ROWAN EPA - LAUNDRY ROOMS 400 EDGEWOOD DRIVE, GLASSBORO, NJ 08028

ABBREVIATIONS

(A)	Abandon(ed)		
(D)	Demolished/ Removed		
(E)	Existing		
(F)	Future		
(N)	New		
(R)	Relocated		
	Anchor Bolt		
ADV			
ACT			
ADA	Accessible		
ADJ	Adjacent		
AFF	Above Finished Floor		
AHAP	As High As Possible		
ALUM	Aluminum		
APC	Acoustical Panel Ceiling		
ARCH	Architect(ural)		
AW	Architectural Woodwork		
BC	Brick Color		
BD	Board		
BI	Baseline [,] Building Line		
BLDG	Building		
BLKC	Blocking		
BLKG	Blocking Bettern Of		
BO	Bottom Of		
BOC	Bottom Of Curb		
BOS	Bottom Of Steel		
BOT	Bottom		
BRK	Brick		
BSMT	Basement		
BTWN	Between		
CAB	Cabinet		
CBU	Concrete Backer Unit		
CER	Ceramic		
CG	Corner Guard		
	Contor Line		
CLG	Celling		
CLR	Clear		
СМО	Concrete Masonry Unit		
COL	Column		
CONC	Concrete		
CONT	Continuous		
CONTR	Contract(or)		
CORR	Corridor		
CPT	Carpet		
CS	Course		
ст	Ceramic Tile		
CTR	Counter		
	Deen		
	Diameter		
	Down		
DOCS	Documents		
DS	Downspout		
DTL	Detail		
DWG	Drawing		
EA	Each		
EJ	Expansion Joint		
EL	Elevation		
ELEC	Electric(al)		
FLEV	Elevator or Elevation		

EPB	Electrical Panel Board
EQ	Equal
ETR	Existing to Remain
EWC	Electric Water Cooler
EXG	Existing
FXT	Exterior
ED	Eleor Drain
FE	Fire Extinguisher
FEB	Fire Extinguisher & Bracket
FEC	
FIN	Finish(ed)
FLASH	
FLR	Floor
FO	Face of
FOW	Face of Wall
FP	Fire Protection
FR	Fire Rated
FRT	Fire Retardant Treated
FTG	Footing
FURR	Furring
GA	Gauge
GALV	Galvanized
GC	General Contractor
GL	Glass
GWR	Gypsum Wall Board
	Handicap; Heavy Commercial; Hollow Core; Hose Cabinet
HDWD	Hardwood
HM	Hollow Metal
HOR	Horizontal
HPL	High Pressure Laminate
HT	Height
HW	Hardware
IGU	Insulated Glazing Unit
MAS	Masonry
MAIL	
MAX	Maximum
MB	Markerboard
MDF	Medium Density Fiberboard
MECH	Mechanical
MEP	Mechanical/Electrical/
	Plumbing
MFR	Manufacturer
MIN	Minimum
MLWK	Millwork
МО	Masonry Opening
MR	Moisture Resistant
MTD	Mounted: Mean Temperature
	Difference
MTL	Metal
NIC	Not in Contract
NO or #	Number
NRC	Noise Reduction Coefficient
NTS	Not to Scale
OC	On-Center

OD	Outside Diameter	
OPNG	Opening	
OPP	Opposite	
PL	Plate	
	Plastic Laminate	
PLAS	Plastic/ Plaster	
	Playcod	
PR	Pair	
	Fall	
PROVIDE	Supply & Install	
	Pressure Treated	
	Painted	
R	Radius; Riser(s)	
RECPT	Receptacle	
REINF	Reinforce(d); Reinforcement	
REM	Remainder	
REQD	Required	
RES	Resilient	
RO	Rough Opening	
RWC	Rain Water Conductor	
SAB	Sound Attenuation Blanket	
SCHED	Schedule(d)	
SF	Square Feet: Supply Fan:	
	Safety Factor	
SFRM	Spray Applied Fireproofing	
SH	Shelf; Shelves	
SHT	Sheet	
SIM	Similar	
SUNT	Sealant	
	Specification(s)	
ST ST or SS	Staipless Steel	
ST ST 01 55		
510	Coefficient	
STD	Standard	
STL	Steel	
STN	Station	
STRUC	Structure(al)	
SUSP	Suspend(ed)	
<u>т</u>	Tread	
Т	Taakhaard	
	remporary	
IH	I hick(ness)	
THRESH	Ihreshold	
ТО	Top of	
тос	Top of Curb; Top of Concrete	
TOS	Top of Steel	
TYP	Typical	
U/S	Underside	
UL	Underwriters Laboratories	
UNO	Unless Noted Otherwise	
VCT	Vinyl Composition Tile	
VERT	Vertical	
VIF	Verify in Field	
VWC	Vinyl Wall Covering	
W	Wide	
WB	Whiteboard	
	Wood	
	Wood Blocking	
VVIN	window	
VVVVF		
Х	Multiply: Times: or Unknown #	



PROJECT SUMMARY

PROJECT CONSISTS OF A NEW ADDITION TO EACH OF FOUR APARTMENT BUILDINGS TO PROVIDE LAUNDRY FACILITIES AND ADDITIONAL IRT SPACE. ADDITION WILL BUTT AGAINST EXISTING BUILDINGS AND CONNECT THROUGH A NEW MASONRY OPENING TO EXISTING IRT CLOSETS. ADDITION WILL HAVE ITS OWN ENTRY SEPARATE FROM THE APARTMENTS, TO WHICH ADDITIONAL CONCRETE PATHS WILL BE CREATED.

GENERAL NOTES

- 1. ALL WORK SHALL CONFORM TO THE 2021 IBC INTERNATIONAL BUILDING CODE AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS. WHERE ANY STANDARDS SEEM IN CONFLICT WITH THESE CODES, NOTIFY THE PROFESSIONAL FOR DIRECTION PRIOR TO PROCEEDING WITH WORK.
- 2. ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE PRIOR TO PROCEEDING WITH THE WORK. ANY DISCREPANCY BETWEEN THE DOCUMENTS AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE PROFESSIONAL FOR CORRECTIVE ACTION PRIOR TO PROCEEDING WITH WORK.
- 3. IN THE EVENT THAT EXTRAORDINARY CONCEALED CONDITIONS REQUIRING ATTENTION ARE ENCOUNTERED, THE CONTRACTOR SHALL NOTIFY THE PROFESSIONAL IMMEDIATELY. IF THE EXISTING FIELD CONDITIONS DO NOT PERMIT THE INSTALLATION OF THE WORK IN ACCORDANCE WITH THE DETAILS SHOWN, THE CONTRACTOR SHALL NOTIFY THE PROFESSIONAL IMMEDIATELY.
- 4. WORK NOT INDICATED ON A PART OF THE DRAWINGS, BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT THE CORRESPONDING PLACES SHALL BE REPEATED.
- 5. CONTRACTOR SHALL HAVE ALL REQUIRED SUBMITTAL APPROVALS PRIOR TO BEGINNING THE WORK OR ORDERING MATERIALS.
- WHERE ALTERATIONS INVOLVE THE EXISTING SUPPORTING STRUCTURE, THE CONTRACTOR SHALL PROVIDE REQUIRED ENGINEERED SHORING AND PROTECTION TO INSURE THE STRUCTURAL INTEGRITY OF THE EXISTING STRUCTURE.
- 7. CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY PROCEDURES, MEANS AND METHODS,
- SEQUENCING AND COORDINATION FOR ALL WORK. 8. ALL WORK SHALL BE PERFORMED BY QUALIFIED, EXPERIENCED PERSONNEL.
- 9. FIELD DRAWINGS REQUIRE REVIEW AND WRITTEN APPROVAL BY THE PROFESSIONAL PRIOR TO EXECUTING WORK.
 10. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR AND RESTORATION OF ANY CONDITIONS
- DAMAGED BY CONSTRUCTION OR DEMOLITION ACTIVITIES.
 11. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND PROTECTION OF VEHICULAR AND PEDESTRIAN TRAFFIC RELATED TO THE WORK. ALL MEASURES SHALL BE IN CONFORMANCE WITH OSHA AND LOCAL AUTHORITIES HAVING JURISDICTION OVER TRAFFIC
- CONTROL. 12. ENTIRE EXISTING FIRE ALARM/NOTIFICATION SYSTEM SHALL REMAIN IN FULL OPERATION DURING ALL PHASES OF CONSTRUCTION. PATCH, REPAIR AND PAINT WALLS/CEILING AFTER EXISTING SYSTEM HAS BEEN DEMOLISHED AT END OF PROJECT.
- UNLESS OTHERWISE NOTED, ALL ITEMS ARE EXISTING TO REMAIN AND ADJACENT TO "NEW WORK", TO BE PROTECTED DURING CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INFORM THE OWNER OF DAMAGE TO EXISTING CONDITIONS BEFORE BEGINNING WORK, OTHERWISE THE REPAIR OF SUCH DAMAGE IS THE RESPONSIBILITY OF THE CONTRACTOR.
- STAIR, DOOR, AND EMERGENCY EGRESS PATHS MUST BE KEPT CLEAR DURING THE WORK.
 THE EXISTING CONDITIONS THAT ARE SHOWN TO BE REMOVED OR MAY BE DISTURBED MAY CONTAIN ASBESTOS. CONTRACTORS SHALL REFER TO THE OWNER'S ASBESTOS INSPECTION REPORT (AIR) FOR INDICATION OF SUCH MATERIALS. CONTRACTORS SHALL FOLLOW THE DIRECTIONS OF THE SPECIFICATIONS AND THE OWNER WHERE ASBESTOS IS IDENTIFIED.
 PROVIDE ADEQUATE DUST ISOLATION AND CONTROL.
- COORDINATE DISCONNECTION OF UTILITIES WITH THE OWNER.
 IN THE EVENT THE INSTALLING CONTRACTOR ENCOUNTERS ANY HAZARDOUS MATERIALS, THE CONTRACTOR SHALL REPORT TO THE OWNER'S REPRESENTATIVE & TAKE THE NECESSARY STEPS FOR REMEDIATION. THE OWNER IS RESPONSIBLE FOR HIRING AN ASBESTOS ABATEMENT CONTRACTOR WHO SHALL FURNISH ALL LABOR, MATERIALS, EMPLOYEE TRAINING, SERVICES, PERMITS, FEES, INSURANCE AND EQUIPMENT NECESSARY TO CARRY OUT THE ASBESTOS REMOVAL, DECONTAMINATION OPERATIONS AND DISPOSAL IN ACCORDANCE WITH EPA, OSHA, AND ALL OTHER APPLICABLE FEDERAL, STATE, AND LOCAL GOVERNMENT REGULATIONS.
- 19. ALL PENETRATIONS IN EXISTING CONCRETE FLOOR AND ROOF SLABS ARE TO AVOID REBAR AND OTHER STRUCTURAL ELEMENTS UNLESS NOTED OTHERWISE. SEE MPE AND STRUCTURAL DRAWINGS FOR ADDED NOTES AND REQUIREMENTS PRIOR TO MAKING NEW OPENINGS.
- 20. MAINTAIN TEMPORARY HEAT, COOLING AND HUMIDITY CONTROL AS REQUIRED BY CURING REQUIREMENTS OF FINISH MATERIALS.

GRAPHICS LEGEND



NOTE: SEE A800 SERIES SHEETS FOR DOOR, WINDOW, WALL, EQUIPMENT, AND/OR FINISH TAGS. SEE CONSULTANT DRAWING COVER SHEETS FOR SYMBOLS ASSOCIATED WITH THOSE TRADES.

			SHEET INDEX	
REVISION NO.	REVISION DATE	SHEET NO.	NO. SHEET TITLE	
		CS001	COVER SHEET	
		C0001		
		C0001		
		C1002		
		C1001		
		C0201		
		C0201	DETAILED SITE, GRADING AND UTILITY PLAN - 200 BUILDING	
		C0202	DETAILED SITE, GRADING AND UTILITY PLAN - 300 BUILDING	
		C0203		
		C1101	SITE DETAIL SHEET	
		C1201		
		C1201		
		C1301		
		C1302		
		01002		
		LS001	LIFE SAFETY PLAN & CODE ANALYSIS	
		0004		
		S001	GENERAL NOTES & SCHEDULES	
		S100	PARTIAL EXISTING PLANS	
		S200	SECTIONS & TYPICAL DETAILS	
		A001	SITE PLAN - OVERALL COMPLEX	
		A002	SITE PLAN - ENLARGED BUILDINGS 200, 300, 400, & 500	
		D101		
		D101	DEMOLITION PLAN & DETAILS	
		A101	PARTIAL PLANS - FLOOR & REFLECTED CEILING	
		A501	BUILDING ELEVATIONS & WALL SECTION	
		A502	BUILDING SECTIONS & INTERIOR ELEVATIONS	
		A701	DETAILS	
		A800	SCHEDULE & DETAILS - PARTITIONS	
		A810	SCHEDULES - DOORS, FRAMES, WINDOWS, & FINISHES	
I		I		
		M100	BUILDING 200 - FIRST FLOOR HVAC PLAN	
I				
		P001	PLUMBING SCHEDULES AND DETAILS	
		P100	PLUMBING PLAN	
		1		
		E100	BUILDING 200 - FIRST FLOOR ELECTRICAL PLANS	
		E200	BUILDING 200 - TELECOMMUNICATIONS PLAN	
I		1		
		FP100	FIRE PROTECTION PLAN	

Architect:				
4818 Baltimore Avenue Philadelphia, PA 19143 215.386.8191				
Consultants:				
O'DONNELLS NACCARATO STRUCTURAL ENGINEERS				
BCCLT CONSULTING ENGINEERS				
Seal:				
Project:				
ROWAN				
ROWAN EPA -				
LAUNDRY ROOMS				
GLASSBORO, NJ 08028				
Issue Date: 12/19/2024				
Revision Schedule No. Date By Description				
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The Contractor on site shall verify all dimensions and existing conditions. The contractor is required to perform all work in compliance with applicable codes and regulations of governing authorities having jurisdiction.				
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BOROUGH OF GLASSBORO, GLOUCESTER COUNTY, NEW JERSEY





FEMA FLOOD INSURANCE RATE MAP SCALE: $1" = 500^{\circ}$

MARATHON

3 Killdeer Court, Suite 302, Swedesboro, NJ 08085 1616 Pacific Avenue, Suite 501, Atlantic City, NJ 08401

OWNER/APPLICAN1

ROWAN UNIVERSITY 201 MULLICA HILL ROAD LASSBORO, NEW JERSEY 0802

APPLICANT'S INTENT

THE APPLICANT, ROWAN UNIVERSITY, SEEKS TO CONSTRUCT A LAUNDRY ROOM ADDITION WITH AN IRT CLOSET IN EACH OF THE EDGEWOOD PARK APARTMENT BUILDINGS. THE PROJECT IS SITUATED ON SHEET 3.01, BLOCK BOUNDED BY EDGEWOOD DRIVE TO THE NORTHWEST, SITUATED IN THE BOROUGH OF GLASSBORO, GLOUCESTER COUNTY, NEW JERSEY

CERTIFICATION OF APPROVALS

SITE PLAN OF <u>ROWAN UNIVERSITY EDGEWOOD AP</u> LOT <u>P/O 2.01</u> BLOCK <u>388</u> DATE <u>09/05/2024</u> SCALE	ARTMENT ADDITIONS	I HEREBY APPROVED OF GLASS	
APPLICANT ROWAN UNIVERSITY	(
ADDRESS 201 MULLICA HILL ROA	AD	CHAIRPERS	
GLASSBORO, NEW JERSEY	08028		
SITE PLAN CONTROL NO.		SECRETAR	
I HEREBY CERTIFY THAT I AM THE OWNER THE PROPERTY HEREIN DEPICTED AND THAT WITH THIS PLAN. I CONSENT TO THE FILING	OF RECORD OF I CONCUR OF THIS SITE	BOARD EN	
PLAN WITH THE PLANNING BOARD OF BORO GLASSBORO.	UGH OF	TOWNSHIP	
		THIS SITE GLOUCEST	
OWNER:	DATE		
OWNER:	DATE	CHAIRPER	
OWNER:	DATE	SECRETAR	

			SHEET INDEX
SHEE	ΓNO.	DWG. NO.	SI
10	F 13	C0001	COVER SHEET
2 0	F 13	C0002	INFORMATION SHEET
30	F 13	C1801	EXISTING CONDITIONS PLAN
4 0	F 13	C0100	OVERALL SITE PLAN
50	F 13	C0201	DETAILED SITE, GRADING AND UTILITY F
60	F 13	C0202	DETAILED SITE, GRADING AND UTILITY F
70	F 13	C0203	DETAILED SITE, GRADING AND UTILITY F
80	F 13	C0204	DETAILED SITE, GRADING AND UTILITY F
90	F 13	C1101	SITE DETAIL SHEET
10 0	F 13	C1201	SOIL EROSION AND SEDIMENT CONTROL
11 0	F 13	C1202	SOIL COMPACTION PLAN
12 0	F 13	C1301	SOIL EROSION AND SEDIMENT CONTROL
13 0	F 13	C1302	SOIL EROSION AND SEDIMENT CONTROL

09/05/2024 1	INITIAL SUBMISSION	SK J	JDD
ISSUE DATE ISSUE	NO. SUBMISSION/REVI	SION BY AF	PPR.
KUWAN UNIVEK SH BOROUGH OF	COVER SHEET	NS MARATHON Engineering & Environmental Services Swedesboro Office	
F	201 MULLICA HILL ROAD GLASSBORO, NEW JERSEY 08028	3 Killdeer Court, Suite 302, Swedesboro, NJ 08085 ph (856) 241-9705 fax (856) 241-9709 Certificate of Authorization #24GA27995700	
JESSE	D. DOUGHERTY, P.E. PROFESSIONAL ENGINEER ERSEY LICENSE NO. 24GE05008100 09/05/2024	ALL DOCUMENTS PREPARED BY MARATHON ENGINEERING AND ENVIRONMENTAL SERVICES, INC. ARE INSTRUMENTS OF SERVICE IN RESPECT TO THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER TO OTHER SON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY MARATHON ENGINEERING AND ENVIRONMENTAL SERVICES, INC. FOR THE SPECIFIC PURPOSE INTENDED WILL BE OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO MARATHON ENGINEERING AND ENVIRONMENTAL SERVICES, INC. AND SHALL INDEMNIFY AND HOLD HARMLESS MARATHON ENGINEERING AND ENVIRONMENTAL SERVICES, INC. FROM AUL OLAMS DAMAGES LOSSES AND EXPENSES APISING	VED) .t .t .13





CERTIFY THAT THIS SITE PLAN HAS BEEN BY RESOLUTION _ OF THE BOROUGH BORO PLANNING BOARD

SON	DATE
Y	DATE
GINEER	DATE
CLERK	DATE
PLAN IS HEREBY APPROVED BY ER COUNTY PLANNING BOARD.	THE
SON	DATE
Y	DATE

HEET TITLE LAN – 200 BUILDING LAN – 300 BUILDING LAN – 400 BUILDING LAN - 500 BUILDING PLAN

NARRATIVE SHEET DETAIL SHEET







SCALE: 1'' = 500'

D1784.

C. UTILITY NOTES

 ALL PROPOSED UTILITIES SHALL BE INSTALLED UNDERGROUND 2. STORMWATER MANAGEMENT SHALL BE IN ACCORDANCE WITH STANDARDS SET FORTH BY LOGAN

TOWNSHIP, AND THE STATE OF NEW JERSEY B.M.P. MANUAL AND NJAC 7:8. ALL REINFORCED CONCRETE PIPE (RCP) SHALL BE IN ACCORDANCE WITH ASTM C-76, CLASS IV, WALL B, EXCEPT WHERE NOTED. ALL CONCRÉTE STORM SEWER PIPE SHALL IS TO HAVE EITHER RUBBER GASKET OR BUTYL TAPE JOINTS AND BE WRAPPED WITH MORTAR AND FABRIC ON THE OUTSIDE. ALL 36" AND LARGER PIPE SHALL HAVE THE INSIDE OF THE JOINT MORTARED 4. ALL HIGH DENSITY POLYETHYLENE PIPE (HDPEP) SHALL CONFORM TO THE REQUIREMENTS OF AASHTO

M252 AND M294. MINIMUM COVER OVER HDPEP SHALL BE 24" FROM FINISHED GRADE. HDPE PIPE SHALL BE PLACED ON 12" CLASS "C" SIZE 57 STONE BEDDING. 5. DRAINAGE INLET STRUCTURES AND ENDWALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH N.J.D.O.T. STANDARD DETAILS. . INLETS SHALL BE N.J.D.O.T. STANDARD AS SPECIFIED ON PLANS.

ALL INLETS TO HAVE BICYCLE SAFE GRATES. 8. ALL SANITARY SEWER SERVICE AND MAINS SHALL BE IN ACCORDANCE WITH RULES AND REGULATIONS OF THE GLASSBORO WATER AND SEWER OPERATIONS 9. ALL WATER MAIN DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH RULES AND REGULATIONS OF NEW JERSEY AMERICAN WATER. 10. ALL FIRE HYDRANTS SHALL BE INSTALLED AS INDICATED ON THE SITE PLANS. EACH FIRE HYDRANT

LOCATION SHALL BE APPROVED BY THE FIRE MARSHAL. FIRE HYDRANTS SHALL BE MUELLER-CENTURION MODEL A-423 OR APPROVED EQUAL. 11. GAS, ELECTRIC, AND COMMUNICATION SERVICE AND WATER SERVICE SHALL BE INSTALLED UNDERGROUND THROUGHOUT THE DEVELOPMENT IN ACCORDANCE WITH REGULATIONS OF THE LOCAL UTILITY COMPANIES AND BOROUGH OF GLASSBORO. 12. ALL MATERIALS, METHODS AND DETAILS OF IMPROVEMENT CONSTRUCTION SHALL CONFORM TO THE

REGULATIONS OF BOROUGH OF GLASSBORO, GLOUCESTER COUNTY AND/OR THE APPROPRIATE UTILITY COMPANY, WHICHEVER REGULATION TAKES PRECEDENCE. 13. WHERE IT IS NECESSARY TO CONNECT TO EXISTING UTILITIES WITHIN EXISTING ROADWAYS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SAW CUTTING. FOR WATER AND SEWER SERVICE.

