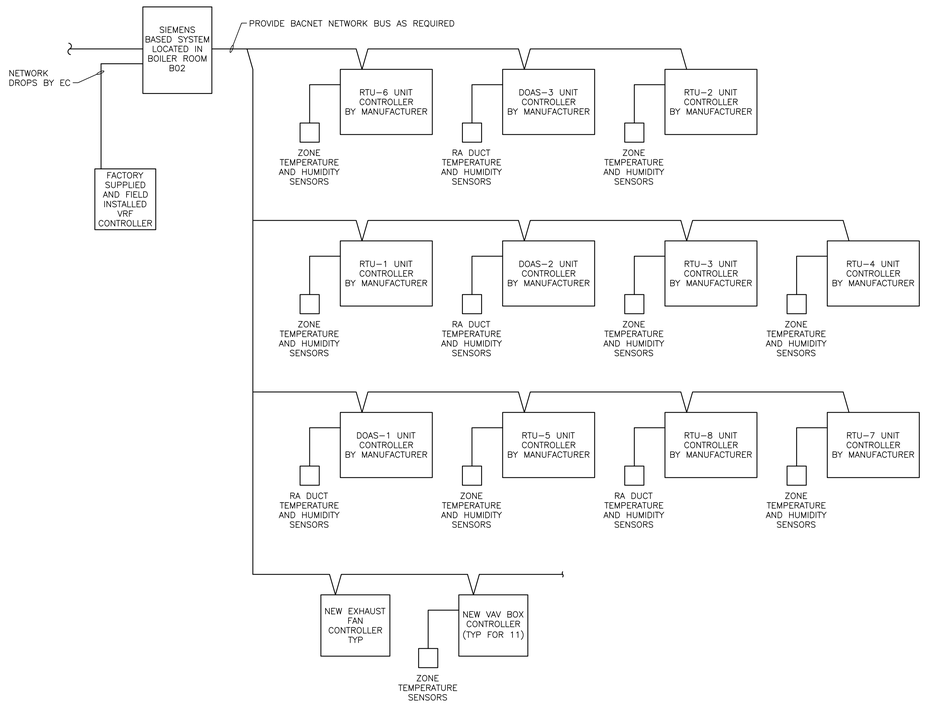
J. OUTSIDE/RETURN AIR DAMPER: THE DAMPER SHALL MOVE TO MINIMUM OUTSIDE AIR POSITION ON OCCUPANCY. PROGRAM SEPARATE OCCUPANCY SCHEDULE FOR OA DAMPERS.

K. ECONOMIZER: PROVIDE DIFFERENTIAL ENTHALPY SEQUENCE TO OPEN THE OA DAMPER FROM ITS MINIMUM POSITION UP TO 100% OPEN POSITION FOR FREE COOLING ONLY WHEN CONDITIONS WARRANT WHEN THERE IS A CALL FOR COOLING AND THE OA HUMIDITY IS BELOW RA HUMIDITY AND THE OA TEMP IS BETWEEN 45 DEG F AND 65 DEG F (ADJ.). THE OUTSIDE AIR DAMPER MODULATES BETWEEN ITS MINIMUM POSITION AND 100% OPEN TO CONTROL ECONOMIZER COOLING CAPACITY. WHEN THE OUTSIDE AIR TEMPERATURE RISES 5 DEGREES F ABOVE ECONOMIZER SETPOINT, THE ECONOMIZER RETURNS TO ITS MINIMUM POSITION IN CURRENT OCCUPANCY MODES.

L. SAFETIES: AUTOMATIC RESET DUAL POLE HARD WIRED FREEZE PROTECTION THERMOSTAT (38 DEGREE F ADJ.) FOR HEATING ONLY (DISABLE DURING COOLING) LOCATED ON THE DISCHARGE AIR SIDE OF THE HEATING COIL. IF FREEZE PROTECTION THERMOSTAT TRIPS OR DISCHARGE AIR TEMPERATURE FALLS BELOW 55 DEGREES F (ADJ.) DURING HEATING MODE, UNIT SHALL ENTER LOW LIMIT MODE AS FOLLOWS:

1. OUTDOOR/RETURN AIR DAMPER OPEN TO RETURN AIR AND VALVE OPEN TO HEATING COIL. NORMAL UNIT OPERATION SHALL RESUME WHEN DISCHARGE AIR TEMPERATURE EXCEEDS 57 DEGREE F (ADJ.), AND FREEZE PROTECTION THERMOSTAT OPENS.

M. CONDENSATE OVERFLOW: THE BAS SHALL MONITOR THE STATUS OF THE CONDENSATE OVERFLOW SWITCH. WHEN LIQUID LEVEL IN DRAIN PAN REACHES A PREDETERMINED LEVEL, THE BAS SHALL SHUT DOWN THE AIR HANDLING UNIT AND GENERATE AN ALARM AT THE FRONT END.



2 NETWORK TREE

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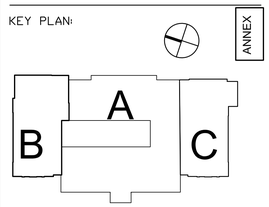
KEY PLAN:



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Drawing Information:
Project No: 25.024
Date:
Drawn By: TMW
Checked By: RLD

Sheet Name:
MECH CONTROL DIAGRAMS

Sheet No:
M-502
Sheet 0 of 000

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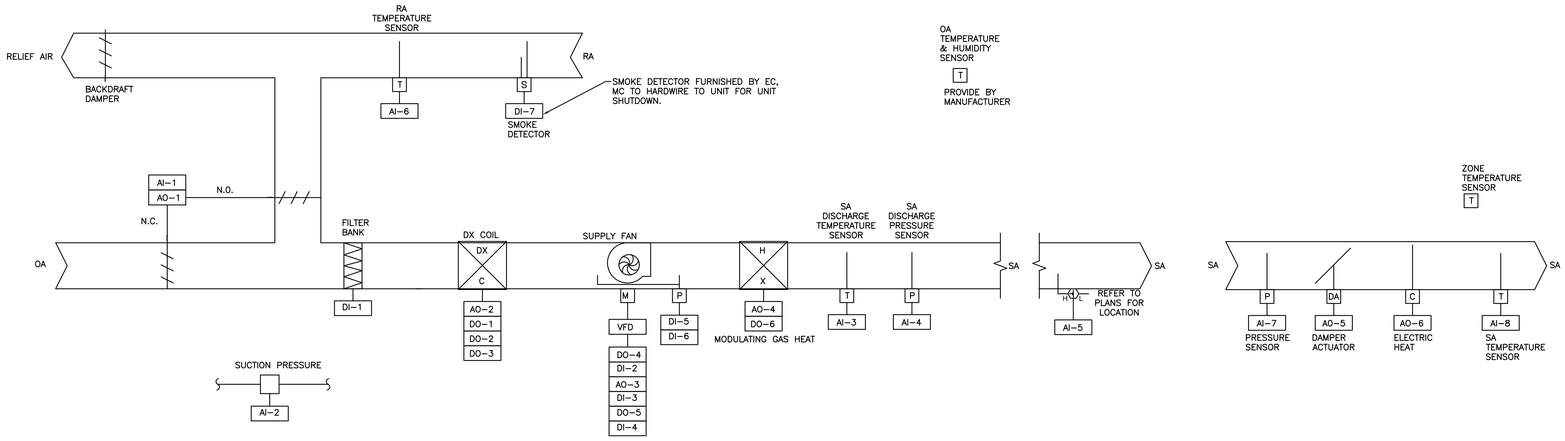

VAV ROOFTOP UNIT (RTU-7 & RTU-8) POINTS LIST																				
POINT TAG	POINT DESCRIPTION	INPUTS							OUTPUTS						FUNCTION			WRITE(W) OR READ(R) ONLY	REMARKS
		DIGITAL			ANALOG				DIGITAL			ANALOG							
		SAFETY SHUT DOWN	STATUS	OCC OVERRIDE	POSITION	TEMPERATURE	SETPOINT	HUMIDITY	OPEN/CLOSED	ON/OFF	VALVE ACTUATOR	MODULATE	SPEED	ALARM				
DI-1	DIRTY FILTER SENSOR		X											X				R	
DI-2	SUPPLY FAN VFD FAULT													X				R	
DI-3	SUPPLY FAN STATUS		X															R	
DI-4	SAFETY SHUT DOWN	X																R	
DI-5	HIGH STATIC SHUT DOWN	X	X											X				R	
DI-6	LOW STATIC SHUT DOWN	X	X											X				R	
DI-7	SMOKE DETECTOR	X	X											X				R	1
DO-1	DX COOLING CIRCUIT 1 ENABLE									X								W	2
DO-2	DX COOLING CIRCUIT 2 STAGE 1 ENABLE									X								W	
DO-3	DX COOLING CIRCUIT 2 STAGE 2 ENABLE									X								W	
DO-4	SUPPLY FAN VFD ENABLE									X								W	
DO-5	SUPPLY FAN START/STOP									X								W	
DO-6	GAS HEAT ENABLE									X								W	
AI-1	OA/RA DAMPER FEEDBACK				X													R	
AI-2	SUCTION PRESSURE					X												R	
AI-3	SUPPLY AIR TEMPERATURE					X								X				R	
AI-4	SUPPLY AIR STATIC PRESSURE						X											R	
AI-5	SUPPLY DUCT STATIC PRESSURE						X											R	
AI-6	RETURN AIR TEMPERATURE					X								X				R	
AO-1	OA/RA DAMPER ACTUATOR										X			X				R	
AO-2	DX COOLING CIRCUIT 1										X							R	2
AO-3	SUPPLY FAN VFD SPEED											X						R	
AO-4	GAS HEAT										X							R	
COM	OUTSIDE AIR TEMPERATURE					X												R	
COM	OUTSIDE AIR HUMIDITY							X										R	

1. ATC TO HARDWIRE TO UNIT FOR SHUTDOWN VIA FIRE ALARM RELAY.
2. RTU-7 & RTU-8 HAS 1 VARIABLE COMPRESSOR AND 1 TWO-STEP COMPRESSOR.

CONTROL DIAGRAMS SYMBOL LEGEND	
C	CONTACTOR
DA	DAMPER ACTUATOR
MS	MOTOR STARTER
P	PRESSURE SENSOR
H	HUMIDITY SENSOR
T	TEMPERATURE SENSOR
CT	CURRENT SWITCH

VAV BOX (VAV-1 TO 11) POINTS LIST																			
POINT TAG	POINT DESCRIPTION	INPUTS							OUTPUTS					FUNCTION			WRITE(W) OR READ(R) ONLY	REMARKS
		DIGITAL			ANALOG				DIGITAL		ANALOG							
		SAFETY SHUT DOWN	STATUS	OCC OVERRIDE	POSITION	TEMPERATURE	SETPOINT	CFM	HUMIDITY	OPEN/CLOSED	ON/OFF	VALVE ACTUATOR	MODULATE	SPEED	ALARM	TREND		
AI-7	VAV BOX AIRFLOW							X								X		R	
AI-8	VAV BOX SUPPLY AIR TEMPERATURE					X									X			R	
AO-5	VAV DAMPER ACTUATOR												X		X			R	
AO-6	ELECTRIC SCR HEAT												X			X		R	
COM	OCCUPANCY OVERRIDE			X														R	
COM	SETPOINT ADJUSTMENT						X											R	
COM	ZONE TEMPERATURE					X										X		R	
COM	ZONE HUMIDITY								X							X		R	
COM	SPACE TEMPERATURE SETPOINT					X												W	

VAV BOX SEQUENCE OF OPERATION:

PROVIDE A TERMINAL UNIT DDC CONTROLLER WITH MEANS TO MONITOR THE OUTLINED CONTROL POINTS, SOFTWARE, HARDWARE, SENSORS, CONTROLLERS, WIRES, ETC. TO ACCOMPLISH THE ABOVE CONTROL POINT MONITORING AND THE BELOW SEQUENCE OF OPERATION.

THE SPACE THERMOSTAT SHALL PROPORTIONATELY POSITION THE PRIMARY AIR DAMPER TO MAINTAIN THE SPACE TEMPERATURE SETPOINT THROUGH THE TERMINAL UNIT CONTROLLER. IF THE SPACE TEMPERATURE RISES ABOVE THE SPACE TEMPERATURE SETPOINT, THE CONTROLLER SHALL MODULATE THE PRIMARY DAMPER IN THE OPEN DIRECTION UNTIL THE SPACE TEMPERATURE FALLS BELOW THE SPACE TEMPERATURE SETPOINT OR UNTIL THE BOX OPENS TO ITS MAXIMUM AIRFLOW LIMIT. IF THE SPACE TEMPERATURE FALLS BELOW THE SPACE TEMPERATURE SETPOINT, THE CONTROLLER SHALL MODULATE THE PRIMARY DAMPER IN THE CLOSED DIRECTION UNTIL THE SPACE TEMPERATURE RISES TO THE SPACE SETPOINT OR THE BOX REACHES ITS MINIMUM AIRFLOW LIMIT.

IF THE SPACE TEMPERATURE FALLS BELOW THE SPACE TEMPERATURE HEATING SETPOINT, THE TERMINAL UNIT CONTROLLER SHALL MODULATE ITS SCR ELECTRIC HEAT IN ORDER TO MAINTAIN THE ZONE HEATING SETPOINT. ONCE ADEQUATE AIRFLOW IS PROVEN IF THE SPACE TEMPERATURE FALLS BELOW THE SPACE TEMPERATURE HEATING SETPOINT WHILE THE ROOFTOP UNIT IS IN HEATING MODE THE CONTROLLER SHALL MODULATE THE PRIMARY AIR DAMPER OPEN UNTIL THE SPACE TEMPERATURE RISES ABOVE THE SPACE TEMPERATURE SETPOINT, THE CONTROLLER SHALL MODULATE THE PRIMARY AIR DAMPER CLOSED UNTIL THE SPACE TEMPERATURE FALLS TO THE SPACE SETPOINT OR THE BOX REACHES ITS MINIMUM AIRFLOW LIMIT.

WARM-UP: ON A SIGNAL FROM THE FMCS THE TERMINAL UNIT CONTROLLER SHALL ENTER THE MORNING WARM-UP MODE. ONCE THE WARM-UP MODE IS COMPLETE THE VAV BOX SHALL REVERT BACK TO NORMAL OPERATION. THE SETPOINTS SHALL BE INITIALLY SET AT 70°F FOR HEATING AND 75°F FOR COOLING.

THE SPACE TEMPERATURE SENSORS SHALL INCLUDE A TEMPERATURE DISPLAY WITH A PLUS/MINUS 2°F OCCUPANT ADJUSTMENT FROM SETPOINT.

1 RTU-8 & VAV BOX CONTROL DIAGRAM

SCALE: NOT TO SCALE

RTU-8 SEQUENCE OF OPERATION:

UNIT WILL BE PROVIDED WITH UNIT MANUFACTURER CONTROLLER WATTMASTER VCCX. ATC TO COMMUNICATE WITH CONTROLLER VIA BACNET.

A. OCCUPIED MODE: THE DDC SYSTEM SHALL INDEX THE SUPPLY FAN & EXHAUST FAN ON TO RUN CONTINUOUSLY WHILE IN OCCUPIED MODE. THE OUTSIDE AIR DAMPER/RETURN AIR DAMPER SHALL BE OPEN TO MINIMUM POSITION. THE OPERATOR WILL BE ABLE TO ADJUST THE UNIT START/STOP TIMES USING THE OPERATOR'S WORKSTATION. THE DDC SYSTEM SHALL MONITOR THE STATUS OF THE SUPPLY FAN AND VFD AND GENERATE AN ALARM IF THE FAN FAILS TO RESPOND TO A START/STOP COMMAND.

B. OCCUPANCY OVERRIDE: THE SPACE TEMPERATURE SENSOR OF EACH VAV WILL HAVE A PUSHBUTTON THAT WHEN PRESSED DURING THE UNOCCUPIED MODE, WILL INDEX THE ASSOCIATED AHU EQUIPMENT TO AN OCCUPIED MODE FOR A PERIOD OF 2-HOURS (ADJUSTABLE).

C. UNOCCUPIED MODE: WHEN THE UNIT IS SHUT DOWN BY EITHER A STOP COMMAND OR SYSTEM SAFETY THE UNIT WILL BE SET AS FOLLOWS: SUPPLY FAN WILL BE OFF, OUTDOOR AIR DAMPER CLOSED, RETURN AIR DAMPER OPEN, EXHAUST FAN WILL BE OFF. UNIT SHALL CYCLE HEATING OR COOLING TO MAINTAIN HEATING OR COOLING SETBACK TEMPERATURE (ADJ.) WITH OUTSIDE AIR DAMPER CLOSED. THE UNIT WILL DE-ENERGIZE WHEN THE SPACE TEMPERATURE IS AT LEAST 4 DEGREE F ABOVE(HEATING) OR BELOW(COOLING) THE UNOCCUPIED SETPOINT.

D. OUTSIDE AIR DAMPER: THE DAMPER SHALL OPEN TO MINIMUM POSITION ON OCCUPANCY. OUTSIDE AIR DAMPER SHALL HAVE AN OVERRIDE AT THE GRAPHICAL FRONT END TO SHUT THE DAMPER. WHEN THE OUTSIDE AIR DAMPER CLOSES, THE RETURN AIR DAMPER OPENS.

E. ECONOMIZER OPERATION:

1. ENABLED WHEN OUTDOOR AIR (OA) DEWPOINT TEMPERATURE FALLS BELOW THE ECONOMIZER ENABLE SETPOINT BY 1° AND THE OA TEMPERATURE IS AT LEAST 5° BELOW THE RETURN AIR TEMPERATURE.
2. ECONOMIZER OPERATION IS DISABLED WHEN THE OA TEMPERATURE RISES 1° ABOVE THE ECONOMIZER ENABLE SETPOINT OR IF THE OA TEMPERATURE RISES 1° ABOVE THE RETURN AIR TEMPERATURE.
3. ECONOMIZER ACTS AS 1ST STAGE OF COOLING AND CONTROLS TO THE ACTIVE SUPPLY AIR COOLING SETPOINT. IF THE ECONOMIZER REACHES 100% AND THE SUPPLY AIR TEMPERATURE IS STILL ABOVE SETPOINT, MECHANICAL COOLING IS ALLOWED TO STAGE UP WHILE THE ECONOMIZER IS HELD AT THE FULL OPEN POSITION.
4. AN ECONOMIZER MINIMUM POSITION CAN BE CONFIGURED IN THE CONTROLLER.
5. ECONOMIZER DAMPER IS CLOSED DURING UNOCCUPIED MODE, EXCEPT WHEN UNOCCUPIED FREE COOLING IS USED DURING NIGHT SETBACK OPERATION.

G. COOLING MODE WITH VARIABLE CAPACITY COMPRESSOR

1. COOLING IS ENABLED WHEN THE TEMPERATURE AT THE MODE ENABLE SENSOR RISES ONE DEADBAND ABOVE THE COOLING SETPOINT. COOLING IS DISABLED WHEN THE MODE ENABLE TEMPERATURE FALLS ONE DEADBAND BELOW THE COOLING SETPOINT. THE SETPOINT AND DEADBAND ARE USER ADJUSTABLE.
2. IN THE COOLING MODE, AS THE SUPPLY AIR TEMPERATURE (SAT) RISES ABOVE THE ACTIVE SUPPLY AIR COOLING SETPOINT (SEE SUPPLY AIR TEMPERATURE SETPOINT RESET SECTION FOR EXPLANATION), COMPRESSORS WILL MODULATE AND STAGE BASED ON THE UNIT CONFIGURATION IN ORDER TO CONTROL TO THE ACTIVE SUPPLY AIR COOLING SETPOINT.
3. EACH STAGE MUST MEET ITS MINIMUM OFF TIME (ADJ.) BEFORE IT IS ALLOWED TO ENERGIZE AND SUCCESSIVE STAGES CAN ENERGIZE IF THE SAT RISES ABOVE THE ACTIVE SUPPLY AIR COOLING SETPOINT FOR THE COOLING STAGE UP DELAY PERIOD (ADJ).
4. FOR COMPRESSORS TO STAGE DOWN MINIMUM RUN TIMES (ADJ.) MUST BE SATISFIED, AND THE SAT NEEDS TO BE BELOW THE ACTIVE SUPPLY AIR COOLING SETPOINT MINUS THE COOLING STAGE CONTROL FOR A PERIOD OF TIME EQUAL TO THE STAGE DOWN DELAY.
5. MECHANICAL COOLING IS DISABLED IF THE OUTDOOR AIR TEMPERATURE (OAT) FALLS 1° BELOW THE COOLING LOCKOUT SETPOINT AND WILL REMAIN DISABLED UNTIL THE OAT RISES 1° ABOVE THE COOLING LOCKOUT SETPOINT. IF THE OAT DISABLES MECHANICAL COOLING WHILE IT IS CURRENTLY OPERATING, MECHANICAL COOLING WILL STAGE OFF AS MINIMUM RUN TIMES AND STAGE DOWN DELAYS ARE SATISFIED.
6. IF THE ECONOMIZER IS ENABLED IT WILL FUNCTION AS THE FIRST STAGE OF COOLING.

H. HEATING MODE WITH MODULATING GAS HEAT:

1. HEATING IS ENABLED WHEN THE TEMPERATURE AT THE MODE ENABLE SENSOR FALLS ONE DEADBAND BELOW THE HEATING SETPOINT. HEATING IS DISABLED WHEN THE MODE ENABLE TEMPERATURE RISES ONE DEADBAND ABOVE THE HEATING SETPOINT.
2. IN THE HEATING MODE, AS THE SUPPLY AIR TEMPERATURE FALLS BELOW THE ACTIVE SUPPLY AIR HEATING SETPOINT (SEE SUPPLY AIR TEMPERATURE SETPOINT RESET SECTION FOR EXPLANATION), THE HEATING WILL BEGIN TO STAGE ON OR TO MODULATE. EACH STAGE MUST MEET ITS MINIMUM OFF TIME (ADJ.) BEFORE IT IS ALLOWED TO ENERGIZE AND SUCCESSIVE STAGES ARE SUBJECT TO A HEATING STAGE UP DELAY (ADJ).
3. HEATING STAGES WILL CONTINUE TO RUN UNTIL THE SUPPLY AIR TEMPERATURE RISES ABOVE THE ACTIVE SUPPLY AIR TEMPERATURE SETPOINT PLUS THE HEATING STAGE CONTROL WINDOW AT WHICH POINT THE HEATING WILL BEGIN TO STAGE OFF. EACH STAGE MUST MEET ITS MINIMUM RUN TIME (ADJ.) BEFORE IT IS ALLOWED TO STAGE OFF, AND SUCCESSIVE STAGES ARE SUBJECT TO A HEATING STAGE DOWN DELAY (ADJ.).
4. MECHANICAL HEATING IS DISABLED IF THE OUTDOOR AIR TEMPERATURE (OAT) RISES 1° ABOVE THE HEATING LOCKOUT SETPOINT AND WILL REMAIN DISABLED UNTIL THE OAT FALLS 1° BELOW THE HEATING LOCKOUT SETPOINT. IF THE OAT DISABLES MECHANICAL HEATING WHILE IT IS CURRENTLY OPERATING, MECHANICAL HEATING WILL STAGE OFF AS MINIMUM RUN TIMES AND STAGE DOWN DELAYS ARE SATISFIED.

I. HEAD PRESSURE CONTROL

9. CONTROLLER SHALL MONITOR HEAD PRESSURE TRANSDUCERS AND CONTROL MULTIPLE CONDENSER FANS TO MAINTAIN THE HEAD PRESSURE SETPOINT.
10. DIFFERENT HEAD PRESSURE SETPOINTS ARE USED FOR COOLING MODE AND DEHUMIDIFICATION MODE.

J. COIL TEMPERATURE RESET DURING DEHUMIDIFICATION

1. THE RETURN AIR HUMIDITY WILL BE USED TO RESET THE (SATURATION) TEMPERATURE SETPOINT DURING DEHUMIDIFICATION.
2. A USER ADJUSTABLE INDOOR HUMIDITY RANGE CAN BE CREATED TO PROPORTIONALLY RESET THE (SATURATION)TEMPERATURE SETPOINT WITHIN A USER ADJUSTABLE RANGE.

K. EARLY START: ON OCCUPIED DAYS THE SYSTEM WILL INITIATE EARLY START CYCLE, WITH 100% AIRFLOW, 1/2 HOUR BEFORE SCHEDULED OCCUPANCY. THE PROCESS WILL INITIATE SUPPLY FAN AND HEATING OR COOLING COIL VALVE (OPEN TO COIL) TO REACH OCCUPIED SETPOINT WITHOUT OUTDOOR AIR DAMPER OPEN. FREEZE PROTECTION WILL BE ACTIVE DURING THIS OPERATION.

L. SUPPLY AIR TEMPERATURE CONTROL: WHEN THE UNIT IS OPERATING IN OCCUPIED MODE, THE CONTROLLER SHALL MONITOR THE SUPPLY AIR TEMPERATURE AND SEQUENCE THE ECONOMIZER, MECHANICAL COOLING, AND HEATING TO MAINTAIN DISCHARGE AIR SETPOINT. THE BMS SHALL POLL ALL OF THE ZONE TERMINAL UNITS AND RESET THE DISCHARGE AIR TEMPERATURE BASED ON THE CRITICAL ZONE. THE MAXIMUM SUPPLY AIR TEMPERATURE RESET SETPOINT SHALL BE LIMITED TO 60F (ADJ.), THE MINIMUM RESET TEMPERATURE SHALL BE 52F (ADJ). THE BMS SHALL INCLUDE A USER OVERRIDE TO IGNORE THE RESET SEQUENCE AND SPECIFY A SPECIFIC DISCHARGE AIR TEMPERATURE SETPOINT. ONCE THE SUPPLY AIR TEMPERATURE RESET SEQUENCE HAS REACHED MAXIMUM SETPOINT INDIVIDUAL VAV TERMINAL REHEAT COILS SHALL MODULATE TO PREVENT OVERCOOLING OF EACH SPACE.

M. SUPPLY AIR DUCT STATIC PRESSURE CONTROL: THE CONTROLLER SHALL MEASURE DUCT STATIC PRESSURE AND SHALL MODULATE THE SUPPLY FAN VFD SPEED TO MAINTAIN A DUCT STATIC PRESSURE SETPOINT OF 1.5IN H2O (ADJ.). THE SUPPLY FAN VFD SPEED SHALL NOT DROP BELOW 30% (ADJ.) OF BALANCED 100% AIRFLOW.

N. HIGH STATIC SHUTDOWN:THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING A HIGH STATIC SHUTDOWN SIGNAL. ALARM SHALL BE RESET FROM FRONT END.

O. LOW STATIC SHUTDOWN:THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING A HIGH STATIC SHUTDOWN SIGNAL. ALARM SHALL BE RESET FROM FRONT END.

P. DIRTY FILTER STATUS: A DIFFERENTIAL PRESSURE SWITCH SHALL BE INSTALLED TO PROVIDE A 24 VAC WET CONTACT CLOSURE TO INDICATE A DIRTY FILTER STATUS. A DIRTY FILTER ALARM IS THEN GENERATED.

Q. EMERGENCY SHUTDOWN: A 24 VAC WET CONTACT SHALL BE USED WHEN A SHUTDOWN CONDITION OCCURS. IF THIS CONTACT OPENS, IT WILL INITIATE IMMEDIATE SHUTDOWN OF THE UNIT AND WILL GENERATE AN ALARM CONDITION.

R. DUCT SMOKE DETECTION: DUCT SMOKE DETECTION SHALL BE INTEGRATED TO THE NEW CONTROLLER AS FOLLOWS: SMOKE DETECTOR CONTROL BY FIRE ALARM RELAY BY EC. ATC TO WIRE TO RELAY FOR SHUTDOWN AND FRONT END ALARM.

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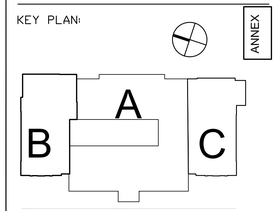

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	12/08/25	OUT TO BID
	12/03/25	DCA Submission

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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: TMW
Checked By: RLD

Sheet Name:
MECH CONTROL DIAGRAMS

Sheet No:
M-503
Sheet 0 of 000

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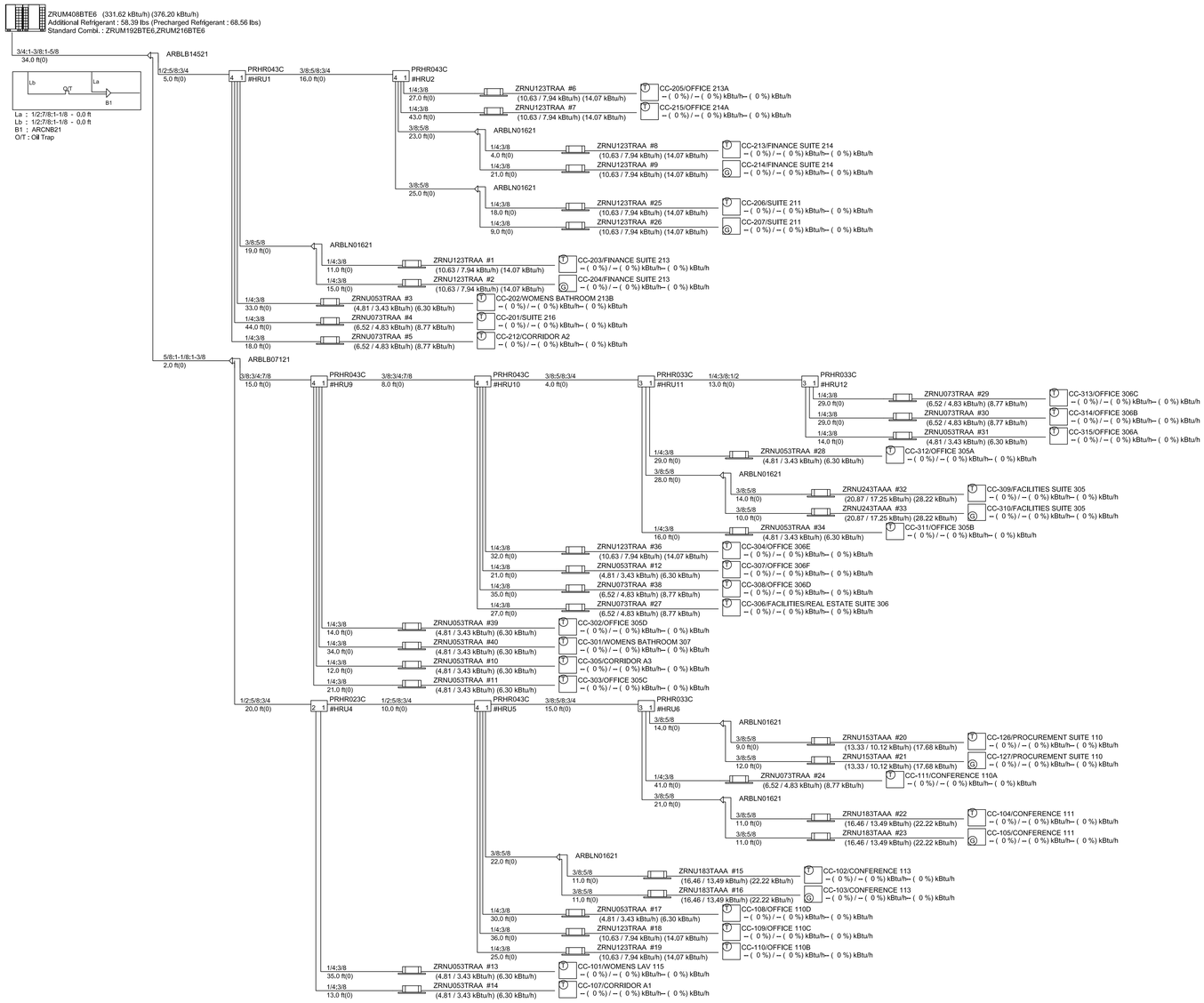
GENERAL NOTES:

1. ALL INDOOR HEAT RECOVERY UNITS ARE TO COME EQUIPPED WITH R32 REFRIGERANT AUTOMATIC SHUTOFF VALVES THAT ARE TO ACTIVATE IF THE VRF SYSTEM SENSES A LEAK IN THE ASSOCIATED ZONE.



1 OHRU-1 PIPING TREE

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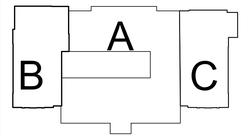

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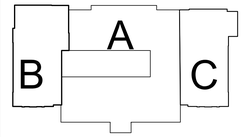

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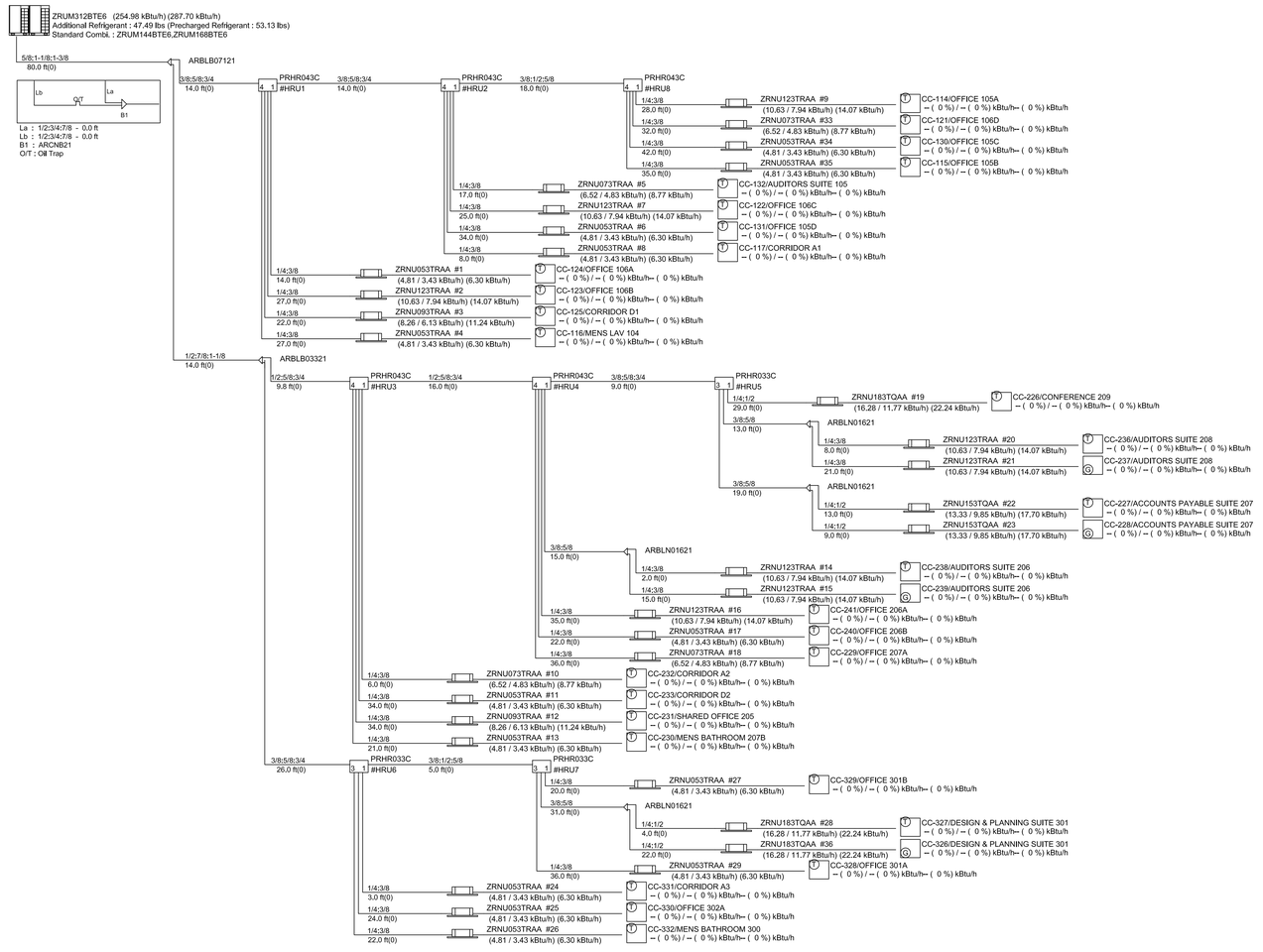

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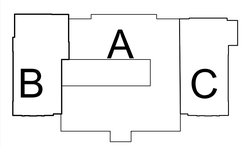

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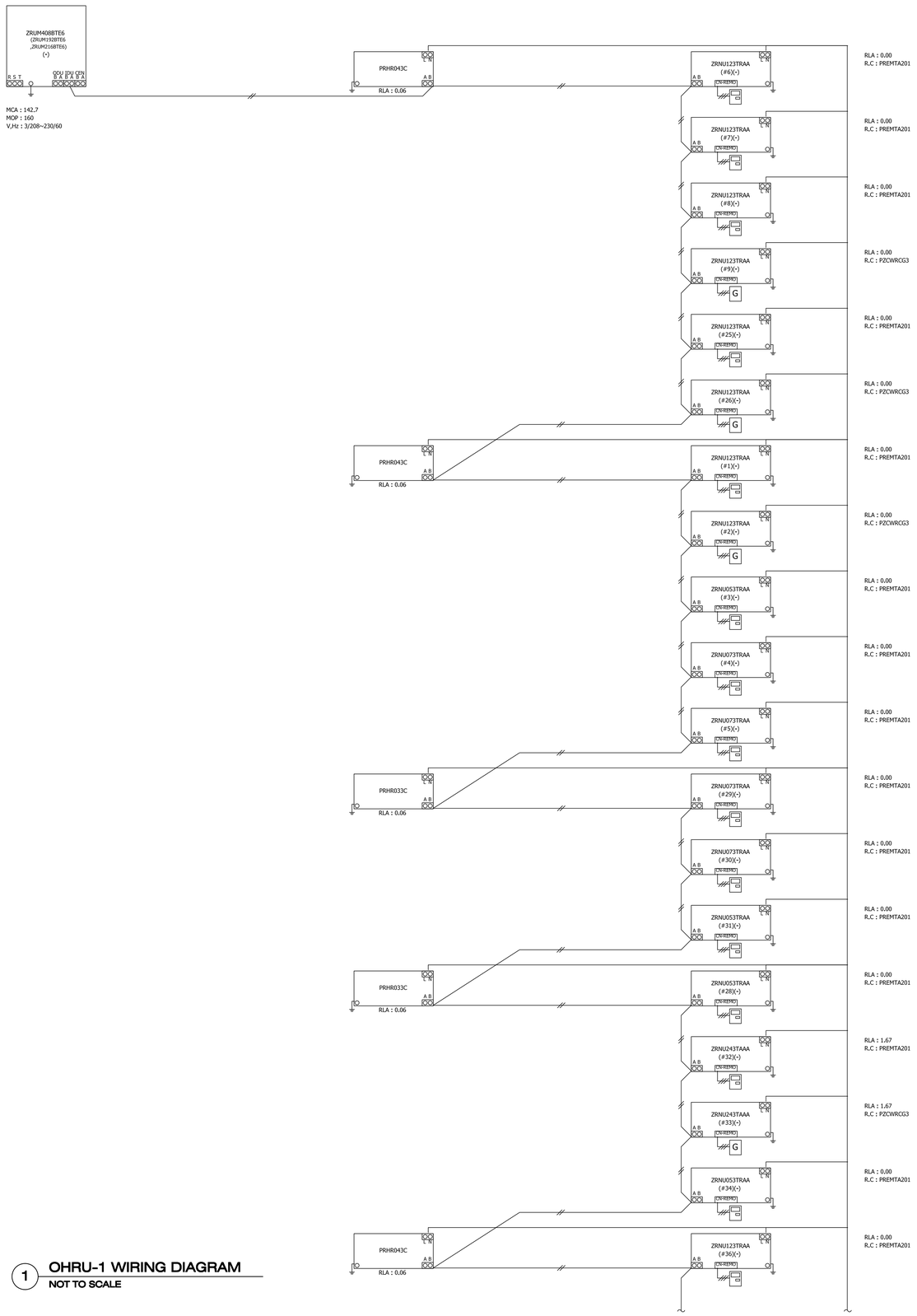
Note :
Power wiring, breaker size, and disconnects should follow local code and NEC.
Multi-frame outdoor units require a separate power connection for each frame.
Refer to the most up-to-date submittal sheets for applicable electrical data.
.

Power line(Outdoor unit)
Power line(Indoor unit / HR unit)
Communication line (ODU-IDU / ODU-ODU) : Twisted, Stranded and shielded AWG 18 x 2C
Communication line (ODU-CEN) : Twisted, Stranded and shielded AWG 18 x 2C
Communication line(Remote controller) : Twisted and stranded AWG 22 x 3C
Communication line(EEV lead wire)
Ground shield wire at ODU only
Note : Polarity matters: Always connect 'A' to 'A' and 'B' to 'B'



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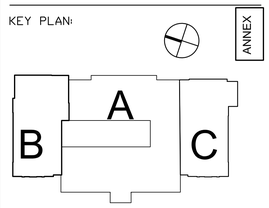

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Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: TMW
Checked By: RLD

Sheet Name:
VRF WIRING DIAGRAMS

Sheet No:
M-507
Sheet 0 of 000

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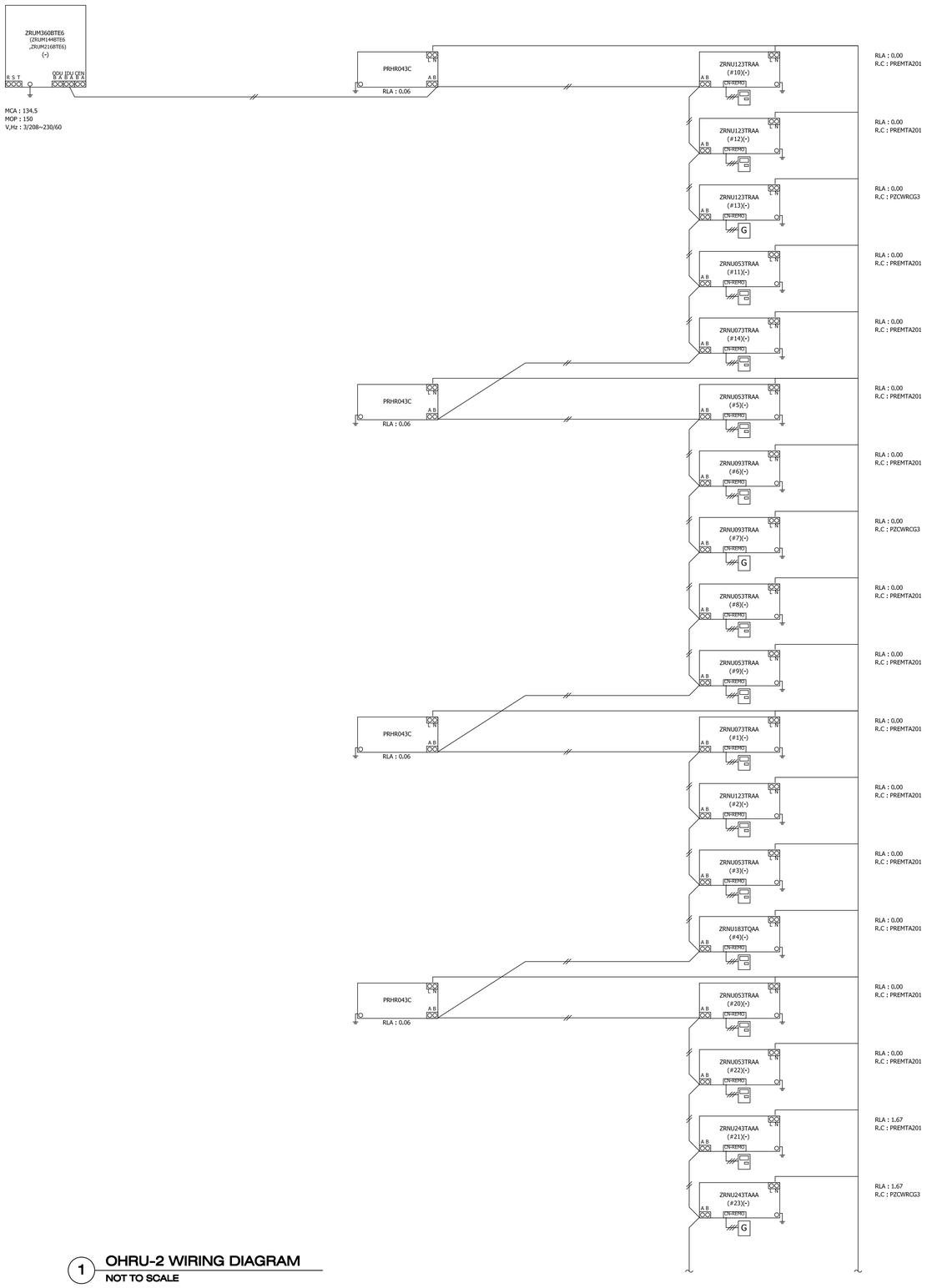
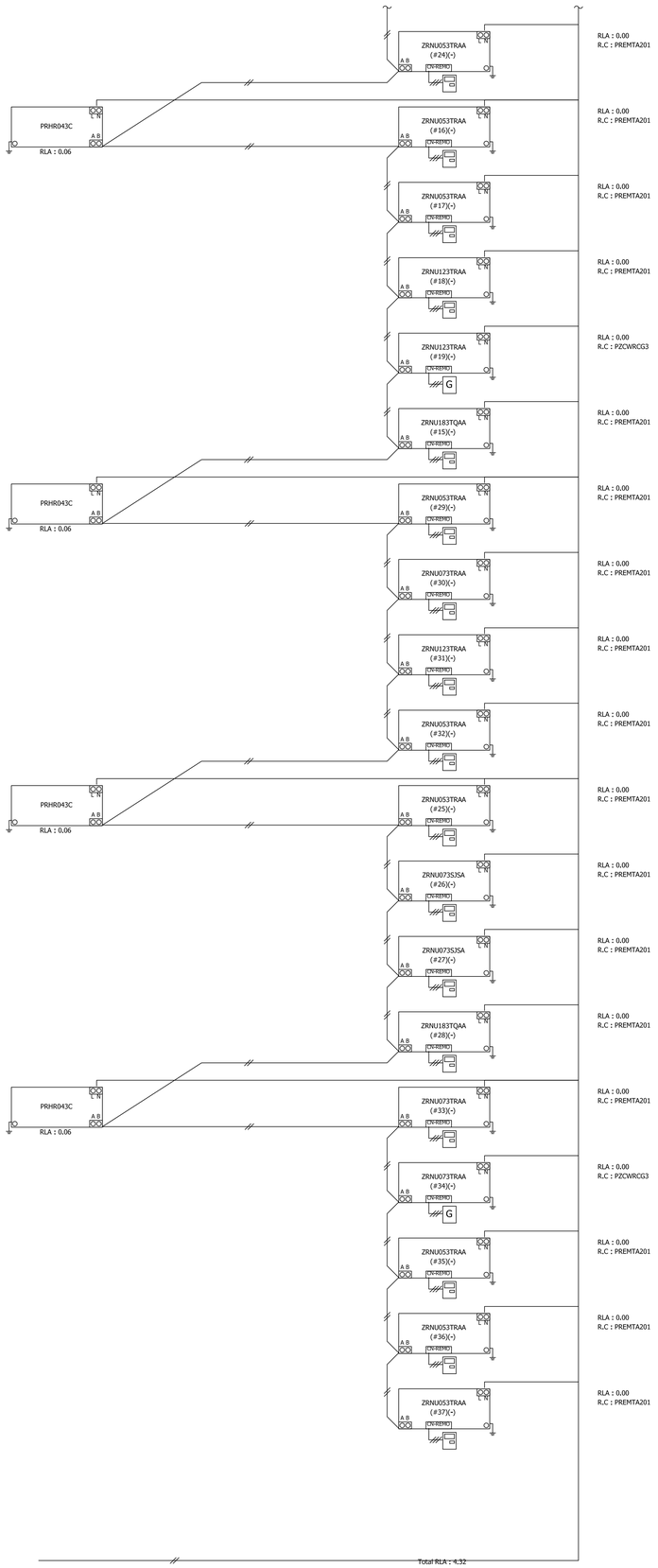
Note :
Power wiring, breaker size, and disconnects should follow local code and NEC.
Multi-frame outdoor units require a separate power connection for each frame.
Refer to the most up-to-date submittal sheets for applicable electrical data.
.

Power line(Outdoor unit)
Power line(Indoor unit / HR unit)
Communication line (ODU-IDU / ODU-ODU) : Twisted, Stranded and shielded AWG 18 x 2C
Communication line (ODU-CEN) : Twisted, Stranded and shielded AWG 18 x 2C
Communication line(Remote controller) : Twisted and stranded AWG 22 x 3C
Communication line(EEV lead wire)
Ground shield wire at ODU only
Note : Polarity matters; Always connect 'A' to 'A' and 'B' to 'B'





1 OHRU-2 WIRING DIAGRAM
NOT TO SCALE

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M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
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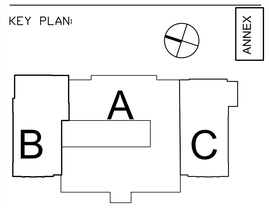
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



No.	Date	Description
	12/08/25	OUT TO BID
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Richard D. Alderliso , AIA
NJ RA AI 15023, NY RA 027416, PA RA 405474

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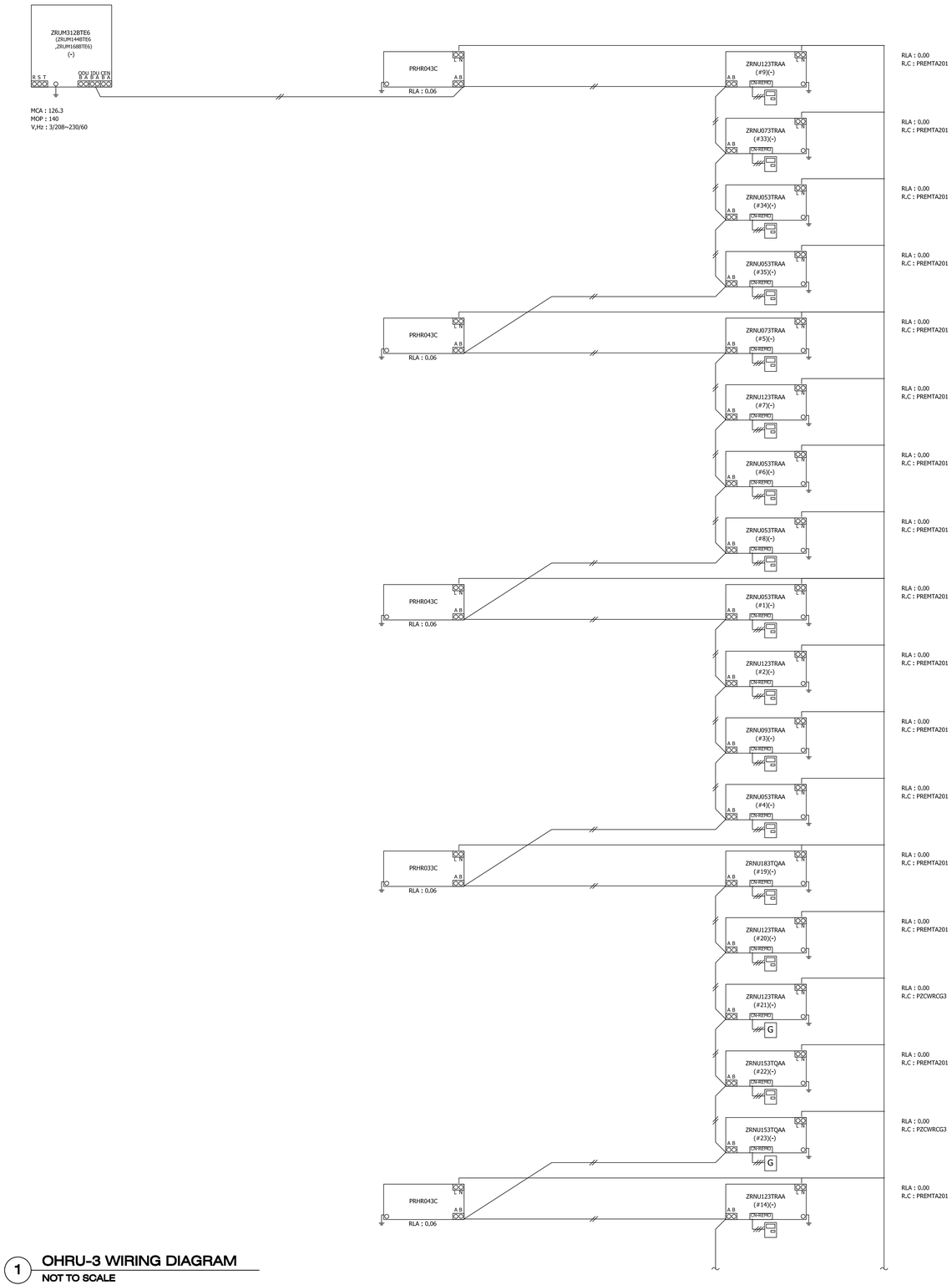

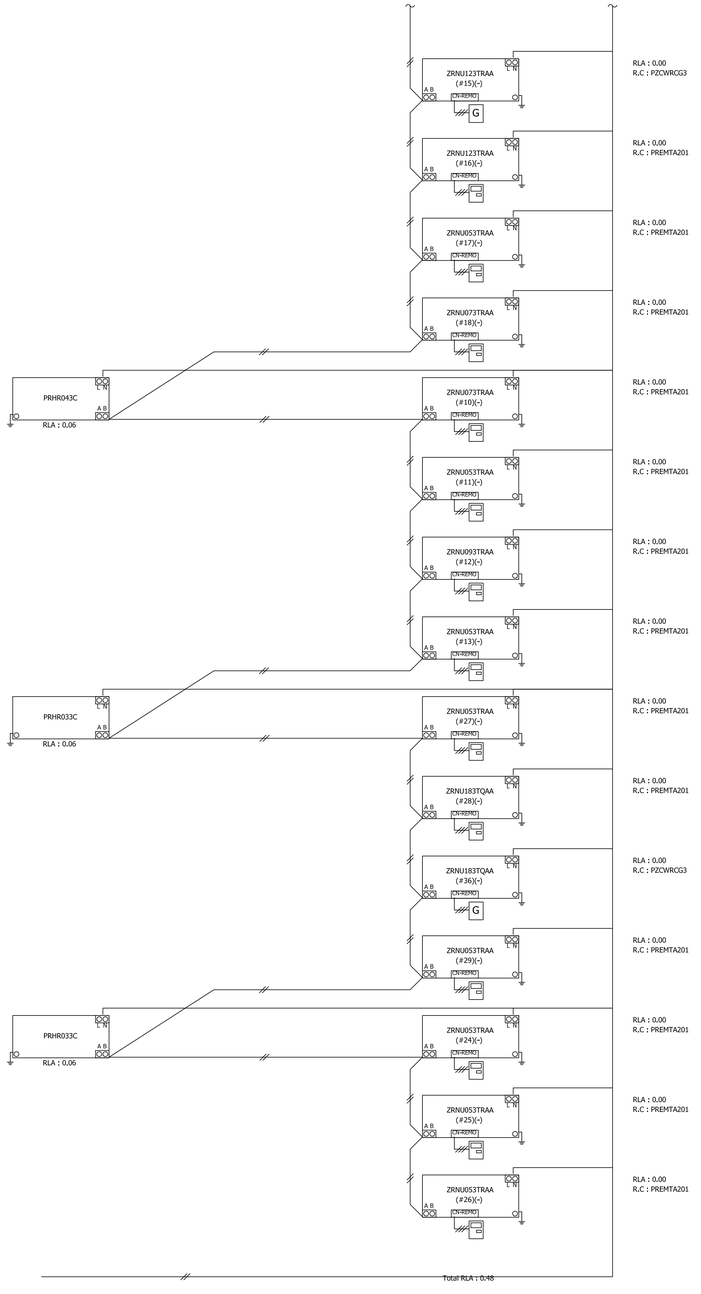

1 OHRU-3 WIRING DIAGRAM
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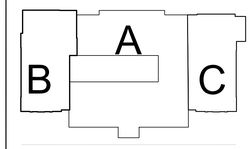

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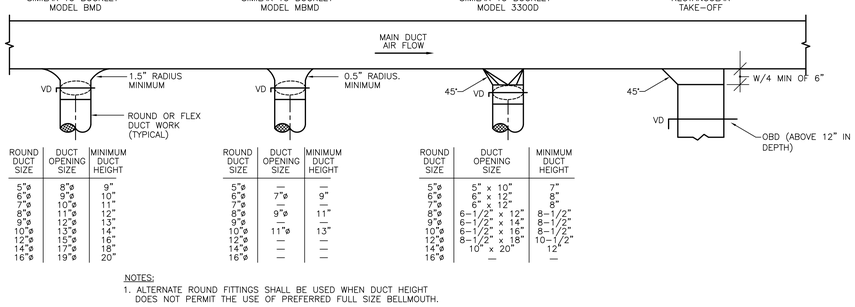


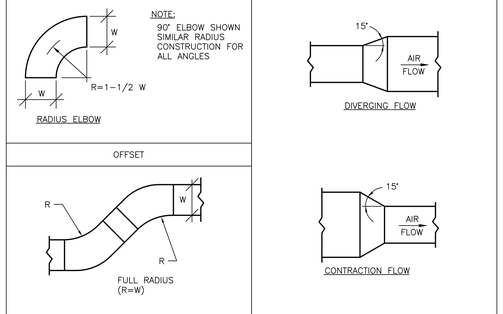
ROUND DUCT SIZE	DUCT OPENING SIZE	MINIMUM DUCT HEIGHT
5"ø	8"ø	9"
6"ø	9"ø	10"
7"ø	10"ø	11"
8"ø	11"ø	12"
9"ø	12"ø	13"
10"ø	13"ø	14"
12"ø	15"ø	16"
14"ø	17"ø	18"
16"ø	19"ø	20"

ROUND DUCT SIZE	DUCT OPENING SIZE	MINIMUM DUCT HEIGHT
5"ø	—	—
6"ø	7"ø	9"
7"ø	—	—
8"ø	9"ø	11"
9"ø	—	—
10"ø	11"ø	13"
12"ø	—	—
14"ø	—	—
16"ø	—	—

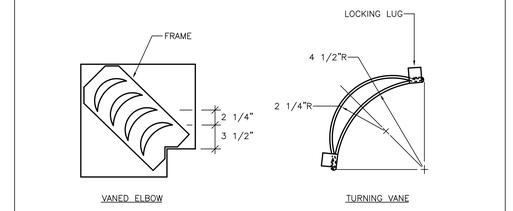
ROUND DUCT SIZE	DUCT OPENING SIZE	MINIMUM DUCT HEIGHT
5"ø	5" x 10"	7"
6"ø	6" x 12"	8"
7"ø	6" x 12"	8"
8"ø	6-1/2" x 12"	8-1/2"
9"ø	6-1/2" x 14"	8-1/2"
10"ø	6-1/2" x 16"	8-1/2"
12"ø	8-1/2" x 18"	10-1/2"
14"ø	10" x 20"	12"
16"ø	—	—

NOTES:
1. ALTERNATE ROUND FITTINGS SHALL BE USED WHEN DUCT HEIGHT DOES NOT PERMIT THE USE OF PREFERRED FULL SIZE BELLMOUTH.

1 DUCT TAKEOFF DETAIL — NOT TO SCALE

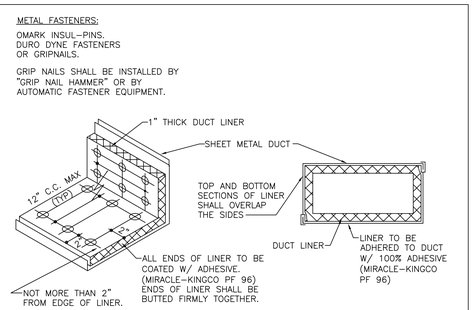


2 RECTANGULAR TRANSITIONS, OFFSETS AND ELBOWS DETAIL — NOT TO SCALE

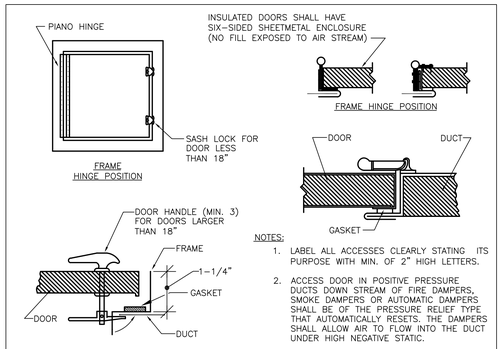


NOTES:
1. LOCKING LUGS INTEGRAL WITH VANE.
2. MAXIMUM UNSUPPORTED VANE LENGTH 48"
3. FRAMES – BOLTED OR RIVETED TO ELBOW
4. VANES AND FRAMES – SAME GAUGE AS ELBOW

3 DOUBLE THICKNESS TURNING VANES FOR SQUARE ELBOW DETAIL — NOT TO SCALE

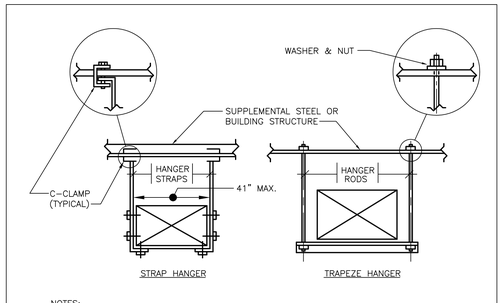


4 DUCT LINER INSTALLATION DETAIL — NOT TO SCALE



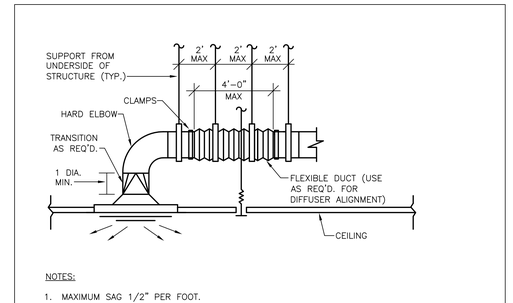
NOTES:
1. LABEL ALL ACCESSES CLEARLY STATING ITS PURPOSE WITH MIN. OF 2" HIGH LETTERS.
2. ACCESS DOOR IN POSITIVE PRESSURE DUCTS DOWN STREAM OF FIRE DAMPERS, SMOKE DAMPERS OR AUTOMATIC DAMPERS SHALL BE OF THE PRESSURE RELIEF TYPE THAT AUTOMATICALLY RESETS. THE DAMPERS SHALL ALLOW AIR TO FLOW INTO THE DUCT UNDER HIGH NEGATIVE STATIC.

5 DUCT ACCESS DOOR DETAIL — NOT TO SCALE



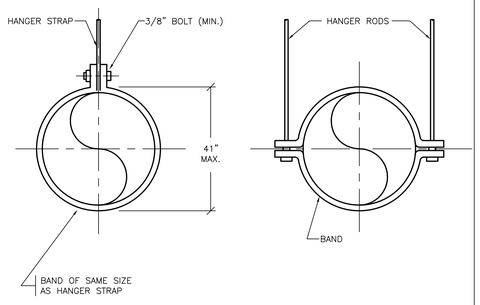
NOTES:
1. NO POP RIVETS ALLOWED, USE SELF-TAPPING SHEETMETAL SCREWS ONLY.

6 DUCT HANGER DETAIL — NOT TO SCALE

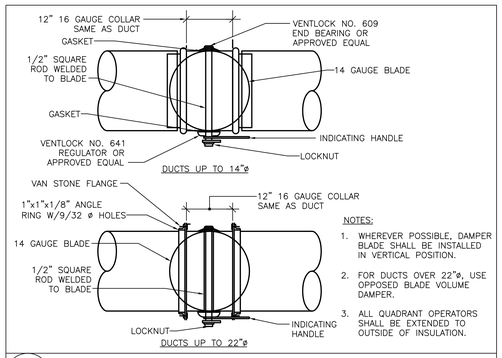


NOTES:
1. MAXIMUM SAG 1/2" PER FOOT.
2. FLEXIBLE DUCT IS ACCEPTABLE ONLY ON SUPPLY DIFFUSERS.

7 SUPPLY DIFFUSER CONNECTION DETAIL — NOT TO SCALE

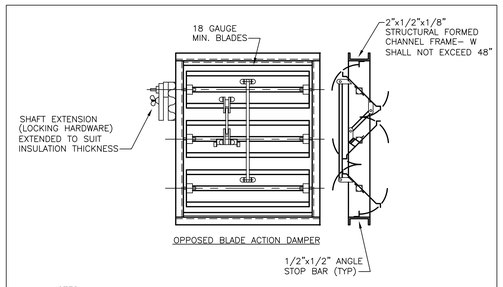


8 ROUND DUCT HANGER DETAIL — NOT TO SCALE



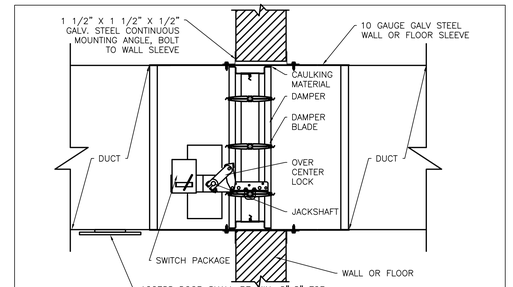
NOTES:
1. WHEREVER POSSIBLE, DAMPER BLADE SHALL BE INSTALLED IN VERTICAL POSITION.
2. FOR DUCTS OVER 22"ø, USE OPPOSED BLADE VOLUME DAMPER.
3. ALL QUADRANT OPERATORS SHALL BE EXTENDED TO OUTSIDE OF INSULATION.

9 ROUND VOLUME DAMPER DETAIL — NOT TO SCALE



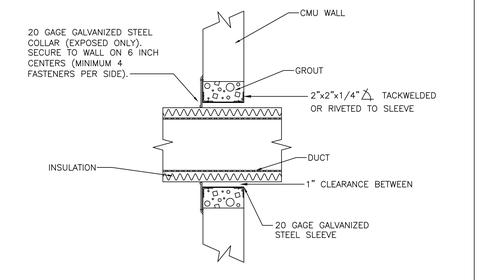
NOTES:
1. FOR RECTANGULAR DUCTS OVER 12" HIGH, PROVIDE OPPOSED BLADE DAMPER.
2. ALL BRANCH DUCTS (SUPPLY, RETURN & EXHAUST) SHALL HAVE VOLUME DAMPERS, INCLUDING RUNOUTS TO DIFFUSERS.

10 OPPOSED BLADE VOLUME DAMPER DETAIL — NOT TO SCALE

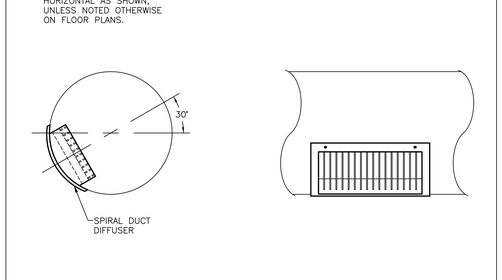


NOTE: FIRE DAMPER INSTALLATION TO MEET "UL" REQUIREMENTS.

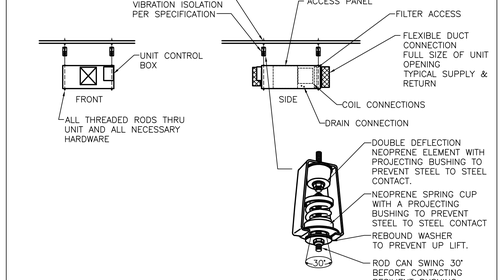
11 COMBINATION SMOKE/ FIRE DAMPER DETAILS — NOT TO SCALE



12 DUCT PENETRATION THROUGH WALL DETAIL (NOT APPLICABLE TO FIRE-RATED WALLS) — NOT TO SCALE



13 ROUND DUCT GRILLE DETAIL — NOT TO SCALE



14 SPLIT AHU DETAIL — NOT TO SCALE

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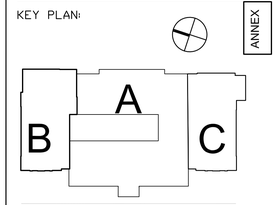

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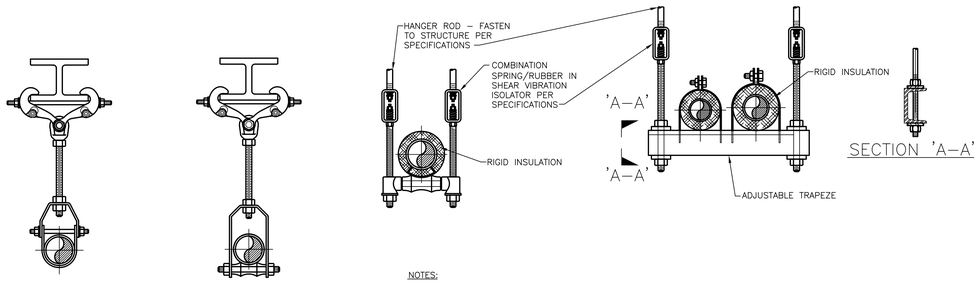
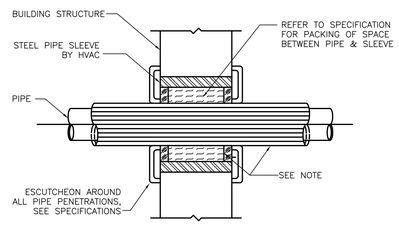


NOTES:

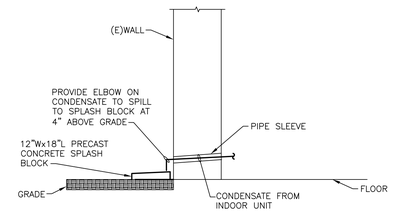
1. SIZE HANGER CLAMP TO ADEQUATELY SUPPORT LOAD.
2. IF USING INSULATED PIPE, SIZE HANGER PROPERLY AND USE INSULATION SHIELDS FOR COLD LINES AND PROTECTION SADDLES FOR HOT LINES.

1 PIPE HANGER AND PIPE ROLLER DETAIL — NOT TO SCALE

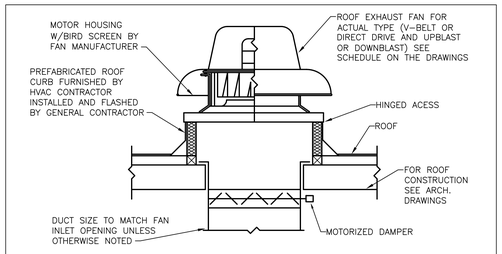


NOTE: PIPE SLEEVES SHALL BE LARGE ENOUGH TO ALLOW PIPE & INSULATION WHERE PIPES ARE COVERED. THEY SHALL ALSO ALLOW FOR EXPANSION & CONTRACTION.

2 PIPE SLEEVE THROUGH WALL AND SLAB DETAIL — NOT TO SCALE



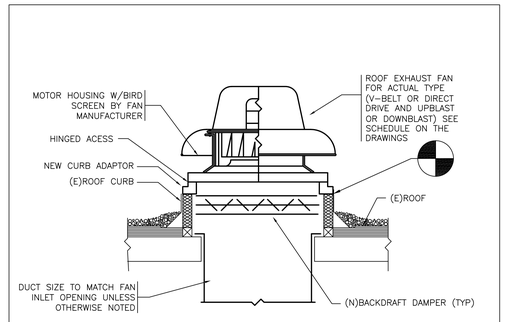
3 CONDENSATE SPILL TO GRADE DETAIL — NOT TO SCALE



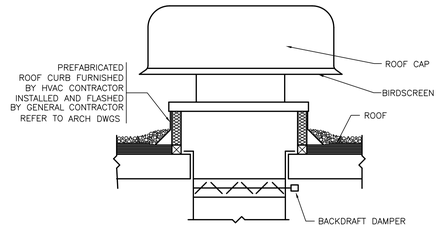
NOTE:

1. FOR HINGED FAN CURB REQUIREMENTS (WHERE REQUIRED), REFER TO SCHEDULES ON THE DRAWINGS AND/OR SPECIFICATION.

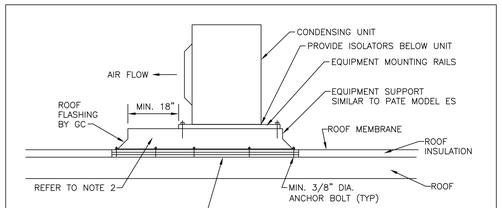
4 ROOF EXHAUST FAN DETAIL (MUSHROOM TYPE) — NOT TO SCALE



5 ROOF EXHAUST FAN DETAIL WITH CURB ADAPTER — NOT TO SCALE



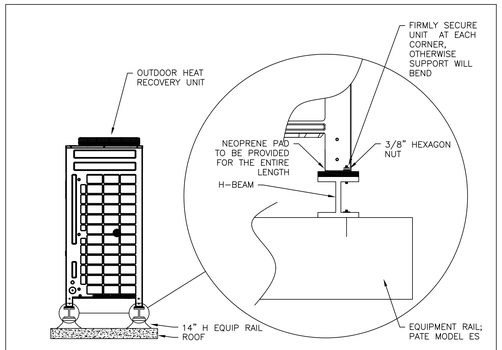
6 ROOF CAP DETAIL — NOT TO SCALE



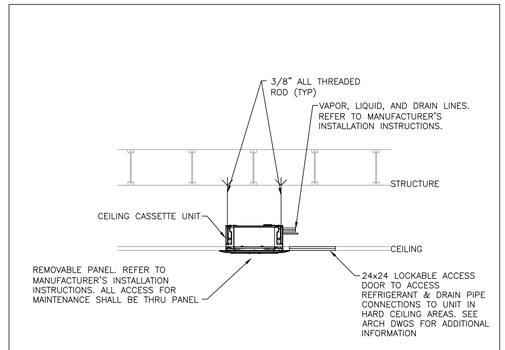
NOTES:

1. MECHANICAL CONTRACTOR TO PROVIDE AND SET EQUIPMENT SUPPORTS. GENERAL CONTRACTOR TO INSTALL SUPPORTS.
2. EQUIPMENT RAIL ROOF SUPPORTS SHALL EXTEND MINIMUM 18" BEYOND END OF UNIT ON ONE SIDE FOR MOUNTING AND INSTALLATION OF UNISTRUT STRUCTURE FOR ELECTRICAL EQUIPMENT.

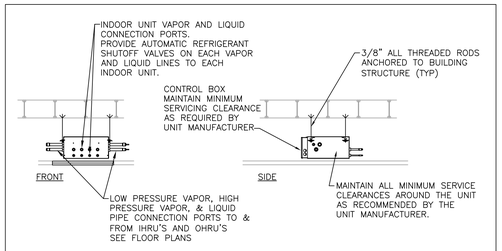
7 ROOF MOUNTED CONDENSING UNIT SUPPORT DETAIL — NOT TO SCALE



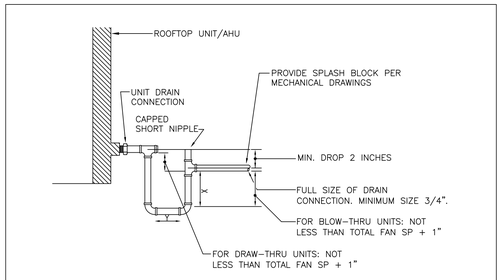
8 ROOF MOUNTED OUTDOOR RECOVERY UNIT SUPPORT DETAIL — NOT TO SCALE



9 CEILING CASSETTE UNIT INSTALLATION DETAIL — NOT TO SCALE

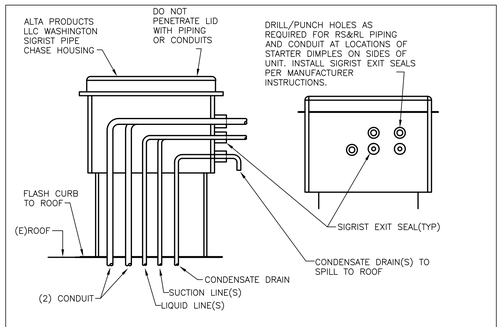


10 INDOOR HEAT RECOVERY UNIT HANGING DETAIL (4 PORT UNIT SHOWN BUT TYPICAL FOR ALL IHRU'S) — NOT TO SCALE

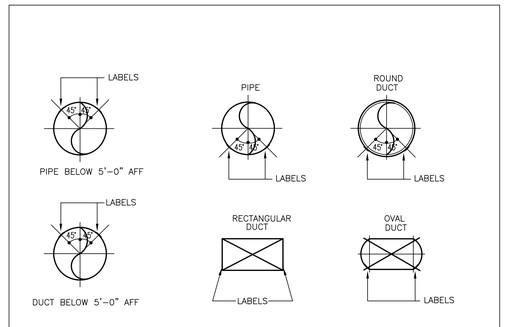


NOTE: 2X+Y SHALL EQUAL TOTAL FAN SP+2" (MINIMUM)

11 TYPICAL HVAC UNIT CASING DRAIN DETAIL — NOT TO SCALE



12 RS & RL ROOF CURB DETAIL — NOT TO SCALE



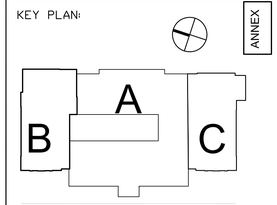
13 DUCT AND PIPE IDENTIFICATION LABELING DETAIL — NOT TO SCALE

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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	12/03/25	DCA Submission

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Richard D. Alderiso , AIA
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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: TMW
Checked By: RLD

Sheet Name:
MECHANICAL DETAILS

Sheet No:
M-601
Sheet 0 of 000

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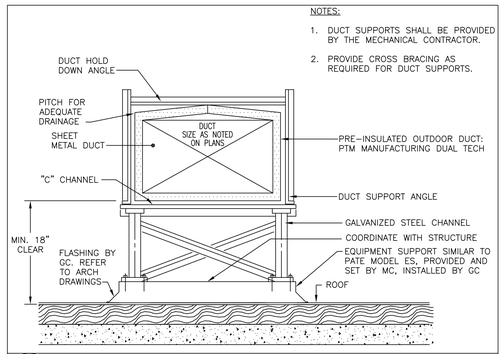
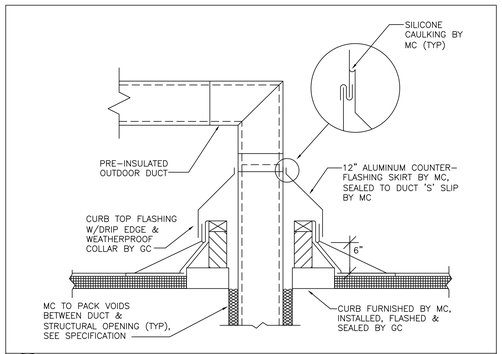
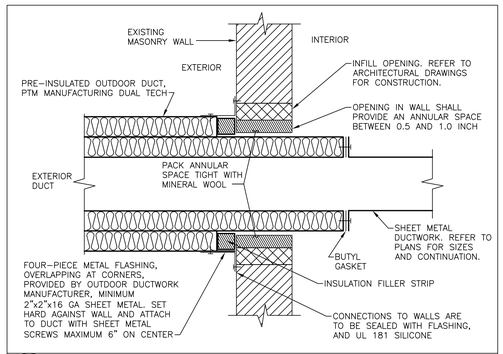


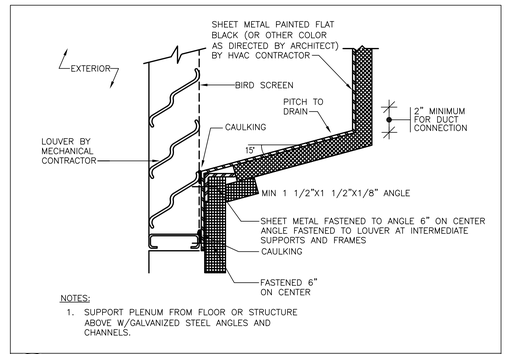
1 ROOF MOUNTED DUCT SUPPORT DETAIL NOT TO SCALE



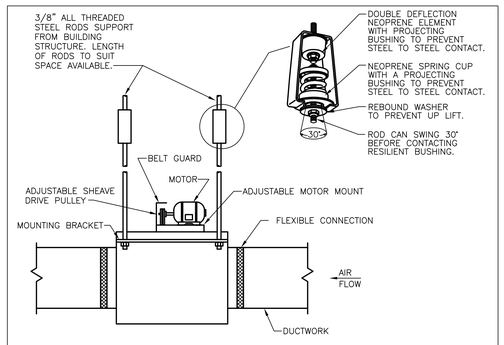
2 DUCTWORK ROOF PENETRATION DETAIL NOT TO SCALE



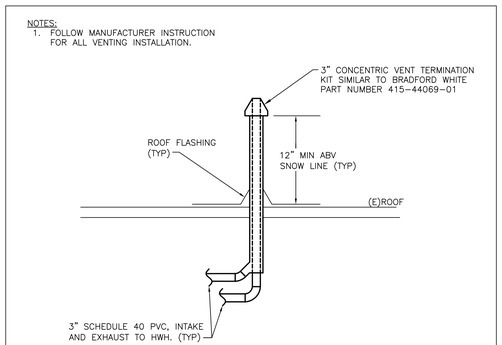
3 PRE-INSULATED OUTDOOR DUCTWORK WALL PENETRATION DETAIL NOT TO SCALE



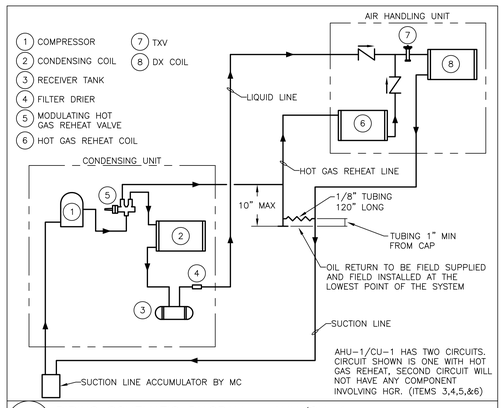
4 VERTICAL LOUVER CONNECTION DETAIL NOT TO SCALE



5 CENTRIFUGAL INLINE FAN DETAIL NOT TO SCALE



6 HWH CONCENTRIC VENT TERMINATION DETAIL NOT TO SCALE



7 PIPING SCHEMATIC DIAGRAM – AHU/CU-1 AC WITH MODULATING HOT GAS REHEAT NOT TO SCALE

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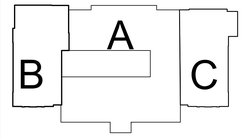

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ABBREVIATIONS

1P	ONE POLE
2P	TWO POLE
3P	THREE POLE
ø	PHASE
A	AMPERE
A/V	AUDIO/VISUAL
A/C	AIR CONDITIONING
ABV	ABOVE
ACT	ACOUSTICAL CEILING TILE
AF	AMP FRAME
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AL	ALUMINUM
AT	AMP TRIP
ATC	AUTOMATIC TEMPERATURE CONTROL
ATS	AUTOMATIC TRANSFER SWITCH
BET	BUILDING ENTRANCE TERMINAL
BFC	BELOW FINISHED CEILING
BFF	BELOW FINISHED FLOOR
BTC	BRANCH TO CIRCUIT
C	CONDUIT
C/B	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CM	CONSTRUCTION MANAGER
CMH	COMMUNICATIONS MANHOLE
CR	CONVENIENCE RECEPTACLE
CT	CURRENT TRANSFORMER
DFA	DOWN FROM ABOVE
DR	DUPLEX RECEPTACLE
DWG	DRAWING
DVR	DIGITAL VIDEO RECORDER
(E)	EXISTING
EC	ELECTRICAL CONTRACTOR
EMH	ELECTRICAL POWER MANHOLE
EOF	ELECTRICAL OUT OF FLOOR
EOW	ELECTRICAL OUT OF WALL
ERMS	ENERGY REDUCTION MAINTENANCE SWITCH
ESM	ENGINE START MONITORING MODULE
ETR	EXISTING TO REMAIN
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPS
FOH	FRONT OF HOUSE
FPC	FIRE PROTECTION CONTRACTOR
FU	FUSE
GC	GENERAL CONTRACTOR
GFI	GROUND FAULT INTERRUPTER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
GP	GENERAL PURPOSE
HP	HORSEPOWER
IDF	INTERMEDIATE DISTRIBUTION FRAME
IG	ISOLATED GROUND
IR	INFRARED
JB	JUNCTION BOX
KEC	KITCHEN EQUIPMENT CONTRACTOR
kVA	KILOVOLT AMPERE
KW	KILOWATT
LLC	WIRE TO LOCAL LIGHTING CIRCUIT
LSI	LONG TIME, SHORT TIME AND INSTANTANEOUS PROTECTION
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MDF	MAIN DISTRIBUTION FRAME
MDP	MAIN DISTRIBUTION PANEL
MH	MANHOLE
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MTS	MANUAL TRANSFER SWITCH
(N)	NEW
NE	WIRED ON NORMAL EMERGENCY CIRCUIT
NVR	NETWORK VIDEO RECORDER
NIC	NOT IN CONTRACT
OCC	OCCUPANCY
OOF	OUT OF FLOOR
OOW	OUT OF WALL
PA	PUBLIC ADDRESS
PC	PLUMBING CONTRACTOR
(RAR)	REMOVE AND REPLACE
(REL)	RELOCATE/RELOCATED
S	SINGLE POLE SWITCH
SCH	SCHEDULE
SPD	SURGE PROTECTIVE DEVICE
SR	SIMPLEX RECEPTACLE
ST	SHUNT TRIP
S_3	THREE WAY SWITCH
S_K	KEY OPERATED SWITCH
(TYP)	TYPICAL
V	VOLT
W	WATT
WG	WIRE GUARD
WP	WEATHERPROOF
WWF	WELDED WIRE FABRIC
GFCI	GROUND FAULT CIRCUIT INTERRUPTER

SYMBOL LEGEND

- MOTION DETECTOR, DEMO ONLY.
- BELL FOR CLASS SCHEDULE, DEMO ONLY
- PA SYSTEM CALL BUTTON, DEMO ONLY
- WALL MOUNTED CLOCK AND PA SYSTEM SPEAKER WITH COMBINED BACKBOX, DEMO ONLY.
- ANALOG CLOCK, DEMO ONLY
- PA SYSTEM SPEAKER, DEMO ONLY
- DENOTES LIMIT OF DEMOLITION
- DENOTES CONNECT TO EXISTING
- EXISTING WORK
- NEW WORK
- DEMOLITION WORK
- AUTOMATIC TRANSFER SWITCH (ATS)
- DISCONNECT
- FUSED DISCONNECT
- STARTER
- COMBINATION STARTER/DISCONNECT
- METER
- CURRENT TRANSFORMER
- MOTOR (NUMBER DESIGNATES HORSEPOWER)
- TRANSFORMER

LIST OF DRAWINGS

E-001	ELECTRICAL COVER SHEET
E-002	ELECTRICAL LEGEND
ED-100A	LIGHTING DEMO BSMNT
ED-100B	LIGHTING DEMO BSMNT
ED-101A	LIGHTING DEMO 1ST FLR
ED-101B	LIGHTING DEMO 1ST FLR
ED-102A	LIGHTING DEMO 2ND FLR
ED-102B	LIGHTING DEMO 2ND FLR
ED-103A	LIGHTING DEMO 3RD FLR
ED-200A	ELEC DEMO BASEMENT
ED-200B	ELEC DEMO BASEMENT
ED-201A	ELEC DEMO 1ST FLR
ED-201B	ELEC DEMO 1ST FLR
ED-202A	ELEC DEMO 2ND FLR
ED-202B	ELEC DEMO 2ND FLR
ED-203A	ELEC DEMO 3RD FLR
ED-608	DEMO 1-LINE DIAGRAM
ED-609	DEMO 1-LINE DIAGRAM
ES-001	ELECTRICAL SITE PLAN
E-100A	LIGHTING BASEMENT FLR
E-100B	LIGHTING BASEMENT FLR
E-101A	LIGHTING 1ST FLR
E-101B	LIGHTING 1ST FLR
E-102A	LIGHTING 2ND FLR
E-102B	LIGHTING 2ND FLR
E-103A	LIGHTING 3RD FLR
E-200A	POWER BASEMENT FLR
E-200B	POWER BASEMENT FLR
E-201A	POWER 1ST FLR
E-201B	POWER 1ST FLR
E-202A	POWER 2ND FLR
E-202B	POWER 2ND FLR
E-203A	POWER 3RD FLR
E-300A	FIRE ALARM BASEMENT
E-300B	FIRE ALARM BASEMENT
E-301A	FIRE ALARM 1ST FLR
E-301B	FIRE ALARM 1ST FLR
E-302A	FIRE ALARM 2ND FLR
E-302B	FIRE ALARM 2ND FLR
E-303A	FIRE ALARM 3RD FLR
E-304	FA RISER DIAGRAM
E-400A	TELECOM/SEC/AV BSMNT
E-400B	TELECOM/SEC/AV BSMNT
E-401A	TELECOM/SEC/AV 1ST FL
E-401B	TELECOM/SEC/AV 1ST FL
E-402A	TELECOM/SEC/AV 2ND FL
E-402B	TELECOM/SEC/AV 2ND FL
E-403A	TELECOM/SEC/AV 3RD FL
E-500A	EQUIPMENT BASEMENT FL
E-500B	EQUIPMENT BASEMENT FL
E-501A	EQUIPMENT 1ST FLR
E-501B	EQUIPMENT 1ST FLR
E-502A	EQUIPMENT 2ND FLR
E-502B	EQUIPMENT 2ND FLR
E-503A	EQUIPMENT 3RD FLR
E-504A	EQUIPMENT ROOF
E-504B	EQUIPMENT ROOF
E-600	LIGHTING SCHEDULES
E-601	WIRING SCHEDULES
E-602	WIRING SCHEDULES
E-603	PANEL SCHEDULES
E-604	PANEL SCHEDULES
E-605	PANEL SCHEDULES
E-606	PANEL SCHEDULES
E-607	PANEL SCHEDULES
E-608	PARTIAL 1-LINE DIAGRAM
E-609	PARTIAL 1-LINE DIAGRAM
E-701	ELECTRICAL DETAILS
E-702	ELECTRICAL DETAILS
E-703	ELECTRICAL DETAILS

GENERAL NOTES

1. FOR LOCATIONS OF ALL MECHANICAL, PLUMBING, AND FIRE PROTECTION EQUIPMENT REFER TO THE RESPECTIVE MECHANICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS. REFER TO POWER WIRING SCHEDULE FOR MECHANICAL AND PLUMBING EQUIPMENT.
2. ALL DEVICE LOCATIONS SUCH AS RECEPTACLE, DATA JACK, TV JACK, AND FLOOR OUTLETS, ETC., ARE APPROXIMATE. FINAL LOCATIONS AND MOUNTING HEIGHTS SHALL BE FIELD LOCATED BY THE ARCHITECT. THE CONTRACTOR SHALL INSTALL ALL DEVICES AT LOCATIONS AS DIRECTED BY THE ARCHITECT WITHOUT ADDITIONAL COMPENSATION.
3. ALL BRANCH WIRING SHALL BE MINIMUM 3/4"C-2#12+1#12GND.
4. ALL LIGHTING WIRING FOR LED DIMMABLE LIGHTING BRANCH CIRCUITS SHALL BE 2#12+1#12GND +2#16 0-10V IN 3/4"C (ALL 600V RATED WIRING) OR MC-PCS CABLE WHERE ALLOWABLE IN THE SPECIFICATION.
5. EXACT LOCATIONS OF ALL ELECTRICAL EQUIPMENT SHALL BE COORDINATED IN THE FIELD WITH MECHANICAL, FIRE PROTECTION AND PLUMBING CONTRACTORS. ALL CLEARANCES AS REQUIRED BY ARTICLE 110 OF THE NEC SHALL BE MAINTAINED.
6. RECEPTACLES, DATA JACKS AND OTHER FLUSH MOUNTED DEVICES MOUNTED ON OPPOSITE SIDE OF SAME WALL MUST BE STAGGERED IN SEPARATE JOISTS FOR ACOUSTICS. USE OF BACK TO BACK BOXES IS NOT ACCEPTABLE.
7. DEVICES LOCATED IN FIRE RATED WALLS THAT ARE GREATER THAN 16 SQ/IN SHALL BE PROVIDED WITH SPECSEAL SSP PUTTY PADS OR EQUAL ON EACH BACKBOX.
8. COORDINATE SPEAKER, OCCUPANCY SENSOR, AND FIRE ALARM DEVICE LOCATIONS WITH LIGHTING FIXTURES, SPRINKLERS, AIR DIFFUSERS, AND OTHER CEILING MOUNTED EQUIPMENT. COORDINATE WITH THE REFLECTED CEILING PLAN.
9. ALL EQUIPMENT ON FIRE ALARM DRAWINGS ARE APPROXIMATE, FINAL LOCATIONS SHALL BE COORDINATED WITH THE ARCHITECT. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT SHOWN, AT LOCATIONS AS DIRECTED BY THE ARCHITECT WITHOUT ADDITIONAL COMPENSATION.
10. FOLLOW DIMENSIONS, WHERE INDICATED ON DRAWINGS, DO NOT SCALE DRAWINGS.
11. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2020 NATIONAL ELECTRICAL CODE AND OTHER APPLICABLE CODES AND STANDARDS.
12. FUSES SHALL BE DUAL ELEMENT, TIME DELAY TYPE UNLESS OTHERWISE NOTED. COORDINATE FUSE SIZES WITH THE MOTORS FURNISHED UNDER THE MECHANICAL AND GENERAL CONTRACTS.
13. ALL CONDUCTORS SHALL BE COPPER.
14. FIRE STOPPING: WHERE CONDUITS OR CABLING PENETRATE FIRE AND SMOKE BARRIERS INCLUDING WALLS, PARTITIONS, FLOORS, AND CEILINGS, INSTALL FIRE-STOPPING AT PENETRATIONS AFTER CABLES ARE INSTALLED.
15. MATERIALS FOR FIRE STOPPING SHALL BE UL LISTED AND LABELED AND FM APPROVED FOR FIRE RATINGS CONSISTENT WITH PENETRATED BARRIERS. SLEEVES SHALL BE SCHEDULE 40, WELDED, BLACK STEEL PIPE SLEEVES. SIZES AS REQUIRED FOR EQUIVALENT AREA AS THE WIREWAYS. SEALING FITTINGS SHALL BE SUITABLE FOR SEALING CABLES IN SLEEVES OR CORE DRILLED HOLES. TWO-PART SEALANT: FORMED-IN-PLACE SEALANT FIRE-RESISTANT JOINT SEALERS.
16. UNLESS OTHERWISE NOTED ALL INDOOR ELECTRICAL EQUIPMENT SHALL BE PROVIDED WITH, AND HOUSED IN, A NEMA 1 ENCLOSURE. ALL OUTDOOR ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN NEMA 3R ENCLOSURE.
17. COMMON NEUTRALS ARE NOT ACCEPTABLE.
18. ELECTRICAL CONTRACTOR SHALL EXAMINE THE DRAWINGS OF ALL TRADES AND COORDINATE THEIR WORK TO AVOID INTERFERENCE WITH STRUCTURE, AND ALL EQUIPMENT ABOVE AND BELOW THE CEILING.
19. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE BEFORE PROCEEDING WITH THE WORK.
20. WIRE FLOW AND TAMPER SWITCHES FOR THE FIRE PROTECTION SYSTEM TO THE FIRE ALARM SYSTEM. FINAL QUANTITY OF FLOW AND TAMPER SWITCHES SHALL BE COORDINATED WITH THE FIRE PROTECTION CONTRACTOR AND FIRE SERVICE RISER DIAGRAM.
21. WIRE ALL FIRE ALARM AUXILIARY PANELS TO A 1P-20A C/B AS INDICATED ON THE PANEL SCHEDULES, INSTALL BREAKER LOCK ON FIRE ALARM CIRCUIT BREAKER.
22. PROVIDE MATCHING CORD AND PLUGS FOR ALL RECEPTACLES OTHER THAN STANDARD 20A DUPLEX RECEPTACLES.
23. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE MOUNTINGS AND NUMBER OF FACES FOR THE EXIT SIGNS. THE LIGHTING FIXTURE SHOP DRAWING SUBMISSION SHALL REFLECT THIS COORDINATION.
24. CONTRACTOR MUST COORDINATE ROOMS NAMES ON THE PANEL SCHEDULES WITH THE FINAL ROOM NAMES, IN THE FIELD. ALL PANELS SHALL BE PROVIDED WITH TYPED PANEL SCHEDULE.
25. PROVIDE FIBER BUSHINGS ON THE ENDS OF ALL CONDUIT STUBS.
26. ALL OF THE NOTES UNDER THE "GENERAL NOTES" SHALL APPLY TO ALL OF THE ELECTRICAL DRAWINGS.
27. ALL DEVICES/BOXES IN BLOCK WALLS SHALL HAVE MIN 3/4"C (UNLESS OTHERWISE NOTED) FROM BOX TO ABOVE AN ADJACENT ACCESSIBLE CEILING.
28. ALL SWITCHES, RECEPTACLES, PANELBOARDS, FIRE ALARM PANELS, POWER SUPPLIES AND DISCONNECTS SHALL BE LABELED WITH SOURCE PANEL AND CIRCUIT.
29. ALL SPARE CONDUITS SHALL BE PROVIDED WITH A PULL STRING.
30. ALL PANELS THAT HAVE NEW CIRCUITS OR REMOVED CIRCUITS SHALL HAVE NEW TYPED UPDATED PANEL SCHEDULES.
31. ALL SWITCHES, RECEPTACLES, PANELBOARDS, DISCONNECTS AND EQUIPMENT SHALL BE LABELED WITH SOURCE PANEL AND CIRCUITS.

