ROWAN UNIVERSITY
RENOVATIONS TO ROWAN HALL PHASE III
03/15/2019
A5 EXISTING CODE NOTES

BOCA National Building Code / 1993:
BOCA CHAPTER 3 - USE OR OCCUPANCY

APPLICABLE USE GROUPS: "A-3 / "B"

"A-3" LECTURE HALLS
"B": BUSINESS

ANALYSIS BASED ON FOLLOWING CODES UNDER N.J.U.C.C.
INTERNATIONAL BUILDING CODE, NJ EDITION - 2015
NATIONAL STANDARD PLUMBING CODE - 2015
NATIONAL ELECTRICAL CODE - 2014
ASHRAE 90.1 - 2013
INTERNATIONAL MECHANICAL CODE - 2015
INTERNATIONAL FUEL GAS CODE - 2015
REHABILITATION SUB CODE - N.J.A.C. 5:23-6
BARRIER FREE SUB CODE - N.J.A.C. 5:23-7
ANSI A117.1 - 2009

THIS PROJECT INCLUDES ALTERATIONS TO AN EXISTING 3-STORY HIGHER EDUCATION BUILDING.
THE AREA OF WORK FOR THE PROJECT DOES NOT ENCOMPASSES THE ENTIRE BUILDING. THIS WORK DOES NOT
INCLUDE A CHANGE OF USE. THE ONLY ADDITION WILL INCLUDE INFILL OF AN EXISTING OPEN FLOOR AREA.
THE AREA WHERE THE WORK IS TAKING PLACE CAN BE OCCUPIED DURING CONSTRUCTION. THIS PROJECT
WILL BE CLASSIFIED AS A RENOVATION.

RENOVATION

RENOVATION WORK MUST COMPLY WITH N.J.A.C. 5:23-6.5.
ALTERATION WORK MUST ALSO COMPLY WITH MATERIALS AND METHODS THAT ARE SET FORTH IN N.J.A.C.
5:23-6.8.
NEWLY CREATED BUILDING ELEMENTS MUST COMPLY WITH N.J.A.C. 5:23-6.9.
NEWLY CREATED CONDITIONS AS A RESULT OF THE ALTERATION WORK MUST COMPLY WITH THE BASIC
1. Demolish existing metal framed/GWB partition wall, wall mounted accessories, electrical, etc. from floor to structure above. Refer also to electrical drawings.
2. Demolish existing door and frame and associated hardware in their entirety. Prepare for new borrowed glass HM frame. Return all hardware to Rowan University.
3. Remove existing electrical devices. Remove all floor outlets - infill slab & prepare for new floor finish. Refer to electrical drawings for additional information. Typical for all floor outlets within the work area.
4. Remove window/door in its entirety and prepare wall for new infill to match existing.
5. Remove entire existing flooring and base in rooms indicated. Patch and level concrete substrate to provide level, smooth, seamless subfloor as required to receive new finish floor. Refer also to floor prep requirements in specifications.
6. Demolish plumbing fixture, associated accessories and piping, refer to plumbing drawings.
7. Remove existing air diffusers and returns. Refer also to mechanical drawings. Prepare opening to be patched with material to match existing.
8. Remove existing light fixture and associated wiring in its entirety. Refer to electrical drawings.
9. Remove existing ACP ceiling, light fixtures, and any other ceiling items and support framing in their entirety - existing linear diffuser and GWB soffit to remain, patch as required - see detail J12/D-101.
10. Remove equipment/accessory in its entirety. Salvage for use by the university. Patch wall as required.
11. Remove and replace existing ACP tile as required to replace VAV - patch any damage as required.
12. Demolish area of existing slab as required to make plumbing connections for new sink location - see plumbing drawings.
13. Remove fire extinguisher, cabinet salvage for reuse in new location.
14. Remove demountable partitions.
15. Demolish existing upper and base cabinets and sink included associated plumbing. Refer to plumbing drawings.
16. Remove existing fume hood in its entirety - cap all existing utilities - see plumbing drawings.
17. Remove existing resin countertop and integral window sill - prepare area for new window sill and countertops as required see N9/D-101.
18. Remove cover from existing utility trench - prepare for new replacement materials.
19. Remove whiteboard/tackboard in its entirety. Salvage for use by the university. Patch/repair all walls as required.
20. Demolish existing door and prepare ex frame for new door and hardware. Return all hardware to Rowan University.
21. Existing linear diffuser and GWB soffit at edge of bulkhead to remain - patch damaged GWB as required.
23. Remove owner's existing equipment and store as directed by the university. Reinstall in room when all flooring work is complete.
24. Demolish concrete slab on grade in this area to connect plumbing for future drain locations.
25. Remove ex snorkel and associated ductwork - see mechanical drawings.
26. Remove existing electrical devices and associated wiring - see electrical drawings.
WALL FINISHES

SEE A-900 FOR TRANSITION DETAILS

BASE FINISH

FLOOR THRESHOLD TRANSITION

Location: TERRAZZO TO EPOXY
Size: 3/8"
Style name: EDGE GUARD
Location: ME LAB
Style: CRS-XX-B
Size: 12X24 - RUNNING BOND
Manuf: JOHNSONITE
Color: T3603 Twilight

DRAWINGS COPYRIGHT © CLARKE CATON HINTZ, PC

TR3 = TRANSITION
STRIATIONS BBT
STYLE:

Location: TERRAZZO TO CARPET
VCT = VINYL COMPOSITION TILE
Color: 20 CHARCOAL
Size: 1/4"
Location: CEE/CHE LABS
Style name: EDGE GUARD
Finish: SEMI-GLOSS
Style: EG-XXX-J
Seams: Cold Weld
Color number: 1595
Manuf: JOHNSONITE
Size: 40" X 40" X 3 MM THICK
Color name: ROCKY COAST
Color name: 4880 Drusy
P6 = PAINT
RUBBER TILE
Manuf: NORA SYSTEMS INC
RF1 = RESILIENT FLOOR
SOFFITS
Color: 20 CHARCOAL
Size: 3/16"
Finish: FLAT
Style name: EDGE GUARD
Adhesive: MANNINGTON INFINITY PRESSURE
Color name: CEILING WHITE
Style: EG-XXX-H
Manuf: BENJAMIN MOORE
Manuf: JOHNSONITE
Installation Method: HORIZONTAL BRICK