TRENCHING, BACKFILL, COMPACTION AND PAVING SHALL BE IN ACCORDANCE WITH BOROUGH OF GLASSBORO AND GLOUCESTER COUNTY SPECIFICATIONS. AS APPLICABLE 14. BEDDING AND BACKFILL FOR THE REINFORCED CONCRETE PIPE SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. 15. CCTV INSPECTION OF THE STORM SEWER SYSTEM, PERFORMED AT NO EXPENSE TO THE BOROUGH, WILL BE SUBMITTED TO THE OWNER. ENGINEER AND BOROUGH OF GLASSBORO AND IS REQUIRED PRIOR TO

FINAL ACCEPTANCE BY THE BOROUGH 16. PIPE LENGTHS AND GRADIENTS ARE CALCULATED TO THE CENTERLINE OF SANITARY AND STORM SEWER STRUCTURES. ACTUAL PIPE LENGTH MAY BE LESS THAN CALCULATED LENGTH, AND SHOULD BE COMPUTED BY CONTRACTOR PRIOR TO CONSTRUCTION. 17. EXISTING UTILITY INFORMATION SHOWN ON THIS PLAN IS FURNISHED BY THE UTILITY COMPANIES OR SURVEY PLAN BY SURVEYOR AND THE ACCURACY THEREOF IS NOT THE RESPONSIBILITY OF MARATHON

ENGINEERING & ENVIRONMENTAL SERVICES, INC. IT IS THE RESPONSIBILITY OF OWNER AND/OR CONTRACTOR TO CALL 1-800-272-1000 FOR FIELD LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

18. PVC SEWER PIPE SHALL HAVE BELL AND SPIGOT ENDS AND 0-RING RUBBER GASKETED JOINTS. PVC PIPE AND FITTINGS SHALL CONFORM TO ASTM D3034, WITH A MINIMUM WALL THICKNESS DESIGNATION OF SCHEDULE 40 AS INDICATED ON THE PLANS FOR 6" SANITARY SEWER LATERAL. 19. THE PLASTIC MATERIAL FROM WHICH THE PIPES AND FITTINGS ARE EXTRUDED SHALL BE IMPACT TYPES OF PVC, UNPLASTICIZED, HAVING A CELL CLASSIFICATION OF 12454 OR 12364 AS DEFINED IN ASTM

20. PIPE SHALL BE FREE FROM DEFECTS, SUCH AS BUBBLES OR OTHER IMPERFECTIONS, IN ACCORDANCE WITH ACCEPTED COMMERCIAL PRACTICE. TEST RESULTS DEMONSTRATING THAT THE PIPE MEETS ASTM D2444 FOR IMPACT AND ASTM D2321 FOR DEFLECTION AND PIPE STIFFNESS SHALL BE PROVIDED WHEN REQUESTED BY THE UTILITY AUTHORITY. 21. JOINTS SHALL CONFORM TO ASTM D3212. RUBBER RING GASKETS SHALL CONFORM TO ASTM F477. THE GASKET SHALL BE THE SOLE ELEMENT DEPENDED UPON TO MAKE THE JOINT WATERTIGHT 22. THE PIPE SHALL BE INSTALLED AS SPECIFIED IN ASTM D2321. BEDDING AND HAUNCHING (TO THE SPRINGLINE) SHALL BE 3/4" CLEAN STONE. SELECT BACKFILL, TO A HEIGHT OF TWO (2) FEET ABOVE SPRINGLINE SHALL BE CLASS II OR CLASS III BACKFILL AS DEFINED IN ASTM D2321 AND SHALL BE TAMPED IN 6" LAYERS. PIPE SHALL BE INSTALLED WITH A MINIMUM COVER OF 48". THE 6" SEWER LATERAL SHALL HAVE 1.0% MINIMUM SLOPE.

E. PLACEMENT OF FILL MATERIAL

1. THE MATERIAL PLACED IN THE FILL AREAS SHALL BE FREE OF DETRIMENTAL AMOUNTS OF SOD, ROOTS, FROZEN SOIL, STONES MORE THAN SIX INCHES IN DIAMETER (EXCEPT ROCK FILLS), AND OTHER OBJECTIONABLE MATERIAL

a. DRAIN FILL SHALL BE KEPT FROM BEING CONTAMINATED BY ADJACENT SOIL MATERIALS DURING PLACEMENT BY EITHER PLACING IT IN A CLEANLY EXCAVATED TRENCH, OR BY KEEPING THE DRAIN AT LEAST ONE FOOT ABOVE THE ADJACENT EARTH FILL. b. SELECTED DRAIN FILL AND BACKFILL MATERIAL SHALL BE PLACED AROUND STRUCTURES, PIPE

CONDUITS, AND ANTI-SEEP COLLARS AT ABOUT THE SAME RATE ON ALL SIDES TO PREVENT DAMAGE FROM UNEQUAL LOADING. FILL MATERIAL SHALL BE PLACED AND SPREAD BEGINNING AT THE LOWEST POINT IN THE FOUNDATION, AND THEN BRINGING IT UP IN CONTINUOUS HORIZONTAL LAYERS THICK ENOUGH THAT THE REQUIRED COMPACTION CAN BE OBTAINED. THE FILL SHALL BE CONSTRUCTED IN CONTINUOUS LAYERS. IF OPENINGS OR SECTIONALIZED FILLS ARE REQUIRED. THE SLOPE OF THE BONDING SURFACES BETWEEN THE EMBANKMENT IN PLACE AND THE EMBANKMENT TO TO BE PLACED SHALL NOT BE STEEPER THAN THE RATIO OF THREE HORIZONTAL TO ONE VERTICAL. THE BONDING SURFACE SHALL BE TREATED THE SAME AS THAT SPECIFIED FOR THE FOUNDATION TO ENSURE A GOOD BOND WITH THE NEW FILL. c. THE DISTRIBUTION AND GRADATION OF MATERIALS SHALL BE SUCH THAT NO LENSES, POCKETS, STREAKS, OR LAYERS OF MATERIAL SHALL DIFFER SUBSTANTIALLY IN TEXTURE OF GRADATION FROM THE SURROUNDING MATERIAL. IF IT IS NECESSARY TO USE MATERIALS OF VARYING TEXTURE AND GRADATION, THE MORE IMPERVIOUS MATERIAL SHALL BE PLACED IN THE CENTER AND UPSTREAM PARTS OF THE FILL. IF ZONED FILLS OF SUBSTANTIALLY DIFFERING MATERIALS ARE SPECIFIED. THE ZONES SHALL BE PLACED ACCORDING TO LINES AND GRADES SHOWN ON THE DRAWINGS. THE COMPLETE WORK SHALL CONFORM TO THE LINES, GRADES, AND ELEVATIONS SHOWN IN THE DRAWINGS OR AS STAKED IN THE FIELD.

d. THE MOISTURE CONTENT OF THE FILL MATERIAL SHALL BE ADEQUATE FOR OBTAINING THE REQUIRED COMPACTION. MATERIAL THAT IS TOO WET SHALL BE DRIED TO MEET THIS REQUIREMENT. AND MATERIAL THAT IS TOO DRY SHALL BE WETTED AND MIXED UNTIL THE REQUIREMENT IS MET. CONSTRUCTION EQUIPMENT SHALL BE OPERATED OVER EACH LAYER OF FILL TO ENSURE THAT THE REQUIRED COMPACTION IS OBTAINED. SPECIAL EQUIPMENT SHALL BE USED IF NEEDED TO OBTAIN THE REQUIRED COMPACTION. IF A MINIMUM REQUIRED DENSITY IS SPECIFIED, EACH LAYER OF FILL SHALL BE COMPACTED AS NECESSARY TO OBTAIN THAT DENSITY. e. FILL ADJACENT TO STRUCTURES, PIPE CONDUITS, AND DRAIN FILL OR ANTI-SEEP COLLARS SHALI BE COMPACTED TO A DENSITY EQUIVALENT TO THAT OF THE SURROUNDING FILL BY HAND TAMPING, OR BY USING MANUALLY DIRECTED POWER TAMPERS OR PLATE VIBRATORS. FILL ADJACENT TO CONCRETE STRUCTURES SHALL NOT BE COMPACTED UNTIL THE CONCRETE HAS HAD TIME TO GAIN ENOUGH STRENGTH TO SUPPORT THE LOAD.



SCALE: 1'' = 500'

SOILS DATA

DouB DOWNER-URBAN LAND COMPLEX FmhAt FLUVAQUENTS, LOAMY, FREQUEN USAURB URBAN LAND-AURA COMPLEX WOODSTOWN-URBAN LAND COMP SOILS OBTAINED FROM NATURAL RESOURCES CONSERVATION SERVICES (NRCS) U.S. DEPARTMENT OF AGRICULTURE. ALL SOIL EROSION AND SEDIMENT CONTROL IMPLEMENTATION SHALL BE IN ACCORDANCE WITH STANDARDS SET FORTH BY THE GLOUCESTER COUNTY SOIL CONSERVATION DISTRICT.

FLOOD DATA

34015C0203E. EFFECTIVE DATE JANUARY 20, 2010.

ANY CONSTRUCTION ON SITE.

OFFICIAL ZONING MAP OF BOROUGH OF GLASSBORO

	0-5% SLOPE	"A" SOILS GROUP
ITLY FLOODED	0-3% SLOPE	"B/D" SOILS GROUP
	0-5% SLOPE	
PLEX	0-5% SLOPE	"B" SOILS GROUP

ALL OF THE SUBJECT PROPERTY IS LOCATED IN FLOOD ZONE X AS SHOWN ON THE NATIONAL FLOOD INSURANCE RATE MAP FOR BOROUGH OF GLASSBORO, GLOUCESTER COUNTY, NEW JERSEY, MAP NUMBER CERTAIN ACTIVITIES IN FLOOD HAZARD AREAS AND RIPARIAN ZONES ARE REGULATED BY THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SOME ACTIVITIES MAY BE PROHIBITED ON THIS SITE OR MAY FIRST REQUIRE A FLOOD HAZARD AREA PERMIT. CONTACT THE DIVISION OF LAND USE REGULATION AT (609) 292-0060 OR WWW.NJ.GOV/DEP/LANDUSE FOR MORE INFORMATION PRIOR TO



OFFICIAL TAX MAP OF BOROUGH OF GLASSBORO SCALE: 1'' = 300'



Know what's **below. Call** before you dig.

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ROWAN U	SHEET S UGH OF GLASS	EDGEWOOD APARTMEN 3.01, BLOCK 388, P/O LOT 2.01 SBORO, GLOUCESTER COUNTY, NEV	T ADDITIONS	MARATHO Engineering & Environmental Serv Swedesboro Office	N	
		VAN UNIVERSITY 201 MULLICA HILL ROAD SSBORO, NEW JERSEY 08028		3 Killdeer Court, Suite 302, Swedesboro, ph (856) 241-9705 fax (856) 241-9 Certificate of Authorization #24GA279	NJ 08085 709 95700	
JE	SSE D	DOUGHERTY, PROFESSIONAL ENGINEER SEY LICENSE NO. 24GE05008100	P.E.	ALL DOCUMENTS PREPARED BY MARATHON ENGINEERING AND ENVIRONMENTAL SERVICES, INC. ARE INSTRUMENTS OF SERVICE IN RESPECT TO THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER TO OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY MARATHON ENGINEERING AND ENVIRONMENTAL SERVICES, INC. FOR THE SPECIFIC PURPOSE INTENDED WILL BE OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO MARATHON SHALL INDEMNIFY AND HOLD HARMLESS MARATHON SHALL INDEMNIFY AND HOLD HARMLESS MARATHON ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING	BY 2 DRAWING NO.	APPROVED JDD SHEET OF 13





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EXISTING TELECOMMUNICATION LINE
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EXISTING GAS VALVE
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PROPOSED SPOT ELEVATION

NOTE

SEE SHEET C1801 FOR LOCATION OF TREE PROTECTION FENCE.

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SEE SHEET C1801 FOR LOCATION OF TREE PROTECTION FENCE.

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NOTE

SEE SHEET C1801 FOR LOCATION OF TREE PROTECTION FENCE.

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EROSION NOTES

- THIS PLAN IS TO BE USED FOR SOIL EROSION AND SEDIMENT CONTROL PURPOSES ONLY.
- BY THE GLOUCESTER COUNTY SOIL CONSERVATION DISTRICT.
- RESTORED TO PRE-DEVELOPMENT CONDITIONS.
- INSPECTION TO CHECK THAT ALL THE PROVISIONS OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN HAVE BEEN COMPLIED WITH FOR PERMANENT MEASURES. 7. SEE DRAWING NUMBER C1301 FOR SOIL EROSION AND SEDIMENT CONTROL NOTES.

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SOIL DE-COMPACTION AND TESTING REQUIREMENTS

SOIL COMPACTION TESTING REQUIREMENTS

COMPACTION TESTING METHODS

A DRY WEIGHT, SOIL BULK DENSITY MEASUREMENT MAY BE ALLOWED SUBJECT TO DISTRICT APPROVAL.

MINIMUM DPETH) OR SIMILAR) IS PROPOSED AS PART OF THE SEQUENCE OF CONSTRUCTION.

PROCEDURES SHALL BE USED TO MITIGATE EXCESSIVE SOIL COMPACTION PRIOR TO PLACEMENT OF TOPSOIL AND ESTABLISHMENT OF PERMANENT VEGETATIVE COVER.

RESTORATION OF COMPACTED SOILS SHALL BE THROUGH DEEP SCARIFICATION/TILLAGE (6" MINIMUM DEPTH) WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLE, IRRIGATION SYSTEMS, ETC.). IN THE ALTERNATIVE, ANOTHER METHOD AS SPECIFIED BY A NEW JERSEY LICENSED PROFESSIONAL ENGINEER MAY BE SUBSTITUTED AND SUBJECT TO DISTRICT APPROVAL

<u>LEGEND</u>

G	ENERAL NOTES
	THE SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY LAND DISTURBANCE.
	GLOUCESTER COUNTY SOIL CONSERVATION DISTRICT 545 BECKETT ROAD, SUITE 107 SWEDESBORO, NJ 08085 PHONE (856) 589–5250
2.	SOIL EROSION AND SEDIMENT CONTROL PRACTICES ON THIS PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY.
3.	A COPY OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN INCLUDING REVISION THEREOF MUST BE MAINTAINED ON THE PROJECT SITE DURING CONSTRUCTION.
	IN NO OVER OWNER THE OFFICIATION OF THE PROTECT BY THE DISTRICT EVITEND REVEND THREE AND ONE HAVE VERDED OF THE OF

4. IN NO CASE SHALL THE CERTIFICATION OF THE PROJECT BY THE DISTRICT EXTEND BEYOND THREE AND ONE HALF YEARS OF THE ORIGINAL CERTIFICATION DATE. 5. PRIOR TO ANY GRADING OPERATION AND/OR INSTALLATION OF PROPOSED STRUCTURES OR UTILITIES, A NJDEP'S REQUEST FOR AUTHORIZATION ("RFA") FORM FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY MUST BE FILED WITH NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION ("NJDEP") IF THE CONSTRUCTION WILL DISTURB MORE THAN ONE ACRE. THE APPLICATION

MUST BE COMPLETED BY THE ENTITY RESPONSIBLE FOR MAINTENANCE OF SOIL EROSION CONTROL MEASURES DURING CONSTRUCTION, TYPICALLY THE DEVELOPER OR CONTRACTOR. THE APPLICATION IS A SIMPLE FORM FILED ON THE NJDEP WEBSITE USING PROJECT CODES PROVIDED BY THE SOIL CONSERVATION DISTRICT. IF REQUIRED, THE ENGINEER WILL ASSIST THE DEVELOPER OR CONTRACTOR BY PROVIDING TECHNICAL INFORMATION TO COMPLETE THE APPLICATION. 6. ALL APPLICABLE SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN PLACE PRIOR TO ANY GRADING OPERATION AND/OR INSTALLATION OF PROPOSED STRUCTURES OR UTILITIES.

7. ANY CHANGES TO THE SITE PLAN WILL REQUIRE THE SUBMISSION OF A REVISED SOIL EROSION AND SEDIMENT CONTROL PLAN TO THE DISTRICT. THE REVISED PLAN MUST BE IN ACCORDANCE WITH THE CURRENT NEW JERSEY STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL

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. 9. THE DISTRICT MAY REQUIRE ADDITIONAL SOIL EROSION MEASURES TO BE INSTALLED, AS DETERMINED BY THE DISTRICT

10. OFFSITE LAND DISTURBANCE MAY REQUIRE ADDITIONAL SOIL EROSION AND SEDIMENT CONTROL MEASURES TO BE DETERMINED BY THE

11. STAGED CONSTRUCTION METHODS TO MINIMIZE EXPOSED SURFACES, WHERE APPLICABLE.

12. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT STORMWATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.

13. SOIL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS AND AFTER EVERY STORM 14. APPLICABLE SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE LEFT IN PLACE UNTIL CONSTRUCTION IS COMPLETED AND/OR

THE AREA IS STABILIZED. 15. NJSA 4:24-39, ET SEQ., REQUIRES THAT NO CERTIFICATE OF OCCUPANCY, TEMPORARY OR PERMANENT, BE ISSUED BEFORE ALI PROVISIONS OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN HAVE BEEN COMPLIED WITH 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. INSPECTION FOR THE CERTIFICATE OF OCCUPANCY MUST BE SCHEDULED AT LEAST A WEEK IN ADVANCE.

16. NJSA 4:24-39, ET SEQ., REQUIRES THAT UPON PERMANENT SITE STABILIZATION AND COMPLETION OF THE CONTRACTOR SHALL APPLY TO THE DISTRICT FOR FINAL COMPLIANCE INSPECTION TO CHECK THAT ALL THE PROVISIONS OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN HAVE BEEN COMPLIED WITH FOR PERMANENT MEASURES. 17. ANY CONVEYANCE OF THIS PROJECT, OR PORTION THEREOF, PRIOR TO ITS COMPLETION WILL TRANSFER FULL RESPONSIBILITY FOR

COMPLIANCE WITH THE CERTIFIED PLAN TO ANY SUBSEQUENT OWNERS. THE DISTRICT MUST BE NOTIFIED IN WRITING OF ANY CHANGE IN OWNERSHIP 18. 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. THE PAD MUST BE 100 FEET IN LENGTH AND THE STONE MUST BE 1.5 – 4 INCHES IN 5IZE, PLACED 12" THICK AND THE FULL WIDTH OF THE ENTRANCE. THE PAD SHALL BE UNDERLAII WITH A SUITABLE SYNTHETIC FILTER FABRIC AND MAINTAINED. IF A CONSTRUCTION ACCESS IS TO BE USED AS AN EXIT ONTO A MAJOR HIGHWAY, A THIRTY (30) PAVED TRANSITION AREA SHALL BE INSTALLED. CONSTRUCTION ACCESS ONTO INDIVIDUAL LOTS MUST BE STABILIZED WITH 2.5" CRUSHED STONE OR SUBBASE.

19. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.

20. ALL CATCH BASIN INLETS WILL BE PROTECTED ACCORDING TO THE CERTIFIED PLAN.

21. ALL STORM DRAINAGE OUTLETS SHALL BE STABILIZED AS REQUIRED BEFORE THE DISCHARGE POINT BECOMES OPERATION. 22. NATURAL VEGETATION AND SPECIES SHALL BE RETAINED WHERE SPECIFIED ON THE LANDSCAPE PLAN.

23. ADJOINING PROPERTIES SHALL BE PROTECTED FROM EXCAVATION AND FILLING OPERATIONS ON THE CONSTRUCTION SITE. 24. THE DEVELOPER SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR

OFFSITE AS A RESULT OF CONSTRUCTION OF THE PROJECT. 25. 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 PILE WITH STRAW MULCH FOR PROTECTION IF THE SEASON DOES NOT PERMIT THE APPLICATION AND ESTABLISHMENT OF TEMPORARY SEEDING.

26. 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 SEDIMENT BARRIER.

27. MAXIMUM SIDE SLOPES OF ALL EXPOSED SURFACES SHALL NOT BE CONSTRUCTED STEEPER THAN 3:1 UNLESS OTHERWISE APPROVED BY THE SOIL CONSERVATION DISTRICT. 28. ALL CRITICAL AREAS SUBJECT TO SOIL EROSION WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH AT A RATE OF

92 POUNDS PER 1,000 SQUARE FEET ACCORDING TO THE NEW JERSEY STANDARDS IMMEDIATELY FOLLOWING ROUGH GRADING. 29. 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 30. MAXIMUM SIDE SLOPES OF ALL EXPOSED SURFACES SHALL NOT BE CONSTRUCTED STEEPER THAN 3:1 UNLESS OTHERWISE APPROVED BY THE SOIL CONSERVATION DISTRICT.

31. ANY DISTURBED AREA THAT IS TO BE LEFT EXPOSED FOR MORE THAN THIRTY (30) 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 IN ACCORDANCE WITH THE TEMPORARY SEEDING SPECIFICATION. IF THE SEASON PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREAS WILL BE MULCHED WITH SALT HAY OR THE EQUIVALENT AND ANCHORED IN ACCORDANCE WITH THE NEW JERSEY STANDARDS (I.E. PEG AND TWINE, MULCH NETTING OR LIQUID MULCH BINDER).

32. MULCHING IS REQUIRED ON ALL SEEDED AREAS TO ENSURE AGAINST SOIL EROSION BEFORE GRASS IS ESTABLISHED TO PROMOTE EARLIER VEGETATION COVER.

33. 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 SOIL CONSERVATION DISTRICT.

34. ALL VEGETATIVE MATERIAL SHALL BE SELECTED IN ACCORDANCE WITH AMERICAN STANDARDS FOR NURSERY STOCK OF THE AMERICAN ASSOCIATION OF THE NURSERYMEN AND IN ACCORDANCE WITH THE NEW JERSEY STANDARDS.

35. ALL DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTER AREA. THE SEDIMENT FILTER SHOULD BE COMPOSED OF A SUITABLE FILTER FABRIC. (SEE DETAIL) THE SEDIMENT FILTER MUST BE CAPABLE OF FILTERING THE SEDIMENT AND BE PLACED SO AS NOT TO CAUSE EROSION OF THE DOWNSTREAM AREA. FIELD PLACEMENT AND USE OF THE STRUCTURE MUST BE APPROVED BY THE DISTRICT PRIOR TO COMMENCEMENT OF DEWATERING ACTIVITIES. THE WATER QUALITY BASIN MUST BE DEWATERED TO NORMAL POOL WITHIN 10 DAYS OF THE DESIGN STORM.

36. DUST IS TO BE CONTROLLED BY AN APPROVED METHOD ACCORDING TO THE NEW JERSEY STANDARDS AND INCLUDE WATERING WITH A SOLUTION OF CALCIUM CHLORIDE AND WATER.

37. METHODS FOR THE MANAGEMENT OF HIGH ACID-PRODUCING SOILS SHALL BE IN ACCORDANCE WITH THE NEW JERSEY STANDARDS. HIGH ACID-PRODUCING SOILS ARE THOSE FOUND TO CONTAIN IRON SULFIDES OR HAVE A PH OF 4 OR LESS. WORK HOURS AND NOISE CONTROL

1. CONSTRUCTION HOURS

A. MONDAY THRU FRIDAY: 7:00AM-6:00PM

B. SATURDAY: 8:00AM-4:30PM

C. SUNDAY: NO WORK TO BE PERFORMED

D. THE HOURS STATED SHALL BE ADHERED TO UNLESS DUE TO WEATHER AND OR SCHEDULE CHANGES. THE BOROUGH OF GLASSBORO SHALL BE NOTIFIED OF ALL TIME CHANGES. 2. NOISE CONTROL EQUIPMENT TO BE UTILIZED SHALL BE STANDARD EARTH MOVING EQUIPMENT, CRANES, MIXERS, ETC. WHICH MEET STANDARDS ESTABLISHED BY STATE AND FEDERAL LAWS REGARDING THE AMOUNT OF NOISE PRODUCED.