DEMOLITION NOTES

1. ALL WORK UNDER THIS SECTION SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO DEMOLITION.
2. DEMOLITION/RELOCATIONS: EACH TRADE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND RELOCATIONS OF SERVICES, EQUIPMENT AND MATERIAL RELATING TO THEIR RESPECTIVE TRADE.
3. PRIOR TO DEMOLITION CONTRACTOR SHALL REVIEW WITH OWNER ALL MATERIALS TO BE REMOVED. SHOULD THE OWNER OPT TO KEEP ANY MATERIALS, THE CONTRACTOR SHALL REMOVE AND DELIVER THE PARTS TO THE OWNER ON THE SITE WHERE SO DIRECTED. OTHERWISE, ALL DEMOLISHED OR REMOVED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR, SHALL BE REMOVED FROM THE SITE, AND BE DISPOSED OF IN A LEGAL MANNER.
4. DEMOLITION SHALL INCLUDE REMOVAL OF ALL PARTS AND PIECES IN THEIR ENTIRETY BACK TO THE POINTS INDICATED OR IF NOT INDICATED BACK TO THEIR POINT OF SOURCE. WHERE CONDITIONS PROHIBIT TOTAL REMOVAL OF THE WORK, THE REMAINING PORTION SHALL BE CUT FLUSH WITH THE SURROUNDING SURFACE SHALL BE REFINISHED IN AN APPROVED MANNER.
5. MAINTAIN EXISTING UTILITIES INDICATED OR WHERE REQUIRED TO REMAIN, KEEP IN SERVICE, AND PROTECT AGAINST DAMAGE DURING DEMOLITION OPERATIONS. DO NOT INTERRUPT EXISTING UTILITIES SERVING OCCUPIED OR USED FACILITIES, EXCEPT WHEN SCHEDULED WITH THE OWNER.
6. DO NOT REMOVE EXISTING STRUCTURAL WORK. DO NOT REMOVE OPERATIONAL ELEMENTS AND SAFETY-RELATED COMPONENTS IN A MANNER RESULTING IN A REDUCTION OF CAPACITIES TO PERFORM IN THE MANNER INTENDED OR RESULTING IN DECREASED OPERATIONAL LIFE, INCREASED MAINTENANCE, OR DECREASED SAFETY.
7. REMOVALS, DISCONNECTIONS, AND RELOCATIONS SHALL BE PERFORMED BY WORKMEN SKILLED IN THE TRADE INVOLVED AND SHALL BE EMPLOYED BY A CONTRACTOR LICENSED IN THE TRADE INVOLVED. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ACCEPTED TRADE PRACTICES.
8. PROVIDE ADEQUATE TEMPORARY SUPPORT FOR WORK TO REMAIN TO PREVENT FAILURE. DO NOT ENDANGER OTHER WORK.
9. PROTECTION: PROVIDE ADEQUATE PROTECTION WHERE REQUIRED FOR THE PRESENT BUILDING AND ITS CONTENTS. CONTRACTOR SHALL TAKE EVERY PRECAUTION AGAINST FIRE BY EMPLOYING FIRE DEPARTMENT TYPE HOSES AND PORTABLE FIRE EXTINGUISHERS AS REQUIRED BY OSHA AND/OR THE OWNER'S INSURANCE UNDERWRITER.
10. ALL EXISTING EQUIPMENT REQUIRED TO BE REUSED SHALL BE CLEANED, RECONDITIONED, CALIBRATED AND ADJUSTED. IN ALL INSTANCES WHERE CONTRACTOR FINDS THAT EXISTING EQUIPMENT IS DEFECTIVE TO THE POINT WHERE IT CANNOT BE PROPERLY RESTORED AND WILL NOT OPERATE PROPERLY, THEY SHALL REPORT THE SPECIFIC INSTRUMENTS OR EQUIPMENT TO THE ENGINEER FOR DIRECTIONS.
11. ALL DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR SHALL CAREFULLY EXAMINE EXISTING CONDITIONS PRIOR TO STARTING WORK.
12. DEMOLITION SHALL INCLUDE REMOVAL OF ALL PARTS AND PIECES IN THEIR ENTIRETY BACK TO THE POINTS INDICATED OR IF NOT INDICATED BACK TO THEIR POINT OF SOURCE. MAINTAIN (E) CIRCUIT INTEGRITY.
13. ALL FIRE ALARM PANELS AND DEVICES SHOWN TO BE DEMOLISHED. SHALL BE SALVAGED AND TURNED OVER TO OWNER.

CONTRACTOR RESPONSIBILITY CHART

MATERIAL	PROVIDED BY	INSTALLED BY	LOW-VOLTAGE WIRING BY	120V POWER, BACKBOX AND CONDUIT BY	PROGRAMMING/ HEAD END TERMINATIONS/TESTING
DATA JACKS, CAT6 CABLING, FIBER OPTIC CABLE, FACEPLATES, RACKS AND PATCH PANELS	●	●	●	●	●
DARK FIBER	■	■	■	●	■
CARD ACCESS & INTERCOM	■	●	●	●	■
SECURITY CCTV CAMERAS	■	●	●	●	■
DOOR HARDWARE (LATCH RETRACTION, STRIKES, POWER SUPPLIES, ECT.)	●	●	●	●	■
AUDIO VISUAL (A/V) SYSTEMS (PROJECTORS, MOUNTS, PROJECTION SCREENS, DISPLAY MOUNTS, ECT.)	■	■	■	●	■
POWER & LIGHTING	●	●	●	●	●
FIRE ALARM	●	●	●	●	●
WIFI & WIRELESS ACCESS POINTS	■	●	●	●	■
NETWORK EQUIPMENT INSTALLATION	■	■	■	■	■

** THIS CHART SHALL SUPERSEDE ANY OTHER LOCATIONS DESCRIBING CONTRACTOR RESPONSIBILITIES.

LEGEND:
- ■ ROWAN UNIVERSITY
- ● CONTRACTOR

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
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Blue Bell, PA 19422
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RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
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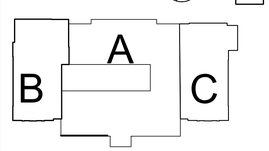
KEY PLAN:



No.	Date	Description
	12/08/25	OUT TO BID
	12/03/25	DCA Submission

Revisions / Issues

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DO NOT SCALE, DRAWING MAY BE PRINTED AT REDUCED SCALE, CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
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ELECTRICAL COVER SHEET

Sheet No:
E-001
Sheet 0 of 000

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L:\2528A\ELECTRICAL\

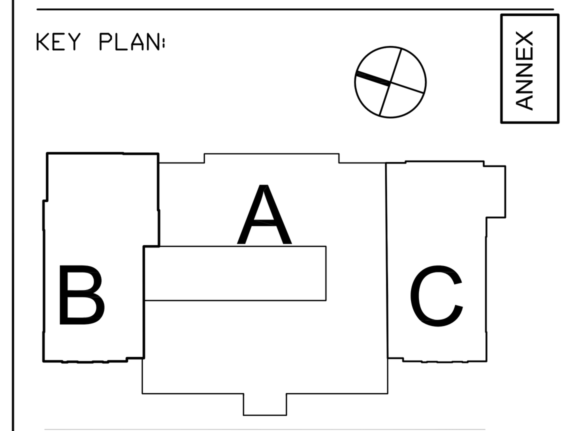
SYMBOL LEGEND CONTINUED

	EXIT SIGNS (CONTRACTOR TO COORDINATE # OF FACES AND THE FINAL MOUNTING REQUIREMENTS).
e/2	LIGHTING CIRCUITING INFORMATION. IN THIS EXAMPLE, CONTRACTOR SHALL WIRE FIXTURE TO CIRCUIT #2, AND FIXTURE SHALL BE CONTROLLED BY CONTROL LEG "e". ALL FIXTURES SHALL BE WIRED WITH 2#16AWG WIRING FOR 0–10V DIMMING PLUS BRANCH CIRCUIT CONDUCTORS, OR USE OF METAL–CLAD LUMINARY CABLE MAY BE USED WHERE WIRING IS CONCEALED.
EM or	LUMINAIRE PROVIDING NORMAL/EMERGENCY ILLUMINATION, WIRED TO EMERGENCY GENERATOR BACKED POWER, VIA UL924 RELAY WHERE SHOWN TO BE CONTROLLED BY LIGHTING CONTROLS.
CS a,b,c	CEILING MOUNTED VACANCY/OCCUPANCY SENSOR AND ASSOCIATED DIGITAL ROOM CONTROLLER. IN THIS EXAMPLE, SENSOR SHALL CONTROL FIXTURES ON CONTROL LEG "a", "b" AND "c".
CS a,b,c	WALL MOUNTED VACANCY/OCCUPANCY SENSOR AND ASSOCIATED DIGITAL ROOM CONTROLLER. IN THIS EXAMPLE, SENSOR SHALL CONTROL FIXTURES ON CONTROL LEG "a", "b" AND "c".
HB CS a,b,c	CEILING MOUNTED VACANCY/OCCUPANCY SENSOR FOR HIGH BAY MOUNTING LOCATIONS AND ASSOCIATED DIGITAL ROOM CONTROLLER. IN THIS EXAMPLE, SENSOR SHALL CONTROL FIXTURES ON CONTROL LEG "a", "b" AND "c".
DL	CEILING MOUNTED DAYLIGHTING SENSOR AS PART OF DIGITAL LIGHTING CONTROL SYSTEM. REFER TO FLOOR PLANS, WHERE FIXTURES LABELED WITH "DZ1" SHALL BE CONTROLLED BY A SEPARATE DIMMING ZONE FOR THE PRIMARY DAYLIGHTING ZONE AND FIXTURES LABELED WITH "DZ2" SHALL BE CONTROLLED BY A SEPARATE DIMMING ZONE FOR THE SECONDARY DAYLIGHTING ZONE. LIGHTING CONTROLS SHALL BE PROGRAMMED ACCORDINGLY.
$S_{os}a$	WALL MOUNTED SWITCH TYPE OCCUPANCY SENSOR, CONTROLLING SWITCH LEG "a".
$S_{vs}a$	WALL MOUNTED SWITCH TYPE VACANCY SENSOR, CONTROLLING SWITCH LEG "a".
$S_{DS}a$	WALL MOUNTED DIMMING SWITCH TYPE VACANCY SENSOR, CONTROLLING SWITCH LEG "a" WITH ON/RAISE AND OFF/LOWER FUNCTION.
$S_{2B}a$	TWO BUTTON DIGITAL SWITCH, CONTROLLING SWITCH LEG "a" WITH ON/OFF FUNCTION.
$S_{4B}a$	FOUR BUTTON DIGITAL DIMMER SWITCH, CONTROLLING SWITCH LEG "a" WITH ON/OFF/RAISE/LOWER FUNCTIONS.
$S_{6B}a$	SIX BUTTON DIGITAL DIMMER SWITCH, CONTROLLING SWITCH LEG "a" WITH ON/OFF/SCENE 1/SCENE 2/RAISE/LOWER FUNCTIONS.
Sa	SINGLE POLE SWITCH, CONTROLLING SWITCH LEG "a".
S_3a	THREE–WAY SWITCH, CONTROLLING SWITCH LEG "a".
DD1;12	ELECTRICAL CIRCUITING INFORMATION. IN THIS EXAMPLE, EC SHALL WIRE DEVICE TO CIRCUIT #12 IN PANEL "DD1".
e/2	LIGHTING CIRCUITING INFORMATION. IN THIS EXAMPLE, EC SHALL WIRE FIXTURE TO CIRCUIT #2, VIA SWITCH LEG "e".
a/DZ1/2	LIGHTING CIRCUITING INFORMATION. IN THIS EXAMPLE, EC SHALL WIRE FIXTURE TO CIRCUIT #2, VIA SWITCH LEG "a" AND CONTROLLED BY DAY LIGHTING ZONE #1.
COX	LIGHTING CONTROL INFORMATION. EC SHALL PROVIDE ALL PARTS AND PIECES TO CONTROL LIGHTS IN THE SPACES. REFER TO LIGHTING CONTROL SCHEDULE ON DWG E600.
	EXISTING ELECTRICAL PANEL
	NEW ELECTRICAL PANEL
	STANDARD 20A DUPLEX CONVENIENCE RECEPTACLE WALL MOUNTED AT 18" AFF, UNLESS OTHERWISE NOTED. RECEPTACLE TO BE INSTALLED IN NEW OR EXISTING DRYWALL SHALL HAVE RECESSED SINGLE GANG BACKBOX WITH SINGLE GANG FACEPLATE MC–CABLE CONCEALED/FISHED IN DRYWALL. WHERE WIRING CANNOT BE FISHED IN EXISTING WALLS, INSTALL WIRING IN SURFACE METALLIC RACEWAY.
	STANDARD 20A QUAD CONVENIENCE RECEPTACLE WALL MOUNTED AT 18" AFF, UNLESS OTHERWISE NOTED. RECEPTACLE TO BE INSTALLED IN NEW OR EXISTING DRYWALL SHALL HAVE RECESSED DOUBLE GANG BACKBOX WITH MC–CABLE CONCEALED/FISHED IN DRYWALL. WHERE WIRING CANNOT BE FISHED IN EXISTING WALLS, INSTALL WIRING IN SURFACE METALLIC RACEWAY.
	SPECIAL RECPETACLE. REFER TO DWGS FOR NEMA RECEPTACLE TYPE.
USB	DUPLEX RECEPTACLE WITH (2) USB PORTS (TYPE A & C). REFER TO STANDARD DUPLEX RECEPTACLE DESCRIPTION FOR ADDITIONAL REQUIREMENTS.
P	RECEPTACLE MOUNTED IN UNDERSIDE OF CEILING IN PROJECTOR MOUNT, FOR CEILING MOUNTED PROJECTOR. COORDINATE INSTALLATION WITH AUDIO/VISUAL VENDOR.
C	CEILING MOUNTED RECEPTACLE, FOR AIR FILTER UNIT, COORDINATE FINAL LOCATION WITH MC.
TV	DUPLEX RECEPTACLE WITH (2) USB PORTS (TYPE A & C) FOR WALL MOUNTED TELEVISION/MONITOR. RECEPTACLE TO BE MOUNTED IN 8"X10"X3" TV BOX, EQUAL TO ARLINGTON IND. #TVB810, AS NOTED IN "AV1" AUDIO VISUAL SYMBOL. COORDINATE FINAL MOUNTING HEIGHT IN FIELD WITH AUDIO/VISUAL VENDOR. REFER TO STANDARD DUPLEX RECEPTACLE DESCRIPTION FOR ADDITIONAL REQUIREMENTS.
J PS	MOTORIZED PROJECTION SCREEN LOCATION. EQUIPMENT FURNISHED BY AUDIO/VISUAL VENDOR. WIRE 120V CIRCUIT TO MOTORIZED SCREEN CONTROLLER AS SHOWN ON DRAWINGS. LOW VOLTAGE CONTROL WIRING BY AUDIO/VISUAL VENDOR.
E	EMERGENCY POWER SHUTOFF CONTROL STATION AND ASSOCIATED WIRING TO SHUNT TRIP MAIN CIRCUIT BREAKER IN ELECTRICAL PANEL "SS" SERVING RECEPTACLE LOADS IN SAME ROOM. REFER TO DETAIL 1/E607 FOR CONTROL WIRING DIAGRAM.
J	CEILING MOUNTED JUNCTION BOX
J	WALL MOUNTED JUNCTION BOX
	NON–FUSED, LOCKABLE, HEAVY–DUTY DISCONNECT. MINIMUM AMP RATING EQUAL TO OR GREATER THAN THE UPSTREAM CIRCUIT BREAKER RATING, UNLESS OTHERWISE NOTED. DISCONNECT INSTALLED OUTDOORS SHALL BE NEMA 3R RATED.
	WIRING & CONDUIT CONCEALED ABOVE HUNG CEILING
FB–1	6" FIRE–RATED POKE–THROUGH FLOOR BOX, WITH (2) DUPLEX 20A RECEPTACLES, EQUAL TO LEGRAND #6ATC2PXX AND COVER #6CT2XX, PROVIDE BLANK OFF DATA CENTER COMPARTMENT DEVICE MOUNTING PLATE, COVER FINISH TO BE SELECTED BY ARCHITECT.
CD	CORD DROP WITH CONNECTOR TO BE INSTALLED 6' AFF TO BOTTOM OF CONNECTOR. PROVIDE JB BELOW CEILING SUPPORTED TO BUILDING STRUCTURE ABOVE AND KELLEMS TYPE CORD STRAIN RELIEF AT EACH END OF CORD. PROVIDE 12/4 TYPE SJO CORD, AND NEMA TYPE L15–20C CONNECTOR, CKT AS INDICATED.
RC	RETRACTABLE CORD REEL. PROVIDE (1) SPRING–LOADED CORD REEL WITH 45' 12/3 CORD, EQUAL TO HUBBELL #HBLI45123GF220 WHITE CORD REEL WITH GFCI MODULE AND (2) DUPLEX NEMA 5–20R TAMPER–RESISTANT RECEPTACLES PER RECEPTACLE LOCATION. INSTALL 20A DUPLEX RECEPTACLE MOUNTED TO UNDERSIDE OF ACT CEILING FOR POWERING CORD REEL. SECURE CORD REEL WITH THREADED ROD AND UNISTRUT TO BUILDING STRUCTURE ABOVE.
FW	POWER FURNITURE WHIP TO POWERED FURNITURE. ROUTE 2#12+1#12GND WIRING IN 1/2" FLEXIBLE NON–METALLIC CONDUIT TO FURNITURE. CONTRACTOR TO MAKE FINAL CONNECTIONS AT FURNITURE CONNECTION POINT. WHEN SHOWN ON NEW WALLS, INSTALL RECESSED 1–GANG BACKBOX AT 18" AFF WITH BLANK PLATE WITH 1/2" 90° CONDUIT FITTING CONNECTION. WHEN ON EXISTING WALL WHERE WIRING IS NOT FEASIBLE TO FISH IN WALL, INSTALL SURFACE METALLIC RACEWAY TO CONNECTION LOCATION.
F	FIRE ALARM HORN AND STROBE. WALL MOUNT AT MIN 80" AFF TO BOTTOM OF STROBE LENS OR MAX 96"AFF TO TOP OF STROBE LENS OF DEVICE.
F	FIRE ALARM HORN AND STROBE. CEILING MOUNT, AT MIN 80" AFF TO BOTTOM OF STROBE LENS OR MAX 96"AFF TO TOP OF STROBE LENS OF DEVICE.
S	FIRE ALARM STROBE. WALL MOUNT AT MIN 80" AFF TO BOTTOM OF STROBE LENS OR MAX 96"AFF TO TOP OF STROBE LENS OF DEVICE.
S	FIRE ALARM STROBE. CEILING MOUNT AT MIN 80" AFF TO BOTTOM OF STROBE LENS OR MAX 96"AFF TO TOP OF STROBE LENS OF DEVICE.
F	FIRE ALARM MANUAL PULL STATION WITH PROTECTIVE LEXAN COVER. WALL MOUNT AT 48" AFF TO TOP OF DEVICE. REFER TO DETAIL 3/E304.
S	FIRE ALARM SMOKE DETECTOR
H	FIRE ALARM HEAT DETECTOR
M	FIRE ALARM MULTI–CRITERIA DETECTOR (SMOKE, HEAT, CARBON MONOXIDE) WITH SOUNDER BASE AND MONITOR MODULE WIRED TO FIRE ALARM PANEL.
C	CARBON MONOXIDE DETECTOR WITH SOUNDER BASE AND MONITOR MODULE WIRED TO FIRE ALARM PANEL.
SD	DUCT MOUNTED SMOKE DETECTOR WIRED TO EXISTING FIRE ALARM SYSTEM AND SHUTDOWN WIRING TO RESPECTIVE MECHANICAL EQUIPMENT. PROVIDE FIRE ALARM ADDRESSABLE RELAY, AS NECESSARY FOR EQUIPMENT SHUTDOWN CONTACTS. PROVIDED AND INSTALLED BY FIRE ALARM VENDOR. MOUNT REMOTE TEST LED & SWITCH BELOW FINISHED CEILING ADJACENT AT LOCATIONS INDICATED ON PLANS. MOUNT AS PER NFPA 72 AND 90A.
RTS	DUCT SMOKE DETECTOR KEYED REMOTE TEST STATION. MOUNT IN UNDERSIDE OF ACT CEILING. LABEL WITH MECHANICAL EQUIPMENT # AND WHETHER IT IS INSTALLED IN THE SUPPLY OR RETURN DUCT.
IAM	FIRE ALARM INTERFACE ADDRESSABLE MODULE
DH	MAGNETIC DOOR HOLDERS FOR ELECTRICALLY OPERATED FIRE DOOR, DOOR TO BE RELEASED AND POWERED VIA FIRE ALARM SYSTEM.
FS	FLOW SWITCH. PROVIDE CONNECTION TO FIRE ALARM PANEL FROM FLOW SWITCH VIA ADDRESSABLE FIRE ALARM MODULE AS PER MANUFACTURERS RECOMMENDED STANDARDS. REFER TO FIRE PROTECTION DRAWINGS FOR FINAL LOCATIONS AND QUANTITIES.
V	MONITORED VALVE. PROVIDE CONNECTION TO FIRE ALARM PANEL FROM MONITORED VALVE VIA ADDRESSABLE FIRE ALARM MODULE AS PER MANUFACTURERS RECOMMENDED STANDARDS. REFER TO FIRE PROTECTION DRAWINGS FOR FINAL LOCATIONS AND QUANTITIES.
PS	PRESSURE SWITCH. PROVIDE CONNECTION TO FIRE ALARM PANEL FROM PRESSURE SWITCH VIA ADDRESSABLE FIRE ALARM MODULE AS PER MANUFACTURERS RECOMMENDED STANDARDS. REFER TO FIRE PROTECTION DRAWINGS FOR FINAL LOCATIONS AND QUANTITIES.
TS	COVER TAMPER SWITCH. PROVIDE CONNECTION TO FIRE ALARM PANEL FROM COVER TAMPER SWITCH VIA ADDRESSABLE FIRE ALARM MODULE AS PER MANUFACTURERS RECOMMENDED STANDARDS. REFER TO FIRE PROTECTION DRAWINGS FOR FINAL LOCATIONS AND QUANTITIES.
TV	(2) CAT6A RJ–45 DATA JACK WITH SINGLE GANG FACEPLATE AND CATEGORY 6A PLENUM RATED CABLE FOR EACH DATA JACK BACK TO PATCH PANEL IN RACK IN NEAREST IDF/MDF CLOSET, INSTALLED IN "AV1" OR "AV8" BOX, SEE "AV1", "AV8" OR "AV9" DESCRIPTION BELOW, AND RUN BACK TO PATCH PANEL IN RACK IN NEAREST IDF/MDF CLOSET.
XD	(X) CAT6A RJ–45 DATA JACK(S) WITH DOUBLE GANG BACKBOX AND CATEGORY 6A PLENUM RATED CABLE FOR EACH DATA JACK BACK TO PATCH PANEL IN RACK IN NEAREST IDF/MDF CLOSET. PROVIDE AND INSTALL DOUBLE GANG BACKBOX WITH SINGLE GANG MUD RING. MOUNT JACKS AT 18" AFF, UNLESS NOTED OTHERWISE. DATA JACKS INSTALLED IN NEW CMU BLOCK WALLS SHALL HAVE NEW RECESSED BACKBOX WITH 1" CONDUIT IN WALL TO ABOVE FINISHED CEILING. JACKS INSTALLED IN NEW OR EXISTING DRYWALL SHALL HAVE RECESSED DOUBLE GANG BACKBOX WITH BUSHINGS AND CABLES CONCEALED IN DRYWALL. WHERE SHOWN ON EXISTING CMU WALLS, PROVIDE SURFACE MOUNTED METALLIC RACEWAYS AND BACKBOXES.
W	WALL TELEPHONE LOCATION. RJ–45 TELEPHONE JACK WITH SINGLE GANG BACKBOX AND CATEGORY 6A PLENUM RATED CABLE BACK TO RACK MOUNTED PATCH PANEL IN NEAREST IDF/MDF CLOSET. MOUNT JACKS AT 44" AFF TO TOP OF BOX. TELEPHONE WALL JACKS INSTALLED IN NEW CMU BLOCK WALLS SHALL HAVE NEW RECESSED BACKBOX WITH 3/4" CONDUIT IN WALL TO ABOVE FINISHED CEILING. JACKS INSTALLED IN NEW OR EXISTING DRYWALL SHALL HAVE RECESSED BACKBOX WITH BUSHING AND CABLE CONCEALED IN DRYWALL. INSTALL STAINLESS STEEL TELEPHONE WALL PLATE WITH RJ–45 JACK. COORDINATE FINAL LOCATION IN FIELD TO ENSURE TELEPHONE UNIT WILL FIT ON WALL PROPERLY.
WAP	WIRELESS ACCESS POINT LOCATION. INSTALL (2) CAT6A RJ–45 DATA JACKS WITH CATEGORY 6A PLENUM RATED CABLE FOR EACH DATA JACK BACK TO PATCH PANEL IN RACK IN NEAREST IDF/MDF CLOSET. COIL 10' SERVICE LOOP ABOVE CEILING AND TERMINATE CABLES IN SURFACE BISCUIT JACKS.
DFW	DATA FURNITURE WHIP TO WIRED OFFICE FURNITURE. INSTALL 1–1/2" FLEXIBLE NON–METALLIC CONDUIT TO FURNITURE FROM WALL JUNCTION BOX. FOR NEW WALLS, INSTALL RECESSED 2–GANG BACKBOX AT 18" AFF WITH BLANK PLATE WITH 1–1/2" 90° CONDUIT FITTING CONNECTION. FOR EXISTING WALL, INSTALL SURFACE 2–GANG BOX WITH BLANK PLATE WITH 1–1/2" 90° CONDUIT FITTING CONNECTION. FROM JUNCTION BOX TO ABOVE FINISHED CEILING, INSTALL 1–1/4" CONDUIT RECESSED IN WALLS OR 2–CHANNEL SURFACE METALLIC RACEWAY ON EXISTING WALLS.
C	INDOOR SECURITY CAMERA. INSTALL CATEGORY 6A PLENUM RATED CABLE BACK TO PATCH PANEL IN RACK IN NEAREST IDF/MDF CLOSET. COIL 10' SERVICE LOOP ABOVE CEILING AND TERMINATE CABLES IN MALE RJ–45 JACK. SECURITY CAMERA IS TO BE FURNISHED BY UNIVERSITY, INSTALLED BY CONTRACTOR. COORDINATE FINAL LOCATION AND AIMING WITH UNIVERSITY POLICE IN FIELD. REFER TO E702 FOR ADDITIONAL DETAILS.
C 2L	INDOOR SECURITY CAMERA WITH 180° COVERAGE, INTERIOR CEILING MOUNTED. INSTALL CATEGORY 6A PLENUM RATED CABLE BACK TO PATCH PANEL IN RACK IN NEAREST IDF/MDF CLOSET. COIL 10' SERVICE LOOP ABOVE CEILING AND TERMINATE CABLES IN MALE RJ–45 JACK. SECURITY CAMERA IS TO BE FURNISHED BY UNIVERSITY, INSTALLED BY CONTRACTOR. COORDINATE FINAL LOCATION AND AIMING WITH UNIVERSITY POLICE IN FIELD. PROVIDE MOUNTING SUPPORT FOR CAMERA EITHER FROM CEILING GRID OR BUILDING STRUCTURE. REFER TO E702 FOR ADDITIONAL DETAILS.
C 3L	INDOOR SECURITY CAMERA WITH 270° COVERAGE, INTERIOR CEILING MOUNTED. INSTALL CATEGORY 6A PLENUM RATED CABLE BACK TO PATCH PANEL IN RACK IN NEAREST IDF/MDF CLOSET. COIL 10' SERVICE LOOP ABOVE CEILING AND TERMINATE CABLES IN MALE RJ–45 JACK. SECURITY CAMERA IS TO BE FURNISHED BY UNIVERSITY, INSTALLED BY CONTRACTOR. COORDINATE FINAL LOCATION AND AIMING WITH UNIVERSITY POLICE IN FIELD. PROVIDE MOUNTING SUPPORT FOR CAMERA EITHER FROM CEILING GRID OR BUILDING STRUCTURE. REFER TO E702 FOR ADDITIONAL DETAILS.
C 4L	INDOOR SECURITY CAMERA WITH 360° COVERAGE, INTERIOR CEILING MOUNTED. INSTALL CATEGORY 6A PLENUM RATED CABLE BACK TO PATCH PANEL IN RACK IN NEAREST IDF/MDF CLOSET. COIL 10' SERVICE LOOP ABOVE CEILING AND TERMINATE CABLES IN MALE RJ–45 JACK. SECURITY CAMERA IS TO BE FURNISHED BY UNIVERSITY, INSTALLED BY CONTRACTOR. COORDINATE FINAL LOCATION AND AIMING WITH UNIVERSITY POLICE IN FIELD. PROVIDE MOUNTING SUPPORT FOR CAMERA EITHER FROM CEILING GRID OR BUILDING STRUCTURE. REFER TO E702 FOR ADDITIONAL DETAILS.
C WP	EXTERIOR WALL MOUNT SECURITY CAMERA. INSTALL CATEGORY 6A PLENUM RATED CABLE BACK TO PATCH PANEL IN RACK IN NEAREST IDF/MDF CLOSET. COIL 10' SERVICE LOOP ABOVE CEILING INSIDE EXTERIOR LOCATION AND TERMINATE CABLES IN MALE RJ–45 JACK. CORE DRILL EXTERIOR WALL AND COORDINATE MOUNTING OF SECURITY CAMERA BACKBOX WITH SECURITY SUB–CONTRACTOR IN FIELD. MOUNTING HEIGHT TO BE DETERMINED BY SECURITY SUB–CONTRACTOR AND UNIVERSITY SECURITY VENDOR. SECURITY CAMERA IS TO BE FURNISHED BY UNIVERSITY, INSTALLED BY CONTRACTOR. COORDINATE FINAL LOCATION AND AIMING WITH UNIVERSITY POLICE IN FIELD. REFER TO E702 FOR ADDITIONAL DETAILS.
C WP 4L	EXTERIOR CORNER WALL MOUNT SECURITY CAMERA WITH 4–LENS FOR 360 DEGREE COVERAGE, INSTALL CATEGORY 6A PLENUM RATED CABLE BACK TO PATCH PANEL IN RACK IN NEAREST IDF/MDF CLOSET. COIL 10' SERVICE LOOP ABOVE CEILING INSIDE EXTERIOR LOCATION AND TERMINATE CABLES IN MALE RJ–45 JACK. CORE DRILL EXTERIOR WALL AND COORDINATE MOUNTING OF SECURITY CAMERA BACKBOX WITH SECURITY SUB–CONTRACTOR IN FIELD. MOUNTING HEIGHT TO BE DETERMINED BY SECURITY SUB–CONTRACTOR AND UNIVERSITY SECURITY VENDOR. SECURITY CAMERA IS TO BE FURNISHED BY UNIVERSITY, INSTALLED BY CONTRACTOR. COORDINATE FINAL LOCATION AND AIMING WITH UNIVERSITY POLICE IN FIELD. REFER TO E702 FOR ADDITIONAL DETAILS.
PTZ C WP	EXTERIOR WALL MOUNT SECURITY CAMERA WITH PAN, TILT, AND ZOOM FUNCTIONS, INSTALL CATEGORY 6A PLENUM RATED CABLE BACK TO PATCH PANEL IN RACK IN NEAREST IDF/MDF CLOSET. COIL 10' SERVICE LOOP ABOVE CEILING INSIDE EXTERIOR LOCATION AND TERMINATE CABLES IN MALE RJ–45 JACK. CORE DRILL EXTERIOR WALL AND MOUNT SECURITY CAMERA BACKBOX. COORDINATE MOUNTING HEIGHT WITH UNIVERSITY SECURITY VENDOR. SECURITY CAMERA IS TO BE FURNISHED BY UNIVERSITY, INSTALLED BY CONTRACTOR. COORDINATE FINAL LOCATION AND AIMING WITH UNIVERSITY POLICE IN FIELD. REFER TO E702 FOR ADDITIONAL DETAILS.
CR	CREDENTIAL READER LOCATION. SINGLE GANG WEATHERPROOF BACKBOX WITH 3/4" CONDUIT TO AN ACCESSIBLE SPACE ABOVE FINISHED INTERIOR CEILING WITH FIBER BUSHINGS ON EACH END AND PULL STRING. MOUNT TOP OF BACKBOX AT 48" AFF AND PROVIDE BLANK STAINLESS STEEL PLATE. CONCEAL CONDUIT, WHERE FEASIBLE. FOR EXTERIOR DOORS, ROUTE CONDUIT ON INSIDE OF BUILDING UP TO ABOVE NEAREST ACCESSIBLE CEILING. COORDINATE INSTALLATION IN FIELD GC. INSTALL WIRING IN SURFACE METALLIC RACEWAY WHERE EXPOSED INDOORS. REFER TO SPECIFICATIONS FOR WIRING REQUIREMENTS. CARD READER IS TO BE FURNISHED BY UNIVERSITY, INSTALLED BY CONTRACTOR.
CW	WIRELESS CREDENTIAL READER DOOR HARDWARE. CARD READER IS TO BE FURNISHED BY UNIVERSITY, INSTALLED BY CONTRACTOR.
EL	ELECTRIC LOCK LOCATION FOR DOOR ACCESS CONTROL. CONTRACTOR SHALL INSTALL 1/2" CONDUIT FROM DOOR FRAME TO ABOVE CEILING. CONCEAL CONDUIT IN WALL WHERE FEASIBLE. WHERE NECESSARY TO INSTALL ON WALL SURFACE, INSTALL IN SURFACE METALLIC RACEWAY AND PAINT TO MATCH ADJACENT SURFACE. REFER TO SPECIFICATIONS FOR WIRING REQUIREMENTS.
DP	DOOR POWER SUPPLY LOCATION. CONTRACTOR SHALL WIRE 120V CIRCUIT AS INDICATED ON PLANS. POWER SUPPLY TO BE FURNISHED BY GC, AND INSTALLED/WIRED BY EC.
IC	VIDEO INTERCOM LOCATION. INSTALL CATEGORY 6A PLENUM RATED CABLE BACK TO PATCH PANEL IN RACK IN NEAREST IDF/MDF CLOSET. CUT AND PATCH WALL AND CEILING IN LOBBY AREA TO CONCEAL CONDUIT AND WIRING. COORDINATE FINAL INSTALLATION AND MOUNTING HEIGHT IN FIELD WITH SECURITY VENDOR. TOP OF INTERCOM SHALL BE AT 48" AFF. VIDEO INTERCOM IS TO BE FURNISHED BY UNIVERSITY, INSTALLED BY CONTRACTOR.
IR	INTERCOM RELAY LOCATION. MOUNT ABOVE ACCESSIBLE CEILING. INSTALL 4#18AWG CABLE FROM INTERCOM RELAY TO VIDEO INTERCOM LOCATION, UTILIZING SAME CONDUIT AS CAT6A CABLE TO VIDEO INTERCOM. COORDINATE FINAL INSTALLATION IN FIELD WITH SECURITY VENDOR. INTERCOM RELAY IS TO BE FURNISHED BY UNIVERSITY, INSTALLED BY CONTRACTOR.
GW	GATEWAY WIRELESS LOCK REPEATER. GATEWAY REPEATER TO BE FURNISHED BY UNIVERSITY, INSTALLED BY CONTRACTOR. REPEATERS TO BE WIRED IN DAISY–CHAINED MANNER. FOR EXAMPLE, ALL REPEATERS LABELED WITH "1" ARE TO BE WIRED TO EACH OTHER, WITH THE REPEATER CLOSEST TO THE MDF/IDF ROOM TO BE HOME RUN BACK TO ACCESS CONTROL PANEL. REFER TO E703 FOR WIRING REQUIREMENTS.
ADA	ADA PUSH PLATE FOR ELECTRIC DOOR OPENER, FURNISHED AND INSTALLED BY GC, WIRED BY EC. INSTALL 2#18AWG IN 1/2"C AND WIRING BETWEEN PUSHPLATE AND DOOR CONTROLLER. COORDINATE INSTALLATION WITH GC IN FIELD. ROUTE CONDUIT BELOW FLOOR INTO STOREFRONT MULLIONS.
DO	AUTOMATIC ELECTRIC DOOR OPENER, FURNISHED AND INSTALLED BY GC, WIRED BY EC. PROVIDE 120V BRANCH CIRCUIT FOR POWER.
DC	SECURITY SYSTEM DOOR CONTACT. INSTALL RACEWAY FROM DOOR FRAME UP TO NEAREST ACCESSIBLE CEILING. CONCEAL CONDUIT WITHIN WALL, WHERE FEASIBLE. FOR EXTERIOR DOORS, ROUTE CONDUIT ON INSIDE OF BUILDING UP TO ABOVE NEAREST ACCESSIBLE CEILING. COORDINATE INSTALLATION IN FIELD GC. INSTALL WIRING IN 1/2" EMT CONDUIT WHERE CONCEALED IN WALL, OR IN SURFACE METALLIC RACEWAY WHERE EXPOSED INDOORS. DOOR CONTACTS TO BE PROVIDED BY UNIVERSITY, INSTALLED AND WIRED BY CONTRACTOR. REFER TO SPECIFICATIONS FOR WIRING REQUIREMENTS.
REX	SECURITY SYSTEM REQUEST–TO–EXIT PASSIVE INFRARED DEVICE. DEVICE TO BE MOUNTED ON CEILING ABOVE DOOR, PER MANUFACTURER'S INSTALLATION REQUIREMENTS. INSTALL ON SURFACE METALLIC RACEWAY BACKBOX WHERE EXPOSED INDOORS. REQUEST–TO–EXIT DEVICE IS TO BE PROVIDED BY UNIVERSITY, INSTALLED AND WIRED BY CONTRACTOR. REFER TO SPECIFICATIONS FOR WIRING REQUIREMENTS.
P	CEILING MOUNT PROJECTOR LOCATION. INSTALL (2) CAT6A RJ–45 DATA JACKS, EACH WITH A CATEGORY 6A PLENUM RATED CABLE BACK TO PATCH PANEL IN RACK IN NEAREST IDF/MDF CLOSET. COORDINATE INSTALLATION OF JACKS IN PROJECTOR MOUNT. FACEPLATE, A/V JACKS, PROJECTOR, MOUNT, AND AUDIO/VISUAL WIRING BY UNIVERSITY'S AUDIO/VISUAL VENDOR.
SP	CEILING MOUNTED SPEAKER. FURNISHED AND INSTALLED BY UNIVERSITY'S AUDIO/VISUAL VENDOR.
S1	WALL MOUNTED A/V SPEAKER. FURNISHED AND INSTALLED BY UNIVERSITY'S AUDIO/VISUAL VENDOR. CONTRACTOR SHALL INSTALL LOW–VOLTAGE WALL PLATE WITH 1" CONDUIT CONCEALED IN WALL TO ABOVE ACCESSIBLE CEILING.
S2	WALL MOUNTED A/V SPEAKER. FURNISHED AND INSTALLED BY UNIVERSITY'S AUDIO/VISUAL VENDOR. CONTRACTOR SHALL INSTALL SURFACE RACEWAY EQUAL TO LEGRAND #2400 SERIES RACEWAY, AT SPEAKER LOCATION ON WALL TO ABOVE ACCESSIBLE CEILING. COORDINATE STYLE(S) AND QUANTITIES OF BOX REQUIREMENTS WITH UNIVERSITY'S AUDIO/VISUAL VENDOR.
SP	1' X 2' CEILING MOUNTED SPEAKER, DEMO ONLY.
SP	CLOCK/SPEAKER LOCATION, DEMO ONLY.
M	DIGITAL MICROPHONE ARRAY AND CABLING, FURNISHED AND INSTALLED BY UNIVERSITY'S AUDIO/VISUAL VENDOR.
AV1	AUDIO/VISUAL CONNECTION LOCATION FOR TELEVISION'S A/V INTERFACE. CONTRACTOR SHALL PROVIDE AND INSTALL 8"X10"X3" TV BOX, EQUAL TO ARLINGTON IND. #TVB810, WITH 1–1/2" CONDUIT TO ABOVE CEILING AND 1–1/2" CONDUIT TO "AV2" LOCATION IN WALL BELOW, PROVIDE PLASTIC BUSHINGS ON BOTH ENDS OF EACH CONDUIT. MOUNT BACKBOX AT 65" AFF, COORDINATE FINAL MOUNTING HEIGHT WITH AUDIO/VISUAL VENDOR. CABLING, FACEPLATE, AND A/V JACKS BY UNIVERSITY'S AUDIO/VISUAL VENDOR.
AV2	AUDIO/VISUAL LOCATION. CONTRACTOR SHALL INSTALL LOW–VOLTAGE WALL PLATE WITH 1–1/2" CONDUIT CONCEALED IN WALL TO "AV1" LOCATION ON WALL ABOVE. PROVIDE PLASTIC BUSHINGS ON BOTH ENDS OF CONDUIT. MOUNT AT 18" AFF, UNLESS OTHERWISE NOTED. CABLING, FACEPLATE, AND A/V JACKS BY UNIVERSITY'S AUDIO/VISUAL VENDOR. COORDINATE FINAL LOCATION ON WALL WITH ARCHITECT IN FIELD TO BE LOCATED BEHIND A/V RACK PORTION OF FURNITURE.
AV3	AUDIO/VISUAL CAMERA LOCATION. CONTRACTOR SHALL INSTALL 2–CHANNEL SURFACE METALLIC RACEWAY, EQUAL TO LEGRAND/WIREMOLD 4000 SERIES. COORDINATE ROUTING OF RACEWAY WITH WINDOWS ABOVE AND OTHER ARCHITECTURAL DETAILS. CABLING, FACEPLATE, AND A/V JACKS BY UNIVERSITY'S AUDIO/VISUAL VENDOR.
AV4	AUDIO/VISUAL LOCATION FOR USER INTERFACE AT PODIUM. CONTRACTOR SHALL INSTALL SINGLE GANG BACKBOX WITH 1" CONDUIT TO ABOVE CEILING. MOUNT AT 18" AFF, UNLESS OTHERWISE NOTED. CABLING, FACEPLATE, AND A/V JACKS BY UNIVERSITY'S AUDIO/VISUAL VENDOR.
AV5	AUDIO/VISUAL LOCATION FOR FEMALE HDMI WALL CONNECTION. CONTRACTOR SHALL INSTALL SINGLE GANG BACKBOX WITH 1" CONDUIT TO ABOVE CEILING. MOUNT ABOVE TABLE AND BELOW TV. CABLING, FACEPLATE, AND A/V JACKS BY UNIVERSITY'S AUDIO/VISUAL VENDOR.
AV6	AUDIO/VISUAL LOCATION. CONTRACTOR SHALL INSTALL LOW–VOLTAGE WALL PLATE WITH 1–1/2" CONDUIT CONCEALED IN WALL TO ABOVE ACCESSIBLE CEILING ABOVE. PROVIDE PLASTIC BUSHINGS ON BOTH ENDS OF CONDUIT. MOUNT AT 18" AFF, UNLESS OTHERWISE NOTED. CABLING, FACEPLATE, AND A/V JACKS BY UNIVERSITY'S AUDIO/VISUAL VENDOR. COORDINATE FINAL LOCATION ON WALL WITH ARCHITECT IN FIELD TO BE LOCATED AT THE TOWER SIDE OF THE INSTRUCTOR'S PODIUM.
AV7	AUDIO/VISUAL CAMERA LOCATION. CONTRACTOR SHALL INSTALL SURFACE RACEWAY EQUAL TO LEGRAND #2400 SERIES RACEWAY, AT CAMERA LOCATION ON WALL TO ABOVE CEILING. CABLING, FACEPLATE, AND A/V JACKS BY UNIVERSITY'S AUDIO/VISUAL VENDOR. COORDINATE STYLE(S) AND QUANTITIES OF BOX REQUIREMENTS WITH UNIVERSITY'S AUDIO/VISUAL VENDOR.
AV8	AUDIO/VISUAL CONNECTION LOCATION FOR TELEVISION'S A/V INTERFACE. CONTRACTOR SHALL PROVIDE AND INSTALL 8"X10"X3" TV BOX, EQUAL TO ARLINGTON IND. #TVB810, WITH 1–1/2" CONDUIT TO ABOVE CEILING AND 1–1/4" CONDUIT TO "AV5" LOCATION IN WALL BELOW AND PROVIDE PLASTIC BUSHINGS ON BOTH ENDS OF EACH CONDUIT. MOUNT BACKBOX AT 65", COORDINATE FINAL MOUNTING HEIGHT WITH AUDIO/VISUAL VENDOR. CABLING, FACEPLATE, AND A/V JACKS BY UNIVERSITY'S AUDIO/VISUAL VENDOR.
AV9	AUDIO/VISUAL CONNECTION LOCATION FOR TELEVISION'S A/V INTERFACE. CONTRACTOR SHALL PROVIDE AND INSTALL 8"X10"X3" TV BOX, EQUAL TO ARLINGTON IND. #TVB810, WITH 1–1/2" CONDUIT TO ABOVE CEILING AND PROVIDE PLASTIC BUSHINGS ON BOTH ENDS OF CONDUIT. MOUNT BACKBOX AT 65", COORDINATE FINAL MOUNTING HEIGHT WITH AUDIO/VISUAL VENDOR. CABLING, FACEPLATE, AND A/V JACKS BY UNIVERSITY'S AUDIO/VISUAL VENDOR.
CS	CABLE SLEEVES. AT EACH LOCATION SHOWN ON THE DRAWINGS, INSTALL (2) 2" EMT CONDUIT SLEEVES, 24" LONG, WITH PLASTIC BUSHINGS ON BOTH ENDS. SLEEVES ARE TO BE USED FOR LOW–VOLTAGE CABLING INSTALLED BY TECHNOLOGY VENDOR. EC TO INSTALL SEPARATE SLEEVES OR CONDUIT WALL PENETRATIONS ELECTRICAL POWER AND FIRE ALARM WIRING AS NECESSARY.
CS_{F2}	FIRE–RATED CABLE PASS–THROUGH DEVICE. AT EACH LOCATION SHOWN ON THE DRAWINGS, PROVIDE AND INSTALL 2" FIRE–RATED CABLE PASS–THROUGH DEVICE EQUAL TO HILTI SPEED SLEEVE CP 653. FIRE–RATED CABLE PASS–THROUGH DEVICES ARE TO BE USED FOR LOW–VOLTAGE CABLING INSTALLED BY TECHNOLOGY VENDOR. EC TO INSTALL SEPARATE SLEEVES OR CONDUIT WALL PENETRATIONS ELECTRICAL POWER AND FIRE ALARM WIRING AS NECESSARY.
CS_{F4}	FIRE–RATED CABLE PASS–THROUGH DEVICE. AT EACH LOCATION SHOWN ON THE DRAWINGS, PROVIDE AND INSTALL 4" FIRE–RATED CABLE PASS–THROUGH DEVICE EQUAL TO HILTI SPEED SLEEVE CP 653. FIRE–RATED CABLE PASS–THROUGH DEVICES ARE TO BE USED FOR LOW–VOLTAGE CABLING INSTALLED BY TECHNOLOGY VENDOR. EC TO INSTALL SEPARATE SLEEVES OR CONDUIT WALL PENETRATIONS ELECTRICAL POWER AND FIRE ALARM WIRING AS NECESSARY.

M/E/P Engineer:
SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN



No.	Date	Description
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Richard D. Alderiso , AIA
NJ RA AI 15023, NY RA 027416, PA RA 405474

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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:
ELECTRICAL LEGEND

Sheet No:
E-002
Sheet 0 of 000

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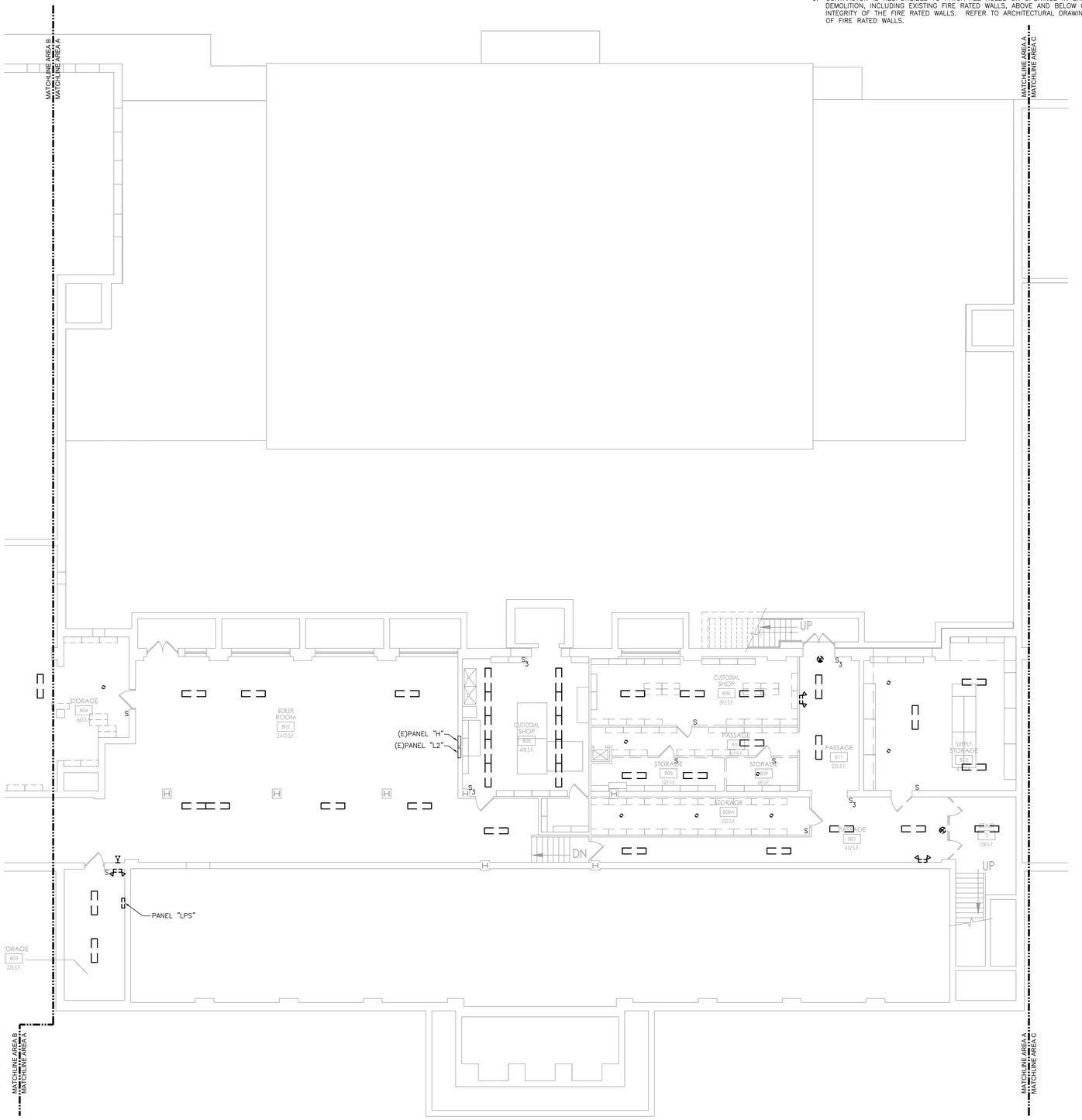

1 LIGHTING DEMOLITION BASEMENT FLOOR PLAN AREA A

SCALE: 1/8"=1'0"

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
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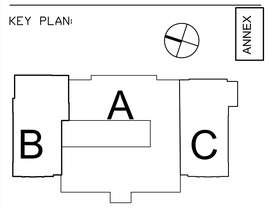
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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Client:

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201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:

Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:

Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:

LIGHTING DEMO BSMNT

Sheet No:

ED-100A

Sheet 0 of 000

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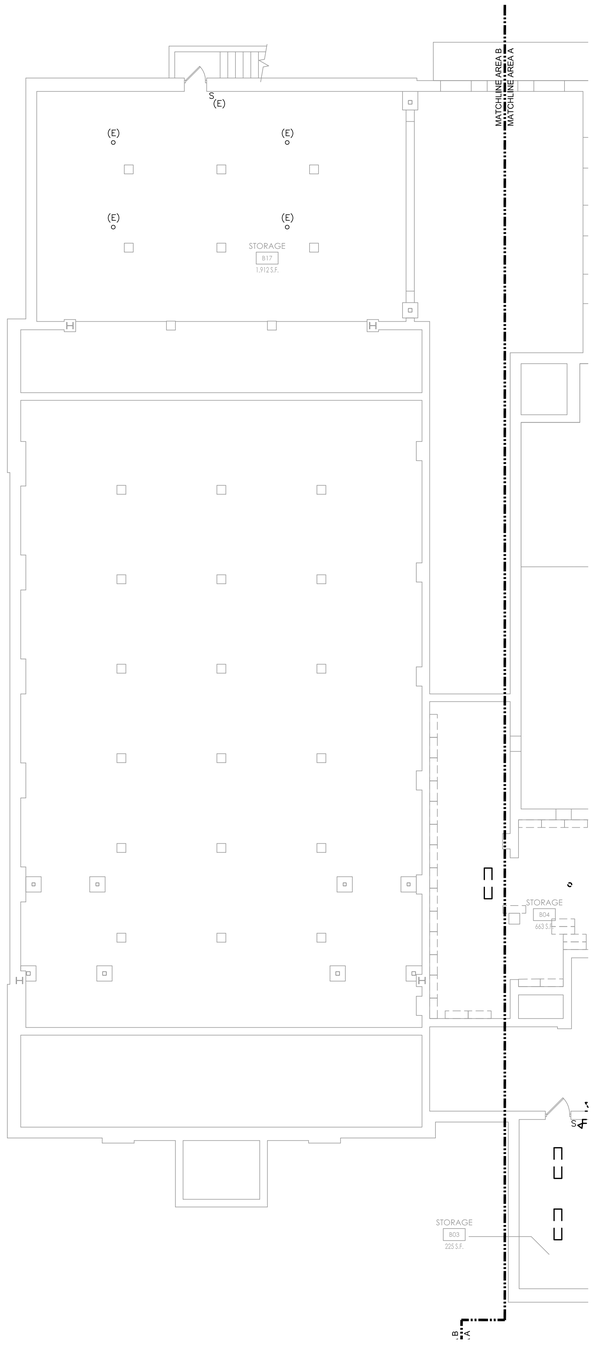
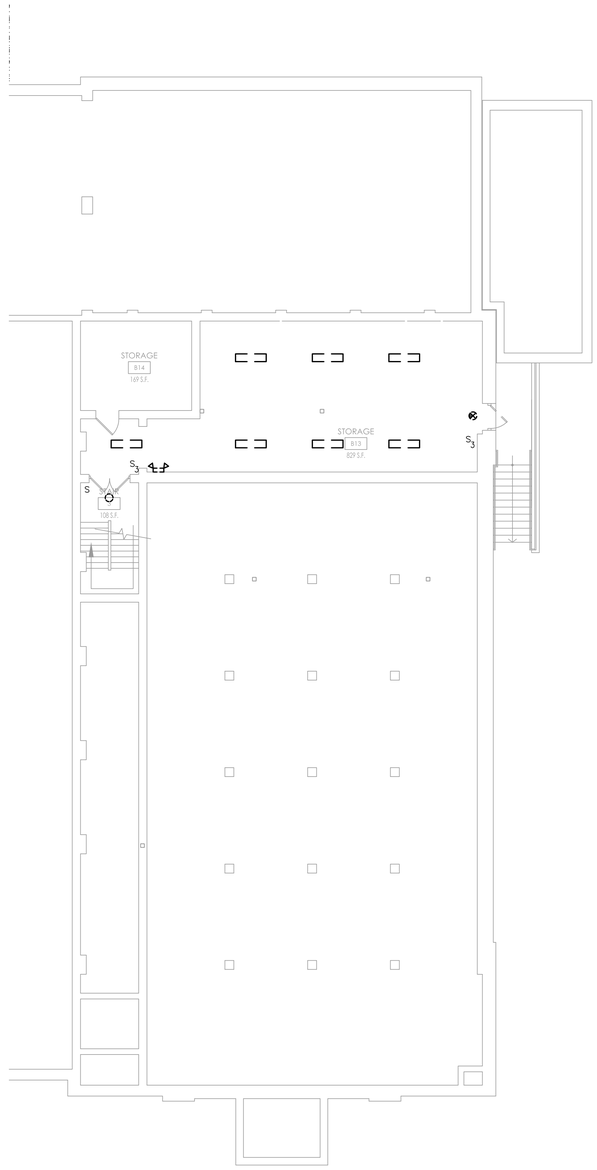


1 LIGHTING DEMOLITION BASEMENT FLOOR PLAN AREA B
SCALE: 1/8"=1'0"



2 LIGHTING DEMOLITION BASEMENT FLOOR PLAN AREA C
SCALE: 1/8"=1'0"

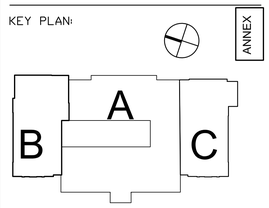
M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers

636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL
ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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NJ RA AI 15023, NY RA 027416, PA RA 405474

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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:
LIGHTING DEMO BSMNT

Sheet No:
ED-100B
Sheet 0 of 000

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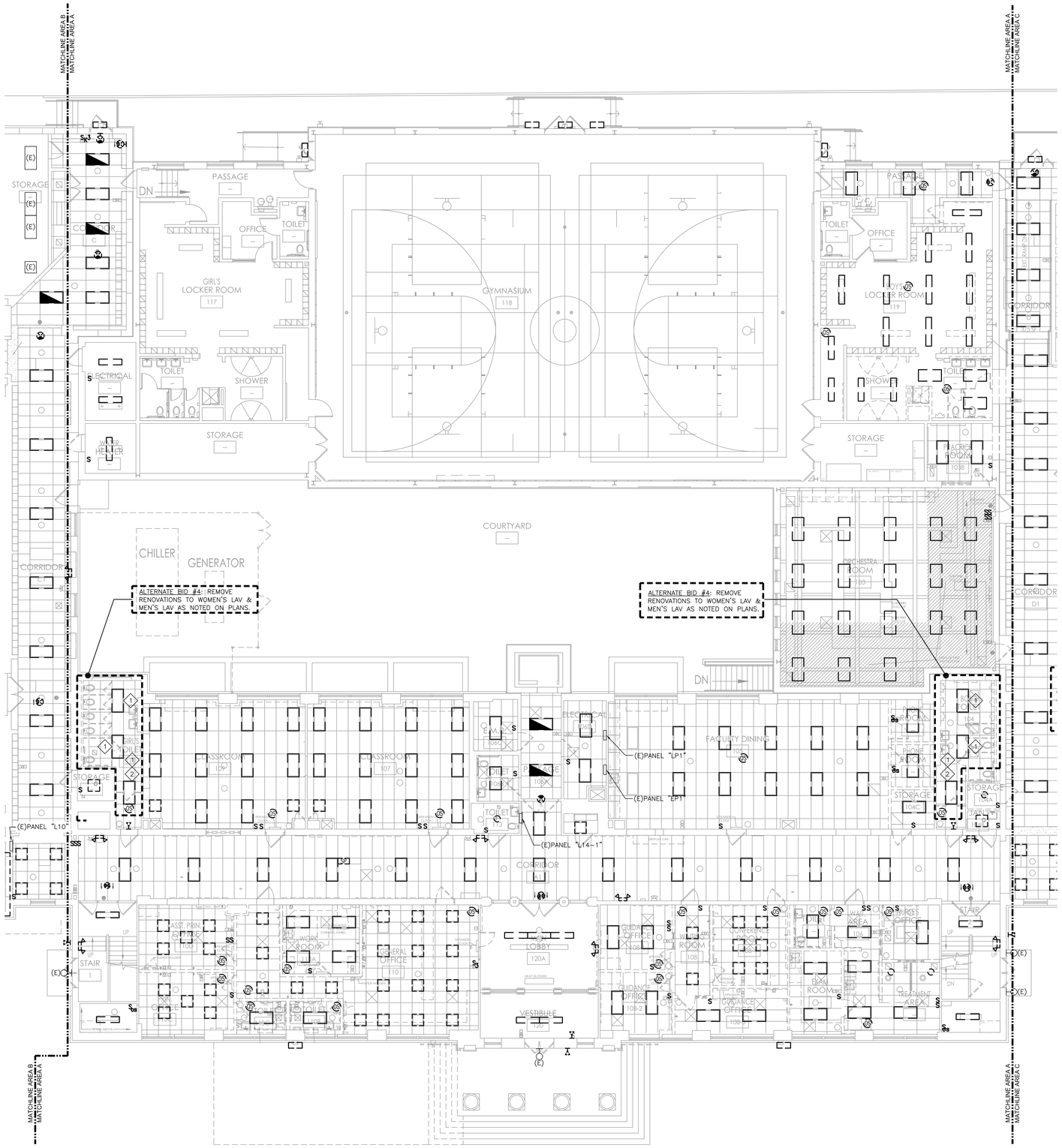

1 LIGHTING DEMOLITION FIRST FLOOR PLAN AREA A

SCALE: 1/8"=1'0"

NOTES:

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KEYED NOTES:

1. REMOVE AND REINSTALL (E)CEILING LIGHTS AS PART OF BASE BID.
2. LIGHT TO BE WIRED TO CORRIDOR NORMAL/EMERGENCY CIRCUIT, AHEAD OF ALL SWITCHING. ON 24/7 FOR SECURITY AS PART OF BASE BID.

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
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636 Skippack Pike, Suite 200
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S&H JOB #2528A

RICHARD L. DELP, PE
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LICENSE NO.: GE45368

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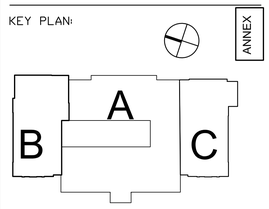

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Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:
LIGHTING DEMO 1ST FLR

Sheet No:
ED-101A
Sheet 0 of 000

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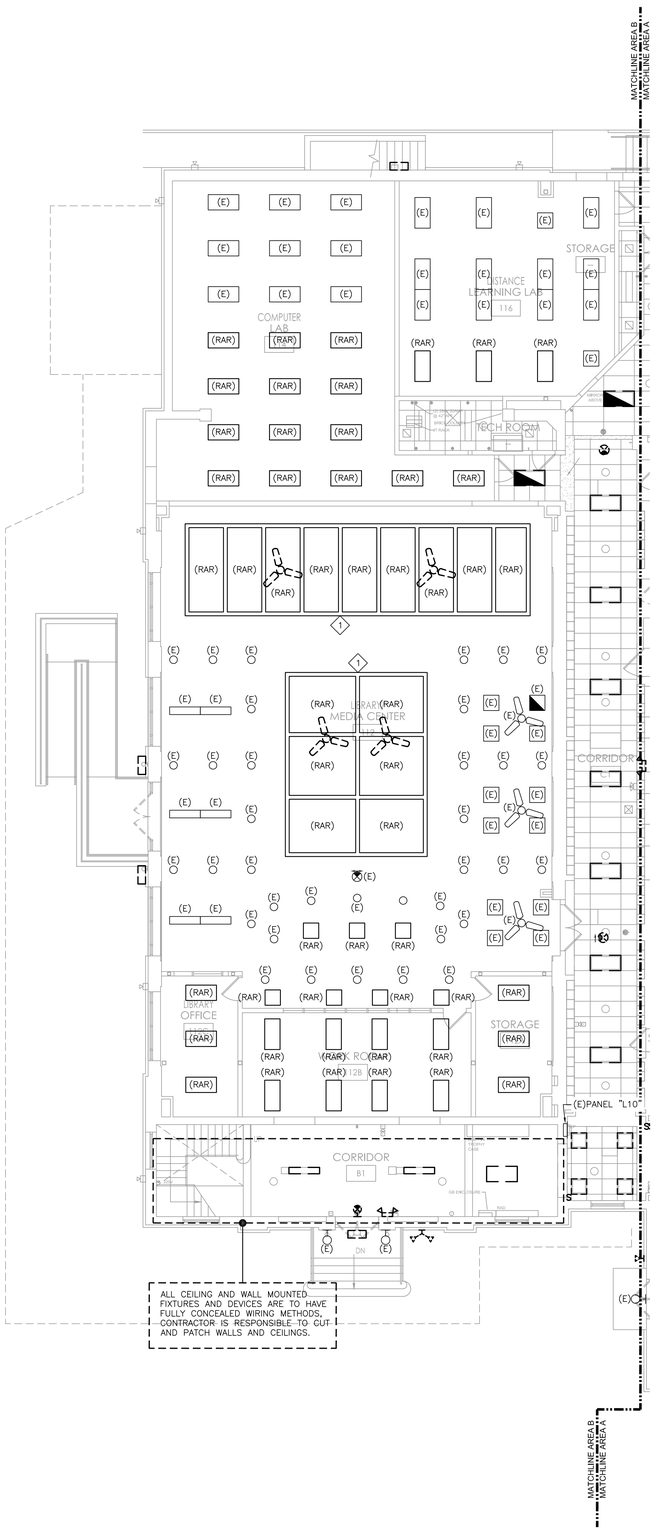

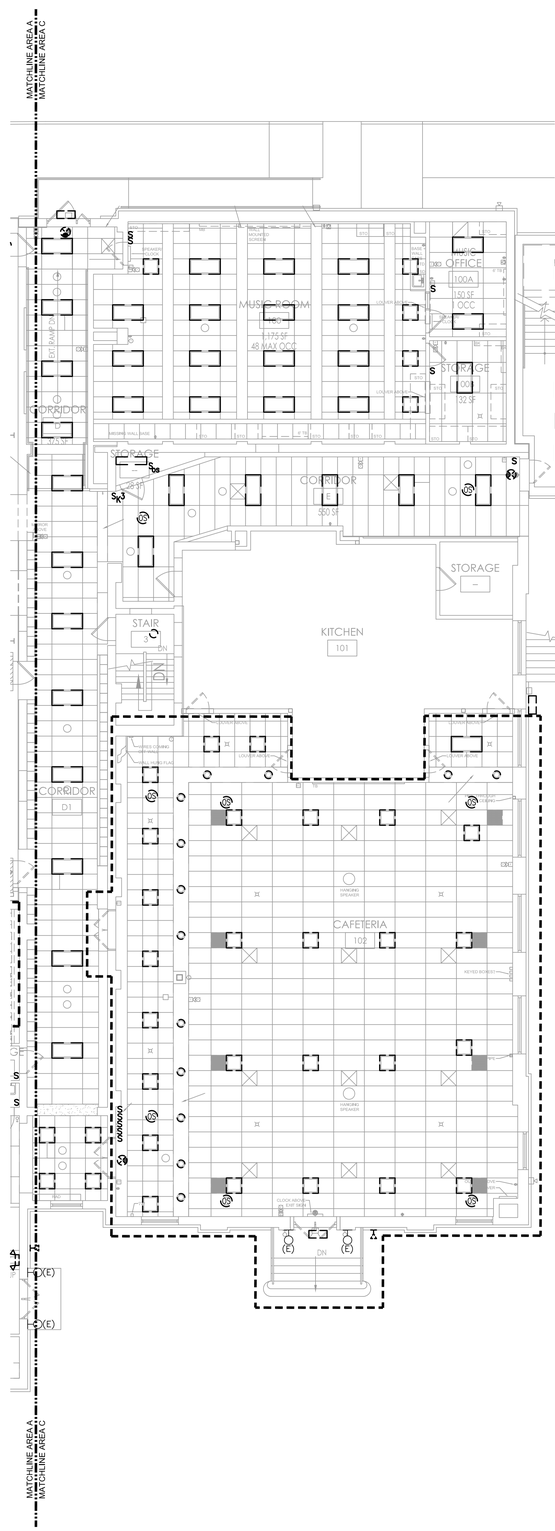

1 LIGHTING DEMOLITION FIRST FLOOR PLAN AREA B

SCALE: 1/8"=1'0"

2 LIGHTING DEMOLITION FIRST FLOOR PLAN AREA C

SCALE: 1/8"=1'0"

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
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RICHARD L. DELP, PE
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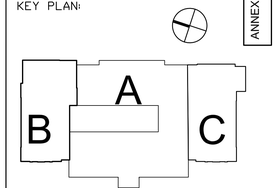
KEY PLAN:



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Drawing Information:

Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:

LIGHTING DEMO 1ST FLR

Sheet No:

ED-101B

Sheet 0 of 000

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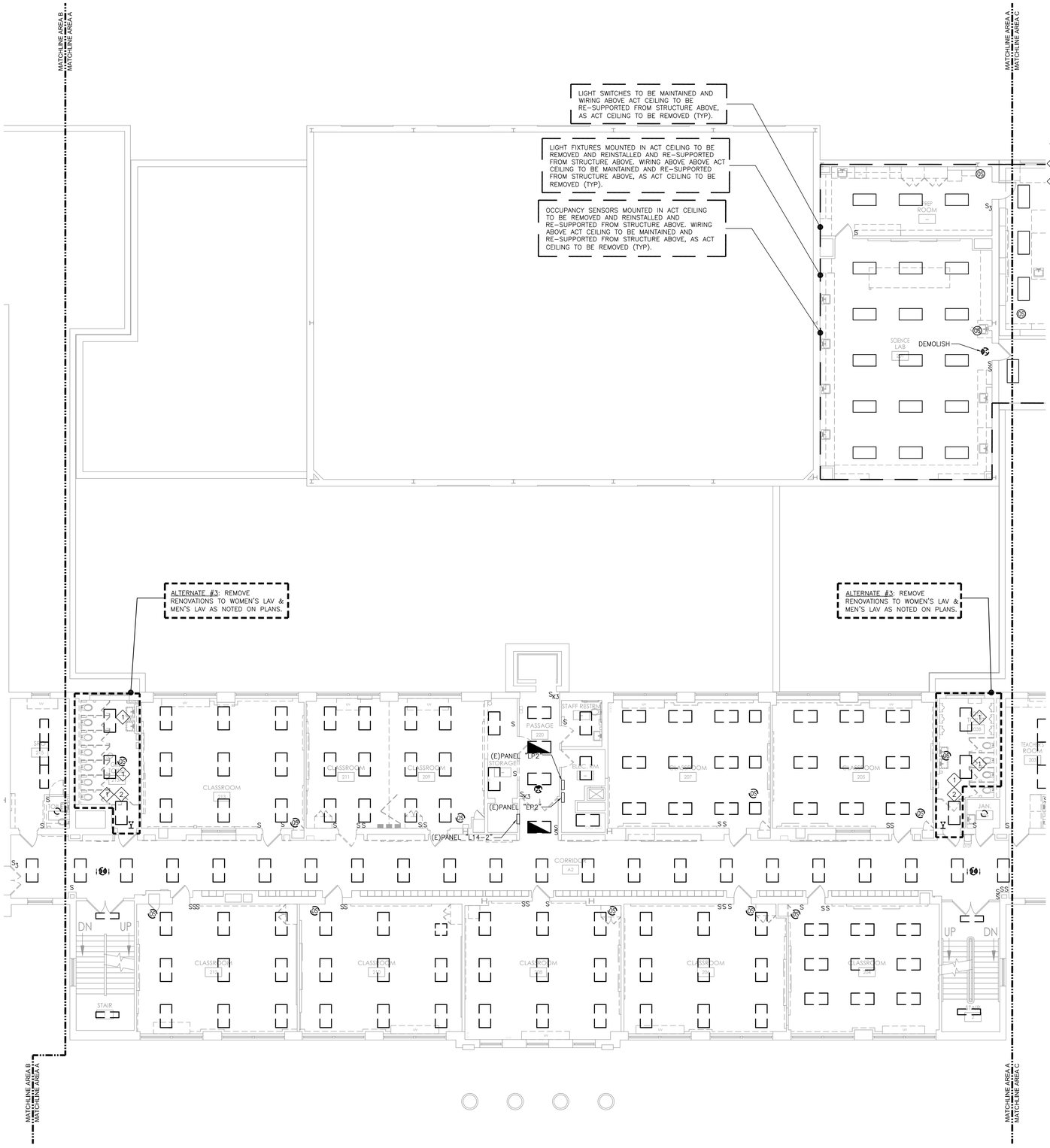

1 LIGHTING DEMOLITION SECOND FLOOR PLAN AREA A

SCALE: 1/8"=1'0"

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KEYED NOTES:

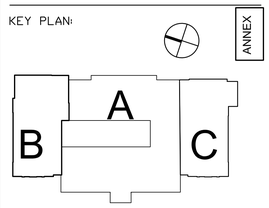
1. REMOVE AND REINSTALL (E)CEILING LIGHTS AS PART OF BASE BID.
2. LIGHT TO BE WIRED TO CORRIDOR NORMAL/EMERGENCY CIRCUIT, AHEAD OF ALL SWITCHING. ON 24/7 FOR SECURITY AS PART OF BASE BID.

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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Richard D. Alderiso , AIA
NJ RA AI 15023, NY RA 027416, PA RA 405474

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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:
LIGHTING DEMO 2ND FLR

Sheet No:
ED-102A
Sheet 0 of 000

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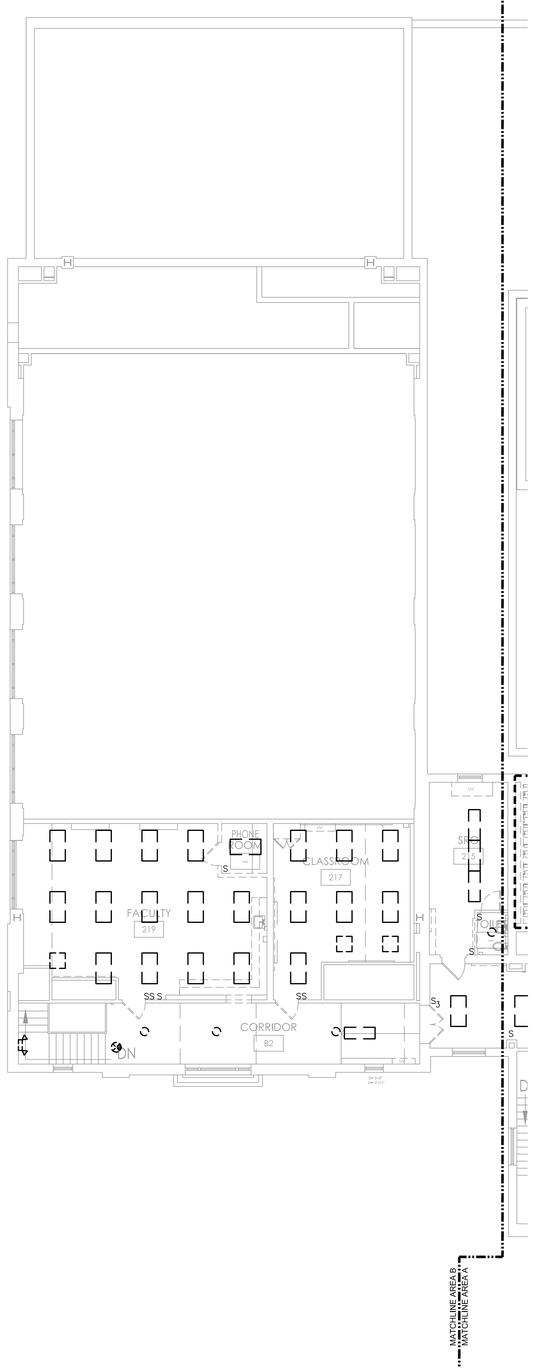
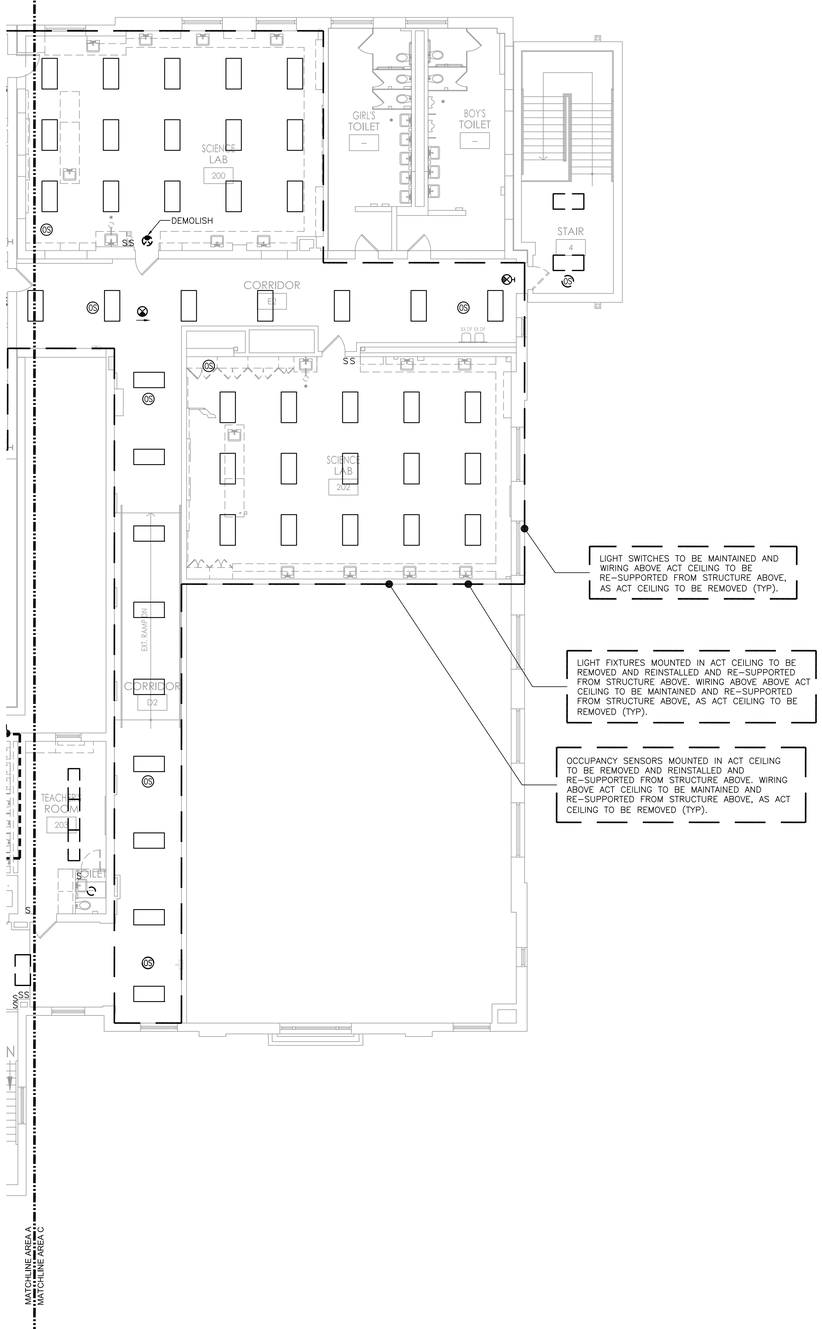


1 LIGHTING DEMOLITION SECOND FLOOR PLAN AREA B
SCALE: 1/8"=1'0"



2 LIGHTING DEMOLITION SECOND FLOOR PLAN AREA C
SCALE: 1/8"=1'0"

M/E/P Engineer:
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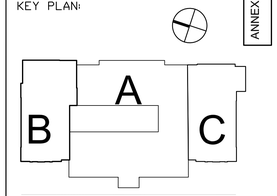
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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NJ RA AI 15023, NY RA 027416, PA RA 405474

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201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
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BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:
LIGHTING DEMO 2ND FLR

Sheet No:
ED-102B
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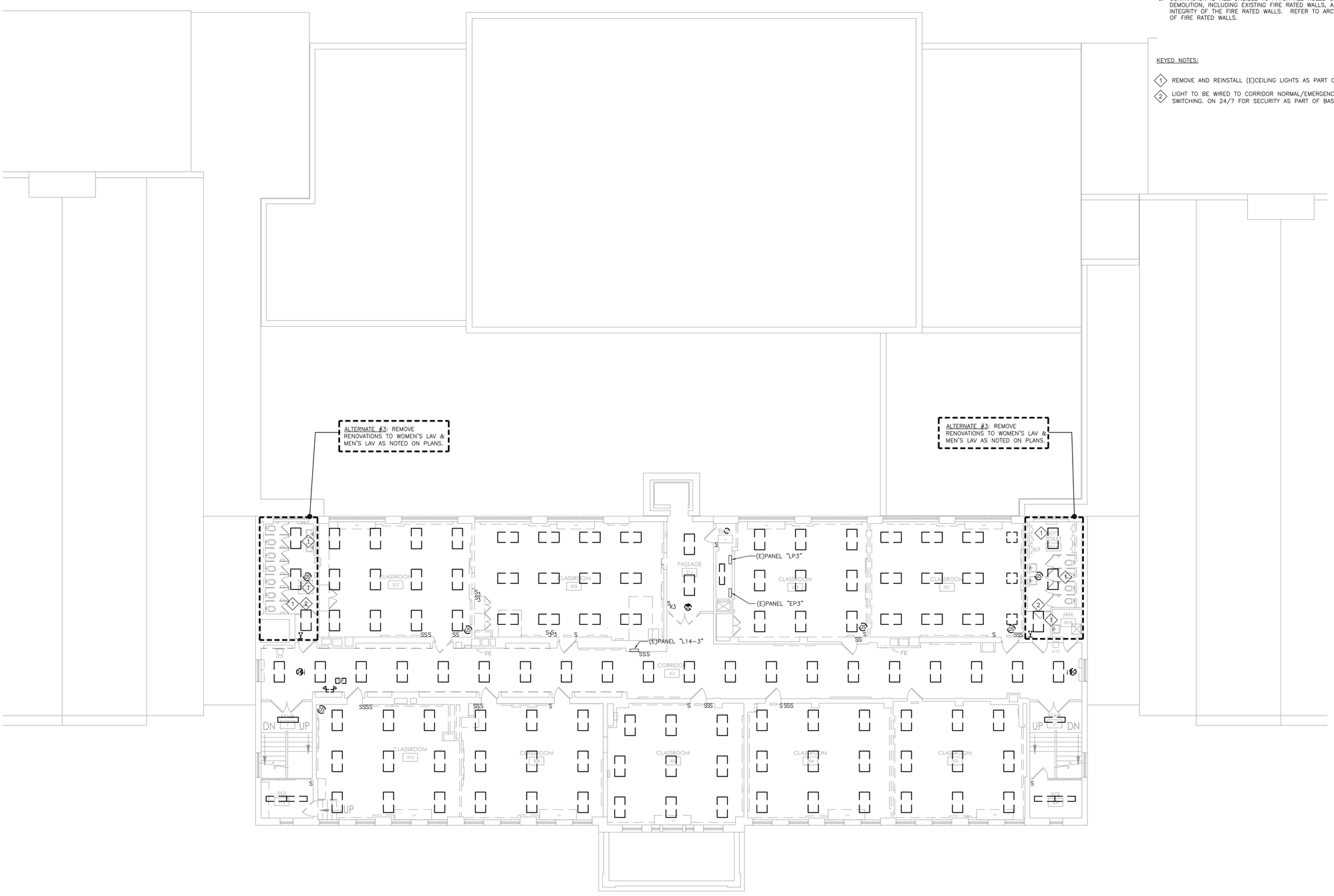

1 LIGHTING DEMOLITION THIRD FLOOR PLAN
SCALE: 1/8"=1'0"

M/E/P Engineer:

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Consulting M/E/P Engineers
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RICHARD L. DELP, PE
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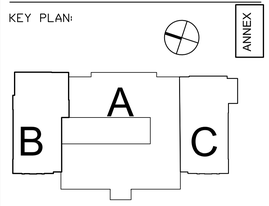

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Drawing Information:
Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:
LIGHTING DEMO 3RD FLR

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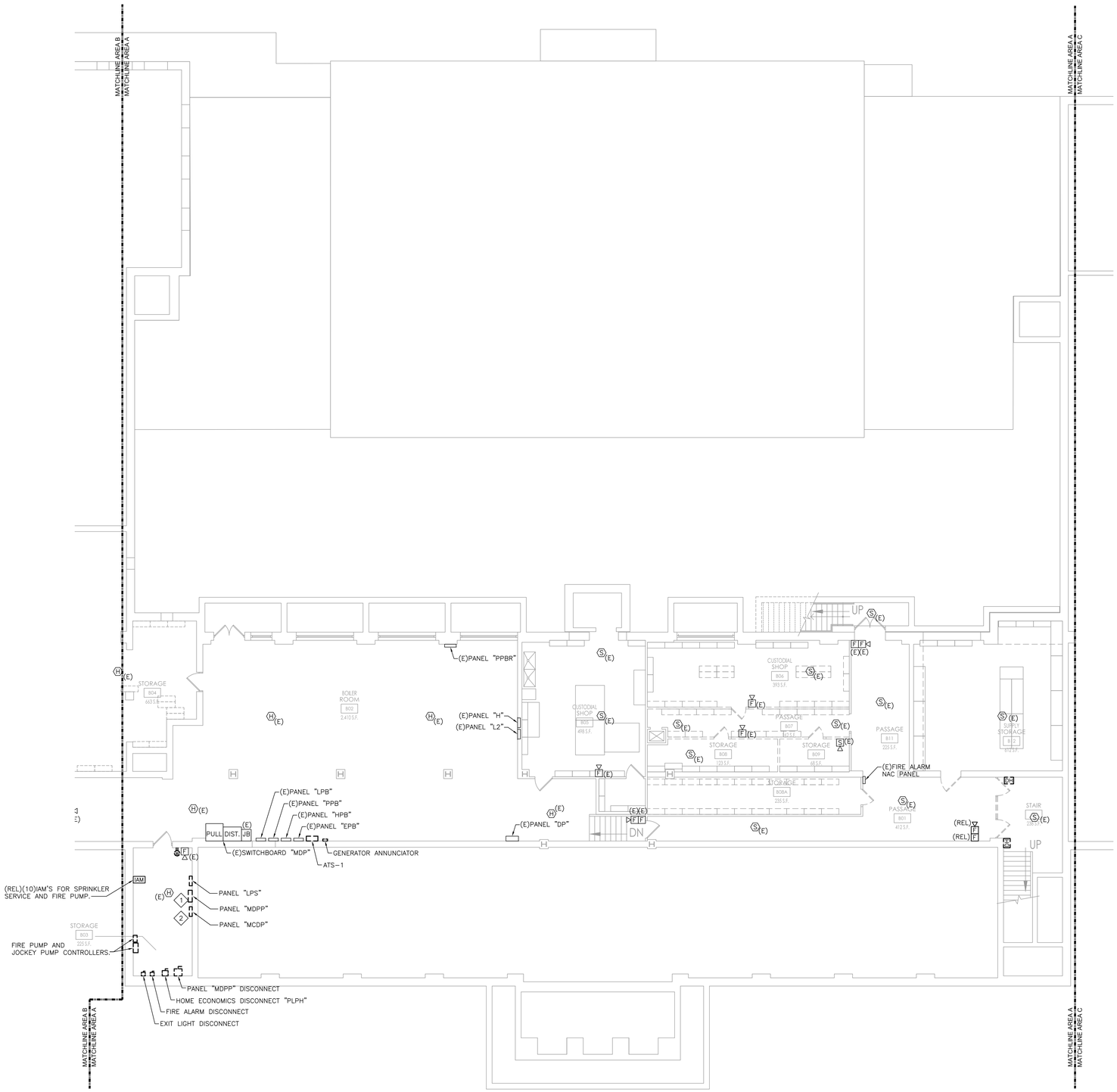

1 POWER/FIRE/TELECOM DEMOLITION BASEMENT FLOOR PLAN AREA A

SCALE: 1/8"=1'0"

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5. CONTRACTOR SHALL IDENTIFY, CLEARLY TAG/MARK, RESUPPORT FROM BUILDING STRUCTURE, AND PROTECT THE FOLLOWING EXISTING WIRING DURING DEMOLITION AND NEW CONSTRUCTION IN THE RENOVATION AREAS:
   A. ALL WIRING ASSOCIATED WITH EXISTING TO REMAIN MECHANICAL EQUIPMENT. COORDINATE WITH MECHANICAL CONTRACTOR TO IDENTIFY ALL MECHANICAL EQUIPMENT TO REMAIN.
   B. ALL TELEPHONE AND DATA CABLING AND DEVICES SHOWN TO BE REMOVED SHALL BE REMOVED BACK TO SOURCE. ALL OTHER TELEPHONE AND DATA CABLING SHALL BE RESUPPORTED FROM STRUCTURE, AND PROTECTED DURING CONSTRUCTION.
   C. ALL LOW-VOLTAGE AND POWER WIRING AND CABLES ASSOCIATED WITH EQUIPMENT IN OTHER AREAS AND OTHER FLOORS THAT IS TO REMAIN OPERATIONAL THROUGHOUT CONSTRUCTION WITHOUT INTERRUPTION OF SERVICE, UNLESS SPECIFICALLY COORDINATED WITH OWNER MINIMUM 14-DAYS IN ADVANCE.
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7. REFER TO MECHANICAL, PLUMBING, AND FIRE PROTECTION DEMOLITION DRAWINGS FOR COMPLETE SCOPE OF EQUIPMENT TO BE DEMOLISHED. EC SHALL REMOVE ALL WIRING AND CONDUIT FOR DEMOLISHED MECHANICAL, PLUMBING, FIRE PROTECTIONG EQUIPMENT BACK TO SOURCE.
8. FIRE ALARM DEVICES SHOWN TO BE REMOVED AND REINSTALLED (RAR) OR RELOCATED (REL), SHALL BE TEMPORARILY REMOVED FROM THE CEILING TILE, THEN RECONNECTED, PROTECTED FROM DUST, AND TEMPORARILY SUPPORTED FROM THE BUILDING STRUCTURE DURING CONSTRUCTION, IN ORDER TO NOT HAVE TO REPROGRAM FIRE ALARM PANEL. DEVICES SHALL BE REINSTALLED IN THE CEILING AFTER MECHANICAL WORK ABOVE CEILING IS COMPLETE. ALL FIRE ALARM DEVICES THAT WERE TEMPORARILY DISCONNECTED SHALL BE RETESTED AFTER REINSTALLATION AT THE COMPLETION OF THE PROJECT.