P5 = PAINT
LABS
Location: ALL LABS AT EXTERIOR WALLS
Color name: DEEP NOCTURNE
Manuf: MANNINGTON CARPET
CPT1 = CARPET TILE
Color name: DOVER WHITE
Manuf: SHERWIN WILLIAMS
CP1 = CEILING PAINT
MANUFACTURERS SPECIFIED
P4 = PAINT
LABS
Location: ALL EXPOSED STRUCTURE IN ALL LABS
Color name: BLOOMING GROVE
Manuf: SHERWIN WILLIAMS
P3 = PAINT
LABS
Location: ACCENT WALLS AT CEE CONSTRUCTION
Color number: 126
Manuf: BENJAMIN MOORE
Color name: PUMPKIN SPICE
Manuf: ARMSTRONG
ACT-1 = ACOUSTICAL CEILING TILE
P2 = PAINT
LABS
Location: ACCENT WALL PAINT AT CHE
Color number: 1322
Manuf: BENJAMIN MOORE
Color name: LADYBUG RED
Manuf: ARMSTRONG
STYLE NUMBER: 3262
ACT-1 = ACOUSTICAL CEILING TILE

GENERAL FINISH NOTES

1. WALL, CEILING, AND FLOOR PARTITIONS ARE PROVIDED IN EVERY ROOM UNLESS DRAWINGS INDICATE OTHERWISE.
2. ALL STEEL COLUMNS TO BE PAINTED P6, U.O.N.
3. UTILIZE EGGSHELL FINISH PAINT ON WALLS AND FLAT FINISH ON CEILINGS/UNDERSIDE OF SOFFITS, CEILINGS.
4. ALL WINDOW SILLS TO BE SS1, U.O.N.
5. ALL PTD. TRIM/FRAMES TO BE PAINTED P6, U.O.N.
6. ALL STEEL COLUMNS TO BE PAINTED P6, U.O.N.
7. REFER TO REFLECTED CEILING PLANS FOR LOCATION OF ACOUSTIC CEILING TILE AND PAINTED FIRE EXT. CABINETS PROVIDE NEW MFR STANDARD "FIRE EXTINGUISHER" LABELING.
8. ALL RUBBER BASE TO BE 4" HIGH UNLESS OTHERWISE NOTED.
9. FLOOR TRANSITIONS TO OCCUR AT THE CENTERLINE OF THE CLOSED DOOR OR AS OTHERWISE INDICATED.
10. ALL ELECTRICAL DEVICES TO BE GRAY WITH STAINLESS COVERS.
11. PROVIDE RUBBER COVE BASE TO MATCH EXISTING ON CORRIDOR SIDE OF ALL NEW PARTITION TYPE P1.
12. ALL STEEL COLUMNS TO BE PAINTED P6, U.O.N.
13. ALL WINDOW SILLS TO BE SS1, U.O.N.
14. ALL PTD. TRIM/FRAMES TO BE PAINTED P6, U.O.N.
15. ALL NEW ELECTRICAL DEVICES TO BE GRAY WITH STAINLESS COVERS.
16. BASE IS ONLY REQUIRED AT BASE OF GWB. BASE NOT REQUIRED AT CMU WALLS, TYP.
17. PROVIDE RUBBER COVE BASE TO MATCH EXISTING ON CORRIDOR SIDE OF ALL NEW PARTITION TYPE P1.
18. REFER TO REFLECTED CEILING PLANS FOR LOCATION OF ACOUSTIC CEILING TILE AND PAINTED FIRE EXT. CABINETS PROVIDE NEW MFR STANDARD "FIRE EXTINGUISHER" LABELING.
19. ALL STEEL COLUMNS TO BE PAINTED P6, U.O.N.
20. ALL WINDOW SILLS TO BE SS1, U.O.N.
21. PROVIDE RUBBER COVE BASE TO MATCH EXISTING ON CORRIDOR SIDE OF ALL NEW PARTITION TYPE P1.
22. REFER TO REFLECTED CEILING PLANS FOR LOCATION OF ACOUSTIC CEILING TILE AND PAINTED FIRE EXT. CABINETS PROVIDE NEW MFR STANDARD "FIRE EXTINGUISHER" LABELING.
23. ALL STEEL COLUMNS TO BE PAINTED P6, U.O.N.
24. ALL WINDOW SILLS TO BE SS1, U.O.N.
25. PROVIDE RUBBER COVE BASE TO MATCH EXISTING ON CORRIDOR SIDE OF ALL NEW PARTITION TYPE P1.
26. REFER TO REFLECTED CEILING PLANS FOR LOCATION OF ACOUSTIC CEILING TILE AND PAINTED FIRE EXT. CABINETS PROVIDE NEW MFR STANDARD "FIRE EXTINGUISHER" LABELING.
27. ALL STEEL COLUMNS TO BE PAINTED P6, U.O.N.
28. ALL WINDOW SILLS TO BE SS1, U.O.N.
29. PROVIDE RUBBER COVE BASE TO MATCH EXISTING ON CORRIDOR SIDE OF ALL NEW PARTITION TYPE P1.
30. REFER TO REFLECTED CEILING PLANS FOR LOCATION OF ACOUSTIC CEILING TILE AND PAINTED FIRE EXT. CABINETS PROVIDE NEW MFR STANDARD "FIRE EXTINGUISHER" LABELING.
31. ALL STEEL COLUMNS TO BE PAINTED P6, U.O.N.
32. ALL WINDOW SILLS TO BE SS1, U.O.N.
33. PROVIDE RUBBER COVE BASE TO MATCH EXISTING ON CORRIDOR SIDE OF ALL NEW PARTITION TYPE P1.
34. REFER TO REFLECTED CEILING PLANS FOR LOCATION OF ACOUSTIC CEILING TILE AND PAINTED FIRE EXT. CABINETS PROVIDE NEW MFR STANDARD "FIRE EXTINGUISHER" LABELING.
GENERAL FINISH NOTES:

1. WALL, CEILING, AND FLOOR FINISHES TO BE PROVIDED IN SHOWN COLORS, SIZES, AND STYLES. BE ADVISED THAT MANUFACTURER WANTS TO CHANGE THIS SHEET. SEE A-900 FOR TRANSITION DETAILS.

