1/16" = 1'-0" 0 4' 8' 16' | 1/8" = 1'-0" 0 2' 4' 8' | 3/16" = 1'-0" 0 2' 4' 8' | 1/4" = 1'-0" 0 1' 2' 4' | 3/8" = 1'-0" 0 1' 2' 4' | 1/2" = 1'-0" 0 6" 1' 2' | 3/4" = 1'-0" 0 3" 6" 1' 2' | 1" = 1'-0" 0 3" 6" 1' 2' | 1 1/2" = 1'-0" 0 3" 6" 1' | 3" = 1'-0" 0 1" 2" 3" 6" 1' | 6" = 1'-0" 0 1" 2" 3" 6"

130012-59

Eastern Regional Water Reclamation Facility Operations Building Renovation

MCES

APPROVAL

Richard A. Shilla, P.E. — 7/11/25

MONTGOMERY COUNTY ENVIRONMENTAL SERVICES — DATE

MONTGOMERY COUNTY

PERMIT / BID SET

ARCHITECT:

spgb ARCHITECTS

4333-A TULLER ROAD
DUBLIN, OHIO 43017

IN ASSOCIATION WITH:

LANDSCAPE ARCHITECT:

BEAM DESIGNS

4333-A TULLER ROAD
DUBLIN, OHIO 43017

MEP ENGINEERS:

tec inc. engineering & design

4995 BRADENTON BLVD, SUITE 240
DUBLIN, OHIO 43017

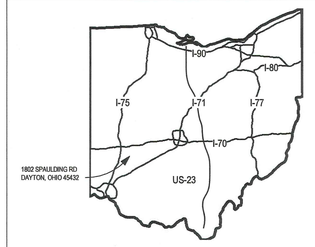
STRUCTURAL ENGINEERS:

8800 LYRA DR, SUITE 560
COLUMBUS, OHIO 43240

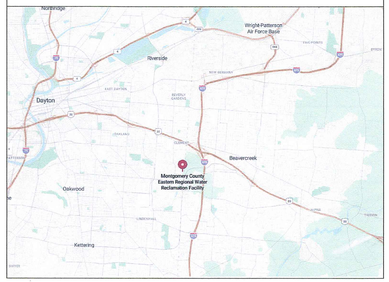
HAZARDOUS:

1441 KING AVE
COLUMBUS, OHIO 43212

VICINITY MAP



LOCATION MAP



SHEET INDEX

Sheet Number	Sheet Name
GENERAL	
G-000	COVER SHEET
G-101	LIFE SAFETY PLAN
G-102	CONTRACTOR LOGISTICS PLAN & SITE PLAN
G-103	PHASING PLANS
DEMOLITION	
AD-100	FIRST FLOOR OVERALL DEMOLITION PLAN
AD-101	FIRST FLOOR ENLARGED DEMOLITION PLANS
AD-102	SECOND FLOOR OVERALL DEMOLITION PLAN
AD-103	SECOND FLOOR ENLARGED DEMOLITION PLANS
PLUMBING DEMOLITION	
PD-100	PLUMBING FIRST FLOOR DWV DEMOLITION PLAN
PD-101	PLUMBING FIRST FLOOR DOMESTIC DEMOLITION PLAN
PD-102	PLUMBING SECOND FLOOR DEMOLITION PLAN
MECHANICAL DEMOLITION	
MD-100	HVAC FIRST FLOOR DEMOLITION PLAN
MD-101	HVAC FIRST FLOOR PIPING DEMOLITION PLAN
MD-102	HVAC SECOND FLOOR DEMOLITION PLAN
ELECTRICAL DEMOLITION	
ED-100	ELECTRICAL FIRST FLOOR POWER DEMOLITION PLAN
ED-101	ELECTRICAL FIRST FLOOR LIGHTING DEMOLITION PLAN
ED-102	ELECTRICAL SECOND FLOOR POWER DEMOLITION PLAN
ED-103	ELECTRICAL SECOND FLOOR LIGHTING DEMOLITION PLAN
LANDSCAPE	
L-101	PLANTING AND MATERIALS PLAN AND DETAILS
ARCHITECTURE	
A-001	ARCH ABBREVIATIONS, SYMBOLS & NOTES
A-002	ARCHITECTURAL ACCESSIBLE CLEARANCE
A-101	FIRST FLOOR PLAN
A-102	FIRST FLOOR ENLARGED PLANS
A-103	SECOND FLOOR PLAN
A-104	SECOND FLOOR ENLARGED PLANS
A-111	FIRST FLOOR REFLECTED CEILING PLAN
A-112	SECOND FLOOR REFLECTED CEILING PLAN
A-201	EXTERIOR BUILDING ELEVATIONS
A-401	FIRST FLOOR INTERIOR ELEVATIONS
A-402	FIRST FLOOR INTERIOR ELEVATIONS CONT.
A-403	FIRST FLOOR INTERIOR ELEVATIONS CONT.
A-404	SECOND FLOOR INTERIOR ELEVATIONS
A-405	SECOND FLOOR INTERIOR ELEVATIONS CONT.
A-420	VERTICAL CIRCULATION STAIR PLANS & SECTIONS
A-520	INTERIOR PARTITION TYPES
A-540	MISC INTERIOR DETAILS
A-541	MISC INTERIOR DETAILS
A-542	TYP FLOOR TRANSITIONS
A-543	TYP INTERIOR TILE DETAILS
A-544	TYP INTERIOR COLUMN DETAILS
A-601	DOOR SCHEDULE, TYPES & DETAILS
A-610	WINDOW TYPES & DETAILS
A-620	FINISH SCHEDULE
A-621	FIRST FLOOR FINISH PLAN
A-622	SECOND FLOOR FINISH PLAN
A-630	SIGNAGE SCHEDULE

SHEET INDEX

Sheet Number	Sheet Name
LABORATORY	
Q-001	STANDARD LAB SCHEDULES AND DETAILS
Q-401	ENLARGED LAB PLANS
Q-411	LAB CASEWORK ELEVATIONS
Q-412	LAB CASEWORK ELEVATIONS AND TYPICAL DETAILS
STRUCTURAL	
S-001	GENERAL NOTES
S-002	SPECIAL INSPECTIONS & TESTING
S-003	TYPICAL REPAIR DETAILS
S-101	PARTIAL FOUNDATION PLAN
S-102	STRUCTURAL RESTORATION PLAN
S-103	SIGNAGE SUPPORT FRAMING PLAN
S-501	REPRESENTATIVE PHOTOS
PLUMBING	
P-001	PLUMBING GENERAL NOTES, SYMBOLS & ABBREVIATIONS
P-200	PLUMBING UNDERGROUND DWV NEW WORK PLAN
P-201	PLUMBING FIRST FLOOR DWV NEW WORK PLAN
P-202	PLUMBING FIRST FLOOR DOMESTIC NEW WORK PLAN
P-203	PLUMBING SECOND FLOOR NEW WORK PLANS
P-300	PLUMBING DETAILS
P-301	PLUMBING DETAILS
P-302	PLUMBING DMV ISOMETRIC
P-400	PLUMBING FIXTURE SCHEDULES
MECHANICAL	
M-001	HVAC GENERAL NOTES, SYMBOLS, & ABBREVIATIONS
M-200	HVAC FIRST FLOOR NEW WORK PLAN
M-201	HVAC FIRST FLOOR PIPING NEW WORK PLAN
M-202	HVAC SECOND FLOOR NEW WORK PLAN
M-300	HVAC SCHEDULES
M-301	HVAC DETAILS
M-400	HVAC LAB AIRFLOW CONTROL DIAGRAMS
M-401	HVAC TEMPAREATURE AIRFLOW CONROL DIAGRAMS
ELECTRICAL	
E-001	ELECTRICAL SYMBOL LIST & LIGHTING SCHEDULE
E-200	ELECTRICAL FIRST FLOOR POWER NEW WORK PLAN
E-201	ELECTRICAL FIRST FLOOR LIGHTING NEW WORK PLAN
E-202	ELECTRICAL SECOND FLOOR POWER NEW WORK PLAN
E-203	ELECTRICAL SECOND FLOOR LIGHTING NEW WORK PLAN
E-204	ELECTRICAL FIRST FLOOR SECURITY AND ACCESS CONTROL FLOOR PLAN
E-205	ELECTRICAL SECOND FLOOR SECURITY AND ACCESS CONTROL FLOOR PLAN

STATE OF OHIO — THOMAS W. GATES — 12169 — 6-26-25 — REGISTERED ARCHITECT

THOMAS W. GATES
ARC.9812169
EXP. 12/31/2025

SPGB Architects
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8983

DESIGNED BY: SPGB ARCHITECTS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'D:	DATE:

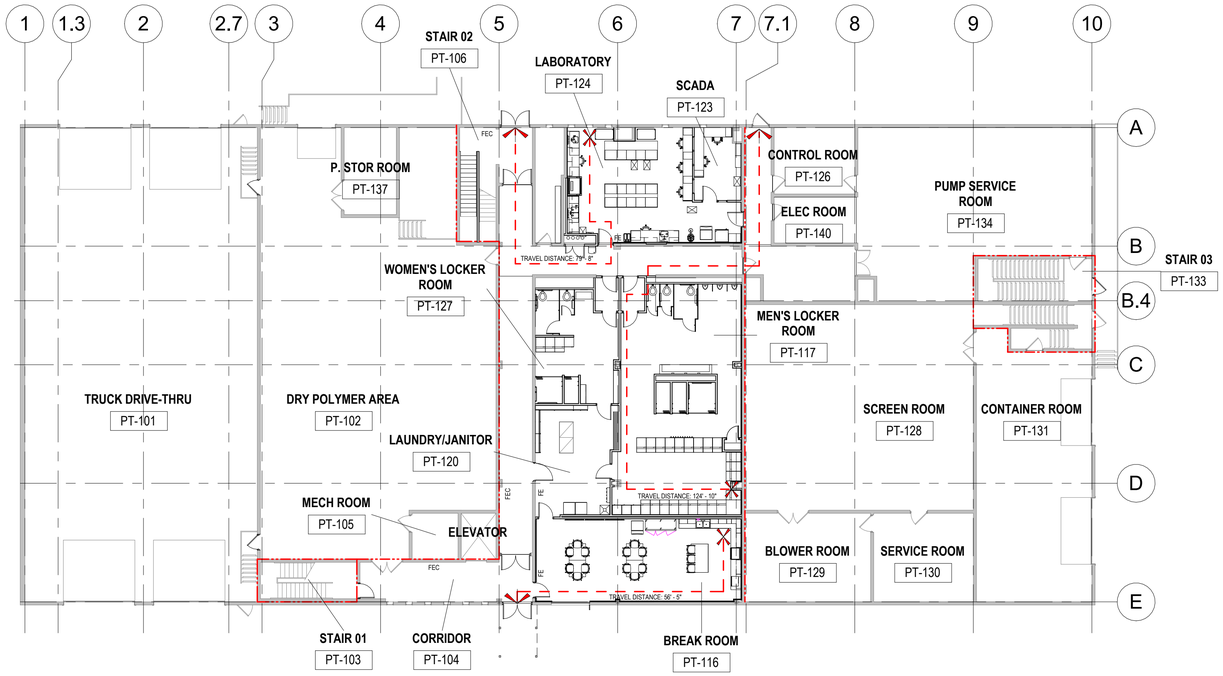
COVER SHEET

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.
G-000

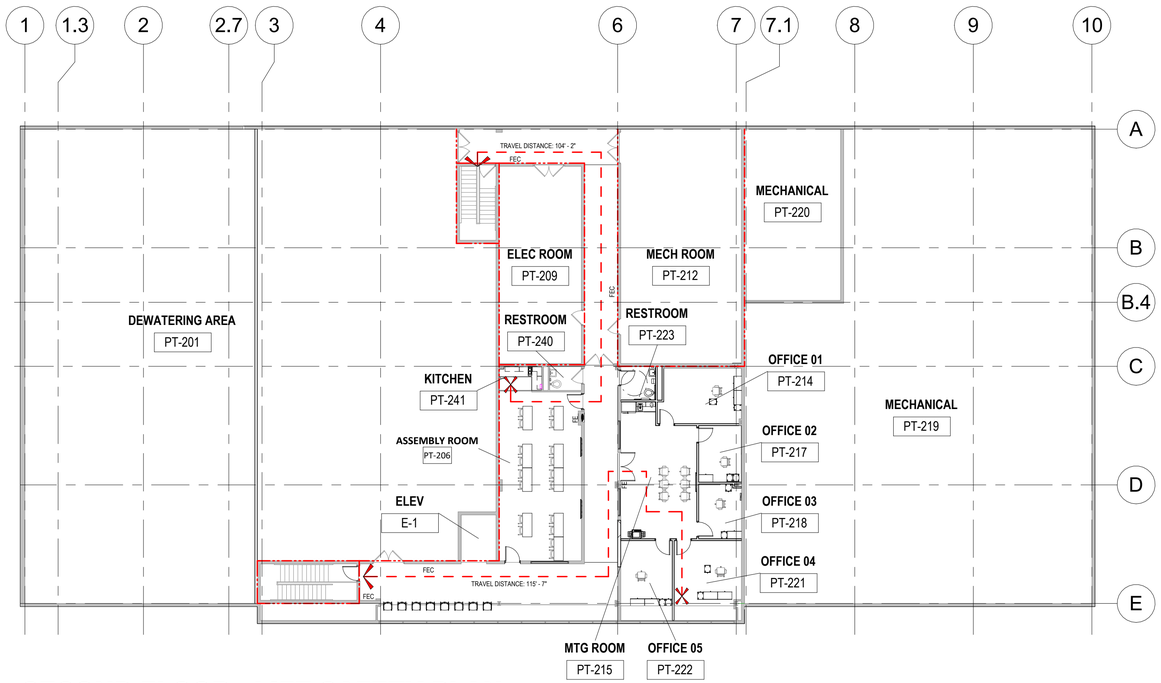
PROJ NO.: 130012-59
DATE: 6/25/2025

1/16" = 1'-0" | 1/8" = 1'-0" | 3/16" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"



1 FIRST FLOOR - LIFE SAFETY PLAN

1/16" = 1'-0"



2 SECOND FLOOR - LIFE SAFETY PLAN

1/16" = 1'-0"

BUILDING CODE

2024 Ohio Building Code (OBC) & 2024 Ohio Existing Building Code (OEBC)
2024 Ohio Mechanical Code OMC)
2017 Ohio Energy Codes
2015 ICC A117.1 Accessible and Usable Buildings and Facilities

Montgomery County Environmental Services (MCES) Eastern Operations Building

SECTION 3
OEBC 301.3.1 Prescriptive compliance method

Existing Building Type: **IIB – Non-combustible / unprotected**
Proposed Building Type: **Unchanged**

Existing Building Use: **F-2, Low-hazard factory industrial.**
Proposed Building Use: **Unchanged**

SECTION 4
CHAPTER 4 - Repairs maintain the level of protection required for fire protection & means of egress.

SECTION 5
CHAPTER 5 - Prescriptive Compliance Method (OEBC 301.3.1)
Section 503 - Alterations

F-2 Factory Use Group
Table 506 Allowable Building Area, per floor 23,000 SF
Table 504 Allowable Height 3 stories and 55'

Total Allowable Height 3 stories, 55' for F - **Unchanged**

Total Allowable Building Area/Floor 23,000 SF allowable per story - **Unchanged**
Existing First Floor Level = 22,000 SF **(renovated area = 5,433 SF)**
Existing Second Floor Level = 18,803 SF **(renovated area = 3,425 SF)**
Total = 40,803 SF

Total renovated area = 8,858 SF

Section 509.1 Incidental Uses - Laundry rooms over 100 SF **1 Hour**

SECTION 6
Fire-Resistance Rating Requirements for Building Elements:
Table 601

Primary Structural Frame:	**0 Hours**
Exterior Load Bearing Walls:	**0 Hours**
Interior Load Bearing Walls:	**0 Hours**
Non-Load Bearing Partitions:	**0 Hour**
Floor construction and associated secondary members:	**0 Hours**
Roof Construction and associated secondary members:	**0 Hour**

Egress Width: The capacity, in inches, of means of egress components other than stairways shall be OBC 1005.3.2 calculated by multiplying the occupant load served by such component by a means of egress capacity factor of 0.2 inch per occupant. Stairs shall be calculated at 0.3 inch per occupant.

SECTION 9
Fire Protection: 903.2 — F-2 Building is not required to be Sprinklered - Renovated areas will modify administration portion only. In a meeting with Kettering Fire Marshal and City of Kettering Building Official that occurred on 10/15/2024, it was verified that the building will not need to be sprinklered as part of the proposed Project.

Commercial cooking operations: 903.2.11.5 — An automatic sprinkler system shall be installed in commercial kitchen exhaust hood and duct systems where an automatic sprinkler system is used to comply with Section 904.

Commercial hood and duct systems: 904.2.2 — Each required commercial kitchen exhaust hood and duct system to have a Type 1 hood shall be protected with an approved automatic fire-extinguishing system.

Existing Occupant Load: Table 1004.5 — Industrial areas 100 gross - 26 total employees **Unchanged**

SECTION 10
Max Distance to Exit: Table 1017.2 — F-2: 300 ft w/out sprinkler

Common Path of Travel: Table 1006.2.1 — F: 75 ft w/out sprinkler & <30 occupants

Exit Stairs Rating: 1023.2 — 1 Hour - **Unchanged**

Exit Access Corridors: 1020.2 — 0 Hours w/ Occupant Load less than 30

Min. Corridor Widths: Table 1020.3

Any occupancy not listed:	44 inches
Access to MEP equipment:	24 inches
Occupant load less than 50:	36 inches

Min. Stair Widths: 1011.2 & 1009.3.2 — Any occupancy that is non accessible: 44 inches
Accessible stairs in w/o sprinklers: 48 inches min. between rails
Occupant load less than 50 non accessible: 36 inches

Plumbing Fixture Counts: Table 2902.1 — **Replaced one for one on the First Floor Level; upgrading to include ADA Accessible Toilet Stalls, Sinks & Showers**

Added One ADA accessible Unisex Restroom on the Second Floor Level

Structural Live Loads: **Unchanged**

FIRE RATED ASSEMBLY LEGEND

- LIFE SAFETY TRAVEL DISTANCE
- 1 HR RATED ASSEMBLY
- START
- EXIT

STATE OF OHIO — THOMAS W. GATES — 12169 — 6-26-25 — REGISTERED ARCHITECT

THOMAS W. GATES
ARC.9812169
EXP. 12/31/2025

SPGB Architects
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'VD:	DATE:

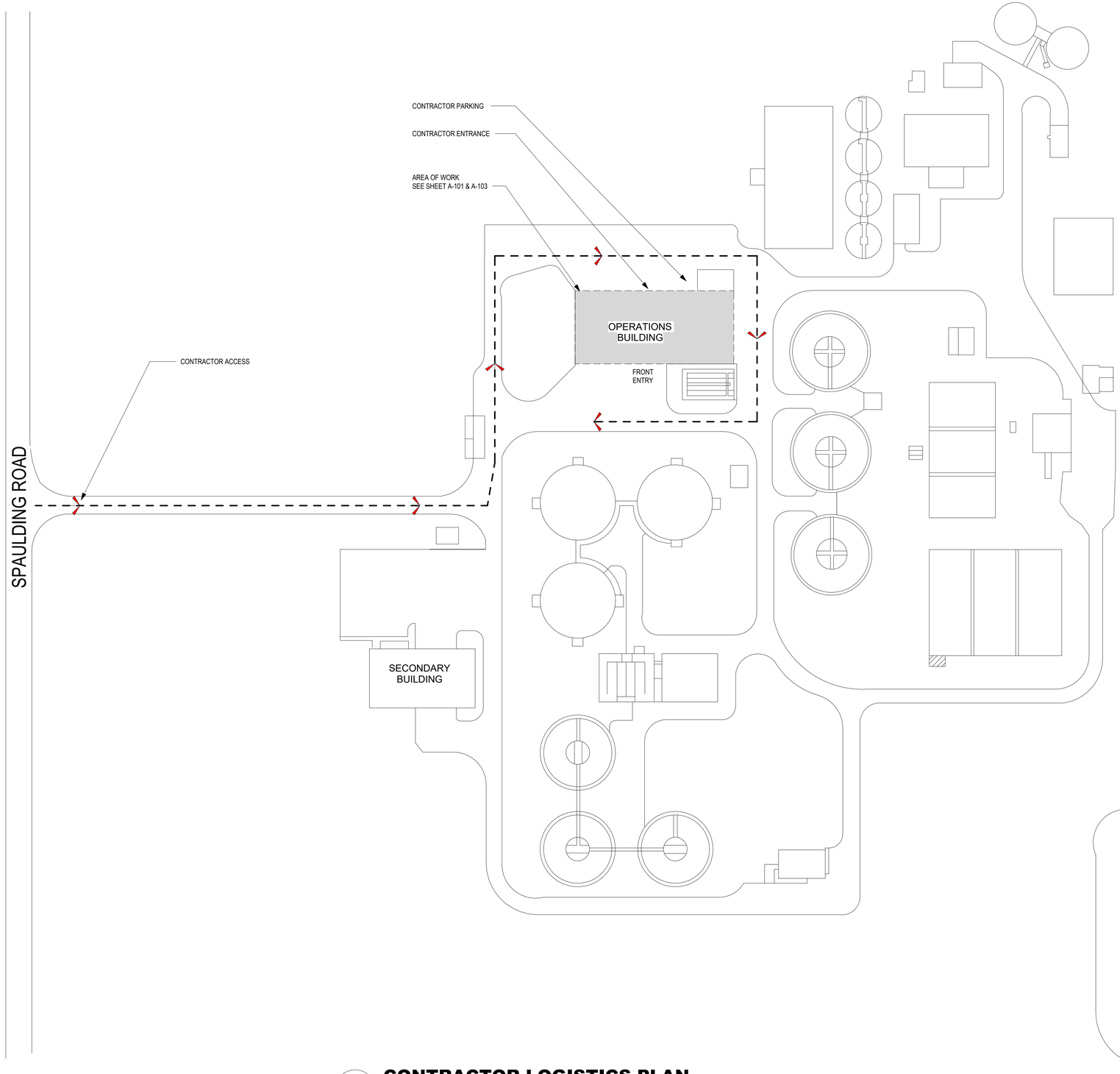
LIFE SAFETY PLAN

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.
G-101

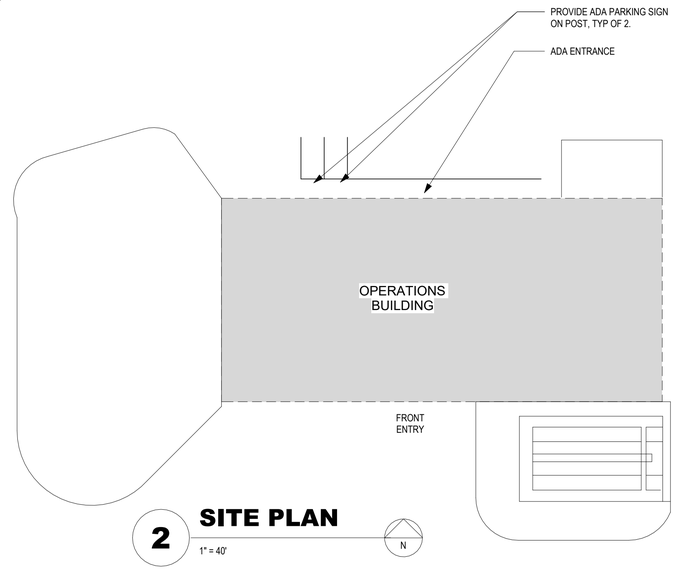
PROJ NO.: 130012-59
DATE: 6/25/2025

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



1 CONTRACTOR LOGISTICS PLAN

1" = 80'-0"



2 SITE PLAN

1" = 40'

GENERAL NOTES

A. CONTRACTOR TO MAINTAIN TWO MEANS OF EGRESS AT ALL TIMES. MAINTAIN MIN. 44" CLEARANCE IN CORRIDORS FOR FREE EGRESS AT ALL TIMES.

B. CONTRACTOR LAYDOWN TO BE WITHIN THE CONSTRUCTION SPACE.

C. CONTRACTOR TO MAINTAIN CONSTRUCTION BARRIER BETWEEN THE CONSTRUCTION AREA AND THE REST OF THE OCCUPIED BUILDING.

D. FOR ITEMS TO BE REMOVED - CONTRACTOR TO DISPOSE OF PROPERLY. CONTRACTOR TO PROVIDE A WASTE-COLLECTION CONTAINER & IT SHALL BE LOCATED AS DIRECTED BY THE OWNER DURING DEMOLITION. CONTRACTOR SHALL NOT USE MCES DUMPSTERS.

E. MAINTAIN & PROTECT ELECTRICAL DEVICES & THERMOSTATS AT WALLS, U.O.N.

F. CONTRACTOR SHALL PROVIDE PORTABLE RESTROOM FACILITIES REQUIRED FOR CONTRACTOR USE THROUGHOUT THE DURATION OF THE PROJECT. COORDINATE LOCATION WITH OWNER.

STATE OF OHIO
THOMAS W. GATES
12169
6-26-25
REGISTERED ARCHITECT

THOMAS W. GATES
ARC.9812169
EXP. 12/31/2025

SPGB Architects
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'D.	DATE:

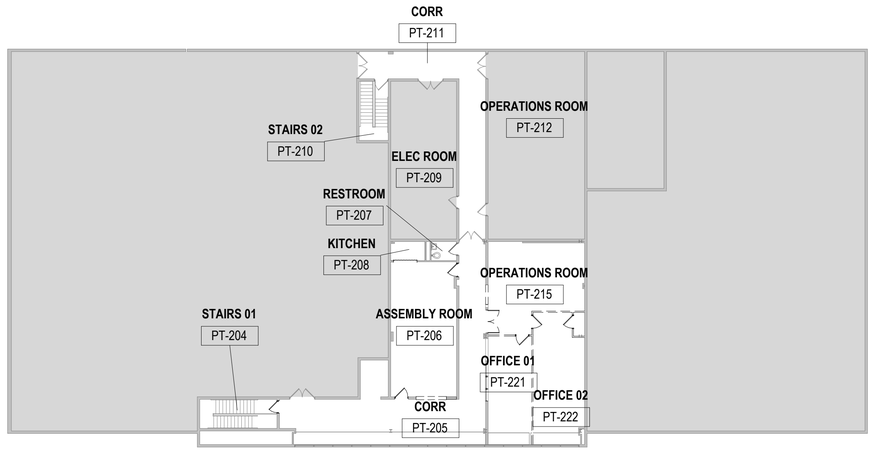
CONTRACTOR LOGISTICS PLAN & SITE PLAN

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.
G-102

PROJ NO.: 130012-59
DATE: 6/25/2025

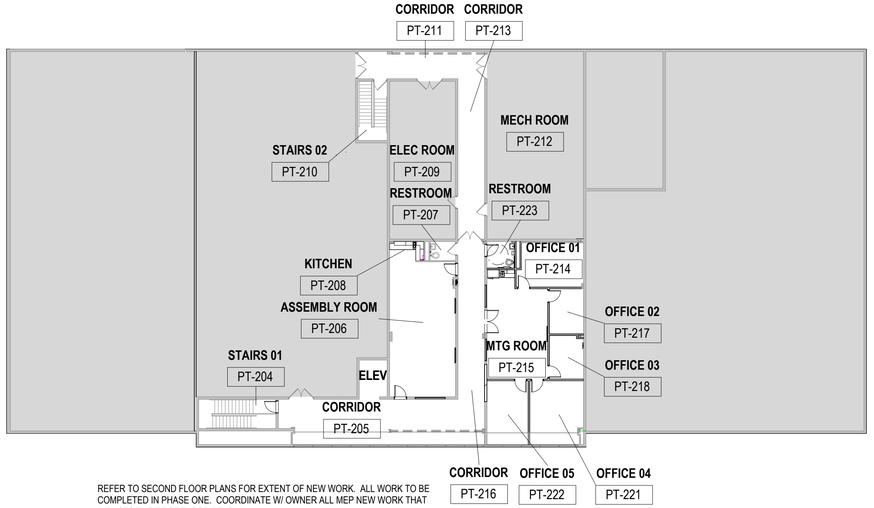
1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



REFER TO SECOND FLOOR DEMOLITION PLANS FOR EXTENT OF DEMOLITION WORK. ALL WORK TO BE COMPLETED IN PHASE ONE. COORDINATE W/ OWNER ALL MEP DEMOLITION WORK THAT IMPACTS THE FIRST FLOOR BELOW.

1 SECOND FLOOR DEMOLITION PLAN - PHASE ONE

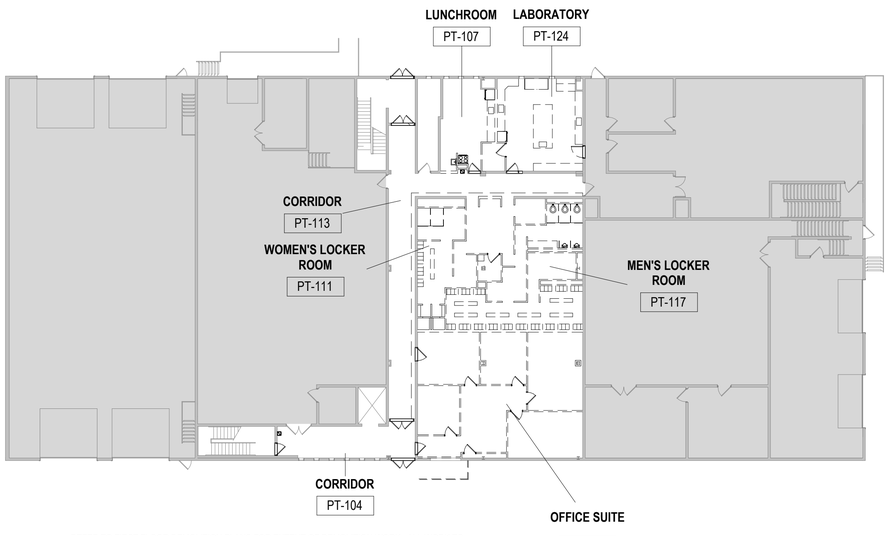
1" = 20'-0"



REFER TO SECOND FLOOR PLANS FOR EXTENT OF NEW WORK. ALL WORK TO BE COMPLETED IN PHASE ONE. COORDINATE W/ OWNER ALL MEP NEW WORK THAT IMPACTS THE FIRST FLOOR BELOW.

2 SECOND FLOOR PLAN - PHASE ONE

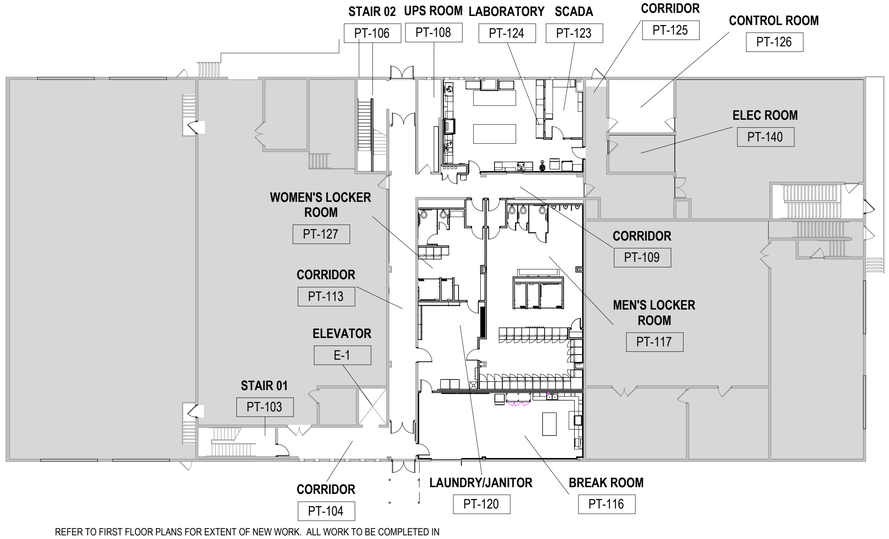
1" = 20'-0"



REFER TO FIRST FLOOR DEMOLITION PLANS FOR EXTENT OF DEMOLITION WORK. ALL WORK TO BE COMPLETED IN PHASE TWO. COORDINATE W/ OWNER ALL MEP DEMO WORK THAT IS REQUIRED FOR SECOND FLOOR TIE-INS.

3 FIRST FLOOR DEMOLITION PLAN - PHASE TWO

1" = 20'-0"



REFER TO FIRST FLOOR PLANS FOR EXTENT OF NEW WORK. ALL WORK TO BE COMPLETED IN PHASE TWO. COORDINATE W/ OWNER ALL MEP SHUT DOWNS REQUIRED TO PERFORM TIE-INS FOR SECOND FLOOR WORK. THAT IMPACTS THE FIRST FLOOR BELOW.

4 FIRST FLOOR PLAN - PHASE TWO

1" = 20'-0"

PHASING PLAN GENERAL NOTES

A. PHASE ONE - SECOND FLOOR DEMO & NEW WORK.

B. PHASE TWO - FIRST FLOOR OFFICE OCCUPANTS MOVE TO SECOND FLOOR.

C. USE ASSEMBLY ROOM FOR TEMP BREAKROOM.

D. RENOVATE FIRST FLOOR LAB, BREAKROOM, LOCKER ROOMS.

STATE OF OHIO
THOMAS W. GATES
12169
6-26-25
REGISTERED ARCHITECT

THOMAS W. GATES
ARC.9812169
EXP. 12/31/2025

SPGB Architects
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'VD:	DATE:

PHASING PLANS

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.
G-103

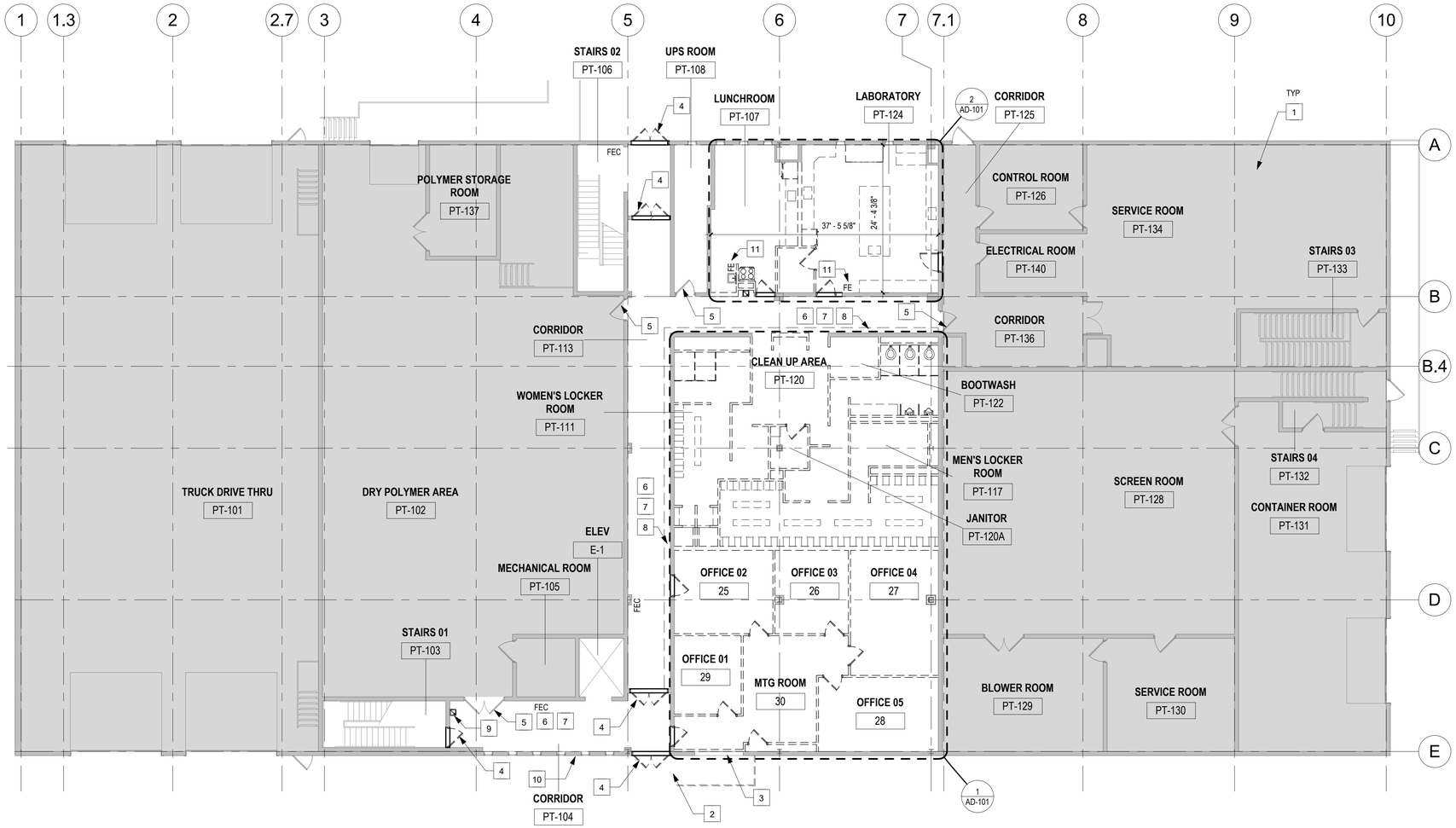
PROJ NO.: 130012-59
DATE: 6/25/2025

1/16" = 1'-0" | 1/8" = 1'-0" | 3/16" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"

CODED NOTES

X

1	NO WORK IN AREA AS INDICATED BY SHADED REGION UON
2	REMOVE EXISTING CONCRETE DOCK, DOCK LEVELER, CONCRETE ENTRY STAIRS & ALUM RAILING. PROVIDE TEMP SUPPORT FOR EXISTING AWNING UNTIL NEW CONSTRUCTION IS COMPLETE. REFER TO SITE & LANDSCAPE DWGS FOR NEW WORK THIS AREA.
3	REMOVE EXISTING OH DOOR
4	REMOVE EXIST DOOR(S), FRAME & HARDWARE.
5	MAINTAIN EXIST DOOR(S), FRAME & HARDWARE
6	REMOVE FLOOR TILE & WALL BASE, TYP ENTIRE RM
7	REMOVE EXISTING CEILING TILE, GRID, AND SUSPENSION SYSTEM IN ITS ENTIRETY. REFER TO MEP DWGS FOR ADDITIONAL INFORMATION
8	REMOVE EXIST SOFFIT IN ITS ENTIRETY. ROOF STRUCTURE TO REMAIN
9	REMOVE EXIST DRINKING FOUNTAIN. REFER TO MEP DRAWINGS.
10	REMOVE EXISTING EXTERIOR SIGNAGE.
11	EXISTING FIRE EXTINGUISHER TO BE RELOCATED



1 FIRST FLOOR DEMOLITION PLAN

3/32" = 1'-0"

N

DEMOLITION GENERAL NOTES

DEMOLITION GENERAL NOTES:

A. THE GENERAL CONTRACTOR SHALL COMPLETE ALL SELECTIVE DEMOLITION WORK REQUIRED IN ROOMS TO BE COMPLETELY REMODELED, EXCEPT THAT WHICH IS NOTED OTHERWISE. WORK INCLUDES, BUT IS NOT LIMITED TO (COORDINATE LIMITS WITH FLOOR PLANS):

1. PARTITIONS INDICATED WITH DASHED LINES.
2. DOORS, FRAMES, & HARDWARE INDICATED AS DASHED LINES.
3. EXISTING FLOORING FINISH & ADHESIVES.
4. EXISTING CEILING FINISH & ANCHORAGE DEVICES.
5. EXISTING WALL BASE.
6. EXISTING PLUMBING SYSTEMS BACK TO POINT CONCEALED BY NEW CONSTRUCTION OR AS REQUIRED FOR NEW EXTENT OF CONTRUCTION FOR ALL CONTRACORS INCLUDING, BUT NOT LIMITED TO, VALVES, HANGERS, INSULATION, & FLOOR DRAINS.
7. EXISTING HVAC SYSTEMS BACK TO POINT CONCEALED BY NEW CONTRUCTION OR AS REQUIRED FOR NEW CONSTRUCTION BY ALL CONTRACTORS INCLUDING, BUT NOT LIMITED TO:
   a. ALL DUCTS, DIFFUSERS, DAMPERS, GRILLES, THERMOSTATS, INSULATION, & HANGERS.
   b. ALL HOT WATER STEAM & CONDENSATE PIPING, INSULATION, VALVES, & HANGERS.
8. EXISTING ELECTRICAL SYSTEMS BACK TO A POINT CONCEALED BY NEW CONSTRUCTION OR AS REQUIRED FOR NEW CONTRUCTION BY ALL CONTRACTORS INCLUDING, BUT NOT LIMITED TO :
   a. ALL LIGHTS, SWITCHES, RECEPACLES, PANELBOARDS, SPEAKERS, TELEPHONE DEVICES, & CLOCKS.
   b. ABANDONED CONDUIT, WIRE, JUNCTION BOXES, & HANGERS.

B. DEMOLISH ALL FEC CABINETS, BENCHES, TACKBOARDS, DISPLAY CASES, ETC.

C. THE CONTRACTOR SHALL SCHEDULE ALL INTERRUPTIONS OF UTILITIES WITH THE OWNER.

D. MAINTAIN & PROTECT EXISTING EXTERIOR WINDOW SYSTEMS (GLAZING, FRAMES, & WINDOW SILLS) & EXISTING EXTERIOR DRAIN WALL SYSTEMS (GLAZING, INSULATED SPADREL PANELS, & FRAMES).

E. THE OWNER WILL OCCUPY ADJACENT BUILDING AREAS DURING CONSTRUCTION PERIOD. CONTRACTOR TO COORDINATE ACCESS TO ANY RESTRICTED AREAS WITH THE OWNER.

F. CONTRACTOR, FOR THE PORTION OF THE WORK INDICATED ON PLAN, IS TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPANCIES BETWEEN ACTUAL CONDITIONS & THOSE INDICATED ON DRAWINGS SHOULD BE REPORTED TO THE A/E IMMEDIATELY.

G. ALL DAMAGE TO WALLS, FLOOR, & FIXTURES INCURRED BY REMOVAL OF ITEMS OR DEMOLITION WORK IS TO BE PATCHED & REFINISHED.

H. PROVIDE ALL SELECTIVE BUILDING DEMOLTION WORK REQUIRED TO COMPLETE ALL NEW WORK & REMODELING WORK WHETHER SPECIFICALLY NOTED OR NOT.

I. THE OWNER RETAINS THE RIGHT TO SALVAGE EXISTING BUILDING ITEMS INCLUDING, BUT NOT LIMITED TO:

1. PLUMBING FIXTURES
2. LOOSE FURNISHINGS
3. 200 SQUARE FEET OF CEILING PANELS

J. IMMEDIATELY PRIOR TO THE START OF DEMOLITION, THE OWNER WILL VACATE & REMOVE ALL LOOSE FURNISHINGS. THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO TABLES, DESKS, & CHAIRS, KEY LOCKS, MISC. HARDWARE. CONTRACTOR TO COORDINATE REMODELING SCHEDULE WITH THE OWNER & NOTIFY THEM OF START DATE TWO WEEKS & AT 72 HOURS IN ADVANCE.

K. COORDINATE LIMITS OF SELECTIVE DEMOLITION OF MECHANICAL/ELECTRICAL SYSTEMS WITH THE PLUMBING, HVAC, & ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS. PLUMBING, HVAC, & ELECTRICAL CONTRACTORS ARE RESPONSIBLE FOR:

1. IDENTIFYING TERMINATION POINTS OF DEMOLITION
2. TEMPORARY SHUT DOWN & CAPPING EXISTING ACTIVE PIPE, DUCTS, OR ELECTRICAL CIRCUITS.
3. RECONFIGURATION OF EXISTING SYSTEMS.
4. DISCONNECTING ABANDONED ELECTRICAL CIRCUITS.
5. HOLES IN EXISTING CONSTRUCTION REQUIRED FOR NEW CONSTRUCTIONS, U.O.N.

L. PATCH & REFINISH ALL LOCATIONS WHERE EQUIPMENT, DUCTS, CONDUITS, ETC. HAVE BEEN REMOVED. COORDINATE WITH MEP DRAWINGS.

STATE OF OHIO
THOMAS W. GATES
12169
6-26-25
REGISTERED ARCHITECT

THOMAS W. GATES
ARC.9812169
EXP. 12/31/2025

SPGB Architects
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'VD:	DATE:

FIRST FLOOR OVERALL DEMOLITION PLAN

Eastern Regional Water Reclamation Facility Operations Building Renovation

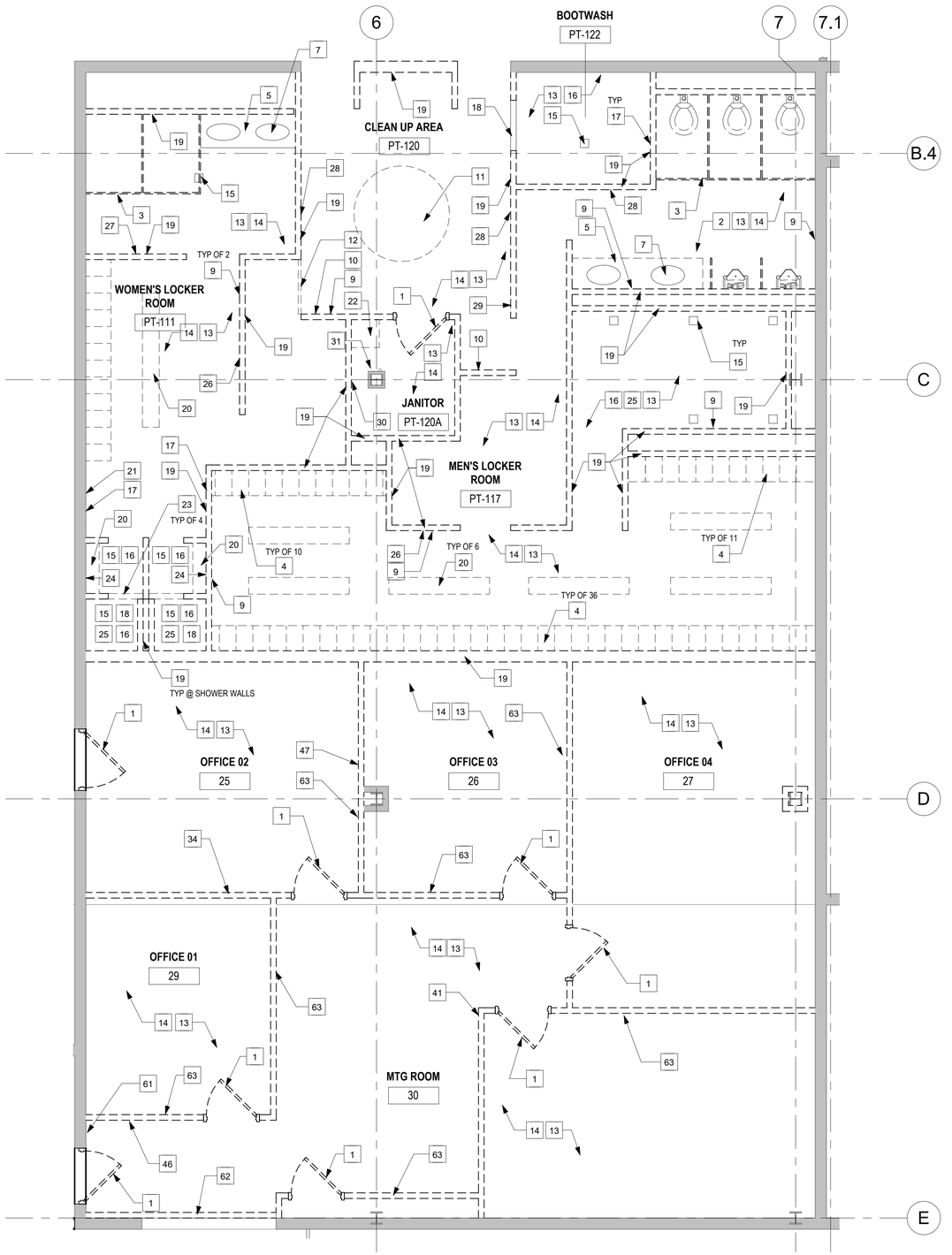
SHEET NO.

AD-100

PROJ NO.: 130012-59

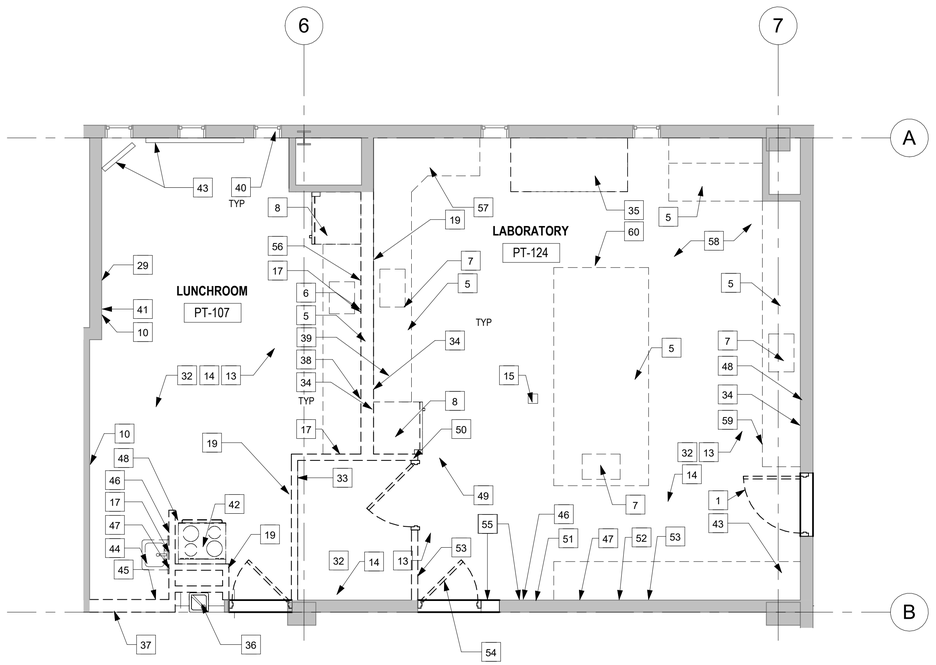
DATE: 6/25/2025

1/16" = 1'-0" 0 4' 8' 16' | 1/8" = 1'-0" 0 2' 4' 8' | 3/16" = 1'-0" 0 2' 4' 8' | 1/4" = 1'-0" 0 1' 2' 4' | 3/8" = 1'-0" 0 1' 2' 4' | 1/2" = 1'-0" 0 6" 1' 2' | 3/4" = 1'-0" 0 3" 6" 1' 2' | 1" = 1'-0" 0 3" 6" 1' 2' | 1 1/2" = 1'-0" 0 3" 6" 1' | 3" = 1'-0" 0 1" 2" 3" 6" 1' | 6" = 1'-0" 0 1" 2" 3" 6"



1 FIRST FLOOR ENLARGED DEMOLITION PLAN - OFFICES & LOCKER RM

1/4" = 1'-0"



2 FIRST FLOOR ENLARGED DEMOLITION PLAN - LAB

1/4" = 1'-0"

GENERAL NOTES

A. REFER TO SHEET AD-100 FOR GENERAL DEMOLITION NOTES.

B. REFER TO MEP DRAWINGS FOR DEMOLITION OF MEP ITEMS.

CODED NOTES

X	
1	REMOVE EXIST DOOR(S), FRAME & HARDWARE.
2	REMOVE EXIST RESTROOM FIXTURES, TYP ENTIRE ROOM. ITEMS INCLUDE, BUT ARE NOT LIMITED TO, WATER CLOSET, LAVATORY, MIRROR (SALVAGE TO REINSTALL) & HANDSOAP (SALVAGE TO REINSTALL), ETC. REFER TO MEP DRAWINGS. MAINTAIN RECESSED TRASH RECEPTACLE WHERE APPLICABLE
3	REMOVE EXISTING TOILET PARTITION.
4	REMOVE EXISTING LOCKER
5	REMOVE EXISTING CASEWORK & PLAM COUNTERTOP
6	REMOVE SINK, GARBAGE DISPOSAL, WATER SUPPLY & SANITARY. REFER TO MEP DRAWINGS.
7	REMOVE EXISTING SINK, TYP OF 2. REFER TO PLUMBING DWGS
8	REMOVE EXIST BIOHAZARD REFRIGERATOR
9	REMOVE EXIST WALL MOUNTED MIRROR, TYP OF 2.
10	REMOVE EXIST SIGNAGE
11	REMOVE ROUND TROUGH SINK. SIZE AN LOCATION APPROXIMATE, CONTRACTOR TO FIELD VERIFY. REFER TO PLUMBING DWGS
12	REMOVE PARTIAL HEIGHT PLYWOOD DOOR & WOOD BLOCKING MOUNT
13	REMOVE FLOOR TILE & WALL BASE, TYP ENTIRE RM
14	REMOVE EXISTING CEILING TILE, GRID, AND SUSPENSION SYSTEM IN ITS ENTIRETY. REFER TO MEP DWGS FOR ADDITIONAL INFORMATION
15	EXIST FLOOR DRAIN TO BE REMOVED. LOCATION APPROXIMATE, CONTRACTOR TO FIELD VERIFY. REFER TO PLUMBING DWGS
16	REMOVE EXIST GYP BD CEILING & LIGHT FIXTURES, REFER TO MEP DWGS
17	REMOVE EXIST SHELF
18	REMOVE EXIST CONCRETE STEP
19	REMOVE EXIST CMU PARTITION.
20	REMOVE EXIST FLOOR MOUNTED BENCH
21	REMOVE EXIST WALL MOUNTED COAT HOOK AND/OR RACK
22	REMOVE EXIST MOP SINK. REFER TO PLUMBING DRAWING.
23	REMOVE EXIST SHOWER CURTAIN ROD
24	REMOVE EXIST WALL MOUNTED TOWEL ROD
25	REMOVE EXIST SHOWER FIXTURES. REFER TO PLUMBING DRAWINGS.
26	REMOVE EXISTING WALL HEATER. REFER TO MEP DRAWINGS
27	REMOVE EXIST WALL MOUNTED SANITARY NAPKIN DISPENSER
28	REMOVE WALL MOUNTED TRASH RECEPTACLE & PAPER TOWEL DISPENSER
29	REMOVE EXIST WALL MOUNTED SPEAKER. REFER TO MEP DRAWINGS.

CODED NOTES

X	
30	REMOVE EXISTING WALL MOUNTED SHELF
31	EXIST FLOOR CLEAN OUT DRAIN, REFER TO PLUMBING DWGS
32	MAINTAIN EXISTING EXPOSED CONDUIT, TYP ENTIRE ROOM UON REFER TO MEP DWGS
33	REMOVE LAB HEATER CONTROL SWITCH. REFER TO MEP DRAWINGS.
34	REMOVE EXISTING UPPER CABINET(S)
35	REMOVE EXIST FUME HOOD & OXYGEN TANK(S)
36	REMOVE EXIST DRINKING FOUNTAIN. REFER TO MEP DRAWINGS.
37	REMOVE EXIST WALL MAP
38	EXIST CONC STEPS TO REMAIN.
39	REMOVE EXIST WALL MOUNTED DRYING RACK
40	EXIST EXTERIOR WINDOW TO REMAIN
41	REMOVE EXIST LIGHT FIXTURE, REFER TO MEP DWGS
42	REMOVE EXIST OVEN. REFER TO MEP DRAWINGS.
43	REMOVE EXIST MONITOR & RETURN TO OWNER. REFER TO MEP DRAWINGS.
44	REMOVE EXIST HANDWASH SINK
45	REMOVE EXIST SOAP DISPENSER
46	REMOVE EXIST FIRE EXTINGUISHER.
47	REMOVE EXISTING WALL MOUNTED MARKERBOARD
48	REMOVE EXIST PAPER TOWEL DISPENSER
49	RELOCATE EXIST WALL MOUNTED FIRE ALARM, REFER TO ELEC DWGS
50	REMOVE EXIST FIRST ADD KIT & SIGN.
51	REMOVE EXISTING EYE WASH SHOWER STATION. REFER TO PLUMBING DRAWINGS.
52	REMOVE EXIST CLOCK
53	REMOVE EXIST TACKBOARD
54	REMOVE EXIST DOOR & SIDE LITE, FRAME & HARDWARE
55	EXIST THERMOSTAT TO BE REMOVED, REFER TO MEP DWGS
56	REMOVE EXIST ELECTRICAL RACEWAY AND/OR GAS VALVE(S), TYP ENTIRE ROOM. REFER TO MEP DWGS
57	REMOVE EXIST FAN/VENTILATOR. REFER TO MEP DRAWINGS.
58	REMOVE EXIST PIPING, TYP ENTIRE ROOM. REFER TO PLUMBING DWGS
59	REMOVE EXIST DISHWASHER. REFER TO MEP DRAWINGS.
60	REMOVE EXIST FLOOR TO CEILING POLE
61	EXIST EXIT SIGN, REFER TO MEP DWGS
62	REMOVE PORTIONS OF EXISTING PARTITION FOR WINDOW. REFER TO PLANS FOR LOCATION.
63	REMOVE EXIST MTL STUD PARTITION, TYP SHOWN DASHED

STATE OF OHIO
THOMAS W. GATES
12169
6-26-25
REGISTERED ARCHITECT

THOMAS W. GATES

ARC.9812169

EXP. 12/31/2025

SPGB Architects
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'VD:	DATE:

FIRST FLOOR ENLARGED DEMOLITION PLANS

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.

AD-101

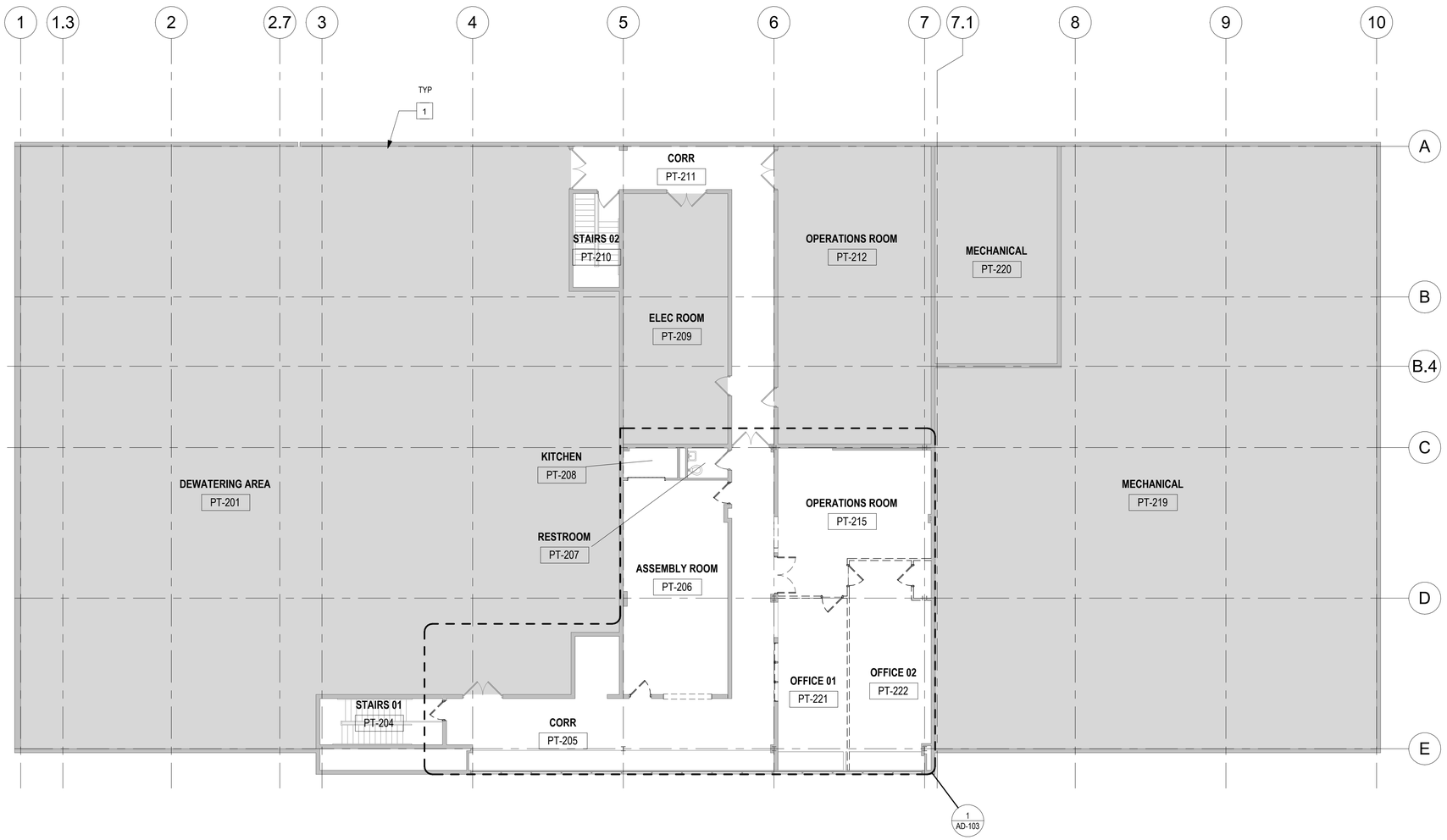
PROJ NO.: 130012-59

DATE: 6/25/2025

1/16" = 1'-0" 0 4" 8" 16'
1/8" = 1'-0" 0 2" 4" 8'
3/16" = 1'-0" 0 2" 4" 8"
1/4" = 1'-0" 0 1" 2" 4'
3/8" = 1'-0" 0 1" 2" 4"
1/2" = 1'-0" 0 6" 1" 2"
3/4" = 1'-0" 0 3" 6" 1" 2"
1" = 1'-0" 0 3" 6" 1" 2"
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"

CODED NOTES X

1	NO WORK IN AREA AS INDICATED BY SHADED REGION UON



1 SECOND FLOOR OVERALL DEMOLITION PLAN

3/32" = 1'-0"

N

DEMOLITION GENERAL NOTES

DEMOLITION GENERAL NOTES:

A. THE GENERAL CONTRACTOR SHALL COMPLETE ALL SELECTIVE DEMOLITION WORK REQUIRED IN ROOMS TO BE COMPLETELY REMODELED, EXCEPT THAT WHICH IS NOTED OTHERWISE. WORK INCLUDES, BUT IS NOT LIMITED TO (COORDINATE LIMITS WITH FLOOR PLANS):

1. PARTITIONS INDICATED WITH DASHED LINES.
2. DOORS, FRAMES, & HARDWARE INDICATED AS DASHED LINES.
3. EXISTING FLOORING FINISH & ADHESIVES.
4. EXISTING CEILING FINISH & ANCHORAGE DEVICES.
5. EXISTING WALL BASE.
6. EXISTING PLUMBING SYSTEMS BACK TO POINT CONCEALED BY NEW CONSTRUCTION OR AS REQUIRED FOR NEW EXTENT OF CONTRUCTION FOR ALL CONTRACORS INCLUDING, BUT NOT LIMITED TO, VALVES, HANGERS, INSULATION, & FLOOR DRAINS.
7. EXISTING HVAC SYSTEMS BACK TO POINT CONCEALED BY NEW CONTRUCTION OR AS REQUIRED FOR NEW CONSTRUCTION BY ALL CONTRACTORS INCLUDING, BUT NOT LIMITED TO:
   a. ALL DUCTS, DIFFUSERS, DAMPERS, GRILLES, THERMOSTATS, INSULATION, & HANGERS.
   b. ALL HOT WATER STEAM & CONDENSATE PIPING, INSULATION, VALVES, & HANGERS.
8. EXISTING ELECTRICAL SYSTEMS BACK TO A POINT CONCEALED BY NEW CONSTRUCTION OR AS REQUIRED FOR NEW CONTRUCTION BY ALL CONTRACTORS INCLUDING, BUT NOT LIMITED TO :
   a. ALL LIGHTS, SWITCHES, RECEPACLES, PANELBOARDS, SPEAKERS, TELEPHONE DEVICES, & CLOCKS.
   b. ABANDONED CONDUIT, WIRE, JUNCTION BOXES, & HANGERS.

B. DEMOLISH ALL FEC CABINETS, BENCHES, TACKBOARDS, DISPLAY CASES, ETC.

C. THE CONTRACTOR SHALL SCHEDULE ALL INTERRUPTIONS OF UTILITIES WITH THE OWNER.

D. MAINTAIN & PROTECT EXISTING EXTERIOR WINDOW SYSTEMS (GLAZING, FRAMES, & WINDOW SILLS) & EXISTING EXTERIOR DRAIN WALL SYSTEMS (GLAZING, INSULATED SPADREL PANELS, & FRAMES).

E. THE OWNER WILL OCCUPY ADJACENT BUILDING AREAS DURING CONSTRUCTION PERIOD. CONTRACTOR TO COORDINATE ACCESS TO ANY RESTRICTED AREAS WITH THE OWNER.

F. CONTRACTOR, FOR THE PORTION OF THE WORK INDICATED ON PLAN, IS TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPANCIES BETWEEN ACTUAL CONDITIONS & THOSE INDICATED ON DRAWINGS SHOULD BE REPORTED TO THE A/E IMMEDIATELY.

G. ALL DAMAGE TO WALLS, FLOOR, & FIXTURES INCURRED BY REMOVAL OF ITEMS OR DEMOLITION WORK IS TO BE PATCHED & REFINISHED.

H. PROVIDE ALL SELECTIVE BUILDING DEMOLTION WORK REQUIRED TO COMPLETE ALL NEW WORK & REMODELING WORK WHETHER SPECIFICALLY NOTED OR NOT.

I. THE OWNER RETAINS THE RIGHT TO SALVAGE EXISTING BUILDING ITEMS INCLUDING, BUT NOT LIMITED TO:

1. PLUMBING FIXTURES
2. LOOSE FURNISHINGS
3. 200 SQUARE FEET OF CEILING PANELS

J. IMMEDIATELY PRIOR TO THE START OF DEMOLITION, THE OWNER WILL VACATE & REMOVE ALL LOOSE FURNISHINGS. THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO TABLES, DESKS, & CHAIRS, KEY LOCKS, MISC. HARDWARE. CONTRACTOR TO COORDINATE REMODELING SCHEDULE WITH THE OWNER & NOTIFY THEM OF START DATE TWO WEEKS & AT 72 HOURS IN ADVANCE.

K. COORDINATE LIMITS OF SELECTIVE DEMOLITION OF MECHANICAL/ELECTRICAL SYSTEMS WITH THE PLUMBING, HVAC, & ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS. PLUMBING, HVAC, & ELECTRICAL CONTRACTORS ARE RESPONSIBLE FOR:

1. IDENTIFYING TERMINATION POINTS OF DEMOLITION
2. TEMPORARY SHUT DOWN & CAPPING EXISTING ACTIVE PIPE, DUCTS, OR ELECTRICAL CIRCUITS.
3. RECONFIGURATION OF EXISTING SYSTEMS.
4. DISCONNECTING ABANDONED ELECTRICAL CIRCUITS.
5. HOLES IN EXISTING CONSTRUCTION REQUIRED FOR NEW CONSTRUCTIONS, U.O.N.

L. PATCH & REFINISH ALL LOCATIONS WHERE EQUIPMENT, DUCTS, CONDUITS, ETC. HAVE BEEN REMOVED. COORDINATE WITH MEP DRAWINGS.

STATE OF OHIO
THOMAS W. GATES
12169
6-26-25
REGISTERED ARCHITECT

THOMAS W. GATES
ARC.9812169
EXP. 12/31/2025

SPGB Architects
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'VD:	DATE:

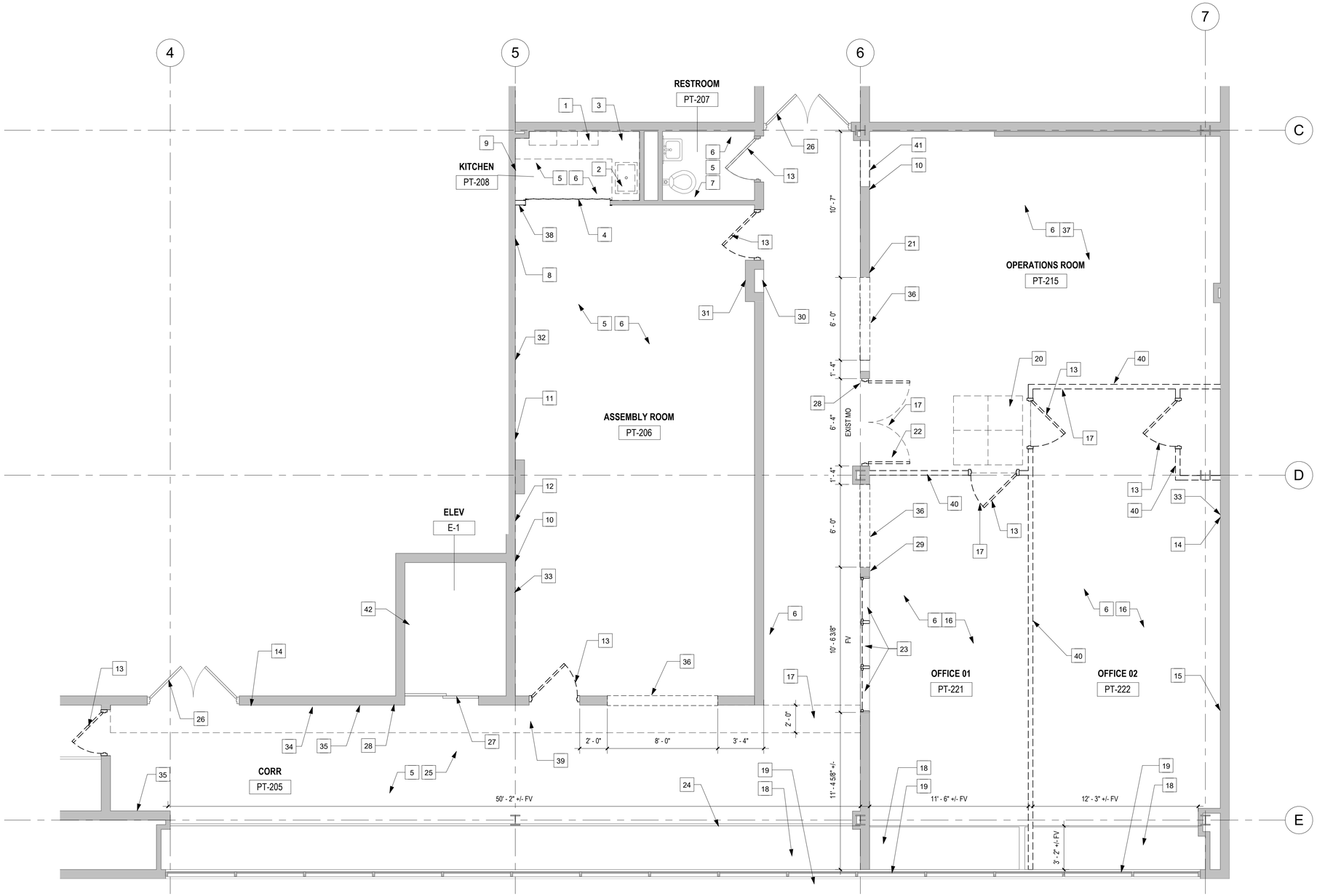
SECOND FLOOR OVERALL DEMOLITION PLAN

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.
AD-102

PROJ NO.: 130012-59
DATE: 6/25/2025

1/16" = 1'-0" | 1/8" = 1'-0" | 3/16" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"



1 SECOND FLOOR ENLARGED DEMOLITION PLAN

1/4" = 1'-0"

N

GENERAL NOTES

A. REFER TO SHEET AD-100 FOR GENERAL DEMOLITION NOTES.

B. REFER TO MEP DRAWINGS FOR DEMOLITION OF MEP ITEMS.

CODED NOTES [X]

1	REMOVE EXISTING UPPER CABINET(S)
2	REMOVE EXISTING SINK, TYP OF 2. REFER TO PLUMBING DWGS
3	REMOVE EXISTING CASEWORK & PLAM COUNTERTOP
4	REMOVE EXISTING ACCORDION DOOR, FRAME & HARDWARE
5	REMOVE FLOOR TILE & WALL BASE, TYP ENTIRE RM
6	REMOVE EXISTING CEILING TILE, GRID, AND SUSPENSION SYSTEM IN ITS ENTIRETY. REFER TO MEP DWGS FOR ADDITIONAL INFORMATION
7	REMOVE EXIST RESTROOM FIXTURES, TYP ENTIRE ROOM. ITEMS INCLUDE, BUT ARE NOT LIMITED TO, WATER CLOSET, LAVATORY, MIRROR (SALVAGE TO REINSTALL) & HANDSOAP (SALVAGE TO REINSTALL), ETC. REFER TO MEP DRAWINGS. MAINTAIN RECESSED TRASH RECEPTACLE WHERE APPLICABLE
8	REMOVE EXISTING WALL MOUNTED PENCIL SHARPENER
9	REMOVE EXIST SHELF
10	REMOVE EXIST WALL MOUNTED TELEPHONE
11	REMOVE EXISTING SIGN & SALVAGE TO REINSTALL.
12	MAINTAIN EXISTING EXPOSED CONDUIT, TYP ENTIRE ROOM UON REFER TO MEP DWGS
13	REMOVE EXIST DOOR(S), FRAME & HARDWARE.
14	MAINTAIN EXIST ELECTRICAL PANEL, REFER TO MEP DWGS
15	REMOVE EXISTING WALL MOUNTED MARKERBOARD
16	REMOVE EXIST CARPET TILE & WALL BASE, TYP ENTIRE RM
17	EXIST EXIT SIGN, REFER TO MEP DWGS
18	EXIST WINDOW SILL. APPROX SIZE AS DIMENSIONED ON DWG, CONTRACTOR TO FIELD VERIFY. MAINTAIN EXIST PARTIAL HEIGHT GYP BD PARTITION BELOW. REMOVE EXIST WOOD TOP SURFACE & REPLACE WITH SS-1.
19	REPLACE EXIST EXTERIOR RIBBON WINDOW, TYP ENTIRE LENGTH OF WALL.
20	REMOVE EXIST FLOOR ACCESS PANELS, TYP OF 3 ROOMS. REFER TO STRUCTURAL DWGS FOR ADDITIONAL INFORMATION.
21	EXIST THERMOSTAT TO BE REMOVED, REFER TO MEP DWGS
22	REMOVE EXIST FG DOUBLE DOOR, FRAME & ASSOCIATED DOOR HARDWARE
23	REMOVE EXIST HM INTERIOR WINDOW. APPROX SIZE & LOCATION AS DIMENSIONED ON DWG, CONTRACTOR TO FIELD VERIFY
24	MAINTAIN EXIST X BRACING BETWEEN COLUMN(S)
25	EXISTING EXPOSED CEILING TO REMAIN
26	MAINTAIN EXIST DOOR(S), FRAME & HARDWARE
27	MAINTAIN EXIST ELEVATOR SHAFT, DOOR, FRAME & HARDWARE
28	REMOVE EXIST SIGNAGE
29	RELOCATE EXIST WALL MOUNTED FIRE ALARM, REFER TO ELEC DWGS
30	REMOVE EXIST DRINKING FOUNTAIN. REFER TO MEP DRAWINGS.
31	REMOVE EXIST FIRE EXTINGUISHER.
32	REMOVE EXIST LIGHT FIXTURE, REFER TO MEP DWGS
33	REMOVE EXIST WALL MOUNTED SPEAKER. REFER TO MEP DRAWINGS.
34	MAINTAIN EXISTING GAS AND SAFETY MONITORING CONTROL PANEL
35	EXIST FIRE EXTINGUISHER CABINET TO REMAIN
36	REMOVE PORTION OF EXIST CMU PARTITION FOR BORROW LITE OPENING
37	REMOVE EXIST RAISED FLOOR & WALL BASE
38	REMOVE EXIST GYP PARTITION @ JAMB & HEAD ABOVE ACCORDIAN DOOR.
39	REMOVE EXIST SOFFIT IN ITS ENTIRETY. ROOF STRUCTURE TO REMAIN
40	REMOVE EXIST MTL STUD PARTITION, TYP SHOWN DASHED
41	REMOVE PORTION OF EXISTING CMU PARTITION FOR NEW DOOR AS INDICATED BY DASHED LINE
42	REMOVE EXISTING CEILING & LIGHTING. WORK TO BE COMPLETED BY

STATE OF OHIO
THOMAS W. GATES
12169
6-26-25
REGISTERED ARCHITECT

THOMAS W. GATES

ARC.9812169

EXP. 12/31/2025

SPGB Architects
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'VD:	DATE:

SECOND FLOOR ENLARGED DEMOLITION PLANS

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.

AD-103

PROJ NO.: 130012-59

DATE: 6/25/2025

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



1 PLUMBING FIRST FLOOR DWV DEMOLITION PLAN

1/8" = 1'-0"

N

DEMOLITION PLAN NOTES:

1. REMOVE EXISTING WALL HUNG WATER CLOSET, CARRIER AND ALL ACCESSORIES COMPLETE BACK TO LIMIT OF DEMOLITION. PREPARE REMAINING PIPING FOR NEW WORK CONNECTION.
2. REMOVE EXISTING COUNTERTOP LAVATORY AND ALL ACCESSORIES COMPLETE BACK TO LIMIT OF DEMOLITION. PREPARE REMAINING PIPING FOR NEW WORK CONNECTION.
3. REMOVE EXISTING 54 INCH ROUND WASHFOUNTAIN AND ALL ACCESSORIES COMPLETE. HARD CAP SANITARY DRAIN PIPING WITH AIR AND WATER TIGHT JOINT 2 INCHES BELOW FINISHED FLOOR. SEE STRUCTURAL DRAWINGS FOR PATCHING OF THE FLOOR.
4. REMOVE EXISTING MOP SINK BASIN AND ALL ACCESSORIES COMPLETE. HARD CAP SANITARY DRAIN PIPING WITH AIR AND WATER TIGHT JOINT 2 INCHES BELOW SLAB. SEE STRUCTURAL DRAWINGS FOR PATCHING OF THE FLOOR.
5. REMOVE EXISTING FLOOR DRAIN AND ACCESSORIES COMPLETE. HARD CAP SANITARY DRAIN PIPING WITH AIR AND WATER TIGHT JOINT 2 INCHES BELOW SLAB. SEE STRUCTURAL DRAWINGS FOR PATCHING OF THE FLOOR.
6. REMOVE EXISTING WALL HUNG LAVATORY AND ALL ACCESSORIES COMPLETE. REMOVE SANITARY DRAIN PIPING BACK TO STACK IN CHASE AND HARD CAP WITH AIR AND WATER TIGHT JOINT.
7. REMOVE EXISTING LAB SINK AND ALL ACCESSORIES COMPLETE. REMOVE SANITARY DRAIN PIPING TO 2 INCHES BELOW FINISHED FLOOR AND HARD CAP. REMOVE SANITARY VENT PIPING BACK TO MAIN ABOVE CEILING AND HARD CAP. SEE STRUCTURAL DRAWINGS FOR PATCHING OF THE FLOOR.
8. REMOVE EXISTING SANITARY DRAIN PIPING AND VENT PIPING IN CHASE COMPLETE BACK TO VERTICAL STACK AND CAP WITH AIR AND WATER TIGHT JOINT.
9. REMOVE EXISTING SHOWER DRAIN AND ACCESSORIES COMPLETE. HARD CAP SANITARY DRAIN PIPING WITH AIR AND WATER TIGHT JOINT 2 INCHES BELOW SLAB. SEE STRUCTURAL DRAWINGS FOR PATCHING OF THE FLOOR.
10. REMOVE 1-1/2 INCH VERTICAL DRAIN PIPING IN WALL SERVING SECOND FLOOR EWC. HARD CAP SANITARY DRAIN PIPING WITH AIR AND WATER TIGHT JOINT 2 INCHES BELOW FINISHED FLOOR. PREPARE DRAIN PIPING IN CEILING SPACE FOR NEW WORK CONNECTION.
11. REMOVE 4 INCH SANITARY DRAIN PIPING BACK TO LIMIT OF DEMOLITION AND PREPARE FOR NEW WORK CONNECTION. HARD CAP 4 INCH SANITARY DRAIN PIPING 2 INCHES BELOW FINISHED FLOOR WITH AIR AND WATER TIGHT JOINT. SEE STRUCTURAL DRAWINGS FOR PATCHING OF THE FLOOR.
12. REMOVE 2 INCH SANITARY VENT PIPING BACK TO LIMIT OF DEMOLITION. HARD CAP 2 INCH VENT PIPING WITH AIR AND WATER TIGHT JOINT 2 INCHES BELOW FINISHED FLOOR. SEE STRUCTURAL DRAWINGS FOR PATCHING OF THE FLOOR.
13. REMOVE EXISTING 2 INCH SANITARY DRAIN PIPING SERVING FUME HOOD CUP SINK COMPLETE BACK TO VERTICAL STACK IN WALL. HARD CAP WITH AIR AND WATER TIGHT JOINT.
14. REMOVE EXISTING 2 COMPARTMENT BREAKROOM SINK AND ALL ACCESSORIES COMPLETE. REMOVE SANITARY DRAIN PIPING TO 2 INCHES BELOW FINISHED FLOOR AND HARD CAP. PATCH FLOOR TO MATCH EXISTING. REMOVE SANITARY VENT PIPING BACK TO MAIN ABOVE CEILING AND HARD CAP.
15. EXISTING FLOOR CLEANOUT TO REMAIN.
16. EXISTING FLOOR DRAIN TO REMAIN.
17. REMOVE EXISTING EWC AND ALL ACCESSORIES COMPLETE. REMOVE SANITARY DRAIN PIPING BACK TO STACK IN CHASE AND HARD CAP WITH AIR AND WATER TIGHT JOINT.
18. REMOVE EXISTING URINAL, CARRIER, AND ALL ACCESSORIES COMPLETE.
19. REMOVE EXISTING WAREWASHER AND ALL ACCESSORIES COMPLETE.
20. REMOVE EXISTING EWC AND ALL ACCESSORIES COMPLETE. CAP SANITARY AND VENT PIPING AT WALL PENETRATION.
21. REMOVE EXISTING FLOOR CLEANOUT AND ACCESSORIES COMPLETE. HARD CAP SANITARY DRAIN PIPING WITH AIR AND WATER TIGHT JOINT 2 INCHES BELOW SLAB. SEE STRUCTURAL DRAWINGS FOR PATCHING OF THE FLOOR.
22. REMOVE EXISTING 2 INCH SANITARY DRAIN PIPING WITHIN CHASE SPACE COMPLETE. HARD CAP SANITARY DRAIN PIPING 2 INCHES BELOW FINISHED FLOOR WITH AIR AND WATER TIGHT JOINT. SEE STRUCTURAL DRAWINGS FOR PATCHING OF THE FLOOR.
23. REMOVE EXISTING 2 INCH VENT PIPING WITHIN CHASE COMPLETE BACK TO ABOVE CEILING. HARD CAP WITH AIR AND WATER TIGHT JOINT.
24. REMOVE EXISTING 4 INCH STANDPIPE SERVING WASHING MACHINE COMPLETE TO 2 INCHES BELOW FINISHED FLOOR. HARD CAP WITH AIR AND WATER TIGHT JOINT. SEE STRUCTURAL DRAWINGS FOR PATCHING OF THE FLOOR.
25. REMOVE EXISTING 2 INCH VENT PIPING SERVING STANDPIPE COMPLETE BACK TO LIMIT OF DEMOLITION IN CEILING SPACE. HARD CAP WITH AIR AND WATER TIGHT JOINT.
26. REMOVE EXISTING 2 INCH BRANCH VENT PIPING SERVING DEMOLISHED MOP SINK COMPLETE BACK TO MAIN IN THE CEILING SPACE AND 2 INCHES BELOW FINISHED FLOOR. HARD CAP WITH AIR AND WATER TIGHT JOINT. SEE STRUCTURAL DRAWINGS FOR PATCHING OF THE FLOOR.
27. PRIOR TO REMOVAL, CONTRACTOR SHALL CONFIRM THAT THE EXISTING VENT PIPING IS ABANDONED. REMOVE 2 INCH VENT PIPING AND ALL ACCESSORIES COMPLETE BACK TO 2 INCHES BELOW FINISHED FLOOR. HARD CAP WITH AIR AND WATER TIGHT JOINT. SEE STRUCTURAL DRAWINGS FOR PATCHING OF THE FLOOR.

STATE OF OHIO
DREW A ROBINSON
PE-89438
REGISTERED PROFESSIONAL ENGINEER

tec inc. engineering & management
#916 Brandon Ave, STE 240
Dublin, OH 43017
t 614.267.5577
f 614.267.5617
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'VD:	DATE:

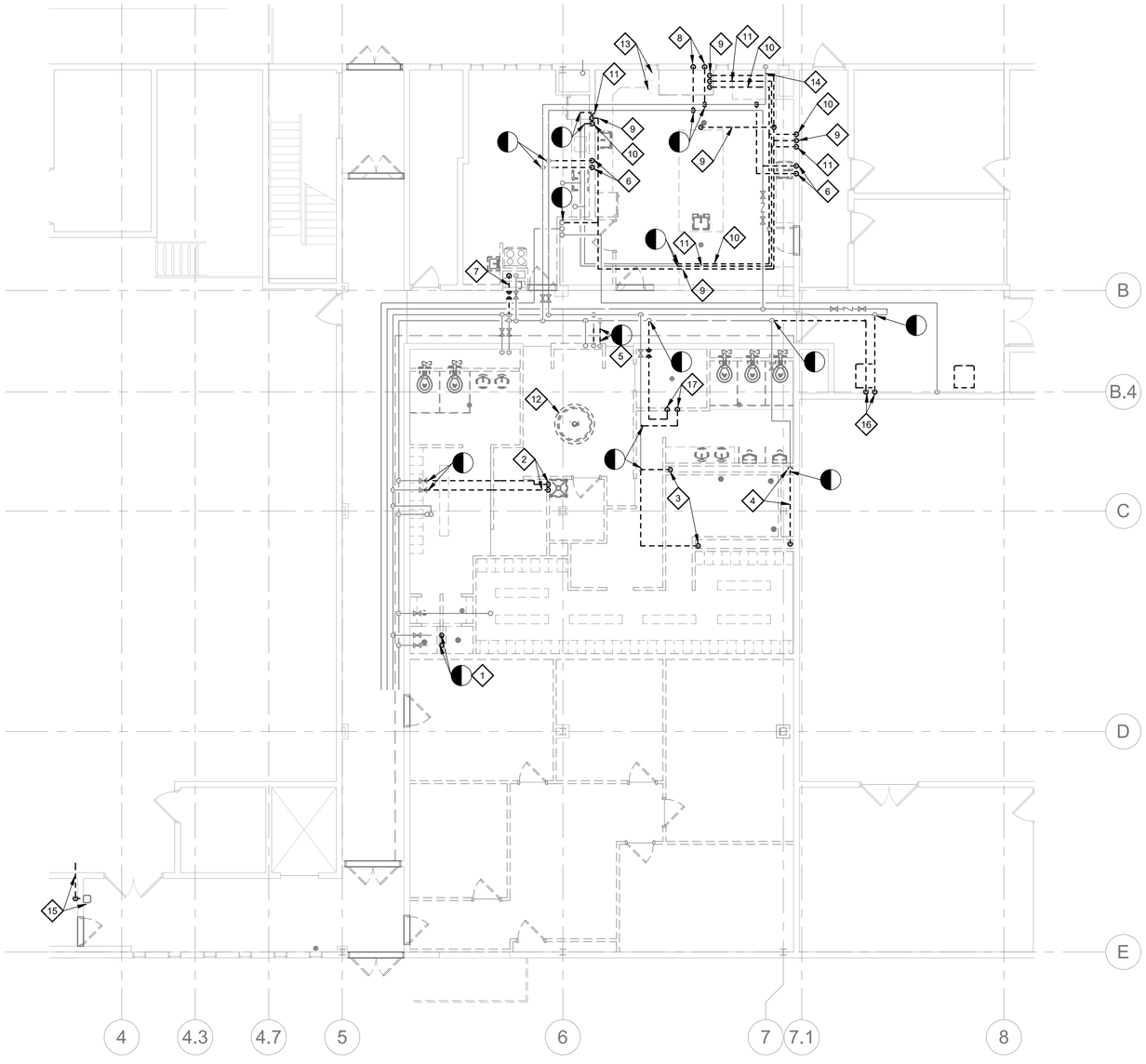
PLUMBING FIRST FLOOR DWV DEMOLITION PLAN

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.
PD-100

PROJ NO.: 130012-59
DATE: 06/25/2025

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



1 PLUMBING FIRST FLOOR DOMESTIC DEMOLITION PLAN

1/8" = 1'-0"

N

◇ DEMOLITION PLAN NOTES:

1. REMOVE EXISTING 3/4 INCH DCW AND DHW PIPING SERVING SHOWER VALVES BACK TO LIMITS OF DEMOLITION ABOVE CEILING. PREPARE PIPING FOR NEW WORK CONNECTION.
2. REMOVE EXISTING 3/4 INCH DCW AND DHW PIPING AND ALL ACCESSORIES SERVING MOP SINK COMPLETE BACK TO LIMIT OF DEMOLITION ABOVE CEILING. HARD CAP WITH AIR AND WATER TIGHT JOINT.
3. REMOVE EXISTING DHW PIPING BACK TO LIMIT OF DEMOLITION ABOVE CEILING. PREPARE PIPING FOR NEW WORK CONNECTION.
4. REMOVE EXISTING 1-1/2 INCH VERTICAL AND 3/4 INCH HORIZONTAL DCW PIPING BACK TO LIMIT OF DEMOLITION ABOVE CEILING. PREPARE PIPING FOR NEW WORK CONNECTIONS.
5. REMOVE PORTION OF DCW AND DHW PIPING BACK TO LIMITS OF DEMOLITION. HARD CAP PIPING AT MAIN AND AT CORRIDOR WALL WITH AIR AND WATER TIGHT JOINT.
6. REMOVE EXISTING DCW AND DHW PIPING SERVING EXISTING SINK BACK TO THE MAIN IN THE CEILING SPACE AND HARD CAP WITH AIR AND WATER TIGHT JOINT.
7. REMOVE EXISTING DHW PIPING BACK TO THE MAIN IN CORRIDOR AND HARD CAP WITH AIR AND WATER TIGHT JOINT.
8. REMOVE DCW AND DHW PIPING COMPLETE BACK TO LIMIT OF DEMOLITION AND HARD CAP WITH AIR AND WATER TIGHT JOINT.
9. REMOVE NATURAL GAS PIPING IN LAB AREA COMPLETE BACK TO LIMIT OF DEMOLITION. CLOSE BALL VALVE IN SECOND FLOOR MECHANICAL ROOM AND HARD CAP WITH AIR AND WATER TIGHT JOINT IN FIRST FLOOR CEILING SPACE.
10. REMOVE EXISTING COMPRESSED AIR PIPING IN LAB AREA COMPLETE BACK TO LIMITS OF DEMOLITION. HARD CAP ENDS OF REMAINING PIPING WITH AIR AND WATER TIGHT JOINTS.
11. REMOVE EXISTING LAB VACUUM PIPING IN LAB AREA COMPLETE BACK TO LIMITS OF DEMOLITION. HARD CAP ENDS OF REMAINING PIPING WITH AIR AND WATER TIGHT JOINT.
12. REMOVE EXISTING 1/2 INCH DCW AND DHW PIPING SERVING WASH FOUNTAIN BACK TO 2" BELOW FINISHED FLOOR AND CAP WITH AIR AND WATER TIGHT JOINT. SEE STRUCTURAL DRAWINGS FOR PATCHING OF THE FLOOR.
13. REMOVE AND RELOCATE EXISTING DI WATER SYSTEM. SEE SHEET P-202 FOR NEW DI WATER SYSTEM LOCATION.
14. REMOVE EXISTING VACUUM BREAKER SERVING OUTDOOR HYDRANT. PREPARE PIPING FOR NEW WORK INSTALLATION.
15. REMOVE EXISTING EWC AND ALL ACCESSORIES COMPLETE. REMOVE 1/2 INCH DOMESTIC COLD WATER PIPING COMPLETE BACK TO MAIN IN PERMANGENATE ROOM AND HARD CAP WITH AIR AND WATER TIGHT JOINT. PATCH REMAINING WALL OPENINGS TO MATCH EXISTING.
16. REMOVE EXISTING 1/2 INCH DCW AND DHW PIPING AND ALL ACCESSORIES SERVING WASHING MACHINE COMPLETE BACK TO LIMIT OF DEMOLITION IN CEILING SPACE. HARD CAP WITH AIR AND WATER TIGHT JOINT.
17. REMOVE EXISTING 3/4 INCH DCW AND DHW PIPING BACK TO LIMIT OF DEMOLITION. HARD CAP WITH AIR AND WATER TIGHT JOINT.