KEYED NOTES:

1. DEMO PANELBOARD. (E) BRANCH CIRCUIT WIRING TO REMAIN AN BE TERMINATED IN (N) PANEL. SPLICE AND EXTEND WIRING AS NECESSARY FOR TERMINATION IN NEW PANEL.
2. RELOCATE THE FOLLOWING BRANCH CIRCUITS BREAKERS FROM PANEL "MCDP" TO NEW PANEL "LPS": (1)3P-15A, (1)3P-20A, (1)3P-30A, (3)3P-40A, (2)3P-50A, AND (1) 3P-60A CIRCUIT BREAKERS. CONTRACTOR SHALL TRACE EACH CIRCUIT TO DETERMINE LOAD IT SERVES. SPLICE AND EXTEND BRANCH CIRCUIT WIRING AS NECESSARY.

M/E/P Engineer:

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Consulting M/E/P Engineers

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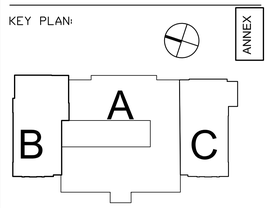
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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NJ RA AI 15023, NY RA 027416, PA RA 405474

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Project:
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202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:
ELEC DEMO BASEMENT

Sheet No:
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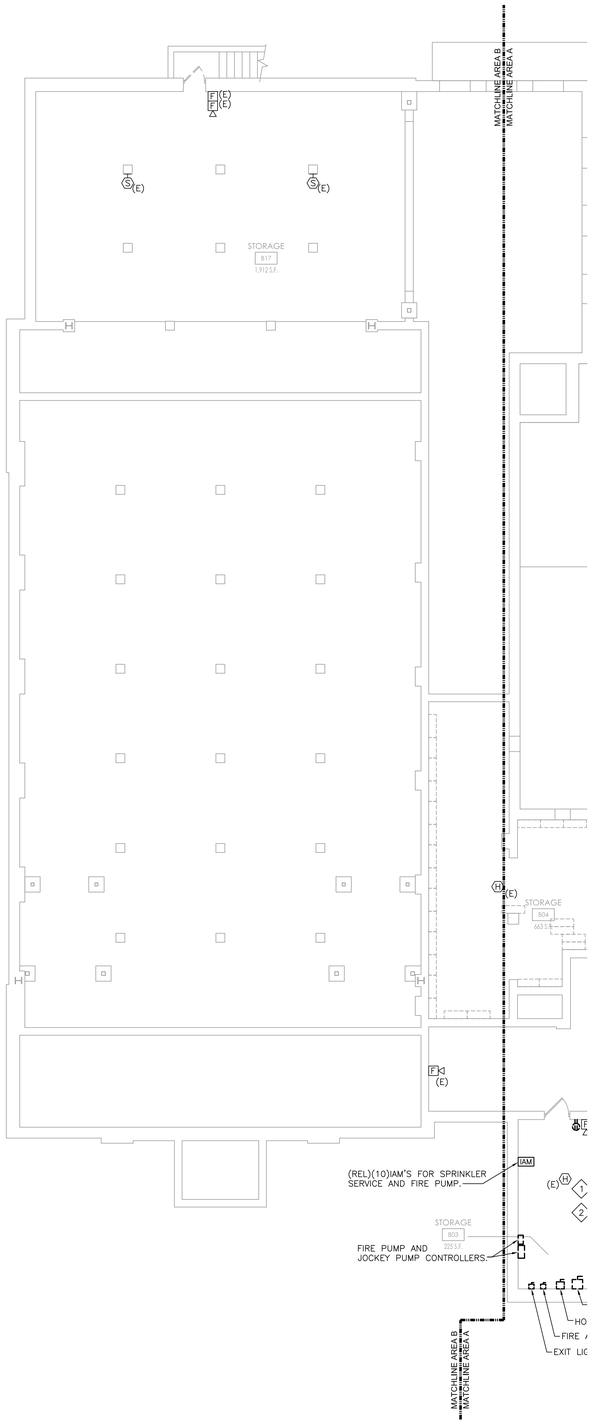
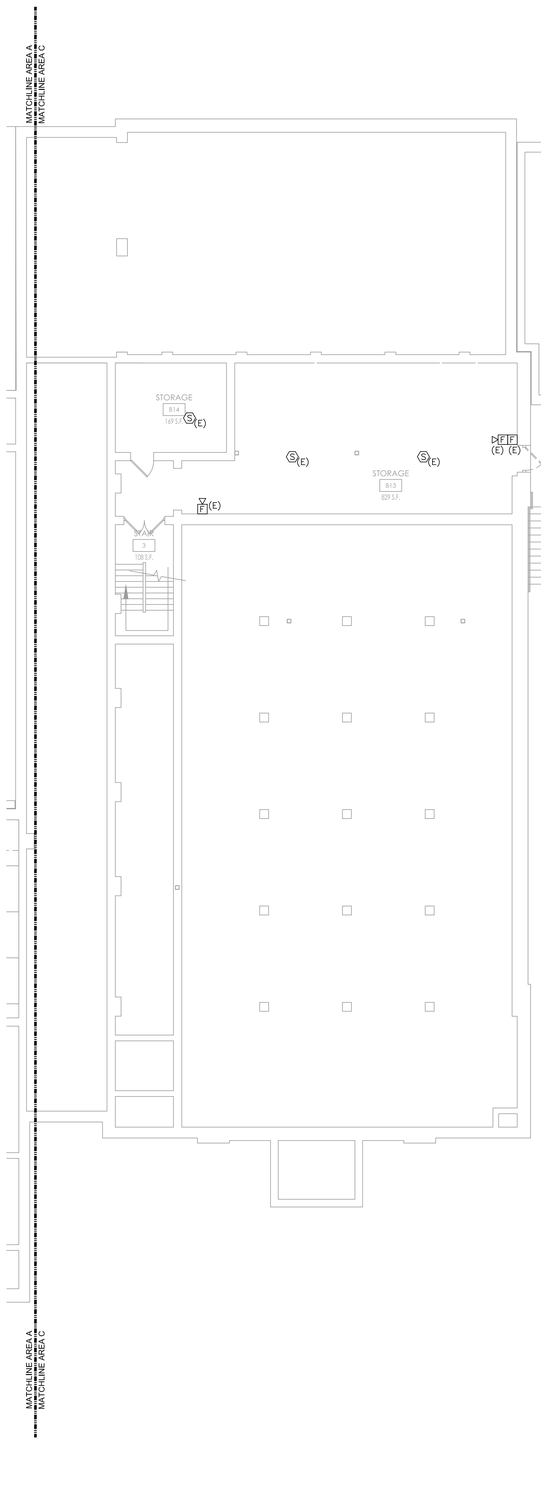


1 **POWER/FIRE/TELECOM DEMOLITION BASEMENT FLOOR PLAN AREA B**
SCALE: 1/8"=1'0"



2 **POWER/FIRE/COMM DEMOLITION BASEMENT FLOOR PLAN AREA C**
SCALE: 1/8"=1'0"

M/E/P Engineer:

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Consulting M/E/P Engineers
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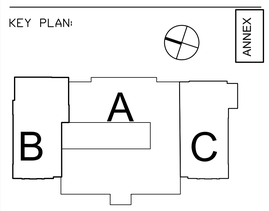
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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Drawn By: JDB
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Sheet Name:
ELEC DEMO BASEMENT

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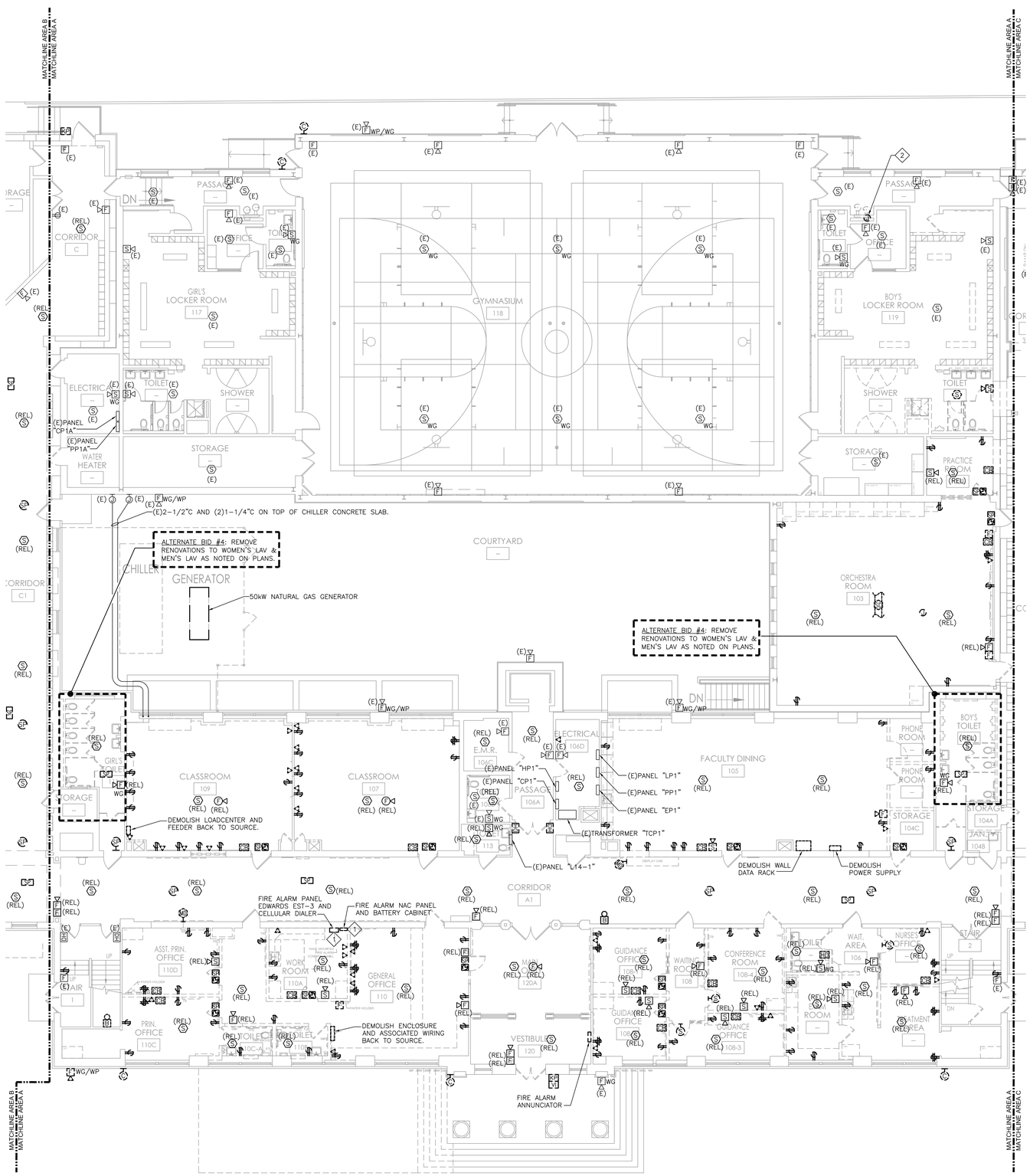

1 POWER/FIRE/TELECOM DEMOLITION FIRST FLOOR PLAN AREA A

SCALE: 1/8"=1'0"

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   B. ALL TELEPHONE AND DATA CABLING AND DEVICES SHOWN TO BE REMOVED SHALL BE REMOVED BACK TO SOURCE. ALL OTHER TELEPHONE AND DATA CABLING SHALL BE RESUPPORTED FROM STRUCTURE, AND PROTECTED DURING CONSTRUCTION.
   C. ALL LOW-VOLTAGE AND POWER WIRING AND CABLES ASSOCIATED WITH EQUIPMENT IN OTHER AREAS AND OTHER FLOORS THAT IS TO REMAIN OPERATIONAL THROUGHOUT CONSTRUCTION WITHOUT INTERRUPTION OF SERVICE, UNLESS SPECIFICALLY COORDINATED WITH OWNER MINIMUM 14-DAYS IN ADVANCE.
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6. CONTRACTOR IS RESPONSIBLE TO PATCH ALL HOLES OR OPENINGS IN EXISTING WALLS AFTER DEMOLITION, INCLUDING EXISTING FIRE RATED WALLS, ABOVE AND BELOW CEILING, TO MAINTAIN INTEGRITY OF THE FIRE RATED WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FIRE RATED WALLS.
7. REFER TO MECHANICAL, PLUMBING, AND FIRE PROTECTION DEMOLITION DRAWINGS FOR COMPLETE SCOPE OF EQUIPMENT TO BE DEMOLISHED. EC SHALL REMOVE ALL WIRING AND CONDUIT FOR DEMOLISHED MECHANICAL, PLUMBING, FIRE PROTECTIONG EQUIPMENT BACK TO SOURCE.
8. FIRE ALARM DEVICES SHOWN TO BE REMOVED AND REINSTALLED (RAR) OR RELOCATED (REL), SHALL BE TEMPORARILY REMOVED FROM THE CEILING TILE, THEN RECONNECTED, PROTECTED FROM DUST, AND TEMPORARILY SUPPORTED FROM THE BUILDING STRUCTURE DURING CONSTRUCTION, IN ORDER TO NOT HAVE TO REPROGRAM FIRE ALARM PANEL. DEVICES SHALL BE REINSTALLED IN THE CEILING AFTER MECHANICAL WORK ABOVE CEILING IS COMPLETE. ALL FIRE ALARM DEVICES THAT WERE TEMPORARILY DISCONNECTED SHALL BE RETESTED AFTER REINSTALLATION AT THE COMPLETION OF THE PROJECT.

KEY NOTES:

1. MAINTAIN FIRE ALARM WIRING TO ANNEX BUILDING, TO BE RELOCATED ABOVE NEW ACT CEILING AND BE SPLICED/EXTEND TO NEW FIRE ALARM PANEL LOCATION. NO FIRE ALARM JUNCTION BOXES TO BE LEFT ON WALLS.
2. MAINTAIN EXISTING WIRING TO BE REUSED FOR NEW DRINKING FOUNTAIN. REFER TO E-201A.

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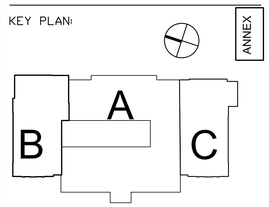
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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Drawing Information:
Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:
ELEC DEMO 1ST FLR

Sheet No:
ED-201A
Sheet 0 of 000

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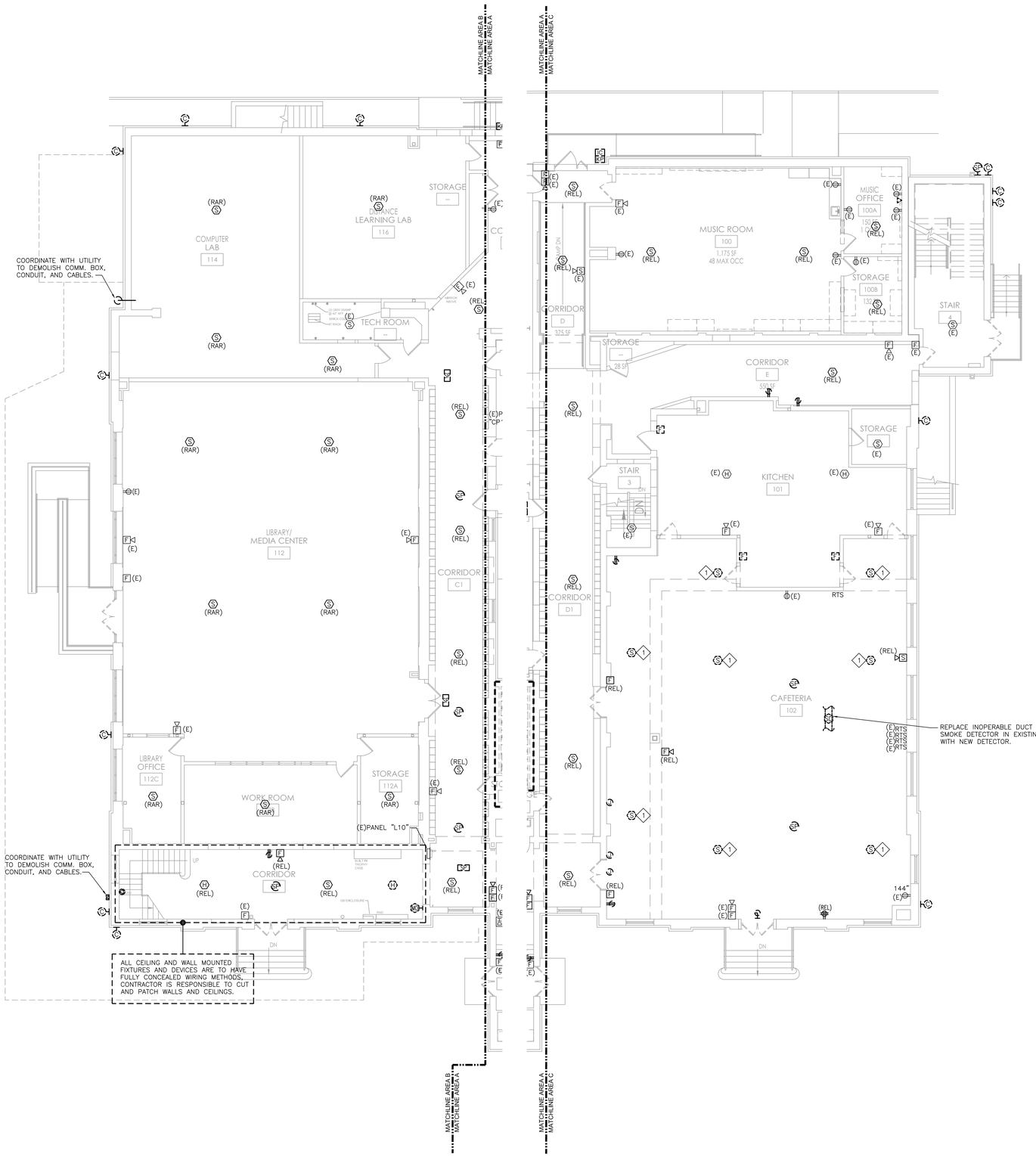

1 POWER/FIRE/TELECOM DEMOLITION FIRST FLOOR PLAN AREA B

SCALE: 1/8"=1'0"

2 POWER/FIRE/TELECOM DEMOLITION FIRST FLOOR PLAN AREA C

SCALE: 1/8"=1'0"

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KEY NOTES:

1. REMOVE FIRE ALARM SMOKE DETECTORS AS SHOWN, AS RENOVATED SPACE TO BE A SHOP AND ACTIVITIES WILL PRODUCE DUST THAT COULD CAUSE FALSE ALARMS WITH SMOKE DETECTOR DEVICES. FIRE ALARM BASES TO REMAIN EXISTING FOR USE WITH NEW HEAT DETECTORS IN SAME LOCATIONS.

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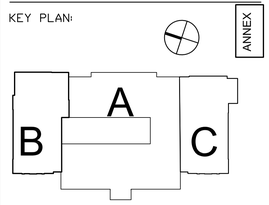

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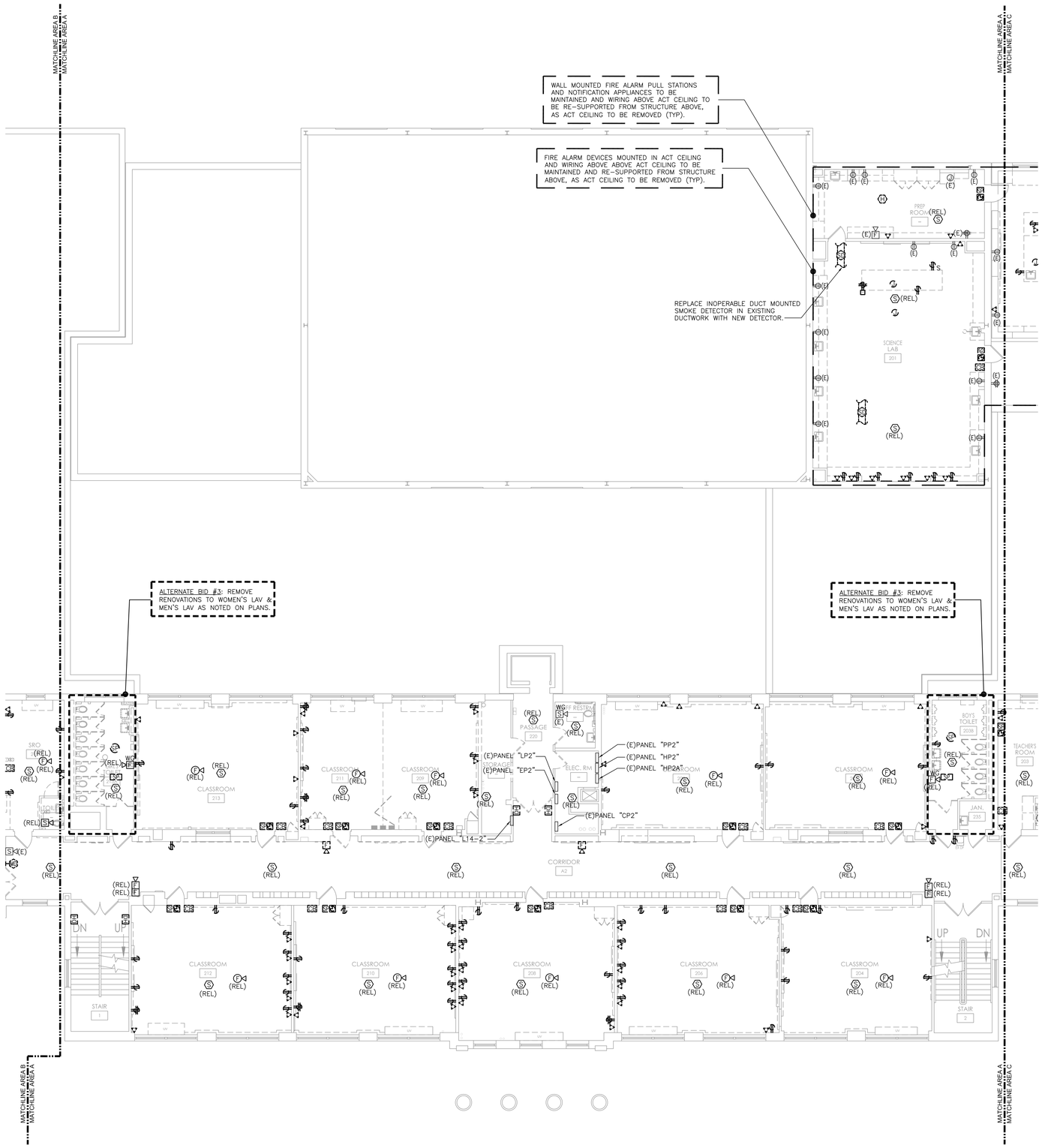

1 POWER/FIRE/TELECOM DEMOLITION SECOND FLOOR PLAN AREA A

SCALE: 1/8"=1'0"

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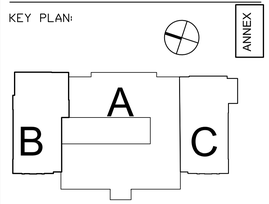

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Glassboro, NJ 08028

Project:

Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
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Glassboro, NJ 08028

Drawing Information:

Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:

ELEC DEMO 2ND FLR

Sheet No:

ED-202A

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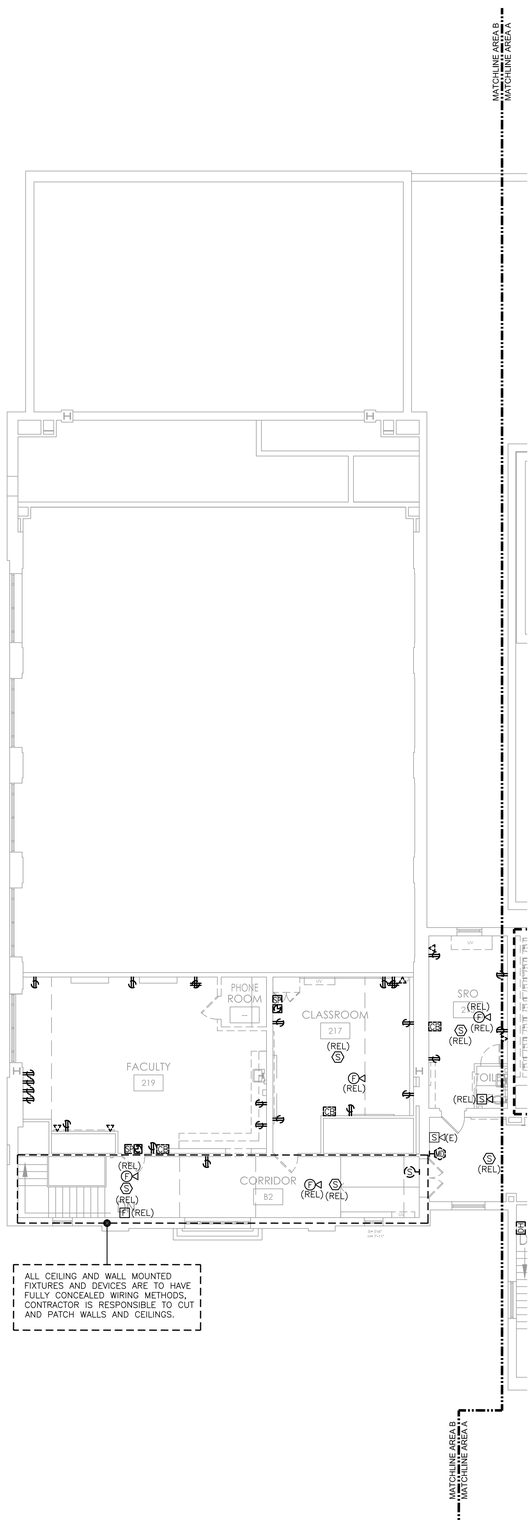
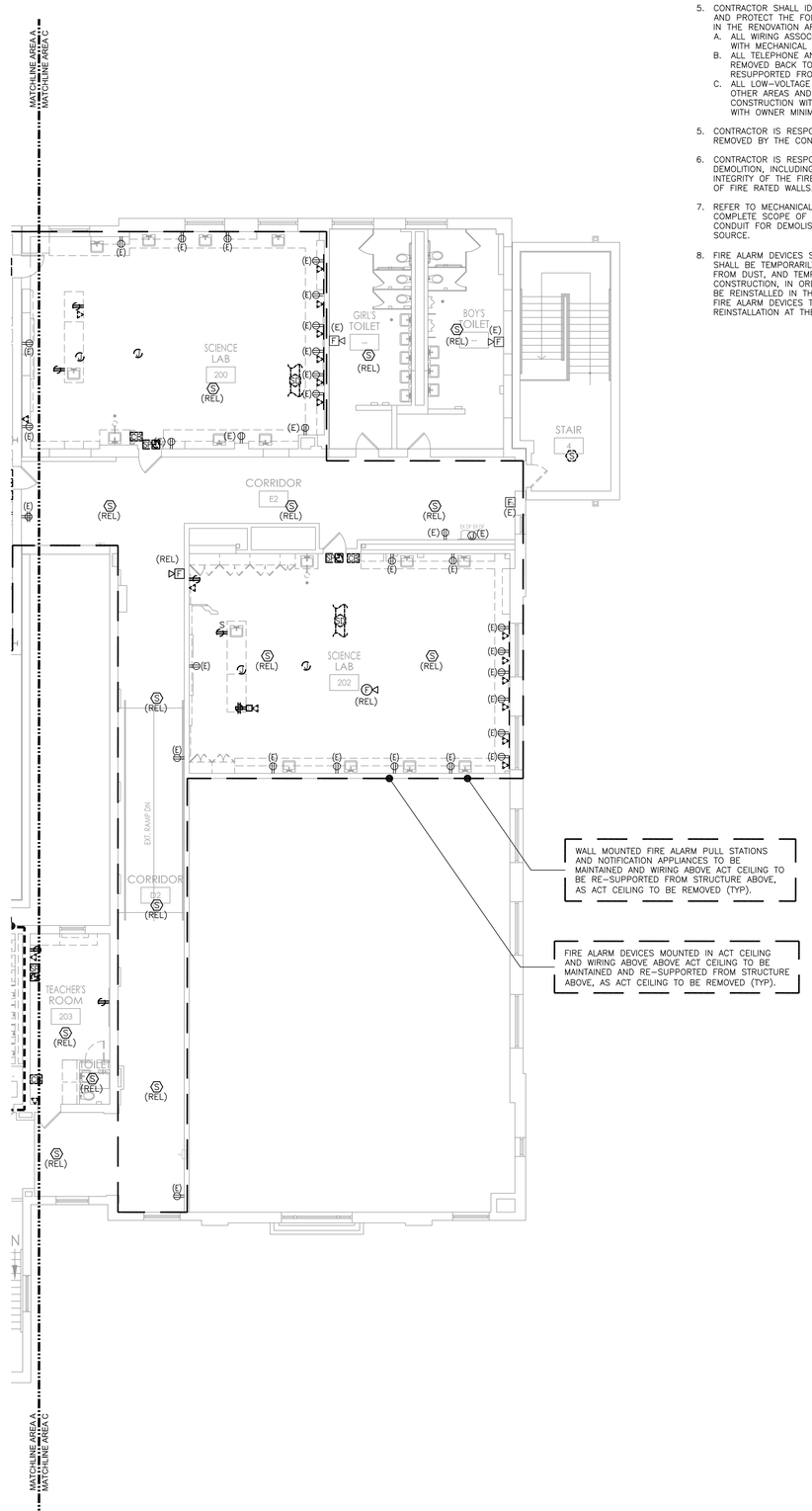


1 **POWER/FIRE/TELECOM DEMOLITION SECOND FLOOR PLAN AREA B**
SCALE: 1/8"=1'0"



2 **POWER/FIRE/TELECOM DEMOLITION SECOND FLOOR PLAN AREA C**
SCALE: 1/8"=1'0"

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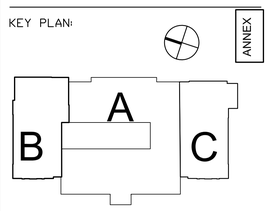

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1 POWER/FIRE/TELECOM DEMOLITION THIRD FLOOR PLAN

SCALE: 1/8"=1'0"

M/E/P Engineer:

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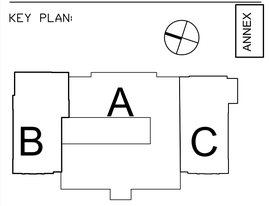

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15 Bethany Street • New Brunswick, NJ 08901 • T:732.249.6242
2400 W Hunting Park Ave., Bldg 9 • Philadelphia, PA 19129-1302 • T: 215.634.3400
Richard D. Alderiso , AIA
NJ RA AI 15023, NY RA 027416, PA RA 405474

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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:
ELEC DEMO 3RD FLR

Sheet No:
ED-203A
Sheet 0 of 000

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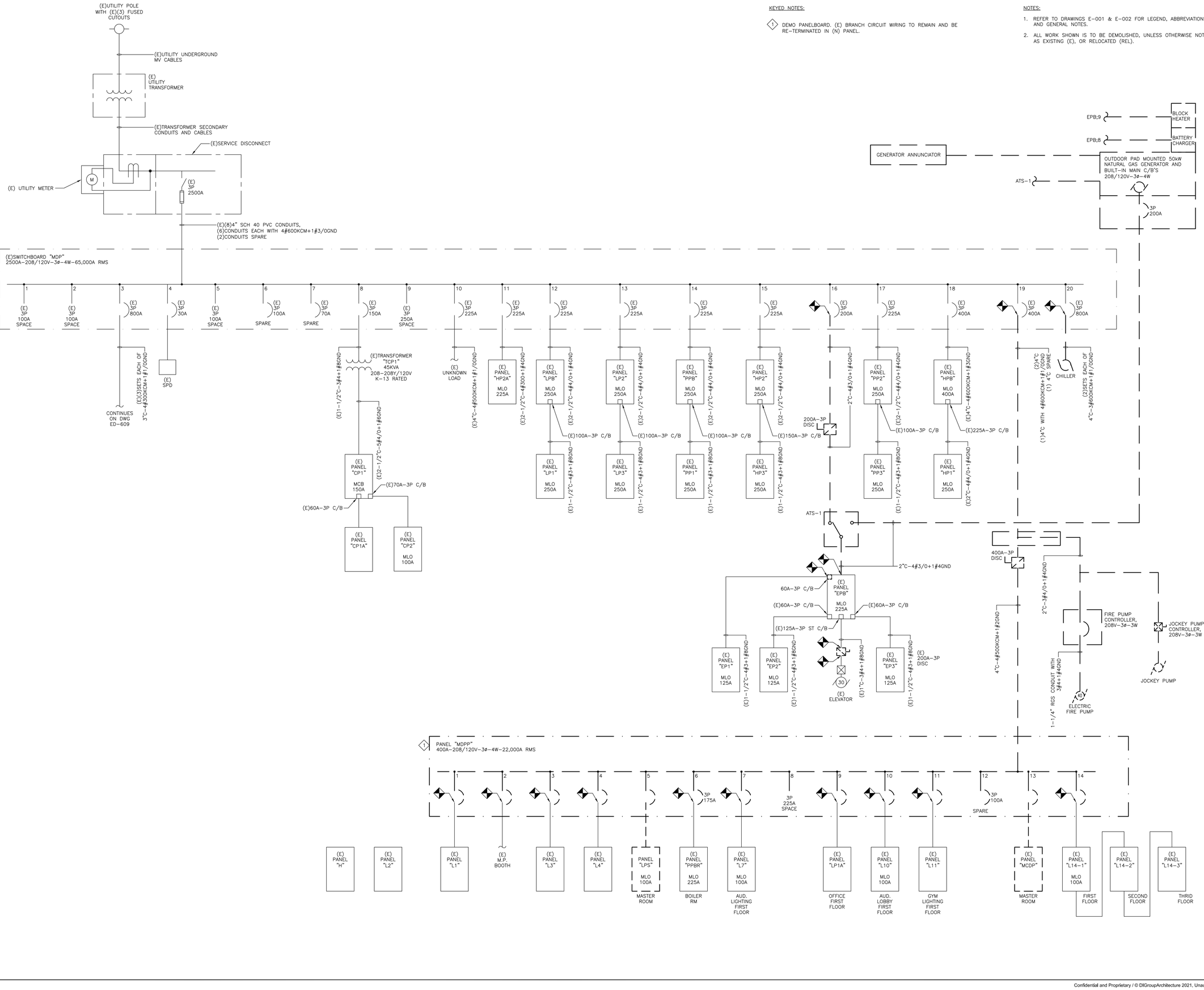
KEYED NOTES:

1. DEMO PANELBOARD. (E) BRANCH CIRCUIT WIRING TO REMAIN AND BE RE-TERMINATED IN (N) PANEL.

NOTES:

1. REFER TO DRAWINGS E-001 & E-002 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. ALL WORK SHOWN IS TO BE DEMOLISHED, UNLESS OTHERWISE NOTED AS EXISTING (E), OR RELOCATED (REL).

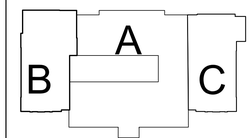


M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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Project No: 25.024
Date:
Drawn By: JDB
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DEMO 1-LINE DIAGRAM

Sheet No:
ED-608
Sheet 0 of 000

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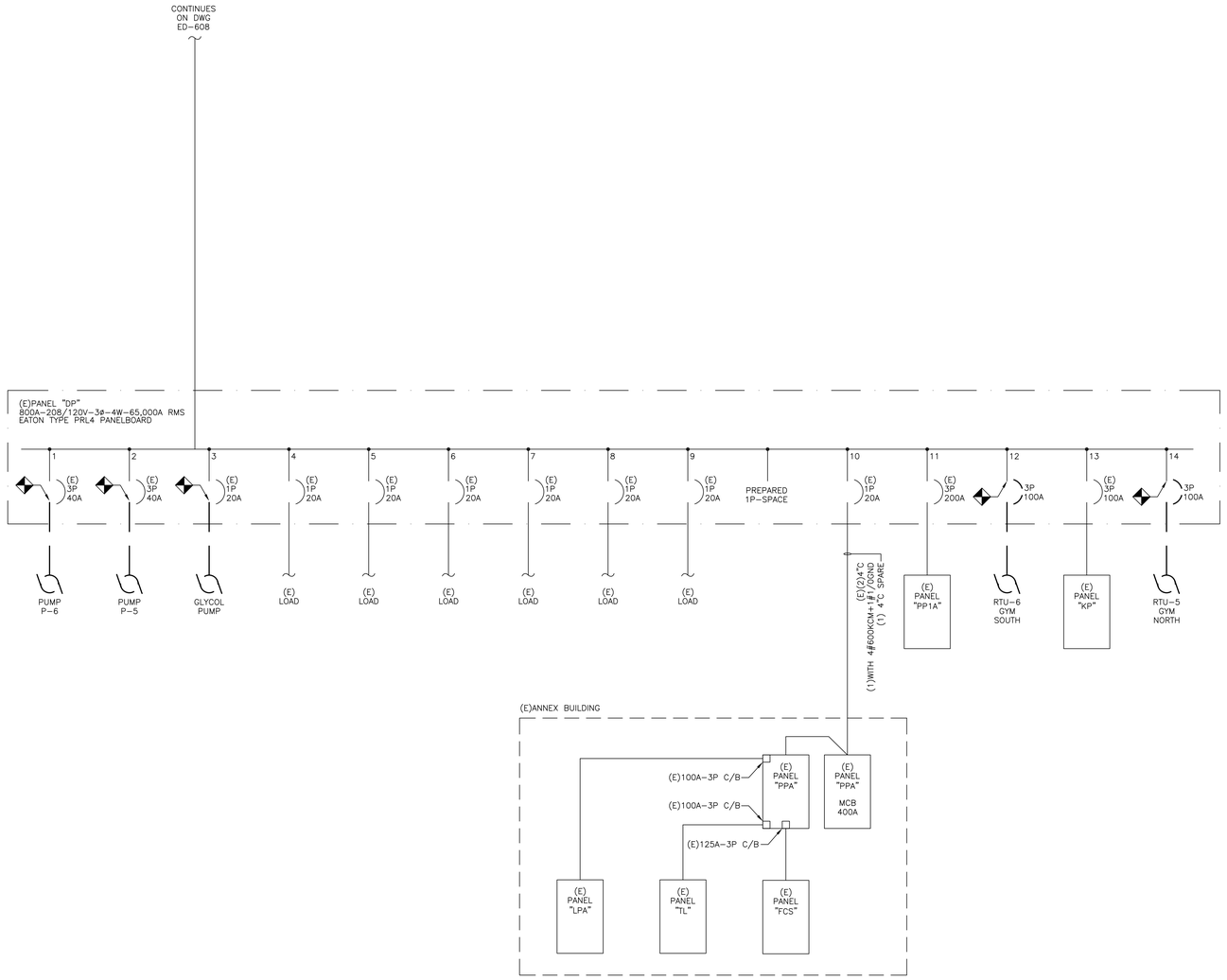

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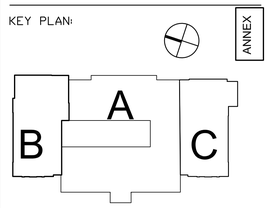

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Drawn By: JDB
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Sheet Name:
DEMO 1-LINE DIAGRAM

Sheet No:
ED-609
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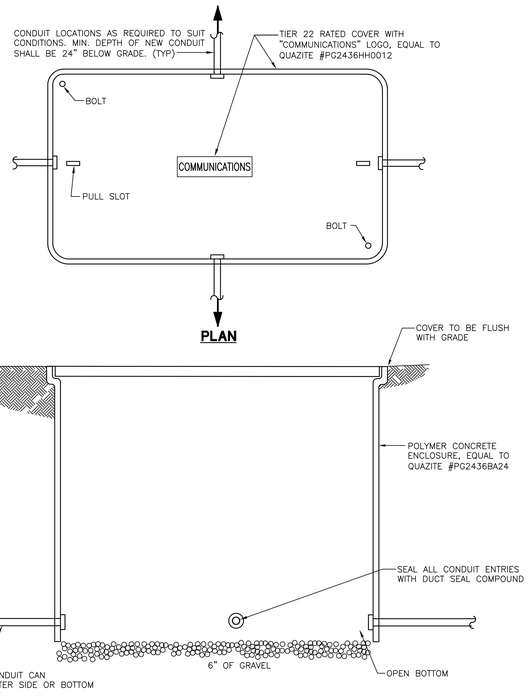
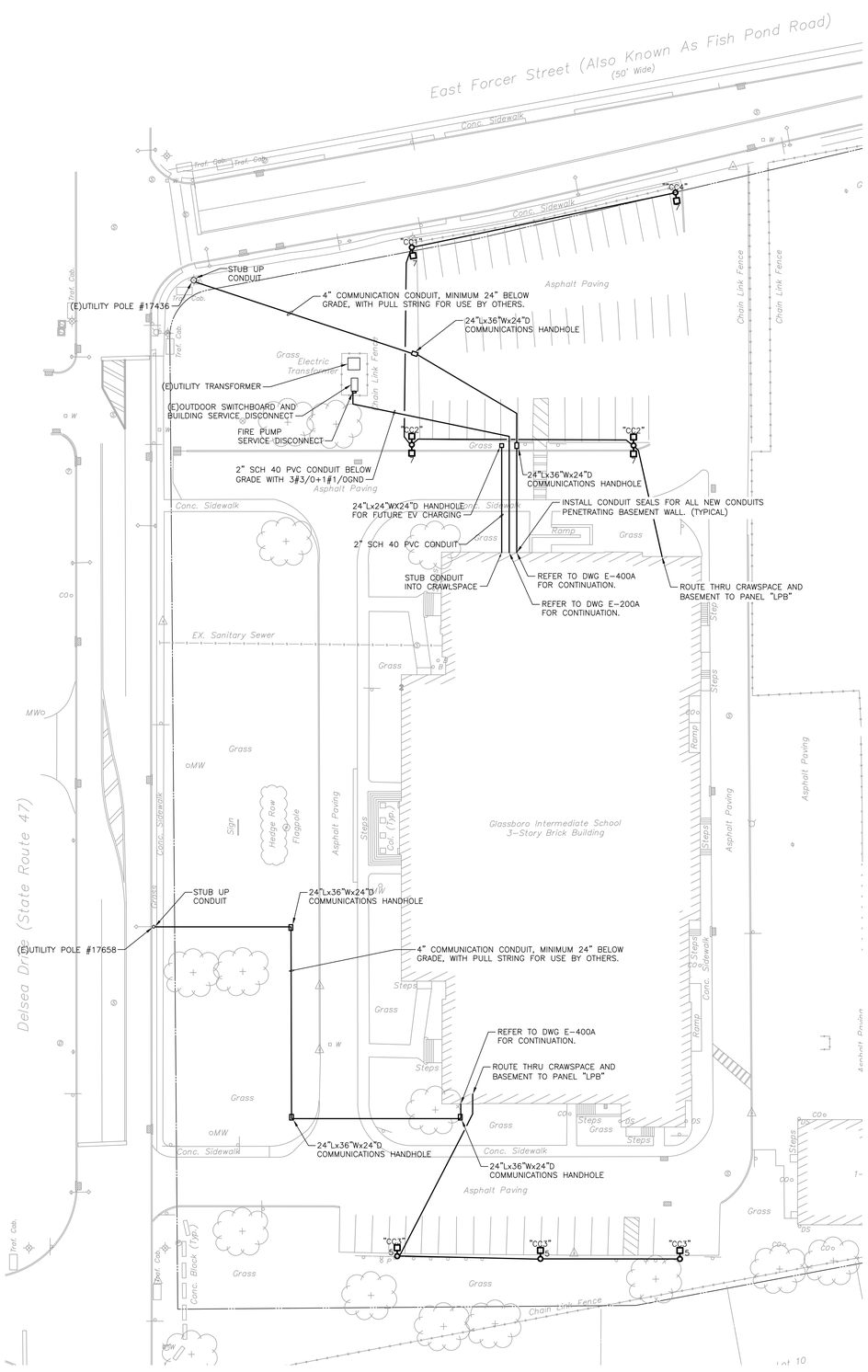


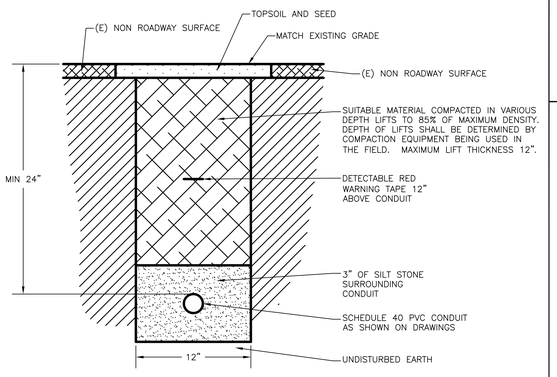
2 HANDHOLE DETAIL
NOT TO SCALE



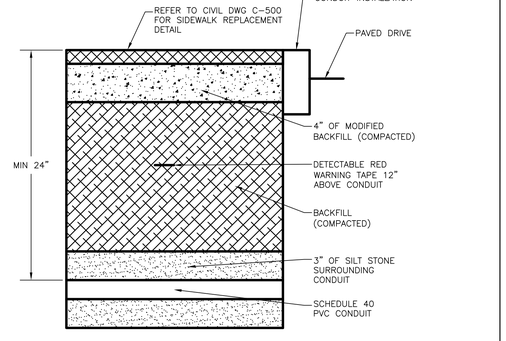
1 ELECTRICAL SITE PLAN
SCALE: 1" = 30'0"

NOTES:

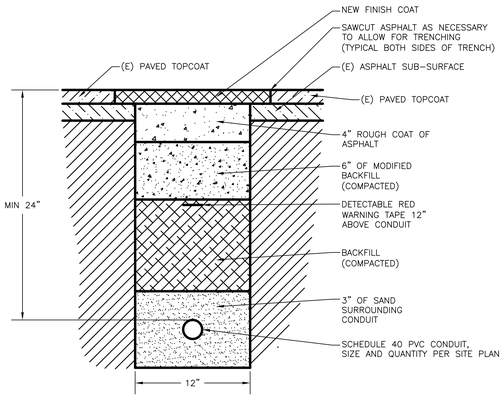
1. REFER TO DRAWINGS E-001 & E-002 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. ALL WORK SHOWN IS TO BE NEW WORK, UNLESS OTHERWISE NOTED AS EXISTING (E), OR RELOCATED (REL).
3. LIGHTING POLE FOUNDATIONS SHALL BE PROVIDED AND INSTALLED BY EC. REFER TO LIGHT POLE FOUNDATION DETAIL ON CIVIL DWG C-500.
4. WIRE ALL SITE LIGHTING WITH 2#8+1#8GND IN MINIMUM 1-1/4" CONDUIT FROM PANEL "LPB", CIRCUITING AS INDICATED. FINAL CONDUIT AND CIRCUIT ROUTING FOR ALL SITE LIGHTING FIXTURES TO BE DETERMINED BY CONTRACTOR IN THE FIELD.
5. ALL CONDUIT SHALL BE SCHEDULE 40 PVC AND MIN 24" BELOW GRADE UNLESS OTHERWISE NOTED. NOT ALL CONDUIT ROUTING IS SHOWN.
6. ALL CONDUIT ENTRIES TO BUILDING SHALL BE SEALED WITH RAYCHEM RAYFLATE SEALING SYSTEM WITHIN 12" OF ENTRY TO BUILDING IN JB TO PREVENT WATER INFILTRATION VIA CONDUITS.



5 TYPICAL NON-ROADWAY CONDUIT TRENCHING DETAIL
NOT TO SCALE



4 CONDUIT BELOW SIDEWALK
NOT TO SCALE



3 CONDUIT BELOW PAVED SURFACE
NOT TO SCALE

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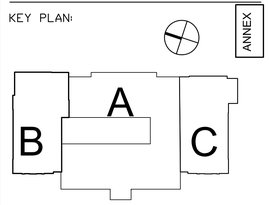
RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:
ELECTRICAL SITE PLAN

Sheet No:
ES-001
Sheet 0 of 000

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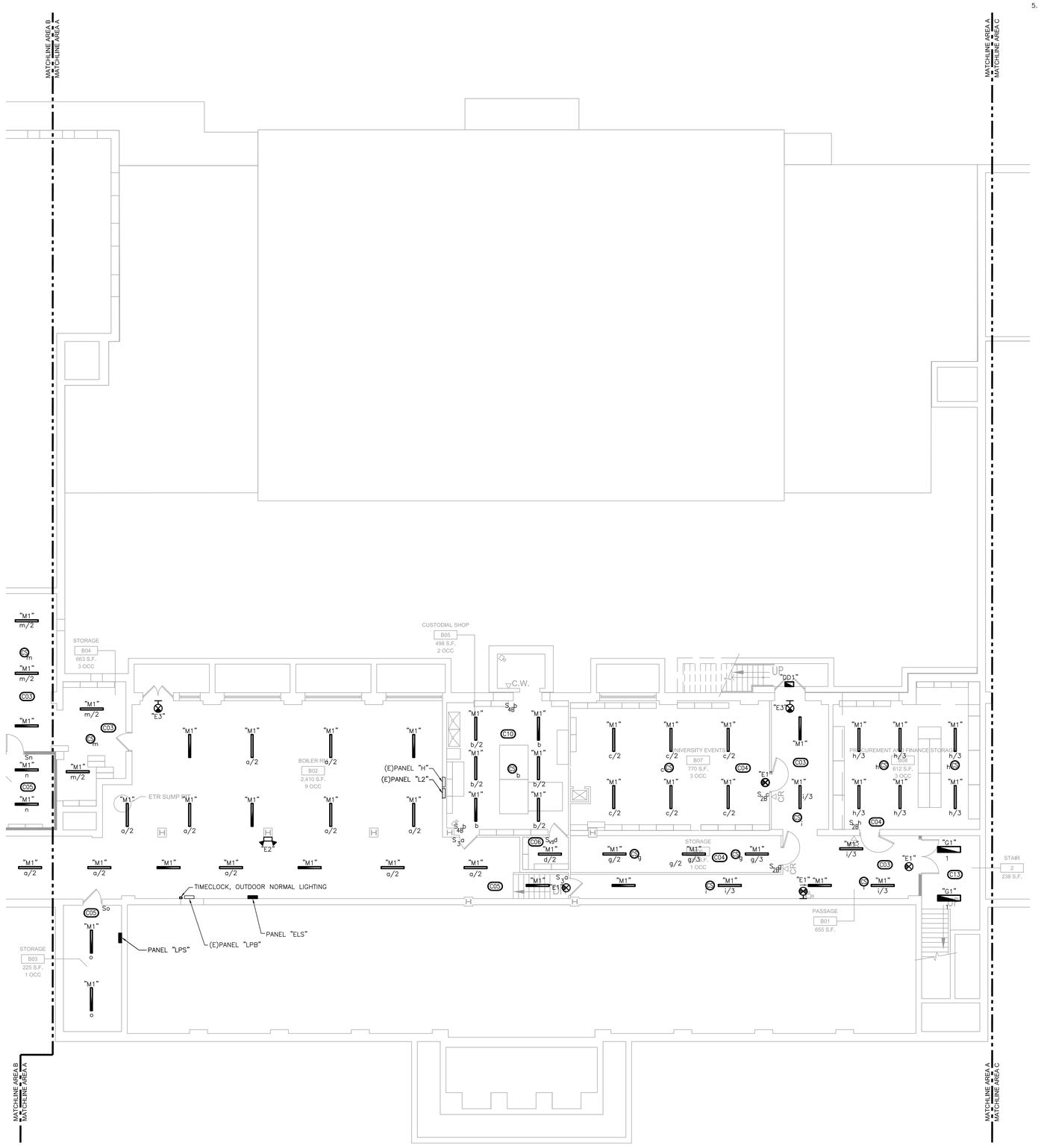
NOTES:

1. REFER TO DRAWINGS E-001 & E-002 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. ALL WORK SHOWN IS TO BE NEW, UNLESS OTHERWISE NOTED.
3. WIRE FIXTURE TYPES "E1" & "E3" TO PANEL "ELS", CIRCUIT #3, AHEAD OF ANY SWITCHING.
4. WIRE NORMAL/EMERGENCY LIGHTING VIA LIGHTING CONTROLS TO PANEL "ELS", CIRCUIT #3. REFER TO LIGHTING CONTROLS SCHEDULE ON DWG E600 FOR ADDITIONAL INFORMATION.
5. WIRE NORMAL LIGHTING VIA LIGHTING CONTROLS TO PANEL "LPB", CIRCUITING AS INDICATED. REFER TO LIGHTING CONTROLS SCHEDULE ON DWG E600 FOR ADDITIONAL INFORMATION.



1 **LIGHTING NEW WORK BASEMENT FLOOR PLAN AREA A**
SCALE: 1/8"=1'0"

M/E/P Engineer:

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Consulting M/E/P Engineers
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RICHARD L. DELP, PE
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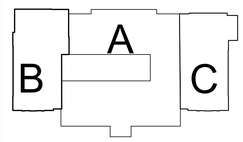
KEY PLAN:



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Drawing Information:
Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:
LIGHTING BASEMENT FLR

Sheet No:
E-100A
Sheet 0 of 000

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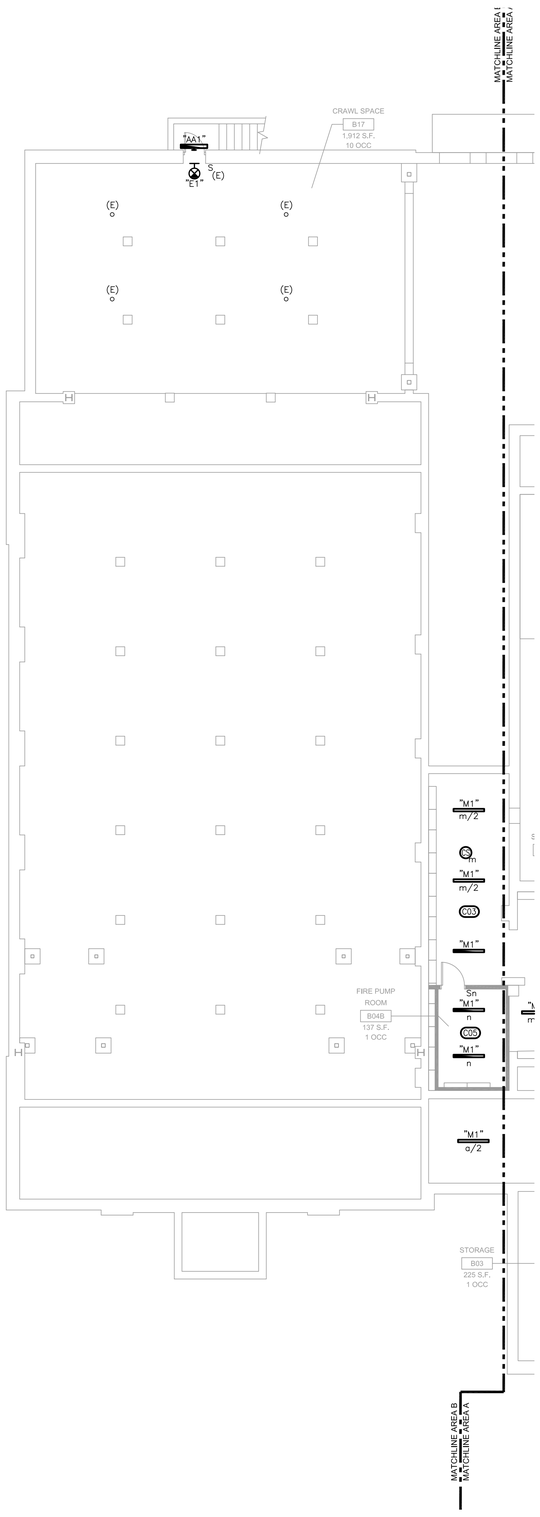
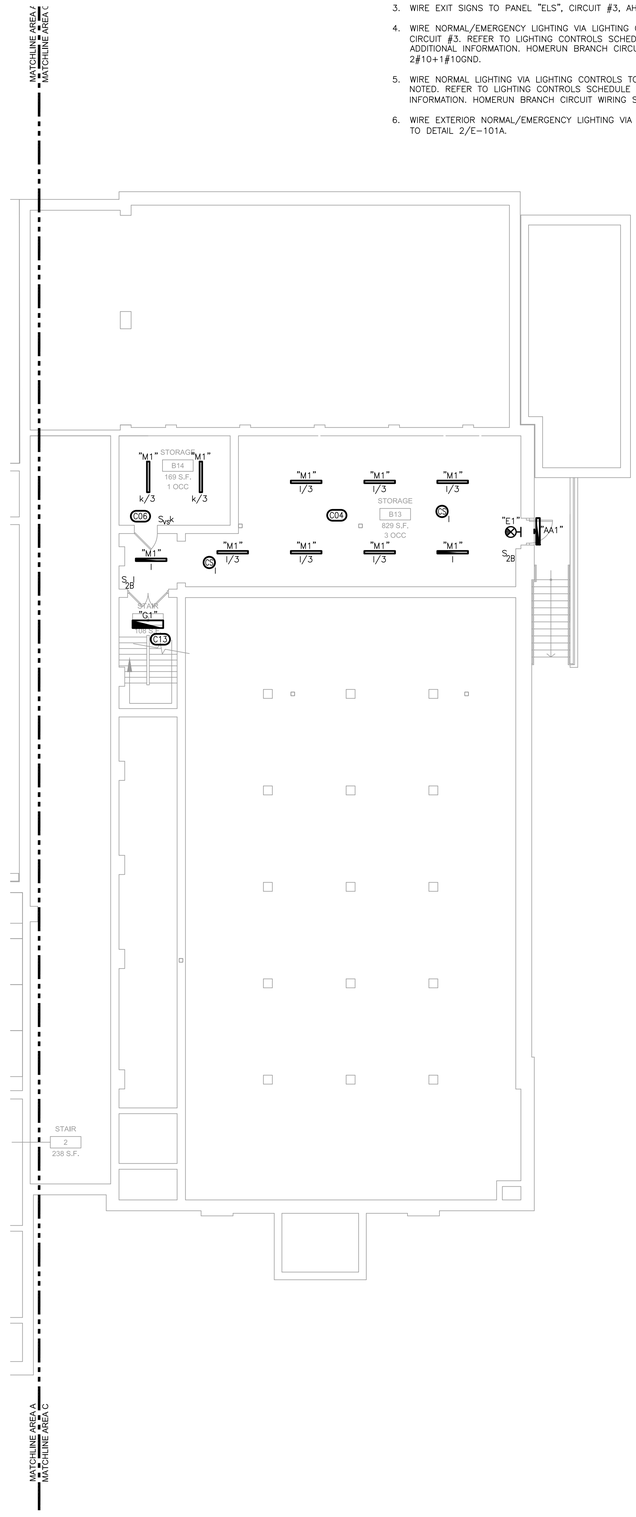
NOTES:

1. REFER TO DRAWINGS E-001 & E-002 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. ALL WORK SHOWN IS TO BE NEW, UNLESS OTHERWISE NOTED.
3. WIRE EXIT SIGNS TO PANEL "ELS", CIRCUIT #3, AHEAD OF ANY SWITCHING.
4. WIRE NORMAL/EMERGENCY LIGHTING VIA LIGHTING CONTROLS TO PANEL "ELS", CIRCUIT #3. REFER TO LIGHTING CONTROLS SCHEDULE ON DWG E600 FOR ADDITIONAL INFORMATION. HOMERUN BRANCH CIRCUIT WIRING SHALL BE 2#10+1#10GND.
5. WIRE NORMAL LIGHTING VIA LIGHTING CONTROLS TO PANEL "LPB", CIRCUITING AS NOTED. REFER TO LIGHTING CONTROLS SCHEDULE ON DWG E600 FOR ADDITIONAL INFORMATION. HOMERUN BRANCH CIRCUIT WIRING SHALL BE 2#10+1#10GND.
6. WIRE EXTERIOR NORMAL/EMERGENCY LIGHTING VIA FAIL-SAFE PHOTOCELL. REFER TO DETAIL 2/E-101A.



1 LIGHTING NEW WORK BASEMENT FLOOR PLAN AREA B
SCALE: 1/8"=1'0"



2 LIGHTING NEW WORK BASEMENT FLOOR PLAN AREA C
SCALE: 1/8"=1'0"

M/E/P Engineer:

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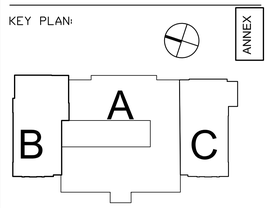

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LIGHTING BASEMENT FLR

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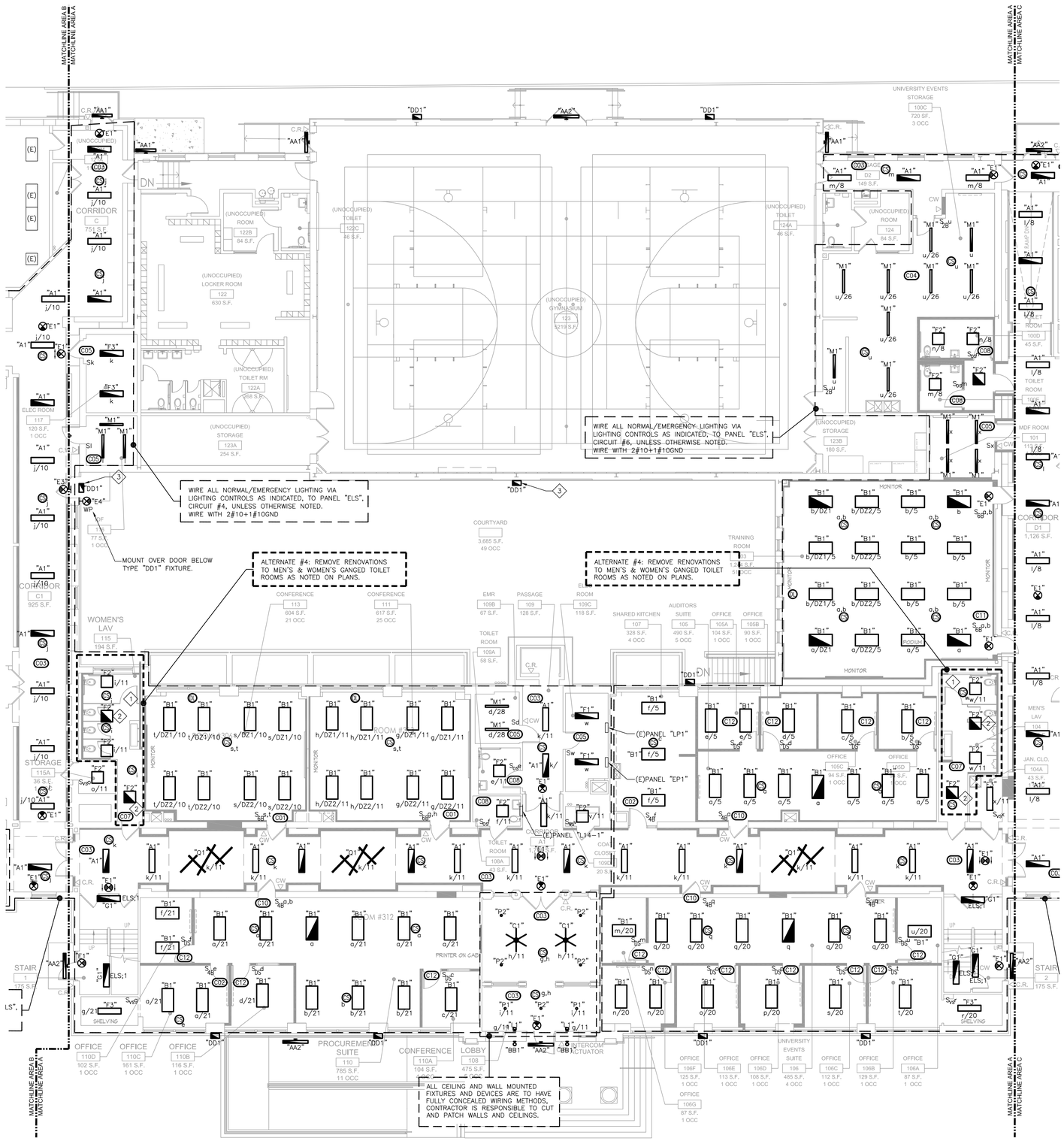
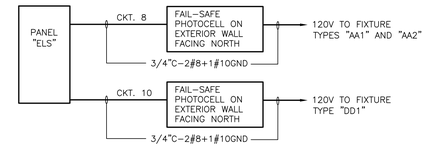


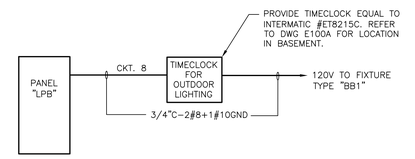
1 LIGHTING NEW WORK FIRST FLOOR PLAN AREA A

SCALE: 1/8"=1'0"

NOTES:

1. REFER TO DRAWINGS E-001 & E-002 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. ALL WORK SHOWN IS TO BE NEW, UNLESS OTHERWISE NOTED.
3. WIRE FIXTURE TYPES "E3" & "E4" TO NORMAL/EMERGENCY LIGHTING CIRCUIT IN SPACE, AHEAD OF ANY SWITCHING. ALL INTERIOR NORMAL/EMERGENCY LIGHTING CIRCUITS SHALL BE WIRED TO PANEL "ELS" IN BASEMENT WITH 2#10+1#10GND FOR VOLTAGE DROP.
4. WIRE NORMAL LIGHTING VIA LIGHTING CONTROLS TO PANEL "LP1", CIRCUITING AS INDICATED. REFER TO LIGHTING CONTROLS SCHEDULE ON DWG E-600 FOR ADDITIONAL INFORMATION.
5. WIRE EXTERIOR NORMAL LIGHTING VIA TIMECLOCK. REFER TO DIAGRAM BELOW.
6. WIRE EXTERIOR NORMAL/EMERGENCY LIGHTING VIA FAIL-SAFE PHOTOCELL. REFER TO DIAGRAM BELOW. \
7. WIRE FIXTURE TYPE E4 TO PANEL "ELS", CKT #8 AHEAD OF ANY SWITCHING.





2 OUTDOOR LIGHTING CONTROL BLOCK DIAGRAMS

SCALE: NOT TO SCALE

KEYED NOTES:

1. REMOVE AND REINSTALL (E)CEILING LIGHTS AS PART OF BASE BID.
2. WIRE (RAR) LIGHT TO CORRIDOR NORMAL/EMERGENCY CIRCUIT, AHEAD OF ALL SWITCHING. ON 24/7 FOR SECURITY AS PART OF BASE BID.
3. MOUNT OVER DEMOLISHED EXIT SIGN OPENING. PROVIDE WATER TIGHT SEAL AROUND EXISTING OPENING.

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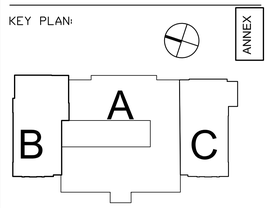
KEY PLAN:



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LIGHTING 1ST FLR

Sheet No:
E-101A
Sheet 0 of 000

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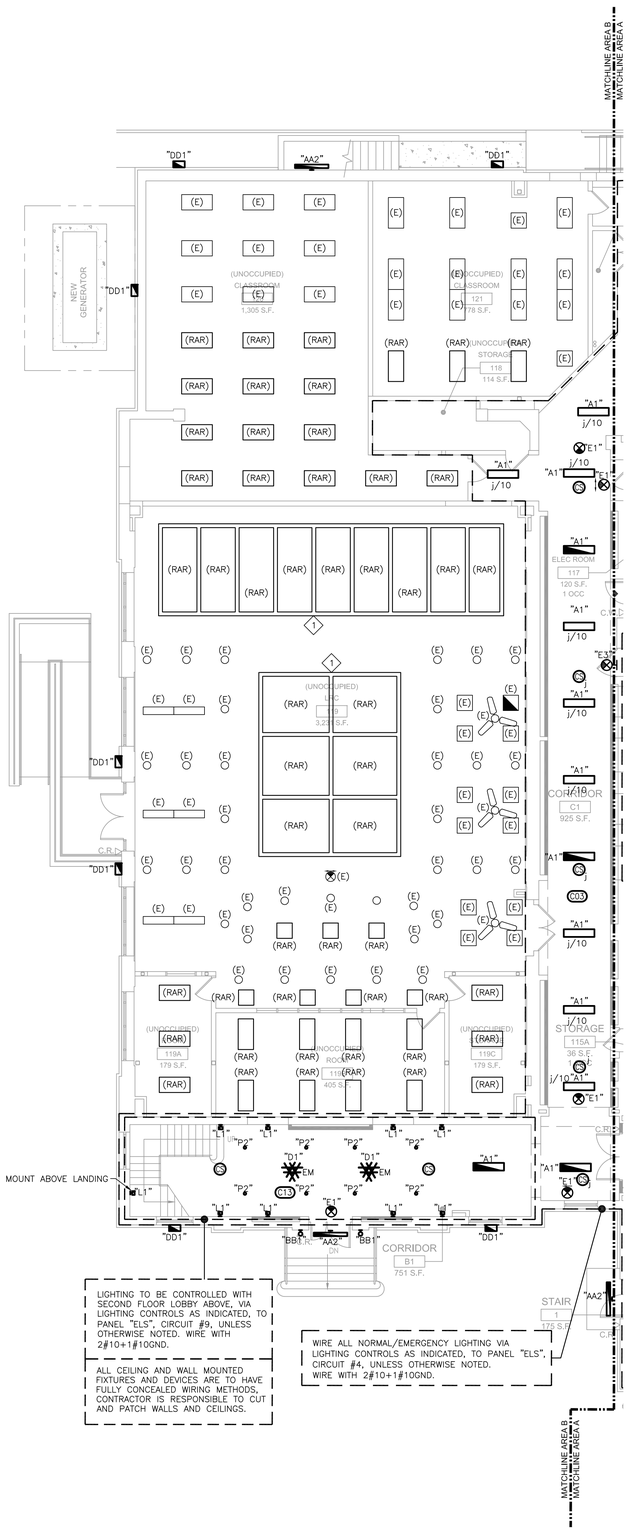
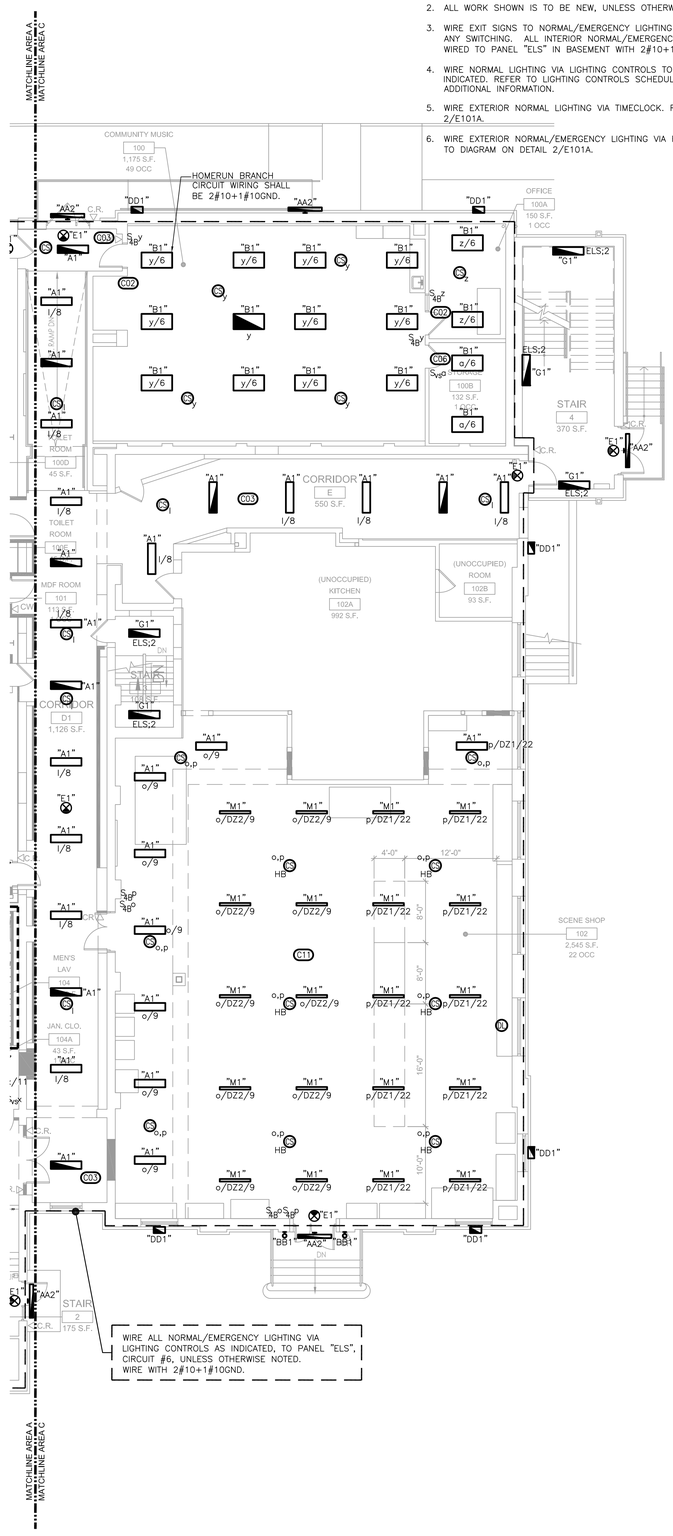
KEYED NOTES:

1 PROVIDE UNISTRUT FRAMING ABOVE CEILING AROUND NEW MECHANICAL DUCT WORK AND ATTACH TO STRUCTURE FOR RE-SUPPORTING PENDANT LIGHT FIXTURES AT SAME LOCATIONS AS NECESSARY. (TYPICAL OF ALL PENDANT FIXTURES)



1 LIGHTING NEW WORK FIRST FLOOR PLAN AREA B
SCALE: 1/8"=1'0"



2 LIGHTING NEW WORK FIRST FLOOR PLAN AREA C
SCALE: 1/8"=1'0"

ROOM #307

NOTES:

1. REFER TO DRAWINGS E-001 & E-002 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. ALL WORK SHOWN IS TO BE NEW, UNLESS OTHERWISE NOTED.
3. WIRE EXIT SIGNS TO NORMAL/EMERGENCY LIGHTING CIRCUIT IN SPACE, AHEAD OF ANY SWITCHING. ALL INTERIOR NORMAL/EMERGENCY LIGHTING CIRCUITS SHALL BE WIRED TO PANEL "ELS" IN BASEMENT WITH 2#10+1#10GND FOR VOLTAGE DROP.
4. WIRE NORMAL LIGHTING VIA LIGHTING CONTROLS TO PANEL "LP1", CIRCUITING AS INDICATED. REFER TO LIGHTING CONTROLS SCHEDULE ON DWG E-600 FOR ADDITIONAL INFORMATION.
5. WIRE EXTERIOR NORMAL LIGHTING VIA TIMECLOCK. REFER TO DIAGRAM ON DETAIL 2/E101A.
6. WIRE EXTERIOR NORMAL/EMERGENCY LIGHTING VIA FAIL-SAFE PHOTOCELL. REFER TO DIAGRAM ON DETAIL 2/E101A.

M/E/P Engineer:
SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
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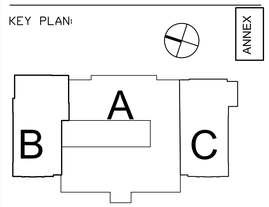
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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NJ RA AI 15023, NY RA 027416, PA RA 405474

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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JDB
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Sheet Name:
LIGHTING 1ST FLR

Sheet No:
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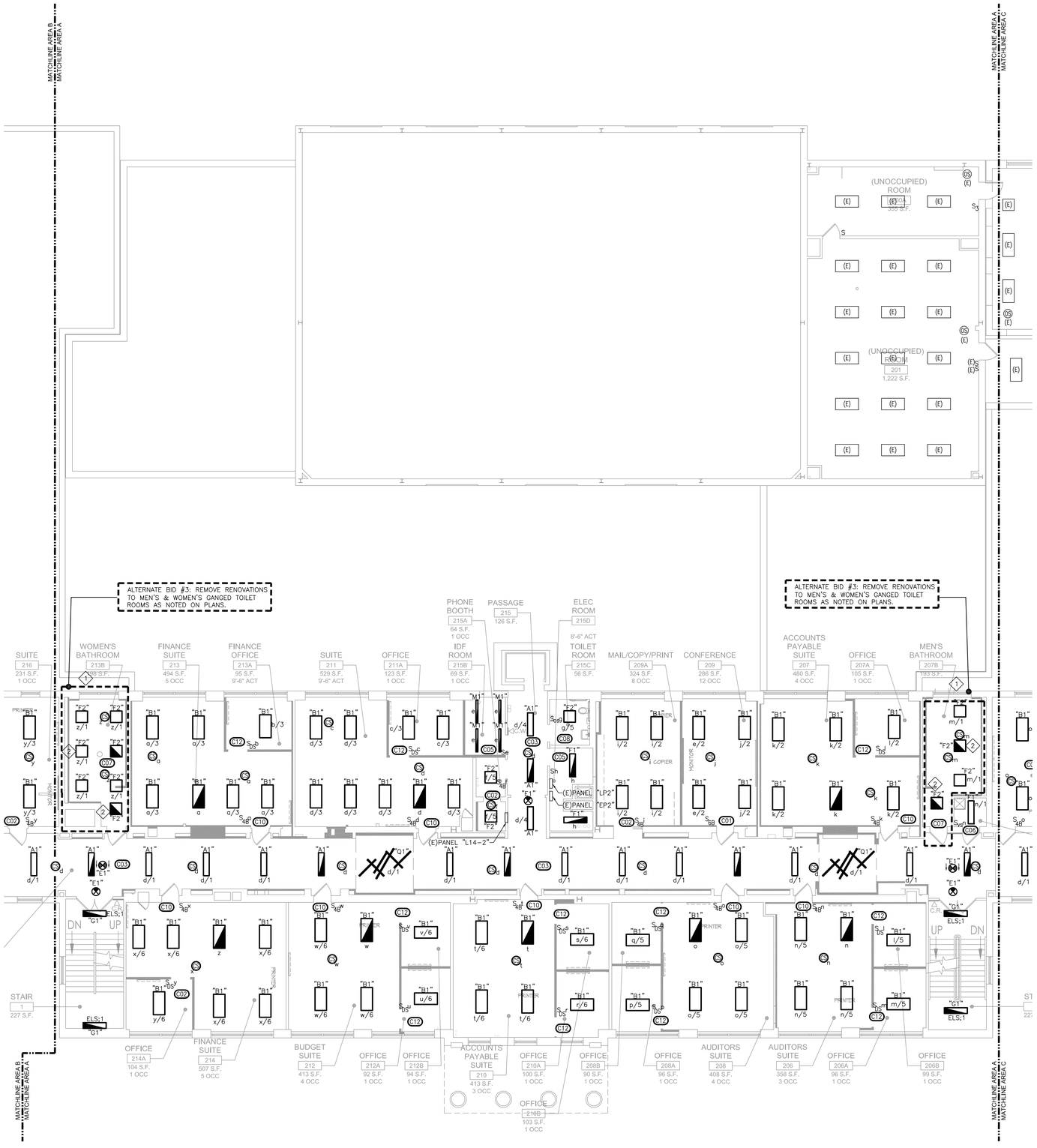


1 LIGHTING NEW WORK SECOND FLOOR PLAN AREA A

SCALE: 1/8"=1'0"

NOTES:

1. REFER TO DRAWINGS E-001 & E-002 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. ALL WORK SHOWN IS TO BE NEW, UNLESS OTHERWISE NOTED.
3. WIRE EXIT SIGNS TO PANEL "ELS", CIRCUIT #5, AHEAD OF ANY SWITCHING.
4. WIRE NORMAL/EMERGENCY LIGHTING VIA LIGHTING CONTROLS TO PANEL "ELS", CIRCUIT #5. REFER TO LIGHTING CONTROLS SCHEDULE ON DWG E-600 FOR ADDITIONAL INFORMATION.
5. WIRE NORMAL LIGHTING VIA LIGHTING CONTROLS TO PANEL "LP2", CIRCUITING AS INDICATED. REFER TO LIGHTING CONTROLS SCHEDULE ON DWG E-600 FOR ADDITIONAL INFORMATION.

KEYED NOTES:

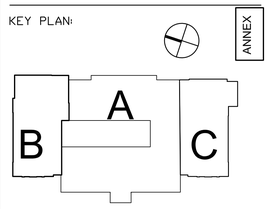
1. REMOVE AND REINSTALL (E)CEILING LIGHTS AS PART OF BASE BID.
2. WIRE (RAR)LIGHT TO CORRIDOR NORMAL/EMERGENCY CIRCUIT, AHEAD OF ALL SWITCHING. ON 24/7 FOR SECURITY AS PART OF BASE BID.