DETAILED CONSTRUCTION SEQUENCE 1. CONSTRUCT TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES 1 WEEK A. PLACE SILT FENCE WHERE INDICATED ON PLANS B. INSTALL TREE PROTECTION FENCE WHERE INDICATED ON PLANS 2. CLEAR, GRUB, AND ROUGH GRADE CONSTRUCTION AREA 1 WEEK

3. BEGIN GRADING 2 WEEKS 16 WEEKS 4. CONSTRUCT BUILDINGS AND UNDERGROUND UTILITIES 1 WEEK 5. CONSTRUCT SIDEWALKS 1 WEEK 6. ESTABLISH FINAL GRADING AND PERMANENT COVER 7. REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES 1 WEEK

TEMPORARY AND PERMANENT STABILIZATION

STABILIZATION COVER SHALL BE ACCOMPLISHED BY THE FOLLOWING METHODS AND MATERIALS:

A. SITE PREPARATION

1) PREPARE SUBGRADE AS NEEDED AND FEASIBLE TO ALLOW USE OF CONVENTIONAL EQUIPMENT FOR TOPSOILING, SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING.

2) INSTALL NEEDED SOIL EROSION CONTROL PRACTICES OR MEASURES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS.

3) THE SUBGRADE SHALL BE FREE OF EXCESSIVE COMPACTION TO A DEPTH OF 6 INCHES TO ENHANCE THE ESTABLISHMENT OF VEGETATIVE COVER. IF TESTING INDICATES EXCESSIVE SUBGRADE COMPACTION, THE SUBGRADE SHALL BE DE-COMPACTED TO A DEPTH OF 6 INCHES PRIOR TO THE APPLICATION OF TOPSOIL. THE SUBGRADE SHALL BE SCARIFIED TO A DEPTH OF 6" TO 12" WHERE THERE HAS BEEN EXCESSIVE SOIL COMPACTION. THIS PRACTICE IS PERMISSIBLE ONLY IN AREAS WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.).

4) THE SUBGRADE SHALL BE TESTED TO DETERMINE WHETHER COMPACTION EXCEEDS THE MAXIMUM THRESHOLDS INDICATED FOR THE SIMPLIFIED TESTING METHODS. THE TEST SHALL BE PREFORMED AT ONE-HALF ACRE INTERVALS FOR SITES ONE ACRE OR MORE. FOR SITES LESS THAN ONE ACRE, AT LEAST TWO TESTS ARE REQUIRED REGARDLESS OF THE SIZE. CONTIGUOUS AREAS OF 500 SQUARE FEET OR LESS ARE EXEMPT FROM TESTING OR REMEDIATION. COMPACTION TESTING METHODS SHALL INCLUDE (1) PROBING WIRE TEST, (2) HAND-HELD PENETROMETER TEST, (3) TUBE BULK DENSITY TEST, OR (4) NUCLEAR DENSITY TEST. THE MAXIMUM THRESHOLD FOR THE PROBING WIRE TEST IS DETERMINED IF A 15 GAUGE WIRE BENDS WHEN INSERTED INTO THE SUBGRADE TO A DEPTH OF 6 INCHES OR FOR THE PENETROMETER TEST IF THE PRESSURE AT A DEPTH OF 6 INCHES IS 300 PSI OR MORE. IF COMPACTION EXCEEDS THE MAXIMUM THRESHOLD, THE CONTRACTOR SHALL HAVE THE OPTION TO PERFORM EITHER (1) COMPACTION MITIGATION OVER THE ENTIRE MITIGATION AREA, OR (2) PERFORM ADDITIONAL MORE DETAILED TESTING TO ESTABLISH THE LIMITS OF EXCESSIVE COMPACTION WHEREUPON ONLY THE EXCESSIVELY COMPACTED AREAS WOULD REQUIRE COMPACTION MITIGATION. ADDITIONAL DETAILED TESTING SHALL BE PERFORMED BY A TRAINED, LICENSED PROFESSIONAL.

B. STRIPPING AND STOCKPILING

1) FIELD EXPLORATION SHOULD BE MADE TO DETERMINE WHETHER QUANTITY AND/OR QUALITY OF SURFACE SOIL JUSTIFIES STRIPPING.

2) STRIPPING SHOULD BE CONFINED TO THE IMMEDIATE CONSTRUCTION AREA.

3) WHERE FEASIBLE, LIME MAY BE APPLIED BEFORE STRIPPING AT A RATE DETERMINED BY SOIL TEST TO BRING THE SOIL PH TO APPROXIMATELY 6.5. IN LIEU OF SOIL TEST, SEE LINE RATE GUIDE IN SEEDBED PREPARATION.

SOIL TEX

SANDY L LOAMY S

CLAY, CL

<u>#15 MIX1</u> HARD FE CHEWING STRONG PERENNIA

<u>#11 MIXTU</u> KENTUCK TURF-TY

MULCH AS SPECIFIED ABOVE.

I. SODDING

ABOVE SOD PLACEMENT:

A) SOD STRIPS SHOULD BE LAID ON THE CONTOUR, NEVER UP AND DOWN THE SLOPE, STARTING AT THE BOTTOM OF THE SLOPE AND WORKING UP. ON STEEP SLOPES, THE USE OF LADDERS WILL FACILITATE THE WORK AND PREVENT DAMAGE TO THE SOD. DURING PERIODS OF HIGH TEMPERATURE, LIGHTLY IRRIGATE THE SOIL IMMEDIATELY PRIOR TO LAYING THE SOD. B) PLACE SOD STRIPS WITH SNUG, EVEN JOINTS THAT ARE STAGGERED. OPEN SPACES INVITE EROSION.

C) ROLL OR TAMP SOD IMMEDIATELY FOLLOWING PLACEMENT TO INSURE SOLID CONTACT OF ROOT MAT AND SOIL SURFACE. DO NOT OVERLAP SOD. ALL JOINTS SHOULD BE BUTTED TIGHTLY IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE DRYING OF THE ROOTS. D) ON SLOPES GREATER THAN 3:1, SECURE SOD TO SURFACE SOIL WITH WOOD PEGS, WIRE STAPLES, OR SPLIT SHINGLES (8" TO 10" LONG BY 3/4" WIDE). SURFACE WATER CANNOT ALWAYS BE DIVERTED FROM FLOWING OVER THE FACE OF THE SLOPE, BUT A CAPPING STRIP OF

HEAVY JUTE OR PLASTIC NETTING, PROPERLY SECURED, ALONG THE CROWN OF THE SLOPE AND EDGES WILL PROVIDE EXTRA PROTECTION AGAINST LIFTING AND UNDERCUTTING OF SOD. THE SAME TECHNIQUE CAN BE USED TO ANCHOR SOD IN WATER-CARRYING CHANNELS AND OTHER CRITICAL AREAS. WIRE STAPLES MUST BE USED TO ANCHOR NETTING IN CHANNEL WORK E) IMMEDIATELY FOLLOWING INSTALLATION, SOD SHOULD BE WATERED UNTIL MOISTURE PENETRATES THE SOIL LAYER BENEATH SOD

TO A DEPTH OF 4 INCHES. MAINTAIN OPTIMUM MOISTURE FOR AT LEAST TWO WEEKS. F) TOPDRESSING - IF SLOW RELEASE NITROGEN (300 POUNDS 38-0-0 PER ACRE OR EQUIVALENT) IS USED IN ADDITION TO SUGGESTED FERTILIZER, THEN A FOLLOW-UP OF TOPDRESSING IS NOT MANDATORY. FALL INSTALLATION OF SOD WILL REQUIRE AN APPLICATION OF FERTILIZER SUCH AS 10-20-10 OR EQUIVALENT AT 400 POUNDS PER ACRE OR 10 POUNDS PER 1,000 SQUARE FEET BETWEEN SEPTEMBER 1 AND OCTOBER 15. MANAGEMENT OF HIGH ACID-PRODUCING SOILS

METHODS AND MATERIALS OF MANAGING HIGH ACID-PRODUCING SOILS

6. TOPSOIL STRIPPED FROM THE SITE SHALL BE STORED SEPARATELY FROM TEMPORARILY STOCKPILED HIGH ACID-PRODUCING SOILS. 7. STOCKPILES OF HIGH ACID-PRODUCING SOIL SHOULD BE LOCATED ON LEVEL LAND TO MINIMIZE ITS MOVEMENT, ESPECIALLY WHEN THIS MATERIAL HAS A HIGH CLAY CONTENT.

8. TEMPORARILY STOCKPILED HIGH ACID-PRODUCING SOIL MATERIAL TO BE STORED MORE THAN 48 HOURS SHOULD BE COVERED WITH PROPERLY ANCHORED, HEAVY GRADE SHEETS OF POLYETHYLENE WHERE POSSIBLE. IF NOT POSSIBLE, STOCKPILES SHALL BE COVERED WITH A MINIMUM OF 3 TO 6 INCHES OF WOOD CHIPS TO MINIMIZE EROSION OF THE STOCKPILE. SILT FENCE SHALL BE INSTALLED AT THE TOE OF THE SLOPE TO CONTAIN MOVEMENT OF THE STOCKPILED MATERIAL. TOPSOIL SHALL NOT BE APPLIED TO THE STOCKPILES TO PREVENT TOPSOIL CONTAMINATION WITH HIGH ACID-PRODUCING SOIL.

EXCEPT AS FOLLOWS:

4) A 4 TO 6 INCH STRIPPING DEPTH IS COMMON, BUT MAY VARY DEPENDING ON THE PARTICULAR SOIL.

5) STOCKPILES OF TOPSOIL SHOULD BE SITUATED SO AS NOT TO OBSTRUCT NATURAL DRAINAGE OR CAUSE OFF-SITE ENVIRONMENTAL

6) STOCKPILES OF TOPSOIL SHOULD BE VEGETATED IN ACCORDANCE WITH STANDARDS FOR PERMANENT OR TEMPORARY STABILIZATION. WEEDS SHOULD NOT BE ALLOWED TO GROW ON STOCKPILES.

C. TOPSOILING - THE CONTRACTOR SHALL PREPARE AREAS TO BE STABILIZED WITH PERMANENT VEGETATIVE COVER BY APPLYING TOPSOIL TO A UNIFORM DEPTH OF 6 INCHED. TOPSOIL SHOULD BE FRIABLE, LOAMY, FREE OF DEBRIS, OBJECTIONABLE WEEDS AND TONES, AND CONTAIN NO TOXIC SUBSTANCE OR ADVERSE CHEMICAL OR PHYSICAL CONDITION THAT MAY BE HARMFUL TO PLAN GROWTH. SOLUBLE SALTS SHOULD NOT BE EXCESSIVE (CONDUCTIVITY LESS THAN 0.5 MILLIMHOS PER CENTIMETER. MORE THAN 0.5 MILLIMHOS MAY DESICCATE SEEDLINGS AND ADVERSELY IMPACT GROWTH). TOPSOIL HAULED IN FROM OFFSITE SHOULD HAVE A MINIMUM ORGANIC MATTER CONTENT OF 2.75 PERCENT. ORGANIC MATTER CONTENT MAY BE RAISED BY ADDITIVES.

TOPSOIL SUBSTITUTES MAY BE UTILIZED ON SITES WITH INSUFFICIENT TOPSOIL FOR ESTABLISHING PERMANENT VEGETATION. TOPSOIL SUBSTITUTE IS A SOIL MATERIAL WHICH MAY HAVE BEEN AMENDED WITH SAND, SILT, CLAY, ORGANIC MATTER, FERTILIZER OR LIME AND HAS THE APPEARANCE OF TOPSOIL ALL TOPSOIL SUBSTITUTE MATERIALS SHALL MEET THE REQUIREMENTS OF TOPSOIL NOTED ABOVE SOIL TESTS SHALL BE PERFORMED TO DETERMINE THE COMPONENTS OF SAND, SILT, CLAY, ORGANIC MATTER, SOLUBLE SALTS AND PH

D. SEEDBED PREPARATION - APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TESTS SUCH AS THOSE OFFERED BY RUTGERS UNIVERSITY SOIL TESTING LABORATORY. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL COOPERATIVE EXTENSION SERVICE OFFICE. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, THE CONTRACTOR MAY APPLY PULVERIZED DOLOMITIC LIMESTONE AT THE RATE OF 90 POUNDS PER 1,000 SQUARE FEET. APPLY 10-20-10 FERTILIZER OR EQUIVALENT AT THE RATE OF 11 POUNDS PER 1000 SQUARE FEET. IN ADDITION, 300 POUNDS 38-0-0 PER ACRE OR EQUIVALENT OF SLOW RELEASE NITROGEN MAY BE USED IN LIEU OF TOPDRESSING. APPLY LIMESTONE (EQUIVALENT TO 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDES) AS FOLLOWS:

TURE_	TONS / ACR
AY LOAM & HIGH ORGANIC SOI	L 4
OAM, LOAM & SILT LOAM	3
AND, SAND	2

THE LIME AND FERTILIZER SHALL THEN BE "WORKED" INTO THE SOIL TO A DEPTH OF 4" WITH A DISC, SPRINGTOOTH HARROW OR OTHER SUITABLE EQUIPMENT.

E. TEMPORARY VEGETATION SEEDING - ESTABLISH TEMPORARY VEGETATIVE COVER ON SOILS EXPOSED FOR PERIODS OF TWO TO SIX MONTHS WHICH ARE NOT BEING GRADED, NOT UNDER ACTIVE CONSTRUCTION OR NOT SCHEDULED FOR PERMANENT SEEDING WITHIN 60 DAYS. SEEDING SHALL CONSIST OF PERENNIAL RYEGRASS APPLIED AT THE RATE OF 1 POUND PER 1,000 SQUARE FEET DURING COOL SEASON OR WEEPING LOVEGRASS AT 5 LBS. PER ACRE DURING WARM SEASON PLANTING.

F. PERMANENT VEGETATION SEEDING - IMMEDIATELY FOLLOWING THE COMPLETION OF CONSTRUCTION ACTIVITIES AT THE SITE, THE CONTRACTOR SHALL STABILIZE WITH PERMANENT VEGETATIVE COVER, ALL EXPOSED AND DISTURBED SOILS.

<u>URE (LAWN)</u>	LBS/ACRE	<u>LBS/1000 S.F.</u>
SCUE	130	3.00
FESCUE	45	1.00
CREEPING RED FESCUE	45	1.00
L RYEGRASS	10	0.25
<u>JRE (BASIN& SWALE)</u>	LBS/ACRE	<u>LBS/1000 S.F.</u>
Y BLUEGRASS	45	1.00
PE TALL FESCUE	22	0.50

IF HYDROSEEDING IS USED ALL SEEDING RATES SHALL BE INCREASED BY 25%. IF SODDING IS USED SEE SOD SPECIFICATIONS. G. SEEDING DATES - SEEDING DATES FOR VEGETATION SHALL OCCUR BETWEEN MARCH 1 AND APRIL 30 (OPTIMAL PLANTING PERIOD) OR BETWEEN AUGUST 15 AND NOVEMBER 15. IF SEED IS NOT PLANTED WITHIN THESE DATES, THE CONTRACTOR SHALL STABILIZE WITH

H. MULCHING - THE CONTRACTOR SHALL MULCH ALL NEWLY SEEDED AREAS WITH UNROTTED SMALL GRAIN STRAW OR HAY FREE OF SEEDS AT THE RATE OF 70 TO 90 POUNDS PER 1,000 SQUARE FEET. IT SHALL BE ANCHORED THROUGH THE USE OF THE PEG AND FWINE METHOD. THE PEG AND TWINE METHOD OF MULCH ANCHORING SHALL CONSIST OF DRIVING 8-10 INCH WOODEN PEGS TO WITHIN 2-3 INCHES OF THE SOIL SURFACE EVERY 4 FEET IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH. SECURE MULCH TO SOIL SURFACE BY STRETCHING TWINE BETWEEN PEGS IN A CRISSCROSS AND A SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH TWO OR MORE ROUND TURNS.

1) CULTIVATED SOD IS PREFERRED OVER NATIVE SOD. SPECIFY "CERTIFIED SOD", OR OTHER HIGH QUALITY CULTIVATED SOD. SOD SHOULD BE FREE OF WEEDS AND UNDESIRABLE COARSE WEEDY GRASSES. SOD SHOULD BE OF UNIFORM THICKNESS APPROXIMATELY 5/8 INCH, PLUS OR MINUS 1/4 INCH, AT TIME OF CUTTING. (EXCLUDES TOP GROWTH). SOD SHOULD BE VIGOROUS AND DENSE AND BE ABLE TO RETAIN ITS OWN SHAPE AND WEIGHT WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP FROM TH UPPER 10 PERCENT OF THE STRIP. BROKEN PADS OR TORN OR UNEVEN ENDS WILL NOT BE ACCEPTED. FOR DROUGHTY SITES, A SOD OF KENTUCKY 31 TALL FESCUE AND BLUEGRASS IS PREFERRED OVER A STRAIGHT BLUEGRASS SOD. ONLY MOIST, FRESH, UNHEATED SOD SHOULD BE USED. SOD SHOULD BE HARVESTED, DELIVERED AND INSTALLED WITHIN A PERIOD OF 36 HOURS.

2) REMOVE FROM THE SURFACE ALL OBJECTS THAT WOULD PREVENT GOOD SOD TO SOIL CONTACT AND REMOVE ALL OTHER DEBRIS SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, CLODS, LUMPS OR OTHER UNSUITABLE MATERIAL. 3) INSPECT SITE JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RE-TILLED AND FIRMED AS

HIGH ACID-PRODUCING SOILS ARE SOILS WITH A PH OF 4.0 OR LESS OR CONTAIN IRON SULFIDE. HIGH ACID-PRODUCING SOILS MAY BE PRESENT IN UNDISTURBED SOILS AT VARYING DEPTHS, INCLUDING NEAR THE SOIL SURFACE TO EXCAVATIONS OR DEEP DISTURBANCES. ITS PRESENCE ON A SITE MAY BE SIGNIFICANT OR LIMITED IN THE SOIL PROFILE. HIGH ACID-PRODUCING SOILS ARE COMMONLY BLACK. DARK BROWN. GRAY OR GREENISH WITH SILVERY PYRITE OR MARCASITE NUGGETS OR FLAKES. ALTERNATIVELY, SANDY SOILS OR REDDISH, YELLOWISH OR LIGHT TO MEDIUM BROWN SOIL MATERIALS ARE USUALLY FREE OF HIGH ACID-PRODUCING DEPOSITS

TO PREVENT OR LIMIT EXPOSURE AREA, TIME, AND SPREADING BY EQUIPMENT OR RAINFALL ON- AND OFF-SITE AND TO MINIMIZE EROSION, SEDIMENTATION AND ACID LEACHATE-RELATED DAMAGES. HIGH ACID-PRODUCING SOIL MAY BE EXPOSED DURING EXCAVATION AND LAND GRADING ACTIVITIES, OR MAY BE INTRODUCED IN DREDGED SEDIMENT, SOILS AND SEDIMENT CONTAINING IRON SULFIDE, CHARACTERIZED BY PYRITE OR MARCASITE NUGGETS OR GREENSANDS, ARE CHEMICALLY OXIDIZED WHEN EXPOSED TO AIR, PRODUCING SULFURIC ACID AND RESULT IN SOIL PH LEVELS FALLING TO PH 4.0 AND LOWER. MOST VEGETATION IS INCAPABLE OF GROWTH AT THIS PH LEVEL. ADJACENT LAND ANI RECEIVING WATERS WILL BE NEGATIVELY IMPACTED BY THE ACID LEACHATE. CALCIUM-CONTAINING MATERIALS SUCH AS SIDEWALKS, CULVERTS AND OTHER STRUCTURES AND SOME METALLIC MATERIALS ARE ALSO SUSCEPTIBLE TO DEGRADATION. AGRICULTURAL LIMESTONE MATERIALS APPLIED AT RATES OF 8 TONS PER ACRE HAVE RESULTED IN ONLY A TEMPORARY BUFFERING EFFECT, AND "LIMING-ONLY" IS THEREFORE NOT CONSIDERED AN ACCEPTABLE MITIGATION PRACTICE.

5. LIMIT THE EXCAVATION AREA AND EXPOSURE TIME WHEN HIGH ACID-PRODUCING SOILS ARE ENCOUNTERED.

9. HIGH ACID-PRODUCING SOILS WITH A PH OF 4.0 OR LESS OR CONTAINING IRON SULFIDE (INCLUDING BORROW FROM CUTS OR DREDGED SEDIMENT) SHALL BE ULTIMATELY PLACED OR BURIED WITH LIMESTONE APPLIED AT THE RATE OF 10 TONS PER ACRE (OR 450 POUNDS PER 1,000 SQUARE FEET OF SURFACE AREA) AND COVERED WITH A MINIMUM OF 12 INCHES OF SETTLED SOIL WITH A PH OF 5.0 OR MORE E. AREAS WHERE TREES OR SHRUBS ARE TO BE PLANTED SHALL BE COVERED WITH A MINIMUM OF 24 INCHES OF SOIL WITH A PH OR 5 F. DISPOSAL AREAS SHALL NOT BE LOCATED WITHIN 24 INCHES OF ANY SURFACE OF A SLOPE OR BANK, SUCH AS BERMS, STREAM BANKS, DITCHES, AND OTHERS, TO PREVENT POTENTIAL LATERAL LEACHING DAMAGES. 6. EQUIPMENT USED FOR MOVEMENT OF HIGH ACID-PRODUCING SOILS SHOULD BE CLEANED AT THE END OF EACH DAY TO PREVENT SPREADING OF HIGH ACID-PRODUCING SOIL MATERIALS TO OTHER PARTS OF THE SITE, INTO STREAMS OR STORMWATER CONVEYANCES, AND TO PROTECT MACHINERY FROM ACCELERATED RUSTING.

. NON-VEGETATIVE EROSION CONTROL PRACTICES (STONE TRACKING PADS, STRATEGICALLY PLACED LIMESTONE CHECK DAM, SEDIMENT BARRIER, WOOD CHIPS) SHOULD BE INSTALLED TO LIMIT THE MOVEMENT OF HIGH ACID-PRODUCING SOILS FROM, AROUND, OR OFF THE

8. FOLLOWING BURIAL OR REMOVAL OF HIGH ACID-PRODUCING SOIL. TOPSOILING AND SEEDING OF THE SITE (SEE TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION, PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION, AND TOPSOILING), MONITORING MUST CONTINUE FOR A MINIMUM OF 6 MONTHS TO ENSURE THERE IS ADEQUATE STABILIZATION AND THAT NO HIGH ACID-PRODUCING SOIL PROBLEMS EMERGE. IF PROBLEMS STILL EXIST, THE AFFECTED AREA MUST BE TREATED AS INDICATED ABOVE TO CORRECT THE PROBLEM.