STATE OF OHIO
DREW A ROBINSON
PE-89438
REGISTERED PROFESSIONAL ENGINEER

tec inc. engineers & consultants
4976 Bradenton Ave, STE 240
Dublin, OH 43017
t 614.336.4979
f 614.267.5617
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE:	DESCRIPTION	APP'VD:	DATE:

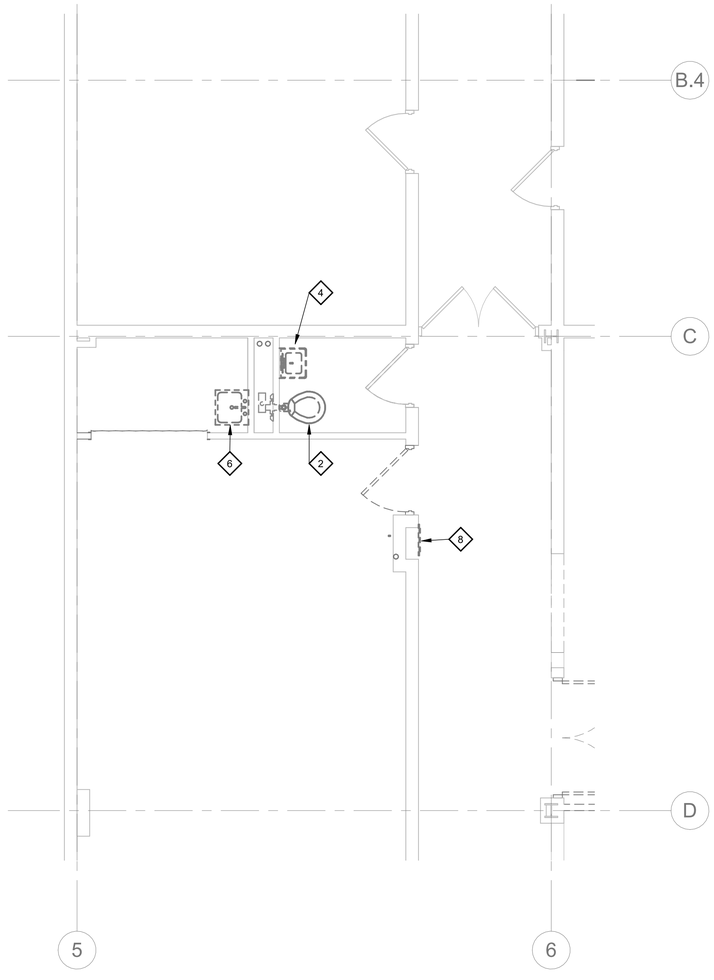
PLUMBING FIRST FLOOR DOMESTIC DEMOLITION PLAN

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.
PD-101

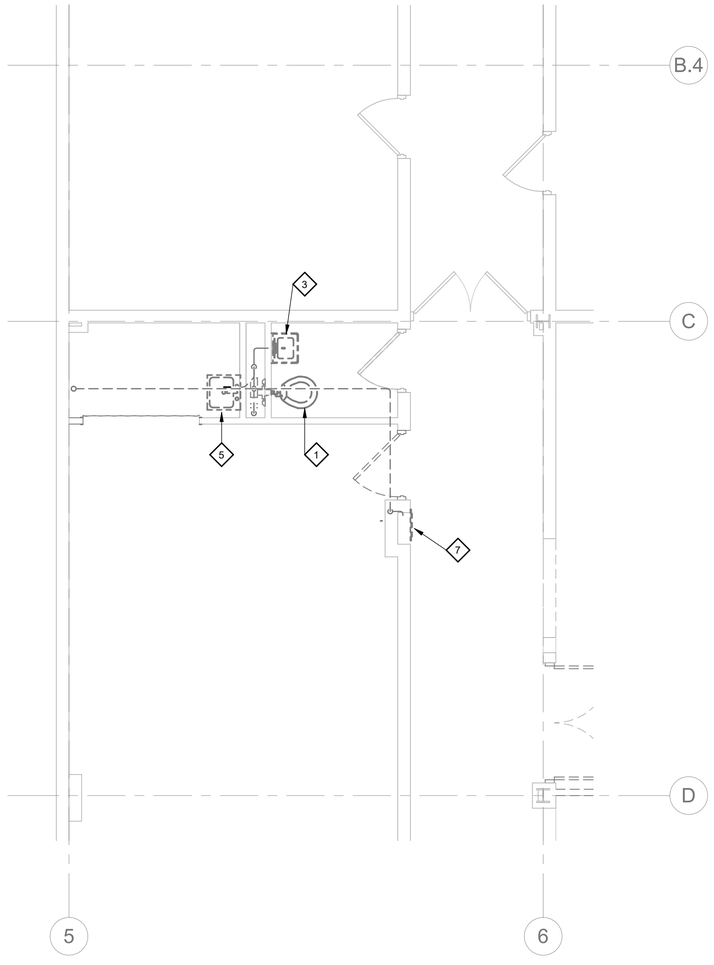
PROJ NO.: 130012-59
DATE: 06/25/2025

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



1 PLUMBING SECOND FLOOR DOMESTIC DEMOLITION PLAN

1/4" = 1'-0"



2 PLUMBING SECOND FLOOR DWV DEMOLITION PLAN

1/4" = 1'-0"

◇ DEMOLITION PLAN NOTES:

1. REMOVE EXISTING WATER CLOSET COMPLETE. MAINTAIN WATER CLOSET CARRIER FOR NEW WORK CONNECTION.
2. REMOVE EXISTING WATER CLOSET FLUSH VALVE BACK TO WALL STUBOUT COMPLETE. MAINTAIN EXISTING 1-1/2 INCH DCW PIPING FOR NEW WORK CONNECTION.
3. REMOVE EXISTING LAVATORY AND DRAIN PIPING COMPLETE BACK TO STUBOUT. MAINTAIN CARRIER AND PREPARE FOR NEW WORK CONNECTION.
4. REMOVE EXISTING LAVATORY FAUCET AND DOMESTIC WATER PIPING BACK TO STUBOUTS. PREPARE DOMESTIC WATER PIPING STUBOUT FOR NEW WORK CONNECTION.
5. REMOVE EXISTING SINGLE BOWL DROP-IN SINK AND ALL ACCESSORIES COMPLETE BACK TO WALL. PREPARE FOR NEW WORK CONNECTION.
6. REMOVE EXISTING SINGLE BOWL DROP-IN SINK FAUCET AND DOMESTIC WATER PIPING COMPLETE BACK TO WALL. PREPARE DOMESTIC WATER PIPING STUBOUT FOR NEW WORK CONNECTION.
7. REMOVE EXISTING RECESSED ELECTRIC WATER COOLER AND ALL ACCESSORIES COMPLETE. MAINTAIN SANITARY DRAIN PIPING FOR NEW WORK CONNECTION.
8. REMOVE EXISTING RECESSED ELECTRIC WATER COOLER AND ALL ACCESSORIES COMPLETE. MAINTAIN DOMESTIC WATER PIPING FOR NEW WORK CONNECTION.

STATE OF OHIO
DREW A ROBINSON
PE-89438
REGISTERED PROFESSIONAL ENGINEER

4965 Bradenton Ave, STE 240
Dublin, OH 43017
t 614.336.4673
f 614.267.5617
www.tecinceng.com
engineering & surveying
cleveland | columbus | pittsburgh
tec inc.

DESIGNED BY: TEC INC. ENGINEERS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP/D:	DATE:

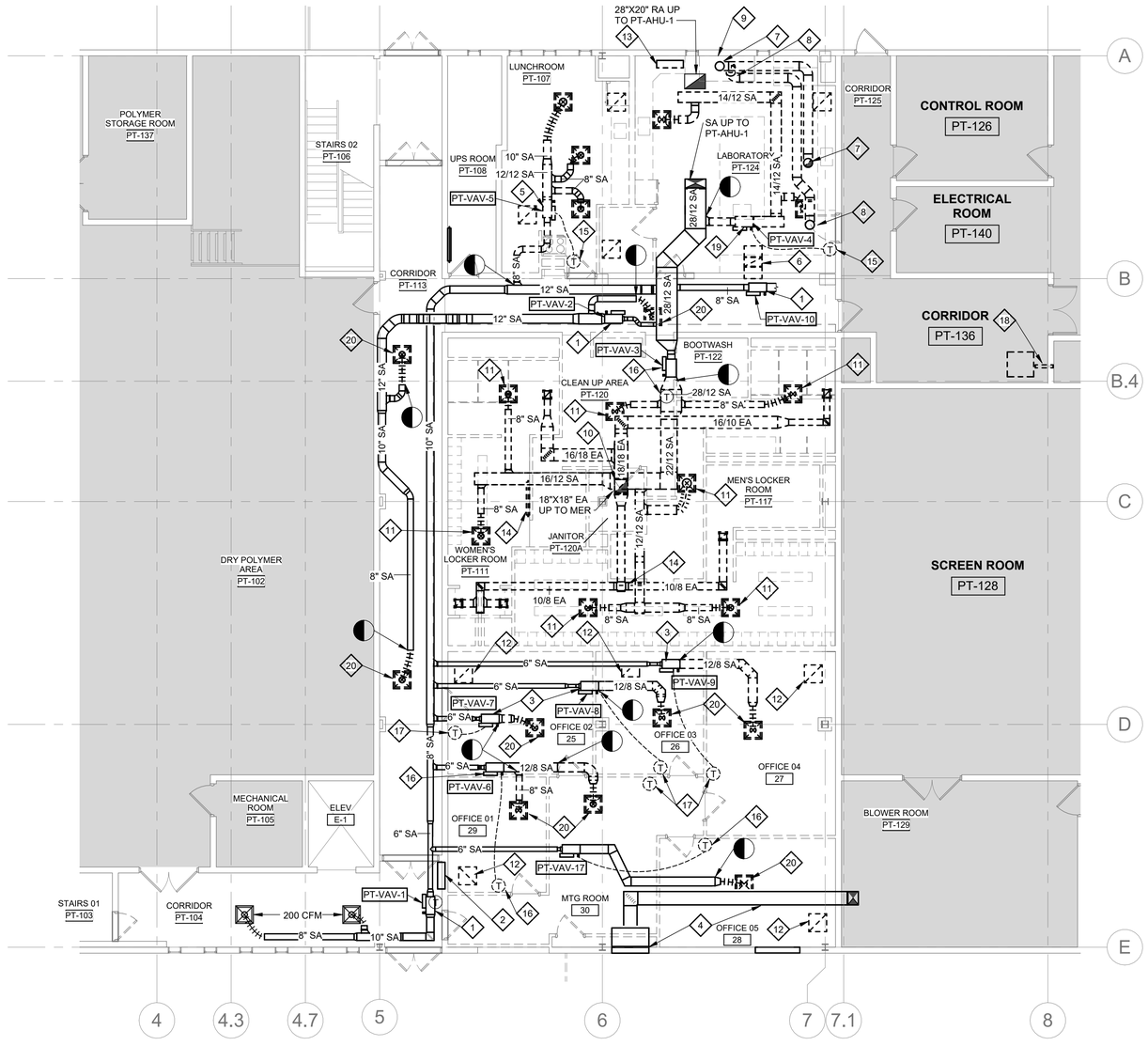
PLUMBING SECOND FLOOR DEMOLITION PLANS

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.
PD-102

PROJ NO.: 130012-59
DATE: 06/25/2025

1/16" = 1'-0" | 1/8" = 1'-0" | 3/16" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"



1 HVAC FIRST FLOOR DEMOLITION PLAN

1/8" = 1'-0"

N

GENERAL NOTES

A. NO WORK IN SHADED AREA'S UNLESS NOTED OTHERWISE.

◇ PLAN NOTES

1. EXISTING VAV BOX WITH HOT WATER REHEAT COIL AND ALL ASSOCIATED EQUIPMENT AND CONTROLS TO REMAIN. MAINTAIN EXISTING THERMOSTAT AND LOCATION.
2. EXISTING RECESSED HOT WATER CABINET UNIT HEATER AND ALL ASSOCIATED CONTROLS TO REMAIN.
3. EXISTING VAV BOX WITH HOT WATER REHEAT COIL TO REMAIN. REMOVE ALL DOWNSTREAM SUPPLY DUCTWORK FROM VAV BOX AND PERMANENTLY CAP AFTER HOT WATER COIL. THE VAV BOX IS TO BE ABANDONED IN PLACE. COIL ALL CONTROL WIRING INSIDE UNIT CONTROL BOX.
4. MAINTAIN EXISTING OUTSIDE AIR DUCTWORK AND ASSOCIATED LOUVER.
5. REMOVE VAV BOX WITH HOT WATER REHEAT COIL AND ALL ASSOCIATED EQUIPMENT AND CONTROLS COMPLETE. TURN OVER VAV BOX AND CONTROLS TO OWNER. REMOVE ALL ASSOCIATED DUCTWORK DOWNSTREAM AND UPSTREAM OF VAV BOX AND PERMANENTLY CAP DUCT AT MAIN. REMOVE ALL ASSOCIATED DIFFUSERS AND CONTROLS COMPLETE.
6. REMOVE EXISTING "Z" TRANSFER DUCT IN CORRIDOR WALL COMPLETE. PATCH WALL AFTER REMOVAL OF DUCTWORK.
7. REMOVE EXISTING 12" DIA. FUME HOOD EXHAUST DUCTWORK AND ALL ASSOCIATED EQUIPMENT COMPLETE UP THROUGH MECHANICAL ROOM FLOOR. MAINTAIN EXISTING FLOOR OPENING AFTER REMOVAL OF DUCTWORK FOR NEW FUME HOOD EXHAUST DUCTWORK. REFER TO SHEET MD-102 FOR CONTINUATION OF DUCTWORK.
8. REMOVE 12" DIA. FUME HOOD AUXILIARY AIR DUCTWORK AND ALL ASSOCIATED EQUIPMENT COMPLETE UP THROUGH MECHANICAL ROOM FLOOR. PATCH FLOOR AFTER REMOVAL OF DUCTWORK. REFER TO SHEET MD-102 FOR CONTINUATION OF DUCTWORK.
9. REMOVE EXISTING FUME HOOD AND ALL EQUIPMENT AND CONTROLS COMPLETE. REFER TO ARCHITECTURAL PLANS FOR MORE INFORMATION ON REMOVAL OF FUME HOOD.
10. REMOVE ALL EXHAUST DUCTWORK AND ASSOCIATED GRILLES AND EQUIPMENT COMPLETE IN LOCKER ROOMS. MAINTAIN EXISTING 18"X18" FLOOR PENETRATION UP TO EXHAUST FAN PT-EF-4 LOCATED IN MECHANICAL ROOM ABOVE. SEE SHEET MD-102 FOR CONTINUATION OF DUCTWORK.
11. REMOVE SUPPLY DIFFUSER AND ALL ASSOCIATED EQUIPMENT AND DUCTWORK COMPLETE BACK TO LIMIT OF DEMOLITION SHOWN AND TEMPORARILY CAP DUCT. PREPARE DUCT FOR NEW CONNECTION POINT.
12. REMOVE RETURN GRILLE IN CEILING COMPLETE. CLEAN GRILLE AND PRESERVE FOR REUSE IN NEW WORK PLAN.
13. REMOVE ELECTRIC UNIT HEATER AND ALL ASSOCIATED EQUIPMENT AND CONTROLS COMPLETE.
14. REMOVE EXISTING HOT WATER RADIATOR LOCATED ON WALL COMPLETE. REMOVE ALL ASSOCIATED HOT WATER SUPPLY AND RETURN PIPING, VALVES AND CONTROLS COMPLETE AND PERMANENTLY CAP PIPING AT MAIN.
15. REMOVE EXISTING THERMOSTAT ON WALL COMPLETE.
16. EXISTING VAV BOX WITH HOT WATER REHEAT TO REMAIN. REMOVE AND RELOCATE EXISTING THERMOSTAT SERVING ASSOCIATED VAV BOX AND MAINTAIN CONTROL WIRE. EXTEND CONTROL WIRING TO NEW LOCATION SHOWN IN NEW WORK PLAN.
17. REMOVE AND PRESERVE EXISTING THERMOSTAT FROM ASSOCIATED VAV BOX. PLACE THERMOSTAT AND COIL CONTROL WIRE INSIDE VAV CONTROL BOX AT UNIT. DISCONNECT CONTROLS FOR UNIT.
18. REMOVE EXISTING 4" DIA. DRYER VENT COMPLETE FROM EXISTING DRYER. PATCH WALL AFTER REMOVAL OF VENT.
19. REMOVE AND PRESERVE VAV BOX VAV-PT-4, AND ALL ASSOCIATED EQUIPMENT AND CONTROLS FOR RELOCATION SHOWN IN NEW WORK PLAN. REMOVE ALL ASSOCIATED DUCTWORK DOWNSTREAM AND UPSTREAM OF VAV BOX AND ALL ASSOCIATED DIFFUSERS COMPLETE. PERMANENTLY CAP DUCT AT MAIN.
20. REMOVE AND PRESERVE EXISTING DIFFUSER. SEE NEW WORK PLANS FOR REINSTALLATION LOCATIONS. WIPE CLEAN AFTER REINSTALLATION.

STATE OF OHIO
DREW A ROBINSON
PE-89436
REGISTERED PROFESSIONAL ENGINEER

tec inc. engineering & architecture
#976 Brodonton Ave, STE 240
Dublin, OH 43017
t 614.267.5577
f 614.267.5617
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD			
No.	DATE	DESCRIPTION	APP'VD. DATE:

HVAC FIRST FLOOR DEMOLITION PLAN

Eastern Regional Water Reclamation Facility Operations Building Renovation

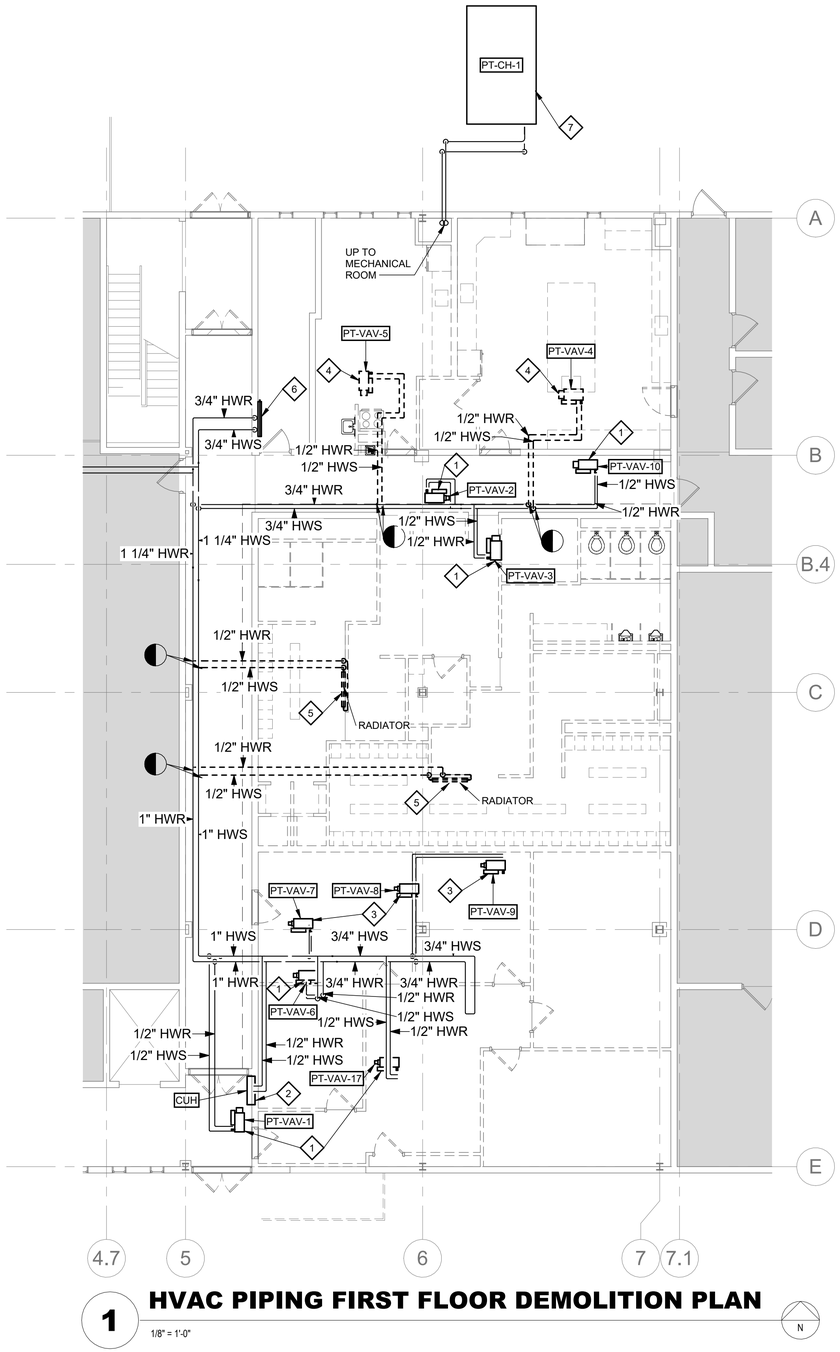
SHEET NO.

MD-100

PROJ NO.: 130012-59

DATE: 06/25/2025

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



1 HVAC PIPING FIRST FLOOR DEMOLITION PLAN

1/8" = 1'-0"

N

GENERAL NOTES

A. NO WORK IN SHADED AREA'S UNLESS NOTED OTHERWISE.

◇ PLAN NOTES

1. EXISTING VAV BOX WITH HOT WATER REHEAT COIL AND ALL ASSOCIATED EQUIPMENT AND CONTROLS TO REMAIN.
2. EXISTING RECESSED HOT WATER CABINET UNIT HEATER AND ALL ASSOCIATED CONTROLS TO REMAIN.
3. EXISTING VAV BOX WITH HOT WATER REHEAT COIL TO REMAIN. MAINTAIN EXISTING HOT WATER SUPPLY AND RETURN PIPING AND ASSOCIATED VALVES AND EQUIPMENT. CLOSE SUPPLY AND RETURN VALVES AND DRAIN COIL. THE VAV BOX IS TO BE ABANDONED IN PLACE.
4. REMOVE ALL ASSOCIATED PIPING AND VALVES SERVING REMOVED AND PRESERVED VAV BOX AND REHEAT COIL COMPLETE. PERMANENTLY CAP PIPING AT MAIN.
5. REMOVE EXISTING HOT WATER RADIATOR LOCATED ON WALL COMPLETE. REMOVE ALL ASSOCIATED HOT WATER SUPPLY AND RETURN PIPING, VALVES AND CONTROLS COMPLETE AND PERMANENTLY CAP PIPING AT MAIN.
6. EXISTING RADIATOR TO REMAIN.
7. EXISTING AIR COOLED CHILLER AND ALL ASSOCIATED PIPING, EQUIPMENT, AND CONTROLS TO REMAIN.

STATE OF OHIO
DREW A. ROBINSON
PE-89438
REGISTERED PROFESSIONAL ENGINEER

tec inc. engineers & architects
4976 Bradenton Ave, STE 240
Dublin, OH 43017
t 614.267.4777
f 614.267.5617
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'D.	DATE

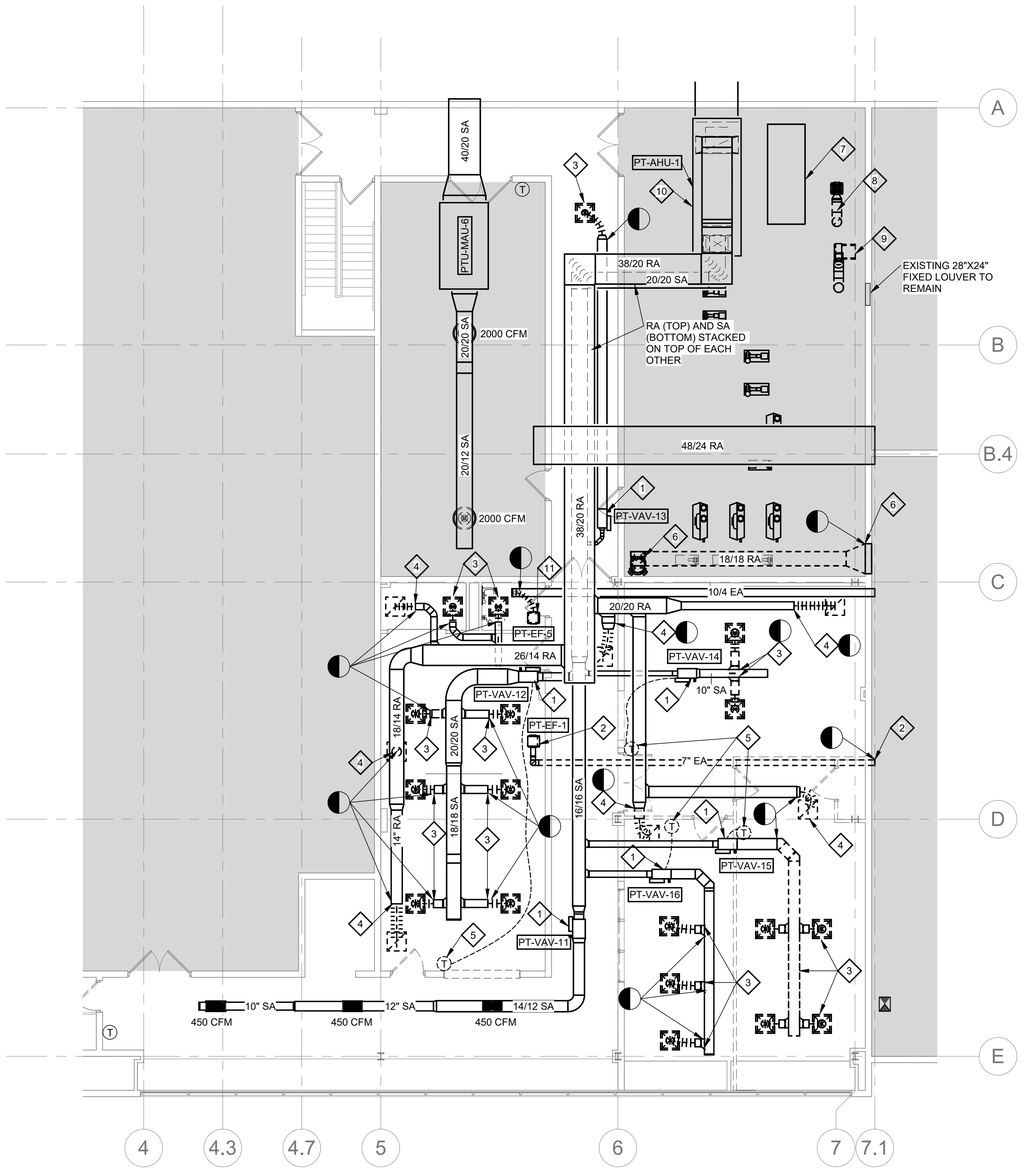
HVAC FIRST FLOOR PIPING DEMOLITION PLAN

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.
MD-101

PROJ NO.: 130012-59
DATE: 06/25/2025

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



1 HVAC SECOND FLOOR DEMOLITION PLAN

1/8" = 1'-0"

N

◇ PLAN NOTES

1. EXISTING VAV BOX WITH HOT WATER REHEAT COIL AND ALL ASSOCIATED EQUIPMENT, PIPING, AND VALVES TO REMAIN.
2. REMOVE EXHAUST FAN PT-EF-1 AND ALL ASSOCIATED CONTROLS AND EQUIPMENT COMPLETE. REMOVE EXHAUST DUCTWORK BACK TO EXTERIOR WALL. PROVIDE BLANK OFF PLATE AT INSIDE FACE OF LOUVER, INSULATE THE VOID WITH WEATHER PROOF FOAM BOARD AND PERMANENTLY CAP DUCTWORK AT LOUVER.
3. REMOVE SUPPLY DIFFUSER AND ALL ASSOCIATED EQUIPMENT AND BRANCH DUCTWORK BACK TO LIMIT OF DEMOLITION SHOWN AND TEMPORARILY CAP. PREPARE DUCT FOR NEW CONNECTION POINT. PRESERVE EXISTING DIFFUSER. SEE NEW WORK PLANS FOR REINSTALLATION LOCATIONS. WIPE CLEAN AFTER REINSTALLATION.
4. REMOVE RETURN GRILLE AND ALL ASSOCIATED EQUIPMENT AND DUCTWORK BACK TO LIMIT OF DEMOLITION SHOWN AND TEMPORARILY CAP. PREPARE DUCT FOR NEW CONNECTION. CLEAN GRILLE AND PRESERVE FOR REUSE IN NEW WORK PLAN.
5. REMOVE AND RELOCATE EXISTING THERMOSTAT SERVING VAV BOX AND MAINTAIN CONTROL WIRE. EXTEND CONTROL WIRING TO NEW LOCATION SHOWN IN NEW WORK PLAN.
6. REMOVE IN-LINE EXHAUST FAN PT-EF-4 SERVING LOCKER ROOMS BELOW AND ALL ASSOCIATED EQUIPMENT, DUCTWORK AND CONTROLS COMPLETE. REMOVE EXHAUST DUCTWORK BACK TO EXTERIOR LOUVER. PROVIDE BLANK OFF PLATE AT INSIDE FACE OF LOUVER, INSULATE THE VOID WITH WEATHER PROOF FOAM BOARD AND PERMANENTLY CAP AT INSIDE EXTERIOR WALL. MAINTAIN EXISTING OPENING IN FLOOR FOR NEW WORK.
7. PREPARE EXISTING CONCRETE PAD FOR EXTENSION FOR NEW ERV UNIT. GRIND DOWN EXISTING METAL REBAR STICKING UP FROM PAD. SEE STRUCTURAL PLANS FOR MORE INFORMATION ON NEW CONCRETE PAD.
8. REMOVE EXISTING FUME HOOD EXHAUST FAN HANGING FROM CEILING AND ALL ASSOCIATED EQUIPMENT, DUCTWORK AND CONTROLS COMPLETE. REMOVE EXHAUST DUCTWORK UP FROM FLOOR BELOW AND MAINTAIN OPENING. REMOVE EXHAUST WEATHER CAP UP THROUGH ROOF AND TEMPORARILY COVER ROOF OPENING. ROOF AND FLOOR OPENINGS TO BE RE-USED AND MADE ENLARGED TO ACCOMMODATE NEW EXHAUST DUCTWORK.
9. REMOVE FUME HOOD AUXILIARY AIR SUPPLY FAN ON MECHANICAL ROOM FLOOR AND ALL ASSOCIATED EQUIPMENT, DUCTWORK AND CONTROLS COMPLETE. PATCH FLOOR AFTER REMOVAL OF DUCTWORK. SEE STRUCTURAL FOR MORE INFORMATION ON FLOOR PATCH.
10. EXISTING AIR HANDLING UNIT PT-AHU-1 AND ALL ASSOCIATED EQUIPMENT, DUCTWORK AND CONTROLS TO REMAIN. UNIT TO BE REBALANCED TO ACCOMMODATE NEW AIRFLOW IN NEW WORK PLAN.
11. REMOVE EXISTING CEILING EXHAUST FAN IN RESTROOM AND ASSOCIATED CONTROLS AND DUCTWORK COMPLETE. TEMPORARILY CAP DUCT AT EXISTING 10"X4" MAIN ABOVE. PREPARE DUCTWORK FOR NEW CONNECTION POINT IN NEW WORK.

STATE OF OHIO
DREW A. ROBINSON
PE-89418
REGISTERED PROFESSIONAL ENGINEER

tec inc. engineers | energy & sustainability
#916 Brookstone Ave, STE 240
Dublin, OH 43017
t 614.267.4677
f 614.267.5617
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

No.	DATE	DESCRIPTION	APP'VD:	DATE:

SUBMITTAL/REVISION RECORD

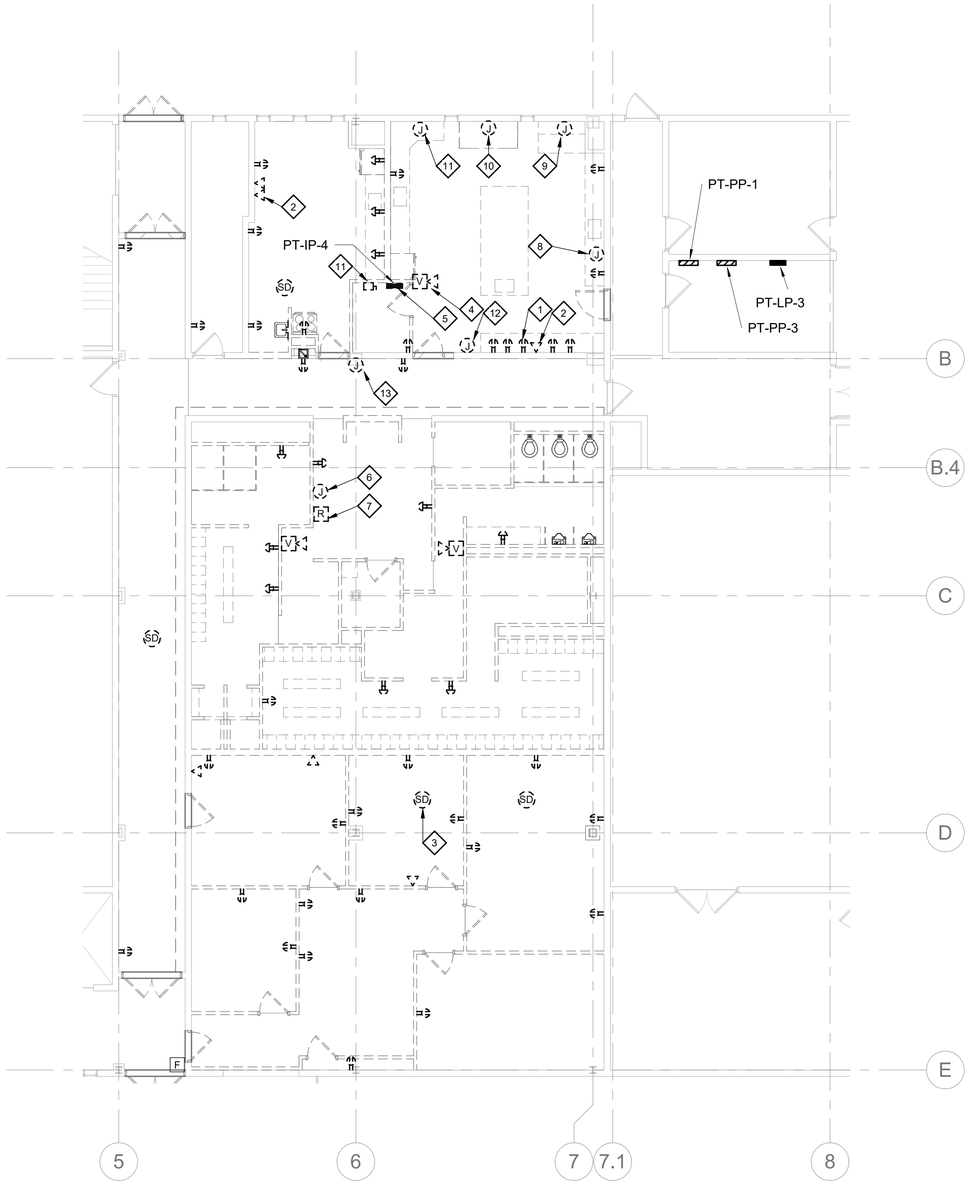
HVAC SECOND FLOOR DEMOLITION PLAN

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.
MD-102

PROJ NO.: 130012-59
DATE: 06/25/2025

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



1 ELECTRICAL FIRST FLOOR POWER DEMOLITION PLAN

1/8" = 1'-0"

DEMOLITION PLAN NOTES:

1. TYPICAL TO ALL: REMOVE EXISTING 20A, 120V DUPLEX RECEPTACLE COMPLETE.
2. TYPICAL TO ALL: REMOVE EXISTING DATA OUTLET AND CABLING COMPLETE.
3. TYPICAL TO ALL: REMOVE EXISTING CEILING MOUNTED SMOKE DETECTOR. MAINTAIN CIRCUIT TO SERVE EXISTING TO REMAIN DEVICES.
4. TYPICAL TO ALL: RELOCATE EXISTING WALL MOUNTED AUDIO / VISUAL FIRE ALARM DEVICE.
5. EXISTING PANEL TO BE RELOCATED TO NEW LOCATION ON SHEET E-200. DISCONNECT EXISTING FEEDER AND BRANCH CIRCUITS, AND MAINTAIN FOR CONNECTION TO NEW PANEL.
6. RELOCATE EXISTING HAND-OFF-AUTO STARTER FOR PT-AHU-1 EQUIPMENT, COORDINATE NEW LOCATION WITH NEW LAYOUT. EXTEND EXISTING CIRCUIT AS REQUIRED AND WIRE COMPLETE TO OPERATE THE SAME AS BEFORE RELOCATION
7. RELOCATE EXISTING DUCT TYPE SMOKE DETECTOR REMOTE INDICATOR, COORDINATE NEW LOCATION WITH NEW LAYOUT. EXTEND EXISTING CIRCUIT AS REQUIRED AND WIRE COMPLETE TO OPERATE THE SAME AS BEFORE RELOCATION.
8. REMOVE CIRCUIT FROM EXISTING DISHWASHER COMPLETE BACK TO SOURCE.
9. REMOVE EXISTING GAI-TRONICS CORP PAGING SYSTEM COMPLETE BACK TO SOURCE.
10. REMOVE EXISTING FUME HOOD CIRCUIT COMPLETE BACK TO SOURCE.
11. REMOVE EXISTING 30A, 480V, 3PH DISCONNECT SWITCH FOR LAB UNIT HEATER. REMOVE EXISTING CIRCUIT FROM LAB HEATER COMPLETE BACK TO SOURCE.
12. RELOCATE EXISTING GATE OPERATOR TO NEW LOCATION AS INDICATED BY OWNER (SEE PLAN NOTE 24 ON SHEET E-200). EXTEND EXISTING CIRCUIT TO NEW LOCATION AND WIRE COMPLETE TO OPERATE THE SAME AS BEFORE CONSTRUCTION.
13. REMOVE EXISTING TIME CLOCK FOR RELOCATION. SEE SHEET E-200 FOR NEW LOCATION. EXTEND CIRCUIT AND RECONNECT.

STATE OF OHIO
DREW A ROBINSON
PE-89438
REGISTERED PROFESSIONAL ENGINEER

tec inc. engineers & architects
4910 Tiedeman Ave, STE 240
Dublin, OH 43017
t 614.436.4477
f 614.436.5617
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD			
No.	DATE	DESCRIPTION	APP'VD. DATE

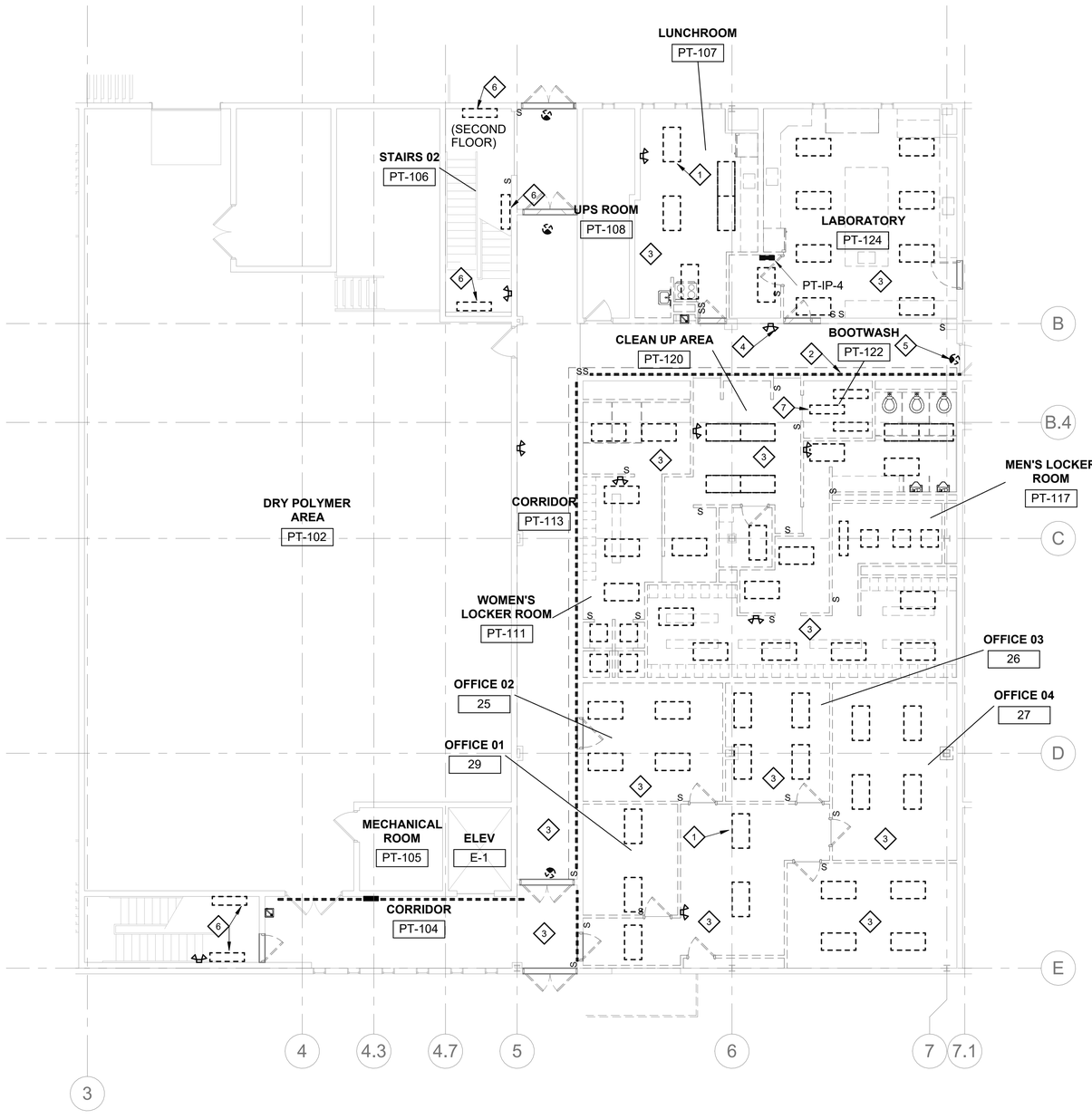
ELECTRICAL FIRST FLOOR POWER DEMOLITION PLAN

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.
ED-100

PROJ NO.: 130012-59
DATE: 06/25/2025

1/16" = 1'-0" | 1/8" = 1'-0" | 3/16" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"



DEMOLITION PLAN NOTES:

1. TYPICAL TO ALL: REMOVE EXISTING 2X4 LIGHT FIXTURE. MAINTAIN CIRCUIT FOR REUSE.
2. TYPICAL TO ALL: REMOVE EXISTING COVE LIGHTING IN CORRIDOR. MAINTAIN CIRCUIT FOR REUSE.
3. TYPICAL TO ALL: REMOVE EXISTING LIGHTING CONTROLS IN THIS AREA.
4. TYPICAL TO ALL: REMOVE EXISTING EMERGENCY EGRESS LIGHTING UNIT.
5. TYPICAL TO ALL: REMOVE EXISTING EMERGENCY EXIT SIGN.
6. REMOVE EXISTING STAIR LIGHT AND MAINTAIN CIRCUIT FOR REUSE.
7. TYPICAL TO ALL: REMOVE EXISTING LOCKER ROOM LIGHTING FIXTURE AND MAINTAIN CIRCUIT FOR REUSE.

1 ELECTRICAL FIRST FLOOR LIGHTING DEMOLITION PLAN

1/8" = 1'-0"

N

STATE OF OHIO
DREW A ROBINSON
PE-89438
REGISTERED PROFESSIONAL ENGINEER

tec inc. engineers & surveyors
#916 Brookstone Ave, STE 240
Dublin, OH 43017
t 614.267.4979
f 614.267.5617
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'D:	DATE:

ELECTRICAL FIRST FLOOR LIGHTING DEMOLITION PLAN

Eastern Regional Water Reclamation Facility Operations Building Renovation

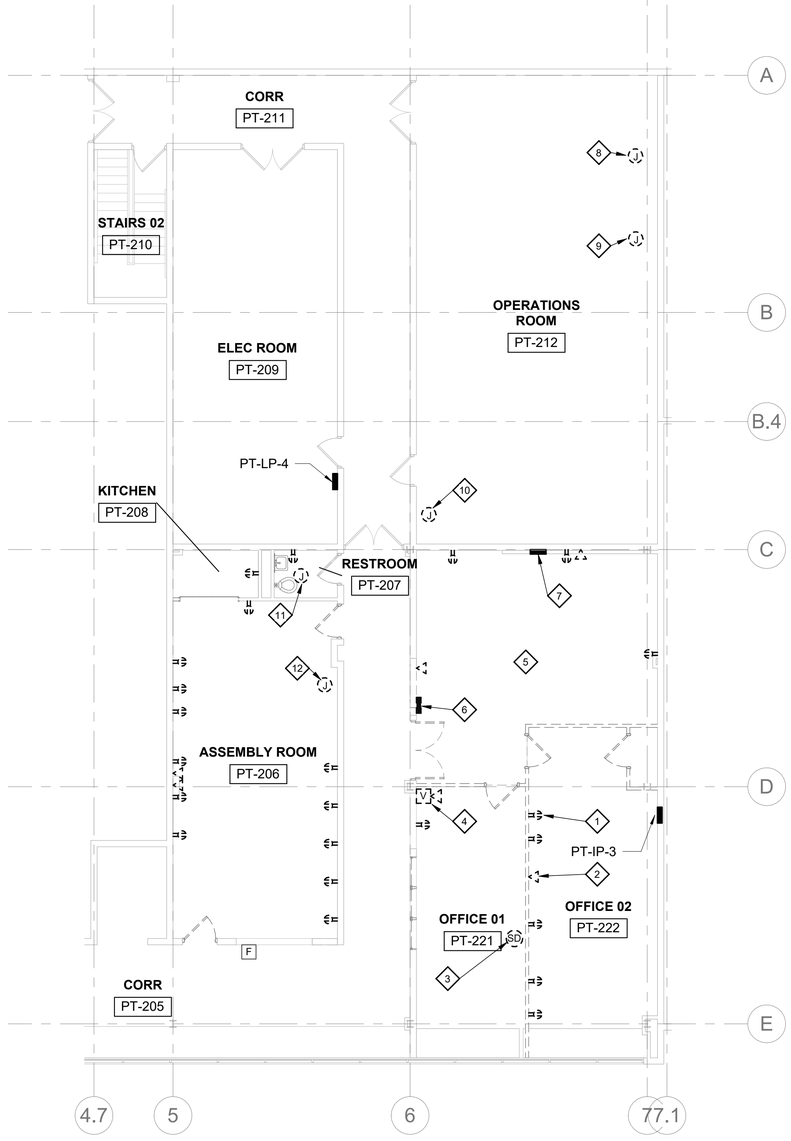
SHEET NO.

ED-101

PROJ NO.: 130012-59

DATE: 06/25/2025

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



1 ELECTRICAL SECOND FLOOR POWER DEMOLITION PLAN

1/8" = 1'-0"

N

DEMOLITION PLAN NOTES:

1. TYPICAL TO ALL: REMOVE EXISTING 20A, 120V DUPLEX RECPTACLE.
2. TYPICAL TO ALL: REMOVE EXISTING DATA OUTLET AND CABLING COMPLETE.
3. TYPICAL TO ALL: REMOVE EXISTING CEILING MOUNTED SMOKE DETECTOR. MAINTAIN CIRCUIT TO SERVE EXISTING TO REMAIN DEVICES.
4. TYPICAL TO ALL: RELOCATE EXISTING WALL MOUNTED AUDIO / VISUAL FIRE ALARM DEVICE. MAINTAIN EXISTING FIRE ALARM CIRCUIT FOR EXTENSION TO NEW LOCATION.
5. REMOVE ALL WIRING LOCATED UNDER THE RAISED FLOOR IN THIS ROOM COMPLETE. TRACE ALL EXISTING TO REMAIN FIRE ALARM CABLING AND BRANCH CIRCUIT WIRING TO LOCATION WHERE IT ENTERS THE UNDERFLOOR SPACE AND ROUTE TO ABOVE CEILING. EXTEND ALL EXISTING FIRE ALARM AND BRANCH CIRCUIT WIRING AS REQUIRED. PROVIDE NEW CAT6 CABLE FOR EXISTING TO REMAIN DATA DEVICES.
6. REMOVE ABANDONED HALON CONTROL PANEL COMPLETE.
7. REMOVE EXISTING COMMUNICATIONS HUB BOX COMPLETE. MAINTAIN EXISTING CAT6 CONNECTIONS AND REROUTE WIRING ABOVE CEILING.
8. REMOVE EXISTING CIRCUIT, DISCONNECT SWITCH, AND STARTER FOR FUME HOOD EXHAUST FAN COMPLETE BACK TO SOURCE.
9. REMOVE EXISTING CIRCUIT, DISCONNECT SWITCH, AND STARTER FOR FUME HOOD AUXILIARY SUPPLY FAN COMPLETE BACK TO SOURCE. REMOVE POWER CIRCUIT COMPLETE BACK TO SOURCE.
10. REMOVE EXISTING CIRCUIT, DISCONNECT SWITCH, AND STARTER FOR IN-LINE EXHAUST FAN COMPLETE BACK TO SOURCE.
11. REMOVE EXISTING EXHAUST FAN COMPLETE AND MAINTAIN CIRCUIT FOR REUSE.
12. REMOVE EXISTING EXHAUST FAN COMPLETE AND REMOVE CIRCUIT BACK TO SOURCE.

STATE OF OHIO
DREW A ROBINSON
PE-89438
REGISTERED PROFESSIONAL ENGINEER

tec inc. engineering & interiors
#916 Brookstone Ave., STE 240
Dublin, OH 43017
t 614.267.4777
f 614.267.5617
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'VD:	DATE:

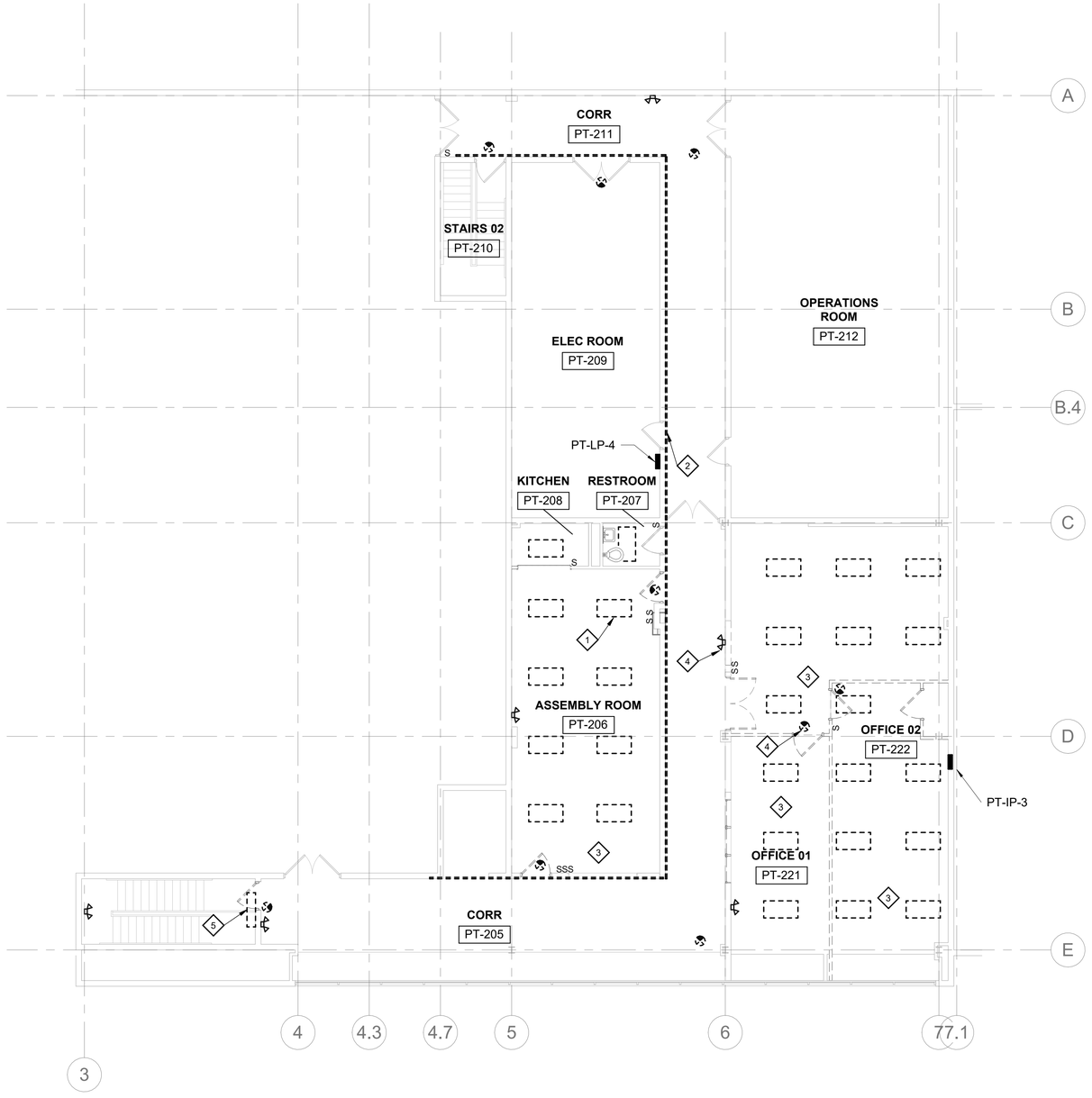
ELECTRICAL SECOND FLOOR POWER DEMOLITION PLAN

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.
ED-102

PROJ NO.: 130012-59
DATE: 06/25/2025

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



DEMOLITION PLAN NOTES:

1. TYPICAL TO ALL: REMOVE EXISTING 2X4 LIGHT FIXTURE. MAINTAIN CIRCUIT FOR REUSE.
2. TYPICAL TO ALL: REMOVE EXISTING COVE LIGHTING IN CORRIDOR. MAINTAIN CIRCUIT FOR REUSE.
3. TYPICAL TO ALL: REMOVE EXISTING LIGHTING CONTROLS IN THIS AREA.
4. TYPICAL TO ALL: REMOVE EXISTING EMERGENCY EGRESS LIGHTING UNIT AND EXIT SIGNS COMPLETE.
5. REMOVE EXISTING STAIR LIGHT AND MAINTAIN CIRCUIT FOR REUSE.

1 ELECTRICAL SECOND FLOOR LIGHTING DEMOLITION PLAN
1/8" = 1'-0"

STATE OF OHIO
DREW A ROBINSON
PE-89438
REGISTERED PROFESSIONAL ENGINEER

tec inc. engineering & management
4915 Bradenton Ave., STE 240
Dublin, OH 43017
t 614.267.1479
f 614.267.5431
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'D.	DATE

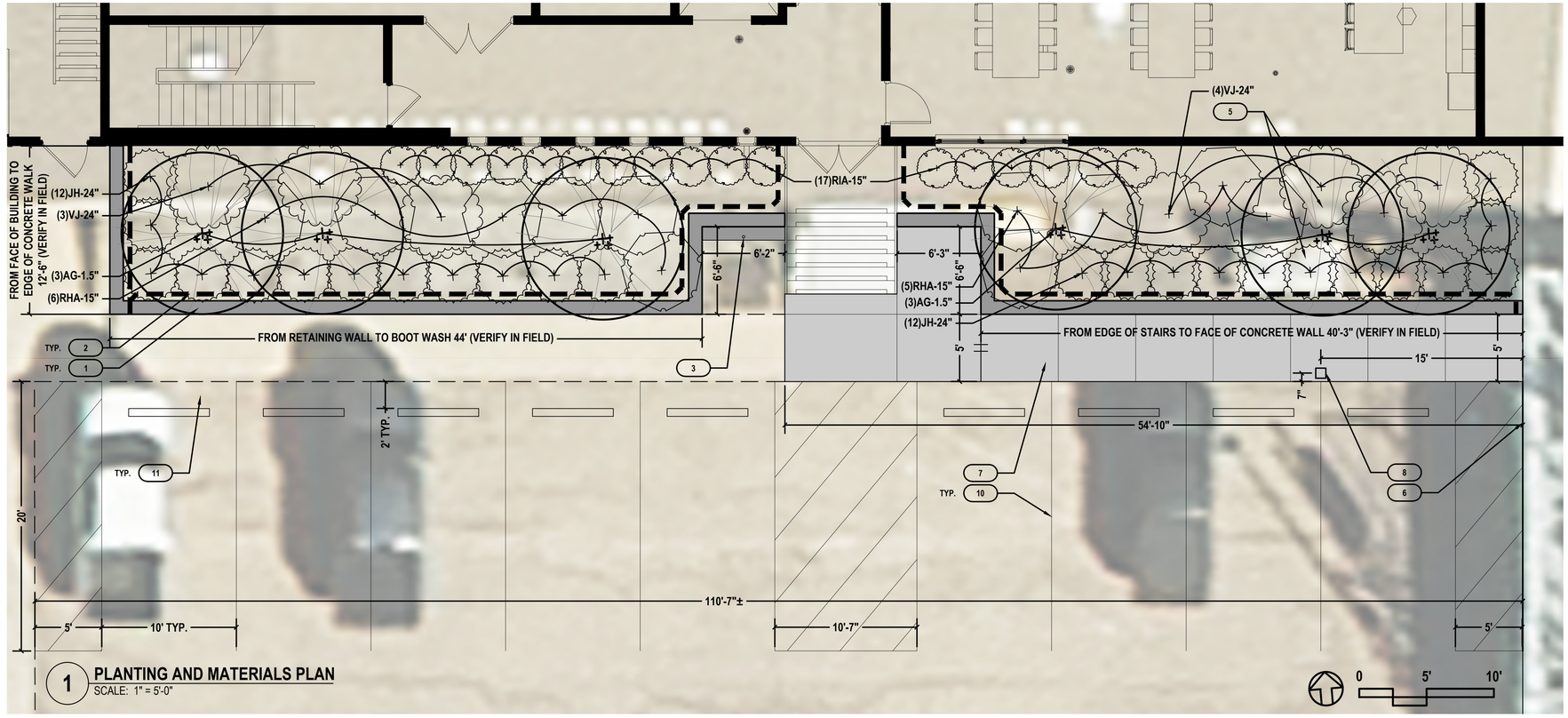
ELECTRICAL SECOND FLOOR LIGHTING DEMOLITION PLAN

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.
ED-103

PROJ NO.: 130012-59
DATE: 06/25/2025

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



1 PLANTING AND MATERIALS PLAN
SCALE: 1" = 5'-0"

PLANTING LEGEND



PLANTING - REFER TO TREE AND SHRUB PLANTING DETAILS



RETAINING WALL AND DRAINAGE PIPE - REFER TO RETAINING WALL DETAIL

PLANTING CODED NOTES

NUM.	DESCRIPTION
1	2.5' HIGH UNILOCK PISA RETAINING WALL. TO BE FLUSH AGAINST EXISTING RETAINING WALLS, SIDEWALKS, STAIRS, AND BOOT WASH PLATFORM. PROVIDE 1" EXPANSION JOINT BETWEEN EXISTING STRUCTURES AND WALLS. SALVAGE EXISTING STONE FOR RE-USE AS BACKFILL MATERIAL. REMOVE ANY SUB-GRADE SOIL TO DEPTH OF PLANTING SOIL - REFER TO RETAINING WALL DETAIL.
2	4" PERFORATED PLASTIC PIPE (DAYLIGHT THROUGH RETAINING WALL ONTO SIDEWALK AS SHOWN) - REFER TO RETAINING WALL DETAIL.
3	APPROX. BOOT WASH PIPE. CUT PISA COPING UNITS TO FIT BETWEEN FRONT OF RETAINING WALL AND BACK OF EXISTING BOOT WASH CONCRETE CURB.
5	FOR REMOVAL OF EXISTING LOADING DOCK, SLABS, AND UTILITIES REFER TO ARCH. SHEETS.
6	APPROXIMATE EDGE OF EXISTING CONCRETE RETAINING WALL - VERIFY IN FIELD.
7	4" DEEP CONCRETE SIDEWALK - REFER TO DETAIL. PROVIDE CONTRACTION AND EXPANSION JOINTS AS SHOWN. PROVIDE MIN. 2% CROSS SLOPE AWAY FROM RETAINING WALLS.
8	INSTALL CHARGING PEDESTAL AS SHOWN. REFER TO ARCH SHEETS.
9	REMOVE EXISTING PARKING STRIPING AND PROVIDE 4" WIDE WHITE STRIPING AS SHOWN.
10	PARKING STRIPING TO BE 4" WIDE WITH WHITE PAINT.
11	PROVIDE 5" HIGH x 7" WIDE x 6'-0" LONG CONCRETE PARKING WHEELSTOP BLOCK. INSTALL 2' AWAY FROM FACE OF SIDEWALK AND CENTERED BETWEEN PARKING STRIPING.

PLANTING GENERAL NOTES

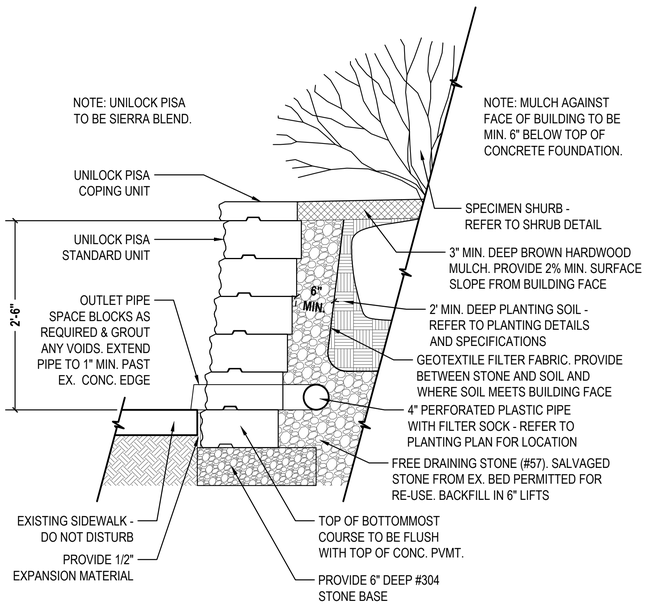
LET.	DESCRIPTION
A	VERIFY LOCATIONS OF PERTINENT SITE IMPROVEMENTS INSTALLED UNDER OTHER SECTIONS. IF ANY PART OF THIS PLAN CANNOT BE FOLLOWED DUE TO SITE CONDITIONS, NOTIFY THE A/E FOR DIRECTION ON HOW TO PROCEED.
B	EXACT LOCATIONS OF PLANT MATERIALS TO BE APPROVED BY THE LANDSCAPE ARCHITECT IN THE FIELD PRIOR TO INSTALLATION. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO ADJUST PLANTS TO THE EXACT LOCATION IN THE FIELD.
C	VERIFY PLANT COUNTS AND SQUARE FOOTAGES. QUANTITIES ARE PROVIDED AS OWNER INFORMATION ONLY. IF QUANTITIES ON PLANT LIST DIFFER THAN ON GRAPHIC INDICATIONS, GRAPHICS SHALL PREVAIL.
D	CONTACT THE UNDERGROUND UTILITY SERVICES FOR UTILITY LOCATIONS AND IDENTIFICATION.
E	PERFORM EXCAVATION IN THE VICINITY OF UNDERGROUND UTILITIES WITH CARE, AND IF NECESSARY, BY HAND. THE CONTRACTOR BEARS FULL RESPONSIBILITY FOR THIS WORK AND DISRUPTION OR DAMAGE TO UTILITIES SHALL BE REPAIRED IMMEDIATELY AT NO EXPENSE TO THE OWNER.
F	TREES SHALL BE PLANTED AT A MINIMUM OF 4 FEET FROM THE FACE OF BUILDING OR PAVEMENT, UNLESS APPROVED BY THE LANDSCAPE ARCHITECT.
G	PROVIDE MATCHING FORMS AND SIZES FOR PLANT MATERIALS.
H	REFER TO PLANTING DETAILS FOR INSTALLATION INSTRUCTIONS OF PLANT MATERIALS.
I	LANDSCAPE ARCHITECT TO REVIEW PLANT MATERIALS AT SOURCE OR BY PHOTOGRAPH PRIOR TO DIGGING OR SHIPPING OF PLANT MATERIALS.

TREE PLANT MATERIALS SCHEDULE

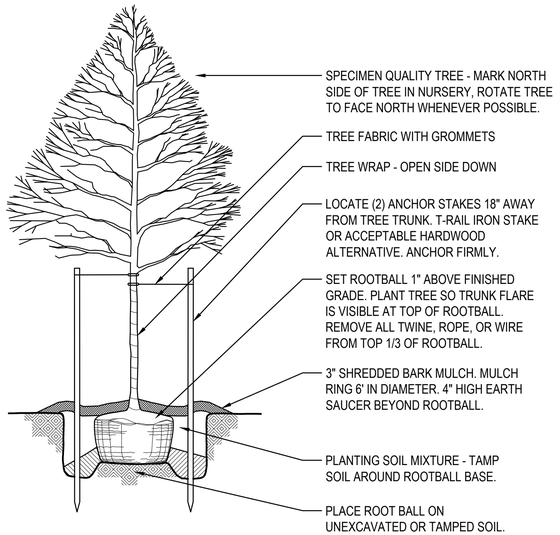
ABBR.	QTY.	SCIENTIFIC NAME	COMMON NAME	SPACING	SIZE	ROOT
DECIDUOUS TREES						
AG-1.5"	6	Amelanchier x grandiflora ' Autumn Brilliance'	Autumn Brillance Serviceberry	AS SHOWN	1.5" CAL.	B&B

UNDERSTORY PLANT MATERIALS SCHEDULE

ABBR.	QTY.	SCIENTIFIC NAME	COMMON NAME	SPACING	SIZE	ROOT
DECIDUOUS SHRUBS						
RHA-15"	11	Rhus aromatica 'Gro'Low'	Gro-low Fragrant Sumac	5' ON CENTER	15" HGT.	NO. 3 CONT.
RIA-15"	17	Ribes alpinum 'Green Mound'	Green Mound Alpine Currant	2.5' ON CENTER	15" HGT.	B&B
VJ-24"	7	Viburnum x juddii	Judd Viburnum	AS SHOWN	24" HGT.	NO. 5 CONT.
EVERGREEN SHRUBS						
JH-12"	24	Juniperus horizontalis 'Blue Chip'	Blue Chip Juniper	3.75' ON CENTER	12" HGT.	NO. 3 CONT.

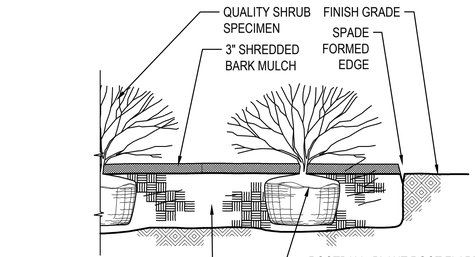


2 RETAINING WALL DETAIL
SCALE: 1" = 1'-0"



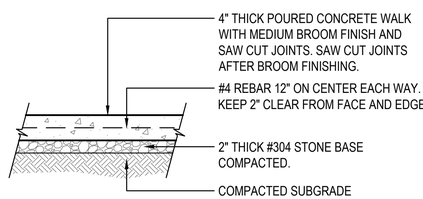
NOTE: HEAVY PRUNING AT PLANTING IS NOT ACCEPTABLE. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS, AND BROKEN OR DEAD BRANCHES, SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED. HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.

3 TREE PLANTING DETAIL
SCALE: 1/2" = 1'-0"



NOTE: MULCH ENTIRE PLANT BED. SEE PLANS FOR LIMIT OF PLANT BEDS.

4 SHRUB PLANTING DETAIL
SCALE: 1/2" = 1'-0"



5 4" THICK CONCRETE WALK PAVEMENT DETAIL
SCALE: 1" = 1'-0"

STATE OF OHIO PATRICK J. BEAM 7800375 REGISTERED LANDSCAPE ARCHITECT

PATRICK J. BEAM
L.A. 7800375
EXP. 12/31/2026

BEAM DESIGNS
LANDSCAPE ARCHITECTURE
SITE PLANNING
4333-A TULLER RD.
DUBLIN, OH 43017
PHONE: 614.659.7003
info@beamdesignsllc.com
www.beamdesignsllc.com

DESIGNED BY: PJB/JWM
CONSTRUCTED BY: JWM
START DATE: 05/23/2025
COMPLETION DATE: 06/25/2025

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'D.	DATE

PLANTING AND MATERIALS PLAN AND DETAILS

Eastern Regional Water Reclamation Facility Operations and Maintenance Buildings Renovation

SHEET NO.
L-101

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"

GENERAL NOTES

I. GENERAL

A. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTORS TO CHECK WITH THE ARCHITECTURAL DRAWINGS BEFORE INSTALLATION OF STRUCTURAL, MECHANICAL, AND ELECTRICAL WORK. SHOULD THERE BE DISCREPANCY BETWEEN THE ARCHITECTURAL DRAWINGS AND THE ENGINEERING DRAWINGS THAT WOULD CAUSE AN AWKWARD OR IMPROPER INSTALLATION, IT SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION FOR CLARIFICATION PRIOR TO INSTALLATION OF SAID WORK.

B. THIS IS A SINGLE PRIME CONTRACT ANY AND ALL REFERENCE TO MULTIPLE CONTRACTORS ARE FOR TRADE SPECIFIC CONTRACTOR'S INFORMATION. ALL CONTRACTOR WORK DESCRIBED IN THESE CONSTRUCTION DOCUMENTS IS THE RESPONSIBILITY OF THE LEAD CONTRACTOR.

C. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO THOSE SHOWN. WHERE SPECIFIC DIMENSIONS, DETAILS, OR DESIGN INTENT CANNOT BE DETERMINED, CONSULT THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

D. FILL ANY MASONRY VOIDS WITH MORTAR OR GROUT WHERE ANCHORS OCCUR.

E. SEPARATE ALL DISSIMILAR METALS TO PREVENT CORROSION CAUSED BY DIALECTIC ACTION, OR BY OTHER CAUSES AS RECOMMENDED BY THE RESPECTIVE PRODUCT MANUFACTURER / SUPPLIER.

F. THERE SHALL BE NO EXPOSED PIPE, CONDUITS, DUCTS, VENTS, ETC. IN DESIGNATED FINISH SPACES, UNLESS NOTED AS EXPOSED CONSTRUCTION ON FINISH SCHEDULE.

G. PROVIDE WOOD BLOCKING IN WALLS AS REQUIRED IN ORDER TO SECURE ALL EQUIPMENT ACCESSORIES, CASEWORK, ETC. OR FURNISHED ITEMS INCLUDING ITEMS OWNER FURNISHED OR PROVIDED.

H. PROVIDE CONTROL JOINTS IN GYPSUM BOARD AT MAXIMUM DISTANCE OF 30 LINEAR FEET FOR VERTICAL SURFACES AND 50 LINEAR FEET OR 2,500 SQUARE FEET FOR CEILINGS. REFER TO REFLECTED CEILING PLANS, PLANS AND WALL ELEVATIONS FOR SPECIFIC LOCATIONS. PROVIDE CONTROL JOINT AT SWING SIDE OF ALL DOORS. WHERE CONTROL JOINT IS INDICATED IN MASONRY, KEEP HEAD JOINTS CLEAR OF ALL MORTAR. PROVIDE CONTINUOUS BEAD OF SEALANT WITH BACKER ROD.

I. REFER TO STRUCTURAL DRAWINGS FOR ALL LINTEL MATERIALS AND SIZES.

J. REFER TO THE SPECIFICATIONS FOR DESCRIPTIONS OF INSULATION TYPES, GLASS TYPES, AND HARDWARE SETS.

K. ALL EXPOSED CONCRETE BLOCK OUTSIDE CORNERS ARE TO BE BULLNOSE.

GENERAL CONT

L. GENERAL TRADES CONTRACTOR TO COORDINATE FLOOR SLAB DEPRESSIONS REQUIRED BY FLOOR FINISH MATERIALS. PROVIDE LEVEL FINISH FLOOR. PROVIDE LOCAL DEPRESSION AT FLOOR DRAINS OF 1/4-INCH UON.

M. ALL TOILET ACCESSORY ITEMS NOTED HANDICAP ARE TO BE INSTALLED PER ICC A117.1 AND AMERICAN BARRIER ACT (ADAAG) STANDARDS, ANY DEVIATION FROM ICC A117.1 & ADA STANDARDS SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO INSTALLATION.

N. PROVIDE ACCESS PANELS AS REQUIRED BY APPLICABLE CODES AND AS REQUIRED FOR MECHANICAL EQUIPMENT. ACCESS PANELS LOCATED IN FINISHED SURFACES SHALL BE PAINTED TO MATCH ADJACENT SURFACES. LOCATION SHALL BE REVIEWED WITH THE ARCHITECT PRIOR TO PROCEEDING WITH INSTALLATION.

O. PROVIDE 8'-0" HIGH CORNER GUARDS AT ALL EXTERIOR CORNERS OF INTERIOR PARTITION WALLS.

P. FIRE EXTINGUISHERS ARE TYPE FE-1 UON REFER TO SPECIFICATIONS FOR FIRE EXTINGUISHER TYPES.

II. FIRE RESISTANCE RATING

A. FIRE RATING INDICATIONS ON A WALL SHALL MEAN THE ENTIRE LENGTH OF WALL IS TO BE FIRE RATED. REFER TO DRAWINGS AND SPECIFICATIONS FOR UL DETAILS.

B. PIPING, DUCTS, ETC., THAT PENETRATE WALLS SHALL BE INSTALLED IN A MANNER THAT WILL PRESERVE THE FIRE RESISTANCE RATING & STRUCTURAL INTEGRITY OF THE WALL. REFER TO MEP DRAWINGS FOR UL DETAILS.

C. RECESSED CABINETS, PANELS, BOXES AND CORNER GUARDS LOCATED IN FIRE RATED WALLS SHALL BE INSTALLED IN SUCH A WAY AS TO MAINTAIN THE FIRE RATED CONSTRUCTION.

D. WHERE REQUIRED FIREPROOFING IS REMOVED OR DAMAGED FOR THE PLACING OF WORK, CUP ANGLES, BRACES OR SUPPORTS, ETC. THE FIREPROOFING SHALL BE REPLACED BY THE CONTRACTOR REMOVING OR DAMAGING THE FIREPROOFING TO MAINTAIN THE INTEGRITY OF THE FIREPROOFING SYSTEM. REFER TO SPECIAL INSPECTIONS IN THE SPECIFICATIONS.

III. DIMENSIONS

A. DO NOT SCALE THE DRAWINGS. CONTRACTORS ARE RESPONSIBLE FOR FIELD VERIFYING ALL CONDITIONS BEFORE PROCEEDING WITH ANY WORK. DISCREPANCIES BETWEEN FIELD CONDITIONS AND DRAWINGS SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH ANY WORK. FAILURE OF THE CONTRACTOR TO REVIEW THE CONTRACT DOCUMENTS AND VERIFY THE EXISTING CONDITIONS SHALL NOT BE SUFFICIENT CAUSE TO WARRANT A CHANGE IN CONTRACT AFTER CONTRACT IS AWARDED.

B. INTERIOR PARTITIONS ARE DIMENSIONED TO THE FINISH FACE OF MASONRY OR GYPSUM BOARD, EXCLUDING FINISH MATERIALS SUCH AS CERAMIC TILE. THE CONTRACTOR SHALL COORDINATE FINISH DIMENSIONS WITH FINISH SCHEDULE WHEN CRITICAL TO THE INSTALLATION OF MILL WORK, CASEWORK, OR EQUIPMENT.

C. UNLESS SHOWN OTHERWISE, DOOR LOCATIONS NOT LOCATED BY DIMENSIONS SHALL BE CENTERED IN WALL OR BE LOCATED 4" FROM FINISH PERPENDICULAR WALL TO EDGE OF DOOR FRAME.

D. DIMENSIONING AT OPENINGS ARE THE CLEAR OPENING WHICH INCLUDES THE FRAME AND WINDOW/DOOR .

IV. CASEWORK

A. IF CASEWORK IS REFERENCED AS SIMILAR, CASEWORK MAY BE DIFFERENT DUE TO PLAN CONFIGURATION. COORDINATE DIFFERENCES WITH PLAN AS NEEDED. USE FILLERS, FINISHED ENDS, ETC.

B. REFER TO MOUNTING HEIGHT SHEET A-001 FOR TYPICAL MOUNTING HEIGHTS.

C. BACK SPLASHES & SIDE SPLASHED ARE TO LOCATED AT ALL SINK AREAS.

D. TO INSURE PROPER & ADEQUATE BLOCKING, ALL BLOCKING LOCATIONS FOR CASEWORK WILL BE THE RESPONSIBILITY OF THE PARTY OR PARTIES PROVIDING CASEWORK & SHALL COORDINATE WITH THE GENERAL TRADES CONTRACTOR WHO PROVIDES THE BLOCKING.

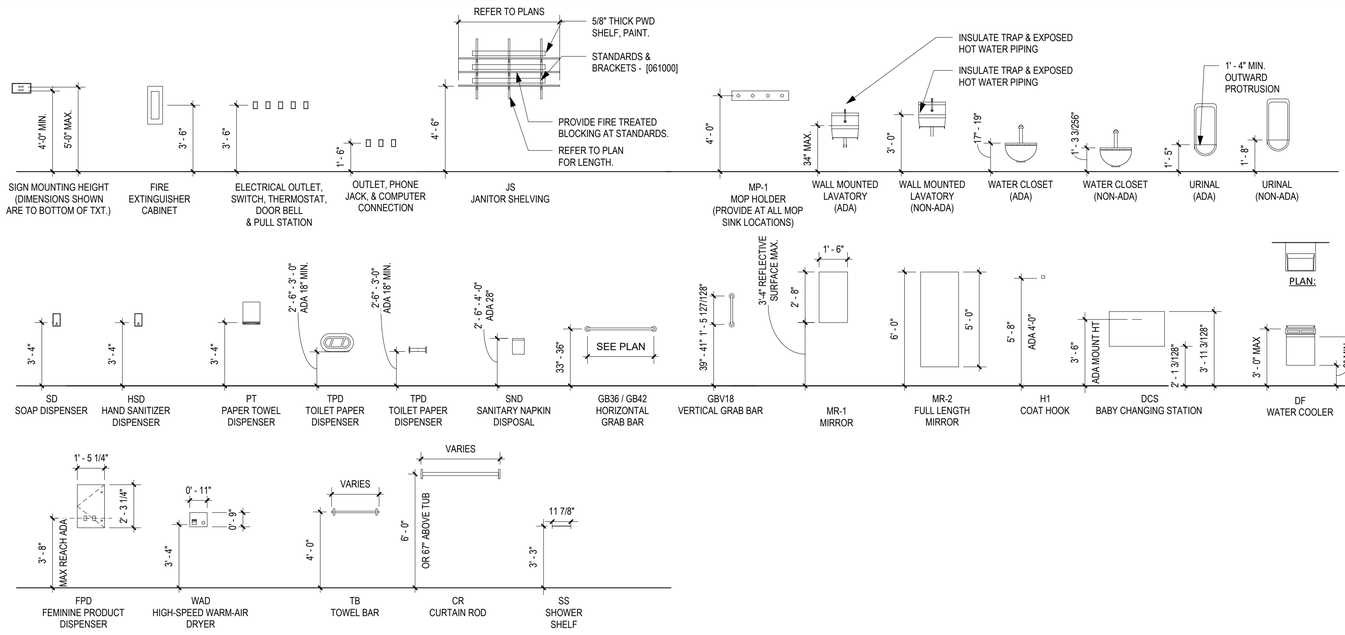
V. SIGNAGE

A. REFER TO SPECIFICATION SECTION 101400 "SIGNAGE".

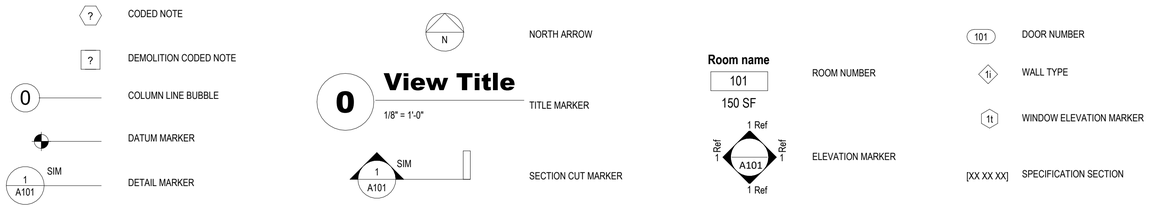
B. PROVIDE EXIT SIGNAGE AT EACH BUILDING EXIT AND AT EACH EXIT IN ASSEMBLY SPACE WHERE MORE THAN ONE EXIT IS REQUIRED.