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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NJ RA AI 15023, NY RA 027416, PA RA 405474

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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:
LIGHTING 2ND FLR

Sheet No:
E-102A
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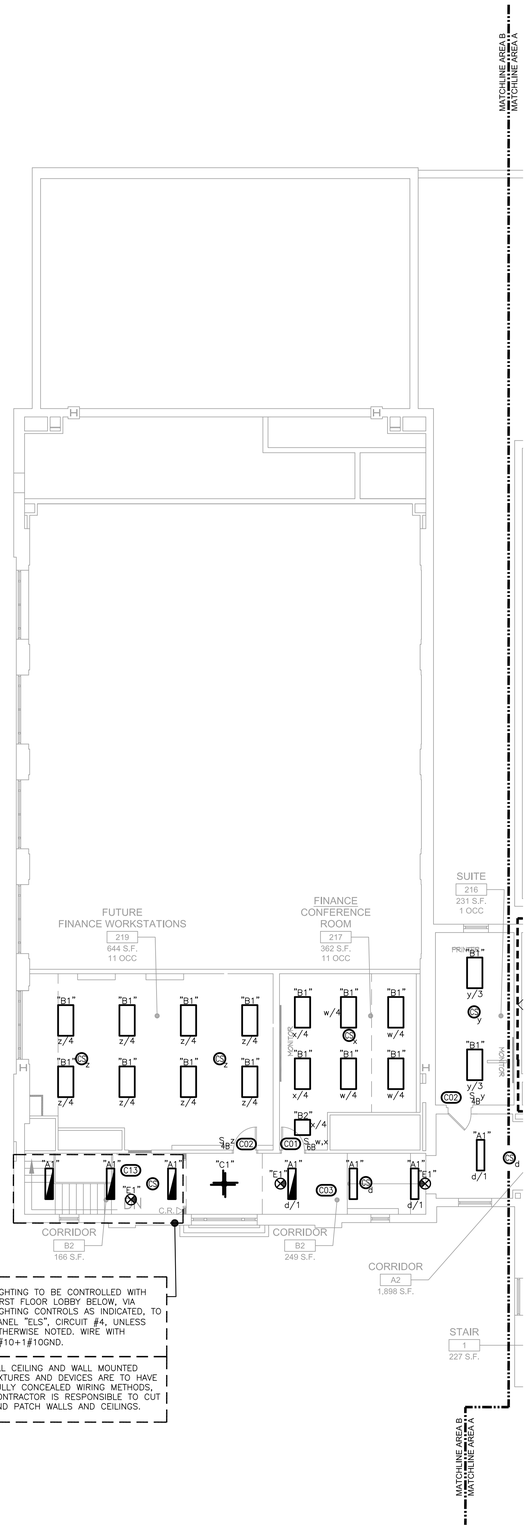
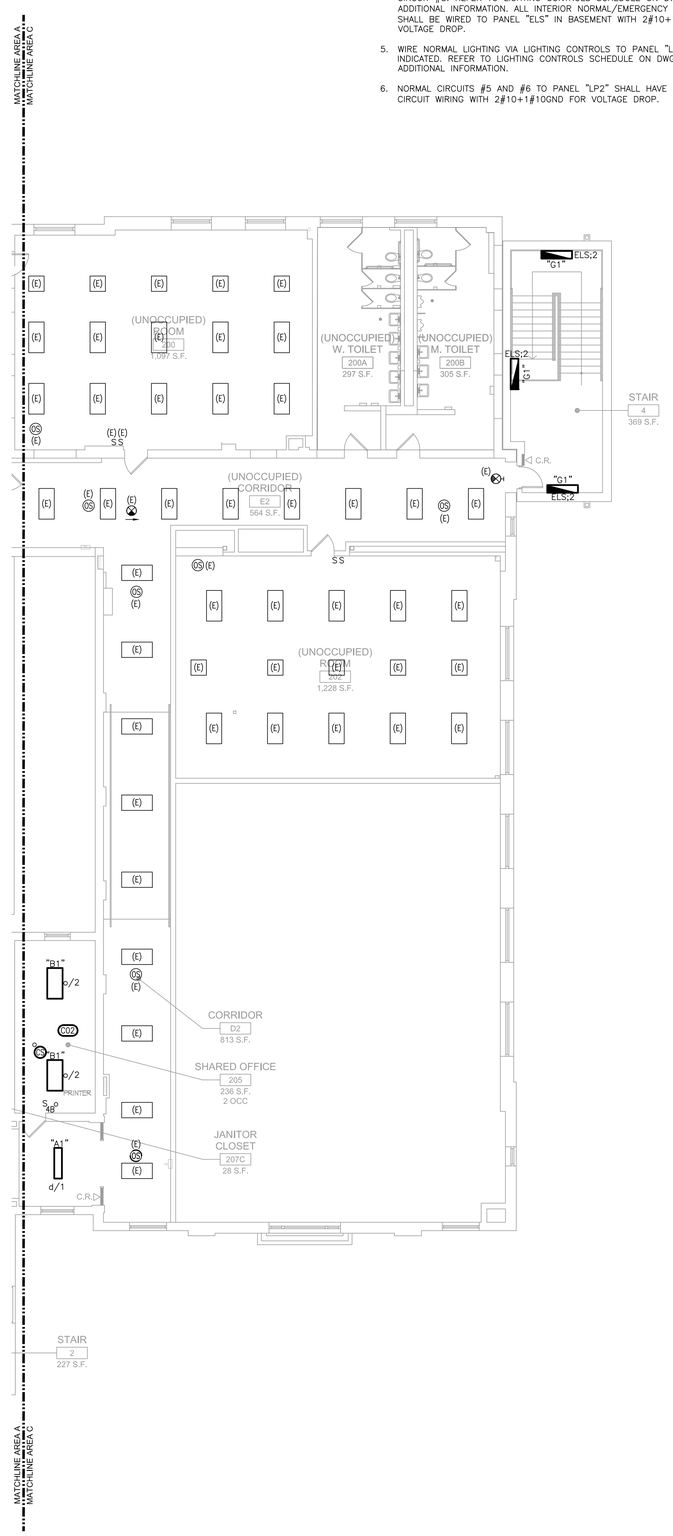
NOTES:

1. REFER TO DRAWINGS E-001 & E-002 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. ALL WORK SHOWN IS TO BE NEW, UNLESS OTHERWISE NOTED.
3. WIRE EXIT SIGNS TO PANEL "ELS", CIRCUIT #5, AHEAD OF ANY SWITCHING.
4. WIRE NORMAL/EMERGENCY LIGHTING VIA LIGHTING CONTROLS TO PANEL "ELS", CIRCUIT #5. REFER TO LIGHTING CONTROLS SCHEDULE ON DWG E-600 FOR ADDITIONAL INFORMATION. ALL INTERIOR NORMAL/EMERGENCY LIGHTING CIRCUITS SHALL BE WIRED TO PANEL "ELS" IN BASEMENT WITH 2#10+1#10GND FOR VOLTAGE DROP.
5. WIRE NORMAL LIGHTING VIA LIGHTING CONTROLS TO PANEL "LP2", CIRCUITING AS INDICATED. REFER TO LIGHTING CONTROLS SCHEDULE ON DWG E-600 FOR ADDITIONAL INFORMATION.
6. NORMAL CIRCUITS #5 AND #6 TO PANEL "LP2" SHALL HAVE HOMERUN BRANCH CIRCUIT WIRING WITH 2#10+1#10GND FOR VOLTAGE DROP.



1 **LIGHTING NEW WORK SECOND FLOOR PLAN AREA B**
SCALE: 1/8"=1'0"



2 **LIGHTING NEW WORK SECOND FLOOR PLAN AREA C**
SCALE: 1/8"=1'0"

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
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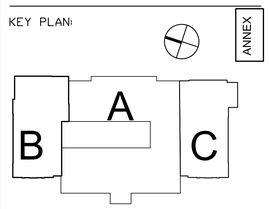
RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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Glassboro, NJ 08028

Project:
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BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:
LIGHTING 2ND FLR

Sheet No:
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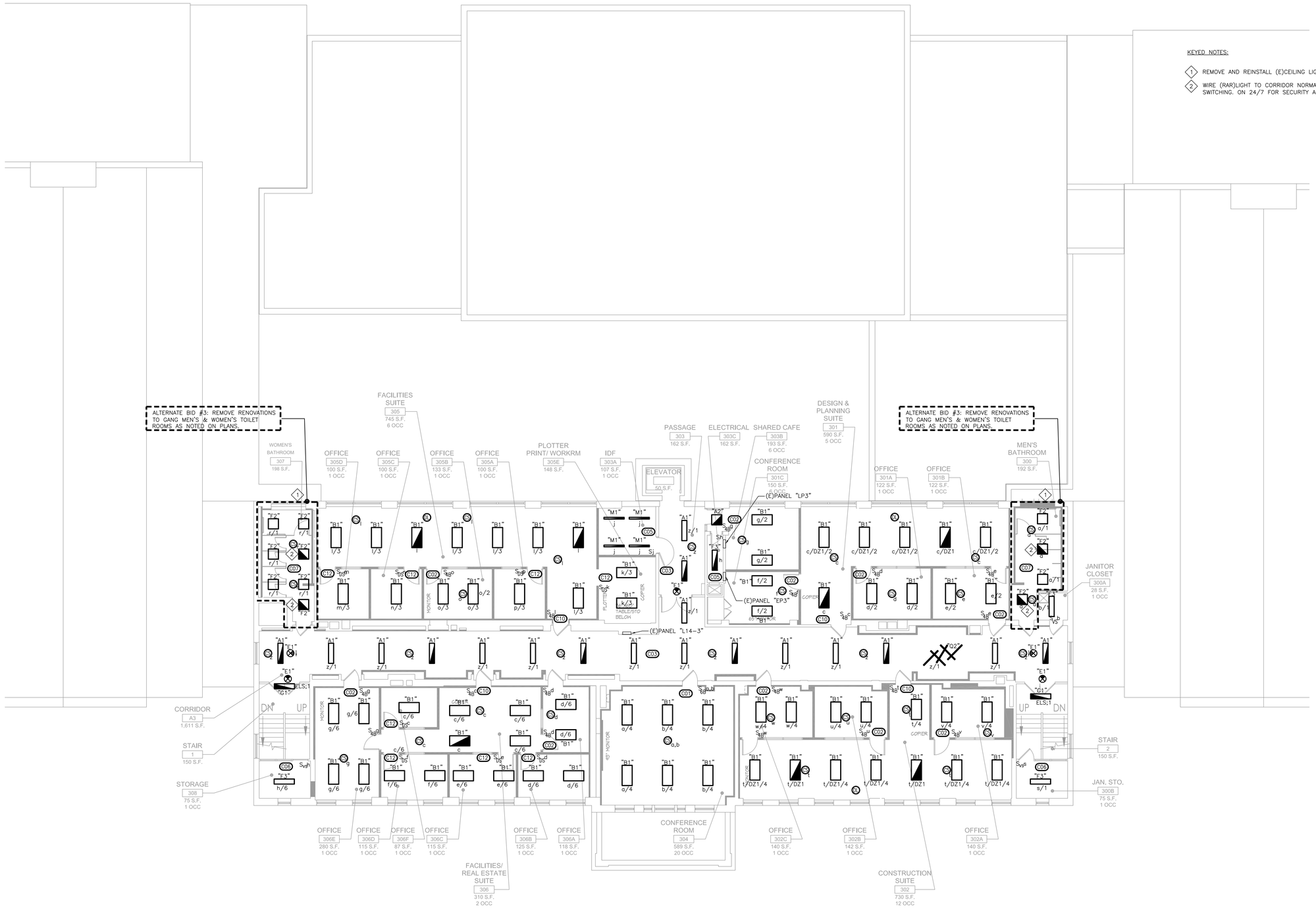
NOTES:

1. REFER TO DRAWINGS E-001 & E-002 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. ALL WORK SHOWN IS TO BE NEW, UNLESS OTHERWISE NOTED.
3. WIRE EXIT SIGNS TO PANEL "ELS" CIRCUIT #7, AHEAD OF ANY SWITCHING.
4. WIRE NORMAL/EMERGENCY LIGHTING VIA LIGHTING CONTROLS TO PANEL "ELS", CIRCUIT #7, UNLESS OTHERWISE NOTED. REFER TO LIGHTING CONTROLS SCHEDULE ON DWG E-600 FOR ADDITIONAL INFORMATION.
5. WIRE NORMAL LIGHTING VIA LIGHTING CONTROLS TO PANEL "LP3", CIRCUITING AS INDICATED. REFER TO LIGHTING CONTROLS SCHEDULE ON DWG E-600 FOR ADDITIONAL INFORMATION.

KEYED NOTES:

1. REMOVE AND REINSTALL (E)CEILING LIGHTS AS PART OF BASE BID.
2. WIRE (RAR)LIGHT TO CORRIDOR NORMAL/EMERGENCY CIRCUIT, AHEAD OF ALL SWITCHING. ON 24/7 FOR SECURITY AS PART OF BASE BID.



1 LIGHTING NEW WORK THIRD FLOOR PLAN

SCALE: 1/8"=1'0"

M/E/P Engineer:

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Consulting M/E/P Engineers
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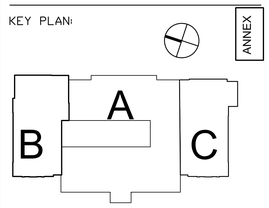
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:
LIGHTING 3RD FLR

Sheet No:
E-103A
Sheet 0 of 000

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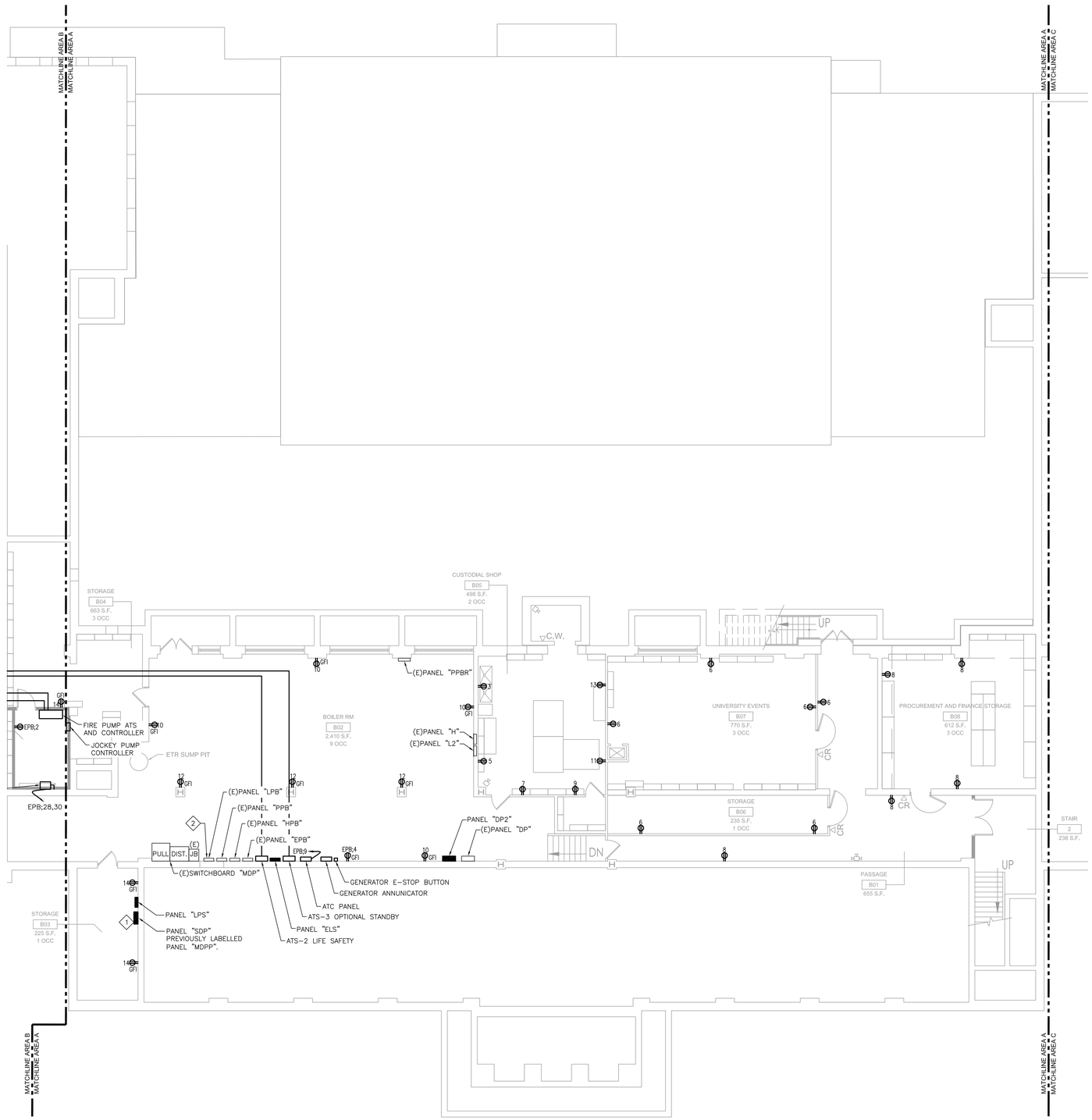
KEYED NOTES:

1. TERMINATE (E) BRANCH CIRCUIT WIRING IN (N) PANEL.
2. RELOCATE BRANCH CIRCUIT FEEDING EXISTING SUMP PUMP FROM PANEL "LPB" TO PANEL "EPB", SPLICE AND EXTEND 3/4"C-2#12+1#12GND CIRCUIT WIRING, AS NECESSARY.

NOTES:

1. REFER TO DRAWINGS E-001 & E-002 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. ALL WORK SHOWN IS TO BE NEW, UNLESS OTHERWISE NOTED.
3. WIRE ALL RECEPTACLES AND EQUIPMENT TO (E)PANEL "PPB", UNLESS OTHERWISE NOTED.



1 POWER NEW WORK BASEMENT FLOOR PLAN AREA A

SCALE: 1/8"=1'0"

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M/E/P Engineer:

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Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
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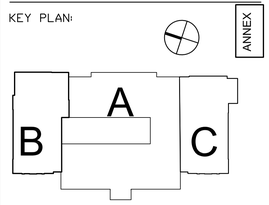
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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NJ RA AI 15023, NY RA 027416, PA RA 405474

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201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
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BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:
POWER BASEMENT FLOOR

Sheet No:
E-200A
Sheet 0 of 000

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NOTES:

1. REFER TO DRAWING E–001 & E–002 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
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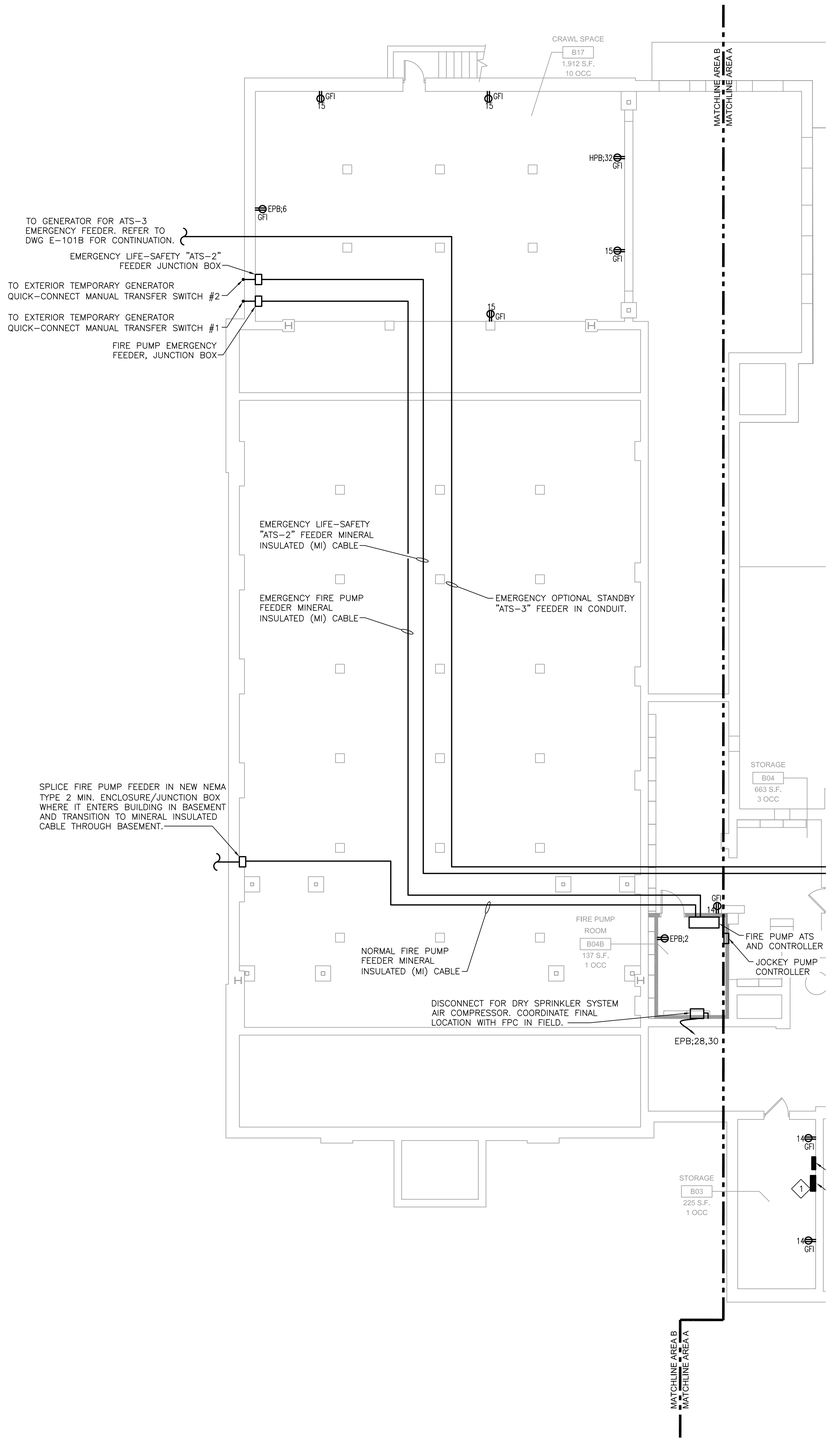
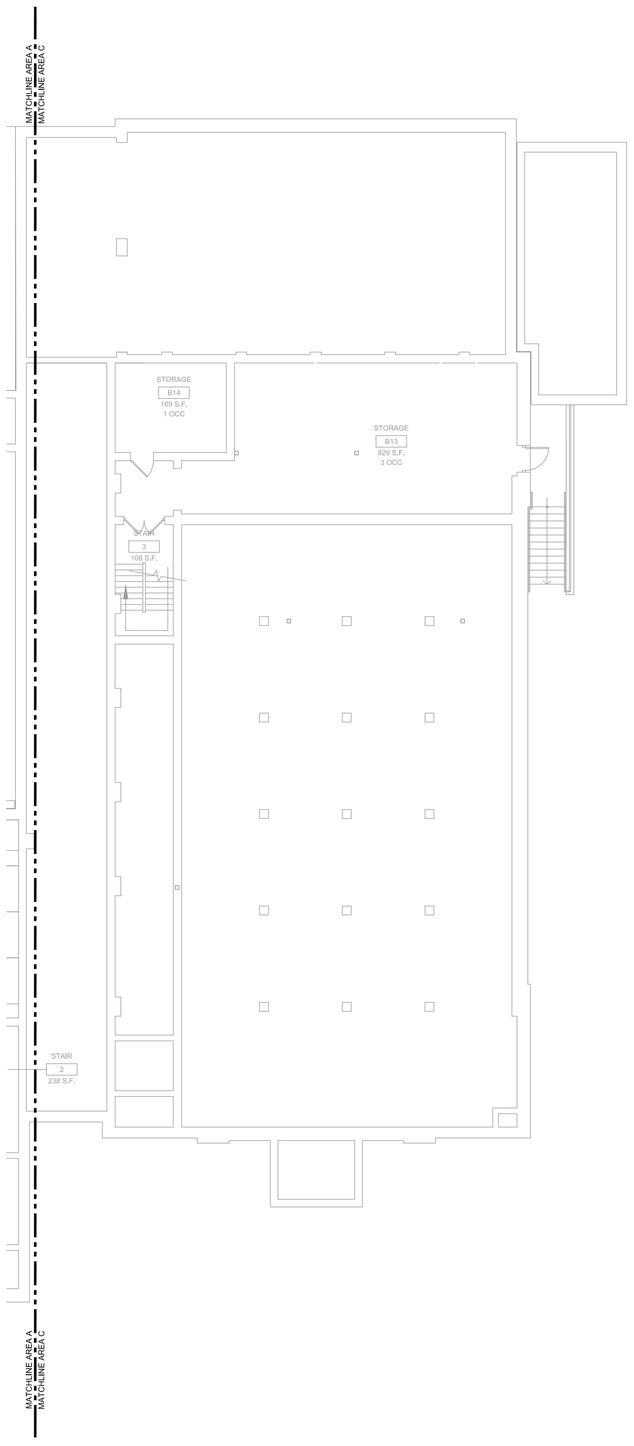
3. WIRE ALL RECEPTACLES AND EQUIPMENT TO (E)PANEL "PPB", UNLESS OTHERWISE NOTED.



1 POWER NEW WORK BASEMENT FLOOR PLAN AREA B

SCALE: 1/8"=1'0"



2 POWER NEW WORK BASEMENT FLOOR PLAN AREA C

SCALE: 1/8"=1'0"

M/E/P Engineer:

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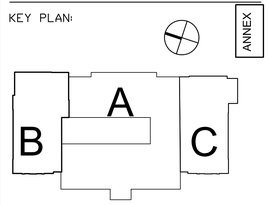
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:
POWER BASEMENT FLR

Sheet No:
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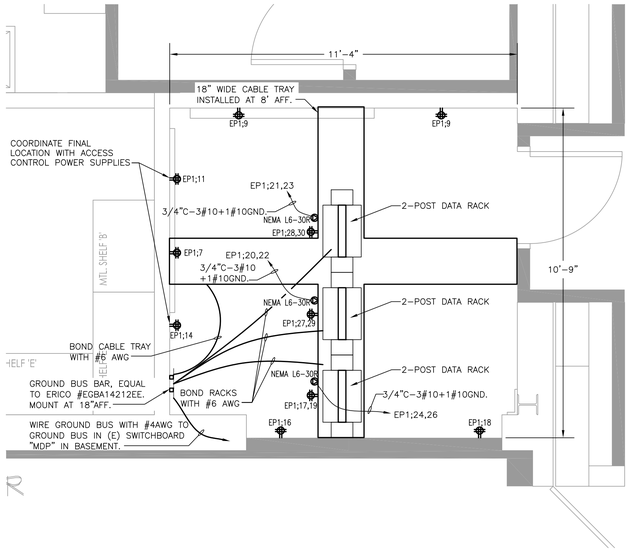
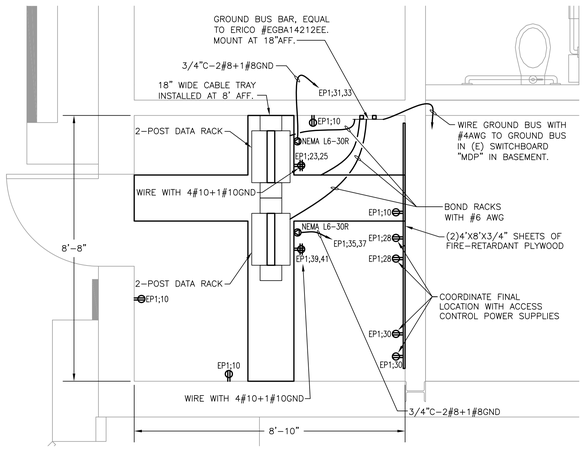


2 POWER NEW WORK FIRST FLOOR MDF ROOM
SCALE: 1/2"=1'0"



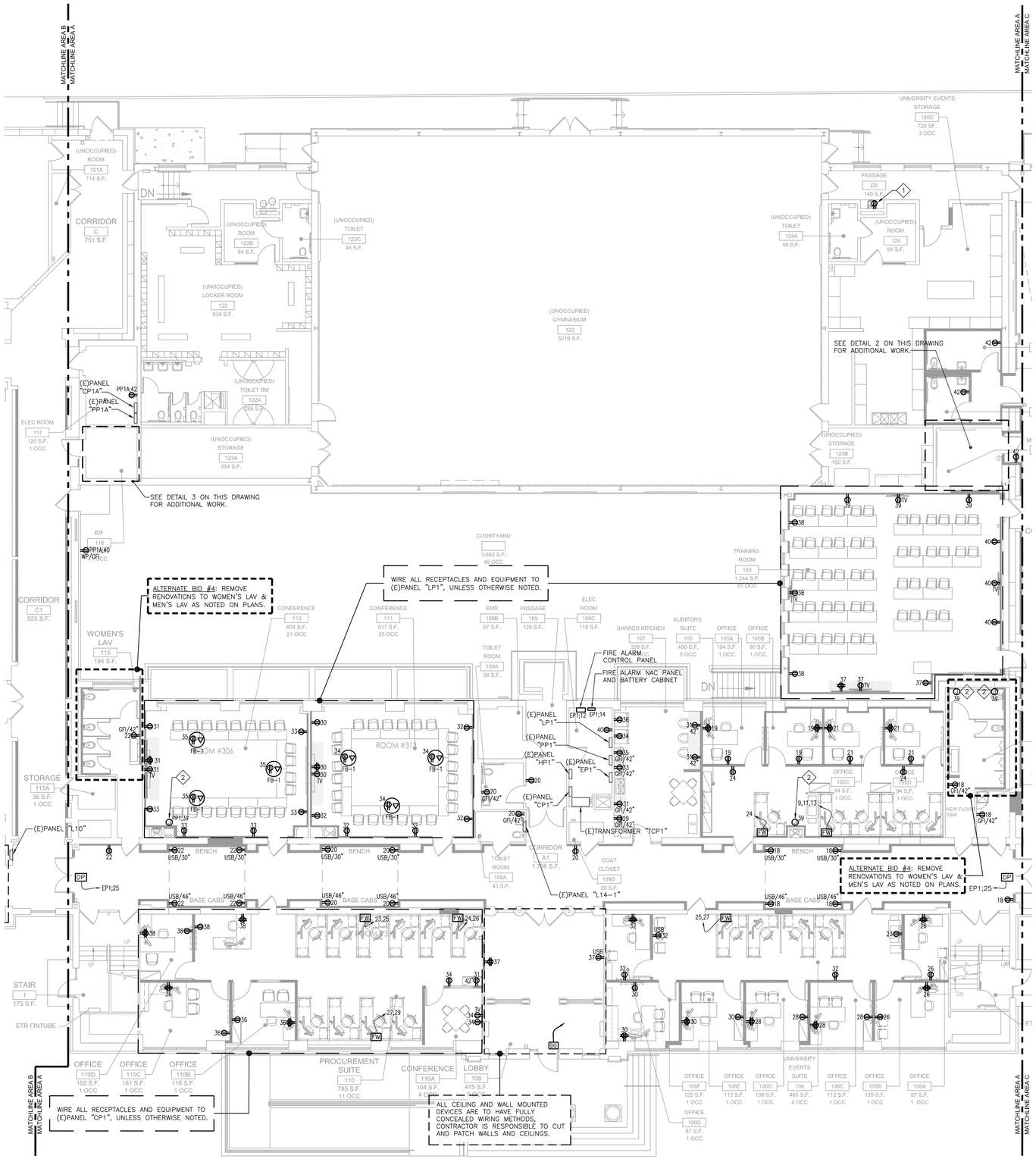
3 POWER NEW WORK FIRST FLOOR IDF ROOM
SCALE: 1/2"=1'0"

KEY NOTES:

1. SPLICE/EXTEND EXISTING WIRING MAINTAINED DURING DEMOLITION AND WIRE TO NEW RECEPTACLE. IN PANEL "PP1A, CKT#14 REPLACE (E)1P-20 CIRCUIT BREAKER FEEDING UNIT WITH A NEW 1P-20A GFI CIRCUIT BREAKER.
2. POWER FOR MC PROVIDED COMBINATION FIRE/SMOKE DAMPER. WIRE COMBINATION FIRE/SMOKE DAMPER VIA FIRE ALARM ADDRESSABLE RELAY MODULE.

NOTES:

1. REFER TO DRAWINGS E-001 & E-002 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. ALL WORK SHOWN IS TO BE NEW, UNLESS OTHERWISE NOTED.
3. WIRE ALL RECEPTACLES AND EQUIPMENT TO (E)PANEL "PP1", UNLESS OTHERWISE NOTED.



1 POWER NEW WORK FIRST FLOOR PLAN AREA A
SCALE: 1/8"=1'0"

M/E/P Engineer:

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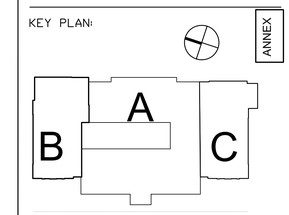
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:
POWER 1ST FLR

Sheet No:
E-201A
Sheet 0 of 000

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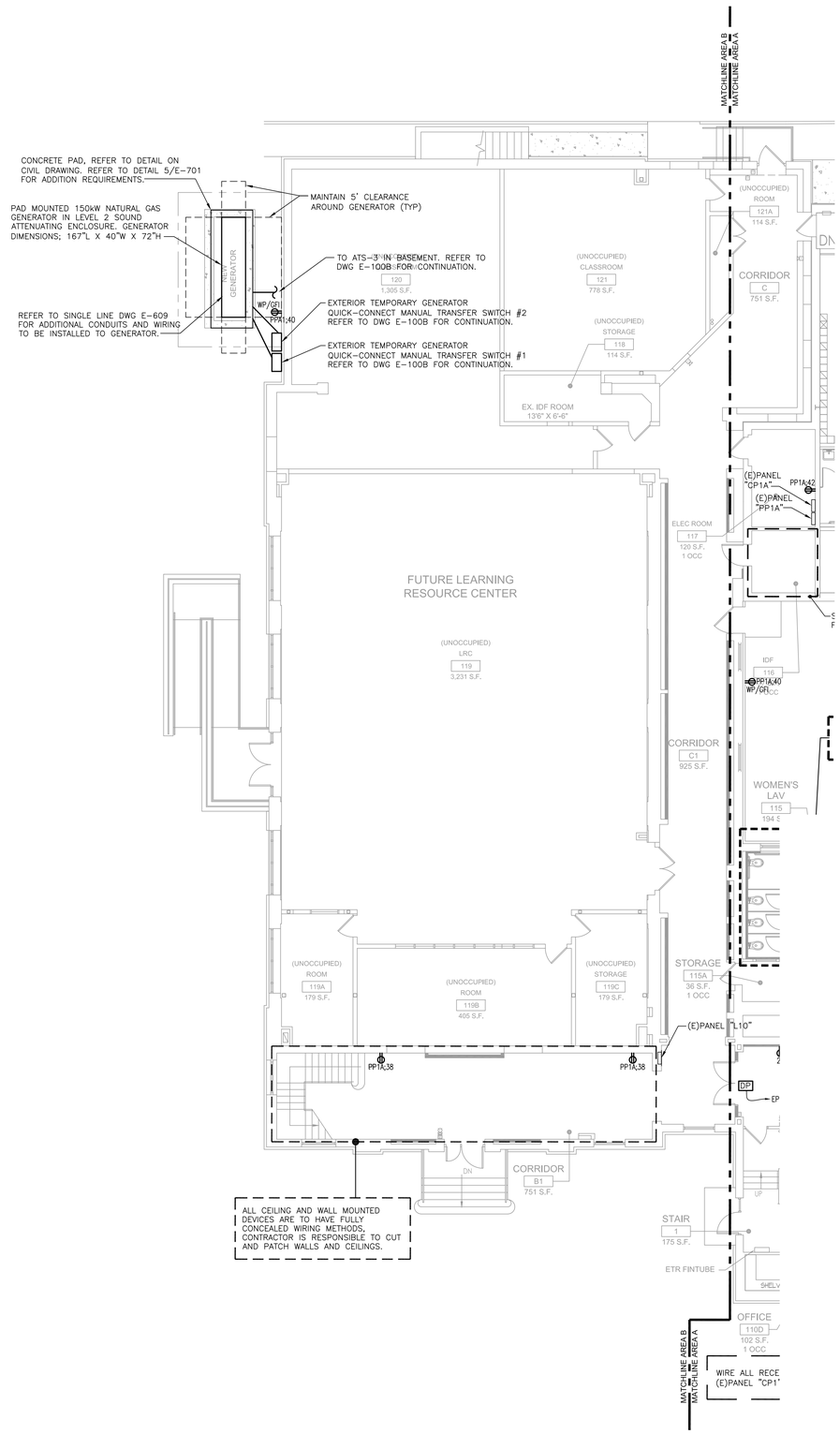
KEYED NOTES:

1. WIRE EXISTING RECEPTACLE TO NEW BRANCH CIRCUIT FROM PANEL "SS", CIRCUITING AS SHOWN.

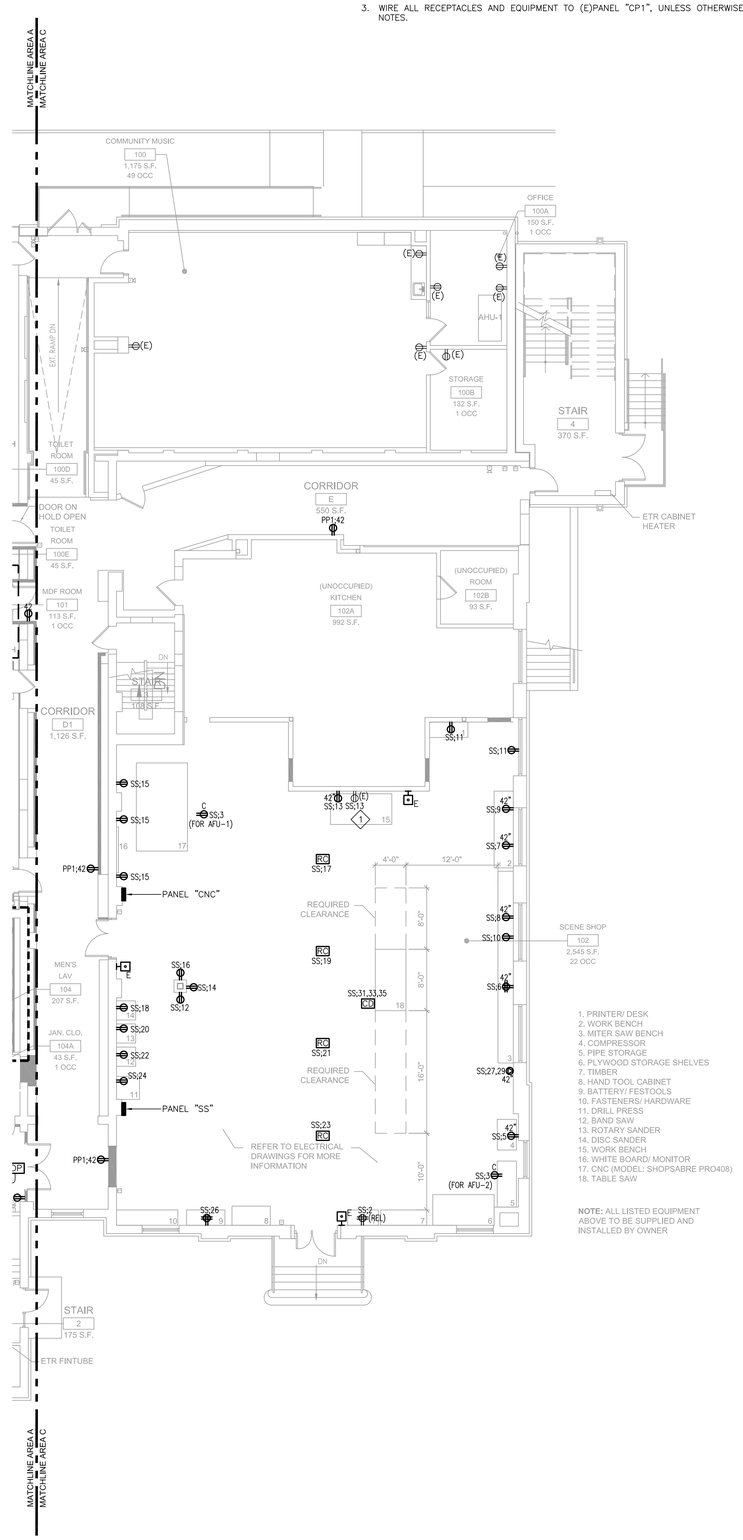
NOTES:

1. REFER TO DRAWING E-001 & E-002 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. ALL WORK SHOWN IS TO BE NEW, UNLESS OTHERWISE NOTED.
3. WIRE ALL RECEPTACLES AND EQUIPMENT TO (E)PANEL "CP1", UNLESS OTHERWISE NOTES.



1 POWER NEW WORK FIRST FLOOR PLAN AREA B

SCALE: 1/8"=1'0"



1. PRINTER/ DESK
2. WORK BENCH
3. MITER SAW BENCH
4. COMPRESSOR
5. PIPE STORAGE
6. PLYWOOD STORAGE SHELVES
7. TIMBER
8. HAND TOOL CABINET
9. BATTERY/ FESTOOLS
10. FASTENERS/ HARDWARE
11. DRILL PRESS
12. BAND SAW
13. ROTARY SANDER
14. DISC SANDER
15. WORK BENCH
16. WHITE BOARD/ MONITOR
17. CNC (MODEL: SHOPSABRE PRO408)
18. TABLE SAW

NOTE: ALL LISTED EQUIPMENT ABOVE TO BE SUPPLIED AND INSTALLED BY OWNER

ROOM #307

2 POWER NEW WORK FIRST FLOOR PLAN AREA C

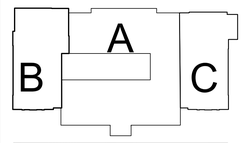
SCALE: 1/8"=1'0"

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



No.	Date	Description
	12/08/25	OUT TO BID
	12/03/25	DCA Submission
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Richard D. Alderiso , AIA
NJ RA AI 15023, NY RA 027416, PA RA 405474

DO NOT SCALE, DRAWING MAY BE PRINTED AT REDUCED SCALE, CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:
POWER 1ST FLR

Sheet No:
E-201B
Sheet 0 of 000

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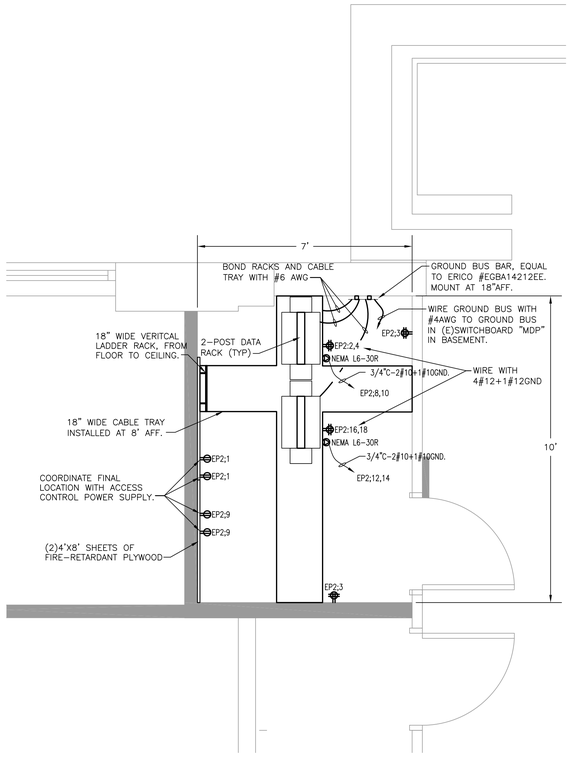
12/6/2025 10:54:40 AM

KEY NOTES:

1. POWER FOR MC PROVIDED COMBINATION FIRE/SMOKE DAMPER. WIRE COMBINATION FIRE/SMOKE DAMPER VIA FIRE ALARM ADDRESSABLE RELAY MODULE.

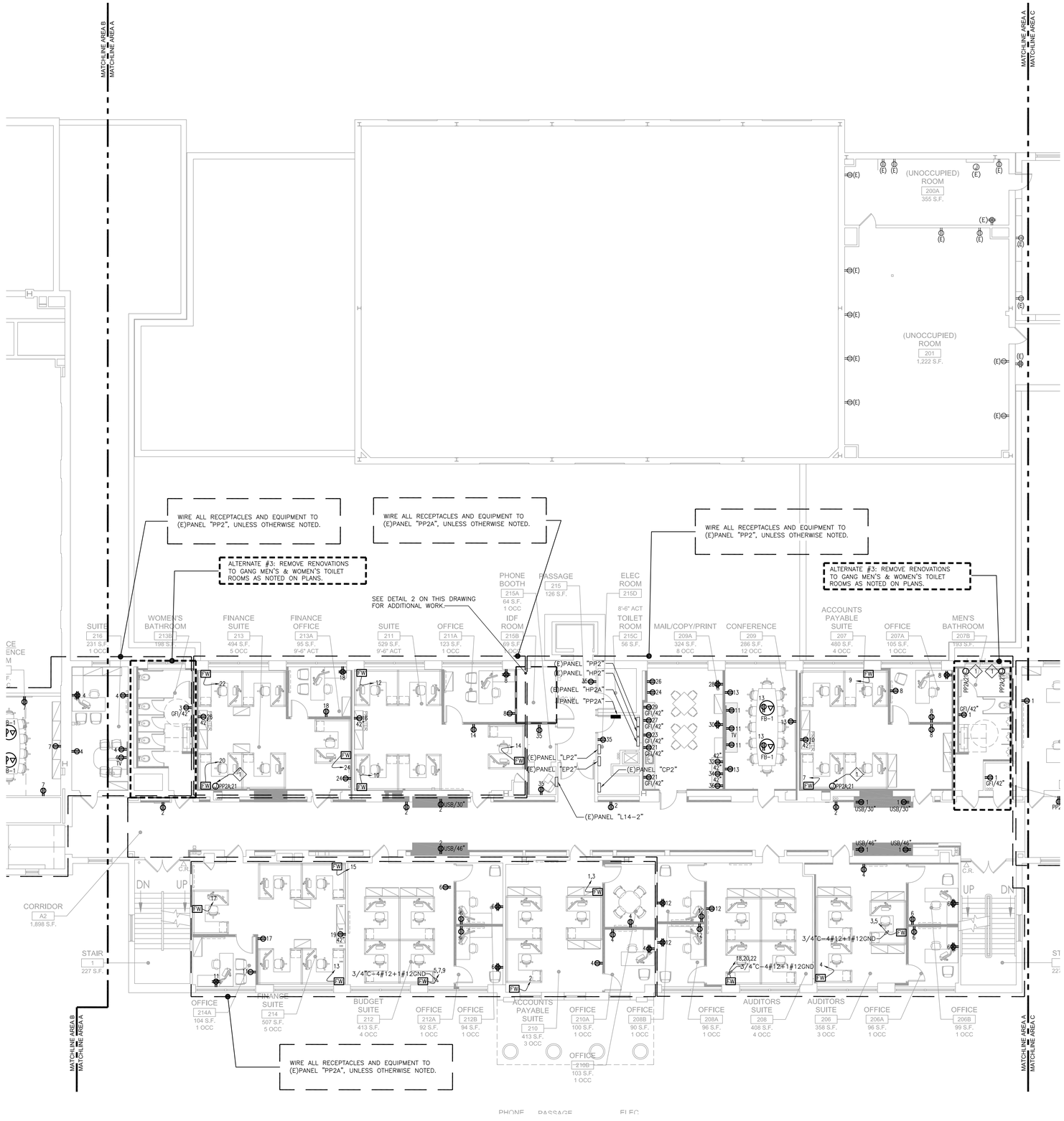
NOTES:

1. REFER TO DRAWINGS E-001 & E-002 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. ALL WORK SHOWN IS TO BE NEW, UNLESS OTHERWISE NOTED.



2 POWER NEW WORK SECOND FLOOR IDF ROOM

SCALE: 1/2"=1'0"



1 POWER NEW WORK SECOND FLOOR PLAN AREA A

SCALE: 1/8"=1'0"

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
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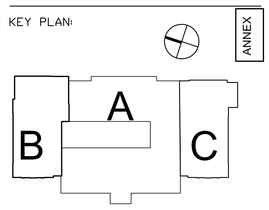
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



No.	Date	Revisions / Issues
	12/08/25	OUT TO BID
	12/03/25	DCA Submission

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Richard D. Alderiso , AIA
NJ RA AI 15023, NY RA 027416, PA RA 405474

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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:
POWER 2ND FLR

Sheet No:
E-202A
Sheet 0 of 000

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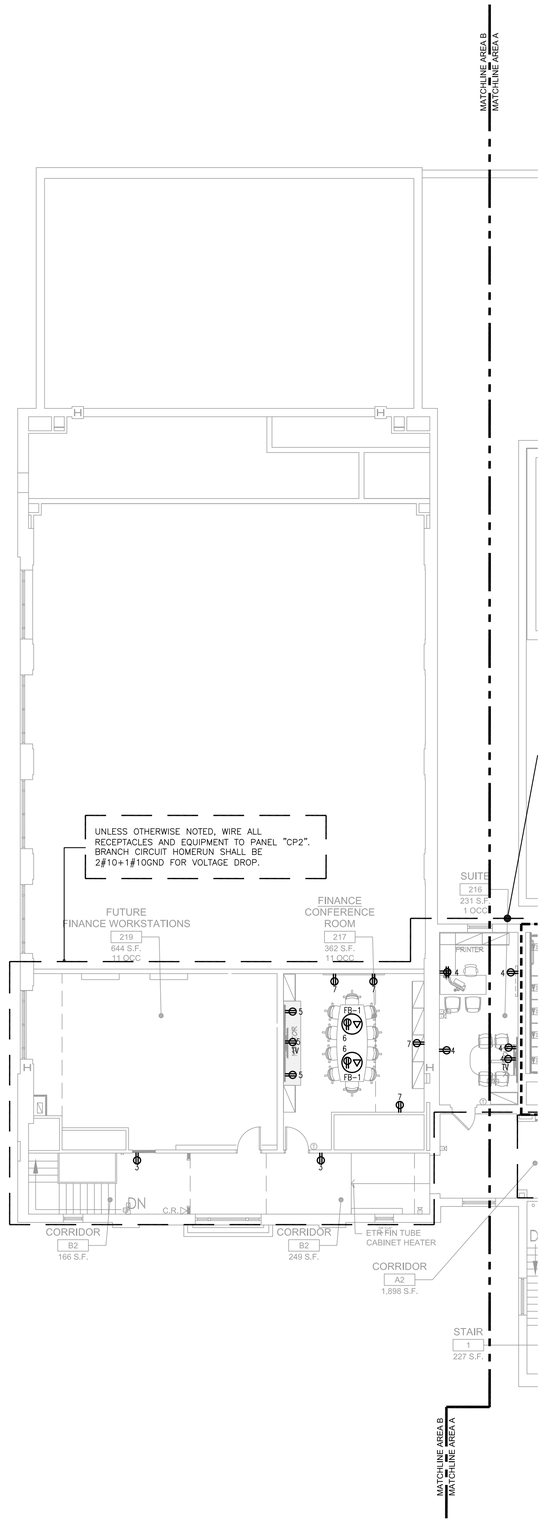
KEY NOTES:

1. POWER FOR MC PROVIDED COMBINATION FIRE/SMOKE DAMPER. WIRE COMBINATION FIRE/SMOKE DAMPER VIA FIRE ALARM ADDRESSABLE RELAY MODULE.

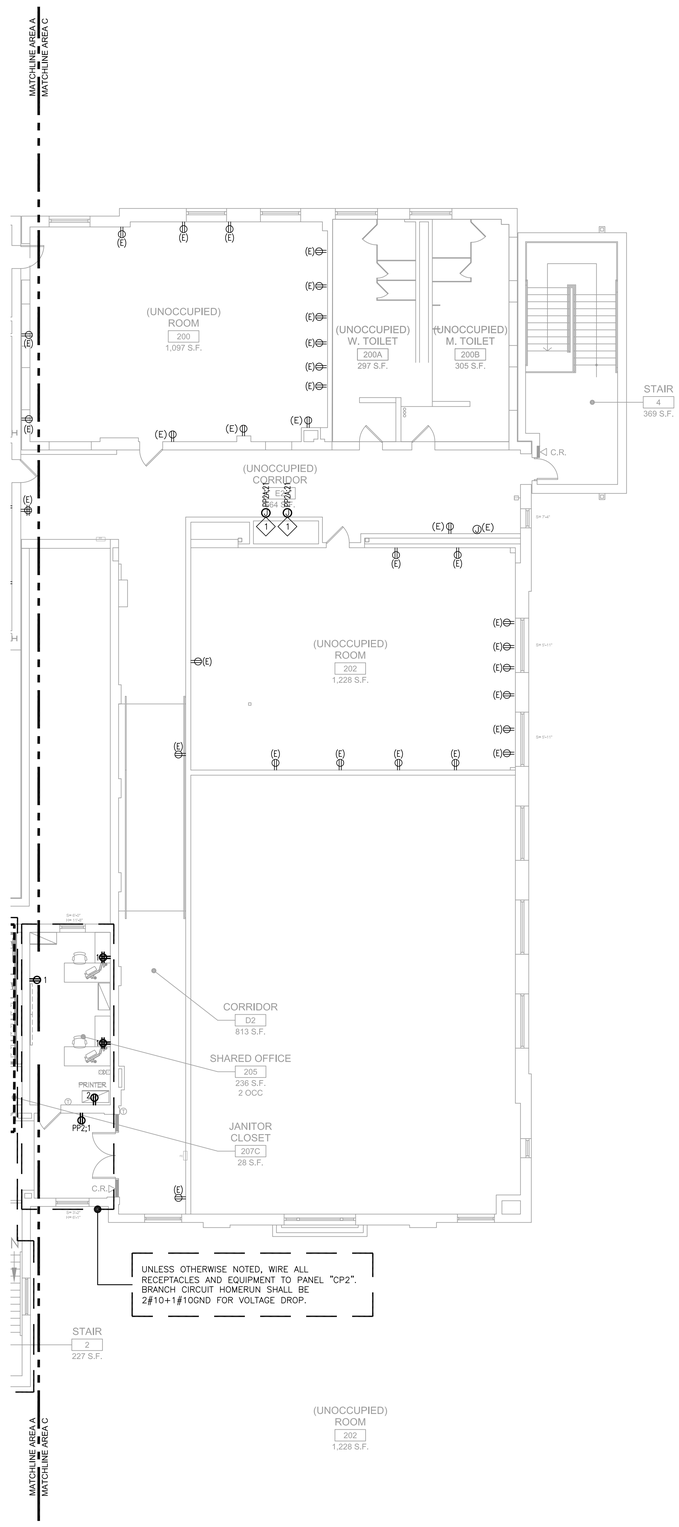
NOTES:

1. REFER TO DRAWING E-001 & E-002 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. ALL WORK SHOWN IS TO BE NEW, UNLESS OTHERWISE NOTED.



1 POWER NEW WORK SECOND FLOOR PLAN AREA B

SCALE: 1/8"=1'0"



2 POWER NEW WORK SECOND FLOOR PLAN AREA C

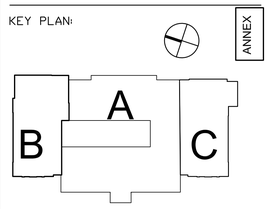
SCALE: 1/8"=1'0"

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



No.	Date	Revisions / Issues
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Richard D. Alderiso , AIA
NJ RA AI 15023, NY RA 027416, PA RA 405474

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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:
POWER 2ND FLR

Sheet No:
E-202B
Sheet 0 of 000

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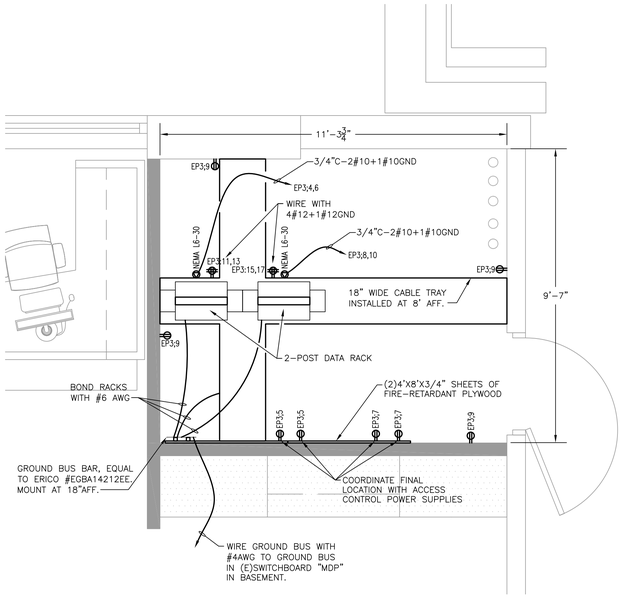
KEY NOTES:

1. POWER FOR MC PROVIDED COMBINATION FIRE/SMOKE DAMPER. WIRE COMBINATION FIRE/SMOKE DAMPER VIA FIRE ALARM ADDRESSABLE RELAY MODULE.

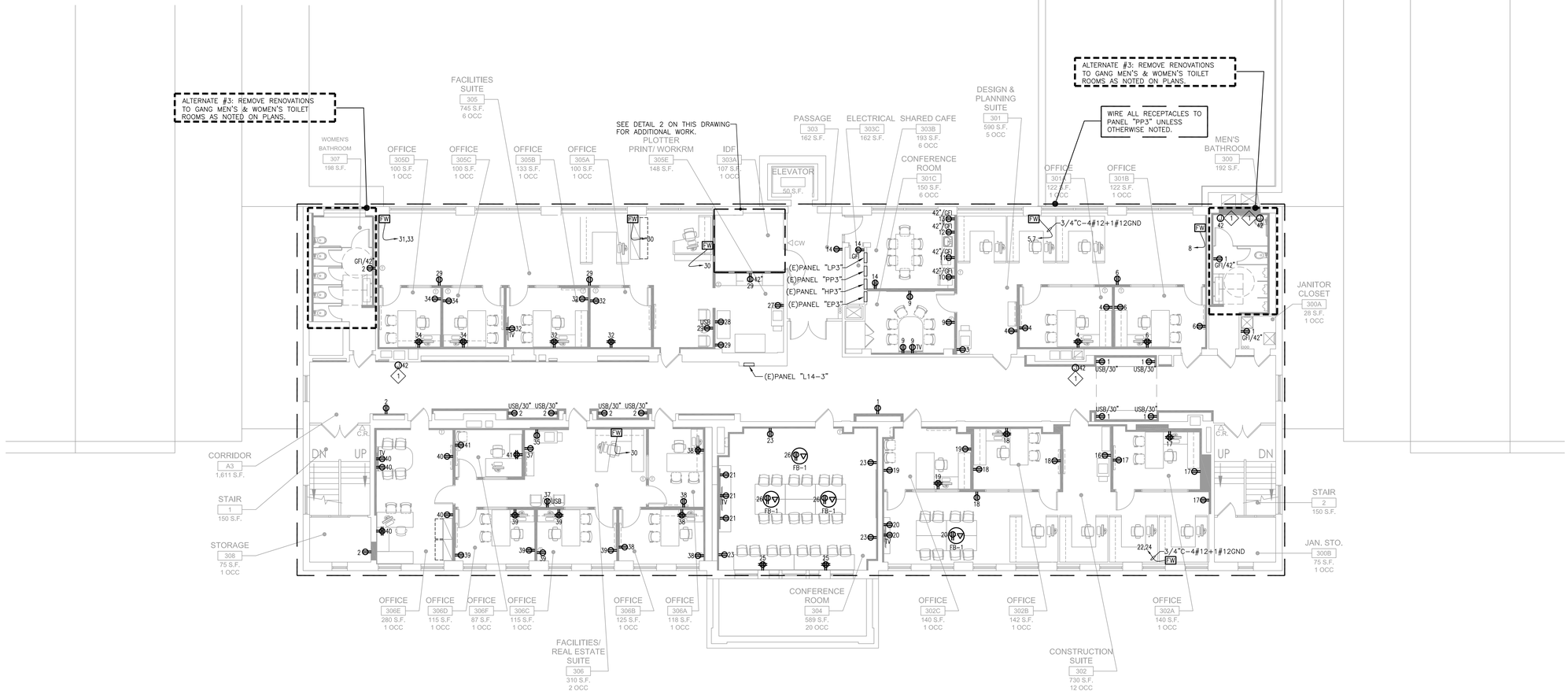
NOTES:

1. REFER TO DRAWINGS E-001 & E-002 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. ALL WORK SHOWN IS TO BE NEW, UNLESS OTHERWISE NOTED.



2 POWER NEW WORK THIRD FLOOR IDF ROOM

SCALE: 1/2"=1'0"



1 POWER NEW WORK THIRD FLOOR PLAN

SCALE: 1/8"=1'0"

M/E/P Engineer:

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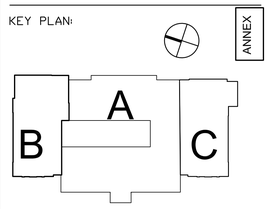
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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Richard D. Alderiso , AIA
NJ RA AI 15023, NY RA 027416, PA RA 405474

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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:
POWER 3RD FLR

Sheet No:
E-203A
Sheet 0 of 000

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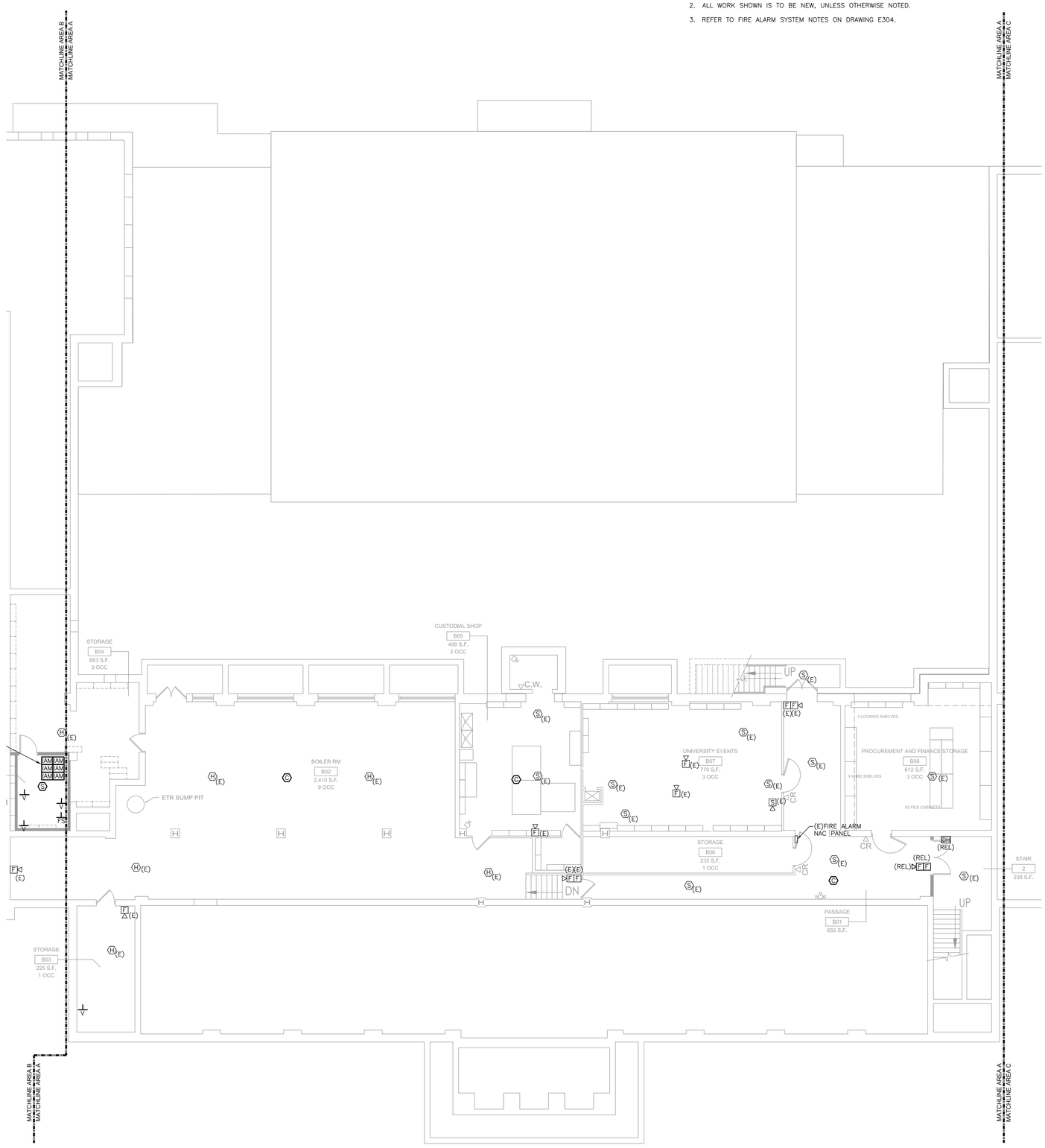
NOTES:

1. REFER TO DRAWING E-001 & E-002 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. ALL WORK SHOWN IS TO BE NEW, UNLESS OTHERWISE NOTED.
3. REFER TO FIRE ALARM SYSTEM NOTES ON DRAWING E304.



1 FIRE ALARM NEW WORK ANNEX FLOOR PLAN AREA A

SCALE: 1/8"=1'0"

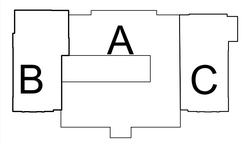
M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers

636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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NJ RA AI 15023, NY RA 027416, PA RA 405474

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Client:

Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:

Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:

Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:

FIRE ALARM BASEMENT

Sheet No:

E-300A

Sheet 0 of 000

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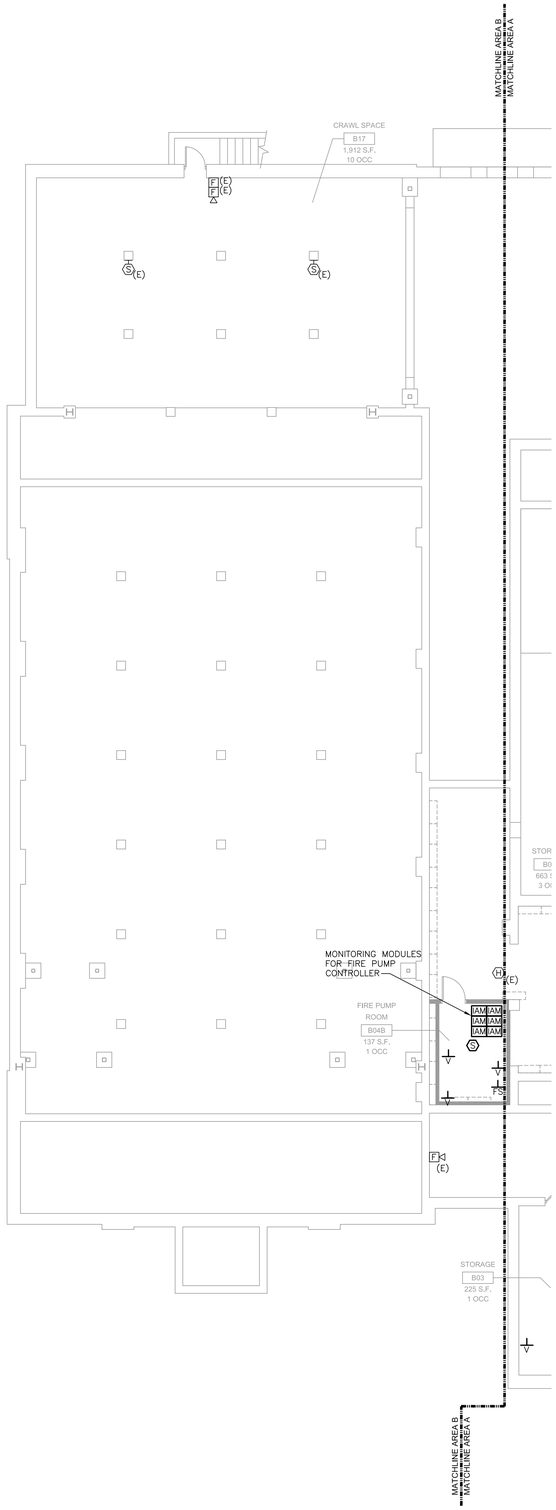
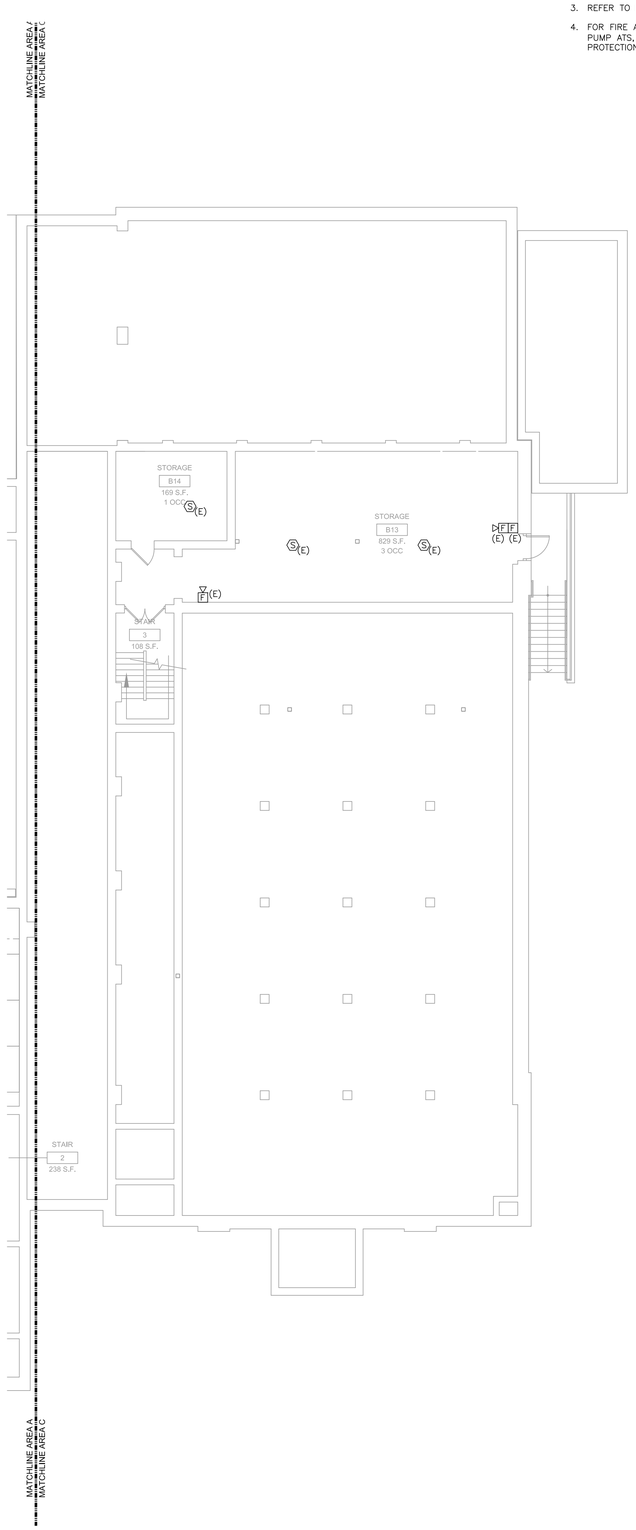
NOTES:

1. REFER TO DRAWINGS E-001 & E-002 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. ALL WORK SHOWN IS TO BE NEW, UNLESS OTHERWISE NOTED.
3. REFER TO FIRE ALARM SYSTEM NOTES ON DRAWING E304.
4. FOR FIRE ALARM SYSTEM MONITORING OF FIRE PUMP CONTROLLER AND FIRE PUMP ATS, COORDINATE FINAL MONITORING STATUS/ALARM CONTACTS WITH FIRE PROTECTION CONTRACTOR IN THE FIELD.



1 FIRE ALARM NEW WORK ANNEX FLOOR PLAN AREA B

SCALE: 1/8"=1'0"



2 FIRE ALARM NEW WORK BASEMENT FLOOR PLAN AREA C

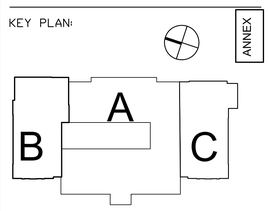
SCALE: 1/8"=1'0"

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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NJ RA AI 15023, NY RA 027416, PA RA 405474

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Client:

Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:

Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:

Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:

FIRE ALARM BASEMENT

Sheet No:

E-300B
Sheet 0 of 000

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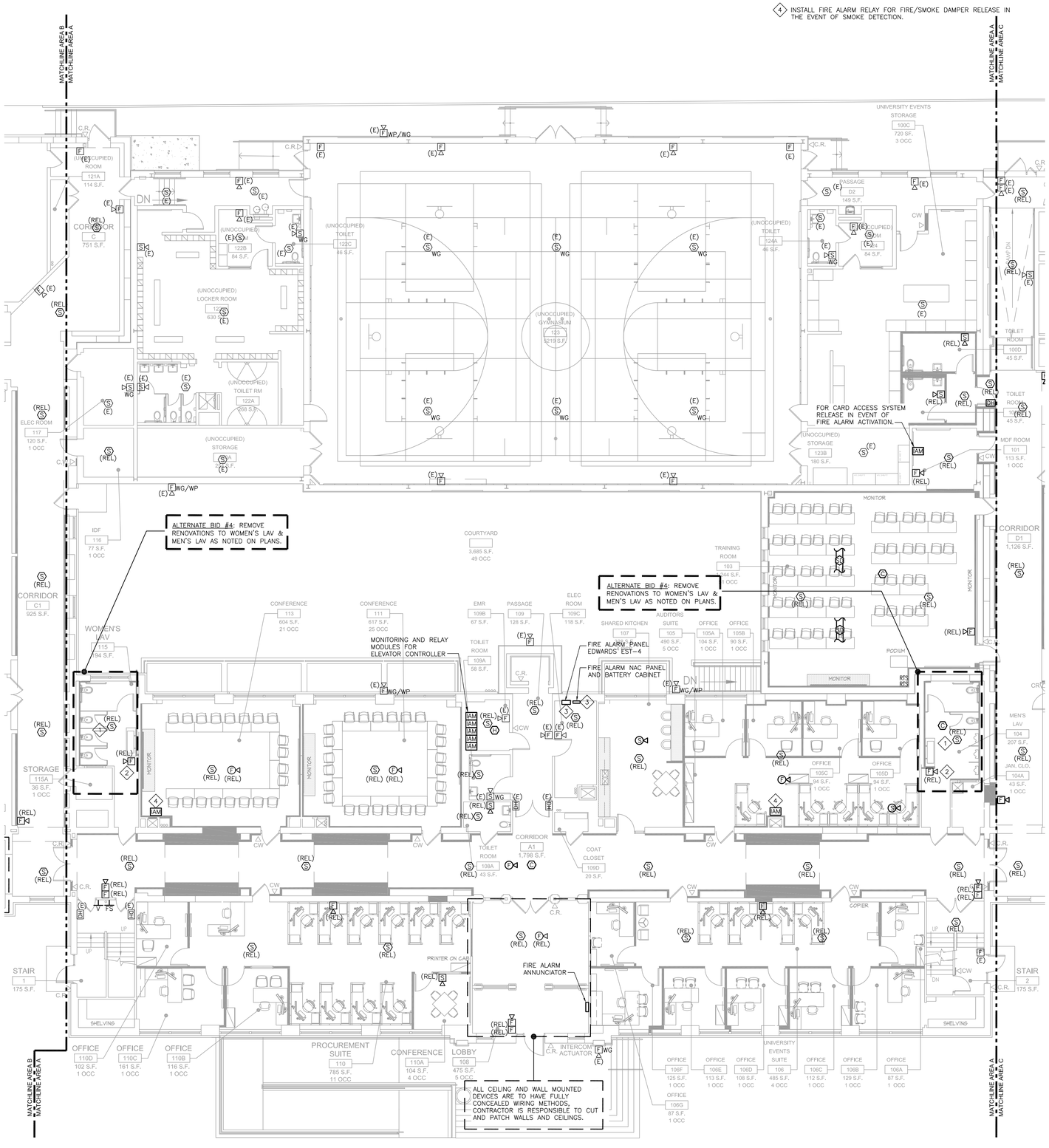
KEY NOTES:

1. REMOVE AND REINSTALL DETECTOR UNDER BASE BID TO ACCOMMODATE PARTIAL CEILING REMOVAL FOR MECHANICAL WORK.
2. REMOVE WIREGUARD.
3. TERMINATE EXISTING FIRE ALARM WIRING FROM ANNEX BUILDING SPLICED/EXTENDED FROM OLD FIRE ALARM PANEL LOCATION INTO NEW FIRE ALARM PANEL.
4. INSTALL FIRE ALARM RELAY FOR FIRE/SMOKE DAMPER RELEASE IN THE EVENT OF SMOKE DETECTION.

NOTES:

1. REFER TO DRAWINGS E-001 & E-002 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. ALL WORK SHOWN IS TO BE NEW, UNLESS OTHERWISE NOTED.
3. REFER TO FIRE ALARM SYSTEM NOTES ON DRAWING E304.
4. CONTRACTOR SHALL HIRE UNIVERSITY'S ELEVATOR VENDOR TO REPROGRAM ELEVATOR CONTROLLER AS REQUIRED TO ACCOMMODATE SHUNT TRIP ACTIVATION FOR NEW SPRINKLER IN ELEVATOR MACHINE ROOM. ELEVATOR VENDOR SHALL BE PRESENT FOR FIRE ALARM SYSTEM TESTING AT COMPLETION OF PROJECT TO ENSURE ELEVATOR INTERFACE WITH FIRE ALARM SYSTEM IS OPERATING PROPERLY. CONTACT ACE ELEVATOR LLC, AT 609-929-0554 FOR PRICING.



1 FIRE ALARM NEW WORK FIRST FLOOR PLAN AREA A

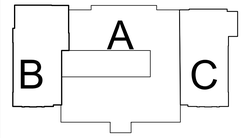
SCALE: 1/8"=1'0"

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



No.	Date	Revisions / Issues
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201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:
FIRE ALARM 1ST FLR

Sheet No:
E-301A
Sheet 0 of 000

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NOTES:

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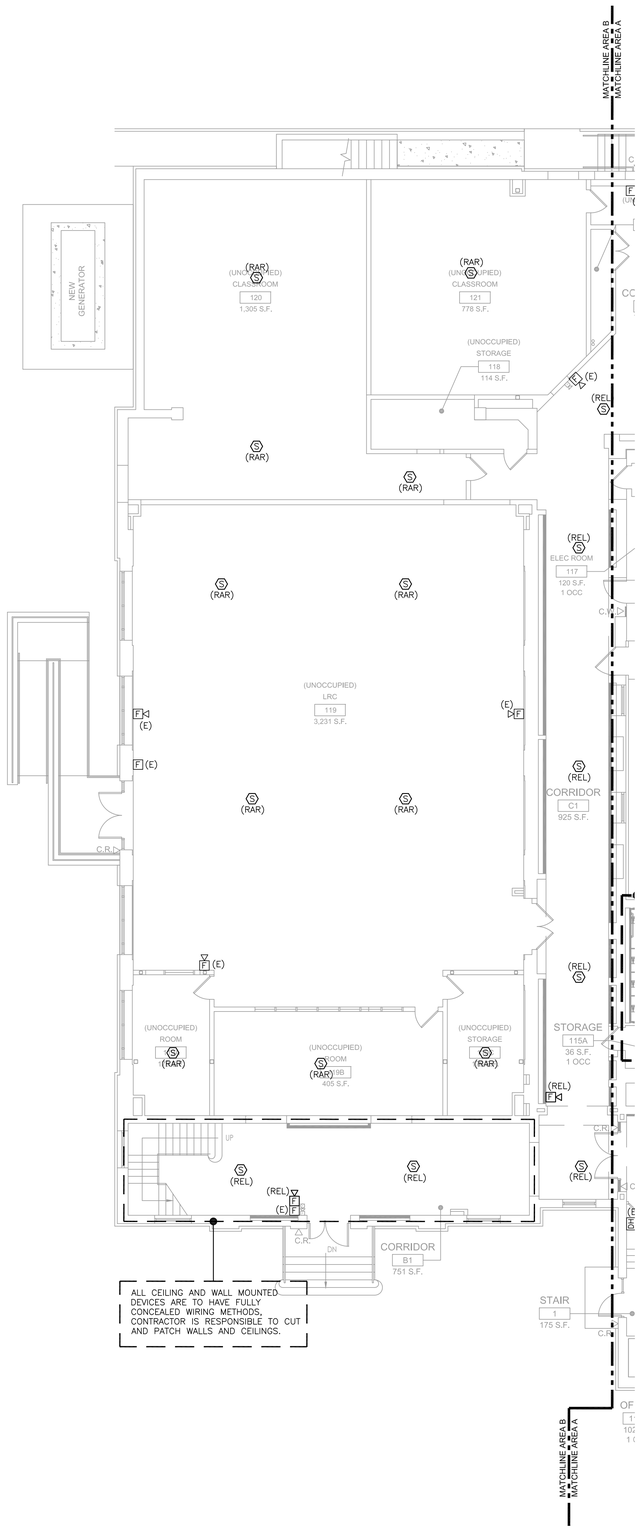
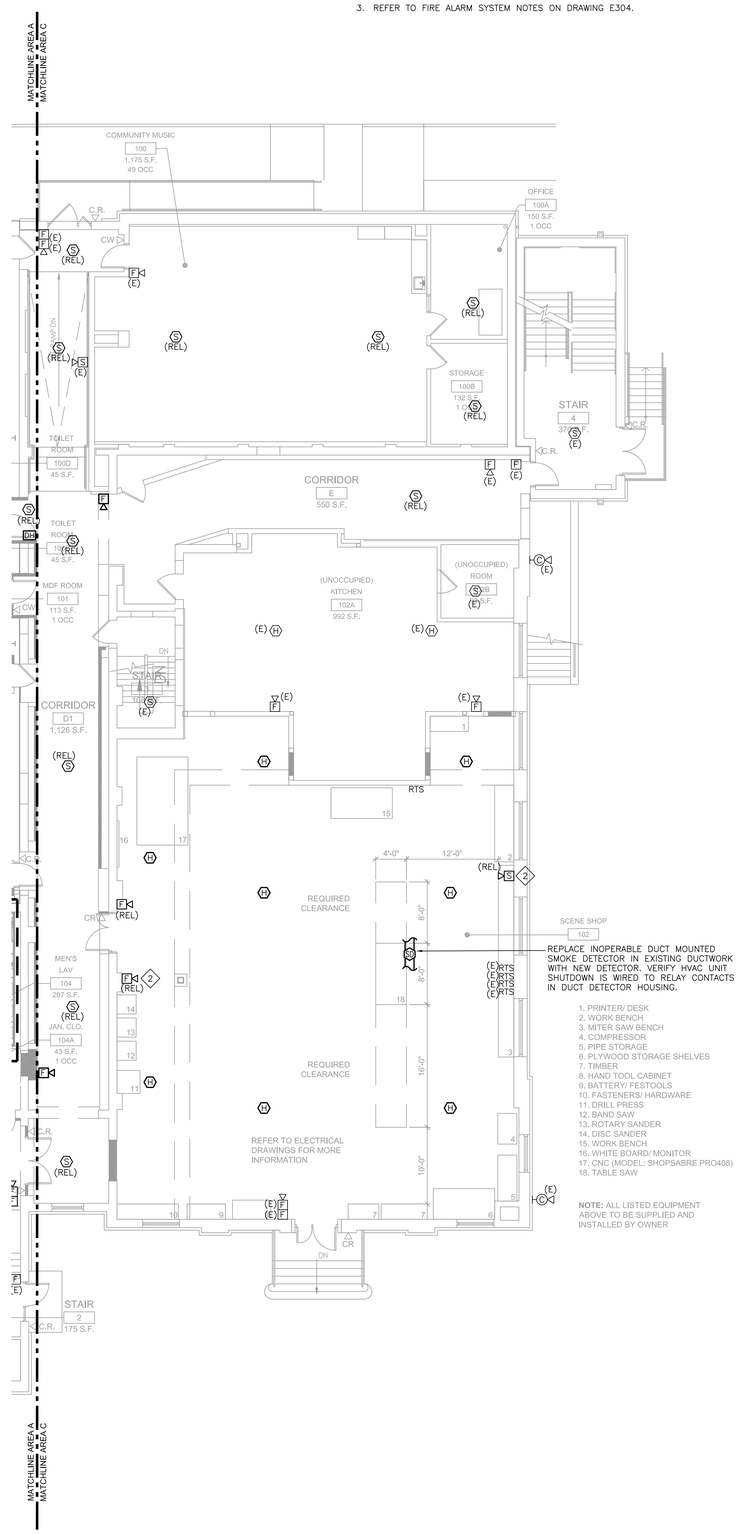
2. ALL WORK SHOWN IS TO BE NEW, UNLESS OTHERWISE NOTED.
3. REFER TO FIRE ALARM SYSTEM NOTES ON DRAWING E304.



1 **FIRE ALARM NEW WORK FIRST FLOOR PLAN AREA B**
SCALE: 1/8"=1'0"

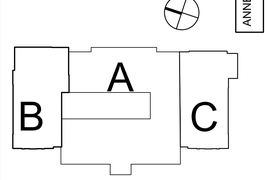


2 **FIRE ALARM NEW WORK FIRST FLOOR PLAN AREA C**
SCALE: 1/8"=1'0"

M/E/P Engineer:
SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



No.	Date	Description
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NJ RA AI 15023, NY RA 027416, PA RA 405474

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Glassboro, NJ 08028

Project:
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202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:
FIRE ALARM 1ST FLR

Sheet No:
E-301B
Sheet 0 of 000

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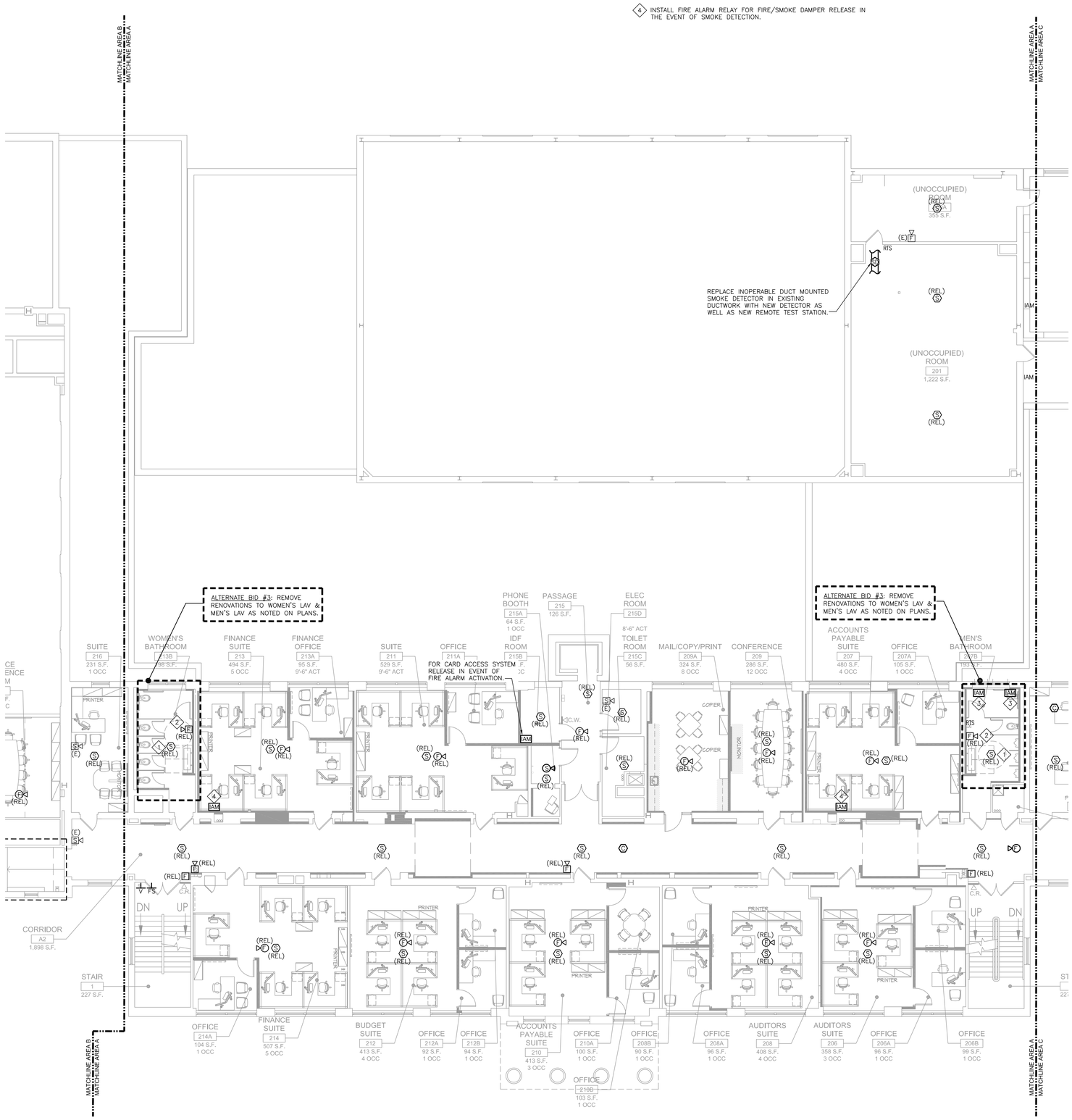
KEY NOTES:

1. REMOVE AND REINSTALL DETECTOR UNDER BASE BID TO ACCOMMODATE PARTIAL CEILING REMOVAL FOR MECHANICAL WORK.
2. REMOVE WIREGUARD.
3. INSTALL FIRE ALARM RELAY FOR FIRE/SMOKE DAMPER RELEASE IN THE EVENT OF SMOKE DETECTION UNDER BASE BID.
4. INSTALL FIRE ALARM RELAY FOR FIRE/SMOKE DAMPER RELEASE IN THE EVENT OF SMOKE DETECTION.