FLOOR THRESHOLD TRANSITION:

- Location: TERRAZZO TO EPOXY
- Color: 20 CHARCOAL
- Size: 3/8"
- Style name: EDGE GUARD
- Style: CRS -XX-B
- Manuf: JOHNSONITE

- Location: TERRAZZO TO CARPET
- Color: 20 CHARCOAL
- Size: 1/4"
- Style name: EDGE GUARD
- Seams: Cold Weld
- Manuf: JOHNSONITE

- Location: CEE/CHE LABS
- Finish: SEMI-GLOSS
- Style: EG-XXX-J
- Seams: Cold Weld
- Manuf: JOHNSONITE

- Location: ALL HM DOORS IN ALL LABS
- Finish: EGGSHELL
- Style: EG-XXX-H
- Seams: Cold Weld
- Manuf: JOHNSONITE

WALL FINISH:

- Location: TERRAZZO TO VCT AND RUBBER TILE
- Color: 20 CHARCOAL
- Size: 3/16"
- Finish: FLAT
- Adhesive: MANNINGTON INFINITY PRESSURE ASHLER
- Manuf: JOHNSONITE

- Location: EDGE OF BULKHEAD AND SENSITIVE ADHESIVE
- Finish: FLAT
- Style name: EDGE GUARD
- Adhesive: MANNINGTON INFINITY PRESSURE ASHLER
- Manuf: JOHNSONITE

- Location: ALL LABS AT EXTERIOR WALLS
- Finish: EGGSHELL
- Style: CURRENT
- Manuf: MANNINGTON CARPET

- Location: ALL EXPOSED STRUCTURE IN ALL LABS
- Finish: EGGSHELL
- Style: CURRENT
- Manuf: MANNINGTON CARPET

- Location: ALL EXPOSED STEEL CONDUIT, DUCTWORK, PIPING ETC. IN ALL FINISHED SPACES
- Finish: EGGSHELL
- Style: CURRENT
- Manuf: MANNINGTON CARPET

- Location: ACCENT WALLS AT CEE CONSTRUCTION
- Finish: EGGSHELL
- Style: CURRENT
- Manuf: MANNINGTON CARPET

- Location: ALL RUBBER BASE TO BE 4" HIGH UNLESS OTHERWISE NOTED.
- Color: 20 CHARCOAL
- Style: BASEWORKS THERMOSET RUBBER BASE
- Manuf: JOHNSONITE

- Location: WINDOW SILLS IN ALL LABS
- Finish: FLAT
- Style: Norament Grano
- Manuf: BENJAMIN MOORE

- Location: ACCENT WALL PAINT AT MEASUREMENTS
- Finish: EGGSHELL
- Style: CURRENT
- Manuf: MANNINGTON CARPET

- Location: ACCENT WALL PAINT AT CHE CONSTRUCTION
- Finish: EGGSHELL
- Style: CURRENT
- Manuf: MANNINGTON CARPET

- Location: ALL LABS AT EXTERIOR WALLS
- Finish: EGGSHELL
- Style: CURRENT
- Manuf: MANNINGTON CARPET

- Location: ALL EXPOSED STEEL CONDUIT, DUCTWORK, PIPING ETC. IN ALL FINISHED SPACES
- Finish: EGGSHELL
- Style: CURRENT
- Manuf: MANNINGTON CARPET

- Location: ALL RUBBER BASE TO BE 4" HIGH UNLESS OTHERWISE NOTED.
- Color: 20 CHARCOAL
- Style: BASEWORKS THERMOSET RUBBER BASE
- Manuf: JOHNSONITE

- Location: WINDOW SILLS IN ALL LABS
- Finish: FLAT
- Style: Norament Grano
- Manuf: BENJAMIN MOORE

- Location: ACCENT WALL PAINT AT MEASUREMENTS
- Finish: EGGSHELL
- Style: CURRENT
- Manuf: MANNINGTON CARPET

- Location: ACCENT WALL PAINT AT CHE CONSTRUCTION
- Finish: EGGSHELL
- Style: CURRENT
- Manuf: MANNINGTON CARPET

- Location: ALL LABS AT EXTERIOR WALLS
- Finish: EGGSHELL
- Style: CURRENT
- Manuf: MANNINGTON CARPET

- Location: ALL RUBBER BASE TO BE 4" HIGH UNLESS OTHERWISE NOTED.
- Color: 20 CHARCOAL
- Style: BASEWORKS THERMOSET RUBBER BASE
- Manuf: JOHNSONITE

- Location: WINDOW SILLS IN ALL LABS
- Finish: FLAT
- Style: Norament Grano
- Manuf: BENJAMIN MOORE

- Location: ACCENT WALL PAINT AT MEASUREMENTS
- Finish: EGGSHELL
- Style: CURRENT
- Manuf: MANNINGTON CARPET

- Location: ACCENT WALL PAINT AT CHE CONSTRUCTION
- Finish: EGGSHELL
- Style: CURRENT
- Manuf: MANNINGTON CARPET

- Location: ALL LABS AT EXTERIOR WALLS
- Finish: EGGSHELL
- Style: CURRENT
- Manuf: MANNINGTON CARPET

- Location: ALL RUBBER BASE TO BE 4" HIGH UNLESS OTHERWISE NOTED.
- Color: 20 CHARCOAL
- Style: BASEWORKS THERMOSET RUBBER BASE
- Manuf: JOHNSONITE

- Location: WINDOW SILLS IN ALL LABS
- Finish: FLAT
- Style: Norament Grano
- Manuf: BENJAMIN MOORE

- Location: ACCENT WALL PAINT AT MEASUREMENTS
- Finish: EGGSHELL
- Style: CURRENT
- Manuf: MANNINGTON CARPET

- Location: ACCENT WALL PAINT AT CHE CONSTRUCTION
- Finish: EGGSHELL
- Style: CURRENT
- Manuf: MANNINGTON CARPET

- Location: ALL LABS AT EXTERIOR WALLS
- Finish: EGGSHELL
- Style: CURRENT
- Manuf: MANNINGTON CARPET

- Location: ALL RUBBER BASE TO BE 4" HIGH UNLESS OTHERWISE NOTED.
- Color: 20 CHARCOAL
- Style: BASEWORKS THERMOSET RUBBER BASE
- Manuf: JOHNSONITE

- Location: WINDOW SILLS IN ALL LABS
- Finish: FLAT
- Style: Norament Grano
- Manuf: BENJAMIN MOORE

- Location: ACCENT WALL PAINT AT MEASUREMENTS
- Finish: EGGSHELL
- Style: CURRENT
- Manuf: MANNINGTON CARPET

- Location: ALL NEW ELECTRICAL DEVICES TO BE GRAY WITH STAINLESS COVERS.

- Location: EXISTING ROLLER SHADES TO REMAIN.

- Location: ALL STEEL COLUMNS TO BE PAINTED P6, U.O.N.

- Location: ALL WINDOW SILLS TO BE SS1, U.O.N.

- Location: FIRE EXT. CABINETS PROVIDE NEW MFR STANDARD "FIRE EXTINGUISHER" LABELING.

- Location: ALL NEW Partition type P1.

- Location: PROVIDE RUBBER COVE BASE TO MATCH EXISTING ON CORRIDOR SIDE OF ALL NEW Partition type P1.

- Location: EXISTING DIAMOND PLATE TO REMAIN UNPAINTED - PROTECT BLOCK TO REMAIN DURING 15.

- Location: PROVIDE RUBBER COVE BASE TO MATCH EXISTING ON CORRIDOR SIDE OF ALL NEW Partition type P1.

- Location: EXISTING DIAMOND PLATE TO REMAIN UNPAINTED - PROTECT BLOCK TO REMAIN DURING 15.

- Location: PROVIDE RUBBER COVE BASE TO MATCH EXISTING ON CORRIDOR SIDE OF ALL NEW Partition type P1.

- Location: EXISTING DIAMOND PLATE TO REMAIN UNPAINTED - PROTECT BLOCK TO REMAIN DURING 15.

- Location: PROVIDE RUBBER COVE BASE TO MATCH EXISTING ON CORRIDOR SIDE OF ALL NEW Partition type P1.

- Location: EXISTING DIAMOND PLATE TO REMAIN UNPAINTED - PROTECT BLOCK TO REMAIN DURING 15.

- Location: PROVIDE RUBBER COVE BASE TO MATCH EXISTING ON CORRIDOR SIDE OF ALL NEW Partition type P1.

- Location: EXISTING DIAMOND PLATE TO REMAIN UNPAINTED - PROTECT BLOCK TO REMAIN DURING 15.

- Location: PROVIDE RUBBER COVE BASE TO MATCH EXISTING ON CORRIDOR SIDE OF ALL NEW Partition type P1.

- Location: EXISTING DIAMOND PLATE TO REMAIN UNPAINTED - PROTECT BLOCK TO REMAIN DURING 15.

- Location: PROVIDE RUBBER COVE BASE TO MATCH EXISTING ON CORRIDOR SIDE OF ALL NEW Partition type P1.

- Location: EXISTING DIAMOND PLATE TO REMAIN UNPAINTED - PROTECT BLOCK TO REMAIN DURING 15.

- Location: PROVIDE RUBBER COVE BASE TO MATCH EXISTING ON CORRIDOR SIDE OF ALL NEW Partition type P1.
CE GRAD LAB 222 PARTIAL SECOND FLOOR PLAN

ROWAN UNIVERSITY
GLASSBORO, NJ

RENOVATIONS TO
ROWAN HALL
PHASE III

Drawings Copyright © Clarke Caton Hintz, PC 2016

CE GRAD LAB 222 ELEVATION

CE GRAD LAB 222 ELEVATION

CE GRAD LAB 222 ELEVATION

CE GRAD LAB 222 ELEVATION

CE GRAD LAB 222 ELEVATION

CE GRAD LAB 222 ELEVATION
### PLUMBING FIXTURE SCHEDULE

<table>
<thead>
<tr>
<th>Model</th>
<th>Manufacturer</th>
<th>Type</th>
<th>Trap</th>
<th>Plumbing Fixture Schedule</th>
<th>ES-1</th>
<th>TRAP</th>
<th>1/2&quot;</th>
<th>3 GPM</th>
<th>Tap Size</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### LABORATORY EQUIPMENT CONNECTION SCHEDULE

<table>
<thead>
<tr>
<th>Model</th>
<th>Equipment Name</th>
<th>Location</th>
<th>ID#</th>
<th>CW HW</th>
<th>San</th>
<th>V IW</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### MIXING VALVE SCHEDULE

<table>
<thead>
<tr>
<th>Model</th>
<th>Manufacturer</th>
<th>Symbol</th>
<th>Model</th>
<th>Flow @ 15 PSI PD</th>
<th>Temp</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### LABORATORY WASTE NEUTRALIZATION SYSTEM

<table>
<thead>
<tr>
<th>Model</th>
<th>Manufacturer</th>
<th>Symbol</th>
<th>Material</th>
<th>Gallons</th>
<th>Model</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### PLUMBING EQUIPMENT CONNECTION SCHEDULE

<table>
<thead>
<tr>
<th>Model</th>
<th>Equipment Name</th>
<th>Location</th>
<th>ID#</th>
<th>CW HW</th>
<th>San</th>
<th>V IW</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Jeffery M. Polo**
P.E. # GE43804
EXISTING PIPING TO BE REMOVED BACK TO CHASE

GENERAL NOTES:
1. PLUMBING DEMOLITION WORK IS NOT STRICTLY LIMITED TO SCOPE OF WORK AREA. IT MAY BE NECESSARY TO PERFORM DEMOLITION WORK OUTSIDE INDICATED SCOPE OF WORK AREA TO REMOVE WIRES, CONDUITS, AND OTHER EQUIPMENT OR DEVICES THAT SERVE EQUIPMENT WITHIN SCOPE OF WORK AREA OR OTHERWISE SCHEDULED TO BE REMOVED.

KEY NOTES:
- CUT BACK AND CAP WASTE PIPING TO EXISTING RISER IN CHASE.
- VALVE AND CAP ALL SERVICE BACK TO ACTIVE MAINS IN CHASE.
- DISCONNECT AND REMOVE EXISTING PIPING ASSOCIATED WITH SINKS, FIXTURES AND LAB WASTE TANK.
- WORK TOP BENCHES. VALVE AND CAP ALL SERVICE BACK TO ACTIVE MAINS IN CHASE.

JEFFERY M. POLO
P.E. # GE43804
GENERAL NOTES:
1. PLUMBING DEMOLITION WORK IS NOT STRICTLY LIMITED TO SCOPE OF WORK AREA. IT MAY BE NECESSARY TO PERFORM DEMOLITION WORK OUTSIDE INDICATED SCOPE OF WORK AREA TO REMOVE PLUMBING SERVICES AND FIXTURES THAT SERVE EQUIPMENT WITHIN SCOPE OF WORK AREA OR OTHERWISE SCHEDULED TO BE REMOVED.

KEY NOTES:
- CUT BACK AND CAP WASTE PIPING TO EXISTING RISER IN TRENCHES
- VALVE AND CAP ALL SERVICE BACK TO ACTIVE MAINS IN TRENCHES
- DISCONNECT AND REMOVE EXISTING SINKS, FIXTURES, FUME HOOD, LAB WASTE TANK AND
- CUT BACK AND CAP WASTE PIPING TO EXISTING RISER IN TRENCHES
- VALVE AND CAP ALL SERVICE BACK TO ACTIVE MAINS IN CEILINGS
- DISCONNECT AND REMOVE EMERGENCY SHOWER AND ASSOCIATED PIPING EXISTING PIPING AND ALARMS ASSOCIATED WITH EMERGENCY SHOWER

JEFFERY M. POLO
P.E. # GE43804
SCOPE OF WORK

CUT BACK AND CAP WASTE PIPING TO EXISTING RISER IN TRENCHES

VALVE AND CAP ALL SERVICE BACK TO ACTIVE MAINS IN TRENCHES

DISCONNECT AND REMOVE EXISTING

SINKS, FIXTURES, FUME HOOD, LAB WASTE TANK AND

CUT BACK AND CAP WASTE PIPING TO EXISTING RISER IN TRENCHES

VALVE AND CAP ALL SERVICE BACK TO ACTIVE MAINS IN TRENCHES

DISCONNECT AND REMOVE EXISTING PIPING ASSOCIATED WITH

PIPING FROM TRENCH

SCHOOL OF WORK

RM 322 DEMOLITION PLAN

SCALE: 3/8"=1'-0"
PLUMBING HIDDEN NOTES

1. CONNECT 1/2" CA TO ME-04 TO LS-1
2. 1/2" CW AND 1/2" HW TO OUTLETS IN FLOOR AND RUN UTILITY CHASE
3. VAC AND AIR IN CONNECT TO EXISTING CW
4. 1/2" QUICK DISCONNECT TO OUTLETS
5. SERVICE CARRIER TO OVERHEAD 3/4" VAC DROP 1/2" CA DROP TO OUTLETS 1/2" VAC AND 1/2" CA (TYPICAL) FOR CA AND VAC 1/2" QUICK DISCONNECT
6. 1/2" CA TO ME-04 TO LS-1
7. 1/2" CW AND 1/2" HW TO OUTLETS IN FLOOR AND RUN UTILITY CHASE
8. VAC AND AIR IN CONNECT TO EXISTING CW
9. 1/2" QUICK DISCONNECT TO OUTLETS
10. SERVICE CARRIER TO OVERHEAD 3/4" VAC DROP 1/2" CA DROP TO OUTLETS 1/2" VAC AND 1/2" CA (TYPICAL) FOR CA AND VAC 1/2" QUICK DISCONNECT

JEFFERY M. POLO
P.E. # GE43804
SCOPE OF WORK

CWCW

1/2" CW DROP TO COFFEE MAKER

CTE 1" CW W/ NEW 3/4" CW

EXISTING 1" CW

1" HW

1/2" HWR

CABINET TO COFFEE MAKER BEHIND EQ-1

JEFFERY M. POLO
P.E. # GE43804
DELEGATED DESIGN SUBMISSION


FIRE ALARM GENERAL NOTES

1. ARCHITECTURAL, STRUCTURAL & ENGINEERING DRAWINGS & SPECIFICATIONS A. WARRANTEE WORK OF THIS SECTION IN WRITING FOR ONE YEAR FROM THE DATE FOR OBTAINING FIRE ALARM DEVICES TO MATCH EXISTING MANUFACTURER ESSENTIALS AND REPLACEMENTS UNDER GUARANTEE WITH CONTRACT PRICE.

2. FIRE ALARM GENERAL NOTES

A. NEW JERSEY UNIFORM CONSTRUCTION CODE (NJUCC) AS DEFINED BY CHAPTER 9. ALL COMPONENTS SHOWN ARE NEW UNLESS SPECIFICALLY NOTED AS EXISTING.

B. ALL COMPONENTS SHOWN ARE NEW UNLESS SPECIFICALLY NOTED AS EXISTING.

C. FIRE ALARM TERMINAL CABINET

D. ELECTRICAL CODE: 2014 NATIONAL ELECTRIC CODE

E. ELECTRICAL CONTRACTOR

F. ELECTRONIC ENGINEERS

G. ELECTRICAL CONTRACTOR

H. ELECTRONIC ENGINEERS

I. ELECTRICAL CONTRACTOR

J. ELECTRONIC ENGINEERS

K. ELECTRICAL CONTRACTOR

L. ELECTRONIC ENGINEERS

M. ELECTRICAL CONTRACTOR

N. ELECTRONIC ENGINEERS

O. ELECTRONIC ENGINEERS

P. ELECTRONIC ENGINEERS

Q. ELECTRONIC ENGINEERS

R. ELECTRONIC ENGINEERS

S. ELECTRONIC ENGINEERS

T. ELECTRONIC ENGINEERS

U. ELECTRONIC ENGINEERS

V. ELECTRONIC ENGINEERS

W. ELECTRONIC ENGINEERS

X. ELECTRONIC ENGINEERS

Y. ELECTRONIC ENGINEERS

Z. ELECTRONIC ENGINEERS

DELEGATED DESIGN SUBMISSION

GENERAL FIRE ALARM NOTES

1. All new fire alarm wiring, boxes shall be connected to the master fire alarm control panel. All new fire alarm wiring, boxes shall be connected to the master fire alarm control panel.

2. All new fire alarm wiring, boxes shall be connected to the master fire alarm control panel. All new fire alarm wiring, boxes shall be connected to the master fire alarm control panel.

3. All new fire alarm wiring, boxes shall be connected to the master fire alarm control panel. All new fire alarm wiring, boxes shall be connected to the master fire alarm control panel.

4. All new fire alarm wiring, boxes shall be connected to the master fire alarm control panel. All new fire alarm wiring, boxes shall be connected to the master fire alarm control panel.

5. All new fire alarm wiring, boxes shall be connected to the master fire alarm control panel. All new fire alarm wiring, boxes shall be connected to the master fire alarm control panel.

6. All new fire alarm wiring, boxes shall be connected to the master fire alarm control panel. All new fire alarm wiring, boxes shall be connected to the master fire alarm control panel.

7. All new fire alarm wiring, boxes shall be connected to the master fire alarm control panel. All new fire alarm wiring, boxes shall be connected to the master fire alarm control panel.

8. All new fire alarm wiring, boxes shall be connected to the master fire alarm control panel. All new fire alarm wiring, boxes shall be connected to the master fire alarm control panel.
SCOPE OF WORK

1. ALL NEW FIRE ALARM INITIATING DEVICES SHALL BE CONNECTED TO THE NEAREST INITIATING DEVICE CIRCUIT ASSOCIATED WITH THE EXISTING BASE BUILDING FIRE ALARM SYSTEM.

2. ALL NEW FIRE ALARM NOTIFICATION DEVICES SHALL BE CONNECTED TO THE NEAREST NOTIFICATION DEVICE CIRCUIT ASSOCIATED WITH THE EXISTING BASE BUILDING FIRE ALARM SYSTEM.

3. MODIFY EXISTING MAIN FIRE ALARM CONTROL PANEL TO ACCOMMODATE NEW DEVICES. PROVIDE NEW ZONES (IDENTIFY AS REQUIRED), NEW CONTACTS, ADDITIONAL POWER SUPPLIES AND ALL OTHER APPURTENANCES FOR A COMPLETE AND OPERATIONAL SYSTEM.

4. MODIFY EXISTING BUILDING FIRE ALARM ANNUNCIATOR PANEL TO REFLECT ADDITIONS AND MODIFICATIONS TO THE BUILDING FIRE ALARM SYSTEM.

5. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND EXTENT OF AREAS OF SCOPE AND ALTERNATE BID AREAS. COORDINATE PHASING REQUIREMENTS WITH PHASING INDICATED ON ARCHITECTURAL DRAWINGS AND WITH PHASING REQUIREMENTS OF OTHER TRADES.

GENERAL FIRE ALARM NOTES

JEFFERY M. POLO
P.E. # GE43804

RM 222 FIRE ALARM PLAN
SCALE: 3/8"=1'-0"
1. ALL NEW FIRE ALARM INITIATING DEVICES SHALL BE CONNECTED TO THE NEAREST INITIATING DEVICE CIRCUIT ASSOCIATED WITH THE EXISTING BASE BUILDING FIRE ALARM SYSTEM.

2. ALL NEW FIRE ALARM NOTIFICATION DEVICES SHALL BE CONNECTED TO THE NEAREST NOTIFICATION DEVICE CIRCUIT ASSOCIATED WITH THE EXISTING BASE BUILDING FIRE ALARM SYSTEM.

3. MODIFY EXISTING MAIN FIRE ALARM CONTROL PANEL TO ACCOMMODATE NEW DEVICES. PROVIDE NEW ZONES (IDENTIFY AS REQUIRED), NEW CONTACTS, ADDITIONAL POWER SUPPLIES AND ALL OTHER APPURTENANCES FOR A COMPLETE AND OPERATIONAL SYSTEM.

4. MODIFY EXISTING BUILDING FIRE ALARM ANNUNCIATOR PANEL TO REFLECT ADDITIONS AND MODIFICATIONS TO THE BUILDING FIRE ALARM SYSTEM.

5. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND EXTENT OF AREAS OF SCOPE AND ALTERNATE BID AREAS. COORDINATE PHASING REQUIREMENTS WITH PHASING INDICATED ON ARCHITECTURAL DRAWINGS AND WITH PHASING REQUIREMENTS OF OTHER TRADES.
5. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND EXTENT OF AREAS OF SCOPE AND
ALTERNATE BID AREAS. COORDINATE PHASING REQUIREMENTS WITH PHASING INDICATED ON
ARCHITECTURAL DRAWINGS AND WITH PHASING REQUIREMENTS OF OTHER TRADES.

GENERAL FIRE ALARM NOTES

1. ALL NEW FIRE ALARM NOTIFICATION DEVICES SHALL BE CONNECTED TO THE PROPER FIRE
ALARM PANEL WITH CORRECT TERMINAL CONNECTION AND CORRECT IDENTIFICATION ON THE
BACK OF EACH DEVICE.
2. ALL NEW FIRE ALARM NOTIFICATION DEVICES SHALL BE CATEGORIZED IN THE PROPERTY
INVENTORY REVIEW PROCESS AS PER THE CHARTER AND FIRE ALARM PANEL.
3. INSTALLATION OF NEW FIRE ALARM NOTIFICATION DEVICES TO ACCOMPANY NEW STAIR
SUPPLIES AND ALL SYSTEM COMPONENTS FOR A COMPLETE AND OPERATIONAL SYSTEM
SUCH AS STAIRWELL C/W PANELS, ETC. TO MEET ALL NATIONAL AND LOCAL CODE
REQUIREMENTS.
4. ANY FIRE ALARM SYSTEMS ABOVE THE SYSTEM SPECIFIED SHALL BE IN ACCORDANCE WITH
NATIONAL AND LOCAL CODE REQUIREMENTS.

JEFFERY M. POLO
P.E. # GE43804

RM 322 FIRE ALARM PLAN
SCALE: 3/8"=1'-0"
FIRE PROTECTION GENERAL NOTES

1. SCOPE
   A. PROJECT SCOPE INCLUDES THE MODIFICATION OF THE EXISTING FIRE SUPPRESSION SYSTEM ON THE FIRST FLOOR, SECOND AND THIRD FLOORS OF THE EXISTING ROWAN COLLEGE OF ENGINEERING MIXED OCCUPANCY BUILDING WHICH WILL CONSIST OF LAB SPACES.
   B. THE WORK UNDER THIS SECTION INCLUDES ALL LABOR, MATERIALS, FEES AND ACTIVITIES NECESSARY TO INSTALL, TEST & COMMISSION A FULLY FUNCTIONAL AND CODE COMPLIANT SUPPRESSION SYSTEM.
   C. SUBMITTALS SHALL BE PREPARED AND FORWARDED TO THE ARCHITECT/ENGINEER FOR REVIEW. SUCCESSFULLY COMPLETING THE SUBMITTAL AND REVIEW PROCESS OF FIRE ALARM SYSTEM PRODUCT DATA, SHOP DRAWINGS, CALCULATIONS, AS-BUILT DRAWINGS AND TEST CERTIFICATES SHALL BE A PREREQUISITE TO ISSUING FINAL ENGINEER APPROVAL CERTIFICATION FOR OCCUPANCY.
   D. THE WORK SHALL BE DESCRIBED DIRECTLY BY THESE DRAWINGS AND RELATED DOCUMENTS UNDER THIS SECTION AND AS AFFECTED BY RELATED DOCUMENTS NOT EXCLUSIVE TO THE WORK OF THIS SECTION.

2. PURPOSE OF ENGINEERING DRAWINGS
   A. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED FOR PURPOSES OF OBTAINING A BUILDING PERMIT AND AS THE BASIS OF DESIGN FOR PREPARATION OF DETAILED SHOP DRAWINGS. THE DRAWINGS ARE NOT INTENDED TO SHOW EXACT LOCATIONS, BUT TO DEMONSTRATE THE CONFIGURATION OF MAJOR SYSTEM COMPONENTS AND APPROXIMATE APPLIANCE AND DEVICE LOCATIONS. FIELD VERIFY LOCATIONS OF ALL DEVICES, APPLIANCES AND SYSTEM COMPONENTS.
   B. ALL COMPONENTS SHOWN ARE NEW UNLESS SPECIFICALLY NOTED AS EXISTING.

3. RELATED DOCUMENTS
   A. ARCHITECTURAL, STRUCTURAL & ENGINEERING DRAWINGS & SPECIFICATIONS
   B. OWNER AND/OR TENANT CONSTRUCTION STANDARDS OF PRACTICE
   C. FIRE PROTECTION SPECIFICATIONS

4. CODES & STANDARDS
   A. NEW JERSEY UNIFORM CONSTRUCTION CODE (NJUCC) AS DEFINED BY CHAPTER 23 OF THE NEW JERSEY ADMINISTRATIVE CODE.
   B. BUILDING CODE: 2015 INTERNATIONAL BUILDING CODE, NEW JERSEY EDITION.
   C. FIRE CODE: 2015 INTERNATIONAL FIRE CODE, NEW JERSEY EDITION.
   D. ELECTRICAL CODE: 2014 NATIONAL ELECTRIC CODE
   E. ELEVATOR CODE: 2007 ASME/A17.1 SAFETY CODE FOR ELEVATORS AND ESCALATORS
   F. MECHANICAL CODE: 2015 INTERNATIONAL MECHANICAL CODE, NEW JERSEY EDITION.
   G. ACCESSIBILITY CODE: 2003 ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES (A117.1)

5. QUALITY ASSURANCE
   A. PRODUCTS: DOMESTICALLY MANUFACTURED, UL LISTED & FM APPROVED FOR USE WITH FIRE PROTECTION SYSTEMS.
   B. INSTALLERS: LICENSED IN GOOD STANDING AS FIRE PROTECTION INSTALLERS IN THE STATE OF NEW JERSEY.

7. WARRANTEE
   A. WARRANTEE WORK OF THIS SECTION IN WRITING FOR ONE YEAR FROM THE DATE OF OWNER'S ACCEPTANCE OF CERTIFICATE OF SUBSTANTIAL COMPLETION. REPAIR OR REPLACE DEFECTIVE MATERIALS, EQUIPMENT, WORKMANSHIP AND INSTALLATION THAT DEVELOP WITHIN THE PERIOD, PROMPTLY AND TO OWNER'S SATISFACTION AND CORRECT DAMAGE CAUSED IN MAKING NECESSARY REPAIRS AND REPLACEMENTS UNDER GUARANTEE WITH CONTRACT PRICE.