C. PROVIDE SIGNAGE AT EACH FIRE EXTINGUISHER OR FIRE EXTINGUISHER CABINET.

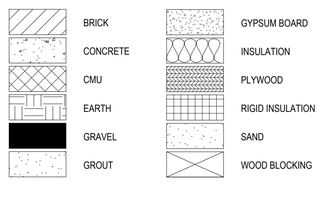
FIXTURE HEIGHT



ARCHITECTURAL SYMBOLS LEGEND



MATERIAL LEGEND



ARCHITECTURAL ABBREVIATIONS

ABBREV	DEFINITION
#	NUMBER
&	AND
@	AT
A/C	AIR CONDITIONING
A/E	ARCHITECT ENGINEER
A/V	AUDIO VIDEO
ACT	ACOUSTICAL CEILING TILE
ADA	AMERICANS WITH DISABILITES ACT
ADD	ADDENDUM
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
AL	ALUMINUM
ALT	ALTERNATE
ARCH	ARCHITECT(URAL)
AS	ADJUSTABLE SHELF
AUTO	AUTOMATIC
AWP	ACOUSTICAL WALL PANEL
BD	BOARD
BIT	BITUMINOUS
BLDG	BUILDING
BLKG	BLOCKING
BO	BOTTOM OF
BOT	BOTTOM
BTWN	BETWEEN
CG	CORNER GUARD
CHT	CEILING HEIGHT
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR(ANCE)
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
CPT	CARPET/CARPET TILE
CT	CERAMIC TILE
CW	COLD WATER
D	DEPTH
DEMO	DEMOLISH
DET	DETAIL
DH	DOOR HEADER
DI	IONIZED WATER
DIA	DIAMETER
DIM	DIMENSION
DP	DEEP
DS	DOWN SPOUT
DWG(S)	DRAWING(S)
EA	EACH
ECT	ET CETERA
EF	EACH FACE
EIFS	EXTERIOR INSULATED FINISHING SYSTEM
EJ	EXPANSION JOINT
ELEC	ELECTRIC(AL)
ELEV	ELEVATION
EMER	EMERGENCY
EQ	EQUAL
EXIST	EXISTING
EXP	EXPOSED
EXT	EXTERIOR
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER-BRACKET MT
FEC	FIRE EXTINGUISHER & CABINET
FF	FINISHED FLOOR
FF&E	FINISH FLOOR ELEVATION
FFE	FURNITURE, FIXTURES & EQUIPMENT
FLR	FLOOR(ING)
FTG	FOOTING
G	GAS
GA	GAGE, GAUGE
GB	GRAB BAR
GC	GENERAL TRADES CONTRACTOR
GL	GLASS, GLAZING
GYP BD	GYPSUM BOARD
H	HIGH
HB	HOSE BIB
HC	HANDICAP
HDW	HARDWARE
HM	HOLLOW METAL
HT	HEIGHT
HVAC	HEATING / VENTILATION / AIR CONDITIONING

ARCHITECTURAL ABBREVIATIONS

ABBREV	DEFINITION
HW	HOT WATER
IJ	ISOLATION JOINT
IN	INCH
INCL	INCLUDE(D), INCLUDING
INSUL	INSULATION
INT	INTERIOR
JC	JANITOR'S CLOSET
JT	JOINT
LAB	LABORATORY
LAM	LAMINATE(D)
LAV	LAVATORY
M	MIRROR
MAX	MAXIMUM
MECH	MECHANIC(AL)
MEP	MECHANICAL/ ELECTRICAL/ PLUMBING
MFR	MANUFACTURE(R)
MIN	MINIMUM
MISC	MISCELLANEOUS
MKBD	MARKERBOARD
MT	MOUNT
MTL	METAL
N	NORTH
NIC	NOT IN CONTRACT
NO.	NUMBER
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
OC	ON CENTER(S)
OD	OUTSIDE DIAMETER OR OVERFLOW DRAIN
OPH	OPPOSITE HAND
OPP	OPPOSITE
P	PAINT
PLAM	PLASTIC LAMINATE
PNL	PANEL
PROJ	PROJECTION
PSI	POUNDS PER SQUARE INCH
PWD	PLYWOOD
RB	RUBBER BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REF	REFERENCE
REINF	REINFORCE(D), REINFORCING
REQ'D	REQUIRED
RES	RESILIENT
RESIN	RESINOUS
RFG	ROOFING
RM	ROOM
RO	ROUGH OPENING
RR	RESTROOM
SECT	SECTION
SF	SQUARE FOOT/FEET
SIM	SIMILAR
SMACNA	SHEET METAL & AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
SPEC	SPECIFICATION(S)
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPENDED
TEL	TELEPHONE
TEMP	TEMPORARY
THK	THICK(NESS)
TKBD	TACK BOARD
TO	TOP OF
TOC	TOP OF CONCRETE
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TOW	TOP OF WALL
TPD	TOILET PAPER DISPENSER
TSL	TOP OF SLAB
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VCT	VINYL COMPOSITION TILE
W	WIDTH
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WIN	WINDOW
WM	WIRE MESH

STATE OF OHIO
THOMAS W. GATES
12109
6-26-25
REGISTERED ARCHITECT

THOMAS W. GATES
ARC.9812169
EXP. 12/31/2025

SPGB Architects
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

No.	DATE	DESCRIPTION	APP'VD.	DATE:

SUBMITTAL/REVISION RECORD

ARCH ABBREVIATIONS, SYMBOLS & NOTES

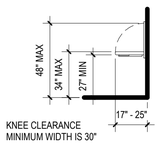
Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.
A-001

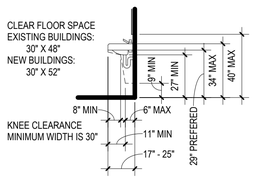
PROJ NO.: 130012-59
DATE: 6/25/2025

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"

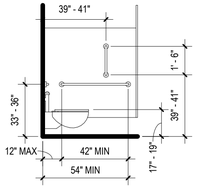
FIXTURE HEIGHT LEGEND



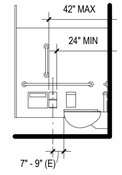
BABY CHANGING STATION



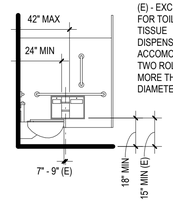
LAVATORY CLEARANCES



SEAT HEIGHT AND GRAB BAR LOCATIONS



INDIVIDUAL ACCESSORIES

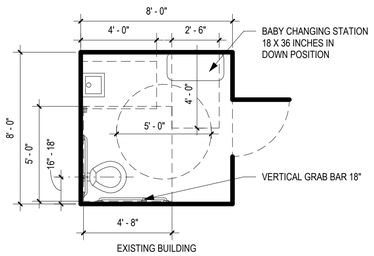


COMBINATION ACCESSORIES

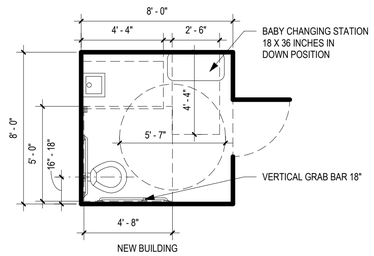
(E) - EXCEPTION FOR TOILET TISSUE DISPENSERS THAT ACCOMODATE TWO ROLLS NOT MORE THAN 5" IN DIAMETER

ACCESSIBLE RESTROOMS LEGEND

INDIVIDUAL TOILET ROOM WITH BABY CHANGING STATION

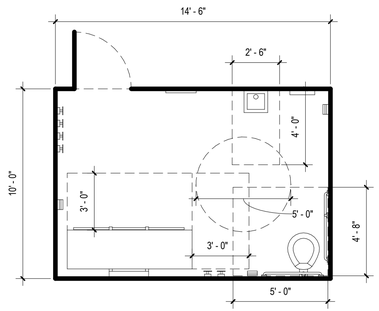


EXISTING BUILDING

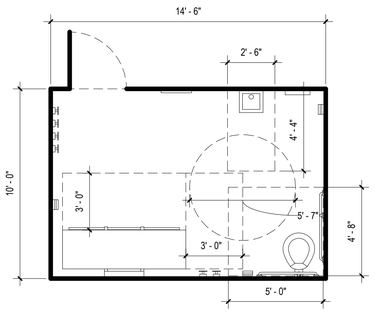


NEW BUILDING

INDIVIDUAL TOILET ROOM WITH ADULT CHANGING STATION

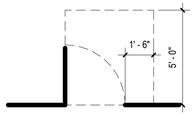


EXISTING BUILDING

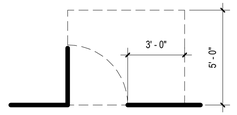


NEW BUILDING

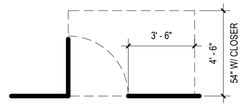
ACCESSIBLE DOOR CLEARANCE LEGEND



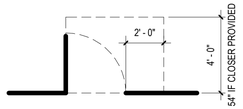
FRONT APPROACH MANUAL SWING DOOR



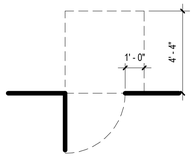
HIDGE APPROACH- PULL SIDE
MANUAL SWING DOOR



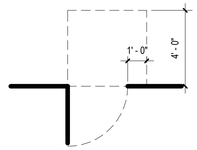
HINGE APPROACH- PULL SIDE
MANUAL SWING DOOR



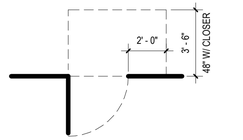
LATCH APPROACH- PULL SIDE
MANUAL SWING DOOR



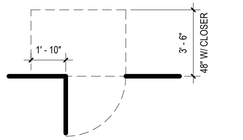
FRONT APPROACH MANUAL SWING DOOR



EXISTING
FRONT APPROACH MANUAL SWING DOOR

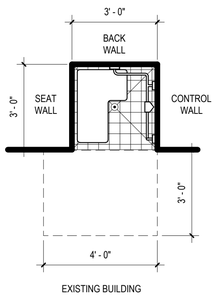


LATCH APPROACH- PUSH SIDE
MANUAL SWING DOOR

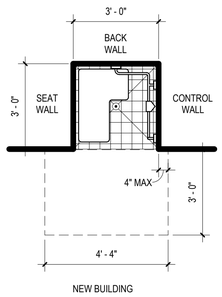


HINGE APPROACH- PUSH SIDE
MANUAL SWING DOOR

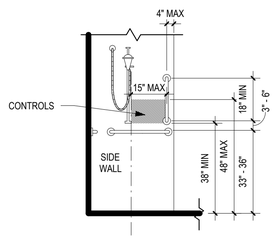
INDIVIDUAL SHOWER COMPARTMENTS LEGEND



EXISTING BUILDING

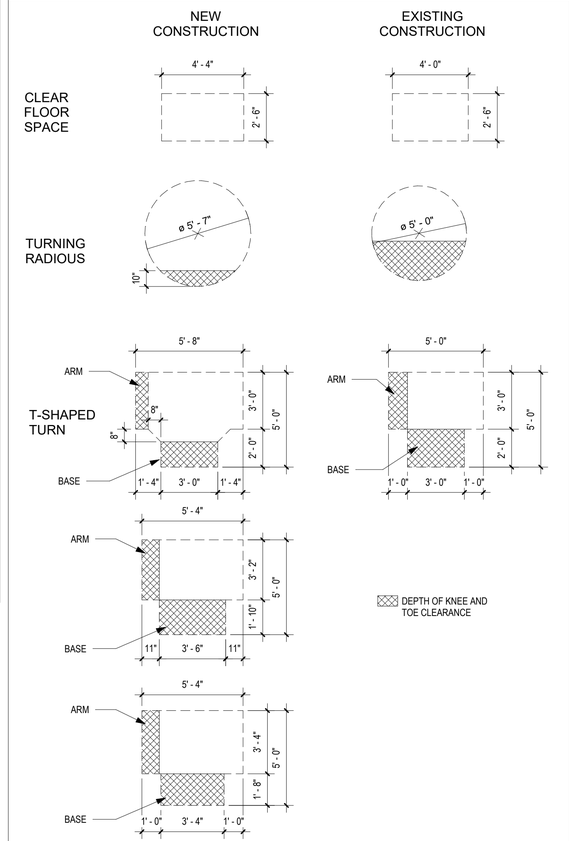


NEW BUILDING



CONTROL LOCATIONS

ACCESSIBLE CLEAR FLOOR SPACE



STATE OF OHIO
THOMAS W. GATES
12169
6-26-25
REGISTERED ARCHITECT

THOMAS W. GATES
ARC.9812169
EXP. 12/31/2025

SPGB Architects
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'VD:	DATE:

ARCHITECTURAL ACCESSIBLE CLEARANCE

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.
A-002

PROJ NO.: 130012-59
DATE: 6/25/2025

1/16" = 1'-0" | 1/8" = 1'-0" | 3/16" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"

CODED NOTES

1	NO WORK IN AREA AS INDICATED BY SHADED REGION UON
2	EXIST UNIT HEATER TO REMAIN, PAINT TO MATCH ADJACENT WALL FINISH
3	PROVIDE BOTTLE FILLER. REFER TO PLUMBING DWGS.
4	PROTECT EXIST TIME CLOCK, MAINTAIN USE DURING CONSTRUCTION.
5	REFER TO ELECTRICAL DWGS FOR SYSTEM TERMINATION POINTS LOCATED IN ROOM PT-126.
6	FIRE EXTINGUISHER EXISTING TO REMAIN.

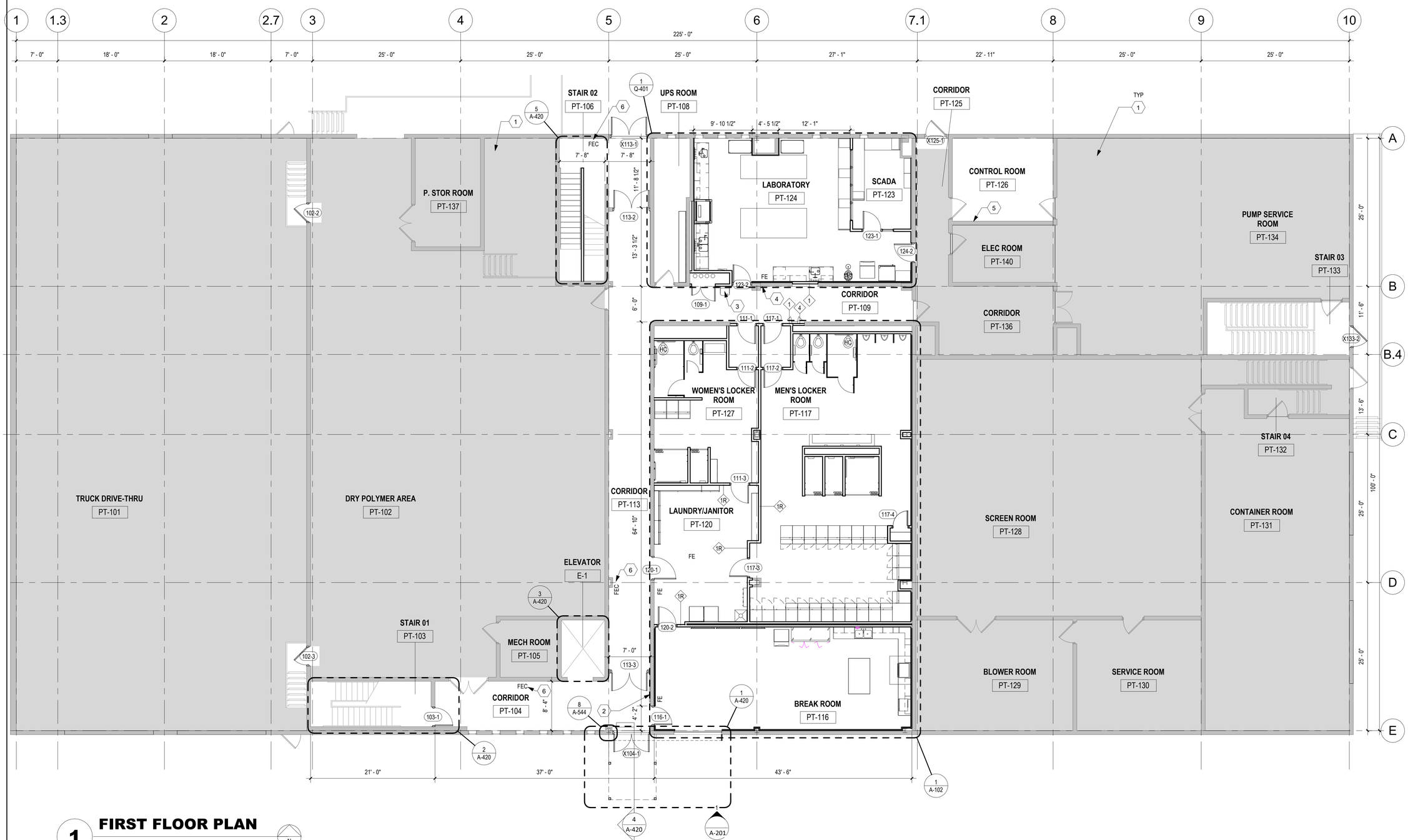
GENERAL NOTES

A. INTERIOR PARTITIONS ARE TYPE 1 UON. REFER TO SHEET A-520 FOR PARTITION TYPES.

B. REFER TO SHEET A-601 FOR INTERIOR BORROW LIGHT ELEVATIONS.

C. REFER TO SHEET A-001 FOR FIXTURE MOUNTING HEIGHTS AND TYPES.

D. COORDINATE ALL FLOOR DRAIN LOCATIONS WITH PLUMBING DRAWINGS. (FD)



1 FIRST FLOOR PLAN

1/8" = 1'-0"

N

STATE OF OHIO
THOMAS W. GATES
12169
6-26-25
REGISTERED ARCHITECT

THOMAS W. GATES
ARC.9812169
EXP. 12/31/2025

SPGB Architects
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'VD:	DATE:

FIRST FLOOR PLAN

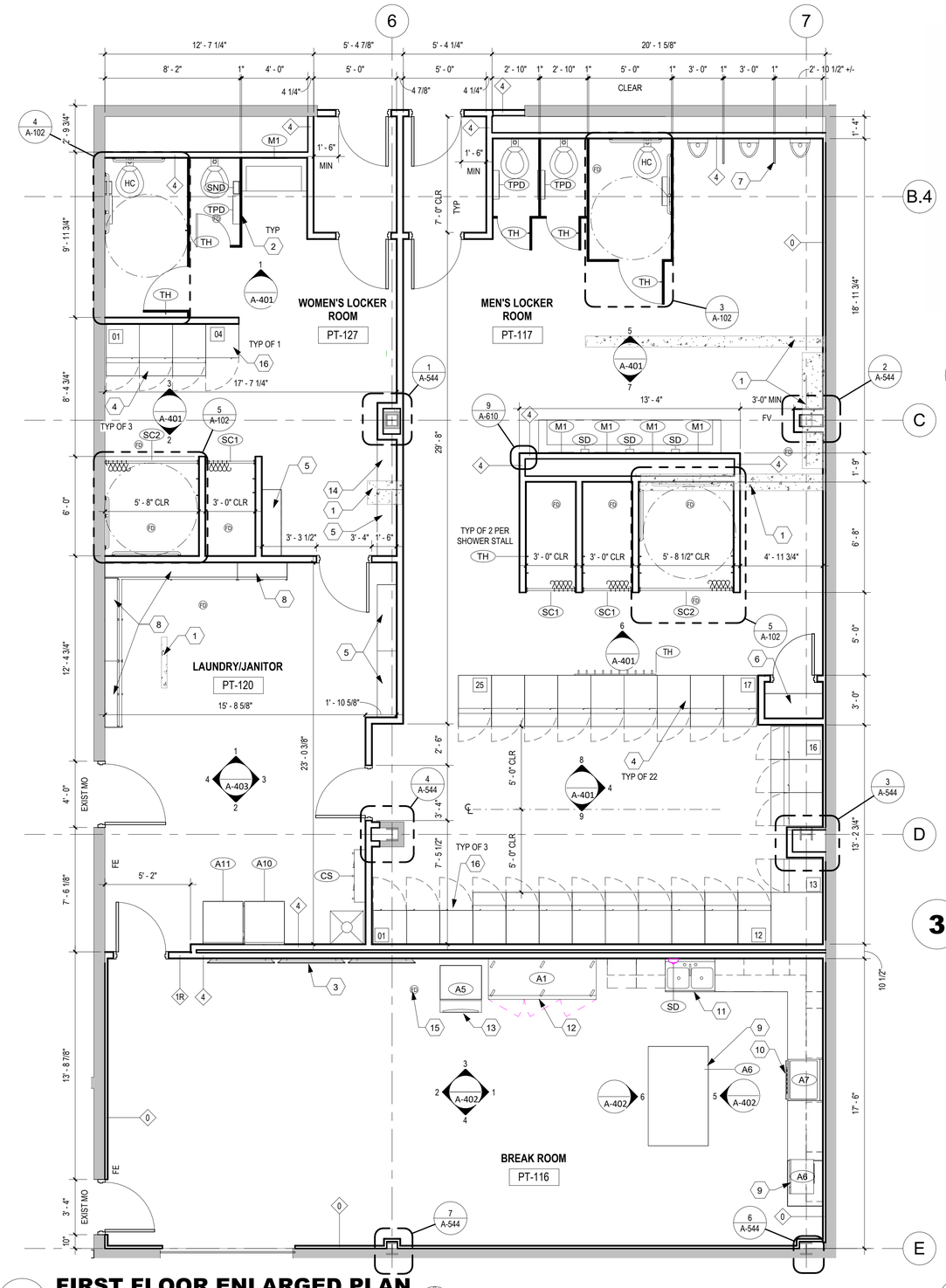
Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.
A-101

PROJ NO.: 130012-59

DATE: 6/25/2025

1/16" = 1'-0" 0 4' 8' 16' | 1/8" = 1'-0" 0 2' 4' 8' | 3/16" = 1'-0" 0 2' 4' 8' | 1/4" = 1'-0" 0 1' 2' 4' | 3/8" = 1'-0" 0 1' 2' 4' | 1/2" = 1'-0" 0 6" 1' 2' | 3/4" = 1'-0" 0 3" 6" 1' 2' | 1" = 1'-0" 0 3" 6" 1' 2' | 1 1/2" = 1'-0" 0 3" 6" 1' | 3" = 1'-0" 0 1" 2" 3" 6" 1' | 6" = 1'-0" 0 1" 2" 3" 6"



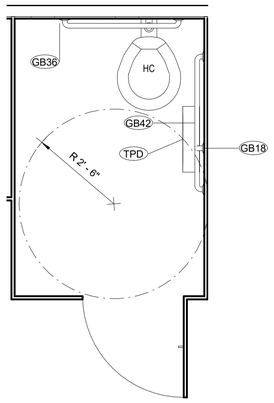
1 FIRST FLOOR ENLARGED PLAN

1/4" = 1'-0"



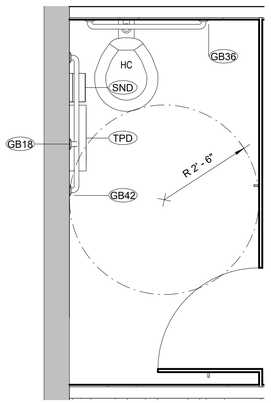
2 TYPICAL LOCKER W/ WOOD BENCH

FOR REFERENCE ONLY



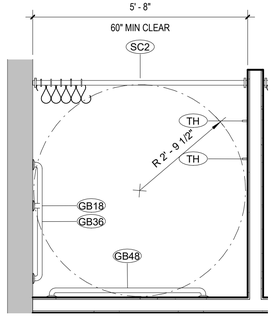
3 ACCESSIBLE STALL MEN'S LOCKER ROOM

1/2" = 1'-0"



4 ACCESSIBLE STALL WOMEN'S LOCKER ROOM

1/2" = 1'-0"



5 TYPICAL ACCESSIBLE SHOWER

1/2" = 1'-0"

GENERAL NOTES

A. INTERIOR PARTITIONS ARE TYPE 1 UON. REFER TO SHEET A-520 FOR PARTITION TYPES.

B. REFER TO SHEET A-601 FOR INTERIOR BORROW LIGHT ELEVATIONS.

C. REFER TO SHEET A-001 FOR FIXTURE MOUNTING HEIGHTS AND TYPES.

D. COORDINATE ALL FLOOR DRAIN LOCATIONS WITH PLUMBING DRAWINGS. (FD)

FIXTURE SCHEDULE

TAG	DESCRIPTION	REMARKS
C1	LAB CART	BY OWNER
CS	CUSTODIAL SHELF	
GB18	18" GRAB BAR	VERTICAL
GB36	36" GRAB BAR	
GB42	42" GRAB BAR	
GB48	48" GRAB BAR	
M1	18" X 36" MIRROR	
PTD	PAPER TOWEL DISPENSER	
SC1	SHOWER CURTAIN & ROD	36" X 60" SHOWER STALL
SC2	SHOWER CURTAIN & ROD	68" X 60" ADA SHOWER STALL
SD	SOAP DISPENSER	
SND	SANITARY NAPKIN DISPOSAL	
TH	TOWEL HOOK	
TPD	TOILET PAPER DISPENSER	

CODED NOTES (X)

1	AREA OF EXISTING CHASE. INFILL WITH CONCRETE TO ALIGN W/ TOP OF EXISTING SLAB, REFER TO TYP DETAIL ON STRUCTURAL DWGS. PREP TO RECEIVE FINISH FLOOR MATERIAL.
2	PROVIDE TOILET PARTITIONS.
3	PROVIDE IN WALL BLOCKING FOR OWNER PROVIDED TV MONITOR. REFER TO ELECT DWGS.
4	PROVIDE METAL LOCKERS, REFER TO SPECIFICATIONS & TYPICAL DETAIL LOCATED ON SHEET A-540.
5	PROVIDE 14"X48"X72" METAL STORAGE SHELVING UNITS [10 56 13].
6	PROVIDE 18"X42"X72" METAL STORAGE SHELVING UNIT [10 56 13].
7	PROVIDE URINAL SCREEN.
8	PROVIDE HANGING CLOTHES SHELF EQUAL TO ULINE WALL-MOUNTED COAT RACK IN LENGTH INDICATED ON ELEVATIONS.
9	PROVIDE MICROWAVE (A6).
10	PROVIDE STOVE (A7).
11	PROVIDE ADA SINK. REFER TO PLUMBING DRAWINGS.
12	PROVIDE REFRIGERATOR (A1).
13	PROVIDE ICE MACHINE (A5). REFER TO PLUMBING DRAWINGS.
14	PROVIDE 14"X36"X72" METAL STORAGE SHELVING UNITS [10 56 13].
15	PROVIDE FLOOR DRAIN. REFER TO PLUMBING DRAWINGS.
16	PROVIDE METAL ADA LOCKERS, REFER TO SPECIFICATIONS & TYPICAL DETAIL LOCATED ON SHEET A-540.

STATE OF OHIO
THOMAS W. GATES
12169
6-26-25
REGISTERED ARCHITECT

THOMAS W. GATES
ARC.9812169
EXP. 12/31/2025

SPGB Architects
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DESCRIPTION	APP'VD:	DATE:

FIRST FLOOR ENLARGED PLANS

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.
A-102

PROJ NO.: 130012-59

DATE: 6/25/2025

1/16" = 1'-0" | 1/8" = 1'-0" | 3/16" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"

CODED NOTES (X)

1	NO WORK IN AREA AS INDICATED BY SHADED REGION UON
2	EXISTING X-BRACING TO REMAIN. REFER TO FINISH SCHEDULE.
3	FIRE EXTINGUISHER EXISTING TO REMAIN.

STRUCTURAL NOTES

DENOTES NEW 4" NORMAL WEIGH CONCRETE SLAB W/ #3@12" O.C. HORIZ. REINFORCING MAT E.W. CENTERED IN SLAB DEPTH OVER EXPANDED POLYSTRENE INSULATION BLOCKS (EPS-19 GEOFOAM). REINFORCEMENT MAT TO BE POSITIVELY SUPPORTED IN NEW SLAB. EX. RAISED FLOORING TO BE REMOVED. SEE GENERAL NOTES ON S-001 FOR ADDITIONAL INFORMATION RELATED TO CONCRETE CONSTRUCTION. PROVIDE 1'-0" WIDE THICKENED SLAB ALONG PERIMETER AND INSTALL #3@24" O.C. VERTICAL DOWELS INTO EXISTING SLAB USING HILTI HY-200 ADHESIVE. SEE TYPICAL DETAIL ON S-003 FOR ADDITIONAL INFORMATION.

(#) SEE PHOTO # ON S-501 FOR ADDITIONAL INFORMATION.

LL DENOTES LOOSE LINTEL. SEE S-001 FOR ADDITIONAL INFORMATION.

GENERAL NOTES

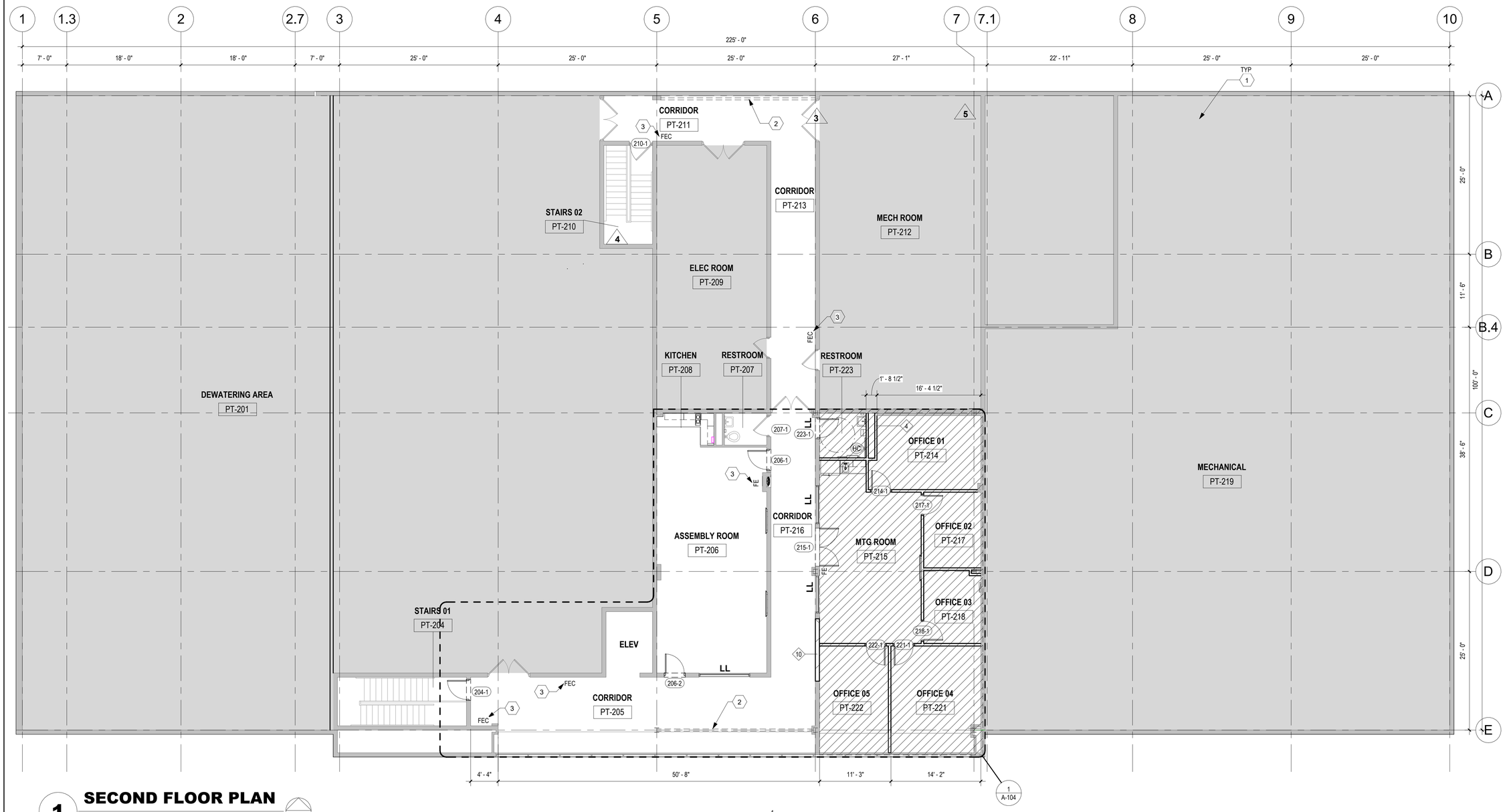
A. INTERIOR PARTITIONS ARE TYPE 1 UON. REFER TO SHEET A-520 FOR PARTITION TYPES.

B. REFER TO SHEET A-601 FOR INTERIOR BORROW LIGHT ELEVATIONS.

C. REFER TO SHEET A-001 FOR FIXTURE MOUNTING HEIGHTS AND TYPES.

D. COORDINATE ALL FLOOR DRAIN LOCATIONS WITH PLUMBING DRAWINGS. (FD)

A-201 / 2



1 SECOND FLOOR PLAN

1/8" = 1'-0"

N

STATE OF OHIO
THOMAS W. GATES
12169
6-26-25
REGISTERED ARCHITECT

THOMAS W. GATES
ARC.9812169
EXP. 12/31/2025

SPGB Architects
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'VD:	DATE:

SECOND FLOOR PLAN

Eastern Regional Water Reclamation Facility Operations Building Renovation

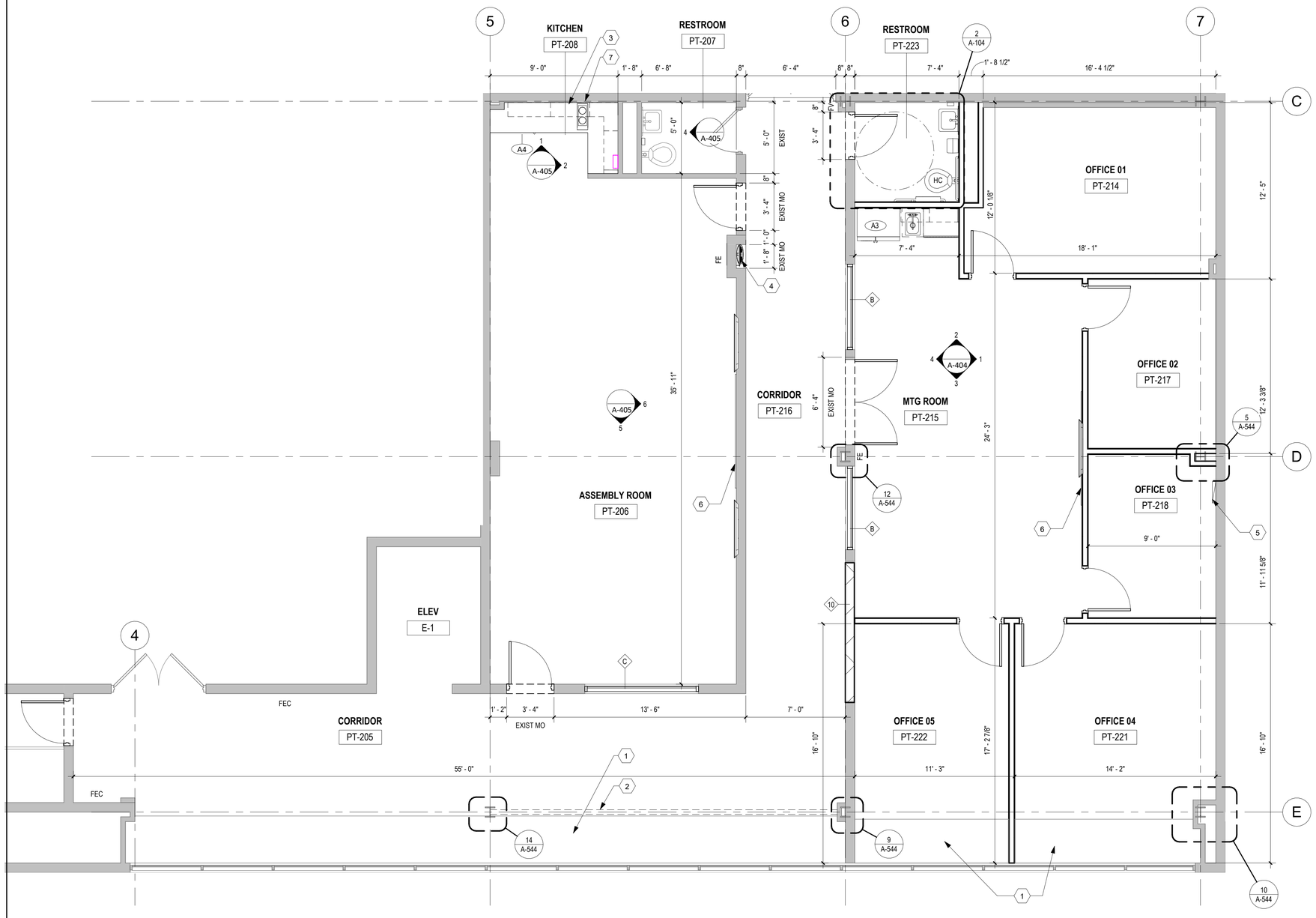
SHEET NO.

A-103

PROJ NO.: 130012-59

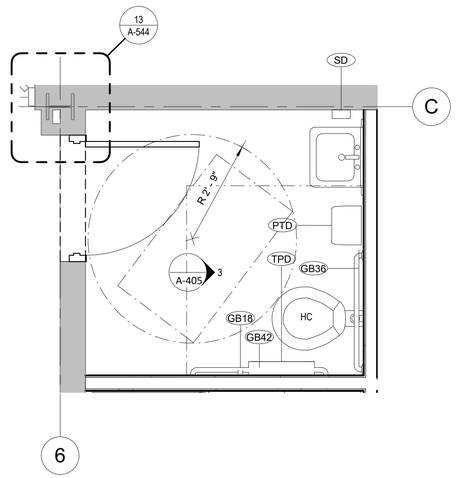
DATE: 6/25/2025

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



1 SECOND FLOOR ENLARGED PLAN

1/4" = 1'-0"



2 ENLARGED RR PLAN

1/2" = 1'-0"

GENERAL NOTES

A. INTERIOR PARTITIONS ARE TYPE 1 UON. REFER TO SHEET A-520 FOR PARTITION TYPES.

B. REFER TO SHEET A-601 FOR INTERIOR BORROW LIGHT ELEVATIONS.

C. REFER TO SHEET A-001 FOR FIXTURE MOUNTING HEIGHTS AND TYPES.

D. COORDINATE ALL FLOOR DRAIN LOCATIONS WITH PLUMBING DRAWINGS. (FD)

FIXTURE SCHEDULE

TAG	DESCRIPTION	REMARKS
C1	LAB CART	BY OWNER
CS	CUSTODIAL SHELF	
GB18	18" GRAB BAR	VERTICAL
GB36	36" GRAB BAR	
GB42	42" GRAB BAR	
GB48	48" GRAB BAR	
M1	18" X 36" MIRROR	
PTD	PAPER TOWEL DISPENSER	
SC1	SHOWER CURTAIN & ROD	36" X 60" SHOWER STALL
SC2	SHOWER CURTAIN & ROD	68" X 60" ADA SHOWER STALL
SD	SOAP DISPENSER	
SND	SANITARY NAPKIN DISPOSAL	
TH	TOWEL HOOK	
TPD	TOILET PAPER DISPENSER	

CODED NOTES (X)

1	PROVIDE SS-1 COUNTERTOP
2	EXISTING X-BRACING TO REMAIN. REFER TO FINISH SCHEDULE.
3	ROUTE WATER LINE FOR COFFEE MAKER WITHIN CABINETS, REFER TO PLUMBING DWGS.
4	PROVIDE BOTTLE FILLER, REFER TO PLUMBING DWGS
5	EXISTING RECESSED ELECTRICAL PANEL TO REMAIN.
6	PROVIDE 4' X 8' MARKERBOARD
7	PROVIDE COFFEE MAKER (A8).

STATE OF OHIO
THOMAS W. GATES
12169
6-26-25
REGISTERED ARCHITECT

THOMAS W. GATES
ARC.9812169
EXP. 12/31/2025

SPGB Architects
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'D:	DATE:

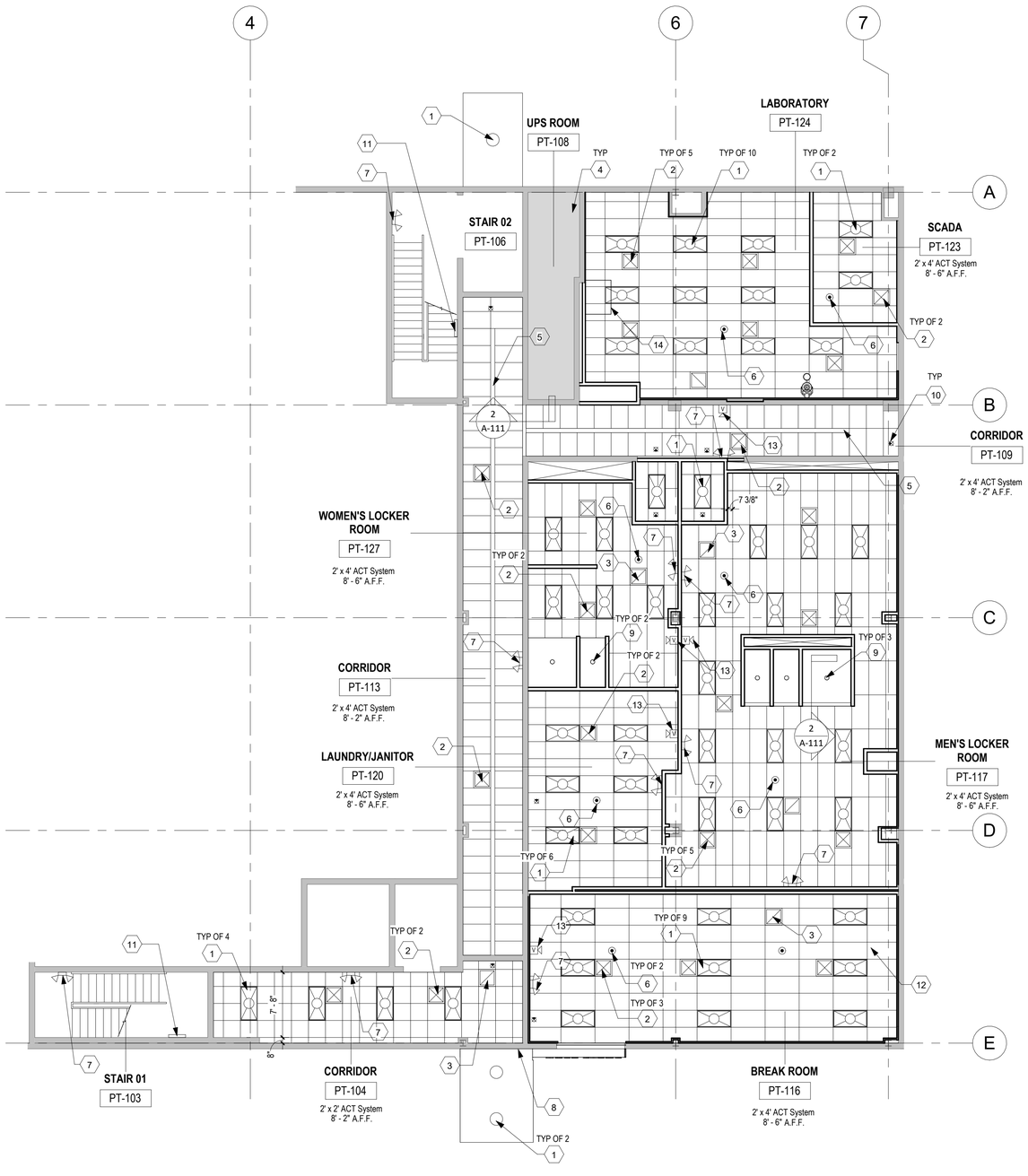
SECOND FLOOR ENLARGED PLANS

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.
A-104

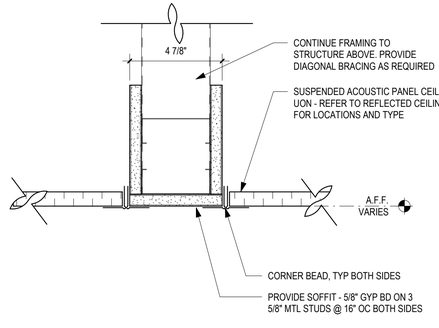
PROJ NO.: 130012-59
DATE: 6/25/2025

1/16" = 1'-0" | 1/8" = 1'-0" | 3/16" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"



1 FIRST FLOOR PARTIAL RCP

1/8" = 1'-0"



2 DET - BULK HEAD SOFFIT

3" = 1'-0"

GENERAL NOTES

A. VERIFY QUANTITIES AND SIZE OF ALL MECHANICAL, ELECTRICAL AND FIRE PROTECTION EQUIPMENT SHOWN ON THE REFLECTED CEILING PLANS WITH RESPECTIVE MECHANICAL, ELECTRICAL AND FIRE PROTECTION CONTRACT DRAWINGS AND SPECIFICATIONS.

B. VERIFY ALL FINISHES WITH FINISH SCHEDULE. REPORT ANY DISCREPANCIES TO A/E PRIOR TO WORK.

C. LOCATED ALL MECHANICAL AND ELECTRICAL FIXTURES WHICH EXIST IN CEILING AS CLOSE AS POSSIBLE TO THE CONFIGURATION SHOWN. THE INTENT IS TO PROVIDE A UNIFORM AND SYMMETRICAL LAYOUT WITHIN EACH ROOM OR SPACE. THESE LOCATIONS ARE SUBJECTED TO FIELD VERIFICATION AND A/E APPROVAL.

D. PROVIDE METAL CEILING TRIM AT ALL INTERSECTION WITH VAC DUCTS, ELECTRICAL CONDUITS, AND ALL OTHER CEILING PENETRATIONS.

E. PROVIDE METAL CEILING TRIM AT ALL COLUMN PENETRATIONS.

F. ALL ACT CEILING TILE MIN. OF 6-INCHES WIDE AT EDGE OF ROOM.

G. ALL MECHANICAL LOUVERS TO MATCH FINISH COLOR OF CEILING TILE AS SPECIFIED.

RCP SYMBOLS LEGEND

- LAY-IN CEILING GRID (SEE ROOM FINISH SCHEDULE A-000)
- GYPSUM BOARD CEILING
- LED LIGHT FIXTURE IN GRID
- RECESSED LIGHT FIXTURE (WET RATED)
- SUPPLY DIFFUSER
- RETURN DIFFUSER
- 1i 1'-0" A.F.F. — CEILING TAG WITH FINISH HEIGHT
- EXIT LIGHTING FIXTURE
- EMERGENCY EGRESS LIGHT FIXTURE
- LED LIGHT PENDANT FIXTURE
- OCCUPANCY SENSOR
- AUDIO / VISUAL FIRE ALARM DEVICE

CODED NOTES (X)

1	PROVIDE LIGHT. REFER TO MEP DWGS
2	PROVIDE SUPPLY AIR DIFFUSER. REFER TO MEP DWGS
3	PROVIDE RETURN AIR DIFFUSER. REFER TO MEP DWGS
4	NO WORK IN AREA AS INDICATED BY SHADED REGION UON
5	PROVIDE 6" RECESSED TRACK LIGHTING. REFER TO MEP DWGS
6	PROVIDE CEILING MOUNTED OCCUPANCY SENSOR, REFER TO MEP DWGS
7	PROVIDE EMERGENCY EGRESS LIGHT. REFER TO MEP DWGS
8	PROVIDE SCONCE LIGHT FIXTURE, REFER TO MEP DWGS
9	PROVIDE RECESSED WET LIGHT, REFER TO MEP DWGS
10	PROVIDE EMERGENCY EXIT SIGN. REFER TO ELECTRICAL DWGS
11	PROVIDE PENDANT LIGHT, REFER TO MEP DWGS
12	PROVIDE KITCHEN HOOD, REFER TO MEP DWGS
13	REINSTALL EXIST AUDIO / VISUAL FIRE ALARM DEVICE, REFER TO MEP DWGS
14	PROVIDE FUME HOOD ENCLOSURE, REFER TO Q-SERIES.

KEY PLAN



1

STATE OF OHIO — THOMAS W. GATES — 12169 — 6-26-25 — REGISTERED ARCHITECT

THOMAS W. GATES
ARC.9812169
EXP. 12/31/2025

SPGB Architects
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DESCRIPTION	DATE	APP'D:	DATE:

FIRST FLOOR REFLECTED CEILING PLAN

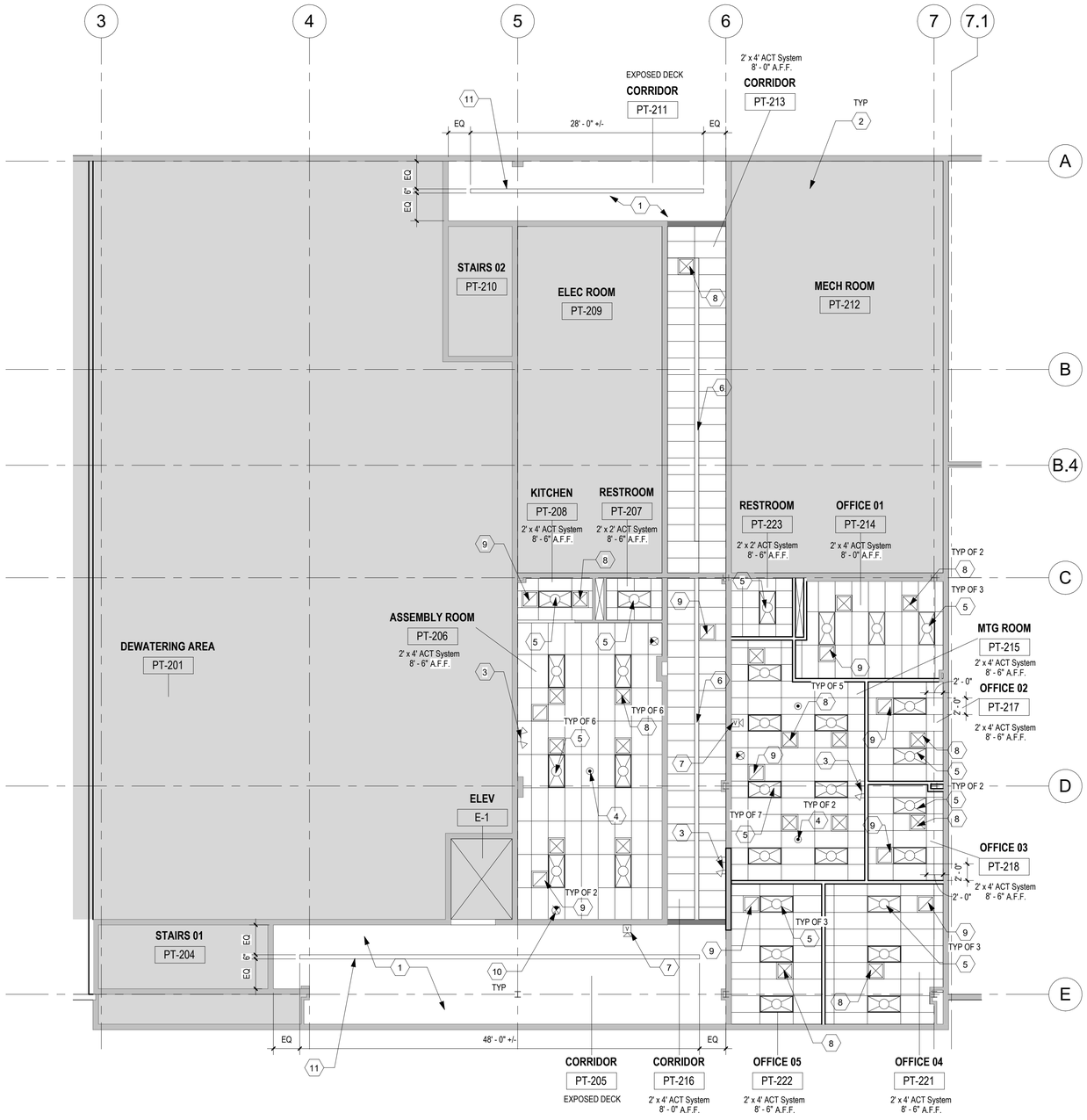
Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO. A-111

PROJ NO.: 130012-59

DATE: 6/25/2025

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 1'
6" = 1'-0" 0 1" 2" 3" 6"



1 SECOND FLOOR PARTIAL RCP

1/8" = 1'-0"

N

GENERAL NOTES

A. VERIFY QUANTITIES AND SIZE OF ALL MECHANICAL, ELECTRICAL AND FIRE PROTECTION EQUIPMENT SHOWN ON THE REFLECTED CEILING PLANS WITH RESPECTIVE MECHANICAL, ELECTRICAL AND FIRE PROTECTION CONTRACT DRAWINGS AND SPECIFICATIONS.

B. VERIFY ALL FINISHES WITH FINISH SCHEDULE. REPORT ANY DISCREPANCIES TO A/E PRIOR TO WORK.

C. LOCATED ALL MECHANICAL AND ELECTRICAL FIXTURES WHICH EXIST IN CEILING AS CLOSE AS POSSIBLE TO THE CONFIGURATION SHOWN. THE INTENT IS TO PROVIDE A UNIFORM AND SYMMETRICAL LAYOUT WITHIN EACH ROOM OR SPACE. THESE LOCATIONS ARE SUBJECTED TO FIELD VERIFICATION AND A/E APPROVAL.

D. PROVIDE METAL CEILING TRIM AT ALL INTERSECTION WITH VAC DUCTS, ELECTRICAL CONDUITS, AND ALL OTHER CEILING PENETRATIONS.

E. PROVIDE METAL CEILING TRIM AT ALL COLUMN PENETRATIONS.

F. ALL ACT CEILING TILE MIN. OF 6-INCHES WIDE AT EDGE OF ROOM.

G. ALL MECHANICAL LOUVERS TO MATCH FINISH COLOR OF CEILING TILE AS SPECIFIED.

RCP SYMBOLS LEGEND

- LAY-IN CEILING GRID (SEE ROOM FINISH SCHEDULE A-000)
- GYPSUM BOARD CEILING
- LED LIGHT FIXTURE IN GRID
- RECESSED LIGHT FIXTURE (WET RATED)
- SUPPLY DIFFUSER
- RETURN DIFFUSER
- 1i / 1'-0" A.F.F. — CEILING TAG WITH FINISH HEIGHT
- EXIT LIGHTING FIXTURE
- EMERGENCY EGRESS LIGHT FIXTURE
- LED LIGHT PENDANT FIXTURE
- OCCUPANCY SENSOR
- AUDIO / VISUAL FIRE ALARM DEVICE

CODED NOTES (X)

1	EXISTING EXPOSED STRUCTURE & DECK TO REMAIN. PAINT P-2B.
2	NO WORK IN AREA AS INDICATED BY SHADED REGION UON
3	PROVIDE EMERGENCY EGRESS LIGHT. REFER TO MEP DWGS
4	PROVIDE CEILING MOUNTED OCCUPANCY SENSOR, REFER TO MEP DWGS
5	PROVIDE LIGHT. REFER TO MEP DWGS
6	PROVIDE 6" RECESSED TRACK LIGHTING. REFER TO MEP DWGS
7	REINSTALL EXIST AUDIO / VISUAL FIRE ALARM DEVICE, REFER TO MEP DWGS
8	PROVIDE SUPPLY AIR DIFFUSER. REFER TO MEP DWGS
9	PROVIDE RETURN AIR DIFFUSER. REFER TO MEP DWGS
10	PROVIDE EMERGENCY EXIT SIGN. REFER TO ELECTRICAL DWGS
11	PROVIDE SUSPENDED LINEAR LIGHT FIXTURE. REFER TO MEP DWGS

KEY PLAN



2

STATE OF OHIO
THOMAS W. GATES
12169
6-26-25
REGISTERED ARCHITECT

THOMAS W. GATES
ARC.9812169
EXP. 12/31/2025

SPGB Architects
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'VD:	DATE:

SECOND FLOOR REFLECTED CEILING PLAN

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.
A-112

PROJ NO.: 130012-59
DATE: 6/25/2025

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"

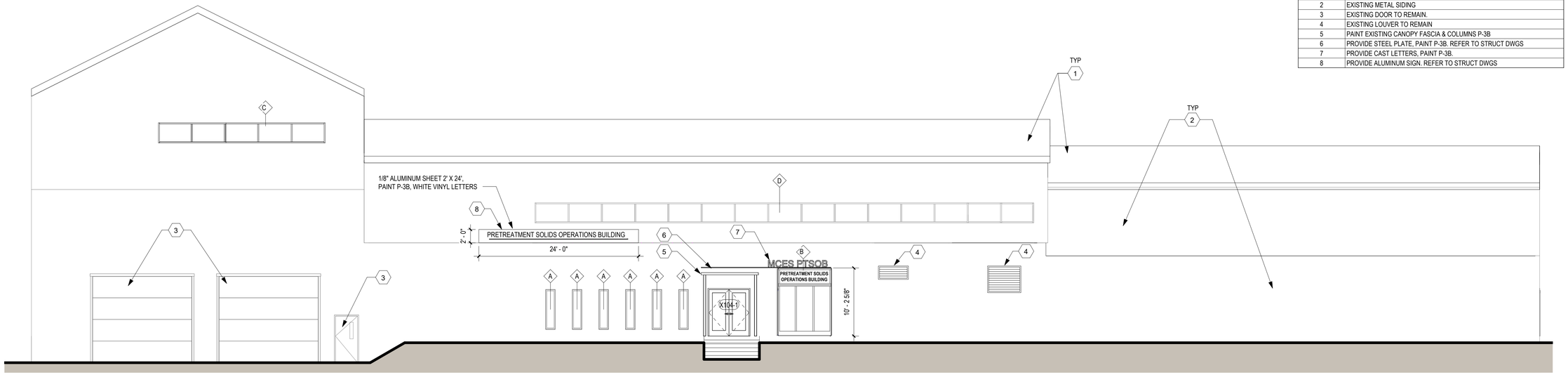
GENERAL NOTES

A. REFER TO WINDOW TYPES ON SHEET A-610.

B. SEAL ALL EXTERIOR JOINTS.

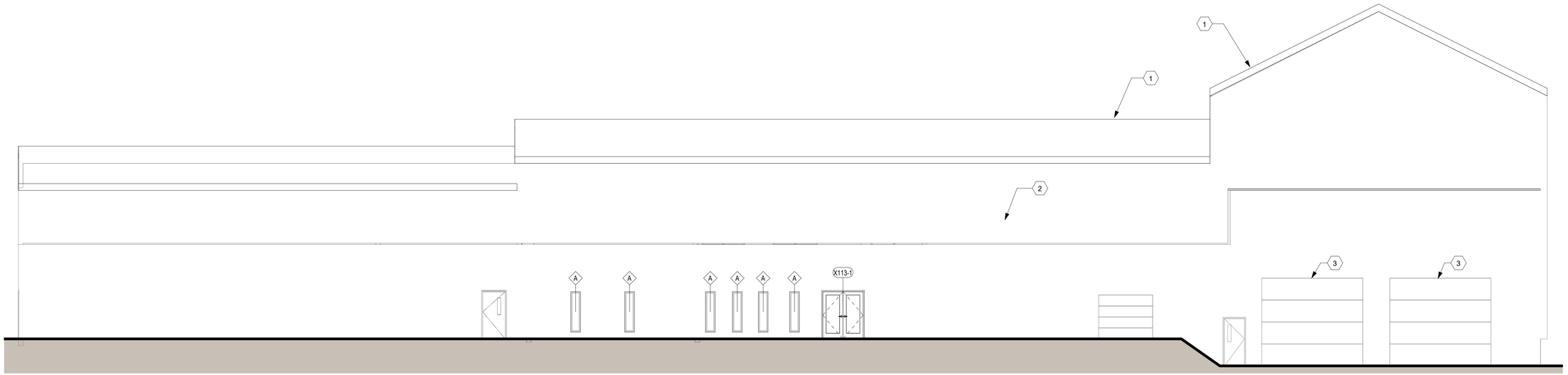
CODED NOTES (X)

1	EXISTING METAL ROOF
2	EXISTING METAL SIDING
3	EXISTING DOOR TO REMAIN.
4	EXISTING LOUVER TO REMAIN
5	PAINT EXISTING CANOPY FASCIA & COLUMNS P-3B
6	PROVIDE STEEL PLATE, PAINT P-3B. REFER TO STRUCT DWGS
7	PROVIDE CAST LETTERS, PAINT P-3B.
8	PROVIDE ALUMINUM SIGN. REFER TO STRUCT DWGS



1 ELEV - SOUTH EXTERIOR

1/8" = 1'-0"



2 ELEV - NORTH EXTERIOR

1/8" = 1'-0"

STATE OF OHIO
THOMAS W. GATES
12169
6-26-25
REGISTERED ARCHITECT

THOMAS W. GATES

ARC.9812169

EXP. 12/31/2025

SPGB Architects
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'VD:	DATE:

EXTERIOR BUILDING ELEVATIONS

Eastern Regional Water Reclamation Facility Operations Building Renovation

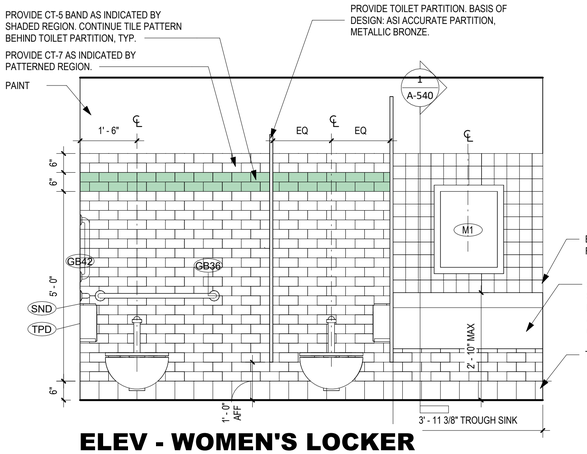
SHEET NO.

A-201

PROJ NO.: 130012-59

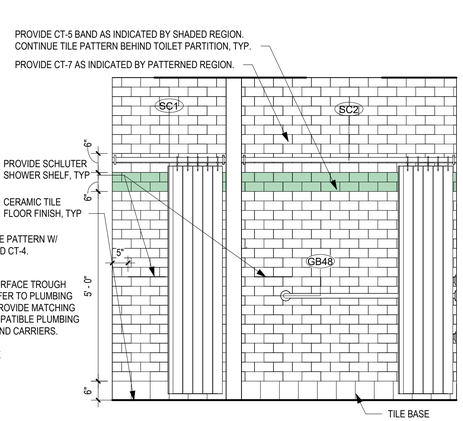
DATE: 6/25/2025

1/16" = 1'-0" 0 4" 8" 16'
1/8" = 1'-0" 0 2" 4" 8'
3/16" = 1'-0" 0 2" 4" 8"
1/4" = 1'-0" 0 1" 2" 4"
3/8" = 1'-0" 0 1" 2" 4"
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



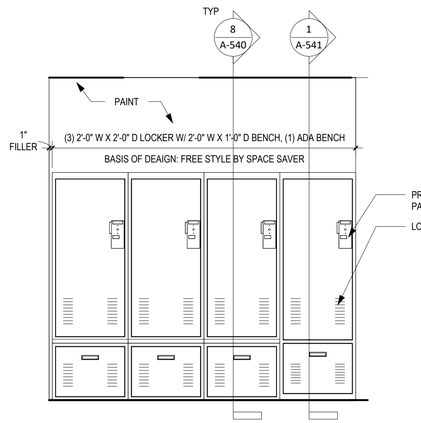
ELEV - WOMEN'S LOCKER RM PT-127 - RESTROOM

1 — 1/2" = 1'-0"



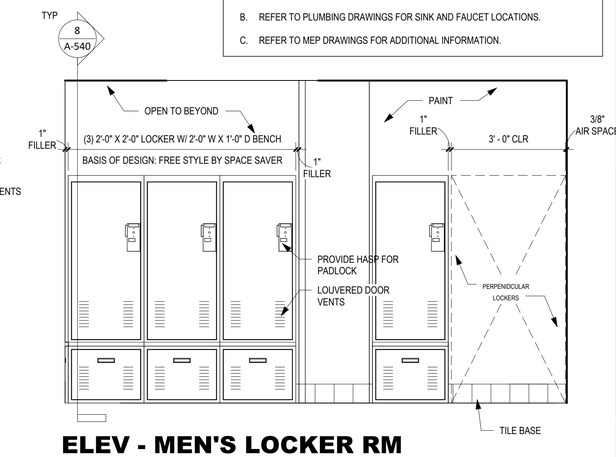
ELEV - WOMEN'S LOCKER RM PT-127 - SHOWERS

2 — 1/2" = 1'-0"



ELEV - WOMEN'S LOCKER PT-127 RM - LOCKERS

3 — 1/2" = 1'-0"



ELEV - MEN'S LOCKER RM PT-117 - LOCKERS EAST

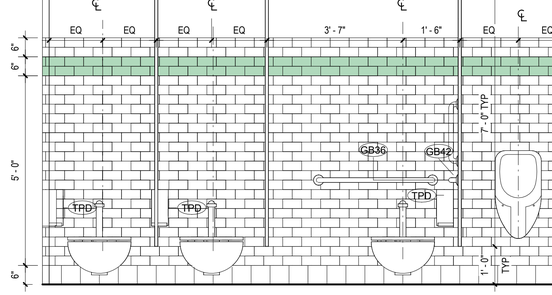
4 — 1/2" = 1'-0"

GENERAL NOTES

A. REFER TO SHEET A-102 FOR FIXTURE SCHEDULE.

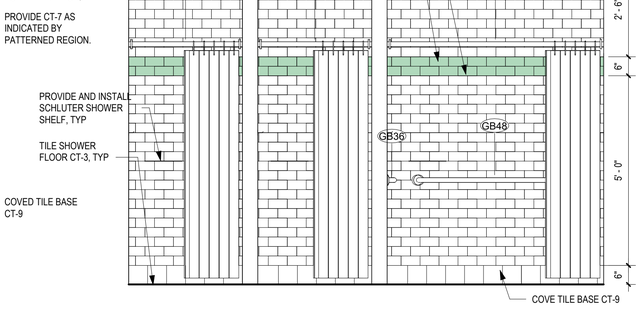
B. REFER TO PLUMBING DRAWINGS FOR SINK AND FAUCET LOCATIONS.

C. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION.



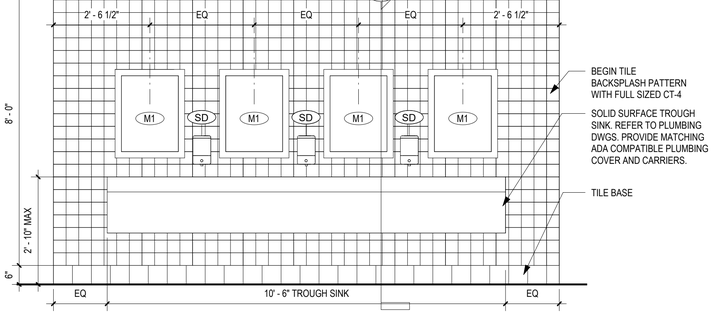
ELEV - MEN'S LOCKER RM PT-117 - RESTROOM NORTH

5 — 1/2" = 1'-0"



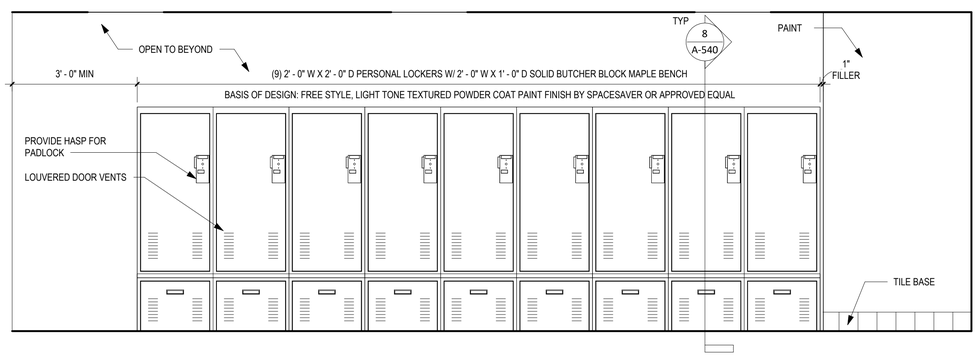
ELEV - MEN'S LOCKER RM PT-117 - SHOWERS

6 — 1/2" = 1'-0"



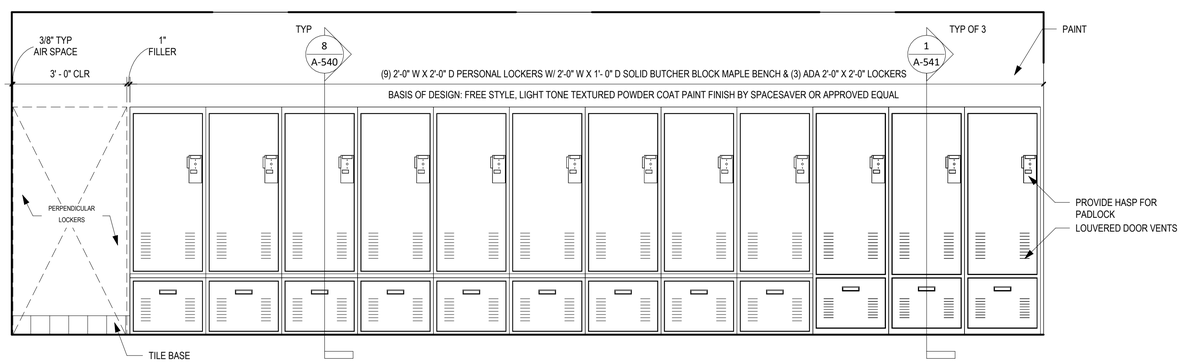
ELEV - MEN'S LOCKER RM PT-117 - RESTROOM SOUTH

7 — 1/2" = 1'-0"



ELEV - MEN'S LOCKER ROOM PT-117 - LOCKERS NORTH

8 — 1/2" = 1'-0"



ELEV - MEN'S LOCKER ROOM PT-117 - LOCKERS SOUTH

9 — 1/2" = 1'-0"

STATE OF OHIO — THOMAS W. GATES — 12109 — 6-26-25 — REGISTERED ARCHITECT

THOMAS W. GATES
ARC.9812169
EXP. 12/31/2025

SPGB Architects
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

No.	DATE	DESCRIPTION	APP'VD.

SUBMITTAL/REVISION RECORD

FIRST FLOOR INTERIOR ELEVATIONS

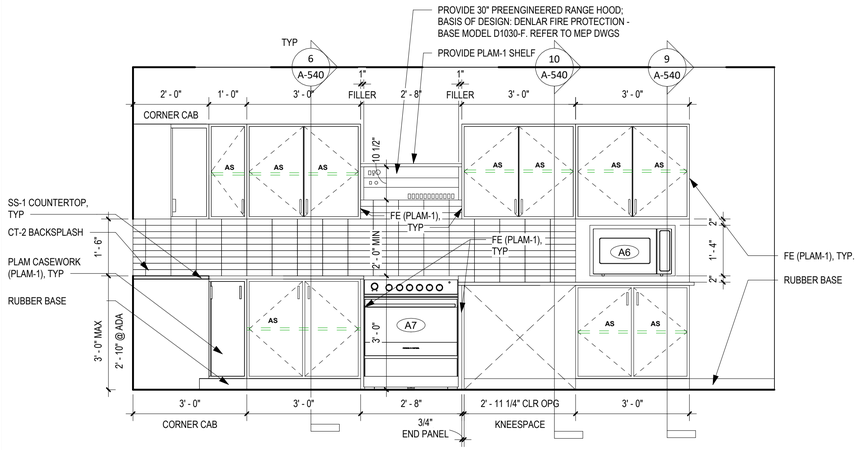
Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.
A-401

PROJ NO.: 130012-59

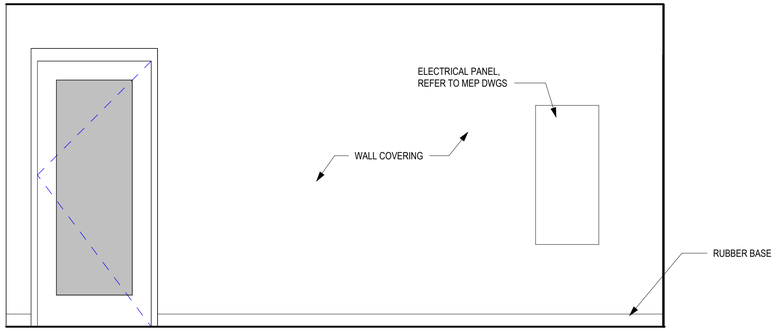
DATE: 6/25/2025

1/16" = 1'-0" | 1/8" = 1'-0" | 3/16" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"



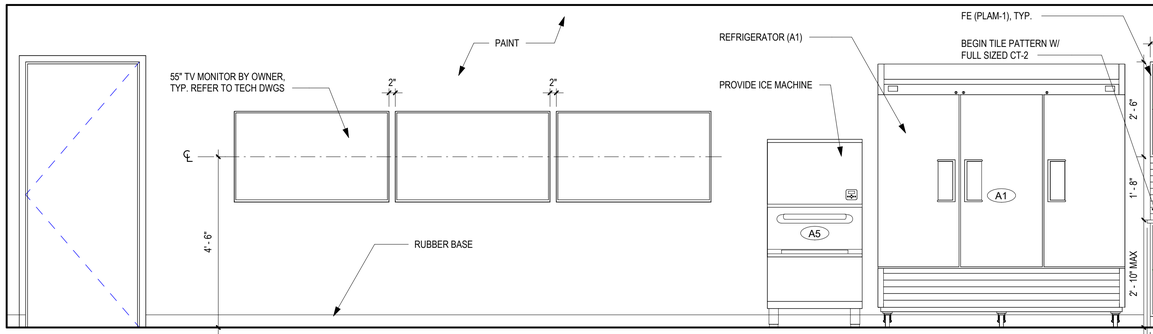
1 ELEV - BREAK ROOM PT-116 - EAST

1/2" = 1'-0"



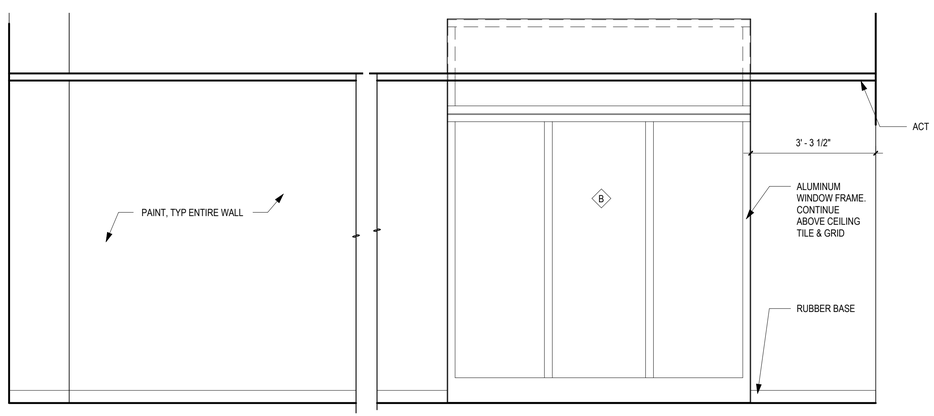
2 ELEV - BREAK ROOM PT-116 - WEST

1/2" = 1'-0"



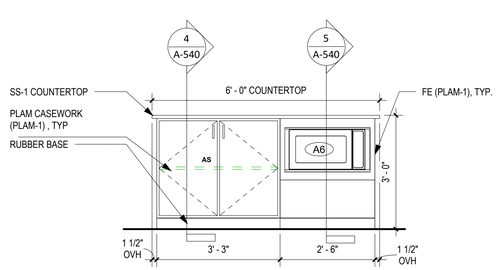
3 ELEV - BREAK ROOM PT-116 - NORTH

1/2" = 1'-0"



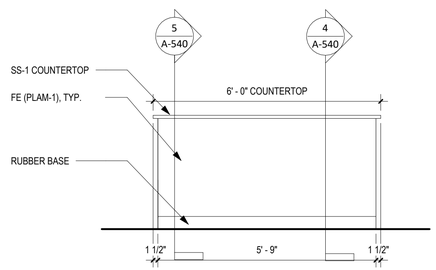
4 ELEV - BREAK ROOM PT-116 - SOUTH

1/2" = 1'-0"



5 ELEV - BREAK ROOM PT-116 - ISLAND WEST

1/2" = 1'-0"



6 ELEV - BREAK ROOM PT-116 - ISLAND EAST

1/2" = 1'-0"

GENERAL NOTES

A. REFER TO SHEET A-102 FOR FIXTURE SCHEDULE.

B. REFER TO PLUMBING DRAWINGS FOR SINK AND FAUCET LOCATIONS.

C. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION.

STATE OF OHIO
THOMAS W. GATES
12169
6-26-25
REGISTERED ARCHITECT

THOMAS W. GATES
ARC.9812169
EXP. 12/31/2025

SPGB Architects
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'VD:	DATE:

FIRST FLOOR INTERIOR ELEVATIONS CONT.

Eastern Regional Water Reclamation Facility Operations Building Renovation

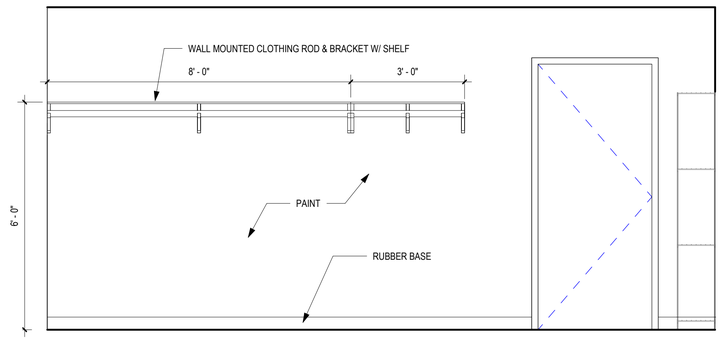
SHEET NO.

A-402

PROJ NO.: 130012-59

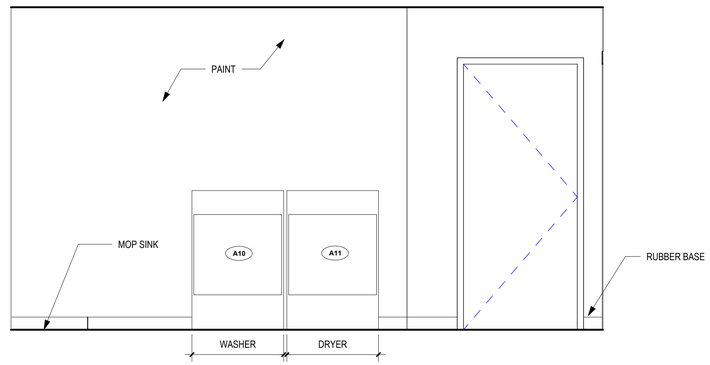
DATE: 6/25/2025

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



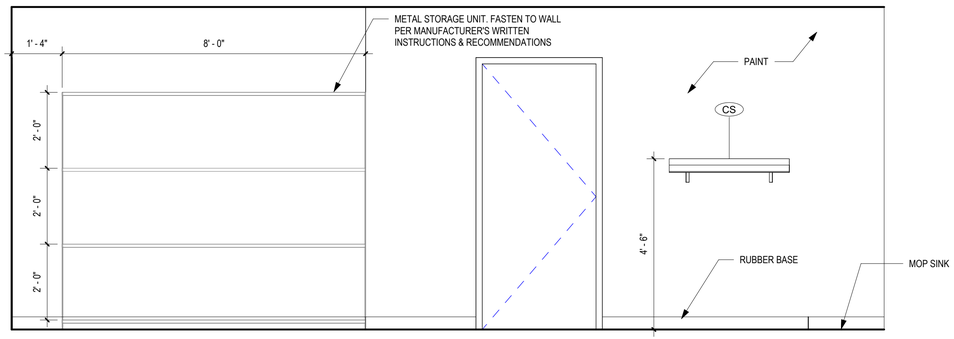
1 ELEV - LAUNDRY/JANITOR ROOM PT-120 - NORTH

1/2" = 1'-0"



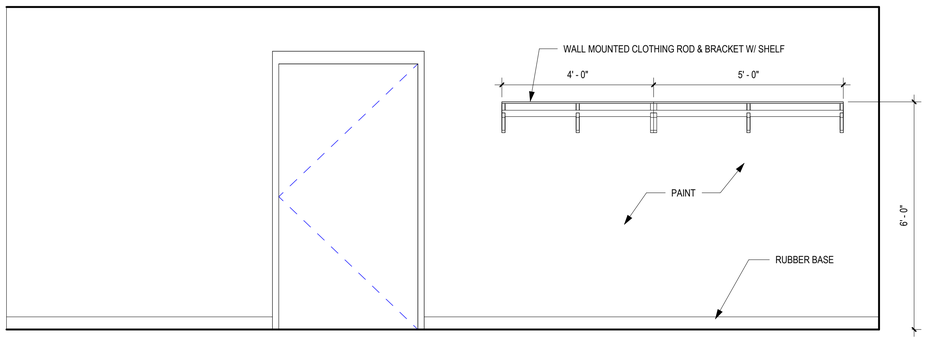
2 ELEV - LAUNDRY/JANITOR ROOM PT-120 - SOUTH

1/2" = 1'-0"



3 ELEV - LAUNDRY/JANITOR ROOM PT-120 - EAST

1/2" = 1'-0"



4 ELEV - LAUNDRY/JANITOR ROOM PT-120 - WEST

1/2" = 1'-0"

NOT FOR CONSTRUCTION

SPGB Architects
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8863

DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

DATE:
REVISIONS:

Eastern Regional Water Reclamation Facility
Operations Building Renovation
1801 MORSE ROAD, COLUMBUS, OH

FIRST FLOOR INTERIOR ELEVATIONS CONT.

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

A-403

JOB NO.: 24009
DATE: 6/25/2025

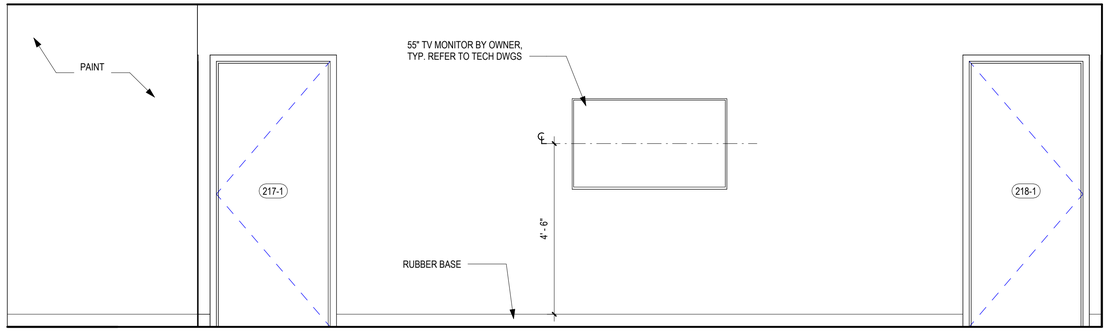
1/16" = 1'-0" | 1/8" = 1'-0" | 3/16" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"

GENERAL NOTES

A. REFER TO SHEET A-102 FOR FIXTURE SCHEDULE.

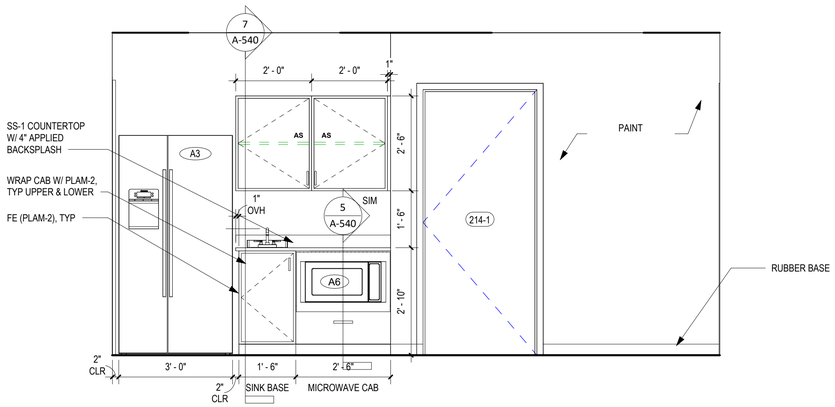
B. REFER TO PLUMBING DRAWINGS FOR SINK AND FAUCET LOCATIONS.

C. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION.



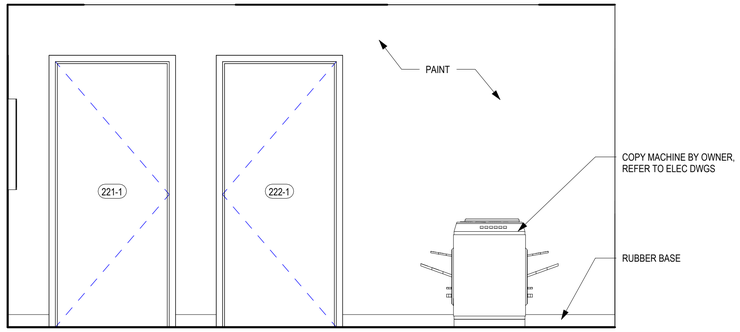
1 ELEV - MEETING ROOM PT-215 - EAST

1/2" = 1'-0"



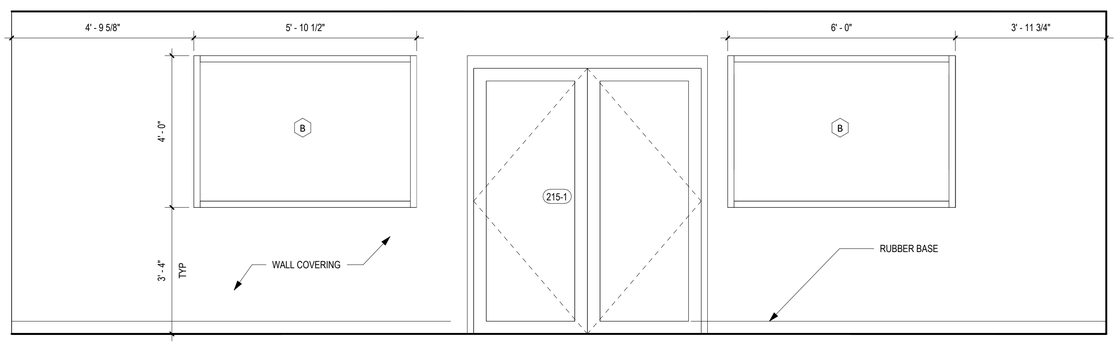
2 ELEV - MEETING ROOM PT-215 - NORTH

1/2" = 1'-0"



3 ELEV - MEETING ROOM PT-215 - SOUTH

1/2" = 1'-0"



4 ELEV - MEETING ROOM PT-215 - WEST

1/2" = 1'-0"

STATE OF OHIO
THOMAS W. GATES
12169
6-26-25
REGISTERED ARCHITECT

THOMAS W. GATES
ARC.9812169
EXP. 12/31/2025

SPGB Architects
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DESCRIPTION	DATE	APP'VD:	DATE:

SECOND FLOOR INTERIOR ELEVATIONS

Eastern Regional Water Reclamation Facility Operations Building Renovation

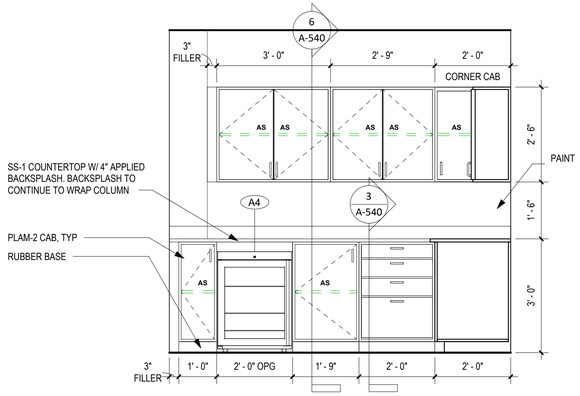
SHEET NO.

A-404

PROJ NO.: 130012-59

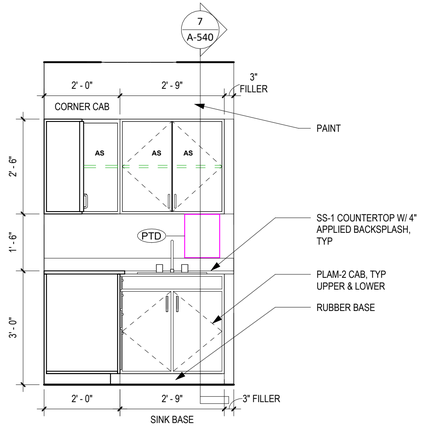
DATE: 6/25/2025

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



ELEV - KITCHEN PT-208 - NORTH

1 1/2" = 1'-0"



ELEV - KITCHEN PT-208 - EAST

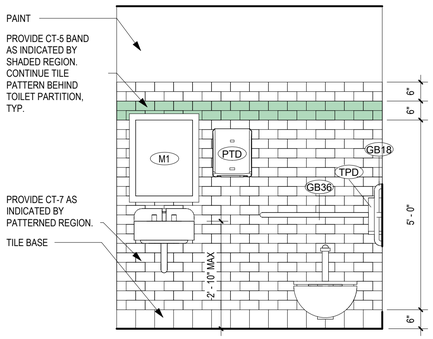
2 1/2" = 1'-0"

GENERAL NOTES

A. REFER TO SHEET A-102 FOR FIXTURE SCHEDULE.

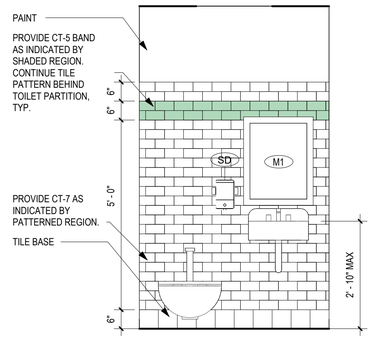
B. REFER TO PLUMBING DRAWINGS FOR SINK AND FAUCET LOCATIONS.

C. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION.



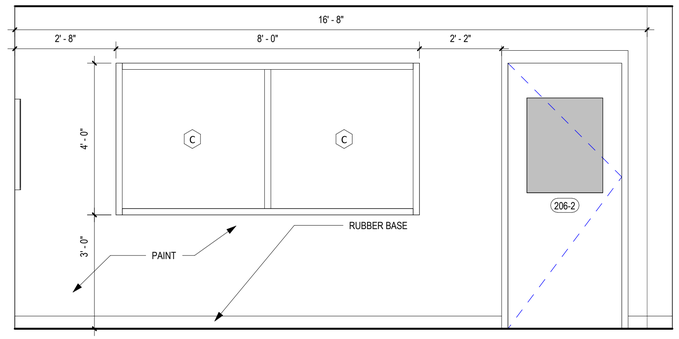
ELEV - RESTROOM PT-223

3 1/2" = 1'-0"



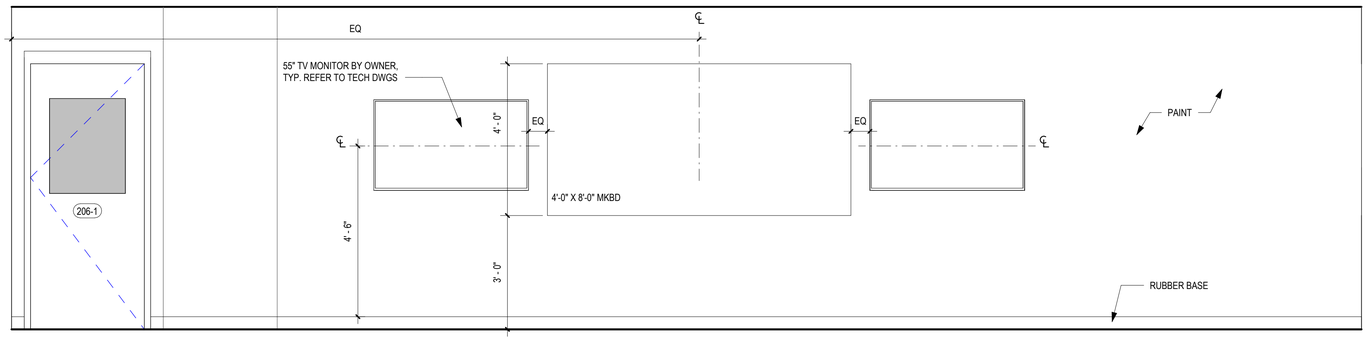
ELEV - RESTROOM PT-207

4 1/2" = 1'-0"



ELEV - ASSEMBLY ROOM PT-206 - SOUTH

5 1/2" = 1'-0"



ELEV - ASSEMBLY ROOM PT-206 - EAST

6 1/2" = 1'-0"

STATE OF OHIO
THOMAS W. GATES
12169
6-26-25
REGISTERED ARCHITECT

THOMAS W. GATES
ARC.9812169
EXP. 12/31/2025

SPGB Architects
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD			
No.	DATE	DESCRIPTION	APP'VD.	DATE:

SECOND FLOOR INTERIOR ELEVATIONS CONT.