NOTES:

1. REFER TO DRAWINGS E-001 & E-002 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. ALL WORK SHOWN IS TO BE NEW, UNLESS OTHERWISE NOTED.
3. REFER TO FIRE ALARM SYSTEM NOTES ON DRAWING E304.



1 FIRE ALARM NEW WORK SECOND FLOOR PLAN AREA A

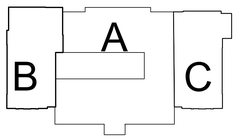
SCALE: 1/8"=1'0"

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



No.	Date	Description
	12/08/25	OUT TO BID
	12/03/25	DCA Submission

Revisions / Issues

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ARCHITECTURE FOR CHANGE
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2450 W Hunting Park Ave., Bldg 9 • Philadelphia, PA 19129-1302 • T: 215.634.3400

Richard D. Alderiso , AIA
NJ RA AI 15023, NY RA 027416, PA RA 405474

DO NOT SCALE, DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client:

Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:

Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:

Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:

FIRE ALARM 2ND FLR

Sheet No:

E-302A

Sheet 0 of 000

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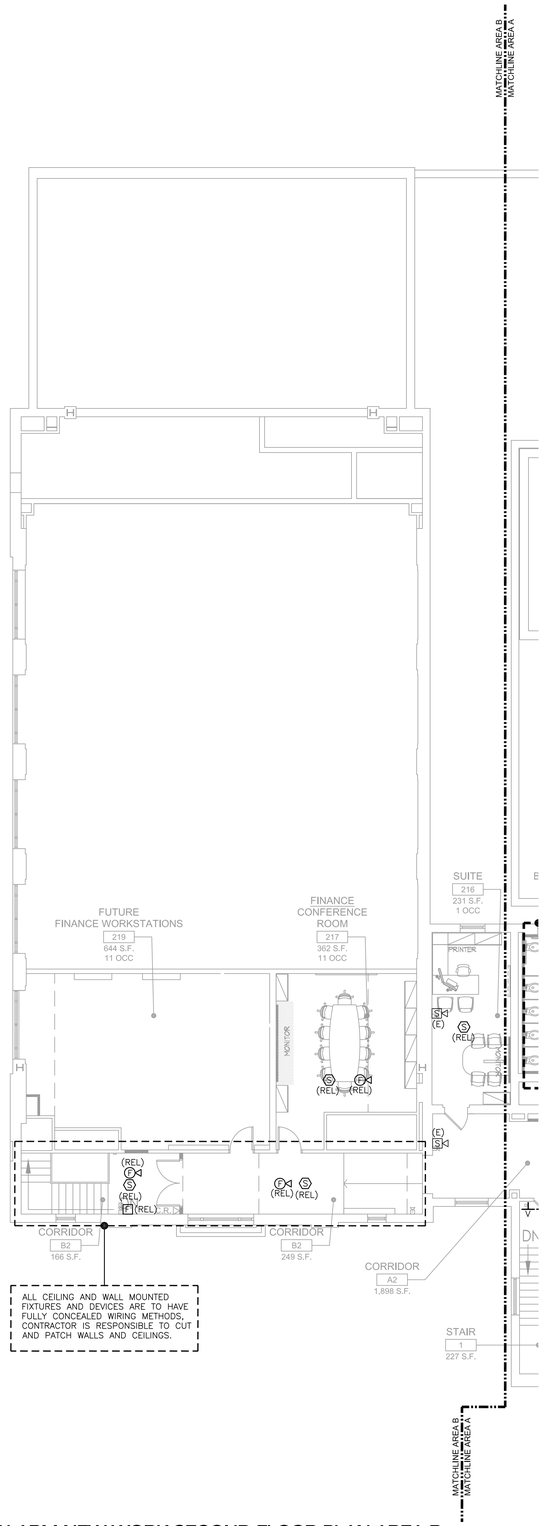
KEY NOTES:

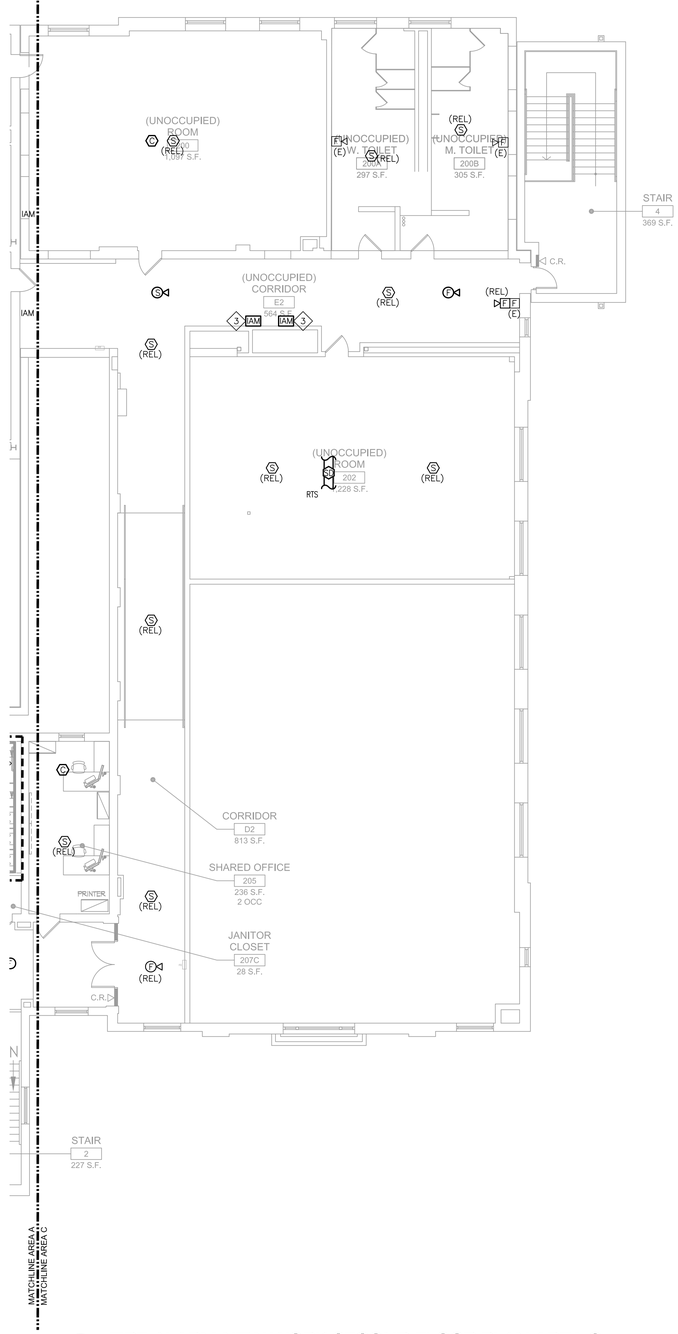
1. NOT USED
2. NOT USED
3. INSTALL FIRE ALARM RELAY FOR FIRE/SMOKE DAMPER RELEASE IN THE EVENT OF SMOKE DETECTION.

NOTES:

1. REFER TO DRAWING E-001 & E-002 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. ALL WORK SHOWN IS TO BE NEW, UNLESS OTHERWISE NOTED.
3. REFER TO FIRE ALARM SYSTEM NOTES ON DRAWING E304.



1 **FIRE ALARM NEW WORK SECOND FLOOR PLAN AREA B**
SCALE: 1/8"=1'0"



2 **FIRE ALARM NEW WORK SECOND FLOOR PLAN AREA C**
SCALE: 1/8"=1'0"

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers

636 Skippack Pike, Suite 200
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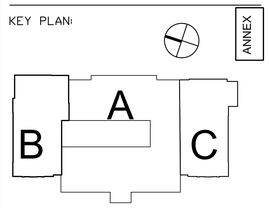
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:
FIRE ALARM 2ND FLR

Sheet No:
E-302B
Sheet 0 of 000

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KEY NOTES:

1. REMOVE AND REINSTALL DETECTOR UNDER BASE BID TO ACCOMMODATE PARTIAL CEILING REMOVAL FOR MECHANICAL WORK.
2. NOT USED
3. INSTALL FIRE ALARM RELAY FOR FIRE/SMOKE DAMPER RELEASE IN THE EVENT OF SMOKE DETECTION UNDER BASE BID.
4. INSTALL FIRE ALARM RELAY FOR FIRE/SMOKE DAMPER RELEASE IN THE EVENT OF SMOKE DETECTION.

NOTES:

1. REFER TO DRAWINGS E-001 & E-002 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. ALL WORK SHOWN IS TO BE NEW, UNLESS OTHERWISE NOTED.
3. REFER TO FIRE ALARM SYSTEM NOTES ON DRAWING E304.

1 FIRE ALARM NEW WORK THIRD FLOOR PLAN

SCALE: 1/8"=1'0"

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
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Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
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LICENSE NO.: GE45368

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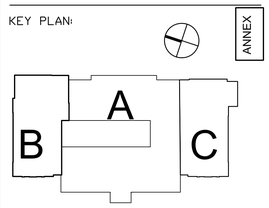

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Sheet Name:
FIRE ALARM 3RD FLR

Sheet No:
E-303A
Sheet 0 of 000

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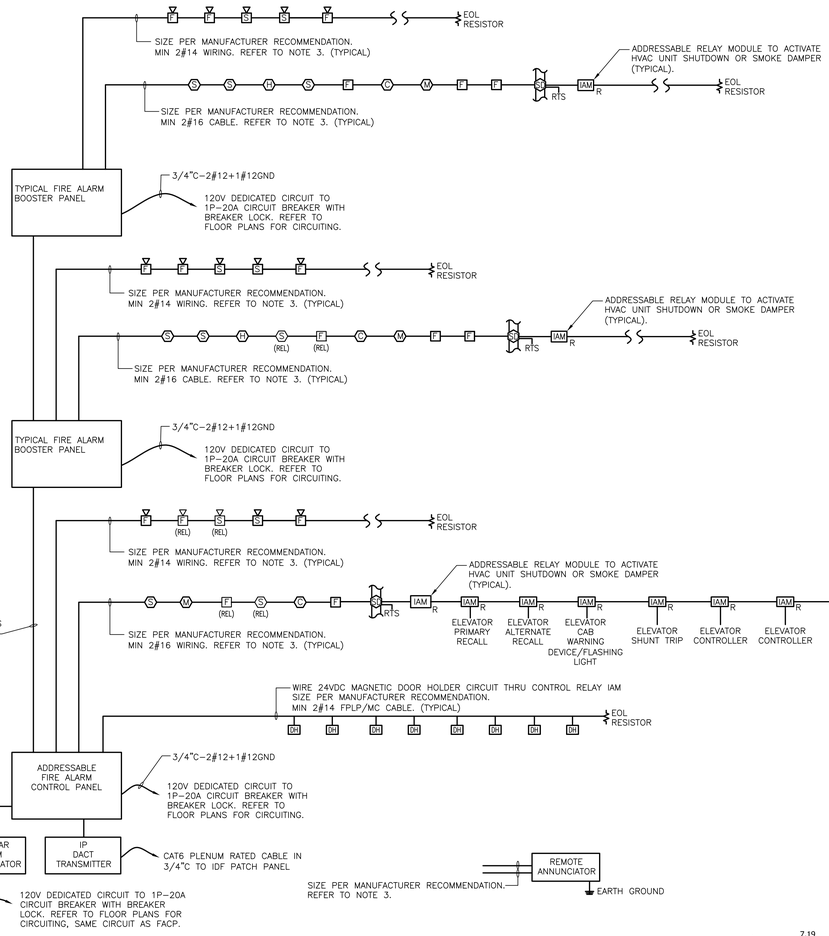


1 TYPICAL FIRE ALARM RISER DIAGRAM
NOT TO SCALE

FIRE ALARM SYSTEM NOTES:

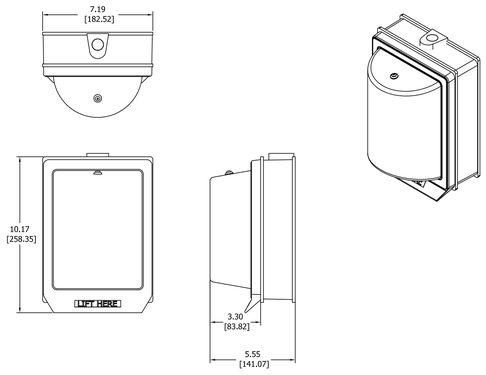
1. EXISTING FIRE ALARM SYSTEM IS EST-4. ALL NEW DEVICES SHALL BE LISTED TO OPERATE WITH EXISTING EST-4 FIRE ALARM PANEL.
2. CONTRACTOR SHALL HIRE AUTHORIZED INSTALLER TO PROVIDE DEVICES, PROGRAMING AND TESTING. FIRE ALARM VENDOR SHALL PROVIDE SHOP DRAWING, INCLUDING EXISTING AND NEW DEVICES AND EQUIPMENT. INTENT IS FOR CONTACTOR TO INSTALL ALL NEW FIRE ALARM WIRING TO EXISTING (E), REMOVE AND REINSTALL (RAR), RELOCATED (REL), AND NEW FIRE ALARM DEVICES IN THE ENTIRE BUILDING. WHERE EXISTING FIRE ALARM DEVICES ARE LOCATED IN INACCESSIBLE AREAS OUTSIDE OF RENOVATION AREA, SPLICE AND EXTEND WIRING TO NEW FIRE ALARM CIRCUIT.
3. ALL FIRE ALARM WIRING SHALL BE METAL-CLAD FPLP TYPE; AND WIRING INSTALLED IN CONDUIT WHERE EXPOSED ON WALLS IN MECHANICAL/ELECTRICAL SPACES. ALL FIRE ALARM WIRING SHALL BE SIZED AS REQUIRED BY THE FIRE ALARM MANUFACTURER.
4. IN GENERAL, ALL REQUIRED FIRE ALARM SYSTEM WIRING IS NOT SHOW ON THE PLAN DRAWINGS. INSTALLATION AND ROUTING OF THESE CIRCUITS AND WIRING SHALL BE DETERMINED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH FIELD CONDITIONS, FIRE ALARM DIAGRAMS, SPECIFICATIONS AND CODES.
5. LOCATIONS OF FIRE ALARM DEVICES AND EQUIPMENT SHOWN ON THE PLAN DRAWINGS IS DIAGRAMMATIC. EXACT LOCATIONS SHALL BE DETERMINED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH FIELD CONDITIONS AND THE FOLLOWING:
   - 5.1. CEILING MOUNTED DEVICES SHALL BE COORDINATED WITH SUSPENDED CEILING, LIGHT FIXTURES, SPEAKERS, DIFFUSERS, DUCTWORK, SPRINKLER HEADS, ETC., AND NFPA REQUIREMENTS.
   - 5.2. WALL MOUNTED DEVICES SHALL BE COORDINATED WITH ALL OTHER WALL MOUNTED DEVICES INCLUDING BUT NOT LIMITED TO ARCHITECTURAL ITEMS SUCH AS TACK AND WHITE BOARD, WALL CONSTRUCTION, ETC., AND NFPA AND IBC REQUIREMENTS. WHEREVER POSSIBLE LOCATE WALL MOUNTED DEVICES ON WALLS WHICH WILL PERMIT DEVICES TO BE FLUSH OR SEMI-FLUSH MOUNTED. SURFACE MOUNTED DEVICES WILL BE PERMITTED ONLY IN MECHANICAL ROOMS AND WHERE APPROVED BY THE ENGINEER, ARCHITECT, AND OWNER.
   - 5.3. COORDINATE FINAL INSTALLATIONS OF DUCT DETECTORS WITH MC IN FIELD.
6. A 100% TOTAL ACCEPTANCE TEST SHALL BE PERFORMED AT THE COMPLETION OF THE FIRE ALARM SYSTEM INSTALLATION ASSOCIATED WITH THE MAIN AND ANNEXS BUILDINGS ACCORDING TO IBC/2021-907.16.
7. HEAT DETECTORS IN ELEVATOR MACHINE ROOMS AND SHAFTS SHALL BE PROGRAMMED TO SIGNAL CONTROL MODULES FOR ELEVATOR SHUTDOWN VIA SHUNT TRIP OF ELEVATOR FEEDER CIRCUIT BREAKERS.
8. DUCT SMOKE DETECTORS SHALL BE PROVIDED IN THE SUPPLY AND RETURN DUCTS OF EACH HVAC SYSTEM OVER 2,000 CFM AND AT LOCATIONS REQUIRED BY IMC/2021. DETECTORS INCLUDING HOUSINGS AND SAMPLING TUBES SHALL BE FURNISHED AND WIRED BY THE ELECTRICAL CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR.
9. PROVIDE A DEDICATED CONTROL RELAY MODULE FOR EACH DUCT SMOKE DETECTOR TO BE PROGRAMMED FOR SHUTDOWN SIGNAL OF HVAC SYSTEM TO INCLUDE FAN MOTOR(S) AND DAMPER(S). LOW VOLTAGE ATC CONTROL CIRCUIT WIRING BETWEEN CONTROL RELAY MODULES AND UNIT SHALL BE FURNISHED AND INSTALLED BY THE MC CONTRACTOR.
10. LOCATE REMOTE INDICATING LIGHT/TEST SWITCH ASSOCIATED WITH EACH DUCT SMOKE DETECTOR
    - MOUNTED IN ACCESSIBLE CEILING.
    - WHERE LOCATED IN AREAS WITHOUT ACCESSIBLE CEILING MOUNT ON THE WALL AT 80" UNLESS OTHERWISE NOTED.
    - IN THE CORRIDORS MOUNT AT 9'-0" AFF MOUNTED TO CORRIDOR UNISTRUT SYSTEM.
11. ALL WORK SHALL COMPLY WITH THE APPLICABLE BUILDING CODE LOCAL ORDINANCE AND REGULATION, THE REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION AND NFPA 70 AND NFPA 72.
12. ALL CIRCUIT BREAKERS FEEDING FIRE ALARM PANELS AND POWER SUPPLIES SHALL BE MARKED RED.

EVENT	ACTION	TROUBLE SIGNAL @ FACP & REMOTE ANNUNCIATORS	SUPERVISORY SIGNAL @ FACP & REMOTE ANNUNCIATORS	ALARM SIGNAL @ FACP & REMOTE ANNUNCIATORS	ACTIVATES ALL SPEAKER/STROBES	ACTIVATES ASSOCIATED SPEAKER/STROBES	RELEASE FIRE CONTROL DOORS	SHUTDOWN ASSOCIATED HVAC UNIT	RELEASE FIRE/SMOKE DAMPERS IN MECHANICAL DUCTS	RECALLS ELEVATOR	ACTIVATES ELEVATOR SHUNT TRIP CIRCUIT BREAKER	ACTIVATE LOCAL TEMPORAL 4 SOUNDER BASE
SMOKE/HEAT DETECTOR ACTIVATION			X	X	X		X		X			
MANUAL PULL STATION ACTIVATION			X						X			
CARBON MONOXIDE DETECTION			X									X
WATERFLOW SWITCH ACTIVATION				X	X		X					
TAMPER SWITCH ACTIVATION			X									
DUCT SMOKE DETECTOR ACTIVATION			X					X	X			
ELEVATOR SHAFT OR LANDING SMOKE DETECTOR				X	X	X				X		
ELEVATOR SHAFT HEAT DETECTOR				X	X	X				X	X	

2 FIRE ALARM EVENT MATRIX
NO SCALE

NOTES:

1. REFER TO DRAWINGS E-001 & E-002 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. REFER TO FIRE ALARM SYSTEM NOTES ON DRAWING E304.



NOTE: COVER SHALL STI MODEL #STI-1200 OR APPROVED EQUAL.

3 FIRE ALARM PULL STATION COVER DETAIL
NOT TO SCALE

SPARE COMPONENTS AND WORK:

CONTRACTOR SHALL INCLUDE THE FOLLOW IN THE BASE CONTRACT BID:

1. FIRE ALARM ATTIC STOCK:
   - a. (10) SMOKE DETECTORS WITH STANDARD BASE
   - b. (10) MULTI-CRITERIA DETECTORS WITH CARBON MONOXIDE ALARM BASES
   - c. (5) CONVENTIONAL HEAT DETECTOR
   - d. (5) FIRE ALARM STROBES
   - e. (10) FIRE ALARM SPEAKER/STROBES
   - f. (10) ADDRESSABLE RELAY
   - g. (10) ADDRESSABLE MONITOR MODULE
   - h. (5) DUCT MOUNTED SMOKE DETECTOR HOUSING AND 60" LONG SAMPLING TUBE.
   - i. (5) REMOTE TEST STATION
   - j. (5) FIRE ALARM PULL STATION
2. ADDITIONAL FIRE ALARM SYSTEM PROGRAMMING OF ATTIC STOCK DEVICES, IF DETERMINED NECESSARY TO INSTALL DURING CONSTRUCTION.
3. FURNISH AND INSTALL THE FOLLOWING AT THE DIRECTION OF THE ENGINEER, AS NEEDED FOR UNFORESEEN FIELD CONDITIONS
   - a. 500' OF MC-FPLP ALARM CABLE

4 SPARE COMPONENTS AND WORK
NOT TO SCALE

M/E/P Engineer:
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Consulting M/E/P Engineers
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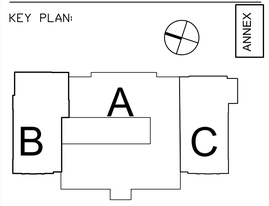
KEY PLAN:



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Drawing Information:
Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:
FA RISER DIAGRAM

Sheet No:
E-304
Sheet 0 of 000

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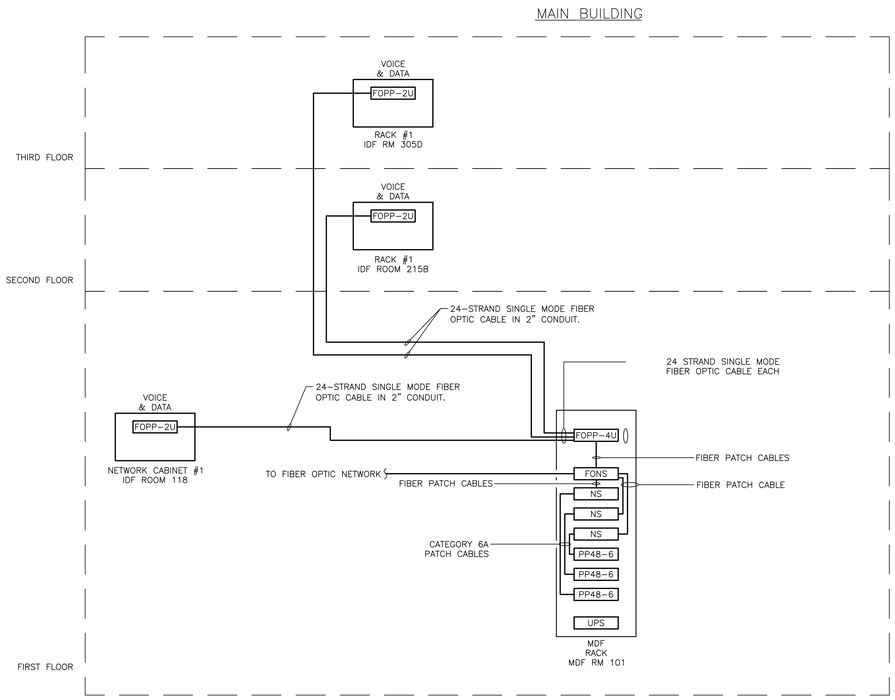
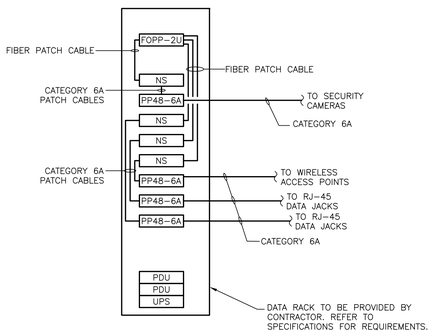


3 COMMUNICATIONS RISER DIAGRAM

SCALE: NOT TO SCALE

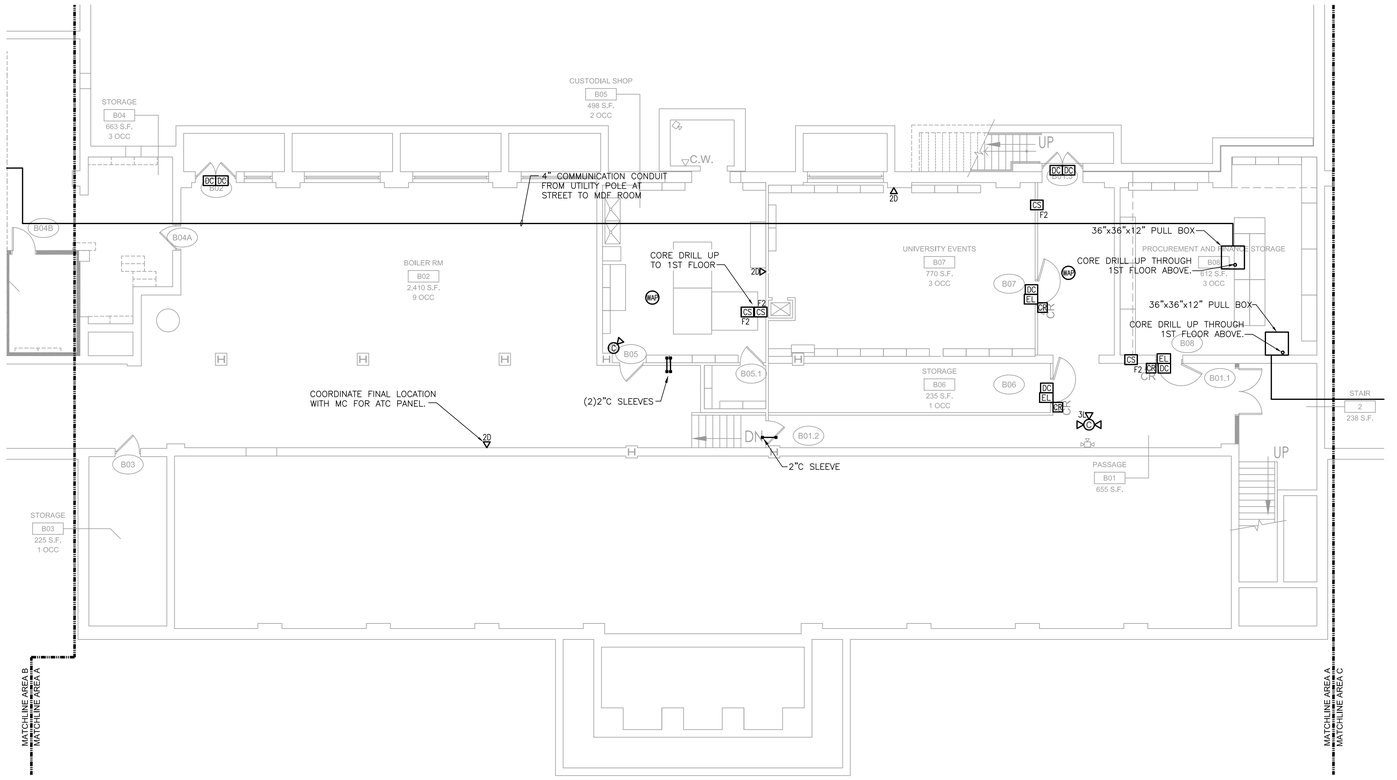


2 TYPICAL IDF/MDF COMMUNICATIONS RACK DIAGRAM

SCALE: NOT TO SCALE

COMMUNICATIONS BLOCK DIAGRAM LEGEND

FOPP-4U	FIBER OPTIC TERMINATION PANEL, REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
FOPP-2U	FIBER OPTIC TERMINATION PANEL, REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
PP48-6A	48 PORT CAT6A PATCH PANEL, REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION.
SPD	SURGE PROTECTION RJ-45 DEVICE FOR PATCHING OF ALL EXTERIOR CAMERAS, REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION.
PDU	POWER DISTRIBUTION UNIT, REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION.
UPS	UNINTERRUPTIBLE POWER SUPPLY, 5KVA, BY UNIVERSITY
FONS	FIBER OPTIC NETWORK SWITCH, BY UNIVERSITY
NS	NETWORK SWITCH, BY UNIVERSITY



1 TELECOM/SECURITY/AV NEW WORK BASEMENT FLOOR PLAN PART A

SCALE: 1/8"=1'0"

NOTES:

1. REFER TO DRAWINGS E-001 & E-002 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. ALL WORK SHOWN IS TO BE NEW, UNLESS OTHERWISE NOTED.
3. BASEMENT DATA JACKS TO BE WIRED TO 1ST FLOOR MDF ROOM.
4. RISER DIAGRAM ON THIS DRAWINGS IS DIAGRAMATICAL AND TYPICAL. IT DOES NOT SHOW FINAL QUANTITIES. REFER TO FLOOR PLAN DRAWINGS AND SPECIFICATIONS FOR ALL REQUIRED EQUIPMENT, DEVICE, AND CABLE QUANTITIES.
5. MINIMUM QUANTITY OF SLEEVES FOR LOW-VOLTAGE CABLING ARE SHOWN ON THE PLANS. PROVIDE ADDITIONAL SLEEVES AS NECESSARY. PROVIDE FIRESTOPPING FOR SLEEVES AFTER CABLES ARE INSTALLED IN ALL FIRE-RATED WALLS. REFER TO ARCHITECTURAL DRAWINGS FIRE RATED WALL LOCATIONS.
6. UNIVERSITY WILL PROVIDE RACK ELEVATIONS PRIOR TO CONSTRUCTION FOR FINAL TERMINATION LOCATIONS OF EQUIPMENT WITHIN EACH RACK. CONTRACTOR SHALL ASSUME SUFFICIENT SLACK ON ALL CABLES TO ACCOMMODATE FINAL EQUIPMENT LOCATIONS.

SPARE COMPONENTS AND WORK:

CONTRACTOR SHALL INCLUDE THE FOLLOW IN THE BASE CONTRACT BID:

1. BACKBOX AND CONDUIT SPARE PARTS FOR LOW-VOLTAGE WORK TO BE FURNISHED AND INSTALLED BY EC AT THE DIRECTION OF THE ENGINEER:
   a. (10) DEEP 4-11/16" SQUARE BACKBOXES EACH WITH 10' OF 1-1/4" CONDUIT INSTALLED FROM BOX UP WALL TO CEILING ABOVE. INCLUDE 2-GANG MUD-RING ADAPTER AND PLASTIC CONDUIT BUSHINGS ON BOTH ENDS OF CONDUIT AND PULL STRING.
   b. (10) DOUBLE GANG DEEP BACKBOXES EACH WITH 10' OF 1" CONDUIT INSTALLED FROM BOX UP WALL TO CEILING ABOVE. INCLUDE 1-GANG MUD-RING ADAPTER AND PLASTIC CONDUIT BUSHINGS ON BOTH ENDS OF CONDUIT AND PULL STRING.
   c. (10) SINGLE GANG BACKBOXES EACH WITH 10' OF 3/4" CONDUIT INSTALLED FROM BOX UP WALL TO CEILING ABOVE. INCLUDE PLASTIC CONDUIT BUSHINGS ON BOTH ENDS OF CONDUIT AND PULL STRING.
2. (20) DATA DROP TO INCLUDE:
   a. (20) SINGLE GANG BACKBOXES EACH WITH 10' OF 3/4" CONDUIT INSTALLED FROM BACKBOX UP WALL TO CEILING ABOVE. INCLUDE PLASTIC CONDUIT BUSHINGS ON BOTH ENDS OF CONDUIT.
   b. 200' CATAGORY 6A PLENUM RATED CABLE FOR EACH DATA DROP BACK TO PATCH PANEL WITH TERMINATIONS AT BOTH ENDS.
   C. (20) SINGLE GANG PLATES FOR DATA JACK.

4 SPARE COMPONENTS AND WORK

NOT TO SCALE

M/E/P Engineer:
SCHILLER AND HERSH ASSOCIATES, INC.
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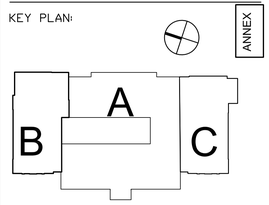

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NOTES:

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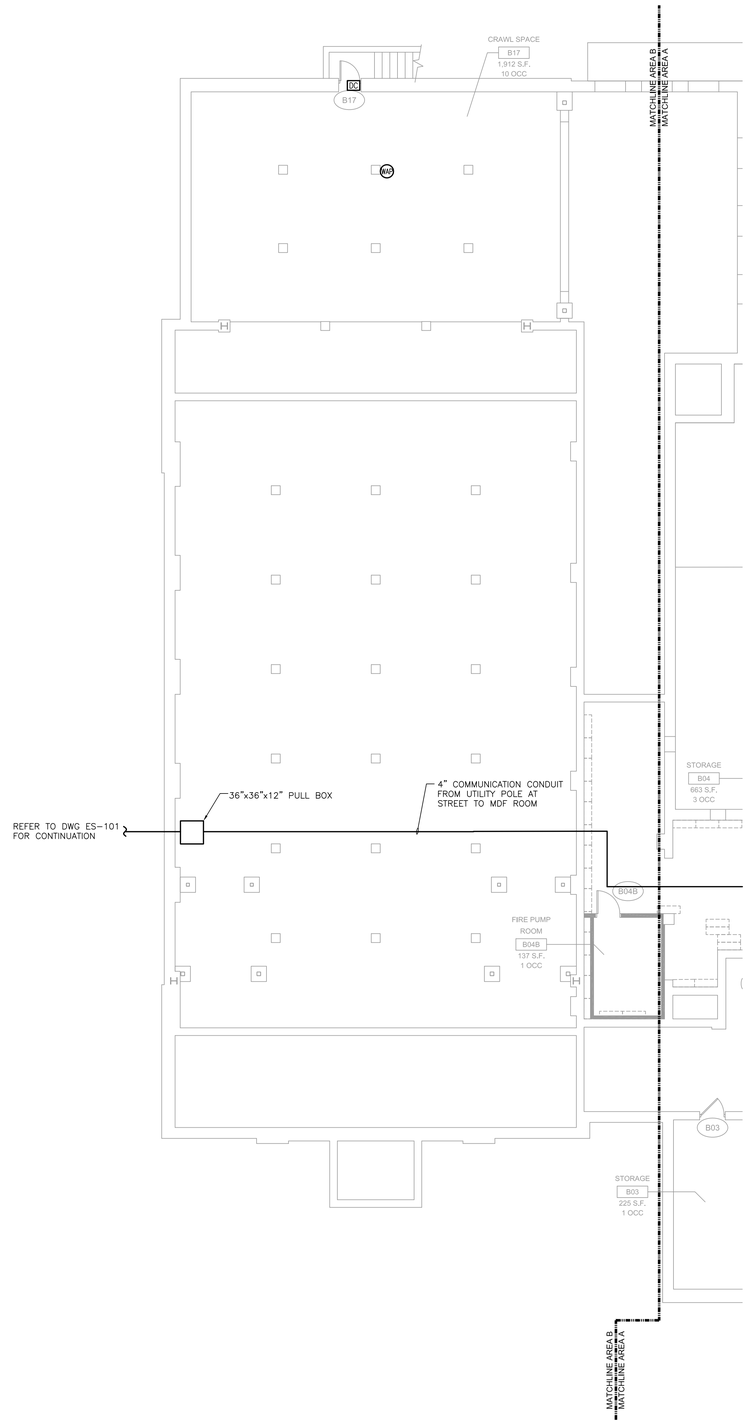
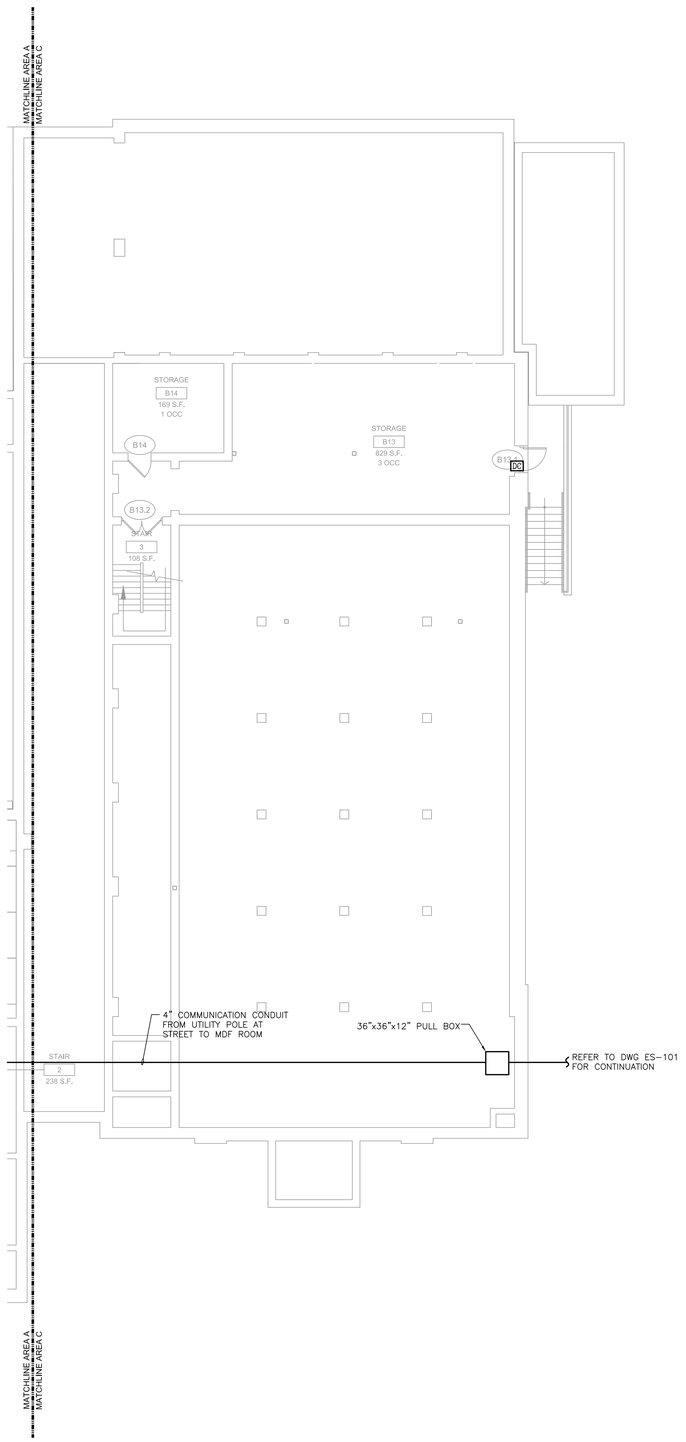
2. ALL WORK SHOWN IS TO BE NEW, UNLESS OTHERWISE NOTED.
3. BASEMENT DATA JACKS TO BE WIRED TO 1ST FLOOR MDF ROOM.



1 TELECOM/SECURITY/AV NEW WORK BASEMENT FLOOR PLAN AREA B
SCALE: 1/8"=1'0"



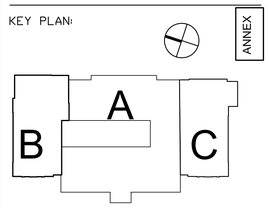
2 TELECOM/SECURITY/AV NEW WORK BASEMENT FLOOR PLAN AREA C
SCALE: 1/8"=1'0"

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



No.	Date	Description
	12/08/25	OUT TO BID
	12/03/25	DCA Submission

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Richard D. Alderiso , AIA
NJ RA AI 15023, NY RA 027416, PA RA 405474

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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:
TELECOM/SEC/AV BSMNT

Sheet No:
E-400B
Sheet 0 of 000

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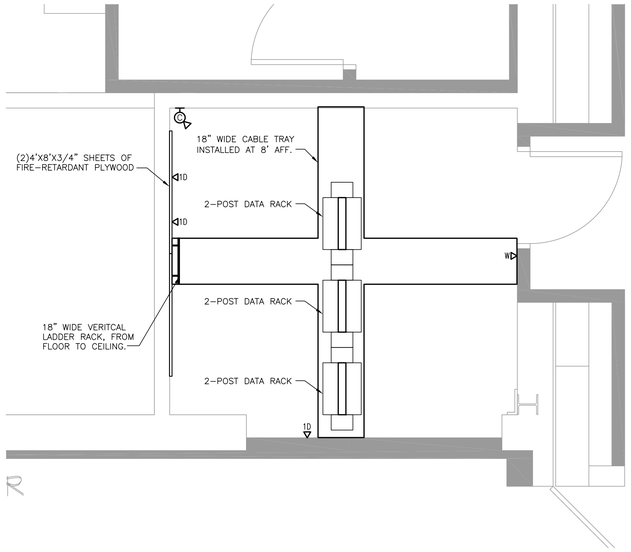
12/4/2025 10:55:22 AM

KEY NOTES:

1. COORDINATE INSTALLATION OF SECURITY CAMERA IN ELEVATOR CAB WITH ELEVATOR VENDOR. INSTALL CAT 6A CABLE FOR SECURITY CAMERA FROM PATCH PANEL IN MDF RACK TO ELEVATOR CONTROLLER. WIRING BETWEEN ELEVATOR CONTROLLER AND CAB TO BE PROVIDED AND INSTALLED BY ELEVATOR VENDOR.
2. COORDINATE INSTALLATION OF CARD READER IN ELEVATOR CAB WITH ELEVATOR VENDOR. INSTALL CARD ACCESS COMPOSITE CABLE FOR CARD READER FROM DOOR ACCESS CONTROLLER IN MDF ROOM TO ELEVATOR CONTROLLER. WIRING BETWEEN ELEVATOR CONTROLLER AND CAB TO BE PROVIDED AND INSTALLED BY ELEVATOR VENDOR. ELEVATOR CARD READER TO PROVIDE AUTHORIZED ACCESS TO BASEMENT, SECOND FLOOR, AND THIRD FLOOR.

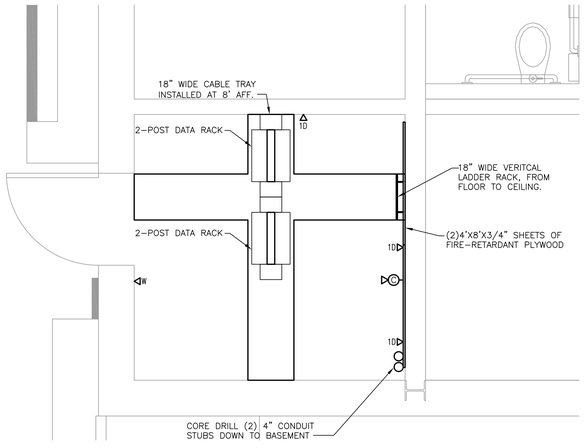
NOTES:

1. REFER TO DRAWING E-001 & E-002 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. ALL WORK SHOWN IS TO BE NEW, UNLESS OTHERWISE NOTED.
3. ALL TELECOM AND AUDIO/VISUAL CONDUITS SHALL HAVE PULL STRING FROM END TO END WITH PLASTIC CONDUIT BUSHING ON BOTH ENDS. REFER TO SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
4. MINIMUM QUANTITY OF SLEEVES FOR LOW-VOLTAGE CABLING ARE SHOWN ON THE PLANS. PROVIDE ADDITIONAL SLEEVES AS NECESSARY. PROVIDE FIRESTOPPING FOR SLEEVES AFTER CABLES ARE INSTALLED IN ALL FIRE-RATED WALLS. REFER TO ARCHITECTURAL DRAWINGS FIRE RATED WALL LOCATIONS.



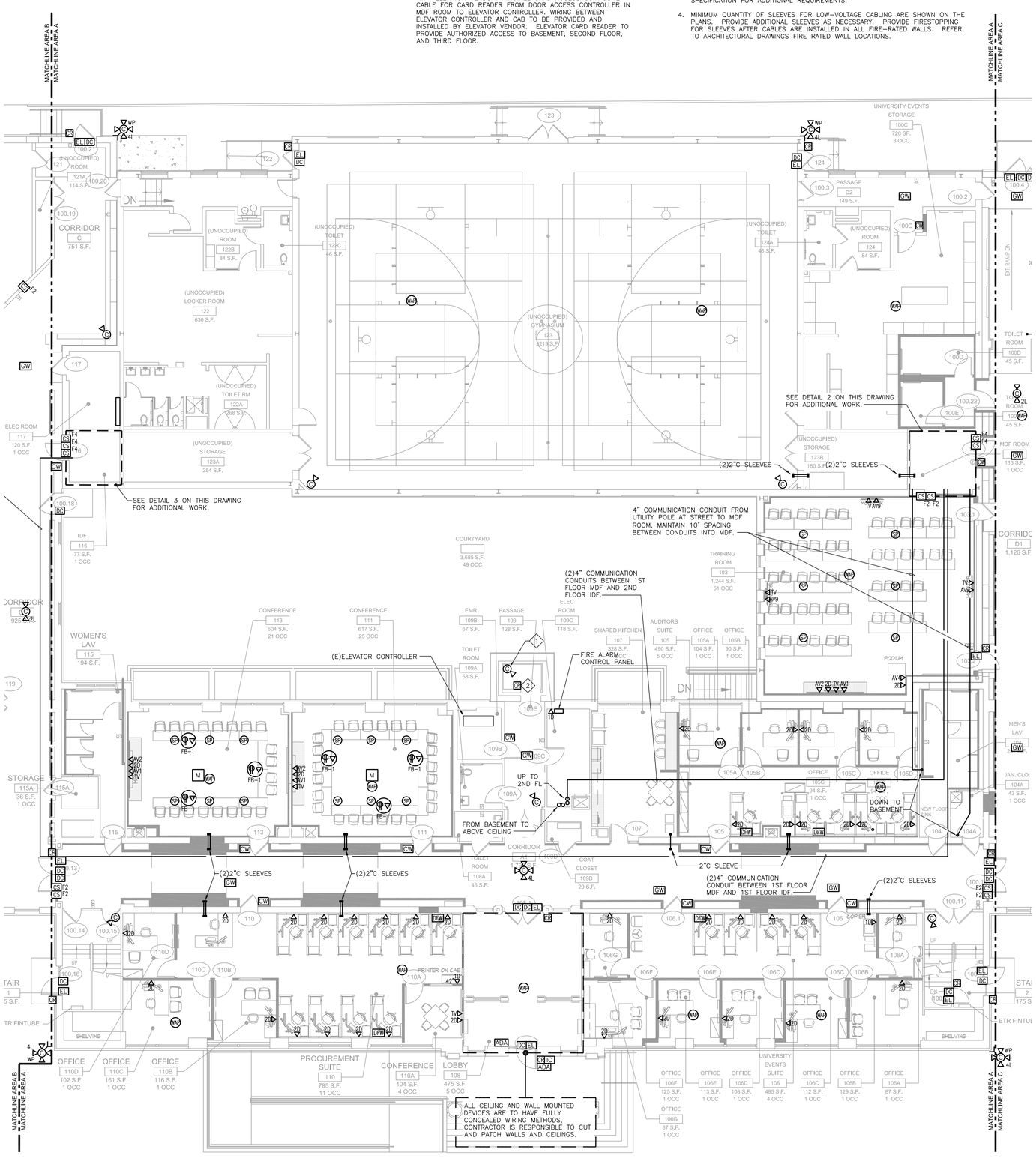
2 TELECOM/SECURITY/AV NEW WORK FIRST FLOOR MDF ROOM

SCALE: 1/2"=1'0"



3 TELECOM/SECURITY/AV NEW WORK FIRST FLOOR IDF ROOM

SCALE: 1/2"=1'0"



1 TELECOM/SECURITY/AV NEW WORK FIRST FLOOR PLAN AREA A

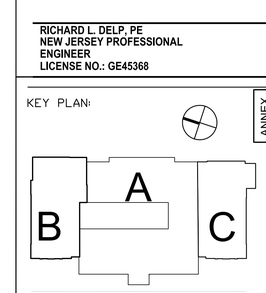
SCALE: 1/8"=1'0"

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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NJ RA AI 15023, NY RA 027416, PA RA 405474

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Client:
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Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:
TELECOM/SEC/AV 1ST FL

Sheet No:
E-401A
Sheet 0 of 000

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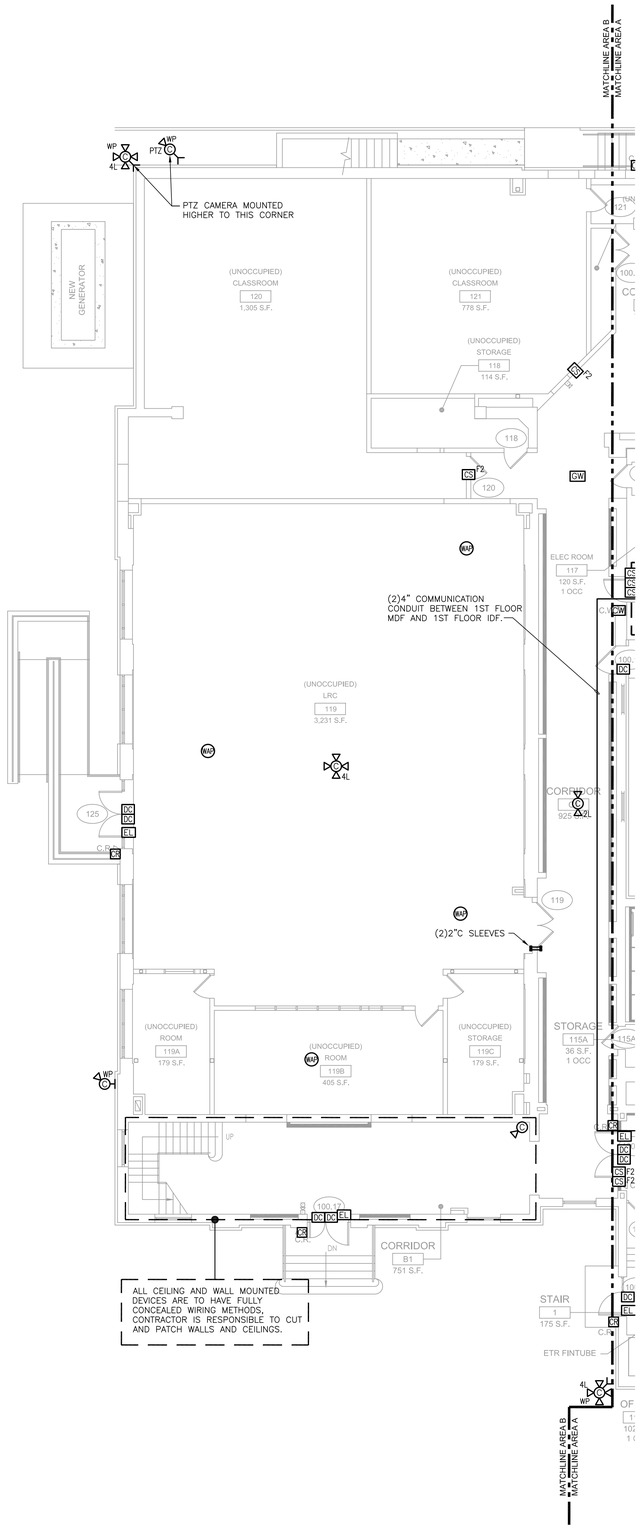
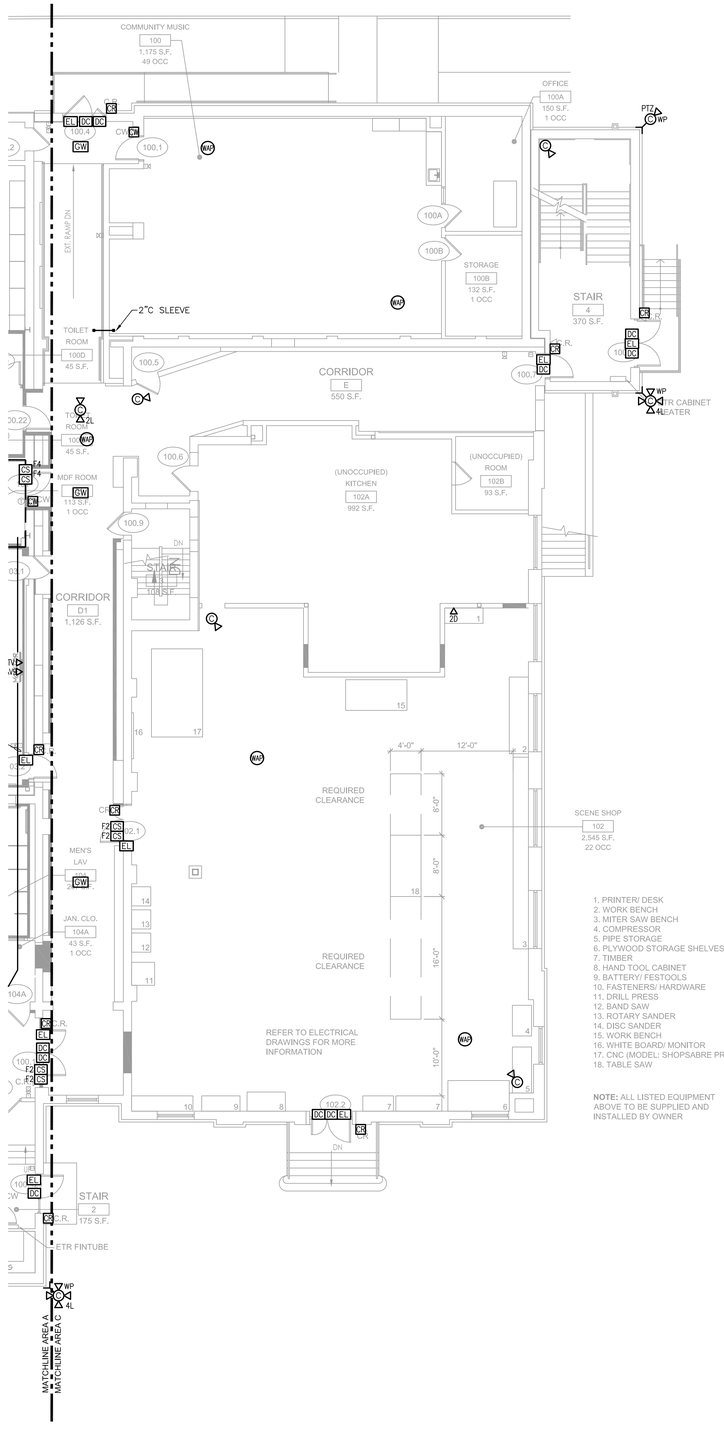
4. IN AREA "B", ALL DATA CABLES SHALL BE ROUTED TO AND TERMINATED IN DATA RACK IN IDF ROOM 116.



1 TELECOM/SECURITY/AV NEW WORK FIRST FLOOR PLAN AREA B

SCALE: 1/8"=1'0"



1. PRINTER/ DESK
2. WORK BENCH
3. MITER SAW BENCH
4. COMPRESSOR
5. PIPE STORAGE
6. PLYWOOD STORAGE SHELVES
7. TIMBER
8. HAND TOOL CABINET
9. BATTERY/ FESTOOLS
10. FASTENERS/ HARDWARE
11. DRILL PRESS
12. BAND SAW
13. ROTARY SANDER
14. DISC SANDER
15. WORK BENCH
16. WHITE BOARD/ MONITOR
17. CNC (MODEL: SHOPSABRE PRO40)
18. TABLE SAW

NOTE: ALL LISTED EQUIPMENT ABOVE TO BE SUPPLIED AND INSTALLED BY OWNER

2 TELECOM/SECURITY/AV NEW WORK FIRST FLOOR PLAN AREA C

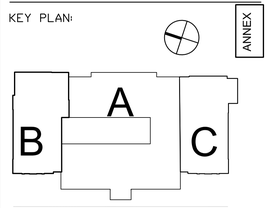
SCALE: 1/8"=1'0"

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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Drawing Information:

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Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:

TELECOM/SEC/AV 1ST FL

Sheet No:

E-401B

Sheet 0 of 000

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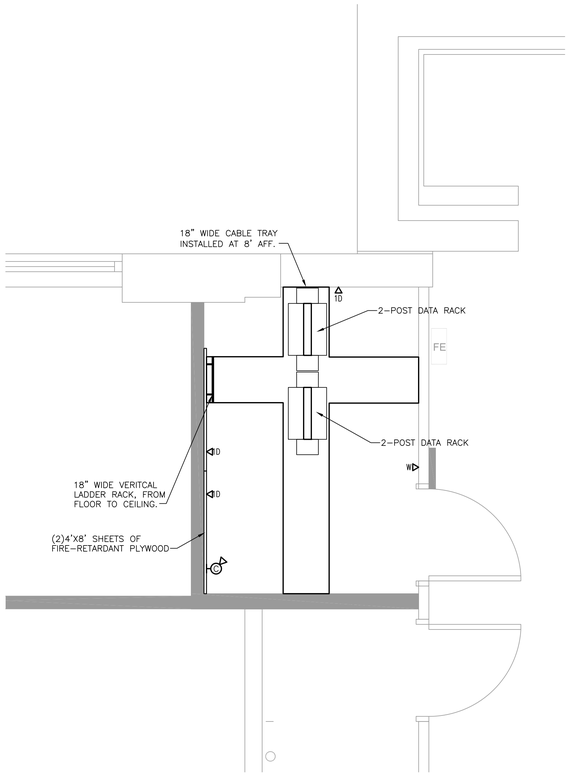
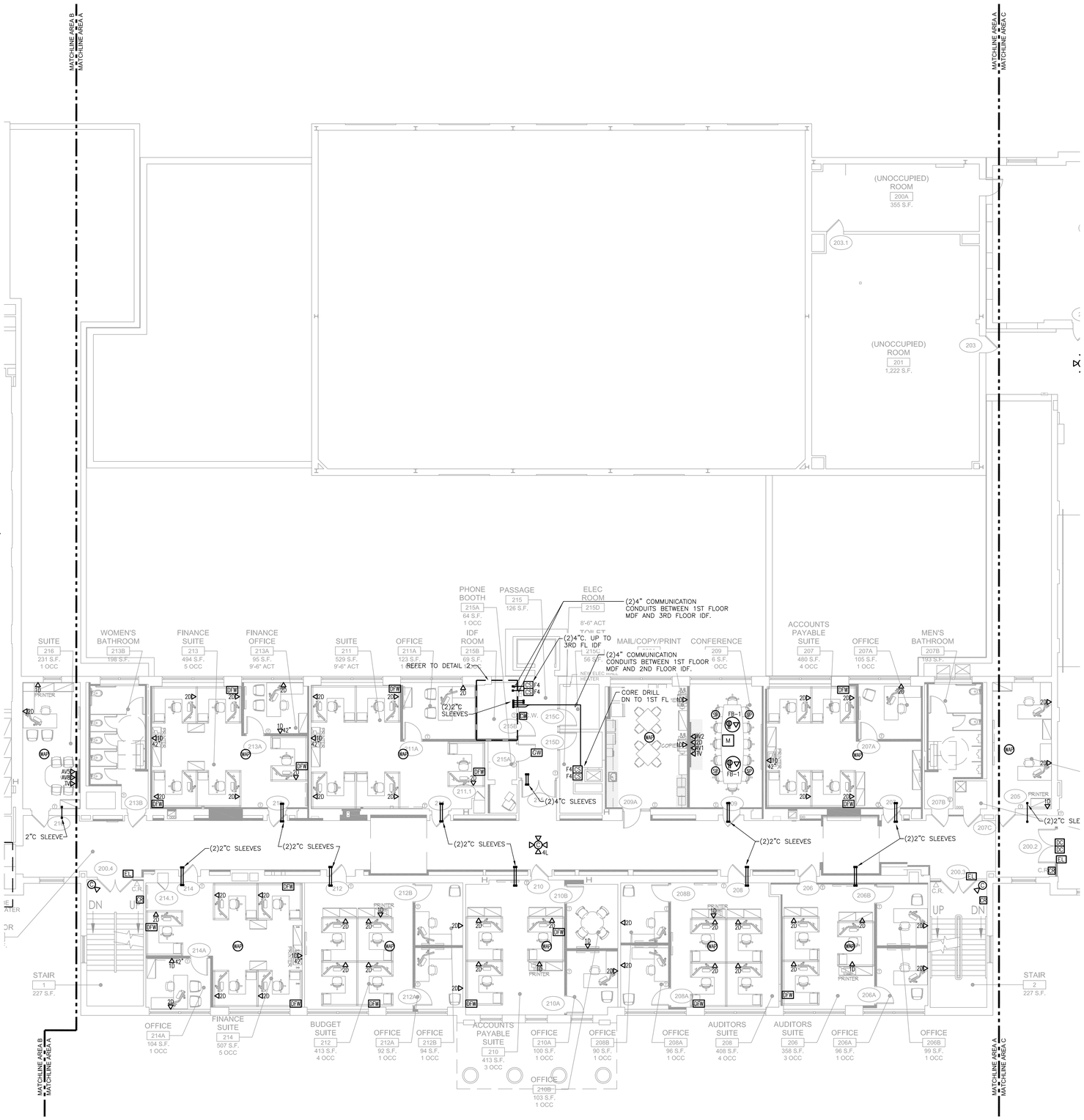


2 TELECOM/SECURITY/AV NEW WORK SECOND FLOOR IDF ROOM

SCALE: 1/2"=1'0"



1 TELECOM/SECURITY/AV NEW WORK SECOND FLOOR PLAN AREA A

SCALE: 1/8"=1'0"

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
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Blue Bell, PA 19422
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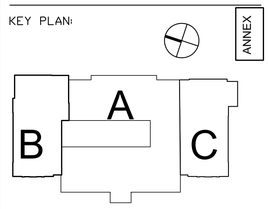
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:

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Glassboro, NJ 08028

Drawing Information:

Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:

TELECOM/SEC/AV 2ND FL

Sheet No:

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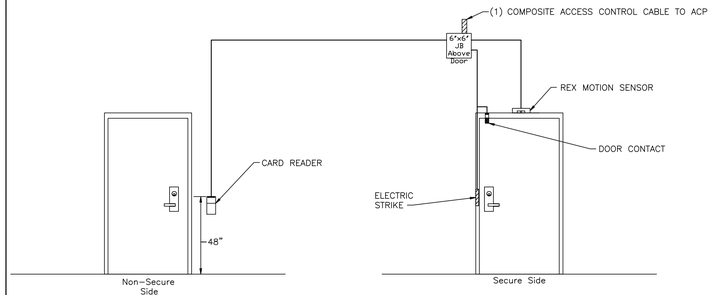
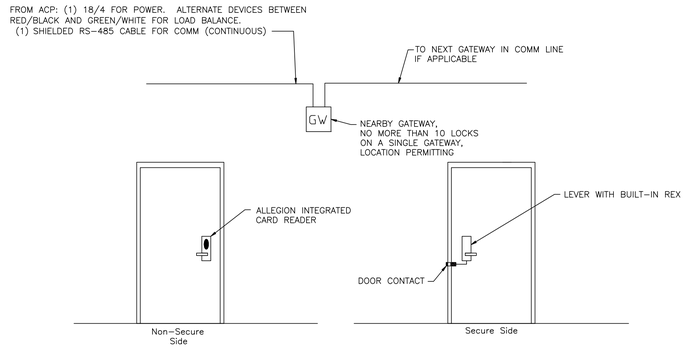
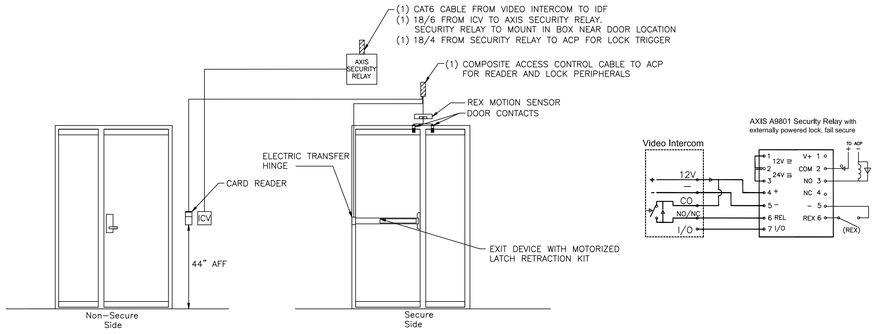


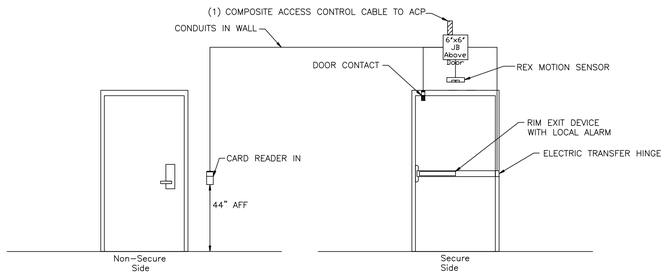
3 SINGLE DOOR WITH ELECTRIC STRIKE
SCALE: NOT TO SCALE



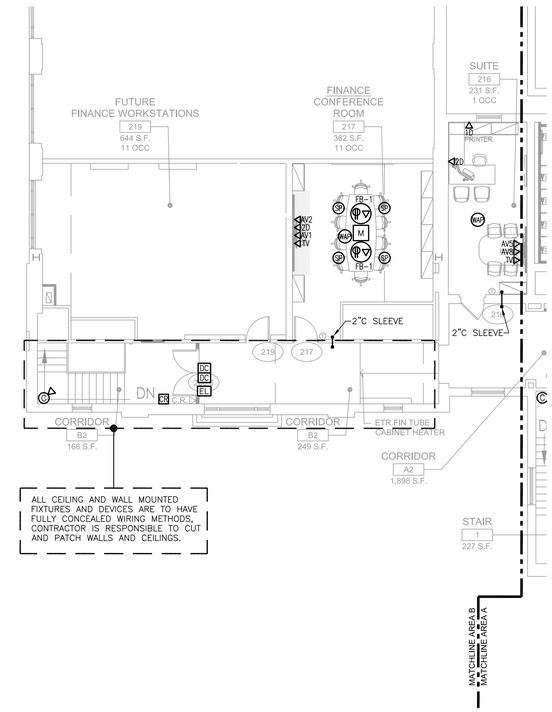
6 SINGLE DOOR WITH WIRELESS LOCKSET
SCALE: NOT TO SCALE



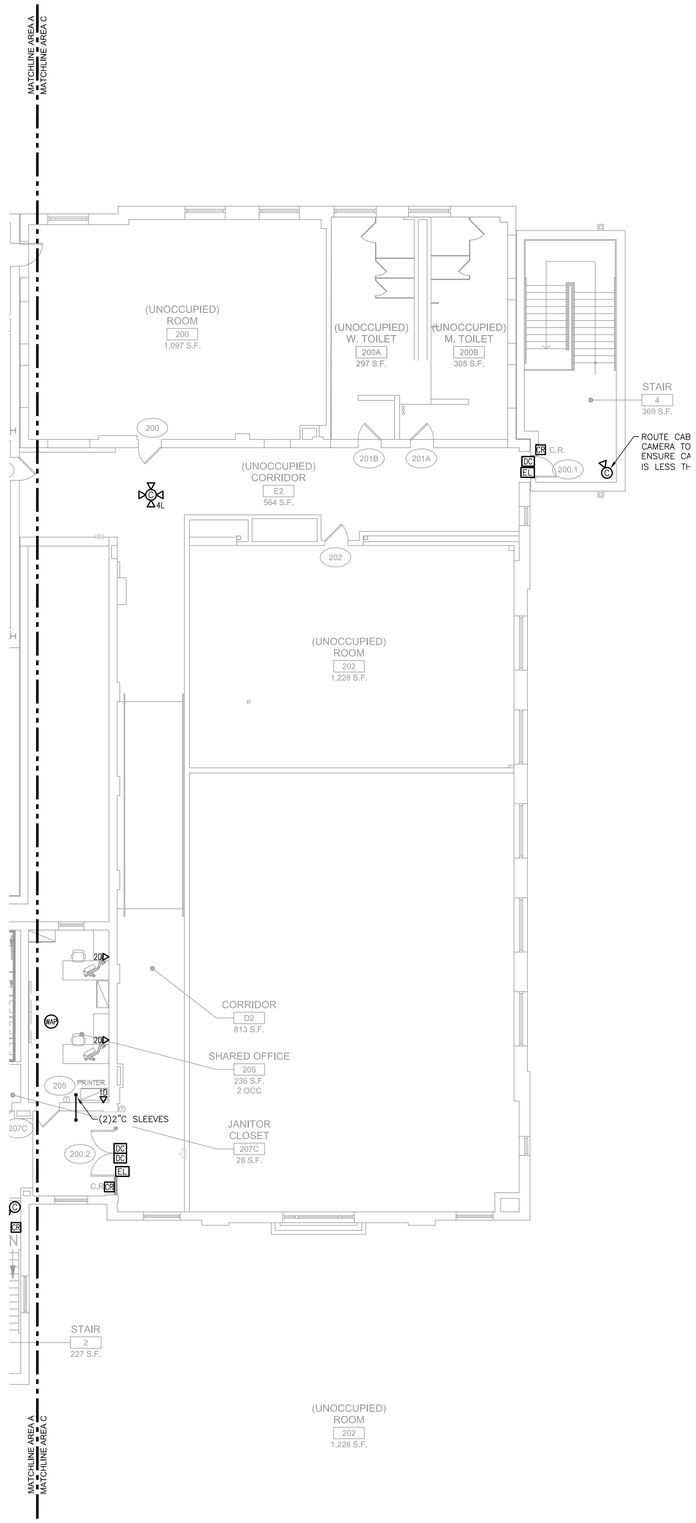
4 ONE AND A HALF DOORS WITH MOTORIZED LATCH RETRACTION AND VIDEO INTERCOM
SCALE: NOT TO SCALE



5 SINGLE DOOR WITH ELECTRIC RIM DEVICE
SCALE: NOT TO SCALE



1 TELECOM/SECURITY/AV NEW WORK SECOND FLOOR PLAN AREA B
SCALE: 1/8"=1'0"



2 TELECOM/SECURITY/AV NEW WORK SECOND FLOOR PLAN AREA C
SCALE: 1/8"=1'0"

NOTES:

1. REFER TO DRAWING E-001 & E-002 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
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M/E/P Engineer:

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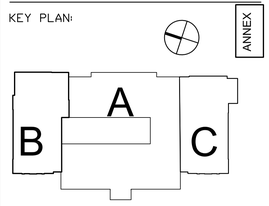
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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Richard D. Alderiso , AIA
NJ RA AI 15023, NY RA 027416, PA RA 405474

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Drawing Information:

Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:

TELECOM/SEC/AV 2ND FL

Sheet No:

E-402B

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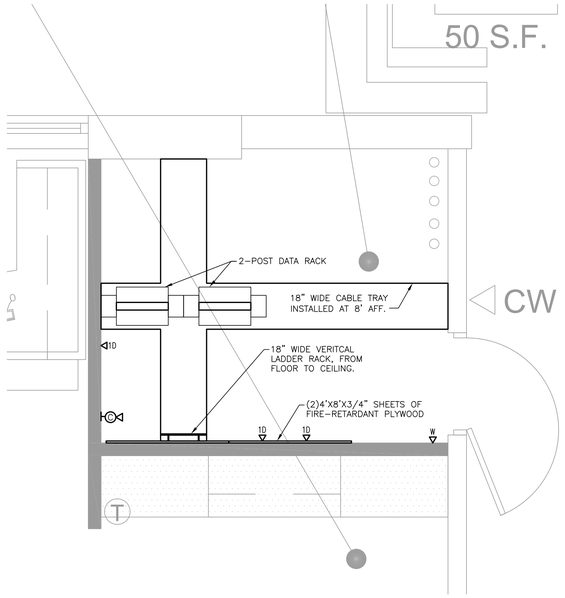

2 TELECOM/SECURITY/AV NEW WORK THIRD FLOOR IDF ROOM

SCALE: 1/2"=1'0"

NOTES:

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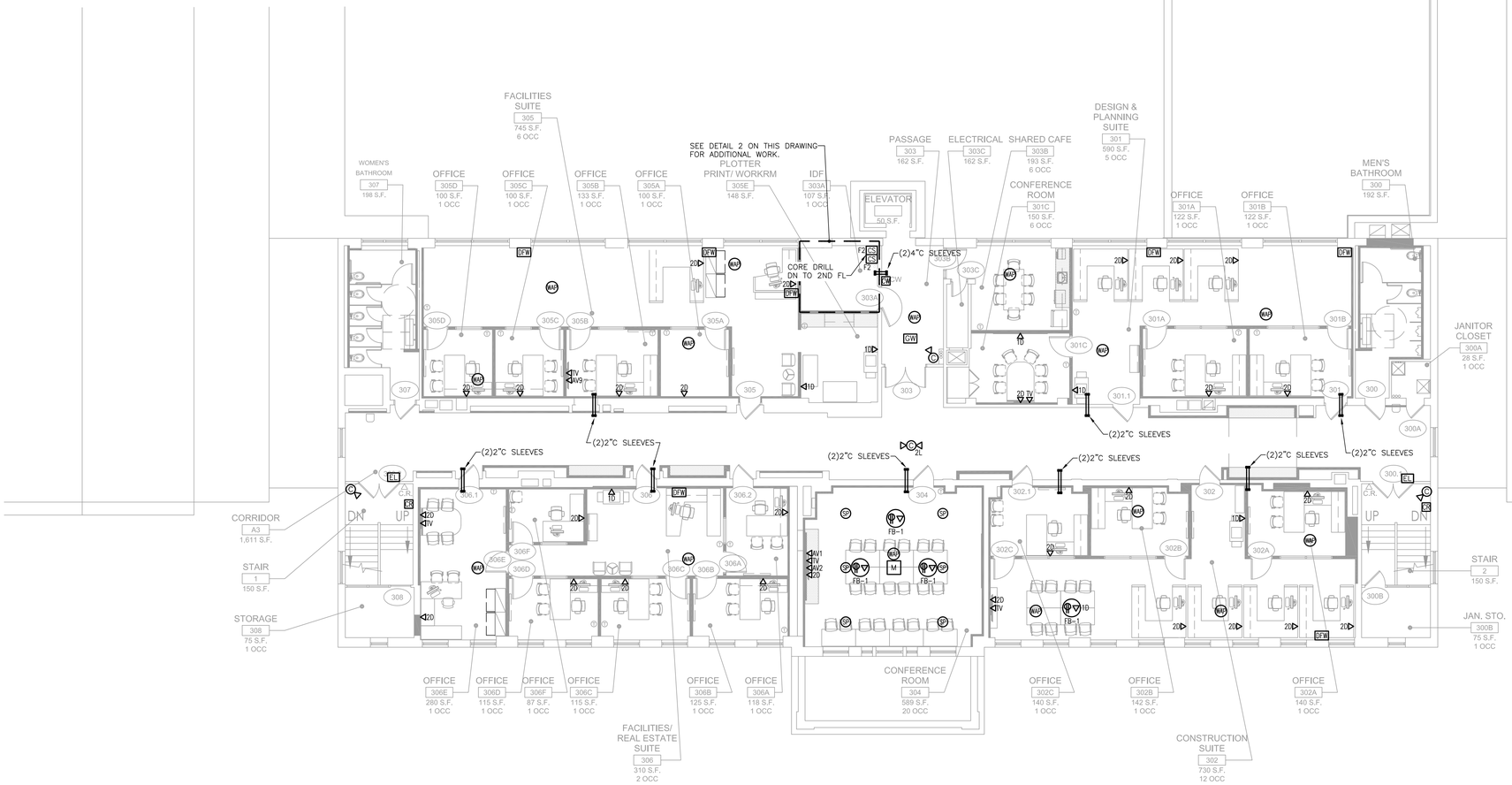

1 TELECOM/SECURITY/AV NEW WORK THIRD FLOOR PLAN

SCALE: 1/8"=1'0"

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
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RICHARD L. DELP, PE
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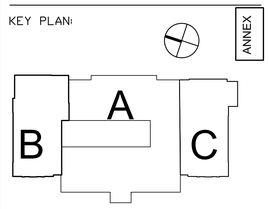
LICENSE NO.: GE45368

KEY PLAN:



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Drawing Information:
Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:
TELECOM/SEC/AV 3RD FL

Sheet No:
E-403A
Sheet 0 of 000

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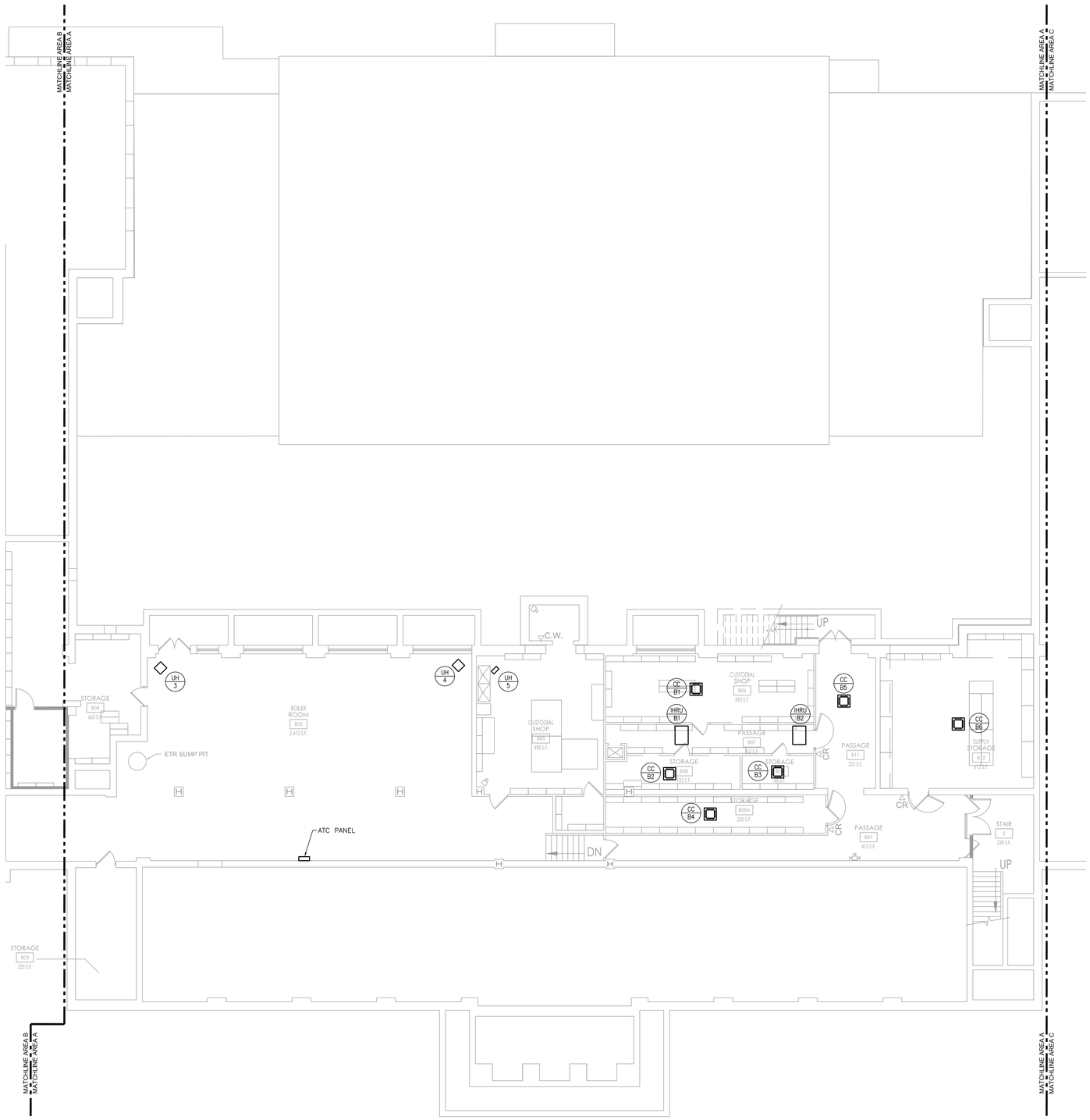


1 EQUIPMENT NEW WORK BASEMENT FLOOR PLAN AREA A

SCALE: 1/8"=1'0"

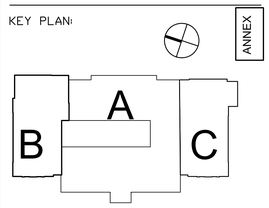
M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers

636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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Richard D. Alderiso , AIA
NJ RA AI 15023, NY RA 027416, PA RA 405474

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Client:

Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:

Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:

Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:

EQUIPMENT BASEMENT FL

Sheet No:

E-500A
Sheet 0 of 000

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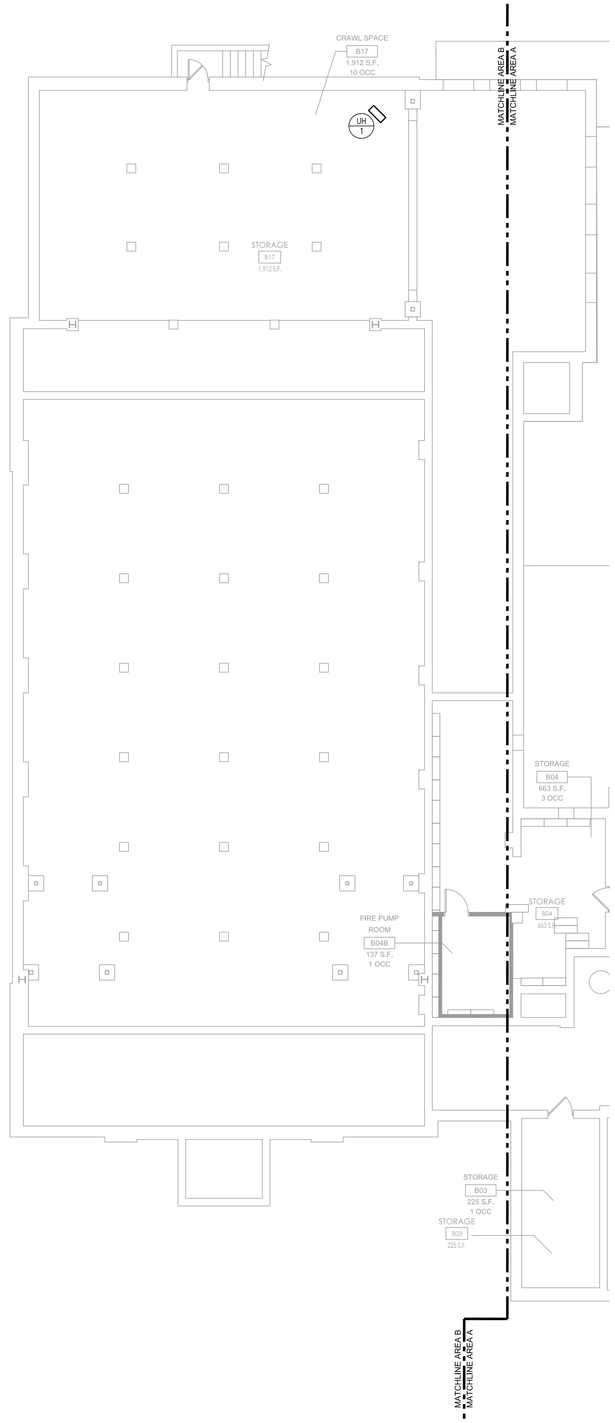
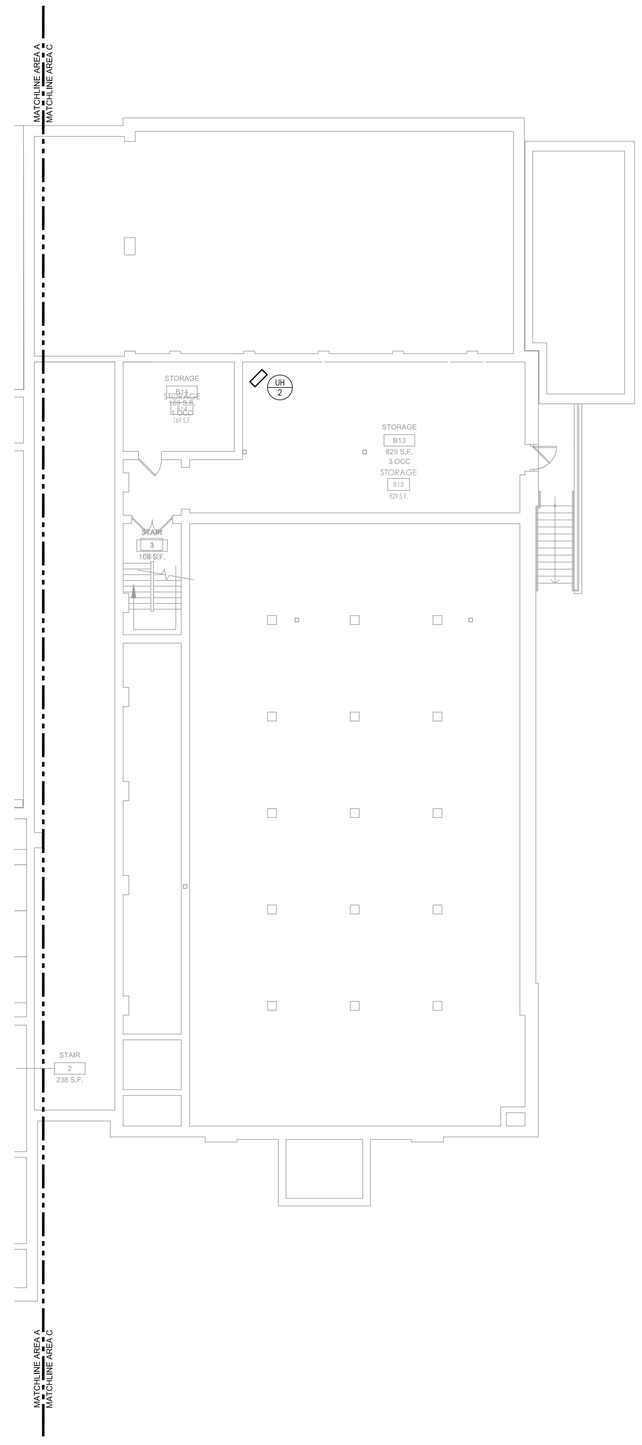


1 EQUIPMENT NEW WORK BASEMENT FLOOR PLAN AREA B

SCALE: 1/8"=1'0"



2 EQUIPMENT NEW WORK BASEMENT FLOOR PLAN AREA C

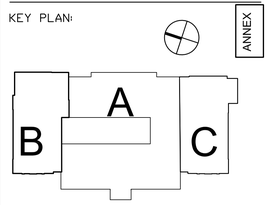
SCALE: 1/8"=1'0"

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
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BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:
EQUIPMENT BASEMENT FL

Sheet No:
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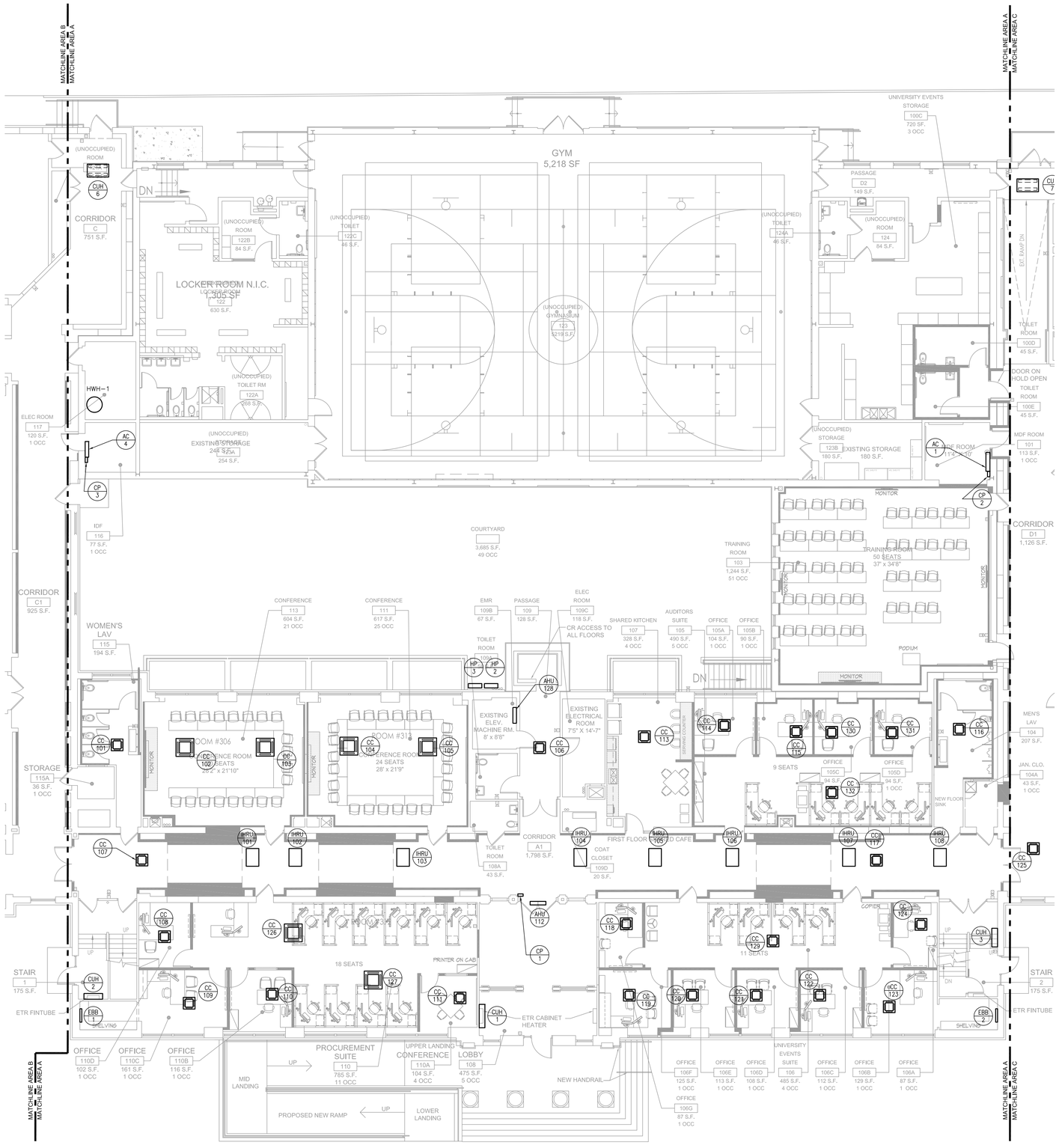