DELEGATED DESIGN SUBMISSION

SCALE: NONE
GENERAL FIRE PROTECTION NOTES

1. The fire protection design shall be based on the following design criteria:
   - All areas shall be designed based on the area of the area
   - All areas shall be designed based on the area of the area

2. The design shall comply with the following criteria:
   - All areas shall be designed based on the area of the area

3. All areas shall be designed based on the area of the area

4. All areas shall be designed based on the area of the area

SPRINKLER SYSTEM DESIGN CRITERIA

<table>
<thead>
<tr>
<th>AREA</th>
<th>DESCRIPTION</th>
<th>FM GLOBAL</th>
<th>HAZARD</th>
<th>DESIGN</th>
<th>DENSITY</th>
<th>AREA (SQ FT)</th>
<th>HOSE ALLOWANCE (GPM)</th>
<th>MAX AREA (SQ FT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFFICE, CLASSROOM</td>
<td>1500</td>
<td>100HC-1</td>
<td>0.10</td>
<td>225</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>STORAGE SPACES UNDER 12'-0&quot;</td>
<td>0.20</td>
<td></td>
<td>2500</td>
<td>250</td>
<td>130</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LABORATORIES, PREP ROOMS</td>
<td>2500</td>
<td>250HC-2</td>
<td>0.20</td>
<td>130</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Jeffery M. Polo
P.E. # GE43804

RENOVATIONS TO ROWAN HALL
F-201

SCALE 3/8"=1'-0"
1. PROVIDE NEW SPRINKLER HEADS AND BRANCH PIPING WITHIN THE AREA OF SCOPE AS INDICATED ON THE PLANS TO SUIT THE NEW ARCHITECTURAL LAYOUT. IT IS ACCEPTABLE TO RE-USE AS MUCH OF THE EXISTING SPRINKLER BRANCH PIPING AS POSSIBLE. WHERE NOT ABLE TO RE-USE EXISTING, NEW PIPING SHALL BE PROVIDED.

2. THE HYDRAULIC CALCULATIONS SHALL BE BASED ON DESIGN CRITERIA LISTED BELOW.

3. ALL SPRINKLER HEADS WITHIN THE AREA OF SCOPE SHALL MATCH EXISTING UNLESS OTHERWISE NOTED. ALL SPRINKLER HEADS SHALL BE LOCATED IN THE CENTER OF THE TILE.

4. MODIFY SPRINKLER HEAD LOCATIONS ADJACENT TO AREA OF SCOPE AS NEEDED TO PROVIDE A CODE COMPLIANT LAYOUT & SYSTEM BASED ON THE NEW ARCHITECTURAL LAYOUT.

5. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND EXTENT OF AREAS OF SCOPE AND ALTERNATE BID AREAS. COORDINATE PHASING REQUIREMENTS WITH PHASING INDICATED ON ARCHITECTURAL DRAWINGS AND WITH PHASING REQUIREMENTS OF OTHER TRADES.
1. PROVIDE NEW SPRINKLER HEADS AND BRANCH PIPING WITHIN THE AREA OF SCOPE AS INDICATED ON THE PLANS TO SUIT THE NEW ARCHITECTURAL LAYOUT. IT IS ACCEPTABLE TO RE-USE AS MUCH OF THE EXISTING SPRINKLER BRANCH PIPING AS POSSIBLE. WHERE NOT ABLE TO RE-USE EXISTING, NEW PIPING SHALL BE PROVIDED.

2. THE HYDRAULIC CALCULATIONS SHALL BE BASED ON DESIGN CRITERIA LISTED BELOW.

3. ALL SPRINKLER HEADS WITHIN THE AREA OF SCOPE SHALL MATCH EXISTING UNLESS OTHERWISE NOTED. ALL SPRINKLER HEADS SHALL BE LOCATED IN THE CENTER OF THE TILE.

4. MODIFY SPRINKLER HEAD LOCATIONS ADJACENT TO AREA OF SCOPE AS NEEDED TO PROVIDE A CODE COMPLIANT LAYOUT & SYSTEM BASED ON THE NEW ARCHITECTURAL LAYOUT.

5. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND EXTENT OF AREAS OF SCOPE AND ALTERNATE BID AREAS. COORDINATE PHASING REQUIREMENTS WITH PHASING INDICATED ON ARCHITECTURAL DRAWINGS AND WITH PHASING REQUIREMENTS OF OTHER TRADES.
### General Fire Protection Notes

1. Patterns for sprinkler heads and sprinkler pipe layout are shown in the scale of 3/8"=1'-0" for preliminary design purposes. All sprinkler heads must be listed for use in the area of assembly. Design will be finalized per the approved plans.

2. The sprinkler calculation shall be done in liquid criteria (GPM).

3. All sprinkler heads shown are to comply with the code (NFPA 13).

4. Hydrant flow calculations shall be based on the code (NFPA 15).

5. Water supply from fire department shall be located as indicated in the architectural drawing.

### Sprinkler System Design Criteria

<table>
<thead>
<tr>
<th>Area Description</th>
<th>Hazard</th>
<th>Design</th>
<th>Density</th>
<th>Calculation</th>
<th>Area</th>
<th>Hose Allowance</th>
<th>Max Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office, Classroom</td>
<td>1500</td>
<td>HC-1</td>
<td>0.10</td>
<td>225</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Storage Spaces Under 12'-0&quot;</td>
<td>HC-2</td>
<td>0.20</td>
<td></td>
<td>2500</td>
<td>250</td>
<td>130</td>
<td></td>
</tr>
<tr>
<td>Laboratories, Prep Rooms</td>
<td>2500</td>
<td>HC-2</td>
<td>0.20</td>
<td>130</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Jeffery M. Polo**

P.E. # GE43804
<table>
<thead>
<tr>
<th>Audio Visual Equipment</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>123</td>
</tr>
<tr>
<td>2</td>
<td>456</td>
</tr>
<tr>
<td>3</td>
<td>789</td>
</tr>
</tbody>
</table>

**Audio Visual Equipment Legend**

- 1: Display
- 2: Microphone
- 3: Speaker

**Audio Visual Equipment Notes**

- Please ensure all equipment is functioning properly before use.
- Contact the IT department for any technical issues.

**Audio Visual Equipment Locations**

- Location A: First Floor, Auditorium
- Location B: Second Floor, Conference Room