Eastern Regional Water Reclamation Facility Operations Building Renovation

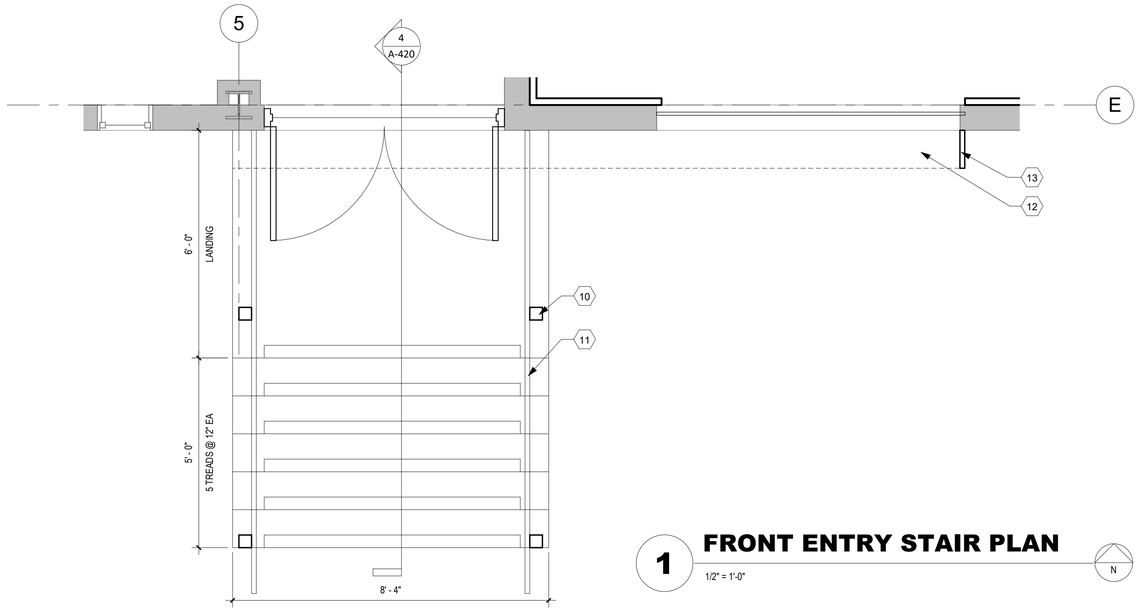
SHEET NO.

A-405

PROJ NO.: 130012-59

DATE: 6/25/2025

1/16" = 1'-0" 0 4" 8" 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"

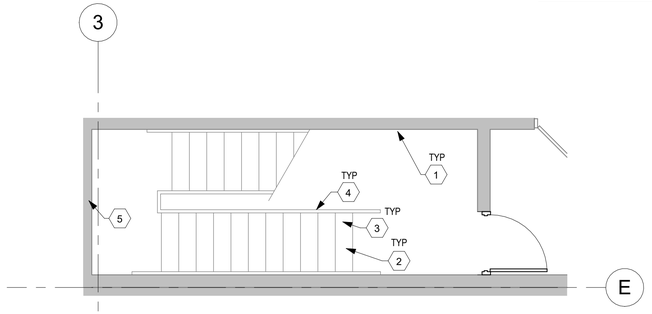


1 FRONT ENTRY STAIR PLAN

1/2" = 1'-0"

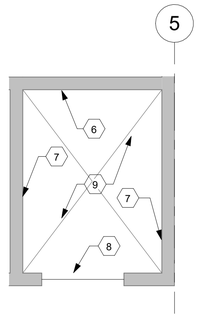
CODED NOTES (X)

1	PAINT STAIRWELL CMU WALLS, EXPOSED CEILING, & ALL EXPOSED METAL STAIR STRUCTURE P-1B.
2	PAINT STAIR RISERS P-2B.
3	EXISTING CONCRETE STAIR TREADS TO REMAIN. CLEAN & RESEAL CONCRETE.
4	PAINT EXISTING HANDRAIL P-3B.
5	PROVIDE NEW STAIRWELL LIGHTING. REFER TO ELECTRICAL DWGS.
6	APPLY ARCHITECTURAL FILM TO ELEVATOR WALL WC-4.
7	APPLY ARCHITECTURAL FILM TO ELEVATOR WALL WC-5.
8	BEGIN FLOOR PATTERN W/ FULL SIZED LVT-1D.
9	PROVIDE REPLACEMENT ELEVATOR CEILING & LED LIGHTS BY APPROVED ELEVATOR CONTRACTOR. CONTACT OWNER'S SERVICE CONTRACT REPRESENTATIVE FROM OTIS FOR CEILING UPGRADE.
10	EXISTING AWNING POST TO REMAIN, TYP OF 4. PAINT TO MATCH HANDRAIL. PROVIDE POST BRACKET AT THE BASE & SECURE TO CONCRETE STEPS.
11	PROVIDE 1 1/2" HANDRAIL, TYP BOTH SIDES.
12	PROVIDE HORIZONTAL STEEL PLATE, EPOXY PAINT PER [099114]. REFER TO STRUCTURAL DWGS FOR ATTACHMENT DETAILS. PROVIDE SEALANT & METAL TRIM @ SIDING PENETRATIONS, PAINT TO MATCH EXISTING SIDING.
13	PROVIDE VERTICAL STEEL PLATE, EPOXY PAINT PER [099114]. REFER TO STRUCTURAL DWGS FOR ATTACHMENT DETAILS. PROVIDE SEALANT & METAL TRIM @ SIDING PENETRATIONS, PAINT TO MATCH EXISTING SIDING.



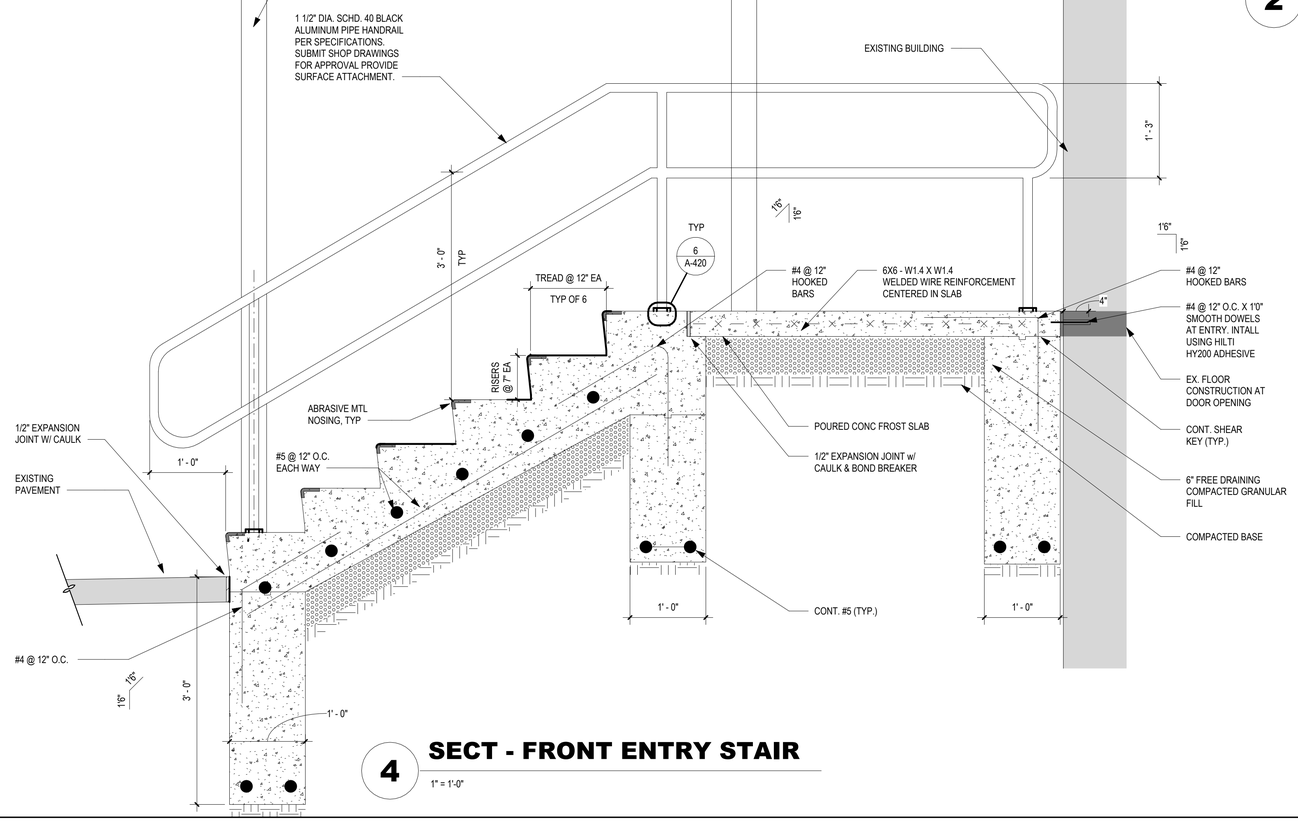
2 STAIR 01 PLAN

1/4" = 1'-0"



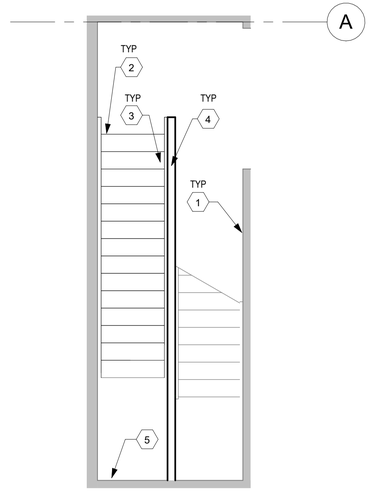
3 ELEVATOR PLAN

1/4" = 1'-0"



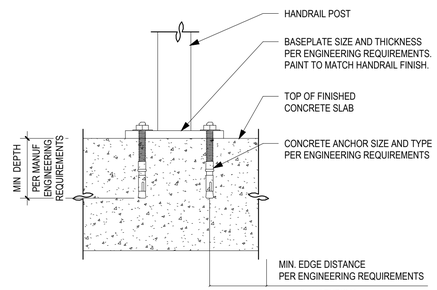
4 SECT - FRONT ENTRY STAIR

1" = 1'-0"



5 STAIR 02 PLAN

1/4" = 1'-0"



6 DET - TYP POST ANCHOR

1 1/2" = 1'-0"

STATE OF OHIO
THOMAS W. GATES
12169
6-26-25
REGISTERED ARCHITECT

THOMAS W. GATES
ARC.9812169
EXP. 12/31/2025

SPGB Architects
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'VD:	DATE:

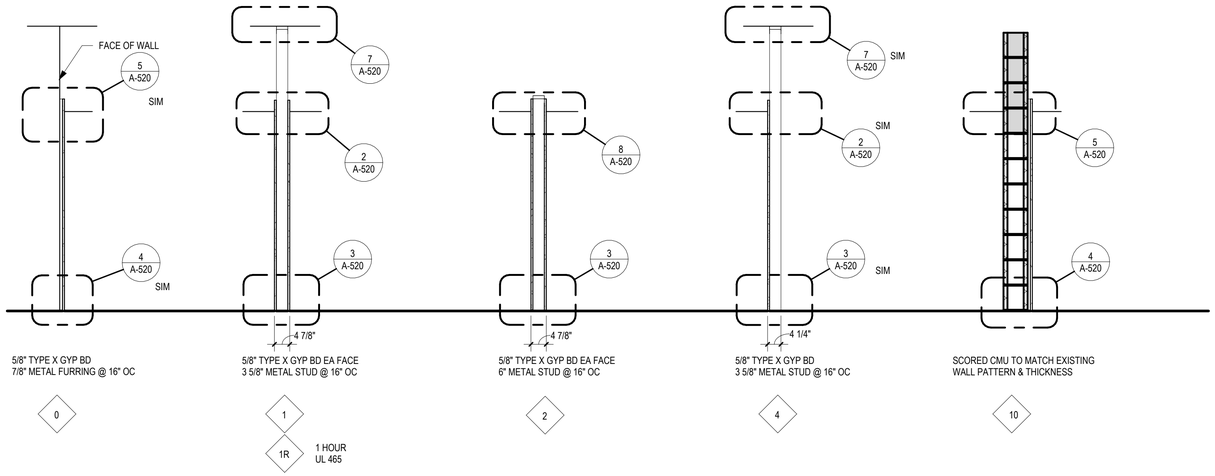
VERTICAL CIRCULATION STAIR PLANS & SECTIONS

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.
A-420

PROJ NO.: 130012-59
DATE: 6/25/2025

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



5/8" TYPE X GYP BD
7/8" METAL FURRING @ 16" OC

0

5/8" TYPE X GYP BD EA FACE
3 5/8" METAL STUD @ 16" OC

1

1R 1 HOUR UL 465

5/8" TYPE X GYP BD EA FACE
6" METAL STUD @ 16" OC

2

5/8" TYPE X GYP BD
3 5/8" METAL STUD @ 16" OC

4

SCORED CMU TO MATCH EXISTING
WALL PATTERN & THICKNESS

10

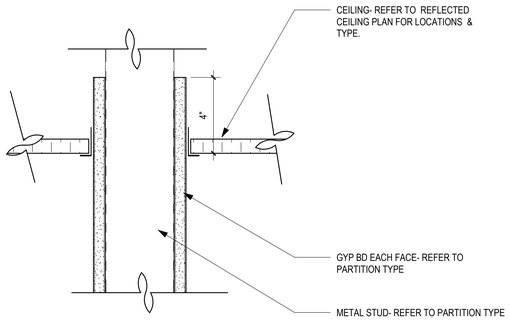
GENERAL NOTES

A. METAL STUDS ARE 20 GA NON-EMBOSSED STUDS UON

B. GYPSUM BOARD TO BE CHANGED TO CEMENTIOUS BOARD BEHIND TILE WALL FINISH AS INDICATED IN THE FINISH SCHEDULE.

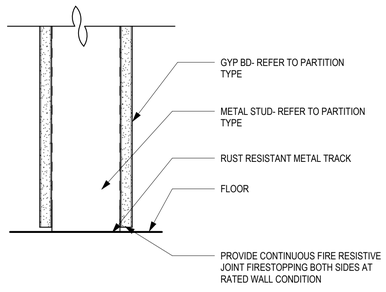
1 PARTITION TYPES

1/2" = 1'-0"



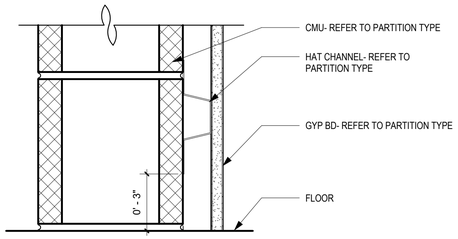
DET- CLG @ GYP BD PARTITION TYP

2 — 3" = 1'-0"



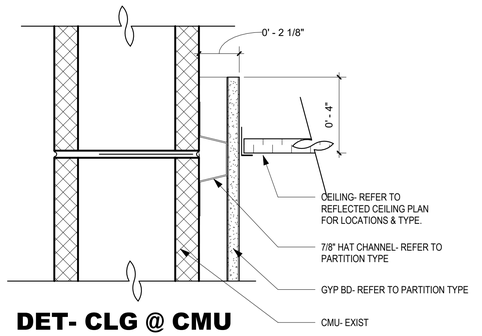
DET- FLR @ GYP BD PARTITION TYP

3 — 3" = 1'-0"



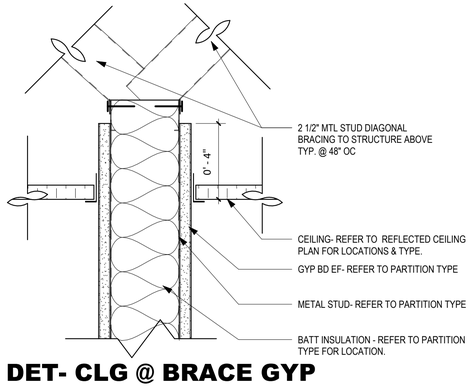
DET- FLR @ CMU PARTITION

4 — 3" = 1'-0"



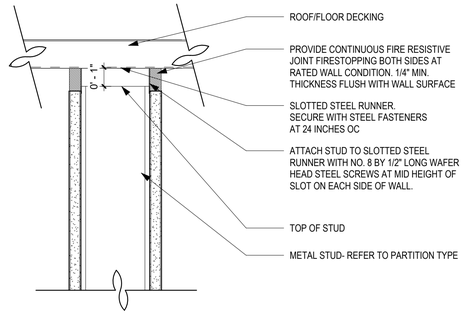
DET- CLG @ CMU PARTITION TYP

5 — 3" = 1'-0"



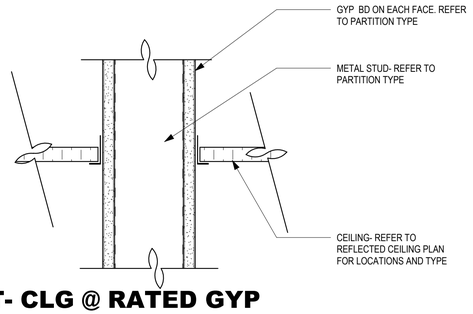
DET- CLG @ BRACE GYP BD PARTITION

6 — 3" = 1'-0"



DET - HEAD @ GYP BD PARTITION TYP

7 — 3" = 1'-0"



DET- CLG @ RATED GYP BD PARTITION TYP

8 — 3" = 1'-0"

STATE OF OHIO
THOMAS W. GATES
12169
6-26-25
REGISTERED ARCHITECT

THOMAS W. GATES
ARC.9812169
EXP. 12/31/2025

SPGB Architects
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'VD:	DATE:

INTERIOR PARTITION TYPES

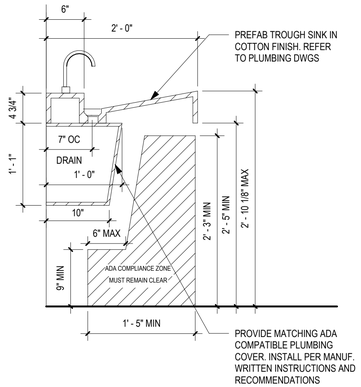
Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.
A-520

PROJ NO.: 130012-59

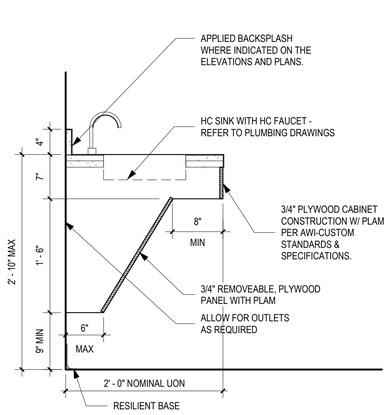
DATE: 6/25/2025

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



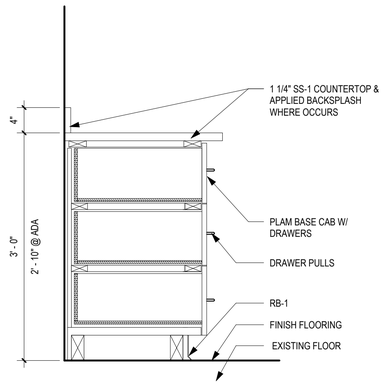
DET- TYP SECTION @ ADA TROUGH SINK

1 — 1" = 1'-0"



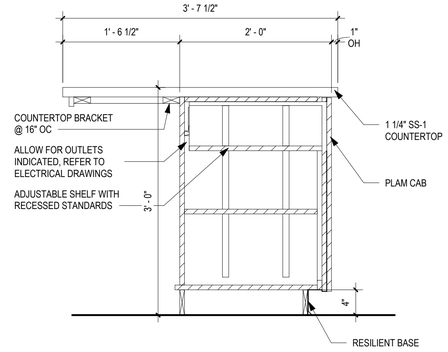
DET- TYP SECTION @ ADA SINK BASE

2 — 1" = 1'-0"



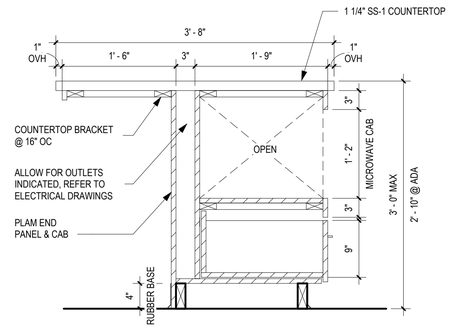
DET- TYP CABINET W/ DRAWERS

3 — 1" = 1'-0"



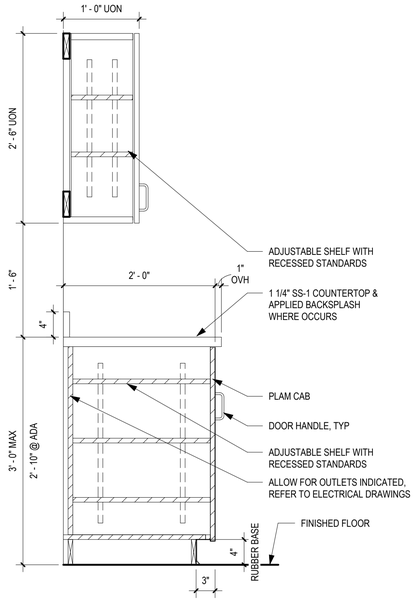
DET-TYP CABINET @ ISLAND

4 — 1" = 1'-0"



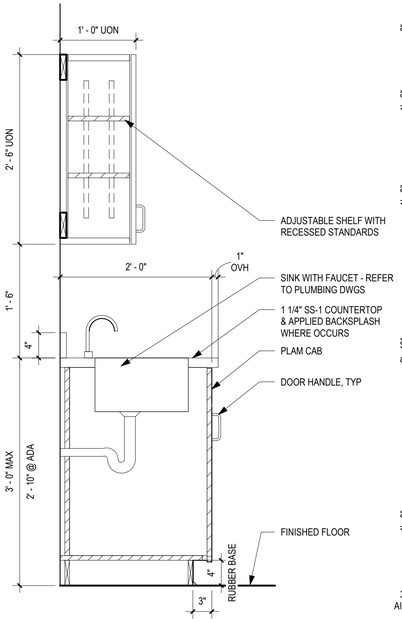
DET - MICROWAVE CAB @ ISLAND

5 — 1" = 1'-0"



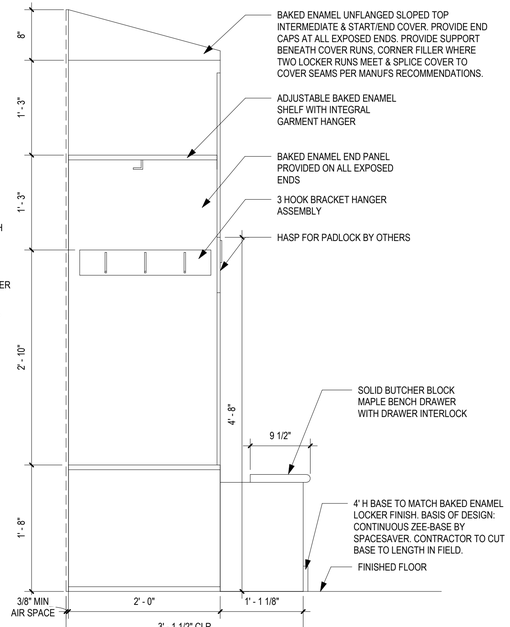
DET- TYP CABINET @ WALL

6 — 1" = 1'-0"



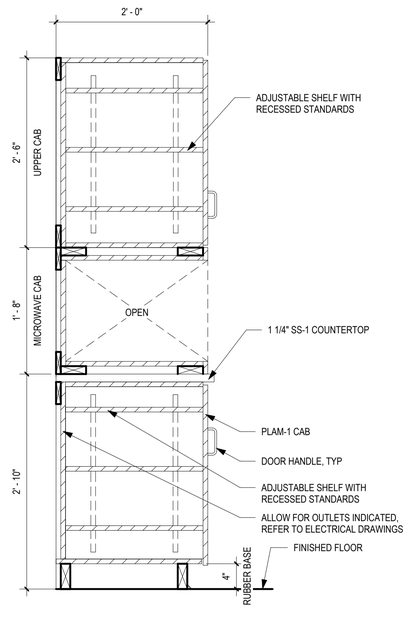
DET- TYP SECTION @ SINK BASE

7 — 1" = 1'-0"



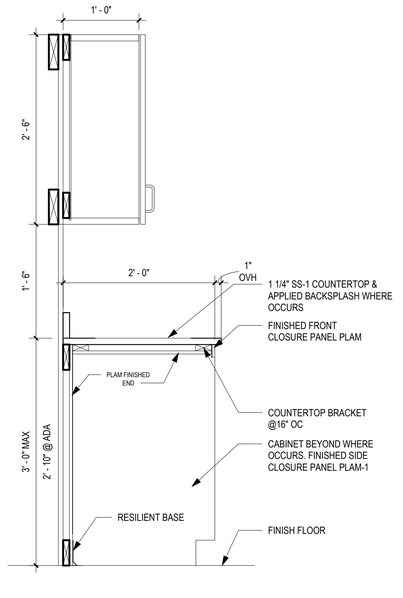
DET - TYP SECTION @ LOCKER W/ BENCH DRAWER

8 — 1" = 1'-0"



TYP SECTION @ STACKED APPLIANCES

9 — 1" = 1'-0"



DET-TYP SECTION @ CABINET KNEESPACE

10 — 1" = 1'-0"

THOMAS W. GATES
12169
6-26-25
REGISTERED ARCHITECT
STATE OF OHIO
THOMAS W. GATES
ARC.9812169
EXP. 12/31/2025

SPGB Architects
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'VD:	DATE:

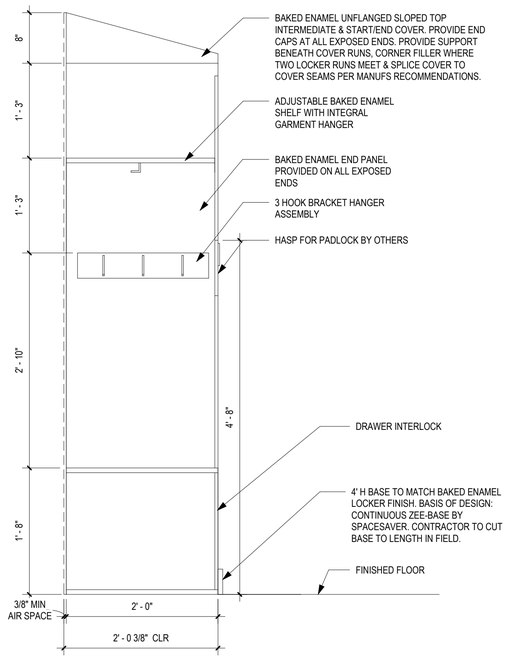
MISC INTERIOR DETAILS

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.
A-540

PROJ NO.: 130012-59
DATE: 6/25/2025

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



DET - TYP SECTION @ ADA LOCKER W/O BENCH

1

1" = 1'-0"

STATE OF OHIO
THOMAS W. GATES
12169
6-26-25
REGISTERED ARCHITECT

THOMAS W. GATES
ARC.9812169
EXP. 12/31/2025

SPGB Architects
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'VD:	DATE:

MISC INTERIOR DETAILS

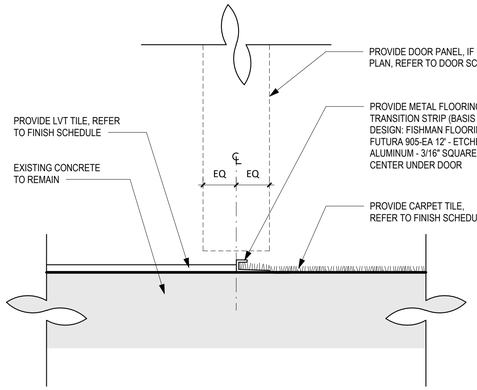
Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.
A-541

PROJ NO.: 130012-59

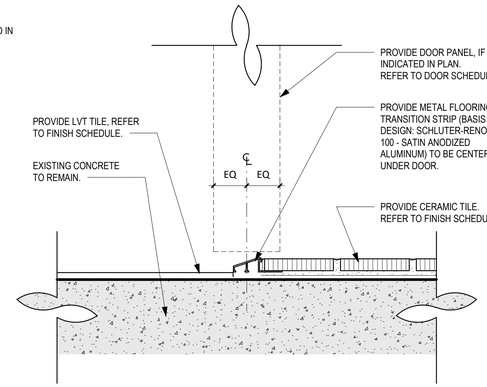
DATE: 6/25/2025

1/16" = 1'-0" 0 4" 8" 16'
1/8" = 1'-0" 0 2" 4" 8'
3/16" = 1'-0" 0 2" 4" 8"
1/4" = 1'-0" 0 1" 2" 4"
3/8" = 1'-0" 0 1" 2" 4"
1/2" = 1'-0" 0 6" 1" 2"
3/4" = 1'-0" 0 3" 6" 1" 2"
1" = 1'-0" 0 3" 6" 1" 2"
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



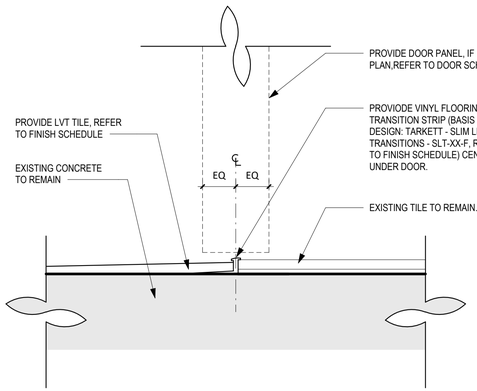
1 DET - LVT / CARPET - FLOOR TRANSITION

6" = 1'-0"



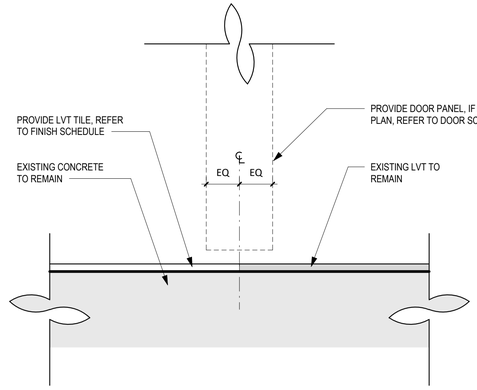
2 DET - LVT / CERAMIC TILE - FLOOR TRANSITION

6" = 1'-0"



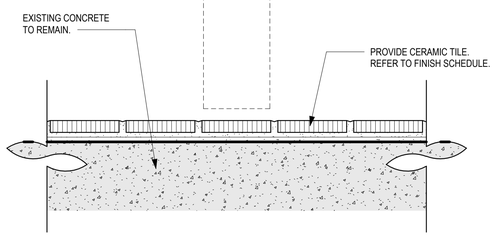
3 DET - LVT / EXIST CERAMIC TILE - FLOOR TRANSITION

6" = 1'-0"



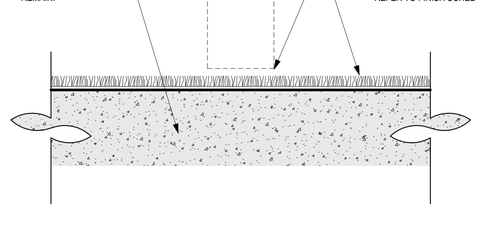
4 DET - LVT / EXIST LVT - FLOOR TRANSITION

6" = 1'-0"



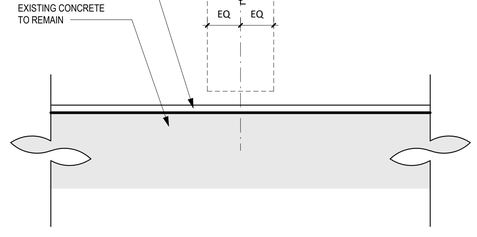
5 DET - TILE DOOR SILL

6" = 1'-0"



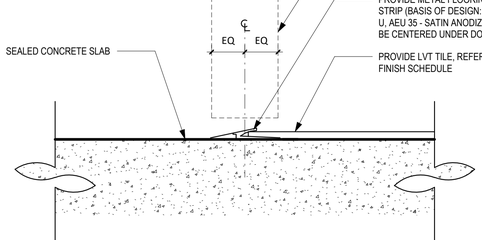
6 DET - DOOR SILL CARPET

6" = 1'-0"



7 DET - LVT DOOR SILL

6" = 1'-0"



8 DET - EXIST CONC / LVT - FLOOR TRANSITION

6" = 1'-0"

STATE OF OHIO
THOMAS W. GATES
12109
6-26-25
REGISTERED ARCHITECT

THOMAS W. GATES
ARC.9812169
EXP. 12/31/2025

SPGB Architects
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DESCRIPTION	DATE	APP'VD:	DATE:

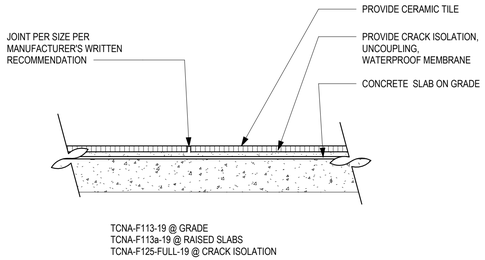
TYP FLOOR TRANSITIONS

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.
A-542

PROJ NO.: 130012-59
DATE: 6/25/2025

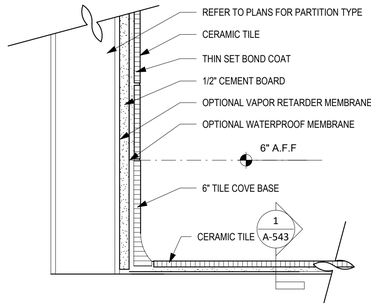
1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



TCNA-F113-19 @ GRADE
TCNA-F113a-19 @ RAISED SLABS
TCNA-F125-FULL-19 @ CRACK ISOLATION

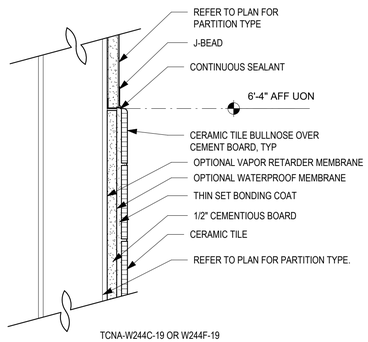
1 DET- TYP TILE FLOOR @ CONCRETE

3" = 1'-0"



2 DET- TYP CERAMIC TILE BOTT OF WALL @ TILE

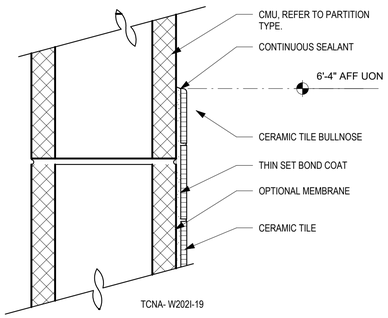
3" = 1'-0"



TCNA-W244C-19 OR W244F-19

3 DET- TYP CERAMIC TILE @ WALL

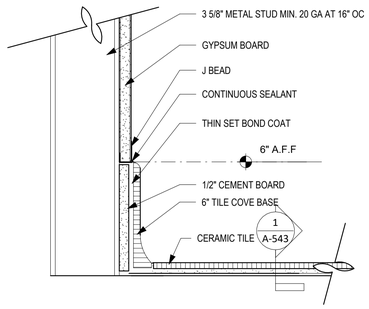
3" = 1'-0"



TCNA- W202I-19

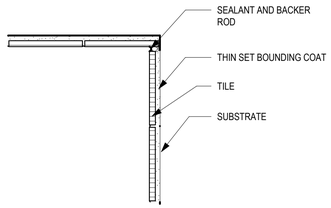
4 DET- TYP CERAMIC TILE @ WALL TOP OF CMU

3" = 1'-0"



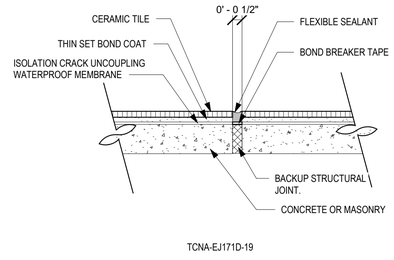
5 DET- TYP CERAMIC TILE @ BASE-STUD

3" = 1'-0"



6 DET- TYP CERAMIC TILE @ INSIDE CORNER

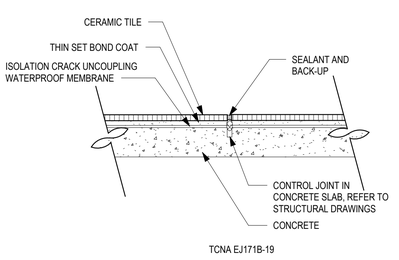
3" = 1'-0"



TCNA-EJ171D-19

7 DET- TYP TILE IJ/ EJ

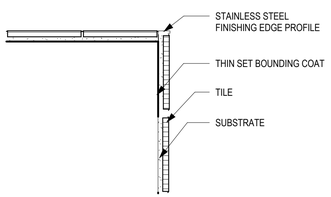
3" = 1'-0"



TCNA EJ171B-19

8 DET- TYP TILE CONTRACTION JT

3" = 1'-0"



9 DET- TYP CERAMIC TILE @ OUTSIDE CORNER

3" = 1'-0"

STATE OF OHIO
THOMAS W. GATES
12169
6-26-25
REGISTERED ARCHITECT

THOMAS W. GATES
ARC.9812169
EXP. 12/31/2025

SPGB Architects
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'D:	DATE:

TYP INTERIOR TILE DETAILS

Eastern Regional Water Reclamation Facility Operations Building Renovation

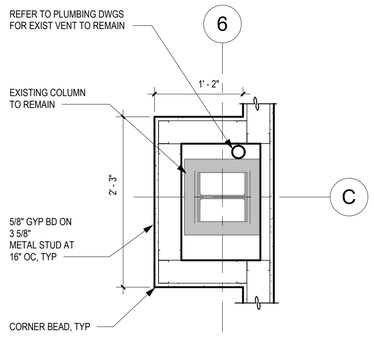
SHEET NO.
A-543

PROJ NO.: 130012-59
DATE: 6/25/2025

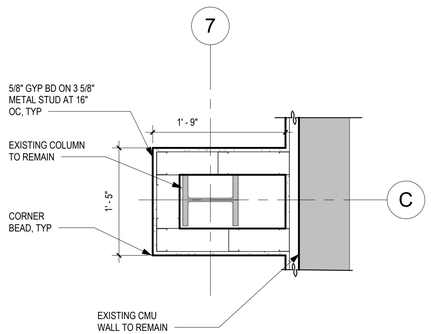
1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"

GENERAL NOTES

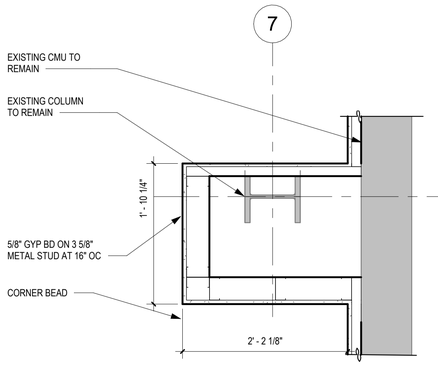
A. REFER TO SHEET A-520 FOR INTERIOR PARTITION TYPES.



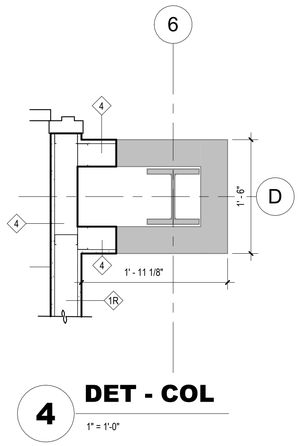
1 DET - COL
1" = 1'-0"



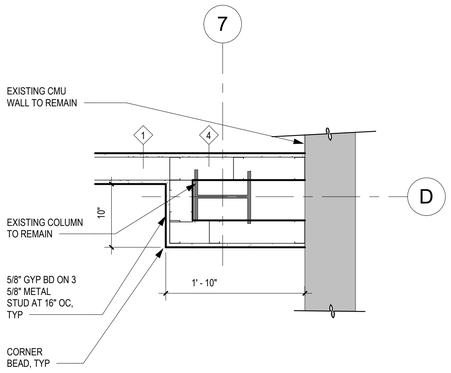
2 DET - COL
1" = 1'-0"



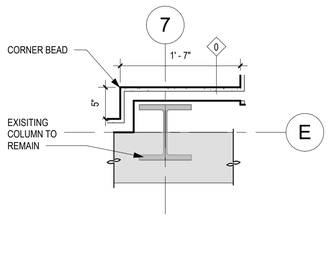
3 DET - COL
1" = 1'-0"



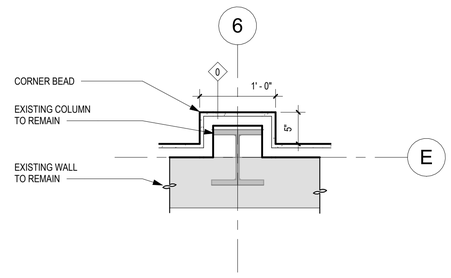
4 DET - COL
1" = 1'-0"



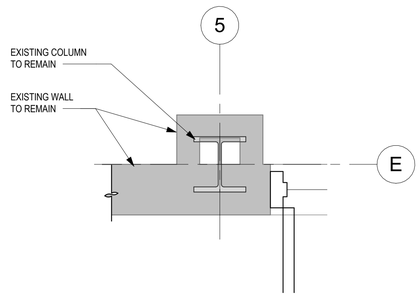
5 DET - COL
1" = 1'-0"



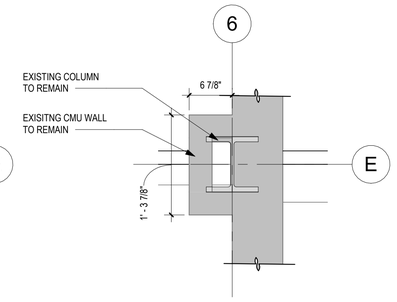
6 DET - COL
1" = 1'-0"



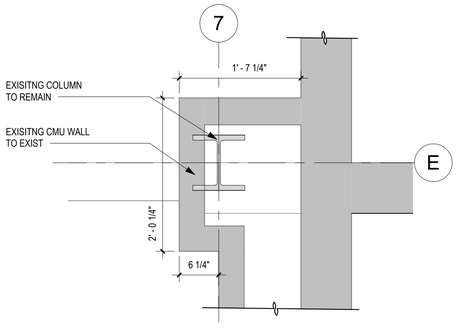
7 DET - COL
1" = 1'-0"



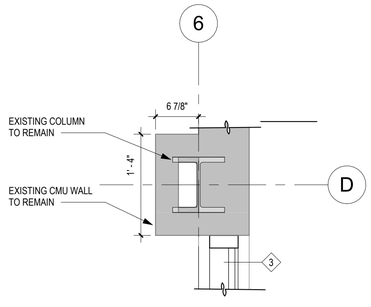
8 DET - COL
1" = 1'-0"



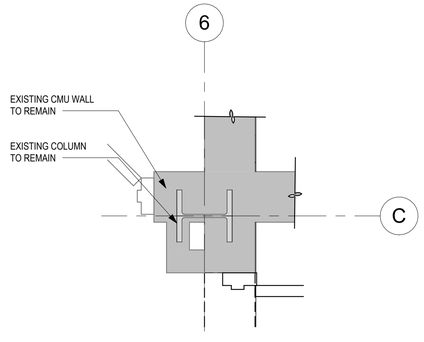
9 DET - COL
1" = 1'-0"



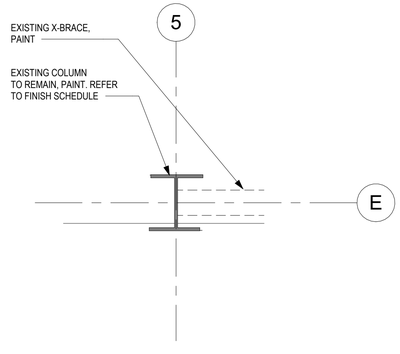
10 DET - COL
1" = 1'-0"



12 DET - COL
1" = 1'-0"



13 DET - COL
1" = 1'-0"



14 DET - COL
1" = 1'-0"

STATE OF OHIO
THOMAS W. GATES
12169
6-26-25
REGISTERED ARCHITECT

THOMAS W. GATES
ARC.9812169
EXP. 12/31/2025

SPGB Architects
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

No.	DESCRIPTION	APP'VD:	DATE:

SUBMITTAL/REVISION RECORD

DATE

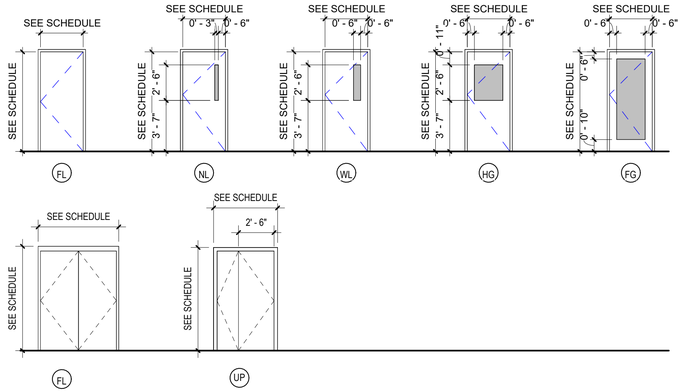
TYP INTERIOR COLUMN DETAILS

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.
A-544

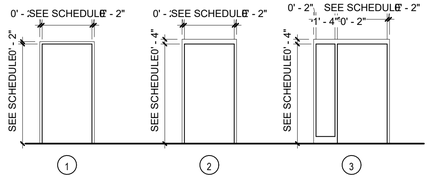
PROJ NO.: 130012-59
DATE: 6/25/2025

1/16" = 1'-0" | 1/8" = 1'-0" | 3/16" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"



DOOR TYPES

3/16" = 1'-0"



DOOR FRAME TYPES

3/16" = 1'-0"

FIRST FLOOR DOOR SCHEDULE

DOOR NO.	DOOR DIMENSIONS W	H	T	TYPE	MATERIAL	GLAZING	FRAME MATERIAL	TYPE	GLAZING	DETAIL HEAD	JAMB	SILL	HARDWARE	LABEL	REMARKS
102-2	3' - 0"	7' - 0"	1 3/4"	FL	HM	-	HM	EXIST	-	-	-	-	EX-AC-01	-	4
102-3	3' - 0"	7' - 0"	1 3/4"	FL	HM	-	HM	EXIST	-	-	-	-	EX-AC-01	-	4
103-1	3' - 0"	7' - 0"	1 3/4"	FL	HM	-	HM	2	-	5	6	7/A-542	01	45 MIN	
109-1	4' - 0"	7' - 0"	1 3/4"	FL	HM	-	HM	2	-	1	2	7/A-542	02	-	
111-1	3' - 0"	7' - 0"	1 3/4"	FL	HM	-	HM	1	-	1	2	2/A-542	03	-	3
111-2	3' - 0"	7' - 0"	1 3/4"	FL	HM	-	HM	1	-	1	2	5/A-542	03	-	
111-3	3' - 0"	7' - 0"	1 3/4"	FL	HM	-	HM	1	-	1	2	2/A-542	04	45 MIN	
113-2	6' - 0"	7' - 0"	1 3/4"	FL	HM	-	HM	2	-	5	6	7/A-542	05	45 MIN	
113-3	6' - 0"	7' - 0"	1 3/4"	FL	HM	-	HM	2	-	1	2	7/A-542	06	-	
116-1	3' - 0"	7' - 0"	1 3/4"	FG	HM	GL-1T	HM	2	-	5	6	7/A-542	03	-	
117-1	3' - 0"	7' - 0"	1 3/4"	FL	HM	-	HM	1	-	1	2	2/A-542	03	-	4
117-2	3' - 0"	7' - 0"	1 3/4"	FL	HM	-	HM	1	-	1	2	5/A-542	03	-	
117-3	3' - 0"	7' - 0"	1 3/4"	FL	HM	-	HM	1	-	1	2	2/A-542	04	45 MIN	
117-4	2' - 6"	7' - 0"	1 3/4"	FL	HM	-	HM	1	-	1	2	5/A-542	07	-	
120-1	3' - 8"	7' - 0"	1 3/4"	FL	HM	-	HM	2	-	5	6	7/A-542	08	45 MIN	
120-2	3' - 0"	7' - 0"	1 3/4"	FL	HM	-	HM	1	-	1	2	7/A-542	04	45 MIN	
123-1	3' - 0"	7' - 0"	1 3/4"	FG	HM	GL-1T	HM	3	GL-1T	1	2	7/A-542	09	-	
123-2	3' - 0"	7' - 0"	1 3/4"	HG	HM	GL-1T	HM	2	-	5	6	7/A-542	10	-	
124-2	3' - 0"	7' - 0"	1 3/4"	HG	HM	GL-1T	HM	2	-	5	6	4/A-542	10	-	
X104-1	6' - 0"	7' - 0"	1 3/4"	FG	ALUM	GL-2T	ALUM	2	-	5	6	-	AC-01	-	3, 5
X113-1	6' - 0"	7' - 0"	1 3/4"	FG	ALUM	GL-2T	ALUM	2	-	5	6	-	AC-02	-	2, 3, 5
X125-1	3' - 4"	7' - 0"	1 3/4"	EXIST	EXIST	EXIST	EXIST	2	-	5	6	-	EX-AC-02	-	4
X133-2	3' - 4"	7' - 0"	1 3/4"	FL	ALUM	GL-2T	ALUM	2	-	5	6	-	EX-AC-02	-	4
X133-17	2' - 6"	7' - 0"	1 3/4"	FL	HM	-	HM	1	-	1	2	5/A-542	07	-	

SECOND FLOOR DOOR SCHEDULE

DOOR NO.	DOOR DIMENSIONS W	H	T	TYPE	MATERIAL	GLAZING	FRAME MATERIAL	TYPE	GLAZING	DETAIL HEAD	JAMB	SILL	HARDWARE	LABEL	REMARKS
204-1	3' - 0"	7' - 0"	1 3/4"	FL	HM	-	HM	2	-	5	6	7/A-542	11	45 MIN	
206-1	3' - 0"	7' - 0"	1 3/4"	HG	HM	GL-1T	HM	2	-	5	6	7/A-542	12	-	
206-2	3' - 0"	7' - 0"	1 3/4"	HG	HM	GL-1T	HM	2	-	5	6	7/A-542	12	-	
214-1	3' - 0"	7' - 0"	1 3/4"	FL	HM	-	HM	1	-	1	2	6/A-542	13	-	
215-1	6' - 0"	7' - 0"	1 3/4"	FG	HM	GL-1T	HM	2	-	5	6	1/A-542	14	-	
217-1	3' - 0"	7' - 0"	1 3/4"	FL	HM	-	HM	1	-	1	2	6/A-542	13	-	
218-1	3' - 0"	7' - 0"	1 3/4"	FL	HM	-	HM	1	-	1	2	6/A-542	13	-	
221-1	3' - 0"	7' - 0"	1 3/4"	FL	HM	-	HM	1	-	1	2	6/A-542	13	-	
222-1	3' - 0"	7' - 0"	1 3/4"	FL	HM	-	HM	1	-	1	2	6/A-542	13	-	
223-1	3' - 0"	7' - 0"	1 3/4"	FL	HM	-	HM	2	-	5	6	2/A-542	15	-	1

DOOR SCHEDULE REMARKS

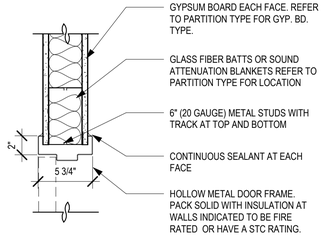
1. PROVIDE AUTOMATIC DOOR OPERATOR 48" ABOVE THE FLOOR. REFER TO ELECT DWGS.
2. PROVIDE ROUGH IN FOR FUTURE CARD READER ACCESS, REFER TO ELECT DWGS.
3. EXISTING HM DOOR & FRAME TO REMAIN. PROVIDE ROUGH-IN FOR FUTURE ELECTRIC STRIKE & CARDER READER, REFER TO ELECT DWGS.
4. PROVIDE DOOR BELL PUSH BUTTON AT 3'-6" OC ON RIGHT SIDE OF DOOR, REFER TO ELECT DWGS.

GENERAL NOTES

A. DOOR DETAILS ON SHEET A-601.

B. REFER TO SPECIFICATIONS FOR GLAZING TYPES.

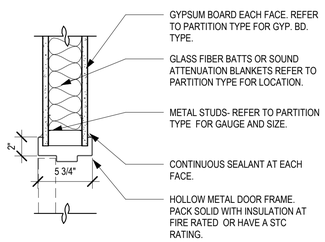
C. REFER TO SHEET A-620 FOR DOOR AND FRAME FINISH.



DET - DH GYP BD PARTITION

1

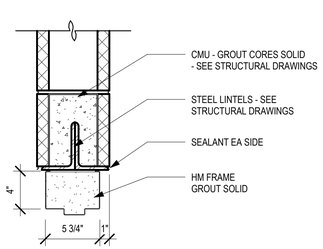
1 1/2" = 1'-0"



DET - DJ GYP BD PARTITION

2

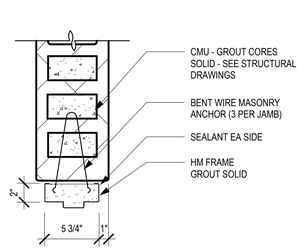
1 1/2" = 1'-0"



DET - DH @ CMU

3

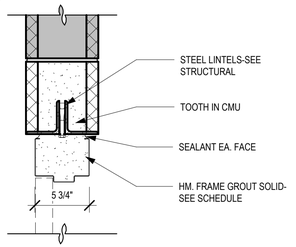
1 1/2" = 1'-0"



DET - DJ @ CMU

4

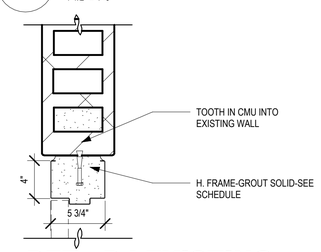
1 1/2" = 1'-0"



DET - DH EXISTING CMU WALL

5

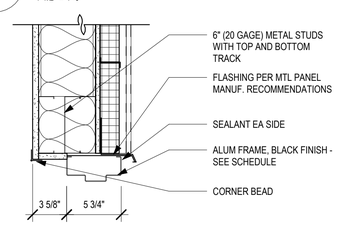
1 1/2" = 1'-0"



DET - DJ EXISTING CMU WALL

6

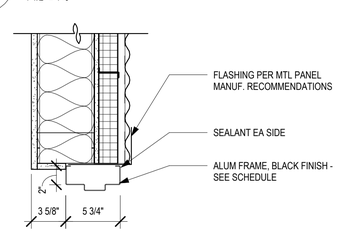
1 1/2" = 1'-0"



DET - DH @ MTL STUD/MTLPANEL

7

1 1/2" = 1'-0"



DET - DJ @ MTL STUD/MTL PANEL

8

1 1/2" = 1'-0"

SPGB Architects
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

STATE OF OHIO
THOMAS W. GATES
12169
6-26-25
REGISTERED ARCHITECT

THOMAS W. GATES
ARC.9812169
EXP. 12/31/2025

DESIGNED BY: SPGB ARCHITECTS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'D:	DATE:

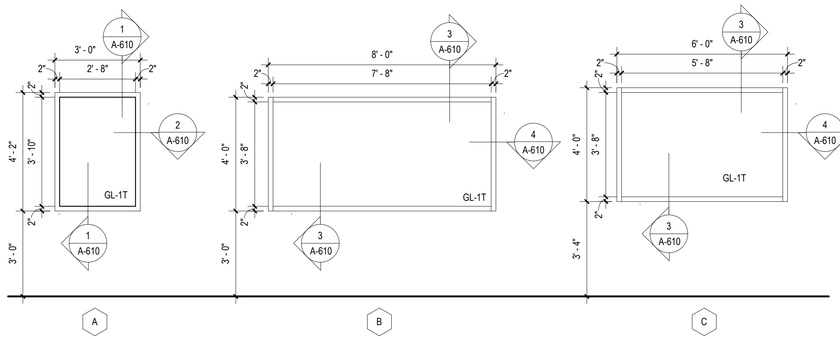
DOOR SCHEDULE, TYPES & DETAILS

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.
A-601

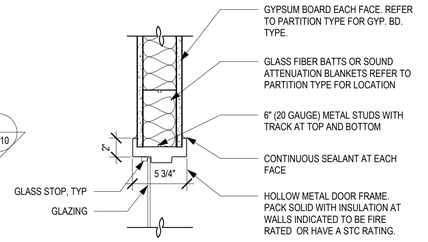
PROJ NO.: 130012-59
DATE: 6/25/2025

1/16" = 1'-0" | 1/8" = 1'-0" | 3/16" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"



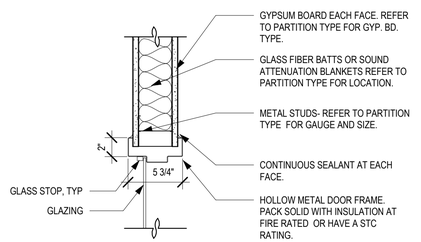
INTERIOR BORROW LITE FRAME TYPES

3/8" = 1'-0"



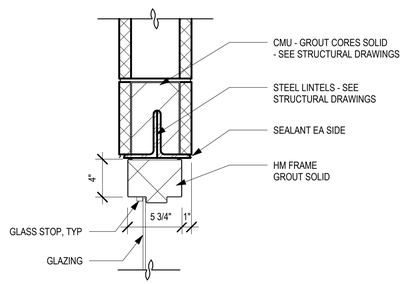
DET - HEAD/SILL INT HM GLAZING @ GYP BD PARTITION

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



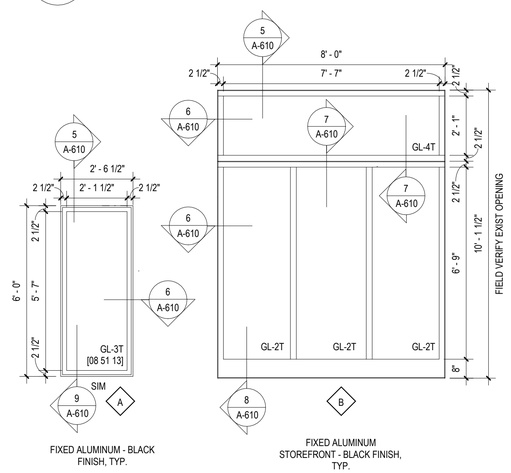
DET - JAMB INT HM GLAZING @ GYP BD PARTITION

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



DET - HEAD/SILL INT HM GLAZING @ CMU

3 1 1/2" = 1'-0"

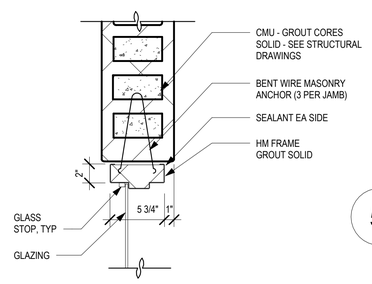


FIXED ALUMINUM - BLACK FINISH, TYP.

FIXED ALUMINUM STOREFRONT - BLACK FINISH, TYP.

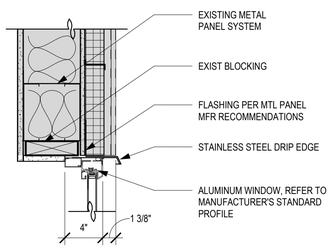
WINDOW TYPES A - B

3/8" = 1'-0"



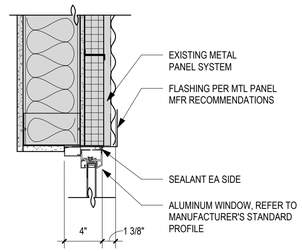
DET - JAMB INT HM GLAZING @ CMU

4 1 1/2" = 1'-0"



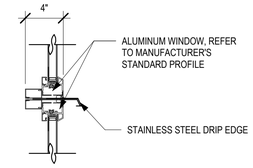
DET - EXT WINDOW HEAD

5 1 1/2" = 1'-0"



DET - EXT WINDOW JAMB

6 1 1/2" = 1'-0"



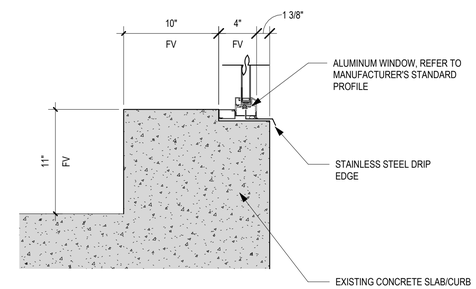
DET - ABUTTING WINDOW HEAD/SILL

7 1 1/2" = 1'-0"



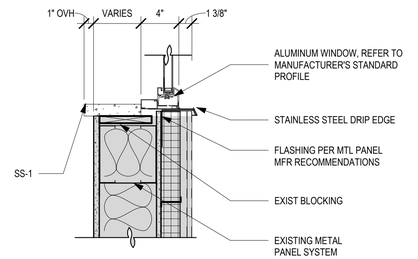
DET - EXT WINDOW SILL

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



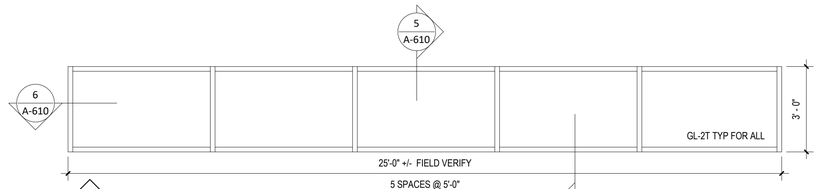
DET - EXT WINDOW SILL

9 1 1/2" = 1'-0"

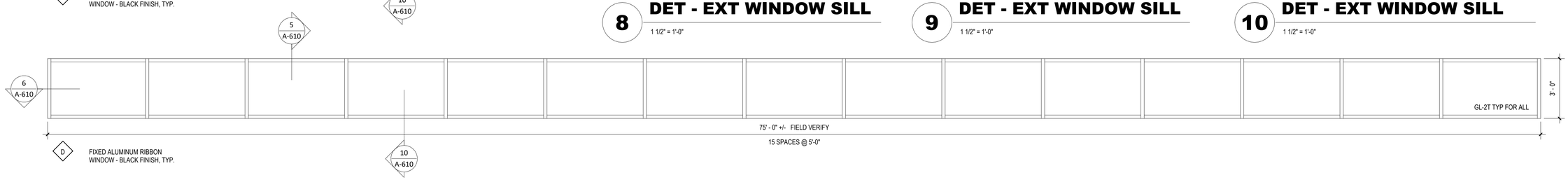


DET - EXT WINDOW SILL

10 1 1/2" = 1'-0"



FIXED ALUMINUM RIBBON WINDOW - BLACK FINISH, TYP.



FIXED ALUMINUM RIBBON WINDOW - BLACK FINISH, TYP.

RIBBON WINDOW TYPES C - D

3/8" = 1'-0"

STATE OF OHIO
THOMAS W. GATES
12169
6-26-25
REGISTERED ARCHITECT

THOMAS W. GATES
ARC.9812169
EXP. 12/31/2025

SPGB Architects
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

No.	DATE	DESCRIPTION	APP'VD:	DATE:

SUBMITTAL/REVISION RECORD

WINDOW TYPES & DETAILS

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.

A-610

PROJ NO.: 130012-59

DATE: 6/25/2025

1/16" = 1'-0" 0 4" 8" 16'
1/8" = 1'-0" 0 2" 4" 8'
3/16" = 1'-0" 0 2" 4" 8"
1/4" = 1'-0" 0 1" 2" 4"
3/8" = 1'-0" 0 1" 2" 4"
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"

Item No.	Manufacturer	Color #	Color Name	Unit Size
06 41 00 - Architectural Wood Casework				
PLAM-1	Wilsonart	8218-38	Kingswood Walnut	
PLAM-2	Abet Laminati	1944		
09 30 13 - Ceramic Tiling				
CT-2	STP Tile		White	12"x16" Standard Sheet
CT-3	Tilebar		Blanco White	4"x4"
CT-4	Tilebar		Adaya Multicolor	12"x12"
CT-5	Rookwood		Green	3"x6"
CT-6	DaTile		Arctic White	2"x2"
CT-7	DaTile		Arctic White	3"x6"
CT-8	DaTile	WW02	Drift	12"x24"
CT-9	DaTile		Arctic White	6"x6"
09 51 13 - Acoustical Ceiling Tile				
ACT-1	Armstrong	WH	White	2'x4'
ACT-2	Armstrong	BK	Black	2'x4'
ACT-3	Armstrong	WH	White	2'x2'
09 65 13 - Wall Base				
RB-1	Tarkett	40	Black	4"
RB-2	Tarkett	VK7	Mt. Rainier	4"
09 65 19 - Luxury Vinyl Tile				
LVT-1A	Tarkett	837	Light Olive Green	2'x2'
LVT-1B	Tarkett	845	Black	2'x2'
LVT-1C	Tarkett	983	Soft Blue	2'x2'
LVT-1D	Tarkett	874	Grey Beige	2'x2'
LVT-1E	Tarkett	205	Soft Warm White	2'x2'
LVT-2	Tarkett	874	Grey Beige	1'x1'
RSF-2	Tarkett	874	Grey Beige	Roll-2500 cm x 200 cm
09 68 13 - Carpet Tile				
CPT-1	Hero	HF-CARPET-DRIZZLE	Platinum	24"x24"
09 72 00 - Wall Coverings				
WC-2	Level	L90403	Robin's Egg	
WC-3	Carnegie	8108	2	52" Wide
WC-4	Koroseal	TR-5154	Metallic	48" Wide
WC-5	Koroseal	TC-5179	Fabric	48" Wide
09 91 24 - Interior Painting				
P-1B	Sherwin Williams	SW 7007	Ceiling Bright White	n/a
P-2B	Sherwin Williams	SW7074	Software	n/a
P-3B	Sherwin Williams	SW 7076	Cyberspace	n/a
P-4A	Sherwin Williams	SW 7076	Cyberspace	n/a
P-5A	Sherwin Williams	SW 7006	Extra White	n/a

SCHEDULE ARE BASIS OF DESIGN UON

FIRST FLOOR FINISH SCHEDULE

ROOM NO.	ROOM DESCRIPTION	FLOOR BASE	FLOOR MATERIAL	WALL FINISH NORTH	WALL FINISH EAST	WALL FINISH SOUTH	WALL FINISH WEST	CEILING MATERIAL	CEILING FINISH	REMARKS
E-1	ELEVATOR	RB-2	LVT-2	WC-4	WC-5	WC-5	WC-5			
PT-103	STAIR 01	RB-1/EXIST	LVT-2	P-1B	P-1B	P-1B	P-1B	EXP	P-4A	5
PT-104	CORRIDOR	RB-1/EXIST	LVT-1B, -1D	P-1B	P-1B	P-1B	P-1B	ACT-3	-	2, 5
PT-106	STAIR 02	RB-1/EXIST	LVT-2	P-1B	P-1B	P-1B	P-1B	EXP	P-4A	5
PT-109	CORRIDOR	RB-1/EXIST	LVT-1A, -1B, -1C, -1D, -1E	P-1B	P-1B	P-1B	-	ACT-2/GYP	P-4A	5
PT-113	CORRIDOR	RB-1/EXIST	LVT-1A, -1B, -1C, -1D, -1E	P-1B	P-1B	P-1B	P-1B	ACT-2	-	5
PT-116	BREAK ROOM	RB-1	LVT-1A, -1B, -1C, -1D, -1E	P-1B/CT-2	P-1B/CT-2	P-1B	WC-2	ACT-1	-	1
PT-117	MEN'S LOCKER ROOM	CT-9	CT-8	CT-5/CT-7/P-1B	CT-7/P-1B	P-1B	CT-7/P-1B	ACT-1/GYP	P-5A	4
PT-120	LAUNDRY/JANITOR	RB-2/EXIST	LVT-2	P-1B	P-1B	P-1B	P-1B	ACT-1	-	5
PT-123	SCADA	RB-2	RSF-2	P-1B	P-1B	P-1B	P-1B	ACT-1	-	
PT-124	LABORATORY	RB-2	RSF-2	P-1B	P-1B	P-1B/CT-3	P-1B/CT-3	ACT-1	-	
PT-127	WOMEN'S LOCKER ROOM	CT-9	CT-8	CT-4/CT-5/CT-7/P-1B	P-1B	CT-5/CT-7/P-1B	CT-7/P-1B	ACT-1/GYP	P-5A	4

SECOND FLOOR FINISH SCHEDULE

ROOM NO.	ROOM DESCRIPTION	FLOOR BASE	FLOOR MATERIAL	WALL FINISH NORTH	WALL FINISH EAST	WALL FINISH SOUTH	WALL FINISH WEST	CEILING MATERIAL	CEILING FINISH	REMARKS
E-1	ELEV	RB-2	LVT-2	WC-4	WC-5	WC-5	WC-5	SEE DWG	SEE DWG	
PT-204	STAIRS 01	RB-1/EXIST	LVT-2	P-1B	P-1B	P-1B	P-1B	EXP	P-4A	5
PT-205	CORRIDOR	RB-1/EXIST	LVT-1A,-1B, -1C, -1D, -1E	P-1B	P-1B	P-1B	P-1B	EXP	P-4A	2, 3, 5
PT-206	ASSEMBLY ROOM	RB-1/EXIST	LVT-1A,-1B, -1C, -1D, -1E	P-1B	P-1B	P-1B	P-1B	ACT-1	-	5
PT-207	RESTROOM	CT-9/EXIST	CT-6	CT-7/P-1B	CT-7/P-1B	CT-7/P-1B	CT-5/CT-7/P-1B	ACT-1	-	5
PT-208	KITCHEN	RB-1	LVT-1A,-1B, -1C, -1D, -1E	P-1B	P-1B	P-1B	P-1B	ACT-1	-	
PT-210	STAIRS 02	RB-1/EXIST	LVT-2	P-1B	P-1B	P-1B	P-1B	EXP	P-4A	5
PT-211	CORRIDOR	RB-1/EXIST	LVT-1A,-1B, -1C, -1D, -1E	P-1B	P-1B	P-1B	P-1B	EXP	P-4A	2, 5
PT-213	CORRIDOR	EXISTRB-1/EXIST	LVT-1A,-1B, -1C, -1D, -1E	-	P-1B	P-1B	P-1B	EXP	P-4A	5
PT-214	OFFICE 01	RB-2	CPT-1	P-1B	P-1B	P-1B	P-1B	ACT-1	-	
PT-215	MTG ROOM	RB-2	CPT-1	P-1B	P-1B	P-1B	WC-3	ACT-1	-	
PT-216	CORRIDOR	RB-1/EXIST	LVT-1A,-1B, -1C, -1D, -1E	P-1B	P-1B	-	P-1B	ACT-2	-	5
PT-217	OFFICE 02	RB-2	CPT-1	P-1B	P-1B	P-1B	P-1B	ACT-1	-	
PT-218	OFFICE 03	RB-2	CPT-1	P-1B	P-1B	P-1B	P-1B	ACT-1	-	
PT-221	OFFICE 04	RB-2	CPT-1	P-1B	P-1B	P-1B	P-1B	ACT-1	-	
PT-222	OFFICE 05	RB-2	CPT-1	P-1B	P-1B	P-1B	P-1B	ACT-1	-	
PT-223	RESTROOM	CT-9/EXIST	CT-6	CT-7/P-1B	CT-5/CT-7/P-1B	CT-7/P-1	CT-7/P-1B	ACT-1	-	5

GENERAL NOTES

A. PAINT SHEEN IS TYPE 'B' UON.

B. PAINT ALL EXPOSED CONDUIT; STRUCTURAL STEEL; ELECTRICAL RACEWAYS AND BOXES; MECHANICAL PIPING, DUCTS AND EQUIPMENT; & PLUMBING PIPING, WITH THE EXCEPTION OF PRE-FINISHED AND INSULATED ITEMS, TO MATCH ADJACENT PAINTED SURFACE, UON.

C. SEAL ALL EXPOSED CONCRETE FLOORS, UON.

D. SEE REFLECTED CEILING PLAN FOR MISCELLANEOUS SOFFITS & CEILING TRANSITIONS.

E. PROVIDE RESILIENT TRANSITION STRIP AT ALL FLOOR FINISH MATERIAL TRANSITIONS, UON ALL TRANSITIONS OCCUR ON ROOM SIDE.

F. PROVIDE METAL TRANSITION STRIPS WHERE CERAMIC FLOOR TILE TRANSITIONS TO ANOTHER MATERIAL.

G. PAINT ALL EXIST & NEW METAL ACCESS PANELS, DOORS & FRAMES TO MATCH ADJACENT SURFACES, UON.

H. ALL FURNITURE SHOWN TO BE PROVIDED & INSTALLED BY OWNER, UON.

I. ALL MECHANICAL LOUVERS TO MATCH FINISH COLOR OF CEILING TILE AS SPECIFIED.

FINISH SYMBOLS LEGEND

ACOUSTICAL CEILING TILE [09 51 13]	ACT-X
CARPET TILE [09 68 13]	CPT-X (COLOR, TYP. - REFER TO SPEC. TYP.)
CERAMIC TILE [09 30 13]	CT-X
EPOXY PAINT [09 96 00]	EPOXY
PAINT [09 91 24]	P-XX
RESILIENT SHEET FLOORING [09 65 16]	RSF-X (SHEEN - REFER TO SHEEN LEGEND BELOW)
LUXURY VINYL TILE [09 65 19]	LVT-X
VINYL WALL COVERING [09 72 00]	VWC-X
RUBBER BASE [09 65 13]	RB-X
COVED RESILIENT BASE	CRB-X
EXPOSED CEILING	EXP
PLASTIC LAMINATE	PLAM-X

SHEEN LEGEND

A FLAT- MPI GLOSS LEVEL 1
B EGGSHELL / EG-SHEL / SATIN- MPI GLOSS LEVEL 3
C SEMI-GLOSS- MPI GLOSS LEVEL 5
D HIGH GLOSS- MPI GLOSS LEVEL 6

REMARKS

1. REFER TO INTERIOR ELEVATIONS AND/OR FINISH PLAN CODED NOTES FOR FINISH PATTERN.
2. PAINT X-BRACING P-3B, UON.
3. PAINT ALL STRUCTURAL STEEL & EXPOSED WALL PANEL P-1B, UON.
4. LOCKER ROOM SHOWER FINISH NOT LISTED IN SCHEDULE. REFER TO INTERIOR ELEVATIONS AND/OR FINISH PLAN CODED NOTES FOR PATTERN & LOCATION.
5. MAINTAIN EXISTING GLAZED CMU WALL BASE. PROVIDE WALL BASE IN AREAS OF NEW CONSTRUCTION.

STATE OF OHIO
THOMAS W. GATES
12169
6-26-25
REGISTERED ARCHITECT

THOMAS W. GATES
ARC.9812169
EXP. 12/31/2025

SPGB Architects
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'VD.	DATE

FINISH SCHEDULE

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.
A-620

PROJ NO.: 130012-59
DATE: 6/25/2025

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"

CODED NOTES (X)

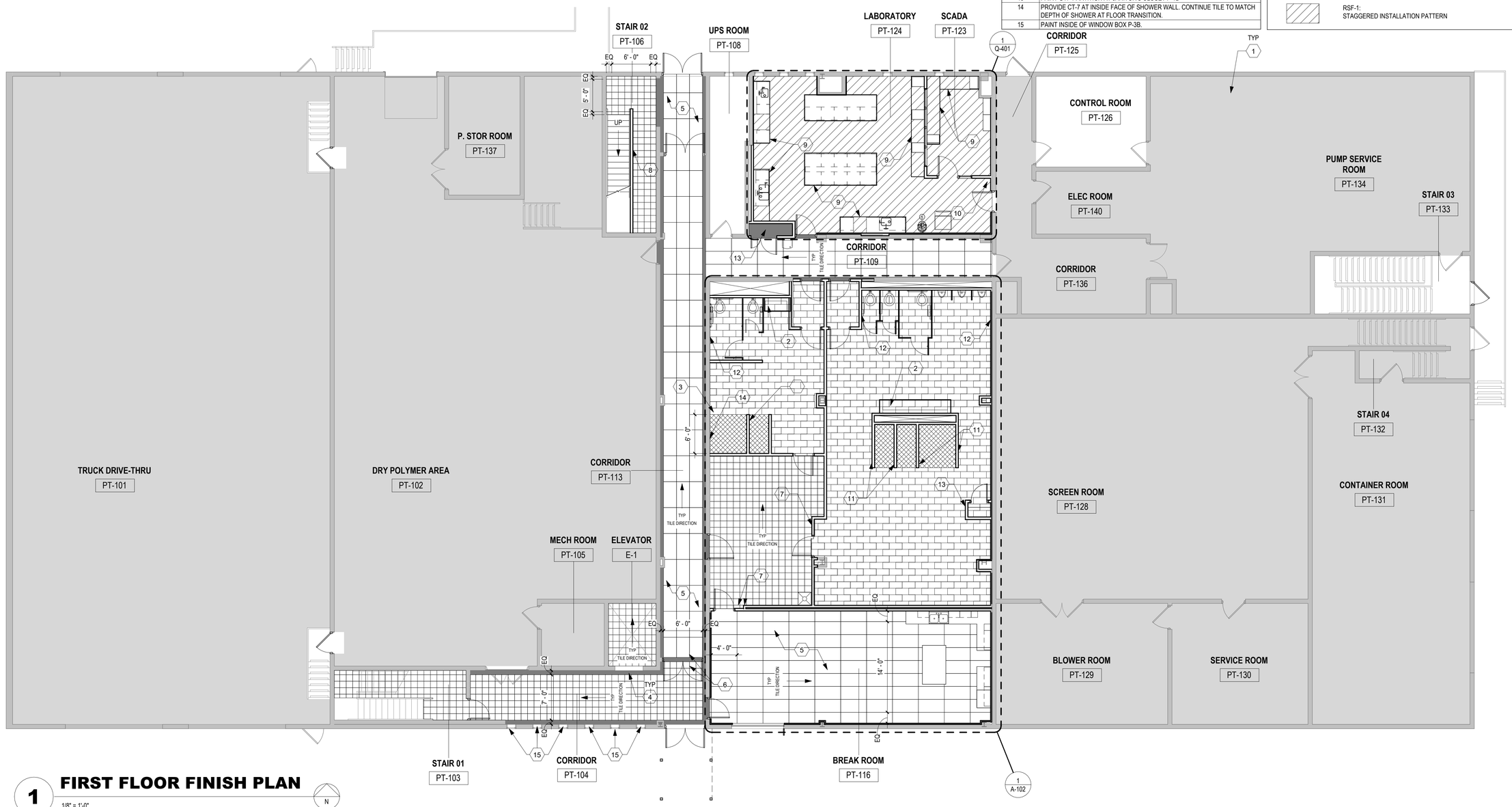
	PROVIDE CT-7 ENTIRE FACE OF GRP PARTITION. WRAP PARTITION WITH CT-7 TO CONTINUE TILE AT INSIDE FACE OF SHOWER WALLS. REFER TO INTERIOR ELEVATIONS FOR PATTERN
1	NO WORK IN AREA AS INDICATED BY SHADED REGION UON
2	OUTLINE OF TROUGH SINK FOR REFERENCE. CONTINUE FLOOR PATTERN BENEATH SINK BASE, TYP
3	BEGIN STAGGERED PATTERN WITH FULL SIZED CT-8, UON. DIRECTION OF TILE AS INDICATED ON FINISH PLAN.
4	BEGIN FLOOR PATTERN W/ LVT-1B AS INDICATED BY SHADED REGION. CONTRACTOR TO CUT TILE TO SIZE AS DIMENSIONED ON FINISH PLAN.

CODED NOTES (X)

5	RANDOM PATTERN WITH LVT-1A, -1B, -1C, -1D, OR -1E AT CONTRACTOR'S DISCRETION. LVT-1A THRU LVT-1E SHALL BE EQUALLY DISTRIBUTED, WITH EACH TILE TYPE MAKING UP 20% OF THE OVERALL SURFACE AREA. DESIGN TO FOLLOW DIRECTION OF TILE AS INDICATED ON FINISH PLAN. CENTER BETWEEN LVT-1B BORDER WHERE APPLICABLE UON. REPEAT TILE TYPE TO MATCH 2' X 4' FORMAT, TYP.
6	ALIGN FLOOR TILE SEAMS
7	ALIGN FLOOR TILE WITH FACE OF PARTITION.
8	PROVIDE LVT-2 AT FIRST FLOOR LANDING. LVT-2 TO ALIGN W/ GYP BD PARTITION BENEATH STAIRWELL.
9	OUTLINE OF COUNTERTOP W/ FIXED CASEWORK BELOW. CONTINUE LVT-2 AT CASEWORK OPENINGS.
10	BEGIN FLOOR PATTERN W/ FULL SIZED LVT-2.
11	PROVIDE CT-7 ENTIRE FACE OF GRP PARTITION. WRAP PARTITION WITH CT-7 TO CONTINUE TILE AT INSIDE FACE OF SHOWER WALLS. REFER TO INTERIOR ELEVATIONS FOR PATTERN
12	PROVIDE CT-7 TO ALIGN WITH TOP OF CT-7 AT ADJACENT WALL. TERMINATE CT-7 AT INTERSECTING PARTITION WHERE APPLICABLE.
13	PAINT GYP PARTITION AT JANITOR'S CLOSET P-1B
14	PROVIDE CT-7 AT INSIDE FACE OF SHOWER WALL. CONTINUE TILE TO MATCH DEPTH OF SHOWER AT FLOOR TRANSITION.
15	PAINT INSIDE OF WINDOW BOX P-3B.

FINISH LEGEND

- LVT-1A THRU LVT-1E: RANDOM PATTERN, MONOLITHIC INSTALLATION
- LVT-2: MONOLITHIC INSTALLATION PATTERN
- LVT-1B: MONOLITHIC INSTALLATION PATTERN
- CPT-1: MONOLITHIC INSTALLATION PATTERN
- CT-6: MONOLITHIC INSTALLATION PATTERN
- CT-8: STAGGERED INSTALLATION PATTERN
- RSF-1: STAGGERED INSTALLATION PATTERN



1 FIRST FLOOR FINISH PLAN

1/8" = 1'-0"

STATE OF OHIO
THOMAS W. GATES
12169
6-26-25
REGISTERED ARCHITECT

THOMAS W. GATES
ARC.9812169
EXP. 12/31/2025

SPGB Architects
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DESCRIPTION	APP'VD:	DATE:

FIRST FLOOR FINISH PLAN

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.
A-621

PROJ NO.: 130012-59
DATE: 6/25/2025

1/16" = 1'-0" 0 4' 8' 16'

1/8" = 1'-0" 0 2' 4' 8'

3/16" = 1'-0" 0 2' 4' 8'

1/4" = 1'-0" 0 1' 2' 4'

3/8" = 1'-0" 0 1' 2' 4'

1/2" = 1'-0" 0 6" 1' 2'

3/4" = 1'-0" 0 3" 6" 1' 2'

1" = 1'-0" 0 3" 6" 1' 2'

1 1/2" = 1'-0" 0 3" 6" 1'

3" = 1'-0" 0 1" 2" 3" 6" 1'

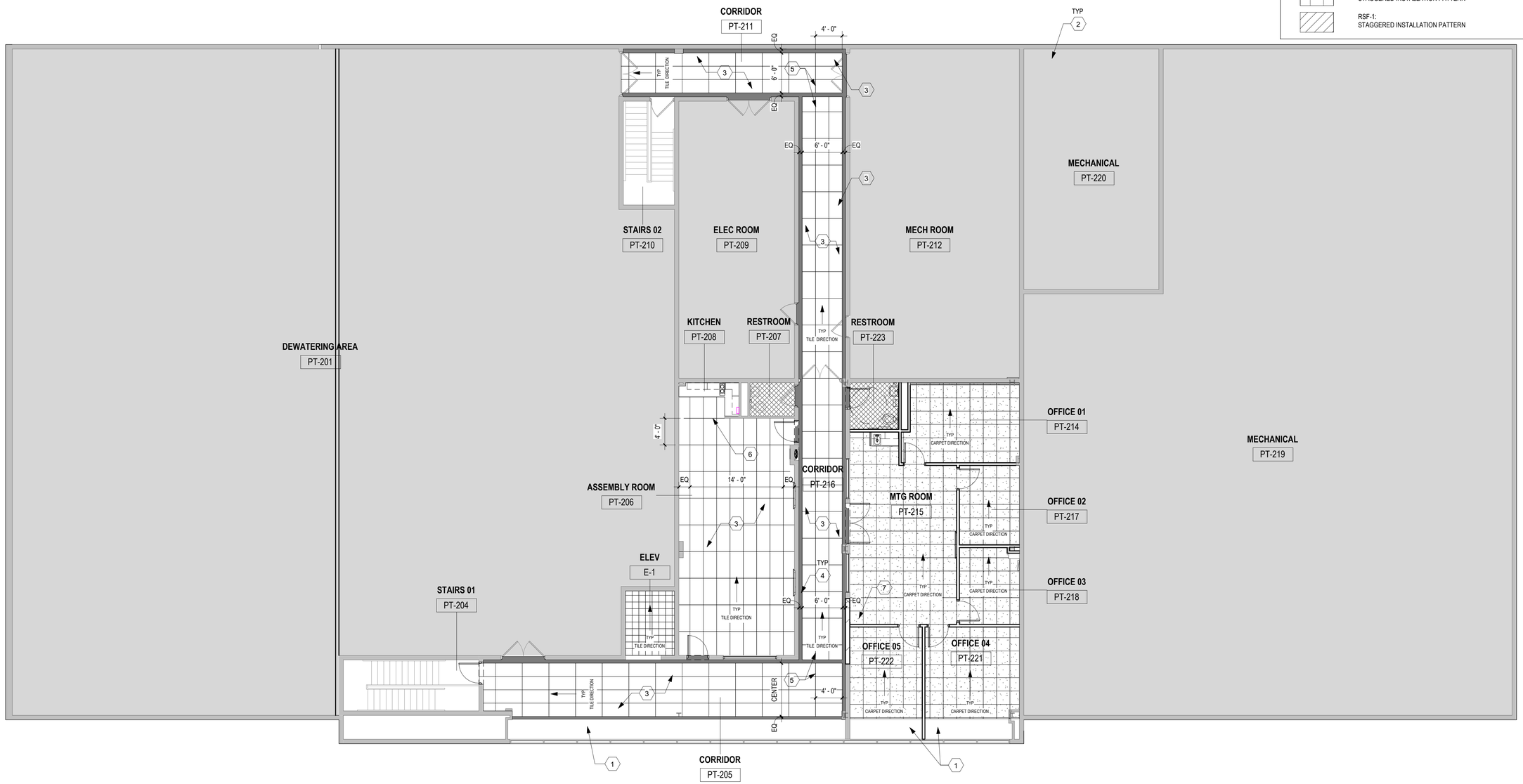
6" = 1'-0" 0 1" 2" 3" 6"

CODED NOTES (X)

1	EXIST WINDOW SILL TO REMAIN. PROVIDE SS COUNTERTOP. MAINTAIN EXIST PARTIAL HEIGHT PARTITION BELOW. REFER TO FINISH SCHEDULE FOR PAINT SELECTION.
2	NO WORK IN AREA AS INDICATED BY SHADED REGION UON
3	RANDOM PATTERN WITH LVT-1A, -1B, -1C, -1D, OR -1E AT CONTRACTOR'S DISCRETION. LVT-1A THRU LVT-1E SHALL BE EQUALLY DISTRIBUTED, WITH EACH TILE TYPE MAKING UP 20% OF THE OVERALL SURFACE AREA. DESIGN TO FOLLOW DIRECTION OF TILE AS INDICATED ON FINISH PLAN. CENTER BETWEEN LVT-1B BORDER WHERE APPLICABLE UON. REPEAT TILE TYPE TO MATCH 2' X 4' FORMAT, TYP.
4	BEGIN FLOOR PATTERN W/ LVT-1B AS INDICATED BY SHADED REGION. CONTRACTOR TO CUT TILE TO SIZE AS DIMENSIONED ON FINISH PLAN.
5	ALIGN FLOOR TILE SEAMS
6	ALIGN FLOOR TILE WITH FACE OF PARTITION.
7	BEGIN FLOOR PATTERN WITH FULL SIZED CPT-1.