DUST CONTROL:

DUST CONTROL SHALL BE ACCOMPLISHED BY THE METHODS DESCRIBED BELOW.				
MATERIAL	WATER DILUTION	TYPE OF NOZZLE	APPLY GALLONS/AC	
ANIONIC ASPHALT EMULSION	7:1	COARSE SPRAY	1200	
LATEX EMULSION	12,5:1	FINE SPRAY	235	
RESIN IN WATER	4: 1	FINE SPRAY	300	
POLYACRYLAMIDE (PAM) – SPRAY ON POLYACRYLAMIDE (PAM) – DRY SPREAD	APPLY ACCORDING TO MANUFACTURER'S INSTRUCTIONS. MAY ALSO BE USED AS AN ADDITIVE TO SEDIMENT BASINS TO FLOCCULATE AND PRECIPITATE SUSPENDED COLLOIDS. SEE SEDIMENT BASIN STANDARD, P. 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 PLACED 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 SOIL BLOWING. CALCIUM CHLORIDE: SHALL BE IN THE FORM OF LOOSE, DRY GRANULES OR 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.

ACIDIC SUBSOIL MITIGATION STANDARDS

- CONDUCT OF THE PROJECT.
- 2. CONSTRUCTION SCHEDULES SHOULD BE FORMULATED TO PROVIDE MINIMUM PRACTICABLE EXPOSURE OF ACID-PRODUCING DEPOSITS.
- ACID-PRODUCING DEPOSITS SHALL BE INCLUDED IN THIS STOCKPILE.
- 4. ACID-PRODUCING DEPOSITS (INCLUDING SOIL CONTAMINATED WITH SUCH DEPOSITS AND CONTAMINATED SOIL WASHED FROM CONSTRUCTION
- THE WATERCOURSE.
- 6. EVERY EFFORT SHOULD BE MADE TO MINIMIZE THE SPREADING OR MIXING OF ACID-PRODUCING DEPOSITS (INCLUDING SOIL CONTAMINATED MOVEMENT OF ACID-PRODUCING MATERIAL INTO WATERCOURSES OR ONTO CONTAMINATED SOIL.
- 7. EXCAVATED MATERIAL SHOULD BE RETURNED TO TRENCHES OR PITS IN THE ORDER OF ITS REMOVAL, I.E., LOWER MATERIAL FIRST,
- TEMPORARY VEGETATIVE COVER SHOULD NOT BE USED FOR STABILIZATION OF ACID-PRODUCING DEPOSITS UNLESS THE LIMING AND BUT RATHER TO THE TOPSOIL APPLIED TO COVER SUCH DEPOSITS.)
- PERMANENT VEGETATION SHOULD BE ESTABLISHED AS SOON AS POSSIBLE. TAKING INTO ACCOUNT THE SIX WEEKS THAT MAY BE NEEDED SEEDING SHOULD ALWAYS BE ACCOMPANIED BY MULCHING.
- 10. IN ADDITION TO THE ABOVE REQUIREMENTS, THE "STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL" SHOULD BE MET.

MITIGATION PROCEDURES ALONG WATERCOURSE CHANNELS IF CONSTRUCTION EXPOSES ACID-PRODUCING DEPOSITS (TO AIR OR SURFACE WATERS) WITHIN WATERCOURSE CHANNELS OR ALONG EXCEEDS 50 FEET.

IF ACID-PRODUCING DEPOSITS ARE EXPOSED, THE CONTRACTOR SHALL ADHERE TO THE FOLLOWING PROCEDURES FOR COVERING ACID-PRODUCING DEPOSITS

- SPREAD ONE (1) FOOT OF SOIL FREE OF ACID-PRODUCING DEPOSITS OVER THE EXPOSED DEPOSIT SURFACE. THE PH OF SUCH SOIL CLAY LOAM, LOAM, SILT LOAM OR SILT.
- 2. COMPACT THE SOIL THAT HAS BEEN SPREAD PURSUANT TO ITEM 1 ABOVE. IF VEGETATION IS TO BE USED TO STABILIZE THE
- THAT CONDITION ARE AN INTEGRAL PART OF THE PROJECT.
- SINCE THE OXIDATION OF SULFIDE MINERALS AND RESULTING GENERATIONS OF ACID COMMENCES AS THE ACID-PRODUCING DEPOSITS ARE 3.0. WHICHEVER IS LESS.

DISPOSAL OF ACIDIC-PRODUCING DEPOSITS

ACID—PRODUCING DEPOSITS (INCLUDING EARTH CONTAMINATED WITH SUCH DEPOSITS) THAT ARE NOT BACKFILLED AND COVERED PURSUANT TO THE ABOVE SECTIONS SHOULD BE DISPOSED OF ON OR OFF THE CONSTRUCTION SITE IN A SUITABLE MANNER AND LOCATION. ACID-PRODUCING DEPOSITS SHOULD NOT BE DISCHARGED INTO WATERCOURSES, INDISCRIMINATELY SPREAD OVER UNCONTAMINATED SOIL, OR SOLD OR DISTRIBUTED AS TOPSOIL OR TOPSOIL AMENDMENTS SUITABLE FOR PLANT GROWTH. INSTEAD, SUCH DEPOSITS SHOULD BE BURIED AT LEAST TWO FEET BENEATH THE LAND SURFACE. IN SUCH A MANNER THAT THE COVER MATERIAL IS NOT SUBJECT TO ACCELERATED EROSION. STOCKPILES OF ACID-PRODUCING DEPOSITS AWAITING BURIAL SHOULD BE COVERED WITH PULVERIZED LIMESTONE AT THE RATE OF 30 TONS PER ACRE (1,375 POUNDS PER 1,000 SQUARE FEET) AND THEN COVERED WITH A MINIMUM OF 12 INCHES OF COMPACTED SOIL, FREE OF ACID-PRODUCING DEPOSITS WITHIN ONE WEEK AFTER EXPOSURE, OR BEFORE THE PH OF A WELL-MIXED SAMPLE FROM THE UPPERMOST TWO INCHES OF THE DEPOSIT DROPS TO 3.0, WHICHEVER OCCURS FIRST. WHENEVER PRACTICABLE, THE DEPOSIT SHOULD BE BURIED THE SAME DAY IT IS EXCAVATED.

1. THE AREA OF ACID-PRODUCING DEPOSITS EXPOSED SHOULD BE NO LARGER THAN THAT WHICH IS ABSOLUTELY NECESSARY FOR THE

WHERE THE TOP LAYER OF SOIL (REMAINING AFTER CLEARANCE OF VEGETATION) IS FREE FROM ACID-PRODUCING DEPOSITS, SUCH SOIL SHOULD BE STRIPPED AND STOCKPILED SEPARATELY FROM THE DEEPER, ACID-PRODUCING DEPOSITS TO BE EXPOSED. NO

EQUIPMENT) SHOULD NOT BE EXPOSED FOR MORE THAN EIGHT HOURS EXCEPT WHERE ABSOLUTELY NECESSARY FOR THE CONDUCT OF THE PROJECT. IF SUCH DEPOSITS MUST BE EXPOSED FOR MORE THAN EIGHT HOURS, SUCH DEPOSITS SHOULD BE COVERED WITH PULVERIZED LIMESTONE AT THE RATE OF 30 TONS PER ACRE (1,375 POUNDS PER 1,000 SQUARE FEET) AND THEN COVERED WITH A MINIMUM OF ONE FOOT OF COMPACTED TOPSOIL (FREE OF ACID-PRODUCING DEPOSITS) WITHIN ONE WEEK AFTER EXPOSURE, OR BEFORE THE PH OF A WELL-MIXED SAMPLE FROM THE UPPERMOST TWO INCHES OF THE EXPOSED DEPOSIT DROPS TO 3.0, WHICHEVER OCCURS

5. EQUIPMENT USED FOR EXCAVATING OR BACKFILLING ACID-PRODUCING DEPOSITS SHOULD BE CLEANED AT THE END OF EACH DAY'S OPERATION IN SUCH A WAY THAT WILL NOT CAUSE THE SPREADING OF ACID-PRODUCING DEPOSITS ONTO UNCONTAMINATED SOIL OR INTO

WITH SUCH DEPOSITS) ONTO OR INTO SOIL FREE OF SUCH DEPOSITS (ON OR OFF THE CONSTRUCTION SITE). NO CONSTRUCTION SHOULD TAKE PLACE DURING RAINSTORMS OR WHILE THE GROUND IS SATURATED, IF SUCH CONSTRUCTION IS LIKELY TO SMEAR OR SPREAD ACID-PRODUCING DEPOSITS OVER UNCONTAMINATED SOIL OR INTO WATERWAYS. IF ACID-PRODUCING DEPOSITS MUST BE STOCKPILED ON TOP OF SOIL HERETOFORE FREE OF SUCH DEPOSITS, THE AREA USED FOR STOCKPILING SHOULD BE MINIMIZED. EROSION AND SEDIMEN CONTROL MEASURES SHOULD BE APPLIED WHERE ACID-PRODUCING DEPOSITS ARE EXPOSED OR STOCKPILED, TO PREVENT OR REDUCE THE

FOLLOWED BY UPPER MATERIAL. (HOWEVER, IF ACID-PRODUCING DEPOSITS ARE FOUND ONLY IN THE UPPER MATERIAL, THEN THE UPPER MATERIAL SHOULD BE RETURNED FIRST. THIS EXCEPTION ALSO APPLIES TO THE FOLLOWING SENTENCES). WHERE ACID-PRODUCING DEPOSITS ARE STOCKPILED ON SOIL HERETOFORE UNCONTAMINATED WITH SUCH DEPOSITS, THE TOP TWO INCHES OF SUCH SOIL SHOULD BE SCRAPED OFF AND BURIED ALONG WITH THE "LOWER MATERIAL." THE SURPLUS MATERIAL RESULTING DUE TO PERMANENT GRADE REDUCTION, PLACEMENT OF PIPES OR OTHER STRUCTURES, AND SOIL SCRAPED FROM AREAS UNDER TEMPORARY STOCKPILES OF ACID PRODUCING DEPOSITS, SHOULD BE SUBSTITUTED FOR AN EQUAL QUANTITY OF DEEPER MATERIAL WHICH IN TURN SHOULD BE REMOVED TO A SUITABLE DISPOSAL SITE (REFER TO DISPOSAL OF ACID-PRODUCING DEPOSITS, THIS SHEET). AFTER BACKFILLING THE DEEPER MATERIAL, PULVERIZED LIMESTONE SHOULD BE SPREAD OVER THE TOP OF THE MATERIAL, AT THE RATE OF TEN (10) TONS PER ACRE (460 POUNDS PER 1,000 SQUARE FEET), BEFORE THE APPLICATION OF THE SURFACE LAYER OF SOIL. THIS LINING PROCEDURE IS APPLICABLE ONLY IN WELL-DRAINED AREAS. THE TOP LAYER OF SOIL FREE OF ACID-PRODUCING DEPOSITS, STRIPPED AND STOCKPILED IN ITEM 3 ABOVE, SHOULD THEN BE REPLACED. IF NECESSARY, ADDITIONAL QUANTITIES OF TOPSOIL SHOULD BE IMPORTED SO AS TO ENSURE AT LEAST ONE (1) FOOT DEEP COVER OF SOIL, FREE OF ACID-PRODUCING DEPOSITS. RESTRICTIONS ESTABLISHED IN THE RULES CONCERNING THE AMOUNT OF NET FILL THAT MAY BE PLACED IN FLOOD PLAINS MUST ALSO BE COMPLIED WITH.

TOPSOIL APPLICATION REQUIREMENTS OF ITEM 7, AND THE SURFACE SOIL PH REQUIREMENTS OF ITEM 9 ARE FIRST MET. OTHERWISE, TEMPORARY STABILIZATION OF ACID-PRODUCING DEPOSITS SHOULD BE ACCOMPLISHED WITH "MULCH ONLY". IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NJ. NO MORE THAN EIGHT HOURS SHOULD ELAPSE BEFORE THE APPLICATION OF MULCH. (MULCHING FOR TEMPORARY STABILIZATION IS NOT A SUBSTITUTE FOR THE LIMESTONE AND TOPSOIL APPLICATION REQUIREMENTS OF ITEMS 4 AND 7. MULCH SHOULD NOT BE DIRECTLY APPLIED TO THE EXPOSED SURFACE OF ACID-PRODUCING DEPOSITS,

FOR THE "INCUBATION TEST" DISCUSSED BELOW. REVEGETATION MUST BE PERFORMED UNDER THE DIRECTION OF A SOILS SPECIALIST OR AGRONOMIST. WHO BY TRAINING OR EXPERIENCE IS FAMILIAR WITH THE PROBLEMS OF REVEGETATING ACID-PRODUCING DEPOSITS. THE SOILS SPECIALIST OR AGRONOMIST SHOULD PERFORM PH TESTS ON THE SURFACE LAYER OF SOIL WHERE THE VEGETATION WILL ROOT (ALLOWING FOR ROOT EXPANSION DUE TO PLANT GROWTH). IF THE PH IS BELOW 4.0, THE SOILS SPECIALIST OR AGRONOMIST SHOULD ALSO PERFORM INCUBATION LIME REQUIREMENT TESTS (SOIL SAMPLE ALLOWED TO OXIDIZE FOR SIX (6) WEEKS) TO DETERMINE LIME APPLICATION RATES. THE PH OF THE SURFACE LAYER OF SOIL MUST BE RAISED TO AT LEAST 5.0 BEFORE SEEDING OR PLANTING.

WATERCOURSE BANKS, THE PERIOD OF EXPOSURE SHOULD BE HELD TO A MINIMUM AND MEASURES SHOULD BE TAKEN TO COVER SUCH DEPOSITS SO AS TO PREVENT THE ACCELERATED OXIDATION OF SUCH DEPOSITS. THIS REQUIREMENT APPLIES WHETHER OR NOT THE LENGTH

SHOULD BE 5.0 OR GREATER. THE TEXTURE OF THE SOIL SHOULD FALL WITHIN THE FOLLOWING TEXTURAL CLASSES (U.S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE CLASSIFICATION): CLAY, SILTY CLAY, SANDY CLAY, CLAY LOAM, SILTY CLAY LOAM, SANDY

WATERCOURSE BANKS (SEE ITEM 3 BELOW), THE SOIL SHALL NOT BE COMPACTED TO A BULK DENSITY EXCEEDING 1.7 GRAMS PER CUBIC CENTIMETER, AND THE LIMING AND PH REQUIREMENTS OF ITEMS 7 AND 9 OF THE GENERAL MITIGATION PROCEDURES SHALL BE MET. PREPARE A STABLE CHANNEL IN A MANNER CONSISTENT WITH THE "STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL." THE COVER OF THE SOIL FREE OF ACID-PRODUCING DEPOSITS SHALL NOT BE SUSCEPTIBLE TO APPRECIABLE EROSION AND WASHOUT. WHERE ACID CONDITIONS MAY PREVENT THE ESTABLISHMENT OF SUFFICIENT VEGETATION, ACID-RESISTANT RIP RAP SHALL BE USED INSTEAD OF VEGETATION. THE CHANNEL SHALL BE RESTORED TO THE PHYSICAL CONDITION EXISTING PRIOR TO CONSTRUCTION, UNLESS CHANGES TO

EXPOSED, THE SOIL LAYER SHOULD BE APPLIED PROMPTLY TO THE NEWLY EXPOSED DEPOSITS WITHIN OR ALONG THE CHANNEL. TO ACCOMPLISH THIS, CHANNEL EXCAVATION SHOULD PROCEED (WHERE NECESSARY) IN STAGES ALONG THE SUCCESSIVE REACH LENGTHS OF THE CHANNEL, SCHEDULED IN SUCH A WAY THAT NO NEWLY EXPOSED ACID-PRODUCING DEPOSITS REMAIN EXPOSED LONGER THAN ONE WEEK, OR THE TIME REQUIRED FOR THE PH OF A WELL-MIXED SAMPLE FROM THE UPPERMOST TWO INCHES OF THE DEPOSIT TO DROP TO

09/05/2024 1 INITIAL SUBMISSION ISSUE DATE ISSUE NO. SUBMISSION / REVISION ROWAN UNIVERSITY EDGEWOOD APARTMENT ADDITIONS SHEET 3.01, BLOCK 388, P/O LOT 2.01 BOROUGH OF GLASSBORO, GLOUCESTER COUNTY, NEW JERSEY SOIL EROSION AND SEDIMENT CONTROL NARRATIVE SHEET ROWAN UNIVERSITY 201 MULLICA HILL ROAD GLASSBORO, NEW JERSEY 08028 JESSE D. DOUGHERTY, P.E. PROFESSIONAL ENGINEER)9/05/2024 070 001

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URFOSE INTENDED WILL BE OWNERS SOLE RISK AND ITHOUT LIABILITY OR LEGAL EXPOSURE TO MARATHON NGINEERING AND ENVIRONMENTAL SERVICES, INC. AND HALL INDEMNIFY AND HOLD HARMLESS MARATHON NGINEERING AND ENVIRONMENTAL SERVICES, INC. FROM LL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.		16 NO. 30	1

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 1/2" HARDWARE CLOTH AND GEOTEXTILE FABRIC. THE PERFORATIONS SHALL BE 1/2" x 6" SLITS OR 1" DIAMETER HOLES.
- 3. A BASE 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 THE PIT OR THE RISER CREST ELEVATION (BASIN DEWATERING ONLY) AND THE FILTER MATERIAL SHOULD EXTEND 3" MINIMUM ABOVE THE ANTICIPATED STANDING WATER ELEVATION.
- 5. ♥ WATER SURFACE ELEVATION.
- 6. SEDIMENT CONTROL BAGS MUST BE DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS. BAGS MAY NOT BE REUSED. TEMPORARY SUMP PIT DURING CONSTRUCTION

N.T.S.

NOTES: 1. BAG MUST BE LOCATED AWAY FROM RECEIVING WATERS AND/OR CONSTRUCTION ACTIVITIES. 2. BAG MUST BE DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS. BAGS MAY NOT BE REUSED.

> SEDIMENT CONTROL BAG FOR DEWATERING DETAIL

> > N.T.S.

FASTENERS AND

STANDARD SILT FENCE DETAIL N.T.S.

09/05/2024	1	INITIAL SUBMISSION	
ISSUE DATE	ISSUE NO.	SUE	MISSION/REVISION
IKUWAN UI	NIVERSIIY	EDGEWOOD APARIMEN	I ADDITIONS
	SHEET 3	3.01. BLOCK 388. P/O LOT 2.01	
BOROU	JGH OF GLAS	SBORO, GLOUCESTER COUNTY, NE	W JERSEY
5	UIL ERU	JSIUN AND SEDIMI	
	CONTE	ROL DETAIL SHEET	
	ROV	VAN UNIVERSIIY	
		201 MULLICA HILL ROAD	
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		PROFESSIONAL ENGINEER	
	NEW JER	EY LICENSE NO. 24GE05008100	
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ALL DOCUMENTS PREPARED BY MARATHON ENGINEERING AND ENVIRONMENTAL SERVICES, INC. ARE INSTRUMENTS	SHOWN	AF	JDD
NIENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER TO OTHERS ON EXTENSIONS OF THE PROJECT DR ON ANY OTHER PROJECT ANY RELIGE WITHOUT WRITTEN	WN BY		SHEET
ARTICLATION OR ADAPTATION BY MARATHON ENGINEERING	SK	13	UF 13
PURPOSE INTENDED WILL BE OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO MARATHON			
HALL INDEMNIFY AND HOLD HARMLESS MARATHON NGINEERING AND ENVIRONMENTAL SERVICES, INC. FROM JL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING	C13	502	2
OUT OF OR RESULTING THEREFROM.			

CODE LEGEND

<u>↓</u>	EXIT PATH		
	TOTAL TRAVEL	DISTANCE	
		OF TRAVEL	
— — (X' - X'')			
	TRAVEL DISTAI	NCE	
	3 HR FIRE WAL	L	
	2 HR FIRE RATE	ED WALL	
<u> </u>	1 HR VERTICAL	EXIT ENCLOSURE	
	ACCESSIBLE R	OUTE	
DOOR CAPACIT	Y KEY	ROOM OCCUP	ANCY KEY

CODE SUMMARY

LIST OF APPLICABLE BUILDING CODES:

- 2021 INTERNATIONAL BUILDING CODE (IBC) - NEW JERSEY EDITION - 2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) & ANSI/ASHRAE/IES 90.1 - 2019

R-2, RESIDENTIAL (DORMITORY)

- 2021 INTERNATIONAL FUEL GAS CODE (IFGC)
 2021 INTERNATIONAL MECHANICAL CODE (IMC)
- 2021 INTERNATIONAL FIRE CODE (IFC) - N.J.A.C. SUBCODE CHAPTER 6, SECTION 5:23-6.32 ADDITIONS

EXISTING BUILDING INFORMATION

USE GROUP: CONSTRUCTION TYPE: IIIB FULLY SPRINKLERED: YES NUMBER OF STORIES: 3 STORIES (UNCHANGED)

EXG DEMISING WALLS:8" MASONRY, 2-HR RATED, UL-U906 (PER EXISTING DOCUMENTS)EXG BUILDING AREA:24, 552 S.F. (4 BUILDINGS @ 6,138 S.F. EACH)BUILDING HEIGHT:30'-0" (UNCHANGED)

PROPOSED ADDITION INFORMATION:

ADDITION/WORK AREA: 1,132 S.F. (4 ADDITIONS @ 283 S.F. EACH)

IRT ROOM OCCUPANCY TYPE: STORAGE/EQUIPMENT ROOMS OCCUPANCY LOAD: 300 GROSS TOTAL OCCUPANCY: 1 PERSON(S)

LAUNDRY ROOM OCCUPANCY TYPE: ACCESSORY USE OCCUPANCY LOAD: DETERMINED BY NUMBER OF APPLIANCES

Project No.: ©OZ Collaborative 2024

GENERAL CONSTRUCTION

NOTES, TYPICAL DETAILS, AND SCHEDULES APPLY TO ALL STRUCTURAL WORK UNLESS NOTED OTHERWISE. TYPICAL DETAILS ARE TO BE USED FOR ALL CONDITIONS WHERE THE DETAIL IS APPLICABLE, WHETHER OR NOT NOTED ON PLAN. TYPICAL DETAILS MAY BE SLIGHTLY ALTERED IF REQUIRED DUE TO PROJECT CONDITIONS. ONLY WHEN SUBMITTED AND THE ENGINEER'S APPROVAL IS OBTAINED PRIOR TO PERFORMING THE WORK.