1 EQUIPMENT NEW WORK FIRST FLOOR PLAN AREA A

SCALE: 1/8"=1'0"

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
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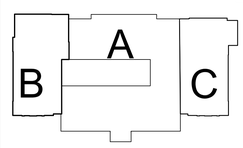
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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BLOCK 26 / LOT 412
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Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:
EQUIPMENT 1ST FLR

Sheet No:
E-501A
Sheet 0 of 000

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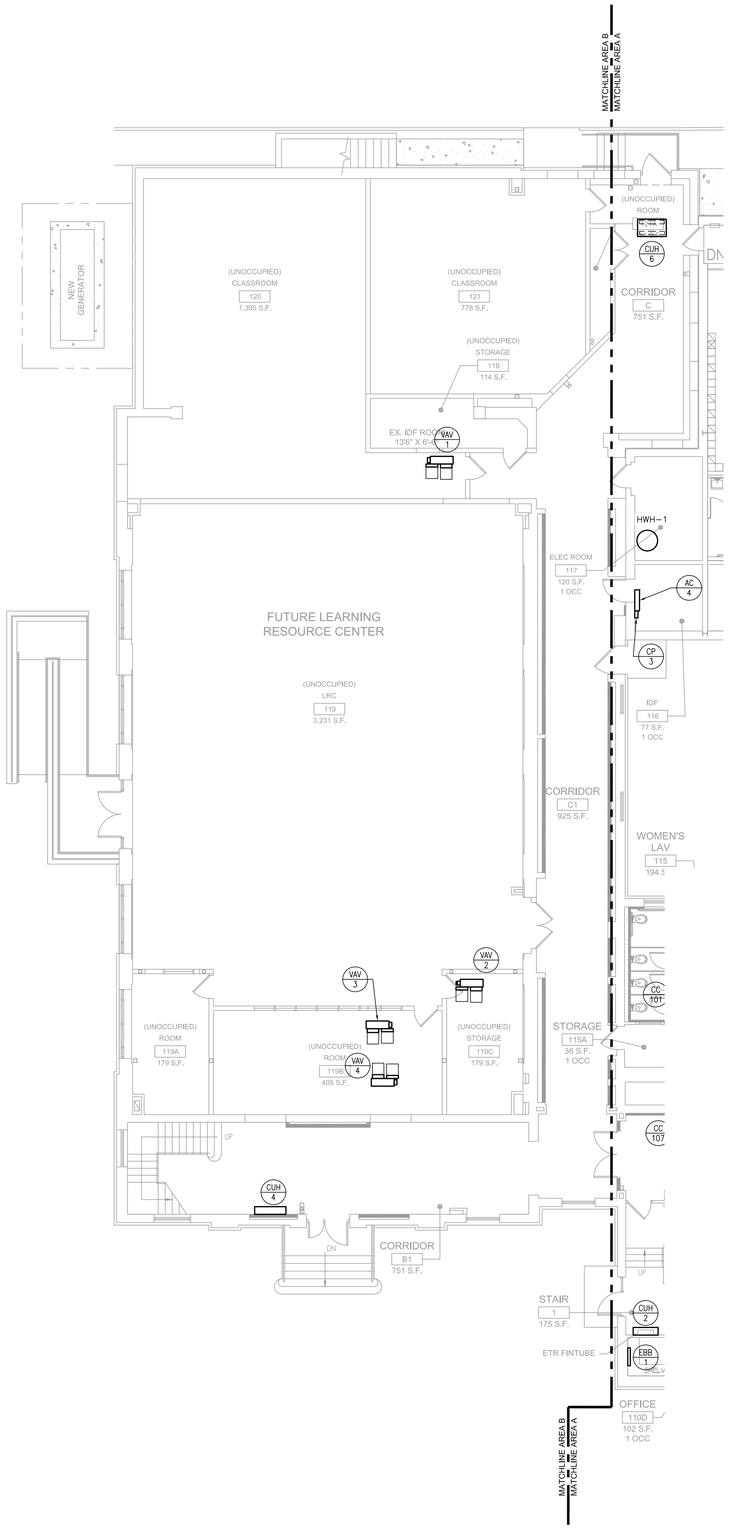
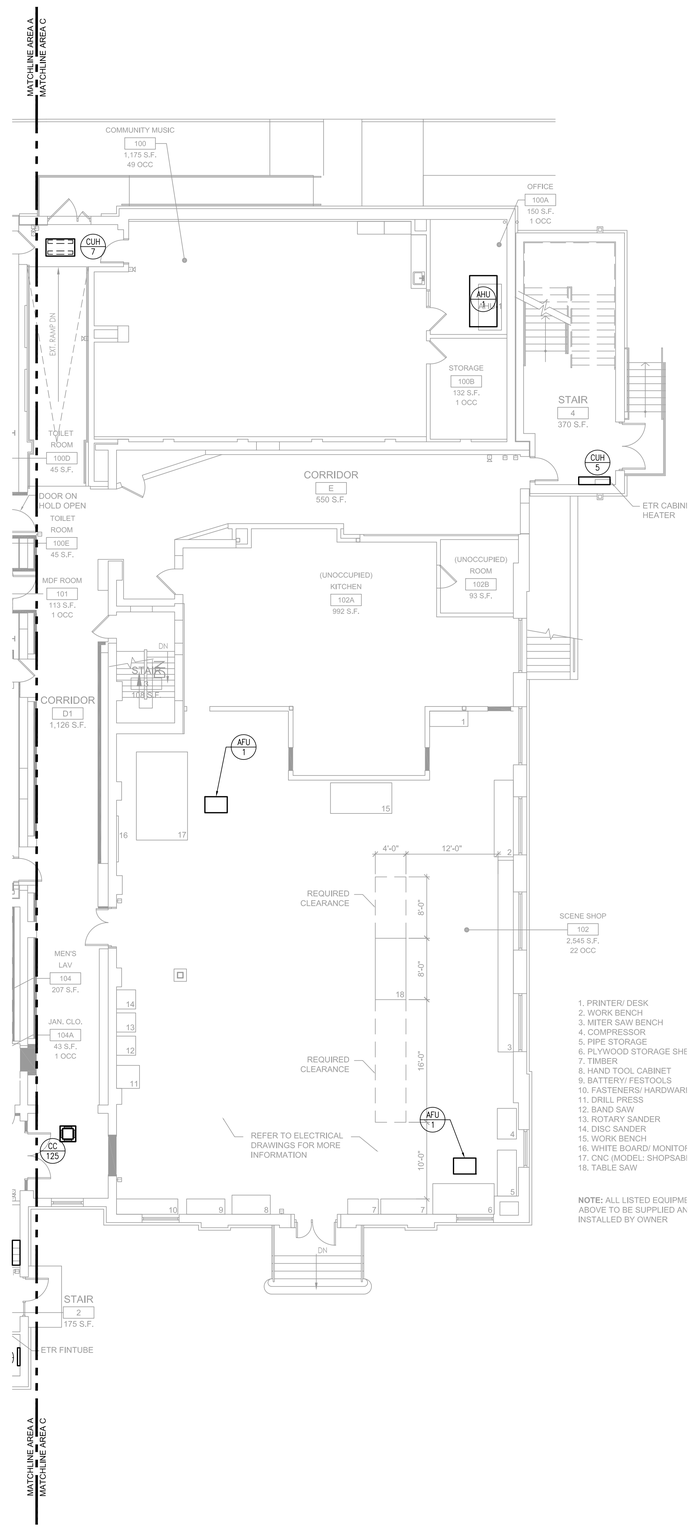


1 EQUIPMENT NEW WORK FIRST FLOOR PLAN AREA B

SCALE: 1/8"=1'0"



1. PRINTER/ DESK
2. WORK BENCH
3. MITER SAW BENCH
4. COMPRESSOR
5. PIPE STORAGE
6. PLYWOOD STORAGE SHE
7. TIMBER
8. HAND TOOL CABINET
9. BATTERY/ FESTOOLS
10. FASTENERS/ HARDWARI
11. DRILL PRESS
12. BAND SAW
13. ROTARY SANDER
14. DISC SANDER
15. WORK BENCH
16. WHITE BOARD/ MONITOI
17. CNC (MODEL: SHOPSABI
18. TABLE SAW

NOTE: ALL LISTED EQUIPME ABOVE TO BE SUPPLIED AN INSTALLED BY OWNER

ROOM #307

2 EQUIPMENT NEW WORK FIRST FLOOR PLAN AREA C

SCALE: 1/8"=1'0"

M/E/P Engineer:

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Consulting M/E/P Engineers
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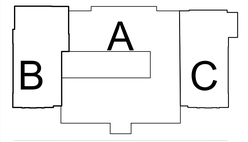
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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NJ RA AI 15023, NY RA 027416, PA RA 405474

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Client:
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201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:
EQUIPMENT 1ST FLR

Sheet No:
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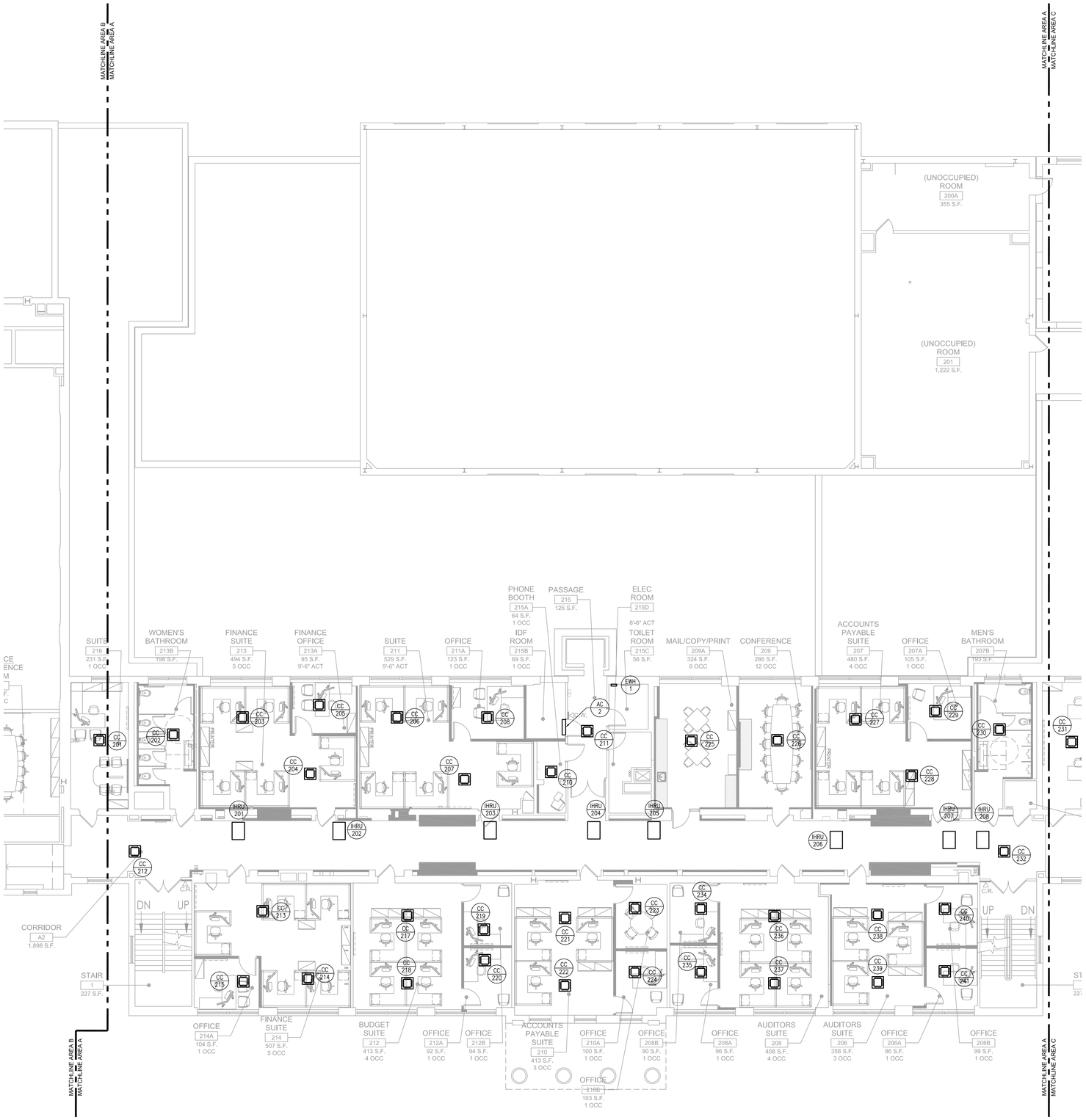

1 EQUIPMENT NEW WORK SECOND FLOOR PLAN AREA A

SCALE: 1/8"=1'0"

M/E/P Engineer:

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Consulting M/E/P Engineers
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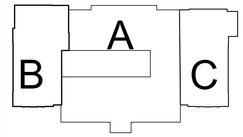
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
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BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:
EQUIPMENT 2ND FLR

Sheet No:
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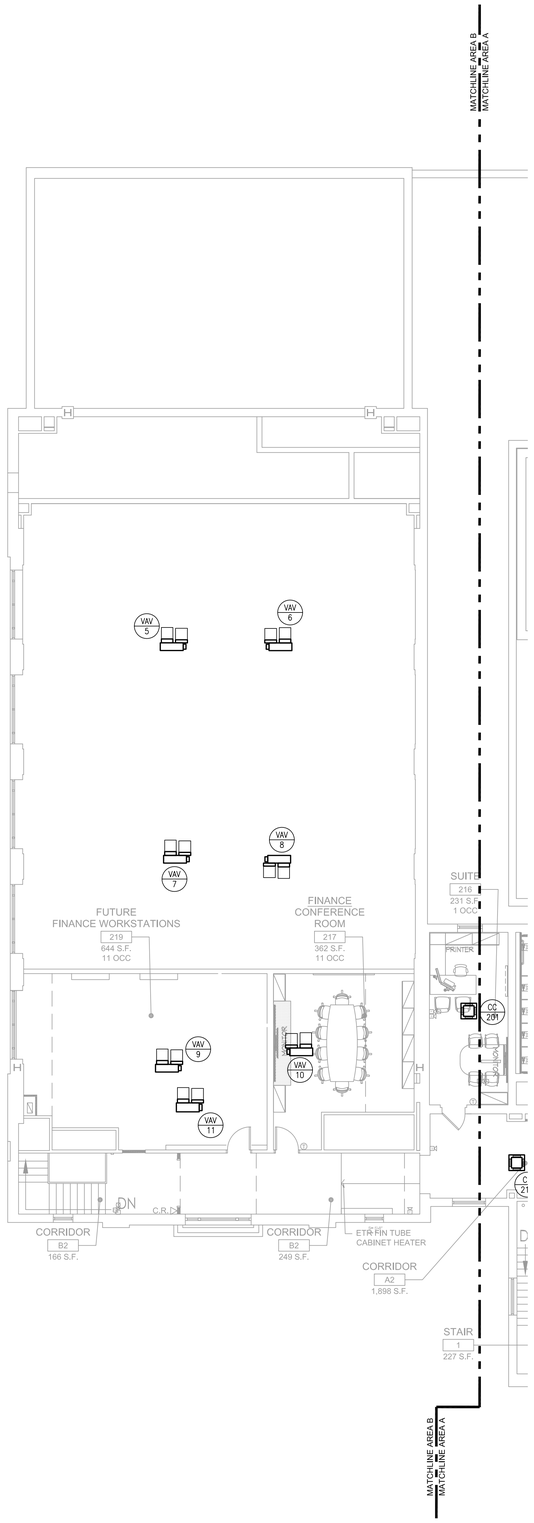
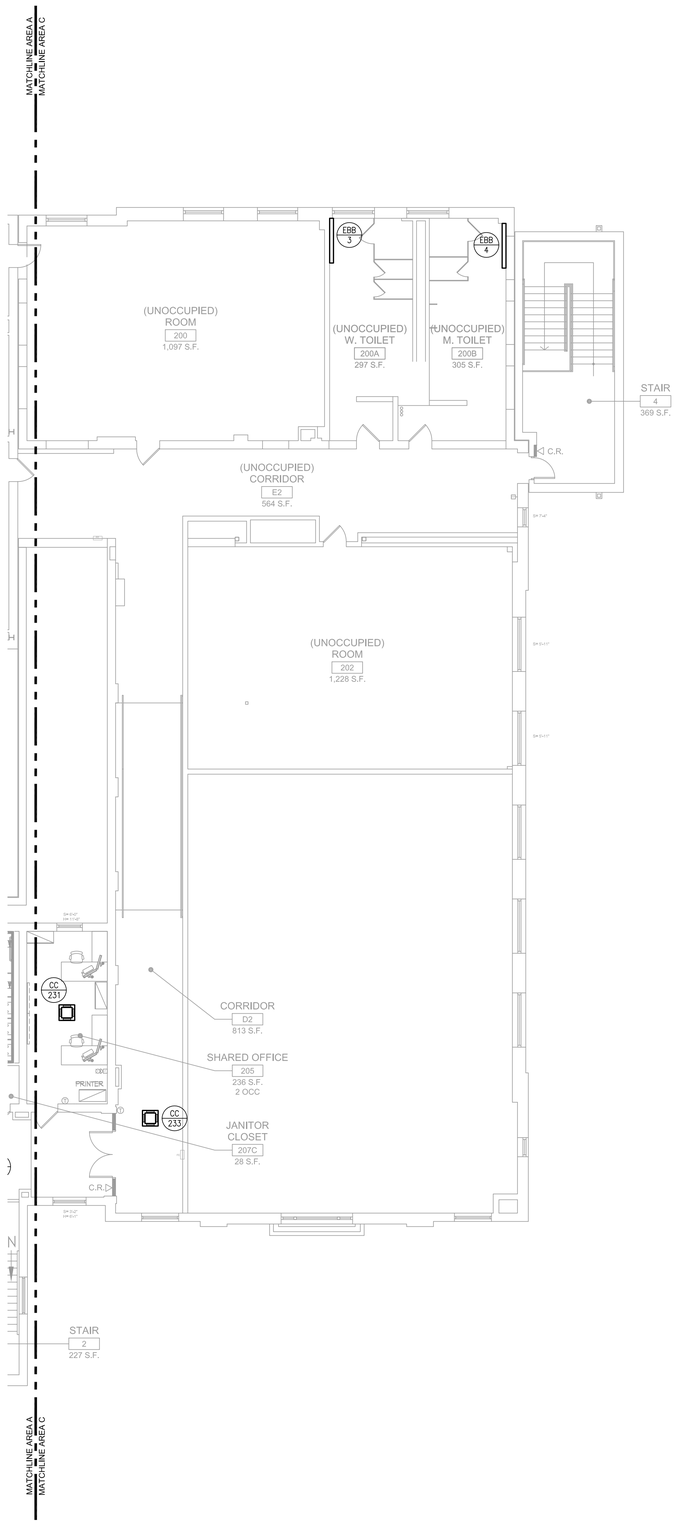


1 EQUIPMENT NEW WORK SECOND FLOOR PLAN AREA B
SCALE: 1/8"=1'0"



2 EQUIPMENT NEW WORK SECOND FLOOR PLAN AREA C
SCALE: 1/8"=1'0"

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M/E/P Engineer:

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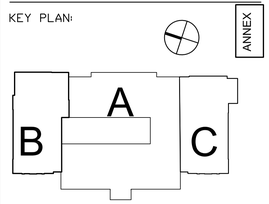
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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NJ RA AI 15023, NY RA 027416, PA RA 405474

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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:
EQUIPMENT 2ND FLR

Sheet No:
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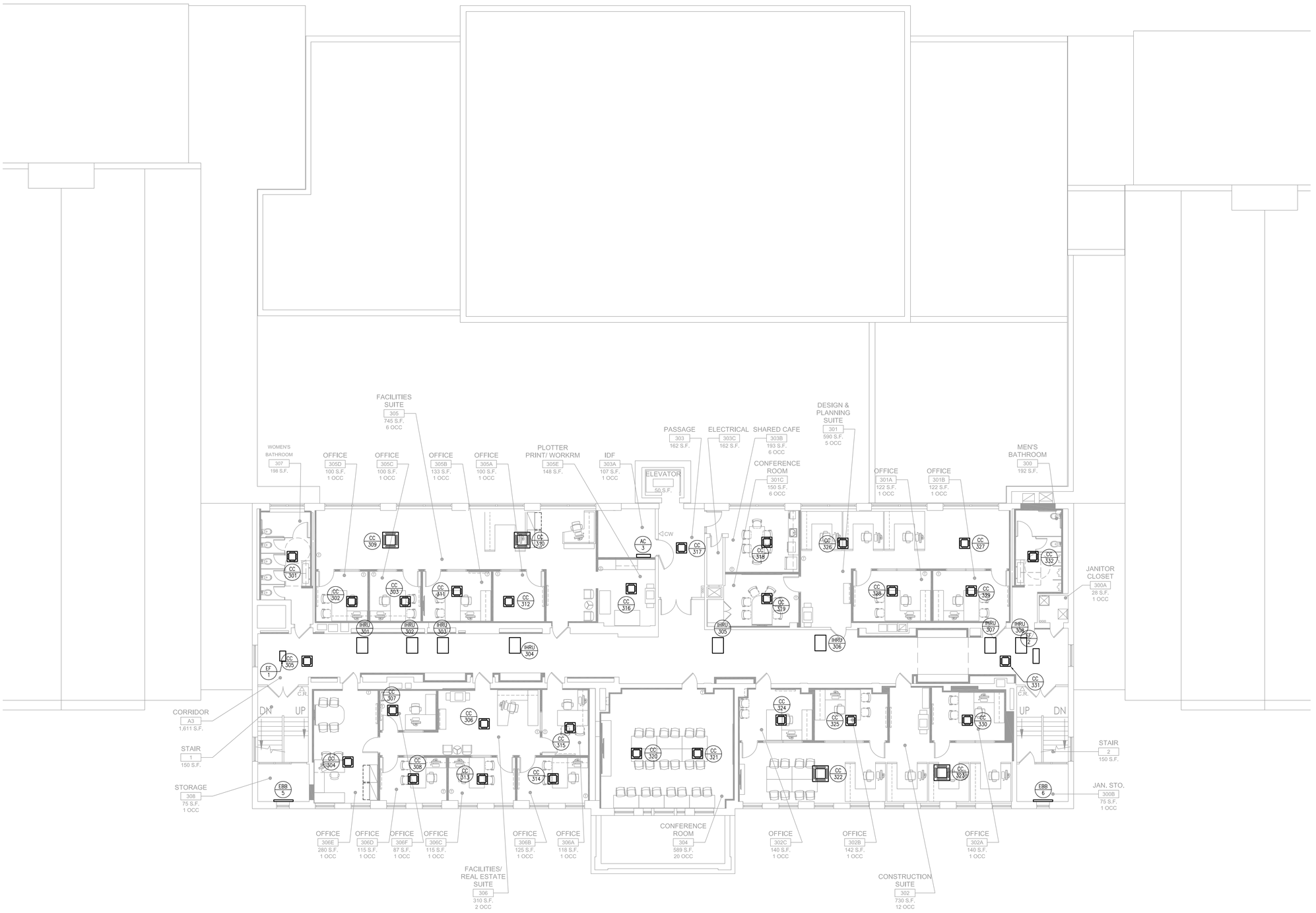


1 EQUIPMENT NEW WORK THIRD FLOOR PLAN

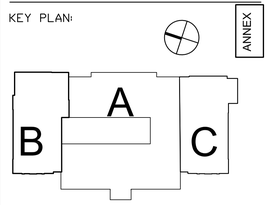
SCALE: 1/8"=1'0"

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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NJ RA AI 15023, NY RA 027416, PA RA 405474

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Client:
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201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:
EQUIPMENT 3RD FLR

Sheet No:
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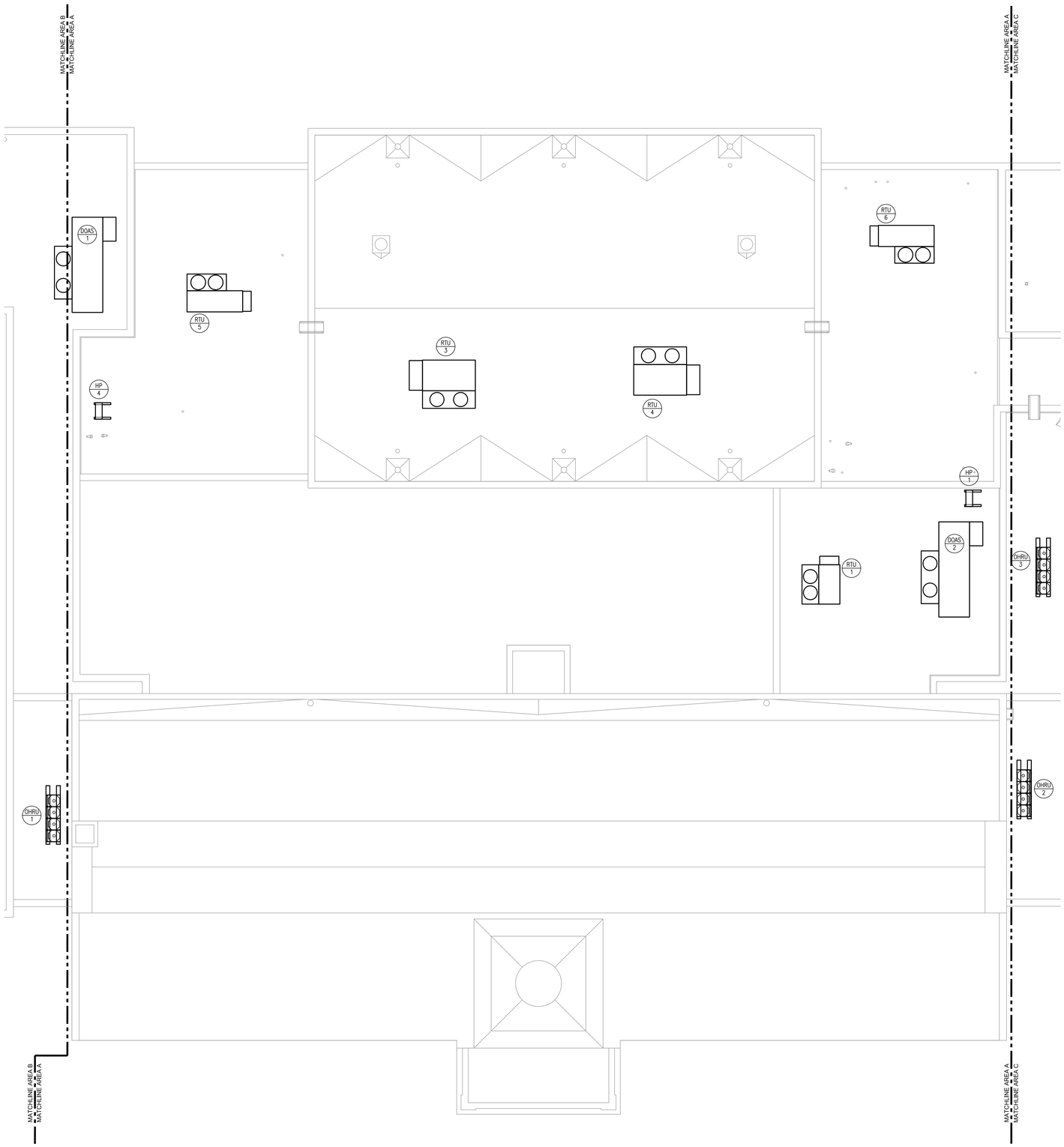

1 **EQUIPMENT NEW WORK FIRST FLOOR PLAN AREA A**
SCALE: 1/8"=1'0"

M/E/P Engineer:

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Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
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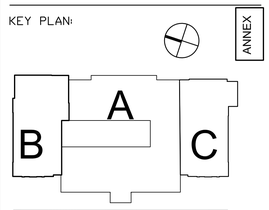
RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:
EQUIPMENT ROOF

Sheet No:
E-504A
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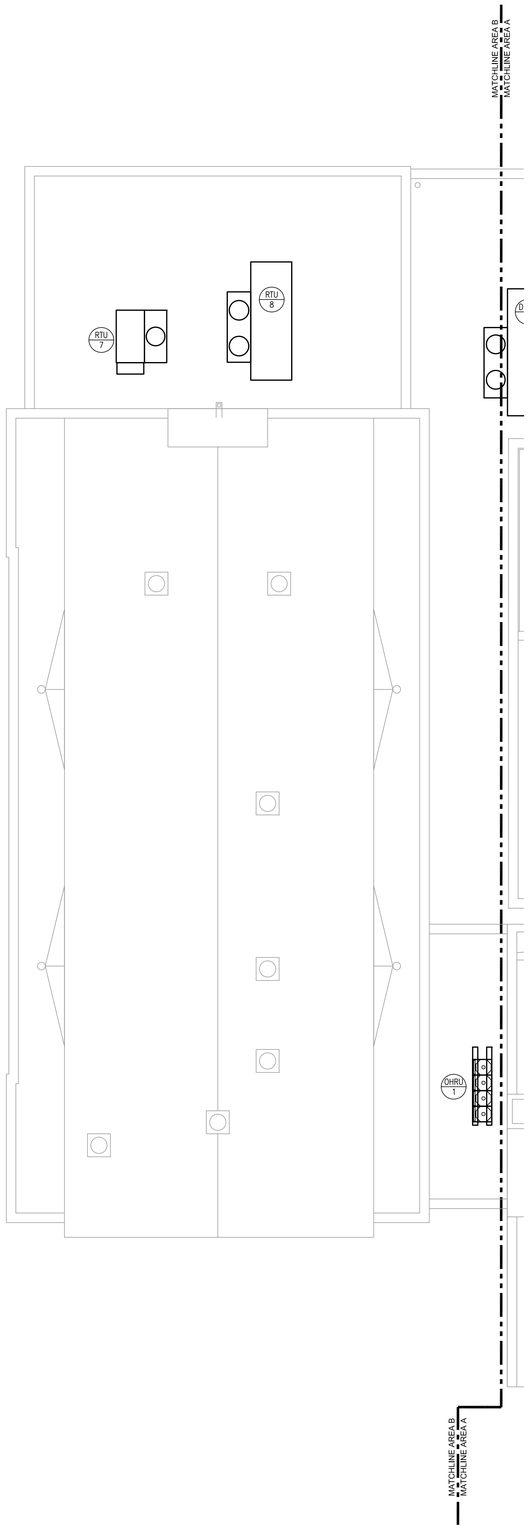
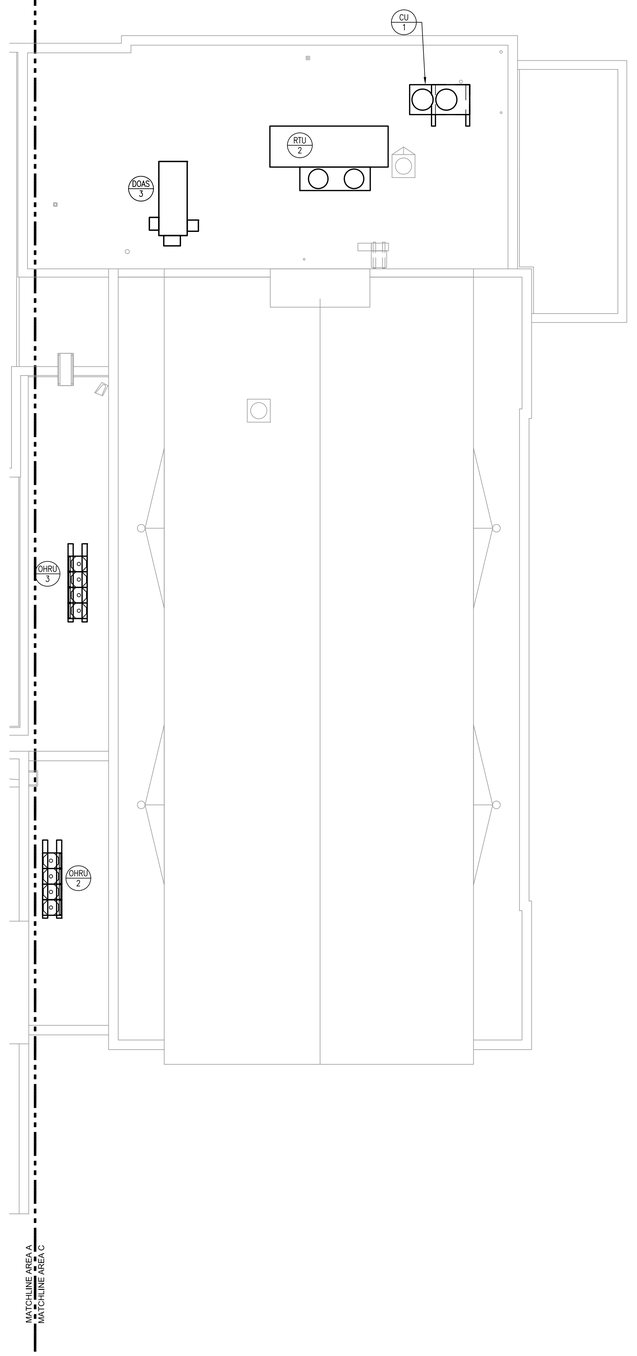


1 EQUIPMENT NEW WORK FIRST FLOOR PLAN AREA B

SCALE: 1/8"=1'0"



2 EQUIPMENT NEW WORK FIRST FLOOR PLAN AREA C

SCALE: 1/8"=1'0"

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers

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Blue Bell, PA 19422
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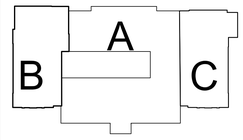
LICENSE NO.: GE45368

KEY PLAN:



No.	Date	Description
Revisions / Issues		
	12/03/25	DCA Submission
	12/08/25	OUT TO BID

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ARCHITECTURE FOR CHANGE

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Richard D. Alderiso , AIA
NJ RA AI 15023, NY RA 027416, PA RA 405474

DO NOT SCALE, DRAWING MAY BE PRINTED AT REDUCED SCALE, CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client:

Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:

Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:

Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:

EQUIPMENT ROOF

Sheet No:

E-504B

Sheet 0 of 000

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NOTES:

1. REFER TO DRAWINGS E-001 & E-002 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.

LIGHTING FIXTURE SCHEDULE

FIXTURE TYPE	MANUFACTURER	CATALOG NUMBER	ALTERNATE MANUFACTURERS	VOLTS	LIGHT ENGINE LUMENS	WATTS	COLOR	HOURS@L70	TYPE	DRIVER	MOUNTING	WARRANTY	REMARKS
INTERIOR FIXTURES													
A1	LITHONIA	ENVX 1X4 HRGC 4000LM 80CRI 35K MIN10 EZT MVOLT	OR APPROVED EQUAL	120/277V	3,891	33	3500K	60,000@L80	LED	0-10V DIMMING	RECESSED	5 YEARS	1' X 4' LED FIXTURE WITH CENTER SPLINE. FIXTURE HOUSING SHALL BE CONSTRUCTED OF STEEL AND PLASTIC END CAPS WITH DIFFUSED ACRYLIC LENS.
B1	MARK ARCHITECTURAL	WHSPR 2X4 80CRI 35K 4800LM MIN10 MVOLT SWC	OR APPROVED EQUAL	120/277V	4,879	41.3	3500K	60,000@L80	LED	0-10V DIMMING	RECESSED	5 YEARS	2' X 4' LED FIXTURE WITH CENTER CHANNEL LENS. FIXTURE HOUSING SHALL BE CONSTRUCTED OF COLD-ROLLED STEEL WITH MAATTE WHITE FINISH AND HINGED DOOR FRAME WITH SOFT-WHITE ACRYLIC LENSES.
B2	MARK ARCHITECTURAL	WHSPR 2X2 80CRI 35K 4000LM MIN10 MVOLT SWC	OR APPROVED EQUAL	120/277V	4,222	38	3500K	60,000@L80	LED	0-10V DIMMING	RECESSED	5 YEARS	SAME AS FIXTURE TYPE "B1", EXCEPT FIXTURE TO BE 2' X 2' AND HAVE 4000L LUMEN PACKAGE.
C1	WAC	PD-29803-XX	OR APPROVED EQUAL	120/277V	3950	42	3500K	50,000	LED	ELV/TRIAC DIMMING	PENDANT	5 YEARS	DECORATIVE PENDANT LED FIXTURE. FIXTURE HOUSING SHALL BE CONSTRUCTED OF ALUMINUM WITH DIFFUSED POLYCARBONATE LENS. FIXTURE SHALL BE DAMP LOCATION LISTED. FIXTURE FININSH TO BE SELECTED BY ARCHITECT.
D1	WAC	FM-73134-XX	OR APPROVED EQUAL	120/277V	1664	42	3500K	50,000	LED	ELV/TRIAC DIMMING	PENDANT	5 YEARS	DECORATIVE PENDANT LED FIXTURE. FIXTURE HOUSING SHALL BE CONSTRUCTED OF ALUMINUM WITH DIFFUSED POLYCARBONATE LENS. FIXTURE SHALL BE DAMP LOCATION LISTED. FIXTURE FININSH TO BE SELECTED BY ARCHITECT.
E1	LITHONIA	LQM S W 3 R 120/277	OR APPROVED EQUAL	120/277V	-	1.5	-	-	LED	NON-DIMMING	WALL/CEILING	5 YEARS	AC POWERED LED EXIT SIGN, THERMOPLASTIC HOUSING WITH UNIVERSAL MOUNT AND FIELD SNAP-OUT CHEVRONS.
E2	LITHONIA	EU2C SD	OR APPROVED EQUAL	120/277V	-	2	-	-	LED	NON-DIMMING	WALL	2 YEARS	LED EMERGENCY LIGHT, THERMOPLASTIC HOUSING WITH UNIVERSAL MOUNT. FIXTURE SHALL BE WET LOCATION LISTED.
E3	LITHONIA	LQM P W 3 R 120/277 SW12	OR APPROVED EQUAL	120/277V	-	1.5	-	-	LED	NON-DIMMING	WALL/CEILING	5 YEARS	AC POWERED LED "NO EXIT" SIGN, THERMOPLASTIC HOUSING WITH UNIVERSAL MOUNT AND FIELD SNAP-OUT CHEVRONS.
E4	LITHONIA	LV S 1 R 120/277 4X	OR APPROVED EQUAL	120/277V	-	2.3	-	-	LED	NON-DIMMING	WALL	5 YEARS	AC POWERED NEMA 4X LED EXIT SIGN, DIE-CAST ALUMINUM HOUSING WITH POLYCARBONATE COVER AND FIELD SNAP-OUT CHEVRONS.
F1	LITHONIA	CPANL 1X4 ALO1 SWW7 M4	OR APPROVED EQUAL	120/277V	3599	41	3500K	60,000	LED	0-10V DIMMING	RECESSED	5 YEARS	1' X 4' FLAT PANEL LED FIXTURE. FIXTURE HOUSING IS CONTRUCTED OF ALUMINUM WITH SATIN WHITE LENS. FIXTURE SHALL BE DAMP LOCATION LISTED AND RATED FOR NSF/ANSI STANDARD 2.
F2	LITHONIA	CPANL 2X2 ALO1 SWW7 M4	OR APPROVED EQUAL	120/277V	3778	41	3500K	60,000	LED	0-10V DIMMING	RECESSED	5 YEARS	SAME AS FIXTURE TYPE "F1" EXCEPT FIXTURE TO BE 2' X 2'.
F3	LITHONIA	FIXTURE: CPANL 1X4 ALO1 SWW7 M4 ACCESSORY: 1X4SMKSH	OR APPROVED EQUAL	120/277V	3599	41	3500K	60,000	LED	0-10V DIMMING	SURFACE	5 YEARS	SAME AS FIXTURE TYPE "F1" EXCEPT FIXTURE TO BE WITH SURFACE MOUNT KIT ACCESSORY.
G1	MERCURY	L455-4-4500-35K-HTA20-1%-50-UNI	OR APPROVED EQUAL	120/277V	4472	34	3500K	60,000@L80	LED	0-10V DIMMING TO 1%	WALL/CEILING	5 YEARS	4' LED BI-LEVEL FIXTURE. FIXTURE CONSTRUCTED OF COLD ROLLED STEEL WITH WELDED ENDS,WHITE POLYESTER FINISH AND EXTRUDED IMPACT-RESISTANT ACRYLIC DIFFUSER.
L1	SAL	S3796-L16M-35K-PTXX	OR APPROVED EQUAL	120/277V	1,008	16	3500K		LED	0-10V DIMMING TO 1%	WALL		DECORATIVE LED WALL SCONCE WITH OPAL MATTE ACRYLIC DIFFUSER. FIXTURE FINISH TO BE SELECTED BY ARCHITECT.
M1	LITHONIA	CLX L48 5000LM SEF RDL MVOLT GZ10 35K 80CRI	OR APPROVED EQUAL	120/277V	5,000	32	3500K		LED	0-10V DIMMING	WALL/CEILING/ PENDANT	5 YEARS	3-1/2"W X 4'L LED STRIP LIGHT FIXTURE WITH ACRYLIC DIFFESED LENS AND CODE -GAUGE COLD ROLLED STEEL CHANNEL WITH WHITE BAKED POLYESTER PAINT.
P1	CSL	HOUSING: A2-SNC-R-03590-30-20S-XXX TRIM: A2-RSTWT-SWSA-NL	OR APPROVED EQUAL	120/277V	1,188	22	3500K	55,000	LED	0-10V DIMMING TO 1%	RECESSED	5 YEARS	2" ROUND LED RECESSED WALLWASH DOWNLIGHT. FIXTURE SHALL HAVE STANDARD TRIM AND FLANGE. FIXTURE SHALL BE LISTED FOR DRY/DAMP/WET LOCATIONS. TRIM AND REFLECTOR FINISH TO BE SELECTED BY ARCHITECT.
P2	CSL	HOUSING: A2-NC-R-ST-20-S-XXX TRIM: A2-3590-RSTWT-ST60NL-50	OR APPROVED EQUAL	120/277V	1,608	22	3500K	55,000	LED	0-10V DIMMING TO 1%	RECESSED	5 YEARS	2" ROUND LED RECESSED DOWNLIGHT. FIXTURE SHALL HAVE STANDARD TRIM AND FLANGE. FIXTURE SHALL BE LISTED FOR DRY/DAMP/WET LOCATIONS. TRIM AND REFLECTOR FINISH TO BE SELECTED BY ARCHITECT.
Q1	MARK ARCHITECTURAL	SL4L LOP PATTERNS 26' FLP FL 80CRI 35K 300LMF NODIM 120	OR APPROVED EQUAL	120V	7,800	104	3500K	65,000@L80	LED	NON-DIMMING	RECESSED	5 YEARS	4"W LINEAR PATTERN RECESSED LED FIXTURE WITH FLUSH LENS. INTENT IS FOR FIXTURES TO BE CONTINUOUS RUNS, WITH CORNERS AND ANGLES, WHERE SHOWN ON DRAWINGS. FIXTURE SHALL BE CONSTRUCTED OF COLD-ROLLED STEEL HOUSING AND EXTRUDED ALUMINUM CEILING TRIM, WITH FLUSH SATIN ACRYLIC LENS. COORDINATE FINAL CEILING TYPE WITH ARCHITECTURAL DWGS.
Q2	MARK ARCHITECTURAL	SL4L LOP PATTERNS 20' FLP FL 80CRI 35K 300LMF NODIM 120	OR APPROVED EQUAL	120V	6,000	80	3500K	65,000@L80	LED	NON-DIMMING	RECESSED	5 YEARS	4"W LINEAR PATTERN RECESSED LED FIXTURE WITH FLUSH LENS. INTENT IS FOR FIXTURES TO BE CONTINUOUS RUNS, WITH CORNERS AND ANGLES, WHERE SHOWN ON DRAWINGS. FIXTURE SHALL BE CONSTRUCTED OF COLD-ROLLED STEEL HOUSING AND EXTRUDED ALUMINUM CEILING TRIM, WITH FLUSH SATIN ACRYLIC LENS. COORDINATE FINAL CEILING TYPE WITH ARCHITECTURAL DWGS.
EXTERIOR FIXTURES													
AA1	LUMINAIRE LED	BLD-36-NODIM-2DRV-30-30K-MVOLT-DP-XXX	OR APPROVED EQUAL	120V	2,860	29.6	3000K	130,000	LED	NON-DIMMING	WALL	10 YEARS	36" LONG MULLION MOUNT LED FIXTURE. FIXTURE HOUSING, WALL MOUNT AND LENS FRAME TO BE EXTRUDED ALUMINUM WITH EXTRUDED OPAL POLYCARBONATE LENS. FIXTURE FINISH SHALL BE SELECTED BY ARCHITECT. FIXTURE SHALL HAVE DUAL DRIVERS.
AA2	LUMINAIRE LED	BLD-48-NODIM-2DRV-35-30K-MVOLT-DP-XXX	OR APPROVED EQUAL	120V	3,812	36.4	3000K	130,000	LED	NON-DIMMING	WALL	10 YEARS	48" LONG MULLION MOUNT LED FIXTURE. FIXTURE HOUSING, WALL MOUNT AND LENS FRAME TO BE EXTRUDED ALUMINUM WITH EXTRUDED OPAL POLYCARBONATE LENS. FIXTURE FINISH SHALL BE SELECTED BY ARCHITECT. FIXTURE SHALL HAVE DUAL DRIVERS.
BB1	EVERGREEN	HFU-W-SLT-2SLED-9-WF-24"-DIM-30K-WET	OR APPROVED EQUAL	120V	1,200	25	3000K	130,000	LED	NON-DIMMING	WALL	5 YEARS	ARCHITECTURAL EXTERIOR WALL SCONCE. FIXTURE HOUSING IS ALUMINUM WITH FROSTED ACRYLIC LENS. FIXTURE SHALL BE WET LOCATION LISTED. FIXTURE FINISH SHALL BE SELECTED BY ARCHITECT.
CC1	LITHONIA	FIXTURE: DSX1 LED P7 30K 70CRI BLC3 MVOLT SPA PIR DX00X POLE: SSS 22' 6G DM19AS VD UL DX00X	OR APPROVED EQUAL	120V	16	184	3000K	100,000@L81	LED	DIMMING	POLE	5 YEARS	LED AREA FIXTURE WITH TYPE 3 EXTREME BACKLIGHT CONTROL. HOUSING CONSTRUCTED OF DIE-CAST ALUMINUM WITH INTEGRAL HEAT SINK AND ZINC-INFUSED TGIC POWDER COAT FINISH WITH SILICONE LENSES. FIXTURE TO BE MOUNTED ON 22' HIGH SQUARE STRAIGHT STEEL POLE. FIXTURE AND POLE FINISH SHALL BE SELECTED BY ARCHITECT.
CC2	LITHONIA	FIXTURE: (2) DSX1 LED P7 30K 70CRI T5M MVOLT SPA PIR DX00X POLE: SSS 22' 6G DM28AS VD UL DX00X	OR APPROVED EQUAL	120V	44,504	370	3000K	100,000@L81	LED	DIMMING	POLE	5 YEARS	(2) LED AREA FIXTURES WITH TYPE 5 MEDIUM DISTRIBUTION MOUNTED 180 DEGRESS APART. HOUSING CONSTRUCTED OF DIE-CAST ALUMINUM WITH INTEGRAL HEAT SINK AND ZINC-INFUSED TGIC POWDER COAT FINISH WITH SILICONE LENSES. FIXTURES TO BE MOUNTED ON 22' HIGH SQUARE STRAIGHT STEEL POLE. FIXTURE AND POLE FINISH SHALL BE SELECTED BY ARCHITECT.
CC3	LITHONIA	FIXTURE: DSX1 LED P3 30K 70CRI BLC4 MVOLT SPA PIR DX00X POLE: SSS 22' 6G DM19AS VD UL DX00X	OR APPROVED EQUAL	120V	9,921	102	3000K	100,000@L81	LED	DIMMING	POLE	5 YEARS	SAME AS FIXTURE TYPE "CC1" EXCEPT FIXTURE TO HAVE TYPE 4 EXTREME BACKLIGHT CONTROL AND "P3" OPTICS
CC4	LITHONIA	FIXTURE: DSX1 LED P4 30K 70CRI BLC4 MVOLT SPA PIR DX00X POLE: SSS 22' 6G DM19AS VD UL DX00X	OR APPROVED EQUAL	120V	11,557	124	3000K	100,000@L81	LED	DIMMING	POLE	5 YEARS	SAME AS FIXTURE TYPE "CC3" EXCEPT FIXTURE TO HAVE "P4" OPTICS
DD1	LITHONIA	WDGE3 LED P2 30K 70CRI R3 MVOLT SRM PBBW BCE DX00X	OR APPROVED EQUAL	120V	7,838	59	3000K	100,000@L92	LED	DIMMING	WALL	5 YEARS	LED ARCHITECTURAL EXTERIOR SURFACE FIXTURE. HOUSING CONSTRUCTED OF DIE-CAST ALUMINUM WITH DRIVER MOUNTED IN DIRECT CONTACT WITH CASTING FOR HEAT SINK. AND ZINC-INFUSED TGIC POWDER COAT FINISH WITH SILICONE GASKETED ACRYLIC LENS. FIXTURE FINISH SHALL BE SELECTED BY ARCHITECT.

1 LIGHTING FIXTURE SCHEDULE
NOT TO SCALE

LIGHTING CONTROL SCHEDULE

	OCCUPANCY SENSOR	VACANCY SENSOR	DAYLIGHT SENSOR	AUTOMATIC SHUT OFF BY	WALL CONTROLS	LIFE SAFETY EMERGENCY LIGHTING	SEQUENCE	LOCATION
C01	-	YES	-	VACANCY SENSOR	6-BUTTON DIGITAL SWITCH(ES) (4 PRESET, RAISE/LOWER)	-	LIGHTS ON BY USER. LIGHTS OFF BY VACANCY SENSOR OR USER.	CONFERENCE ROOMS 111, 113
C02	-	YES	-	VACANCY SENSOR	4-BUTTON DIGITAL SWITCH(ES) (ON/OFF/RAISE/LOWER) THE "ON" FUNCTION OF THE DIMMER SHALL RECALL THE LAST-DIMMED SETTING.	-	LIGHTS ON BY USER. LIGHTS OFF BY VACANCY SENSOR OR USER. LIGHTS DIMMED BY USER.	OFFICES, WORKROOM, SHARED KITCHEN
C03	YES	-	-	OCCUPANCY SENSOR	-	NOT CONTROLLED, ON 24/7 FOR SECURITY.	LIGHTS ON AND OFF BY OCCUPANCY SENSOR.	CORRIDORS AND VESTIBULES
C04	-	YES	-	VACANCY SENSOR	2-BUTTON DIGITAL SWITCH (ON/OFF)	-	LIGHTS ON BY USER. LIGHTS OFF BY VACANCY SENSOR OR USER.	LARGE STORAGE ROOM, IDF ROOM
C05	-	-	-	-	TOGGLE SWITCH(ES)	-	LIGHTS ON AND OFF BY USER.	MDF, IDF, ELECTRICAL, MECHANICAL, ELEVATOR MACHINE RM
C06	-	YES	-	VACANCY SENSOR	1-BUTTON DIGITAL SWITCH (ON/OFF) WITH INTEGRAL SENSOR AT SWITCH.	-	LIGHTS ON BY USER. LIGHTS OFF BY VACANCY SENSOR OR USER.	SMALL STORAGE ROOMS, JANITOR'S CLOSETS AND PRINT/COPY ROOMS
C07	YES	-	-	OCCUPANCY SENSOR	-	CONTROLLED WITH NORMAL LIGHTING. ON TO 20% WHEN SPACE NOT OCCUPIED. ON TO 100% DURING POWER OUTAGE VIA UL 924 TRANSFER DEVICE.	LIGHTS ON AND OFF BY OCCUPANCY SENSOR.	GANG TOILET ROOMS, LOCKER ROOMS
C08	YES	-	-	OCCUPANCY SENSOR	1-BUTTON DIGITAL SWITCH (ON/OFF) WITH INTEGRAL SENSOR AT SWITCH.	-	LIGHTS ON AND OFF BY OCCUPANCY SENSOR. MANUAL OFF BY USER IF DESIRED.	INVIDUAL TOILET ROOMS
C09	YES	-	-	-	-	CONTROLLED WITH NORMAL LIGHTING. ON TO 20% WHEN SPACE NOT OCCUPIED. ON TO 100% DURING POWER OUTAGE VIA UL 924 TRANSFER DEVICE.	LIGHTS ON AND OFF BY OCCUPANCY SENSOR.	SUITE 302, 304, 305, 307, 310 CORRIDORS
C10	YES	-	-	OCCUPANCY SENSOR	4-BUTTON DIGITAL SWITCH(ES) (ON/OFF/RAISE/LOWER) THE "ON" FUNCTION OF THE DIMMER SHALL RECALL THE LAST-DIMMED SETTING.	CONTROLLED WITH NORMAL LIGHTING. ON TO 20% WHEN SPACE NOT OCCUPIED. ON TO 100% DURING POWER OUTAGE VIA UL 924 TRANSFER DEVICE.	LIGHTS ON AND OFF BY OCCUPANCY SENSOR. LIGHTS DIMMED BY USER.	OPEN OFFICES, LOCKER ROOMS
C11	-	YES	YES	VACANCY SENSOR	6-BUTTON DIGITAL SWITCH(ES) (4 PRESET, RAISE/LOWER)	CONTROLLED WITH NORMAL LIGHTING. ON TO 100% DURING POWER OUTAGE VIA UL 924 TRANSFER DEVICE.	LIGHTS ON BY USER. LIGHTS OFF BY VACANCY SENSOR OR USER. LIGHTS DIMMED BY USER OR DAYLIGHT SENSOR.	TRAINING ROOM 103
C12	-	YES	-	VACANCY SENSOR	4-BUTTON DIGITAL SWITCH (ON/RAISE)/OFF/LOWER) WITH INTEGRAL SENSOR AT SWITCH.	-	LIGHTS ON BY USER. LIGHTS OFF BY VACANCY SENSOR OR USER. LIGHTS DIMMED BY USER.	SMALL OFFICES
C13	YES	-	-	-	-	DIM TO 50% WHEN UNOCCUPIED. ON TO 100% WHEN OCCUPIED OR DURING POWER OUTAGE.	-	STAIRS
C14	-	YES	-	VACANCY SENSOR	4-BUTTON DIGITAL SWITCH(ES) (ON/OFF/RAISE/LOWER) THE "ON" FUNCTION OF THE DIMMER SHALL RECALL THE LAST-DIMMED SETTING.	CONTROLLED WITH NORMAL LIGHTING. ON TO 100% DURING POWER OUTAGE VIA UL 924 TRANSFER DEVICE.	LIGHTS ON BY USER. LIGHTS OFF BY VACANCY SENSOR OR USER. LIGHTS DIMMED BY USER.	COMMUNITY MUSIC RM. 100

2 LIGHTING CONTROL SCHEDULE
NOT TO SCALE

SPARE COMPONENTS AND WORK:

CONTRACTOR SHALL INCLUDE THE FOLLOW IN THE BASE CONTRACT BID:

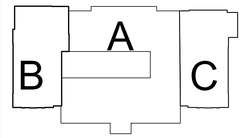
1. ATTIC STOCK:
   a. (10) LIGHTING FIXTURE TYPE "A1"
   b. (10) LIGHTING FIXTURE TYPE "B1"
   c. (10) LIGHTING FIXTURE TYPE "E1"
   d. (10) LIGHTING FIXTURE TYPE "F1"
   e. (10) LIGHTING FIXTURE TYPE "M1"
   f. (15) 4-BUTTON DIGITAL WALL SWITCH (ON/OFF/RAISE/LOWER)
   g. (15) CEILING MOUNTED OCCUPANCY SENSORS
   h. (15) 1-RELAY DIMMING ROOM CONTROLLER
2. INCLUDE ALL LABOR TO INSTALL ATTIC STOCK EQUIPMENT/DEVICES, IF DETERMINED NECESSARY TO INSTALL DURING CONSTRUCTION.

3 SPARE LIGHTING FIXTURES AND CONTROLS
NOT TO SCALE

M/E/P Engineer:
SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



ANNEX

No.	Date	Revisions / Issues
	12/08/25	OUT TO BID
	12/03/25	DCA Submission

DIGroupArchitecture
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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:
LIGHTING SCHEDULES

Sheet No:
E-600
Sheet 0 of 000

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NOTES:

1. REFER TO DRAWINGS E-001 & E-002 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.

MECHANICAL EQUIPMENT - ELECTRICAL DATA SCHEDULE

EQUIPMENT NAME	V-Φ-Hz	HP/kVA	WIRE AND CONDUIT	CIRCUIT BREAKER	PANEL;CKT #(S)	STARTER/ DISCONNECT FURNISHED BY MC/PC/FP INSTALLED BY EC	STARTER/ DISCONNECT FURNISHED BY EC INSTALLED BY EC	SUPPLY SMOKE DETECTOR QUANTITY	RETURN SMOKE DETECTOR QUANTITY	REMARKS	BASE/ ALTERNATE BID
AC-1	208-1-60	-	3/4"C-3#12+1#12GND	-	-	-	WALL MOUNT	-	-	REFER TO DETAIL 1/E-602. SPLIT SYSTEM WALL HUNG AIR HANDLING UNIT.	BASE
AC-2	208-1-60	-	3/4"C-3#12+1#12GND	-	-	-	WALL MOUNT	-	-	REFER TO DETAIL 1/E-602. SPLIT SYSTEM WALL HUNG AIR HANDLING UNIT.	BASE
AC-3	208-1-60	-	3/4"C-3#12+1#12GND	-	-	-	WALL MOUNT	-	-	REFER TO DETAIL 1/E-602. SPLIT SYSTEM WALL HUNG AIR HANDLING UNIT.	BASE
AC-4	208-1-60	-	3/4"C-3#12+1#12GND	-	-	-	WALL MOUNT	-	-	REFER TO DETAIL 1/E-602. SPLIT SYSTEM WALL HUNG AIR HANDLING UNIT.	BASE
AFU-1	120-1-60	3.5 FLA	3/4"C-2#12+1#12GND	1P-20A	SS;25	-	-	-	-	PROVIDE NEMA 5-20 RECEPTACLE FOR UNIT CONNECTION.	BASE
AFU-2	120-1-60	3.5 FLA	3/4"C-2#12+1#12GND	1P-20A	SS;25	-	-	-	-	PROVIDE NEMA 5-20 RECEPTACLE FOR UNIT CONNECTION.	BASE
AHU-1	208-3-60	79 MCA	1"C-3#1+1#4GND	3P-80A	MDP;5	-	CEILING MOUNT	-	-	-	BASE
C-1	208-1-60	8.8A	3/4"C-2#12+1#12GND	2P-20A	HP3;24,26	-	STRUT MOUNT	-	-	AIR COMPRESSOR, PROVIDING COMPRESSED AIR FOR FIRE PROTECTION SYSTEM	BASE
CC-B1	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	PPB;30,32	-	CEILING MOUNT	-	-	-	BASE
CC-B2	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	PPB;30,32	-	CEILING MOUNT	-	-	-	BASE
CC-B3	-	-	-	-	-	-	-	-	-	NOT USED	BASE
CC-B4	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	PPB;30,32	-	CEILING MOUNT	-	-	-	BASE
CC-B5	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	PPB;30,32	-	CEILING MOUNT	-	-	-	BASE
CC-B6	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	PPB;30,32	-	CEILING MOUNT	-	-	-	BASE
CC-101	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP1;2,4	-	CEILING MOUNT	-	-	-	BASE
CC-102	208-1-60	2.1 MCA	3/4"C-2#12+1#12GND	2P-15A	HP1;2,4	-	CEILING MOUNT	-	-	-	BASE
CC-103	208-1-60	2.1 MCA	3/4"C-2#12+1#12GND	2P-15A	HP1;2,4	-	CEILING MOUNT	-	-	-	BASE
CC-104	208-1-60	2.1 MCA	3/4"C-2#12+1#12GND	2P-15A	HP1;2,4	-	CEILING MOUNT	-	-	-	BASE
CC-105	208-1-60	2.1 MCA	3/4"C-2#12+1#12GND	2P-15A	HP1;2,4	-	CEILING MOUNT	-	-	-	BASE
CC-106	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP1;6,8	-	CEILING MOUNT	-	-	-	BASE
CC-107	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP1;6,8	-	CEILING MOUNT	-	-	-	BASE
CC-108	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP1;6,8	-	CEILING MOUNT	-	-	-	BASE
CC-109	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP1;6,8	-	CEILING MOUNT	-	-	-	BASE
CC-110	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP1;6,8	-	CEILING MOUNT	-	-	-	BASE
CC-111	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP1;6,8	-	CEILING MOUNT	-	-	-	BASE
AHU-112	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP1;6,8	-	CEILING MOUNT	-	-	-	BASE
CC-113	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP1;6,8	-	CEILING MOUNT	-	-	-	BASE
CC-114	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP1;6,8	-	CEILING MOUNT	-	-	-	BASE
CC-115	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP1;6,8	-	CEILING MOUNT	-	-	-	BASE
CC-116	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP1;6,8	-	CEILING MOUNT	-	-	-	BASE
CC-117	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP1;6,8	-	CEILING MOUNT	-	-	-	BASE
CC-118	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP1;6,8	-	CEILING MOUNT	-	-	-	BASE
CC-119	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP1;6,8	-	CEILING MOUNT	-	-	-	BASE
CC-120	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP1;6,8	-	CEILING MOUNT	-	-	-	BASE
CC-121	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP1;6,8	-	CEILING MOUNT	-	-	-	BASE
CC-122	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP1;6,8	-	CEILING MOUNT	-	-	-	BASE
CC-123	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP1;6,8	-	CEILING MOUNT	-	-	-	BASE
CC-124	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP1;6,8	-	CEILING MOUNT	-	-	-	BASE
CC-125	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP1;6,8	-	CEILING MOUNT	-	-	-	BASE
CC-126	208-1-60	2.1 MCA	3/4"C-2#12+1#12GND	2P-15A	HP1;6,8	-	CEILING MOUNT	-	-	-	BASE
CC-127	208-1-60	2.1 MCA	3/4"C-2#12+1#12GND	2P-15A	HP1;6,8	-	CEILING MOUNT	-	-	-	BASE
AHU-128	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP1;6,8	-	CEILING MOUNT	-	-	-	BASE
CC-129	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP1;6,8	-	CEILING MOUNT	-	-	-	BASE
CC-130	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP1;6,8	-	CEILING MOUNT	-	-	-	BASE
CC-131	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP1;6,8	-	CEILING MOUNT	-	-	-	BASE
CC-132	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP1;6,8	-	CEILING MOUNT	-	-	-	BASE
CC-201	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP2;1,3	-	CEILING MOUNT	-	-	-	BASE
CC-202	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP2;1,3	-	CEILING MOUNT	-	-	-	BASE
CC-203	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP2;1,3	-	CEILING MOUNT	-	-	-	BASE
CC-204	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP2;1,3	-	CEILING MOUNT	-	-	-	BASE
CC-205	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP2;1,3	-	CEILING MOUNT	-	-	-	BASE
CC-206	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP2;1,3	-	CEILING MOUNT	-	-	-	BASE
CC-207	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP2;1,3	-	CEILING MOUNT	-	-	-	BASE
CC-208	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP2;1,3	-	CEILING MOUNT	-	-	-	BASE
CC-209	-	-	-	-	-	-	-	-	-	NOT USED	BASE
CC-210	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP2;1,3	-	CEILING MOUNT	-	-	-	BASE
CC-211	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP2;1,3	-	CEILING MOUNT	-	-	-	BASE
CC-212	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP2;1,3	-	CEILING MOUNT	-	-	-	BASE
CC-213	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP2;1,3	-	CEILING MOUNT	-	-	-	BASE
CC-214	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP2;1,3	-	CEILING MOUNT	-	-	-	BASE
CC-215	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP2;1,3	-	CEILING MOUNT	-	-	-	BASE
CC-216	-	-	-	-	-	-	-	-	-	NOT USED	BASE
CC-217	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP2;1,3	-	CEILING MOUNT	-	-	-	BASE
CC-218	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP2;1,3	-	CEILING MOUNT	-	-	-	BASE
CC-219	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP2;1,3	-	CEILING MOUNT	-	-	-	BASE
CC-220	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP2;1,3	-	CEILING MOUNT	-	-	-	BASE
CC-221	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP2;1,3	-	CEILING MOUNT	-	-	-	BASE
CC-222	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP2;1,3	-	CEILING MOUNT	-	-	-	BASE
CC-223	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP2;1,3	-	CEILING MOUNT	-	-	-	BASE
CC-224	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP2;1,3	-	CEILING MOUNT	-	-	-	BASE
CC-225	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP2;1,3	-	CEILING MOUNT	-	-	-	BASE
CC-226	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP2;1,3	-	CEILING MOUNT	-	-	-	BASE
CC-227	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP2;1,3	-	CEILING MOUNT	-	-	-	BASE
CC-228	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP2;1,3	-	CEILING MOUNT	-	-	-	BASE
CC-229	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP2;1,3	-	CEILING MOUNT	-	-	-	BASE
CC-230	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP2;1,3	-	CEILING MOUNT	-	-	-	BASE
CC-231	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP2;1,3	-	CEILING MOUNT	-	-	-	BASE
CC-232	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP2;2,4	-	CEILING MOUNT	-	-	-	BASE
CC-233	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP2;2,4	-	CEILING MOUNT	-	-	-	BASE
CC-234	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP2;2,4	-	CEILING MOUNT	-	-	-	BASE
CC-235	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP2;2,4	-	CEILING MOUNT	-	-	-	BASE
CC-236	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP2;2,4	-	CEILING MOUNT	-	-	-	BASE
CC-237	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP2;2,4	-	CEILING MOUNT	-	-	-	BASE
CC-238	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP2;2,4	-	CEILING MOUNT	-	-	-	BASE
CC-239	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP2;2,4	-	CEILING MOUNT	-	-	-	BASE
CC-240	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP2;2,4	-	CEILING MOUNT	-	-	-	BASE
CC-241	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP2;2,4	-	CEILING MOUNT	-	-	-	BASE
CC-301	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP3;3,5	-	CEILING MOUNT	-	-	-	BASE
CC-302	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP3;3,5	-	CEILING MOUNT	-	-	-	BASE
CC-303	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP3;3,5	-	CEILING MOUNT	-	-	-	BASE
CC-304	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP3;3,5	-	CEILING MOUNT	-	-	-	BASE
CC-305	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP3;3,5	-	CEILING MOUNT	-	-	-	BASE
CC-306	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP3;3,5	-	CEILING MOUNT	-	-	-	BASE
CC-307	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP3;3,5	-	CEILING MOUNT	-	-	-	BASE
CC-308	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP3;3,5	-	CEILING MOUNT	-	-	-	BASE
CC-309	208-1-60	2.1 MCA	3/4"C-2#12+1#12GND	2P-15A	HP3;3,5	-	CEILING MOUNT	-	-	-	BASE
CC-310	208-1-60	2.1 MCA	3/4"C-2#12+1#12GND	2P-15A	HP3;3,5	-	CEILING MOUNT	-	-	-	BASE
CC-311	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP3;3,5	-	CEILING MOUNT	-	-	-	BASE
CC-312	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP3;3,5	-	CEILING MOUNT	-	-	-	BASE
CC-313	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP3;3,5	-	CEILING MOUNT	-	-	-	BASE
CC-314	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP3;3,5	-	CEILING MOUNT	-	-	-	BASE
CC-315	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP3;3,5	-	CEILING MOUNT	-	-	-	BASE
CC-316	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP3;4,6	-	CEILING MOUNT	-	-	-	BASE
CC-317	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP3;4,6	-	CEILING MOUNT	-	-	-	BASE
CC-318	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP3;4,6	-	CEILING MOUNT	-	-	-	BASE
CC-319	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP3;4,6	-	CEILING MOUNT	-	-	-	BASE
CC-320	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP3;4,6	-	CEILING MOUNT	-	-	-	BASE
CC-321	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP3;4,6	-	CEILING MOUNT	-	-	-	BASE
CC-322	208-1-60	2.1 MCA	3/4"C-2#12+1#12GND	2P-15A	HP3;4,6	-	CEILING MOUNT	-	-	-	BASE
CC-323	208-1-60	2.1 MCA	3/4"C-2#12+1#12GND	2P-15A	HP3;4,6	-	CEILING MOUNT	-	-	-	BASE
CC-324	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP3;4,6	-	CEILING MOUNT	-	-	-	BASE
CC-325	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP3;4,6	-	CEILING MOUNT	-	-	-	BASE
CC-326	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP3;4,6	-	CEILING MOUNT	-	-	-	BASE
CC-327	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP3;4,6	-	CEILING MOUNT	-	-	-	BASE
CC-328	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP3;4,6	-	CEILING MOUNT	-	-	-	BASE
CC-329	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP3;4,6	-	CEILING MOUNT	-	-	-	BASE
CC-330	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP3;4,6	-	CEILING MOUNT	-	-	-	BASE
CC-331	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP3;4,6	-	CEILING MOUNT	-	-	-	BASE
CC-332	208-1-60	.25 MCA	3/4"C-2#12+1#12GND	2P-15A	HP3;4,6	-	CEILING MOUNT	-	-	-	BASE

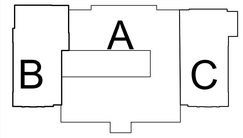
INDICATES CONDUIT AND CABLING IS SIZED FOR VOLTAGE DROP.

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



No.	Date	Description
	12/08/25	OUT TO BID
	12/03/25	DCA Submission

Revisions / Issues

DIGroupArchitecture
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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:
WIRING SCHEDULES

Sheet No:
E-601
Sheet 0 of 000

L:\2528A\ELECTRICAL\

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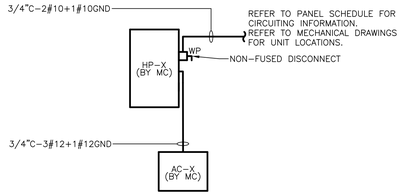
SPARE COMPONENTS AND WORK:

CONTRACTOR SHALL INCLUDE THE FOLLOW IN THE BASE CONTRACT BID:

1. FURNISH AND INSTALL THE FOLLOWING AT THE DIRECTION OF THE ENGINEER, AS NEEDED FOR UNFORESEEN FIELD CONDITIONS, INCLUDING LABOR FOR INSTALLATION:
   a. 500' OF 3/4" EMT CONDUIT
   b. 1500' OF #10 AWG THHN CONDUCTORS
   c. 1000' OF 12/2 MC-CABLE.
   d. 25 RECEPTACLES (20A DUPLEX), INCLUDING BACKBOX, TERMINATIONS, DEVICE AND FACEPLATE.

4 SPARE COMPONENTS AND WORK
NOT TO SCALE



1 HP-AC WIRING DIAGRAM
NOT TO SCALE

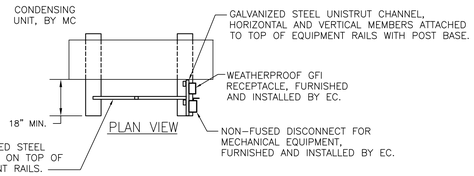
NOTES:

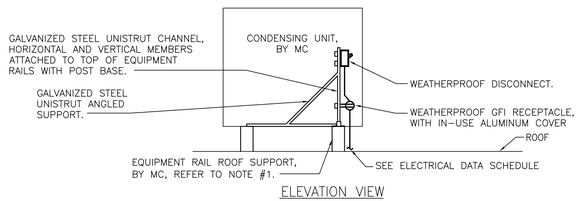
1. REFER TO DRAWINGS E-001 & E-002 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.

MECHANICAL EQUIPMENT - ELECTRICAL DATA SCHEDULE CONTINUED

EQUIPMENT NAME	V-Φ-Hz	HP/VA/A	WIRE AND CONDUIT	CIRCUIT BREAKER	PANEL;CKT #(S)	STARTER/ DISCONNECT FURNISHED BY MC/PC INSTALLED BY EC	STARTER/ DISCONNECT FURNISHED BY EC INSTALLED BY EC	SUPPLY SMOKE DETECTOR QUANTITY	RETURN SMOKE DETECTOR QUANTITY	REMARKS	REMARKS
CP-1	120-1-60	2 MCA	3/4"C-2#12+1#12GND	1P-20A	HP1;10	-	WALL MTF ABV ACT	-	-	-	BASE
CP-2	120-1-60	2 MCA	3/4"C-2#12+1#12GND	1P-20A	EP1;40	-	-	-	-	PROVIDE NEMA 5-20 RECEPTACLE FOR UNIT CONNECTION.	BASE
CP-3	120-1-60	2 MCA	3/4"C-2#12+1#12GND	1P-20A	EP1;40	-	-	-	-	PROVIDE NEMA 5-20 RECEPTACLE FOR UNIT CONNECTION.	BASE
CU-1	208-3-60	38 MCA	1"C-3#4+1#4GND	3P-50A	DP2;2	-	UNIT MOUNT	-	-	CONVEINENCE RECEPTACLE BY MFG.	BASE
CUH-1	208-1-60	60 MCA	1"C-2#4+1#10GND	2P-60A	HP1;23,25	INTEGRAL	-	-	-	CONVEINENCE RECEPTACLE BY MFG.	BASE
CUH-2	208-1-60	19 MCA	3/4"C-2#10+1#10GND	2P-20A	HP1;24,26	INTEGRAL	-	-	-	CONVEINENCE RECEPTACLE BY MFG.	BASE
CUH-3	208-1-60	19 MCA	3/4"C-2#10+1#10GND	2P-20A	HP1;27,29	INTEGRAL	-	-	-	CONVEINENCE RECEPTACLE BY MFG.	BASE
CUH-4	208-1-60	50 MCA	3/4"C-2#4+1#6GND	2P-50A	HP1;28,30	INTEGRAL	-	-	-	CONVEINENCE RECEPTACLE BY MFG.	BASE
CUH-5	208-1-60	50 MCA	3/4"C-2#3+1#6GND	2P-50A	HP1;31,33	INTEGRAL	-	-	-	CONVEINENCE RECEPTACLE BY MFG.	BASE
CUH-6	208-1-60	50 MCA	3/4"C-2#4+1#6GND	2P-50A	HP1;32,34	INTEGRAL	-	-	-	CONVEINENCE RECEPTACLE BY MFG.	BASE
CUH-7	208-1-60	50 MCA	3/4"C-2#4+1#6GND	2P-50A	HP1;35,37	INTEGRAL	-	-	-	CONVEINENCE RECEPTACLE BY MFG.	BASE
DOAS-1	208-3-60	65 MCA	1-1/4"C-3#3+1#3GND	3P-80A	DP2;3	UNIT MOUNT	-	-	-	CONVEINENCE RECEPTACLE BY MFG.	BASE
DOAS-2	208-3-60	101MCA	1-1/4"C-3#1+1#6GND	3P-125A	DP2;4	UNIT MOUNT	-	-	-	CONVEINENCE RECEPTACLE BY MFG.	BASE
DOAS-3	208-3-60	40MCA	1-1/4"C-3#4+1#4GND	3P-50A	HP2;5,7,9	UNIT MOUNT	-	-	-	CONVEINENCE RECEPTACLE BY MFG.	BASE
EBB-1	208-1-60	3 MCA	3/4"C-2#12+1#12GND	2P-15A	HP1;7,9	INTEGRAL	-	-	-	-	BASE
EBB-2	208-1-60	3 MCA	3/4"C-2#12+1#12GND	2P-15A	HP1;7,9	INTEGRAL	-	-	-	-	BASE
EBB-3	208-1-60	9 MCA	3/4"C-2#10+1#10GND	2P-15A	HP2;11,13	INTEGRAL	-	-	-	-	BASE
EBB-4	208-1-60	9 MCA	3/4"C-2#10+1#10GND	2P-15A	HP2;15,17	INTEGRAL	-	-	-	-	BASE
EBB-5	208-1-60	6 MCA	3/4"C-2#12+1#12GND	2P-15A	HP3;16,18	INTEGRAL	-	-	-	-	BASE
EBB-6	208-1-60	6 MCA	3/4"C-2#12+1#12GND	2P-15A	HP3;20,22	INTEGRAL	-	-	-	-	BASE
EWH-1	120-1-60	16 MCA	3/4"C-2#12+1#12GND	1P-20A	HP2;6	UNIT MOUNT	-	-	-	-	BASE
EF-1	120-1-60	7.4 FLA	3/4"C-2#12+1#12GND	1P-20A	HP3;19	UNIT MOUNT	-	-	-	-	BASE
EF-2	120-1-60	10.3 FLA	3/4"C-2#12+1#12GND	1P-20A	HP3;21	UNIT MOUNT	-	-	-	-	BASE
FP-1	208-3-60	40 HP	SEE REMARKS		SEE REMARKS	FLOOR MOUNT	SEE REMARKS	-	-	REFER TO SINGLE LINE DIAGRAM DRAWING E500 FOR ALL INSTALLATION REQUIREMENTS.	BASE
FP-2	208-3-60	3/4 HP	3/4"C-3#12+1#12GND	3P-15A	ELS;13,15,17	WALL MOUNT	-	-	-	JOCKEY PUMP	BASE
HP-1	208-1-60	15 MCA	3/4"C-2#10+1#10GND	2P-20A	EP1;36,38	-	STRUT MOUNT	-	-	REFER TO DETAILS 1 & 2/E-602. WIRE WP GFI RECEPTACLE TO PANEL "HP3", CKT #28	BASE
HP-2	208-1-60	10 MCA	3/4"C-2#12+1#12GND	2P-15A	EPB;11,13	-	WALL MOUNT	-	-	REFER TO DETAIL 1/E-602.	BASE
HP-3	208-1-60	10 MCA	3/4"C-2#12+1#12GND	2P-15A	EPB;15,17	-	WALL MOUNT	-	-	REFER TO DETAIL 1/E-602.	BASE
HP-4	208-1-60	10 MCA	3/4"C-2#10+1#10GND	2P-15A	EP1;32,34	-	STRUT MOUNT	-	-	REFER TO DETAIL 1/E-602. WIRE WP GFI RECEPTACLE TO PANEL "PP1A", CKT #39	BASE
HWH-1	120-1-60	5 MCA	3/4"C-2#12+1#12GND	1P-15A	PP1A;32	-	WALL MOUNT	-	-	-	BASE
IHRU-B1	208-1-60	.06 MCA	3/4"C-2#12+1+12GND	2P-15A	PPB;30,32	-	CEILING MOUNT	-	-	-	BASE
IHRU-B2	208-1-60	.06 MCA	3/4"C-2#12+1+12GND	2P-15A	PPB;30,32	-	CEILING MOUNT	-	-	-	BASE
IHRU-101	208-1-60	.06 MCA	3/4"C-2#12+1+12GND	2P-15A	HP1;2,4	-	CEILING MOUNT	-	-	-	BASE
IHRU-102	208-1-60	.06 MCA	3/4"C-2#12+1+12GND	2P-15A	HP1;2,4	-	CEILING MOUNT	-	-	-	BASE
IHRU-103	208-1-60	.06 MCA	3/4"C-2#12+1+12GND	2P-15A	HP1;2,4	-	CEILING MOUNT	-	-	-	BASE
IHRU-104	208-1-60	.06 MCA	3/4"C-2#12+1+12GND	2P-15A	HP1;2,4	-	CEILING MOUNT	-	-	-	BASE
IHRU-105	208-1-60	.06 MCA	3/4"C-2#12+1+12GND	2P-15A	HP1;2,4	-	CEILING MOUNT	-	-	-	BASE
IHRU-106	208-1-60	.06 MCA	3/4"C-2#12+1+12GND	2P-15A	HP1;2,4	-	CEILING MOUNT	-	-	-	BASE
IHRU-107	208-1-60	.06 MCA	3/4"C-2#12+1+12GND	2P-15A	HP1;2,4	-	CEILING MOUNT	-	-	-	BASE
IHRU-108	208-1-60	.06 MCA	3/4"C-2#12+1+12GND	2P-15A	HP1;2,4	-	CEILING MOUNT	-	-	-	BASE
IHRU-201	208-1-60	.06 MCA	3/4"C-2#12+1+12GND	2P-15A	HP2;2,4	-	CEILING MOUNT	-	-	-	BASE
IHRU-202	208-1-60	.06 MCA	3/4"C-2#12+1+12GND	2P-15A	HP2;2,4	-	CEILING MOUNT	-	-	-	BASE
IHRU-203	208-1-60	.06 MCA	3/4"C-2#12+1+12GND	2P-15A	HP2;2,4	-	CEILING MOUNT	-	-	-	BASE
IHRU-204	208-1-60	.06 MCA	3/4"C-2#12+1+12GND	2P-15A	HP2;2,4	-	CEILING MOUNT	-	-	-	BASE
IHRU-205	208-1-60	.06 MCA	3/4"C-2#12+1+12GND	2P-15A	HP2;2,4	-	CEILING MOUNT	-	-	-	BASE
IHRU-206	208-1-60	.06 MCA	3/4"C-2#12+1+12GND	2P-15A	HP2;2,4	-	CEILING MOUNT	-	-	-	BASE
IHRU-207	208-1-60	.06 MCA	3/4"C-2#12+1+12GND	2P-15A	HP2;2,4	-	CEILING MOUNT	-	-	-	BASE
IHRU-208	208-1-60	.06 MCA	3/4"C-2#12+1+12GND	2P-15A	HP2;2,4	-	CEILING MOUNT	-	-	-	BASE
IHRU-301	208-1-60	.06 MCA	3/4"C-2#12+1+12GND	2P-15A	HP3;3,5	-	CEILING MOUNT	-	-	-	BASE
IHRU-302	208-1-60	.06 MCA	3/4"C-2#12+1+12GND	2P-15A	HP3;3,5	-	CEILING MOUNT	-	-	-	BASE
IHRU-303	208-1-60	.06 MCA	3/4"C-2#12+1+12GND	2P-15A	HP3;3,5	-	CEILING MOUNT	-	-	-	BASE
IHRU-304	208-1-60	.06 MCA	3/4"C-2#12+1+12GND	2P-15A	HP3;3,5	-	CEILING MOUNT	-	-	-	BASE
IHRU-305	208-1-60	.06 MCA	3/4"C-2#12+1+12GND	2P-15A	HP3;4,6	-	CEILING MOUNT	-	-	-	BASE
IHRU-306	208-1-60	.06 MCA	3/4"C-2#12+1+12GND	2P-15A	HP3;4,6	-	CEILING MOUNT	-	-	-	BASE
IHRU-307	208-1-60	.06 MCA	3/4"C-2#12+1+12GND	2P-15A	HP3;4,6	-	CEILING MOUNT	-	-	-	BASE
IHRU-308	208-1-60	.06 MCA	3/4"C-2#12+1+12GND	2P-15A	HP3;4,6	-	CEILING MOUNT	-	-	-	BASE
OHRU-1	208-3-60	72.2 MCA	1-1/4"C-3#3+1#8GND	3P-80A	DP2;5	-	STRUT MOUNT	-	-	REFER TO DETAIL 3/E-602	BASE
		72.2 MCA	1-1/4"C-3#3+1#8GND	3P-80A	DP2;6	-	STRUT MOUNT	-	-		
OHRU-2	208-3-60	72.2 MCA	1-1/4"C-3#3+1#8GND	3P-80A	MDP2;6	-	STRUT MOUNT	-	-	REFER TO DETAIL 3/E-602	BASE
		63.3 MCA	1"C-3#4+1#8GND	3P-70A	MDP2;7	-	STRUT MOUNT	-	-		
OHRU-3	208-3-60	63.3 MCA	1"C-3#4+1#8GND	3P-70A	HP2A;4,6,8	-	STRUT MOUNT	-	-	REFER TO DETAIL 3/E-602	BASE
		63.3 MCA	1"C-3#4+1#8GND	3P-70A	HP2A;9,11,13	-	STRUT MOUNT	-	-		
RTU-1	208-3-60	47 MCA	1"C-3#4+1#4GND	3P-70A	DP2;1	UNIT MOUNT	-	-	-	CONVEINENCE RECEPTACLE BY MFG.	BASE
RTU-2	208-3-60	91 MCA	1-1/2"C-3#1/0+1#1GND	3P-110A	DP2;7	UNIT MOUNT	-	X	X	CONVEINENCE RECEPTACLE AND LIGHT BY MFG.	BASE
RTU-3	208-3-60	98 MCA	1-1/2"C-3#1/0+1#4GND	3P-125A	DP;12	UNIT MOUNT	-	X	X	CONVEINENCE RECEPTACLE AND LIGHT BY MFG.	BASE
RTU-4	208-3-60	98 MCA	1-1/2"C-3#1/0+1#4GND	3P-125A	DP;14	UNIT MOUNT	-	-	-	CONVEINENCE RECEPTACLE BY MFG.	BASE
RTU-5	208-3-60	55 MCA	1-1/4"C-3#4+1#4GND	3P-80A	DP2;8	UNIT MOUNT	-	X	X	CONVEINENCE RECEPTACLE AND LIGHT BY MFG.	BASE
RTU-6	208-3-60	55 MCA	1-1/4"C-3#4+1#4GND	3P-80A	DP2;9	UNIT MOUNT	-	X	X	CONVEINENCE RECEPTACLE AND LIGHT BY MFG.	BASE
RTU-7	208-3-60	55 MCA	1-1/4"C-3#4+1#4GND	3P-80A	DP2;10	UNIT MOUNT	-	X	X	CONVEINENCE RECEPTACLE AND LIGHT BY MFG.	BASE
RTU-8	208-3-60	104 MCA	1-1-1/4"C-3#1+1#6GND	3P-125A	DP2;11	UNIT MOUNT	-	X	X	CONVEINENCE RECEPTACLE AND LIGHT BY MFG.	BASE
UH-1	208-1-60	30 MCA	3/4"C-2#6+1#6GND	2P-30A	PPB;21,23	INTEGRAL	-	-	-	-	BASE
UH-2	208-1-60	18 MCA	3/4"C-2#8+1#8GND	2P-20A	PPB;22,24	INTEGRAL	-	-	-	-	BASE
UH-3	208-1-60	35 MCA	3/4"C-2#6+1#10GND	2P-35A	PPB;25,27	INTEGRAL	-	-	-	-	BASE
UH-4	208-1-60	35 MCA	3/4"C-2#6+1#10GND	2P-35A	PPB;26,28	INTEGRAL	-	-	-	-	BASE
UH-5	208-1-60	18 MCA	3/4"C-2#12+1#12GND	2P-20A	PPB;29,31	INTEGRAL	-	-	-	-	BASE
VAV-1	208-1-60	30.8 MCA	3/4"C-2#8+1#10GND	2P-35A	PP1A;28,30	UNIT MOUNT	-	-	-	-	BASE
VAV-2	208-1-60	5.2 MCA	3/4"C-2#12+1#12GND	2P-15A	HPB;5,7	UNIT MOUNT	-	-	-	-	BASE
VAV-3	208-1-60	14.4 MCA	3/4"C-2#12+1#12GND	2P-15A	HPB;9,11	UNIT MOUNT	-	-	-	-	BASE
VAV-4	208-1-60	9.2 MCA	3/4"C-2#12+1#12GND	2P-15A	HPB;13,15	UNIT MOUNT	-	-	-	-	BASE
VAV-5	208-1-60	40 MCA	3/4"C-2#6+1#10GND	2P-40A	DP;1	UNIT MOUNT	-	-	-	-	BASE
VAV-6	208-1-60	36 MCA	3/4"C-2#8+1#10GND	2P-40A	DP;2	UNIT MOUNT	-	-	-	-	BASE
VAV-7	208-1-60	40 MCA	3/4"C-2#6+1#10GND	2P-40A	HP2;12,14	UNIT MOUNT	-	-	-	-	BASE
VAV-8	208-1-60	36 MCA	3/4"C-2#6+1#10GND	2P-40A	HP2;16,18	UNIT MOUNT	-	-	-	-	BASE
VAV-9	208-1-60	32.8 MCA	3/4"C-2#8+1#10GND	2P-35A	HP2;20,22	UNIT MOUNT	-	-	-	-	BASE
VAV-10	208-1-60	18.3 MCA	3/4"C-2#12+1#12GND	2P-20A	HP2;19,21	UNIT MOUNT	-	-	-	-	BASE
VAV-11	208-1-60	27.5 MCA	3/4"C-2#10+1#10GND	2P-30A	HP2;23,25	UNIT MOUNT	-	-	-	-	BASE

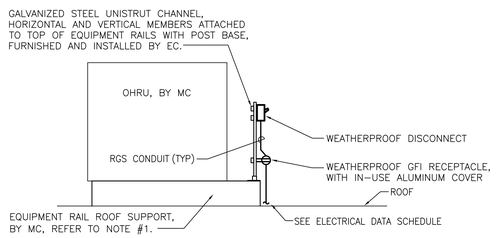
INDICATES CONDUIT AND CABLING IS SIZED FOR VOLTAGE DROP.