FINISH LEGEND

- LVT-1A THRU LVT-1E: RANDOM PATTERN, MONOLITHIC INSTALLATION
- LVT-2: MONOLITHIC INSTALLATION PATTERN
- LVT-1B: MONOLITHIC INSTALLATION PATTERN
- CPT-1: MONOLITHIC INSTALLATION PATTERN
- CT-6: MONOLITHIC INSTALLATION PATTERN
- CT-8: STAGGERED INSTALLATION PATTERN
- RSF-1: STAGGERED INSTALLATION PATTERN



1 SECOND FLOOR FINISH PLAN

1/8" = 1'-0"

N

STATE OF OHIO
THOMAS W. GATES
12169
6-26-25
REGISTERED ARCHITECT

THOMAS W. GATES
ARC.9812169
EXP. 12/31/2025

SPGB Architects
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL-REVISION RECORD

No.	DESCRIPTION	DATE	APP'VD:	DATE:

SECOND FLOOR FINISH PLAN

Eastern Regional Water Reclamation Facility Operations Building Renovation

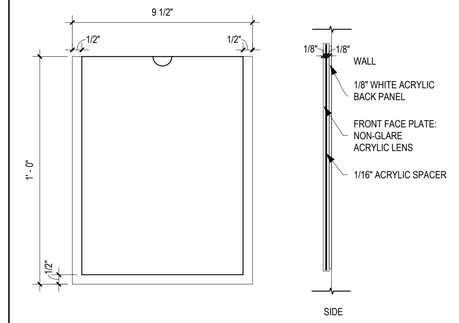
SHEET NO.

A-622

PROJ NO.: 130012-59

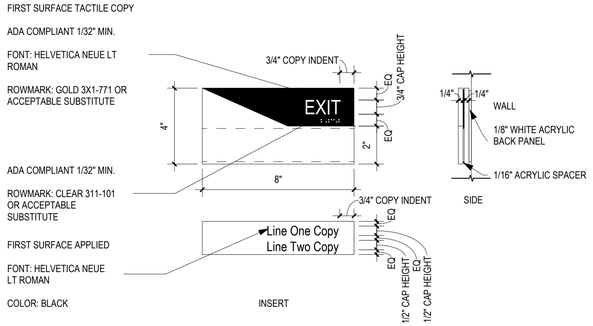
DATE: 6/25/2025

1/16" = 1'-0" | 1/8" = 1'-0" | 3/16" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"



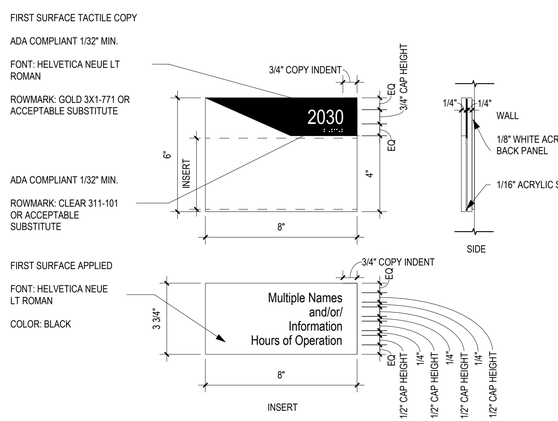
1 SIGN TYPE AA

3" = 1'-0"



2 SIGN TYPE C

3" = 1'-0"



3 SIGN TYPE C1

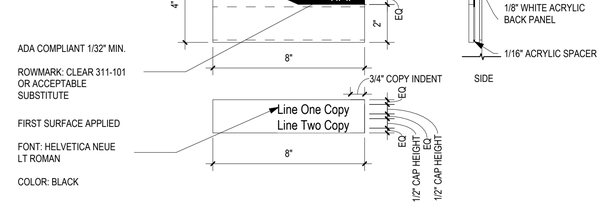
3" = 1'-0"

* ALL SIGNAGE TYPES & COPIES ARE TO BE FINALIZED WITH ARCHITECT DURING SUBMITTAL PHASE.

REMARKS
1. PROVIDE MAN/WOMAN SYMBOL
2. PROVIDE WHEEL CHAIR SYMBOL
3. PROVIDE WOMAN SYMBOL
4. PROVIDE MAN SYMBOL
5. SAFETY SIGNAGE TYPE G COPY TBD

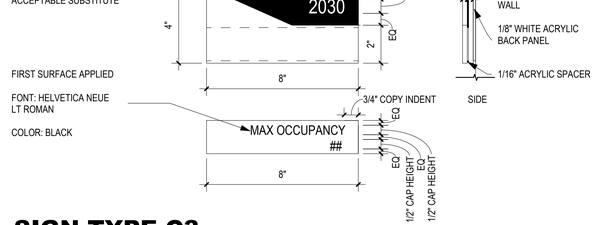
SIGNAGE SCHEDULE

DOOR NO.	SIGN TYPE	SIGN LOCATION	SIDE OF DOOR	SIGNAGE COPY	REMARKS
102-4				DRY POLYMER AREA	
102-5		2	Z	DRY POLYMER AREA	
103-1	C	1	Z	STAIRS	
108-1	C2	1	Z	UPS ROOM	
111-1	R	1	Z	WOMEN'S RESTROOM	3
116-1	C2/C3	2	Z	BREAK ROOM	
117-1	R	2	Z	MEN'S RESTROOM	4
117-3	C2	1	Z	LAUNDRY/JANITOR	
120-1	C2	2	Z	LAUNDRY/JANITOR	
120-2	C2	1	Z	LAUNDRY/JANITOR	
123-1	C2	2	Z	SCADA	
124-2	C1/G	2	Z	LABORATORY	
X133-5	C	1	Z	STAIRS	
201-2				DEWATERING AREA	
204-1	C	2	Z	STAIRS	
206-1	C2/C3	2	Z	ASSEMBLY ROOM	
206-2	C2/C3	1	Z	ASSEMBLY ROOM	
207-1	R	2	Z	RESTROOM	1
210-1	C	1	Z	STAIRS	
214-1	C1	1	Z	OFFICE	
215-1	C2/C3	1	Z	MEETING ROOM	
217-1	C1	1	Z	OFFICE	
218-1	C1	2	Z	OFFICE	
219-1				CORRIDOR	
221-1	C1	2	Z	OFFICE	
222-1	C1	1	Z	OFFICE	
223-1	R	1	Z	RESTROOM	1
X133-10	C	2	Z	STAIRS	



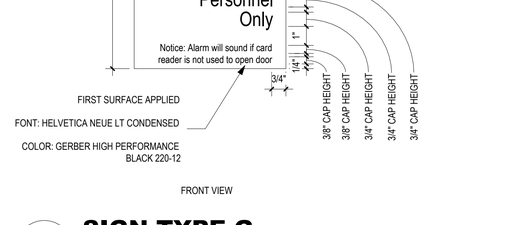
4 SIGN TYPE C2

3" = 1'-0"



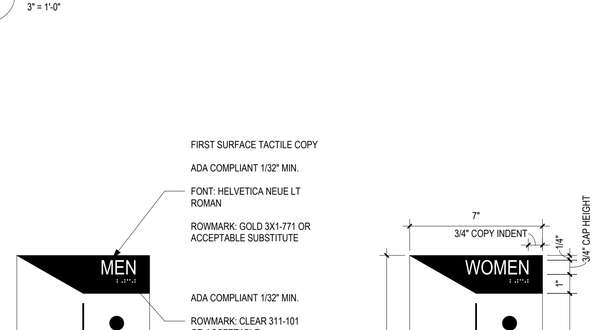
5 SIGN TYPE C3

3" = 1'-0"



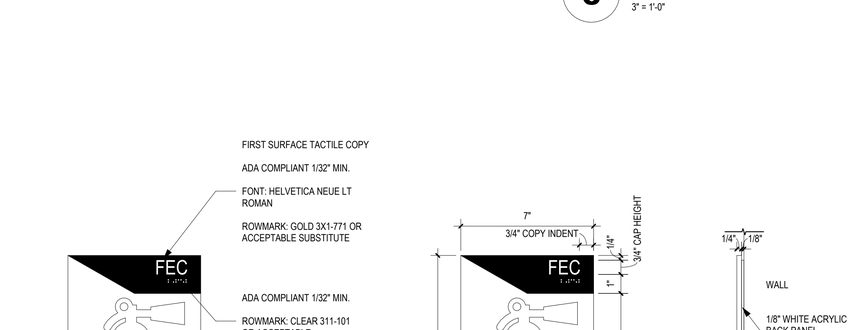
6 SIGN TYPE G

3" = 1'-0"



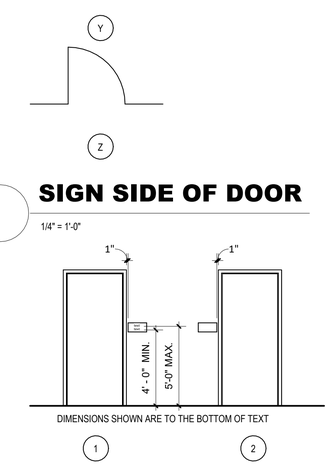
7 SIGN TYPE R

3" = 1'-0"



8 SIGN TYPE W

3" = 1'-0"



SIGN SIDE OF DOOR

1/4" = 1'-0"

SIGN LOCATIONS

1/4" = 1'-0"

STATE OF OHIO
THOMAS W. GATES
12169
6-26-25
REGISTERED ARCHITECT
THOMAS W. GATES
ARC.9812169
EXP. 12/31/2025

SPGB Architects
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DESCRIPTION	APP'VD.	DATE

SIGNAGE SCHEDULE

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.
A-630

PROJ NO.: 130012-59
DATE: 6/25/2025

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"

TSC TALL STORAGE CABINET

ASC ACID STORAGE CABINET

FSC FLAMMABLE STORAGE CABINET

FH - X CHEMICAL FUME HOOD

KS KNEE SPACE BELOW

WALL CABINET ABOVE

FIXED LAB BENCH
SEE INTERIOR ELEVATION

X A0.0

COUNTERTOP JOINT

CS1 CUP SINK - SEE LAB SINK SCHEDULE

S4 LAB SINK - SEE LAB SINK SCHEDULE

PB PEG BOARD

G1 SINGLE FITTING
V2 DOUBLE FITTING
A4 QUAD FITTING
EW1 DRENCH HOSE - REFER TO PLUMBING DWGS.
EW1 EYE / FACE WASH - REFER TO PLUMBING DWGS.
SAFETY SHOWER - REFER TO PLUMBING DWGS.

SEE PLUMBING FITTING SCHEDULE

PREFIXES:

CW	COLD WATER
HW	HOT WATER
CHW	COLD/HOT WATER
PW	PURIFIED WATER
G	NATURAL GAS
A	COMPRESSED AIR
V	VACUUM
SP	SPECIALTY GAS
N	NITROGEN GAS

(1) DATA OUTLET
(2) DATA OUTLET
(1) DUPLEX ELECTRICAL OUTLET
(2) DUPLEX ELECTRICAL OUTLET
(4) DOUBLE DUPLEX ELECTRICAL OUTLET
(2) DOUBLE DUPLEX ELECTRICAL OUTLET
(1) COMBO. DUPLEX ELECTRICAL / DATA OUTLET
(2) COMBO. DUPLEX ELECTRICAL / DATA OUTLET

SEE ELECTRICAL & DATA DEVICE SCHEDULE

PLAN DRAWINGS

DRAWER UNIT - EQUAL HEIGHT DRAWERS, UNO — 18"
SOLID HINGED DOOR UNITS — 36"
SOLID SLIDING DOOR UNITS — 36"

BASE CABINETS:
- STANDING HEIGHT UNITS (36")
- WIDTH AS NOTED
- SEE FINISH SCHEDULE FOR WALL BASE FINISH
- PROVIDE 4" BACK & SIDE SPLASHES
- SEE GENERAL LAB EQUIPMENT NOTES

36"

KNEESPACE:
- 36" W. x 22" DP.
- REMOVABLE REAR CLOSURE PANEL
- KNEESPACE RAIL & PENCIL DRAWER
- EXTEND WALL BASE 3 SIDES

BENCH ENDS:
- PROVIDE FINISH END PANEL
- RETURN WALL BASE AROUND CORNER
- PROVIDE 1" COUNTERTOP OVERHANG AT EXPOSED END
- PROVIDE FILLER AT WALL

OPEN CABINET — 36"
SOLID HINGED DOOR UNITS — 36"
GLAZED HINGED DOOR UNITS — 36"

WALL CABINETS:
- FLAT TOPS
- 14" DEEP
- WIDTH AS NOTED
- MOUNT TOP AT 84"
- PROVIDE 30" H UNITS

SOLID SLIDING DOOR UNITS — 36"
GLAZED SLIDING DOOR UNITS — 36"

OPEN SHELVING — 36"
SOLID HINGED DOOR UNITS — 36"
GLAZED HINGED DOOR UNITS — 36"

TALL STORAGE CABINETS:
- 84" H x 22" DP UNITS
- WIDTH AS NOTED
- SEE FINISH SCHEDULE FOR WALL BASE FINISH

SOLID SLIDING DOOR UNITS — 36"
GLAZED SLIDING DOOR UNITS — 36"

FUME HOOD WITH EXPOSED TOP & DUCTWORK — 60"
FUME HOOD WITH TOP CLOSURE PANELS — 60"

FUME HOODS:
- WIDTH AS NOTED
- SEE FINISH SCHEDULE FOR WALL BASE FINISH
- SEE FUME HOOD DETAIL FOR UTILITIES, BASE CAB., & OTHER DET. REQ.

MOVABLE TABLE - SEE MOVEABLE LAB TABLE SCHEDULE

ADJUSTABLE WALL SHELVING - SEE SECTION FOR DETAILED REQUIREMENTS.

KEY LOCK

EMERGENCY SAFETY SHOWER - REFER TO PLUMBING DWGS

ELEVATION DRAWINGS

1 LAB EQUIPMENT DRAWING LEGEND

1/4" = 1'-0"

GENERAL LABORATORY EQUIPMENT NOTES

GENERAL NOTES APPLY TO ALL FIXED LABORATORY EQUIPMENT, UNLESS OTHERWISE NOTED.

DOCUMENT REFERENCES

REFER TO THE FOLLOWING SPECIFICATIONS FOR FIXED LABORATORY CASEWORK & EQUIPMENT SHOWN ON (Q) SHEETS:

- [11 53 13] - LABORATORY (CHEMICAL) FUME HOODS & ASSOCIATED COUNTERTOPS & SINKS.
- [12 35 53.13] - MANUFACTURED METAL CASEWORK, LAB TABLES, INCLUDING BUT NOT LIMITED TO CHEMICAL STORAGE CABINETS, FUME HOOD BASES, UTILTIY UMBILICALS, COUNTERTOPS, SINKS, REAGENT SHELVING, LAB SHELVING, COUNTERTOP MTD FITTINGS & DEVICES, WALL-MTD FITTINGS, FUME HOOD FITTINGS & DEVICES, EMERGENCY EYE / FACE WASHES & DRENCH HOSES & PEGBOARDS.

REFER TO [12 35 53.13] METAL CASEWORK, FOR MINIMUM ENVIRONMENTAL CONDITIONS FOR COMMENCING EQUIPMENT DELIVERY.

SEE PLUMBING DWGS FOR SAFETY SHOWERS.

REFER TO ARCHITECTURAL (A) DRAWINGS FOR THE FOLLOWING WORK:

CABINETRY IN NON-LABORATORY AREAS, INCLUDING OFFICE SUPPORT ROOMS
PARTITIONS
DOORS & FRAMES
INTERIOR GLAZING
FINISH FLOORING (INCLUDING COVE BASE ON FIXED CASEWORK AND FUME HOODS)
WALL FINISHES
CEILINGS
FIRESTOPPING
INTERIOR SIGNAGE
FIRE EXTINGUISHERS
WALL & DOOR PROTECTION

REFER TO SHEET Q-500 FOR TYPICAL CASEWORK SECTIONS.

REFER TO SPECIFICATIONS "SUMMARY" FOR WORK RESPONSIBILITIES AT FIXED LABORATORY EQUIPMENT.

SEE ELECTRICAL DEVICE SCHEDULE FOR GENERAL DESCRIPTION OF DEVICES AND MOUNTING METHOD. SEE ELECTRICAL DRAWINGS FOR DETAILED REQUIREMENTS FOR COLOR CODING FOR EMERGENCY/UPS POWER & GFCI DEVICES.

LAYOUT

WALL DIMENSIONS ARE TO FINISH FACE.

CASEWORK DIMENSIONS ARE NOMINAL & MEASURED TO EDGE OF BENCH.

CONFIRM BENCH LENGTHS IN THE FIELD SO THEY FIT BETWEEN ADJACENT WALLS & COLUMNS.

MAINTAIN ADA DOOR CLEARANCES.

LOCATE CENTERLINE OF EMERGENCY SHOWERS 18" FROM ADJACENT CONSTRUCTION UON. MAINTAIN 30" MIN. CLEAR WIDTH BENEATH SHOWER HEADS.

MOUNT TOP OF PEGBOARDS AT 7'-0" AFF UON. CENTER ON SINK UON.

COORDINATE BENCH DETAILS WITH UTILITY DROPS & LATERAL RUNS - REFER TO PLUMBING, HVAC, ELECTRICAL & TECHNOLOGY DRAWINGS

CASEWORK CONSTRUCTION

TYPICAL BENCHTOPS SHALL BE STANDING HEIGHT (36"), UON.

SITTING HEIGHT WORK STATIONS SHALL BE 30" H.

ADA WORKSTATIONS SHALL BE 34" H.

FABRICATE SINK BASES WITH STAINLESS STEEL - PAINT TO MATCH OTHER CASEWORK OR COAT SINK BASES WITH MANUFACTURER'S STANDARD COATING FOR MOISTURE AND CORROSION RESISTANCE.

PROVIDE PLASTIC DRIP TRAYS IN ALL SINK BASES.

BENCHTOPS

TYPICAL BENCHTOPS & BACKSPLASHES SHALL BE 1" BLACK EPOXY RESIN.

TYPICAL LAB SINKS SHALL BE BLACK EPOXY RESIN.

PROVIDE 1" OVERHANG ON EXPOSED EDGES OF BENCHTOPS.

PROVIDE COUNTERTOP JOINTS WHERE SHOWN ON DRAWINGS. CENTER JOINTS ABOVE CABINET JOINTS BELOW.

PROVIDE 4" H BACK & SIDE SPLASHES WHERE COUNTERTOPS ABUT FIXED CONSTRUCTION. PROVIDE APPLIED SPLASHES. REFER TO ARCH DRAWINGS FOR PERIMETER SEALANT.

PROVIDE MANUFACTUER'S RECOMMENDED EPOXY ADHESIVE AROUND SINKS, AT BACKSPLASH TO WALL AND OTHER PERMANENT CONSTRUCTION AND AS INDICATED ON THE DRAWINGS.

GENERAL LABORATORY EQUIPMENT NOTES

1/8" = 1'-0"

PLUMBING FITTING SCHEDULE

PLAN DESIGNATION	GENERAL DESCRIPTION	FITTING SPECIFICATION	MOUNTING CONFIGURATION	MOUNTING SPECIFICATION	REMARKS
W1 (COLD & HOT WATER)	MIXING WATER FAUCET	6" RIGID GOOSENECK, BRASS, CHEM. RESIST. EPOXY FINISH, REMOVABLE STRAIGHT THREADED TIP, VACUUM BREAKER, WRIST HANDLES	DECK	FAUCET BODY COMPLETE W/ INTEGRAL THREADED MOUNTING SHANK & FLANGED LOCKNUT, 1/2" IPS MALE THREAD INLET W/ COUPLING NUT	INSTALL HANDLE IN-LINE W/ GOOSENECK
W2 (COLD & HOT WATER)	MIXING WATER FAUCET	6" SWINGING GOOSENECK, BRASS, CHEM. RESIST. EPOXY FINISH, REMOVABLE STRAIGHT THREADED TIP, VACUUM BREAKER, WRIST HANDLES	DECK	FAUCET BODY COMPLETE W/ INTEGRAL THREADED MOUNTING SHANK & FLANGED LOCKNUT, 1/2" IPS MALE THREAD INLET W/ COUPLING NUT	INSTALL HANDLE IN-LINE W/ GOOSENECK
W3 (PURE WATER)	SINGLE WATER FAUCET	6" RIGID GOOSENECK, BRASS, CHEM. RESIST. EPOXY FINISH, POLYPROPYLENE INTERNAL. CONSTRUCTION	DECK	1/2" IPS SHANK W/ LOCKNUT & WASHER, 3/8" O.D. COMPRESSION INLET	
CW41 (COLD WATER)	SINGLE COLD WATER VALVE, FUME HOOD	BALL VALVE, FORGED BRASS BODY, A.R.F. BRASS BALL, BRASS 4-ARM HANDLE, QUARTER TURN ON-OFF CONTROL, 75 PSI MAX. WORKING PRESSURE, CHEM. RESIST. EPOXY FINISH	FACE OF FUME HOOD SIDEWALL	REMOTE CONTROL, BRASS PANEL-MOUNTED BODY 6" RIGID GOOSENECK, MOUNTING SHANK, FLANGE, LOCKNUT, CHEM. RESIST. EPOXY FINISH	CENTER OUTLET ON CUPSINK
CW43 (COLD WATER)	SINGLE COLD WATER, DECK	6" RIGID GOOSENECK, BRASS, CHEM. RESIST. EPOXY FINISH, REMOVABLE STRAIGHT SERRATED TIP, VACUUM BREAKER, WRIST HANDLES	DECK	FAUCET BODY COMPLETE W/ INTEGRAL THREADED MOUNTING SHANK & FLANGED LOCKNUT, 1/2" IPS MALE THREAD INLET W/ COUPLING NUT	INSTALL HANDLE IN-LINE W/ GOOSENECK (OPPOSITE OF CUPSINK)

LABORATORY SINK SCHEDULE

PLAN DESIGNATION	DESCRIPTION	MATERIAL	INSTALLATION	INSIDE BOWL DIMENSIONS			REMARKS
				WIDTH	DEPTH	HEIGHT	
S1	SINGLE BOWL	EPOXY RESIN, BLACK	UNDER MOUNT	28"	15"	12"	PROVIDE BLACK POLY SINK OUTLET W/ LOCKNUT. 1 1/2" IPS MALE STRAIGHT THREAD OUTLET
S2	DOUBLE BOWL	EPOXY RESIN, BLACK	UNDER MOUNT	30"	18"	18"	PROVIDE BLACK POLY SINK OUTLET W/ LOCKNUTS. 1 1/2" IPS MALE STRAIGHT THREAD OUTLET
S3	SINGLE BOWL (ADA)	EPOXY RESIN, BLACK	DROP-IN	18"	15"	5"	PROVIDE BLACK POLY SINK OUTLET W/ LOCKNUTS. 1 1/2" IPS MALE STRAIGHT THREAD OUTLET
CS1	CUPSINK	POLYOLEFIN RESIN, BLACK	DROP-IN, FUME HOOD	3"	6"	--	PROVIDE REMOVABLE STRAINER. 1 1/2" IPS MALE STRAIGHT THREAD OUTLET

ELECTRICAL & DATA DEVICE SCHEDULE

PLAN DESIGNATION	GENERAL DESCRIPTION	DEVICE SPECIFICATION	MOUNTING CONFIGURATION	BACK BOX TYPE	COVER PLATE	REMARKS
E1	DUPLEX RECEPTACLE	125-V, 20-A, NEMA 5-20R, POLARIZED, 3-WIRE, GROUNDED, WHITE COLOR				
E2	DATA JACK	SINGLE GANG - 6 PORT JACK. CAT-6. 8-PIN CONNECTOR (FCC PART 68, SUBPART F AND IEC-603-7 COMPLIANT). DURABILITY - 1,000 MATING CYCLES. CONTACT PLATING MATERIAL - MINIMUM 50 MICRO-INCHES GOLD OVER NICKEL. CURRENT RATING - 1.5-A MAX. GAS-TIGHT CONNECTION - INSULATION DISPLACEMENT OF 22 TO 24 AWG PLASTIC INSULATED SOLID COPPER CONDUCTORS. UL 94V-0, PLASTIC HOUSING, UL 1863.				
E11	(1) DUPLEX RECEPTACLE, PEDESTAL	(1)E1	DECK	PEDESTAL, SINGLE FACE, CHEM RESIST. EPOXY FINISH	SS	NOTE 1
E12	(2) DUPLEX RECEPTACLE, PEDESTAL	(2)E1	DECK	PEDESTAL, DOUBLE FACE, CHEM RESIST. EPOXY FINISH	SS	NOTE 1
E21	(2) DUPLEX RECEPTACLE, PEDESTAL	(2)E1	DECK	PEDESTAL, SINGLE FACE, CHEM RESIST. EPOXY FINISH	SS	NOTE 1
E22	(4) DUPLEX RECEPTACLE, PEDESTAL	(4)E1	DECK	PEDESTAL, DOUBLE FACE, CHEM RESIST. EPOXY FINISH	SS	NOTE 1
E41	(1) DUPLEX RECEPTACLE, FUME HOOD	(1)E1	FUME HOOD SIDEWALL	GALVANIZED STEEL BOX	SS	NOTE 2
E51	(1) DATA JACK, PEDESTAL	(1)E2	DECK	PEDESTAL, SINGLE FACE, CHEM RESIST. EPOXY FINISH	SS	

NOTE 1: PROVIDE GFCI (GROUND FAULT INTERRUPT) RECEPTACLES AT ALL LOCATIONS WITHIN 6' OF SINKS
NOTE 2: PROVIDE GFCI (GROUND FAULT INTERRUPT) RECEPTACLE AT FUME HOOD LOCATIONS

GENERAL LABORATORY EQUIPMENT NOTES

1/8" = 1'-0"

STATE OF OHIO
THOMAS W. GATES
12169
6-26-25
REGISTERED ARCHITECT

THOMAS W. GATES
ARC.9812169
EXP. 12/31/2025

SPGB Architects
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'VD.	DATE

STANDARD LAB SCHEDULES AND DETAILS

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.
Q-001

PROJ NO.: 130012-59
DATE: 6/25/2025

1/16" = 1'-0" 0 4' 8' 16'

1/8" = 1'-0" 0 2' 4' 8'

3/16" = 1'-0" 0 2' 4' 8"

1/4" = 1'-0" 0 1' 2' 4'

3/8" = 1'-0" 0 1' 2' 4'

1/2" = 1'-0" 0 6" 1' 2'

3/4" = 1'-0" 0 3" 6" 1' 2'

1" = 1'-0" 0 3" 6" 1' 2'

1 1/2" = 1'-0" 0 3" 6" 1'

3" = 1'-0" 0 1" 2" 3" 6" 1'

6" = 1'-0" 0 1" 2" 3" 6"

GENERAL NOTES

A. REFER TO SHEET Q-001 FOR LAB SCHEDULES, ABBREVIATIONS & SYMBOLS.

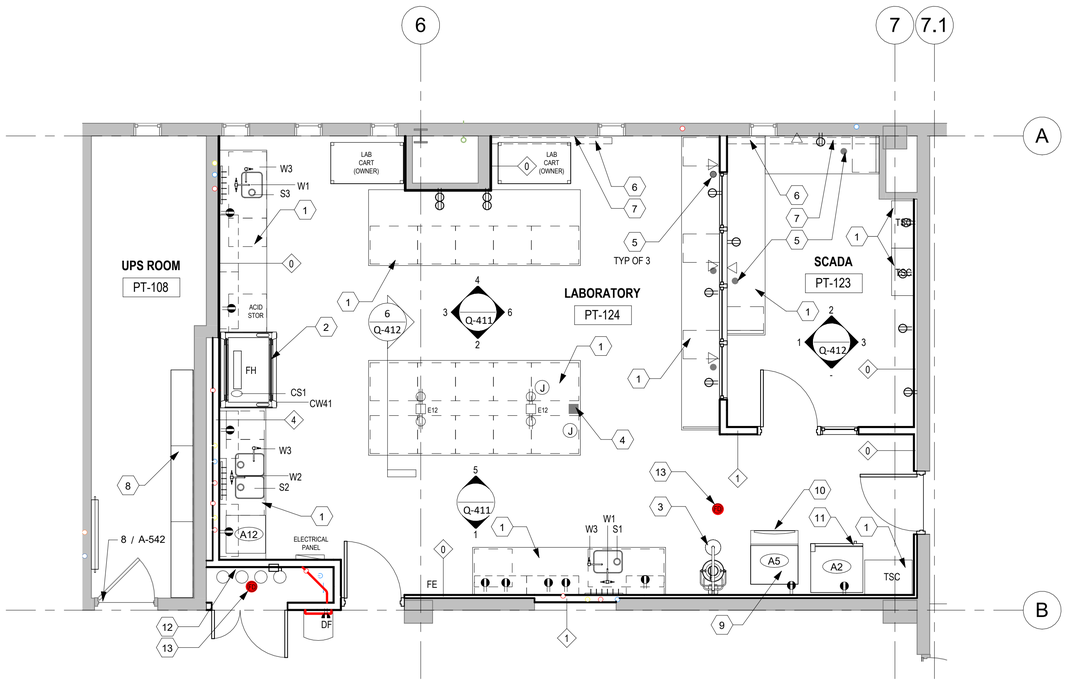
B. CERAMIC TILE BACKSPLASH (CTB) TO CONTINUE BEHIND PEGBOARDS AND EQUIPMENT. REFER TO ELEVATIONS FOR LOCATIONS.

C. REFER TO APPLIANCE SPECIFICATIONS FOR ALL APPLIANCES MARKED (Ax)

D. REFER TO SHEET A-520 FOR PARTITION TYPES.

CODED NOTES (X)

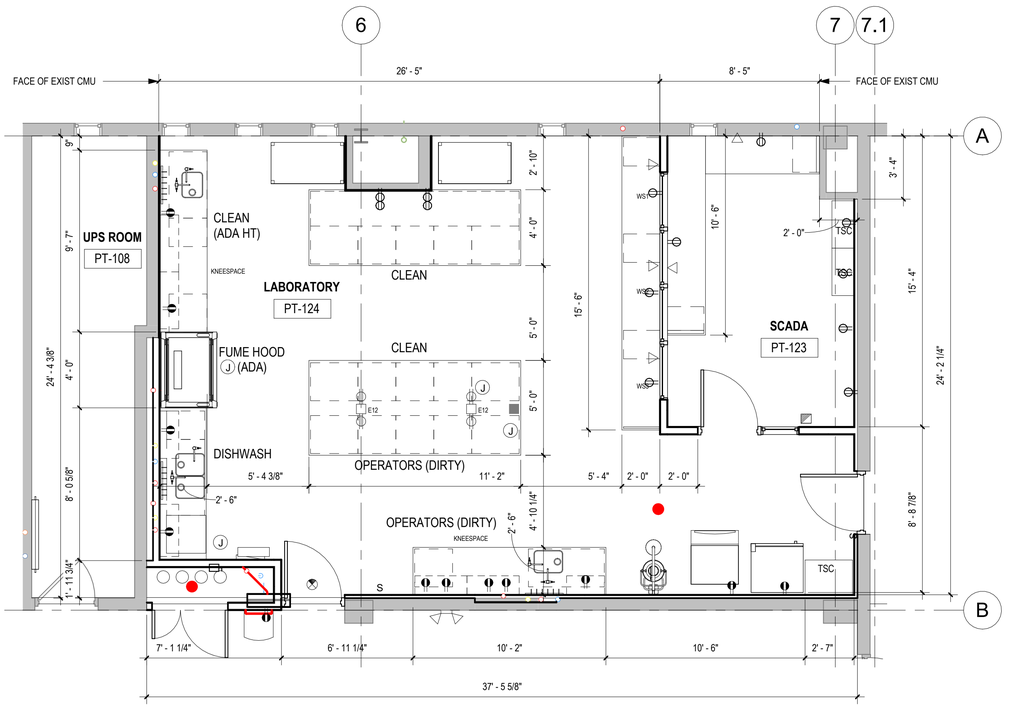
1	LAB CASEWORK, TYP.
2	CHEMICAL FUME HOOD – TYP. SEE LAB WORKSTATION PLANS.
3	PROVIDE HC DELUGE SAFETY SHOWER & FACE WASH. REFER TO PLUMBING DRAWINGS.
4	POWER POLE, REFER TO ELECTRICAL DWGS.
5	PROVIDE 3" GROMMET IN EPOXY TOP. COORDINATE FINAL LOCATION W/ OWNER.
6	PAINT EXISTING MTL FRAME & X-BRACING.
7	PROVIDE EPOXY TOP W/ 1" OVERHANG ON EXIST CLOSURE PANEL WITHIN MTL WALL FRAMING. ADHERE GYP TO FACE & PAINT TO MATCH ADJACENT WALL FINISH.
8	PROVIDE THREE (3) 14"X48"X72"METAL STORAGE SHELVING UNITS [10 56 13]
9	FLOOR DRAIN TO BE LOCATED BENEATH ICE MACHINE.
10	PROVIDE ICE MACHINE. REFER TO MEP DRAWINGS.
11	PROVIDE REFRIGERATOR. REFER TO MEP DRAWINGS.
12	PROVIDE 12GA SLOTTED STRUT CHANNEL EQUAL TO UNISTRUT P1000T, TYP @ 12" AFF & 42" AFF ENTIRE LENGTH OF WALL @ CYLINDER STORAGE AREA. PROVIDE UP TO FOUR (4) GAS CYLINDER CHAIN SETS EQUAL TO FIRST SAFETY 35366.
13	PROVIDE FLOOR DRAIN. REFER TO MEP DRAWINGS.



1 LAB FLOOR PLAN

1/4" = 1'-0"

REFER TO 2/Q-401 FOR LAB DIMENSION PLAN



2 LAB DIMENSION PLAN

1/4" = 1'-0"

STATE OF OHIO
THOMAS W. GATES
12169
6-26-25
REGISTERED ARCHITECT

THOMAS W. GATES

ARC.9812169

EXP. 12/31/2025

SPGB Architects
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

No.	DESCRIPTION	DATE	APP'VD:	DATE:
	SUBMITTAL/REVISION RECORD			

ENLARGED LAB PLANS

Eastern Regional Water Reclamation Facility Operations Building Renovation

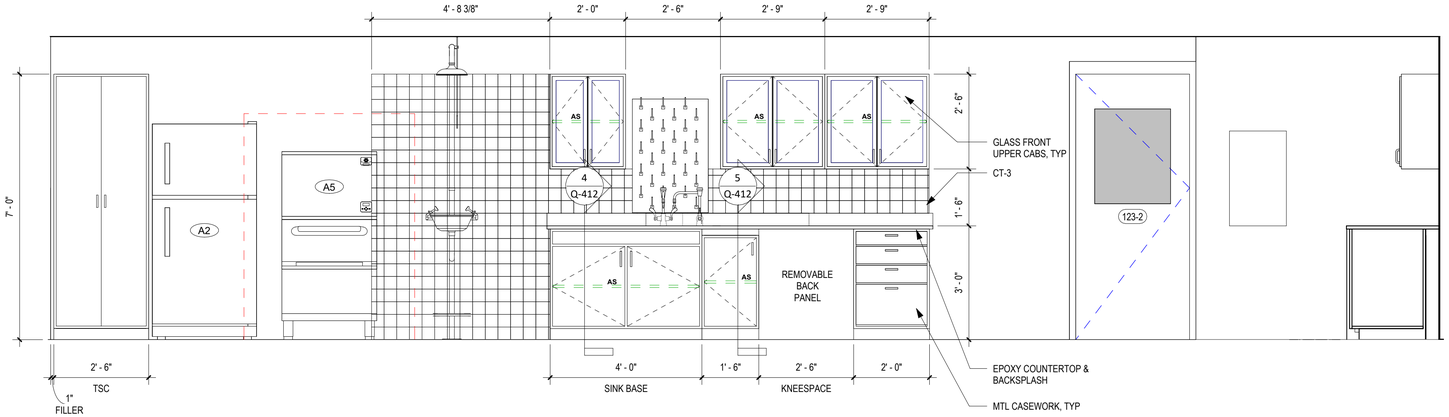
SHEET NO.

Q-401

PROJ NO.: 130012-59

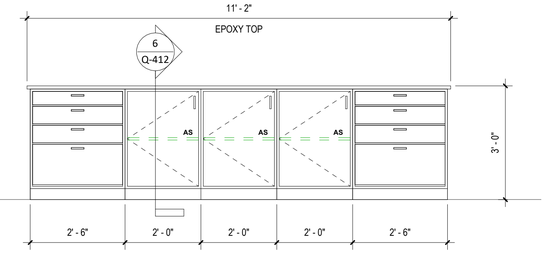
DATE: 6/25/2025

1/16" = 1'-0" 0 4" 8" 16' | 1/8" = 1'-0" 0 2' 4' 8' | 3/16" = 1'-0" 0 2' 4' 8' | 1/4" = 1'-0" 0 1' 2' 4' | 3/8" = 1'-0" 0 1' 2' 4' | 1/2" = 1'-0" 0 6" 1' 2' | 3/4" = 1'-0" 0 3" 6" 1' 2' | 1" = 1'-0" 0 3" 6" 1' 2' | 1 1/2" = 1'-0" 0 3" 6" 1' | 3" = 1'-0" 0 1" 2" 3" 6" 1' | 6" = 1'-0" 0 1" 2" 3" 6"



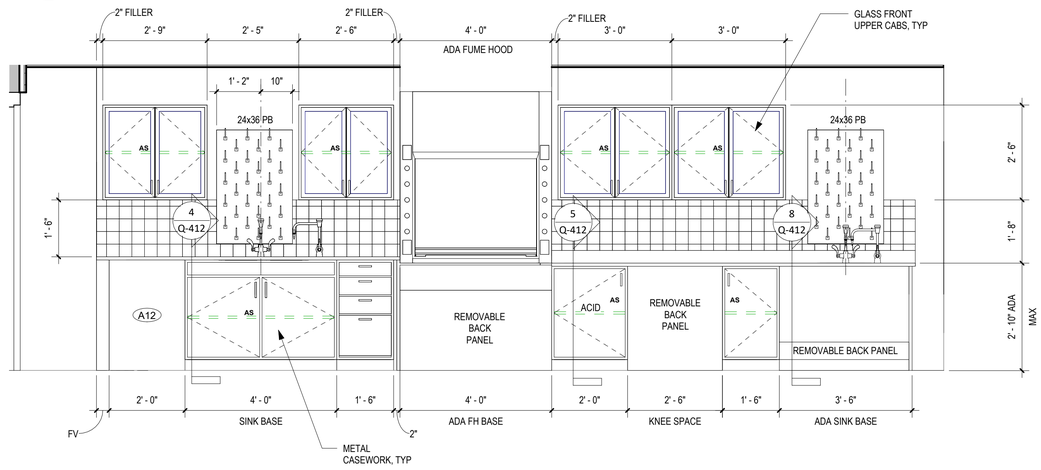
1 ELEV - SOUTH

1/2" = 1'-0"



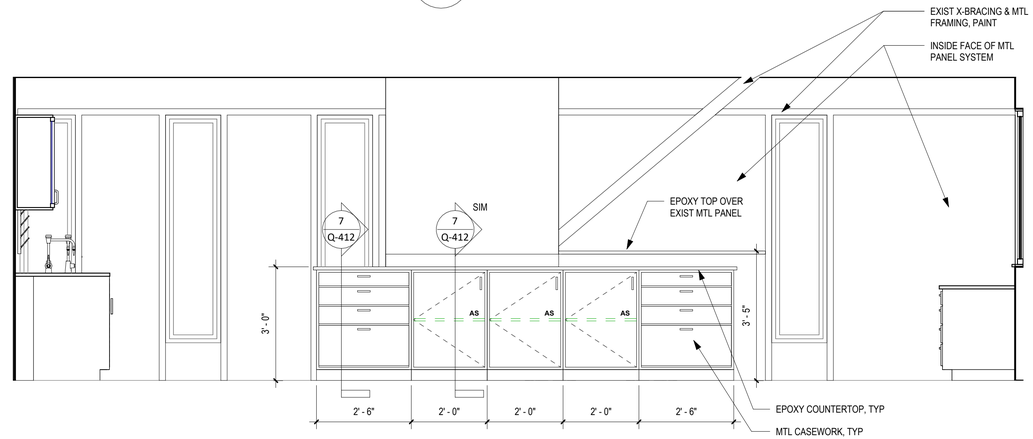
2 ELEV - TYP ISLAND

1/2" = 1'-0"



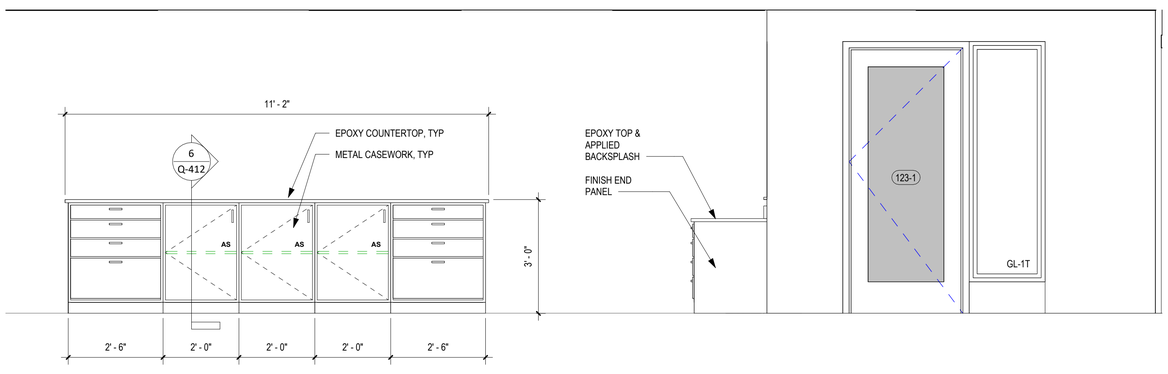
3 ELEV - WEST

1/2" = 1'-0"



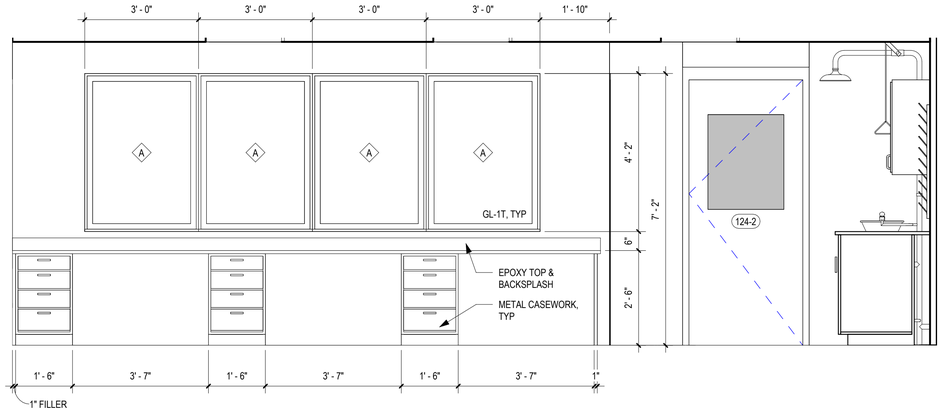
4 ELEV - NORTH

1/2" = 1'-0"



5 ELEV - ISLAND 1

1/2" = 1'-0"



6 ELEV - WORKSTATION

1/2" = 1'-0"

STATE OF OHIO
THOMAS W. GATES
12169
6-26-25
REGISTERED ARCHITECT

THOMAS W. GATES
ARC.9812169
EXP. 12/31/2025

SPGB Architects
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD				
No.	DATE	DESCRIPTION	APP'VD:	DATE:

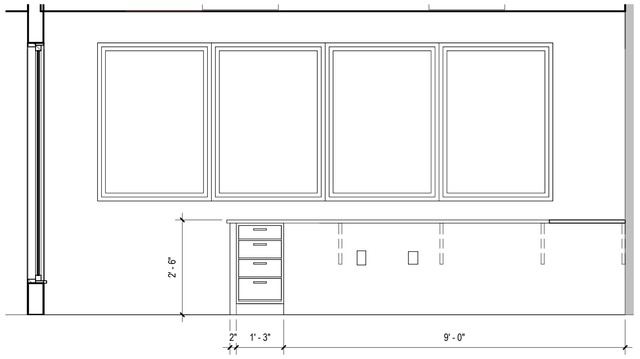
LAB CASEWORK ELEVATIONS

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.
Q-411

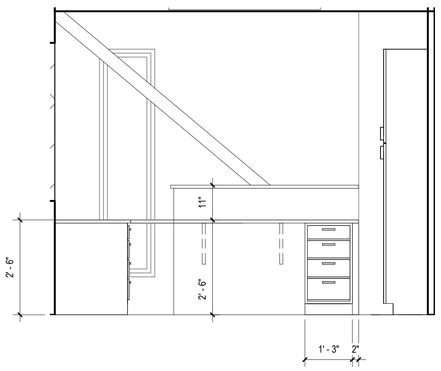
PROJ NO.: 130012-59
DATE: 6/25/2025

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



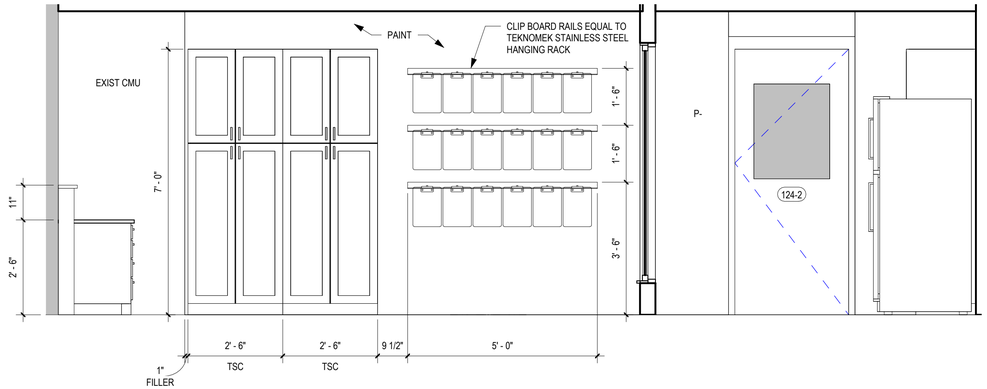
1 ELEV - SCADA WEST

1/2" = 1'-0"



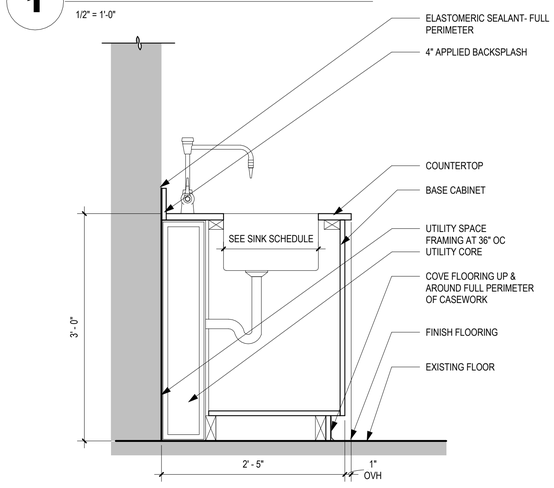
2 ELEV - SCADA NORTH

1/2" = 1'-0"



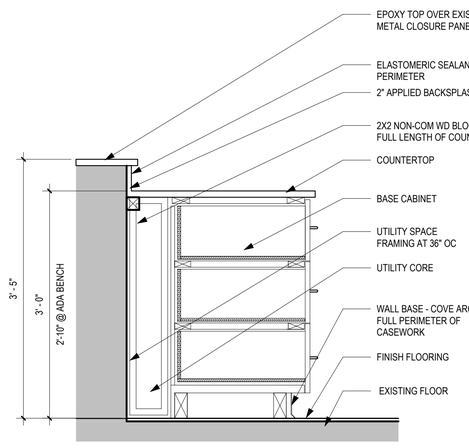
3 ELEV - SCADA EAST

1/2" = 1'-0"



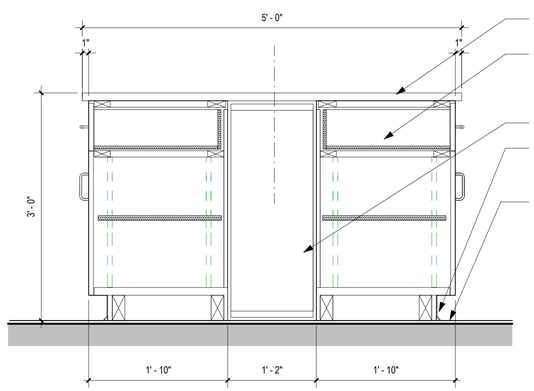
4 SECT - TYP SINK BASE w/ UTILITY CORE

1" = 1'-0"



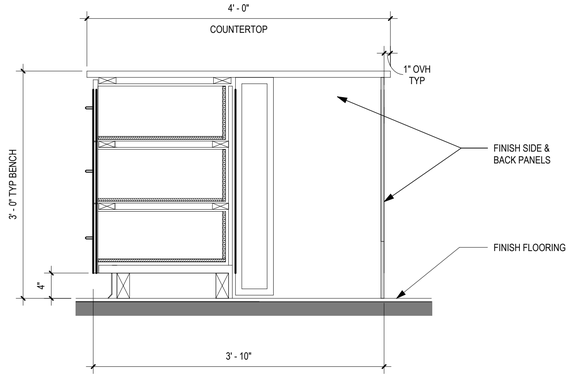
5 SECT - TYP WALL BENCH w/ UTILITY CORE

1" = 1'-0"



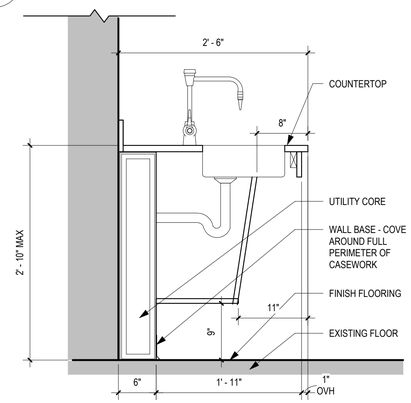
6 SECT - TYP ISLAND

1" = 1'-0"



7 SECT - TYP PENINSULA

1" = 1'-0"



8 SECT - TYP ADA SINK BASE w/ UTILITY CORE

1" = 1'-0"

STATE OF OHIO
THOMAS W. GATES
12169
6-26-25
REGISTERED ARCHITECT

THOMAS W. GATES
ARC.9812169
EXP. 12/31/2025

SPGB Architects
4333-A TULLER ROAD
DUBLIN, OHIO 43017
PHONE: (614) 771-8963

DESIGNED BY: SPGB ARCHITECTS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'D:	DATE:

LAB CASEWORK ELEVATIONS AND TYPICAL DETAILS

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.
Q-412

PROJ NO.: 130012-59
DATE: 6/25/2025

1/16" = 1'-0" 0 4' 8' 16'

1/8" = 1'-0" 0 2' 4' 8'

3/16" = 1'-0" 0 2' 4' 8'

1/4" = 1'-0" 0 1' 2' 4'

3/8" = 1'-0" 0 1' 2' 4'

1/2" = 1'-0" 0 6" 1' 2'

3/4" = 1'-0" 0 3" 6" 1' 2'

1" = 1'-0" 0 3" 6" 1' 2'

1 1/2" = 1'-0" 0 3" 6" 1'

3" = 1'-0" 0 1" 2" 3" 6" 1'

6" = 1'-0" 0 1" 2" 3" 6"

ABBREVIATIONS

@	At
A.B.	Anchor Bolt
AESS	Architecturally Exposed Structural Steel
AP	Aggregate Pier
ARCH.	Architect or Architectural
BLDG.	Building
BLKG.	Blocking
B.O.F.	Bottom of Footing
B.O.S.	Bottom of Steel
BOTT.	Bottom
BRG.	Bearing
CANT.	Cantilever
C.F.M.F.	Cold Formed Metal Framing
C.J.	Control Joint
CJP	Complete Joint Penetration
CLR.	Clear
CLSM	Controlled Low Strength Material
CMU	Concrete Masonry Unit
COL.	Column
CONC.	Concrete
CONN.	Connection
CONST.	Construction
CONT.	Continuous
CONTR.	Contractor
COORD.	Coordinate
C.W.	Curtain Wall
DET.	Detail
DIA. or ø	Diameter
DIAG.	Diagonal or Diagram
DWG.	Drawing
DWL.	Dowel
E.F.	Each Face
E.J.	Expansion Joint
EL.	Elevation
ELEV.	Elevator
EMBED.	Embedment
E.O.S.	Edge of Slab
E.O.P.	Edge of (bent) Plate
E.W.	Each Way
EX.	Existing
EXT.	Exterior
F.F.S.	Frost-Free Slab
F.S.	Far Side
FTG.	Footing
F.V.	Field Verify
GA.	Gauge or Gage
GALV.	Galvanized
H.P.	High Point
HORIZ.	Horizontal
I.F.	Inside Face
INT.	Interior
JT.	Joint
LLH	Long Leg Horizontal
LLV	Long Leg Vertical
LOC.	Location
L.P.	Low Point
LT. WT.	Lightweight
MASY.	Masonry
MAX.	Maximum
MECH.	Mechanical
MIN.	Minimum
N.F.	Near Face
N.I.C.	Not In Contract
N.T.S.	Not To Scale
O.C.	On Center
O.F.	Outside Face
OPNG.	Opening
OPP.	Opposite
P.C.	Precast
PJP	Partial Joint Penetration
R.	Radius
REF.	Reference
REINF.	Reinforcing or Reinforcement
REQD.	Required
SECT.	Section
SIM.	Similar
S.O.G.	Slab On Ground
S.S.	Stainless Steel
STIFF.	Stiffener or Stiffened
T&B	Top And Bottom
T.B.D.	To Be Determined
T.O.C.	Top of Concrete
T.O.F.	Top of Footing
T.O.S.	Top of Steel
T.O.W.	Top of Wall
TYP.	Typical
U.O.N.	Unless Otherwise Noted
VERT.	Vertical
W/	With
WWR	Welded Wire Reinforcement
W.P.	Work Point

CODES AND STANDARDS

1. New construction has been designed to, and shall be constructed in accordance with the following building codes and standards:
   A. 2024 Ohio Building Code (OBC 2024)
   B. 2024 Ohio Existing Building Code (OEBC 2024)
   C. ASCE 7-16, Minimum Design Loads and Associated Criteria for Buildings and Other Structures
2. Unless explicitly modified in the Contract Drawings and Specifications, the Contractor shall comply with provisions of:
   A. ACI 301-20, Specifications for Structural Concrete
   B. ACI 318-19, Building Code Requirements for Structural Concrete
   C. ACI 562-21, Code Requirements for Assessment, Repair, and Rehabilitation of Existing Concrete Structures
   D. AWS D1.1-15, Structural Welding Code - Steel

DESIGN LOADS

Floor live load (unless otherwise noted)

Operations Building (Renovated floor spaces) ---------- 100 psf (1)
(1) Includes 15 psf partition allowance, unreduced (OBC 1607.5)

Roof live load ---------- Not applicable

Roof snow load data ---------- Not applicable

Wind design data ----------

Ultimate design wind speed (OBC Figure 1609.3) ---------- V_{ult} = 115 mph
Nominal design wind speed (OBC 1609.3.1) ---------- V_{asd} = 89 mph
Risk category (OBC, Table 1604.5) ---------- III
Exposure category (OBC 1609.4) ---------- C
Internal pressure coefficient (ASCE 7, Table 26.13-1) ---------- GCpi = 0.18±
Components and Cladding
Effective Wind Area ---------- 20 ft² (2)
Zone 4 (Wall Interior) ---------- +29.5, -32.1 psf
Zone 5 (Wall Corner) ---------- +29.5, -38.6 psf

(+) Indicates pressure acting toward the surface
(-) Indicates pressure acting away from the surface

(2) Components and cladding engineer may calculate wind loads based on actual effective wind area per ASCE 7

Earthquake design data

Risk category (OBC, Table 1604.5) ---------- III
Seismic importance factor (ASCE 7, Table 1.5-2) ---------- I_e = 1.25
Mapped spectral response acceleration parameters
Short period ---------- S_s = 0.142 g
1-second period ---------- S_1 = 0.07 g
Site class (Assumed) ---------- D
Design spectral response acceleration parameters
Short period ---------- S_{ds} = 0.151 g
1-second period ---------- S_{d1} = 0.112 g
Seismic design category ---------- B

Alterations are in accordance with ASCE 7, Appendix 11B.4. Proposed structural alterations comply with OBC requirements for new structures. Additionally, proposed alterations do not increase the seismic force in any existing structural element by more than 10 percent, nor do they decrease the design strength of any existing structural element to resist seismic forces by more than 10 percent. Therefore, further analysis and design of the existing structure for seismic force-resistance are not required.

Special loads ---------- Not applicable

DESIGN STRESSES

Concrete minimum compressive strength in 28 days:
Interior slabs---------- f'_c = 4,000 psi
Structural concrete subject to freezing and thawing ---------- f'_c = 5,000 psi
Topping slab ---------- f'_c = 3,000 psi
Reinforcing bars (ASTM A615, Grade 60) ---------- F_y = 60,000 psi
Welded wire reinforcement (ASTM A1064) ---------- F_y = 70,000 psi
Structural steel shapes (ASTM A36) ---------- F_y = 36,000 psi
Masonry ---------- f'_m = 2,000 psi
Mortar (ASTM C270) ---------- Type M or S

GENERAL

1. All new construction shall comply with the Contract Documents and the Building Code.
2. Typical details and general notes apply to all parts of the work except where specifically detailed or unless otherwise noted.
3. The structural drawings illustrate structural members. Refer to architectural, mechanical, and electrical drawings for non-structural items which require special provisions during the construction of the structural members.
4. Drawings are not to be scaled.
5. Refer to architectural plans for openings, non-bearing partitions, etc. Refer to mechanical and electrical plans for sleeves, openings, and hangers for pipes, ducts, and equipment.
6. No pipes or ducts shall be embedded into structural members unless so shown on the plans or approved by the Engineer.
7. The Contractor shall verify and be responsible for all dimensions and conditions which impact the work. Field verify sizes, elevations, hole locations, etc., prior to fabrication.
8. The Contractor shall carefully review the drawings to identify the scope of work required, visit the site to relate the scope of work to existing conditions and determine the extent to which those conditions and physical surroundings will impact the work.
9. The Contractor shall resolve any conflicts on the drawings or in the specifications with the Architect/Engineer before proceeding with the work.
10. Any deviation, modification, or substitution from the approved set of structural drawings shall be submitted to the Owner, Architect, and Engineer for review/approval prior to its use or inclusion on the shop drawings.
11. The Contractor shall provide means, method, techniques, sequence, and procedure of construction as required.
12. The Contractor shall protect all work, materials, and equipment from damage and shall provide proper storage facilities for materials and equipment during construction.
13. Site visits performed by the Architect/Engineer do not constitute inspections of means and methods of construction performed by the Contractor.
14. Structural observations performed by the Architect/Engineer during construction are not the continuous and special inspection services and do not waive the responsibility for the inspections required of the Building Department Inspector or the testing agency. Observations also do not guarantee the Contractor's performance and shall not be considered as supervision of construction.
15. The Contractor shall review shop drawings for completeness and compliance with contract documents. The Contractor shall stamp shop drawings prior to submission to the Architect and Engineer.
16. Existing conditions as shown on these plans are for reference only. The Contractor is required to field verify all existing conditions prior to construction.

ROOF, FLOOR, OR WALL OPENINGS

1. The Contractor shall verify and coordinate the number, size, and location of all sleeves and openings required for mechanical or electrical items.
2. No structural elements are to be cut unless specifically approved by the Engineer.

DEMOLITION

1. Notify all local agencies having jurisdiction.
2. Before undertaking any demolition work, ascertain the existing conditions of the properties and buildings adjoining or in close proximity to the premises by survey.
3. Contractor shall perform all work in such a manner as to protect existing and adjacent structures and be responsible to properly repair any damage that occurs as a result of his work. Contractor shall repair all damage to streets, sidewalks, utility lines, or any other public or private properties resulting from the execution of the work at no cost to the Owner or Engineer.
4. Cease operations and notify Owner and Engineer immediately if safety or integrity of structure appears to be endangered. Properly brace and support structure before resuming operations.
5. Notify Owner and Engineer immediately if any portion of existing structure which is not to be demolished is damaged. Contractor shall pay for all repair costs, including design and inspection expenses.
6. Do not cut or alter any structural members without written authorization of the Engineer unless indicated on the structural drawings.
7. Do not allow resulting debris to accumulate. Dispose of this material in a legal manner.

CONCRETE CONSTRUCTION

1. All concrete construction shall be in accordance with the latest Building Code Requirements for Structural Concrete ACI 318 and ACI Detailing Manual, except that construction and removal of forms and reshoring shall be inspected by the Contractor's engineer.
2. Furnish bar supports where necessary during construction.
3. Provide plastic-coated (not plastic-tipped) chairs in all concrete exposed to view in completed structure.
4. Provide pipe sleeves and inserts in concrete work where required. See architectural and mechanical drawings.
5. Drawings show typical reinforcing conditions. Contractor shall prepare detailed placement drawings of all conditions showing quantity, spacing, sizes, clearances, laps, intersections, and coverage required by the structural details, applicable code, and trade standards. Contractor shall notify reinforcing inspector of any adjustments from typical conditions which are proposed in placement drawings to facilitate field placement of reinforcing steel and concrete.
6. Bar bends shall be made cold. Bars shall not be bent after any portion of the bar is encased in concrete.
7. Splices (grade 60 deformed bars):
   A. Lap all compression splices 30 bar diameters of the larger bar.
   B. Lap all tension splices in accordance with the following tables. Provide Class B Tension Lap Splices unless otherwise noted.
   C. Top bars are defined as horizontal bars with more than 12" of fresh concrete below.
   D. Mechanical splices shall develop 125% of the yield strength of the bar and are required for tension tie members and splices with #14 or #18 bars. Mechanical splices in adjacent bars shall be staggered at least 30 inches.

LOOSE LINTEL SCHEDULE

1. Interior lintels shall be shop painted.
2. Bottom plates in beam/plate assemblies shall be 1/2" less in width than the supported masonry wall. Stop end of bottom plates 1/2" from edge of opening.
3. Weld bottom plates to lintels with continuous fillet welds (exterior side).
4. Lintels shall have minimum bearing at each end of 1" per foot of opening (6" minimum).
5. Lintels shall have 8" minimum solid masonry below bearing points and shall extend beyond the full bearing area.
6. Lintel bearing plates shall be held back 1/2" minimum from face of masonry at opening. Provide flexible caulk between lintel and masonry at this location. Match mortar color.
7. The following schedules apply to all non-bearing masonry walls and to bearing walls where lintels are not indicated on the structural drawings. See drawings for other lintels in bearing walls.
   A. For 4", 8", 12", and 16" walls, provide one angle for each 4" of masonry wall thickness with 3 1/2" leg horizontal as follows:

Span Limits	Angle Size
0'-0" to 4'-0"	L3 x 3 1/2 x 1/4
4'-1" to 5'-6"	L4 x 3 1/2 x 5/16
5'-7" to 7'-6"	L5 x 3 1/2 x 5/16
7'-7" to 9'-6"	L6 x 3 1/2 x 3/8

   B. For 6" walls provide:

Span Limits	Lintel Size
0'-0" to 4'-0"	WT5x6
4'-1" to 5'-6"	WT5x8.5
5'-7" to 9'-6"	WT7x11 (interior) WT7x13 (exterior)

STEEL CONSTRUCTION

1. Steel detailing, fabrication, and erection shall conform to the AISC Specification for Structural Steel Buildings and Code of Standard Practice, and the AWS Structural Welding Code.
2. Stresses occurring during fabrication, shipment, and erection shall be temporary and not excessive. Stresses at all times shall be less than design and allowable stresses. The full design and load-carrying capacity of the steel work shall not be impaired due to fabrication, shipment, or erection procedures. Throughout the complete process, the stability of all individual members and assembles shall be maintained.
3. The Contractor shall be responsible for the control of all erection procedures and sequences with relation to temperature differentials and weld shrinkage.
4. All additional steel required for erection purposes shall be provided at no additional cost and shall be removed unless approved by the Owner in writing.
5. Connections - welded or high strength bolted (U.O.N.):
   A. Bolts shall be ASTM F3125 and shall be installed in accordance with "Specifications for Structural Joints Using High-Strength Bolts".
   B. Provide bearing type connections with thread included in the shear plane for all connections.
   C. Provide hardened washers under nuts at all high-strength bolts, except where plate washers are used per AISC Specifications.
   D. All bolts should be tightened to full pretensioning load.
   E. Use standard holes with the following exceptions: oversize holes are permitted when bolts are loaded in tension; short slotted holes are permitted for shear loading perpendicular to the slot.
6. Welding electrodes shall be E70XX.
7. Shop drawings are required and shall note type of electrodes, size of all welds, and type and size of all bolts.
8. Primer, unless otherwise noted on Architecture drawings/specifications:
   A. Clean surfaces to remove loose rust and mill scale and spatter, slag, or flux deposits. Prepare surfaces according to the following specifications and standards: SSPC-SP 2, "Hand Tool Cleaning" for all steel other than Architecturally Exposed Steel and steel to receive galvanizing; SSPC-SP 6/NACE No. 3, "Commercial Blast Cleaning" for Architecturally Exposed Steel.
   B. Omit paint at areas to be welded.
   C. Interior steel: Provide chemically active, modified alkyd primer at 2.5 mils dry thickness.
   D. Exterior steel: Provide fast-curing, two-component, moisture-cured, zinc-rich urethane primer for exterior steel at 3.0 mils dry thickness. Coordinate with architect for final paint color (top coat).
   E. Galvanized steel: Provide where noted.
9. Beams bearing on masonry shall have angle wall anchors and bear a minimum of 8" onto the wall.
10. See all contract drawings for miscellaneous steel requirements.
11. All shop and field welding shall be performed by a recently certified welder.
12. All welding and high strength bolting must be inspected by a qualified testing laboratory.
13. Miscellaneous hanging loads such as stair stringers, pipes, mechanical units, etc., supported by steel members shall be applied in such a manner that no torsional forces are induced in the steel members, i.e., loads shall pass through the centerline of wide flange sections and through the shear center of channels.

POST-INSTALLED ANCHORS

1. Anchorage to hardened concrete shall include torque controlled expansion anchors and adhesive anchors of size, number and spacing as shown on the drawings.
2. All anchors shall be installed in accordance with the Manufacturer's Printed Installation Instructions (MPII).
3. Existing reinforcing bars in the concrete may conflict with specific anchor locations. Reinforcing bars shall not be cut unless specifically noted on the drawings or approved by the Engineer of Record. The contractor shall review the structural drawings and shall locate the position of reinforcing bars in the vicinity of the anchors, by ground penetrating radar (GPR), x-ray, or other means.
4. Anchors shall be installed in holes drilled with a rotary impact hammer drill. Core drilling of holes is not permitted. Holes and anchor shall be thoroughly cleaned per the MPII prior to installation of the anchor.
5. Installed adhesive anchors shall be securely held in-place to prevent displacement while the adhesive cures.
6. Quality Control:
   A. All anchors shall be periodically inspected to meet the requirements of MPII and the ICC-ES ESR report for the product.
   B. All anchor installers shall be trained by the manufacturer or manufacturer's representative for each individual product being installed.
7. Submittals:
   A. Technical product literature, highlighting each anchor and size to be used on the project.
   B. Manufacturer's Printed Installation Instructions (MPII) for each anchor type.
   C. Engineering Design Data: For each substitution request, provide calculations substantiating specified design requirements, sealed by a professional engineer licensed in the jurisdiction where project is located.
8. Where a specific type of anchorage is indicated on the drawings, substitution for a different type of anchorage shall meet the requirements of ACI 355.2 Category 1 or ACI 355.4 Category 1 for anchorage into concrete or shall have an ICC-ES ESR report for anchorage into masonry. Substitution shall not be permitted without prior written approval of the Engineer of Record.
9. Anchors to hardened concrete shall be supplied as an entire system and shall be as follows:
   A. Adhesive anchors in cracked and un-cracked concrete indicated on the drawings shall be Hilti HIT-HY 200 V3 Safe Set Adhesive Anchoring System (ICC-ES Evaluation Report: ESR# 4868). The following anchor rods shall be used with the system:
      1. Reinforcing bar meeting the requirements of ASTM A615/A706 Grade 60.
      2. All-threaded rod shall be Hilti HIT-Z rods.
10. Requirements and design parameters of post-installed anchors into hardened concrete:
   A. Concrete shall have a minimum compressive strength of 2,500 psi and a minimum age of 21-days at the time of installation for adhesive anchors and 7-days for expansion anchors.
   B. Concrete temperature at the time of installation of adhesive anchors shall be a minimum of 50°F.
   C. Concrete may be water saturated or dry; water filled holes shall not be allowed.
   D. Embedment depth and anchor projection shall be as detailed on the drawings. Unless otherwise noted, minimum embedment depths, spacing, and edge distance shall be by the table below.

STRUCTURAL STEEL WELDING

1. All welding shall be in strict conformance with the latest building code and AWS D1.1.
2. All welding electrodes (filler metal) shall be E70XX (70 ksi), unless otherwise noted.
3. Lengths of welds are effective lengths. Where length of weld is not shown, it shall be full length of joint.
4. Welders shall be qualified and certified for the work they will be performing and shall have current certifications.

STATE OF OHIO
NIRANJAN S. DABHOLKAR
E-69058
REGISTERED
PROFESSIONAL ENGINEER

BARBER & HOFFMAN, INC.

NIRU DABHOLKAR

E-69058

EXP. 12/31/2025

9080 Lyra Drive, Suite 560
Columbus, OH 43240
614-825-9680
barberhoffman.com

BARBER & HOFFMAN, INC.
Consulting Engineers
Cleveland, OH
Columbus, OH
Cranberry Twp., PA

DESIGNED BY:
BARBER & HOFFMAN, INC.

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'D.	DATE

GENERAL NOTES

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.
S-001

PROJ NO.: 130012-59

DATE: 6/25/2025

1/16" = 1'-0" 0 4" 8" 16'
1/8" = 1'-0" 0 2" 4" 8'
3/16" = 1'-0" 0 2" 4" 8'
1/4" = 1'-0" 0 1" 2" 4'
3/8" = 1'-0" 0 1" 2" 4'
1/2" = 1'-0" 0 6" 1" 2'
3/4" = 1'-0" 0 3" 6" 1" 2'
1" = 1'-0" 0 3" 6" 1" 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"

Structural Steel				
Inspection Tasks After Welding:		AISC 360 Table N5.4-3	2204.1	
Welds cleaned	Observe	AISC 360 Section N5.4		
Size,length and location of welds	Perform	AISC 360 Section N5.4		
Welds meet visual acceptance criteria a. Crack prohibition b. Weld/base-metal fusion c. Crater cross section d. Weld profiles e. Weld size f. Undercut g. Porosity	Perform	AISC 360 Section N5.4		
Backing removed and weld tabs removed (if required)	Perform	AISC 360 Section N5.4		
Repair activities	Perform	AISC 360 Section N5.4		
Document acceptance or rejection of welded joint or member	Perform	AISC 360 Section N5.4		
Inspection Tasks After Bolting:		AISC 360 Table N5.6-3	2204.2	
Document acceptance or rejection of bolted connections	Perform	AISC 360 Section N5.6		
Inspection of Steel Frame: a. Verify installation of all members. b. Verify proper application of details to each joint and connection. c. Verify bracing and stiffening of framing members. d. Verify members and detail critical to frame stability.	Perform	AISC 360 Section N5.8		
Verify Material Grade of Structural Steel: a. Verify identification markings conform to AISC 360 for materials specified in the approved construction documents. b. Manufacturer's certificate of compliance required.	Observe	AISC 360 Section N5.8		
Inspection of anchor rods and other embedments supporting structural steel: a. Verify the diameter, grade, type and length of anchor rod or embedded item b. Verify the extent or depth of embedment into concrete prior to placement of concrete.	Observe	AISC 360 Section N5.8		

STRUCTURAL TESTING AND SPECIAL INSPECTIONS

Structural testing and special inspections are required. The A-E shall engage a qualified independent testing agency to conduct structural testing and special inspections. Special inspectors shall be employed or retained by the approved testing agency and have the recommended experience and certifications as summarized in Appendix C of the current International Code Counsel (ICC) Special Inspection Manual. The testing agency may employ or retain multiple special inspectors with differing areas of expertise as required for the project.

Structural observations performed by the Architect/Engineer during construction are not special inspection services and do not waive the responsibility of the inspections required of the Building Department Inspector or the testing agency. Observations by the Architect/Engineer do not guarantee the Contractor's performance and shall not be considered as supervision of construction.

At or before project completion, the qualified testing agency shall submit a written summary statement indicating that applicable structural testing and special inspections have been completed. The written summary statement shall clearly identify non-compliant test and inspection results. The written summary statement shall be sealed by the testing agencies supervising professional engineer and be submitted to the owner, building official, and design professionals. The required testing and inspections are indicated in the following table.

Description of Structural Special Inspection & Testing Requirements

Verification and Inspection	Frequency	Referenced Standard	BC Reference	Additional Notes
Cast-In-Place Concrete				
Inspect reinforcing steel including prestressing tendons: a. Verify reinforcing bar grade. b. Verify reinforcing bars are free of dirt, excessive rust, and damage. c. Verify reinforcing bars are adequately tied, chaired, and supported to prevent displacement during concrete placement. d. Verify proper clear distances between bars and to surfaces of concrete. e. Verify reinforcing bar size and placement. f. Verify bar laps for proper length and stagger. g. Verify mechanical splices placement and attachment. h. Verify epoxy or galvanized coating and coating damage is repaired.	Periodic - Prior to each pour.	ACI 318: Ch 20, 25.2, 25.3, 26.1-26.6.3	1908.4	
Inspect embedments and bolts to be installed in concrete prior to and during concrete placement.	Periodic	ACI 318: 17.8.2	N/A	
Verify use of required mix design: a. Verify mixer truck trip ticket conforms to approved mix design. b. Verify that total water added to mix on site does not exceed that allowed by the concrete mix design. c. Verify that concrete quality is indicative of adequate mixing time, consistency, and relevant time limits.	Periodic - Prior to each pour.	ACI 318: 26.4.3 ACI 301	1904.1 1904.2 1908.2 1908.3	
Inspect formwork for cleanliness, shape, location and dimensions of the concrete member being formed.	Periodic - Prior to each pour.	ACI 318: 26.11.1.2(b)	N/A	
Inspect concrete placement for proper application techniques, including proper consolidation, reinforcement remains at proper location, and conveyance and depositing avoid segregation and contamination.	Continuous	ACI 318: 26.5	1908.6 1908.7 1908.8	
Sample fresh concrete:	Obtain one composite sample of each class of concrete placed each day shall be taken not less than once a day, nor less than once for each 150 cy. of concrete nor less than once for each 5,000 sqft. of surface area for slabs or walls. If the total volume of concrete is such that frequency of testing required would provide less than five composite samples for a given class of concrete, tests shall be made from at least five randomly selected batches (per ASTM D3665) or from each batch if fewer than five batches are used.	ACI 318: 26.4 ASTM C 172	1908.10	A composite sample shall consist of the following: five 4" diameter cylinders, or four 6" diameter cylinders.
Obtain test cylinders of concrete.	One set of five 4" diameter cylinders or four 6" diameter cylinders for each composite sample.	ACI 318: 26.12 ASTM C 31	N/A	Cast additional cylinders at contractor's request and expense for field cured specimens to determine shoring removal, early strength for post-tensioning, etc.
Perform slump tests.	One test at point of discharge for each composite sample.	ASTM C 143	N/A	
Perform air content tests.	One test at point of discharge for each composite sample.	ASTM C 231, pressure method for normalweight concrete; ASTM C 173, volumetric method for lightweight concrete	N/A	
Determine the temperature of fresh concrete.	One test for each composite sample, and test hourly and when air temperature is below 40°F or when above 80°F.	ASTM C 1064	N/A	
Review and inspect cold weather concrete procedures and placement.	Periodic - Prior to each pour.	ACI 306.1 ACI 318 26.5.4		
Review and inspect hot weather concrete procedures and placement.	Periodic - Prior to each pour.	ACI 305.1 ACI 318 26.5.5		
Inspect for maintenance of specified curing temperature and techniques.	Periodic - After each pour.	ACI 318: 26.5.3-26.5.5	1908.9	
Laboratory test concrete cylinders for compressive strength.	One specimen tested at 7 days, two specimens tested at 28 days, and one specimen retained in reserve for later testing if required.	ACI 318: 26.12 ASTM C 39	N/A	Three specimens shall be tested at 28 days if using 4" diameter cylinders. Test additional cylinders at contractor's request and expense.
Inspect anchors post- installed into hardened concrete a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads. b. All other Mechanical anchors and adhesive anchors not defined in a.	Continuous Periodic	ACI 318: 17.8.2.4 ACI 318: 17.8.2	N/A	
Measure & report floor slab flatness for cambered, unshored, and inclined surfaces.	Measure the gap under a freestanding (unleveled) 10 ft. straightedge.	ACI 117: 4.8.6	N/A	

STATE OF OHIO
NIRANJAN S. DABHOLKAR E-69058
REGISTERED PROFESSIONAL ENGINEER

BARBER & HOFFMAN, INC.

NIRU DABHOLKAR

E-69058

EXP. 12/31/2025

9080 Lyra Drive, Suite 560
Columbus, OH 43240
614-825-9680
barberhoffman.com

BARBER & HOFFMAN, INC.
Consulting Engineers
Cleveland, OH
Columbus, OH
Cranberry Twp., PA

DESIGNED BY: BARBER & HOFFMAN, INC.

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'D.	DATE:

SPECIAL INSPECTIONS & TESTING

Eastern Regional Water Reclamation Facility Operations Building Renovation

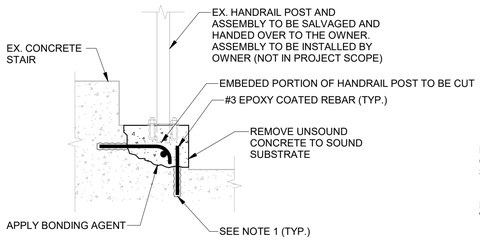
SHEET NO.

S-002

PROJ NO.: 130012-59

DATE: 6/25/2025

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"

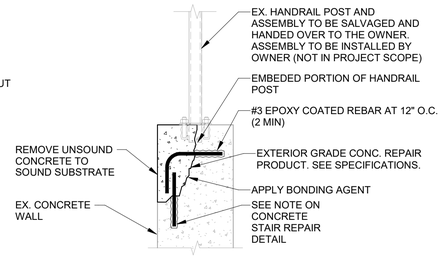


NOTES:

1. INSTALL REBAR DOWELS USING HILTI HIT-HY200 ADHESIVE. MIN. EMBED = 4".

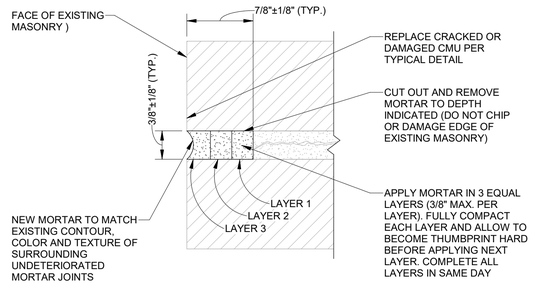
CONCRETE STAIR REPAIR

1" = 1'-0"

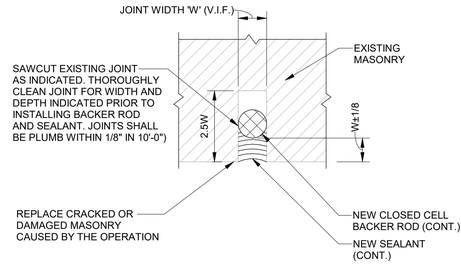


CONCRETE WALL REPAIR

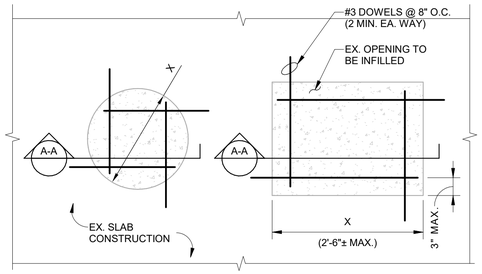
1" = 1'-0"



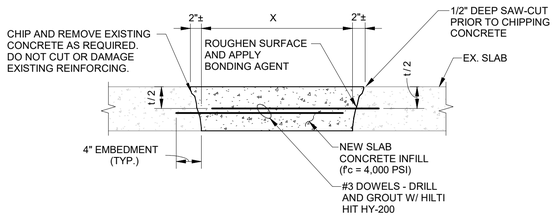
TYPICAL PLAN OR SECTION DETAIL TUCK POINTING OF MASONRY JOINTS



TYPICAL PLAN DETAIL VERTICAL SEALANT JOINT



PLAN

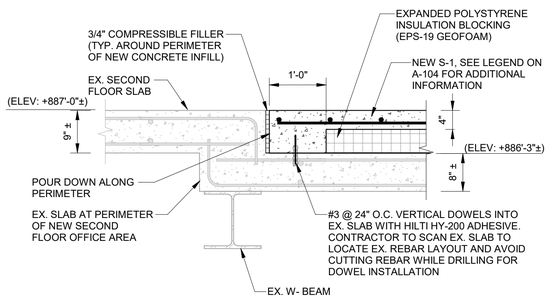


NOTES:

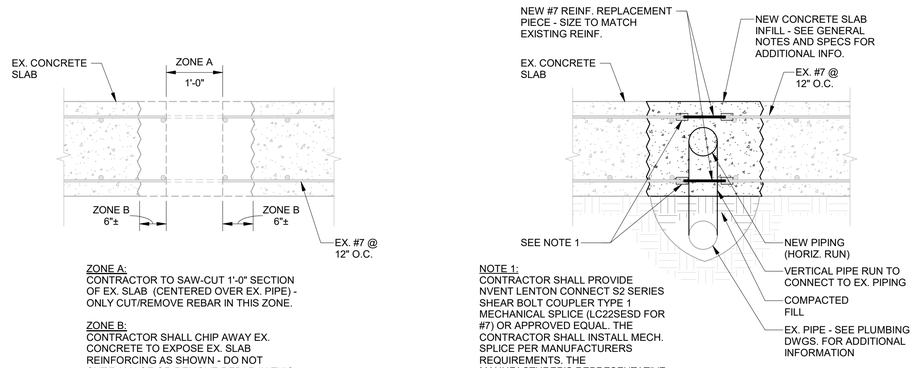
1. THIS DETAIL APPLIES TO SLAB CONSTRUCTION 2 1/2" OR THICKER WITH X DIMENSION NOT TO EXCEED 2'-0".
2. X: DENOTES OPENING DIAMETER OR LARGEST OPENING DIMENSION.
3. CONTRACTOR TO PROVIDE FORMING, SHORING, ETC. AS NEEDED TO SUPPORT THE NEW SLAB INFILL UNTIL CONCRETE ATTAINS THE SPECIFIED COMPRESSIVE STRENGTH.
4. WHERE X ≤ 1'-0" OMIT REINFORCING AND PROVIDE NON-METALLIC NON-SHRINK GROUT (f'c = 5,000 PSI) IN LIEU OF CONCRETE FILL.

SECTION A-A

TYPICAL SLAB INFILL DETAIL



TYPICAL SECOND FLOOR INFILL DETAIL



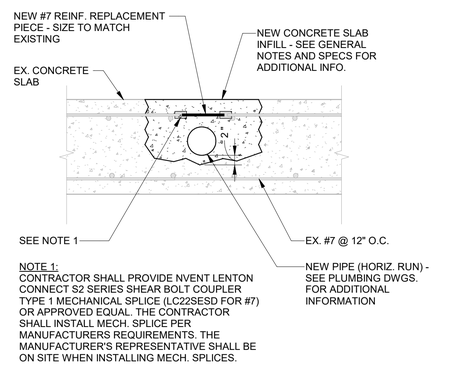
ZONE A:
CONTRACTOR TO SAW-CUT 1'-0" SECTION OF EX. SLAB (CENTERED OVER EX. PIPE) - ONLY CUT/REMOVE REBAR IN THIS ZONE.

ZONE B:
CONTRACTOR SHALL CHIP AWAY EX. CONCRETE TO EXPOSE EX. SLAB REINFORCING AS SHOWN - DO NOT CUT/DAMAGE OR REMOVE REBAR IN THIS ZONE.

DEMOLITION

NOTE 1:
CONTRACTOR SHALL PROVIDE NVENT LENTON CONNECT S2 SERIES SHEAR BOLT COUPLER TYPE 1 MECHANICAL SPLICE (LC22SESD FOR #7) OR APPROVED EQUAL. THE CONTRACTOR SHALL INSTALL MECH. SPLICE PER MANUFACTURERS REQUIREMENTS. THE MANUFACTURER'S REPRESENTATIVE SHALL BE ON SITE WHEN INSTALLING MECH. SPLICES.

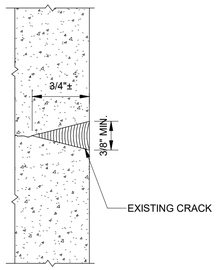
RESTORATION (UNDER SLAB)



NOTE 1:
CONTRACTOR SHALL PROVIDE NVENT LENTON CONNECT S2 SERIES SHEAR BOLT COUPLER TYPE 1 MECHANICAL SPLICE (LC22SESD FOR #7) OR APPROVED EQUAL. THE CONTRACTOR SHALL INSTALL MECH. SPLICE PER MANUFACTURERS REQUIREMENTS. THE MANUFACTURER'S REPRESENTATIVE SHALL BE ON SITE WHEN INSTALLING MECH. SPLICES.

RESTORATION (WITHIN SLAB)

PLUMBING TRENCH DETAIL



NOTES:

1. PROVIDE V-SHAPED SAW CUT ALONG THE CENTER OF CRACK. (DO NOT CUT EXISTING REINFORCEMENT).
2. INSTALL HIGH STRENGTH, LOW VISCOSITY STRUCTURAL EPOXY.
3. SEE SPECIFICATIONS FOR APPROVED MATERIALS.
4. SEE PRODUCT MANUFACTURER'S TECHNICAL DATA SHEETS FOR SURFACE PREPARATION, APPLICATION PROCEDURES, AND JOINT SIZE LIMITATIONS.
5. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

CRACK REPAIR DETAIL

STATE OF OHIO
NIRANJAN S. DABHOLKAR E-69058
REGISTERED PROFESSIONAL ENGINEER
BARBER & HOFFMAN, INC.
NIRU DABHOLKAR
E-69058
EXP. 12/31/2025
9800 Lyra Drive, Suite 560 Columbus, OH 43240 614-825-9580 barberhoffman.com
BARBER & HOFFMAN, INC. Consulting Engineers
Cleveland, OH Columbus, OH Cranberry Twp., PA

DESIGNED BY: BARBER & HOFFMAN, INC.

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'D.	DATE

TYPICAL REPAIR DETAILS

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.

S-003

PROJ NO.: 130012-59

DATE: 6/25/2025

1/16" = 1'-0" | 1/8" = 1'-0" | 3/16" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"

PARTIAL FOUNDATION PLAN

1/8" = 1'-0"

NOTES:

1. TOP OF FOUNDATION SLAB ELEVATION = 873'-0"± = REFERENCE ELEVATION (0'-0").
2. ELEVATIONS GIVEN ARE TO TOP OF SLAB AND ARE AT (0'-0") UNLESS OTHERWISE NOTED.
3. TOP OF PILE ELEVATIONS:
   - 868'-8"±
   - 867'-8"±
   - 871'-5 1/2"±
   - 865'-8"±
   - 869'-11 1/2"±
4. MINIMIZE WIDTH OF TRENCH DURING INSTALLATION OF NEW PIPING AND REBAR COUPLERS. SEE PLUMBING TRENCH DETAIL ON S-003 FOR ADDITIONAL INFORMATION.
5. CUTTING INTO EX. PILE CAPS OR ISOLATED PILE FOUNDATIONS IS NOT ACCEPTABLE. ALL VERTICAL DROPS FOR NEW PLUMBING PIPES, FOR CONNECTION TO EX. PIPING UNDER FOUNDATION MAT, SHALL BE LOCATED AWAY FROM EX. PILE CAPS AND EX. ISOLATED PILE FOUNDATIONS. MAINTAIN 3'-0" MIN. CLEARANCE AT VERTICAL PIPE DROP/ROUTING LOCATIONS. WITH EX. PILES/PILE CAPS. AT LOCATIONS OF POTENTIAL CONFLICTS, CONSULT W/ ARCH. AND EOR FIRST PRIOR TO CUTTING/CORING THROUGH MAT FOUNDATION AT SUCH LOCATIONS. USE GPR TO LOCATE PILE CAPS AND ISOLATED PILES IN THE VICINITY OF VERTICAL CUTS IN FOUNDATION MAT.