ALL DIMENSIONS AND ELEVATIONS SHOWN ON STRUCTURAL DRAWINGS, WITH THE EXCEPTION OF STRUCTURAL MEMBER SIZES, ARE GENERATED BY OTHER DISCIPLINES. ANY DIMENSIONS OR ELEVATIONS OMITTED OR NOT SHOWN ON THE STRUCTURAL DRAWINGS SHOULD BE OBTAINED FROM THE DRAWINGS OF THE OTHER DISCIPLINES. STRUCTURAL DRAWINGS ARE NOT "STAND-ALONE" DOCUMENTS AND SHOULD BE USED IN CONJUNCTION WITH AND COORDINATED WITH THE SPECIFICATIONS ARCHITECTURAL DRAWINGS AND ALL OTHER DISCIPLINE'S DRAWINGS. IF THERE IS A DISCREPANCY BETWEEN DRAWINGS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER AND ARCHITECT PRIOR TO PERFORMING THE WORK

IF DIFFERENCES OCCUR WITHIN OR BETWEEN DRAWINGS AND SPECIFICATIONS REGARDING MATERIALS, STRENGTHS OR QUANTITIES, THE BETTER MATERIAL. HIGHER STRENGTH. AND GREATER QUANTITY INDICATED. SPECIFIED OR NOTED SHALL BE PROVIDED. REPRODUCTIONS OF STRUCTURAL DRAWINGS FOR SUBMITTAL AS SHOP DRAWINGS IS PROHIBITED, UNLESS WRITTEN APPROVAL IS

REQUESTED BY THE CONTRACTOR AND IT IS GRANTED BY O'DONNELL & NACCARATO. 5. DO NOT SCALE DRAWINGS TO OBTAIN DIMENSIONAL INFORMATION.

THESE DRAWINGS DO NOT DEFINE SCOPE OF CONTRACTOR OR SUBCONTRACTOR CONTRACTS.

AT ALL TIMES, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONDITIONS OF THE JOBSITE INCLUDING MEANS AND METHODS OF CONSTRUCTION AND SAFETY OF PERSONS AND PROPERTY. THE ENGINEER'S PRESENCE OR REVIEW OF WORK AT THE JOBSITE IS FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT ONLY AND IS NOT EVER TO BE CONSTRUED AS A REVIEW OF MEANS AND METHODS OF CONSTRUCTION AND SAFETY METHODS THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING ALLOWABLE CONSTRUCTION LOADS AND FOR PROTECTING THE COMPLETED OR

INCOMPLETE STRUCTURAL FRAMING FROM DAMAGE DUE TO TEMPORARY CONSTRUCTION LOADINGS.

COSTS OF INVESTIGATION AND/OR REDESIGN DUE TO CONTRACTOR ERRORS WILL BE AT THE CONTRACTOR'S EXPENSE. 10. ANY APPROVED CONTRACTOR REQUESTED CHANGES TO THESE DRAWINGS WILL BE DONE AT NO COST TO THE OWNER. APPROVAL OF CONTRACTOR REQUESTED CHANGES IN NO WAY STATES OR IMPLIES APPROVAL OF A CHANGE IN SCOPE OR CHANGE IN CONTRACT COST

UNLESS EXPLICITLY NOTED AS "ISSUED FOR BID", THESE DRAWINGS ARE NOT SUITABLE FOR OBTAINING BIDS FROM GENERAL OR SUBCONTRACTORS. BIDDING OF DRAWINGS PRIOR TO DESIGN COMPLETION AND "ISSUED FOR BID" IS DONE AT THE SOLE RISK OF THE BIDDING CONTRACTOR. ADDITIONS OR CORRECTIONS TO DRAWINGS THAT ARE BID PRIOR TO DESIGN COMPLETION AND "ISSUED FOR BID" WILL NOT BE CONSIDERED AS DESIGN ERRORS OR OMISSIONS. STRUCTURAL DESIGN, BY NATURE, CANNOT BE COMPLETE PRIOR TO COMPLETION OF ARCHITECTURAL AND MECHANICAL DRAWINGS.

ALL REFERENCES TO WATER/DAMPPROOFING, FIREPROOFING, AND UTILITIES ON THE STRUCTURAL DRAWINGS ARE FOR REFERENCE ONLY. SEE ARCHITECTURAL DRAWINGS, SPECIFICATIONS, AND OTHER DOCUMENTS FOR ALL WATER/DAMPPROOFING, FIREPROOFING AND UTILITY DETAILS AND REQUIREMENTS. COORDINATE ALL UNDERGROUND UTILITY REQUIREMENTS WITH THE CIVIL/MEP DRAWINGS. ALL UTILITIES SHALL BE ABOVE/BELOW FOOTING AND NOT LOCATED WITHIN THE FOOTINGS. NOTIFY ENGINEER OF RECORD IF OTHERWISE

13. IF THE EXISTING FIELD CONDITIONS DO NOT PERMIT THE INSTALLATION OF THE WORK IN ACCORDANCE WITH THE DETAILS SHOWN, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY. THE CONTRACTOR MUST PROVIDE A SKETCH OF THE CONDITION WITH HIS PROPOSED MODIFICATION OF THE DETAILS GIVEN ON THE CONTRACT DOCUMENTS. THIS SKETCH MUST BE SUBMITTED TO AND APPROVAL MUST BE GRANTED BY THE ENGINEER PRIOR TO PERFORMING THE WORK.

SUBMIT SHOP DRAWINGS SUCH THAT BY THE TIME THEY ARE RECEIVED BY O'DONNELL & NACCARATO, THERE WILL BE AT LEAST 14 DAYS BEFORE REVIEWED SUBMITTALS WILL BE NEEDED. ANY REVIEW THAT IS REQUIRED MORE EXPEDIENTLY WILL BE AT THE CONTRACTOR'S EXPENSE. SHOP DRAWINGS SHALL BEAR THE CONTRACTOR'S STAMP OF APPROVAL CERTIFYING THAT HE HAS VERIFIED ALL FIELD MEASUREMENTS, CONSTRUCTION CRITERIA, MATERIALS AND SIMILAR DATA AND HAS CHECKED EACH DRAWING FOR COMPLETENESS, COORDINATION AND COMPLIANCE WITH THE CONTRACT DOCUMENTS. IF REVIEW OF AN INCOMPLETE SHOP DRAWING IS REQUIRED. THAT SHOP DRAWING SHALL BE CLEARLY MARKED AS INCOMPLETE. THE AREA THAT NEEDS TO BE REVIEWED SHALL BE CLEARLY NOTED WITH AN EXPLANATION FOR THE REASON FOR PARTIAL APPROVAL

15. IN NO CASE SHALL HEAVY EQUIPMENT BE PERMITTED CLOSER THAN 8'-0" FROM ANY FOUNDATION/BASEMENT WALL. IF THE CONTRACTOR DEEMS IT NECESSARY TO OPERATE SUCH EQUIPMENT CLOSER THEN 8'-0", THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE AND, AT HIS OWN EXPENSE, PROVIDE ADEQUATE SUPPORTS OR WALL BRACES TO WITHSTAND THE ADDITIONAL LOADS SUPERIMPOSED FROM SUCH EQUIPMENT. 16. SIZE AND/OR LOCATION OF OPENINGS, SLEEVES, CONCRETE HOUSEKEEPING PADS, INSERTS, DEPRESSIONS, ETC. SHOWN ON THE STRUCTURAL DOCUMENTS ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY. THE CONTRACTOR IS SOLELY RESPONSIBLE TO COORDINATE ALL CONTRACT DOCUMENTS TO DETERMINE THE SIZE AND/OR LOCATION OF OPENINGS, SLEEVES, CONCRETE HOUSEKEEPING PADS, INSERTS, DEPRESSIONS, ETC. SIZE AND/OR LOCATION OF EXISTING STRUCTURES AND UTILITIES SHOWN ON THE STRUCTURAL DOCUMENTS ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY. THE CONTRACTOR IS SOLELY RESPONSIBLE TO VERIFY BY FIELD MEASUREMENTS/INVESTIGATION THE SIZE AND/OR LOCATION

OF ALL EXISTING STRUCTURES AND UTILITIES. THE CONTRACTOR SHALL SUBMIT SIGNED AND SEALED CALCULATIONS AND SHOP DRAWINGS BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED SHOWING DESIGNS OF METAL STAIRS, METAL RAILINGS AND CONNECTIONS TO STRUCTURE TAKING INTO ACCOUNT THE VERTICAL AND LATERAL LOADS STATED IN THE GOVERNING CODES. WHERE HEADERS OR OTHER TYPES OF STRUCTURAL MEMBERS HAVE BEEN DESIGNATED ON THE STRUCTURAL CONTRACT DOCUMENTS TO SUPPORT THE STAIRS, THE CONNECTIONS FROM THE STAIRS SHALL BE DESIGNED SO THAT NO ECCENTRIC OR TORSIONAL FORCES ARE IMPOSED ON THESE STRUCTURAL MEMBERS. IF ECCENTRIC

CONNECTIONS ARE USED, CONTRACTOR SHALL PROVIDE BRACING ELEMENTS FOR ALL SUPPORTING STEEL TO ELIMINATE THE TORSIONAL EFFECTS OF THE ECCENTRIC CONNECTIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING ALL EMBEDDED ITEMS AND HARDWARE AS REQUIRED PER THE STAIR DESIGN. STRUCTURAL COMPONENTS ARE NOT DESIGNED FOR VIBRATING EQUIPMENT. MOUNT VIBRATING EQUIPMENT ON VIBRATION ISOLATORS, INERTIA PADS, ETC

EXACT LOCATIONS OF ROOF PENETRATIONS TO BE COORDINATED BY THE GENERAL CONTRACTOR BETWEEN STEEL/JOIST/DECK/HVAC SUBCONTRACTORS. SEE DETAIL FOR ROOF FRAME REQUIREMENTS

EXISTING CONDITIONS/DEMOLITION

SHORING, BRACING, PROTECTION, AND UNDERPINNING OF EXISTING AND ADJACENT STRUCTURES DURING CONSTRUCTION, INCLUDING ALL DESIGN RESPONSIBILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. PROVIDE SIGNED AND SEALED CALCULATIONS AND DRAWINGS TO OWNER. PROTECT AND MAINTAIN THE INTEGRITY OF EXISTING AND ADJACENT STRUCTURES. BUILDINGS AND STREETS. ALL EXISTING DIMENSIONS, ELEVATIONS, AND LOCATIONS OF EXISTING STRUCTURES, OR RELATIVE TO EXISTING STRUCTURES, THAT ARE SHOWN ON THE STRUCTURAL DOCUMENTS WILL BE VERIFIED BY FIELD MEASUREMENTS PERFORMED BY THE CONTRACTOR. ANY DISCREPANCIES

SHALL BE REPORTED TO THE ARCHITECT AND ENGINEER. THE STRUCTURAL DOCUMENTS HAVE BEEN PREPARED BASED ON AVAILABLE KNOWLEDGE OF EXISTING CONDITIONS. IF, DURING DEMOLITION, EXCAVATION OR CONSTRUCTION, ACTUAL CONDITIONS ARE DISCOVERED TO DIFFER FROM THOSE INDICATED ON THE DOCUMENTS, THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED

4. ALL STRUCTURAL DEMOLITION MUST BE COORDINATED WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. SELECTIVELY DEMOLISH STRUCTURAL COMPONENTS AS REQUIRED TO CONSTRUCT NEW WORK. PRIOR TO ANY DEMOLITION WORK, AN ENGINEERING SURVEY REPORT OF THE STRUCTURE SHALL BE PREPARED BY THE CONTRACTOR TO DOCUMENT THE CONDITION OF THE FRAMING. FLOORS, AND WALLS. ANY ADJACENT STRUCTURE WHERE OCCUPANTS MAY BE EXPOSED SHALL BE SIMILARLY REVIEWED.

WHERE NEW FRAMING IS TO BE CONNECTED TO AN EXISTING STRUCTURE WITH BRICK OR CMU VENEER, THE VENEER SHALL BE REMOVED SUFFICIENTLY TO PERMIT CONNECTION OF THE NEW FRAMING DIRECTLY TO THE BUILDING SUPERSTRUCTURE. NEW BRICK OR CMU SHALL BE INSTALLED TO MATCH THE EXISTING ADJACENT SURFACES. MAINTAIN A 1/2" SEPARATION BETWEEN THE BRICK OR CMU AND THE NEW FRAMING, UNLESS NOTED OTHERWISE ON DRAWINGS. FILL GAPS WITH BACKER RODS AND SEALANTS. CONTRACTOR TO FIELD VERIFY ALL EXISTING FINISHED FLOOR ELEVATIONS PRIOR TO FABRICATION OF STEEL BEGINS, PROVIDE ALLOWANCE FOR ADDITIONAL LEVELING MATERIAL IN AREAS OF BREAK THROUGH TO THE EXISTING STRUCTURE TO ENSURE FINISHED FLOOR ELEVATION OF NEW MATCHES EXISTING.

CONTRACTOR SHALL RETAIN INDIVIDUAL TO PERFORM SITE SAFETY DEMOLITION PLAN, ENGINEERING STUDY AND ALL OTHER SERVICES RELATED TO DEMOLITION IN ACCORDANCE WITH LOCAL JURISDICTION REQUIREMENTS.

STRUCTURAL SPECIAL INSPECTIONS

SOILS

THE QUALIFIED AGENCY RETAINED BY THE OWNER FOR THESE SPECIAL INSPECTION SERVICES SHALL BE APPROVED BY THE OWNER. THE ARCHITECT, AND THE ENGINEER OF RECORD PRIOR TO START OF CONSTRUCTION. AN OUTLINE OF THE SCOPE OF SERVICES TO BE PERFORMED BY THE INSPECTING AGENCY IS TO BE SUBMITTED PRIOR TO THE START OF CONSTRUCTION. IN ACCORDANCE WITH SECTION 1704 OF THE INTERNATIONAL BUILDING CODE, AND ALL APPLICABLE STATE AND LOCAL REQUIREMENTS, AN

INDEPENDENT APPROVED AGENCY SHALL MAKE PERIODIC AND/OR CONTINUOUS INSPECTIONS OF THE CONSTRUCTION PROGRESS IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:

CONCRETE CONSTRUCTION SECTION 1704.4, TABLE 1704.4 MASONRY CONSTRUCTION SECTION 1704.5.1, TABLE 1704.5.1-.3 SECTION 1704.7, TABLE 1704.7

FOUNDATIONS

REQUIRED.

SUBGRADE OF ALL FOOTINGS MUST BE INSPECTED UNDER THE SUPERVISION OF AND APPROVED BY A REGISTERED SOILS ENGINEER BEFORE PLACING ANY CONCRETE. APPROVAL IN WRITING MUST INDICATE THE SOIL IS ADEQUATE TO SAFELY SUSTAIN SPECIFIED SOIL BEARING PRESSURE. BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 3 FEET BELOW EXTERIOR FINISH GRADE. ALL FOOTING ELEVATIONS SHOWN ON PLAN ARE THE BEST APPROXIMATIONS BASED ON AVAILABLE DATA. GENERAL CONTRACTOR MAY ALTER FOOTING ELEVATIONS FOR REASONS INCLUDING, BUT NOT LIMITED TO, REVISED GEOTECHNICAL OR CIVIL INFORMATION, UNFORESEEN CONDITIONS, ACTUAL INVERT ELEVATIONS, CONTRACTIBILITY, ETC. CONTRACTOR SHALL NOTIFY ARCHITECT AND OBTAIN WRITTEN APPROVAL PRIOR TO ANY MODIFICATIONS.

<u>CONCRETE</u>

- OTHERWISE ON DRAWINGS CONCRETE POURED AGAINST EARTH CONCRETE EXPOSED TO EARTH OR WEATHER: #5 OR SMALLER #6 OR LARGER
- CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: SLABS, WALLS, JOISTS: #14 OR #18 BARS 1 1/2" #11 OR SMALLER 3/4"
- CLEAR COVER SHALL BE CLEARLY SHOWN ON ALL REINFORCING BAR DETAIL DRAWINGS. ALL CONCRETE SHALL BE READY-MIX AND HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF:
- SPREAD FOOTINGS/WALL FOOTINGS

LIGHTWEIGHT CONCRETE SUBMIT MIX DESIGNS FOR REVIEW

REQUIREMENTS OF

60. WF SHALL COMPLY WITH ASTM A185.

ALL INSERTS AND SLEEVES SHALL BE CAST-IN-PLACE. THE CONTRACTOR SHALL VERIFY THE DIMENSIONS AND LOCATIONS OF ALL OPENINGS. PIPE SLEEVES, ETC. AS REQUIRED BY ALL TRADES BEFORE THE CONCRETE IS POURED. THE CONTRACTOR SHALL CONSULT THE ARCHITECTURAL MECHANICAL, AND ELECTRICAL DRAWINGS, AS WELL AS THE STRUCTURAL DRAWINGS FOR THE LOCATION, NUMBER, AND SIZE OF ALL OPENINGS, SLEEVES, ETC. HOWEVER, OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE INSTALLED ONLY AFTER APPROVAL BY THE STRUCTURAL ENGINEER IS OBTAINED. THE CONTRACTOR SHALL SUBMIT A COORDINATED SET OF SLAB PENETRATION DRAWINGS FOR REVIEW SHOWING LOCATIONS AND DIMENSIONS OF ALL OPENINGS, SLEEVES, ETC. FROM ALL TRADES IN CAST-IN-PLACE CONCRETE SLABS, BEAMS, WALLS, COLUMNS, AND FOUNDATIONS. THESE DRAWINGS SHALL BE COORDINATED BY THE CONTRACTOR. OPENINGS AND SLEEVES THROUGH CAST-IN-PLACE CONCRETE FRAMING IS PROHIBITED EXCEPT WHERE THOSE SLEEVES AND OPENINGS ARE SHOWN ON THE STRUCTURAL DRAWINGS OR WHERE THEY ARE SHOWN ON THE APPROVED COORDINATED SLAB PENETRATION DRAWINGS THAT HAVE BEEN SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW. SAW-CUTTING, CORING, OR DRILLING OF SLEEVES OR OPENING THROUGH PREVIOUSLY CAST CONCRETE IS NOT PERMITTED EXCEPT WHERE SPECIFICALLY REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER.

CONTRACTOR TO ENGAGE AN ENGINEER, REGISTERED IN THE PROJECT'S JURISDICTION, TO DEVELOP ALL FORMWORK, SHORING, AND RESHORING DESIGNS AND PROCEDURES AND SUBMIT SIGNED AND SEALED DRAWINGS AND CALCULATIONS. ALL SHORING AND RESHORING MUST REMAIN IN PLACE FOR A MINIMUM OF 28 DAYS AFTER CONCRETE PLACEMENT, OR WHEN FULL STRENGTH IS ACHIEVED FROM FIELD CURED CYLINDERS.

THE CONTRACTOR SHALL DELIVER TO THE ENGINEER, AT THE END OF THE JOB, ONE (1) ELECTRONIC VERSION OF THE FINAL FIELD COPIES OF ALL STEEL REINFORCING SHOP DRAWINGS.

MASONRY

MASONRY UNITS SHALL BE MEDIUM WEIGHT ASTM C90 HOLLOW GROUTED SOLID BELOW GRADE. WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI. ALL CMU SHALL BE LAID IN A FULL BED OF MORTAR. 2. FOLLOWING ARE THE BLOCK STRENGTHS REQUIRED: ASTM C90 HOLLOW 2000 PSI ON NET AREA OF INDIVIDUAL UNITS. 3. ALL MORTAR SHALL BE ASTM C270 TYPE S WITH A MINIMUM COMPRESSIVE STRENGTH OF 1800 PSI AT 28 DAYS.

BUT NOT LESS THAN 2000 PSI 5. LAID UP MASONRY DESIGN I'M IS 2000 PSI FOR STANDARD CONCRETE MASONRY.

VERTICAL REINFORCING SHALL BE ASTM A615, GRADE 60 DEFORMED BARS. MINIMUM DEVELOPMENT AND LAP SPLICE LENGTHS TO BE PER "TENSION DEVELOPMENT AND LAP SPLICE LENGTH FOR MASONRY" TYPICAL DETAIL TABLE (U.N.O. ON PLANS). MECHANICAL SPLICING DEVICES WHICH ARE RATED TO DEVELOP 125 PERCENT OF FY OF THE BAR MAY BE SUBSTITUTED. SUBMIT PRODUCT DATA FOR ENGINEERING APPROVAL.

SPECIFICATIONS (TMS 602). AND INSPECTED BY A QUALIFIED ENGINEER.

PROVIDE HOT-DIPPED GALVANIZED TRUSS TYPE OR LADDER TYPE HORIZONTAL JOINT REINFORCEMENT, MINIMUM 9 GA, AT 16 INCHES ON CENTER VERTICAL IN ALL MASONRY WALLS. SPACE HORIZONTAL JOINT REINFORCEMENT AT 8 INCHES ON CENTER IN ALL PARAPETS. USE SHOP FABRICATED SPECIAL PIECES AT ALL CORNERS AND TEES

9. AS A MINIMUM, ALL CORES CONTAINING VERTICAL REINFORCING ARE TO BE GROUTED SOLID

LIGHTGAGE METAL FRAMING

LIGHTGAGE METAL STUD DESIGNATION SHOWN ON STRUCTURAL DRAWINGS ASSUME MARINO WARE AS A DESIGN BASIS. MANUFACTURER MUST SUBMIT LITERATURE INDICATING THAT THE MEMBERS SUPPLIED PROVIDE EQUIVALENT STRENGTH AND STIFFNESS. MANUFACTURER AND/OR SUPPLIER TO PREPARE INFORMATION INDICATING CAPACITY OF MEMBERS, FRAMING DETAILS, CONNECTIONS, BRACING, BRIDGING AND ALL OTHER APPURTENANCES OF MEMBERS TO CONFORM TO LOAD CRITERIA AS DIRECTED BY CONTRACTOR/CONSTRUCTION MANAGER. ALL LINTELS INDICATED ON DRAWINGS AS METAL STUD LINTELS ARE TO BE PROVIDED BY STUD MANUFACTURER/SUPPLIER.

ALL STEEL STUDS SHALL BE HOT-DIPPED GALVANIZED (G 60) IN ACCORDANCE WITH ASTM A924. STEEL STUDS SHALL BE DESIGNED, MANUFACTURED AND INSTALLED IN ACCORDANCE WITH THE LATEST AISC SPECIFICATIONS AND SHALL COMPLY WITH ASTM A653 & C955. ALL STUDS, JOISTS, AND ACCESSORIES SHALL HAVE THE FOLLOWING MATERIAL STRENGTHS:

54 MILS (16 GAGE) AND HEAVIER - EY = 50KSI 33 MILS, 43 MILS (20 GAGE, 18 GAGE RESPECTIVELY) - FY = 33KSI.

ALL WELDING OF LIGHT GAGE STEEL FRAMING MUST BE DONE BY CERTIFIED WELDERS IN ACCORDANCE WITH AWS D1.3, SPECIFICATION FOR WELDING SHEET STEEL IN STRUCTURES. MAKE CONNECTIONS WITH SELF-TAPPING SCREWS OR WELDING SO THAT THE CONNECTIONS MEET OR EXCEED THE DESIGN LOADS. ALWAYS

USE WELDS WHERE SHOWN ON DRAWINGS. CUT ALL LIGHT GAGE STEEL FRAMING MEMBERS WITH SAWS OR SHEARS. FLAME CUTTING IS NOT PERMITTED.