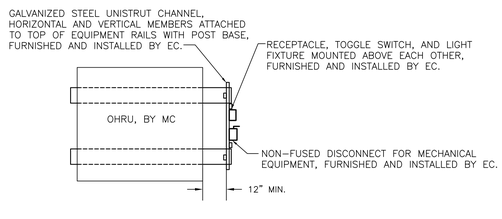




NOTES:
1. MC PROVIDED EQUIPMENT RAIL ROOF SUPPORTS SHALL EXTEND MINIMUM 18" BEYOND END OF UNIT ON ONE SIDE FOR MOUNTING AND INSTALLATION OF UNISTRUT STRUCTURE FOR ELECTRICAL EQUIPMENT. COORDINATE FINAL MOUNTING OF UNITSTRUT AND ELECTRICAL EQUIPMENT TO ENSURE IT DOES NOT INHIBIT ACCESS AND REQUIRED CLEARANCES TO THE MECHANICAL EQUIPMENT.
2. PROVIDE CONDUIT SUPPORTS, AS NEEDED, BETWEEN PIPE CURB CONDUITS PENETRATE ROOF AND EQUIPMENT. ELECTRICAL CONDUITS SHALL NOT BE SUPPORTED FROM MECHANICAL PIPING, THOUGH USE OF MECHANICAL ROOF MOUNTED PIPE SUPPORTS IS ALLOWED WHEN COORDINATED WITH MC IN FIELD.
3. ALL GALVANIZED STEEL SUPPORTS FOR DISCONNECT AND RECEPTACLE ARE FURNISHED AND INSTALLED BY THE EC.

2 ROOF MOUNTED CONDENSING UNIT RECEPTACLE & DISCONNECT DETAIL
NOT TO SCALE





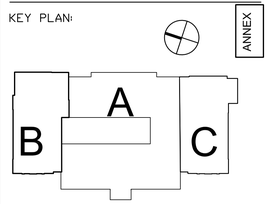
NOTES:
1. MC PROVIDED EQUIPMENT RAIL ROOF SUPPORTS SHALL EXTEND MINIMUM 12" BEYOND END OF UNIT ON ONE SIDE FOR MOUNTING AND INSTALLATION OF UNISTRUT STRUCTURE FOR ELECTRICAL EQUIPMENT. COORDINATE FINAL MOUNTING OF UNITSTRUT AND ELECTRICAL EQUIPMENT TO ENSURE IT DOES NOT INHIBIT ACCESS AND REQUIRED CLEARANCES TO THE MECHANICAL EQUIPMENT.
2. PROVIDE CONDUIT SUPPORTS, AS NEEDED, BETWEEN PIPE CURB CONDUITS PENETRATE ROOF AND EQUIPMENT. ELECTRICAL CONDUITS SHALL NOT BE SUPPORTED FROM MECHANICAL PIPING, THOUGH USE OF MECHANICAL ROOF MOUNTED PIPE SUPPORTS IS ALLOWED WHEN COORDINATED WITH MC IN FIELD.

3 ROOF MOUNTED OHRU RECEPTACLE & DISCONNECT DETAIL
NOT TO SCALE

M/E/P Engineer:
SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



No.	Date	Description
	12/08/25	OUT TO BID
	12/03/25	DCA Submission

Revisions / Issues

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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:
WIRING SCHEDULES

Sheet No:
E-602
Sheet 0 of 000

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L:\2528A\ELECTRICAL\

12/4/2025 10:56:49 AM

LOCATION: SCENE SHOP

PANEL SCHEDULE FOR NEW PANEL: "CNC"
120/208V, 3PH, 4W, 125A BUS,
125A MLO, 22,000AIC

SURFACE MOUNTED

CKT NO	CIRCUIT POLE	AMP	REMARKS	A	B	C	A	B	C	REMARKS	AMP	CIRCUIT POLE	CKT NO
1	2	20	SPARE (FUTURE VFD FOR CNC CONTROLLER)	0			0			SPARE (FUTURE BECKER PUMP 8.9HP)	50	2	2
3					0			0					4
5	2	50	SPARE (FUTURE VFD FOR ATC SPINDLE 10HP)			0			0	SPARE (FUTURE BECKER PUMP 8.9HP)	30	3	6
7				0			0						8
9	3	30	SPARE (FUTURE VFD ATC SPINDLE 10HP)		0			0					10
11						0			0	SPARE (FUTURE AIR COMPRESSOR)	20	3	12
13				0			0						14
15	1	20	SPARE		0			0					16
17	1	20	SPARE			0			0	SPARE (FUTURE DUST COLLECTOR)	30	2	18
19	1	20	SPARE	0			0						20
21	1	20	SPARE		0			0		SPARE	20	1	22
23	1	20	SPARE			0			0	SPARE	20	1	24
25	1	-	PROVISION	0			0			PROVISION	-	1	26
27	1	-	PROVISION		0			0		PROVISION	-	1	28
29	1	-	PROVISION			0			0	PROVISION	-	1	30
31	1	-	PROVISION	0			0			PROVISION	-	1	32
33	1	-	PROVISION		0			0		PROVISION	-	1	34
35	1	-	PROVISION			0			0	PROVISION	-	1	36
37	1	-	PROVISION	0			0			PROVISION	-	1	38
39	1	-	PROVISION		0			0		PROVISION	-	1	40
41	1	-	PROVISION			0			0	PROVISION	-	1	42
				0	0	0	0	0	0				

PHASE A: 0.00 kVA
PHASE B: 0.00 kVA
PHASE C: 0.00 kVA
TOTAL: 0.00 kVA

LOCATION: FIRST FLOOR ELECTRIC RM. 109C

PANEL SCHEDULE FOR (E)PANEL: "CP1"
120/208V, 3PH, 4W, 150A BUS,
150A MCB
SIEMENS TYPE P1

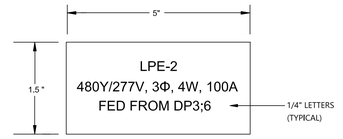
SURFACE MOUNTED

CKT NO	CIRCUIT POLE	AMP	REMARKS	A	B	C	A	B	C	REMARKS	AMP	CIRCUIT POLE	CKT NO
1	1	20	(E)COMPUTER LAB REC.	0			0			(E)COMPUTER LAB REC.	20	1	2
3	1	20	(E)COMPUTER LAB REC.		0			0		(E)COMPUTER LAB REC.	20	1	4
5	1	20	(E)COMPUTER LAB REC.			0			0	(E)TECH ROOM REC.	20	1	6
7	1	20	(E)TECH ROOM REC.	0			0			(E)TECH ROOM REC.	20	1	8
9	1	20	(E)TECH ROOM REC.		0			0		(E)TECH ROOM REC.	20	1	10
11	1	20	(E)COMPUTER LAB REC.			0			0	(E)MEDIA CENTER FLOOR BOX	20	1	12
13	1	20	(E)MEDIA CENTER FLOOR BOX	0			0			(E)MEDIA CENTER FLOOR BOX	20	1	14
15	1	20	(E)MEDIA CENTER REC.		0			0		(E)MEDIA CENTER REC.	20	1	16
17	1	20	(E)MEDIA CENTER REC.			0			0	(E)LIBRARIAN OFFICE REC.	20	1	18
19	1	20	(E)MEDIA CNETER WORK RM. REC.	0			720			**RECEPTACLES, CORRIDORS D1 & E**	**20**	**1**	20
21	1	20	(E)FACULTY WORK RM. REC.		0			0		(E)FACULTY WORK RM. REC.	20	1	22
23	2	20	**FURNITURE WHIP, SUITE 110**			540			1080	**FURNITURE WHIP, SUITE 110**	**20**	**2**	24
25				1080			540						26
27	2	20	**FURNITURE WHIP, SUITE 110**		1080			1260		(E)CP2	70	3	28
29						1080			1800				30
31	1	20	**RECEPTACLE, PRINTER SUITE 110**	1000			2620						32
33	3	60	(E)CP1A		0				540	**RECEPTACLES, SUITE 110, CONFERENCE 110A**	**20**	**1**	34
35						0			1080	**RECEPTACLES, OFFICES 110B, 110C**	**20**	**1**	36
37				0			1080			**RECEPTACLES, SUITE 110, OFFICE 110D**	**20**	**1**	38
39	1	-	SPACE		0			0		SPACE	-	1	40
41	1	-	SPACE			0			0	SPACE	-	1	42
				2080	1080	1620	4960	1800	3960				

PHASE A: 7.04 kVA
PHASE B: 2.88 kVA
PHASE C: 5.58 kVA
TOTAL: 15.50 kVA

NOTES:

1. REFER TO DRAWINGS E-001 & E-002 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. ALL WORK SHOWN IS TO BE NEW, UNLESS OTHERWISE NOTED.
3. CIRCUIT DESCRIPTIONS THAT ARE IN BOLD TEXT ARE NEW CIRCUITS.
4. CIRCUIT DESCRIPTIONS THAT ARE GREY/SHADED REPRESENT NEW CIRCUIT BREAKER TO BE FURNISHED AND INSTALLED IN EXISTING PANELS.



NAME PLATE NOTES:

1. REFER TO SPECIFICATIONS FOR ADDITIONAL NAMEPLATE REQUIREMENTS.
2. NAMEPLATE TO BE 1/16" THICK WHITE LAMINATED ACRYLIC OR MELAMINE LABEL WITH BLACK CENTER LAMINATE. FACE SHALL BE WHITE, ENGRAVED LETTERS SHALL BE BLACK.
3. NAMEPLATE INFORMATION SHALL INCLUDE PANEL NAME, SUPPLY VOLTAGE, AMPERAGE AND SOURCE PANEL NAME AND CIRCUIT NUMBER.

1 TYPICAL PANEL LABEL DETAIL
NOT TO SCALE

LOCATION: SECOND FLOOR ELECTRIC RM. 215D

PANEL SCHEDULE FOR (E)PANEL: "CP2"
120/208V, 3PH, 4W, 225A BUS,
225A MLO
EATON/CUTLER-HAMMER TYPE PRL1a

SURFACE MOUNTED

CKT NO	CIRCUIT POLE	AMP	REMARKS	A	B	C	A	B	C	REMARKS	AMP	CIRCUIT POLE	CKT NO
1	1	20	**RECEPTACLES, OFFICE 205**	900			1000			**RECEPTACLES, PRINTER OFFICE 205**	**20**	**1**	2
3	1	20	**RECEPTACLES, CORRIDOR B2 & WOMENS TR 213B**		720			1080		**RECEPTACLES, SUITE 216**	**20**	**1**	4
5	1	20	**RECEPTACLES, CONFERENCE RM 217**			540			720	**FLOOR BOX RECEPTACLES, CONFERENCE RM 217**	**20**	**1**	6
7	1	20	**RECEPTACLES, CONFERENCE RM 217**	720			0			SPARE	20	1	8
9	1	20	SPARE		0			0		SPARE	20	1	10
11	1	20	SPARE			0			0	SPARE	20	1	12
13	1	20	SPARE	0			0			SPARE	20	1	14
15	1	20	SPARE		0			0		SPARE	20	1	16
17	1	20	SPARE			0			0	SPARE	20	1	18
19	3	30	SPARE	0			0			SPARE	20	1	20
21					0			0		SPACE	-	1	22
23						0			0	SPACE	-	1	24
25	1	-	SPACE	0			0			SPACE	-	1	26
27	1	-	SPACE		0			0		SPACE	-	1	28
29	1	-	SPACE			0			0	SPACE	-	1	30
				1620	720	540	1000	1080	720				

PHASE A: 2.62 kVA
PHASE B: 1.80 kVA
PHASE C: 1.26 kVA
TOTAL: 5.68 kVA

LOCATION: BASEMENT BOILER RM. B02

PANEL SCHEDULE FOR PANEL: "ELS"
120/208V, 3PH, 4W, 225A BUS,
225A MLO, 65,000AIC
WITH SPD

SURFACE MOUNTED

CKT NO	CIRCUIT POLE	AMP	REMARKS	A	B	C	A	B	C	REMARKS	AMP	CIRCUIT POLE	CKT NO
1	1	20	LIGHTING, STAIRS 1 & 2	448			309			LIGHTING, STAIRS 3 & 4	20	1	2
3	1	20	LIGHTING, BASEMENT		626			878		LIGHTING, FIRST FLOOR NORTH	20	1	4
5	1	20	LIGHTING, SECOND FLOOR			854			984	LIGHTING, FIRST FLOOR SOUTH	20	1	6
7	1	20	LIGHTING, THIRD FLOOR	891			701			LIGHTING, BUILDING EXTERIOR	20	1	8
9	1	20	LIGHTING, CORRIDOR B1, B2, AND OPEN STAIR		539			1121		LIGHTING, BUILDING EXTERIOR	20	1	10
11	1	20	SPARE			0			0	SPARE	20	1	12
13	3	15	FP-2, JOCKEY FIRE PUMP	420			0			SPARE	20	1	14
15					420			0		SPARE	20	1	16
17						420			0	SPARE	20	1	18
19	1	20	SPARE	0			0			SPARE	20	1	20
21	1	-	SPACE		0			0		SPACE	-	1	22
23	1	-	SPACE			0			0	SPACE	-	1	24
25	1	-	SPACE	0			0			SPACE	-	1	26
27	1	-	SPACE		0			0		SPACE	-	1	28
29	1	-	SPACE			0			0	SPACE	-	1	30
31	1	-	SPACE	0			0			SPACE	-	1	32
33	1	-	SPACE		0			0		SPACE	-	1	34
35	1	-	SPACE			0			0	SPACE	-	1	36
37	1	-	SPACE	0			0			SPACE	-	1	38
39	1	-	SPACE		0			0		SPACE	-	1	40
41	1	-	SPACE			0			0	SPACE	-	1	42
				1759	1585	1274	1010	1999	984				

PHASE A: 2.77 kVA
PHASE B: 3.58 kVA
PHASE C: 2.26 kVA
TOTAL: 8.61 kVA

HOMERUN CIRCUITS TO 'FIRST LIGHT GREATER THAN 100' SHALL BE #10 AWG MINIMUM
HOMERUN CIRCUITS TO 'FIRST LIGHT GREATER THAN 200' SHALL BE #8 AWG MINIMUM

LOCATION: FIRST FLOOR ELECTRIC RM. 109C

PANEL SCHEDULE FOR (E)PANEL: "EP1"
120/208V, 3PH, 4W, 125A BUS,
125A MLO
SIEMENS TYPE P1

SURFACE MOUNTED

CKT NO	CIRCUIT POLE	AMP	REMARKS	A	B	C	A	B	C	REMARKS	AMP	CIRCUIT POLE	CKT NO
1	1	20	(E)EXITS AND EM. LIGHTS	250			200			(E)EXITS AND EM. LIGHTS MEDIA CENTER	20	1	2
3	1	20	(E)EM. LIGHTS MEDIA CENTER		1000			500		(E)ELEVATOR LIGHTS	20	1	4
5	1	20	(E)MAGNEIC DOOR HOLDERS			800			700	(E)GIRLS LOCKER AREA	20	1	6
7	1	20	**QUAD RECEPTACLE, MDF ROOM**	360			800			(E)KITCHEN AREA	20	1	8
9	1	20	**QUAD RECEPTACLE, MDF ROOM**		360			720		**RECEPTACLES, IDF ROOM**	**20**	**1**	10
11	1	20	**QUAD RECEPTACLE, MDF ROOM**			360			500	**FIRE ALARM PANEL**	**20**	**1**	12
13	1	20	(E)BOYS LOCKER ROOM & 103	700			500			**FIRE ALARM NAC & DIALER PANEL**	**20**	**1**	14
15	**1**	**20**	**QUAD RECEPTACLE, MDF ROOM**		360			360		**QUAD RECEPTACLE, MDF ROOM**	**20**	**1**	16
17	**1**	**20**	**QUAD RECEPTACLE RACK #1, MDF ROOM**			360			360	**QUAD RECEPTACLE, MDF ROOM**	**20**	**1**	18
19	**1**	**20**	**QUAD RECEPTACLE RACK #1, MDF ROOM**	360			1500			**NEMA L6-30R RECEPTACLE RACK #2, MDF ROOM**	**30**	**2**	20
21	**1**	**20**	**MDF ROOM CONDENSATE PUMP**		500			1500					22
23	**1**	**20**	**QUAD RECEPTACLE RACK #1, IDF ROOM**			360			1500	**NEMA L6-30R RECEPTACLE RACK #1, MDF ROOM**	**30**	**2**	24
25	**1**	**20**	**QUAD RECEPTACLE RACK #1, IDF ROOM**	360			1500						26
27	**1**	**20**	**QUAD RECEPTACLE RACK #2, MDF ROOM**		360			360		**QUAD RECEPTACLE, IDF ROOM**	**20**	**1**	28
29	**1**	**20**	**QUAD RECEPTACLE RACK #2, MDF ROOM**			360			360	**QUAD RECEPTACLE, IDF ROOM**	**20**	**1**	30
31	2	30	**NEMA L6-30R RECEPTACLE RACK #1, IDF ROOM**	1500			1040			**A/C SPLIT SYSTEM FOR IDF 116 - HP-4 & AC-4**	**15**	**2**	32
33					1500			1040					34
35	2	30	**NEMA L6-30R RECEPTACLE RACK #2, IDF ROOM**			1500			1560	**A/C SPLIT SYSTEM FOR MDF 101 - HP-1 & AC-1**	**20**	**2**	36
37				1500			1560						38
39	**1**	**20**	**QUAD RECEPTACLE RACK #2, IDF ROOM**		360			360		**CP-2 & CP-3, CONDENSATE PUMPS**	**15**	**1**	40
41	**1**	**20**	**QUAD RECEPTACLE RACK #2, IDF ROOM**			360			0	SPACE	-	1	42
				5030	4440	4100	7100	4840	4980				

PHASE A: 12.13 kVA
PHASE B: 9.28 kVA
PHASE C: 9.08 kVA
TOTAL: 30.49 kVA

LOCATION: SECOND FLOOR ELECTRIC RM. 215D

PANEL SCHEDULE FOR (E)PANEL: "EP2"
120/208V, 3PH, 4W, 125A BUS,
125A MLO
SIEMENS TYPE P1

SURFACE MOUNTED

CKT NO	CIRCUIT POLE	AMP	REMARKS	A	B	C	A	B	C	REMARKS	AMP	CIRCUIT POLE	CKT NO
1	1	20	**RECEPTACLE, IDF RM. 215B**	360			360			**RECEPTACLE RACK #2, IDF RM. 215B**	20	1	2
3	1	20	**RECEPTACLE, IDF RM. 215B**		360			360		**RECEPTACLE RACK #2, IDF RM. 215B**	20	1	4
5	1	20	(E)GYM LIGHTS			0			0	(E)GYM EXITS	20	1	6
7	1	20	(E)GYM LIGHTS	0			1500			**NEMA L6-30R RECEPTACLE, IDF RM. 215B**	**30**	**2**	8
9	1	20	**RECEPTACLE, IDF RM. 215B**		360			1500					10
11	1	20	SPARE			0			1500	**NEMA L6-30R RECEPTACLE, IDF RM. 215B**	**30**	**2**	12
13	1	20	SPARE	0			1500						14
15	1	20	SPARE		0			360		**RECEPTACLE RACK #1, IDF RM. 215B**	20	1	16
17	1	20	SPARE			0			360	**RECEPTACLE RACK #1, IDF RM. 215B**	20	1	18
19	1	20	SPARE	0			0			SPARE	20	1	20
21	1	-	SPACE		1500			1500		SPACE	-	1	22
23	1	-	SPACE			1500			1500	SPACE	-	1	24
25	1	-	SPACE	0			0			SPACE	-	1	26
27	1	-	SPACE		0			0		SPACE	-	1	28
29	1	-	SPACE			0			0	SPACE	-	1	30
31	1	-	SPACE	0			0			SPACE	-	1	32
33	1	-	SPACE		0			0		SPACE	-	1	34
35	1	-	SPACE			0			0	SPACE	-	1	36
37	1	-	SPACE	0			0			SPACE	-	1	38
39	1	-	SPACE		0			0		SPACE	-	1	40
41	1	-	SPACE			0			0	SPACE	-	1	42
				360	2220	1500	3360	3720	3360				

PHASE A: 3.72 kVA
PHASE B: 5.94 kVA
PHASE C: 4.86 kVA
TOTAL: 14.52 kVA

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:

No.	Date	Description
	12/08/25	OUT TO BID
	12/03/25	DCA Submission

Revisions / Issues

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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:
PANEL SCHEDULES

Sheet No:
E-603
Sheet 0 of 000

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12/4/2025 10:56:51 AM

PANEL SCHEDULE FOR (E)PANEL: "EP3"
LOCATION: THIRD FLOOR ELECTRIC RM 303C
120/208V, 3PH, 4W, 125A BUS, 125A MLO
SIEMENS TYPE P1
SURFACE MOUNTED

CKT NO	CIRCUIT POLE	AMP	REMARKS	A	B	C	A	B	C	REMARKS	AMP	CIRCUIT POLE	CKT NO
1	1	20	SPARE	0			0			SPARE	20	1	2
3	1	20	SPARE		0			1500		**NEMA L6-30R RECEPTACLE IDF ROOM**	**30**	**2**	4
5	1	20	**RECEPTACLES, IDF ROOM**			360			1500				6
7	1	20	**RECEPTACLES, IDF ROOM**	360			1500			**NEMA L6-30R RECEPTACLE IDF ROOM**	**30**	**2**	8
9	1	20	**RECEPTACLES, IDF ROOM**		720			1500					10
11	1	20	**QUAD RECEPTACLE RACK #1, IDF ROOM**			360			0	(E) SPARE	20	1	12
13	1	20	**QUAD RECEPTACLE RACK #1, IDF ROOM**	360			0			(E) SPARE	20	1	14
15	1	20	**QUAD RECEPTACLE RACK #2, IDF ROOM**		360			0		(E) SPARE	20	1	16
17	1	20	**QUAD RECEPTACLE RACK #2, IDF ROOM**			360			0	(E) SPARE	20	1	18
19	1	20	(E) SPARE	0			0			(E) SPARE	20	1	20
21	1	20	(E) SPARE		0			0		(E) SPARE	20	1	22
23	1	20	(E) SPARE			0			0	(E) SPARE	20	1	24
25	1	20	(E) SPARE	0			0			(E) SPARE	20	1	26
27	1	20	(E) SPARE		0			0		(E) SPARE	20	1	28
29	1	20	(E) SPARE			0			0	(E) SPARE	20	1	30
31	1	20	(E) SPARE	0			0			(E) SPARE	20	1	32
33	1	20	(E) SPARE		0			0		(E) SPARE	20	1	34
35	1	20	(E) SPARE			0			0	(E) SPARE	20	1	36
37	1	20	(E) SPARE	0			0			(E) SPARE	20	1	38
39	1	20	(E) SPARE		0			0		(E) SPARE	20	1	40
41	1	20	(E) SPARE			0			0	(E) SPARE	20	1	42
				720	1080	1080	1500	3000	1500				

PHASE A: 2.22 kVA
PHASE B: 4.08 kVA
PHASE C: 2.58 kVA
TOTAL: 8.88 kVA

PANEL SCHEDULE FOR (E)PANEL: "EPB"
LOCATION: BASEMENT BOILER RM. B02
120/208V, 3PH, 4W, 225A BUS, 225A MLO
SIEMENS TYPE S3
SURFACE MOUNTED

CKT NO	CIRCUIT POLE	AMP	REMARKS	A	B	C	A	B	C	REMARKS	AMP	CIRCUIT POLE	CKT NO
1				0				180		**RECEPTACLE, FIRE PUMP ROOM B04B**	**20**	**1**	2
3	3	125	(E)ELEVATOR (4 POLE W/ SHUNT TRIP)		0				180	**RECEPTACLE, BOILER ROOM B02**	**20**	**1**	4
5						0				**GENERATOR RECEPTACLE**	**20**	**1**	6
7	1	20	(E)NIGHT LITE ABOVE PANEL	0			0			**GENERATOR WINDING HEATERS**	**20**	**1**	8
9	**1**	**20**	**ATC PANEL**		500			0		**GENERATOR BLOCK HEATER**	**20**	**1**	10
11	**2**	**15**	**A/C SPLIT SYSTEM FOR IDF-215B, HP-2 & AC-2**			1040			0	**GENERATOR BATTERY CHARGER**	**20**	**1**	12
13				1040			0			SPARE	20	1	14
15	**2**	**15**	**A/C SPLIT SYSTEM FOR IDF-305D, HP-3 & AC-3**		1040			0		SPARE	20	1	16
17						1040			0	SPARE	20	1	18
19	1	20	SPARE	0			0			SPARE	20	1	20
21	1	20	SPARE		0			0		SPARE	20	1	22
23	1	20	(E)REC. NEXT TO PANEL			0			800	**(REL)BASEMENT SUMP PUMP**	**20**	**2**	24
25	1	-	SPACE	0			800						26
27	1	-	SPACE		0			1000		**SPRINKLER SYSTEM DRY SYSTEM AIR COMPRESSOR**	**20**	**2**	28
29	1	-	SPACE			0			1000				30
31	1	-	SPACE	0			0						32
33	1	-	SPACE		0			0		(E)SUBFEED PANEL "EP1"	60	3	34
35	1	-	SPACE			0			0				36
37				0			0						38
39	3	60	(E)SUBFEED PANEL "EP2"		0			0		(E)SUBFEED PANEL "EP3"	60	3	40
41						0			0				42
				1040	1540	2080	980	1180	1980				

PHASE A: 2.02 kVA
PHASE B: 2.72 kVA
PHASE C: 4.06 kVA
TOTAL: 8.80 kVA

NOTES:

1. REFER TO DRAWINGS E–001 & E–002 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. ALL WORK SHOWN IS TO BE NEW, UNLESS OTHERWISE NOTED.
3. CIRCUIT DESCRIPTIONS THAT ARE IN BOLD TEXT ARE NEW CIRCUITS.
4. CIRCUIT DESCRIPTIONS THAT ARE GREY/SHADED REPRESENT NEW CIRCUIT BREAKER TO BE FURNISHED AND INSTALLED IN EXISTING PANELS.

PANEL SCHEDULE FOR (E)PANEL: "HP1"
LOCATION: FIRST FLOOR ELECTRIC RM. 109C
120/208V, 3PH, 4W, 250A BUS, 250A MLO
SIEMENS TYPE P1
SURFACE MOUNTED

CKT NO	CIRCUIT POLE	AMP	REMARKS	A	B	C	A	B	C	REMARKS	AMP	CIRCUIT POLE	CKT NO
1	1	20	(E) UV DISTANCE LEARNING LAB	0				1096		**CC-101 THRU CC-105 & IHRU-101 THRU IHRU-108**	**15**	**2**	2
3	1	20	(E) FC LIBRARIAN OFFICE		0				1096				4
5	1	20	(E) FC MEDIA OFFICE			0			1224	**CC-106 THRU CC-132, AHU-128, IHRU-1 THRU IHRU-8**	**15**	**2**	6
7	**2**	**15**	**EBB-1 & EBB-2, ELECTRIC BASEBOARD HEATER**	363			1224						8
9					363			180		**CP-1 , CONDENSATE PUMP**	**15**	**1**	10
11	1	20	SPARE			0			0	SPARE	20	1	12
13	1	20	SPARE	0			0			SPARE	20	1	14
15	1	20	SPARE		0			0		SPACE	-	1	16
17	1	20	(E) ELEVATOR HEATER			0			0	(E) CABINET UNIT HEATER NORTH CORRIDOR	20	1	18
19	2	20	SPARE	0			0			(E) CABINET UNIT HEATER SOUTH CORRIDOR	20	1	20
21					0			0		(E) CABINET UNIT HEATER SOUTH STAIR	20	1	22
23	**2**	**60**	**CUH-1, CABINET UNIT HEATER**			6240			1976	**CUH-2, CABINET UNIT HEATER**	**15**	**2**	24
25				6240			1976						26
27	**2**	**15**	**CUH-3, CABINET UNIT HEATER**		1976			5200		**CUH-4, CABINET UNIT HEATER**	**50**	**2**	28
29						1976			5200				30
31	**2**	**60**	**CUH-5, CABINET UNIT HEATER**	5200			5200			**CUH-6, CABINET UNIT HEATER**	**50**	**2**	32
33					5200			5200					34
35	**2**	**50**	**CUH-7, CABINET UNIT HEATER**			5200			0	SPACE	-	1	36
37				5200			0			SPACE	-	1	38
39	1	-	SPACE		0			0		SPACE	-	1	40
41	1	-	SPACE			0			0	SPACE	-	1	42
				17003	7539	13416	9496	11676	8400				

PHASE A: 26.50 kVA
PHASE B: 19.21 kVA
PHASE C: 21.82 kVA
TOTAL: 67.53 kVA

PANEL SCHEDULE FOR (E)PANEL: "HP2"
LOCATION: SECOND FLOOR ELECTRIC RM. 215D
120/208V, 3PH, 4W, 250A BUS, 250A MLO,
WITH 3P-150A SUB FEED C/B TO PANEL "HP3"
SURFACE MOUNTED SIEMENS TYPE P1

CKT NO	CIRCUIT POLE	AMP	REMARKS	A	B	C	A	B	C	REMARKS	AMP	CIRCUIT POLE	CKT NO
1	**2**	**15**	**CC-201 THRU CC-231 (CC-209&CC-216 EXCLUDED)**	870				358		**CC-232 THRU CC-241 & IHRU-201 THRU IHRU-208**	**15**	**2**	2
3					870				358				4
5	**3**	**50**	**DOAS-3**			4803			1920	**EWH-1, ELECTRIC WALL HEATER**	**20**	**1**	6
7				4803			0			SPARE	20	1	8
9					4803			0		SPARE	20	1	10
11	**2**	**15**	**EBB-3, WOMENS TR 200A**			1260			4160	**VAV-7**	**40**	**2**	12
13				1260			4160						14
15	**2**	**15**	**EBB-4, MENS TR 200B**		1260			3744		**VAV-8**	**40**	**2**	16
17						1260			3744				18
19	**2**	**20**	**VAV-10**	1903			3411			**VAV-9**	**35**	**2**	20
21					1903			3411					22
23	**2**	**30**	**VAV-11**			2860			0	SPARE	20	1	24
25				2860			0			SPARE	20	1	26
27	1	20	SPARE		0			0		(E)EXHAUST FAN RF-4	20	1	28
29	1	20	SPARE			0			0	SPARE	20	1	30
				11697	8837	10183	7929	7513	9824				

PHASE A: 22.64 kVA
PHASE B: 20.05 kVA
PHASE C: 23.30 kVA
TOTAL: 65.99 kVA

PANEL SCHEDULE FOR (E)PANEL: "HP2A"
LOCATION: SECOND FLOOR ELECTRIC RM. 215D
208/120 V, 3PH, 4W, 225A BUS, 225A M.L.O.
EATON/CUTLER HAMMER TYPE PRL1A
SURFACE MOUNTED

CKT NO	CIRCUIT POLE	AMP	REMARKS	A	B	C	A	B	C	REMARKS	AMP	CIRCUIT POLE	CKT NO
1	1	20	(E) GYM EXHAUST FANS	0			0			SPARE	20	1	2
3	1	20	(E) EF-2 & PEF-1 RM. 201		0			7601					4
5	1	20	(E) ROOF UNIT LIGHTS & REC. GYM			0			7601	**OHRU-3, FRAME 1, OUSIDE HEAT RECOVERY UNIT**	**70**	**3**	6
7	1	20	(E) ROOF REC & LIGHT SCIENCE RMS.	0			7601						8
9					7601			0		SPARE	20	1	10
11	**3**	**70**	**OHRU-3, FRAME 2, OUSIDE HEAT RECOVERY UNIT**			7601			0	SPARE	20	1	12
13				7601			0						14
15	1	20	SPARE		0			0		SPARE	50	3	16
17						6120			0				18
19	3	60	(E) HR-2 BOYS LOCKER AREA	6120			0			SPARE	50	3	20
21					6120			0					22
23	1	20	SPARE			0			0				24
25	1	-	SPACE	0			0			SPACE	-	1	26
27	1	-	SPACE		0			0		SPACE	-	1	28
29	1	-	SPACE			0			0	SPACE	-	1	30
31	1	-	SPACE	0			0			SPACE	-	1	32
33	1	-	SPACE		0			0		SPACE	-	1	34
35	1	-	SPACE			0			0	SPACE	-	1	36
37	1	-	SPACE	0			0			SPACE	-	1	38
39	1	-	SPACE		0			0		SPACE	-	1	40
41	1	-	SPACE			0			0	SPACE	-	1	42
				13721	13721	13721	7601	7601	7601				

PHASE A: 21.32 kVA
PHASE B: 21.32 kVA
PHASE C: 21.32 kVA
TOTAL: 63.97 kVA

PANEL SCHEDULE FOR (E)PANEL: "HP3"
LOCATION: THIRD FLOOR ELECTRIC RM. 303C
120/208V, 3PH, 4W, 225A BUS, 225A MLO
SIEMENS TYPE P1
SURFACE MOUNTED

CKT NO	CIRCUIT POLE	AMP	REMARKS	A	B	C	A	B	C	REMARKS	AMP	CIRCUIT POLE	CKT NO
1	1	20	(E) L.V. MEDIA CENTER	0			0			(E) L.V. MEDIA CENTER	20	1	2
3	**2**	**15**	**CC-301 THRU CC-315 & IHRU-301 THRU IHRU-306**		952			983		**CC-316 THRU CC-332 & IHRU-301 THRU IHRU-306**	**15**	**2**	4
5						952			983				6
7	1	20	(E) EXHAUST FAN MEDIA CENTER	0			0			SPARE	20	1	8
9	1	20	(E) EXHAUST FAN FACULTY WORK ROOM		0			0		(E)EXHAUST FAN GIRLS ROOM	20	1	10
11	1	20	(E) EXHAUST FAN ATTIC			0			0	(E)EXHAUST FAN ATTIC	20	1	12
13	1	20	(E) EXHAUST FAN ATTIC	0			0			(E)EXHAUST FAN ATTIC	20	1	14
15	1	20	(E) EXHAUST FAN 2ND FLOOR CORR. ROOF		0			720		**EBB-5, ELECTRIC BASEBOARD HEATER**	**15**	**2**	16
17	1	20	(E) ATC PANEL			500			720				18
19	**1**	**20**	**EF-1, EXHAST FAN**	1236			720			**EBB-6, ELECTRIC BASEBOARD HEATER**	**15**	**2**	20
21	**1**	**20**	**EF-2, EXHAST FAN**		888			720					22
23	1	20	SPARE			0			1056	**C-1, FIRE PROTECTION DRY SPRINKLER AIR COMP.**	**20**	**2**	24
25	1	20	SPARE	0			1056						26
27	1	20	SPARE		0			360		**RECEPTACLES, ROOFTOP AT CU-2 & HP-1**	**20**	**1**	28
29	1	20	SPARE			0			0	SPARE	20	1	30
31	1	-	SPACE	0			0			SPACE	-	1	32
33	1	-	SPACE		0			0		SPACE	-	1	34
35	1	-	SPACE			0			0	SPACE	-	1	36
37	1	-	SPACE	0			0			SPACE	-	1	38
39	1	-	SPACE		0			0		SPACE	-	1	40
41	1	-	SPACE			0			0	SPACE	-	1	42
				1236	1840	1452	1776	2783	2759				

PHASE A: 3.01 kVA
PHASE B: 4.62 kVA
PHASE C: 4.21 kVA
TOTAL: 11.84 kVA

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:

No.	Date	Description
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	12/03/25	DCA Submission

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Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:
PANEL SCHEDULES

Sheet No:
E-604
Sheet 0 of 000

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LOCATION: BASEMENT BOILER RM. B02

PANEL SCHEDULE FOR (E)PANEL: "HPB"
120/208V, 3PH, 4W, 400A BUS,
400A MLO,
WITH 3P 225A SUBFEED CB FOR PANEL "HP1"

SURFACE MOUNTED
PANEL TYPE:
SIEMENS TYPE P1

CKT NO	CIRCUIT POLE	AMP	REMARKS	A	B	C	A	B	C	REMARKS	AMP	CIRCUIT POLE	CKT NO
1	1	20	(E)UV OLD BOY'S LOCKER ROOM	800			800			(E) UV KITCHEN BASEMENT	20	1	2
3	1	20	(E)EX. FAN BASEMENT ENTRANCE		700			168					4
5	**2**	**15**	**VAV-2**			541			168	SPARE	60	3	6
7				541			0						8
9	**2**	**15**	**VAV-3**		1498			0					10
11						1498			0	SPARE	60	3	12
13	**2**	**15**	**VAV-4**	1019			0						14
15					1019			0					16
17						0			0	SPARE	20	3	18
19	3	20	SPARE	0			0						20
21					0			1705					22
23						1705			1705	(E) WING FAN 2	20	3	24
25	3	20	(E) WING FAN 1	1705			1705						26
27					1705			0					28
29						0			0	SPARE	20	3	30
31	3	20	SPARE	0			0						32
33					0			0		SPARE	20	1	34
35	1	20	SPARE			0			0	SPARE	20	1	36
37	**1**	**20**	**EM SHUT-DOWN CONTROL FOR PANEL "SS"**	500			0			SPACE	-	1	38
39	1	20	SPARE		0			0		SPACE	-	1	40
41	1	-	SPACE			0			0	SPACE	-	1	42
				4565	4922	3744	2505	1874	1874				

PHASE A: 37.07 kVA
PHASE B: 27.61 kVA
PHASE C: 29.40 kVA
TOTAL: 94.08 kVA

LOCATION: FIRST FLOOR ELECTRIC RM. 109C

PANEL SCHEDULE FOR (E)PANEL: "LP1"
120/208V, 3PH, 4W, 250A BUS,
250A MLO
SIEMENS TYPE P1

SURFACE MOUNTED

CKT NO	CIRCUIT POLE	AMP	REMARKS	A	B	C	A	B	C	REMARKS	AMP	CIRCUIT POLE	CKT NO
1	1	20	(E)COMPUTER LAB	0			0			(E)COMPUTER LAB	20	1	2
3	1	20	(E)DISTANCE LEARNING LAB		0			0		(E)DISTANCE LEARNING LAB	20	1	4
5	1	20	**LIGHTING, RMS. 103, 105**			1074.			620	**LIGHTING, MUSIC RMS. 100**	20	1	6
7	1	20	(E)MEDIA CENTER WORK ROOM	0			590			**LIGHTING, CORRIDOR D1,D2,E**	20	1	8
9	1	20	**LIGHTING, SCENE SHOP**		924			363		**LIGHTING, CORRIDOR C & C1**	20	1	10
11	1	20	**LIGHTING, CORR. A1,109 LOBBY 108, RMS. 104,109,115**			1139			0	(E)MEDIA CENTER	20	1	12
13	1	20	(E)MEDIA CENTER	0			0			(E)MEDIA CENTER	20	1	14
15	1	20	(E)MEDIA CENTER		0			0		(E)MEDIA CENTER	20	1	16
17	1	20	(E)MEDIA CENTER			0			0	(E)MEDIA CENTER	20	1	18
19	1	20	(E)MEDIA CENTER	0			578			**LIGHTING, UNIVERSITY EVENTS SUITE**	20	1	20
21	1	20	**LIGHTING, PROCUREMENT SUITE 110**		619			661		**LIGHTING, CONFERENCE 111,113**	20	1	22
23	1	20	SPARE						0	SPARE	20	1	24
25	1	20	(E)GIRLS LOCKER ROOM	0			224			**LIGHTING, STORAGE 100C**	20	1	26
27	1	20	SPARE		0			64		**LIGHTING, ELEVATOR MACHINE ROOM**	20	1	28
29	1	20	(E)KITCHEN AREA			0			720	**RECEPTACLES, CONFERENCE 111**	**20**	**1**	30
31	**1**	**20**	**RECEPTACLES, CONFERENCE 113**	720			900			**RECEPTACLES, CONFERENCE 111**	**20**	**1**	32
33	**1**	**20**	**RECEPTACLES, CONFERENCE 113**		900			1080		**FLOOR BOX RECEPTACLES, CONFERENCE 111**	**20**	**1**	34
35	**1**	**20**	**FLOOR BOX RECEPTACLES, CONFERENCE 113**			1080			1440	**FLOOR BOX RECEPTACLES, TRAINING RM 103**	**20**	**1**	36
37	**1**	**20**	**RECEPTACLES, TRAINING RM 103**	720			540			**RECEPTACLES, TRAINING RM 103**	**20**	**1**	38
39	**1**	**20**	**RECEPTACLES, TRAINING RM 103**		540			540		**RECEPTACLES, TRAINING RM 103**	**20**	**1**	40
41	1	-	SPACE			0			0	SPACE	-	1	42
				1440	2983	3293	2831	2708	2780				

PHASE A: 4.27 kVA
PHASE B: 5.69 kVA
PHASE C: 6.07 kVA
TOTAL: 16.03 kVA

NOTES:

1. REFER TO DRAWINGS E-001 & E-002 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. ALL WORK SHOWN IS TO BE NEW, UNLESS OTHERWISE NOTED.
3. CIRCUIT DESCRIPTIONS THAT ARE IN BOLD TEXT ARE NEW CIRCUITS.
4. CIRCUIT DESCRIPTIONS THAT ARE GREY/SHADED REPRESENT NEW CIRCUIT BREAKER TO BE FURNISHED AND INSTALLED IN EXISTING PANELS.

LOCATION: SECOND FLOOR ELECTRIC RM. 215D

PANEL SCHEDULE FOR (E)PANEL: "LP2"
120/208V, 3PH, 4W, 250A BUS,
250A MLO
SIEMENS TYPE P1

SURFACE MOUNTED

CKT NO	CIRCUIT POLE	AMP	REMARKS	A	B	C	A	B	C	REMARKS	AMP	CIRCUIT POLE	CKT NO
1	**1**	**20**	**LIGHTING, TR RMS. 207, 213 & CORRIDORS A2, B2, 215**	1031			784			**LIGHTING, RMS. 205, 207,209, 215**	**20**	**1**	2
3	**1**	**20**	**LIGHTING, RMS. 211, 213, 216**		661			616		**LIGHTING, RMS. 217, 219**	**20**	**1**	4
5	**1**	**20**	**LIGHTING, RMS. 206, 208**			413			661	**LIGHTING, RMS. 210, 212, 214**	**20**	**1**	6
7	1	20	SPARE	0			0			SPARE	20	1	8
9	1	20	SPARE		0			0		SPARE	20	1	10
11	1	20	SPARE			0			0	SPARE	20	1	12
13	1	20	SPARE	0			0			SPARE	20	1	14
15	1	20	SPARE		0			0		SPARE	20	1	16
17	1	20	SPARE			0			0	SPARE	20	1	18
19	1	20	SPARE	0			0			(E)GYM	20	1	20
21	1	20	SPARE		0			0		(E)GYM	20	1	22
23	1	-	SPACE			0			0	SPACE	-	1	24
25	1	-	SPACE	0			0			SPACE	-	1	26
27	1	-	SPACE		0			0		SPACE	-	1	28
29	1	-	SPACE			0			0	SPACE	-	1	30
31	1	-	SPACE	0			0			SPACE	-	1	32
33	1	-	SPACE		0			0		SPACE	-	1	34
35	1	-	SPACE			0			0	SPACE	-	1	36
37	1	-	SPACE	0			0						38
39	1	-	SPACE		0			0		(E)LP3	100	3	40
41	1	-	SPACE			0			0				42
				1031	661	413	784	616	661				

PHASE A: 1.81 kVA
PHASE B: 1.28 kVA
PHASE C: 1.07 kVA
TOTAL: 4.17 kVA

LOCATION: THIRD FLOOR ELECTRIC RM. 303C

PANEL SCHEDULE FOR (E)PANEL: "LP3"
120/208V, 3PH, 4W, 250A BUS,
250A MLO
SIEMENS TYPE P1

RECESSED MOUNTED

CKT NO	CIRCUIT POLE	AMP	REMARKS	A	B	C	A	B	C	REMARKS	AMP	CIRCUIT POLE	CKT NO
1	1	20	**LIGHTING, TR'S. 300, 307, CORRIDORS A3 & 303**	812			496			**LIGHTING, RMS. 301, 303**	20	1	2
3	1	20	**LIGHTING, RMS. 305**		537			743		**LIGHTING, RMS. 302, 304**	20	1	4
5	1	20	**LIGHTING, RMS. 306, 308**			743			0	(E) SPARE	20	1	6
7	1	20	(E) SPARE	0			0			(E) SPARE	20	1	8
9	1	20	(E) SPARE		0			0		(E) SPARE	20	1	10
11	1	20	(E) SPARE			0			0	(E) SPARE	20	1	12
13	1	20	(E) SPARE	0			0			(E) SPARE	20	1	14
15	1	20	(E) SPARE		0			0		(E) SPARE	20	1	16
17	1	20	(E) SPARE			0			0	(E) SPARE	20	1	18
19	1	20	(E) SPARE	0			0			(E) SPARE	20	1	20
21	1	20	(E) SPARE		0			0		(E) SPARE	20	1	22
23	1	-	(E) SPACE			0			0	(E) SPACE	-	1	24
25	1	-	(E) SPACE	0			0			(E) SPACE	-	1	26
27	1	-	(E) SPACE		0			0		(E) SPACE	-	1	28
29	1	-	(E) SPACE			0			0	(E) SPACE	-	1	30
31	1	-	(E) SPACE	0			0			(E) SPACE	-	1	32
33	1	-	(E) SPACE		0			0		(E) SPACE	-	1	34
35	1	-	(E) SPACE			0			0	(E) SPACE	-	1	36
37	1	-	(E) SPACE	0			0			(E) SPACE	-	1	38
39	1	-	(E) SPACE		0			0		(E) SPACE	-	1	40
41	1	-	(E) SPACE			0			0	(E) SPACE	-	1	42
				812	537	743	496	743	0				

PHASE A: 1.31 kVA
PHASE B: 1.28 kVA
PHASE C: 0.74 kVA
TOTAL: 3.33 kVA

LOCATION: BASEMENT BOILER RM. B02

PANEL SCHEDULE FOR (E)PANEL: "LPB"
120/208V, 3PH, 4W, 250A BUS,
250A MLO
SIEMENS TYPE P1

SURFACE MOUNTED

CKT NO	CIRCUIT POLE	AMP	REMARKS	A	B	C	A	B	C	REMARKS	AMP	CIRCUIT POLE	CKT NO
1	**1**	**20**	**(E)ELEVATOR PIT LIGHT**	0			832			**LIGHTING, RMS. B02, B03, B04, B05 & B07**	**20**	**1**	**2**
3	**1**	**20**	**LIGHTING, RMS. B01, B06, B08, B13, B14**		672			0		SPARE	20	1	4
5	**2**	**20**	**SITE LIGHTING**			312			0	SPARE	20	1	6
7				312			1153			**TIMECLOCK AND OUTDOOR NORMAL BLDG LTG**	**20**	**1**	**8**
9	**2**	**20**	**SITE LIGHTING**		156			0		(E)SPARE	20	1	10
11						156			0	(E)SPARE	20	1	12
13	1	20	(E)SPARE	0			0			(E)SPARE	20	1	14
15	1	20	(E)SPARE		0			0		(E)SPARE	20	1	16
17	1	20	(E)SPARE			0			0	SPARE	20	2	18
19	1	20	(E)SPARE	0			0						20
21	1	-	SPACE		0			0		SPACE	-	1	22
23	1	-	SPACE			0			0	SPACE	-	1	24
25	1	-	SPACE	0			0			SPACE	-	1	26
27	1	-	SPACE		0			0		SPACE	-	1	28
29	1	-	SPACE			0			0	SPACE	-	1	30
31	1	-	SPACE	0			0			SPACE	-	1	32
33	1	-	SPACE		0			0		SPACE	-	1	34
35	1	-	SPACE			0			0	SPACE	-	1	36
37	1	-	SPACE	0			0						38
39	1	-	SPACE		0			0		(E)PANEL LP1	100	3	40
41	1	-	SPACE			0			0				42
				312	828	468	1985	0	0				

PHASE A: 2.30 kVA
PHASE B: 0.83 kVA
PHASE C: 0.47 kVA
TOTAL: 3.59 kVA

LOCATION: BASEMENT MASTER RM. B03

PANEL SCHEDULE FOR PANEL: "LPS"
120/208V, 3PH, 4W, 225A BUS,
225A MLO, 65,000A RMS

SURFACE MOUNTED

CKT NO	CIRCUIT POLE	AMP	REMARKS	A	B	C	A	B	C	REMARKS	AMP	CIRCUIT POLE	CKT NO
1	1	15	(REL) CIRCUIT FROM PANEL "LPS (CKT 1)	0			0			(REL) CIRCUIT FROM PANEL "LPS (CKT 2)	15	1	2
3	1	15	(REL) CIRCUIT FROM PANEL "LPS (CKT 3)		0			0		(REL) CIRCUIT FROM PANEL "LPS (CKT 6)	20	1	4
5	1	20	(REL) CIRCUIT FROM PANEL "LPS (CKT 5)			0			0	(REL) CIRCUIT FROM PANEL "LPS (CKT 7)	20	1	6
7	1	20	(REL) CIRCUIT FROM PANEL "LPS (CKT 9)	0			0			(REL) CIRCUIT FROM PANEL "LPS (CKT 11)	20	1	8
9	1	20	(REL) CIRCUIT FROM PANEL "LPS (CKT 13)		0			0		SPARE	20	1	10
11	1	20	SPARE			0			0	SPARE	20	1	12
13	1	20	SPARE	0			0						14
15	1	20	SPARE		0			0		(REL) CIRCUIT FROM PANEL "MCDP" (CKT 1,3,5)	15	3	16
17	1	20	SPARE			0			0				18
19				0			0						20
21	3	20	(REL) CIRCUIT FROM PANEL "MCDP" (CKT 2,4,6)		0			0		(REL) CIRCUIT FROM PANEL "MCDP" (CKT 8,10,12)	30	3	22
23						0			0				24
25				0			0						26
27	3	40	(REL) CIRCUIT FROM PANEL "MCDP" (CKT 14,16,18)		0			0		(REL) CIRCUIT FROM PANEL "MCDP" (CKT 20,22,24)	40	3	28
29						0			0				30
31				0			0						32
33	3	40	(REL) CIRCUIT FROM PANEL "MCDP" (CKT 25,27,29)		0			0		(REL) CIRCUIT FROM PANEL "MCDP" (CKT 32,34,36)	50	3	34
35						0			0				36
37				0			0						38
39	3	50	(REL) CIRCUIT FROM PANEL "MCDP" (CKT 31,33,35)		0			0		(REL) CIRCUIT FROM PANEL "MCDP" (CKT 26,28,30)	60	3	40
41						0			0				42
				0	0	0	0	0	0				

NOTES:
1. NEW PANEL WITH ALL NEW CIRCUIT BREAKERS.
2. CONTRACTOR SHALL CONFIRM EXISTING CIRCUIT BREAKER SIZES IN EXISTING PANELS "LPS" AND "MCDP" TO MATCH AMPERAGE RATING FOR RELOCATED CIRCUITS.

PHASE A: 0.00 kVA
PHASE B: 0.00 kVA
PHASE C: 0.00 kVA
TOTAL: 0.00 kVA

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

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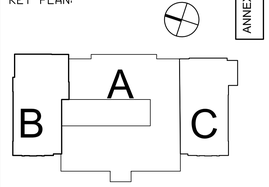

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202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:
PANEL SCHEDULES

Sheet No:
E-605
Sheet 0 of 000

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NOTES:

1. REFER TO DRAWINGS E–001 & E–002 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. ALL WORK SHOWN IS TO BE NEW, UNLESS OTHERWISE NOTED.
3. CIRCUIT DESCRIPTIONS THAT ARE IN BOLD TEXT ARE NEW CIRCUITS.
4. CIRCUIT DESCRIPTIONS THAT ARE GREY/SHADED REPRESENT NEW CIRCUIT BREAKER TO BE FURNISHED AND INSTALLED IN EXISTING PANELS.

LOCATION: FIRST FLOOR ELECTRIC RM. 109C

PANEL SCHEDULE FOR (E)PANEL: "PP1"
120/208V, 3PH, 4W, 225A BUS,
225A MLO
SIEMENS TYPE P1

SURFACE MOUNTED

CKT NO	CIRCUIT POLE	AMP	REMARKS	A	B	C	A	B	C	REMARKS	AMP	CIRCUIT POLE	CKT NO
1	1	20	(E)COMPUTER LAB REC.	0			0			(E)DISTANCE LEARNING LAB REC.	20	1	2
3	1	20	(E)MEDIA CENTER WORK AREA REC.		0			0		(E)MEDIA CENTER WORK ROOM REC.	20	1	4
5	1	20	(E)REC. FACULTY DINING			0			0	(E)PROJECTOR COMPUTER LAB REC.	20	1	6
7	1	20	(E)MEDIA CENTER LOBBY REC.	0			0			(E)MEDIA CENTER RECEPTACLE	20	1	8
9					1080			0		(E)COPIER MEDIA WORK ROOM REC.	20	1	10
11	3	20	**FURNITURE WHIP, SUITE 105**			1200			0	(E) ATC PANEL	20	1	12
13				1080			0			(E)MUSIC ROOM REC.	20	1	14
15	1	20	(E)MEDIA CENTER MAIN DESK REC.		0			0		(E)MEDIA AREA WORK ROOM REC.	20	1	16
17	1	20	(E)MUSIC ROOM&OFFICE REC.			0			1260	**RECEPTACLES, CORR. A1, TR 104, JAN CLO. 104A**	**20**	**20**	18
19	**1**	**20**	**RECEPTACLES, OFFICES 105A, 105B**	1080			1440			**RECEPTACLES, CORR. A1, PASSAGE 109, TR'S 108A, 109A**	**20**	**20**	20
21	**1**	**20**	**RECEPTACLES, OFFICES 105C, 105D**		1080			1080		**RECEPTACLES, CORR. A1, TR 115**	**20**	**20**	22
23	**1**	**20**	**RECEPTACLES, COPIER SUITE 106**			1200			900	**RECEPTACLES AND FURNITURE WHIP, SUITE 105**	**20**	**1**	24
25	2	20	**FURNITURE WHIP, SUITE 106**	1080			1080			**RECEPTACLES, OFFICE 106A,B**	**20**	**1**	26
27					1080			1080		**RECEPTACLES, OFFICE 106C,D**	**20**	**1**	28
29	**1**	**20**	**RECEPTACLE, TOASTER OVEN RM 107**			1000			1080	**RECEPTACLES, OFFICE 106E,F**	**20**	**1**	30
31	**1**	**20**	**RECEPTACLES, COUNTERTOP RM 107**	540			900			**RECEPTACLES, SUITE 106 AND OFFICE 106G**	**20**	**1**	32
33	**1**	**20**	**RECEPTACLE, MICROWAVE RM 107**		1100			1100		**RECEPTACLE, REFRIGERATOR RM 107**	**20**	**1**	34
35	**1**	**20**	**RECEPTACLE, MICROWAVE RM 107**			1100			1100	**RECEPTACLE, REFRIGERATOR RM 107**	**20**	**1**	36
37	**1**	**20**	**RECPETACLES, LOBBY 108**	540			792			**DOOR OPERATOR, LOBBY 108**	**20**	**1**	38
39	**1**	**20**	**JB POWER FOR SMOKE DAMPERS**		400			180		**ELECTRIC RM 109C**	20	1	40
41	1	20	SPARE			0			1080	**RECEPTACLES, CORRIDOR D1,E & TOILET RMS 100D, 100E**	**20**	**1**	42
				4320	4740	4500	4212	3440	5420				

PHASE A: 8.53 kVA
PHASE B: 8.18 kVA
PHASE C: 9.92 kVA
TOTAL: 26.63 kVA

LOCATION: FIRST FLOOR ELECTRIC RM. 117

PANEL SCHEDULE FOR (E)PANEL: "PP1A"
208/120 V, 3PH, 4W, 225A BUS,
225A M.L.O.,
EATON PANEL TYPE PRL1A

SURFACE MOUNTED

CKT NO	CIRCUIT POLE	AMP	REMARKS	A	B	C	A	B	C	REMARKS	AMP	CIRCUIT POLE	CKT NO
1	1	20	(E) RECEPTACLES, ORCHESTRA RM.	0			0			(E) RECEPTACLES, RMS. 103-1 & 101-1	20	1	2
3	1	20	(E) RECEPTACLES, ORCHESTRA RM.		0			0		(E) HAND DRYER, BOYS SHOWER	20	1	4
5	1	30	(E) HAND DRYER, BOYS OFFICE TOILET RM.			0			0	(E) GYM SOUND RACK	20	1	6
7	1	20	(E) SCOREBOARD	0			0			(E) RECEPTACLES, GYM	20	1	8
9	1	20	(E) RECEPTACLES, GIRLS STORAGE & RM. 111-1		0			0		(E) RECEPTACLES, GYM	20	1	10
11	1	30	(E) HAND DRYER, GIRLS OFFICE TOILET RM.			0			0	(E) HAND DRYER, GIRLS SHOWER	20	1	12
13	1	20	(E) BACKBOARD, BOYS GYM	0			720			(E) LOCKER AREA WATER COOLERS	20GFI	1	14
15	1	20	(E) BACKBOARD, BOYS GYM		0			0		(E) BACKBOARD, GIRLS GYM	20	1	16
17	1	20	(E) BACKBOARD, BOYS GYM			0			0	(E) BACKBOARD, GIRLS GYM	20	1	18
19				0			0			(E) BACKBOARD, GIRLS GYM	20	1	20
21	3	20	(E) BLEACHERS, GIRLS GYM		0			0					22
23						0			0	(E) BLEACHERS, BOYS GYM	20	3	24
25	1	30	(E) GYM CURTAIN / MOVIE SCREEN	0			0						26
27					0			3203		**VAV-1, CLASSROOM 120**	**35**	**2**	28
29	3	60	SPARE			0			3203				30
31				0			0			**HWH-1, WATER HEATER, ELECTRIC RM 117**	**15**	**1**	32
33	1	20	(E) WATER HEATERS		0			180		SPARE	20	1	34
35	2	50	(E) UPS-1			0			0	SPARE	20	1	36
37				0			360			**RECEPTACLES, CORRIDOR B1**	**20**	**1**	38
39	**1**	**20**	**RECEPTACLE, ROOF AT HP-4**		180			360		**RECEPTACLES, EXTERIOR**	**20**	**1**	40
41	1	-	(E) SPACE			0			180	**RECEPTACLE, THIS ROOM**	**20**	**1**	42
				0	180	0	1080	3743	3383				

PHASE A: 1.08 KVA
PHASE B: 3.92 KVA
PHASE C: 3.38 KVA
TOTAL: 8.39 KVA

LOCATION: SECOND FLOOR ELECTRIC RM. 215D

PANEL SCHEDULE FOR (E)PANEL: "PP2"
120/208V, 3PH, 4W, 250A BUS,
250A MLO
SIEMENS TYPE P1

SURFACE MOUNTED

CKT NO	CIRCUIT POLE	AMP	REMARKS	A	B	C	A	B	C	REMARKS	AMP	CIRCUIT POLE	CKT NO
1	**1**	**20**	**RECEPTACLES, MENS TR 207B, CORRIDOR**	1260			1080			**RECEPTACLES, CORRIDOR**	**20**	**1**	2
3	2	20	**FURNITURE WHIP, SUITE 206**		360			1260		**FURNITURE WHIP, SUITE 206**	**20**	**1**	4
5						1000			1080	**RECEPTACLES, OFFICES 206A, 206B**	**20**	**1**	6
7	**1**	**20**	**FURNITURE WHIP, SUITE 207**	1080			900			**RECEPTACLES, SUITE 207, OFFICE 207A**	**20**	**1**	8
9	**1**	**20**	**FURNITURE WHIP, SUITE 207**		1080			1000		**RECEPTACLE, PRINTER SUITE 207**	**20**	**1**	10
11	**1**	**20**	**RECEPTACLES, CONFERENCE 209**			540			1260	**RECEPTACLES, SUITE 209, OFFICES 208A, 208B**	**20**	**1**	12
13	**1**	**20**	**RECEPTACLES & FLOOR BOX RECPTS, CONFERENCE 209**	1260			0			(E) RECEPTACLES, RM. 200	20	1	14
15	1	20	(E) RECEPTACLES, CORRIDOR D2, RM. 202		0			0		(E) RECEPTACLES, RM. 200	20	1	16
17	1	20	(E) RECEPTACLES, RM. 201			0			1000				18
19	1	20	(E) RECEPTACLES, RM. 201	0			1080			**FURNITURE WHIP, SUITE 208**	**20**	**3**	20
21	**1**	**20**	**RECEPTACLES, COUNTERTOP RM 209A**		360			1080					22
23	**1**	**20**	**RECEPTACLE, TOASTER OVEN RM 209A**			1000			1100	**RECEPTACLE, REFIRGERATOR RM 209A**	**20**	**1**	24
25	1	20	(E)RECEPTACLES, RMS. 201, 201-1	0			1100			**RECEPTACLE, REFRIGERATOR RM 209A**	**20**	**1**	26
27	**1**	**20**	**RECEPTACLE, MICROWAVE RM 209A**		1100			1200		**RECEPTACLE, COPIER RM 209A**	**20**	**1**	28
29	**1**	**20**	**RECEPTACLE, MICROWAVE RM 209A**			1100			1200	**RECEPTACLE, COPIER RM 209A**	**20**	**1**	30
31	1	20	(E) HAND DRYER GIRLS TR	0			1000			**RECEPTACLE, TOASTER OVEN RM 209A**	**20**	**1**	32
33	1	20	(E) HAND DRYER BOYS TR		0			1100		**RECEPTACLE, MICROWAVE RM 209A**	**20**	**1**	34
35	**1**	**20**	**PHONE BOOTH AND PASSAGE 215**			540			1100	**RECEPTACLE, MICROWAVE RM 209A**	**20**	**1**	36
37				5960			10440						38
39	3	100	**SUBFEED TO PANEL "PP2A"**		7220			11740		(E)SUBFEED TO PANEL "PP3"	100	3	40
41						5860			9480				42
				9560	10120	10040	15600	17380	16220				

PHASE A: 25.16 kVA
PHASE B: 27.50 kVA
PHASE C: 26.26 kVA
TOTAL: 78.92 kVA

LOCATION: SECOND FLOOR ELECTRIC RM. 215D

PANEL SCHEDULE FOR PANEL: "PP2A"
120/208V, 3PH, 4W, 100A BUS,
100A MLO, 22,000A RMS

SURFACE MOUNTED

CKT NO	CIRCUIT POLE	AMP	REMARKS	A	B	C	A	B	C	REMARKS	AMP	CIRCUIT POLE	CKT NO
1	2	20	FURNITURE WHIP, SUITE 210	540			1080			FURNITURE WHIP, SUITE 210	20	1	2
3					1000			900		RECEPTACLES, SUITE 210, OFFICE 210A, 210B	20	1	4
5	3	20	FURNITURE WHIP, SUITE 212			1000			1260	RECEPTACLES, SUITE 212, OFFICES 212A, 212B	20	1	6
7				1080			540			RECEPTACLES, OFFICE 211A	20	1	8
9					1080			1080		FURNITURE WHIP, SUITE 211	20	1	10
11	1	20	RECEPTACLES, OFFICE 214A			540			1080	FURNITURE WHIP, SUITE 211	20	1	12
13	1	20	FURNITURE WHIP, SUITE 214	1080			720			FURNITURE WHIP, SUITE 211	20	1	14
15	1	20	FURNITURE WHIP, SUITE 214		1080			1000		RECEPTACLE, PRINTER SUITE 211	20	1	16
17	1	20	FURNITURE WHIP, SUITE 214			720			540	RECEPTACLES, OFFICE 213A	20	1	18
19	1	20	RECEPTACLE, PRINTER SUITE 214	1000			1080			FURNITURE WHIP, SUITE 213	20	1	20
21	1	20	JB POWER FOR SMOKE DAMPERS		600			1080		FURNITURE WHIP, SUITE 213	20	1	22
23	1	20	SPARE			0			720	FURNITURE WHIP, SUITE 213	20	1	24
25	1	20	SPARE	0			1000			RECEPTACLE, PRINTER SUITE 213	20	1	26
27	1	-	SPACE		0			0		SPACE	-	1	28
29	1	-	SPACE			0			0	SPACE	-	1	30
31	1	-	SPACE	0			0			SPACE	-	1	32
33	1	-	SPACE		0			0		SPACE	-	1	34
35	1	-	SPACE			0			0	SPACE	-	1	36
37	1	-	SPACE	0			0			SPACE	-	1	38
39	1	-	SPACE		0			0		SPACE	-	1	40
41	1	-	SPACE			0			0	SPACE	-	1	42
				3700	3760	2260	4420	4060	3600				

PHASE A: 8.12 kVA
PHASE B: 7.82 kVA
PHASE C: 5.86 kVA
TOTAL: 21.80 kVA

LOCATION: THIRD FLOOR ELECTRIC RM. 303C

PANEL SCHEDULE FOR (E)PANEL: "PP3"
120/208V, 3PH, 4W, 250A BUS,
250A MLO
SIEMENS TYPE P1

SURFACE MOUNTED

CKT NO	CIRCUIT POLE	AMP	REMARKS	A	B	C	A	B	C	REMARKS	AMP	CIRCUIT POLE	CKT NO
1	1	20	**RECEPTACLES, CORRIDOR A3, TR 300, JAN.CL. 300A**	1260			1080			**RECEPTACLES, CORRIDOR A3, TR 307, STAIR 1**	20	1	2
3	1	20	**RECEPTACLE, COPIER SUITE 301**		1200			900		**RECEPTACLES, OFFICES 301A**	20	1	4
5	2	20	**FURNITURE WHIP, DESIGN AND PLANNING SUITE 301**			1080			900	**RECEPTACLES, OFFICES 301B**	20	1	6
7				540			1080			**FURNITURE WHIP, DESIGN AND PLANNING SUITE 301**	20	1	8
9	1	20	**RECEPTACLES, CONFERENCE RM. 301C**		720			1000		**RECEPTACLE, CAFÉ 303B REFRIGERATOR**	20	1	10
11	1	20	**RECEPTACLE, CAFÉ 303B MICROWAVE**			1100			1000	**RECEPTACLE, CAFÉ 303B TOASTER**	20	1	12
13	1	20	**RECEPTACLE, CAFÉ 303B COUNTERTOP**	180			540			**RECEPTACLES, CORRIDOR 303, RMS. 303B-C**	20	1	14
15	1	20	**RECEPTACLES, CORRIDOR 303, RMS. 303B-C**		540			1200		**RECEPTACLE, COPIER SUITE 302**	20	1	16
17	1	20	**RECEPTACLES, OFFICE 302A**			900			900	**RECEPTACLES, OFFICE 302B**	20	1	18
19	1	20	**RECEPTACLES, OFFICE 302C**	720			1080			**RECEPTACLES, SUITE 302 & FLOORBOX**	20	1	20
21	1	20	**RECEPTACLES, CONFERENCE RM. 304**		540			1080		**FURNITURE WHIP, CONSTRUCTION SUITE 302**	20	2	22
23	1	20	**RECEPTACLES, CONFERENCE RM. 304**			720			1080				24
25	1	20	**RECEPTACLES, CONFERENCE RM. 304**	720			1080			**FLOOR BOX RECEPTACLES, CONFERENCE RM. 304**	20	1	26
27	1	20	**RECEPTACLE, COPIER SUITE 305**		1200			1200		**RECEPTACLE, PLOTTER SUITE 305**	20	1	28
29	1	20	**RECEPTACLES, SUITE 305**			900			1080	**FURNITURE WHIP, SUITE 305**	20	1	30
31	2	20	**FURNITURE WHIP, SUITE 305**	1080			1260			**RECEPTACLES, OFFICES 305A,B**	20	1	32
33					1080			1080		**RECEPTACLES, OFFICES 305C,D**	20	1	34
35	1	20	**RECEPTACLE, COPIER SUITE 306**			1200			540	**FURNITURE WHIP, SUITE 306**	20	1	36
37	1	20	**RECEPTACLES, SUITE 306**	360			1260			**RECEPTACLES, OFFICES 306A,B**	20	1	38
39	1	20	**RECEPTACLES, OFFICES 306C,D**		1080			1080		**RECEPTACLES, OFFICES 306E**	20	1	40
41	1	20	**RECEPTACLES, OFFICES 306F**			540			400	**JB POWER FOR SMOKE DAMPERS**	20	1	42
				4860	6360	6440	7380	7540	5900				

PHASE A: 12.24 kVA
PHASE B: 13.90 kVA
PHASE C: 12.34 kVA
TOTAL: 38.48 kVA

LOCATION: BASEMENT BOILER RM. B02

PANEL SCHEDULE FOR (E)PANEL: "PPB"
120/208V, 3PH, 4W, 250A BUS,
250A MLO
SIEMENS TYPE P1

SURFACE MOUNTED

CKT NO	CIRCUIT POLE	AMP	REMARKS	A	B	C	A	B	C	REMARKS	AMP	CIRCUIT POLE	CKT NO
1	1	20	(E)ELEVATOR PIT REC.	180			720			(E)ELEVATOR PIT SUMP PUMP	20	1	2
3	1	20	**RECEPTACLE, CUSTODIAL SHOP B05**		180			0		SPARE	20	1	4
5	1	20	**RECEPTACLE, CUSTODIAL SHOP B05**			180			1080	**RECEPTACLES, STORAGE B06 & UNIVERSITY EVENTS B07**	20	1	6
7	1	20	**RECEPTACLE, CUSTODIAL SHOP B05**	180			900			**RECEPTACLES, PASSAGE B01, FINANCE STOR. B08**	20	1	8
9	1	20	**RECEPTACLE, CUSTODIAL SHOP B05**		180			720		**RECEPTACLE, BOILER ROOM B02**	20	1	10
11	1	20	**RECEPTACLE, CUSTODIAL SHOP B05**			180			540	**RECEPTACLE, BOILER ROOM B02**	20	1	12
13	1	20	**RECEPTACLE, CUSTODIAL SHOP B05**	180			360			**RECEPTACLE, MASTER ROOM B03**	20	1	14
15	1	20	**RECEPTACLE, STORAGE B17**		720			0		SPARE	20	1	16
17	1	20	SPARE			0			0	SPARE	20	1	18
19	1	20	SPARE	0			0			SPACE	-	1	20
21	2	30	**UH-1, UNIT HEATER - STORAGE B17**		3120			1872		**UH-2, UNIT HEATER - STORAGE B13**	**20**	**2**	22
23						3120			1872				24
25	2	35	**UH-3, UNIT HEATER - BOILER RM B02**	3640			3640			**UH-4, UNIT HEATER - BOILER RM B02**	**35**	**2**	26
27					3640			3640					28
29	2	20	**UH-5, UNIT HEATER - CUSTODIAL SHOP B05**			1872			164	**CC-B1 THRU CC-B6 & IHRU-B1, B2**	**15**	**2**	30
31				1872			164						32
33	1	-	SPACE		0			0		SPACE	-	1	34
35	1	-	SPACE			0			0	SPACE	-	1	36
37	1	-	SPACE	0			8532			SPACE	-	1	38
39	1	-	SPACE		0			7780		(E) PANEL "PP1"	100	3	40
41	1	-	SPACE			0			9200				42
				6052	7840	5352	14316	14012	12856				

PHASE A: 20.37 kVA
PHASE B: 21.85 kVA
PHASE C: 18.21 kVA
TOTAL: 60.43 kVA

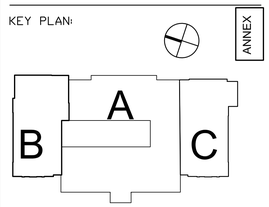
M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers

636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



No.	Date	Description
	12/08/25	OUT TO BID
	12/03/25	DCA Submission

Revisions / Issues

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Richard D. Alterio , AIA
NJ RA AI 15023, NY RA 027416, PA RA 405474

DO NOT SCALE, DRAWING MAY BE PRINTED AT REDUCED SCALE, CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client:

Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:

Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:

Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:

PANEL SCHEDULES

Sheet No:

E-606
Sheet 0 of 000

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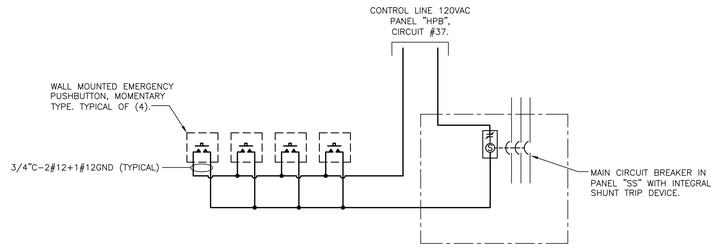
12/4/2025 10:56:55 AM

LOCATION: SCENE SHOP			PANEL SCHEDULE FOR NEW PANEL: "SS" 120/208V, 3PH, 4W, 225A BUS, 200A MAIN CIRCUIT BREAKER WITH SHUNT TRIP FEATURE 22,000A RMS							SURFACE MOUNTED		
CKT NO	CIRCUIT POLE	AMP	REMARKS	A	B	C	A	B	C	REMARKS	AMP	CIRCUIT POLE	CKT NO
1	1	20	RECEPTACLE, WALL	180			360			QUAD RECEPTACLE, SCENE SHOP	20	1	2
3	1	20	RECEPTACLE, AIR CLEANERS		1200			0		SPARE	20	1	4
5	1	20	RECEPTACLE, AIR COMPRESSOR			1500			360	QUAD RECEPTACLE, MITER SAW BENCH	20	1	6
7	1	20	RECEPTACLE, WORK BENCH	180			1200			RECEPTACLE, MITER SAW	20	1	8
9	1	20	RECEPTACLE, WORK BENCH		180			180		RECEPTACLE, UNDER MITER SAW BENCH	20	1	10
11	1	20	RECEPTACLE, DESK & PRINTER			800			360	QUAD RECEPTACLE, ON COLUMN	20	1	12
13	1	20	RECEPTACLES, WORK BENCH	360			360			QUAD RECEPTACLE, ON COLUMN	20	1	14
15	1	20	RECEPTACLES, WALL		540			360		QUAD RECEPTACLE, ON COLUMN	20	1	16
17	1	20	CORD REEL RECEPTACLE			360			180	RECEPTACLES, WALL	20	1	18
19	1	20	CORD REEL RECEPTACLE	360			180			RECEPTACLES, WALL	20	1	20
21	1	20	CORD REEL RECEPTACLE		360			180		RECEPTACLES, WALL	20	1	22
23	1	20	CORD REEL RECEPTACLE			360			180	RECEPTACLES, WALL	20	1	24
25	1	20	RECEPTACLES, AFU-1 & AFU-2	840			360			QUAD RECEPTACLE, BATTERY/FESTOOLS	20	1	26
27	2	20	208V RECEPTACLE, WALL		1800			0		SPARE	20	1	28
29						1800			0	SPARE	20	1	30
31	3	20	TABLE SAW	1800			0			SPARE	20	1	32
33					1800			0		SPARE	20	1	34
35						1800			0	SPARE	20	1	36
37	3	100	SUB-FEED TO PANEL "CNC"	0			0			SPARE	20	1	38
39					0			0		SPARE	20	1	40
41						0			0	SPARE	20	1	42
				3720	5880	6620	2460	720	1080				
										PHASE A: 6.18 kVA			
			REFER TO DETAIL 1/E-607 FOR SHUT TRIP WIRING							PHASE B: 6.60 kVA			
										PHASE C: 7.70 kVA			
										TOTAL: 20.48 kVA			

NOTES:

1. REFER TO DRAWINGS E-001 & E-002 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. ALL WORK SHOWN IS TO BE NEW, UNLESS OTHERWISE NOTED.
3. CIRCUIT DESCRIPTIONS THAT ARE IN BOLD TEXT ARE NEW CIRCUITS.
4. CIRCUIT DESCRIPTIONS THAT ARE GREY/SHADED REPRESENT NEW CIRCUIT BREAKER TO BE FURNISHED AND INSTALLED IN EXISTING PANELS.



1 ELECTRICAL EMERGENCY SHUT-DOWN SYSTEM WIRING DIAGRAM

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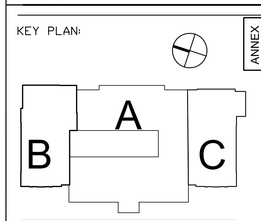
M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



No.	Date	Description
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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:
PANEL SCHEDULES

Sheet No:
E-607
Sheet 0 of 000

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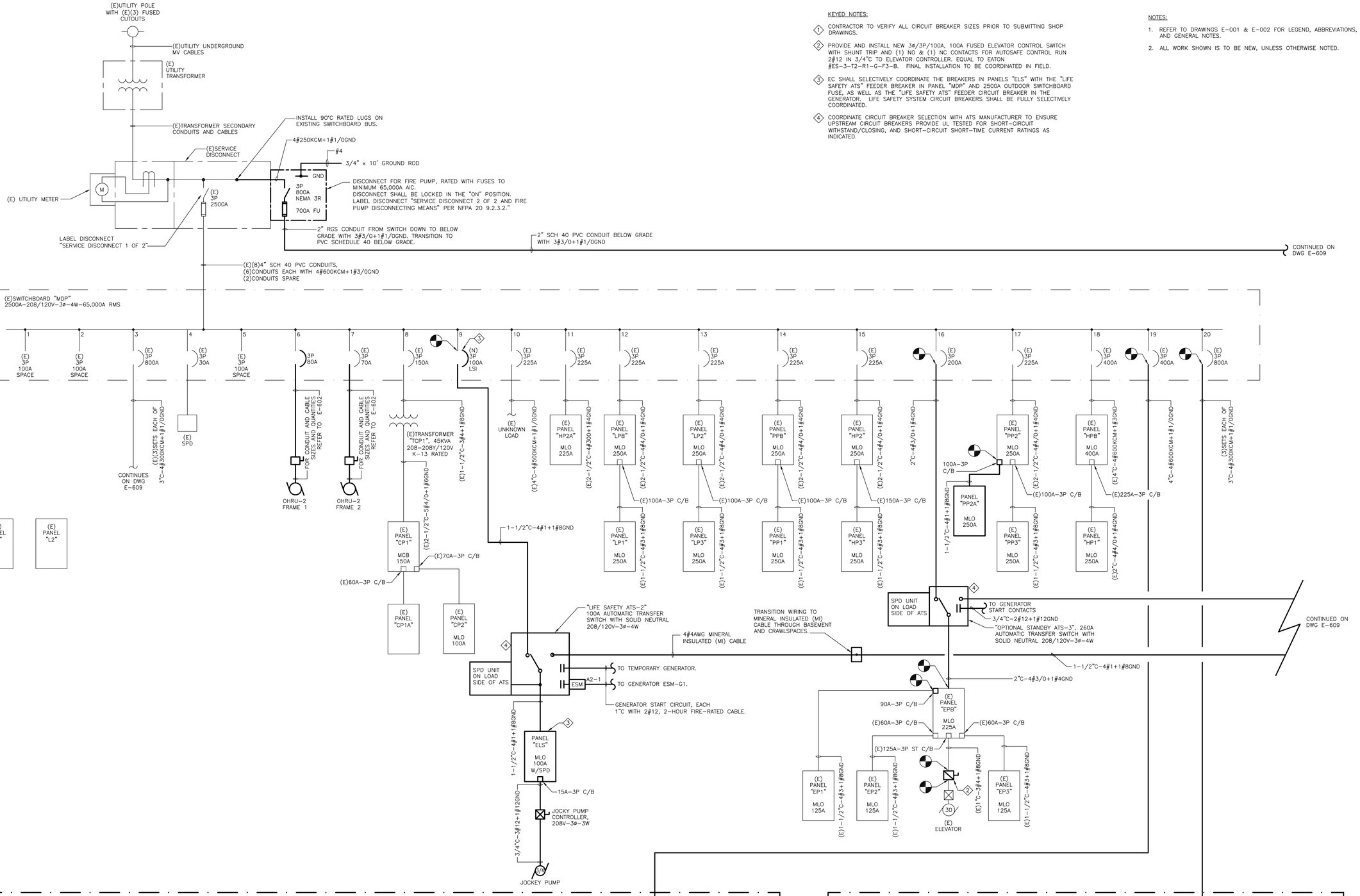

KEYED NOTES:

1. CONTRACTOR TO VERIFY ALL CIRCUIT BREAKER SIZES PRIOR TO SUBMITTING SHOP DRAWINGS.
2. PROVIDE AND INSTALL NEW 3ø/3P/100A, 100A FUSED ELEVATOR CONTROL SWITCH WITH SHUNT TRIP AND (1) NO & (1) NC CONTACTS FOR AUTOSAFE CONTROL RUN 2#12 IN 3/4"C TO ELEVATOR CONTROLLER. EQUAL TO EATON #ES-3-T2-R1-G-F3-B. FINAL INSTALLATION TO BE COORDINATED IN FIELD.
3. EC SHALL SELECTIVELY COORDINATE THE BREAKERS IN PANELS "ELS" WITH THE "LIFE SAFETY ATS" FEEDER BREAKER IN PANEL "MDP" AND 2500A OUTDOOR SWITCHBOARD FUSE, AS WELL AS THE "LIFE SAFETY ATS" FEEDER CIRCUIT BREAKER IN THE GENERATOR. LIFE SAFETY SYSTEM CIRCUIT BREAKERS SHALL BE FULLY SELECTIVELY COORDINATED.
4. COORDINATE CIRCUIT BREAKER SELECTION WITH ATS MANUFACTURER TO ENSURE UPSTREAM CIRCUIT BREAKERS PROVIDE UL TESTED FOR SHORT-CIRCUIT WITHSTAND/CLOSING, AND SHORT-CIRCUIT SHORT-TIME CURRENT RATINGS AS INDICATED.

NOTES:

1. REFER TO DRAWINGS E-001 & E-002 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. ALL WORK SHOWN IS TO BE NEW, UNLESS OTHERWISE NOTED.

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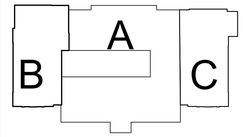

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Drawing Information:
Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:
PARTIAL 1-LINE DIAGRAM

Sheet No:
E-608
Sheet 0 of 000

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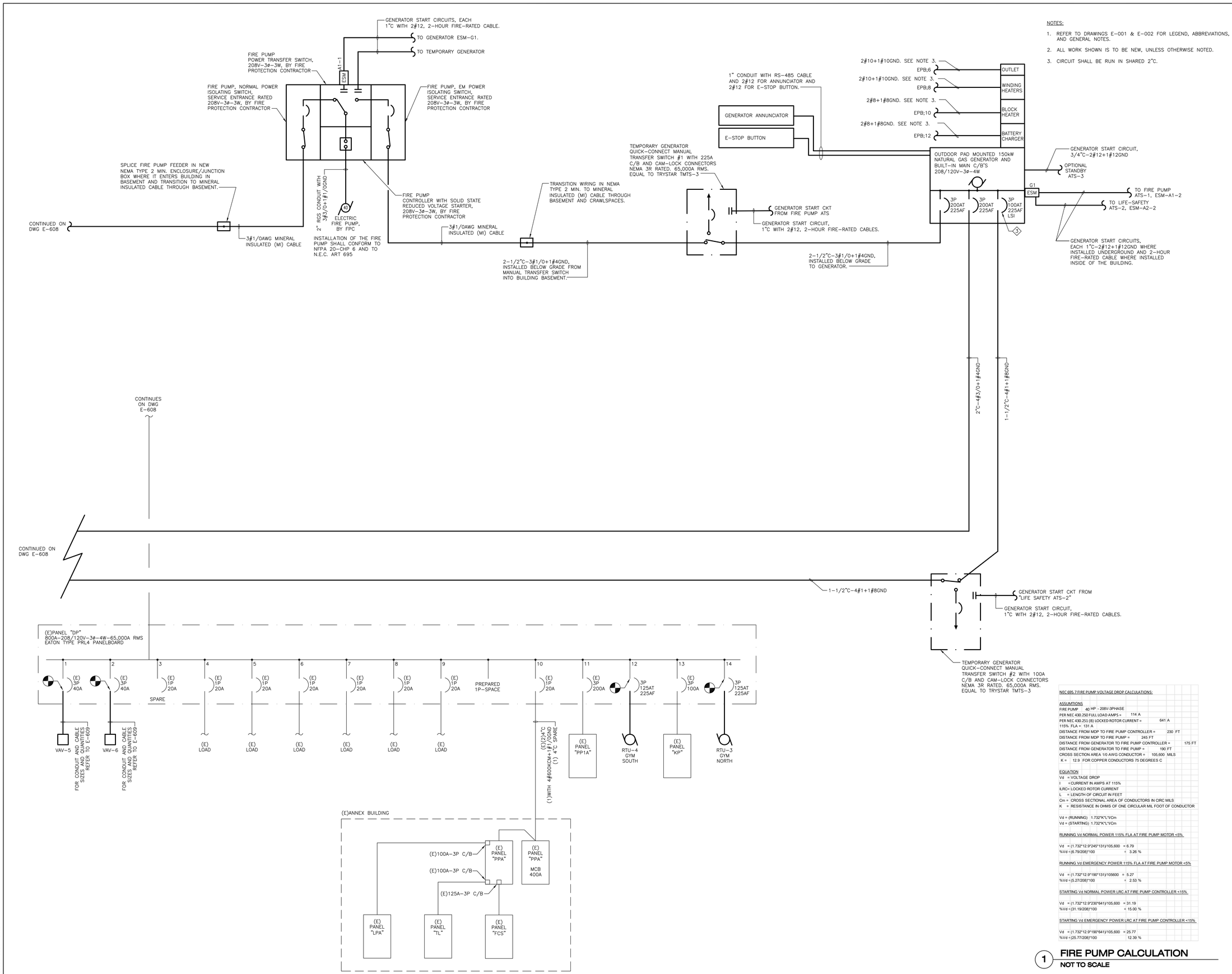

NOTES:

1. REFER TO DRAWINGS E-001 & E-002 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. ALL WORK SHOWN IS TO BE NEW, UNLESS OTHERWISE NOTED.
3. CIRCUIT SHALL BE RUN IN SHARED 2"C.

NEC 695.7 FIRE PUMP VOLTAGE DROP CALCULATIONS:

ASSUMTIONS

FIRE PUMP	40	HP - 208V-3PHASE
PER NEC 430.250 FULL LOAD AMPS =	114	A
PER NEC 430.251 (B) LOCKED ROTOR CURRENT =	641	A
115% FLA =	131	A
DISTANCE FROM MDP TO FIRE PUMP CONTROLLER =	230	FT
DISTANCE FROM MDP TO FIRE PUMP =	245	FT
DISTANCE FROM GENERATOR TO FIRE PUMP CONTROLLER =	175	FT
DISTANCE FROM GENERATOR TO FIRE PUMP =	190	FT
CROSS SECTION AREA 1/0 AWG CONDUCTOR =	105,600	MILS
K =	12.9	FOR COPPER CONDUCTORS 75 DEGREES C

EQUATION

Vd = VOLTAGE DROP
I = CURRENT IN AMPS AT 115%
ILRC= LOCKED ROTOR CURRENT
L = LENGTH OF CIRCUIT IN FEET
Cm = CROSS SECTIONAL AREA OF CONDUCTORS IN CIRC MILS
K = RESISTANCE IN OHMS OF ONE CIRCULAR MIL FOOT OF CONDUCTOR

Vd = (RUNNING) 1.732*K*L*I/Cm
Vd = (STARTING) 1.732*K*L*ILRC/Cm

RUNNING Vd NORMAL POWER 115% FLA AT FIRE PUMP MOTOR <5%

Vd = (1.732*12.9*245*131)/105,600 = 6.79
%Vd =(6.79/208)*100 = 3.26 %

RUNNING Vd EMERGENCY POWER 115% FLA AT FIRE PUMP MOTOR <5%

Vd = (1.732*12.9*190*131)/105600 = 5.27
%Vd =(5.27/208)*100 = 2.53 %

STARTING Vd NORMAL POWER LRC AT FIRE PUMP CONTROLLER <15%

Vd = (1.732*12.9*230*641)/105,600 = 31.19
%Vd =(31.19/208)*100 = 15.00 %

STARTING Vd EMERGENCY POWER LRC AT FIRE PUMP CONTROLLER <15%

Vd = (1.732*12.9*190*641)/105,600 = 25.77
%Vd =(25.77/208)*100 = 12.39 %

1 FIRE PUMP CALCULATION

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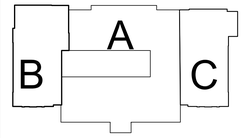

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Checked By: RLD

Sheet Name:
PARTIAL 1-LINE DIAGRAM

Sheet No:
E-609
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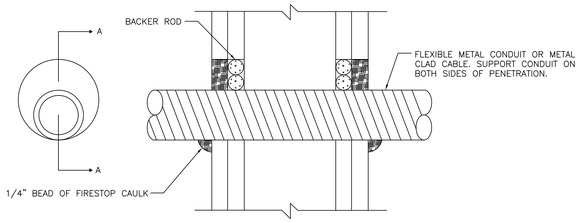

SECTION A–A

MAXIMUM DIAMETER OF CONDUIT/CABLE	MINIMUM FILL (CAULK) MATERIAL THICKNESS
1–1/2"	1/2"

* REFER TO UL FIRE RESISTANCE DIRECTORY FOR FURTHER REQUIREMENTS.

1 MC CABLE THROUGH WALL PENETRATION FIRESTOP SYSTEMS SYSTEM No. W-L-1177 F-RATING 2 HR. & T-RATING 2 HR.

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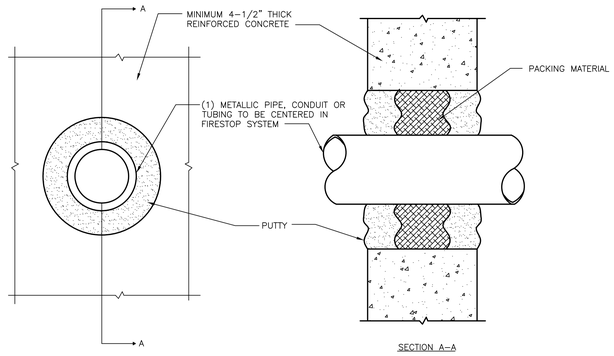

SECTION A–A

MAXIMUM DIAMETER OF STEEL PIPE OR CONDUIT	MINIMUM PACKING MATERIAL THICKNESS	MINIMUM FILL MATERIAL THICKNESS
6"	2–1/2"	1"

* REFER TO UL FIRE RESISTANCE DIRECTORY FOR FURTHER REQUIREMENTS.

3 THROUGH WALL PENETRATION FIRESTOP SYSTEMS SYSTEM No. C-AJ-1003 F-RATING 3 HR.& T-RATING 0 HR.

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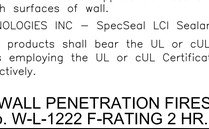
NOTES:

1. REFER TO DRAWINGS E–001 & E–002 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION AND RATING OF FIRE–RATED WALLS.

Classified by
Underwriters Laboratories, Inc.
to ASTM/UL1479 (ASTM E814)

System No. W-L-1222

F Ratings – 1 and 2 Hr (See Item 1)
T Ratings – 1/4, 3/4 and 1 Hr (See Item 2)



1. Wall Assembly – The 1 or 2 hr fire–rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs – Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3–1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.
   B. Gypsum Board* – Thickness, type, number of layers and fasteners as specified in the individual Wall and Partition Design. Max diam of opening is 10–5/8 in. (270 mm).

   The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
2. Through Penetrant – One metallic pipe, conduit or tube to be installed eccentrically or concentrically within the firestop system. Pipe, conduit or tubing may be installed at an angle not greater than 45 degrees from perpendicular. The annular space between the pipe, conduit or tube and the periphery of the opening shall be min 0 in. (0 mm, point contact) to max 2 in. (51 mm). Pipe, conduit or tube to be rigidly supported on both sides of the wall assembly. The following types and sizes of metallic pipes, conduits and tubes may be used:
   A. Steel Pipe – Nom 8 in. (203 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe.
   B. Iron Pipe – Nom 8 in. (203 mm) diam (or smaller) cast or ductile iron pipe.
   C. Conduit – Nom 6 in. (152 mm) diam (or smaller) rigid steel conduit, nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT) or nom 4 in. (102 mm) diam (or smaller) flexible steel conduit.
   D. Copper Pipe – Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.
   E. Copper Tube – Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tube.

2A. Through Penetrating Product* – Flexible Metal Piping – As an alternate to Item 2, one nom 1–1/4 in. (32 mm) diam (or smaller) steel flexible metal pipe to be installed either concentrically or eccentrically within the firestop system. The annular space between the pipe and the periphery of the opening shall be min 0 in. (0 mm, point contact) to max 2 in. (51 mm). Pipe to be rigidly supported on both sides of the wall assembly.

OMEGA FLEX INC

GASTITE, DIV OF TITEFLEX

WARD MFG L L C

3. Fill, Void or Cavity Material* – Sealant – Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall assembly. At point contact location, min 1/4 in. (6 mm) diam bead of fill material applied at metallic pipe/gypsum board interface on both surfaces of wall.

SPECIFIED TECHNOLOGIES INC – SpecSeal LCI Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

2 THROUGH WALL PENETRATION FIRESTOP SYSTEMS SYSTEM No. W-L-1222 F-RATING 2 HR. & T-RATING 1 HR.

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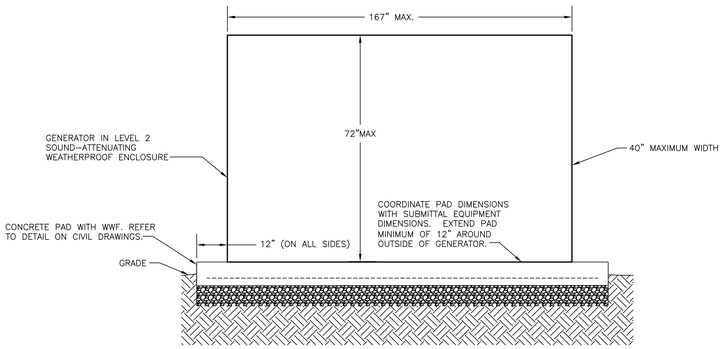

NOTES:

1. SECURE GENERATOR TO PAD WITH (6) 5/8" ϕ GALVANIZED ANCHOR BOLTS WITH 4" MIN. EMBEDMENT. USE HILTI HIT–HY 200 EPOXY ANCHOR SYSTEM.
2. EXTEND GENERATOR PAD 18" ON (2) SIDES WITH GAS CONNECTION TO ENSURE GAS IS STUBBED UP WITHIN CONCRETE PAD.

5 GENERATOR DETAIL

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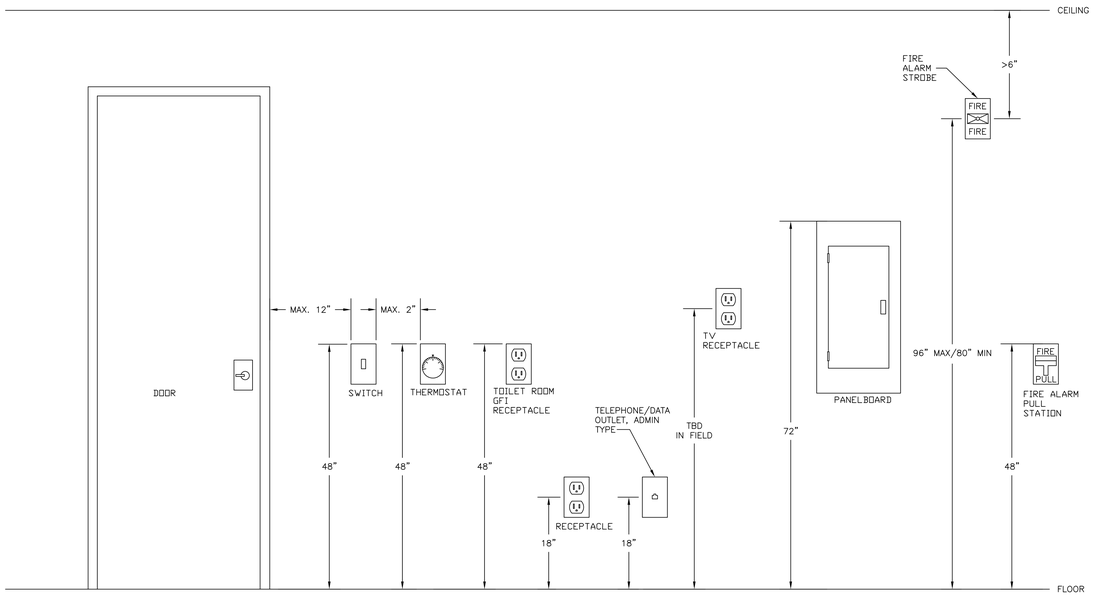

4 TYPICAL MOUNTING HEIGHTS OF ELECTRICAL EQUIPMENT

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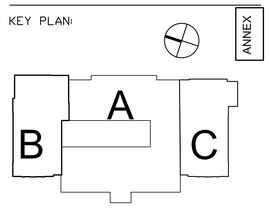
KEY PLAN:



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Drawing Information:
Project No: 25.024
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Drawn By: JDB
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Sheet Name:
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Sheet No:
E-701
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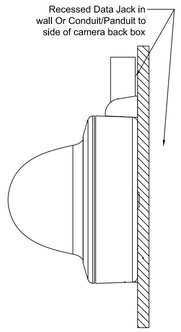
NOTES:

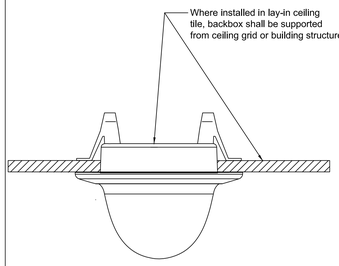
1. REFER TO DRAWINGS E-001 & E-002 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. ALL EQUIPMENT SHOWN IS TO BE NEW, UNLESS OTHERWISE NOTED.
3. ALL INTERIOR WALL MOUNTED CAMERAS SHALL BE 8'-10' AFF.
4. ALL WALL & CORNER MOUNTED EXTERIOR CAMERAS TO BE MOUNTED 12'-14' ABOVE GRADE, UNLESS NOTED OTHERWISE.

A



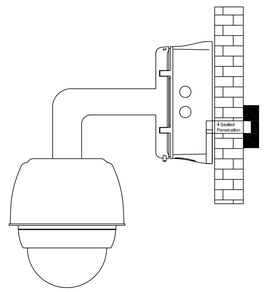
WALL SURFACE CAMERA DETAIL

B



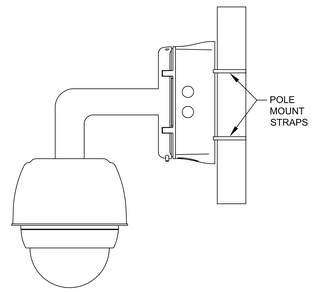
RECESSED CAMERA DETAIL

C



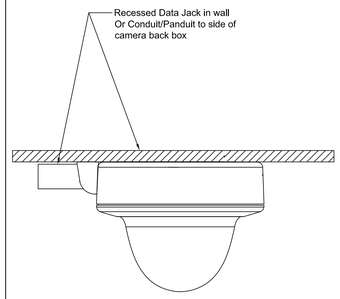
WALL CAMERA DETAIL

D



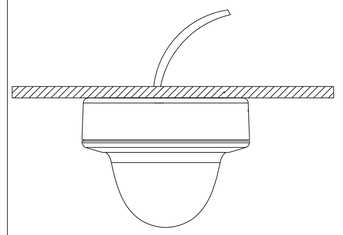
POLE MOUNTED CAMERA DETAIL

E



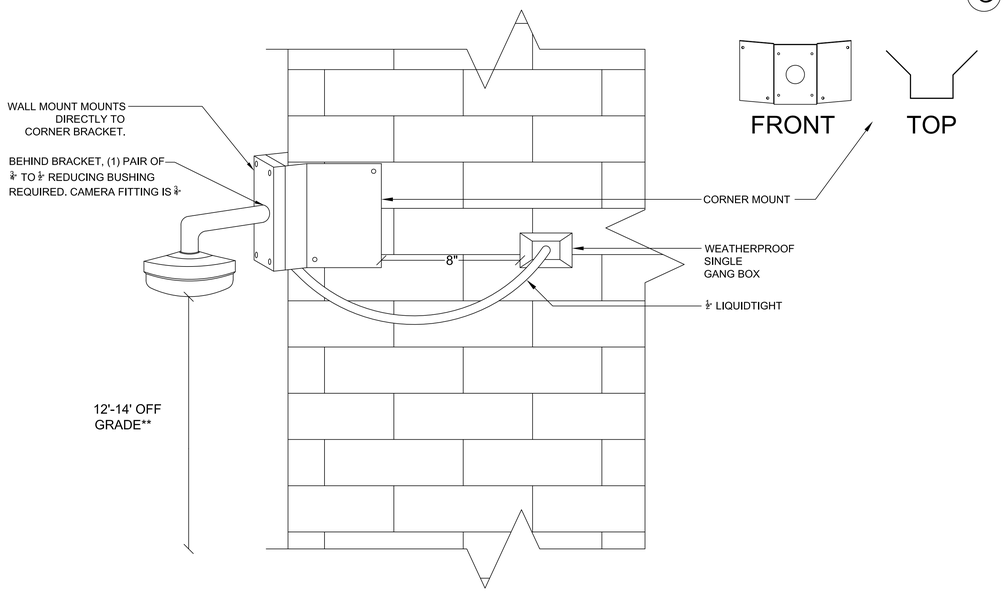
SOFFIT SURFACE CAMERA DETAIL

F



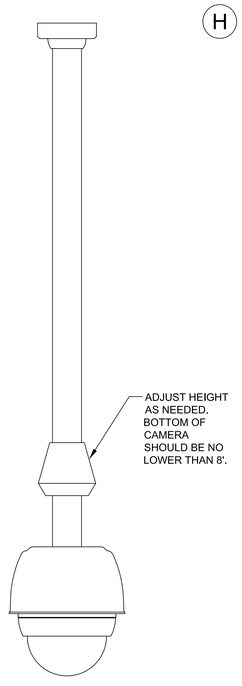
CEILING SURFACE CAMERA DETAIL

G



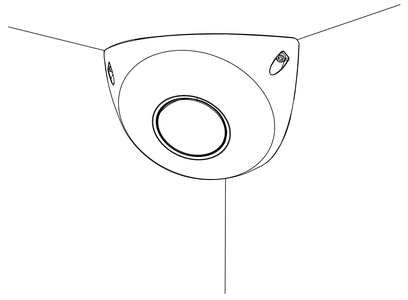
CORNER CAMERA DETAIL

H



TELESCOPIC CORNER CAMERA DETAIL

I



ELEVATOR CAMERA DETAIL

1 CAMERA DETAILS
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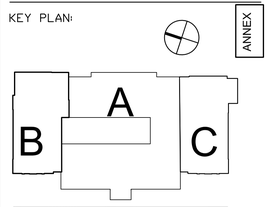

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Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JDB
Checked By: RLD

Sheet Name:
ELECTRICAL DETAILS

Sheet No:
E-702
Sheet 0 of 000

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NOTES:

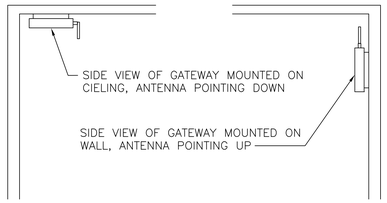
1. REFER TO DRAWINGS E-001 & E-002 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. ALL EQUIPMENT SHOWN IS TO BE NEW, UNLESS OTHERWISE NOTED.

(A)

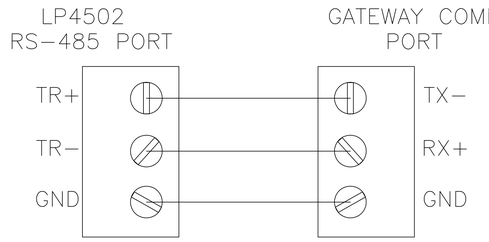
GATEWAY WIRING:(1) 18/4 FOR POWER, ALTERNATE RED/BLACK AND GREEN/WHITE EVERY OTHER DEVICE FOR LOAD BALANCING
(1) SHIELDED RS-485 CABLE FOR COMM

GATEWAYS TO BE TERMINATED IN A DAISY-CHIN FASHION FOR BOTH POWER AND COMM. LINE DIAGRAM ON FLOOR PLANS INTENDED TO ORDER OF GATEWAYS ON A COMM LINE, NOT INTENDED TO SHOW WIRING PATHWAY.

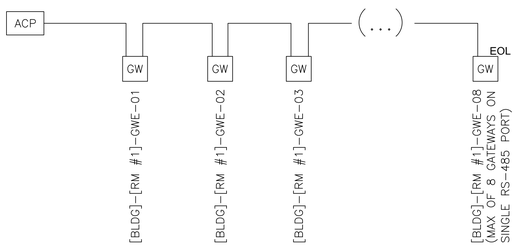
GATEWAYS TO BE MOUNTED FLAT ON WALL BETWEEN 8'-10' OR TO CEILING.



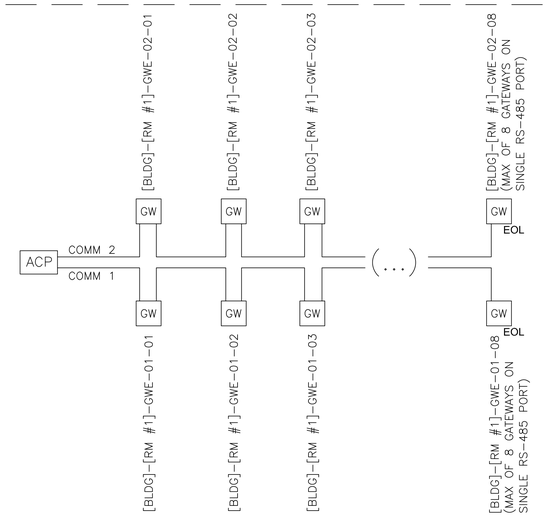
(B)



TYPICAL PANEL WITH TWO SETS OF GATEWAYS



(C) TYPICAL PANEL WITH ONE SET OF GATEWAYS



(D) TYPICAL PANEL WITH TWO SETS OF GATEWAYS

(1) WIRELESS CARD READER WIRING DETAILS
NOT TO SCALE

L:\25284\ELECTRICAL\

M/E/P Engineer:

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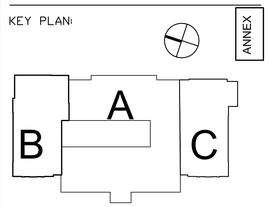

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REQUIREMENT NOTES

PART 1 – GENERAL

1.1 DESCRIPTION:

A. WORK INCLUDED:

1. DESIGN, FABRICATE, INSTALL, AND SECURE REQUIRED APPROVALS FOR A COMPLETE FIRE PROTECTION AUTOMATIC SPRINKLER SYSTEM THROUGHOUT THE BUILDING AND/OR AS SPECIFIED HEREIN, AND AS NEEDED FOR A COMPLETE AND PROPER INSTALLATION IN ACCORDANCE WITH PERTINENT REQUIREMENTS OF THE APPLICABLE CODES AND GOVERNMENTAL AGENCIES HAVING JURISDICTION.

2. PROVIDE CURRENT CODE COMPLIANT HYDRANT WATER FLOW TEST.

1.2 QUALITY ASSURANCE:

A. USE ADEQUATE NUMBERS OF SKILLED WORKMEN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND THE METHODS NEEDED FOR PROPER PERFORMANCE OF THIS SECTION.

B. IN ADDITION, COMPLYING WITH PERTINENT CODES AND REGULATIONS OF GOVERNMENTAL AGENCIES HAVING JURISDICTION COMPLY WITH:

1. RECOMMENDATIONS OF THE FIRE RATING BUREAU HAVING JURISDICTION.

2. PERTINENT RECOMMENDATIONS CONTAINED IN NFPA 13 "STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS."

1.3 SUBMITTALS:

A. SPRINKLER CONTRACTOR SHALL PROVIDE PIPING MAINS WITH SIZES AS SHOWN, OR LARGER (WHEN SHOWN) AND WITH BRANCH PIPING SIZED AS REQUIRED BY SPRINKLER CONTRACTORS HYDRAULIC CALCULATIONS. SPRINKLER CONTRACTOR SHALL PREPARE SHOP DRAWINGS IN ACCORDANCE WITH NFPA 13 IDENTIFIED AS WORKING PLANS INCLUDING HYDRAULIC CALCULATIONS. THIS SUBMITTAL SHALL BE DESIGNED BY AND SIGNED AND SEALED BY A NEW JERSEY LICENSED PROFESSIONAL ENGINEER WHO SHALL BECOME THE "ENGINEER OF RECORD" FOR THE FINAL FIRE SPRINKLER/STANDPIPE SYSTEMS, SO DESIGNED. THE SPRINKLER CONTRACTOR SHALL SUBMIT THE WORKING PLANS AND CALCULATIONS TO THE ENGINEER FOR GENERAL SCOPE REVIEW PRIOR TO SUBMITTING TO THE AUTHORITIES HAVING JURISDICTION. SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMISSION OF SHOP DRAWINGS, SPECIFICATIONS, WATER SUPPLY DATA, HYDRAULIC CALCULATIONS, ETC. FOR THE AUTOMATIC FIRE SPRINKLER SYSTEMS TO BE INSTALLED.

B. PRODUCT DATA:

1. THE FOLLOWING ITEMS ARE TO BE SUBMITED:

a. MATERIALS LIST OF ITEMS PROPOSED UNDER THIS SECTION.
b. STAMPED DESIGN DRAWINGS SHOWING THE COMPLETE OVERHEAD SPRINKLER SYSTEM AND INDICATING CEILING AIR DIFFUSERS, LIGHTING FIXTURES, AND BEAMS.
c. DETAILS AND SECTIONS AS REQUIRED TO CLARIFY THE DESIGN.
d. STAMPED HYDRAULIC CALCULATIONS.

C. RECORD DRAWINGS:

1. INCLUDE A COPY OF THE RECORD DRAWINGS IN EACH COPY OF THE OPERATION AND MAINTENANCE MANUAL DESCRIBED BELOW.

PART 2 – PRODUCTS DESIGN:

2.1 PROVIDE A DESIGN WHICH IS COMPLETE IN ALL REGARDS INCLUDING, BUT NOT NECESSARILY LIMITED TO:

A. CONNECTION TO UTILITY MAIN INCLUDING REQUIRED VALVES, FITTINGS, AND SIMILAR ITEMS.

B. OVERHEAD SPRINKLER SYSTEM. SPRINKLER CONTRACTOR SHALL PROVIDE PIPING MAINS WITH SIZES AS SHOWN, OR LARGER (WHEN SHOWN), WITH BRANCH PIPING SIZED AS REQUIRED BY SPRINKLER CONTRACTORS HYDRAULIC CALCULATIONS.

1. SPRINKLER CONTRACTOR SHALL SUBMIT PRODUCT DATA FOR EACH TYPE SPRINKLER HEAD, VALVE, PIPING SPECIALTY, AND FIRE PROTECTION SPECIALTY.

2. SPRINKLER PROTECTION SHALL BE BASED ON LIGHT HAZARD OCCUPANCY FOR ATTICS, OFFICE SPACES, ETC. AND ORDINARY HAZARD OCCUPANCY FOR STORAGE, STAGES, KITCHENS, AND EQUIPMENT ROOMS.

2.2 ARRANGEMENT:

A. IN AREAS HAVING CEILINGS, CONCEAL ALL PIPES.

B. IN STORAGE AND SERVICE AREAS, PIPES MAY BE EXPOSED BUT HOLD TO THE MINIMUM PRACTICABLE DISTANCE BELOW THE CEILING.

2.3 MATERIALS:

A. SPRINKLER HEADS:

1. ABOVE CEILINGS AND/OR IN AREAS WITHOUT FINISHED CEILINGS, PROVIDE STANDARD UPRIGHT TYPE.

2. SPRINKLERS IN ATC CEILINGS, PROVIDE PENDANT TYPE SPRINKLER HEADS.

B. PROVIDE SUPPORTS, HANGERS, INSERTS, AND ASSOCIATED ITEMS TO PROPERLY SUPPORT SPRINKLER PIPING IN ACCORDANCE WITH PERTINENT PROVISIONS OF NFPA 13.

C. VALVE SEALS, SIGNS, TAGS, AND CHARTS:

1. SEALS: PROVIDE BRASS CROSS–LINKS CHAIN. ALL BRASS PADLOCK AND TWO KEYS FOR EACH MANUALLY OPERATED SHUTOFF VALVE REQUIRED TO BE SEALED IN THE OPEN POSITION.

2. SIGNS: PROVIDE IDENTIFICATION SIGNS OF STANDARD DESIGN, FASTENED SECURELY AT DESIGNATED LOCATIONS IN ACCORDANCE WITH NFPA 13. PROVIDE PERMANENT ENGRAVED STEEL PLACARD CHAINED TO SPRINKLER VALVE WITH HYRDRAULIC "BASIS OF DESIGN."

3. TAGS: PROVIDE 2" DIAMETER BRASS TAGS, STAMPED WITH DESIGNATION NUMBERS, AND ATTACHED WITH 12 GAGE COPPER WIRE TO SPINDLE OF THE CONTROL VALVES.

4. CHARTS:

a. PROVIDE TWO COPIES OF THE APPROVED "AS–BUILT" SPRINKLER SYSTEM DIAGRAM AND VALVE CHART GIVING DESIGNATION NUMBER, FUNCTION, AND LOCATION OF EACH VALVE.

2.4 OTHER MATERIALS:

A. PROVIDE OTHER MATERIALS NOT SPECIFICALLY DESCRIBED BUT REQUIRED FOR A COMPLETE AND PROPER INSTALLATION AS SELECTED BY THE CONTRACTOR SUBJECT TO THE APPROVAL OF THE ARCHITECT.

B. FURNISH EXTRA SPRINKLER HEADS AND SPRINKLER HEAD CABINETS WITH ASSOCIATED WRENCHES PER THE FOLLOWING SCHEDULE:

1. FOR SYSTEMS HAVING LESS THAN 300 SPRINKLERS, NOT FEWER THAN 6 SPRINKLERS.

2. FOR SYSTEMS WITH 300 TO 1000 SPRINKLERS, NOT FEWER THAN 12 SPRINKLERS.

3. FOR SYSTEMS WITH OVER 1000 SPRINKLERS, NOT FEWER THAN 24 SPRINKLERS.

C. PROVIDE INSPECTORS TEST CONNECTIONS AND DRAINS ACCORDING TO NFPA 13.

D. PROVIDE FLOW SWITCHES, PRESSURE GAUGES, AND SUPERVISORY SWITCHES PER NFPA 13.

PART 3 – EXECUTION

3.1 SURFACE CONDITIONS:

A. EXAMINE THE AREAS AND CONDITIONS UNDER WHICH WORK OF THIS SECTION WILL BE PERFORMED. CORRECT CONDITIONS DETRIMENTAL TO TIMELY AND PROPER COMPLETION OF THE WORK. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED.

B. SPRINKLER CONTRACTOR SHALL PERFORM ALL CUTTING AND PATCHING IN ALL AREAS AS REQUIRED UNDER THIS CONTRACT. PATCH ALL WALL, CEILING, AND FLOOR OPENINGS AS NECESSARY.

3.2 INSTALLATION:

A. COORDINATE AS NECESSARY WITH OTHER TRADES TO ASSURE PROPER AND ADEQUATE PROVISION IN THE WORK OF THOSE TRADES FOR INTERFACE WITH THE WORK OF THIS SECTION.

B. INSTALL THE WORK OF THIS SECTION IN STRICT ACCORDANCE WITH THE APPROVED DESIGN DRAWINGS AND THE REQUIREMENTS OF THE FIRE MARSHAL, GOVERNMENTAL AGENCIES, AND FIRE SUBCODE OFFICIAL.

C. PROVIDE HOODS OR SHIELDS ABOVE ALL ELECTRICAL EQUIPMENT IN ELECTRIC ROOMS.

D. THE SPRINKLER CONTRACTOR SHALL MAKE AN ALLOWANCE TO INSTALL A MINIMUM OF 10% ADDITIONAL SPRINKLER HEADS TO BE INSTALLED AS TO PROVIDE ADEQUATE COVERAGE DUE TO ANY MECHANICAL AND/OR ARCHITECTURAL OBSTRUCTIONS, DUCTWORK, PIPING, ETC. INSTALLED DURING CONSTRUCTION WHICH MAY ALTER THE ORIGINAL SPRINKLER DESIGN.

E. SPRINKLER CONTRACTOR SHALL DESIGN SPRINKLER PIPING TO INCLUDE A 20% MARGIN OF SAFETY FOR BOTH AVAILABLE WATER FLOW AND PRESSURE.

F. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF FIREWALLS AND WALLS WHICH REQUIRE SEALING. THE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING ALL PENETRATIONS WITH THROUGH PENETRATION FIRE STOPPING. PROVIDE CODE APPROVED FIRE STOP SYSTEMS AT ALL OPENINGS. PENETRATION FIRESTOPPING INSTALLATION MUST MEET REQUIRED ASTM E814 AND UL1479 TESTED ASSEMBLIES, THAT PROVIDE A FIRE RATING EQUAL TO THE CONSTRUCTION BEING PENETRATED.

3.3 TESTING AND ACCEPTANCE:

A. UPON COMPLETION OF THE INSTALLATION, PROVIDE NECESSARY PERSONEL AND EQUIPMENT AND TEST AND RETEST THE COMPLETE SYSTEM, MAKING ADJUSTMENTS AS REQUIRED, AND SECURE ALL NECESSARY APPROVALS.

B. WHEN THE SYSTEM HAS BEEN COMPLETELY APPROVED, SECURE A LETTER OF FINAL ACCEPTANCE FROM THE FIRE SUBCODE OFFICIAL, AND FORWARD TWO COPIES OF THE LETTER TO THE ARCHITECT.

C. SPRINKLER CONTRACTOR SHALL FLUSH, TEST, AND INSPECT SPRINKLER PIPING SYSTEM ACCORDING TO NFPA 13.

D. SPRINKLER CONTRACTOR SHALL PROVIDE ALL REQUIRED TESTING OF WATER SUPPLIES FOR POTENTIAL (MIC) MICROBIOLOGICALLY INFLUENCED CORROSION PER NFPA 13 (WATER SUPPLY TREATMENT).

PART 4 – HYDRANT FLOW TEST DATA:

4.1 PRIOR TO PERFORMING SPRINKLER HYDRAULIC CALCULATIONS, THE SPRINKLER CONTRACTOR SHALL VERIFY WITH THE LOCAL UTILITY COMPANY ANY MINIMUM FLOW/PRESSURE RESTRICTIONS DUE TO SEASONAL WATER USAGE OR FUTURE BUILDING DEVELOPMENT. FIRE HYDRANT FLOW TEST SHOWN ON DRAWINGS IS PROVIDED FOR THE SOLE PURPOSE OF DETERMINING WHETHER PROJECT REQUIRES A FIRE PUMP. SPRINKLER CONTRACTOR SHALL PROVIDE THEIR OWN FLOW TEST AND COORDINATE INFORMATION WITH LOCAL WATER COMPANY PRIOR TO PERFORMING SPRINKLER HYDRAULIC CALCULATIONS.

GENERAL NOTES

1. THE FOLLOWING NOTES APPLY TO ALL FIRE PROTECTION DRAWINGS.
2. ALL WORK SHALL BE IN ACCORDANCE WITH NFPA 13–2019 AND ALL OTHER APPLICABLE CODES AND STANDARDS.
3. ALL DRAWINGS ARE DIAGRAMMATIC. FIRE PROTECTION CONTRACTOR SHALL CAREFULLY EXAMINE EXISTING CONDITIONS PRIOR TO STARTING WORK.
5. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS, SIZES, CLEARANCES AND LOCATIONS PRIOR TO THE START OF CONSTRUCTION. WHEN CONFLICTS ARISE, MAKE ANY NECESSARY CHANGES TO ROUTING OF SPRINKLER PIPING AT NO ADDITIONAL COST.
6. CONTRACTOR IS RESPONSIBLE FOR PROVIDING COORDINATION DRAWINGS SHOWING ALL TRADES. NO EQUIPMENT, PIPING, DUCTWORK, ETC. IS TO BE INSTALLED WITHOUT APPROVAL BY THE ENGINEER.
7. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
8. FIRE PROTECTION CONTRACTOR SHALL PROVIDE FIREPROOF PIPE SLEEVES AT ALL NEW PIPING PENETRATIONS THRU FIRE RATED WALLS AND FLOORS.
9. INDICATED SPRINKLER HEAD AND PIPING ARE DIAGRAMMATIC. CONTRACTOR SHALL DETERMINE ALL REQUIRED LOCATIONS AND BRANCH/MAIN DIRECTION CHANGES BEFORE FABRICATION AND INSTALLATION TO AVOID INTERFERENCE WITH OTHER TRADES AND EXISTING STRUCTURES..
10. UNLESS OTHERWISE NOTED, ALL SPRINKLER PIPING IS OVERHEAD, TIGHT TO UNDERSIDE OF SLAB/STEEL.

FIRE WATCH AND SCHEDULING REQUIREMENTS

1. PROJECT SCHEDULING MUST BE COORDINATED WITH THE LOCAL AUTHORITIES HAVING JURISDICTION 2 WEEKS BEFORE PROJECT IS TO START.
2. CONTRACTOR IS TO SUBMIT CONSTRUCTION SCHEDULE AND TIMES TO BOTH ENGINEER/ARCHITECT AND LOCAL AUTHORITIES HAVING JURISDICTION FOR REVIEW AND APPROVAL.
3. A FIRE WATCH WILL BE REQUIRED DURING SYSTEM DOWNTIME. CONTRACTOR IS RESPONSIBLE FOR DEACTIVATING SYSTEM AND ACTIVATING SYSTEM ONCE PROJECT IS COMPLETE AND APPROVED.
4. FIRE WATCH REQUIREMENTS ARE AS OUTLINED BY THE LOCAL AUTHORITIES HAVING JURISDICTION. THE PROCEDURES, AS OUTLINED BY THE LOCAL AUTHORITIES HAVING JURISDICTION, MUST BE FOLLOWED EXACTLY.
5. CONTRACTOR IS RESPONSIBLE FOR FIRE ALARM SYSTEM DEACTIVATION AND ACTIVATION ASSOCIATED WITH THE SPRINKLER SYSTEM TAMPER AND FLOW SWITCHES.
6. MAXIMUM SYSTEM DOWN TIME IS 8HRS (FROM 8AM TO 4PM ON A WEEKDAY). CONTRACT REQUIREMENTS INCLUDE FULL COORDINATION WITH THE OWNER AND THE LOCAL AUTHORITIES HAVING JURISDICTION.

GENERAL DEMOLITION NOTES

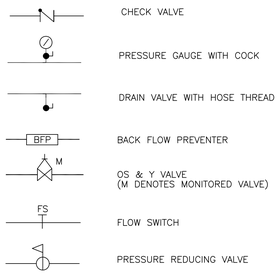
1. ALL WORK UNDER THIS SECTION SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
2. DEMOLITION/RELOCATIONS: EACH TRADE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND RELOCATIONS OF SERVICES, EQUIPMENT AND MATERIAL RELATING TO THEIR RESPECTIVE TRADE.
3. PRIOR TO DEMOLITION CONTRACTOR SHALL REVIEW WITH OWNER ALL MATERIALS TO BE REMOVED. SHOULD THE OWNER OPT TO KEEP ANY MATERIALS, THE CONTRACTOR SHALL REMOVE AND DELIVER THE PARTS TO THE OWNER ON THE SITE WHERE SO DIRECTED. OTHERWISE, ALL DEMOLISHED OR REMOVED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR, SHALL BE REMOVED FROM THE SITE, AND BE DISPOSED OF IN A LEGAL MANNER.
4. DEMOLITION SHALL INCLUDE REMOVAL OF ALL PARTS AND PIECES IN THEIR ENTIRETY BACK TO THE POINTS INDICATED OR IF NOT INDICATED BACK TO THEIR POINT OF SOURCE. WHERE CONDITIONS PROHIBIT TOTAL REMOVAL OF THE WORK, THE REMAINING PORTION SHALL BE CUT FLUSH WITH THE SURROUNDING SURFACE SHALL BE REFINISHED IN AN APPROVED MANNER.
5. MAINTAIN EXISTING UTILITIES INDICATED OR WHERE REQUIRED TO REMAIN, KEEP IN SERVICE, AND PROTECT AGAINST DAMAGE DURING DEMOLITION OPERATIONS. DO NOT INTERRUPT EXISTING UTILITIES SERVING OCCUPIED OR USED FACILITIES, EXCEPT WHEN SCHEDULED WITH THE OWNER.
6. DO NOT REMOVE EXISTING STRUCTURAL WORK. DO NOT REMOVE OPERATIONAL ELEMENTS AND SAFETY–RELATED COMPONENTS IN A MANNER RESULTING IN A REDUCTION OF CAPACITIES TO PERFORM IN THE MANNER INTENDED OR RESULTING IN DECREASED OPERATIONAL LIFE, INCREASED MAINTENANCE, OR DECREASED SAFETY.
7. REMOVALS, DISCONNECTIONS, AND RELOCATIONS SHALL BE PERFORMED BY WORKMEN SKILLED IN THE TRADE INVOLVED AND SHALL BE EMPLOYED BY A CONTRACTOR LICENSED IN THE TRADE INVOLVED. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ACCEPTED TRADE PRACTICES.
8. PROVIDE ADEQUATE TEMPORARY SUPPORT FOR WORK TO REMAIN TO PREVENT FAILURE. DO NOT ENDANGER OTHER WORK.
9. PROTECTION: PROVIDE ADEQUATE PROTECTION WHERE REQUIRED FOR THE PRESENT BUILDING AND ITS CONTENTS. TEMPORARY DUSTPROOF BARRIERS AND BARRICADES SHALL BE ERECTED WHERE REQUIRED FOR PROTECTION OF PERSONNEL, PROTECTION FROM DUST AND DIRT, FOR SECURITY, FIRE AND WEATHER PROTECTIVE REASONS. CONTRACTOR SHALL TAKE EVERY PRECAUTION AGAINST FIRE BY EMPLOYING FIRE DEPARTMENT TYPE HOSES AND PORTABLE FIRE EXTINGUISHERS AS REQUIRED BY OSHA AND/OR THE OWNER'S INSURANCE UNDERWRITER.
10. ALL EXISTING EQUIPMENT REQUIRED TO BE REUSED SHALL BE CLEANED, RECONDITIONED, CALIBRATED AND ADJUSTED. IN ALL INSTANCES WHERE CONTRACTOR FINDS THAT EXISTING EQUIPMENT IS DEFECTIVE TO THE POINT WHERE IT CANNOT BE PROPERLY RESTORED AND WILL NOT OPERATE PROPERLY, THEY SHALL REPORT THE SPECIFIC INSTRUMENTS OR EQUIPMENT TO THE ENGINEER FOR DIRECTIONS.
11. EXTREME CARE SHALL BE EXERCISED FOR ALL EXISTING ITEMS THAT ARE TO REMAIN IN SERVICE UNTIL NEW ITEMS ARE INSTALLED FOR THE SAME SERVICE. ALL SHUTDOWNS OF ANY SYSTEM SHALL BE COORDINATED WITH THE OWNER.
12. ALL DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR SHALL CAREFULLY EXAMINE EXISTING CONDITIONS PRIOR TO STARTING WORK

LIST OF DRAWINGS

FP–001	FP COVER SHEET
DFP–100B	FP BASEMENT DEMO
FP–100B	FP BASEMENT NEW WORK
FP–100A	FP BASEMENT NEW WORK
FP–101A	FP 1ST FLR NEW WORK
FP–101B	FP 1ST FLR NEW WORK
FP–102A	FP 2ND FLR NEW WORK
FP–102B	FP 2ND FLR NEW WORK
FP–103	FP 3RD FLR NEW WORK
FP–201	FP SCHEDULES & DETAILS

SYMBOL AND ABBREVIATION LEGEND

BFP	BACK FLOW PREVENTER
CA	COMPRESSED AIR
DN	DOWN
DW	DISHWASHER
EC	ELECTRICAL CONTRACTOR
FD–A	FLOOR DRAIN
FS	FLOW SWITCH
GC	GENERAL CONTRACTOR
MAX	MAXIMUM
MIN	MINIMUM
MC	MECHANICAL CONTRACTOR
M	MONITORED
N	NEW WORK
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
NIC	NOT IN CONTRACT
OS&Y	OUTSIDE SCREW & YOKE GATE VALVE
PC	PLUMBING CONTRACTOR
PRV	PRESSURE REDUCING VALVE



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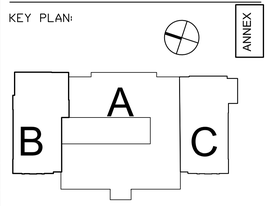

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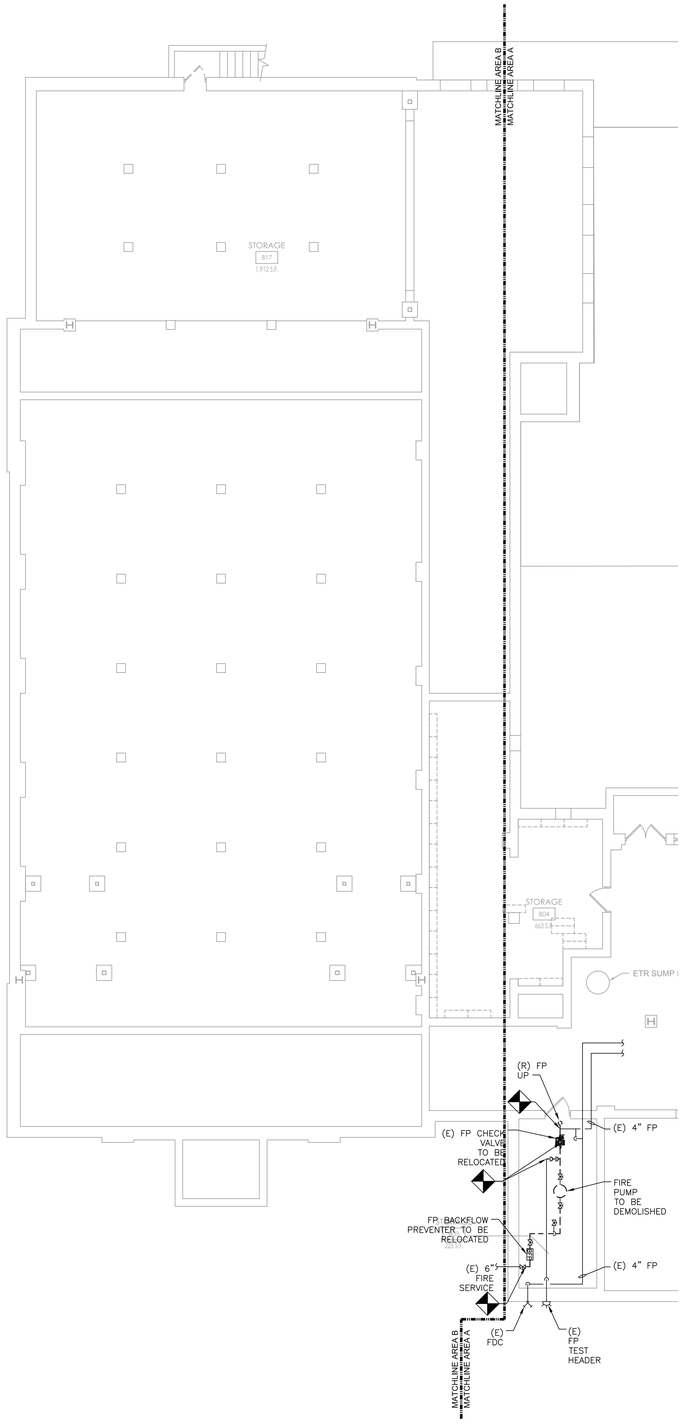

1 FIRE PROTECTION DEMOLITION BASEMENT FLOOR PLAN - AREA B

SCALE: 1/8"=1'0"

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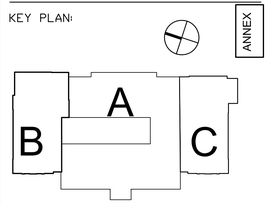

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FP BASEMENT NEW WORK

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DFP-100B

Sheet 0 of 000

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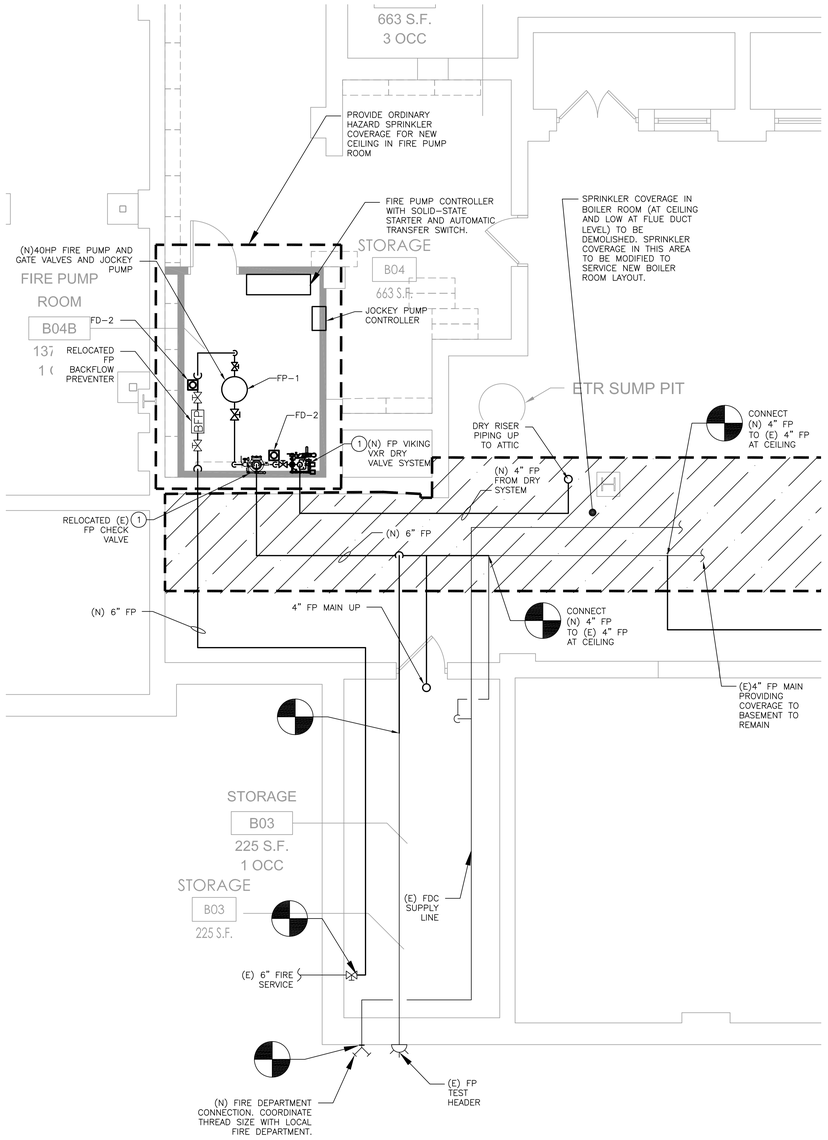
12/8/2025 7:20:52 AM

COVERAGE LEGEND

LIGHT HAZARD IN BOILER ROOM COVERAGE AREA. SPRINKLER HEADS AND BRANCH PIPING SHALL BE MODIFIED FOR NEW SYSTEM AFTER DEMOLITION OF COVERAGE AREA

NEW WORK PLAN KEY NOTES:

1. PROVIDE AND ROUTE FIRE PROTECTION SYSTEM VALVE DRAINS TO CLOSEST FLOOR DRAINS



1 FIRE PROTECTION EQUIPMENT NEW WORK PLAN - BASEMENT- PART B

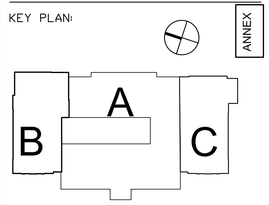
SCALE: 1/4"=1'0"

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



No.	Date	Description
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	12/03/25	DCA Submission

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2450 W Hunting Park Ave., Bldg 9 • Philadelphia, PA 19129-1302 • T: 215.634.3400

Richard D. Alderiso , AIA
NJ RA AI 15023, NY RA 027416, PA RA 405474

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Client:

Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:

Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:

Project No: 25.024
Date:
Drawn By: JBM
Checked By: RLD

Sheet Name:

FP BASEMENT DEMO

Sheet No:

FP-100B

Sheet 0 of 000

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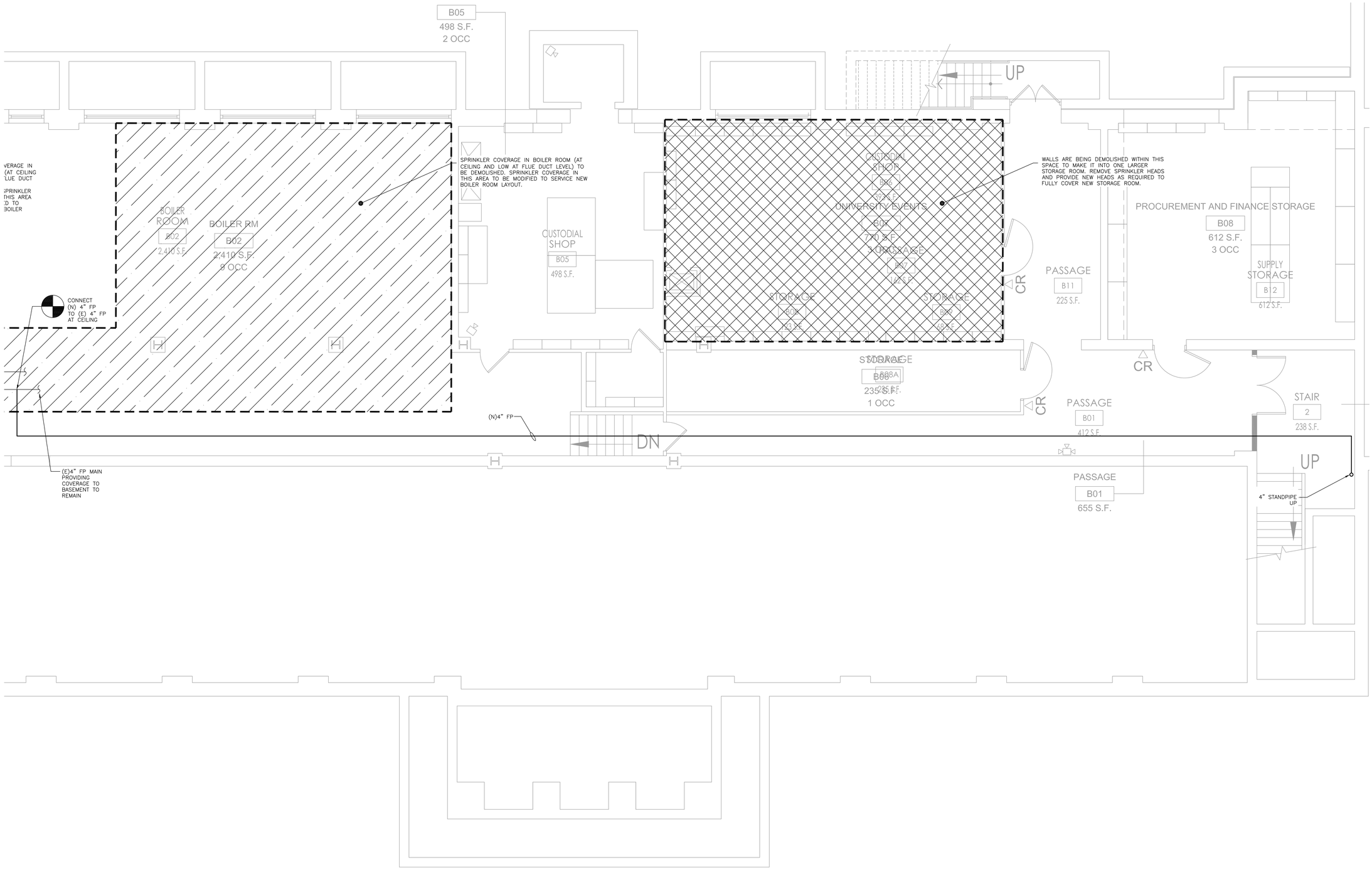
COVERAGE LEGEND

LIGHT HAZARD IN BOILER ROOM COVERAGE AREA. SPRINKLER HEADS AND BRANCH PIPING SHALL BE MODIFIED FOR NEW SYSTEM AFTER DEMOLITION OF COVERAGE AREA

ORDINARY HAZARD IN STORAGE ROOM COVERAGE AREA. SPRINKLER HEADS AND BRANCH PIPING SHALL BE MODIFIED FOR NEW SYSTEM AFTER DEMOLITION OF COVERAGE AREA

NOTES:

1. REFER TO DRAWING NO. FP-001 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. EXISTING SPRINKLER COVERAGE IN BASEMENT TO REMAIN EXISTING.



1 FIRE PROTECTION EQUIPMENT NEW WORK PLAN - BASEMENT- PART A

SCALE: 1/4"=1'0"

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:

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201 Mullica Hill Rd.
Glassboro, NJ 08028

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BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:

Project No: 25.024
Date:
Drawn By: JBM
Checked By: RLD

Sheet Name:

FP BASEMENT NEW WORK

Sheet No:

FP-100A

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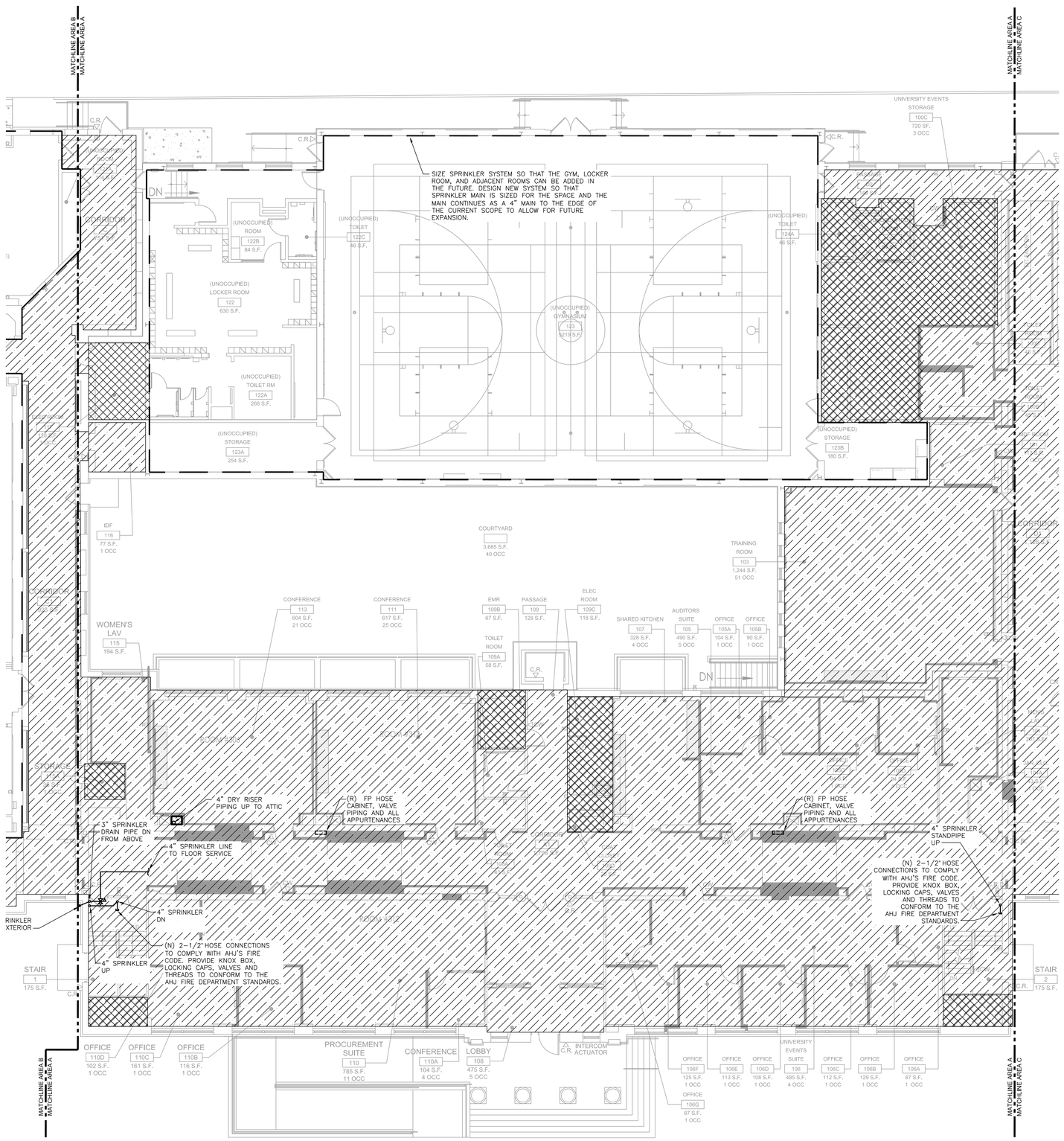

1 FIRE PROTECTION NEW WORK FIRST FLOOR PLAN AREA A

SCALE: 1/8"=1'0"

COVERAGE LEGEND

LIGHT HAZARD COVERAGE AREA

ORDINARY HAZARD COVERAGE AREA

NOTES:

1. REFER TO DRAWING NO. FP-001 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. PROVIDE INSPECTOR'S TEST CONNECTIONS AS DETAILED AND AS DEFINED IN NFPA-13 2019 FOR ALL ZONES AT HIGHEST HYDRAULIC DEMAND ZONE SECTION. MINIMUM (1) INSPECTORS TEST STATION REQUIRED PER ZONE.
3. COORDINATE LOCATION OF PIPING AND SPRINKLER HEADS WITH ALL LIGHTING, EQUIPMENT DUCTWORK, STRUCTURAL, ETC.
4. PROVIDE SPRINKLER COVERAGE THROUGHOUT HATCHED AREAS AS PER NFPA-13 REQUIREMENTS.

M/E/P Engineer:

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Consulting M/E/P Engineers
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RICHARD L. DELP, PE
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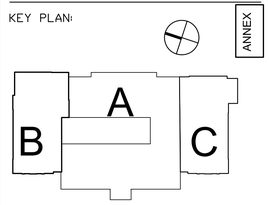
KEY PLAN:



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NJ RA AI 15023, NY RA 027416, PA RA 405474

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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JM
Checked By: RLD

Sheet Name:
FP 1ST FLR NEW WORK

Sheet No:
FP-101A
Sheet 0 of 000

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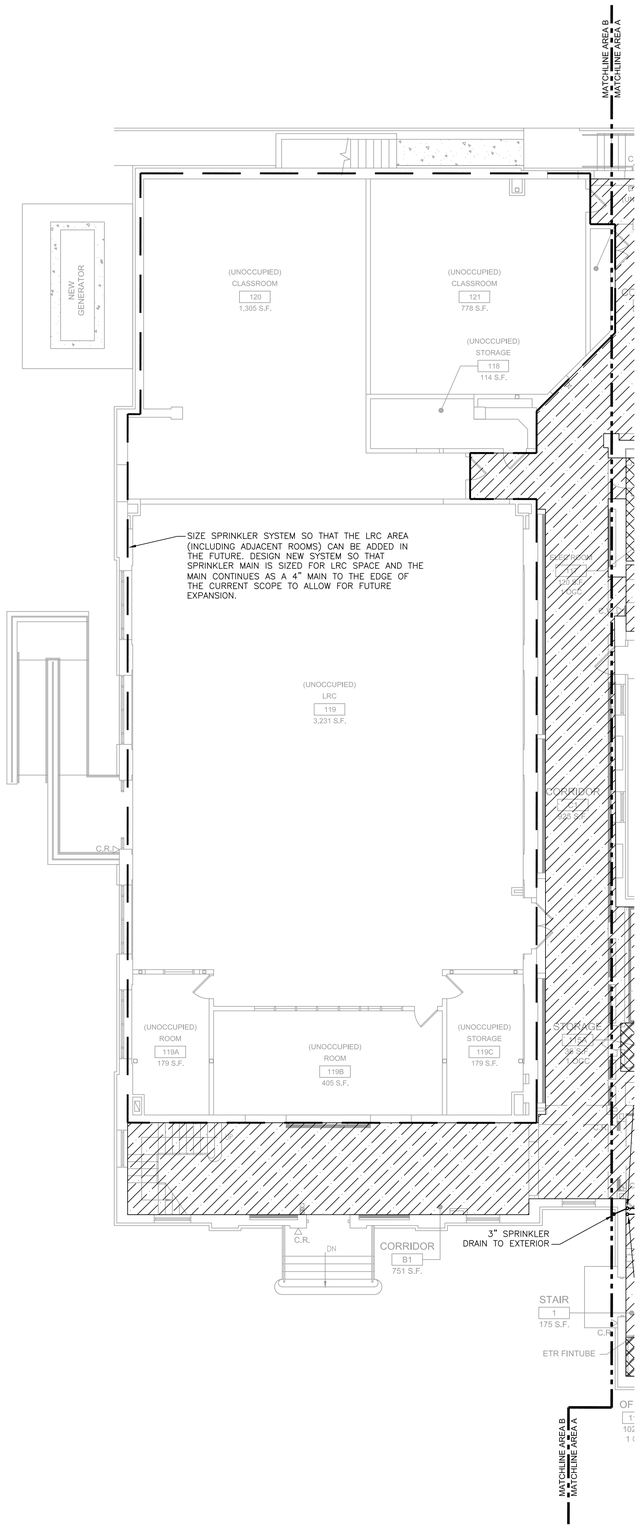
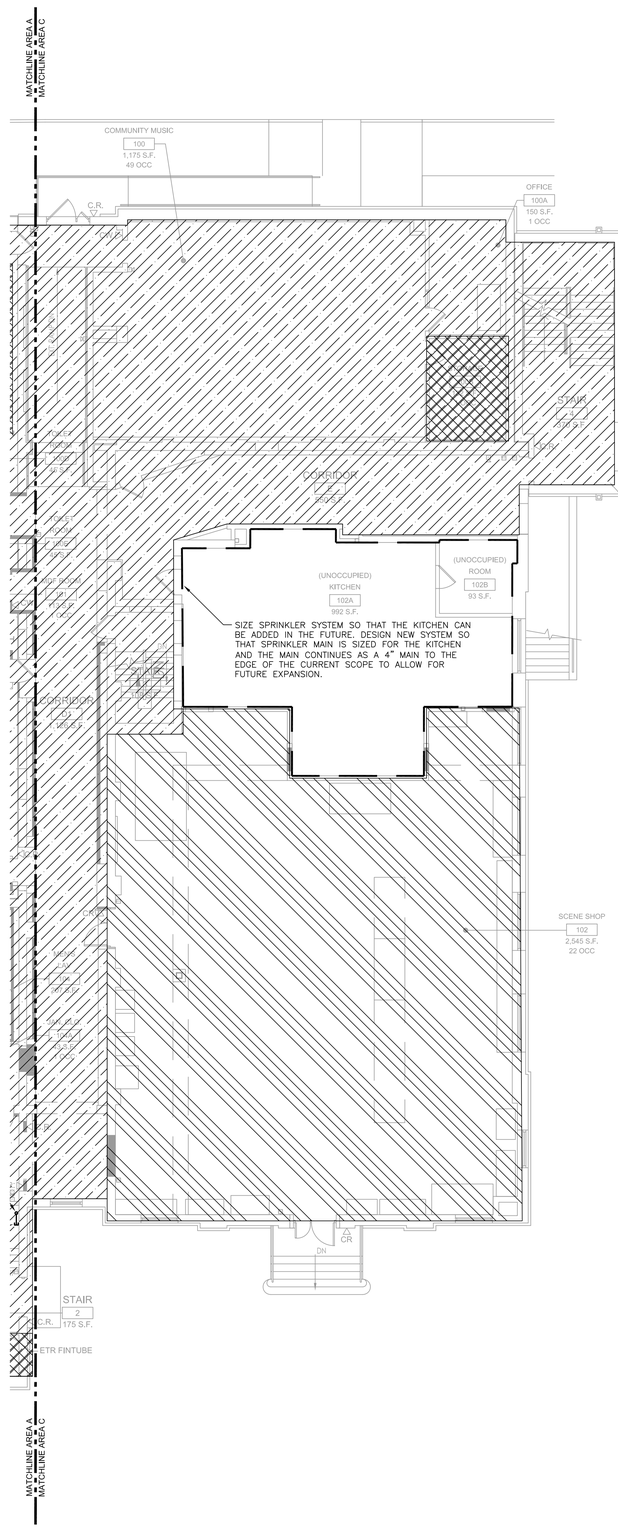


1 FIRE PROTECTION NEW WORK FIRST FLOOR PLAN AREA B

SCALE: 1/8"=1'0"



2 FIRE PROTECTION NEW WORK FIRST FLOOR PLAN AREA C

SCALE: 1/8"=1'0"

COVERAGE LEGEND

- LIGHT HAZARD COVERAGE AREA
- ORDINARY HAZARD COVERAGE AREA
- EXTRA HAZARD COVERAGE AREA

NOTES:

1. REFER TO DRAWING NO. FP-001 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. PROVIDE INSPECTOR'S TEST CONNECTIONS AS DETAILED AND AS DEFINED IN NFPA-13 2019 FOR ALL ZONES AT HIGHEST HYDRAULIC DEMAND ZONE SECTION. MINIMUM (1) INSPECTORS TEST STATION REQUIRED PER ZONE.
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4. PROVIDE SPRINKLER COVERAGE THROUGHOUT HATCHED AREAS AS PER NFPA-13 REQUIREMENTS.

M/E/P Engineer:

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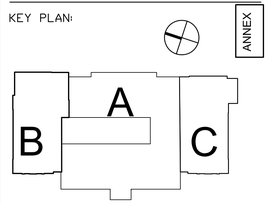
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JM
Checked By: RLD

Sheet Name:
FP 1ST FLR NEW WORK

Sheet No:
FP-101B
Sheet 0 of 000

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COVERAGE LEGEND

LIGHT HAZARD COVERAGE AREA

ORDINARY HAZARD COVERAGE AREA

NOTES:

1. REFER TO DRAWING NO. FP-001 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
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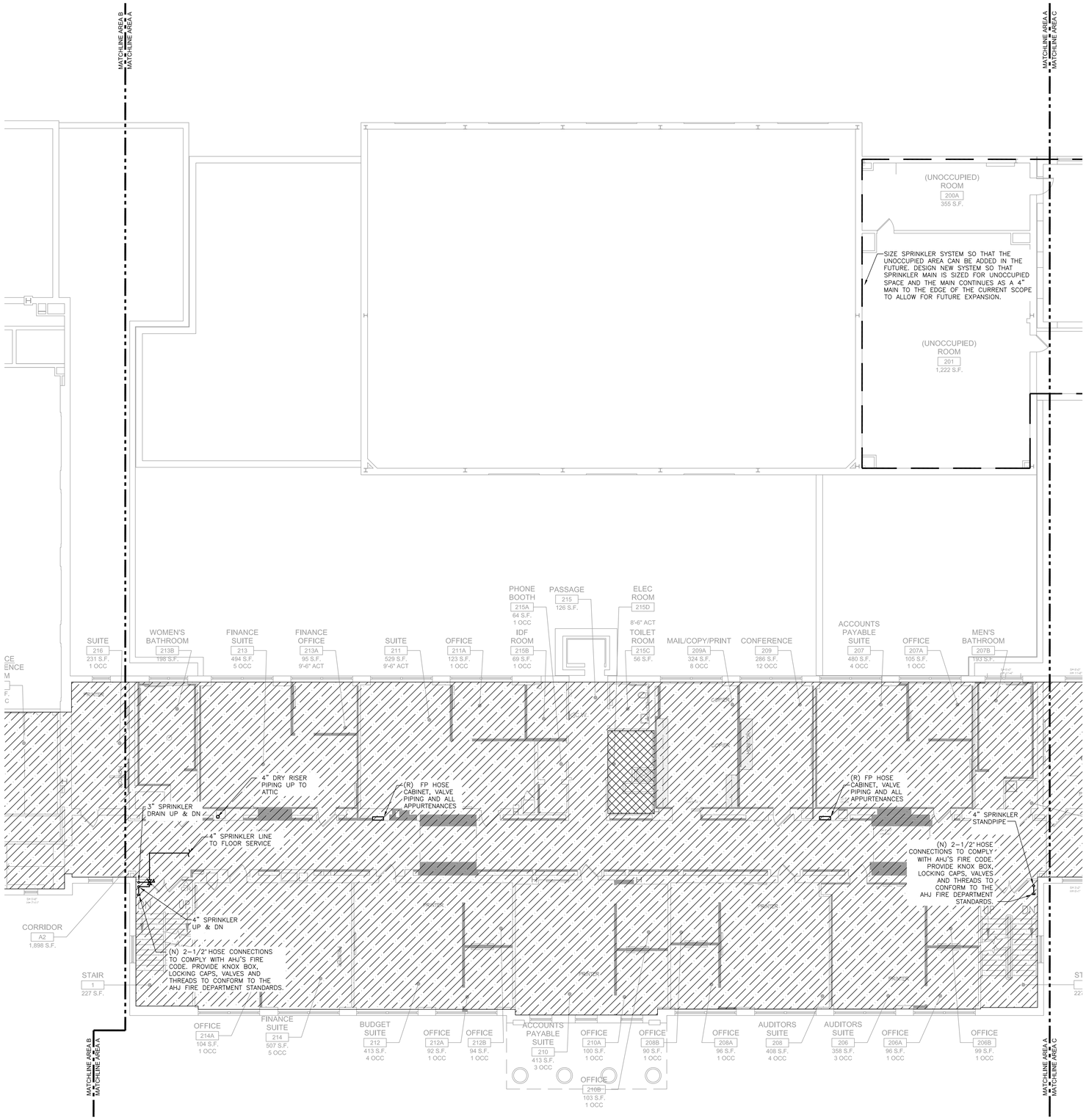


1 FIRE PROTECTION NEW WORK SECOND FLOOR PLAN AREA A

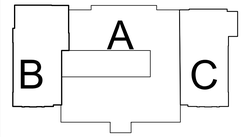
SCALE: 1/8"=1'0"

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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NJ RA AI 15023, NY RA 027416, PA RA 405474

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Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 28 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JM
Checked By: RLD

Sheet Name:
FP 2ND FLR NEW WORK

Sheet No:
FP-102A
Sheet 0 of 000

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COVERAGE LEGEND

LIGHT HAZARD COVERAGE AREA

ORDINARY HAZARD COVERAGE AREA

NOTES:

1. REFER TO DRAWING NO. FP-001 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. PROVIDE INSPECTOR'S TEST CONNECTIONS AS DETAILED AND AS DEFINED IN NFPA-13 2019 FOR ALL ZONES AT HIGHEST HYDRAULIC DEMAND ZONE SECTION. MINIMUM (1) INSPECTORS TEST STATION REQUIRED PER ZONE.
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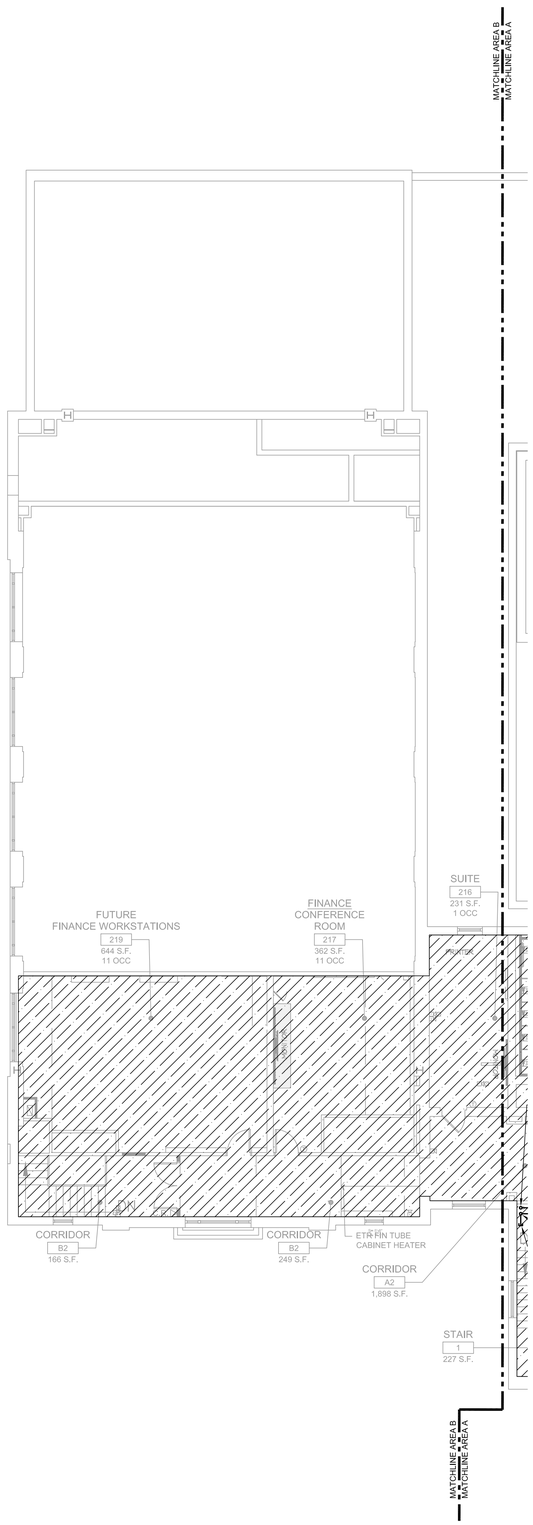
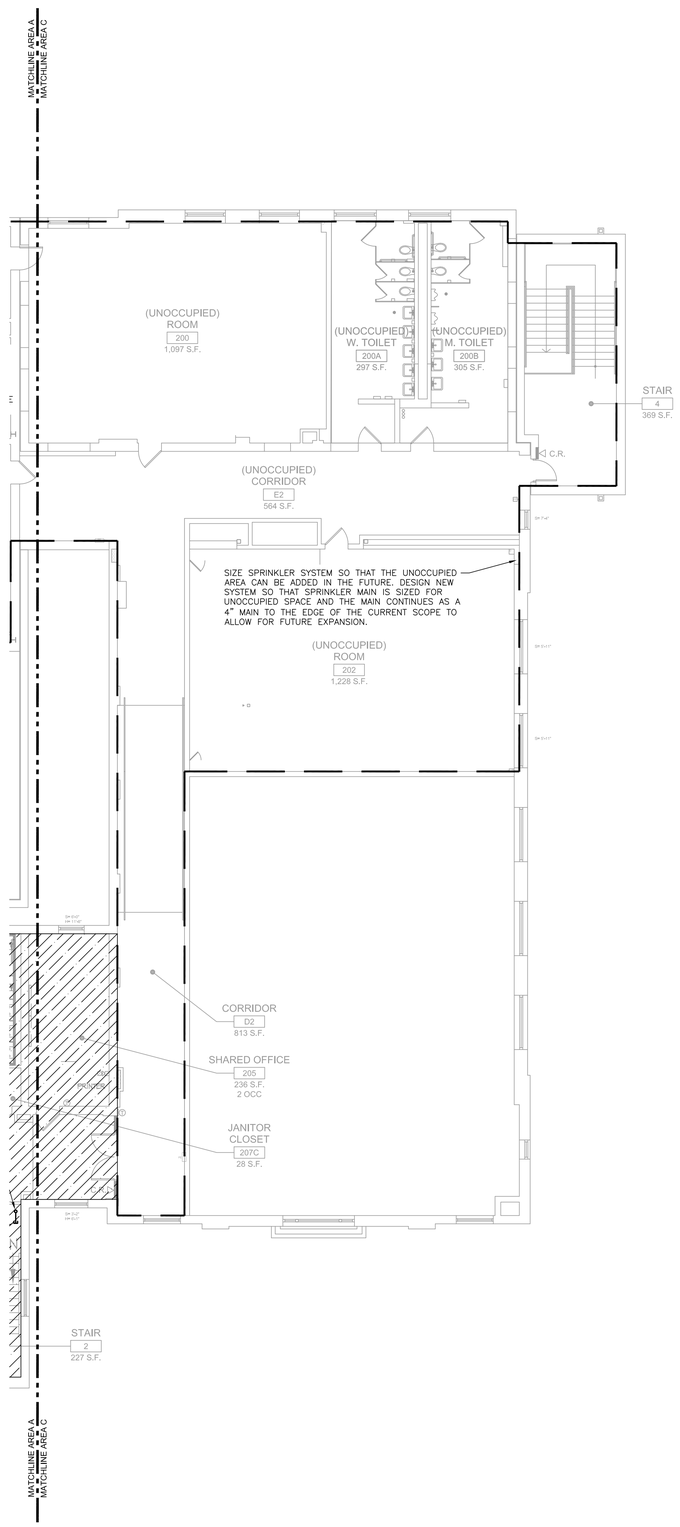
4. PROVIDE SPRINKLER COVERAGE THROUGHOUT HATCHED AREAS AS PER NFPA-13 REQUIREMENTS.



1 FIRE PROTECTION NEW WORK SECOND FLOOR PLAN AREA B

SCALE: 1/8"=1'0"



2 FIRE PROTECTION NEW WORK SECOND FLOOR PLAN AREA C

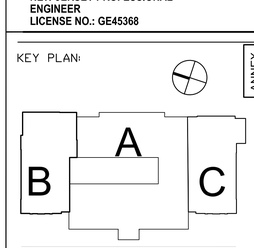
SCALE: 1/8"=1'0"

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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NJ RA AI 15023, NY RA 027416, PA RA 405474

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Glassboro, NJ 08028

Project:

Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:

Project No: 25.024
Date:
Drawn By: JM
Checked By: RLD

Sheet Name:

FP 2ND FLR NEW WORK

Sheet No:

FP-102B

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COVERAGE LEGEND

LIGHT HAZARD COVERAGE AREA

ORDINARY HAZARD COVERAGE AREA

NOTES:

1. REFER TO DRAWING NO. FP-001 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. PROVIDE INSPECTOR'S TEST CONNECTIONS AS DETAILED AND AS DEFINED IN NFPA-13 2019 FOR ALL ZONES AT HIGHEST HYDRAULIC DEMAND ZONE SECTION. MINIMUM (1) INSPECTORS TEST STATION REQUIRED PER ZONE.
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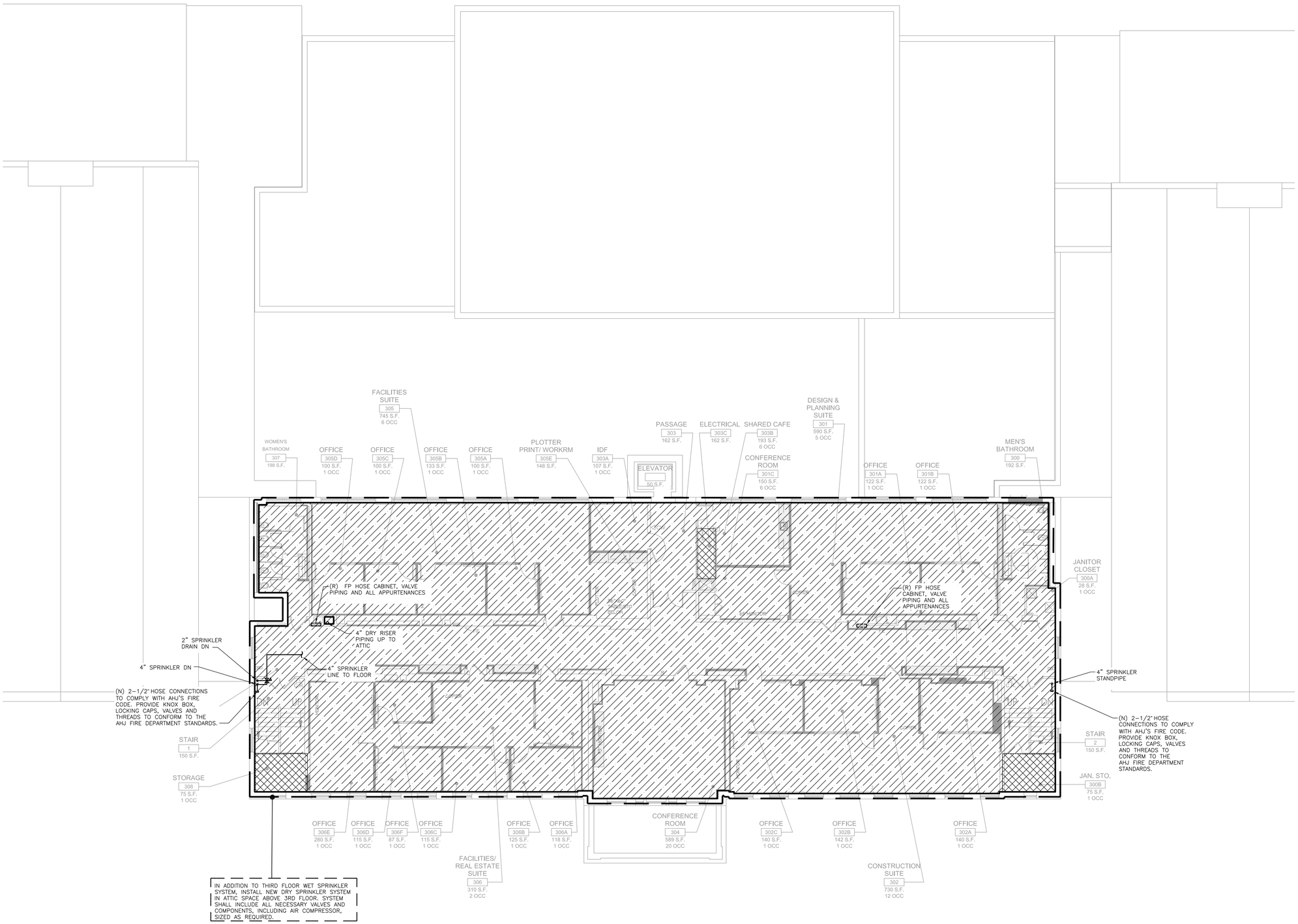
4. PROVIDE SPRINKLER COVERAGE THROUGHOUT HATCHED AREAS AS PER NFPA-13 REQUIREMENTS.



1 FIRE PROTECTION NEW WORK THIRD FLOOR AND ATTIC PLAN

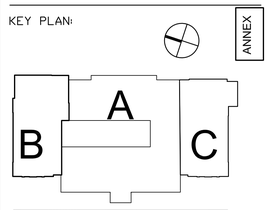
SCALE: 1/8"=1'0"

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



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Client:

Rowan University
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Glassboro, NJ 08028

Project:

Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:

Project No: 25.024
Date:
Drawn By: JM
Checked By: RLD

Sheet Name:

FP 3RD FLR NEW WORK

Sheet No:

FP-103

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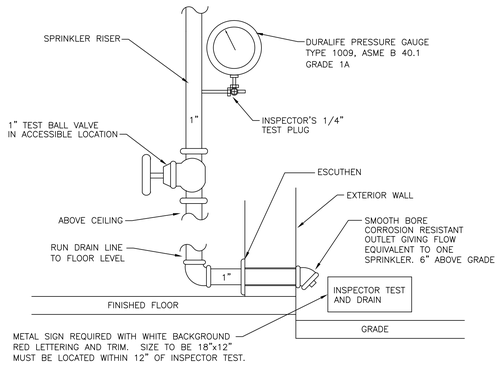
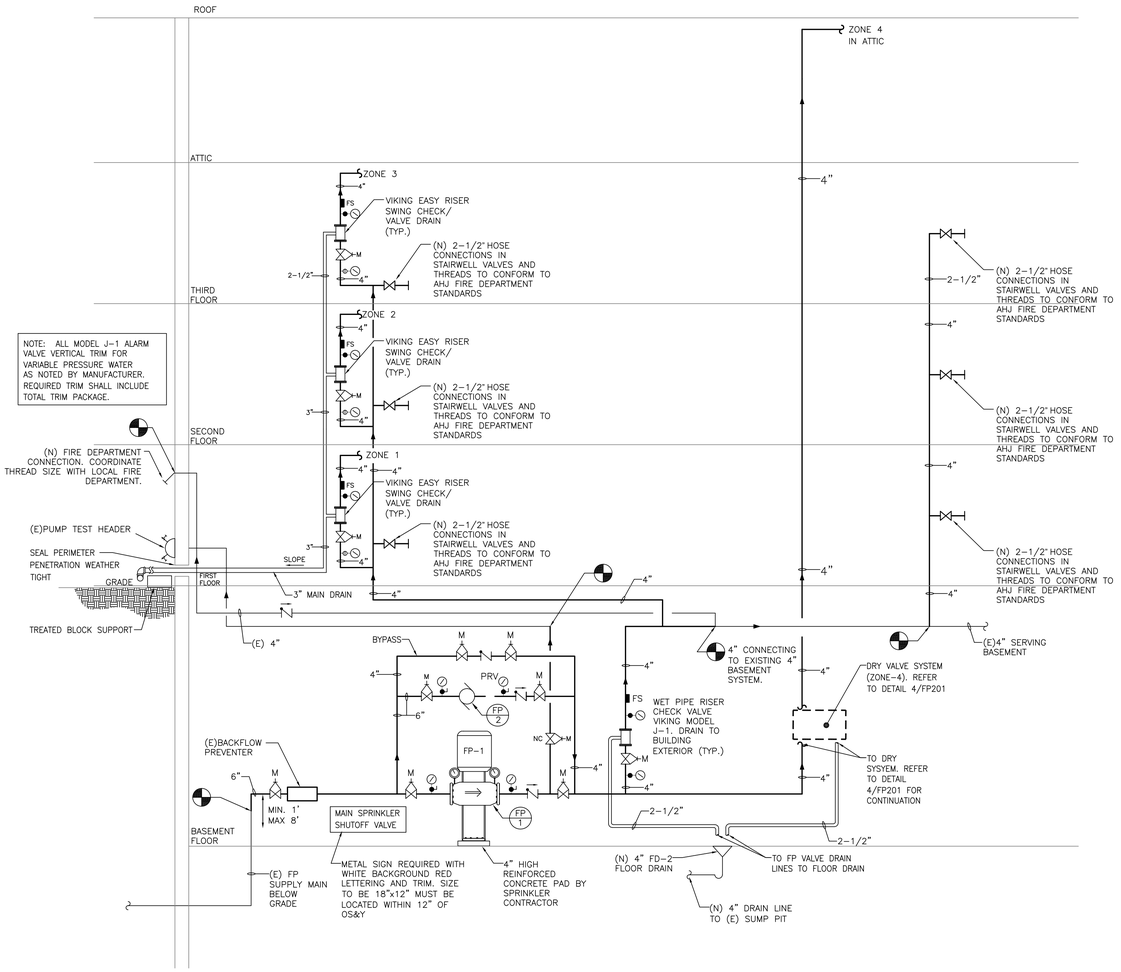
FIRE PUMP SCHEDULE										
UNIT TAG	SERVICE	GPM	TDH (PSI)	RPM	MOTOR HP	ELECTRICAL CHARACTERISTICS			TYPE	BASIS OF DESIGN MANUFACTURER AND MODEL NO.
						VOLTS	PHASE	HZ		
FP-1	CAMPUS FIRE PUMP	750	50	1780	42.3	208	3	60	VERTICAL INLINE	PEERLESS - 6PVF12
FP-2	JOCKEY PUMP	8	60	1750	0.75	208	3	60	CLOSE COUPLED	GRUNDFOS-CR-1-6

*PUMP TO BE PROVIDED WITH CONTROLLER

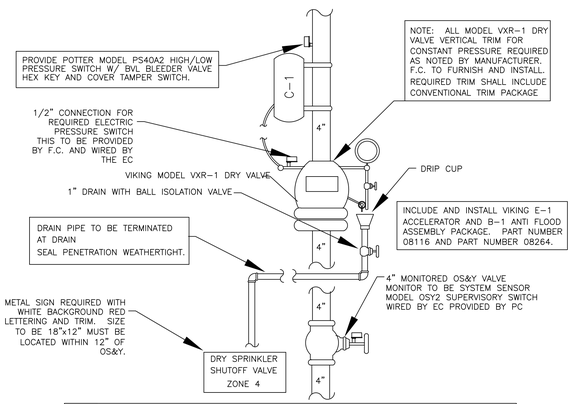
1 FIRE PUMP SCHEDULE
SCALE: NOT TO SCALE



2 SPRINKLER PIPING INSPECTORS CHECK DETAIL
SCALE: NOT TO SCALE



3 FIRE SERVICE DETAIL
SCALE: NOT TO SCALE



AIR COMPRESSOR SCHEDULE										
UNIT NO.	AREA SERVED	CUT IN PRESSURE PSI	CUT OUT PRESSURE PSI	HP	ELECTRICAL CHARACTERISTICS			TYPE	SUPPLIED AIR @ 50 PSI SCFM	VIKING MODEL NO.
					VOLTS	PHASE	CYCLE			
C-1	3RD FLR ATTIC	15	65	1	208	1	60	RISER MTD	11.4	VXR-1

IMPORTANT NOTE: COMPRESSOR MUST BE ABLE TO COMPLETELY CHARGE THE SYSTEM WITH-IN 30 MINUTES IF COMPRESSOR IS NOT ABLE TO PRESSURIZE THE SYSTEM IN THIS TIME LIMIT CONTRACTOR IS REQUIRED TO PROVIDE A COMPRESSOR THAT IS ABLE TO MEET THIS REQUIREMENT WITH LIKE ACCESSORIES THAT IS SIZED PER MANUFACTURES RECOMMENDATIONS.

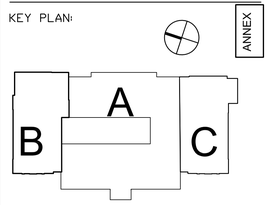
NOTES: PROVIDE UNIT COMPLETE WITH INTEGRAL CHECK VALVE TO PROVIDE A REGULATED AND RESTRICTED AIR SUPPLY UNIT TO BE USED AS THE MAINTENANCE & BASIC AIR SUPPLY FOR THE DRY PIPE FIRE PROTECTION SYSTEMS PROVIDE UNIT COMPLETE WITH INTEGRAL PRESSURE RELIEF VALVE SET TO 65 PSI MAX PROVIDE UNIT COMPLETE WITH INTEGRAL AIR SUPPLY FILTRATION ASSEMBLY *UNIT TO HAVE ADJUSTABLE ON/OFF DIFFERENTIAL PRESSURES AND ADJUSTABLE SUPPLY AIR PRESSURE FROM A MINIMUM OF 1.5 PSI TO A MAXIMUM OF 75 PSI

4 SPRINKLER DRY VALVE DETAIL
SCALE: NOT TO SCALE

M/E/P Engineer:
SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2528A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

KEY PLAN:



No.	Date	Description
	12/08/25	OUT TO BID
	12/03/25	DCA Submission

Revisions / Issues

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DO NOT SCALE, DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client:
Rowan University
201 Mullica Hill Rd.
Glassboro, NJ 08028

Project:
Alterations to Facility Located at 202 Delsea Drive
BLOCK 26 / LOT 412
202 Delsea Dr.
Glassboro, NJ 08028

Drawing Information:
Project No: 25.024
Date:
Drawn By: JBM
Checked By: RLD

Sheet Name:
FP SCHEDULES & DETAILS

Sheet No:
FP-201
Sheet 0 of 000

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