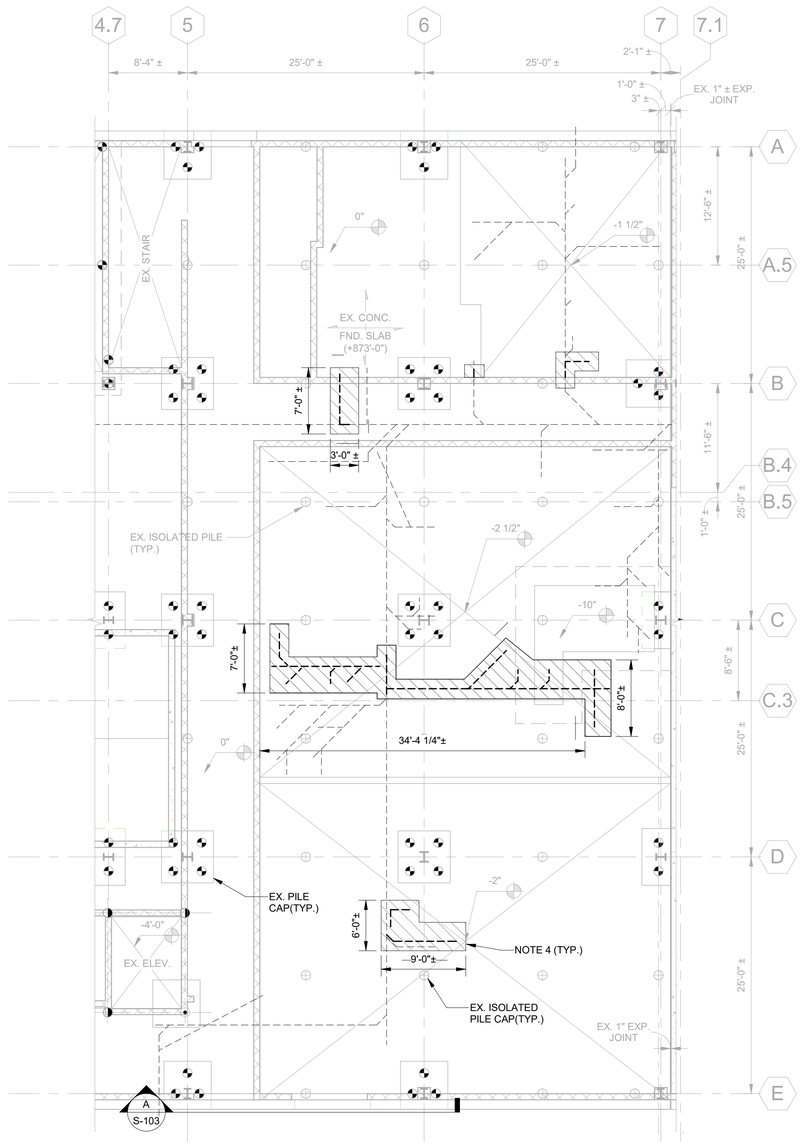
LEGEND:

EX. CONC. FND SLAB — EX. 20"± THICK REINFORCED CONCRETE MAT FOUNDATION WITH #7@12" REINFORCING EACH WAY TOP AND BOTTOM.

EX. PIPING. SEE MEP DRAWINGS FOR INFORMATION.

NEW PIPING. SEE MEP DRAWINGS FOR INFORMATION.

2'-0"± TRENCH FOR NEW MEP PIPING. SEE NOTE 4.



CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS IN THE FIELD

STATE OF OHIO — NIRANJAN S. DABHOLKAR E-69058 — REGISTERED PROFESSIONAL ENGINEER

BARBER & HOFFMAN, INC.

NIRU DABHOLKAR

E-69058

EXP. 12/31/2025

9800 Lore Drive, Suite 560
Columbus, OH 43240
614-825-9680
barberhoffman.com

BARBER & HOFFMAN, INC. *Consulting Engineers*
Cleveland, OH
Columbus, OH
Cranberry Twp., PA

DESIGNED BY: BARBER & HOFFMAN, INC.

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'D.	DATE

PARTIAL FOUNDATION PLAN

Eastern Regional Water Reclamation Facility Operations Building Renovation

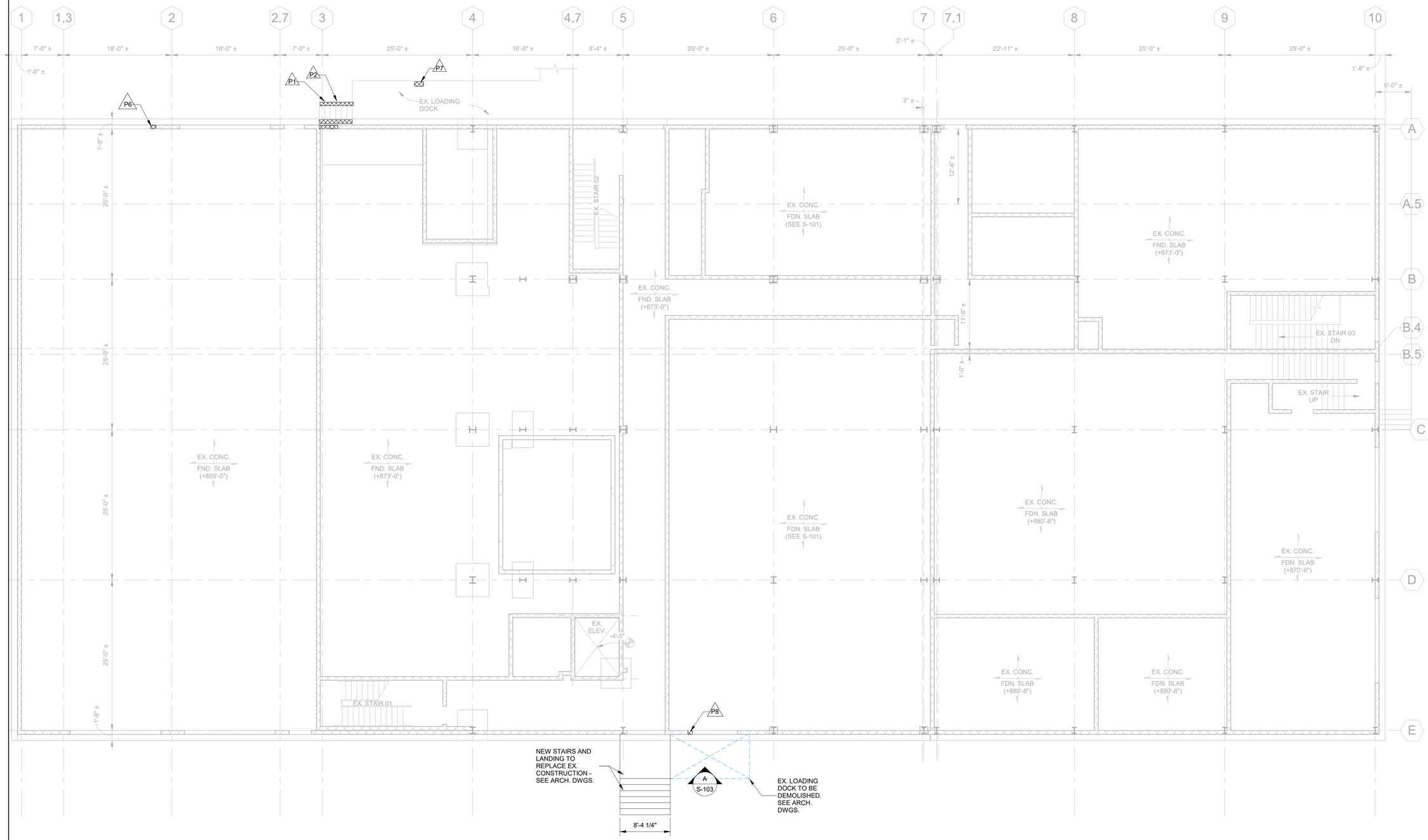
SHEET NO.

S-101

PROJ NO.: 130012-59

DATE: 6/25/2025

1/16" = 1'-0" | 1/8" = 1'-0" | 3/16" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"



STRUCTURAL RESTORATION PLAN

1/8" = 1'-0"

N

NOTES:
1. ELEVATIONS GIVEN ARE TO TOP OF SLAB AND ARE AT (0'-0") UNLESS OTHERWISE NOTED.

LEGEND:

DENOTES AREA FOR RECOMMENDED STRUCTURAL REPAIR.

P#

DENOTES PHOTO # ON S-501. SEE CODED NOTES ON S-501 FOR REPAIR RECOMMENDATION.

CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS IN THE FIELD

STATE OF OHIO
NIRANJAN S. DABHOLKAR E-69058
REGISTERED PROFESSIONAL ENGINEER

BARBER & HOFFMAN, INC.
NIRU DABHOLKAR
E-69058
EXP. 12/31/2025

9800 Lyra Drive, Suite 560
Columbus, OH 43240
614-825-9580
barberhoffman.com

BARBER & HOFFMAN, INC.
Consulting Engineers
Cleveland, OH
Columbus, OH
Cranberry Twp., PA

DESIGNED BY: BARBER & HOFFMAN, INC.

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'D.	DATE

STRUCTURAL RESTORATION PLAN

Eastern Regional Water Reclamation Facility Operations Building Renovation

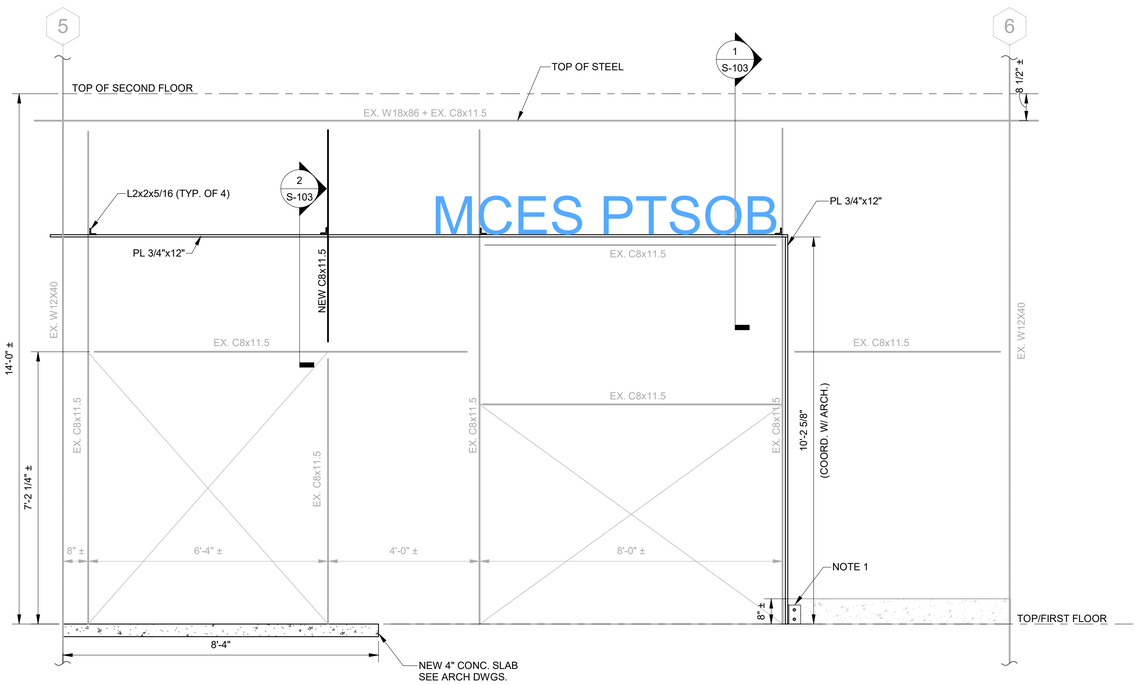
SHEET NO.

S-102

PROJ NO.: 130012-59

DATE: 6/25/2025

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



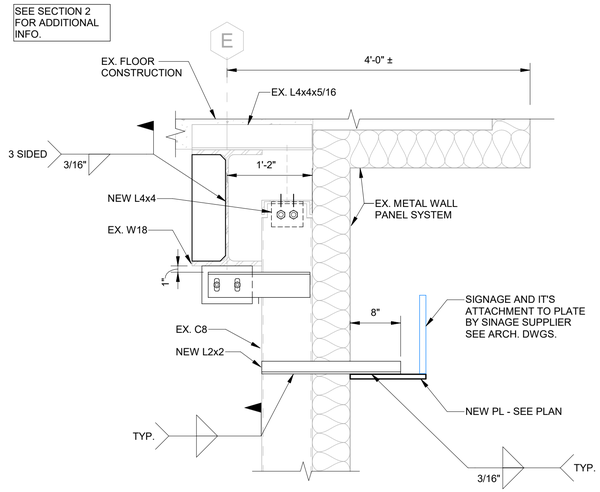
MCES PTSOB

A - SIGNAGE SUPPORT FRAMING LAYOUT

1/2" = 1'-0"

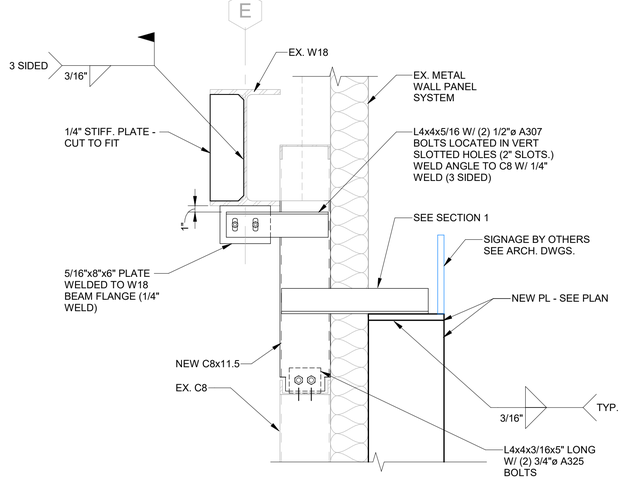
NOTES:

1. PROVIDE L4x4x5/16 x 6" LONG. ANCHOR TO EX. CONCRETE CURB USING (2) 1/2"ø THREADED RODS W/ HILTI HY-270 ADHESIVE. WELD ANGLE TO PLATE W/ 1/4" WELDS (3 SIDES). SPACING = 3", EDGE DISTANCE = 1". BOTTOM OF ANGLE TO ALIGN WITH TOP/FIRST FLOOR.



SECTION 1

1" = 1'-0"



SECTION 2

1" = 1'-0"

STATE OF OHIO
NIRANJAN S. DABHOLKAR E-69058
REGISTERED PROFESSIONAL ENGINEER
BARBER & HOFFMAN, INC.
NIRU DABHOLKAR
E-69058
EXP. 12/31/2025
9800 Lyra Drive, Suite 560
Columbus, OH 43240
614-825-9680
barberhoffman.com
BARBER & HOFFMAN, INC.
Consulting Engineers
Cleveland, OH
Columbus, OH
Cranberry Twp., PA

DESIGNED BY: BARBER & HOFFMAN, INC.

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'D.	DATE

SIGNAGE SUPPORT FRAMING PLAN

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.

S-103

PROJ NO.: 130012-59

DATE: 6/25/2025

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



P1 PHOTO 1

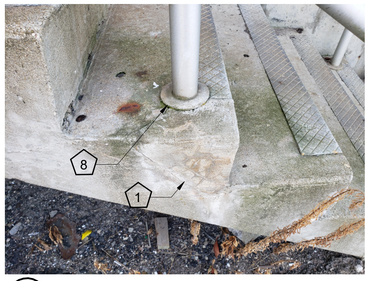


P4 PHOTO 4
(STAIR 02 MID-LANDING - SEE ARCH. DWG. A-103 FOR LOCATION)

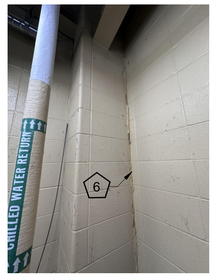


P7 PHOTO 7

LEGEND:
(#) SEE NOTE FOR REPAIR RECOMMENDATION.



P2 PHOTO 2



P5 PHOTO 5
(SEE A-103 FOR PHOTO LOCATION IN PLAN)



P8 PHOTO 8



P3 PHOTO 3
(SEE A-103 FOR PHOTO LOCATION IN PLAN)



P6 PHOTO 6

NOTES:

1. REPAIR DETERIORATED/UNSOUND CONCRETE BACK TO SOUND SUBSTRATE. ANY STEEL REINFORCEMENT SHALL BE FULLY EXPOSED WITH CONCRETE REMOVED 3/4" CLEAR AROUND ALL RUSTED REINFORCEMENT. RUSTED REINFORCEMENT SHALL BE WIRE BRUSH CLEANED AND PROTECTED WITH AN ANTI-CORROSION COAT. A BONDING AGENT OR SCRATCH COAT SHALL BE APPLIED TO THE SOUND SUBSTRATE AND THE SPALLED AREA SHALL BE PATCHED WITH PRE APPROVED EXTERIOR GRADE CONCRETE REPAIR MORTER. FOR DETERIORATED AREAS AT GUARDRAIL ATTACHMENT TO CONCRETE SEE TYPICAL CONCRETE STAIR AND CONCRETE WALL REPAIR DETAIL ON S-003 FOR ADDITIONAL INFORMATION.
2. CRACKED CONCRETE SHALL BE CLEANED, ROUTED, AND INJECTED WITH HIGH STRENGTH STRUCTURAL EPOXY. SEE CRACK REPAIR DETAIL ON S-003 FOR ADDITIONAL INFORMATION.
3. EXPOSED SURFACES OF CONCRETE SHALL BE CLEANED AND SEALED WITH A PENETRATING, CHEMICALLY REACTIVE, 100% SOLIDS, SOLVENT BASED SILANE SEALER THAT REPELS MOISTURE FROM CONCRETE.
4. DETERIORATED MORTAR JOINTS EXPERIENCING STEPPED/VERTICAL CRACKING SHALL BE TUCKPOINTED. CRACKS APPEAR TO BE DORMANT - NO ADDITIONAL REPAIR MEASURES ARE WARRANTED.
5. CAREFULLY CUT PORTION OF THE FACE SHELL ALONG INTERFACE OF SLOPED BEAM TO INTRODUCE A SOFT JOINT (1 1/2") TO ALLOW FOR BEAM TO DEFLECT FREELY RELATIVE TO ADJOING CMU WALL.
6. DETERIORATED SEALANT JOINTS TO BE REPAIRED BY REMOVING THE EXISTING JOINT MATERIALS, CLEANING THE JOINT, AND INSTALLING NEW ELASTOMERIC SEALANT WITH BACKER ROD ALONG THE HEIGHT OF THE WALL. SEE TYPICAL PLAN DETAIL VERTICAL SEALANT JOINT ON S-003 FOR ADDITIONAL INFORMATION.
7. CORRODED METAL AT DOOR JAMBS SHALL BE WIRE BRUSH CLEANED AND REPAINTED WITH EXTERIOR GRADE, CORROSION RESISTANT PAINT. TYPICAL AT ALL EXTERIOR OVERHEAD DOOR JAMBS.
8. REMOVAL OF GUARDRAIL POST BASE AND REPLACEMENT IS RECOMMENDED. SEE SEE TYPICAL CONCRETE STAIR AND CONCRETE WALL REPAIR DETAIL ON S-003 FOR RECOMMENDED SURFACE MOUNTED ATTACHMENT. PER DIRECTION FROM OWNER, RE-INSTALLATION OF GUARDRAIL POST WITH SURFACE MOUNTED BASE PLATE IS NOT PART OF CURRENT PROJECT SCOPE. THIS WORK WILL BE PERFORMED SEPARATELY BY THE OWNER.
9. CONCRETE CRACKS TO BE CLEANED AND FILLED WITH LOW VISCOSITY, 100% SOLIDS, MOISTURE TOLERANT, HIGH STRENGTH EPOXY ADHESIVE VIA GRAVITY FEED.

STATE OF OHIO
NIRANJAN S. DABHOLKAR E-69058
REGISTERED PROFESSIONAL ENGINEER
BARBER & HOFFMAN, INC.
NIRU DABHOLKAR
E-69058
EXP. 12/31/2025

9800 Lyra Drive, Suite 560
Columbus, OH 43240
614-825-9580
barberhoffman.com

BARBER & HOFFMAN, INC.
Consulting Engineers
Cleveland, OH
Columbus, OH
Cranberry Twp., PA

DESIGNED BY: BARBER & HOFFMAN, INC.
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'VD.	DATE:

REPRESENTATIVE PHOTOS

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.
S-501

PROJ NO.: 130012-59
DATE: 6/25/2025

1/16" = 1'-0" 0 4" 8" 16'

1/8" = 1'-0" 0 2' 4' 8'

3/16" = 1'-0" 0 2' 4' 8'

1/4" = 1'-0" 0 1' 2' 4'

3/8" = 1'-0" 0 1' 2' 4'

1/2" = 1'-0" 0 6" 1' 2'

3/4" = 1'-0" 0 3" 6" 1' 2'

1" = 1'-0" 0 3" 6" 1' 2'

1 1/2" = 1'-0" 0 3" 6" 1'

3" = 1'-0" 0 1" 2" 3" 6" 1'

6" = 1'-0" 0 1" 2" 3" 6"

PLUMBING ABBREVIATIONS:

ADA	AMERICANS WITH DISABILITIES ACT	HVAC	HEATING VENTILATING AND AIR CONDITIONING
AFF	ABOVE FINISH FLOOR	ID	INSIDE DIAMETER
APPROX	APPROXIMATE	IND	INDIRECT WASTE
AR	ARGON	INV	INVERT ELEVATION
ASSE	AMERICAN SOCIETY OF SANITARY ENGINEERS	IPS	IRON PIPE SIZE
AW	ACID WASTE	LAV	LAVATORY
BFP	BACKFLOW PREVENTER	MFR	MANUFACTURER
CA	COMPRESSED AIR	MPT	MALE PIPE THREAD
CI	CAST IRON	MV	MIXING VALVE
CLN	CLINIC	N/N2	NITROGEN
CO	CLEANOUT	N/A	NOT APPLICABLE
COM	COMBINATION WASTE & VENT	NG	NATURAL GAS
CTE	CONNECT TO EXISTING	NH	NO HUB
DCW	DOMESTIC COLD WATER	NPT	NATIONAL PIPE THREAD
DEMO	DEMOLISH OR DEMOLITION	NTS	NOT TO SCALE
DHW	DOMESTIC HOT WATER	OD	OUTSIDE DIAMETER
DHWR	DOMESTIC HOT WATER RETURN	OPC	OHIO PLUMBING CODE
DI	DEIONIZED WATER	PC	PLUMBING CONTRACTOR
DWV	DRAIN WASTE AND VENT	PDI	PLUMBING AND DRAIN INSTITUTE
EA	EACH	PRV	PRESSURE REDUCING VALVE
EC	ELECTRICAL CONTRACTOR	PSI	POUNDS PER SQUARE INCH
EQUIP	EQUIPMENT	PVC	POLYVINYL CHLORIDE
EL	ELEVATION	QTY	QUANTITY
EWC	ELECTRIC WATER COOLER	SAN	SANITARY
EX	EXISTING	SCH	SCHEDULE
FD	FLOOR DRAIN	SK	SINK
FF	FINISH FLOOR	SS	STAINLESS STEEL/SERVICE SINK
FPT	FEMALE PIPE THREAD	ST	STORM
FS	FLOOR SINK	TMV	THERMOSTATIC MIXING VALVE
FT	FEET OR FOOT	TYP	TYPICAL
GA	GAUGE	UR	URINAL
GAL	GALLON	V	VENT
GC	GENERAL CONTRACTOR	VTR	VENT THROUGH ROOF
GPM	GALLONS PER MINUTE	WC	WATER CLOSET
HC	HVAC CONTRACTOR		

PLUMBING LINETYPES

DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RETURN
SANU	UNDERGROUND SANITARY
SAN	SANITARY
V	SANITARY VENT
NG	NATURAL GAS
CA	COMPRESSED AIR
LV	LABORATORY VACUUM
DI	DEIONIZED WATER
DIR	DEIONIZED WATER RETURN

PLUMBING SYMBOLS

- LIMIT OF DEMOLITION
- CONNECT TO EXISTING
- THERMOSTATIC MIXING VALVE
- VALVE (PER SPECIFICATIONS)
- COMBINATION BALANCING SHUT-OFF VALVE
- SWING CHECK VALVE
- NON-SLAM CHECK VALVE(SPRING LOADED)
- PRESSURE-TEMPERATURE RELIEF VALVE
- FLOOR DRAIN
- ROOF DRAIN
- FLOOR CLEANOUT
- WATER HAMMER ARRESTOR (LETTER IS PDI SIZE)
- HOSE BIBB
- THERMOMETER-STEM TYPE
- PIPE CAP
- ACCESS PANEL
- UNION
- BALL VALVE
- GAS VALVE
- GAS PRESSURE REGULATOR
- PRESSURE SWITCH
- PRESSURE GAUGE
- TRAP PRIMER
- PIPE DOWN
- PIPE UP
- TEE DOWN
- TEE UP
- TEE BRANCH
- 90 ELBOW
- TEE BRANCH OFF BOTTOM
- TEE BRANCH OFF TOP
- GAS SOLENOID VALVE
- PIPE ANCHOR
- PIPE GUIDE
- VACUUM RELIEF DEVICE
- CONTINUES
- SENSOR WELL
- WALL CLEANOUT
- SHOWER DRAIN
- SANI-FLOOR DRAIN

PLUMBING SPECIFICATIONS AND REQUIREMENTS (PERTAINS TO ALL PLUMBING DRAWINGS):

A. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, DEVICES, ETC. FOR THE COMPLETE AND OPERATIONAL PLUMBING SYSTEMS DESCRIBED AND SHOWN IN THESE DRAWINGS.

B. THE PIPING SYSTEMS SHOWN ARE DIAGRAMMATIC, ARE REPRESENTATIVE OF APPROXIMATE LOCATIONS AND QUANTITIES, AND DEMONSTRATE THE INTENT OF THE SCOPE OF WORK.

C. CONTRACTOR SHALL COORDINATE ALL PIPING INSTALLATIONS WITH ALL CONTRACTORS, THE ARCHITECT, AND THE OWNER, AND SHALL VERIFY ALL CLEARANCES BEFORE THE INSTALLATION OF PIPING, CORE DRILLING, ETC.

D. PROVIDE ANY AND ALL NECESSARY OFFSETS, FITTINGS, ADAPTORS, TRANSITIONS, PIPING, HANGERS ETC. TO COMPLETE THE SCOPE OF WORK WITH A HIGH LEVEL OF QUALITY AND WORKMANSHIP, AND PER APPLICABLE CODES.

E. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF WALLS, CHASES, ELEVATIONS, LAYOUTS, ETC., FOR COORDINATION AND PLACEMENT OF PIPING SYSTEMS, FIXTURES, EQUIPMENT, ETC. DO NOT SCALE DRAWINGS, USE EXACT DIMENSIONING FOR ACCURATE LOCATIONS AND PLACEMENTS. CONFIRM WITH ARCHITECT.

F. AT PROJECT COMPLETION, THE CONTRACTOR SHALL PROVIDE TO THE ARCHITECT A CLEAN SET OF "AS-BUILT" CONTRACT DRAWING PRINTS SHOWING ALL DEVIATIONS FROM THE CONTRACT DRAWINGS MARKED IN RED PENCIL. AS-BUILT DRAWINGS SHALL SHOW ALL UNDERGROUND AND CONCEALED PIPING BY DIMENSIONING FROM BUILDING WALLS AND ELEVATIONS FROM FINISH FLOOR OR GRADE. KEEP PRINTS CURRENT WITH EVERYDAY JOB PROGRESS.

G. PIPING SHALL NOT BE INSTALLED ABOVE ANY ELECTRICAL SWITCHGEAR, OR WITHIN THREE (3) FEET IN FRONT OF SUCH EQUIPMENT. FOLLOW ALL PERTINENT CODE REQUIREMENTS FOR PIPING INSTALLATIONS.

H. ALL PLUMBING WORK AND MATERIALS SHALL BE INSTALLED PER STATE, LOCAL, AND NATIONAL CODES. CONTRACTOR SHALL BEAR TOTAL RESPONSIBILITY OF INSTALLING HIS WORK PER THESE CODES AND REGULATIONS PER THE AUTHORITY HAVING JURISDICTION (AHJ).

I. ALL SANITARY WASTE AND VENT PIPING SHALL BE MANUFACTURED FROM VIRGIN RIGID PVC (POLYVINYL CHLORIDE) VINYL COMPOUNDS WITH A CELL CLASS OF 12454 AS IDENTIFIED IN ASTM D 1784. PVC SCHEDULE 40 PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM D 1785 AND ASTM D FITTINGS SHALL BE MANUFACTURED FROM VIRGIN RIGID PVC (POLYVINYL CHLORIDE) VINYL COMPOUNDS WITH A CELL CLASS OF 12454 AS IDENTIFIED IN ASTM D 1784. PVC DWV FITTINGS SHALL CONFORM TO ASTM D JOINTS: SOLVENT WELDED, WITH ASTM D 2564 SOLVENT CEMENT. PER MANUFACTURER'S REQUIREMENTS. NO-HUB CAST IRON (NHCI) PIPING WITH HEAVY DUTY COUPLINGS MAY BE USED AS NECESSARY.

J. ALL INTERIOR SANITARY DRAINS 2-1/2" AND SMALLER SHALL BE SLOPED AT 1/4" PER FOOT MINIMUM. ALL SANITARY AND STORM DRAINS 3" AND LARGER SHALL SLOPE AT 1/8" PER FOOT MINIMUM.

K. ALL MATERIALS COMING IN CONTACT WITH POTABLE WATER SHALL COMPLY WITH NSF 61, ANSI 372 (LEAD-FREE), AND BE APPROVED FOR POTABLE WATER USE.

L. ALL ABOVE-GROUND WATER PIPING SHALL BE SEAMLESS TYPE 'L' RIGID COPPER TUBING CONFORMING TO ASTM B88-93A AND THE COPPER DEVELOPMENT ASSOCIATION. ALL FITTINGS SHALL BE WROUGHT COPPER OR CAST SOLDER TYPE PRESSURE FITTINGS. SOLDER SHALL BE LEAD FREE MEETING ASTM B-32. VALVES SHALL BE SOLDER END 3-PIECE BALL VALVES, AND WILL MATCH SAME CRITERIA AS PIPING AND FITTINGS. ALTERNATE FITTINGS: CRIMP-PRESS TYPE FITTINGS MEETING ASME B16018 OR ASME B16.22, AND APPROVED FOR USE IN POTABLE WATER SYSTEMS. ALL CRIMP-PRESS FITTINGS SHALL BE THE SAME BRAND - FROM ONE MANUFACTURER. USE TYPE 'K' COPPER TUBING FOR TRAP PRIMER PIPING.

M. THE DOMESTIC WATER PIPING SHALL BE SANITIZED, FLUSHED, AND TESTED BY A THIRD PARTY AGENCY PROFICIENT WITH THIS TYPE OF ACTIVITY. THE AGENCY SHALL PROVIDE TEST REPORTS TO THE ARCHITECT DEMONSTRATING THE PIPING SYSTEM TO BE SUITABLE FOR HUMAN USE AND CONSUMPTION.

N. ALL ABOVE-GROUND DOMESTIC WATER PIPING, EXISTING AND NEW, SHALL BE INSULATED IN COMPLIANCE WITH ASHRAE 90.1. ALL PIPING INSULATION SHALL BE PRE-MOLDED FIBERGLASS INSULATION WITH MINIMUM OF 1" THICKNESS AND VAPOR-BARRIER ALL-SERVICE-JACKET (ASJ); K-VALUE = ASTM C177, 0.24 AT 75°F. EXPOSED PIPING IN WET AREAS AND BELOW 7'-0" AFF SHALL HAVE WATERPROOF PVC JACKETING. PROVIDE PRE-MANUFACTURED INSULATION HANGER ASSEMBLIES WITH SHIELDS AT ALL HANGER AND SUPPORT LOCATIONS.

O. ALL PIPING SHALL BE IDENTIFIED PER OWNER'S REQUIREMENTS (OR ANSI #A13.1-2020 AS A MINIMUM). PROVIDE VALVE TAGS ON ALL VALVES AND A VALVE TAG SCHEDULE PER ARCHITECT'S INSTRUCTIONS.

P. REFER TO PLUMBING AND ARCHITECTURAL PLAN DRAWINGS FOR EXACT LOCATIONS OF PLUMBING SYSTEM CONNECTIONS REQUIRED FOR FIXTURES, EQUIPMENT, ETC.

Q. THE CONTRACTOR SHALL PROVIDE ALL PLUMBING ROUGH-IN PIPING AND FINAL CONNECTIONS PER THE PROJECT DRAWINGS AND CONTRACT DOCUMENTS.

R. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND RATINGS OF FIRE AND SMOKE RATED PARTITIONS AND FLOORS. FURNISH AND INSTALL UL-APPROVED FIRESTOPPING ASSEMBLIES AT ALL PENETRATIONS OF THESE RATED ASSEMBLIES ACCORDING TO THE OBC, ASTM E814, AND OWNER REQUIREMENTS. MAINTAIN UL-RATED ASSEMBLY DOCUMENTS ON SITE.

S. COORDINATE ALL SHUTDOWNS AND OUTAGES WITH THE OWNER.

T. ALL NATURAL GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL PIPE, ASTM A53, TYPE 'F', GRADE 'A' OR 'B'; FITTINGS SHALL HAVE WELDED CONNECTIONS AND COMPLY WITH IFGC 402.6 FOR SYSTEMS INSIDE OF A BUILDING EXCEEDING 5PSI. WELDING SHALL COMPLY WITH OMC SECTION 313, AND HAVE A CURRENT STATE OF OHIO CERTIFICATE. 2" AND SMALLER PIPING AT LOWER PRESSURES MAY USE HEAVY DUTY CAST FITTINGS.

U. THE ACID WASTE DWV SYSTEM SHALL BE COMPRISED OF ACID-RESISTANT MATERIALS AND JOINING METHODS. INSTALL PER THE MANUFACTURER'S WRITTEN INSTRUCTIONS.

V. LOOSE ITEMS FURNISHED BY OTHER DIVISIONS, SUCH AS THE ACCESSORIES FOR THE LABORATORY EQUIPMENT AND FIXTURES, SHALL BE INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS FOR A FULLY OPERATIONAL SYSTEM. COORDINATE WITH LAB EQUIPMENT.

STATE OF OHIO
DREW A ROBINSON
PE-89438
REGISTERED PROFESSIONAL ENGINEER

#916 Brodenton Ave. STE 240
Dublin, OH 43017
t 614.267.5577
f 614.267.5617
www.tecinceng.com
engineering | surveying
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'VD.	DATE

PLUMBING GENERAL NOTES, SYMBOLS, & ABBREVIATIONS

Eastern Regional Water Reclamation Facility Operations Building Renovation

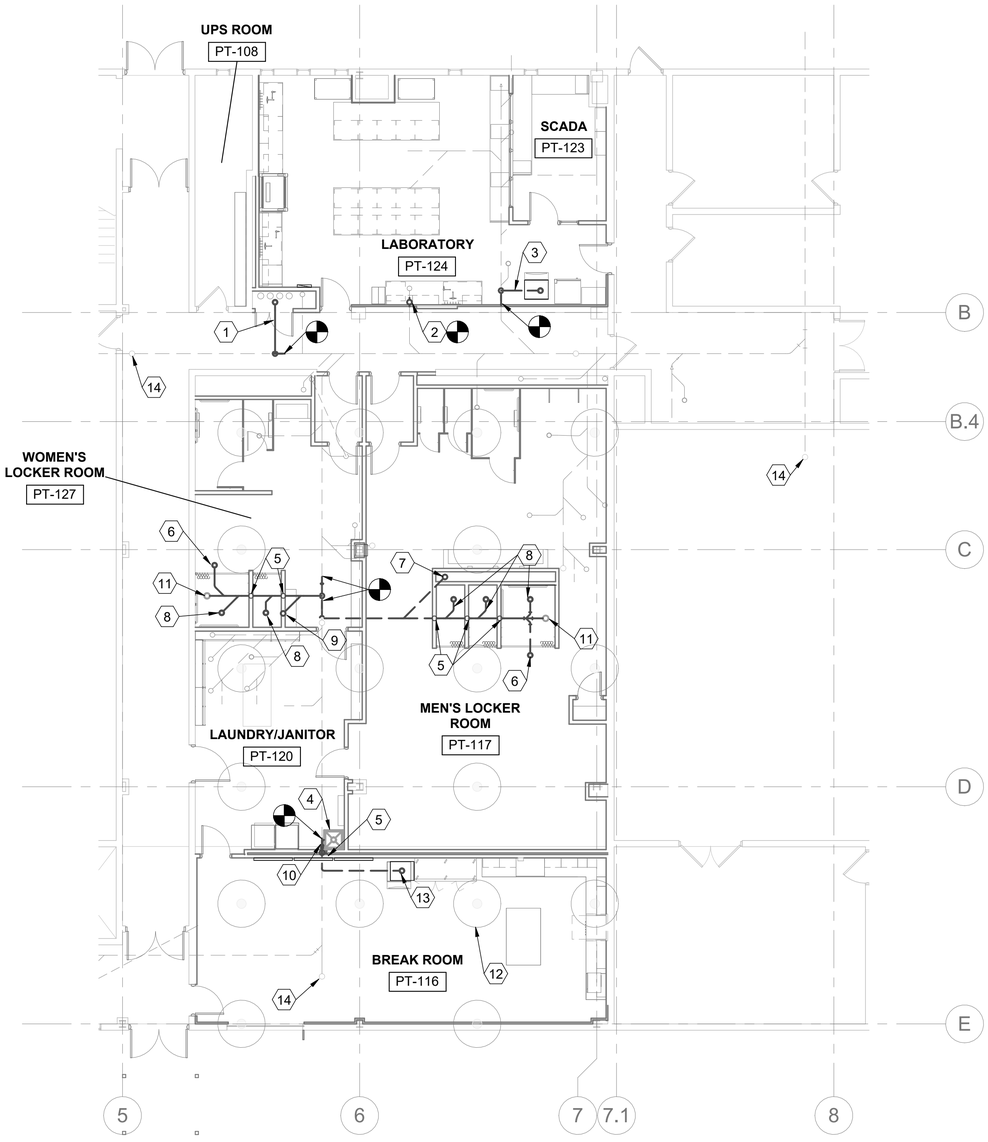
SHEET NO.

P-001

PROJ NO.: 130012-59

DATE: 06/25/2025

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



1 PLUMBING UNDERGROUND DWV NEW WORK PLAN

1/8" = 1'-0"

NEW WORK PLAN NOTES:

A. EXISTING CONCRETE SLAB IS 20 INCHES THICK WITH REBAR LOCATED AT 3 INCHES BFF AND 17 INCHES BELOW FINISHED FLOOR.

B. INSTALL ALL NEW UNDERGROUND DRAIN PIPING BETWEEN 5 INCHES AND 15 INCHES BELOW FINISHED FLOOR UNTIL FINAL CONNECTION TO EXISTING UNDERGROUND SANITARY DRAIN PIPING.

C. UNDER NO CIRCUMSTANCES SHALL NEW UNDERGROUND SANITARY PIPING BE INSTALLED WITHIN A 2 FOOT RADIUS OF EXISTING STRUCTURAL PILES BELOW SLAB.

NEW WORK PLAN NOTES:

1. PROVIDE NEW 3 INCH UNDERGROUND SANITARY DRAIN PIPING SERVING NEW FLOOR DRAIN AND CONNECT TO EXISTING 6 INCH UNDERGROUND SANITARY MAIN IN CORRIDOR AREA.
2. PROVIDE NEW 2 INCH SANITARY DRAIN DOWN THROUGH SLAB AND CONNECT TO EXISTING 3 INCH UNDERGROUND SANITARY DRAIN PIPING. SEE SHEET P-201 FOR PIPING CONTINUATION ABOVE SLAB.
3. PROVIDE NEW 3 INCH UNDERGROUND SANITARY DRAIN PIPING SERVING NEW FLOOR DRAIN AND CONNECT TO EXISTING 3 INCH UNDERGROUND SANITARY PIPING IN LAB AREA.
4. PROVIDE NEW 3 INCH UNDERGROUND SANITARY DRAIN PIPING SERVING MOP SINK AND CONNECT TO EXISTING 4 INCH UNDERGROUND SANITARY DRAIN PIPING.
5. PROVIDE NEW 2 INCH SANITARY VENT PIPING UP IN WALL SPACE TO FIRST FLOOR CEILING SPACE. SEE SHEET P-201 FOR PIPING CONTINUATION ABOVE SLAB.
6. PROVIDE NEW 3 INCH UNDERGROUND SANITARY DRAIN PIPING SERVING NEW FLOOR DRAIN.
7. PROVIDE NEW 4 INCH UNDERGROUND SANITARY DRAIN PIPING SERVING LAVATORIES AND SECOND FLOOR RESTROOM DOWN INTO SLAB. SEE SHEET P-201 FOR SANITARY DRAIN PIPING CONTINUATION ABOVE SLAB.
8. PROVIDE NEW 3 INCH UNDERGROUND SANITARY DRAIN PIPING SERVING SHOWER DRAIN AND CONNECT TO EXISTING 4 INCH UNDERGROUND SANITARY DRAIN PIPING.
9. PROVIDE NEW 1-1/2 INCH SANITARY DRAIN PIPING DOWN INTO SLAB AND ROUTE UNDERGROUND AS SHOWN. SEE SHEET P-201 FOR PIPING CONTINUATION ABOVE SLAB.
10. PROVIDE NEW 2 INCH UNDERGROUND SANITARY DRAIN PIPING SERVING BREAK ROOM SINK AND CONNECT TO EXISTING 4 INCH UNDERGROUND SANITARY DRAIN PIPING. SEE SHEET P-201 FOR PIPING CONTINUATION ABOVE SLAB.
11. PROVIDE NEW 3 INCH UNDERGROUND SANITARY DRAIN PIPING SERVING FLOOR CLEANOUT.
12. INDICATES APPROXIMATE LOCATION OF EXISTING STRUCTURAL PILE AND 2 FOOT RADIUS CLEARANCE (TYP).
13. PROVIDE NEW 3 INCH UNDERGROUND SANITARY DRAIN PIPING SERVING FLOOR DRAIN AND CONNECT TO EXISTING 4 INCH UNDERGROUND SANITARY DRAIN PIPING.
14. AFTER ALL UNDERGROUND TIE-INS ARE COMPLETE, CONTRACTOR SHALL CLEAN THE MAIN UNDERGROUND SANITARY DRAIN PIPING FROM THIS CLEANOUT LOCATION TO THE EXTERIOR. PROVIDE VIDEO SURVEILLANCE RECORDING AFTER THE COMPLETION OF CLEANING.

STATE OF OHIO
DREW A ROBINSON
PE-89438
REGISTERED PROFESSIONAL ENGINEER

tec inc.
engineering & surveying
4976 Bradenton Ave., STE 240
Dublin, OH 43017
t 614.336.4979
f 614.267.5617
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD			
No.	DATE	DESCRIPTION	APP'VD. DATE:

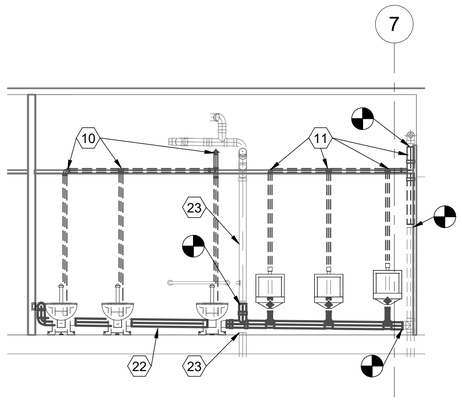
PLUMBING UNDERGROUND DWV NEW WORK PLAN

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.
P-200

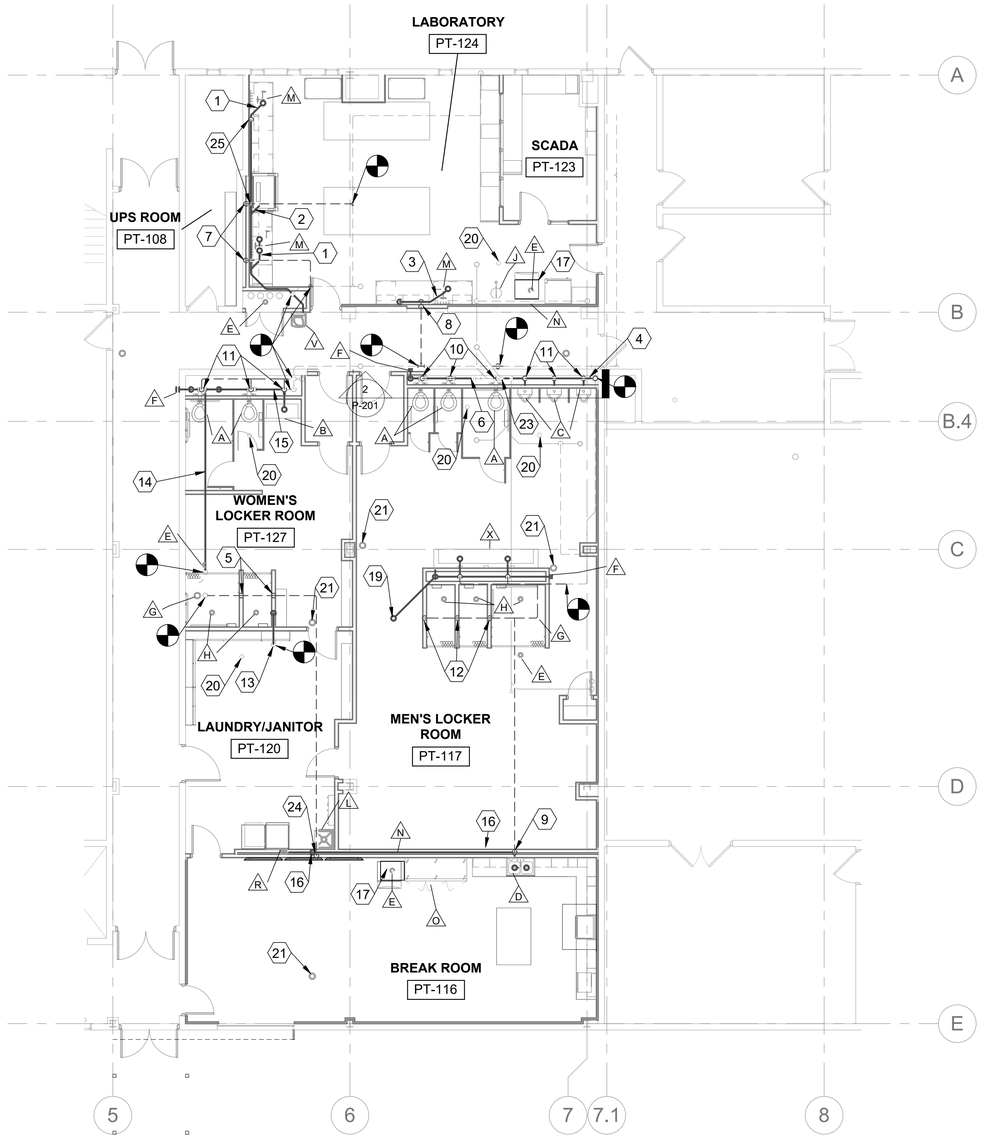
PROJ NO.: 130012-59
DATE: 06/25/2025

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



MEN'S LOCKER ROOM WC AND URINAL CHASE SECTION VIEW

2 1/4" = 1'-0"



PLUMBING FIRST FLOOR DWV NEW WORK PLAN

1 1/8" = 1'-0" N

NEW WORK PLAN NOTES:

1. PROVIDE NEW 2 INCH ACID RESISTANT DRAIN PIPING SERVING LAB SINK AND ROUTE BEHIND CASEWORK. CONNECT TO EXISTING 2 INCH SANITARY DRAIN PIPING.
2. PROVIDE NEW 2 INCH ACID RESISTANT DRAIN PIPING SERVING CUP SINK AND FUME HOOD AND CONNECT TO 2 INCH SANITARY DRAIN PIPING BEHIND CASEWORK.
3. PROVIDE NEW 2 INCH ACID RESISTANT DRAIN PIPING SERVING LAB SINK AND ROUTE BEHIND CASEWORK. CONNECT TO EXISTING 3 INCH UNDERGROUND SANITARY DRAIN PIPING BELOW SLAB. SEE SHEET P-200 FOR SANITARY DRAIN PIPING CONTINUATION.
4. PROVIDE NEW 4 INCH SANITARY DRAIN PIPING IN CHASE SPACE SERVING WATER CLOSETS. ROUTE 4 INCH SANITARY DRAIN PIPING DOWN TO BELOW FINISHED FLOOR. SEE SHEET P-200 FOR SANITARY DRAIN PIPING CONTINUATION.
5. PROVIDE NEW 2 INCH VENT PIPING UP FROM BELOW SLAB IN WALL SPACE TO ABOVE CEILING. CONNECT TO EXISTING 2 INCH SANITARY VENT PIPING IN CEILING SPACE.
6. PROVIDE NEW 4 INCH SANITARY DRAIN PIPING IN CHASE SPACE SERVING WATER CLOSETS AND URINALS. CONNECT TO EXISTING 4 INCH SANITARY DRAIN PIPING IN CHASE SPACE.
7. PROVIDE NEW 2 INCH VENT PIPING UP IN WALL SPACE AND CONNECT TO EXISTING 2 INCH VENT PIPING ABOVE CEILING.
8. PROVIDE NEW 2 INCH VENT PIPING UP IN WALL SPACE AND CONNECT TO EXISTING 4 INCH VENT PIPING ABOVE CEILING.
9. PROVIDE NEW 2 INCH VENT PIPING UP IN WALL SPACE AND CONNECT TO NEW 2 INCH VENT PIPING IN CEILING SPACE.
10. PROVIDE NEW INDIVIDUAL 2 INCH VENT PIPING SERVING EACH PLUMBING FIXTURE UP IN CHASE SPACE TO ABOVE CEILING. COMBINE AND CONNECT TO EXISTING 4 INCH VENT PIPING IN CORRIDOR ABOVE CEILING.
11. PROVIDE NEW INDIVIDUAL 2 INCH VENT PIPING SERVING EACH PLUMBING FIXTURE IN CHASE SPACE. COMBINE AND CONNECT TO EXISTING 2 INCH VENT PIPING IN CHASE SPACE.
12. PROVIDE NEW 2 INCH VENT PIPING UP FROM BELOW SLAB IN WALL SPACE TO ABOVE CEILING. CONNECT TO NEW 2 INCH SANITARY VENT PIPING IN CEILING SPACE.
13. CONNECT TO EXISTING 1-1/2 INCH SANITARY DRAIN PIPING IN CEILING SPACE. EXTEND NEW 1-1/2 INCH SANITARY DRAIN PIPING DOWN WITHIN WALL SPACE TO BELOW FINISHED FLOOR. SEE SHEET P-200 FOR PIPING CONTINUATION.
14. CONNECT TO EXISTING 4 INCH SANITARY DRAIN PIPING IN CEILING SPACE. EXTEND NEW 4 INCH SANITARY DRAIN PIPING TO CHASE SPACE AND CONNECT TO NEW 4 INCH SANITARY DRAIN PIPING IN CHASE SPACE.
15. PROVIDE NEW 4 INCH SANITARY DRAIN PIPING IN CHASE SPACE SERVING WATER CLOSETS AND LAV. CONNECT TO EXISTING 4 INCH SANITARY DRAIN PIPING IN CHASE SPACE.
16. PROVIDE NEW 2 INCH SANITARY DRAIN PIPING SERVING BREAKROOM SINK WITHIN WALL SPACE AFF AND DOWN TO UNDERGROUND. SEE SHEET P-200 FOR PIPING CONTINUATION.
17. PROVIDE 3/4 INCH DRAIN SERVING ELECTRIC ICE MAKER STORAGE BIN AND 1/2 INCH DRAIN SERVING ICE MAKER. ROUTE DRAIN PIPING TO FLOOR DRAIN BELOW.
18. NOT USED.
19. EXTEND NEW 2 INCH SANITARY DRAIN PIPING IN FIRST FLOOR CEILING SPACE DOWN FROM FLOOR ABOVE AND CONNECT TO NEW 4 INCH VERTICAL DRAIN PIPING IN CHASE SPACE.
20. PROVIDE NEW POLISHED NICKEL BRONZE TOP ON EXISTING FLOOR DRAIN.
21. PROVIDE NEW POLISHED NICKEL BRONZE TOP ON EXISTING FLOOR CLEANOUT.
22. PROVIDE NEW 4 INCH SANITARY DRAIN PIPING IN CHASE SPACE SERVING WATER CLOSETS AND URINALS. CONNECT TO EXISTING 4 INCH SANITARY DRAIN PIPING IN CHASE SPACE.
23. INTERCEPT EXISTING 4 INCH SANITARY DRAIN PIPING IN CHASE SPACE. CONNECT TO NEW 4 INCH SANITARY DRAIN PIPING IN CHASE SPACE. CAP REMAINING 4 INCH DRAIN PIPING ABOVE FINISHED FLOOR WITH AIR AND WATER TIGHT JOINT.
24. PROVIDE 2 INCH VENT PIPING FROM BELOW FINISHED FLOOR SERVING MOP SINK AND EXTEND UP WITHIN WALL SPACE TO ABOVE CEILING. ROUTE ABOVE CEILING AND CONNECT TO NEW 2 INCH VENT PIPING IN CEILING SPACE.
25. PROVIDE NEW 1-1/2 INCH VENT PIPING HORIZONTALLY IN CASEWORK SPACE AND CONNECT TO NEW 2 INCH VENT PIPING SERVING LAB SINK.

STATE OF OHIO
DREW A ROBINSON
PE-89438
REGISTERED PROFESSIONAL ENGINEER

tec inc.
engineering & environmental
#916 Brandenton Ave, STE 240
Dublin, OH 43017
t 614.267.4477
f 614.267.5617
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

No.	DATE	DESCRIPTION	APP'VD.
		SUBMITTAL/REVISION RECORD	DATE:

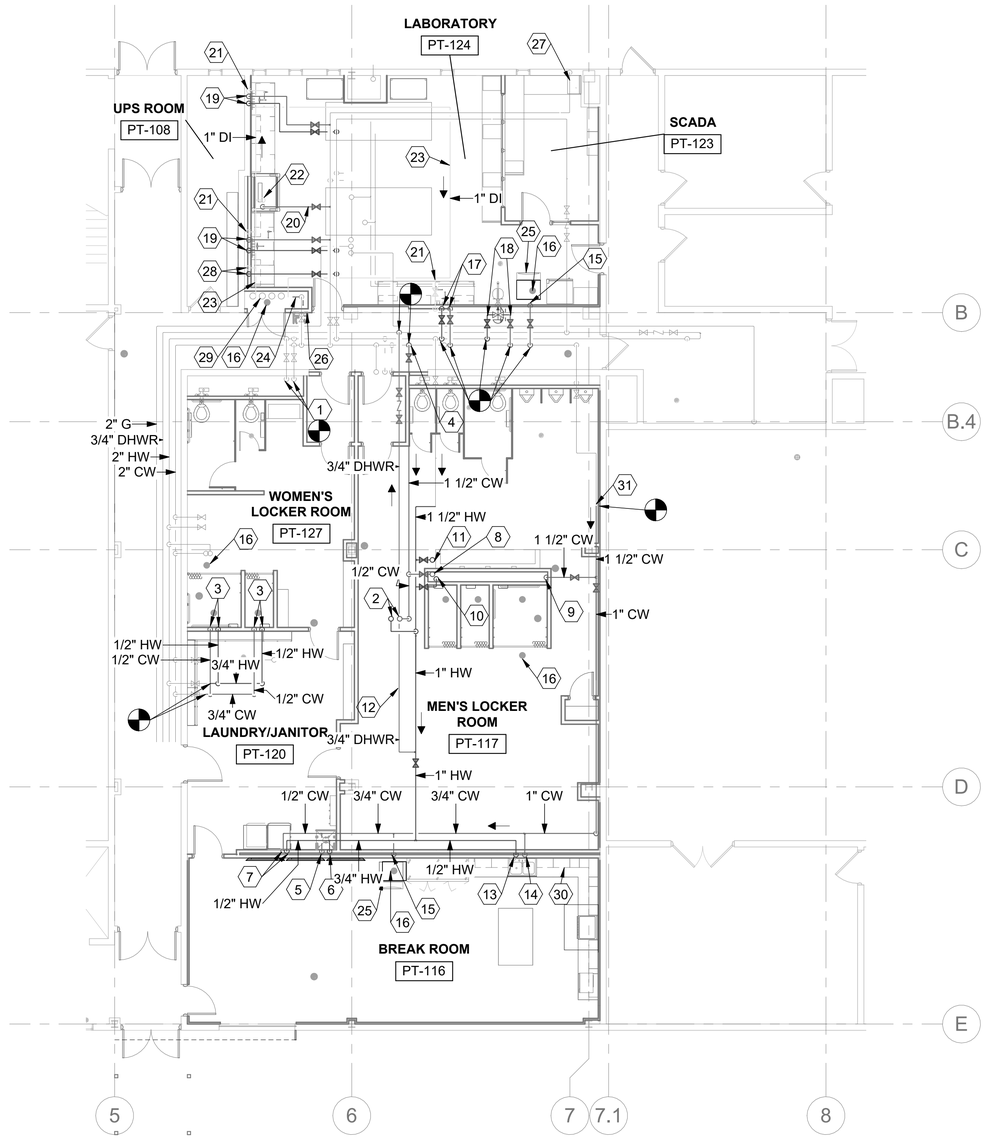
PLUMBING FIRST FLOOR DWV NEW WORK PLAN

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.
P-201

PROJ NO.: 130012-59
DATE: 06/25/2025

1/16" = 1'-0" | 1/8" = 1'-0" | 3/16" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"



1 PLUMBING FIRST FLOOR DOMESTIC NEW WORK PLAN

1/8" = 1'-0"

NEW WORK PLAN NOTES:

1. CONNECT TO EXISTING 1-1/2 INCH DCW PIPING AND 3/4 INCH DHW PIPING IN CHASE SPACE AND EXTEND TO FIXTURES. MAKE ALL FINAL CONNECTIONS TO WATER CLOSETS AND LAVATORIES COMPLETE.
2. PROVIDE NEW 1/2 INCH DCW AND DHW BRANCH PIPING UP THROUGH FIRST FLOOR CEILING AND INTO SECOND FLOOR WALL SPACE SERVING MEETING ROOM BAR SINK. SEE SHEET P-203 FOR DOMESTIC WATER PIPING CONTINUATION.
3. CONNECT TO EXISTING 3/4 INCH DCW AND DHW PIPING ABOVE CEILING AND EXTEND 1/2 INCH DCW AND DHW PIPING DOWN IN WALL TO SHOWER VALVE. MAKE ALL FINAL CONNECTIONS COMPLETE.
4. PROVIDE NEW 1-1/2 INCH DCW PIPING AND CONNECT TO EXISTING 2 INCH DCW PIPING. EXTEND PIPING AS INDICATED.
5. PROVIDE 3/4 INCH DCW BRANCH PIPING DOWN WITHIN WALL SPACE TO SERVE MOP SINK. MAKE ALL FINAL CONNECTIONS COMPLETE.
6. PROVIDE 3/4 INCH DHW BRANCH PIPING DOWN WITHIN WALL SPACE TO SERVE MOP SINK. MAKE ALL FINAL CONNECTIONS COMPLETE.
7. PROVIDE 1/2 INCH DCW AND DHW BRANCH PIPING DOWN WITHIN WALL SPACE TO WASHER BOX. MAKE ALL FINAL CONNECTIONS COMPLETE.
8. PROVIDE 1-1/2 INCH DCW PIPING UP THROUGH FLOOR INTO SECOND FLOOR CHASE SPACE. SEE SHEET P-203 FOR PIPING CONTINUATION.
9. CONNECT TO EXISTING 1-1/2 INCH DCW PIPING IN CEILING SPACE AND EXTEND 1-1/2 INCH DCW PIPING TO GO DOWN WITHIN CHASE SPACE. MAKE ALL FINAL CONNECTIONS TO SHOWER VALVES AND LAVATORIES COMPLETE.
10. CONNECT TO EXISTING 1-1/2 INCH DHW PIPING IN CEILING SPACE AND EXTEND 1-1/2 INCH DHW PIPING DOWN WITHIN CHASE SPACE. MAKE ALL FINAL CONNECTIONS TO SHOWER VALVES AND LAVATORIES COMPLETE.
11. PROVIDE 1/2 INCH DHW BRANCH PIPING AND EXTEND UP THROUGH FLOOR INTO SECOND FLOOR CHASE SPACE. SEE SHEET P-203 FOR PIPING CONTINUATION.
12. PROVIDE 3/4 INCH DHWR PIPING AND CONNECT TO EXISTING 3/4 DHWR PIPING IN CORRIDOR.
13. PROVIDE 1/2 INCH DHW PIPING DOWN IN WALL SERVING BREAKROOM SINK. MAKE ALL FINAL CONNECTIONS COMPLETE.
14. PROVIDE 1/2 INCH DCW PIPING DOWN IN WALL SERVING BREAKROOM SINK. MAKE ALL FINAL CONNECTIONS COMPLETE.
15. PROVIDE 1/2 INCH DCW PIPING DOWN IN WALL TO ICE MAKER BOX SERVING ELECTRIC ICE MAKER WITH STORAGE BIN. MAKE ALL FINAL CONNECTIONS COMPLETE.
16. PROVIDE 1/2 DCW PIPING BELOW FINISHED FLOOR IN SLAB AND CONNECT TO FLOOR DRAIN TRAP PRIMER CONNECTION. LOCATE TRAP PRIMER VALVE ABOVE CEILING. MAKE ALL FINAL CONNECTIONS COMPLETE.
17. CONNECT TO EXISTING 2 INCH DCW AND DHW PIPING IN CORRIDOR AND EXTEND 1/2 INCH DCW AND DHW PIPING DOWN IN WALL SPACE SERVING LAB SINK. MAKE ALL FINAL CONNECTIONS COMPLETE.
18. CONNECT TO EXISTING 2 INCH DCW AND DHW PIPING IN CORRIDOR AND EXTEND 3/4 INCH DCW AND DHW PIPING AND CONNECT TO EMERGENCY SHOWER THERMAL MIXING VALVE ABOVE CEILING. EXTEND TEPID WATER PIPING TO EMERGENCY SHOWER AND MAKE ALL FINAL CONNECTIONS COMPLETE.
19. CONNECT TO EXISTING 3/4 INCH DCW AND DHW PIPING IN CEILING SPACE AND EXTEND 1/2 INCH DCW AND DHW PIPING DOWN IN WALL SPACE SERVING LAB SINK. MAKE ALL FINAL CONNECTIONS COMPLETE.
20. CONNECT TO EXISTING 3/4 DCW PIPING IN CEILING SPACE AND EXTEND 1/2 INCH DCW PIPING TO FUME HOOD. MAKE ALL FINAL CONNECTIONS COMPLETE.
21. PROVIDE 1/2 INCH DI WATER PIPING DOWN WITHIN WALL SPACE SERVING LAB SINK. MAKE ALL FINAL CONNECTIONS COMPLETE.
22. PROVIDE 1/2 INCH DI WATER PIPING AND CONNECT TO FUME HOOD. MAKE ALL FINAL CONNECTIONS COMPLETE.
23. PROVIDE NEW 1 INCH DI WATER PIPING LOOP ABOVE CEILING.
24. CONNECT TO EXISTING 1/2 INCH DCW PIPING AND EXTEND 1/2 INCH PIPING TO DI WATER SYSTEM. MAKE ALL FINAL CONNECTIONS COMPLETE.
25. INSTALL ELECTRIC ICE MAKER WITH STORAGE BIN PER PLUMBING FIXTURE SCHEDULE. MAKE ALL FINAL CONNECTIONS COMPLETE.
26. CONNECT TO EXISTING 1/2 INCH DCW PIPING AND EXTEND 1/2 INCH DCW PIPING TO NEW ELECTRIC WATER COOLER. MAKE ALL FINAL CONNECTIONS COMPLETE.
27. PROVIDE NEW 3/4 INCH VACUUM BREAKER AND BALL VALVES BOTH UP AND DOWN STREAM OF THE VACUUM BREAKER SERVING OUTDOOR HYDRANT. ZURN MODEL 460XL WITH 1260XL WATER HAMMER ARRESTER. INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
28. PROVIDE 1/2 INCH DI AND DHW PIPING DOWN IN WALL SPACE SERVING GLASSWARE WASHER. MAKE ALL FINAL CONNECTIONS COMPLETE.
29. REINSTALL RELOCATED DI SYSTEM. PROVIDE NEW DI WATER RECIRCULATION PUMP AND MAKE ALL FINAL CONNECTIONS COMPLETE FOR A FULLY FUNCTIONAL SYSTEM. PUMP BASIS OF DESIGN: WEBTROL PC50R, 120V. PROVIDE ALL VALVES AND ACCESSORIES REQUIRED PER MANUFACTURER'S RECOMMENDATIONS. ALL VALVE AND ACCESSORIES SHALL BE APPROVED FOR USE IN A DEIONIZED WATER SYSTEM.
30. CONNECT TO EXISTING 1/2 INCH DCW SUPPLY SERVING DOUBLE BOWL SINK AND EXTEND 1/2 INCH DCW PIPING TO SERVE NEW COUNTERTOP COFFEE MACHINE. PROVIDE BRANCH PIPING WITH 1022 BACKFLOW PREVENTER AND ISOLATION BALL VALVE ALLOWING FOR KITCHEN SINK OPERATION INDEPENDENT OF COFFEE MACHINE OPERATION. ALL NEW BRANCH PIPING SHALL BE CONCEALED IN CABINET SPACE UNTIL FINAL STUB UP, MAKE ALL FINAL CONNECTIONS COMPLETE. COORDINATE EXACT LOCATION WITH OWNER AND ARCHITECT.
31. CONNECT TO EXISTING 1-1/2 INCH DCW PIPING IN CEILING SPACE AND EXTEND NEW DCW PIPING AS SHOWN.

STATE OF OHIO
DREW A ROBINSON
PE-89438
REGISTERED PROFESSIONAL ENGINEER

tec inc. engineering & interiors
#916 Brookstone Ave, STE 240
Dublin, OH 43017
t 614.267.4477
f 614.267.5617
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD			
No.	DATE	DESCRIPTION	APP'VD.
			DATE:

PLUMBING FIRST FLOOR DOMESTIC NEW WORK PLAN

Eastern Regional Water Reclamation Facility Operations Building Renovation

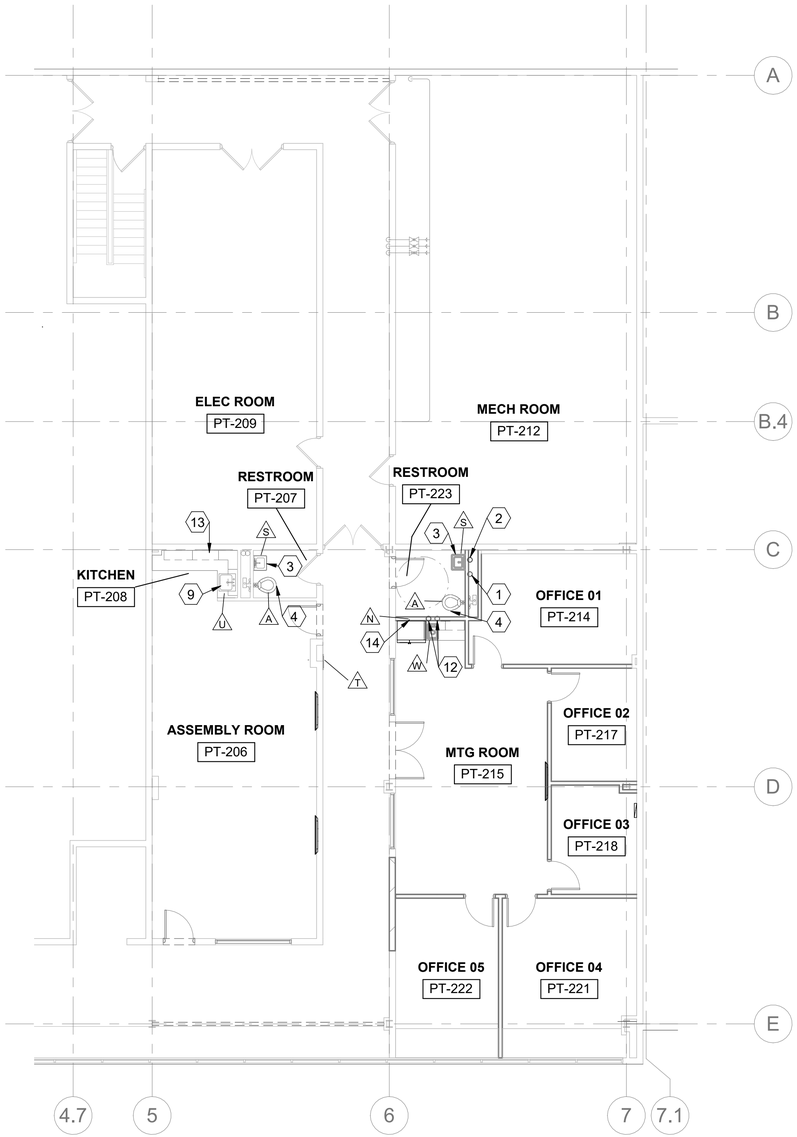
SHEET NO.

P-202

PROJ NO.: 130012-59

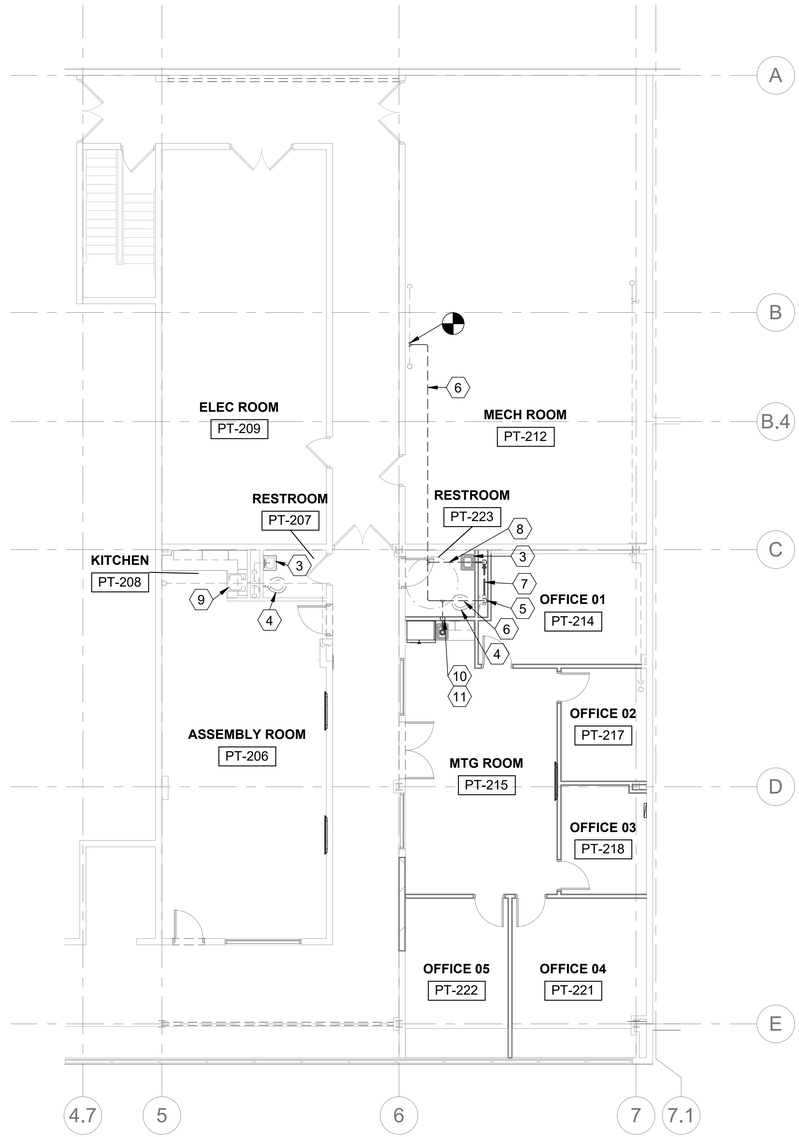
DATE: 06/25/2025

1/16" = 1'-0" | 1/8" = 1'-0" | 3/16" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"



1 PLUMBING SECOND FLOOR DOMESTIC NEW WORK PLAN

1/8" = 1'-0"



2 PLUMBING SECOND FLOOR DWV NEW WORK PLAN

1/8" = 1'-0"

NEW WORK PLAN NOTES:

1. PROVIDE NEW 1-1/2 INCH DCW PIPING UP INTO CHASE SPACE FROM FLOOR BELOW. MAKE ALL FINAL CONNECTIONS COMPLETE TO LAVATORY AND WATER CLOSET.
2. PROVIDE NEW 1/2 INCH DHW PIPING UP INTO CHASE SPACE FROM FLOOR BELOW. MAKE ALL FINAL CONNECTIONS COMPLETE TO LAVATORY.
3. PROVIDE NEW WALL HUNG LAVATORY AND INSTALL COMPLETE PER DETAIL F/P-300.
4. PROVIDE NEW WALL HUNG WATER CLOSET AND INSTALL COMPLETE.
5. PROVIDE NEW 4 INCH SANITARY DRAIN PIPING SERVING WATER CLOSET. ROUTE 4 INCH SANITARY DRAIN PIPING DOWN THROUGH FLOOR TO FIRST FLOOR CEILING SPACE. SEE SHEET P-201 FOR SANITARY DRAIN PIPING CONTINUATION.
6. PROVIDE NEW 2 INCH VENT PIPING SERVING WATER CLOSET. ROUTE VENT PIPING ABOVE CEILING AND CONNECT TO EXISTING 2 INCH VENT PIPING IN MECHANICAL ROOM.
7. PROVIDE NEW 2 INCH SANITARY DRAIN PIPING AND CONNECT TO NEW 4 INCH SANITARY DRAIN PIPING IN CHASE SPACE.
8. PROVIDE NEW 2 INCH VENT PIPING AND CONNECT TO NEW 2 INCH VENT PIPING ABOVE CEILING.
9. PROVIDE NEW SINGLE BOWL DROP-IN SINK IN EXISTING LOCATION, CONNECT TO EXISTING UTILITIES AND INSTALL COMPLETE.
10. PROVIDE NEW 2 INCH VENT PIPING SERVING BAR SINK UP IN WALL SPACE. EXTEND TO ABOVE CEILING AND CONNECT TO NEW VENT PIPING IN CEILING SPACE.
11. PROVIDE NEW 2 INCH DRAIN PIPING SERVING BAR SINK DOWN IN WALL SPACE TO FIRST FLOOR CEILING SPACE. SEE SHEET P-201 FOR DRAIN PIPING CONTINUATION ON FLOOR BELOW.
12. PROVIDE NEW 1/2" DCW AND DHW PIPING UP IN WALL SPACE TO SERVE BAR SINK. SEE SHEET P-202 FOR PIPING CONTINUATION ON FLOOR BELOW. MAKE ALL FINAL CONNECTIONS COMPLETE.
13. CONNECT TO EXISTING 1/2 INCH DCW SUPPLY SERVING SINGLE BOWL SINK AND EXTEND 1/2 INCH DCW PIPING TO SERVE NEW COUNTERTOP COFFEE MACHINE. PROVIDE BRANCH PIPING WITH 1022 BACKFLOW PREVENTER AND ISOLATION BALL VALVE ALLOWING FOR KITCHEN SINK OPERATION INDEPENDENT OF COFFEE MACHINE OPERATION. ALL NEW BRANCH PIPING SHALL BE CONCEALED IN CABINET SPACE UNTIL FINAL STUB UP, MAKE ALL FINAL CONNECTIONS COMPLETE. COORDINATE EXACT LOCATION WITH OWNER AND ARCHITECT.
14. PROVIDE 1/2 INCH DCW BRANCH PIPING FROM 1/2 INCH DCW PIPING SERVING SINK AND CONNECT TO ICE MAKER BOX SERVING REFRIGERATOR. MAKE ALL FINAL CONNECTIONS COMPLETE TO ICE MAKER BOX AND REFRIGERATOR.

STATE OF OHIO
DREW A ROBINSON
PE-89438
REGISTERED PROFESSIONAL ENGINEER

tec inc. engineering & interiors
4965 Bradenton Ave., STE 240
Dublin, OH 43017
t 614.336.4673
f 614.267.5617
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

No.	DATE	DESCRIPTION	APP'D.	DATE

SUBMITTAL/REVISION RECORD

PLUMBING SECOND FLOOR NEW WORK PLANS

Eastern Regional Water Reclamation Facility Operations Building Renovation

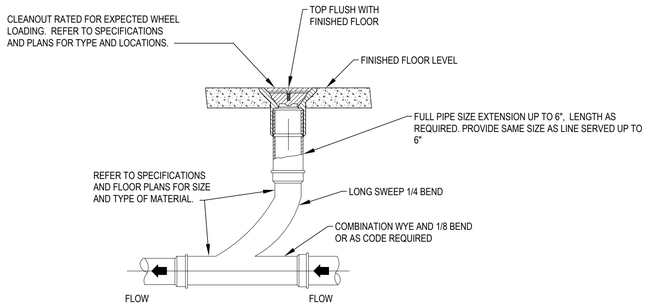
SHEET NO.

P-203

PROJ NO.: 130012-59

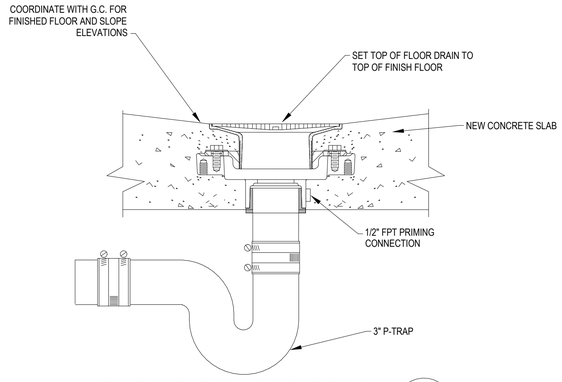
DATE: 06/25/2025

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



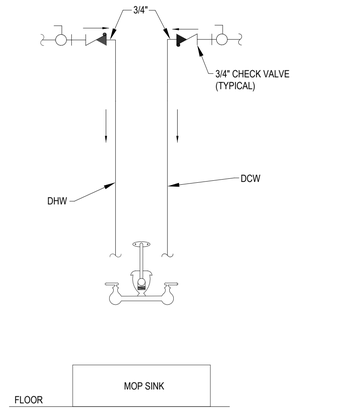
INTERIOR CLEANOUT DETAIL

N.T.S. A / P-300



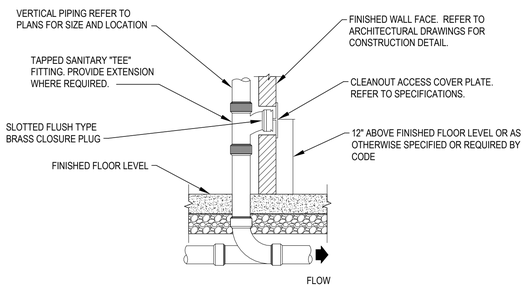
FLOOR DRAIN DETAIL

N.T.S. B / P-300



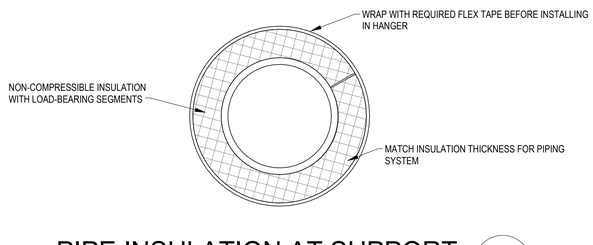
MOP SINK PIPING DETAIL

N.T.S. C / P-300



WALL CLEANOUT DETAIL

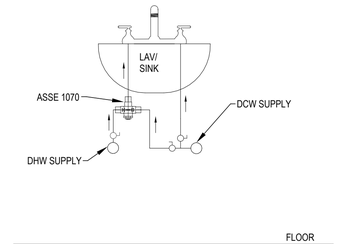
N.T.S. D / P-300



PIPE INSULATION AT SUPPORT

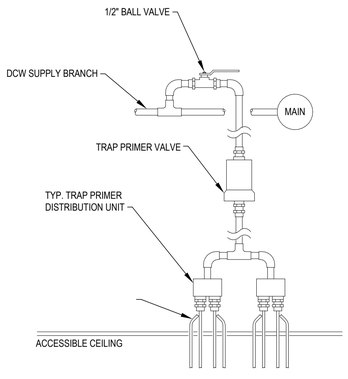
N.T.S. E / P-300

NOTE:
REFER TO SPECIFICATIONS FOR PIPE MATERIALS AND JOINTS.



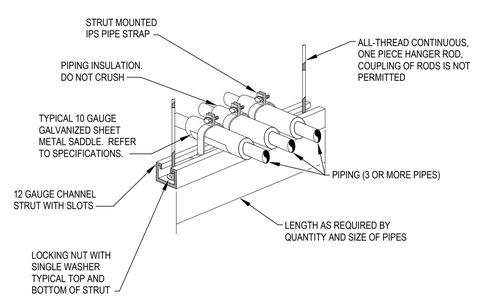
POU ASSE 1070 PIPING DIAGRAM

N.T.S. F / P-300



TRAP PRIMER DETAIL

N.T.S. G / P-300



TRAPEZE PIPE HANGER DETAIL

N.T.S. H / P-300

STATE OF OHIO
DREW A ROBINSON
PE-89438
REGISTERED PROFESSIONAL ENGINEER

tec inc. engineering & surveying
#816 Brodenton Ave. STE 240
Dublin, OH 43017
(614) 340-4979
f 614.267.5617
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'VD:	DATE:

PLUMBING DETAILS

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.
P-300

PROJ NO.: 130012-59
DATE: 06/25/2025

1/16" = 1'-0" 0 4' 8' 16'

1/8" = 1'-0" 0 2' 4' 8'

3/16" = 1'-0" 0 2' 4' 8'

1/4" = 1'-0" 0 1' 2' 4'

3/8" = 1'-0" 0 1' 2' 4'

1/2" = 1'-0" 0 6" 1' 2'

3/4" = 1'-0" 0 3" 6" 1' 2'

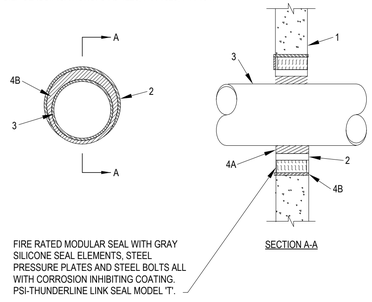
1" = 1'-0" 0 3" 6" 1' 2'

1 1/2" = 1'-0" 0 3" 6" 1'

3" = 1'-0" 0 1" 2" 3" 6" 1'

6" = 1'-0" 0 1" 2" 3" 6"

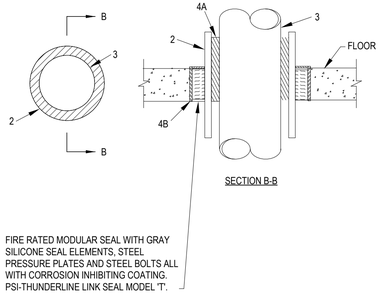
FIRE STOPPING WALL DIAGRAM ONLY (2 HOUR FIRE RATING):
U.L. CLASSIFICATIONS: C-AJ-1226, F-A-1028, F-A-1017



SECTION A-A

FIRE RATED MODULAR SEAL WITH GRAY SILICONE SEAL ELEMENTS, STEEL PRESSURE PLATES AND STEEL BOLTS ALL WITH CORROSION INHIBITING COATING. PSI-THUNDERLINE LINK SEAL MODEL 'T'.

FIRE STOPPING FLOOR DIAGRAM ONLY (2 HOUR FIRE RATING):
U.L. CLASSIFICATIONS: C-AJ-1226, W-J-1067, W-J-1020, W-J-1248



SECTION B-B

FIRE RATED MODULAR SEAL WITH GRAY SILICONE SEAL ELEMENTS, STEEL PRESSURE PLATES AND STEEL BOLTS ALL WITH CORROSION INHIBITING COATING. PSI-THUNDERLINE LINK SEAL MODEL 'T'.

1. WALL ASSEMBLY: MIN 4-1/2 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIAMETER OF OPENING IS 32 IN.

2. METALLIC SLEEVE: NOM 32 IN. DIAM (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY, SLEEVES THROUGH WALLS ARE TO BE EQUAL TO WALL THICKNESS. SLEEVES THROUGH FLOORS ARE TO EXTEND 1-1/2" ABOVE FINISHED FLOOR. SLEEVES THROUGH WATERPROOF FLOORS ARE TO HAVE A CLAMPING RING AND PROJECT A MINIMUM OF 4" ABOVE FINISHED FLOOR.

3. PENETRANT: ONE METALLIC PIPE OR CONDUIT TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND PERIPHERY OF OPENING SHALL BE MIN 0 IN. (POINT CONTACT) TO MAX 1-7/8 IN. PIPE MAY BE INSTALLED WITH CONTINUOUS POINT CONTACT. PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR CONDUITS MAY BE USED:

   A. STEEL PIPE NOM 30 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
   B. IRON PIPE NOM 30 IN. DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.
   C. COPPER PIPE NOM 6 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
   D. COPPER TUBING NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
   E. CONDUIT NOM 6 IN. DIAM (OR SMALLER) STEEL CONDUIT.
   F. CONDUIT NOM 4 IN. DIAM (OR SMALLER) RIGID GALVANIZED METALLIC CONDUIT (RGC).

4. FIRESTOP SYSTEM: THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:

   A. PACKING MATERIAL MIN 4 IN. THICKNESS OF MIN 4 PCF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
   B. FILL, VOID OR CAVITY MATERIAL* -- SEALANT MIN 1/4 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR OR WITH BOTH SURFACES OF WALL. AT THE POINT OR CONTINUOUS CONTACT LOCATIONS BETWEEN PIPE AND CONCRETE, A MIN 1/4 IN. DIAM BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE CONCRETE/PIPE INTERFACE ON THE TOP SURFACE OF FLOOR AND ON BOTH SURFACES OF WALL.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - FS-ONE SEALANT

*BEARING THE UL CLASSIFICATION MARKING

FIRE STOPPING DETAIL

APPLIES TO ALL WALL & FLOOR PENETRATIONS N.T.S.