OF LIGHT GAGE STEEL FRAMING SYSTEMS.

NO GEOTECHNICAL REPORT IS PROVIDED. BOTTOM OF FOOTINGS IS ASSUMED TO BEAR ON SOIL CAPABLE OF SAFELY SUPPORTING 2,000 PSF. PRIOR TO CONSTRUCTION. THE SERVICES OF A QUALIFIED GEOTECHNICAL ENGINEER SHALL BE RETAINED. THE GENERAL CONTRACTOR IS HEREIN RESPONSIBLE FOR PERFORMING ALL EARTHWORK OPERATIONS IN STRICT ACCORDANCE WITH GEOTECHNICAL ENGINEERING REQUIREMENTS. IF THE FOUNDATION RECOMMENDATIONS AND/OR DESIGN VALUES DIFFER FROM THAT ASSUMED. MODIFICATION TO THE DESIGN/DRAWINGS MAY BE

REINFORCING STEEL SHALL BE WITHIN TOLERANCES SET FORTH IN ACI 117, AND HAVE THE SPECIFIED CLEAR COVER. UNLESS NOTED

1 1/2"

3.000 PSI

OR AS SHOWN ON DRAWINGS. HAVE A MINIMUM OF 500 LBS. OF CEMENT PER CUBIC YARD. SLUMP (AT POINT OF CONCRETE PLACEMENT) SHALL BE 3 INCH MINIMUM AND 6 INCH MAXIMUM. CONCRETE EXPOSED TO WEATHER SHALL HAVE 5 PERCENT AIR ENTRAINMENT. CONCRETE NOT EXPOSED TO WEATHER SHALL NOT CONTAIN AN AIR-ENTRAINING AGENT EXCEPT IF REQUIRED TO ACHIEVE DENSITY SPECIFICATIONS FOR

NORMAL-WEIGHT CONCRETE TO BE GIVEN A HARD-TROWELED FINISH SHALL NOT CONTAIN AN AIR-ENTRAINING AGENT. TOTAL AIR CONTENT FOR THIS CONCRETE SHOULD NOT EXCEED 3 PERCENT (AT POINT OF CONCRETE PLACEMENT). ALL CONCRETE WORK SHALL COMPLY WITH THE

ALL REINFORCING STEEL SHALL BE MANUFACTURED FROM HIGH STRENGTH BILLET STEEL CONFORMING TO ASTM DESIGNATION A615 GRADE

4. LAP ALL REINFORCING BARS 62 DIAMETERS. LAP ALL WWF A MINIMUM OF SIX INCHES.

SUBMIT ALL REINFORCING SHOP DRAWINGS FOR REVIEW PRIOR TO ANY FABRICATION. ALL REINFORCING, INCLUDING REINFORCING SHOWN IN DETAILS, SHALL BE SHOWN ON PLAN OR ELEVATION IN ALL LOCATIONS THAT APPLY.

GROUT SHALL BE A HIGH SLUMP MIX IN ACCORDANCE WITH ASTM SPECIFICATION C476 HAVING A MINIMUM COMPRESSIVE STRENGTH OF I'm

ALL CONCRETE MASONRY SHALL BE CONSTRUCTED AND ERECTED IN ACCORDANCE WITH THE GOVERNING MASONRY CODE (TMS 402) AND

THE LIGHT GAGE STEEL FRAMING SUPPLIER AND ERECTOR SHALL HAVE A MINIMUM 5 YEARS EXPERIENCE IN THE FABRICATION AND ERECTION

SNOW DESIGN LOAD SCHEDULE INTERNATIONAL BUILDING CODE 2021/ASCE 7-16			
ITEM	SYMBOL	VALUE	REFERENCE
GROUND SNOW LOAD	Pg	20 psf	IBC 2018: FIGURE 1608.2
SNOW EXPOSURE FACTOR	Ce	1.0	ASCE 7-16: TABLE 7.3-
SNOW LOAD IMPORTANCE FACTOR	Ϊs	1.0	ASCE 7-16: TABLE 1.5-
THERMAL FACTOR	C t	1.0	ASCE 7-16: TABLE 7.3-
FLAT-ROOF SNOW LOAD	Pf	20 psf	ASCE 7-16: SECTION 7.

LATERAL LOAD DESIGN SCHEDULE INTERNATIONAL BUILDING CODE 2021/ASCE 7-16				
	WIND LOAD			
ITEM	SYMBOL	VALUE	REFERENCE	
BASIC WIND SPEED (3 SEC. GUST)	V	115	IBC 2018: FIGURE 1609.3	
RISK CATEGORY	-	II	IBC 2018: TABLE 1604.5	
WIND EXPOSURE CATEGORY	-	В	IBC 2018: SECTION 1609.4.3	
	SEISMIC LOA	D		
ITEM	SYMBOL	VALUE	REFERENCE	
IMPORTANCE FACTOR	I _E	1.0	ASCE 7-16: TABLE 1.5-2	
SHORT PERIOD SPECTRAL ACCELERATION	S _{DS}	0.16	IBC 2018: SECTION 1613.2.4	
(1) SECOND PERIOD SPECTRAL ACCELERATION	S _{D1}	0.063	IBC 2018: SECTION 1613.2.4	
RISK CATEGORY	-	П	IBC 2018: TABLE 1604.5	
BASIC STRUCTURAL SYSTEM	-	LIGHT GAUGE SHEAR WALL	ASCE 7-16: SECTION 11.6	
SEISMIC DESIGN CATEGORY	-	в	ASCE 7-16: SECTION 11.6	
SITE CLASSIFICATION	-	D	ASCE 7-16: TABLE 20.3-1	
SEISMIC FORCE-RESISTING SYSTEM	-	LIGHT GAUGE Shear Wall	ASCE 7-16: TABLE 12.2-1	
RESPONSE MODIFICATION COEFFICIENT	R	6.5	ASCE 7-16: 12.2-1 TABLE	
DEFLECTION AMPLIFICATION FACTOR	C _d	4	ASCE 7-16: TABLE 12.2-1	
ANALYSIS PROCEDURE	EQUIVALE FORCE F	ENT LATERAL PROCEDURE		

	TYPICAL AB	BREVIA	TIONS
A.B.	ANCHOR BOLT	L.P.	LOW POINT
A.F.F.	ABOVE FINISH FLOOR	L.W.	LIGHT WEIGHT
ADDL.	ADDITIONAL	LLH	LONG LEG HORIZONTAL
ALT.	ALTERNATE	LLV	LONG LEG VERTICAL
ARCH.	ARCHITECT	LWB	LONG WAY BOTTOM
B.C.E.	BOTTOM CHORD EXTENSION	M.E.P.	MECHANICAL ELECTRICAL PLUMBING
B. <i>O</i> .	BOTTOM OF	M.S.T.	METAL STUD TRUSS
BLDG.	BUILDING	MAX.	MAXIMUM
BM.	BEAM	MECH.	MECHANICAL
BOTT.	воттом	MEZZ.	MEZZANINE
BRG.	BEARING	MFR	MANUFACTURER
BSMT	BASEMENT	MIN	MINIMUM
BP	BEARING PLATE	MISC	MISCELLANEOUS
		MD	
DTMN.			
			NON BEARING LINTEL
CANT.	CANTILEVER	N. I.S.	NOT TO SCALE
CMU	CUNCKETE MASONRY UNIT	N.W.	NURMAL WEIGHI
COL.	COLUMN	0/c	ON CENTER
CONC.	CONCRETE	P.A.F.	POWDER ACTUATED FASTENER
CONN.	CONNECTION	₽	PLATE
CONT.	CONTINUOUS	PC	PILE CAP
CTRD.	CENTERED	P/C	PRECAST
φ	DIAMETER	PSF	POUNDS PER SQUARE FOOT
DWG.	DRAWING	PSI	POUNDS PER SQUARE INCH
E.F.	EACH FACE	PTN.	PARTITION
E.O.D.	EDGE OF DECK	REINF.	REINFORCEMENT
E.O.S.	EDGE OF SLAB	REQ'D.	REQUIRED
E.W.	EACH WAY	RET'G.	RETAINING
EA.	EACH	S.F.	STEP FOOTING
EL.	ELEVATION	S.O.G.	SLAB ON GRADE
ELEV.	ELEVATOR	SCHED.	SCHEDULE
EMBED.	EMBEDMENT	SECT.	SECTION
EQ	EQUAL	SIM	SIMILAR
		SPECS	SPECIFICATIONS
EWB	EACH WAY BOTTOM	STIFE	STIFFENER
		STILL.	
ENI		SIRUCI.	STRUCTURAL
EX.			SHORT WAT BOTTOM
EXIST.	EXISTING	#B	TOP AND BOTTOM
EXP.	EXPANSION	Τ.	ТОР
EXT.	EXTERIOR	Т.О.	TOP OF
FDN.	FOUNDATION	T.O.C.	TOP OF CONCRETE
FIN.	FINISH	T.0.S.	TOP OF STEEL
FLR.	FLOOR	T.S.	THICKENED SLAB
FT.	FEET	TCELE	TOP CHORD EXTENSION LEFT END
FTG.	FOOTING	TCERE	TOP CHORD EXTENSION RIGHT END
GA.	GAGE	TDS	TURN DOWN SLAB
GALV.	GALVANIZED	ТНК.	THICK OR THICKENED
GB_	GRADE BEAM	TYP.	TYPICAL
H.P.	HIGH POINT	U.N.O.	UNLESS NOTED OTHERWISE
HORIZ.	HORIZONTAL	V.I.F.	VERIFY IN FIELD
I.F.	INSIDE FACE	VERT.	VERTICAL
IN.	INCHES	W.R.T.	WOOD ROOF TRUSS
INFO.	INFORMATION	w/	WITH
INT.	INTERIOR	₩С	WET COLUMN
		WP	WALL PLATE
		Y 1 Y 1 F	ALLULU MINE FADRIC
κ-†ϊ			

CONCRETE/STEEL LINTEL SCHEDULE (NON-BEARING WALLS)			
WIDTH OF OPENING	STEEL FOR EACH 4" OF WALL THICKNESS	REINF. CONC. FOR EACH 4" OF WALL THICKNESS	REMARKS
UP TO 2'-11"	∡3 1/2x3 1/2x5/16	(1) #4 TOP \$ BOTTOM	
3'-0" TO 3'-11"	≰4x3 1/2x5/16	(1) #4 TOP \$ BOTTOM	
4'-0" TO 5'-11"	≰5x3 1/2x5/16	(1) #4 TOP \$ BOTTOM	
6'-0" TO 8'-0"	≰6x3 1/2x5/16	(1) #5 TOP & BOTTOM	
8'-1" TO 10'-0"	∡6x3 1/2x3/8	(1) #5 TOP & BOTTOM	

1) ALL CONCRETE LINTELS SHALL BE 4000 PSI CONCRETE

AT 28 DAYS WITH GRADE 60 REINFORCING 2) ALL STEEL LINTELS SHALL BE ASTM A-36.

3) FILL CMU VOIDS SOLID (2) COURSES BELOW LINTEL BEARING.

4) ALL LINTELS SHALL HAVE 8" MINIMUM BEARING U.N.O.

5) ALL CONCRETE LINTELS SHALL BE 8" DEEP, U.N.O.

	WALL FO	DOTING S	SCHEDULE
	DIMEN	ISIONS	
MARK	WIDTH	DEPTH	REINFORCING
F20.12	2'-0"	1'-0"	(3) #4 LWB \$ #4@24" SWB

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LAUNDRY ROOMS
400 EDGEWOOD DRIVE, GLASSBORO, NJ 08028
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- 2. SEE ARCHITECTURAL DOCUMENTS FOR ALL SLOPES AND VARIANCES FROM 0.00'.
- 3. BOTTOM OF FOOTING ELEVATION TO MATCH BOTTOM OF EXISTING FOOTING ELEVATION. EXISTING ELEVATIONS PER 1973 DOCUMENTS ARE AS FOLLOWS: BUILDING 200 {134.67'} BUILDING 300 {135.33'}

BUILDING 500 {132.67'}

{134.33'}

4.	()	INDICATES	ТОР	OF	FOOTING	ELEVATION	F
	•							

BUILDING 400

- 5. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT INDICATED.
- 6. { } INDICATES APPROXIMATE BOTTOM OF EXISTING FOOTING ELEVATION RELATIVE TO DATUM ELEVATION 0.00'.
- 7. (*) INDICATES BOTTOM OF FOOTING ELEVATION TO MATCH BOTTOM OF EXISTING FOOTING ELEVATION.
- SCREWED @ 6" AROUND PERIMETER OF EACH PANEL AND 12" AT INTERIOR SUPPORTS.
- 9. "HD" INDICATES SIMPSON S/HDU9 HOLD DOWN @ EACH END OF WALLS w/ 7/8"\$ EPOXY ANCHORS (6" EMBED.). PROVIDE (2) JAMB STUDS AT ALL HOLD DOWN LOCATIONS.

RELATIVE TO DATUM ELEVATION 0.00'.

8. ALL EXTERIOR WALLS TO BE CONTINUOUSLY SHEATHED WITH 7/16" APA RATED SHEATHING,

PARTIAL EXISTING LEVEL 2 FRAMING PLAN SCALE: 1/8" = 1'-0"

NOTES:

1. ALL EXTERIOR WALLS TO BE CONTINUOUSLY SHEATHED WITH 7/16" APA RATED SHEATHING. SCREWED @ 6" AROUND PERIMETER OF EACH PANEL AND 12" AT INTERIOR SUPPORTS.

2. _ DI _ INDICATES 3/4" PLYWOOD SHEATHING. SEE ARCHITECTURAL DRAWINGS FOR ELEVATION.

3. "L1" INDICATES (2) 45x3 1/2x5/16 GALV. LINTEL.

4. "H1" INDICATES (2) 800S162-54 HEADER ω/ DOUBLE KING STUDS & DOUBLE JACK STUDS.

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1ARCHITECTURAL SITE PLANA0011/32" = 1'-0"

	Architect:
	Philadelphia, PA 19143
	215.386.8191 www.ozcollaborative.com
	Consultants:
	O'DONNELL&
	STRUCTURAL ENGINEERS
	Seal:
	Project:
	UNIVERSITY
	ROWAN EPA -
	LAUNDRY ROOMS
	400 EDGEWOOD DRIVE,
	GLASSBORO, NJ 08028
	Issue Date: 12/19/2024
	Revision Schedule
	No. Drawn By Description
	The Contractor on site shall verify all dimensions and
	existing conditions. The contractor is required to perform all work in compliance with applicable codes
	jurisdiction.
	All drawings, specifications, plans, ideas, arrangements and designs represented or referred to
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	치 SITE PLAN -
	Project No.: 23280
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4 SITE - ENLARGED - 500 BUILDING A002 1/16" = 1'-0"

	Architect:
	$(): \forall$
	collaborative
	4818 Baltimore Avenue Philadelphia, PA 19143
	215.386.8191 www.ozcollaborative.com
	Consultants:
	O'DONNELL <u>&</u> NACCARATO
	STRUCTURAL ENGINEERS
	BCCLT CONSULTING ENGINEERS
	Seal:
	Droio et
	UNIVERSIT
	ROWAN EPA -
	LAUNDRY ROOMS
	400 EDGEWOOD DRIVE,
	GLASSBORO, NJ 08028
	Issue Date: 12/19/2024
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Ш S	or given to or used by any person, firm or corporation for any use or purpose whatsoever including any other project, except upon written permission and direction
BID	of O Z Collaborative.
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/202	ENLARGED
/19/	BUILDINGS 200.
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	Project No · 23280

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2 DETAIL SECTION - WET WALL DEMO D101 1/2" = 1'-0"

	Architect:									
	():7									
	collaborative									
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	215.386.8191 www.ozcollaborative.com									
	Consultants:									
	O'DONNELLS NACCARATO									
	BCCLT CONSULTING ENGINEERS									
	Seal:									
	Project:									
	ROWAN									
	ROWAN FPA -									
	LAUNDRY ROOMS									
	GLASSBORO, NJ 08028									
	Issue Date: 12/19/2024									
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2/19/2024 - [Sheet Litle and No. DEMOLITION PLAN & DETAILS									
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2PARTIAL REFLECTED CEILING PLAN - BUILDING 200A1011/4" = 1'-0"BLDG 200 SHOWN BLDG 200 SHOWN. DRAWINGS ARE TYPICAL FOR BLDGS 200 & 300, REVERSED/MIRRORED FOR BLDGS 400 & 500

CEILING PLAN LEGEND

NEW GWB CEILING

NEW 2'X4' LAY-IN LED LIGHT FIXTURE NEW SURFACE MOUNTED LED LIGHT FIXTURE

- NEW MECH. SUPPLY DIFFUSER
- NEW MECH. RETURN GRILL NEW SPRINKLER HEAD
- S→ EXIT SIGN

CEILING PLAN GENERAL NOTES

- 1. EXISTING CEILING FINISHES NOTED ON DEMOLITION CEILING PLANS ARE TO BE DEMOLISHED UNLESS NOTED OTHERWISE. SEE NEW WORK REFLECTED CEILING PLANS FOR NEW FINISHES AND EXISTING AREAS TO BE PATCHED.
- 2. ALL SURFACE CONDUIT, RACEWAYS, AND PIPES ROUTING TO/FROM THE AREA OF WORK THROUGH ADJACENT DWELLING UNITS ARE TO BE PAINTED
- TO MATCH CEILINGS OUTSIDE OF THE AREA OF WORK. 3. SEE MEP DRAWINGS FOR FIXTURES AND SEE FIRE PROTECTION DRAWINGS FOR FIRE SUPPRESSION SCOPE.

FLOOR PLAN GENERAL NOTES

- 1. ALL EXISTING ITEMS AND SURFACES TO REMAIN ARE TO BE PROTECTED DURING CONSTRUCTION.
- 2. MPE EQUIPMENT SHOWN ON ARCH DRAWINGS FOR LAYOUT PURPOSES ONLY. GC TO COORDINATE WITH MPE PLANS. MC AND EC TO PROVIDE ROUGH-IN AND FINAL CONNECTIONS AS-NOTED. NOT IN CONTRACT (NIC) FURNITURE SHOWN FOR LAYOUT PURPOSES ONLY.
- 3. WHERE DEMOLISHED WALLS ARE INDICATED, GC TO PATCH AND REPAIR DEMOLISHED WALL ENDS AND INTERSECTING WALL SURFACES AS REQUIRED TO ATTAIN CONSISTENT AND LEVEL FINISH SURFACE, TYP. 4. GC TO INSTALL NEW FLOORING & BUILD UP TO EXISTING FLOOR FINISH AS REQUIRED TO MATCH ELEVATION. GC TO PROVIDE SMOOTH TRANSITION (WITH APPROPRIATE ACCESSORIES) WHERE NEW FLOORS MEET EXISTING FLOOR FINISH.
- GC TO PATCH / PROVIDE NEW SUBSTRATE PER MANUFACTURES RECOMMENDATIONS / GUIDELINES TO CREATE A SMOOTH AND LEVEL SURFACE IN AREAS TO RECEIVE NEW FLOORS. 5. GC TO PROVIDE JOINT SEALANTS FOR JOINTS BETWEEN EQUIPMENT, PARTITIONS, FLOORING, ETC. AS REQUIRED
- 6. GC TO SEE DOOR SCHEDULE FOR ADDITIONAL WORK TO BE PERFORMED ON DOORS, FRAMES DOOR FINISH, AND/OR DOOR HARDWARE.
- 7. ALL PENETRATIONS THROUGH FIRE-RATED WALL AND FLOOR ASSEMBLIES, BOTH NEW AND EXISTING, SHALL BE FIRE STOPPED / RATED. ALL TRADES TO PROVIDE FIRESTOPPING TO MAINTAIN FIRE RATING. SEE CODE AND FLOOR PLANS.
- 8. NO NOTE ON DRAWINGS SHALI 9. WHERE ASBESTOS CONTAININ ASBESTOS ABATEMENT CONTR PERMITS, FEES, INSURANCE AN OPERATIONS AND DISPOSAL IN
- LOCAL GOVERNMENT REGULA 10. SEE PROJECT MANUAL FOR AE BE ABATED, GC TO PATCH WAL
- 11. CONTRACTOR IS RESPONSIBL CONSTRUCTION ACTIVITIES.
- 12. ALL PARTITION AND FURRING ROOMS, ETC., TO USE MOLD A

	(1)	
	2	
\$12,500 PER FOR PATCHING IOR GWB WALLS EA OF WORK. NIT-PRICE	3	
800, REVERSED/MIRRORED FOR BI	LDGS 400 & 500	
L DIMINISH THE REQUIREMENTS (OF THE GENERAL CONDITIONS.	
NG MATERIAL IS TO BE REMOVED RACTOR WHO SHALL FURNISH AL ND EQUIPMENT NECESSARY TO O N ACCORDANCE WITH EPA, OSHA ATIONS. BATEMENT SCOPE. WHERE ASBE LLS, FLOOR AND/OR INSTALL NEV E FOR PATCH AND REPAIR OF EX WALLS IN HIGH-HUMIDITY/MOISTU ND MILDEW RESISTANT GWB.	OR DISTURBED, GC IS RESPONSIBLE FOR HIRING L LABOR, MATERIALS, EMPLOYEE TRAINING, SEI CARRY OUT THE ASBESTOS REMOVAL, DECONTA , AND ALL OTHER APPLICABLE FEDERAL, STATE, ESTOS PLASTER/MATERIAL AND/OR VAT IS INDIC/ V FLOORING AS SCHEDULED. ISTING SURFACES OR NEW WORK AS A RESULT JRE ENVIRONMENTS SUCH AS BATHROOMS, LAU	3 AN RVICES, AMINATION , AND ATED TO OF JNDRY

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	collaborative										
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	ROWAN EPA - LAUNDRY ROOMS										
	400 EDGEWOOD DRIVE, GLASSBORO, NJ 08028										
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- BIC	Sheet Title and No.										
/2024	PARTIAL PLANS - FLOOR &										
12/19,	REFLECTED										
PRINT	A101										

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- ATTENUATION MATERIAL, SEE WALL SCHEDULE CONT. PAINTABLE SEALANT, TYP. BOTH SIDES

HM FRAME, SEE DOOR DOOR PANEL, SEE SCHEDULE FOR TYPE

METAL FLASHING BRICK SOLDIER COURSE WEEP HOLES -BRICK LINTEL, SEE STRUCTURAL DOCS BACKER ROD & PERIMETER SEALANT FIXED WINDOWS, SEE SCHEDULE EXTERIOR SIDE SIDE OF BRICK BEYOND BACKER ROD & PERIMETER SEALANT NAILING FIN FLASHING

SEE WALL SECTIONS FOR FULL ASSEMBLY (FRAMING, WRAP, AND INSULATION)

BOX BEAM HEADER, SEE STRUCTURAL - PLYWOOD BLOCKING

4250i HEAVY DUTY SLIDE-IN ANCHOR 3/16" (NOM.) FORMED STEEL WITH HEAD/JAMB/SILL EXTENSION

INTERIOR SIDE

- PAINTED GWB SILL & RETURNS, MATCH AJD

PLYWOOD BLOCKING

4250i HEAVY DUTY SLIDE-IN ANCHOR 3/16" (NOM.) FORMED STEEL WITH HEAD/JAMB/SILL EXTENSION

4 DETAIL - WINDOW SECTION A701 1 1/2" = 1'-0"

SEE WALL SECTION & BUILDING SECTIONS FOR ROOF ASSEMBLY

SEE STRUCTURAL DRAWINGS FOR ROOF FRAMING

RIM JOIST

METAL FASCIA MATCHING ROOFING SYSTEM

DRIP-EDGE SECURED WITH 22 GA. CLEAT

FASTENER AND SEALANT

21

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FOR ALTERNATE STUD SIZES. SEE GENERAL NOTES FOR GWB AT HIGH-MOISTURE AREAS.