A
P-301

STATE OF OHIO
DREW A ROBINSON
PE-89438
REGISTERED PROFESSIONAL ENGINEER

tec inc. engineers & surveyors
#915 Brookstone Ave, STE 240
Dublin, OH 43017
(614) 457-4979
f 614.267.5617
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'VD:	DATE:

PLUMBING DETAILS

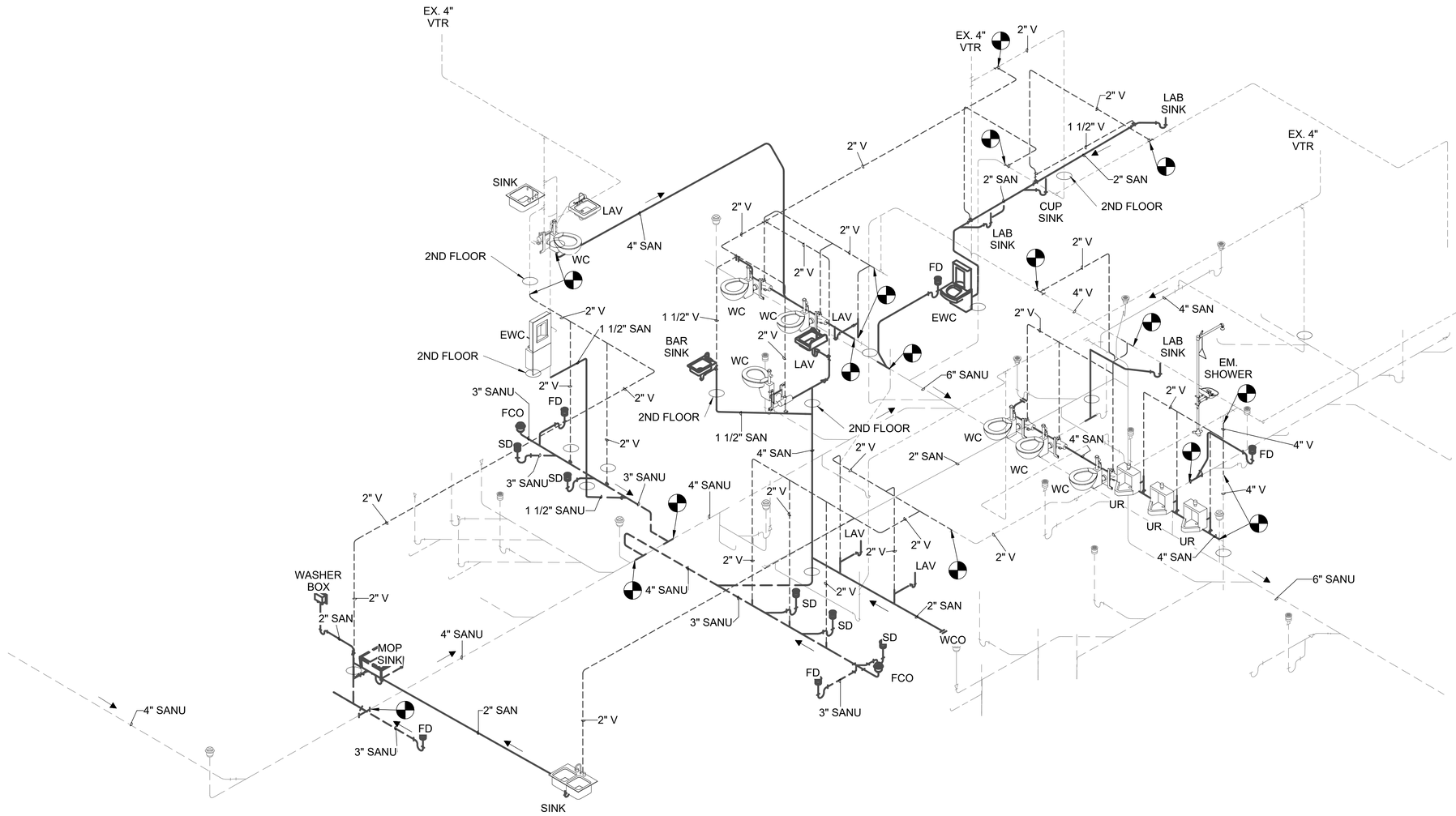
Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.
P-301

PROJ NO.: 130012-59

DATE: 06/25/2025

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



1 DWV ISOMETRIC

STATE OF OHIO
DREW A. ROBINSON
PE-89438
REGISTERED PROFESSIONAL ENGINEER

tec inc. engineering & surveying
#916 Brookstone Ave, STE 240
Dublin, OH 43017
t 614.457.4979
f 614.267.5617
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'VD:	DATE:

PLUMBING DWV ISOMETRIC

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.
P-302

PROJ NO.: 130012-59
DATE: 06/25/2025

1/16" = 1'-0" 0 4' 8' 16' | 1/8" = 1'-0" 0 2' 4' 8' | 3/16" = 1'-0" 0 2' 4' 8' | 1/4" = 1'-0" 0 1' 2' 4' | 3/8" = 1'-0" 0 1' 2' 4' | 1/2" = 1'-0" 0 6" 1' 2' | 3/4" = 1'-0" 0 3" 6" 1' 2' | 1" = 1'-0" 0 3" 6" 1' 2' | 1 1/2" = 1'-0" 0 3" 6" 1' | 3" = 1'-0" 0 1" 2" 3" 6" 1' | 6" = 1'-0" 0 1" 2" 3" 6"

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE	DESCRIPTION	FAUCET OR FLUSH VALVE DESCRIPTION	SUPPLY STOP DESCRIPTION	TRAP DESCRIPTION	ACCESSORY DESCRIPTION	NOTES
A	WATER CLOSET	AMERICAN STANDARD #3351.101: AFWALL "MILLENNIUM" FLOWISE ELONGATED WHITE VITREOUS CHINA WATER CLOSET, WALL MOUNTED, 1.6 GPF SIPHON JET ACTION, 1-1/2" TOP INLET SPUD, EVER-CLEAN SURFACE, STATIC WEIGHT LOAD OF 1,000 LBS., ADA, CONCEALED TRAPWAY, ANSI A117.1.	ZURN #ZER6000AV-CPM-WS1-MOB: CHROME PLATED EXPOSED WATER CLOSET FLUSHOMETER FOR TOP MOUNTED SPUD, 1-1/2" SPUD CONNECTION, 1.6 GPF, BATTERY POWERED SENSOR VALVE WITH MANUAL COURTESY FLUSH ACTION, 'AQUAVANTAGE' CHLOROMINE RESISTANT DIAPHRAGM, 1" IPS SCREWDRIVER ANGLE STOP WITH SWEAT SOLDER ADAPTER AND VANDAL RESISTANT STOP CAP, ZEMS 6 VDC MOTORIZED ACTUATOR, VACUUM BREAKER	INTEGRAL WITH VALVE	INTEGRAL TRAP W/ BOWL.	AMERICAN STANDARD #5910.110: ELONGATED WHITE OPEN-FRONT EXTRA-HEAVY DUTY TOILET SEAT (LESS COVER), NON-CORROSIVE STAINLESS STEEL POSTS AND HINGES, EVER-CLEAN SURFACE, HINGE-POST STOPS.	MEET ADA AS REQUIRED. ZURN #1203-N-4-X CARRIER. MEET 1000 LB. STATIC LOAD.
B	LAVATORY "WOMEN'S LOCKER ROOM"	SOPHSTONE #SOPH-ST: "SLANT" COMPOSITE STONE WITH HONED FINISH, SINGLE DRAIN, CUSTOM DIMENSIONS 4'-0" WIDE X 2'-1" DEEP, WITH PLUMBING ENCLOSURE	ZURN #6955-XL-S-W1-F: "AQUA-FIT" SERIO CHROME PLATED CAST BRASS 4" CENTERSET BODY, BATTERY POWERED INFRA-RED SENSOR ACTIVATION, 0.5 GPM NON-AERATED OUTLET, INLINE FILTERS, LESS POP-UP DRAIN (ROD AND HOLE); NSF-61G, ANSI 372, AND ADA COMPLIANT.	MCGUIRE #LFBV2165CCSS12: LOOSE KEY QUARTER-TURN CHROME-PLATED BRASS VALVE, 1/2" X 3/8" COMPRESSION JOINTS W/ 12" SS FLEXIBLE CONNECTOR.	MCGUIRE #8902CBF:1-1/2"x1-1/4", 17 GAUGE CHROME PLATED CAST BRASS 'P' TRAP WITH CLEANOUT AND DEEP BOX FLANGE ESCUTCHEON.	MCGUIRE #155A; 1-1/4" CHROME-PLATED BRASS GRID STRAINER AND TAILPIECE. ASSE 1070 TEMPERATURE LIMITING DEVICE (SEE ITEM 'I').	MEET ASSE 1070 REQUIREMENTS. COMPLY WITH NSF-61G AND ANSI 372 STANDARDS. MEET ADA AS REQUIRED.
C	URINAL	AMERICAN STANDARD WASHBROOK FLOWISE MODEL #6590.001 URINAL; 0.125 GPF; EXPOSED 3/4" TOP SPUD FLUSH VALVE CONNECTION; FLUSHING RIM; WASHOUT FLUSHING ACTION; 18-7/8" W X 26-1/8" L X 9-1/4" D; WHITE VITREOUS CHINA; EXTENDED SIDES; 2" DRAIN OUTLET; STRAINER; WALL HUNG; ADA;	ZURN #ZER6003AV-CPM-ULF: CHROME PLATED EXPOSED URINAL FLUSHOMETER FOR TOP MOUNTED SPUD, 3/4" SPUD CONNECTION, 0.125 GPF, BATTERY POWERED SENSOR VALVE WITH MANUAL COURTESY FLUSH ACTION, 'AQUAVANTAGE' CHLOROMINE RESISTANT DIAPHRAGM, 3/4" IPS SCREWDRIVER ANGLE STOP WITH SWEAT SOLDER ADAPTER AND VANDAL RESISTANT STOP CAP, VACUUM BREAKER	INTEGRAL WITH VALVE	INTEGRAL WITH FIXTURE; 2".	N/A.	MEET ADA AS REQUIRED. ZURN #Z1221 URINAL CARRIER.
D	KITCHEN SINK	ELKAY #LRAD332265-3: "LUSTERTONE CLASSIC" 18 GAUGE 304 STAINLESS STEEL DOUBLE BOWL SINK, 33" X 22" X 6-1/2" DEEP, SATIN FINISH, BOTTOM PADS, CENTER DRAIN PLACEMENT (3-3/8" DRAIN OPENINGS), 3-HOLE 8" CENTERSET FAUCET OPENINGS, COUNTERTOP MOUNTING HARDWARE, ASME A112.19.3	ZURN # Z7870C-XL-VP-LA: CHROME PLATED CAST BRASS CENTERSET BODY WITH SINGLE METAL HANDLE, WASHERLESS CERAMIC DISC VALVE CARTRIDGE WITH INTEGRAL HOT LIMIT SAFETY STOP, 2.2 GPM VANDAL RESISTANT PRESSURE COMPENSATING MULTI-LAMINAR SPRAY, NSF-61G, ANSI 372, AND ADA COMPLIANT.	MCGUIRE #LFBV2165CCSS12: LOOSE KEY QUARTER-TURN CHROME-PLATED BRASS VALVE, 1/2" X 3/8" COMPRESSION JOINTS.	MCGUIRE #8912C: 1-1/2"X1-1/2", 17 GAUGE CHROME PLATED CAST BRASS 'P' TRAP WITH CLEAN OUT AND DEEP BOX FLANGE.	INSINKERATOR "EVOLUTION ESSENTIAL XTR" FOR WASTE DISPOSAL: 3/4 HP, 120V, 60 HZ, 8.1A, 1-1/2" DRAIN CONNECTION, DISHWASHER DRAIN CONNECTION MCGUIRE #151AM: SS BASKET STRAINER, 1-1/2" BY 4" TAILPIECE.	COORDINATE SINK INSTALL WITH COUNTERTOP INSTALLER, COORDINATE W/ EC.
E	FLOOR DRAIN	ZURN #ZN415B-NL-P-VP: DURA-COATED CAST IRON BODY WITH NEO-LOC BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS AND TYPE "B" POLISHED NICKEL BRONZE, ROUND HEEL-PROOF LIGHT DUTY STRAINER, TRAP PRIMER CONNECTION, VANDAL-PROOF SCREWS.		N/A.	N/A.	TRAP PRIMER CONNECTION ON FLOOR DRAIN. TRAP PRIMER VALVE: PPP #PR-500, AND #DU-4 DISTRIBUTION BOX - WHEN REQUIRED.	COORDINATE W/ GC AND ARCHITECT FOR EXACT LOCATIONS.
F	WALL CLEANOUT	ZURN #ZN1400-SZ-NL-BP-VP: "LEVEL-TROL" 5" SQUARE, ADJUSTABLE LEVELING FLOOR CLEANOUT, NEO-LOC CONNECTION, DCCI WITH POLISHED NICKEL BRONZE TOP, BRONZE PLUG, VANDAL-PROOF SCREWS.		N/A.	N/A.	N/A.	COORDINATE W/ GC AND ARCHITECT FOR EXACT LOCATIONS.
G	FLOOR CLEANOUT	ZURN #ZN1400-SZ-NL-BP-VP: "LEVEL-TROL" 5" SQUARE, ADJUSTABLE LEVELING FLOOR CLEANOUT, NEO-LOC CONNECTION, DCCI WITH POLISHED NICKEL BRONZE TOP, BRONZE PLUG, VANDAL-PROOF SCREWS.		N/A.	N/A.	N/A.	COORDINATE W/ GC AND ARCHITECT FOR EXACT LOCATIONS.
H	SHOWER DRAIN	ZURN #ZN415B-NL-P-VP-Y: DURA-COATED CAST IRON BODY WITH NEO-LOC BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS AND TYPE "B" POLISHED NICKEL BRONZE, ROUND HEEL-PROOF LIGHT DUTY STRAINER, TRAP PRIMER CONNECTION, VANDAL-PROOF SCREWS, AND SEDIMENT BUCKET.		N/A.	N/A.	TRAP PRIMER CONNECTION ON FLOOR DRAIN. TRAP PRIMER VALVE: PPP #PR-500, AND #DU-4 DISTRIBUTION BOX - WHEN REQUIRED.	COORDINATE W/ GC AND ARCHITECT FOR EXACT LOCATIONS.
I	ASSE 1070 TEMPERATURE LIMITING DEVICE	WATTS #LFUSG-B-SC-M2: "UNDER SINK GUARDIAN" THERMOSTATIC MIXING VALVE, LEAD-FREE BRASS BODY, TAMPER-RESISTANT LOCKING NUT, BUILT-IN CHECK VALVES, INTEGRAL STRAINERS WITH 40 MESH STAINLESS STEEL SCREENS, "H" PATTERN FOR COLD AND HOT WATER INLETS WITH COLD AND TEMPERED WATER OUTLETS, SATIN CHROME FINISH.		ASSE 1070 DEVICE SHALL BE INTEGRALLY INSTALLED WITH THE SUPPLY SYSTEM SERVING ALL LAVATORIES.	N/A.	TYPE OF CONNECTIONS (JOINTS) SHALL MEET SUPPLY SYSTEM.	MUST BE NSF 61G AND ANSI 372 COMPLIANT.
J	EMERGENCY SHOWER, EYE/FACE WASH	BRADLEY #S19314AC: COMBINATION DRENCH SHOWER AND EYE/FACE WASH UNIT, 1-1/4" NPT TEPID WATER INLET AND 1-1/4" NPT DRAIN OUTLET, GALVANIZED STEEL PIPING WITH SAFETY YELLOW COATING, 3.1" PLASTIC IMPACT RESISTANT SHOWERHEAD, TYPE 304 SS PULL ROD AND HANDLE, CHROME-PLATED BRASS 1" SHOWER BALL VALVE AND 1/2" STAY-OPEN EYE/FACE WASH VALVE, SHOWER AND EYE/FACE WASH FLOW CONTROLS, HALO EYE/FACE WASH SYSTEM WITH SS HAND AND FOOT ACTIVATION PADS, FLIP OPEN DUST COVERS, MOUNTING HARDWARE, ANSI Z358.1 CERTIFIED.		N/A.	N/A.	BRADLEY #S19-2150: BRASS THERMAL MIXING VALVE, ANSI Z358.1 AND ASSE 1071 CERTIFIED, RELIABLE LIQUID-FILLED THERMOSTAT, 10-YEAR WARRANTY, INTEGRAL STRAINER CHECKSTOPS, COLD WATER BYPASS, DIRT/ LIME RESISTANT.	CONFIRM EXACT LOCATION WITH GC AND ARCHITECT. MOUNT TMV ABOVE CEILING.
K	WATER HAMMER ARRESTOR	WATTS #LF15M2-DR: PRE-CHARGED LEAD-FREE WATER HAMMER ARRESTOR, COPPER BODY, POLYPROPYLENE PISTON, EPDM O-RING, AND BRASS NPT THREADED CONNECTION; IAPMO LISTED AND CERTIFIED - ASSE 1010, PDI WH201, ANSI A112.1M, NSF 61 AND ANSI 372.		N/A.	N/A.	N/A.	LOCATE AND SIZE ACCORDING TO CONTRACT DOCUMENTS, AND ACCORDING TO THE MANUFACTURER'S WRITTEN INSTRUCTIONS. CONFIRM EXACT LOCATION WITH GC AND ARCHITECT.
L	JANITOR SINK	MUSTEE #63M: ONE-PIECE WHITE MARBLEIZED MOLDED FIBERGLASS, 24" X 24" X 10" DEEP, SS DRAIN SHALL BE INTEGRALLY MOLDED IN UNIT WITH REMOVABLE STAINLESS STEEL STRAINER, 3" DRAIN SEAL, MEET OR EXCEED ANSI Z 124-2017.	ZURN #Z843M1-FC: POLISHED CHROME-PLATED CAST BRASS 8 " JANITOR SINK FAUCET, QUARTER-TURN CERAMIC DISC CARTRIDGES, 3/8" SHORT SWIVEL INLETS WITH ADJUSTABLE CENTERS, INTEGRAL SERVICE STOPS, 6 " CENTERLINE CAST BRASS SPOUT WITH CHEMICAL RESISTANT ATMOSPHERIC VACUUM BREAKER, 3/4 " HOSE THREADED OUTLET, PAIL HOOK, 2.0 GPM LAMINAR FLOW, ADJUSTABLE WALL BRACE, 2-1/2 " VANDAL-RESISTANT COLOR CODED BRASS LEVER HANDLES, ASSE 1001, ADA.	N/A.	N/A.	(3) SS HIGH IMPACT BUMPER GUARDS FOR OPEN EDGE PROTECTION; HEAVY DUTY HOSE AND HOSE HOLDER.	
M	LABORATORY FIXTURE/ DEVICE	LABORATORY FIXTURE (SINKS, ETC.) FURNISHED BY OTHER DISCIPLINE	LABORATORY FAUCETS, TURRETS, AND OTHER DEVICES/ ACCESSORIES FURNISHED BY OTHER DISCIPLINE.	MCGUIRE #LFBV2165CCSS12: LOOSE KEY QUARTER-TURN CHROME-PLATED BRASS VALVE, 1/2" X 3/8" COMPRESSION JOINTS.	LABORATORY SINK DRAIN OUTLET FBO - INSTALLED BY PC; PC SHALL PROVIDE AW TRAP AND ALL OTHER DRAIN PIPING AS REQUIRED.	PROVIDE ACID WASTE (RESISTANT) MATERIALS FOR THE DRAIN DISCHARGE PIPING. PROVIDE REQUIRED PIPING AND CONNECTIONS FOR ALL LABORATORY SYSTEM CONNECTIONS - TURRETS, FIXTURES, EQUIPMENT, ETC.	CONFIRM EXACT LOCATION WITH GC AND ARCHITECT. REFER TO TRADE COORDINATION TABLE IN DIVISION 01 OF SPECIFICATIONS FOR FINAL CONNECTION RESPONSIBILITIES.
N	ICE MAKER BOX	GUY GRAY #SS1B1AB: STAINLESS STEEL ICE MAKER BOX WITH LEAD FREE QUARTER TURN SWEAT VALVE..		INTEGRAL WITH BOX. PROVIDE REQUIRED TUBING FOR FINAL CONNECTION TO EQUIPMENT.	N/A.	ASSE 1022 BACKFLOW PREVENTER.	NSF 61, ANSI 372. COORDINATE INSTALLATION HEIGHT WITH ARCHITECT. MAKE ALL FINAL EQUIPMENT CONNECTIONS COMPLETE.
O	ELECTRIC ICE MACHINE W/ STORAGE BIN	MANITOWOC #IRT0500A-D-570: AIR COOLED, REGULAR ICE SHAPE, 543 LBS. BIN STORAGE, EASY TOUCH DISPLAY, PROGRAMMABLE ICE PRODUCTION, HINGE FRONT DOOR SWING OUT, REMOVABLE WATER TROUGH/DISTRIBUTION TUBE/CURTAIN/WATER PROBE/WATER PUMP, INTELLIGENT DIAGNOSTICS, ACOUSTICAL ICE SENSING PROBE, DURATECH EXTERIOR, 3,800 BTUH AVERAGE, 115V/60/1, 15A, PLUG-IN CORD. PROVIDED BY OTHER DISCIPLINE.		N/A.	N/A.	N/A.	MAKE ALL FINAL DRAIN AND DOMESTIC WATER CONNECTIONS TO EQUIPMENT.
P	SHOWER (ADA)	SHOWER BASE AND WALLS BY OTHERS.	SYMMONS "SAFETYMIX" #1-25-FSB-1.5-VP-X: 3-PORT PRESSURE BALANCING MIXING VALVE WITH LEVER HANDLE AND ADJUSTABLE STOP SCREW, OPEN FLOW FS HAND SHOWER WITH 5-FOOT FLEXIBLE METAL HOSE, INLINE VACUUM BREAKER, WALL CONNECTION AND FLANGE, 30" ADJUSTABLE SLIDE BAR, 1.5 GPM, POLISHED CHROME FINISH, VANDAL RESISTANT, INTEGRAL STOPS AT VALVE. MEETS ADA.	INTEGRAL WITH VALVE	INTEGRAL WITH UNDER FLOOR DRAIN PIPING - PROVIDED BY PC.	N/A.	FOLLOW MANUFACTURER'S WRITTEN INSTRUCTIONS. INSTALL PER ADA STANDARDS.
Q	SHOWER	SHOWER BASE AND WALLS BY OTHERS.	SYMMONS "SAFETYMIX" #1-100-1.5-VP-X: PRESSURE BALANCING MIXING VALVE WITH LEVER HANDLE AND ADJUSTABLE STOP SCREW, SINGLE MODE SHOWERHEAD WITH ADJUSTABLE FLOOD OR MIST SPRAY WITH SHOWER ARM, 1.5 GPM, POLISHED CHROME FINISH, VANDAL RESISTANT, INTEGRAL STOPS AT VALVE. ASME A112.18.1.	INTEGRAL WITH VALVE	INTEGRAL WITH UNDER FLOOR DRAIN PIPING - PROVIDED BY PC.	N/A.	FOLLOW MANUFACTURER'S WRITTEN INSTRUCTIONS.
R	CLOTHES WASHER BOX	GUY GRAY #WB200HATM: RIGHT DRAIN GALVANIZED WMOB W/ SINGLE LEVER, ARRESTER VALVE, G90 HOT DIPPED GALVANIZED STEEL, 20 GAUGE BOX AND 20 GAUGE FACEPLATE, 1/2" MIP/SWEAT CONNECTION, 2" THREADED DRAIN.		INTEGRAL WITH BOX. PROVIDE SS FLEXIBLE CONNECTORS FOR FINAL EQUIPMENT CONNECTION.	INTEGRAL WITH SANITARY SYSTEM	N/A.	COMPLY WITH ASME A112.18.1 AND ASSE 1010. COORDINATE LOCATION WITH A/E. MAKE FINAL EQUIPMENT CONNECTIONS.
S	LAVATORY (WALL HUNG)	AMERICAN STANDARD #0355.012: "LUCERNE" WALL HUNG WHITE VITREOUS CHINA LAVATORY, FRONT OVERFLOW, 20-1/2" X 18-1/4" WITH 6-1/2" DEEP BOWL, SELF DRAINING DECK AREA WITH CONTOURED BACK AND SIDE SPLASH SHIELDS, FAUCET LEDGE, (3) FAUCET HOLES AT 4" CENTERSET, CONCEALED ARMS SUPPORT, ADA, ASME A112.19.2.	ZURN #6955-XL-S-W1-F: "AQUA-FIT" SERIO CHROME PLATED CAST BRASS 4" CENTERSET BODY, BATTERY POWERED INFRA-RED SENSOR ACTIVATION, 0.5 GPM NON-AERATED OUTLET, INLINE FILTERS, LESS POP-UP DRAIN (ROD AND HOLE); NSF-61G, ANSI 372, AND ADA COMPLIANT.	MCGUIRE #LFBV2165CCSS12: LOOSE KEY QUARTER-TURN CHROME-PLATED BRASS VALVE, 1/2" X 3/8" COMPRESSION JOINTS W/ 12" SS FLEXIBLE CONNECTOR.	MCGUIRE #8902CBF:1-1/2"x1-1/4", 17 GAUGE CHROME PLATED CAST BRASS 'P' TRAP WITH CLEANOUT AND DEEP BOX FLANGE ESCUTCHEON.	MCGUIRE #155A; 1-1/4" CHROME-PLATED BRASS GRID STRAINER AND TAILPIECE. ASSE 1070 TEMPERATURE LIMITING DEVICE (SEE ITEM 'I').	ZURN #Z1231 CARRIER. MEET ASSE 1070 REQUIREMENTS. COMPLY WITH NSF-61G AND ANSI 372 STANDARDS. MEET ADA AS REQUIRED.
T	ELECTRIC BOTTLE FILLER (RECESSED)	OASIS #MW8F2EBQ: "MODULAR CONTACTLESS QUASAR VERSAFILLER" (1) COMPARTMENT BARRIER-FREE BOTTLE FILLER, PROVIDES 8.0 GPH OF CHILLED WATER, UV-C LED TREATMENT, 1/4 HP COMPRESSOR, 115 V/ 60 HZ/ 5.0 A/ 500 W, CONTACTLESS ACTIVATION WITH PROGRAMMABLE AUTO SHUT OFF, BUILT IN FILTER MONITOR AND BOTTLE COUNTER, LED LIGHTED ALCOVE, PANEL LOCKS FOR ACCESS, STAINLESS STEEL FINISH AND HEAVY DUTY GALVANIZED FRAME, BUILT-IN FILTER MONITOR AND BOTTLE COUNTER, WITH "VERSA-FILTER III" WATER PURIFICATION SYSTEM, HARDWIRED.		MCGUIRE #LFBV2165CCSS12: LOOSE KEY QUARTER-TURN CHROME-PLATED BRASS VALVE, 1/2" X 3/8" COMPRESSION JOINTS W/ 12" SS FLEXIBLE CONNECTOR.	MCGUIRE #8902CBF:1-1/2"x1-1/4", 17 GAUGE CHROME PLATED CAST BRASS 'P' TRAP WITH CLEANOUT AND DEEP BOX FLANGE.	N/A.	COORDINATE POWER SUPPLY W/ EC. MUST BE ADA, NSF 61G AND ANSI 372 COMPLIANT.
U	SINGLE BOWL SINK	ELKAY #LRAD252265-1: "LUSTERTONE CLASSIC" 18 GAUGE 304 STAINLESS STEEL SINGLE BOWL SINK, 25" X 22" X 6-1/2" DEEP, SATIN FINISH, BOTTOM PADS, CENTER DRAIN PLACEMENT (3-3/8" DRAIN OPENINGS), 1-HOLE FAUCET OPENINGS, COUNTERTOP MOUNTING HARDWARE, ASME A112.19.3	ZURN # Z7870C-XL-VP-LA: CHROME PLATED CAST BRASS CENTERSET BODY WITH SINGLE METAL HANDLE, WASHERLESS CERAMIC DISC VALVE CARTRIDGE WITH INTEGRAL HOT LIMIT SAFETY STOP, 2.2 GPM VANDAL RESISTANT PRESSURE COMPENSATING MULTI-LAMINAR SPRAY, NSF-61G, ANSI 372, AND ADA COMPLIANT.	MCGUIRE #LFBV2165CCSS12: LOOSE KEY QUARTER-TURN CHROME-PLATED BRASS VALVE, 1/2" X 3/8" COMPRESSION JOINTS.	MCGUIRE #8912C: 1-1/2"X1-1/2", 17 GAUGE CHROME PLATED CAST BRASS 'P' TRAP WITH CLEAN OUT AND DEEP BOX FLANGE.	INSINKERATOR "EVOLUTION ESSENTIAL XTR" FOR WASTE DISPOSAL: 3/4 HP, 120V, 60 HZ, 8.1A, 1-1/2" DRAIN CONNECTION, DISHWASHER DRAIN CONNECTION. MCGUIRE #151AM: SS BASKET STRAINER, 1-1/2" BY 4" TAILPIECE.	COORDINATE SINK INSTALL WITH COUNTERTOP INSTALLER, COORDINATE W/ EC.
V	ELECTRIC WATER COOLER	OASIS #PG8FEBF: "VERSACOOLER", SINGLE DRINKING FOUNTAIN, REFRIGERATED, ELECTRONIC BOTTLE FILLER, FILTERED, PROVIDES 8.0 GPH OF CHILLED WATER, BUILT-IN 100 MICRON STRAINER, STAINLESS STEEL TOP AND HEAVY DUTY GALVANIZED STEEL FRAME, CONTACTLESS ACTIVATION BOTTLE FILLER WITH PROGRAMMABLE AUTO SHUT-OFF, MANUAL ACTIVATION ON FOUNTAIN, BUILT-IN FILTER MONITOR AND BOTTLE COUNTER, LED LIGHTED ALCOVE, VERSA FILTER III, 1/4 HP COMPRESSOR, 115 V/ 60 HZ/ 5.0 A/ 500 W. GERYSTONE POWDER COAT FINISH WITH CANE APRON.		MCGUIRE #LFBV2165CCSS12: LOOSE KEY QUARTER-TURN CHROME-PLATED BRASS VALVE, 1/2" X 3/8" COMPRESSION JOINTS W/ 12" SS FLEXIBLE CONNECTOR.	MCGUIRE #8902CBF:1-1/2"x1-1/4", 17 GAUGE CHROME PLATED CAST BRASS 'P' TRAP WITH CLEANOUT AND DEEP BOX FLANGE.	GREYSTONE POWDERCOATED CANE APRON.	COORDINATE POWER SUPPLY W/ EC. MUST BE ADA, NSF 61G AND ANSI 372 COMPLIANT.
W	SINGLE BOWL BAR SINK	ADVANCE TABCO #DI-1-5: ONE COMPARTMENT DROP IN SINK, ONE PIECE DEEP DRAWN 20 GAUGE 304 STAINLESS STEEL, 14" X 10" X 5" DEEP BOWL, SELF-RIM DESIGN, MOUNTING CLIPS, SOUND DEADENED BOWL, SMART FINISH, BOTTOM AND SIDE PADS, CENTER DRAIN PLACEMENT (3-1/2" DRAIN OPENINGS), K-52 BRASS-NICKEL PLATED FAUCET 2-HOLE 4" CENTERSET FAUCET OPENINGS, 1.0 GPM AERATOR AT 60 PSI, ASME A112.19.3	PROVIDED WITH SINK BOWL.	MCGUIRE #LFBV2165CCSS12: LOOSE KEY QUARTER-TURN CHROME-PLATED BRASS VALVE, 1/2" X 3/8" COMPRESSION JOINTS.	MCGUIRE #8912C: 1-1/2"X1-1/2", 17 GAUGE CHROME PLATED CAST BRASS 'P' TRAP WITH CLEAN OUT AND DEEP BOX FLANGE.	MCGUIRE #151AM: SS BASKET STRAINER, 1-1/2" BY 4" TAILPIECE.	COORDINATE SINK INSTALL WITH COUNTERTOP INSTALLER.
X	LAVATORY "MEN'S LOCKER ROOM"	SOPHSTONE #SOPH-ST: "SLANT" COMPOSITE STONE WITH HONED FINISH, TWO DRAINS, CUSTOM DIMENSIONS 11'-0" WIDE X 2'-1" DEEP, WITH PLUMBING ENCLOSURE	ZURN #6955-XL-S-W1-F: "AQUA-FIT" SERIO CHROME PLATED CAST BRASS 4" CENTERSET BODY, BATTERY POWERED INFRA-RED SENSOR ACTIVATION, 0.5 GPM NON-AERATED OUTLET, INLINE FILTERS, LESS POP-UP DRAIN (ROD AND HOLE); NSF-61G, ANSI 372, AND ADA COMPLIANT.	MCGUIRE #LFBV2165CCSS12: LOOSE KEY QUARTER-TURN CHROME-PLATED BRASS VALVE, 1/2" X 3/8" COMPRESSION JOINTS W/ 12" SS FLEXIBLE CONNECTOR.	MCGUIRE #8902CBF:1-1/2"x1-1/4", 17 GAUGE CHROME PLATED CAST BRASS 'P' TRAP WITH CLEANOUT AND DEEP BOX FLANGE ESCUTCHEON.	MCGUIRE #155A; 1-1/4" CHROME-PLATED BRASS GRID STRAINER AND TAILPIECE. ASSE 1070 TEMPERATURE LIMITING DEVICE (SEE ITEM 'I').	MEET ASSE 1070 REQUIREMENTS. COMPLY WITH NSF-61G AND ANSI 372 STANDARDS. MEET ADA AS REQUIRED.

STATE OF OHIO
DREW A ROBINSON
PE-89438
REGISTERED PROFESSIONAL ENGINEER

#916 Brooksedge Blvd. STE 240
Dublin, OH 43017
t 614.267.5577
f 614.267.5617
www.tecinceng.com
engineering | surveying
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'VD.	DATE

PLUMBING FIXTURE SCHEDULES

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.
P-400

PROJ NO.: 130012-59

DATE: 06/25/2025

1/16" = 1'-0" 0 4" 8" 16'

1/8" = 1'-0" 0 2' 4' 8'

3/16" = 1'-0" 0 2' 4' 8'

1/4" = 1'-0" 0 1' 2' 4'

3/8" = 1'-0" 0 1' 2' 4'

1/2" = 1'-0" 0 6" 1' 2'

3/4" = 1'-0" 0 3" 6" 1' 2'

1" = 1'-0" 0 3" 6" 1' 2'

1 1/2" = 1'-0" 0 3" 6" 1'

3" = 1'-0" 0 1" 2" 3" 6" 1'

6" = 1'-0" 0 1" 2" 3" 6"

HVAC SYMBOLS & ABBREVIATIONS

ACCU	AIR COOLED CONDENSING UNIT
A.F.F.	ABOVE FINISHED FLOOR
BTUH	BRITISH THERMAL UNIT PER HOUR
CAP.G.	CAPACITY
CLG	CEILING
D	CONDENSATE DRAIN
CFD	CEILING FIRE DAMPER
CFM	CUBIC FEET PER MINUTE
DIA.	DIAMETER
D-	DIFFUSER
G-	GRILLE
DIA.	DIAMETER
EA.	EACH
EFF.	EFFICIENCY
ELECT.	ELECTRIC
EAT	ENTERING AIR TEMP
EDB	ENTERING DRY BULB
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMP.
EXH	EXHAUST
E.A.	EXHAUST AIR
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE
FD	FLOOR DRAIN
FLEX.	FLEXIBLE
FMS	FACILITY MANAGEMENT SYSTEM
G	GRILLE
GA.	GAUGE
G.C	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
HVAC	HEATING, VENTILATIN & AIR CONDITIONING
HHWR	HOT WATER RETURN
HHWS	HOT WATER SUPPLY
KEC	KITCHEN EQUIPMENT CONTRACTOR
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LOUV	LOUVER
LTW	LEAVING WATER TEMPERATURE
MBH	THOUSAND BTUH
MCA	MINIMUM CIRCUIT AMPACITY
MFR	MANUFACTURER
MIN.	MINIMUM
M.O.D.	MOTOR OPERATED DAMPER
MOP	MAXIMUM OVER-CURRENT PROTECTION
N.T.S.	NOT TO SCALE
O.A.	OUTSIDE AIR
P.C.	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PG	PRESSURE GAUGE
PH.	PHASE
PSI	POUNDS PER SQUARE INCH
PSIG	PSI GAUGE
R	REGISTER
R.A.	RETURN AIR
REL.A.	RELIEF AIR
RLA	RUNNING LOAD AMPS
RM	ROOM
S.A.	SUPPLY AIR
SHT	SHEET
SP	STATIC PRESSURE
TC	TEMPERATURE CONTROL CONTRACTOR
TCP	TEMPERATURE CONTROL PANEL
TSP	TOTAL STATIC PRESSURE
TYP.B.	TYPICAL
UH	UNIT HEATER
USAN	UNDERGROUND SANITARY
V.D	VOLUME DAMPER
VRV	VARIABLE REFRIGERANT VOLUME
WFD	WALL FIRE DAMPER

	CHECK VALVE
	BALL VALVE
	GATE VALVE
	COMBINATION BALANCE/SHUT OFF VALVE
	2 WAY CONTROL VALVE
	DRAIN VALVE W/HOSE FITTING
	STRAINER W/GATE VALVE BLOWOFF
	CONCENTRIC REDUCER
	UNION
	SENSOR OR THERMOMETER WELL
	STRAIGHT THERMOMETER
	TEE (TURNING DOWN)
	TEE (TURNING UP)
	BRANCH OFF-TOP
	90° ELBOW (TURNING UP)
	90° ELBOW (TURNING DOWN)
	CONNECTION TO EXISTING
	LIMIT OF DEMOLITION
	FLOOR DRAIN
T	THERMOSTAT / TEMPERATURE SENSOR
T E	ELECTRIC THERMOSTAT
	AUTOMATIC OR MANUAL AIR VENT
	VOLUME DAMPER
	ROUND DUCT
	SUPPLY AIR DIFFUSER
	RETURN AIR GRILLE
	FLEXIBLE DUCT
	FLEXIBLE CONNECTION
	PRESSURE GAUGE w/VALVE
D1-8"-150	TERMINAL MARK-NECK SIZE- AIRFLOW (CFM)
G1-12/8-150	TERMINAL MARK- GRILLE SIZE- AIRFLOW (CFM)

HVAC PIPING LEGEND & NOTES

HWS	HOT WATER HEATING SUPPLY
HWR	HOT WATER HEATING RETURN
CWS	CHILLED WATER SUPPLY
CWR	CHILLED WATER RETURN
CD	COLD CONDENSATE DRAIN

GENERAL REQUIREMENTS:

1. CODES: INSTALL ALL WORK AND MATERIALS PER STATE, LOCAL, AND NATIONAL CODES. CONTRACTOR SHALL BEAR TOTAL RESPONSIBILITY OF INSTALLING THEIR WORK PER CODES AND REGULATIONS PER AUTHORITY HAVING JURISDICTION. EACH CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND FEES, AND FILE ALL DOCUMENTS AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

2. MATERIALS: FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND DETAILS TO FINISH THE WORK NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM. ALL MATERIAL SHALL BE NEW AND UNDETERIORATED AND INSTALLED IN A WORKMANLIKE MANNER, ACCEPTABLE TO THE OWNER, BY CRAFTSMAN SKILLED IN THE TRADE. WORK THAT IS UNACCEPTABLE TO THE OWNER OR INSPECTION AGENCIES SHALL BE CORRECTED AT NO ADDITIONAL COST.

3. LOCATIONS: THE DRAWINGS ARE SCHEMATIC IN NATURE AND EXACT LOCATIONS SHALL BE DETERMINED BY FIELD CONDITIONS. SOME MINOR RELOCATION MAY BE NECESSARY FOR PROPER ACCESS TO EQUIPMENT FOR MAINTENANCE, TO SOLVE CONFLICTS, ETC. AT NO ADDITIONAL COST.

4. MANUFACTURERS: ALL EQUIPMENT AND MATERIAL IS SPECIFIED TO BE BY BASIS-OF-DESIGN MANUFACTURER. THE CONTRACTOR MAY USE OTHER MANUFACTURERS LISTED IN THE SPECIFICATIONS IF THEIR PRODUCT HAS SIMILAR QUALITY, CONFIGURATION, PERFORMANCE, SOUND CHARACTERISTICS, APPLICATION RECOMMENDATION, SPACE REQUIREMENTS, ETC. IF ANOTHER MANUFACTURER IS CHOSEN, IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT THE ABOVE CRITERION IS MET.

5. CLEAN AND PAINT: CLEAN SYSTEMS AND EQUIPMENT BEFORE FINAL ACCEPTANCE BY OWNER. CLEAN RUST APPEARING ON FACTORY FINISHED EQUIPMENT AND REPAINT TO FACTORY FINISH. ALL HANGERS, STEEL SUPPORTS, AND CONTRACTOR SHALL PAINT ALL HANGERS, STEEL SUPPORTS, AND MISCELLANEOUS IRON WITH ONE PRIME COAT AND ONE FINISH COAT OF BLACK ENAMEL.

6. COMPLETION ITEMS: UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL TURN OVER TO THE OWNER THE FOLLOWING ITEMS:

   A. TWO COPIES OF THE OPERATING AND MAINTENANCE MANUALS, CONTAINING A DESCRIPTION OF EACH SYSTEM, A COPY OF EACH SHOP DRAWING AND OPERATING AND MAINTENANCE INSTRUCTIONS ON ALL ITEMS FURNISHED.

   B. A LETTER GUARANTEE AND ALL WARRANTIES.

   C. ALL BUILDING INSPECTION CERTIFICATES.

   D. "AS BUILT" DRAWINGS, NEATLY MARKED IN RED SHOWING ALL DEVIATIONS FROM THE PLANS.

7. SYSTEM START-UP: UPON COMPLETION, CONTRACTOR SHALL CLEAN, LUBRICATE, CHARGE, AND BALANCE ALL SYSTEMS AND PLACE IN OPERATION. ANY FILTERS SHALL BE REPLACED WITH MERV 13 FILTERS. STRAINERS, ETC. THAT ARE DIRTY SHALL BE REPLACED WITH NEW STRAINER SCREENS.

8. GUARANTEE: THE CONTRACTOR SHALL GUARANTEE THAT THE INSTALLATION IS FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP AND WILL PROMPTLY REPAIR OR REPLACE DEFECTS FOR ONE YEAR FROM DATE OF ACCEPTANCE BY THE OWNER. EXTENDED WARRANTY IS SPECIFIED IN EQUIPMENT SPECIFICATIONS.

9. MANUFACTURER'S INSTRUCTIONS: INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS. IF MANUFACTURER'S INSTRUCTIONS CONFLICT WITH THE DRAWINGS OR APPLICABLE BUILDING CODES, THE CONTRACTOR SHALL BRING SUCH CONFLICTS TO THE ATTENTION OF THE OWNER WHO SHALL DETERMINE WHICH REQUIREMENTS APPLY.

10. BEFORE THE NEW SPACE CONDITIONING SYSTEMS ARE OPERATED FOR NORMAL USE, BALANCE EACH SYSTEM IN ACCORDANCE WITH PROCEDURES DEFINED BY THE ASSOCIATED AIR BALANCE COUNCIL (AACB) NATIONAL STANDARDS.

11. FOLLOWING COMPLETION OF THE TESTING AND ADJUSTING AND BALANCING, SUBMIT TO THE DESIGN PROFESSIONAL A FINAL REPORT OF THE TESTING, SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THOSE SERVICES.

GENERAL NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF THERMOSTATS, DIFFUSERS, AND OTHER SIMILAR ITEMS.

2. FOR CLARITY ON DRAWINGS, ALL PIPING ACCESSORIES FOR CHILLED AND HOT WATER SYSTEMS ARE LOCATED IN DETAILS.

3. PROVIDE SHUT-OFF VALVES ON ALL PIPE BRANCHES FROM MAIN.

4. PROVIDE VOLUME DAMPERS ON ALL BRANCH DUCTWORK.

5. CEILING SPACE IS VERY LIMITED. COORDINATE ALL PIPE AND DUCT ROUTING, ABOVE CEILING, WITH ALL OTHER TRADES.

6. MAKE ALL FINAL PIPING CONNECTIONS COMPLETE TO ALL MECHANICAL EQUIPMENT.

7. MAINTAIN MANUFACTURER'S REQUIRED CLEARANCES FOR MAINTENANCE FOR ALL MECHANICAL EQUIPMENT.

8. ALL TEMPERATURE CONTROLLERS/SENSORS TO BE MOUNTED 54" AFF.

9. THE WORK IS TO BE DONE IN TWO PHASES. PHASE 1 IS ALL SECOND FLOOR WORK. PHASE 2 IS ALL FIRST FLOOR WORK. CONTRACTOR SHALL SCHEDULE INSTALLATION TO MINIMIZE WORK IN "OUT-OF-PHASE" AREAS.

STATE OF OHIO
DREW A. ROBINSON
PE-89438
REGISTERED PROFESSIONAL ENGINEER

tec inc. engineering & management
#916 Brodenton Ave. STE 240
Dublin, OH 43017
t 614.267.5577
f 614.267.5617
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP/D.	DATE

HVAC GENERAL NOTES, SYMBOLS, & ABBREVIATIONS

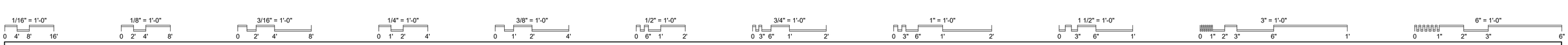
Eastern Regional Water Reclamation Facility Operations Building Renovation

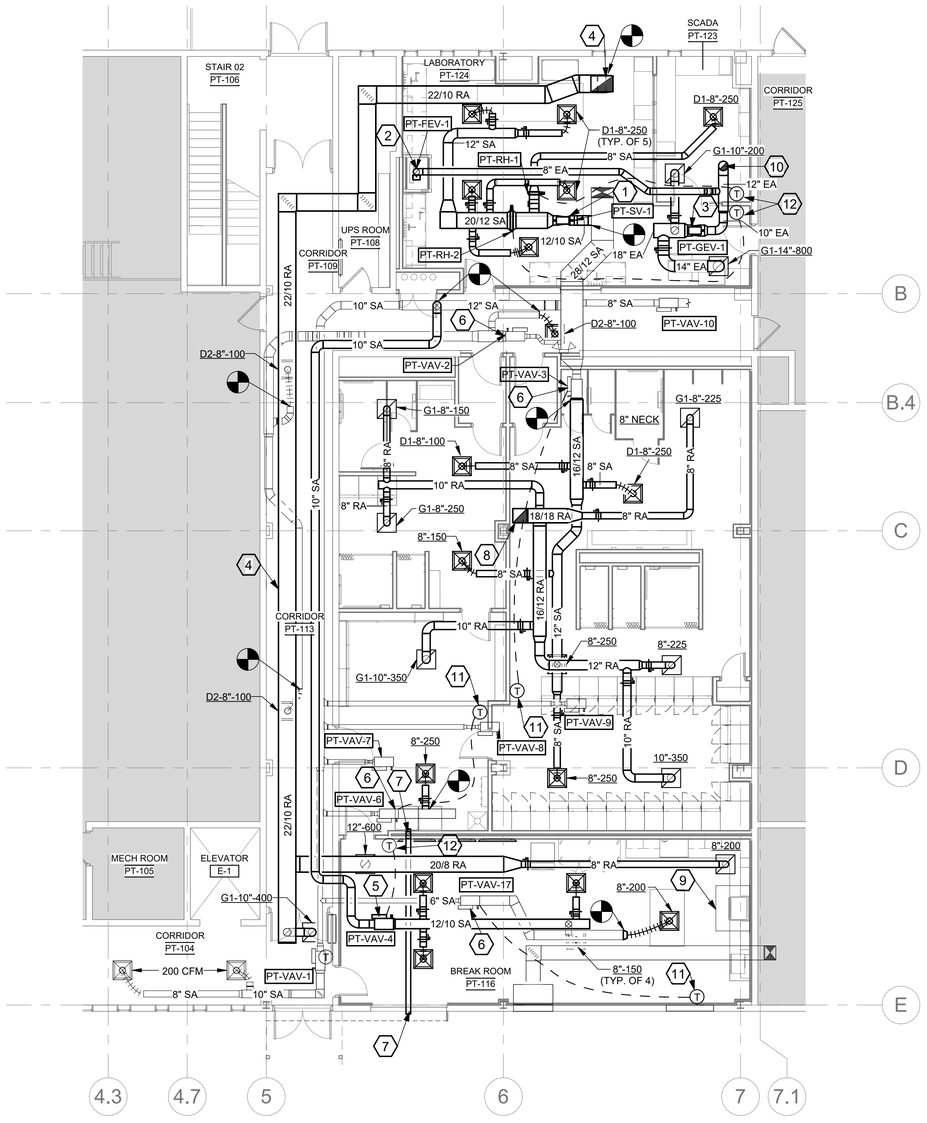
SHEET NO.

M-001

PROJ NO.: 130012-59

DATE: 06/25/2025





1 HVAC FIRST FLOOR NEW WORK PLAN

1/8" = 1'-0"

GENERAL NOTES:

A. MAJORITY OF EXISTING DIFFUSERS/GRILLES TO BE PRESERVED AND RE-INSTALLED IN NEW CEILING GRIDS. REBALANCE EXISTING DIFFUSERS/GRILLES TO NEW AIRFLOW NOTED ON DRAWING. NEW DIFFUSERS/GRILLES ARE LABELED WITH IDENTIFICATION TAG (E.G., "D-1', 'G-1). EXISTING DEVICES FOR REUSE ARE NOT LABELED.

B. PROVIDE EXISTING RETURN GRILLES BEING REINSTALLED WITH NEW DUCT BOOTS FOR DUCTED CONNECTION.

PLAN NOTES:

1. PROVIDE LAB SUPPLY AIR VALVE PT-SV-1, WITH (2) HOT WATER REHEAT COILS, PT-RH-1 & 2, AND INSTALL PER MANUFACTURER'S INSTRUCTIONS. PROVIDE ALL REQUIRED CONTROLS, EQUIPMENT, AND PIPING FOR A COMPLETE INSTALLATION AND OPERATION OF UNIT. PROVIDE HOT WATER REHEAT COILS PT-RH-1 & 2, AND NECESSARY DUCT TRANSITIONS TO AND FROM COILS. PROVIDE TEMPERATURE SENSORS ON INLET OF VALVE AND OUTLET OF EACH REHEAT COIL AND CONNECT INTO EXISTING DDC SYSTEM FOR MONITORING. SEE SHEET M-201 FOR MORE INFORMATION ON PIPING. MAINTAIN MANUFACTURER'S REQUIRED CLEARANCES FOR SERVICE OF UNIT.

2. PROVIDE FUME HOOD EXHAUST AIR VALVE PT-FEV-1, FOR ASSOCIATED FUME HOOD SHOWN AND INSTALL PER MANUFACTURER'S INSTRUCTIONS. PROVIDE ALL REQUIRED CONTROLS AND EQUIPMENT FOR A COMPLETE INSTALLATION AND OPERATION OF UNIT. MAINTAIN MANUFACTURER'S REQUIRED CLEARANCES FOR SERVICE OF UNIT. MOUNT EXHAUST VALVE IN VERTICAL POSITION ABOVE FUME HOOD WITH VALVE CONTROLS EXPOSED FOR PROPER ACCESS. DUCTWORK TO BE CPVC.

3. PROVIDE GENERAL EXHAUST AIR VALVE PT-GEV-1, AND INSTALL PER MANUFACTURER'S INSTRUCTIONS. PROVIDE ALL REQUIRED CONTROLS AND EQUIPMENT FOR A COMPLETE INSTALLATION AND OPERATION OF UNIT. MAINTAIN MANUFACTURER'S REQUIRED CLEARANCES FOR SERVICE OF UNIT. DUCTWORK TO BE CPVC.

4. PROVIDE NEW 22"X10" RETURN DUCTWORK AND CONNECT INTO EXISTING RETURN OPENING FROM AIR HANDLING UNIT PT-AHU-1 AT FLOOR SLAB ABOVE COMPLETE WITH PROPER DUCT TRANSITIONS. FIELD ROUTE NEW DUCTWORK ABOVE CEILING TO NEW BREAK ROOM AREA. COORDINATE ROUTING WITH ALL TRADES AND EXISTING CONDITIONS.

5. INSTALL RELOCATED EXISTING VAV BOX PT-VAV-4 AT THIS LOCATION. PROVIDE ALL REQUIRED CONTROLS, EQUIPMENT, AND PIPING FOR A COMPLETE INSTALLATION AND OPERATION OF UNIT. PROVIDE ASSOCIATED WIRED TEMPERATURE SENSOR FOR UNIT SHOWN ON PLANS AND MOUNT 54" AFF. MAINTAIN MANUFACTURER'S REQUIRED CLEARANCES AROUND UNIT. SEE SHEET M-201 FOR MORE INFORMATION ON PIPING.

6. EXISTING VAV BOX TO BE REBALANCED TO MEET CFM SHOWN ON SCHEDULE.

7. PROVIDE A NEW 4" DIA. DRYER VENT AND RUN FLEXIBLE DUCT FROM THE DRYER UP TO THE CEILING AND CONNECT TO THE HARD DUCT CONNECTION AT CEILING LEVEL. FIELD ROUTE 4" DIA. DRYER EXHAUST DUCT ABOVE THE CEILING TO THE EXTERIOR WALL AS SHOWN. INSTALL A DRYER VENT WALL TERMINATION CAP WITH AN INTEGRAL BACKDRAFT DAMPER. MAINTAIN A MINIMUM OF 10 FEET AWAY FROM ANY INTAKE LOUVERS.

8. ROUTE 18"X18" EXHAUST DUCTWORK UP THROUGH EXISTING OPENING IN FLOOR SLAB INTO MECHANICAL ROOM ABOVE. SEE SHEET H-202 FOR CONTINUATION OF DUCTWORK.

9. PROVIDE NEW CANOPY STYLE VENTLESS RANGE HOOD FOR NEW ELECTRIC RANGE. VENTLESS RANGE HOOD TO BE SIMILAR TO DENLAR MODEL D1030-F; 30" WIDE; 120V/1PH; 1.38 AMPS; MEETS UL-507, UL-300A, AND NSF CERTIFIED; INTEGRAL PRE-ENGINEERED FIRE SUPPRESSION SYSTEM AND INTEGRAL SHUT-OFF TO COOKING APPLIANCE; FRONT DISCHARGE RECIRCULATING HOOD; TOP COVER. PROVIDE FACTORY-FURNISHED ELECTRICAL DISCONNECT (WITH NEMA 10-50R OR 14-50R RECEPTACLE AND SHUNT-TRIP) FOR ELECTRIC RANGE TO ALLOW SHUT-OFF IN THE EVENT OF A FIRE. COORDINATE EXACT RECEPTACLE TYPE AND CONFIGURATION WITH ELECTRICAL CONTRACTOR AND SELECTED RANGE.

10. ROUTE NEW 12" DIA. LAB GENERAL EXHAUST DUCTWORK THROUGH EXISTING FLOOR OPENING UP TO MECHANICAL ROOM ABOVE. SEE SHEET M-202 FOR CONTINUATION OF DUCTWORK.

11. INSTALL RELOCATED THERMOSTAT IN NEW LOCATION SHOWN AND CONNECT INTO ASSOCIATED VAV BOX. MOUNT THERMOSTAT 54" AFF.

12. PROVIDE NEW THERMOSTAT AND MOUNT 54" AFF. CONNECT INTO ASSOCIATED VAV BOX/REHEAT COIL SHOWN.

STATE OF OHIO
DREW A ROBINSON
PE-89458
PROFESSIONAL ENGINEER

tec inc.
engineering & consulting
#976 Brodonton Ave, STE 240
Dublin, OH 43017
t 614.326.5670
f 614.267.5617
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

No.	DATE	DESCRIPTION	APP'D.	DATE
		SUBMITTAL/REVISION RECORD		

HVAC FIRST FLOOR NEW WORK PLAN

Eastern Regional Water Reclamation Facility Operations Building Renovation

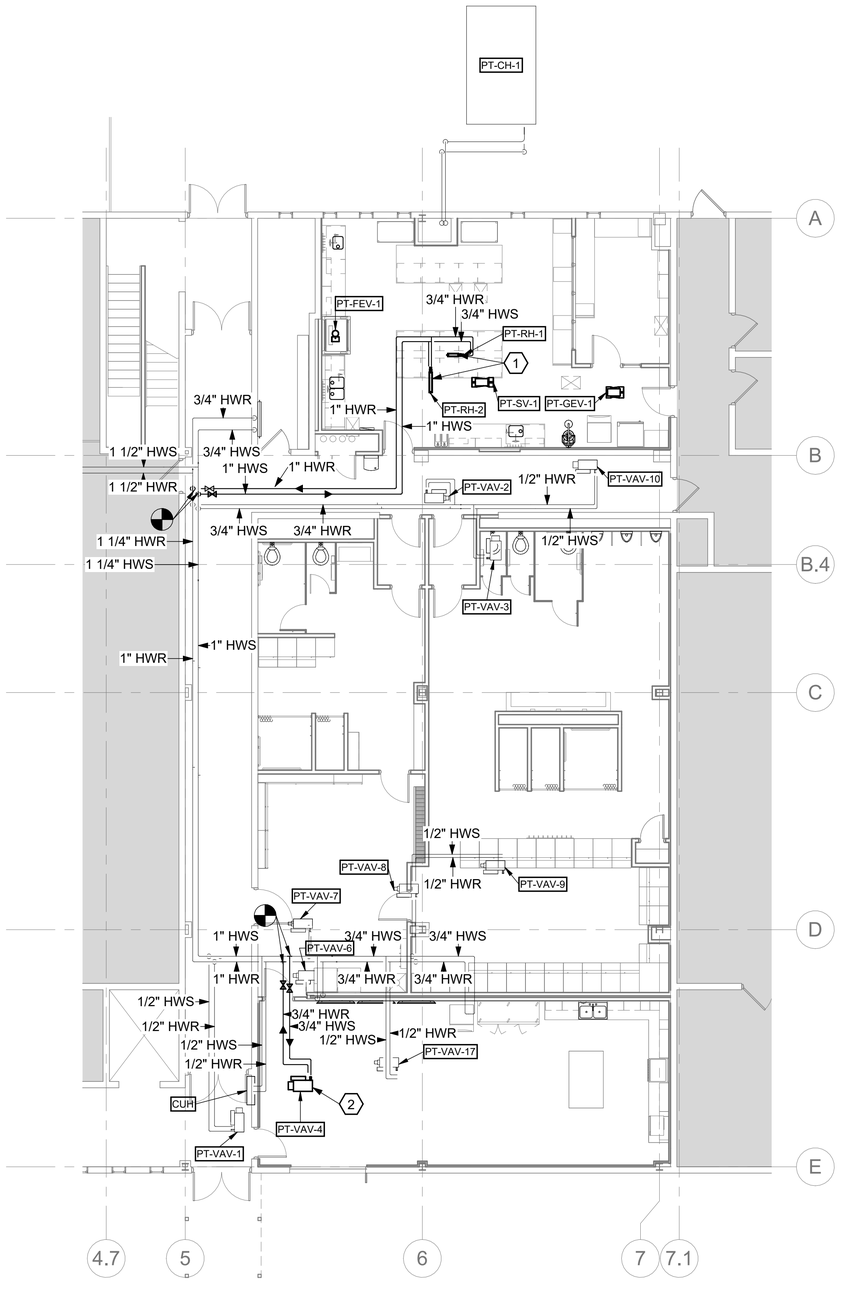
SHEET NO.

M-200

PROJ NO.: 130012-59

DATE: 06/25/2025

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



1 HVAC PIPING FIRST FLOOR NEW WORK PLAN

1/8" = 1'-0"

N

GENERAL NOTES

A. NO WORK IN SHADED AREA'S UNLESS NOTED OTHERWISE.

B. FOR CLARITY ON DRAWINGS, ALL PIPING EQUIPMENT FOR REHEAT COILS ARE FOUND ON SHEET M-301.

C. BALANCE ALL NEW AND EXISTING REHEAT COILS TO GPM SHOWN ON SCHEDULES.

PLAN NOTES

1. PROVIDE HOT WATER REHEAT COIL AND INSTALL IN DUCTWORK PER MANUFACTURER'S INSTRUCTIONS WITH PROPER DUCT TRANSITIONS. PROVIDE ALL REQUIRED CONTROLS, EQUIPMENT, AND PIPING FOR A COMPLETE INSTALL AND OPERATION OF UNIT. PROVIDE ALL REQUIRED VALVES AND PIPING EQUIPMENT FOR REHEAT COIL AND MAKE ALL FINAL PIPING CONNECTIONS COMPLETE. SEE DETAIL 9 ON SHEET M-301 FOR MORE INFORMATION ON COIL PIPING EQUIPMENT.

2. REINSTALL RELOCATED VAV BOX PT-VAV-4 WITH HOT WATER REHEAT COIL PER MANUFACTURER'S INSTRUCTIONS. INSTALL ALL REQUIRED CONTROLS, PIPING, EQUIPMENT, AND VALVES FOR A COMPLETE INSTALL AND OPERATION OF UNIT. MAKE ALL FINAL PIPING CONNECTION TO COIL COMPLETE. SEE DETAIL 9 ON SHEET M-301 FOR MORE INFORMATION ON COIL PIPING EQUIPMENT.

STATE OF OHIO
DREW A. ROBINSON
PE-89418
REGISTERED PROFESSIONAL ENGINEER

tec inc.
engineering & architecture
#916 Brandenton Ave, STE 240
Dublin, OH 43017
t 614.267.4777
f 614.267.5617
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

No.	DATE	DESCRIPTION	APP'VD.	DATE:

SUBMITTAL/REVISION RECORD

HVAC FIRST FLOOR PIPING NEW WORK PLAN

Eastern Regional Water Reclamation Facility Operations Building Renovation

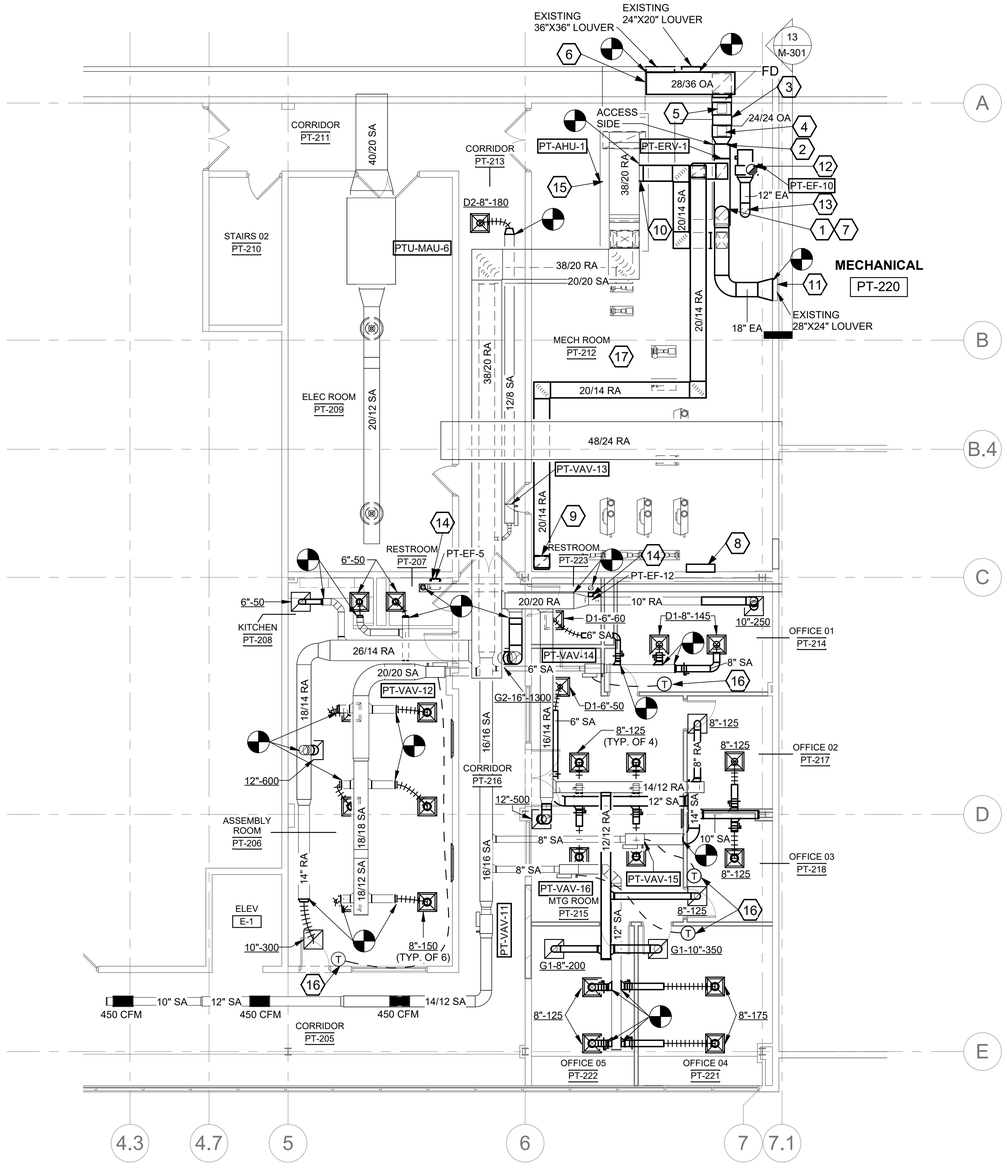
SHEET NO.

M-201

PROJ NO.: 130012-59

DATE: 06/25/2025

1/16" = 1'-0" | 1/8" = 1'-0" | 3/16" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"



1 HVAC SECOND FLOOR NEW WORK PLAN

1/8" = 1'-0"

GENERAL NOTES:

A. MAJORITY OF EXISTING DIFFUSERS/GRILLES TO BE PRESERVED AND RE-INSTALLED IN NEW CEILING GRIDS. REBALANCE EXISTING DIFFUSERS/GRILLES TO NEW AIRFLOW NOTED ON DRAWING. NEW DIFFUSERS/GRILLES ARE LABELED WITH IDENTIFICATION TAG (E.G., "D-1', 'G-1). EXISTING DEVICES FOR REUSE ARE NOT LABELED.

PLAN NOTES

1. PROVIDE ERV UNIT PT-ERV-1, FOR ADDITIONAL MAKE-UP AIR FOR EXISTING AIR HANDLING UNIT PT-AHU-1 AND MOUNT ON NEW CONCRETE 4" HIGH HOUSEKEEPING PAD EXTENDED FROM EXISTING PAD WITH FACTORY SUPPLIED SUPPORT RAILS. EXTEND NEW PAD 3" BEYOND UNIT IN ALL DIRECTIONS. SEE STRUCTURAL PLANS FOR MORE INFORMATION ON EXTENDING EXISTING PAD. MAINTAIN MANUFACTURERS REQUIRED CLEARANCES FOR SERVICE SPACE ON ACCESS SIDE SHOWN ON SHEET. PROVIDE ALL REQUIRED DUCT TRANSITIONS ON DUCT CONNECTIONS AT UNIT TO MAKE A COMPLETE INSTALL.
2. PROVIDE ELECTRIC PRE-HEAT COIL FOR NEW ERV UNIT AND MOUNT ON OUTSIDE AIR INLET CONNECTION AT UNIT PER MANUFACTURER'S INSTRUCTIONS. PROVIDE ALL NECESSARY DUCT TRANSITIONS TO MAKE A COMPLETE CONNECTION TO COIL.
3. PROVIDE INSULATED FILTER HOUSING SIMILAR TO CAMFIL MODEL FARR 30/30, GLIDEPACK MT-13. FILTER COMINATION TO BE 24"X24"X2" MERV 8 FILTER AND 4" MERV 13 FILTER AT HOUSING. PROVIDE NECESSARY DUCT TRANSITIONS TO MAKE A COMPLETE CONNECTION TO FILTER HOUSING. MAINTAIN MANUFACTURER'S REQUIRED CLEARANCES FOR FILTER ACCESS.
4. PROVIDE 12"X12" DUCT ACCESS DOOR FOR CLEANING OF ELECTRIC PRE-HEAT COIL BETWEEN COIL AND FILTER HOUSING.
5. PROVIDE 12"X12" ACCESS DOOR FOR FIRE DAMPER ACCESS ON EXTERIOR WALL.
6. PROVIDE NEW OUTSIDE AIR PLENUM IN WALL CAVITY AND CONNECT NEW 28"WX36"H BY APPROXIMATELY 9'-6" LONG PLENUM INTO EXISTING (2) INTAKE LOUVERS ON THE EXTERIOR OF THE BUILDING. EXISTING LOUVERS ARE SIZED 36"X36" AND 24"X20". PROVIDE ALL REQUIRED DUCT TRANSITIONS AND SUPPORTS TO MAKE A COMPLETE INSTALL TO THE LOUVERS. CONNECT NEW 24"X24" OUTSIDE AIR DUCTWORK AT BOTTOM OF PLEUNUM AND ROUTE THROUGH WALL WITH FIRE DAMPER TO NEW ERV UNIT AS SHOWN. SEE SECTION FOR MORE INFORMATION.
7. ERV UNIT MANUFACTURER TO PROVIDE ALL CONTROL DAMPERS FOR OUTSIDE AIR INTAKE AND EXHAUST CONTROL. DAMPERS TO BE INTEGRAL TO THE UNIT AND CONTROLLED BY UNIT MANUFACTURER. TCC TO PROVIDE 24V CONTROL ACTUATORS FOR DAMPERS AND WIRE INTO UNIT CONTROLLER.
8. PHASE 1 WORK: PROVIDE NEW TEMPERATURE CONTROL PANEL AND MOUNT ON WALL PER MANUFACTURER'S INSTRUCTIONS. MAINTAIN CODE REQUIRED 3'-0" CLEAR INFRONT OF PANEL FOR SERVICE SPACE.
9. NEW EXHAUST DUCTWORK UP FROM LOCKER ROOMS BELOW. FIELD ROUTE DUCTWORK TO NEW ERV UNIT COMPLETE AND MAKE ALL FINAL CONNECTIONS TO UNIT COMPLETE WITH PROPER DUCT TRANSITIONS.
10. CONNECT 20"X14" SUPPLY AIR FROM ERV UNIT TO EXISTING 38"X 20" RETURN DUCTWORK FOR AIR HANDLING UNIT PT-AHU-1 AND MAKE ALL FINAL CONNECTIONS COMPLETE.
11. ROUTE NEW EXHAUST DUCTWORK FROM ERV UNIT UP TO EXISTING 28"X24" LOUVER LOCATED IN EXTERIOR WALL. MAKE ALL FINAL CONNECTIONS TO EXISTING LOUVER COMPLETE WITH PROPER DUCT TRANSITIONS.
12. PROVIDE UTILITY STYLE LAB EXHAUST FAN PT-EF-10, AND HANG FROM ROOF DECK WITH NEW UNISTRUT SUPPORTS WITH SPRING ISOLATORS PER MANUFACTURER'S INSTRUCTIONS. PROVIDE FLEX CONNECTIONS AT INLET AND OUTLET OF FAN. ROUTE 10" DIA. DISCHARGE EXHAUST DUCT UP THROUGH EXISTING ROOF CURB AND TERMINATE A MINIMUM OF 5'-0" ABOVE ROOF DECK WITH NO-LOSS STACK DUCT. PROVIDE GUY WIRES FOR SUPPORT ABOVE ROOF. REFER TO STRUCTURAL PLANS FOR MORE INFORMATION. SEAL EXISTING ROOF CURB WEATHER TIGHT. DUCTWORK TO BE CPVC.
13. ROUTE 12" DIA LAB EXHAUST DUCTWORK UP THROUGH EXISTING PENETRATION FROM FLOOR BELOW AND CONNECT INTO EXHAUST FAN PT-EF-10 HANGING FROM ROOF COMPLETE WITH PROPER DUCT TRANSITIONS.
14. PROVIDE NEW CEILING EXHAUST FAN FOR RESTROOM AND CONNECT TO EXISTING EXHAUST DUCTWORK ABOVE COMPLETE. EXHAUST FAN TO RUN ON LIGHT SWITCH.
15. CONTRACTOR TO REBALANCE AIR HANDLING UNIT PT-AHU-1 CFM TO 8500 CFM TO ACCOMODATE NEW AIRFLOWS. TOTAL MINIMUM OUTSIDE AIR TO PT-AHU-1 SHALL BE 3500 CFM (1550 CFM FROM ERV-1 AND 1950 CFM FROM OUTSIDE AIR LOUVER) TO OFFSET LABORATORY, RESTROOM, AND LOCKER ROOM EXHAUST.
16. INSTALL RELOCATED THERMOSTAT IN NEW LOCATION SHOWN AND CONNECT INTO ASSOCIATED VAV BOX. MOUNT THERMOSTAT 54" AFF.
17. ALL WORK IN MECHANICAL ROOM PT-212 TO BE IN PHASE 2 UNLESS NOTED OTHERWISE.

STATE OF OHIO
DREW A. ROBINSON
PE-89438
REGISTERED PROFESSIONAL ENGINEER

tec inc.
engineering & management
#916 Brodenton Ave, STE 240
Dublin, OH 43017
t 614.267.5577
f 614.267.5617
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

No.	DATE	DESCRIPTION	APP'D:	DATE:
		SUBMITTAL/REVISION RECORD		

HVAC SECOND FLOOR NEW WORK PLAN

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.
M-202

PROJ NO.: 130012-59
DATE: 06/25/2025

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"

ERV UNIT SCHEDULE

MARK	MFR	MODEL	MAIN UNIT															COIL										REMARKS/ OPTIONS
			SUPPLY FAN						EXHAUST FAN					ELECTRIC				ELECTRIC PRE-HEAT COIL										
			MODEL	CFM	E.S.P.	RPM	POWER INPUT (KW)	FLA	MODEL	CFM	E.S.P.	RPM	POWER INPUT (KW)	FLA	FLA	MCA	MOCP	VOLTAGE	CONTROLS	STD. COIL	OA CFM	E.A.T DB °F	L.A.T DB °F	REQUIRED KW	MAX KW	FLA	MCA	MOCP	VOLTAGE	
PT-ERV-1	OXYGEN8	C20IN	GR31C-ZID.DC.CR	1550	1.5	2301	0.67	6	GR31C-ZID.DC.CR	1550	0.75	2491	0.84	6	12.33	13.50	15	208/3	SCR	5	1550	0	4	2.16	3	8.34	10.43	15	280/3	1-2

REMARKS:
1. ERV MODEL WITH ECM FAN MOTORS
2. OA INTAKE FILTER: 2" 85% MERV-13; RA FILTER: 2" 30% MERV-8 FILTERS

ERV UNIT ENERGY RECOVERY SECTION SCHEDULE

MARK	MFR	MODEL	CFM		SUMMER SUPPLY CONDITIONS					SUMMER EXHAUST CONDITIONS						WINTER SUPPLY CONDITIONS						WINTER EXHAUST CONDITIONS						ENERGY RECOVERED RATIO		REMARKS/ OPTIONS
			INTAKE	EXHAUST	EDB °F	EWB °F	ENTERING RH	LDB °F	LWB °F	LEAVING RH	EDB °F	EWB °F	ENTERING RH	LDB °F	LWB °F	LEAVING RH	EDB °F	EWB °F	ENTERING RH	LDB °F	LWB °F	LEAVING RH	EDB °F	EWB °F	ENTERING RH	LDB °F	LWB °F	LEAVING RH	SUMMER	WINTER	
PT-ERV-1	OXYGEN8	C20IN	1550	1550	95	75	40.3%	84.1	68.4	52.3%	75	63	51.2%	88.6	70.4	41.1%	4	2.3	55.2%	48.9	38.4	35.9%	70	52.9	30%	25.1	25	98.9%	58.23%	63.57%	1-4

REMARKS:
1. AIR TO AIR PLATE AND FRAME HEAT EXCHANGER CORE.
2. FULL EXCHANGER WITH MODULATING BYPASS DAMPERS
3. SUMMER SENSIBLE EFFECTIVENESS: 68.0%; TOTAL: 58.1%
4. WINTER SENSIBLE EFFECTIVENESS: 68.0%; TOTAL: 63.7%
5. SUMMER LATENT EFFECTIVENESS: 48.8%; TOTAL: 58.1%
6. WINTER LATENT EFFECTIVENESS: 48.8%; TOTAL: 63.7%

AIR VALVE SCHEDULES

MARK	MFR	MODEL	BOX SIZE	SERVICE	MAX. CFM	MIN. CFM	MIN. INLET SP	VALVE BODIES		CONST. CLASS	HOT WATER REHEAT COIL												REMARKS
								NO.	SIZE		MARK	MFR	MODEL	TYPE	CFM	MBH	HWS TEMP. °F	HWR TEMP. °F	LAT	ROWS	GPM	
PT-SV-1	ANTEC	VFX	-	LABORATORY	1500	1500	0.6" - 1"	1	12"Ø	A	PT-RH-1	DAIKIN	5BB	REHEAT	250	8.3	180	160	85	1	0.85	1-4, 7
											PT-RH-2	DAIKIN	5BB	REHEAT	1250	40.5	180	160	85	1	4.1	1-4, 8
PT-FEV-1	ANTEC	VFX	-	FUME HOOD	600	600	0.6" - 1"	1	8"Ø	B	-		-	-	-	-	-	-	-	-	-	1-6
PT-GEV-1	ANTEC	VFX	-	GENERAL EXHAUST	1000	1000	0.6" - 1"	1	10"Ø	A	-		-	-	-	-	-	-	-	-	-	1-4

REMARKS:
1. E.A.T. = 55°F
2. MEDIUM PRESSURE VALVE (0.6" TO 3").
3. PROVIDE SOUND NEUTRALIZER FOR ALL SUPPLY AND GENERAL EXHAUST VALVES.
4. PROVIDE CONTROL TRANSFORMER
5. PROVIDE HOOD ALARM.
6. PHENOLIC COATING
7. NOMINAL REHEAT COIL FIN SIZE (L x W): 12" WIDE X 6" HIGH
8. NOMINAL REHEAT COIL FIN SIZE (L X W): 24" WIDE X 12" HIGH

EXISTING VARIABLE AIR VOLUME BOXES

MARK	MFR	MODEL	SERVICE	BOX SIZE	COOLING CFM			MIN. INLET SP	HEATING COIL							REMARKS
					MAX. CFM	MIN. CFM	EAT °F		CFM	TOTAL MBH	EWT °F	LWT °F	ROWS	GPM	ΔP FT. H_2O	
PT-VAV-1	PRICE	SDV5	CORRIDOR	8	380	160	55	1"	160	9	190	170	1	0.65	1.1	1, 2
PT-VAV-2	PRICE	SDV5	CORRIDOR	5	300	65	55	1"	65	4.1	190	170	1	0.5	0.2	1, 2
PT-VAV-3	PRICE	SDV5	LOCKER ROOM AREA PT-154, PT-155	10	1080	1080	55	1"	900	30.43	190	170	1	2.19	12.73	1, 2
PT-VAV-4	PRICE	SDV5	BREAK ROOM SEATING	10	600	180	55	1"	300	11.5	190	170	1	1.19	1.25	1, 2
PT-VAV-5	NOT USED															
PT-VAV-6	PRICE	SDV5	LAUNDRY/JANITORS	5	250	100	55	1"	60	4.85	190	170	1	0.5	0.52	1, 2
PT-VAV-7	NOT USED															
PT-VAV-8	NOT USED															
PT-VAV-9	NOT USED															
PT-VAV-10	PRICE	SDV5	CORRIDOR	4	150	100	55	1"	100	6.01	190	170	1	0.5	0.52	1, 2
PT-VAV-11	PRICE	SDV5	CORRIDOR	14	1305	555	55	1"	555	25.86	190	170	1	1.85	1.97	1, 2
PT-VAV-12	PRICE	SDV5	ASSEMBLY PT-206	10	1000	195	55	1"	195	12.95	190	170	1	0.93	2.84	1, 2
PT-VAV-13	PRICE	SDV5	CORRIDOR	4	150	75	55	1"	75	5.34	190	170	1	0.5	0.52	1, 2
PT-VAV-14	PRICE	SDV5	OFFICE PT-214, RESTROOM	6	350	60	55	1"	80	5.49	190	170	1	0.5	5.49	1, 2
PT-VAV-15	PRICE	SDV5	MEETING, OFFICE PT-217, OFFICE PT-218	10	800	590	55	1"	590	23.77	190	170	1	1.71	8.23	1, 2
PT-VAV-16	PRICE	SDV5	OFFICE PT-221, PT-222	8	600	600	55	1"	590	18.71	190	170	1	1.35	3.94	1, 2
PT-VAV-17	PRICE	SDV5	BREAK ROOM KITCHEN	4	200	200	55	1"	100	5.34	190	170	1	0.5	0.52	1, 2

REMARKS:
1. EXISTING VAV BOX AND CONTROLS TO REMAIN
2. REBALANCE EXISTING VAV BOX AIRFLOW AND GPM

DIFFUSER, REGISTER & GRILLE SCHEDULE

MARK	NECK SIZE	MFR.	TYPE	PATTERN	FRAME TYPE	SERVICE	MATERIAL STL.	MATERIAL AL.	MATERIAL S.S.	REMARKS
D-1	SEE SHEET	PRICE	SCDA	4-WAY	24"X24" LAY-IN	SUPPLY	●			1, 2, 3
D-2	SEE SHEET	PRICE	SCDA	4-WAY	24"X24" LAY-IN	SUPPLY	●			2, 3, 4
SD-2	8"Ø	EXISTING TO REMAIN								
SD-3	10"Ø	EXISTING TO REMAIN								
G-1	SEE SHEET	PRICE	80	EGGCRATE	24"X24" LAY-IN	RETURN/EXHAUST	●			1, 3
G-2	SEE SHEET	PRICE	80	EGGCRATE	24"X24" LAY-IN	RETURN/EXHAUST	●			3, 4
RG-2	EXISTING TO REMAIN									

REMARKS:
1. WHITE ENAMEL FINISH
2. WITH BALANCING DAMPER
3. COORDINATE FRAME TYPE WITH ARCHITECTURAL CEILING DRAWINGS
4. BLACK ENAMEL FINISH

EXHAUST FAN SCHEDULE

MARK	MFR.	MODEL	TYPE	SERVICE	CFM	S.P.	RPM	DRIVE	HP	FLA	ELECT.	APPROX. WEIGHT	REMARKS
PT-EF-10	GREENHECK	USF-15	UTILITY	LABORATORY	1600	2"	1770	DIRECT	0.95	-	208/3	272	1-5, 8-14
PT-EF-5	GREENHECK	SP-110-VG	CEILING MOUNTED	EX RESTROOM	100	0.2"	841	DIRECT	8 WATTS	0.2	120/1	15	1-3, 6, 7
PT-EF-12	GREENHECK	SP-110-VG	CEILING MOUNTED	RESTROOM	100	0.2"	841	DIRECT	8 WATTS	0.2	120/1	15	1-3, 5, 7

REMARKS:
1. FACTORY DISCONNECT SWITCH
2. GRAVITY BACKDRAFT DAMPER
3. VARI-GREEN MOTOR
4. BIRD SCREEN
5. SPEED CONTROLLER AT MOTOR FOR BALANCING
6. FAN HANGING ISOLATION KIT
7. INTERLOCK FAN WITH LIGHT SWITCH
8. VARI-GREEN CONSTANT PRESSURE CONTROL
9. HI-PRO POLYESTER, CONCRETE GRAY-RAL 7023 COATING
10. NEMA-3R SWITCH
11. WELDED SCROLL HOUSING
12. UPBLAST DISCHARGE
13. HINGED ACCESS DOOR
14. 1" DRAIN ON FAN HOUSING

MCES ERWRF Operations & Maintenance Bldgs Reno

Outside Air Calcs for First Floor

Ps = System Population = Maximum number of occupants expected to be concurrently in all zones served by PT-AHU-1 = 20

Date: 4/19/2025

Room #	Room Name	Occupancy Category	People Outdoor Air Rate Rp	Pz	(Rp)(Pz)	Area Outdoor Air Rate Ra	Az	(Ra)(Az)	Vbz (Pz)+(Ra)(Az)	Ez	Voz Vbz/Ez	Vpz	Zp Voz/Vpz
PT-104	Corridor	Corridor	0	0	0	0.06	310	19	19	0.8	23	380	0.06
PT-113	Corridor	Corridor	0	0	0	0.06	400	24	24	0.8	30	300	0.10
PT-124	Laboratory	Science laboratory	10	5	50	0.18	700	126	176	0.8	220	1200	0.18
PT-141	SCADA	Computer lab	10	2	20	0.12	150	18	38	0.8	48	300	0.16
PT-120	Laundry/ Janitors	Restroom	0	0	0	0.06	400	24	24	0.8	30	200	0.15
PT-116	Break Room	Breakroom	5	14	70	0.12	770	92	162	0.8	203	800	0.25
Totals				21	140		2730	303	443			3180	

D = Occupant Diversity = Ps / ∑ all zones Pz = 0.952
Vou = Uncorrected Outdoor Air Intake = D∑all zones RpPz + ∑all zones RaAz = 436.33 CFM
Max Zp= 0.25
Ev = 0.9
Vot = Outdoor Air Intake = Vou/Ev = 485 CFM

MCES ERWRF Operations & Maintenance Bldgs Reno

Outside Air Calcs for Second Floor

Ps = System Population = Maximum number of occupants expected to be concurrently in all zones served by PT-AHU-1= 20

Date: 4/19/2025

Room #	Room Name	Occupancy Category	People Outdoor Air Rate Rp	Pz	(Rp)(Pz)	Area Outdoor Air Rate Ra	Az	(Ra)(Az)	Vbz (Pz)+(Ra)(Az)	Ez	Voz Vbz/Ez	Vpz	Zp Voz/Vpz
PT-205	Corridor	Corridor	0	0	0	0.06	635	38	38	0.8	48	1305	0.04
PT-211	Corridor	Corridor	0	0	0	0.06	289	17	17	0.8	22	150	0.14
PT-206	Assembly Room	Conference/Meeting	5	18	90	0.06	660	40	130	0.8	162	1000	0.16
PT-214	Office 1	Office space	5	1	5	0.06	200	12	17	0.8	21	350	0.06
PT-217	Office 2	Office space	5	1	5	0.06	100	6	11	0.8	14	125	0.11
PT-218	Office 3	Office space	5	1	5	0.06	100	6	11	0.8	14	125	0.11
PT-221	Office 4	Office space	5	1	5	0.06	235	14	19	0.8	24	350	0.07
PT-222	Office 5	Office space	5	1	5	0.06	185	11	16	0.8	20	250	0.08
PT-215	Meeting Room	Conference/Meeting	5	8	40	0.06	190	11	51	0.8	64	550	0.12
Totals				31	155		2594	156	311			4205	

D = Occupant Diversity = Ps / ∑ all zones Pz = 0.645
Vou = Uncorrected Outdoor Air Intake = D∑all zones RpPz + ∑all zones RaAz = 255.64 CFM
Max Zp= 0.16
Ev = 0.8
Vot = Outdoor Air Intake = Vou/Ev = 320 CFM

STATE OF OHIO DREW A. ROBINSON PE-89438 REGISTERED PROFESSIONAL ENGINEER

tec inc. engineering & design
4905 Bradenton Ave, STE 240
Dublin, OH 43017
t 614.267.4777
f 614.267.5617
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

No.	DATE:	DESCRIPTION	DATE:	APP'VD:	DATE:

SUBMITTAL/REVISION RECORD

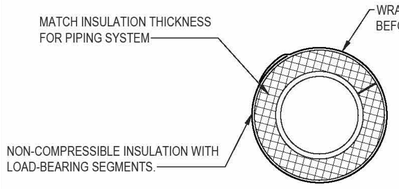
HVAC SCHEDULES

Eastern Regional Water Reclamation Facility Operations Building Renovation

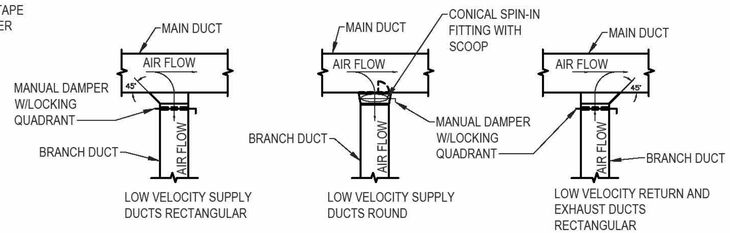
SHEET NO.
M-300

PROJ NO.: 130012-59
DATE: 06/25/2025

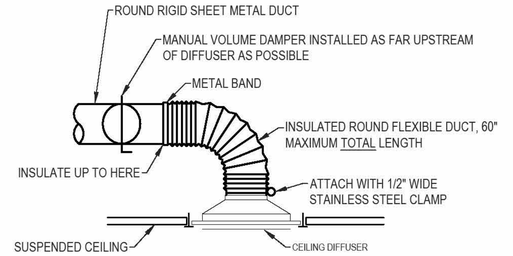
1/16" = 1'-0" | 1/8" = 1'-0" | 3/16" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"



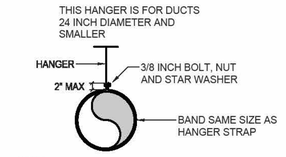
1 PIPE INSULATION AT SUPPORT
N.T.S.



2 TYPICAL BRANCH DUCT CONNECTIONS
N.T.S.

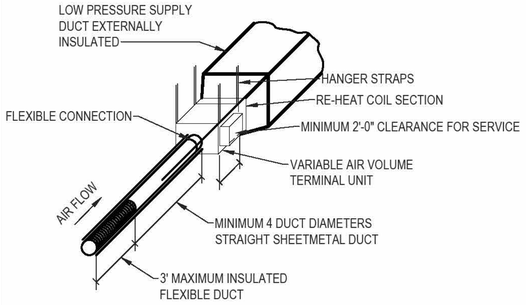


3 LAY-IN SUPPLY AIR DIFFUSER
N.T.S.

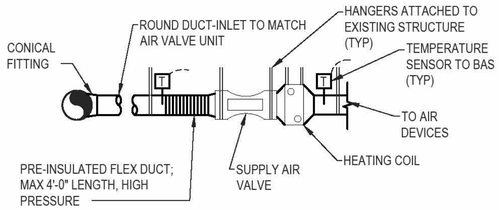


NOTES:
1. HANGERS MUST NOT DEFORM DUCT SHAPE.
2. ATTACHMENTS TO OVERHEAD STRUCTURE SHALL BE MADE IN ACCORDANCE WITH STRUCTURAL ENGINEERS REQUIREMENTS AND WEIGHT LIMITATIONS. ALL ATTACHMENT METHODS TO STRUCTURE SHALL BE SUBMITTED TO STRUCTURAL ENGINEER FOR REVIEW.
3. HANGERS AND HANGER SPACING SHALL BE INSTALLED PER CHAPTER 5, HANGERS AND SUPPORTS OF SMACNA HVAC DUCT CONSTRUCTION STANDARDS.

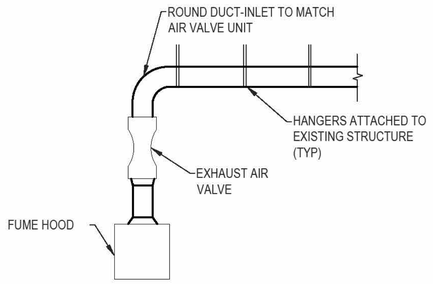
4 ROUND DUCT HANGER DETAIL
N.T.S.



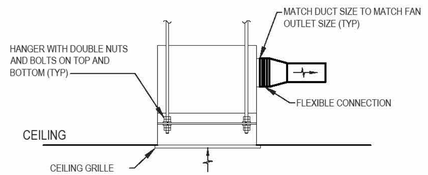
5 VARIABLE AIR VOLUME BOX
N.T.S.



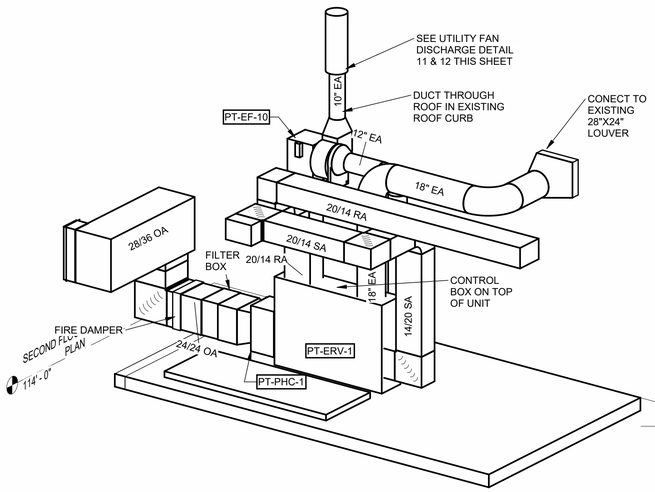
6 SUPPLY AIR VALVE DETAIL
N.T.S.



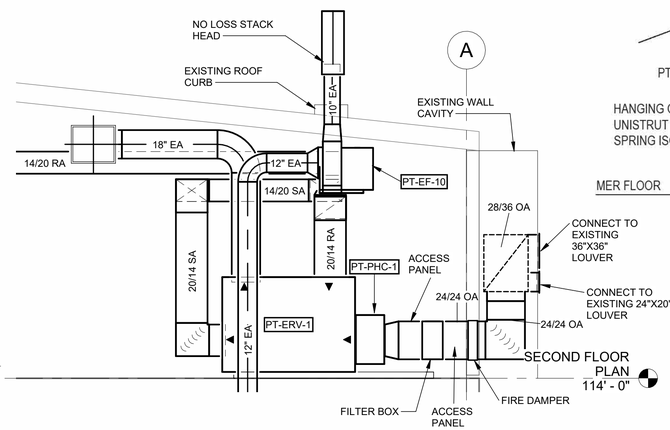
7 EXHAUST AIR VALVE DETAIL
N.T.S.



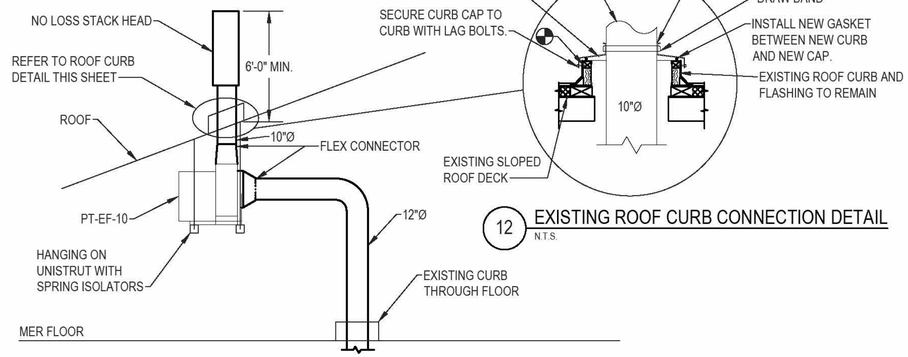
8 CEILING FAN DETAIL
N.T.S.



9 PT-ERV-1 ISOMETRIC VIEW
N.T.S.

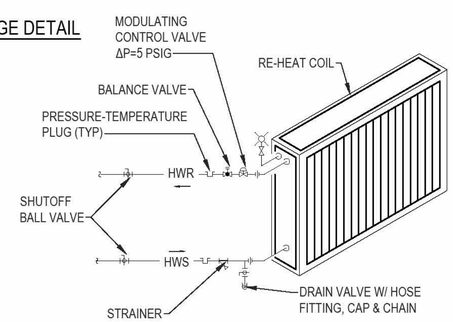


13 PT-ERV-1 SECTION VIEW
1/4" = 1'-0"



12 EXISTING ROOF CURB CONNECTION DETAIL
N.T.S.

11 UTILITY FAN DISCHARGE DETAIL
N.T.S.



10 REHEAT COIL PIPING
N.T.S.
PT-RH-1 & 2
PT-VAV-18

STATE OF OHIO
DREW A. ROBINSON
PE-83438
PROFESSIONAL ENGINEER
REGISTERED
tec inc.
engineering & architecture
4976 Bridgetown Ave, STE 240
Dublin, OH 43017
614.267.4477
614.267.5477
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

No.	DATE	DESCRIPTION	APP'VD:	DATE:
		SUBMITTAL/REVISION RECORD		

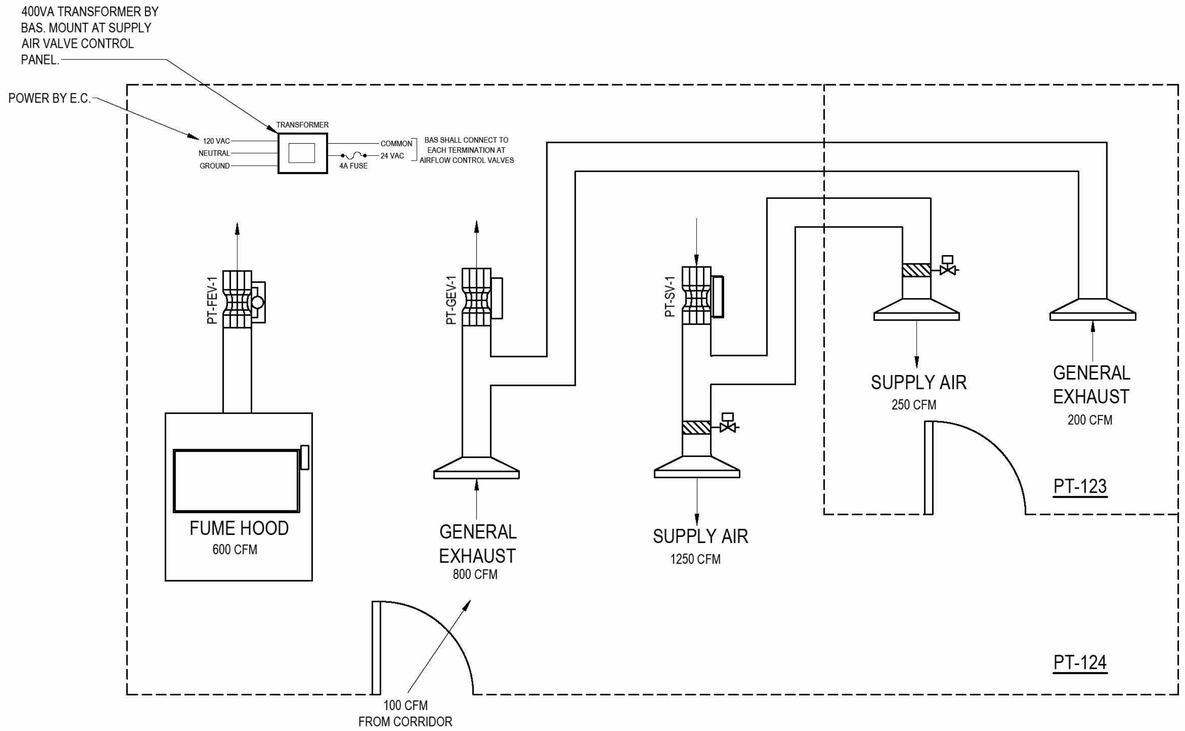
HVAC DETAILS

Eastern Regional Water Reclamation Facility Operations Building Renovation

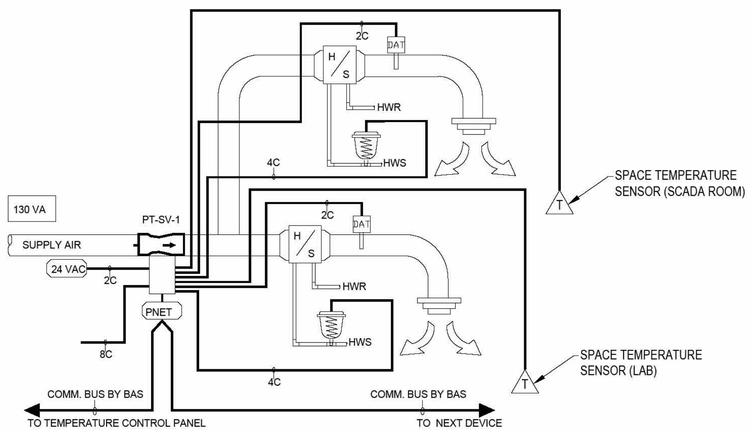
SHEET NO.
M-301

PROJ NO.: 130012-59
DATE: 06/25/2025

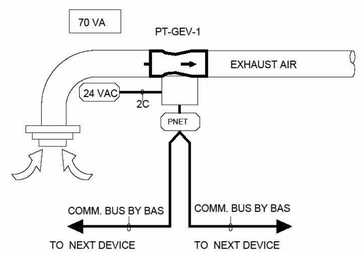
1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



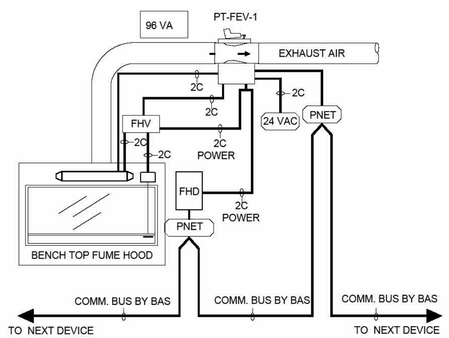
1 LABORATORY PT-124/SCADA PT-123 AIRFLOW CONTROL SCHEMATIC
N.T.S.



2 LAB AIRFLOW CONTROL SCHEMATIC - SUPPLY AIR VALVE
N.T.S.



3 LAB AIRFLOW CONTROL SCHEMATIC - GENERAL EXHAUST AIR VALVE
N.T.S.



4 LAB AIRFLOW CONTROL SCHEMATIC - FUME HOOD EXHAUST VALVE
N.T.S.

DREW A. ROBINSON PE-89458 REGISTERED PROFESSIONAL ENGINEER STATE OF OHIO

tec inc. engineering & consulting
4905 Bradenton Ave, STE 240
Dublin, OH 43017
t 614.336.4979
f 614.267.5617
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'D:	DATE:

HVAC LAB AIRFLOW CONTROL DIAGRAMS

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.
M-400

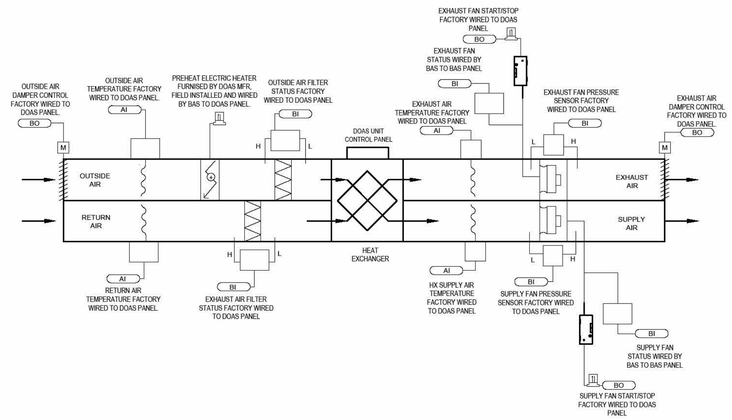
PROJ NO.: 130012-59
DATE: 06/25/2025

1/16" = 1'-0" 0 4" 8" 16' | 1/8" = 1'-0" 0 2" 4" 8' | 3/16" = 1'-0" 0 2" 4" 8" | 1/4" = 1'-0" 0 1" 2" 4" | 3/8" = 1'-0" 0 1" 2" 4" | 1/2" = 1'-0" 0 6" 1" 2" | 3/4" = 1'-0" 0 3" 6" 1' 2" | 1" = 1'-0" 0 3" 6" 1' 2" | 1 1/2" = 1'-0" 0 3" 6" 1' | 3" = 1'-0" 0 1" 2" 3" 6" 1' | 6" = 1'-0" 0 1" 2" 3" 6"

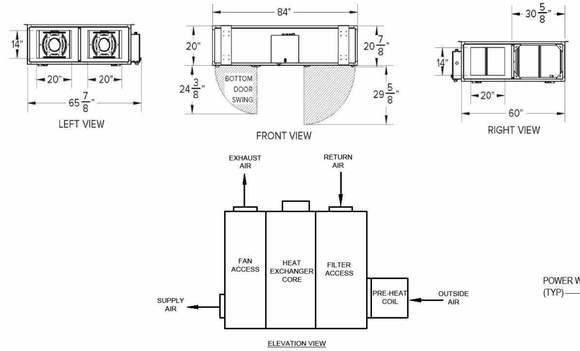
NOTE: PT-ERV-1 MFR SHALL SUPPLY ECM MOTOR CONTROLLERS, PREHEAT ELECTRIC HEATER, FILTER PRESSURE MONITORS, VALVES, DAMPERS, VALVE & DAMPER OPERATORS, AND 4 FACTORY-INSTALLED TEMPERATURE SENSORS (OUTSIDE AIR, RETURN AIR, EXHAUST AIR, AND SUPPLY AIR). BAS CONTRACTOR SHALL PROVIDE FAN STATUS CURRENT SENSORS.

POINT LIST ABBREVIATIONS:

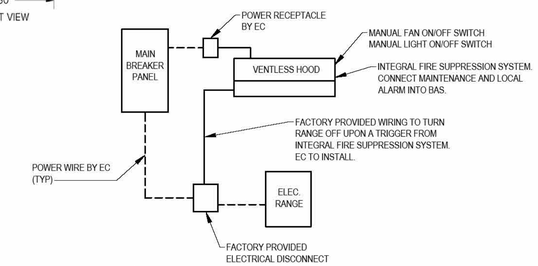
AI:	ANALOG INPUT
AO:	ANALOG OUTPUT
BI:	BINARY INPUT
BO:	BINARY OUTPUT
AV:	ANALOG VIRTUAL POINT
BV:	BINARY VIRTUAL POINT
VO:	VIRTUAL OUTPUT



1 ENERGY RECOVERY UNIT CONTROL DIAGRAM (PT-ERV-1)
N.T.S.



2 ENERGY RECOVERY UNIT ORIENTATION (PT-ERV-1)
N.T.S.



3 KITCHEN HOOD CONTROL DIAGRAM
N.T.S.

PT-ERV-1 SYSTEM POINT LIST

SYSTEM DESCRIPTION	POINT TYPE						ALARMS							
	GRAPHIC	HARDWARE INPUT	HARDWARE OUTPUT	SOFTWARE POINT	HARDWIRE INTERLOCK	INTEGRATED FROM DOAS CONTROL PANEL	HIGH ANALOG LIMIT	LOW ANALOG LIMIT	BINARY	LATCH DIAGNOSTIC	SENSOR FAIL	COMMUNICATION FAIL	DIAGNOSTICS	NOTES/ REMARKS:
UNIT OCCUPIED/UNOCCUPIED MODE				VO										INTERLOCK WITH PT-AHU-1
UNIT SUMMER/WINTER MODE				VO										
SUPPLY AIR FAN LOW SPEED SETPOINT				VO										
SUPPLY AIR FAN MID SPEED SETPOINT				VO										
SUPPLY AIR FAN HIGH SPEED SETPOINT				VO										
RETURN AIR FAN LOW SPEED SETPOINT				VO										
RETURN AIR FAN MID SPEED SETPOINT				VO										
RETURN AIR FAN HIGH SPEED SETPOINT				VO										
PREHEAT TEMPERATURE SETPOINT				VO										
OUTDOOR AIR TEMPERATURE	X					AI					X		SENSOR FAIL	
RETURN AIR TEMPERATURE	X					AI					X		SENSOR FAIL	
SUPPLY AIR TEMPERATURE	X					AI					X		SENSOR FAIL	
EXHAUST AIR TEMPERATURE	X					AI					X		SENSOR FAIL	
DISCHARGE AIR TEMPERATURE	X					AI	X	X			X		SENSOR FAIL	SENSOR BY ERV MFR. ALARM IF MORE THAN 5°F FROM SETPOINT
EXHAUST FAN STATUS	X	BI												ALARM WHEN STATUS IS DIFFERENT FROM COMMAND
SUPPLY FAN STATUS	X	BI												ALARM WHEN STATUS IS DIFFERENT FROM COMMAND
EXHAUST FILTER STATUS	X					BI			X	X	X		DIRTY FILTER	
OUTDOOR AIR FILTER STATUS	X					BI			X	X	X		DIRTY FILTER	
OUTSIDE AIR DAMPER CONTROL	X				X	BO								FAIL CLOSED
EXHAUST AIR DAMPER CONTROL	X				X	BO								FAIL CLOSED
SUPPLY FAN START/STOP	X					BO								
EXHAUST FAN START/STOP	X					BO								
CONTROLLER SPARE HARDWARE POINTS														
ANALOG INPUT(S)		3												
UNIVERSAL INPUT(S)		5												
ANALOG OUTPUT(S)		6												
BINARY OUTPUT(S)		6												

NOTE: REMOVE ALL GRAPHICS AND CONTROL POINTS ASSOCIATED WITH EQUIPMENT BEING REMOVED, AS INDICATED IN THE CONTRACT DOCUMENTS. ALL OTHER EXISTING GRAPHICS AND CONTROL POINTS SHALL REMAIN UNLESS NOTED OTHERWISE. THE EXISTING BAS SHALL BE UPDATED TO INTEGRATE ALL NEW EQUIPMENT AND ASSOCIATED POINTS AS DESCRIBED IN THIS DOCUMENT.

SEQUENCE OF OPERATION FOR EXISTING AIR HANDLING UNIT (PT-AHU-1):

1. GENERAL:
   A. MAINTAIN EXISTING SEQUENCE FOR AIR HANDLING UNIT PT-AHU-1 AND MODIFY SUPPLY FAN TO OPERATE 24 HOURS A DAY, 7 DAYS A WEEK FOR LABORATORY OPERATION AND PRESSURIZATION. COORDINATE SCHEDULE WITH OWNER.

SEQUENCE OF OPERATION FOR ENERGY RECOVERY UNIT (PT-ERV-1):

1. GENERAL:
   A. ENERGY RECOVERY UNIT IS A SINGLE ZONE, CONSTANT AIR VOLUME UNIT.
   B. THE UNIT SHALL BE INTERLOCKED AND OPERATE IN SEQUENCE WITH THE EXISTING AIR HANDLING UNIT PT-AHU-1 AND SHALL BE BACNET CAPABLE. COORDINATE SCHEDULE WITH OWNER. IF BAS COMMUNICATION IS LOST, THE CONTROLLER SHALL OPERATE USING DEFAULT MODES AND SETPOINTS. WHEN THE UNIT IS "OFF", OUTSIDE AIR AND EXHAUST AIR DAMPERS SHALL BE FULLY CLOSED. WHEN THE UNIT IS "ON", OUTSIDE AIR AND EXHAUST AIR DAMPERS SHALL BE FULLY OPEN.
2. SAFETIES:
   A. SAFETY FUNCTION RESPONSE: WHEN A SAFETY FUNCTION IS ACTIVE, THE OUTDOOR AIR AND EXHAUST AIR DAMPERS SHALL BE CLOSED AND FANS SHALL BE OFF.
3. RUN CONDITIONS:
   A. OCCUPIED MODE:
      a. SUPPLY AND EXHAUST AIR FANS SHALL MAINTAIN CONSTANT SPEED TO PROVIDE SETPOINT AIRFLOW RATES. FAN SPEEDS SHALL AUTOMATICALLY ADJUST TO COMPENSATE FOR CHANGES IN AIR DENSITY DUE TO TEMPERATURE FLUCTUATIONS AND TO OVERCOME FILTER LOADING. THE OUTSIDE AIR AND EXHAUST AIR DAMPERS SHALL OPEN TO MAX POSITION
      b. FROST PREVENTION CONTROL:
         1) WHEN EXHAUST AIR TEMPERATURE FALLS BELOW THE TEMPERATURE SETPOINT, FROST PROTECTION SHALL BE INITIATED BASED ON THE SELECTED FROST PROTECTION TYPE IN. SUPPLY FAN STOPS WHILE EXHAUST FAN RUNS TO PASS WARM AIR THROUGH THE CORE. THE PRE-HEATER SHALL OPERATE TO MAINTAIN SAFE AIR TEMPERATURES.
   B. UNOCCUPIED MODE:
      a. THE SUPPLY AND RETURN FANS SHALL BE OFF. OUTDOOR AIR AND EXHAUST AIR DAMPERS SHALL BE CLOSED. ALL ACTIVE COMPONENTS INCLUDING ELECTRIC HEATERS SHALL BE OFF, EXCEPT AS REQUIRED FOR FROST PROTECTION.
      b. IF FROST PROTECTION IS ENABLED AND CONDITIONS ARE MET (SUCH AS OUTDOOR AIR TEMPERATURE BELOW SETPOINT OR HIGH CORE PRESSURE), THE SYSTEM MAY TEMPORARILY ENGAGE FANS, BYPASS DAMPER, AND ELECTRIC HEATER TO PREVENT FROST ACCUMULATION ON THE HEAT RECOVERY CORE.
4. START-UP MODE:
   A. UPON A CALL TO START THE ERV UNIT, OUTDOOR/EXHAUST AIR DAMPERS SHALL OPEN AND EXHAUST FAN SHALL START AFTER A DELAY.
   B. SUPPLY FAN SHALL START AFTER A DELAY FOLLOWING EXHAUST FAN CONFIRMATION.
   C. HEAT RECOVERY CORE (IF ACTIVE) SHALL OPERATE AT FULL CAPACITY.
   D. SUPPLY/EXHAUST FANS SHALL INCREASE TO OPERATING SETPOINTS FOR AIRFLOW/PRESSURE.
   E. WHEN EITHER FAN REACHES 95% OF SETPOINT FOR AIRFLOW/PRESSURE, STARTUP OVERRIDES ARE DISCONTINUED AND UNIT ENTERS NORMAL OCCUPIED MODE.
5. FILTER STATUS:
   A. A DIFFERENTIAL PRESSURE SWITCH FURNISHED BY THE ERV MANUFACTURER SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE FILTER WHEN THE FAN IS RUNNING. IF THE SWITCH CLOSES DURING NORMAL OPERATION A DIRTY FILTER ALARM SHALL BE ANNUNCIATED AT THE BAS.
6. MONITOR THE FAN MOTOR STATUS BY A CURRENT SENSOR (FURNISHED BY BAS CONTRACTOR) AT EACH FAN AND SIGNAL AN ALARM TO THE BAS IF THE UNIT FAILS TO OPERATE. CURRENT SENSOR AND WIRING SHALL BE PROVIDED BY BAS CONTRACTOR.
7. MONITOR SUPPLY, OUTSIDE, RETURN, AND EXHAUST AIR TEMPERATURES, DIRTY FILTER STATUS, AND ALARM CONDITIONS. ANNUNCIATE MONITORED POINTS AND ALARM CONDITIONS TO THE BAS.
8. THE ERV CONTROL PANEL SHALL RECEIVE THE FOLLOWING CONTROL SIGNALS VIA BACNET INTERFACE FROM THE BAS:
   A. OCCUPIED/UNOCCUPIED MODE (SCHEDULE).
9. BAS GRAPHICS SHALL INCLUDE DIAGRAM OF ERV UNIT AND ALL NEW POINTS ON THIS SHEET.

STATE OF OHIO DREW A. ROBINSON PE-83438 PROFESSIONAL ENGINEER

tec inc. engineering & management
#916 Brodenton Ave, STE 240
Dublin, OH 43017
t 614.267.1777
f 614.267.5617
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DESCRIPTION	DATE	APP'VD:	DATE:

HVAC TEMPERATURE AIRFLOW CONTROL DIAGRAMS

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.
M-401

PROJ NO.: 130012-59
DATE: 06/25/2025

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"

ELECTRICAL SYMBOL LIST

- ITEMS SHOWN LIGHTLY ARE EXISTING.
- ITEMS SHOWN DASHED ARE TO BE REMOVED OR RELOCATED.
- ITEMS SHOWN BOLD ARE NEW.
- A — LED OR FLUORESCENT CEILING FIXTURE, SURFACE OR STEM MOUNTED FIXTURE, UPPERCASE LETTER AT FIXTURE INDICATES FIXTURE TYPE, SEE FIXTURE SCHEDULE.
- COVE LIGHT FIXTURE OR LED LINEAR LIGHT FIXTURE
- LED OR FLUORESCENT RECESSED CAN FIXTURE
- $ D — SINGLE POLE 20 AMP. TOGGLE SWITCH. 'D' INDICATES 0-10V DIMMING. '3' INDICATES A 3 WAY SWITCH.
- DUPLEX 20 AMP. 120V. GROUNDING TYPE CONVENIENCE OUTLET.
- QUAD 20 AMP. 120V. GROUNDING TYPE CONVENIENCE OUTLET.
- GROUND FAULT INTERRUPTER RECEPTACLE.
- JUNCTION BOX.
- SPECIAL RECEPTACLE - SEE RESPECTIVE NOTE
- A ← 6 — CONDUIT RUN CONCEALED IN CEILING OR WALL. ARROWS INDICATE HOME RUN TO PANELBOARD. LETTERS AND NUMBERS INDICATE PANELBOARD AND CIRCUIT NUMBER.
- PANELBOARD (SEE PANEL SCHEDULE FOR VOLTAGE)
- 2-PORT DATA OUTLET LOCATION - SEE RESPECTIVE NOTE
- EMERGENCY EXIT SIGN
- DISCONNECT SWITCH
- SECURITY CAMERA DEVICE
- CARD READER / ACCESS CONTROL DEVICE
- F — MANUAL PULL STATION DEVICE
- V — AUDIO/VISUAL FIRE ALARM DEVICE
- EMERGENCY EGRESS LIGHTING DEVICE
- D — WALL MOUNTED OCCUPANCY SENSOR. 'D' INDICATES 0-10V DIMMING.

LIGHTING FIXTURES

TYPE	DESCRIPTION	MOUNT	LAMPS	MANUFACTURER & REMARKS	
A	2'X4' LED FLAT PANEL FIXTURE WITH 3500K LEDS, 80CRI MINIMUM, L70>120,000 HOURS, 0-10V INTEGRAL DIMMING DRIVER, ALUMINUM HOUSING WITH WHITE POWDER COAT FINISH, FROSTED ACRYLIC LENS. PROVIDE WITH ALL REQUIRED MOUNTING HARDWARE.	RECESSED	LED; MIN DELIVERED LUMENS 3,500	METALUX COLUMBIA LITHONIA LIGHTING	24-CGTX-35HE-L835 CBT24-A-LSCS-EDD CPX2X4-AL07-80CRI-SWW7-SWL-MVOLT
A1	2'X2' LED FLAT PANEL FIXTURE WITH 3500K LEDS, 80CRI MINIMUM, L70>120,000 HOURS, ALUMINUM HOUSING WITH WHITE POWDER COAT FINISH, FROSTED ACRYLIC LENS. PROVIDE WITH ALL REQUIRED MOUNTING HARDWARE.	RECESSED	LED; MIN DELIVERED LUMENS 3,500	METALUX COLUMBIA LITHONIA LIGHTING	22-CGTX-35HE-L835 CBT22-A-LSCS-EDD CPX2X2-AL07-80CRI-SWW7-SWL-MVOLT
B	6" ROUND RECESSED CAN LIGHT, WET LOCATION RATED. PROVIDE WITH 3500K LEDS, 90CRI MINIMUM, L70>80,000, GALVANIZED STEEL HOUSING WITH PLASTER FRAME, WHITE POWDER COATED ACRYLIC LENS.	RECESSED	LED; MIN DELIVERED LUMENS 800	PRESCOLITE HALO	LBP6-6LBP-8L-35K-WH E750ICAT/RL56
C	4' RECTANGULAR PENDANT LIGHTING FIXTURE. PROVIDE WITH 3500K LEDS, 80+ CRI, 50,000 HOURS, EXTRUDED ALUMINUM HOUSING WITH POWDER COAT FINISH	PENDANT	LED; MIN DELIVERED LUMENS 550	ALCON LIGHTING LUMENWERX FINELITE	12100-33-P-S2' VIA4P HP-X-P-D-4'
C1	4' RECTANGULAR SURFACE LIGHTING FIXTURE. PROVIDE WITH 3500K LEDS, 80+ CRI, 50,000 HOURS, EXTRUDED ALUMINUM HOUSING WITH POWDER COAT FINISH	SURFACE	LED; MIN DELIVERED LUMENS 550	ALCON LIGHTING LUMENWERX FINELITE	12100-33-S-S2' VIA4S HP-X-SM-D-4'
D	4" WIDE, FLUSHED LINEAR LED WITH EXTRUDED ACRYLIC, FLUSH ACRYLIC LENS. BLACK TEXTURED TRIM HOUSING TO BE 20 GA. EXTRUDED ALUMINUM WITH 22GA. STEEL HIGH REFLECTANCE WHITE REFLECTOR FINISH. 3500K LED'S WITH 80 MIN CRI. ALL REQUIRED TRANSITION PIECES AS SHOWN ON THE DRAWINGS. SEE DRAWINGS FOR FIXTURE LENGTHS.	FLUSH	LED; MIN DELIVERED LUMENS 375LF	PINNACLE FOCAL POINT FINELITE	EV4D-R-835-10'-10"-G1-U-OL2-1-0-BL FSM4PR-ALH-FL4-375LF-35K-1C-UNV-LD1-G HP-WG-4D-10'-10"-835-120V-SC-WB-SSA-E-L-FE-R-C1
D1	4" WIDE, SUSPENDED LINEAR LED WITH EXTRUDED ACRYLIC, ACRYLIC LENS. BLACK TEXTURED TRIM HOUSING TO BE 20 GA. EXTRUDED ALUMINUM WITH 22GA. STEEL HIGH REFLECTANCE WHITE REFLECTOR FINISH. 3500K LED'S WITH 80 MIN CRI, FIXTURE SHALL BE REGRESSED 4" WIDE AND INCLUDE ADJUSTABLE LIT HOUSING. ALL REQUIRED TRANSITION PIECES AS SHOWN ON THE DRAWINGS. SEE DRAWINGS FOR FIXTURE LENGTHS.	SUSPENDED	LED; MIN DELIVERED LUMENS 375LF	PINNACLE FOCAL POINT FINELITE	EX4D-HE-N-35-R10-U-FSD-1-BL FSM4PR-ALH-FL4-375LF-35K-1C-UNV-LD1
E	14" ROUND SURFACE MOUNTED OUTDOOR CANOPY LIGHT, PROVIDE WITH 3500K LEDS, 82CRI MINIMUM, L70>100,000, HIGH QUALITY CAST ALUMINUM WITH FROSTED ACRYLIC DIFFUSER.	SURFACE	LED; MIN DELIVERED LUMENS 1,600	BROWNLEE	7200-BL-L16-35K
E1	14" ROUND SURFACE MOUNTED OUTDOOR CANOPY LIGHT, PROVIDE WITH 3500K LEDS, 82CRI MINIMUM, L70>100,000, HIGH QUALITY CAST ALUMINUM WITH FROSTED ACRYLIC DIFFUSER.	SURFACE	LED; MIN DELIVERED LUMENS 2,200	BROWNLEE	7200-BL-L32-35K
EX	THERMOPLASTIC LED EXIT SIGN WITH TWO HEADS AND SEALED NICKEL CADMIUM EMERGENCY BATTERY	SURFACE	BY MFR	SURE-LITES BIG BEAM LITHONIA LIGHTING	APXH7RG EXKL LHQM LED R
EM	LOW PROFILE, THERMOPLASTIC EMERGENCY LIGHTING UNIT, SELF DIAGNOSTIC TESTING	SURFACE	BY MFR	EXITRONIX EVENLITE COMPASS	QMR-WH TEBL3W-SD CU2SD

PANEL: PT-IP-4 — **LOCATION: 124**

VOLTS: 120 /240 — MAIN LUGS: 100A — ★ LOCK ON CLIP
NEUTRAL: YES — MAIN BREAKER: 100A — ★★ GFI TYPE
GROUND BUS: YES — SUB FEED: NA
MOUNTING: SURFACE — NOTE: EXISTING SQUARE D PANEL CAT NO. 92241-1A-418. FED FROM 15 KVA 480/120V TRANSFORMER

	LOAD	BRKR	WIRE	KW	#	A	B	#	KW	WIRE	BRKR	LOAD	
O	FIT-46034	20/1		0.75	1			2			20/2	SPARE	
O	FIT-A6033	20/1		0.75	3			4			--	----	
O	FIT-A6032	20/1		0.75	5			6	0.75		20/1	AIT-A6071	O
O	FIT-A6031	20/1		0.75	7			8	0.75		20/1	AUTO SAMPLER SCREEN ROOM	O
O	GAS DET. PANEL (AIC-A6301)	20/1		0.50	9			10	0.50	12	20/1	WATER FOUNTAIN	R ■
R	SCADA RECEPTACLES	20/1	12	0.54	11			12	0.28	12	20/1	LAB LIGHTING	L ■
■ R	LAB WEST WALL FUME HOOD	20/1	12	0.50	13			14			20/1	SPARE	
	SPARE	20/1			15			16	0.75		20/1	RECEPTACLE	R
■ R	RECEPT - WEST LAB	20/1	12	0.72	17			18	0.36	12	20/1	LAB ROOM QUAD RECEPTACLE	R ■
	SPARE	20/1			19			20	0.75		20/1	REFRIGERATOR	R
■ R	LAB ROOM QUAD RECEPTACLE	20/1	12	0.36	21			22	0.50	12	20/1	SUPPLY AIRFLOW CONTROL VALVE	O ■
■ R	ROOM 124 COMPUTER RECEPTACLES	20/1	12	0.72	23			24	0.75		20/1	SCREEN ROOM	R
■ R	SCADA RECEPTACLES	20/1	12	0.54	25			26			20/1	SPARE	

CONNECTED KW: A 6.23 B 6.04 — CONNECTED AMPS: A 51.9 B 50.3

LOAD SUMMARY:	(L)IGHTS	(R)ECPT	(M)OTOR	(A)PPLIANCE	(O)THER	PHASE TOTAL:
CONN. KW A	0.0	3.0	0.0	0.0	3.3	6.2
CONN. KW B	0.3	3.5	0.0	0.0	2.3	6.0
					TOTAL:	12.3

PANEL: PT-IP-3 — **LOCATION: OFFICE**

VOLTS: 120 /208 — MAIN LUGS: 100A — * GFI TYPE
NEUTRAL: YES — MAIN BREAKER: 100A — ** LOCK ON CLIP
GROUND BUS: YES — SUB FEED: NO
MOUNTING: RECESSED — NOTE: EXISTING SQUARE D PANEL CAT NO. 92241-1A-653. FED FROM 10KVA 480/120 TRANSFORMER

	LOAD	BRKR	WIRE	KW	#	A	B	C	#	KW	WIRE	BRKR	LOAD	
R	COMPUTER ISLAND RECEPTACLE	20/1		1.00	1				2	1.00		20/1	COMPUTER ISLAND RECEPTACLE	R
■ R	RESTROOM RECEPTACLES	20/1	12	0.54	3				4	1.00		20/1	COMMUNICATIONS HUB CAB	R
■ R	MEETING ROOM RECEPTACLES	20/1	12	0.72	5				6	1.00	12	20/1	TEMPERATURE CONTROL PANEL	A ■
R	FILTER PRESS PLC	20/1		1.00	7				8			20/1	SPARE TO FILTER PRESS CAB	
R	NORTH + EAST WALL RECEPTACLES	20/1		1.00	9				10	0.51	12	20/1	MEETING ROOM, OFFICES, ROOM 223 LIGHTING	L ■
■ R	ROOM 206 RECEPTACLES	20/1	12	1.08	11				12	0.23	12	20/1	ASSEMBLY ROOM, KITCHEN, ROOM 207 LIGHTING	L ■
	SPARE	20/1			13				14	1.30	12	20/1	CORRIDOR LIGHTING	L ■
■ R	OFFICE 5 RECEPTACLES	20/1	12	0.72	15				16	0.80	12	20/1	KITCHEN 208 REFRIGERATOR	R ■
■ R	OFFICE 4 RECEPTACLES	20/1	12	0.72	17				18	0.80	12	20/1	MEETING ROOM REFRIGERATOR	R ■
■ R	OFFICE 3 RECEPTACLES	20/1	12	0.72	19				20	0.80	12	20/1	KITCHEN 208 ICE MACHINE	R ■
■ R	OFFICE 2 RECEPTACLES	20/1	12	0.72	21				22	1.00	12	20/1	KITCHEN 208 COFFEE POT	R ■
■ R	OFFICE 1 RECEPTACLES	20/1	12	0.72	23				24	1.50	12	20/1	KITCHEN 208 MICROWAVE	R ■
	MAIN BREAKER	100/3			25				26	0.75	12	20/1	KITHEN 208 GARBAGE DISPOSAL	R ■

CONNECTED KW: A 6.57 B 6.29 C 6.77 — CONNECTED AMPS: A 54.8 B 52.4 C 56.4

LOAD SUMMARY:	(L)IGHTS	(R)ECPT	(M)OTOR	(A)PPLIANCE	(O)THER	PHASE TOTAL:
KW:	1.3	5.3	0.0	0.0	0.0	6.6
	0.6	5.8	0.0	0.0	0.0	6.3
	0.2	6.5	0.0	0.0	0.0	6.8
					TOTAL:	19.6

PANEL: LP-1 — **LOCATION: BREAK ROOM**

VOLTS: 120 /208 — MAIN LUGS: 225A — * GFI TYPE
NEUTRAL: YES — MAIN BREAKER: 225A — ** LOCK ON CLIP
GROUND BUS: YES — SUB FEED: NO
MOUNTING: SURFACE — NOTE: NEW PANEL FED FROM 75KVA 480/120V TRANSFORMER

LOAD	BRKR	WIRE	KW	#	A	B	C	#	KW	WIRE	BRKR	LOAD	
R BREAK ROOM TV RECEPTACLES	20/1	12	0.54	1				2	0.67	12	20/1	BREAK ROOM LIGHTING MEN'S LOCKER ROOM, ROOM 120	L
R BREAK ROOM KITCHEN GFCI RECEPTACLE	20/1	12	0.18	3				4	0.71	12	20/1	WOMEN'S LOCKER ROOM, CORRIDOR, STAIRWELL LIGHTING	L
R BREAK ROOM KITCHEN GFCI RECEPTACLE	20/1	12	0.18	5				6			20/1	SPARE	
R BREAK ROOM RECEPTACLES	20/1	12	0.90	7				8			20/1	SPARE	
R BREAK ROOM KITCHEN RECEPTACLE	20/1	12	0.18	9				10			20/1	SPARE	
R BREAK ROOM KITCHEN RECEPTACLE	20/1	12	0.18	11				12			20/1	SPARE	
R BREAK ROOM KITCHEN GFCI RECEPTACLE	20/1	12	0.18	13				14			20/1	SPARE	
R BREAK ROOM KITCHEN GARBAGE DISPOSAL	20/1	12	0.75	15				16			20/1	SPARE	
M VENTLESS RANGE HOOD	20/2	12	0.36	17				18			20/1	SPARE	
M ---	--	12	0.36	19				20			20/1	SPARE	
R ROOM 120 RECEPTACLES	20/1	12	0.54	21				22			20/1	SPARE	
A ROOM 120 DRYER	30/2	10	2.00	23				24			20/1	SPARE	
A ----	--	10	2.00	25				26			20/1	SPARE	
A ROOM 120 WASHER	20/1	12	1.00	27				28			20/1	SPARE	
R MEN'S LOCKER ROOM AND TIME CLOCK	20/1	12	0.90	29				30			20/1	SPARE	
R WOMEN'S LOCKER ROOM	20/1	12	0.90	31				32			20/1	SPARE	
R BREAK ROOM RECEPTACLE	20/1	12	0.18	33				34			20/1	SPARE	
R BREAK ROOM RECEPTACLE	20/1	12	0.18	35				36			20/1	SPARE	
R BREAK ROOM ICE MACHINE	20/1	12	0.80	37				38			20/1	SPARE	
A BREAK ROOM RANGE	50/2	6	3.00	39				40			20/1	SPARE	
A ---	--	6	3.00	41				42			20/1	SPARE	

CONNECTED KW: A 6.35 B 6.54 C 6.80 — CONNECTED AMPS: A 52.9 B 54.5 C 56.7

LOAD SUMMARY:	(L)IGHTS	(R)ECPT	(M)OTOR	(A)PPLIANCE	(O)THER	PHASE TOTAL:
KW:	0.7	3.3	0.4	2.0	0.0	6.4
	0.7	1.8	0.0	4.0	0.0	6.5
	0.0	1.4	0.4	5.0	0.0	6.8
					TOTAL:	19.7

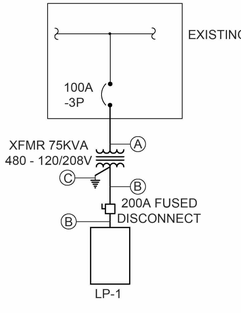
PANEL: PT-LP-4 — **LOCATION: ELECTRICAL ROOM**

VOLTS: 120 /208 — MAIN LUGS: 175A — * GFI TYPE
NEUTRAL: YES — MAIN BREAKER: 175A — ** LOCK ON CLIP
GROUND BUS: YES — SUB FEED: NO
MOUNTING: SURFACE — NOTE: EXISTING SQUARE D PANEL CAT NO. 2944896463001 0001

	LOAD	BRKR	WIRE	KW	#	A	B	C	#	KW	WIRE	BRKR	LOAD	
	SPARE	20/1			1				2	0.34	12	20/3	VFD PT.SF.1	M ◢
	SPARE	20/1			3				4	0.34	12	--	----	M ◢
O	CS.PT-P5	15/1		1.50	5				6	0.34	12	--	----	M ◢
	SPARE	20/1			7				8			20/1	SPARE	
	SPARE	20/1			9				10	1.00		20/1	ATC POWER	O
O	GMCP	20/1		1.50	11				12	2.00		30/1	PT.E4	O
	SPARE	20/1			13				14	1.50		20/1	PLC-FP	O
	SPARE	20/1			15				16	1.50		20/1	PLC-BFP2	O
	SPARE	20/1			17				18	1.50	12	15/3	PT-ERV-1	M ◢
	SPARE	20/1			19				20	1.50	12	--	----	M ◢
	SPARE	20/1			21				22	1.50	12	--	----	M ◢
O	WT 2352	20/1		0.50	23				24	1.00		20/1	AHU	M
◢ O	EV CAR CHARGER	50/2	6	4.16	25				26			20/1	L5PLC 120 (SPARE)	
◢ O	---	--	6	4.16	27				28	1.00		20/1	AHU 1ST FLOOR	M
M	PT.ERV-1	15/3	12	1.50	29				30			20/1	SPARE	
◢ M	---	--	12	1.50	31				32			20/1	SPARE	
◢ M	---	--	12	1.50	33				34			20/1	SPARE	
◢ O	EV CAR CHARGER	50/2	6	4.16	35				36			20/1	SPARE	
◢ O	---	--	6	4.16	37				38	0.26	12	15/3	PT-EF-10	M ◢
	SPARE	20/1			39				40	0.26	12	--	----	M ◢
	SPARE	20/1			41				42	0.26	12	--	----	M ◢

SPARE A 13.42 B 11.26 C 14.26 — CONNECTED AMPS: A 111.8 B 93.8 C 118.8

LOAD SUMMARY:	(L)IGHTS	(R)ECPT	(M)OTOR	(A)PPLIANCE	(O)THER	PHASE TOTAL:
KW:	0.0	0.0	3.8	0.0	9.8	13.4
	0.0	0.0	4.6	0.0	6.7	11.3
	0.0	0.0	4.6	0.0	9.7	14.3
					TOTAL:	38.9



FEEDER SCHEDULE

- (A) (3) 2 AWG & (1) 8 AWG GND IN 1.25" CONDUIT
- (B) (4) 4/0 AWG & (1) 4 AWG GND IN 2" CONDUIT
- (C) 2 AWG GND

PARTIAL MCC ONE-LINE

■ INDICATES CHANGED LOADS TO EXISTING BREAKER
◢ INDICATES CHANGED LOADS TO NEW BREAKER

PHASING NOTE :

THE WORK IS TO BE DONE IN TWO PHASES. PHASE 1 IS ALL SECOND FLOOR WORK. PHASE 2 IS ALL FIRST FLOOR WORK. CONTRACTORS SHALL SCHEDULE INSTALLATION TO MINIMIZE WORK IN "OUT-OF-PHASE" AREAS.

STATE OF OHIO — DREW A ROBINSON PE-89438 — REGISTERED PROFESSIONAL ENGINEER

tec inc. engineering & surveying
4976 Bradenton Ave., STE 240
Dublin, OH 43017
t 614.267.4777
f 614.267.5477
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'VD.	DATE

ELECTRICAL SYMBOL LIST & LIGHTING SCHEDULE

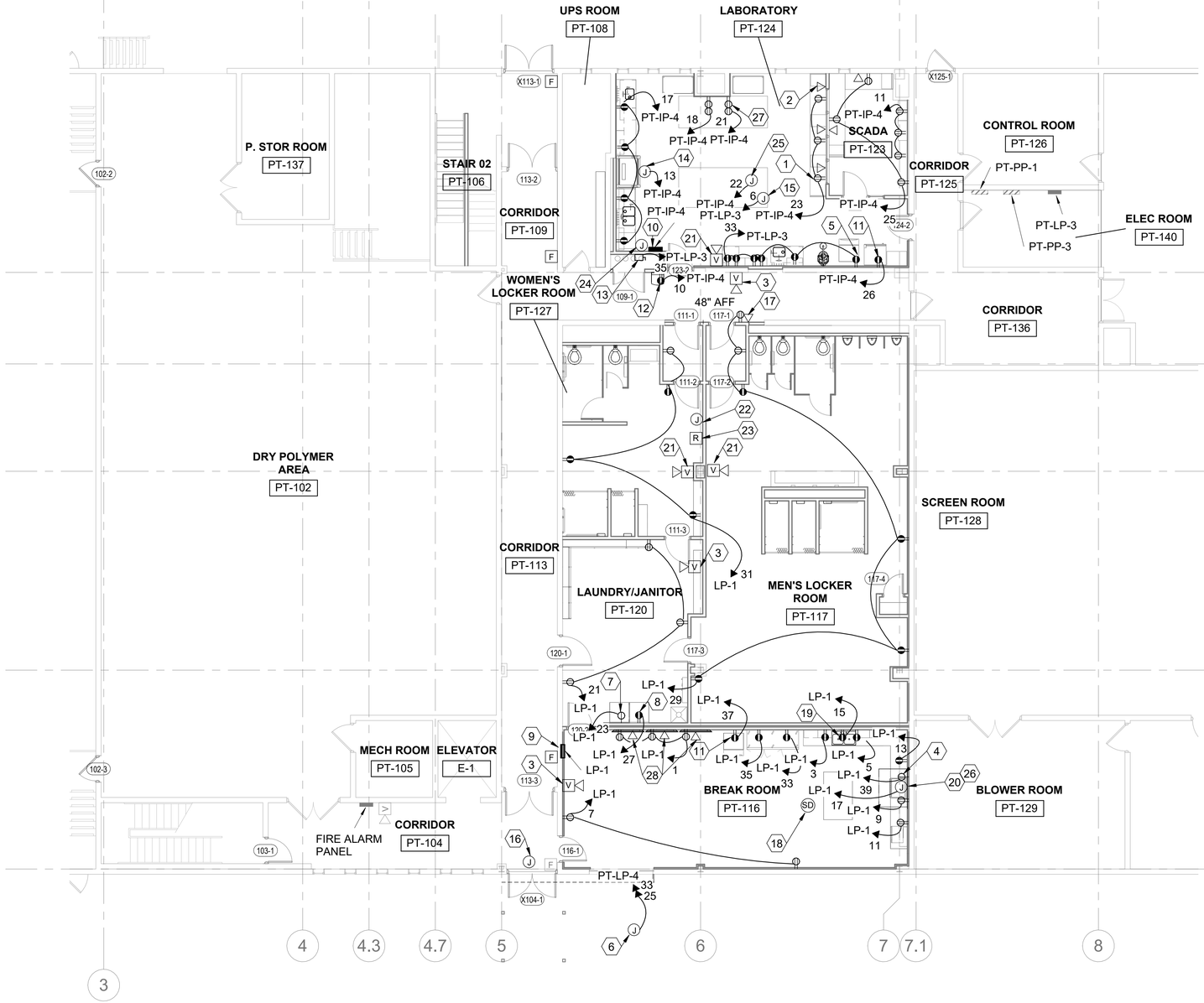
Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO. E-001

PROJ NO.: 130012-59

DATE: 06/25/2025

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



1 ELECTRICAL FIRST FLOOR POWER NEW WORK PLAN

1/8" = 1'-0"

N

PLAN NOTES

1. TYPICAL TO ALL: PROVIDE 20A, 120V DUPLEX RECEPTACLE IN THIS LOCATION AND WIRE COMPLETE.
2. TYPICAL TO ALL: PROVIDE DATA RECEPTACLE IN THIS LOCATION AT 32" AFF OR IF ABOVE COUNTER AT 36" ABOVE COUNTER. COORDINATE COUNTER ELEVATIONS WITH ARCHITECTURAL SHEETS. PROVIDE CABLING PER SPECIFICATIONS.
3. PROVIDE NEW WALL MOUNTED AUDIO / VISUAL FIRE ALARM DEVICE. EXTEND NEAREST FIRE ALARM NAC CIRCUIT AND WIRE COMPLETE.
4. PROVIDE 50A, 208V SINGLE PHASE CIRCUIT FOR RANGE, OBTAIN RECEPTACLE DISCONNECT SWITCH FURNISHED BY HVAC CONTRACTOR AND INSTALL. RECEPTACLE DISCONNECT SHALL HAVE A NEMA 14-50R RECEPTACLE.
5. TYPICAL TO ALL: PROVIDE 20A, 120V GROUND FAULT PROTECTED DUPLEX RECEPTACLE AND WIRE COMPLETE.
6. INSTALL OWNER-FURNISHED PEDESTAL MOUNTED LEVEL 2 CHARGING STATION IN THIS LOCATION. PROVIDE (2) 50A, 2-POLE CIRCUIT BREAKER. PROVIDE NEW FEED (3) 6 AWG & (1) 10 AWG GND IN EXISTING CONDUIT FROM PT-LP-4 TO ABOVE BREAKROOM CEILING. PROVIDE NEW CONDUIT FROM BREAK ROOM TO EV CHARGING STATION AND WIRE COMPLETE. ROUTE EXTERIOR CONDUIT DOWN WALL TO BELOW GRADE AND ROUTE BELOW GRADE TO PEDESTAL. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
7. PROVIDE 30A, 208V, 1 PH SPECIAL RECEPTACLE FOR DRYER AND WIRE COMPLETE. PROVIDE WITH GFCI BREAKER AND CONFIRM EXACT NEMA CONFIGURATION WITH OWNER. FURNISHED DRYER.
8. PROVIDE 20A, 120V GROUND FAULT PROTECTED DUPLEX RECEPTACLE FOR WASHING MACHINE AND WIRE COMPLETE.
9. PROVIDE 225A, 120/208V, 3PH PANEL IN THIS LOCATION. SEE ONE-LINE DIAGRAM AND PANEL SCHEDULE. PROVIDE 75KVA 480-120/208V TRANSFORMER IN SECOND FLOOR ELECTRICAL ROOM. UTILIZE EXISTING 100A SPARE MCC BUCKET. PROVIDE 200A FUSED DISCONNECT SWITCH ON SECONDARY SIDE OF TRANSFORMER IN ELECTRICAL ROOM.
10. PROVIDE NEW PANEL IN THIS LOCATION. RECONNECT MAINTAINED FEEDER & WIRE COMPLETE. RECONNECT MAINTAINED BRANCH CIRCUITS ON SAME CIRCUIT NUMBER AS REMOVED PANEL & WIRE COMPLETE. TRACE OUT ALL EXISTING TO REMAIN BRANCH CIRCUITS THAT ARE ROUTED IN SLAB AND RE-ROUTE ABOVE CEILING TO NEAREST EXISTING TO REMAIN JUNCTION BOX.
11. PROVIDE 20A, 120V GROUND FAULT PROTECTED DUPLEX RECEPTACLE FOR ICE MACHINE AND WIRE COMPLETE.
12. PROVIDE 20A, 120V GROUND FAULT PROTECTED DUPLEX RECEPTACLE FOR WATER COOLER AND WIRE COMPLETE.
13. PROVIDE 20A, 120V TOGGLE TYPE DISCONNECT SWITCH IN THIS LOCATION FOR DI WATER PUMP AND WIRE COMPLETE.
14. PROVIDE 20A 120V CIRCUIT FOR FUME HOOD AND WIRE COMPLETE. FUME HOOD HAS A SINGLE POINT CONNECTION THAT FEEDS 120V RECEPTACLES.
15. PROVIDE 20A, 120V CIRCUIT FOR (4) BACK TO BACK TOMBSTONE RECEPTACLES ON LAB BENCH AND WIRE COMPLETE. PROVIDE POWERPOLE FROM CEILING TO LAB BENCH AND ROUTE CONDUIT BELOW BENCH TOP.
16. PROVIDE 20A, 120V CIRCUIT FROM NEAREST RECEPTACLE CIRCUIT FOR DOOR POWER SUPPLY AND WIRE COMPLETE. TYPICAL OF ALL ACCESS CONTROLLED DOORS. SEE SHEET E-204.
17. PROVIDE NEW 20A, 120V CIRCUIT & DATA RECEPTACLE FOR RELOCATED TIME CLOCK AND WIRE COMPLETE. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH-IN.
18. PROVIDE NEW CEILING MOUNTED SMOKE DETECTOR IN THIS LOCATION. EXTEND NEAREST FIRE ALARM SLC CIRCUIT AND WIRE COMPLETE.
19. PROVIDE 20A, 120V, CIRCUIT AND GFCI RECEPTACLE FOR GARBAGE DISPOSAL AND WIRE COMPLETE. PROVIDE TOGGLE TYPE DISCONNECT SWITCH ABOVE COUNTER FOR DISPOSAL OPERATION.
20. PROVIDE 20A, 120V CIRCUIT AND NEMA 5-15R RECEPTACLE FOR VENTLESS RANGE HOOD AND WIRE COMPLETE. PROVIDE 20A, 120V CIRCUIT FROM RANGE HOOD TO RECEPTACLE DISCONNECT SWITCH FOR SHUTDOWN OF RANGE.
21. NEW LOCATION OF EXISTING WALL-MOUNTED AUDIO/VISUAL FIRE ALARM DEVICE. EXTEND NEAREST FIRE ALARM NAC CIRCUIT AND WIRE COMPLETE.
22. NEW LOCATION OF HAND-OFF-AUTO STARTER FOR PT-AHU-1 EQUIPMENT. COORDINATE EXACT LOCATION WITH OWNER.
23. NEW LOCATION OF DUCT TYPE SMOKE DETECTOR REMOTE INDICATOR. COORDINATE EXACT LOCATION WITH OWNER.
24. NEW LOCATION OF GATE OPERATOR. COORDINATE EXACT LOCATION WITH OWNER.
25. PROVIDE NEW 20A, 120V CIRCUIT FOR TRANSFORMER AT SUPPLY AIRFLOW CONTROL VALVE. ABOVE CEILING.
26. PROVIDE NEW FIRE ALARM MODULE AND CONNECT TO RANGE RECEPTACLE DISCONNECT DEVICE IN PLAN NOTE 4. RANGE TO SHUT OFF UPON ALARM CONDITION.
27. TYPICAL TO ALL: PROVIDE 20A, 120V QUADRUPLEX RECEPTACLE IN THIS LOCATION AND WIRE COMPLETE.
28. PROVIDE POWER AND DATA RECEPTACLES AT MONITOR HEIGHT. COORDINATE EXACT HEIGHT WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN.

STATE OF OHIO
DREW A ROBINSON
PE-89438
REGISTERED PROFESSIONAL ENGINEER

tec inc. engineers & planners
4976 Bradenton Ave., STE 240
Dublin, OH 43017
t 614.326.5670
f 614.326.5671
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS
CONSTRUCTED BY:
START DATE:
COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'VD.	DATE

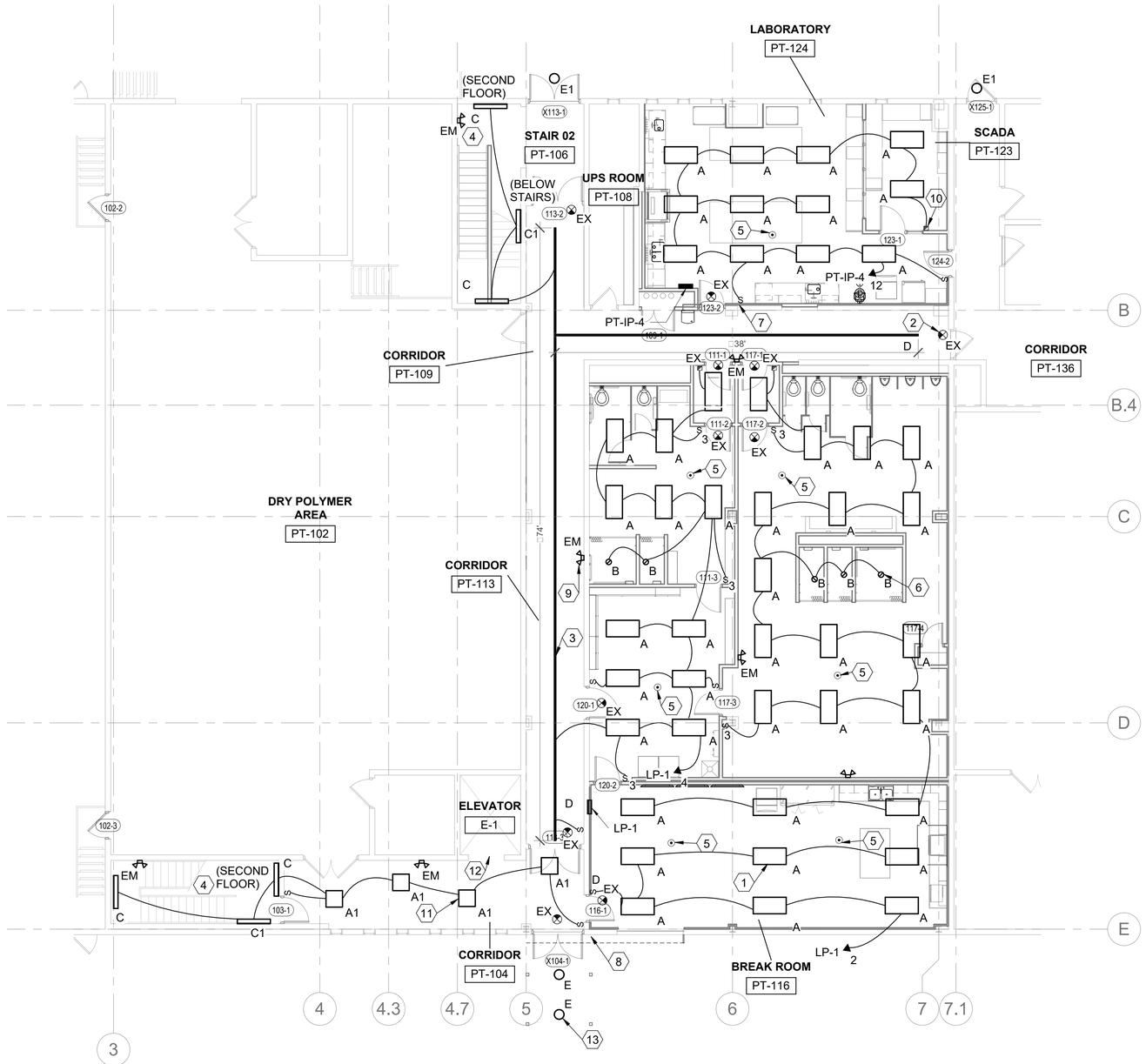
ELECTRICAL FIRST FLOOR POWER NEW WORK PLAN

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.
E-200

PROJ NO.: 130012-59
DATE: 06/25/2025

1/16" = 1'-0" 0 4' 8' 16' | 1/8" = 1'-0" 0 2' 4' 8' | 3/16" = 1'-0" 0 2' 4' 8' | 1/4" = 1'-0" 0 1' 2' 4' | 3/8" = 1'-0" 0 1' 2' 4' | 1/2" = 1'-0" 0 6" 1' 2' | 3/4" = 1'-0" 0 3" 6" 1' 2' | 1" = 1'-0" 0 3" 6" 1' 2' | 1 1/2" = 1'-0" 0 3" 6" 1' | 3" = 1'-0" 0 1" 2" 3" 6" 1' | 6" = 1'-0" 0 1" 2" 3" 6"



1 ELECTRICAL FIRST FLOOR LIGHTING NEW WORK PLAN

1/8" = 1'-0"

N

PLAN NOTES

1. TYPICAL TO ALL: PROVIDE NEW 2X4 LIGHTING FIXTURE IN THIS LOCATION AND WIRE COMPLETE.
2. TYPICAL TO ALL: PROVIDE NEW EMERGENCY EXIT SIGN IN THIS LOCATION. WIRE COMPLETE TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL SWITCHING AND CONTROLS.
3. PROVIDE RECESSED LINEAR LIGHTING IN THIS AREA AND WIRE COMPLETE.
4. PROVIDE STAIR LIGHT IN THIS LOCATION AND WIRE COMPLETE.
5. PROVIDE CEILING MOUNTED OCCUPANCY SENSOR AND WIRE COMPLETE TO LIGHTING CIRCUIT.
6. TYPICAL TO ALL: PROVIDE NEW WET RATED LIGHTING FIXTURE IN THIS LOCATION AND WIRE COMPLETE.
7. TYPICAL TO ALL: PROVIDE NEW SINGLE POLE LIGHT SWITCH IN THIS LOCATION AND WIRE COMPLETE TO INDICATED LIGHTING CIRCUIT.
8. PROVIDE NEW SCONCE LIGHTS, DETAILS TBD, ONE LIGHT ON EACH SIDE OF DOOR.
9. TYPICAL TO ALL: PROVIDE EMERGENCY EGRESS LIGHTING DEVICE IN THIS LOCATION. WIRE COMPLETE TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL SWITCHING AND CONTROLS.
10. PROVIDE WALL MOUNTED OCCUPANCY SENSOR AND WIRE COMPLETE TO LIGHTING CIRCUIT.
11. TYPICAL TO ALL: PROVIDE NEW 2X2 LIGHTING FIXTURE IN THIS LOCATION AND WIRE COMPLETE.
12. DISCONNECT POWER FROM EXISTING ELEVATOR LIGHTING. MAINTAIN CIRCUIT FOR RECONNECTION TO NEW LIGHTING. REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATOR SCOPE.
13. TYPICAL TO ALL: PROVIDE OUTDOOR LIGHT FIXTURE AND WIRE COMPLETE TO NEARBY EXTERIOR LIGHTING CIRCUIT. ROUTE CONDUIT TIGHT TO BOTTOM OF CANOPY AND PAINT WHITE TO MATCH.

STATE OF OHIO
DREW A ROBINSON
PE-89438
REGISTERED PROFESSIONAL ENGINEER

tec inc. engineering & architecture
#916 Brandon Ave, STE 240
Dublin, OH 43017
t 614.267.4477
f 614.267.5617
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD	No.	DATE	DESCRIPTION	APP'VD:	DATE:

ELECTRICAL FIRST FLOOR LIGHTING NEW WORK PLAN

Eastern Regional Water Reclamation Facility Operations Building Renovation

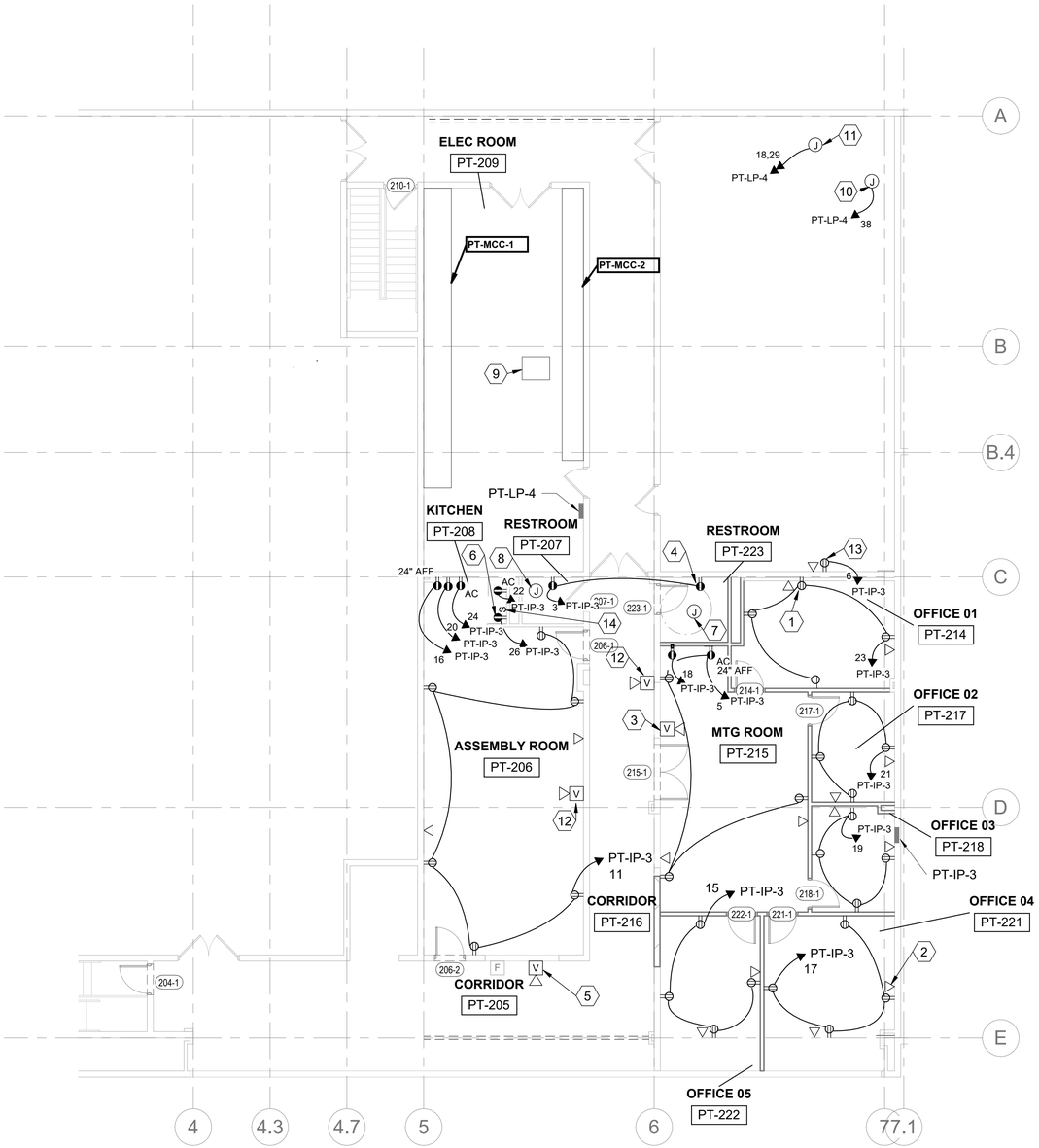
SHEET NO.

E-201

PROJ NO.: 130012-59

DATE: 06/25/2025

1/16" = 1'-0" | 1/8" = 1'-0" | 3/16" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"



1 ELECTRICAL SECOND FLOOR POWER NEW WORK PLAN

1/8" = 1'-0"

N

PLAN NOTES

1. TYPICAL TO ALL: PROVIDE 20A, 120V DUPLEX RECEPTACLE IN THIS LOCATION AND WIRE COMPLETE.
2. TYPICAL TO ALL: PROVIDE DATA RECEPTACLE IN THIS LOCATION AT 32" AFF OR IF ABOVE COUNTER AT 36" ABOVE COUNTER. COORDINATE COUNTER ELEVATIONS WITH ARCHITECTURAL SHEETS. PROVIDE CABLING PER SPECIFICATIONS.
3. NEW LOCATION OF EXISTING WALL-MOUNTED AUDIO/VISUAL FIRE ALARM DEVICE. EXTEND NEAREST FIRE ALARM NAC CIRCUIT AND WIRE COMPLETE.
4. TYPICAL TO ALL: PROVIDE 20A, 120V GROUND FAULT PROTECTED DUPLEX RECEPTACLE IN THIS LOCATION AND WIRE COMPLETE.
5. EXISTING TO REMAIN FIRE ALARM DEVICE.
6. PROVIDE 20A, 120V, CIRCUIT AND GFCI RECEPTACLE FOR GARBAGE DISPOSAL AND WIRE COMPLETE. PROVIDE TOGGLE TYPE DISCONNECT SWITCH ABOVE COUNTER FOR DISPOSAL OPERATION.
7. WIRE NEW EXHAUST FAN COMPLETE TO LOCAL LIGHTING CIRCUITS IN THIS ROOM. FAN TO RUN WHEN LIGHT FIXTURES ARE ON.
8. NEW EXHAUST FAN IN PREVIOUS LOCATION. WIRE EXHAUST FAN COMPLETE TO LOCAL LIGHTING CIRCUITS IN THIS ROOM. FAN TO RUN WHEN LIGHT FIXTURES ARE ON.
9. PROVIDE 75KVA, 480-120/208V TRANSFORMER AND PROVIDE CEILING SUSPENSION KIT. SEE ONE-LINE DIAGRAM.
10. PROVIDE 15A, 208V, 3PH CIRCUIT FOR EXHAUST FAN PT-EF10 AND WIRE COMPLETE.
11. PROVIDE (2) 15A, 208V, 3PH CIRCUITS FOR ERV DEVICE IN THIS LOCATION AND WIRE COMPLETE.
12. PROVIDE NEW WALL MOUNTED AUDIO / VISUAL FIRE ALARM DEVICE. EXTEND NEAREST FIRE ALARM NAC CIRCUIT AND WIRE COMPLETE.
13. PROVIDE 20A, 120V RECEPTACLE AND DATA RECEPTACLE FOR TEMPERATURE CONTROL PANEL AND WIRE COMPLETE.
14. PROVIDE SINGLE POLE SWITCH AND WIRE COMPLETE TO GARBAGE DISPOSAL.

STATE OF OHIO
DREW A ROBINSON
PE-89438
REGISTERED PROFESSIONAL ENGINEER

tec inc. engineering & interiors
4905 Bradenton Ave., STE 240
Dublin, OH 43017
t 614.336.4673
f 614.267.5617
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD	No.	DATE	DESCRIPTION	APP'D:	DATE:

ELECTRICAL SECOND FLOOR POWER NEW WORK PLAN

Eastern Regional Water Reclamation Facility Operations Building Renovation

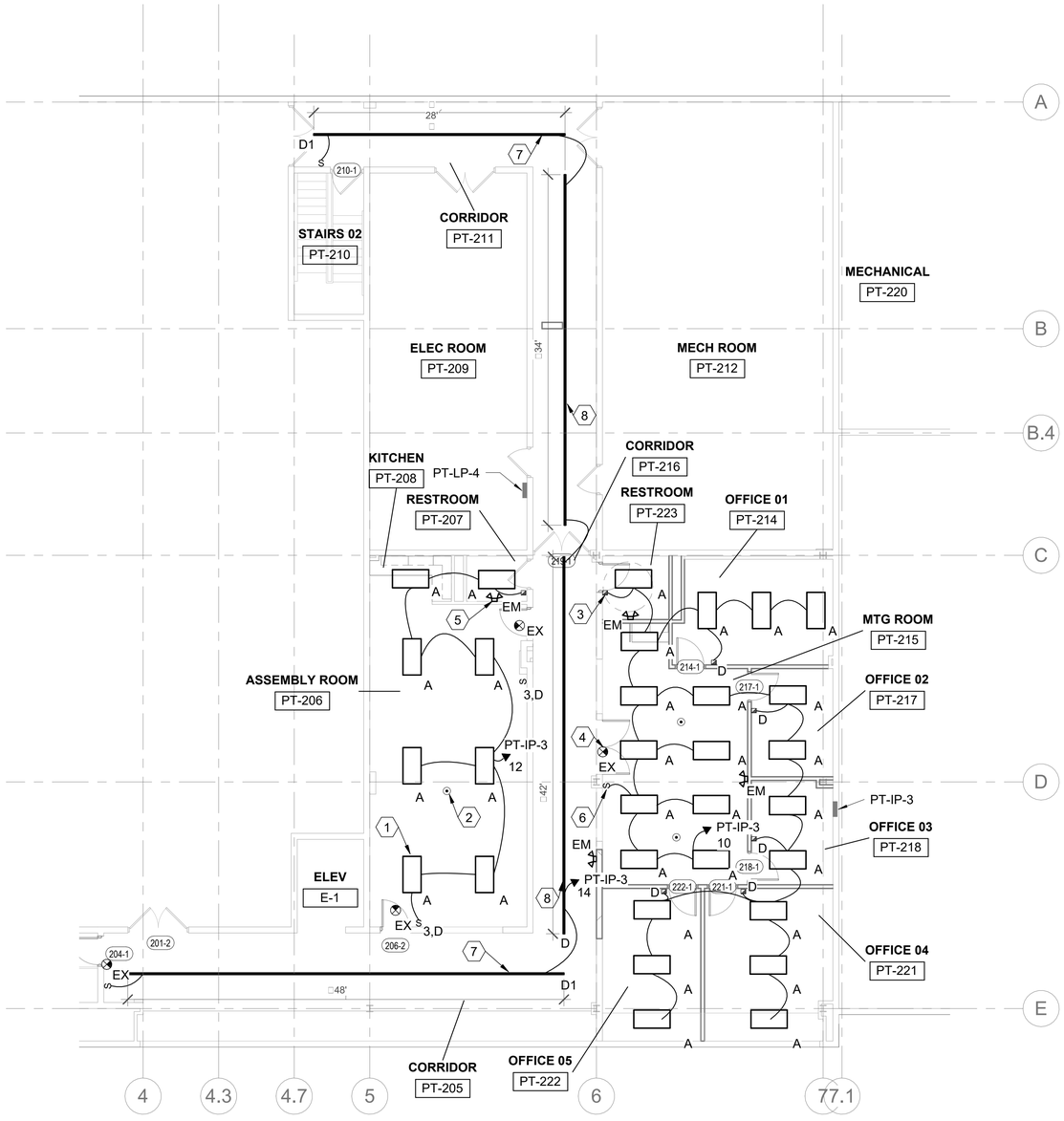
SHEET NO.

E-202

PROJ NO.: 130012-59

DATE: 06/25/2025

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"



1 ELECTRICAL SECOND FLOOR LIGHTING NEW WORK PLAN

1/8" = 1'-0"

N

PLAN NOTES

1. TYPICAL TO ALL: PROVIDE NEW 2X4 LIGHTING FIXTURE IN THIS LOCATION AND WIRE COMPLETE TO MAINTAINED CIRCUIT.
2. TYPICAL TO ALL: PROVIDE CEILING MOUNTED OCCUPANCY SENSOR AND WIRE COMPLETE TO LIGHTING CIRCUIT.
3. TYPICAL TO ALL: PROVIDE WALL MOUNTED OCCUPANCY SENSOR AND WIRE COMPLETE TO LIGHTING CIRCUIT.
4. TYPICAL TO ALL: PROVIDE EMERGENCY EXIT SIGN DEVICE IN THIS LOCATION AND WIRE COMPLETE TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL SWITCHING AND CONTROLS.
5. TYPICAL TO ALL: PROVIDE EMERGENCY EGRESS LIGHTING UNIT IN THIS LOCATION AND WIRE COMPLETE TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL SWITCHING AND CONTROLS.
6. TYPICAL TO ALL: PROVIDE SINGLE POLE LIGHT SWITCH IN THIS LOCATION AND WIRE COMPLETE TO LOCAL LIGHTING CIRCUIT.
7. PROVIDE SUSPENDED LINEAR LIGHT FIXTURE IN THIS LOCATION AND WIRE COMPLETE.
8. PROVIDE RECESSED LINEAR LIGHT FIXTURE IN THIS LOCATION AND WIRE COMPLETE.

STATE OF OHIO
DREW A ROBINSON
PE-89438
REGISTERED PROFESSIONAL ENGINEER

tec inc. engineering & interiors
#915 Brookstone Ave, STE 240
Dublin, OH 43017
t 614.267.1477
f 614.267.5617
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD	No.	DATE	DESCRIPTION	APP'D:	DATE:

ELECTRICAL SECOND FLOOR LIGHTING NEW WORK PLAN

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.

E-203

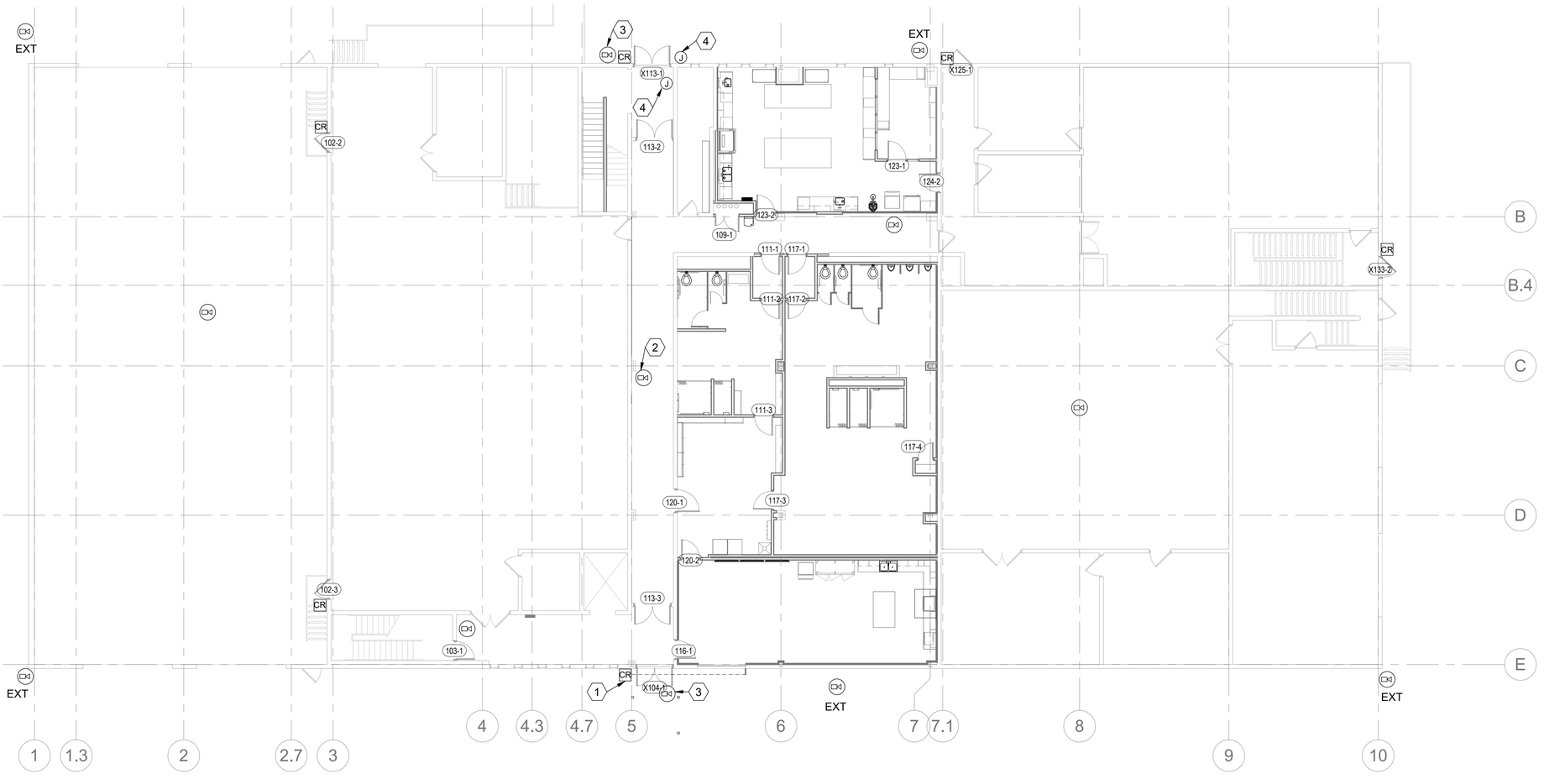
PROJ NO.: 130012-59

DATE: 06/25/2025

1/16" = 1'-0" | 1/8" = 1'-0" | 3/16" = 1'-0" | 1/4" = 1'-0" | 3/8" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"

PLAN NOTES

1. TYPICAL TO ALL: PROVIDE JUNCTION BOX FOR ACCESS CONTROL AND PROVIDE CABLES AS SPECIFIED BELOW. ROUTE CABLES FROM THIS LOCATION TO ROOM 126. SEE ARCHITECTURAL SHEETS AND SPECIFICATIONS FOR DOOR HARDWARE SCHEDULE.
    1. GENESIS DOOR STRIKE P/N 2115: 18/4 STRANDED WITH ORANGE PVC JACKET
    2. GENESIS CARD READER P/N 2206: 22/6 STRANDED WITH WHITE PVC JACKET
    3. GENESIS DOOR CONTACT P/N 2102: 22/2 STRANDED WITH BLUE PVC JACKET
    4. GENESIS REQUEST TO EXIT P/N 2104: 22/4 STRANDED WITH GREEN PVC JACKET
2. TYPICAL TO ALL: SECURITY CAMERA LOCATION (PROVIDE JUNCTION BOX FOR ALL LOCATIONS WITH DRYWALL CEILINGS). PROVIDE (3) YELLOW CAT-6 CABLE FROM THIS LOCATION TO ROOM 126. LEAVE 15' OF CAT 6 CABLE COILED NEATLY IN ROOM 126 FOR OWNER CONNECTION TO NETWORK. CAMERAS LABELED AS EXT ARE EXTERIOR.
3. PROVIDE SECUIRTY CAMERA DOORBELL IN THIS LOCATION AND WIRE COMPLETE.
4. PROVIDE PATHWAY TO DOOR OPERATOR AND ROUGH-IN FOR HANDICAP OPERATORS. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH DOOR HARDWARE PROVIDOR.



1 ELECTRICAL FIRST FLOOR SECURITY AND ACCESS CONTROL FLOOR PLAN

3/32" = 1'-0"

N

STATE OF OHIO
DREW A ROBINSON
PE-89438
REGISTERED PROFESSIONAL ENGINEER

tec inc. engineers & surveyors
4905 Bradenton Ave., STE 240
Dublin, OH 43017
t 614.336.4979
f 614.267.5617
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'VD.	DATE

ELECTRICAL FIRST FLOOR SECURITY AND ACCESS CONTROL FLOOR PLAN

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.

E-204

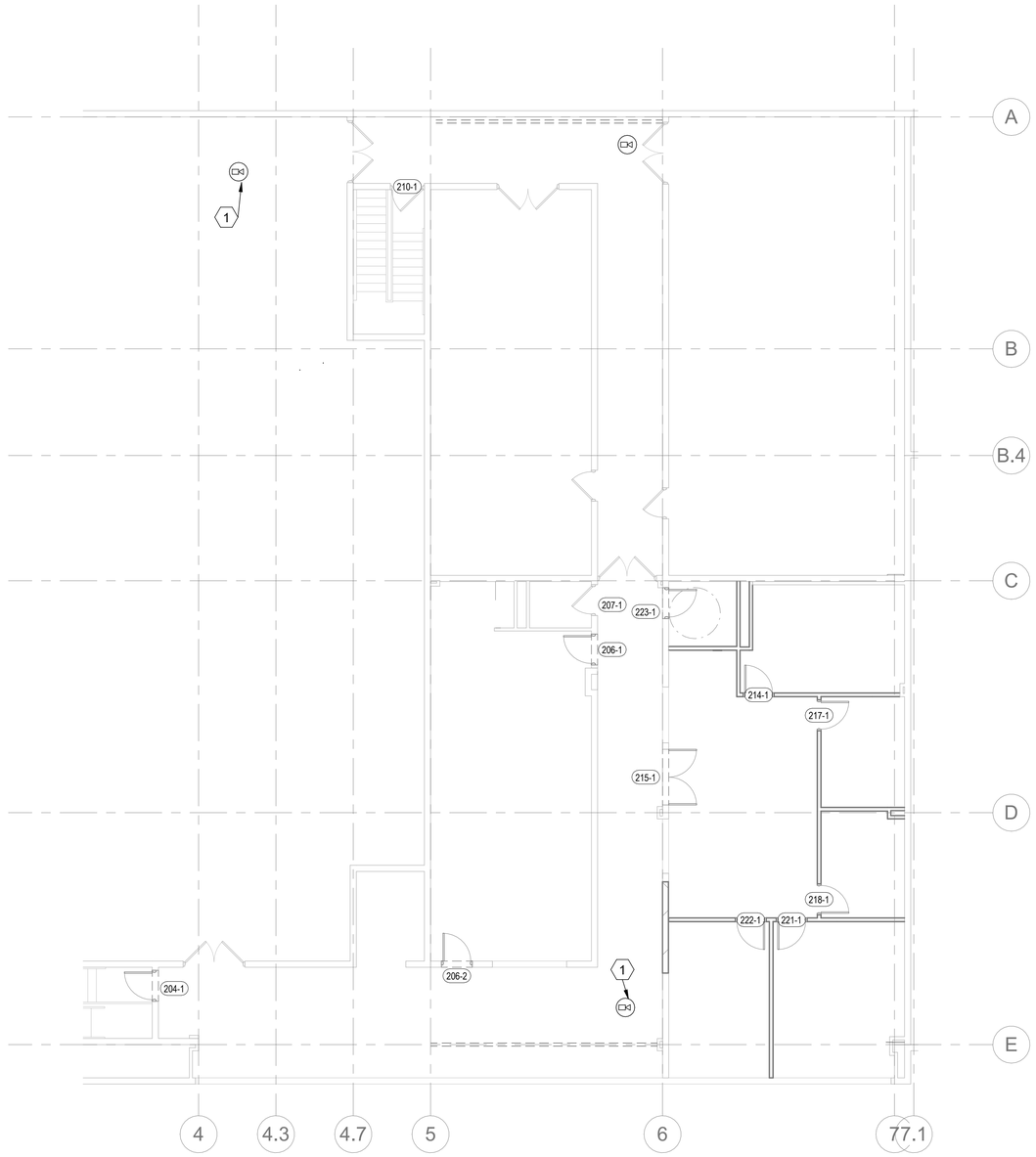
PROJ NO.: 130012-59

DATE: 06/25/2025

1/16" = 1'-0" 0 4' 8' 16'
1/8" = 1'-0" 0 2' 4' 8'
3/16" = 1'-0" 0 2' 4' 8'
1/4" = 1'-0" 0 1' 2' 4'
3/8" = 1'-0" 0 1' 2' 4'
1/2" = 1'-0" 0 6" 1' 2'
3/4" = 1'-0" 0 3" 6" 1' 2'
1" = 1'-0" 0 3" 6" 1' 2'
1 1/2" = 1'-0" 0 3" 6" 1'
3" = 1'-0" 0 1" 2" 3" 6" 1'
6" = 1'-0" 0 1" 2" 3" 6"

PLAN NOTES

1. TYPICAL TO ALL: SECURITY CAMERA LOCATION (PROVIDE JUNCTION BOX FOR ALL LOCATIONS WITH DRYWALL CEILINGS). PROVIDE (3) YELLOW CAT-6 CABLE FROM THIS LOCATION TO ROOM 126. LEAVE 15' OF CAT 6 CABLE COILED NEATLY IN ROOM 126 FOR OWNER CONNECTION TO NETWORK. CAMERAS LABELED AS EXT ARE EXTERIOR.



1 ELECTRICAL SECOND FLOOR SECURITY AND ACCESS CONTROL FLOOR PLAN

1/8" = 1'-0"

N

STATE OF OHIO
DREW A ROBINSON
PE-89438
REGISTERED PROFESSIONAL ENGINEER

tec inc. engineering & surveying
4905 Bradenton Ave, STE 240
Dublin, OH 43017
t 614.336.4979
f 614.267.5617
www.tecinceng.com
cleveland | columbus | pittsburgh

DESIGNED BY: TEC INC. ENGINEERS

CONSTRUCTED BY:

START DATE:

COMPLETION DATE:

SUBMITTAL/REVISION RECORD

No.	DATE	DESCRIPTION	APP'VD.	DATE:

ELECTRICAL SECOND FLOOR SECURITY AND ACCESS CONTROL FLOOR PLAN

Eastern Regional Water Reclamation Facility Operations Building Renovation

SHEET NO.

E-205

PROJ NO.: 130012-59

DATE: 06/25/2025