RAMING SIZES RING, SEE TYPES " " "	METAL FRAMING SIZ 0 = 7/8" 1 = 1 5/8" 2 = 2 1/2" 3 = 3 5/8" 4 = 4" 6 = 6" 8 = 8"
4	MASONRY
/4"	4 = 3 5/8"
	6 = 5 5/8"
	8 = 7 5/8"

6. WHERE DEMOLISHED WALLS ARE INDICATED, GC TO PATCH AND REPAIR DEMOLISHED WALL ENDS AND INTERSECTING WALL SURFACES AS REQUIRED TO ATTAIN CONSISTENT AND LEVEL FINISH SURFACE, TYP. SEE FLOOR AND DEMO PLANS.

7. GC TO PROVIDE JOINT SEALANTS FOR JOINTS BETWEEN EQUIPMENT, PARTITIONS, FLOORING, ETC. AS REQUIRED.

Architect: collaborative 4818 Baltimore Avenue Philadelphia, PA 19143 215.386.8191 www.ozcollaborative.com Consultants: O'DONNELLS NACCARATO STRUCTURAL ENGINEERS BCCLT Seal: Project: ROWAN UNIVERSITY ROWAN EPA -LAUNDRY ROOMS 400 EDGEWOOD DRIVE, GLASSBORO, NJ 08028 12/19/2024 Issue Date: **Revision Schedule** Drawn By Description No. Date The Contractor on site shall verify all dimensions and existing conditions. The contractor is required to perform all work in compliance with applicable codes and regulations of governing authorities having jurisdiction. All drawings, specifications, plans, ideas, arrangements and designs represented or referred to are the property of and owned by O Z Collaborative, whether the project for which they are made is executed or not. None of the above may be disclosed or given to or used by any person, firm or corporation for any use or purpose whatsoever including any other project, except upon written permission and direction of O Z Collaborative. Sheet Title and No. SCHEDULE & DETAILS -PARTITIONS

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BID

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TAGS LEGEND

W-4 1 WALL TAG SEE PARTITION SCHEDULE

	DOOR										
DOOR #	ROOM NAME	DOOR CONFIG.	PANEL TYPE	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	MATERIAL	FINISH	HW SE
201	LAUNDRY ROOM	SG	AL2	3'-0"	7'-0"	1 3/4"	ALUM	DARK BRONZE ANODIZED	ALUM	DARK BRONZE ANODIZED	1.0
202	IRT ROOM	SG	F	3'-0"	7'-0"	1 3/4"	HM	PTD	HM	PTD	2.0
301	LAUNDRY ROOM	SG	AL2	3'-0"	7'-0"	1 3/4"	ALUM	DARK BRONZE ANODIZED	ALUM	DARK BRONZE ANODIZED	1.0
302	IRT ROOM	SG	F	3'-0"	7'-0"	1 3/4"	HM	PTD	HM	PTD	2.0
401	LAUNDRY ROOM	SG	AL2	3'-0"	7'-0"	1 3/4"	ALUM	DARK BRONZE ANODIZED	ALUM	DARK BRONZE ANODIZED	1.0
402	IRT ROOM	SG	F	3'-0"	7'-0"	1 3/4"	HM	PTD	HM	PTD	2.0
501	LAUNDRY ROOM	SG	AL2	3'-0"	7'-0"	1 3/4"	ALUM	DARK BRONZE ANODIZED	ALUM	DARK BRONZE ANODIZED	1.0
502	IRT ROOM	SG	F	3'-0"	7'-0"	1 3/4"	HM	PTD	HM	PTD	2.0

WINDOW SCHEDULE									
TAG	HEIGHT	WIDTH	MANUFACTURER	MATERIAL	FINISH	COMMENTS			
W1	2'-0"	2'-0"	WAUSAU WINDOWS	ALUM	DARK BRONZE ANODIZED	BOD: INVENT XP DUAL GLAZED			
W1	2'-0"	2'-0"	WAUSAU WINDOWS	ALUM	DARK BRONZE ANODIZED	BOD: INVENT XP DUAL GLAZED			
W1	2'-0"	2'-0"	WAUSAU WINDOWS	ALUM	DARK BRONZE ANODIZED	BOD: INVENT XP DUAL GLAZED			
W1	2'-0"	2'-0"	WAUSAU WINDOWS	ALUM	DARK BRONZE ANODIZED	BOD: INVENT XP DUAL GLAZED			
W1	2'-0"	2'-0"	WAUSAU WINDOWS	ALUM	DARK BRONZE ANODIZED	BOD: INVENT XP DUAL GLAZED			
W1	2'-0"	2'-0"	WAUSAU WINDOWS	ALUM	DARK BRONZE ANODIZED	BOD: INVENT XP DUAL GLAZED			
W1	2'-0"	2'-0"	WAUSAU WINDOWS	ALUM	DARK BRONZE ANODIZED	BOD: INVENT XP DUAL GLAZED			
W1	2'-0"	2'-0"	WAUSAU WINDOWS	ALUM	DARK BRONZE ANODIZED	BOD: INVENT XP DUAL GLAZED			
ΤΟΤΑΙ	: 8								

2'-0" 5 5 **W1**

NOTES: MAXIMUM U-FACTOR = 0.20 MAXIMUM GLAZING SHGC = 0.40

TYPES - WINDOWS N.T.S.

				FINIS	H TAG KEY		
TAG	MATERIAL	PRODUCT NAME	MANUFACTURER	COLOR (CODE / NAME)	FINISH TYPE	SIZE	PATTERN
042100				· · · · ·			
BR-1A	MASONRY FACE BRICK	BRICK	GLEN-GERY	COPENHAGEN	VELOUR	MODULAR	RUNNING BOND
BR-1B	MASONRY FACE BRICK	BRICK	GLEN-GERY	COPENHAGEN	VELOUR	MODULAR	SOLDIER COURSE
BR-2A	MASONRY FACE BRICK	BRICK	GLEN-GERY	MODERN GRAY	SMOOTH	MODULAR	RUNNING BOND
BR-2B	MASONRY FACE BRICK	BRICK	GLEN-GERY	MODERN GRAY	SMOOTH	MODULAR	SOLDIER COURSE
064100		1					
HPL-1	LAMINATE	HIGH WEAR HPL	WILSONART	13089-60 / SUNNY SIDE UP	MATTE	N/A	N/A
095100		1			I.		
APC-1	ACOUSTIC CEILING TILE	ULTIMA 1913	ARMSTRONG	WHITE	FINE FISSURED	24 X 48"	SQUARE EDGE, LAY-IN
096500		1					
RB-1	VINYL WALL BASE	COVE BASE	FLEXCO	TBD	N/A	4"	
096723		1					
IRB-1	EPOXY COVE BASE	INTEGRATED WALL BASE	SHERWIN WILLIAMS	RED TILE	MEDIUM GRIT	N/A	
R-1	EPOXY FLOOR SYSTEM	RESUFLOR TOPFLOOR MER 1	SHERWIN WILLIAMS	RED TILE	MEDIUM GRIT	N/A	
099000		1		- I	I		L. L
P-1	ACRYLIC PAINT	SEE SPEC	SHERWIN WILLIAMS	SW-6385 / DOVER WHITE	EGGSHELL	N/A	
P-2	ACRYLIC PAINT	SEE SPEC	SHERWIN WILLIAMS	SW-6385 / DOVER WHITE	SEMI-GLOSS	N/A	

SCHEDULE - ROOM FINISHES										
ROOM FINISH										
NUMBER	NAME	CEILING	WALL	BASE	FLOOR					
201	LAUNDRY ROOM	APC-1	P-1	IRB-1	R-1					
202	IRT ROOM	APC-1	P-1	IRB-1	R-1					
301	LAUNDRY ROOM	APC-1	P-1	IRB-1	R-1					
302	IRT ROOM	APC-1	P-1	IRB-1	R-1					
401	LAUNDRY ROOM	APC-1	P-1	IRB-1	R-1					
402	IRT ROOM	APC-1	P-1	IRB-1	R-1					
501	LAUNDRY ROOM	APC-1	P-1	IRB-1	R-1					
502	IRT ROOM	APC-1	P-1	IRB-1	R-1					

- 101 DOOR MARK SEE DOOR SCHEDULE
- (1) WINDOW TAG SEE WINDOW SCHEDULE
- APC-1 CEILING FINISH TAG P-1 WALL FINISH TAG (IRB-1) WALL BASE TAG (R-1) FLOOR FINISH TAG NOTE: REFER TO FINISH KEY

NOTES - DOORS/FRAMES/HARDWARE

- ROWAN STANDARD SMART LOCK = SCHLAGE WIRELESS CYLINDRICAL LOCK NDE STANDARD, PROVIDED BY ROWAN UNIVERSITY AND INSTALLED BY GC.
 COLORS, STYLES, FINISHES, OR OTHER OPTIONS NOT DEFINED WITHIN THE DRAWINGS OR SPECIFICATIONS ARE TO BE SELECTED BY ARCHITECT FROM MANUFACTURERS FULL RANGE OF AVAILABLE OPTIONS. PROVIDE PRODUCT DATA AND DOOR HARDWARE SUBMITTALS FOR SELECTIONS AND CONFIRMATIONS.
- SEE SPECIFICATIONS FOR HM DOOR INFORMATION AND HARDWARE SCHEDULE.
 REFER TO DETAILS ON A701
 MAXIMUM U-FACTOR = 0.40
 MAXIMUM GLAZING SHGC = 0.40

 - COMMENTS BOD: KAWNEER INSULPOUR 250T TRIPLE-GLAZED BOD: KAWNEER INSULPOUR 250T TRIPLE-GLAZED BOD: KAWNEER INSULPOUR 250T TRIPLE-GLAZED BOD: KAWNEER INSULPOUR 250T TRIPLE-GLAZED

	COMMENTS
	GLEN-GERY G406 MORTAR
	GLEN-GERY G406 MORTAR
	GLEN-GERY G602 MORTAR
	GLEN-GERY G602 MORTAR
	INCLUDE MATCHING EDGEBANDING AT FRONT EDGE OF EACH COUNTER
I	WITH ARMSTRONG 15/16" PRELUDE TRACK SYSTEM IN MATCHING WHITE
	TBD
	TBD
	AT GWB WALLS U.N.O.
	AT HM DOORS & FRAMES U.N.O.

	Architect:						
	4818 Baltimore Avenue Philadelphia, PA 19143 215.386.8191 www.ozcollaborative.com						
	Consultants:						
	<image/> <image/>						
	Seal:						
	Project:						
	ROWAN UNIVERSITY						
	ROWAN FPA -						
	LAUNDRY ROOMS						
	400 EDGEWOOD DRIVE, GLASSBORO, NJ 08028						
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24 - E	Sheet Title and No. SCHEDULES -						
9/2024 - E	Sheet Title and No. SCHEDULES - DOORS, FRAMES,						
12/19/2024 - E	Sheet Title and No. SCHEDULES - DOORS, FRAMES, WINDOWS, & FINISHES						
VTED 12/19/2024 - F	Sheet Title and No. SCHEDULES - DOORS, FRAMES, WINDOWS, & FINISHES						
PRINTED 12/19/2024 - I	Sheet Title and No. SCHEDULES - DOORS, FRAMES, WINDOWS, & FINISHES A810						

HVAC SYMBOLS AND ABBREVIATIONS LEGEND

SYMBOLS

REFRIGERANT LINESET CONDENSATE ADJUSTABLE ROOM THERMOSTAT FAN MOTOR SPEED DIAL

O.A.	OUTSIDE AIR
S.A.	SUPPLY AIR
R.A.	RETURN AIR
CAP.	CAPACITY
PRESS.	PRESSURE
TEMP.	TEMPERATURE
MIN.	MINIMUM
MAX.	MAXIMUM
SIM.	SIMILAR
AUTO.	AUTOMATIC
EX	EXISTING
CONC.	CONCRETE
AHU	AIR HANDLING UNIT
GPM	GALLONS PER MINUTE
SF	SUPPLY FAN
RF	RETURN FAN
BTUH	BTU/H
A.F.F.	ABOVE FINISHED FLOOR
EF	EXHAUST FAN
TYP.	TYPICAL
CONN.	CONNECTION
AS	AIR SEPARATOR
ET	EXPANSION TANK
FD	FIRE DAMPER
F.D.	FLOOR DRAIN
FSD	FIRE SMOKE DAMPER
HTR	HEATER
VAV	VARIABLE AIR VOLUME
CLG.	CEILING
T.C.	TEMPERATURE CONTROL
DN.	DOWN
MECH.	MECHANICAL
RM	ROOM
S.P.	STATIC PRESSURE
SHT.	SHEET
ASSOC.	ASSOCIATED
REF.	REFERENCE
EAT	ENTERING AIR TEMPERATURE
LAT	LEAVING AIR TEMPERATURE
EWT	ENTERING WATER TEMPERATURE
LWT	LEAVING WATER TEMPERTATURE
UH	UNIT HEATER
AAV	AUTOMATIC AIR VENT
MAV	MANUAL AIR VENT
SP	SETPOINT

GENERAL NOTES:

- A. CONTRACTOR SHALL PROVIDE MANUFACTURER'S RECOMMENDED ACCESS TO ALL EQUIPMENT, TERMINAL UNITS AND VALVES. ACCESS SHALL BE REMOVABLE CEILING TILES OR CEILING ACCESS PANELS. COORDINATE LOCATION OF MECHANICAL EQUIPMENT WITH OTHER TRADES TO AVOID CONFLICT.
- B. REFER TO ARCHITECTUAL REFLECTED CEILING PLAN FOR LOCATION OF GRILLES AND DIFFUSERS.
- C. FOR ALL WALLS THAT ARE EXTENDED TO STRUCTURE PROVIDE SLEEVES FOR PIPING AND DUCTWORK PENETRATING WALLS (REFERENCE SPECIFICATIONS).
- D. DRAWINGS ARE DIAGRAMMATIC. PROVIDE ADDITIONAL OFFSETS, TRANSITIONS, ETC. AS REQUIRED TO AVOID INTERFERENCE'S ENCOUNTERED. FULL COORDINATION DRAWINGS WITH OTHER TRADES ARE REQUIRED.
- E. PROVIDE FIRE DAMPERS AT ALL DUCT FLOOR PENETRATIONS NOT CONCEALED WITHIN A FIRE RATED CHASE.
- F. IF THE CONTRACTOR DOES NOT CLEARLY UNDERSTAND THESE PLANS OR IS NOT SURE OF THEIR MEANING. HE SHOULD OBTAIN THE ARCHITECTS WRITTEN EXPLANATION AND INTERPRETATION PRIOR TO SUBMITTING HIS BID, SINCE THE CONTRACTORS WILL BE HELD RIGIDLY TO THE INTERPRETATION OF THE ARCHITECT.
- G. CUT, PATCH, REPAIR AND RESTORE TO ORIGINAL CONDITION ALL OPENINGS IN WALLS, FLOORS, CEILINGS, ETC. WHERE REQUIRED. PATCHING SHALL MATCH EXISTING CONSTRUCTION & FINISHES. COORDINATE ALL PATCHING AND FINISHES WITH ARCHITECT.
- H. RELOCATION OF EXISTING PIPE AND EQUIPMENT HANGERS REQUIRED FOR INSTALLATION WORK SHALL BE CONSIDERED PART OF THIS CONTRACT.
- I. PROVIDE BALANCING DAMPERS FOR ALL S.A., R.A., AND E.A. DUCT BRANCH TAKEOFFS AND RUNOUTS TO GRILLES, DIFFUSERS, ETC.
- J. USE RADIUS ELBOWS. IF SPACE ISN'T AVAILABLE, MITERED ELBOWS ARE ACCEPTABLE. PROVIDE TURNING VANES IN ALL RECTANGULAR MITERED ELBOWS, SUPPLY AND RETURN DUCTWORK.
- K. INSTALL FLEX DUCTS FULLY EXTENDED, DO NOT BEND DUCTS ACROSS SHARP CORNERS. BENDS OF FLEX DUCTS SHALL NOT EXCEED A MINIMUM OF 1 DUCT DIAMETER. AVOID CONTACT OF FLEX DUCT WITH METAL FIXTURES, WATER LINES, PIPES, OR CONDUITS.

	SCHEDULE OF MINI SPLIT SYSTEMS												
NOTES:													
1. PROVIDE WI	1. PROVIDE WITH REMOTE MOUNTED LCD DISPLAY WITH TEMPERATURE SETTING AND FAN SPEED CONTROL.												
2. INDOOR UNI	T SHALL BE POWERED) BY OUTDOOR UNIT	, ROUTE CONDUCTOR	PER MANUFACT	JRER RECOM	MENDATIONS.							
3. CONTRACTO	OR SHALL PIPE UNITS F	PER MANUFACTURE	R RECOMMENDATIONS										
4. VALUES LIST	ED CORRESPOND TO	HIGH SETTING OF T											
5. SHOP DRAW	INGS MUST INCLUDE I	PERFORMANCE DAT	A OR THEY WILL BE RE	JECTED.									
			TOTAL COOLING	HEATING		ELECTRIC	CAL CHARACT	ERISTICS					
MARK	MANUFACTURER	MODEL No.	CAPACITY TOTAL	CAPACITY	CFM	VOLTAGE	PHASE	MCA	NOTES				
DSS-1	MITSUBISHI	TPKA0A012LA10A	12000.0 Btu/h	0.0 Btu/h	320	208	1	1 A	ALL				
DSS-2	MITSUBISHI	NTXWST12B112AA	12000.0 Btu/h	14400.0 Btu/h	276	208	1	1 A	ALL				

SCHEDULE OF CONDENSER UNITS & HEAT PUMPS

NOTES: 1. SLOPE SUCTION LINE TOWARD EVAPORATOR. 2. PROVIDE WITH MANUFACTURER CONDENSER WALL BRACKET AND INSTALL PER MANUFACTURER RECOMMENDATIONS. 3. ROUTE REFRIGERANT PIPING PER MANUFACTURER RECOMMENDATIONS. 4. SHOP DRAWINGS MUST INCLUDE PERFORMANCE DATA OR THEY WILL BE REJECTED.

				MINIMUM	MINIMUM STARTING	ELECTRIC	CAL CHARACT	ERISTICS	
				EFFICIENCY	AND OPERATING			MCA/MOP	
MARK	MANUFACTURER	MODEL No.	CAPACITY	(SEER)	TEMPERATURE	VOLTAGE	PHASE	(AMPS)	NOTES
CU-1	MITSUBISHI	TRUYA0121KA70NA	120000.0 Btu/h	23.1	0 °F	208	1	10	ALL
HP-2	MITSUBISHI	NTXSST12B112AA	120000.0 Btu/h	23.3	23 °F	208	1	11	ALL

FIRST FLOOR HVAC PLAN SCALE: 1/8" = 1'-0"

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	Seal:
	Project: ROWAN UNIVERSITY ROWAN EPA - LAUNDRY
	400 EDGEWOOD DRIVE, GLASSBORO, NJ 08028 Issue Date: 12/19/2024 Revision Schedule
	No.DateDrawn ByDescriptionII<
- BID SET	The Contractor on site shall verify all dimensions and existing conditions. The contractor is required to perform all work in compliance with applicable codes and regulations of governing authorities having jurisdiction. All drawings, specifications, plans, ideas, arrangements and designs represented or referred to are the property of and owned by O Z Collaborative, whether the project for which they are made is executed or not. None of the above may be disclosed or given to or used by any person, firm or corporation for any use or purpose whatsoever including any other project, except upon written permission and direction of O Z Collaborative.
PRINTED 12/19/2024	BUILDING 200 - FIRST FLOOR HVAC PLAN

Project No.: ©OZ Collaborative 2024

	SCHEDULE OF PLUMBING FIXTURES																			
					FIXTURE	FIXTURE	FIXTURE		FAU	CET / VALVE						DRAIN		DOMESTIC	DOMESTIC	SANITAR
MAF	RK	FIXTURE	MANUFACTURER	MODEL No.	TYPE	MATERIAL	STYLE	MANUFACTURER	MODEL No.	SPOUT	HANDLES	CENTERS	SUPPLY STOPS	TYPE	SIZE	TRAP / ARM SIZE	TAILPIECE	CW	HW	WASTE
WE	31	WASHER BOX	GUY GRAY	SSWB1		304 STAINLESS STEEL, 20 GAUGE							1/4 TURN VALVE SUPPLIED WITH BOX		2"			3/4"	3/4"	2"

SCHEDULE OF DRAINS AND CLEANOUTS												
MARK	FIXTURE	MANUFACTURER	MODEL No.	TYPE	MATERIAL	STYLE	REMARKS					
FCO	FLOOR CLEANOUT	ZURN	ZN1400-VP-BP	NO HUB OR NEO-LOCK	CAST IRON / NICKEL BRONZE TOP	SCORIATED ROUND TOP	VANDAL RESISTANT SECURED TOP. PROVIDE NICKEL BRONZE TOP IN FINISHED AREAS, BRONZE TOP IN UNFINISHED.					
FD1	FD1 FLOOR DRAIN ZURN ZN415-B NO HUB- OR NEO-LOCK CAST IRON / NICKEL BRONZE TOP 6" ROUND PROVIDE 4" DEEP SEAL P-TRAP WITH CLEANOUT.											

SCHEDULE OF DOMESTIC WATER HEATERS

MARK	MANUFACTURER	MODEL NO.	FLOW AT 80 °F TEMPERATURE RISE (GPM)	BTUH INPUT	HOT WATER TEMP OUT	EF					
<u>DWH1</u>	A.O. SMITH	ATHR-199X3	5	199,000	120						
NOTES:											
1. FUE	EL SOURCE SHALL BE NATUF	RAL GAS.									
2. PROVIDE ASME RATED RELIEF VALVE AND CONDENSATE NEUTRALIZATION KIT FOR WATER HEATER.											
3. PR	3. PROVIDE ALL REQUIRED CLEARANCES AROUND WATER HEATER. CONTRACTOR SHALL VERIFY WATER HEATER WILL FIT IN ALLOTTED										
4 FU	BNISH AND INSTALL OUTSIDE	AIR PIPE EXHAUST PIPE AND C	OMPLETE SYSTEM FOR WATER	HEATER COM	IBUSTION AND VE	NTING					

 FURNISH AND INSTALL OUTSIDE AIR PIPE, EXHAUST PIPE, AND COMPLETE SYSTEM FOR WATER HEATER COMBUSTION AND VENTING F
 CONTRACTOR SHALL BE RESPONSIBLE FOR ALL STATE FORMS, SUBMITTALS, FEES, PERMITS, ETC. AS REQUIRED FOR WATER HEATER 6. BASIS OF DESIGN IS INDICATED IN SCHEDULE, REFER TO SPECIFICATIONS FOR OTHER APPROVED MANUFACTURERS. EQUIPMENT MUST MEET ALL THE PERFORMANCE REQUIREMENTS INDICATED

UNION.

SEDIMENT TRAP

- PIPE SIZES MAY VARY, MATCH UNIT CONNECTION.

2 TYPICAL GAS PIPING CONNECTION DETAIL SCALE: NONE

FICIENCY	REMARKS	MARK
95%	SEE BELOW	<u>DWH1</u>
D SPACE. REQUIREMEN RINSTALLATI	ITS. ON.	

PLUMBING LEGEND

-			ABBREVIATION	<u>3D</u>	<u>SYMBOLS</u>	<u>2D</u>	F.	REMOVA UTILIZED TEMPOR
	FLOOR DRAIN	СО	CLEANOUT		و	SANITARY WASTE		CONSTR
		CW	DOMESTIC COLD WATER		٩	SANITARY VENT	G.	EXISTING
		DWH	DOMESTIC WATER HEATER		сG	NATURAL GAS		EXISTINO REQUIR
		EX	EXISTING		CW	DOMESTIC COLD WATER		THE SPE
		FCO	FLOOR CLEANOUT		<u></u> HW	DOMESTIC HOT WATER		GUARAN
		FD	FLOOR DRAIN			GATE VALVE		COORDI
		G	NATURAL GAS			BALL VALVE	H.	PLUMBIN
		HW	DOMESTIC HOT WATER	ß		CHECK VALVE	I.	REPORT OF THIS
		V	SANITARY VENT	0	● =	WATER HAMMER ARRESTOR	J.	THE DRA
		VTR	VENT THRU ROOF			GAS VALVE		DIAGRAN CONDITI
		W	SANITARY WASTE	٠		UNION		PLUMBIN ETC. & S
		WB	WASHER BOX			FLOW-IN DIRECTION OF ARROW	К.	LOCATE
		YCO	YARD CLEANOUT		<u> </u>	VALVE IN VERTICAL		IDENTIFI WITHIN
						RISE OR DROP	L.	SEAL AL
						BRANCH CONNECTION		WALLS. ARCHITE
					<u> </u>	RISER DOWN	М.	CONTRA
					O	RISE UP		APPLIES
						END CAP		
					•	CONNECTION POINT - NEW TO EXISTING		
						LIMIT OF REMOVAL		
					'//////////////////////////////////////	INDICATES REMOVAL		
					(?)	KEYNOTE		

INTERIOR AND FLOOR PIPE SLEEVE DETAIL

		Architect:	•
SANITARY WASTE SANITARY VENT REMARKS 2" 1 1/2" MOUNT 42" A.F.F. PROVIDE ADDITIONAL FRAMING			rative Avenue
AROUND BOX FOR SECURE MOUNTING.		215.386.8191 www.ozcollabor	ative.com
		Consultants:	
GENERAL NOTES:	APPLIES TO ALL SHEETS		
 A. THE REMOVAL DRAWINGS SERVE TO AID THE CONTRACTOR IN THE EVALUAT EXTENT OF DEMOLITION, BUT SHALL NOT BE HELD TO ALL INCLUSIVE. B. CONDITIONS SHOWN ON THE PLANS RELATIVE TO THE WORK TO BE PERFORMATION AVAILABLE AND SUBJECT TO VERIFICATION VER 		O'DONI NACCA Structural	NELL& RATO Engineers
AND ELEVATIONS OF UTILITIES TO BE CROSSED OR CONNECTED. CORRECT CAUSED BY FAILURE TO PERFORM SUCH VERIFICATIONS AT NO EXPENSE TO IMMEDIATELY NOTIFY ARCHITECT AND ENGINEER OF CONDITION IN CONFLIC DETAILS/PLANS.	T WITH THE	₽ BC	CLT
C. FOR FURTHER INFORMATION WITH REGARD TO THE EXTENT OF DEMOLITION THE NEW CONSTRUCTION DRAWINGS AND THE ARCHITECTURAL DRAWINGS WORK TO BE PERFORMED.	& REMOVALS, SEE WHICH SHOW	CONSULTI	NG ENGINEERS
D. CUT, PATCH & REPAIR ALL OPENINGS IN WALLS, FLOORS, CEILING, ETC WHI THE REMOVAL OF EQUIPMENT AND ACCESSORIES AND NEW CONSTRUCTION MATCH EXISTING CONSTRUCTION & FINISHES. COORDINATE ALL PATCHING WITH ARCHITECT.	ERE REQUIRED BY I. PATCHING SHALL AND FINISHES	Seal:	
E. IF PLUMBING LINES SERVING PLUMBING EQUIPMENT TO REMAIN MUST BE RE DEMOLITION OR NEW CONSTRUCTION, THE UTILITIES SHALL BE RELOCATED THAT IS ACCEPTABLE BY THE ARCHITECT/ENGINEER. PROPER SLOPE, MATEI OF PIPING SHALL BE MAINTAINED TO INSURE EQUIPMENT IS MADE FULLY OP	MOVED DUE TO IN A MANNER RIALS, AND SIZES ERATIONAL.		
F. REMOVAL OF EXISTING UTILITIES SHALL BE MADE SO THAT SERVICE TO OTH UTILIZED BY THE OWNER ARE NOT INTERRUPTED WITHOUT CONSENT FROM TEMPORARY VALVES AND TEMPORARY SERVICES REQUIRED DURING DEMO CONSTRUCTION.	ER AREAS OWNER. PROVIDE LITION AND NEW		
G. EXISTING INFORMATION SHOWN ON FLOOR PLANS IS FROM ORIGINAL RECOM FIELD INVESTIGATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO V EXISTING CONDITIONS IN THE FIELD BEFORE COMMENCEMENT OF WORK. TH REQUIRED TO REPORT TO THE ARCHITECT DISCREPANCIES OR INCONSISTE THE SPECIFIED DESIGN AND EXISTING CONDITIONS FOR CLARIFICATION PRIC COMMENCEMENT OF THE WORK. ABSOLUTE ACCURACY OF THE DRAWINGS GUARANTEED. WHILE EVERY EFFORT HAS BEEN MADE TO COORDINATE THE EXISTING EQUIPMENT, PIPING, ETC. IT IS THE RESPONSIBILITY OF THE CONTR	RD DRAWINGS AND ERIFY ALL IE CONTRACTOR IS NCIES BETWEEN OR TO CANNOT BE LOCATION OF RACTOR TO	Project: ROWAN UNI	VERSITY
COORDINATE THE EXACT REQUIREMENTS GOVERNED BY ACTUAL JOB COND H. PLUMBING SYSTEMS SHALL BE DESIGNED AND INSTALLED PER LOCAL PLUMI			
 I. REPORT TO ARCHITECT IN WRITING, CONDITIONS WHICH WILL PREVENT PROOF OF THIS WORK. J. THE DRAWINGS SHOWING THE LOCATIONS OF PLUMBING EQUIPMENT, PIPING DIAGRAMMATIC. CONTRACTOR SHALL PROVIDE ALL OFFSETS, ADJUSTMENTS CONDITIONS MAY NOT PERMIT THEIR INSTALLATION AT THE LOCATIONS SHO ON DIVIDE ON THE OFFSETS OF STREETS. 	G, ETC. ARE S ETC. JOB WN. THE	ROWAN EPA ROOMS	- LAUNDRY
 K. LOCATE VALVES FOR SERVICE ACCESSIBILITY. PROVIDE VALVE TAGS & PLAS IDENTIFICATION ON CEILING FOR ALL NEW AND EXISTING VALVES AND EQUIP WITHIN THE CONSTRUCTION LIMITS AS INDICATED IN THE SPECIFICATIONS. 	TIC LAMINATE MENT LOCATED	400 EDGEWO	DOD DRIVE,
L. SEAL ALL OPENINGS NEW & EXISTING AROUND PLUMBING & UTILITY LINES PE WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF FIRE WAL ARCHITECTURAL SPECS FOR MATERIAL & INSTALLATION.	ENETRATING FIRE LS &	GLASSBORC	0, NJ 08028 12/19/2024
M. CONTRACTOR SHALL COORDINATE WITH ARCHITECT ALL CONSTRUCTION PH APPLIES TO DEMOLITION & NEW WORK.	IASING AS IT	Revision S	chedule
		No. Date By	Description
ସ			
LOCKING NUT	ER		
	ON	The Contractor on site shall ve existing conditions. The contra perform all work in compliance and regulations of governing a	erify all dimensions and actor is required to with applicable codes uthorities having
-INSULATION -HARD WOOD SADDLE		All drawings, specifications, pl arrangements and designs rep are the property of and owned	ans, ideas, presented or referred to by O Z Collaborative,
PROVIDE INSULATION BETWEEN SADDLE BLOCKS		whether the project for which t executed or not. None of the a or given to or used by any per- for any use or purpose whatso project, except upon written pe	hey are made is bove may be disclosed son, firm or corporation ever including any other ermission and direction
NOTES:		Sheet Title and	No.
 PROVIDE PIPE COVERING SHIELD AT EACH CLEVIS HANGER. INSTALL SHIELD BETWEEN BARRIER AND CLEVIS HANGER. THIS DETAIL IS TYPICAL FOR ALL OTHER HANGERS AND SUPPORTS. 	19/202	SCHEDULES	AND
SULATED PIPE HANGER DETAIL	D 12/1		
	SINTE	Pnr)1
	L		

BUILDING 200 PLUMBING REMOVAL PLAN (TYPICAL OF FOUR) 5 SCALE: 1/8" = 1'-0"

BUILDING 200 FIRST FLOOR PLUMBING PLAN (TYPICAL OF FOUR) 1 SCALE: 1/8" = 1'-0"

7 WASTE AND VENT RISER DIAGRAM (TYPICAL) SCALE: NONE

2 BUILDING 200 BELOW FIRST FLOOR PLUMBING PLAN (TYPICAL OF FOUR) SCALE: 1/8" = 1'-0"

POWER

Φ	WALL OUTLET WITH 20A, 125V DUPLEX RECEPTACLE. MOUNT 18" A.F.F. TO BOTTOM, UNLESS NOTED OTHERWISE.
⊕	WALL OUTLET WITH 20A, 125V DOUBLE DUPLEX (QUADRAPLEX) RECEPTACLE. MOUNT AT 18" A.F.F. TO BOTTOM UNLESS NOTED OTHERWISE.
\heartsuit	SPECIAL OUTLET AS NOTED. MOUNT 18" A.F.F. TO BOTTOM UNLESS NOTED OTHERWISE.
	208Y/120V SURFACE MOUNTED PANELBOARD. DASH LINE INDICATES N.E.C. CLEARANCE.
	FUSIBLE DISCONNECT SWITCH. MOUNT 4'-6" A.F.F. TO CENTER, UNLESS NOTED OTHERWISE. DASH LINE INDICATES N.E.C. CLEARANCE.
RAC	EWAYS
	CIRCUIT CONCEALED IN CEILING OR WALL. CROSSBARS INDICATE

GROUND NUMBER OF CONDUCTORS REQUIRED. CONDUIT NOT SIZED IS 3/4". CONDUCTORS NOT SIZED ARE NO. 12.

H1A-1,3 HOMERUN TO PANELBOARD INDICATED. NUMBER OF ARROWHEADS

EQUIPMENT POINT OF CONNECTION. VERIFY WITH EQUIPMENT

PROVIDER AND/OR INSTALLER.

INDICATES CIRCUIT NUMBERS. PREFIX INDICATES PANEL NUMBER.

RACEWAYS

- FIRE ALARM SYSTEM VISUAL UNIT. WALL MOUNT AT 80" A.F.F. TO BOTTOM OF BOX.
- MANUAL FIRE ALARM ADDRESSABLE PULL STATION. MOUNT 44" A.F.F. TO BOTTOM OF BOX.

					DALLAOT /		
	TYPE	NO		WATTS	DRIVER		MOUNTING
		110.	LOWENO		Braven	VOLINGE	MOOITING
	LED		6253	55	0-10V, DIMMING TO 1%	120/277	LAY-IN
	LED		6253	55	0-10V, DIMMING TO 1%	120/277	LAY-IN
10E	LED		1514	17.5	-	MVOLT	RECESSED
	LED		3500	34	0-10V, DIMMING TO 1%	MVOLT	SURFACE
	LED			1.5		120V	UNIVERSAL

- Siemon part #9U6P4A5-05R1ARU category 6A UTP plenum rated cable, yellow jacket labeled with "Rowan University" and production date
- Installation must be completed by a Siemon certified installer.
 - Only Certified Installer companies can offer an extended 30-year system warranty from The Siemon Company covering products, performance, and applications assurance.

- Unshielded Twisted Pair Cable: tested with industry standard tester and provided to IS-Networking within 5 days of completing termination of cable
- All testers must provide a certificate of calibration less than one year old from the date of the last test proved to Rowan University. The certificate must indicate: owner, make, model and serial number of said tester
- Copies of Warranty application shall be provided to IS-Networking within 10 business days of the "room ready" date. Manufacturer's warranty shall be provided within 30 days of the "room ready" date. A "D" sized Laminated As-Built shall be supplied within 10 days of "room ready" using the floor plans as the underlay with telecommunication symbols and faceplate Id's Laminateshall be mounted on the inside of the MDF or IDF.

- Closet-Rack-Panel-Port (example; 102-01-03-32 corresponds to IDF102, Rack 1, Panel 3, Port 32) with leading zeroes for single-digit designations.
- Patch panels shall be clearly labeled in black type on white label with odd numbers on top, even numbers on bottom to correspond to Cisco port mapping.
- Patch panel numbering shall start with "1" at the top of every rack

All identified surveillance camera locations receive one network jack

All connectivity shall be manufactured by the Siemon company

Architect:
$(): \forall$
collaborative 4818 Baltimore Avenue
215.386.8191
www.ozcollaborative.com
Consultants:
BCCLT CONSULTING ENGINEERS
Seal:
Project: ROWAN UNIVERSITY ROWAN EPA - LAUNDRY ROOMS
400 EDGEWOOD DRIVE, GLASSBORO, NJ 08028 Issue Date: 12/19/2024
Revision Schedule
No.Drawn ByDescription
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project, except upon written permission and direction of O Z Collaborative.
Sheet Title and No.
BUILDING 200- FIRST FLOOR ELECTRICAL
PLANS

Project No.: ©OZ Collaborative 2024

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4 KEYPLAN SCALE: NONE

Volts: 120/208 Wye Phases: 3 Wires: 4 A.I.C. Rating:

Α

Mains Type: Main Circuit Breakers Mains Rating: 225 A

С СКТ В Poles Trip **Circuit Description** 1 20 A RECEP - LAUNDRY ROOM 201 2 4 1 20 A RECEP - LAUNDRY ROOM 201 0 VA 200 VA 6 8 0 VA 200 VA 1 20 A RECEP - LAUNDRY ROOM 201 3 30 A RECEP - IRT ROOM 202 10 12 14 16 18 20 22 24 0 VA 0 VA -- | -- |---- -- --0 VA 🛛 0 VA 2 30 A CU-1 1300 VA 1300 VA 1300 VA 200 VA 1 20 A WATER HEATER 1700 VA 2800 VA 25 A 14 A

Demand Factor	Estimated Demand	Panel	Totals
100.00%	5200 VA		
100.00%	2000 VA	Total Conn. Load:	7200 VA
		Total Est. Demand:	7200 VA
		Total Conn. Current:	20 A
		Total Est. Demand Current:	20 A

Arcł	hitect: O: Z collaborative 4818 Baltimore Avenue Philadelphia, PA 19143 215.386.8191 www.ozcollaborative.com	
Con	sultants:	
		NEERS
Sea	l:	
Proj RC RC RC GL	ect:)WAN UNIVERSITY)WAN EPA - LAUNI)OMS 0 EDGEWOOD DRI .ASSBORO, NJ 080	Ó DRY VE, 28
lssue	Date: 12/19	9/2024
	Revision Schedule	
No.	Date By Description	n
The Con existing perform and reg jurisdict All draw arrange are the whether execute or given for any project, of O Z C She BL TE PL	ntractor on site shall verify all dimension conditions. The contractor is required to all work in compliance with applicable of ulations of governing authorities having on. ings, specifications, plans, ideas, ments and designs represented or refer property of and owned by O Z Collabora the project for which they are made is d or not. None of the above may be disc to or used by any person, firm or corpo use or purpose whatsoever including an except upon written permission and dire collaborative. et Title and No. JILDING 200 LECOMMUNICATIC AN	s and codes red to trive, closed ration y other ection
F	-200	

Project No.: ©OZ Collaborative 2024

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PIPE SLEEVE DETAIL SCALE: NONE

1 BUILDING 200 FIRST FLOOR FIRE PROTECTION PLAN (TYPICAL OF FOUR) SCALE: 1/8" = 1'-0"

RETURN BEND DETAIL SCALE: NONE

6 SPRINKLER HEAD PLACEMENT

SCALE: NONE

- NOT BE ALLOWED.
- PROTECTION PIPING".

FIRE PROTECTION NOTES:

- INSTALLATION.
- NOTE 4.

FIRE PROTECTION NOTES:

A. PROVIDE RECORD FLOW TEST PRIOR TO PREPARING SHOP DRAWINGS AND HYDRAULIC CALCULATIONS. CONTRACTOR SHALL PROVIDE THE FIRE SUPPRESSION DESIGN CRITERIA FORM AS PART OF THEIR STATE SUBMITTAL.

B. COORDINATE INSTALLATION OF ALL SYSTEMS WITH MECHANICAL (HVAC), PLUMBING, AND ELECTRICAL SYSTEMS. CEILING CAVITY SPACE IS RESTRICTED AND INSTALLATION OF DUCTWORK SHALL TAKE PRIORITY OVER ALL OTHER TRADES. NO EXTRA COMPENSATION WILL BE ALLOWED TO COVER THE COST OF RELOCATING SYSTEMS FOUND ENCROACHING ON SPACE REQUIRED BY MECHANICAL, PLUMBING, OR ELECTRICAL SYSTEMS.

C. PIPING ARRANGEMENT AND SPRINKLER LOCATIONS ARE DIAGRAMMATIC AND ARE PROVIDED FOR THE CONTRACTOR'S INFORMATION. EXACT ROUTING OF PIPING AND FINAL SIZING AND LOCATION OF SPRINKLERS SHALL BE SELECTED BY THE CONTRACTOR TO ACCOUNT FOR ACTUAL FIELD CONDITIONS. ALL AREAS SHALL BE PROTECTED UNLESS SPECIFICALLY NOTED OTHERWISE. COORDINATE INSTALLATION WITH CEILING HEIGHTS AND SOFFITS. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

D. EXTENDED COVERAGE SPRINKLERS MAY BE UTILIZED. THE USE OF EXTENDED COVERAGE SHALL BE CONFIRMED BY HYDRAULIC CALCULATIONS.

E. PIPING SHALL BE CONCEALED IN ALL FINISHED AREAS.

F. THIS BUILDING SHALL BE CONSIDERED LIGHT/ORDINARY HAZARD OCCUPANCY WITH EXCEPTIONS PER NFPA 13, STATE, AND LOCAL CODES. DESIGN DENSITIES SHALL BE IN ACCORDANCE WITH THE OWNER'S INSURANCE UNDERWRITER.

G. INSTALL SPRINKLER MAINS AS HIGH AS POSSIBLE IN CEILING CAVITIES. SOME BRANCH LINES WILL REQUIRE ARM OVERS TO SUPPLY SPRINKLERS BELOW DUCTWORK. REFER TO MECHANICAL DRAWINGS AND COORDINATE WITH THE MECHANICAL CONTRACTOR.

H. SPRINKLER PIPING SHALL BE SCHEDULE 10 STEEL FOR PIPING THAT IS 2-1/2" OR LARGER, PROVIDE SCHEDULE 40 STEEL PIPING FOR 2" AND SMALLER UNLESS OTHERWISE NOTED. THINWALL, LIGHTWALL, PRO-PRESS TYPE PIPING/FITTINGS WILL

I. PROVIDE PIPE LABELS FOR ALL SPRINKLER PIPING. LABELS SHALL READ "FIRE

J. PROVIDE SEMI-RECESSED SPRINKLERS IN ADDITION.

1. CONTRACTOR MAY RE-USE EXISTING SPRINKLER PIPING UNLESS THE EXISTING SPRINKLER PIPING IS FOUND TO BE ENCROACHING ON SPACE REQUIRED BY OTHER DISCIPLINES IN WHICH CASE THE EXISTING SYSTEM PIPING SHALL BE REMOVED TO MAKE ROOM FOR MECHANICAL (DUCTWORK), PLUMBING AND ELECTRICAL SYSTEMS

2. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING/UPGRADING ANY EXISTING PIPING IN THIS AREA AS REQUIRED TO INSTALL NEW SPRINKLERS IN THE ADDITION.

3. EXISTING SPRINKLER SYSTEMS OUTSIDE THE LIMITS OF THIS PROJECT SHALL REMAIN ACTIVE AT ALL TIMES. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY TEMPORARY CONNECTIONS. IF SHUT-DOWN IS REQUIRED REFER TO

4. ANY REQUIRED SPRINKLER SYSTEM SHUT-DOWN SHALL BE COORDINATED WITH THE OWNER. CONTRACTOR SHALL PROVIDE OWNER WITH AT LEAST ONE WEEK NOTICE PRIOR TO SHUTDOWN. AREAS IMPACTED BY THE SHUT-DOWN SHALL BE REQUIRED TO PERFORM FIRE-WATCHES UNTIL REVISED SYSTEM IS BROUGHT BACK ON-LINE. THE SPRINKLER SYSTEM SHALL BE ON-LINE AT THE END OF EACH DAY WHEN THE CONTRACTOR LEAVES THIS SITE

UNINSULATED PIPE SUPPORT DETAIL

Architect:

collaborative

4818 Baltimore Avenue Philadelphia, PA 19143

www.ozcollaborative.com

O'DONNELLS NACCARATO STRUCTURAL ENGINEERS

215.386.8191

Consultants: