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Grand total: 105	

PROJECT TEAM DIRECTORY

OWNER
PCC SYLVANIA
9700 SW CAPITOL HILL HWY, SUITE 260
PORTLAND, OR 97219
971 722 8411

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PORTLAND, OR, 07214
503 724 0111

CONSULTING ARCHITECT
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NEW YORK, NY 10003
212 431 8751

INTERIOR DESIGNER
NOSSA NORMAN DESIGN STUDIO
503 964 1872

CONTRACTOR
FORTIS
1705 SW TAYLOR STREET, SUITE 200
PORTLAND, OR 97205
503 459 4477

CIVIL ENGINEER
KPFF
111 SW 5TH AVENUE, SUITE 2500
PORTLAND, OR 97204
503 542 3860

LANDSCAPE ARCHITECT
PLACE
735 NW 18TH AVE
PORTLAND, OR 97209
503 334 2080

STRUCTURAL ENGINEER
KPFF
111 SW 5TH AVENUE, SUITE 2600
PORTLAND, OR 97204
503 227 3251

MECHANICAL ENGINEER
ARRIS CONSULTING
2622 SE 25TH AVE, SUITE A
PORTLAND, OR 97202
503 757 2611

ELECTRICAL ENGINEER
SAMATA
2335 SE 50TH AVE
PORTLAND, OR 97215
503 894 8946

LIGHTING DESIGNER
BIELLA LIGHTING DESIGN
525 THIRD STREET, SUITE 200
LAKE OSWEGO, OR 97304
503 222 2689

PLUMBING ENGINEER
ARRIS CONSULTING
2622 SE 25TH AVE, SUITE A
PORTLAND, OR 97202
503 757 2611

SIGNAGE
MAYER/REED
319 SW WASHINGTON STREET, SUITE 820
PORTLAND, OR 97204
503 223 5953

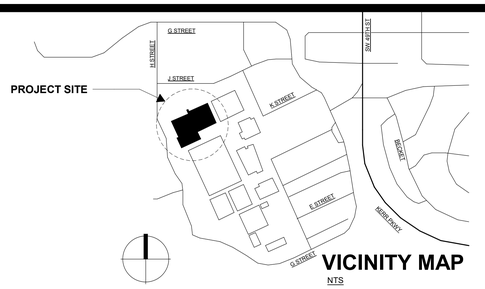
SPECIFICATIONS
M. THRAILKILL ARCHITECT LLC
511 SW 10TH AVENUE # 1004
PORTLAND, OR 97205
503 467 1057

TELECOM
CACHE VALLEY ELECTRIC TECHNOLOGY INTEGRATIONS
12550 SW 68TH AVE,
PORTLAND, OR 97223

City of Portland
Reviewed for Code Compliance
Date: 8/21/2024
Permit #: 24-020319-STR-01-CO

PCC SY - HT BUILDING WEST SIDE RENOVATION
1200 SW 49TH AVE
PORTLAND, OREGON 97219

DEMOLITION, FOUNDATION AND STRUCTURAL PERMIT SET **FEBRUARY 23, 2024**



VICINITY MAP
NTS

woofter bolch architecture
107 SE Washington Street, Suite 228
Portland, OR 97214
503 724 0111

REGISTERED ARCHITECT
Miles E. Woofter
PORTLAND, OR
4872
STATE OF OREGON

Portland Community College
12000 SW 49th Ave,
Portland, Oregon
97219

PCC SY-HT Building West Side Renovation
12000 SW 49th Ave
Portland, Oregon 97219

Date	07/10/24
Project No.	221000

Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24
2	Revision 2	07-10-24

COVER PAGE AND DRAWING INDEX

G0.00

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PROJECT CODE SUMMARY - DEMOLITION, FOUNDATION AND STRUCTURAL

PROJECT INFORMATION:

SITE ADDRESS: 12050 SW 49th Ave, Portland, OR 97219
PROPERTY ID: R331297
STATE ID: 1S1E31D200
ZONING: R991311440
MAP: SECTION 31 1S 1E, TL 200
YEAR BUILT: 1968

PROJECT DESCRIPTION:

THIS PROJECT IS A PART OF PHASED PERMIT APPLICATION.

THE SCOPE OF WORK INCLUDED IN THIS PERMIT APPLICATION INCLUDES PARTIAL DEMOLITION TO THE EXISTING HEALTH TECHNOLOGY (HT) BUILDING ON THE PCC SYLVANIA CAMPUS. ADDITIONALLY, WORK INCLUDES THE STRUCTURAL DESIGN TO ACCOMMODATE A NEW INFILL FLOOR SLAB, ASSOCIATED FOUNDATION DESIGN, AND STAIR/RAILING DESIGN.

A FUTURE PERMIT APPLICATION WILL INCLUDE ALL REMAINING ARCHITECTURAL ELEMENTS AND SYSTEMS UPGRADES FOR THE FULL RENOVATION.

A FULL CODE SUMMARY WILL BE SUBMITTED WITH THE FUTURE PERMIT APPLICATION.

JURISDICTIONAL AUTHORITY

CITY OF PORTLAND, OREGON

APPLICABLE CODES:

2022 OREGON STRUCTURAL SPECIALTY CODE (OSSC)
2021 OREGON PLUMBING SPECIALTY CODE (OPSC)
2022 OREGON MECHANICAL SPECIALTY CODE (OMSC)
2021 OREGON ENERGY EFFICIENCY SPECIALTY CODE (OEESC)
2021 OREGON ELECTRICAL SPECIALTY CODE (OESC)
CITY OF PORTLAND, CITY CODE & CHARTER TITLE 24
PORTLAND ZONING TITLE 33 PLANNING AND ZONING
2019 NFPA 13

BUILDING PERMITS:

OTHER BUILDING PERMITS FORTHCOMING IN RENOVATION (MAIN BUILDING PERMIT):
1. BUILDING PERMIT
2. MECHANICAL
3. ELECTRICAL
4. PLUMBING
5. FIRE ALARM
6. FIRE SUPPRESSION SYSTEM
7. SECURITY SYSTEM
8. TELECOM, VOICE AND DATA SYSTEMS

DEFERRED SUBMITTALS:

1. FIBER REINFORCED POLYMER (FRP)
2. ROOF TIE-OFF ANCHORS

DEFERRED SUBMITTALS (MAIN BUILDING PERMIT):

FOR THE FORTHCOMING RENOVATION (MAIN BUILDING PERMIT), THE FOLLOWING DEFERRED SUBMITTALS WILL BE SUBMITTED.

1. STOREFRONT WINDOWS AND ATTACHMENTS
2. SKYLIGHTS
3. SPRAY APPLIED FIRE PROOFING
4. SEISMIC BRACING AND ATTACHMENT OF MEPF EQUIPMENT
5. ROOFTOP PV PANELS AND ATTACHMENT
6. MECHANICAL WALKWAY

SEPARATE PERMITS TO BE OBTAINED FROM FIRE MARSHAL'S OFFICE:

FIRE SUPPRESSION SYSTEM
FIRE ALARM SYSTEM

STATE OF OREGON BUILDING CODES DIVISION PERMIT:

ELEVATOR

BUILDING CONSTRUCTION:

BUILDING CONSTRUCTION
(PER OSSC TABLE 601)

ELEMENT	CONSTRUCTION TYPE TYPE II-A
PRIMARY STRUCTURAL FRAME	1 HOUR
BEARING WALLS (EXTERIOR)	1 HOUR
BEARING WALLS (INTERIOR)	1 HOUR
NON-BEARING WALLS (EXTERIOR)	SEE TABLE BELOW
NON-BEARING WALLS (INTERIOR)	0 HOUR
FLOOR CONSTRUCTION	1 HOUR
ROOF CONSTRUCTION	1 HOUR

EXTERIOR WALL FIRE RESISTANCE:

BASED ON SEPARATION DISTANCE FOR CONSTRUCTION TYPE II-A TABLE 705.5

WALL LOCATION	DISTANCE TO PROPERTY LINE OR CL OF ROW	FIRE RESISTIVE RATING PROVIDED
NORTH	≥ 30	0
EAST	≥ 30	0
	10 ≤ 29'-8" ≤ 30	1
SOUTH	96'-3" ≥ 30	0
	10 ≤ 27'-9" ≤ 30	1
WEST	≥ 30	0

USE AND OCCUPANCY:

TYPE	DESCRIPTION
A-3	ASSEMBLY LOUNGE, GYM
B	BUSINESS OFFICE, CLASSROOM, LAB CLASSROOM, STUDIO CLASSROOM, LOCKER ROOM, EXERCISE
S-1	STORAGE - MODERATE HAZARD STORAGE

NOTE: EXISTING NATATORIUM SPACE IS NOT IN USE AND WILL NOT BE IN USE FOR DURATION OF PROJECT. POOLS ARE CURRENTLY DRAINED.

REQUIRED SEPARATION OF OCCUPANCIES:

SEPARATION REQUIREMENTS PER OSSC TABLE 508.4.

A OCC TO B OCC = 1 HOUR (SPRINKLERED)
A OCC TO S-1 OCC = 1 HOUR (SPRINKLERED)
B OCC TO S-1 OCC = NON SEPARATED

OTHER FIRE AND SMOKE PROTECTION ASSEMBLIES:

SHAFT ENCLOSURE (OSSC 713.4)= 2 HOUR
EXIT ENCLOSURE (OSSC 1023.2)= 2 HOUR
CORRIDOR WALLS (OSSC 1018.1)= 0 HOUR

EXITING REQUIREMENTS:

(PER OSSC CHAPTER 10)

OCCUPANT LOAD CALCULATIONS AND EXIT ACCESS:
REFER TO OCCUPANCY DURING CONSTRUCTION SAFETY PLANS FOR EXISTING REQUIREMENTS DURING CONSTRUCTION.

MINIMUM EXIT WIDTH PER PERSON:
STAIRWAYS: .2 W/ SPRINKLER SYSTEM
OTHER EGRESS COMPONENTS: .15 W/ SPRINKLER SYSTEM

TRAVEL DISTANCE:
(PER TABLE 1014.3 AND TABLE 1016.2)

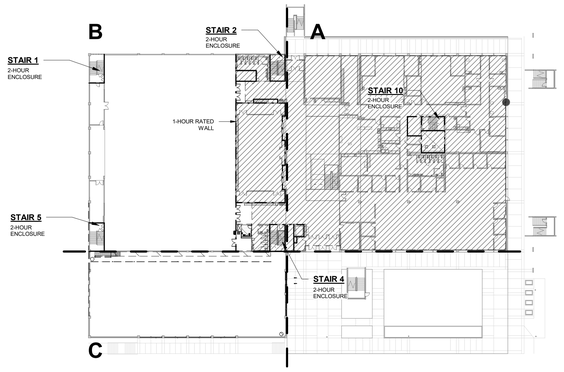
TRAVEL DISTANCE IN SPRINKLERED BUILDING PER OCCUPANCY: (PER TABLE 1017.2 AND TABLE 1006.2.1)

OCCUPANCY	TRAVEL DIST.	COMMON PATH	DEAD END
A	250'	75'	20'
B	300'	100'	50'
S-1	250'	100'	50'

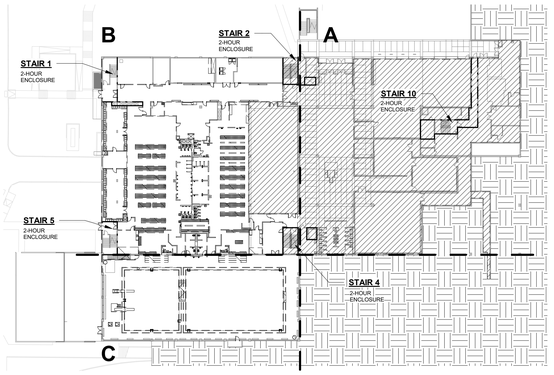
EXISTING BUILDINGS:

(PER OSSC CHAPTER 34)

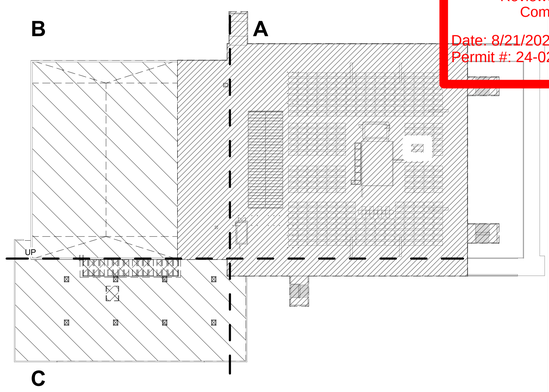
THIS PROJECT PROPOSES TO USE THE PRESCRIPTIVE COMPLIANCE METHOD.



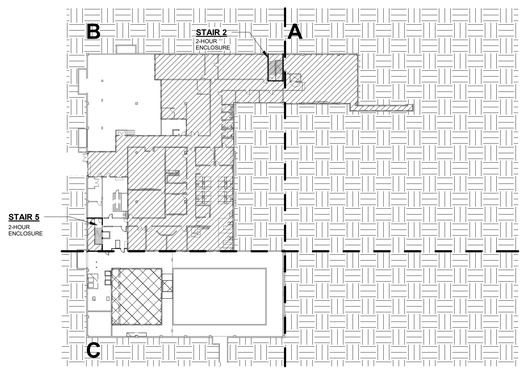
3 DEMO - LEVEL 2 - CODE SUMMARY
1" = 50'-0"



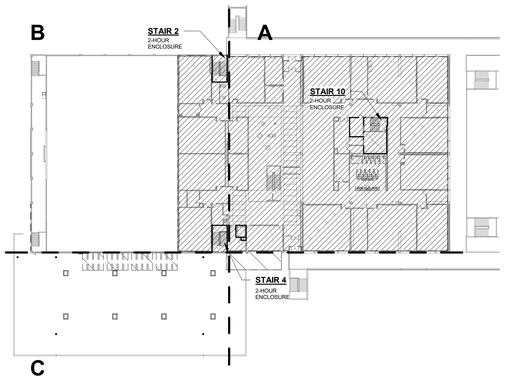
2 DEMO - LEVEL 1 - CODE SUMMARY
1" = 50'-0"



5 DEMO - ROOF - CODE SUMMARY
1" = 50'-0"



1 DEMO - BASEMENT - CODE SUMMARY
1" = 50'-0"



4 DEMO - LEVEL 3 - CODE SUMMARY
1" = 50'-0"

City of Portland
Reviewed for Code Compliance
Date: 8/21/2024
Permit #: 24-020319-STR-01-CO

w+b
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107 SE Washington Street, Suite 228
Portland, OR 97214
503 724 9111

REGISTERED ARCHITECT
Miles E. Woofter
PORTLAND, OR 4872
STATE OF OREGON

Portland Community College
12000 SW 49th Ave,
Portland, Oregon
97219

PCC SY-HT Building West Side Renovation
12000 SW 49th Ave
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Date	07/10/24
Project No.	221000

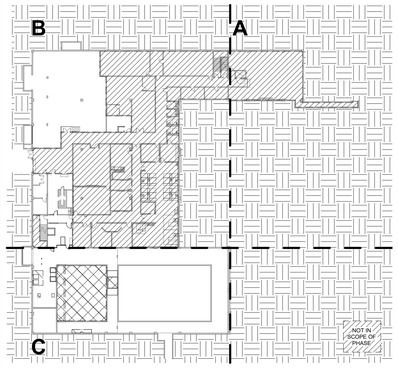
Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24
2	Revision 2	07-10-24
3	Revision 4	08-13-24

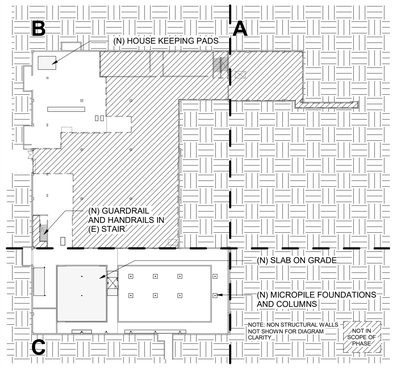
DEMO AND STRUCTURAL CODE SUMMARY

G0.02a

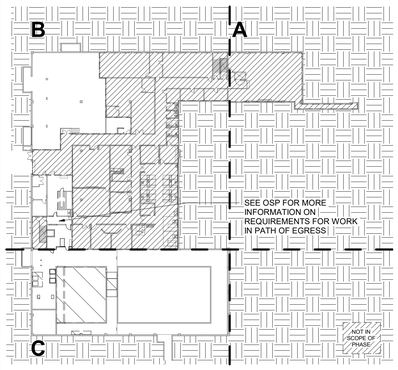
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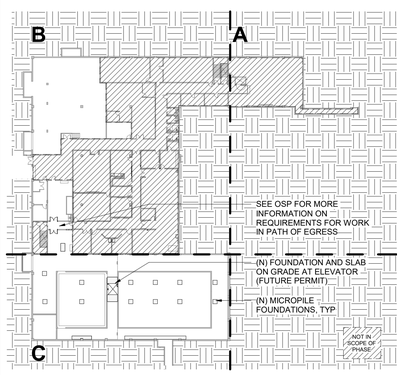
1 PERMIT PHASE 1 - DEMO - BASEMENT
1" = 50'-0"



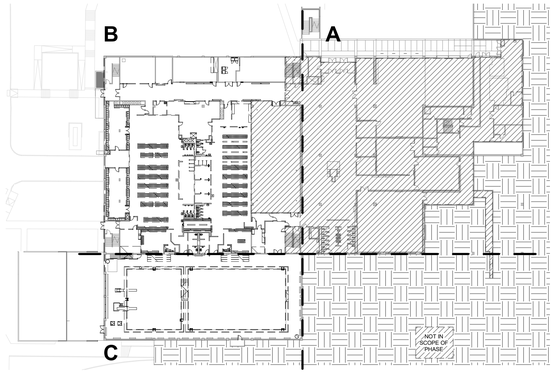
2 PERMIT PHASE 1 - STRUCTURE - BASEMENT
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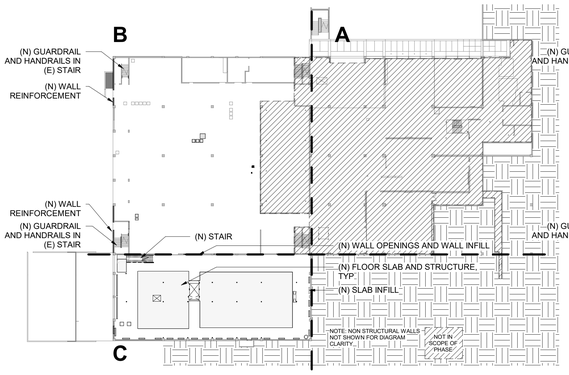
3 CONSTRUCTION PHASE 1 - DEMO - BASEMENT
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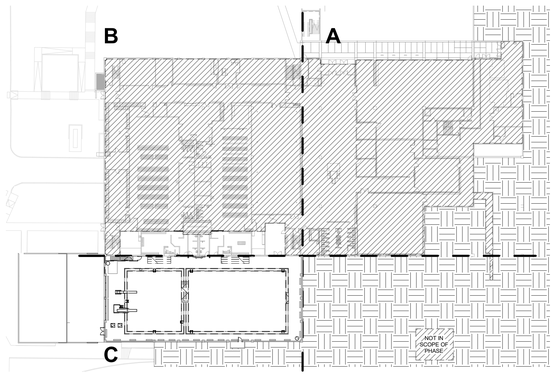
4 CONSTRUCTION PHASE 1 - BASEMENT
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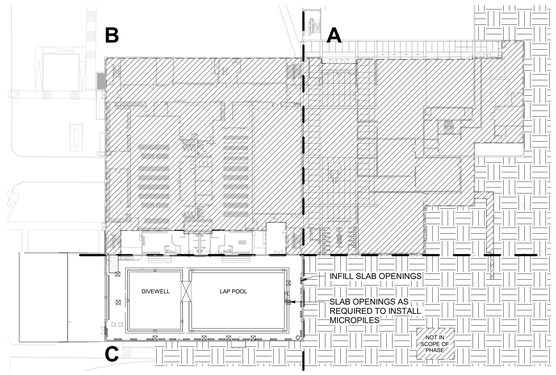
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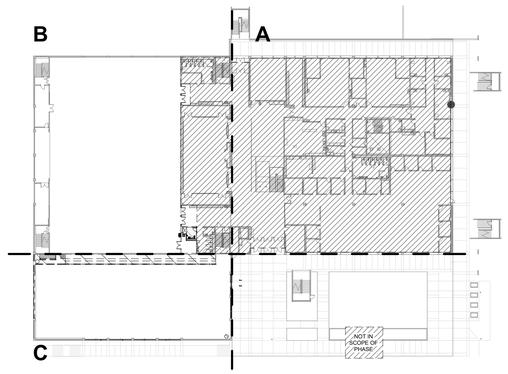
6 PERMIT PHASE 1 -STRUCTURE - LEVEL 1
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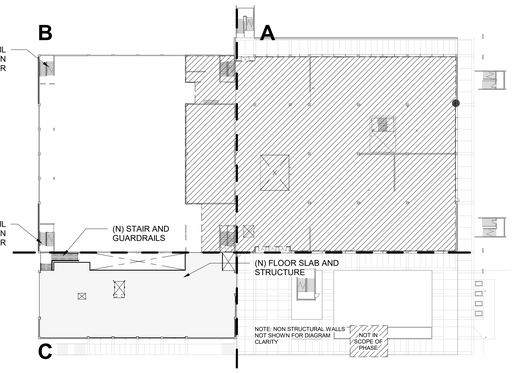
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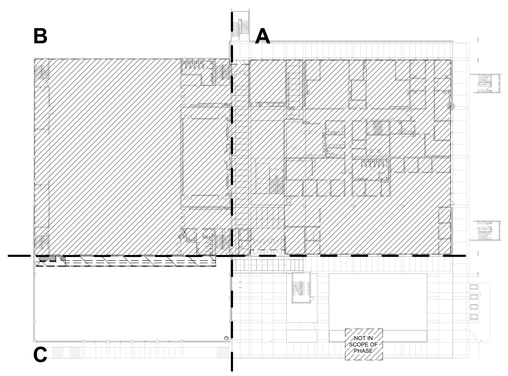
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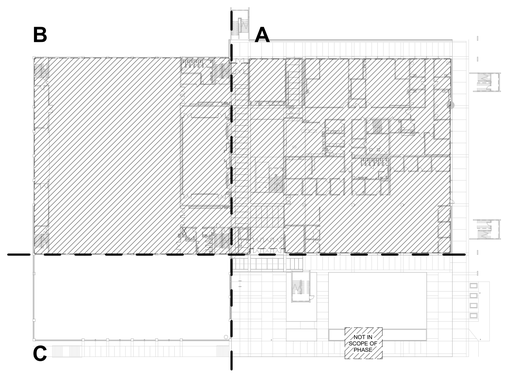
9 PERMIT PHASE 1 - DEMO - LEVEL 2
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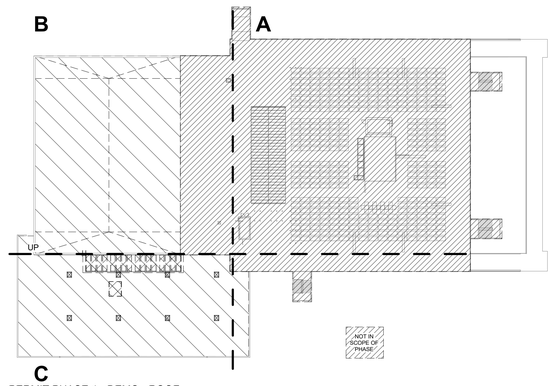
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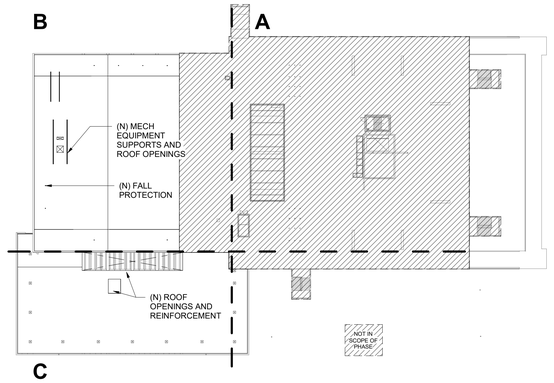
11 CONSTRUCTION PHASE 1 - DEMO - LEVEL 2
1" = 50'-0"



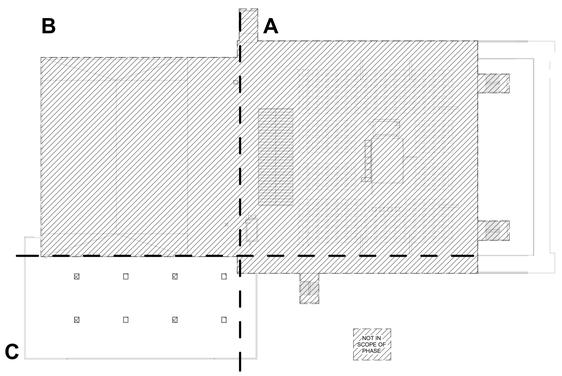
12 CONSTRUCTION PHASE 1 - LEVEL 2
1" = 50'-0"



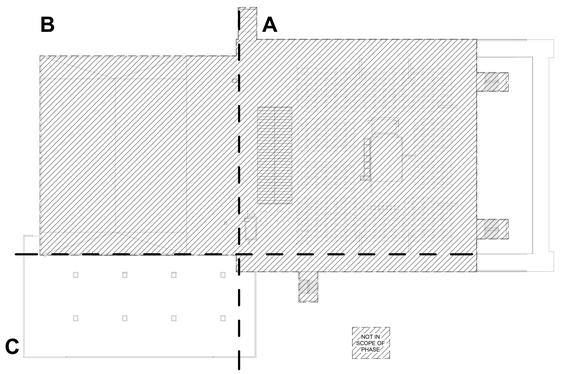
13 PERMIT PHASE 1 - DEMO - ROOF
1" = 50'-0"



14 PERMIT PHASE 1 - STRUCTURE - ROOF
1" = 50'-0"



15 CONSTRUCTION PHASE 1 - DEMO - ROOF
1" = 50'-0"



16 CONSTRUCTION PHASE 1 - ROOF
1" = 50'-0"

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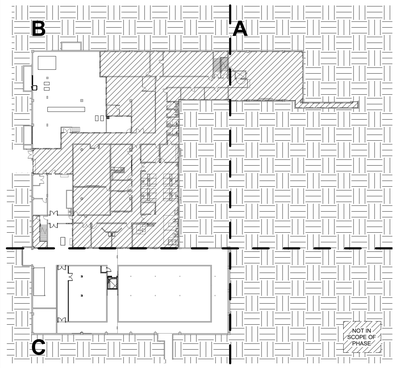
Revisions

NO.	DESCRIPTION	DATE
1	Revision 2	07-10-24
2	Revision 4	08-13-24

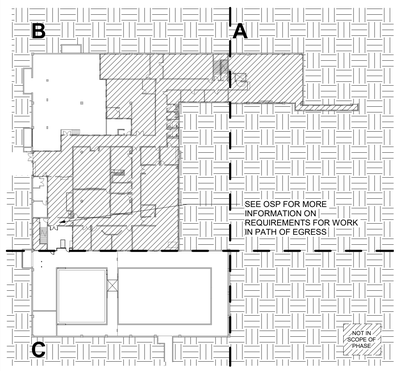
1
2
PHASING DIAGRAMS

G0.03

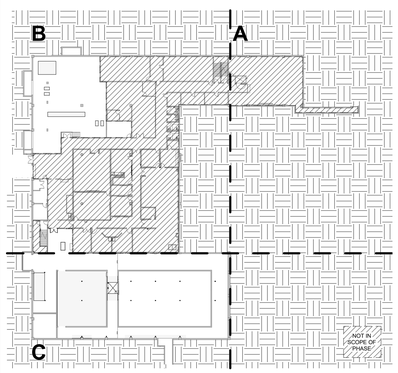
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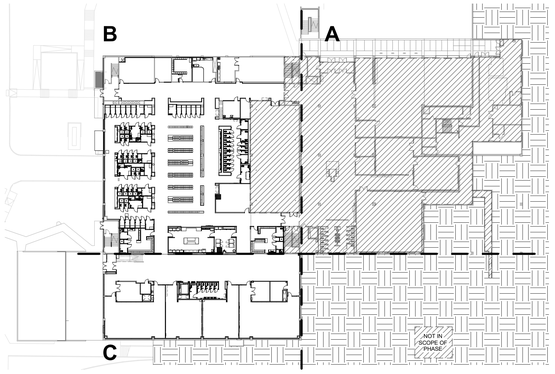
1 PERMIT PHASE 2 - BASEMENT (FOR REFERENCE)
1" = 50'-0"



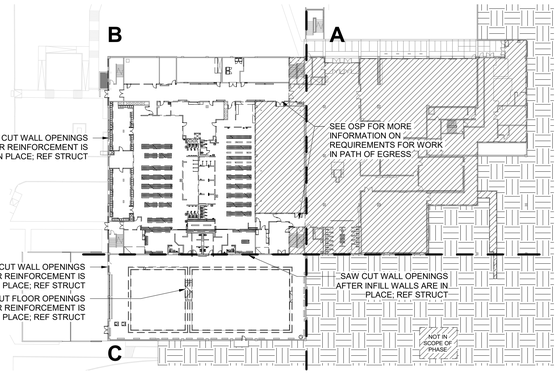
2 CONSTRUCTION PHASE 2a - DEMO - BASEMENT
1" = 50'-0"



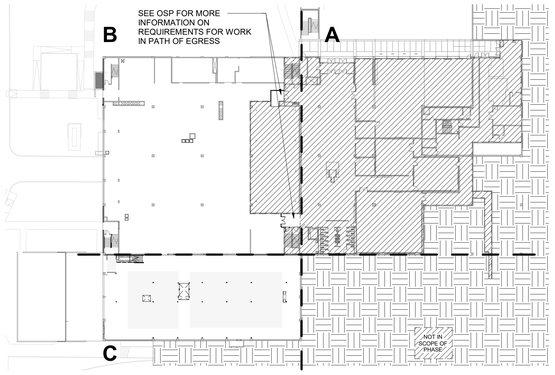
3 CONSTRUCTION PHASE 2a - BASEMENT
1" = 50'-0"



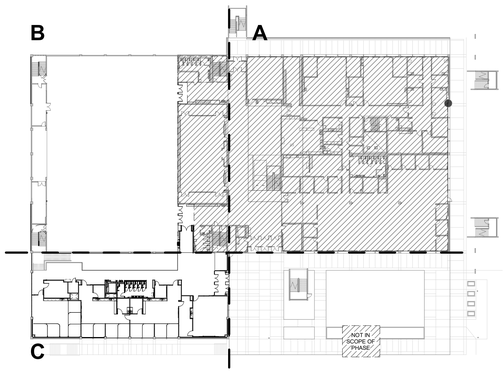
4 PERMIT PHASE 2 - LEVEL 1 (FOR REFERENCE)
1" = 50'-0"



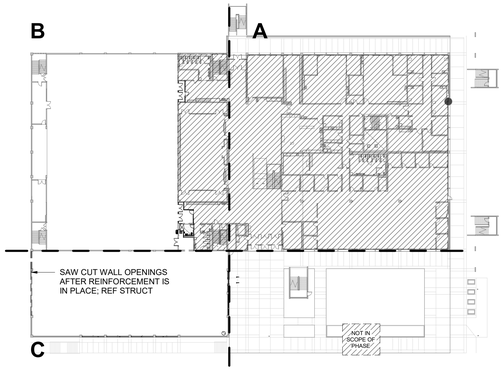
5 CONSTRUCTION PHASE 2a - DEMO - LEVEL 1
1" = 50'-0"



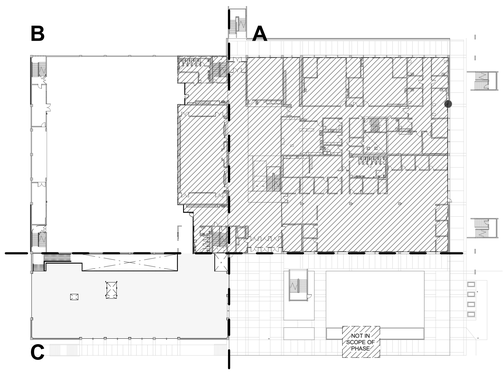
6 CONSTRUCTION PHASE 2a - LEVEL 1
1" = 50'-0"



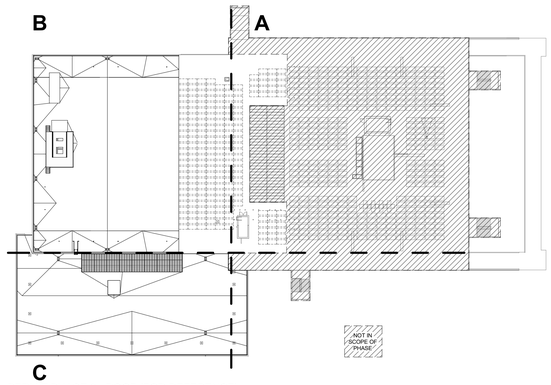
7 PERMIT PHASE 2 - LEVEL 2 (FOR REFERENCE)
1" = 50'-0"



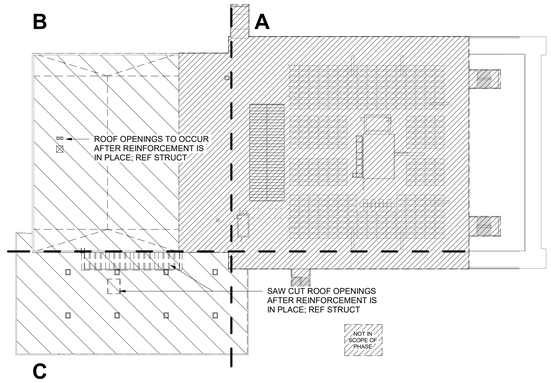
8 CONSTRUCTION PHASE 2a - DEMO - LEVEL 2
1" = 50'-0"



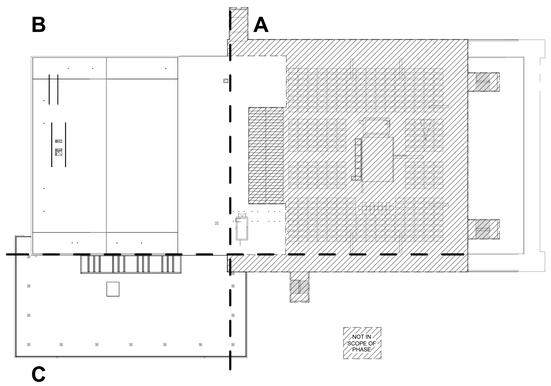
9 CONSTRUCTION PHASE 2a - LEVEL 2
1" = 50'-0"



10 PERMIT PHASE 2 - ROOF (FOR REFERENCE)
1" = 50'-0"



11 CONSTRUCTION PHASE 2a - DEMO - ROOF
1" = 50'-0"



12 CONSTRUCTION PHASE 2a - ROOF
1" = 50'-0"

PERMIT PHASE 1 DESCRIPTION

DESCRIPTION OF WORK: REFERENCE DRAWINGS AND SPECIFICATIONS FOR COMPLETE SCOPE.

DEMOLITION:
- DECOMMISSION AND REMOVAL OF ALL POOL EQUIPMENT
- DECOMMISSION AND REMOVAL OF POOL MECHANICAL, PLUMBING AND ELECTRICAL SYSTEMS
- SAW CUT AND REMOVAL OF EXISTING SLABS AS REQUIRED FOR INSTALLATION OF NEW FOUNDATIONS AND SLAB ON GRADE
- REMOVAL OF EXISTING ROOF SYSTEM AT SECTOR B AND C
- SAW CUT NEW EXTERIOR AND INTERIOR WALL AND ROOF OPENINGS
- DECOMMISSION AND REMOVAL OF MECHANICAL, ELECTRICAL, AND PLUMBING SYSTEMS THAT ARE AT END OF LIFE AND/OR AS REQUIRED TO INSTALL NEW WORK
- REMOVAL OF EXISTING NON-STRUCTURAL PARTITIONS AND FINISHES AS REQUIRED TO INSTALL NEW WORK

FOUNDATIONS:
MICROPILE FOUNDATIONS FOR NEW STEEL STRUCTURE.

STRUCTURE:
THE STRUCTURAL SCOPE OF THE BUILDING RENOVATION UNDER THIS PERMIT INCLUDES THE MAJOR SCOPE ELEMENTS OUTLINED BELOW.
- NEW CONCERT WALL OPENINGS ON GUIDELINES 1 AND E.
- CONCRETE INFILL OF EXISTING WALL OPENINGS ON GRIDLINE E.
- NEW SHOTCRETE SHEAR WALLS AND DRAG STRUT ELEMENTS ON GRIDLINE 1.
- INFILL OF EXISTING SWIMMING POOLS AT LEVEL 1.
- NEW SECOND FLOOR STRUCTURE BETWEEN GRIDLINES E AND I.
- NEW LEVEL3/ROOF ELEVATOR AND SKYLIGHT OPENINGS BETWEEN GRIDLINES E AND I, AND ROOF DIAPHRAGM STRENGTHENING AROUND OPENINGS.
- NEW MECHANICAL UNIT SUPPORT ON GYMNASIUM ROOF.
- NEW ROOF TIE-OFF ANCHORS.
- VOLUNTARY SEISMIC UPGRADE OF EXTERIOR BRICK VENEER ON GRIDLINES A, 1, I, AND 5.
- SEISMIC STRENGTHENING OF EXISTING STRUCTURE WHERE REQUIRED BY CODE DUE TO INCREASE OF MORE THAN 10% IN SEISMIC DEMAND/CAPACITY RATIO OF INDIVIDUAL ELEMENTS.
- GRAVITY LOAD INCREASE ON EXISTING COLUMNS AND FOUNDATIONS DOES NOT EXCEED 5%.

ADDITIONAL WORK:
- NEW OPEN STAIR IN SECTOR C
- NEW GUARDRAILS AT FLOOR SLAB OPENINGS IN SECTOR C
- NEW GUARDRAILS AND HANDRAILS AT EXISTING STAIRS 1 AND 5.
- REROUTE OF EXISTING WATER LINES IN BASEMENT TO ALLOW FOR DEMOLITION WORK AT ELEVATOR (FUTURE PERMIT)

PERMIT PHASE 2 DESCRIPTION (FOR REFERENCE)

DESCRIPTION OF WORK: REFERENCE DRAWINGS AND SPECIFICATIONS FOR COMPLETE SCOPE.

ARCHITECTURAL:
- NEW CLASSROOM SPACES AND RESTROOMS IN SECTOR C LEVEL 1 AND 2
- NEW EXTERIOR WINDOWS AND FINISHES IN SECTOR B AND C
- NEW STORAGE ROOM AND MECHANICAL ROOM IN SECTOR C BASEMENT LEVEL
- RENOVATED LOCKER ROOMS IN SECTOR B LEVEL 1
- RENOVATED CLASSROOM SPACES IN SECTOR B LEVEL 1
- NEW ROOFING SYSTEM IN SECTOR B AND C.
- NEW SKYLIGHT IN SECTOR C
- NEW ELEVATOR IN SECTOR C
- NEW EAST AND WEST ENTRY VESTIBULE IN SECTOR C AT LEVELS 1 AND 2

MECHANICAL, ELECTRICAL, PLUMBING, AND LOW VOLTAGE:
- NEW MECHANICAL, ELECTRICAL, PLUMBING AND LOW VOLTAGE SYSTEMS TO SUPPORT NEW SPACES
- NEW ROOFTOP PV PANELS
- NEW ROOF DRAIN AND OVERFLOW DRAINS AT SECTOR B AND C ROOF

FIRE ALARM AND SUPPRESSION SYTEM:
- EXTEND EXISTING FIRE ALARM AND SUPPRESSION SYSTEMS TO ACCOMODATE NEW WORK (SEPARATE PERMIT)

SITE WORK:
- NEW ACCESSIBLE SIDEWALK FROM WEST ENTRY OF LEVEL 1 OF SECTOR C TO EXISTING SIDEWALK
- NEW EXTERIOR PLANTINGS AND IRRIGATION SYSTEM

CONSTRUCTION PHASE 1 DESCRIPTION

ESTIMATED DURATION:

07/08/2024 - 11/27/2024

DESCRIPTION OF WORK:

NOTE: SEE TEMPORARY CONDITIONS/CONSTRUCTION SEQUENCE ON GENERAL STRUCTURAL NOTES.

DEMOLITION (SECTOR C):
- DECOMMISSION AND REMOVAL OF ALL POOL EQUIPMENT
- DECOMMISSION AND REMOVAL OF POOL MECHANICAL, PLUMBING AND ELECTRICAL SYSTEMS
- SAW CUT AND REMOVAL OF EXISTING SLABS AS REQUIRED FOR INSTALLATION OF NEW FOUNDATIONS AND SLAB ON GRADE
- REMOVAL OF EXISTING OBSERVATION DECK AND ASSOCIATED COMPONENTS

FOUNDATIONS (SECTOR C):
- INSTALLATION OF MICROPILE FOUNDATIONS FOR NEW STEEL STRUCTURE

CONSTRUCTION PHASE 2a DESCRIPTION

ESTIMATED DURATION:

11/27/2024 - 12/30/2025

DESCRIPTION OF WORK:

NOTE: SEE TEMPORARY CONDITIONS/CONSTRUCTION SEQUENCE ON GENERAL STRUCTURAL NOTES.

DEMOLITION (SECTOR C):
- DEMOLITION OF EXISTING ROOFING
- SAW-CUT PRECAST CONCRETE CHANNELS FOR ELEVATOR OVERRUN AND SKYLIGHT
- SAW-CUT NEW WALL OPENINGS

DEMOLITION (SECTOR B):
- DEMOLITION OF EXISTING LOCKER ROOM AND CLASSROOM SPACES AND ASSOCIATED MECHANICAL, ELECTRICAL, AND PLUMBING SYSTEMS
- REMOVAL OF EXISTING BRICK VENEER ON WEST FACADE
- SAW-CUT NEW OPENINGS ON WEST FACADE
- DEMOLITION OF EXISTING ROOFING
- CREATE ROOF AND WALL OPENINGS FOR NEW ROOFTOP MECHANICAL EQUIPMENT AT GYMNASIUM

STRUCTURE (SECTOR C):
- INSTALL REINFORCEMENT OF EXISTING STRUCTURE FOR NEW OPENINGS
- PLACE NEW SLAB ON GRADE IN BASEMENT
- ERECT STEEL STRUCTURE
- INSTALL ROOF REINFORCEMENT
- INSTALL ELEVATOR STEEL STRUCTURE
- INSTALL NEW STAIR AND GUARDRAILS

STRUCTURE (SECTOR B):
- INSTALL REINFORCEMENT OF EXISTING STRUCTURE FOR NEW OPENINGS
- INSTALL EXTERIOR SHOTCRETE WALLS
- INFILL EXISTING STRUCTURAL WALL AND FLOOR OPENINGS
- INSTALL NEW GUARDRAILS AND HANDRAILS IN STAIRS 1 AND 5

CONSTRUCTION PHASE 2b DESCRIPTION (FOR REFERENCE)

INTERIOR BUILD OUT (SECTOR B AND C):
- INSTALL MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION SYSTEMS.
- INSTALL NEW PARTITIONS, DOORS, INTERIOR RELITES, FINISHES AND CASEWORK
- INSTALL OVERHEAD LIGHTING

EXTERIOR BUILD OUT (SECTOR B AND C):
- INSTALL EXISTING BRICK VENEER REINFORCEMENT
- INSTALL EXTERIOR FINISHES
- INSTALL EXTERIOR STOREFRONT SYSTEM
- INSTALL NEW ROOFING

SITE WORK:
- INSTALL NEW FLATWORK
- INSTALL NEW SITE LIGHTING
- INSTALL OVERFLOW DRAIN AND STORM WATER INFRASTRUCTURE
- INSTALL NEW PLANTINGS AND IRRIGATION

MECHANICAL: INSTALL NEW MECHANICAL EQUIPMENT AND ASSOCIATED DUCTWORK TO SERVICE NEW CONSTRUCTION. INCLUDES NEW AIR HANDLER UNITS AND AIR COOLED CHILLER FOR NEW CONSTRUCTION.

PLUMBING: INSTALL NEW PLUMBING FOR LOCKER ROOM FITOUT AND NEW RESTROOM SERVICE. INCLUDES NEW HEAT PUMP WATER HEATERS, ROOF DRAINS AND OVERFLOW ROOF DRAINS.

ELECTRICAL: INSTALL NEW ELECTRICAL PANELS AND ELECTRICAL DISTRIBUTION FOR NEW CONSTRUCTION. INCLUDES NEW LIGHT FIXTURES THROUGHOUT, TIE-IN TO EXISTING FIRE ALARM SYSTEM THAT WAS RECENTLY UPGRADED AND UPGRADED LIGHT FIXTURES AND CONTROLS IN THE GYMNASIUM.

FIRE PROTECTION: INSTALL NEW FIRE SPRINKLER DISTRIBUTION FOR NEW AND RENOVATED CONSTRUCTION. INSTALL/EXTEND FIRE ALARM SYSTEM FOR NEW AND RENOVATED CONSTRUCTION.

ELEVATOR: INSTALL NEW 4000# SERVICE ELEVATOR TO SERVICE BASEMENT, LEVEL 1 AND LEVEL 2.

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Date	07/10/24
Project No.	221000

Revisions

NO.	DESCRIPTION	DATE
1	Revision 2	07-10-24
2	Revision 4	08-13-24

PHASING DIAGRAMS

G0.04

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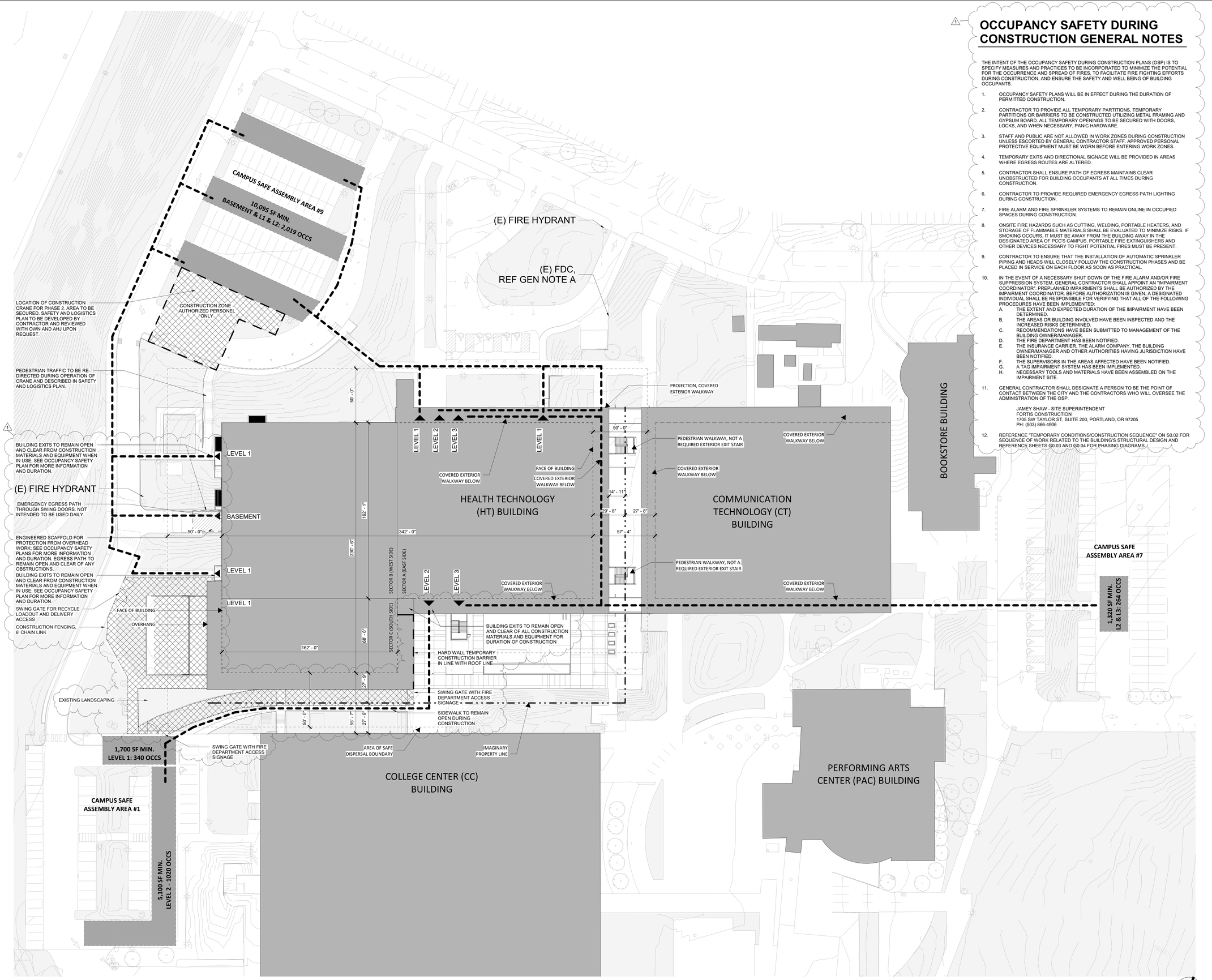
Revisions

NO.	DESCRIPTION	DATE

CITY INFORMATION AND DIRECTIVES

G0.05

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1 SITE PLAN - OCCUPANCY DURING CONSTRUCTION
1/32" = 1'-0"

1 OCCUPANCY SAFETY DURING CONSTRUCTION GENERAL NOTES

THE INTENT OF THE OCCUPANCY SAFETY DURING CONSTRUCTION PLANS (OSP) IS TO SPECIFY MEASURES AND PRACTICES TO BE INCORPORATED TO MINIMIZE THE POTENTIAL FOR THE OCCURRENCE AND SPREAD OF FIRES, TO FACILITATE FIRE FIGHTING EFFORTS DURING CONSTRUCTION, AND ENSURE THE SAFETY AND WELL BEING OF BUILDING OCCUPANTS.

1. OCCUPANCY SAFETY PLANS WILL BE IN EFFECT DURING THE DURATION OF PERMITTED CONSTRUCTION.
2. CONTRACTOR TO PROVIDE ALL TEMPORARY PARTITIONS. TEMPORARY PARTITIONS OR BARRIERS TO BE CONSTRUCTED UTILIZING METAL FRAMING AND GYPSUM BOARD. ALL TEMPORARY OPENINGS TO BE SECURED WITH DOORS, LOCKS, AND WHEN NECESSARY, PANIC HARDWARE.
3. STAFF AND PUBLIC ARE NOT ALLOWED IN WORK ZONES DURING CONSTRUCTION UNLESS ESCORTED BY GENERAL CONTRACTOR STAFF. APPROVED PERSONAL PROTECTIVE EQUIPMENT MUST BE WORN BEFORE ENTERING WORK ZONES.
4. TEMPORARY EXITS AND DIRECTIONAL SIGNAGE WILL BE PROVIDED IN AREAS WHERE EGRESS ROUTES ARE ALTERED.
5. CONTRACTOR SHALL ENSURE PATH OF EGRESS MAINTAINS CLEAR UNOBSTRUCTED FOR BUILDING OCCUPANTS AT ALL TIMES DURING CONSTRUCTION.
6. CONTRACTOR TO PROVIDE REQUIRED EMERGENCY EGRESS PATH LIGHTING DURING CONSTRUCTION.
7. FIRE ALARM AND FIRE SPRINKLER SYSTEMS TO REMAIN ONLINE IN OCCUPIED SPACES DURING CONSTRUCTION.
8. ONSITE FIRE HAZARDS SUCH AS CUTTING, WELDING, PORTABLE HEATERS, AND STORAGE OF FLAMMABLE MATERIALS SHALL BE EVALUATED TO MINIMIZE RISKS. IF SMOKING OCCURS, IT MUST BE AWAY FROM THE BUILDING AWAY IN THE DESIGNATED AREA OF PCC'S CAMPUS. PORTABLE FIRE EXTINGUISHERS AND OTHER DEVICES NECESSARY TO FIGHT POTENTIAL FIRES MUST BE PRESENT.
9. CONTRACTOR TO ENSURE THAT THE INSTALLATION OF AUTOMATIC SPRINKLER PIPING AND HEADS WILL CLOSELY FOLLOW THE CONSTRUCTION PHASES AND BE PLACED IN SERVICE ON EACH FLOOR AS SOON AS PRACTICAL.
10. IN THE EVENT OF A NECESSARY SHUT DOWN OF THE FIRE ALARM AND/OR FIRE SUPPRESSION SYSTEM, GENERAL CONTRACTOR SHALL APPOINT AN "IMPAIRMENT COORDINATOR". PREPLANNED IMPAIRMENTS SHALL BE AUTHORIZED BY THE IMPAIRMENT COORDINATOR. BEFORE AUTHORIZATION IS GIVEN, A DESIGNATED INDIVIDUAL SHALL BE RESPONSIBLE FOR VERIFYING THAT ALL OF THE FOLLOWING PROCEDURES HAVE BEEN IMPLEMENTED:
    - A. THE EXTENT AND EXPECTED DURATION OF THE IMPAIRMENT HAVE BEEN DETERMINED.
    - B. THE AREAS OR BUILDING INVOLVED HAVE BEEN INSPECTED AND THE INCREASED RISKS DETERMINED.
    - C. RECOMMENDATIONS HAVE BEEN SUBMITTED TO MANAGEMENT OF THE BUILDING OWNER/MANAGER.
    - D. THE FIRE DEPARTMENT HAS BEEN NOTIFIED.
    - E. THE INSURANCE CARRIER, THE ALARM COMPANY, THE BUILDING OWNER/MANAGER AND OTHER AUTHORITIES HAVING JURISDICTION HAVE BEEN NOTIFIED.
    - F. THE SUPERVISORS IN THE AREAS AFFECTED HAVE BEEN NOTIFIED.
    - G. A TAG IMPAIRMENT SYSTEM HAS BEEN IMPLEMENTED.
    - H. NECESSARY TOOLS AND MATERIALS HAVE BEEN ASSEMBLED ON THE IMPAIRMENT SITE.
11. GENERAL CONTRACTOR SHALL DESIGNATE A PERSON TO BE THE POINT OF CONTACT BETWEEN THE CITY AND THE CONTRACTORS WHO WILL OVERSEE THE ADMINISTRATION OF THE OSP.

    JAMEY SHAW - SITE SUPERINTENDENT
    FORTIS CONSTRUCTION
    1705 SW TAYLOR ST, SUITE 200, PORTLAND, OR 97205
    PH: (503) 866-4906
12. REFERENCE "TEMPORARY CONDITIONS/CONSTRUCTION SEQUENCE" ON S0.02 FOR SEQUENCE OF WORK RELATED TO THE BUILDING'S STRUCTURAL DESIGN AND REFERENCE SHEETS G0.03 AND G0.04 FOR PHASING DIAGRAMS.

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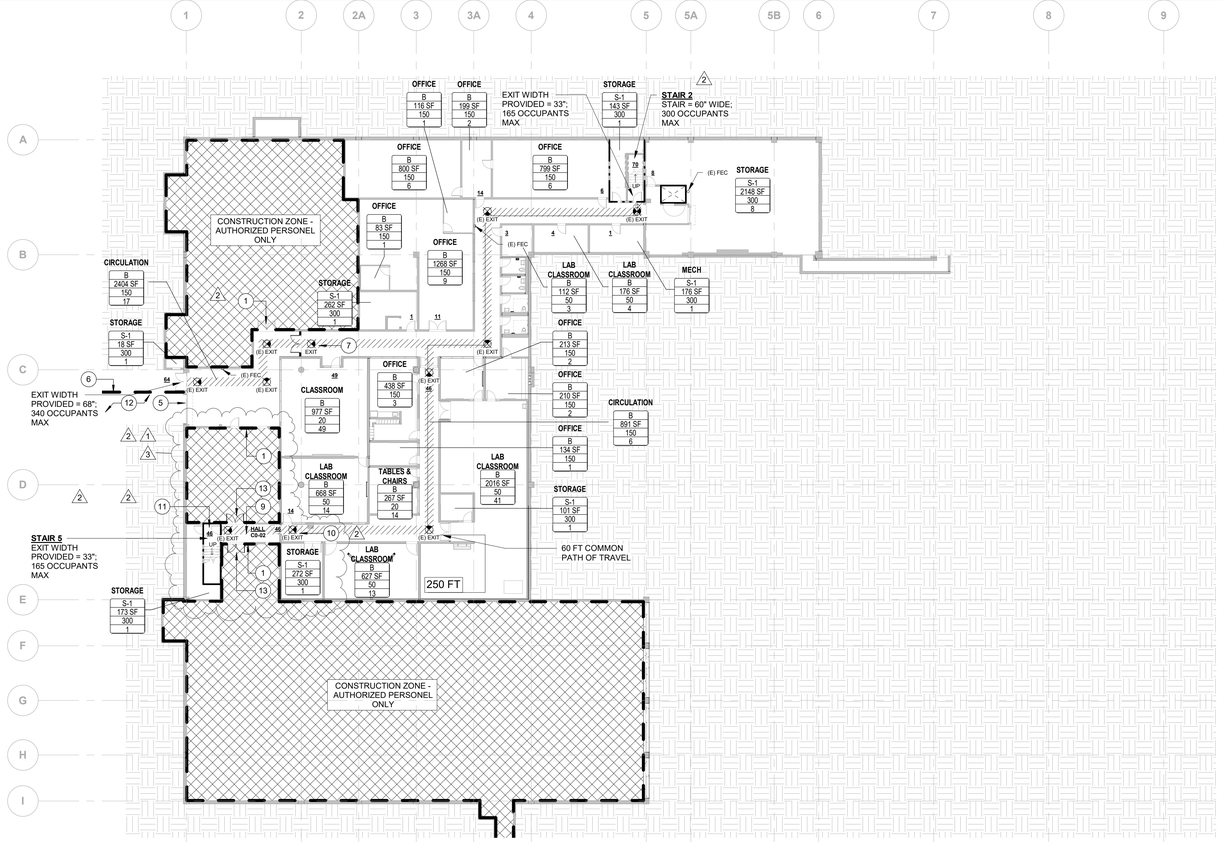
Revisions

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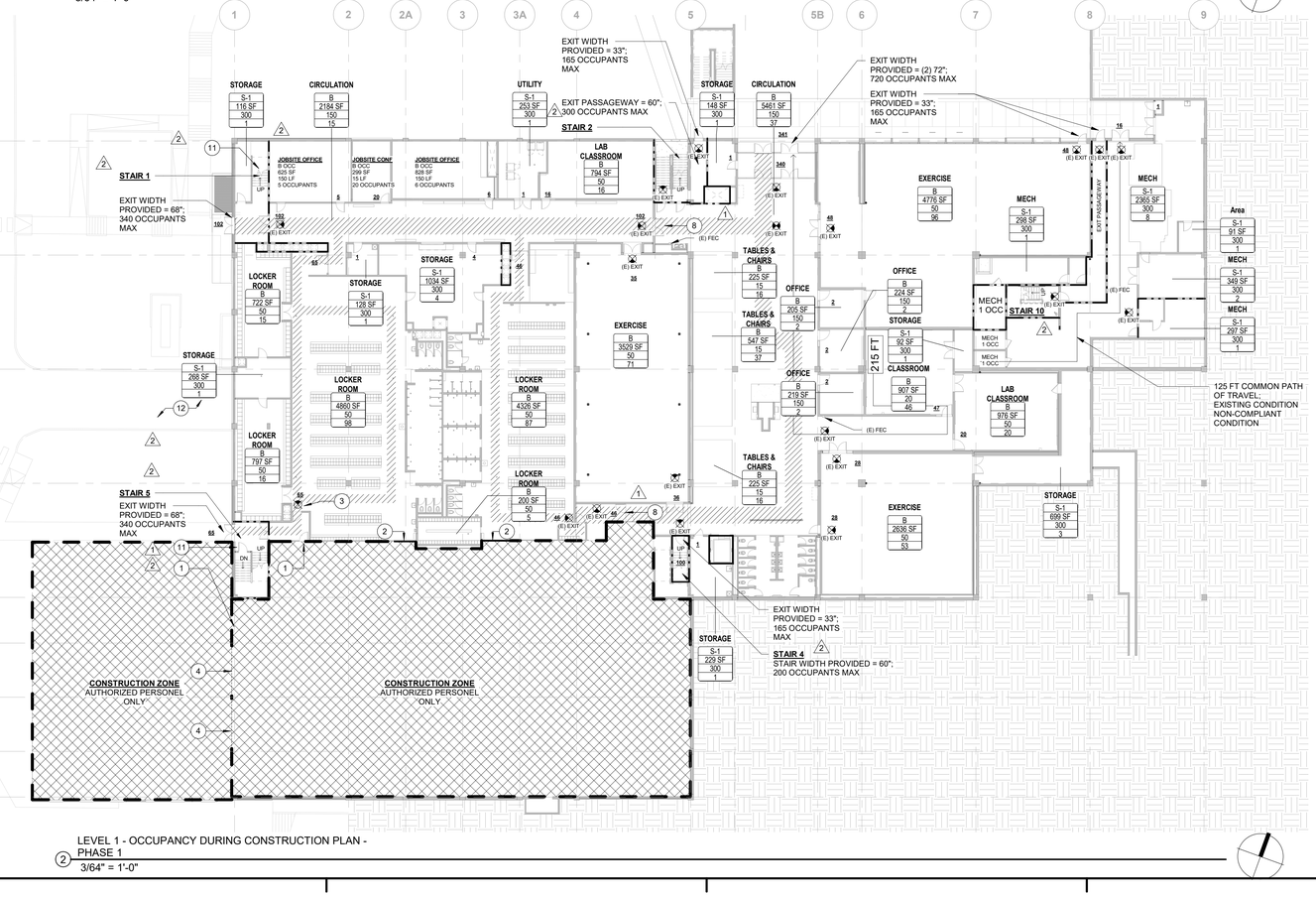
OCCUPANCY DURING CONSTRUCTION - SITE PLAN

OSP01

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1 LEVEL 0 - OCCUPANCY DURING CONSTRUCTION PLAN - PHASE 1
3/64" = 1'-0"



2 LEVEL 1 - OCCUPANCY DURING CONSTRUCTION PLAN - PHASE 1
3/64" = 1'-0"

CONSTRUCTION PHASE 1 DESCRIPTION

ESTIMATED DURATION:

07/08/2024 - 11/27/2024

DESCRIPTION OF WORK:

NOTE: SEE TEMPORARY CONDITIONS/CONSTRUCTION SEQUENCE ON GENERAL STRUCTURAL NOTES.

DEMOLITION (SECTOR C):
- DECOMMISSION AND REMOVAL OF ALL POOL EQUIPMENT
- DECOMMISSION AND REMOVAL OF POOL MECHANICAL, PLUMBING AND ELECTRICAL SYSTEMS
- SAW CUT AND REMOVAL OF EXISTING SLABS AS REQUIRED FOR INSTALLATION OF NEW FOUNDATIONS AND SLAB ON GRADE
- REMOVAL OF EXISTING OBSERVATION DECK AND ASSOCIATED COMPONENTS

FOUNDATIONS (SECTOR C):
- INSTALLATION OF MICROPILE FOUNDATIONS FOR NEW STEEL STRUCTURE

KEYNOTES - OSP02

1 EXTENT OF RENOVATION; SECURE CONSTRUCTION ZONE

2 CONSTRUCTION BARRIER.

3 ADD ILLUMINATED EXIT SIGN FOR DURATION OF CONSTRUCTION PHASE 1

4 PRIMARY MATERIAL/EQUIPMENT ENTRY

5 CONSTRUCTION ACCESS FOR BASEMENT WORK. CONSTRUCTION ENTRY THROUGH ROLL UP DOOR.

6 CONSTRUCTION FENCING TO SEPARATE OCCUPANT EGRESS PATH FROM CONSTRUCTION ENTRY. EGRESS PATHWAY TO REMAIN CLEAR AT ALL TIMES.

7 TEMPORARY CONSTRUCTION PARTITION (TYPE 1) WITH DOUBLE DOORS AND PANIC HARDWARE ON EACH DOOR. TEMPORARY ILLUMINATED EXIT SIGN AND SIGNAGE STATING "EMERGENCY EXIT ONLY"

8 SMOKE/ATMOSPHERIC SEPRATION TO BE MAINTAINED AT AREA INDICATED FOR DURATION OF CONSTRUCTION AND UNTIL FINAL SMOKE SEPARATION DOORS ARE INSTALLED OR TEMPORARY 1-HOUR RATED PARTITION (TYPE 1) AND .75 HR DOORS WITH EXIT DEVICE ARE INSTALLED.

9 WORK IN HALL CO-02 IS TO OCCUR WHEN BUILDING IS UNOCCUPIED. EGRESS PATHWAY TO REMAIN CLEAR WHEN BUILDING IS OCCUPIED.

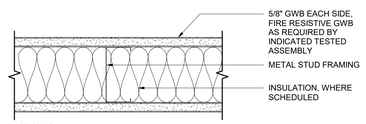
10 CONTRACTOR IS TO PROVIDE TEMPORARY SIGNAGE STATING, "EMERGENCY EXIT ONLY."

11 NO WORK IS TO OCCUR IN STAIR 1 AND 5 DURING CONSTRUCTION PHASE 1. EXIT STAIRS ARE TO REMAIN OPEN AND CLEAR OF ALL CONSTRUCTION MATERIALS AND EQUIPMENT.

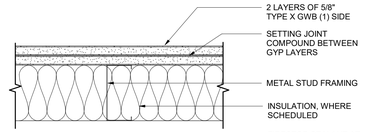
12 EXTERIOR DOOR/RAMP AND PATH OF EGRESS TO BE MAINTAINED DURING CONSTRUCTION PHASE 1. EGRESS PATH IS TO REMAIN OPEN AND CLEAR OF ALL CONSTRUCTION MATERIALS AND EQUIPMENT. NO WORK IS TO TAKE PLACE OVERHEAD ALONG PATH OF EGRESS.

13 TEMPORARY PARTITION AND DOUBLE DOOR.

TEMPORARY PARTITION ASSEMBLIES



3 TEMPORARY PARTITION - 1 HOUR RATING - TYPE 1
3" = 1'-0"



4 TEMPORARY PARTITION - 1 HOUR RATED - TYPE 2
3" = 1'-0"

BUILDING CODE LEGEND

PATH OF EGRESS TRAVEL
MINIMUM ILLUMINATION LEVEL OF 1 FC
EMERGENCY LIGHTING PROVIDED BY LIGHT FIXTURES WITH BACK UP POWER BY EMERGENCY GENERATOR

100 FT — EXIT TRAVEL DISTANCE

1 HR FIRE RATED ASSEMBLY

2 HR FIRE RATED ASSEMBLY

1 — KEY NOTE

EXIT SIGNS

FEC — SEMI RECESSED FIRE EXTINGUISHER CABINET, MOUNT B.O. FEC 2'-6" AFF

B
4824 SF
LF = 100
49 OCC
OCCUPANCY GROUP
SQUARE FOOTAGE
OCCUPANT LOAD FATOR
TOTAL NUMBER OF OCCUPANTS

(E) CONSTRUCTION SHOWN HALF TONED

(N) CONSTRUCTION

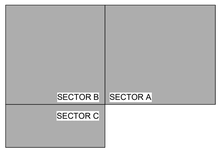
OCCUPANCY SAFETY DURING CONSTRUCTION GENERAL NOTES

THE INTENT OF THE OCCUPANCY SAFETY DURING CONSTRUCTION PLANS (OSP) IS TO SPECIFY MEASURES AND PRACTICES TO BE INCORPORATED TO MINIMIZE THE POTENTIAL FOR THE OCCURRENCE AND SPREAD OF FIRES, TO FACILITATE FIRE FIGHTING EFFORTS DURING CONSTRUCTION, AND ENSURE THE SAFETY AND WELL BEING OF BUILDING OCCUPANTS.

1. OCCUPANCY SAFETY PLANS WILL BE IN EFFECT DURING THE DURATION OF PERMITTED CONSTRUCTION.
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    - C. RECOMMENDATIONS HAVE BEEN SUBMITTED TO MANAGEMENT OF THE BUILDING OWNER/MANAGER.
    - D. THE FIRE DEPARTMENT HAS BEEN NOTIFIED.
    - E. THE INSURANCE CARRIER, THE ALARM COMPANY, THE BUILDING OWNER/MANAGER AND OTHER AUTHORITIES HAVING JURISDICTION HAVE BEEN NOTIFIED.
    - F. THE SUPERVISORS IN THE AREAS AFFECTED HAVE BEEN NOTIFIED.
    - G. A TAG IMPAIRMENT SYSTEM HAS BEEN IMPLEMENTED.
    - H. NECESSARY TOOLS AND MATERIALS HAVE BEEN ASSEMBLED ON THE IMPAIRMENT SITE.
11. GENERAL CONTRACTOR SHALL DESIGNATE A PERSON TO BE THE POINT OF CONTACT BETWEEN THE CITY AND THE CONTRACTORS WHO WILL OVERSEE THE ADMINISTRATION OF THE OSP.

    1 JAMEY SHAW - SITE SUPERINTENDENT
    2 FORTIS CONSTRUCTION
    1705 SW TAYLOR ST, SUITE 200, PORTLAND, OR 97205
    PH: (503) 866-4906
12. REFERENCE "TEMPORARY CONDITIONS/CONSTRUCTION SEQUENCE" ON S0.02 FOR SEQUENCE OF WORK RELATED TO THE BUILDING'S STRUCTURAL DESIGN AND REFERENCE SHEETS G0.03 AND G0.04 FOR PHASING DIAGRAMS.

KEY PLAN



w+b
woofter bolch architecture
107 SE Washington Street, Suite 228
Portland, OR 97214
503 724 0111

REGISTERED ARCHITECT
Miles E. Woofter
PORTLAND, OR
4872
STATE OF OREGON

City of Portland
Reviewed for Code Compliance
Date: 8/21/2024
Permit #: 24-020319-STR-01-CO

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12000 SW 49th Ave,
Portland, Oregon
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PCC SY-HT Building West Side Renovation
12000 SW 49th Ave
Portland, Oregon 97219

Date	07/10/24
Project No.	221000

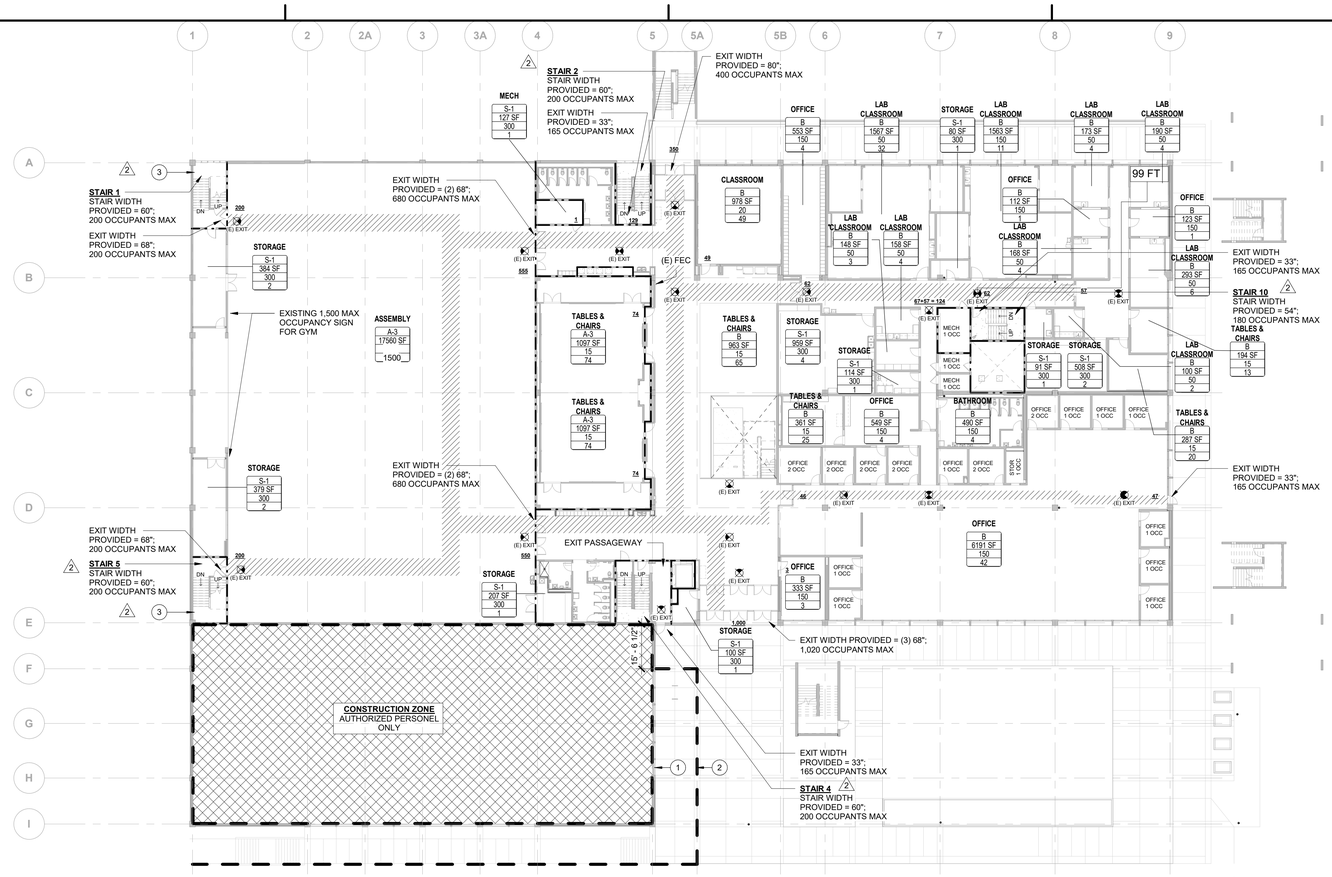
Revisions

NO.	DESCRIPTION	DATE
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2	Revision 2	07-10-24
3	Revision 4	08-13-24

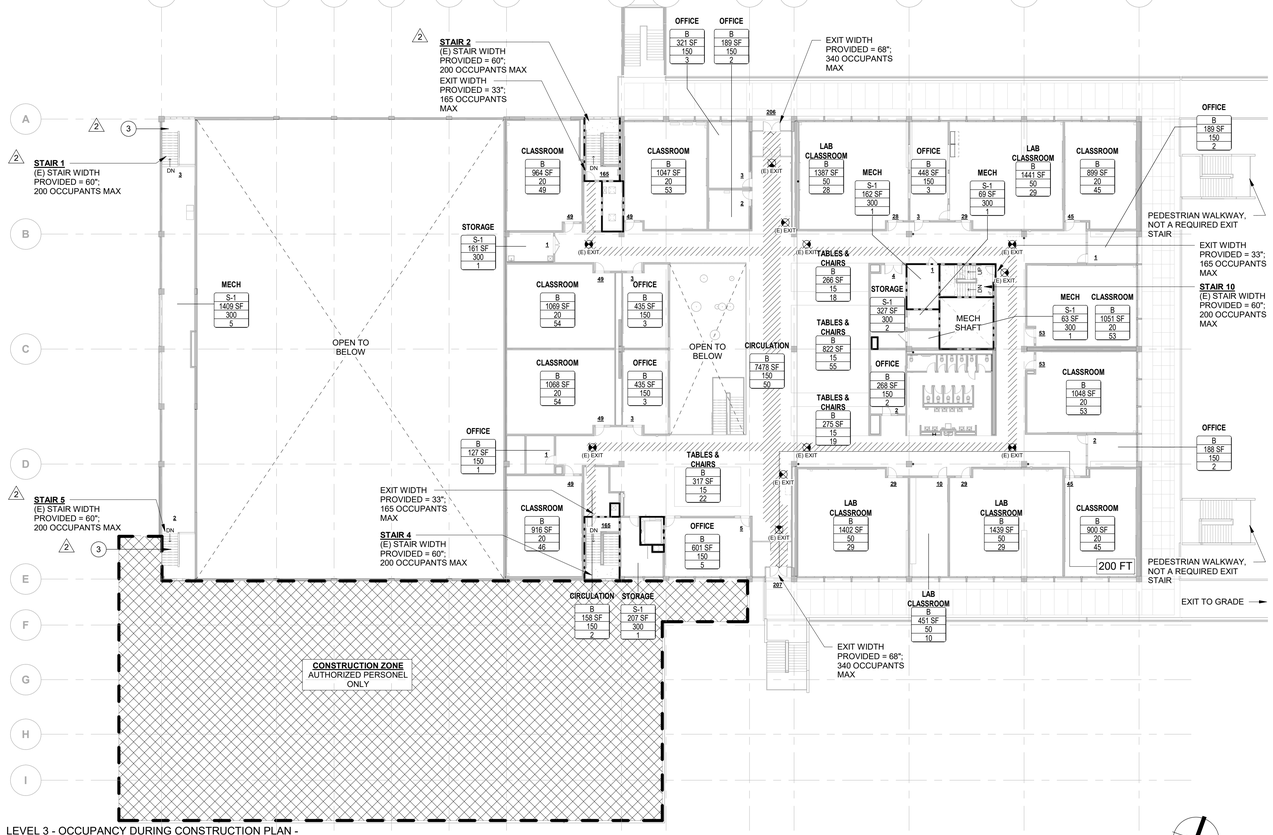
OCCUPANCY DURING CONSTRUCTION SAFETY PLANS

OSP02

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1 LEVEL 2 - OCCUPANCY DURING CONSTRUCTION PLAN - PHASE 1
3/64" = 1'-0"



2 LEVEL 3 - OCCUPANCY DURING CONSTRUCTION PLAN - PHASE 1
3/64" = 1'-0"

CONSTRUCTION PHASE 1 DESCRIPTION

ESTIMATED DURATION:

07/08/2024 - 11/27/2024

DESCRIPTION OF WORK:

NOTE: SEE TEMPORARY CONDITIONS/CONSTRUCTION SEQUENCE ON GENERAL STRUCTURAL NOTES.

DEMOLITION (SECTOR C):
- DECOMMISSION AND REMOVAL OF ALL POOL EQUIPMENT.
- DECOMMISSION AND REMOVAL OF POOL MECHANICAL, PLUMBING AND ELECTRICAL SYSTEMS
- SAW CUT AND REMOVAL OF EXISTING SLABS AS REQUIRED FOR INSTALLATION OF NEW FOUNDATIONS AND SLAB ON GRADE
- REMOVAL OF EXISTING OBSERVATION DECK AND ASSOCIATED COMPONENTS

FOUNDATIONS (SECTOR C):
- INSTALLATION OF MICROPILE FOUNDATIONS FOR NEW STEEL STRUCTURE

KEYNOTES - OSP03

1 EXTENT OF RENOVATION; SECURE CONSTRUCTION ZONE

2 TEMPORARY CONSTRUCTION FENCING; MAINTAIN FENCE LINE AROUND PERIMETER OF SECTOR C. FENCE DISTANCE FROM BUILDING DEPENDENT UPON OVERHEAD ACTIVITIES.

3 NO WORK IS TO OCCUR IN STAIR 1 AND 5 DURING CONSTRUCTION PHASE 1. EXIT STAIRS ARE TO REMAIN OPEN AND CLEAR OF ALL CONSTRUCTION MATERIALS AND EQUIPMENT.

BUILDING CODE LEGEND

- PATH OF EGRESS TRAVEL
  MINIMUM ILLUMINATION LEVEL OF 1 FC
  EMERGENCY LIGHTING PROVIDED BY LIGHT FIXTURES WITH BACK UP POWER BY EMERGENCY GENERATOR
- 100 FT — EXIT TRAVEL DISTANCE
- 1 HR FIRE RATED ASSEMBLY
- 2 HR FIRE RATED ASSEMBLY
- 1 — KEY NOTE
- EXIT SIGNS
- FEC — SEMI RECESSED FIRE EXTINGUISHER CABINET, MOUNT B.O. FEC 2'-6" AFF
- B / 4824 SF / LF = 100 / 49 OCC — OCCUPANCY GROUP; SQUARE FOOTAGE; OCCUPANT LOAD FATOR; TOTAL NUMBER OF OCCUPANTS
- (E) CONSTRUCTION SHOWN HALF TONED
- (N) CONSTRUCTION

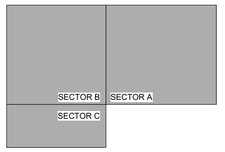
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KEY PLAN



woofter bolch architecture
107 SE Washington Street, Suite 228
Portland, OR 97214
503 724 0111

REGISTERED ARCHITECT
Miles E. Woofter
PORTLAND, OR
4872
STATE OF OREGON

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12000 SW 49th Ave.
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City of Portland
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Date: 8/21/2024
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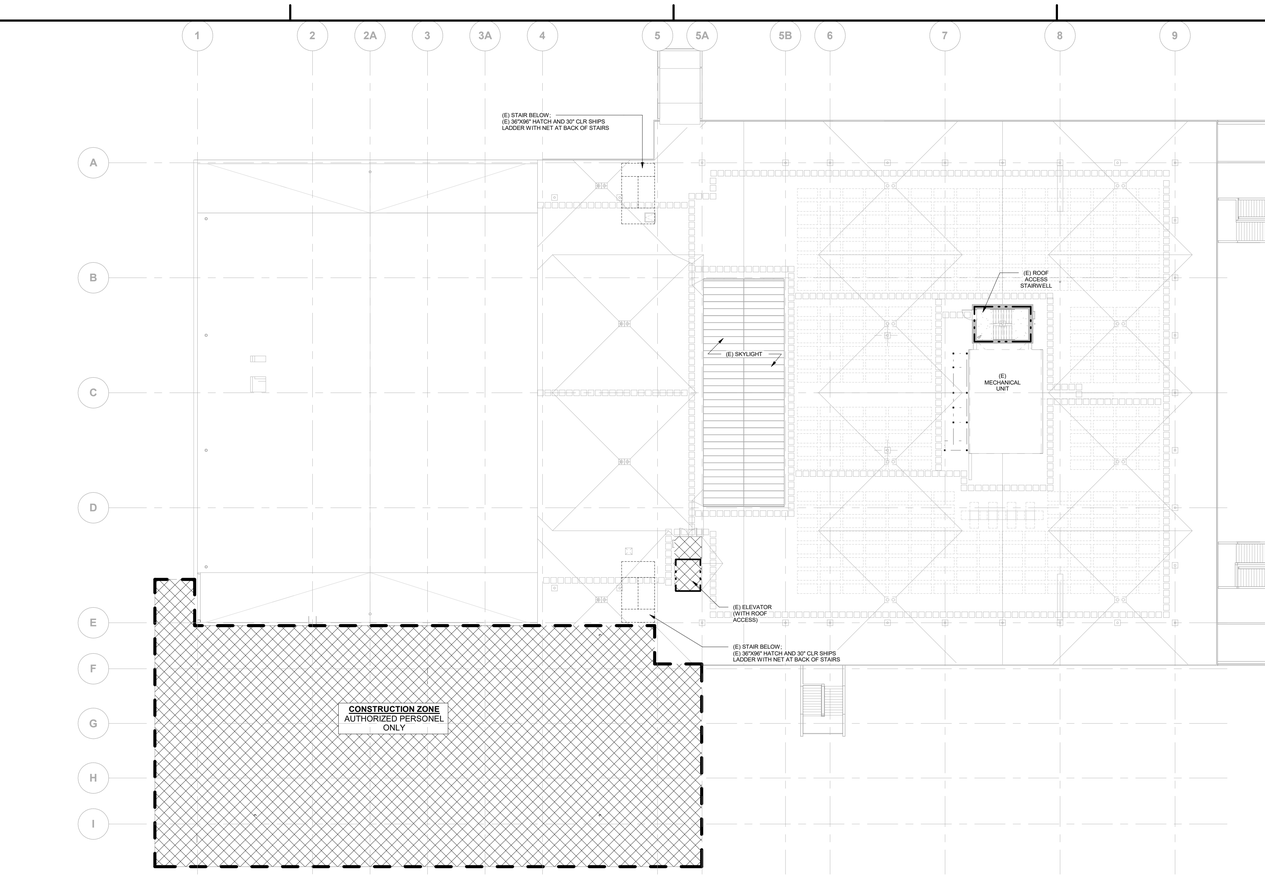
Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24
2	Revision 2	07-10-24
3	Revision 4	08-13-24

3 OCCUPANCY DURING CONSTRUCTION SAFETY PLANS

OSP03

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1 ROOF PLAN - OCCUPANCY DURING CONSTRUCTION - PHASE 1
3/64" = 1'-0"

CONSTRUCTION PHASE 1 DESCRIPTION

ESTIMATED DURATION:

07/08/2024 - 11/27/2024

DESCRIPTION OF WORK:

NOTE: SEE TEMPORARY CONDITIONS/CONSTRUCTION SEQUENCE ON GENERAL STRUCTURAL NOTES.

DEMOLITION (SECTOR C):
- DECOMMISSION AND REMOVAL OF ALL POOL EQUIPMENT
- DECOMMISSION AND REMOVAL OF POOL MECHANICAL, PLUMBING AND ELECTRICAL SYSTEMS
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- REMOVAL OF EXISTING OBSERVATION DECK AND ASSOCIATED COMPONENTS

FOUNDATIONS (SECTOR C):
- INSTALLATION OF MICROPILE FOUNDATIONS FOR NEW STEEL STRUCTURE

KEYNOTES - OSP04

BUILDING CODE LEGEND

PATH OF EGRESS TRAVEL
MINIMUM ILLUMINATION LEVEL OF 1 FC
EMERGENCY LIGHTING PROVIDED BY LIGHT FIXTURES WITH BACK UP POWER BY EMERGENCY GENERATOR

100 FT — EXIT TRAVEL DISTANCE

1 HR FIRE RATED ASSEMBLY

2 HR FIRE RATED ASSEMBLY

1 — KEY NOTE

EXIT SIGNS

FEC — SEMI RECESSED FIRE EXTINGUISHER CABINET, MOUNT B.O. FEC 2'-6" AFF

B
4824 SF
LF = 100
49 OCC
OCCUPANCY GROUP
SQUARE FOOTAGE
OCCUPANT LOAD FATOR
TOTAL NUMBER OF OCCUPANTS

(E) CONSTRUCTION SHOWN HALF TONED

(N) CONSTRUCTION

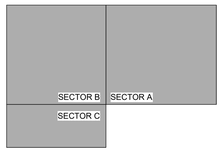
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KEY PLAN



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Portland, OR 97214
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Date 07/10/24

Project No. 221000

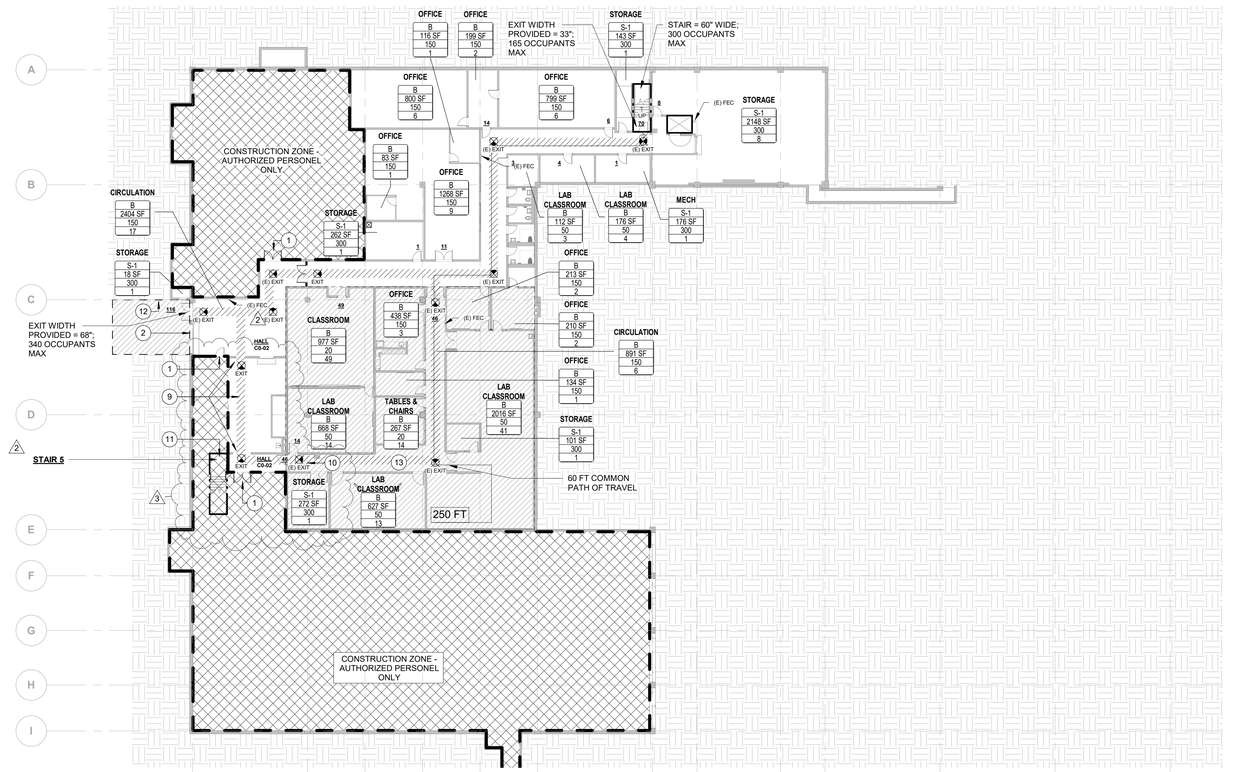
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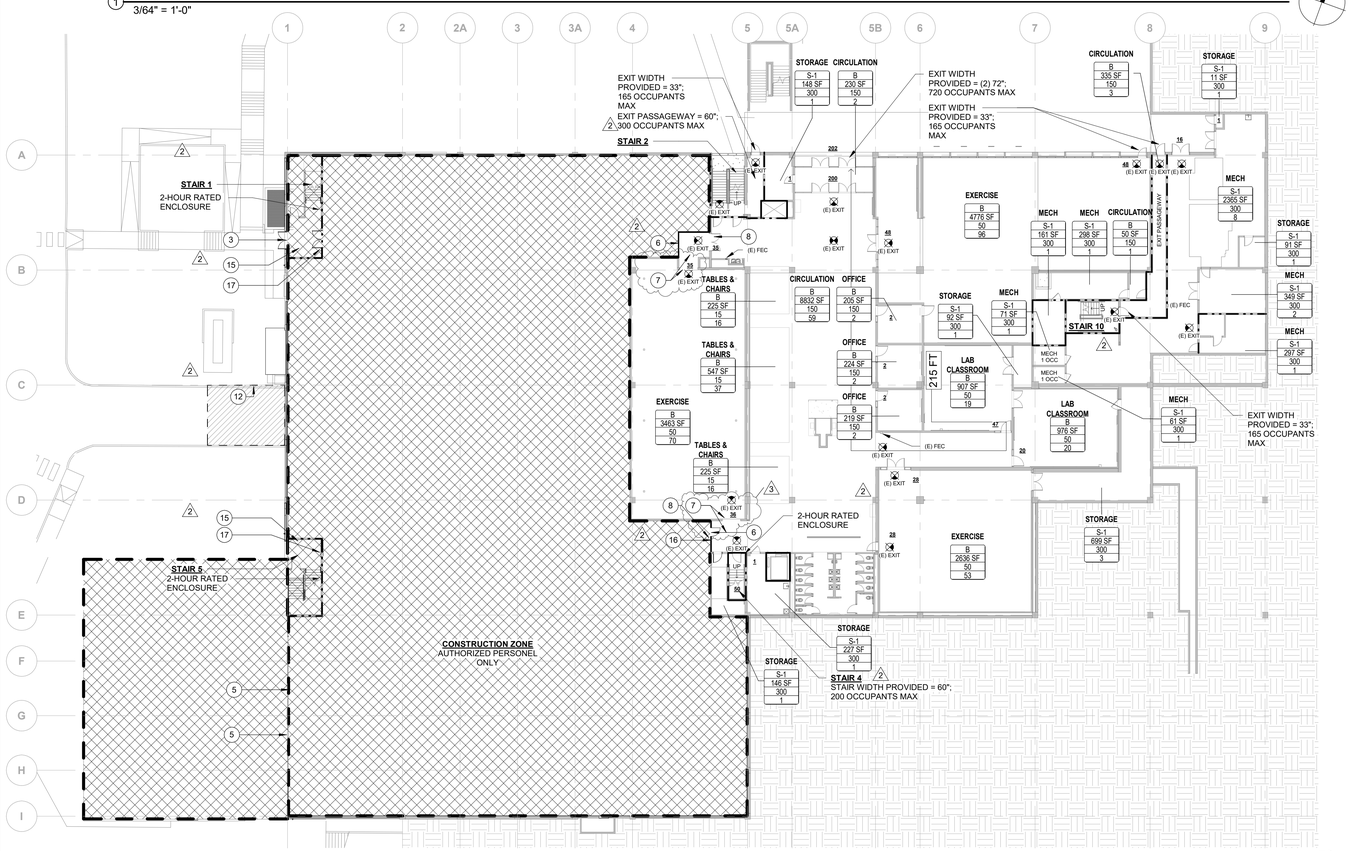
OCCUPANCY DURING CONSTRUCTION SAFETY PLAN

OSP04

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LEVEL 0 - OCCUPANCY DURING CONSTRUCTION PLAN - PHASE 2a
1 3/64" = 1'-0"



LEVEL 1 - OCCUPANCY DURING CONSTRUCTION PLAN - PHASE 2a
2 3/64" = 1'-0"

CONSTRUCTION PHASE 2a DESCRIPTION

ESTIMATED DURATION:

11/27/2024 - 12/30/2025

DESCRIPTION OF WORK:

NOTE: SEE TEMPORARY CONDITIONS/CONSTRUCTION SEQUENCE ON GENERAL STRUCTURAL NOTES.

DEMOLITION (SECTOR C):
- DEMOLITION OF EXISTING ROOFING
- SAW-CUT PRECAST CONCRETE CHANELS FOR ELEVATOR OVERRUN AND SKYLIGHT
- SAW-CUT NEW WALL OPENINGS

DEMOLITION (SECTOR B):
- DEMOLITION OF EXISTING LOCKER ROOM AND CLASSROOM SPACES AND ASSOCIATED MECHANICAL, ELECTRICAL, AND PLUMBING SYSTEMS
- REMOVAL OF EXISTING BRICK VENEER ON WEST FACADE
- SAW-CUT NEW OPENINGS ON WEST FACADE
- DEMOLITION OF EXISTING ROOFING
- CREATE ROOF AND WALL OPENINGS FOR NEW ROOFTOP MECHANICAL EQUIPMENT AT GYMASIUM

STRUCTURE (SECTOR C):
- INSTALL REINFORCEMENT OF EXISTING STRUCTURE FOR NEW OPENINGS
- PLACE NEW SLAB ON GRADE IN BASEMENT
- ERECT STEEL STRUCTURE
- INSTALL ROOF REINFORCEMENT
- INSTALL ELEVATOR STEEL STRUCTURE
- INSTALL NEW STAIR AND GUARDRAILS

STRUCTURE (SECTOR B):
- INSTALL REINFORCEMENT OF EXISTING STRUCTURE FOR NEW OPENINGS
- INSTALL EXTERIOR SHOTCRETE WALLS
- INFILL EXISTING STRUCTURAL WALL AND FLOOR OPENINGS
- INSTALL NEW GUARDRAILS AND HANDRAILS IN STAIRS 1 AND 5

KEYNOTES - OSP05

1 EXTENT OF RENOVATION; SECURE CONSTRUCTION ZONE

2 CONSTRUCTION ACCESS FOR BASEMENT WORK

3 PRIMARY CONSTRUCTION ENTRANCE; CONSTRUCTION ZONE IS TO BE SECURED AND TO ALWAYS ALLOW EGRESS IN THE EVENT OF AN EMERGENCY.

5 PRIMARY MATERIAL/EQUIPMENT ENTRY

6 TEMPORARY CONSTRUCTION PARTITION; SECURE CONSTRUCTION ZONE

7 REMOVAL OF EXISTING VINYL COMPOSITE FLOOR TILE AND EXISTING DOUBLE DOORS TO OCCUR WHEN BUILDING IS UNOCCUPIED. SPACE TO REMAIN OPEN WITHOUT DOORS UNTIL THE DOORS ARE INSTALLED UNDER THE MAIN PERMIT. SEE DTL 3/OSP05 FOR FLOOR TRANSITION DETAIL. EGRESS PATHWAY TO REMAIN CLEAR WHEN BUILDING IS OCCUPIED.

8 SMOKE/ATMOSPHERIC SEPRATION TO BE MAINTAINED AT AREA INDICATED FOR DURATION OF CONSTRUCTION AND UNTIL FINAL SMOKE SEPARATION DOORS ARE INSTALLED.

9 STORAGE ROOM IS TO BE EMPTIED OF ALL STORAGE MATERIALS AND ROOM IS TO BE CLEAR OF ALL CONSTRUCTION MATERIALS AND EQUIPMENT. CONTRACTOR IS TO PROVIDE (2) TEMPORARY ILLUMINATED EXIT SIGNS AND SIGNAGE DIRECTING BUILDING OCCUPANTS OF NEW EGRESS PATHWAY. TEMPORARY DOOR FROM STORAGE 01 TO HALL CO-2 IS TO BE REMOVED AND EXISTING DOOR FROM STORAGE 01 TO CORRIDOR CO-1 IS TO BE REMOVED FOR DURATION OF CONSTRUCTION PHASE 2.

10 CONTRACTOR IS TO PROVIDE TEMPORARY SIGNAGE STATING, "EMERGENCY EXIT ONLY."

11 STAIR IS TO BE CLOSED FOR CONSTRUCTION. CONTRACTOR TO LOCK DOOR AND PROVIDE SIGNAGE.

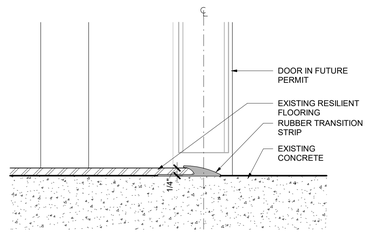
12 ENGINEERED SCAFFOLD FOR PROTECTION FROM OVERHEAD WORK. SCAFFOLD WILL BE IN PLACE WHILE OVERHEAD WORK IS TAKING PLACE. ANTICIPATED SCAFFOLD DURATION:
01/09/2025 – 02/21/2025: STRUCTURAL REINFORCEMENT AND DEMOLITION
05/12/2025 – 06/12/2025: INSTALLATION OF STOREFRONT

13 ACCESS TO MEDICAL IMAGING SUITE FOR OVERHEAD PLUMBING WORK IS TO BE COORDINATED WITH OWNER PRIOR TO START OF WORK. SPACE IS TO BE UNOCCUPIED WHILE WORK OCCURS AND EGRESS PATH IS TO REMAIN OPEN AND CLEAR OF ALL CONSTRUCTION MATERIALS AND EQUIPMENT.

15 ALL WORK IN STAIRS 1 AND 5 IS TO OCCUR DURING CONSTRUCTION PHASE 2 WHEN LEVEL 1 SECTOR B, LEVEL 2, SECTOR B, AND LEVEL 3 SECTOR B ARE CLOSED TO BUILDING OCCUPANTS AND BUILDING OCCUPANTS DO NOT REQUIRE ACCESS TO STAIRS 1 AND 5 FOR EGRESS PURPOSES.

16 TEMPORARY 1-HOUR RATED PARTITION (TYPE-1) AND 1-HOUR RATED DOOR. PARTITION TO BE FULL HEIGHT FROM FLOOR TO STRUCTURE ABOVE AND BUILT IN ACCORDANCE WITH THE TESTED ASSEMBLY. SEE TEMPORARY RATED PARTITIONS DETAILS. PARTITION TO REMAIN IN PLACE UNTIL PERMENANT PARTITION AND DOORS HAVE BEEN INSTALLED. SECURE CONSTRUCTION ZONE.

17 CONTRACTOR TO SEQUENCE WORK IMPACTING RATED WALLS/ENCLOSURES SUCH THAT THE TIME BEWTEEN DEMOLITION/REMOVAL OF COMPONETS OF THE RATED ENCLOSURE AND THE REPLACEMENT OF THE COMPONENTS ARE MINIMIZED.



3 FLOOR TRANSITION - (E) RESILIENT FLOORING TO CONC.
6" = 1'-0"

BUILDING CODE LEGEND

PATH OF EGRESS TRAVEL
MINIMUM ILLUMINATION LEVEL OF 1 FC
EMERGENCY LIGHTING PROVIDED BY LIGHT FIXTURES WITH BACK UP POWER BY EMERGENCY GENERATOR

100 FT — EXIT TRAVEL DISTANCE

1 HR FIRE RATED ASSEMBLY

2 HR FIRE RATED ASSEMBLY

1 — KEY NOTE

EXIT SIGNS

FEC — SEMI RECESSED FIRE EXTINGUISHER CABINET, MOUNT B.O. FEC 2'-6" AFF

B
4824 SF
LF = 100
49 OCC
OCCUPANCY GROUP
SQUARE FOOTAGE
OCCUPANT LOAD FATOR
TOTAL NUMBER OF OCCUPANTS

(E) CONSTRUCTION SHOWN HALF TONED

(N) CONSTRUCTION

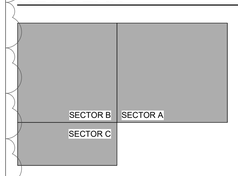
OCCUPANCY SAFETY DURING CONSTRUCTION GENERAL NOTES

THE INTENT OF THE OCCUPANCY SAFETY DURING CONSTRUCTION PLANS (OSP) IS TO SPECIFY MEASURES AND PRACTICES TO BE INCORPORATED TO MINIMIZE THE POTENTIAL FOR THE OCCURRENCE AND SPREAD OF FIRES, TO FACILITATE FIRE FIGHTING EFFORTS DURING CONSTRUCTION, AND ENSURE THE SAFETY AND WELL BEING OF BUILDING OCCUPANTS.

1. OCCUPANCY SAFETY PLANS WILL BE IN EFFECT DURING THE DURATION OF PERMITTED CONSTRUCTION.
2. CONTRACTOR TO PROVIDE ALL TEMPORARY PARTITIONS, TEMPORARY PARTITIONS OR BARRIERS TO BE CONSTRUCTED UTILIZING METAL FRAMING AND GYPSUM BOARD. ALL TEMPORARY OPENINGS TO BE SECURED WITH DOORS, LOCKS, AND WHEN NECESSARY, PANIC HARDWARE.TEMPORARY DOORS TO BE 3'-0" X 6'-8" MIN.
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7. FIRE ALARM AND FIRE SPRINKLER SYSTEMS TO REMAIN OPERATIONAL IN UNOCCUPIED SPACES DURING CONSTRUCTION.
8. ONSITE FIRE HAZARDS SUCH AS CUTTING, WELDING, PORTABLE HEATERS, AND STORAGE OF FLAMMABLE MATERIALS SHALL BE EVALUATED TO MINIMIZE RISKS OF SMOKING OCCURS, IT MUST BE AWAY FROM THE BUILDING AWAY IN THE DESIGNATED AREA OF PCC'S CAMPUS. PORTABLE FIRE EXTINGUISHERS AND OTHER DEVICES NECESSARY TO FIGHT POTENTIAL FIRES MUST BE PRESENT.
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    - C. RECOMMENDATIONS HAVE BEEN SUBMITTED TO MANAGEMENT OF THE BUILDING OWNER/MANAGER.
    - D. THE FIRE DEPARTMENT HAS BEEN NOTIFIED.
    - E. THE INSURANCE CARRIER, THE ALARM COMPANY, THE BUILDING OWNER/MANAGER AND OTHER AUTHORITIES HAVING JURISDICTION HAVE BEEN NOTIFIED.
    - F. THE SUPERVISORS IN THE AREAS AFFECTED HAVE BEEN NOTIFIED.
    - G. A TAG IMPAIRMENT SYSTEM HAS BEEN IMPLEMENTED.
    - H. NECESSARY TOOLS AND MATERIALS HAVE BEEN ASSEMBLED ON THE IMPAIRMENT SITE.
11. GENERAL CONTRACTOR SHALL DESIGNATE A PERSON TO BE THE POINT OF CONTACT BETWEEN THE CITY AND THE CONTRACTORS WHO WILL OVERSEE THE ADMINISTRATION OF THE OSP.

    JAMEY SHAW - SITE SUPERINTENDENT
    FORTIS CONSTRUCTION
    1706 SW TAYLOR ST, SUITE 200, PORTLAND, OR 97205
    PH: (503) 866-4906
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KEY PLAN



woofter bolch architecture
107 SE Washington Street, Suite 228
Portland, OR 97214
503 724 0111

REGISTERED ARCHITECT
Miles E. Woofter
PORTLAND, OR
4872
STATE OF OREGON

City of Portland
Reviewed for Code Compliance
Date: 8/21/2024
Permit #: 24-020319-STR-01-CO

Portland Community College
12000 SW 49th Ave.
Portland, Oregon
97219

PCC SY-HT Building West Side Renovation
12000 SW 49th Ave
Portland, Oregon 97219

Date 07/10/24
Project No. 221000

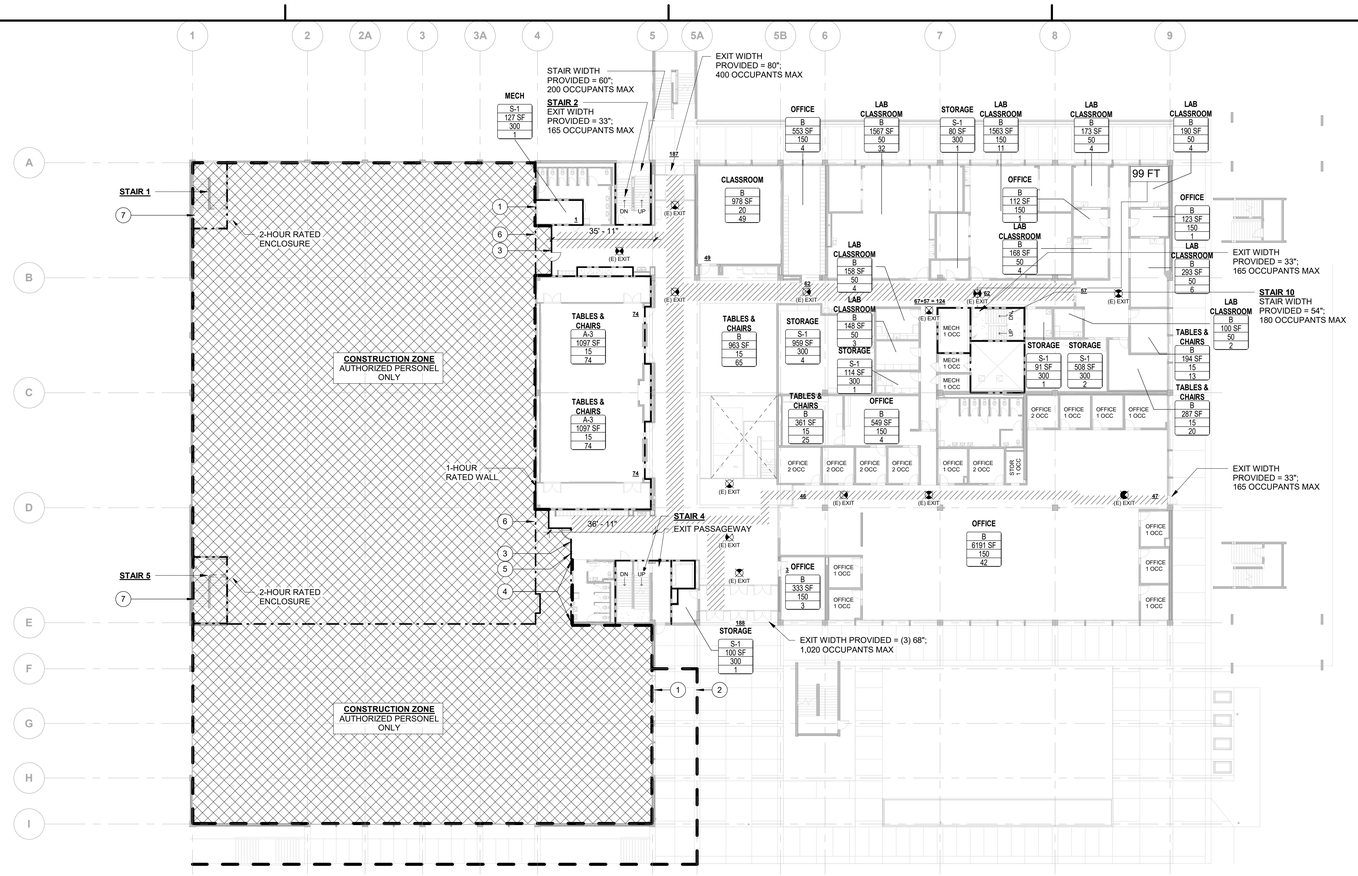
Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24
2	Revision 2	07-10-24
3	Revision 4	08-13-24

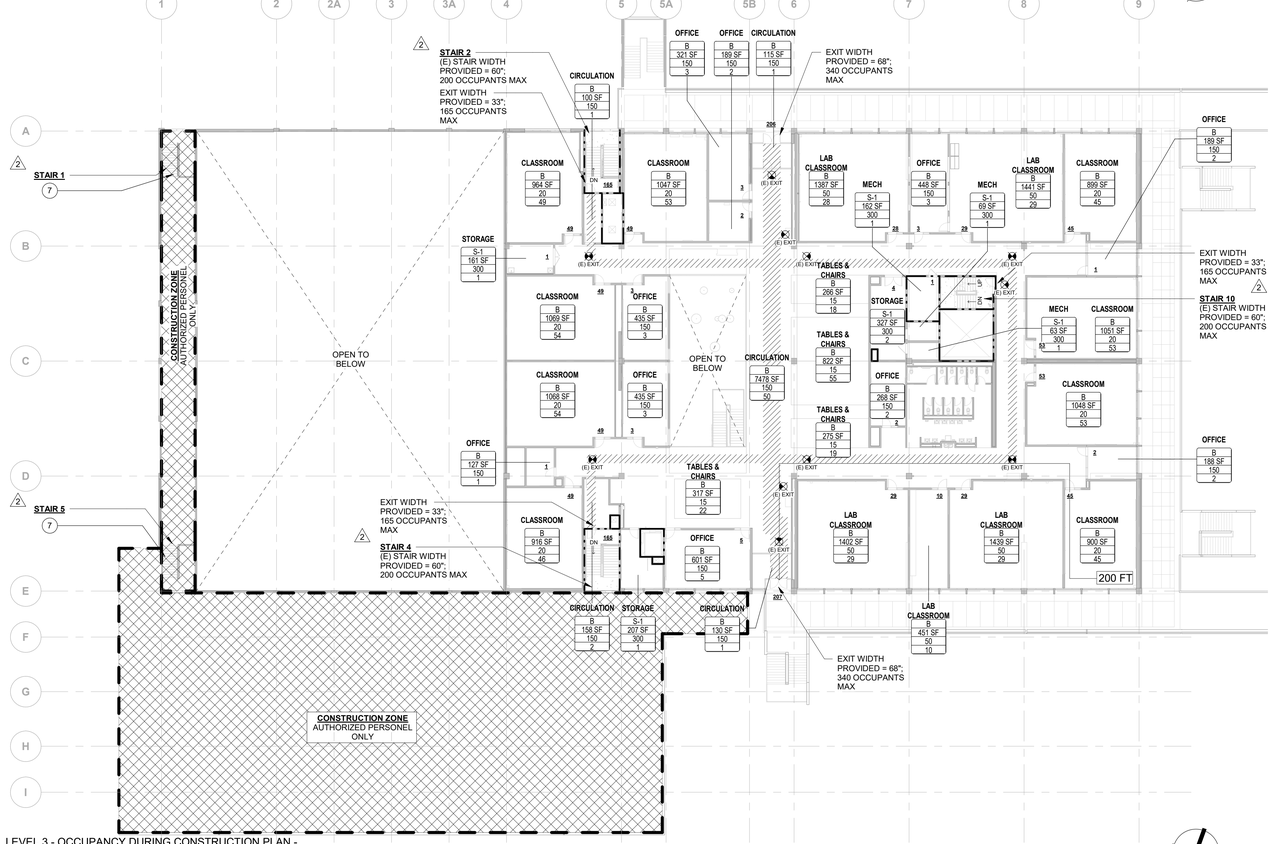
OCCUPANCY DURING CONSTRUCTION SAFETY PLANS

OSP05

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LEVEL 2 - OCCUPANCY DURING CONSTRUCTION PLAN - PHASE 2a
3/64" = 1'-0"



LEVEL 3 - OCCUPANCY DURING CONSTRUCTION PLAN - PHASE 2a
3/64" = 1'-0"

CONSTRUCTION PHASE 2a DESCRIPTION

ESTIMATED DURATION:

11/27/2024 - 12/30/2025

DESCRIPTION OF WORK:

NOTE: SEE TEMPORARY CONDITIONS/CONSTRUCTION SEQUENCE ON GENERAL STRUCTURAL NOTES.

DEMOLITION (SECTOR C):
- DEMOLITION OF EXISTING ROOFING
- SAW-CUT PRECAST CONCRETE CHANELS FOR ELEVATOR OVERRUN AND SKYLIGHT
- SAW-CUT NEW WALL OPENINGS

DEMOLITION (SECTOR B):
- DEMOLITION OF EXISTING LOCKER ROOM AND CLASSROOM SPACES AND ASSOCIATED MECHANICAL, ELECTRICAL, AND PLUMBING SYSTEMS
- REMOVAL OF EXISTING BRICK VENEER ON WEST FACADE
- SAW-CUT NEW OPENINGS ON WEST FACADE
- DEMOLITION OF EXISTING ROOFING
- CREATE ROOF AND WALL OPENINGS FOR NEW ROOFTOP MECHANICAL EQUIPMENT AT GYMASIUM

STRUCTURE (SECTOR C):
- INSTALL REINFORCEMENT OF EXISTING STRUCTURE FOR NEW OPENINGS
- PLACE NEW SLAB ON GRADE IN BASEMENT
- ERECT STEEL STRUCTURE
- INSTALL ROOF REINFORCEMENT
- INSTALL ELEVATOR STEEL STRUCTURE
- INSTALL NEW STAIR AND GUARDRAILS

STRUCTURE (SECTOR B):
- INSTALL REINFORCEMENT OF EXISTING STRUCTURE FOR NEW OPENINGS
- INSTALL EXTERIOR SHOTCRETE WALLS
- INFILL EXISTING STRUCTURAL WALL AND FLOOR OPENINGS
- INSTALL NEW GUARDRAILS AND HANDRAILS IN STAIRS 1 AND 5

KEYNOTES - OSP06

1 EXTENT OF RENOVATION; SECURE CONSTRUCTION ZONE

2 TEMPORARY CONSTRUCTION FENCING; SEE OSP SITE PLAN FOR MORE INFORMATION

3 TEMPORARY 1-HOUR RATED PARTITION (TYPE-1) AND 1-HOUR RATED DOOR. PARTITION TO BE FULL HEIGHT FROM FLOOR TO STRUCTURE ABOVE AND BUILT IN ACCORDANCE WITH THE TESTED ASSEMBLY. SEE TEMPORARY RATED PARTITIONS DETAILS. PARTITION BE INSTALLED PRIOR TO REMOVAL OF DOORS AT EAST SIDE OF GYMNASIUM AS IS TO REMAIN IN PLACE UNTIL PERMENANT PARTITION AND DOORS HAVE BEEN INSTALLED. SECURE CONSTRUCTION ZONE

4 TEMPORARY ONE SIDED 1-HOUR RATED PARTITION (TYPE-2). TEMPORARY PARTITION TO BE FULL HEIGHT FROM FLOOR TO STRUCTURE ABOVE AND BUILT IN ACCORDANCE WITH THE TESTED ASSEMBLY.

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BUILDING CODE LEGEND

PATH OF EGRESS TRAVEL
MINIMUM ILLUMINATION LEVEL OF 1 FC
EMERGENCY LIGHTING PROVIDED BY LIGHT FIXTURES WITH BACK UP POWER BY EMERGENCY GENERATOR

100 FT — EXIT TRAVEL DISTANCE

1 HR FIRE RATED ASSEMBLY

2 HR FIRE RATED ASSEMBLY

1 — KEY NOTE

EXIT SIGNS

FEC — SEMI RECESSED FIRE EXTINGUISHER CABINET, MOUNT B.O. FEC 2'-6" AFF

B
4824 SF
LF = 100
49 OCC

OCCUPANCY GROUP
SQUARE FOOTAGE
OCCUPANT LOAD FATOR
TOTAL NUMBER OF OCCUPANTS

(E) CONSTRUCTION SHOWN HALF TONED

(N) CONSTRUCTION

OCCUPANCY SAFETY DURING CONSTRUCTION GENERAL NOTES

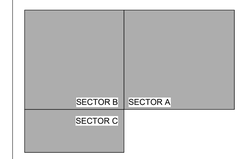
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    1705 SW TAYLOR ST, SUITE 200, PORTLAND, OR 97205
    PH: (503) 866-4906
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City of Portland
Reviewed for Code Compliance
Date: 8/21/2024
PLANS REVIEWED: 020319-STR-01-CO

KEY PLAN



OCCUPANCY DURING CONSTRUCTION SAFETY PLANS

OSP06

woofter bolch architecture
107 SE Washington Street, Suite 228
Portland, OR 97214
503 724 0111

REGISTERED ARCHITECT
Miles E. Woofter
PORTLAND, OR
4872
STATE OF OREGON

Portland Community College
12000 SW 49th Ave.
Portland, Oregon
97219

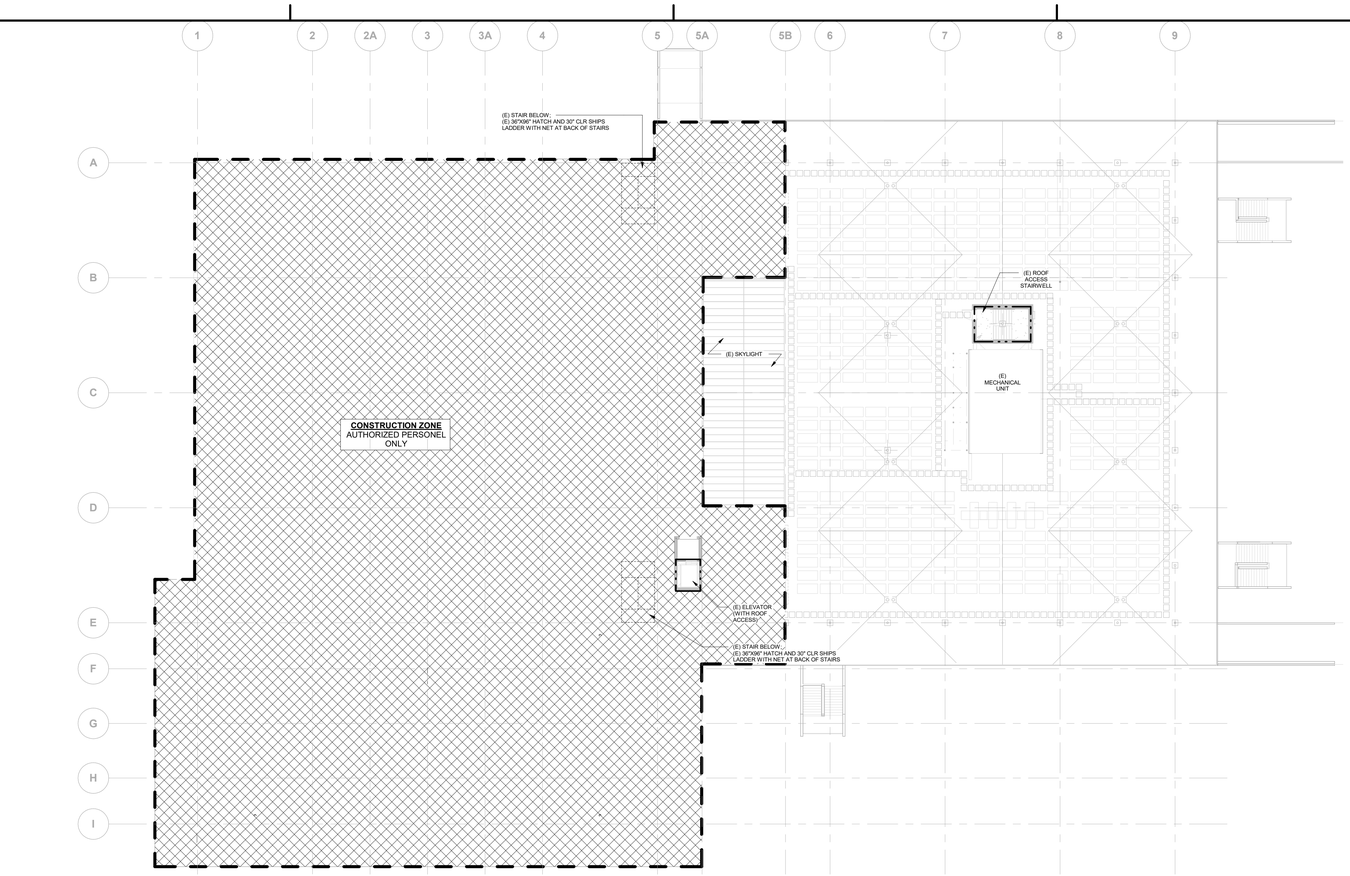
PCC SY-HT Building West Side Renovation
12000 SW 49th Ave.
Portland, Oregon 97219

Date	07/10/24
Project No.	221000

Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24
2	Revision 2	07-10-24
3	Revision 4	08-13-24

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1 ROOF PLAN - OCCUPANCY DURING CONSTRUCTION - PHASE 2a
3/64" = 1'-0"

CONSTRUCTION PHASE 2a DESCRIPTION

ESTIMATED DURATION:

11/27/2024 - 12/30/2025

DESCRIPTION OF WORK:

NOTE: SEE TEMPORARY CONDITIONS/CONSTRUCTION SEQUENCE ON GENERAL STRUCTURAL NOTES.

DEMOLITION (SECTOR C):
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KEYNOTES - OSP07

BUILDING CODE LEGEND

PATH OF EGRESS TRAVEL
MINIMUM ILLUMINATION LEVEL OF 1 FC
EMERGENCY LIGHTING PROVIDED BY LIGHT FIXTURES WITH BACK UP POWER BY EMERGENCY GENERATOR

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2 HR FIRE RATED ASSEMBLY

1 — KEY NOTE

EXIT SIGNS

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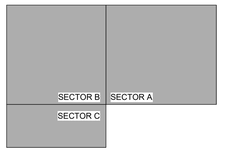
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    - E. THE INSURANCE CARRIER, THE ALARM COMPANY, THE BUILDING OWNERMANAGER AND OTHER AUTHORITIES HAVING JURISDICTION HAVE BEEN NOTIFIED.
    - F. THE SUPERVISORS IN THE AREAS AFFECTED HAVE BEEN NOTIFIED.
    - G. A TAG IMPAIRMENT SYSTEM HAS BEEN IMPLEMENTED.
    - H. NECESSARY TOOLS AND MATERIALS HAVE BEEN ASSEMBLED ON THE IMPAIRMENT SITE.
11. GENERAL CONTRACTOR SHALL DESIGNATE A PERSON TO BE THE POINT OF CONTACT BETWEEN THE CITY AND THE CONTRACTORS WHO WILL OVERSEE THE ADMINISTRATION OF THE OSP.

    2 JAMEY SHAW - SITE SUPERINTENDENT
    FORTIS CONSTRUCTION
    1705 SW TAYLOR ST, SUITE 200, PORTLAND, OR 97205
    PH: (503) 866-4906
12. REFERENCE "TEMPORARY CONDITIONS/CONSTRUCTION SEQUENCE" ON S0.02 FOR SEQUENCE OF WORK RELATED TO THE BUILDING'S STRUCTURAL DESIGN AND REFERENCE SHEETS G0.03 AND G0.04 FOR PHASING DIAGRAMS.

KEY PLAN



woofter bolch architecture
107 SE Washington Street, Suite 228
Portland, OR 97214
503 724 0111

REGISTERED ARCHITECT
Miles E. Woofter
PORTLAND, OR
4872
STATE OF OREGON

City of Portland
Reviewed for Code Compliance
Date: 8/21/2024
Permit #: 24-020319-STR-01-CO

Portland Community College
12000 SW 49th Ave,
Portland, Oregon
97219

PCC SY-HT Building West Side Renovation
12000 SW 49th Ave
Portland, Oregon 97219

Date 07/10/24

Project No. 221000

Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24
2	Revision 2	07-10-24
3	Revision 4	08-13-24

1
3
OCCUPANCY SAFETY DURING CONSTRUCTION PLAN

OSP07

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DRAWING INDEX

		ISSUE LOG			
		DESIGN REVIEW SET #1	DESIGN REVIEW SET #2	PROGRESS SET	REVISION 1
S0.01	DRAWING INDEX AND LIST OF ABBREVIATIONS	X	X	X	X
S0.02	GENERAL STRUCTURAL NOTES	X	X	X	X
S0.03	GENERAL STRUCTURAL NOTES CONT.	X	X	X	-
S0.05	SPECIAL INSPECTIONS AND TESTING	X	X	X	-
S0.06	SPECIAL INSPECTIONS AND TESTING CONT.	X	X	X	-
S0.07	SPECIAL INSPECTIONS AND TESTING CONT.	-	X	X	-
S0.09	LIVE LOADING AND WIND LOADING PLANS	-	-	X	-
S1.00	BASEMENT FOUNDATION PLAN - OVERALL	X	X	X	X
S1.00C	BASEMENT FOUNDATION PLAN - SECTOR C	-	-	X	X
S1.01	LEVEL 1 FRAMING PLAN - OVERALL	X	X	X	X
S1.01C	LEVEL 1 FRAMING PLAN - SECTOR C	-	-	X	X
S1.02	LEVEL 2 FRAMING PLAN - OVERALL	X	X	X	-
S1.02C	LEVEL 2 FRAMING PLAN - SECTOR C	-	-	X	X
S1.03	LEVEL 3 FRAMING PLAN - OVERALL	X	X	X	-
S1.03C	LEVEL 3/ROOF FRAMING PLAN - SECTOR C	-	-	X	X
S1.04	ROOF FRAMING PLAN - OVERALL	X	X	X	-
S1.04B	ROOF FRAMING PLAN - SECTOR B	-	-	X	-
S1.05	PARTIAL PLAN LEVEL 3/ROOF FRAMING PLAN - SECTOR C	-	-	X	X
S2.01	EXTERIOR ELEVATIONS	X	X	X	X
S2.51	INTERIOR ELEVATIONS	-	-	X	X
S3.01	BUILDING SECTIONS	X	X	X	X
S3.02	BUILDING SECTIONS	X	X	X	X
S3.10	SHEAR WALL ELEVATIONS AND SFRS DETAILS	-	-	-	X
S5.01	TYPICAL CONCRETE DETAILS	-	X	X	X
S6.01	TYPICAL STEEL DETAILS	-	X	X	X
S6.02	TYPICAL STEEL DETAILS	-	X	X	X
S6.03	TYPICAL STEEL DETAILS	-	X	X	-
S6.04	STEEL DETAILS	-	-	X	X

ISSUE LOG KEY:
' X ' ISSUED AS PART OF A SET
' - ' NOT A PART OF ISSUED SET
' * ' FOR INFORMATION ONLY

DATE	10/20/2023	12/15/2023	02/23/2024	05/24/2024

LIST OF ABBREVIATIONS

A.B.	ANCHOR BOLT
ACI	AMERICAN CONCRETE INSTITUTE
ADD'L.	ADDITIONAL
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT.	ALTERNATE
ALUM.	ALUMINUM
ARCH.	ARCHITECT / ARCHITECTURAL
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASD	ALLOWABLE STRENGTH DESIGN LOAD LEVEL
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS	AMERICAN WELDING SOCIETY
BLDG.	BUILDING
BOT.	BOTTOM
BRBF	BUCKLING RESTRAINED BRACED FRAME
C.G.	CENTER OF GRAVITY
C.I.P.	CAST IN PLACE
C.J.	CONTROL JOINT
C.J.P.	COMPLETE JOINT PENETRATION
CL	CENTERLINE
CLR.	CLEAR
CLT	CROSS LAMINATED TIMBER
CMU	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECTION
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
db	BAR DIAMETER
DBA	DEFORMED BAR ANCHOR
DET.	DETAIL
DIA., Ø	DIAMETER
DIAG.	DIAGONAL
D.L.	DEAD LOAD
DLT	DOWEL LAMINATED TIMBER
DWG.	DRAWING
ELEC.	ELECTRICAL
EL.	ELEVATION
EQ.	EQUAL
EXIST., (E)	EXISTING
EXP.	EXPANSION
EXT.	EXTERIOR
FDN.	FOUNDATION
FIN.	FINISH
FLR.	FLOOR
FRT	FIRE RETARDANT TREATED
FT.	FOOT
FTG.	FOOTING
GA.	GAUGE
GALV.	GALVANIZED
GL	GLULAM
HORIZ.	HORIZONTAL
HSS	HOLLOW STRUCTURAL STEEL
IBC	INTERNATIONAL BUILDING CODE
I.D.	INSIDE DIAMETER
IN.	INCHES
INT.	INTERIOR
K	KIPS
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
LBS.	POUNDS
L.L.	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LOC.	LOCATION
LONG.	LONGITUDINAL
LSL	LAMINATED STRAND LUMBER
LVF	LOW VELOCITY FASTENER
LVL	LAMINATED VENEER LUMBER
MAX.	MAXIMUM
MBMA	METAL BUILDING MANUFACTURERS ASSOCIATION
MECH.	MECHANICAL
MEPF	MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SAFETY
MFR.	MANUFACTURER
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MPH	MILES PER HOUR
MPP	MASS PLYWOOD PANELS
MT	MAGNETIC PARTICLE TESTING
(N)	NEW
N.I.C.	NOT IN CONTRACT
NLT	NAIL LAMINATED TIMBER
NOM.	NOMINAL
NO.	NUMBER
N.T.S.	NOT TO SCALE
o.c.	ON CENTER
O.D.	OUTSIDE DIAMETER
OPP.	OPPOSITE
OSL	ORIENTED STRAND LUMBER
OWJ	OPEN WEB JOIST
PAF	POWDER ACTUATED FASTENER
PART.	PARTITION
P/C	PRECAST
PCF	POUNDS PER CUBIC FOOT
PERIM.	PERIMETER
PL	PLATE
PP	PARTIAL PENETRATION
PSF	POUNDS PER SQUARE FOOT
PSL	PARALLEL STRAND LUMBER
PSI	POUNDS PER SQUARE INCH
P/T	POST-TENSIONED
P.T.	PRESSURE TREATED
PVC	POLYVINYL CHLORIDE
R, RAD.	RADIUS
RCSC	RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS
REF.	REFERENCE
RET.	RETURN
REINF.	REINFORCING
REQ'D.	REQUIRED
REQ'MTS.	REQUIREMENTS
SCHED.	SCHEDULE
S.C.	SLIP CRITICAL
SCL	STRUCTURAL COMPOSITE LUMBER
SIM.	SIMILAR
SLFS	SEISMIC FORCE RESISTING SYSTEM
S.O.G.	SLAB ON GRADE
SPEC.	SPECIFICATION
SQ.	SQUARE
SS	STAINLESS STEEL
SSMA	STEEL STUD MANUFACTURERS ASSOCIATION
STD.	STANDARD
STRUCT.	STRUCTURAL
SYM.	SYMMETRICAL
THRU	THROUGH
T&G	TONGUE AND GROOVE
TRANS.	TRANSVERSE
TS	LIGHT GAUGE TUBE STEEL
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
U.T.	ULTRASONIC TESTING
ULT.	ULTIMATE STRENGTH DESIGN LOAD LEVEL
VERT.	VERTICAL
V.I.F.	VERIFY IN FIELD
w/	WITH
WF	WIDE FLANGE
w/o	WITHOUT
W.P.	WORK POINT
WPS	WELDING PROCEDURE SPECIFICATION
WWF	WELDED WIRE FABRIC

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OREGON
JULY 31, 1981
VICTORIA P. RICHARDS
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PCC SY-HT Building West Side Renovation
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Portland, Oregon 97219

Date 02/23/24
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Revisions

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1	Revision 1	05-24-24

DRAWING INDEX AND LIST OF ABBREVIATIONS

S0.01

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GENERAL STRUCTURAL NOTES

GENERAL

STRUCTURAL DRAWINGS ARE A PART OF THE CONTRACT DOCUMENTS AND ARE COMPLEMENTARY TO THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING DRAWINGS, THE SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE REQUIREMENTS FROM THE CONTRACT DOCUMENTS INTO THEIR SHOP DRAWINGS AND WORK. AS REQUIRED BY THE GENERAL CONDITIONS, THE CONTRACTOR SHALL PROMPTLY REPORT TO THE ARCHITECT ANY ERRORS, INCONSISTENCIES, OR OMISSIONS IN THE CONTRACT DOCUMENTS DISCOVERED BY OR MADE KNOWN TO THE CONTRACTOR.

THE GENERAL STRUCTURAL NOTES SUPPLEMENT THE PROJECT SPECIFICATIONS. REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. NOTES AND DETAILS ON THE STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER THE GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK. WHERE CONFLICT EXISTS, THE MORE STRINGENT OR RESTRICTIVE REQUIREMENT SHALL GOVERN UNTIL CLARIFICATION IS REQUESTED.

CODE REQUIREMENTS:
CONFORM TO THE 2022 OREGON STRUCTURAL SPECIALTY CODE (OSSC). BASED ON THE 2021 INTERNATIONAL BUILDING CODE (IBC). AND ASCE 41-17, SEISMIC EVALUATION AND RETROFIT OF EXISTING BUILDINGS. 1

PROJECT SCOPE STATEMENT:
THE STRUCTURAL SCOPE OF THE BUILDING RENOVATION UNDER THIS PERMIT INCLUDES THE MAJOR SCOPE ELEMENTS OUTLINED BELOW; REFER TO THE DRAWINGS AND SPECIFICATIONS FOR COMPLETE SCOPE.
- NEW CONCRETE WALL OPENINGS ON GRIDLINES 1 AND E.
- CONCRETE INFILL OF EXISTING WALL OPENINGS ON GRIDLINE E.
- NEW SHOTCRETE SHEAR WALLS AND DRAG STRUT ELEMENTS ON GRIDLINE 1.
- INFILL OF EXISTING SWIMMING POOLS AT LEVEL 1.
- NEW SECOND FLOOR STRUCTURE BETWEEN GRIDLINES E AND I.
- NEW LEVEL 3/ROOF ELEVATOR AND SKLIGHT OPENINGS BETWEEN GRIDLINES E AND I, AND ROOF DIAPHRAGM STRENGTHENING AROUND OPENINGS.
- NEW MECHANICAL UNIT SUPPORT ON GYMNASIUM ROOF.
- NEW ROOF TIE-OFF ANCHORS.
- VOLUNTARY SEISMIC UPGRADE OF EXTERIOR BRICK VENEER ON GRIDLINES A, 1, I, AND 5.
- SEISMIC STRENGTHENING OF EXISTING STRUCTURE WHERE REQUIRED BY CODE DUE TO INCREASE OF MORE THAN 10% IN SEISMIC DEMAND/CAPACITY RATIO OF INDIVIDUAL ELEMENTS.
- GRAVITY LOAD INCREASE ON EXISTING COLUMNS AND FOUNDATIONS DOES NOT EXCEED 5%.

TEMPORARY CONDITIONS/CONSTRUCTION SEQUENCE:
THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES UNTIL COMPLETION.

CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.

EXCAVATIONS SHALL NOT REDUCE THE VERTICAL OR LATERAL SUPPORT FOR ANY FOUNDATION OF THIS PROJECT WITHOUT FIRST UNDERPINNING OR PROTECTING THE FOUNDATION AGAINST DETRIMENTAL LATERAL AND/OR VERTICAL MOVEMENT.

THE CONTRACTOR'S CONSTRUCTION SEQUENCING SHALL MAINTAIN OCCUPANT SAFETY AT ALL TIMES. WHERE NEW CONSTRUCTION IS REQUIRED TO BE IN PLACE PRIOR TO DEMOLITION WORK, NEW CONCRETE SHALL REACH THE SPECIFIED DESIGN STRENGTH PRIOR TO BEGINNING DEMOLTION. MAJOR DEMOLITION SEQUENCING ITEMS FOLLOW, THIS LIST IS NOT COMPREHENSIVE AND DOES NOT INCLUDE ALL SCOPE ITEMS SUBJECT TO SEQUENCING RESTRICTIONS:
- SELECTIVE DEMOLITION OF EXISTING CONCRETE WALL TO CREATE NEW OPENINGS NORTH OF GRIDLING E ON GRIDLINE 1 SHALL NOT BEGIN UNTIL NEW SHEAR WALL AND DRAG STRUTS HAVE BEEN COMPLETED ON GRIDLINE 1.
- SELECTIVE DEMOLTION OF EXISTING CONCRETE WALL TO CREATE NEW OPENINGS ON GRIDLINE E SHALL NOT BEGIN UNTIL EXISTING WALL OPENINGS ON GRIDLINE E HAVE BEEN INFILLED.
- DEMOLITION OF EXISTING PRECAST PRESTRESSED CHANNELS AT THE NATATORIUM ROOF ELEVATOR SHAFT SHALL NOT BEGIN UNTIL THE PRECAST CHANNELS ARE SUPPORTED BY PERMANENT STRUCTURE OR TEMPORARY SHORING.

EXISTING CONDITIONS:
ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS SHALL BE FIELD VERIFIED. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY SIGNIFICANT DISCREPANCIES FROM CONDITIONS SHOWN ON THE DRAWINGS. EXISTING CONCRETE REINFORCEMENT SHALL NOT BE CUT OR DAMAGED FOR INSTALLATION OF NEW CONSTRUCTION UNLESS SPECIFICALLY INDICATED, WITHOUT THE APPROVAL OF THE SEOR. LOCATE EXISTING CONCRETE REINFORCEMENT AS NEEDED TO AVOID DAMAGING EXISTING REINFORCING PRIOR TO FABRICATING STEEL ELEMENTS.

DESIGN CRITERIA

DESIGN WAS BASED ON THE STRENGTH AND DEFLECTION CRITERIA OF THE OSSC. IN ADDITION TO THE DEAD LOADS, THE FOLLOWING LOADS AND ALLOWABLES WERE USED FOR DESIGN, WITH LIVE LOADS (L.L.) REDUCED PER OSSC:

GRAVITY SYSTEM CRITERIA		
OCCUPANCY OR USE	**UNIFORM LOAD**	**CONCENTRATED LOAD**
OFFICES	80 PSF INCLUDING PARTITIONS	2,000 LBS.
CORRIDORS	SAME AS OCCUPANCY SERVED U.N.O.	
STAIRS	100 PSF L.L.	300 LBS. ON TREAD
DECKS AND BALCONIES	1.5x OCCUPANCY SERVED, 100 PSF L.L. MAX.	-
ASSEMBLY AREAS	100 PSF L.L.	-
STORAGE - LIGHT	125 PSF L.L.	-
ROOF LIVE/SNOW LOAD	27 PSF SNOW LOAD (ALSO SEE SNOW LOAD CRITERIA BELOW)	
GRAVITY LOADING NOTES:	1. LIVE LOADS REDUCED PER OSSC. 2. MEMBERS DESIGNED FOR MORE CRITICAL OF UNIFORM OR CONCENTRATED LOAD. 3. REFERENCE SHEET S0.09 FOR LIVE LOADING PLANS.	
FRAMING MEMBER	**DEFLECTION LIMITS**	
VERTICAL FLOOR AND ROOF FRAMING DEFLECTION - BUILDING PERIMETER (FOR CLADDING DESIGN)	TYPICAL: 0.75" OR l/360 WHICHEVER IS LESS DUE TO LONG TERM CREEP COMPONENT OF D.L. + L.L.	
	STRUCTURE SUPPORTING BRICK VENEER: 0.375" OR l/600 WHICHEVER IS LESS DUE TO L.L. PLUS LONG TERM CREEP COMPONENT OF D.L.	
VERTICAL FLOOR FRAMING DEFLECTION - BUILDING INTERIOR	l/360 DUE TO L.L. AND l/240 DUE TO L.L. PLUS LONG TERM CREEP COMPONENT OF D.L.	
VERTICAL ROOF FRAMING DEFLECTION - BUILDING INTERIOR	l/240 DUE TO SNOW LOAD AND l/180 DUE TO SNOW LOAD PLUS LONG TERM CREEP COMPONENT OF D.L.	
HORIZONTAL DEFLECTION - EXTERIOR WALL FRAMING	TYPICAL: l/240 DUE TO ASD WIND LOAD	
	WALLS WITH BRICK VENEER: l/360 DUE TO ASD WIND LOAD	
DEFLECTION LIMIT NOTES:	1. l = LENGTH OF STRUCTURAL FRAMING MEMBER BETWEEN SUPPORTS. 2. FOR CANTILEVER FRAMING, l SHALL BE TAKEN AS 2X THE CANTILEVER LENGTH. 3. LONG TERM CREEP COMPONENT OF DEAD LOAD (D.L.) INCLUDES ONLY THE TIME DEPENDENT PORTION OF LONG TERM DEAD LOADING AND IS APPLICABLE TO CONCRETE AND WOOD FRAMING ONLY.	
SNOW CRITERIA		
DESIGN ROOF SNOW LOAD	27 PSF MINIMUM IN ACCORDANCE WITH OSSC	
SNOW DRIFT	1 PER OSSC AS SHOWN ON PLANS	
GROUND SNOW LOAD	Pg= 10 PSF IN ACCORDANCE WITH: snowload.seao.org	
FLAT ROOF SNOW LOAD	Pf = 11 PSF	
SNOW EXPOSURE FACTOR	Ce = 1.0	
SNOW LOAD IMPORTANCE FACTOR	1 Is = 1.1	
THERMAL FACTOR	Ct = 1.1	
GEOTECHNICAL CRITERIA 1		
DESIGN BASED ON REPORT BY:	CENTRAL GEOTECHNICAL SERVICES, DATED MAY. 17, 2024	
RETAINING WALLS - CANTILEVERED	35 PCF (EQUIVALENT FLUID PRESSURE)	
RETAINING WALLS - BRACED AT TOP	50 PCF (EQUIVALENT FLUID PRESSURE)	
RETAINING WALLS - SEISMIC	9.7H^2 PLF APPLIED AT 0.6H; (H=WALL HEIGHT)	
ALLOWABLE SOIL PRESSURE:	1	
ON APPROVED NATIVE SOIL OR FILL	2,000 PSF	
SHORT TERM LOADING	1/3 INCREASE	
ALLOWABLE MIDROPILE CAPACITIES:		
DOWNWARD	50 TONS	

1

WIND CRITERIA	
RISK CATEGORY	III
BASIC WIND SPEED	VULT = 105 MPH (3-SECOND GUST) VASD = 81 MPH (3-SECOND GUST)
EXPOSURE CATEGORY	B
GUST / INTERNAL PRESSURE	GCpi = +/- 0.18
EXTERIOR COMPONENT AND CLADDING DESIGN PRESSURES	1 REF. S0.09 1

ASCE 7-16 SEISMIC CRITERIA		
RISK CATEGORY	III	
SEISMIC DESIGN CATEGORY	D 1	
SITE CLASS	B/C	
SEISMIC IMPORTANCE FACTOR	1 IE = 1.25	
MAPPED SPECTRAL ACCELERATION PARAMETERS	SS = 0.873	S1 = 0.395
DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS	SDS = 0.639 1	SD1 = 0.316 1

1

ASCE 41-17 SEISMIC CRITERIA		
PERFORMANCE OBJECTIVE	BPON - BASIC PERFORMANCE OBJECTIVE FOR NEW BUILDINGS	
	BSE-2N STRUCT. PERF.:	LIMITED SAFETY
	BSE-1N STRUCT. PERF.:	DAMAGE CONTROL
RISK CATEGORY	III	
LEVEL OF SEISMICITY	HIGH	
SITE CLASS	B/C	
MCE SPECTRAL ACCELERATION	Ss = 0.873	S1 = 0.468
SITE COEFFICIENT	Fa = 1.099	Fv = 1.832
DESIGN SPECTRAL ACCELERATION BSE-2N	SXS = 0.959	SX1 = 0.474
DESIGN SPECTRAL ACCELERATION BSE-1N	SXS = 0.639	SX1 = 0.316
ANALYSIS PROCEDURE	ASCE 41-17 SECTION 7.4.1, LINEAR STATIC PROCEDURE	
C1C2	1.1	
Cm	1.0	
PSEUDO LATERAL FORCE, BSE-2N	34,900 kips	
PSEUDO LATERAL FORCE, BSE-1N	23,300 kips	

SEISMIC FORCE-RESISTING SYSTEM

THE SEISMIC FORCE-RESISTING SYSTEM (SFRS) FOR THE COMPLETED STRUCTURE IS AS FOLLOWS:

EXISTING CONCRETE FLOOR AND ROOF DIAPHRAGMS TYPICALLY, WITH METAL ROOF DECK DIAPHRAGM AT SECTOR B AND PRECAST CHANNEL ROOF DIAPHRAGM AT SECTOR C. DIAPHRAGMS BRACED BY CONCRETE SHEAR WALLS.

1

REFERENCE SHEETS S3.10 FOR SFRS ELEVATIONS AND DETAILS. REFERENCE PLANS FOR ADDITIONAL SFRS COMPONENTS AND DETAILS.

REFER TO THE GENERAL STRUCTURAL NOTES AND SPECIFICATIONS FOR ADDITIONAL FABRICATING, INSTALLATION, TESTING AND INSPECTION REQUIREMENTS FOR MEMBERS THAT ARE PART OF THE SFRS.

STRUCTURAL OBSERVATIONS

THE STRUCTURAL ENGINEER OF RECORD (SEOR) WILL PERFORM STRUCTURAL OBSERVATIONS BASED ON THE REQUIREMENTS OF THE OSSC AT THE STAGES OF CONSTRUCTION LISTED BELOW. CONTRACTOR SHALL PROVIDE SUFFICIENT ADVANCED NOTICE AND ACCESS FOR THE SEOR TO PERFORM THESE OBSERVATIONS.

ITEM	COMMENTS
PRIOR TO FIRST CONCRETE POUR	AFTER REBAR PLACEMENT
PRIOR TO FIRST CONCRETE DECK POUR	AFTER REBAR PLACEMENT
PRIOR TO BEGINNING SHOTCRETE OPERATIONS	AFTER REBAR PLACEMENT
DURING INITIAL STEEL ERECTION	
AS REQUIRED TO ADDRESS STRUCTURAL ISSUES	

A FIELD REPORT WILL BE SUBMITTED TO THE BUILDING DEPARTMENT FOLLOWING EACH SITE VISIT.

STRUCTURAL OBSERVATION IS FOR THE GENERAL CONFORMANCE OF THE STRUCTURAL DRAWINGS AND DOES NOT ALLEVIATE ANY SPECIAL INSPECTION REQUIREMENTS.

SPECIAL INSPECTIONS AND TESTING

SPECIAL INSPECTION WILL BE PROVIDED BY THE OWNER BASED ON THE REQUIREMENTS OF THE OSSC AS SUMMARIZED IN THE SPECIAL INSPECTION AND TESTING PROGRAM ON SHEETS S0.05-S0.07. CONTRACTOR SHALL PROVIDE SUFFICIENT NOTICE AND ACCESS FOR THE SPECIAL INSPECTOR TO PERFORM THESE INSPECTIONS.

SUBMITTALS

SUBMIT SHOP DRAWINGS AND OTHER SUBMITTALS TO THE ARCHITECT AND ENGINEER PRIOR TO FABRICATION AND CONSTRUCTION OF STRUCTURAL ITEMS. IF THE SUBMITTALS DIFFER FROM OR ADD TO THE STRUCTURAL CONTRACT DOCUMENTS, THEY SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF OREGON. ANY CHANGES TO THE STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND ARE SUBJECT TO REVIEW AND ACCEPTANCE BY THE SEOR.

FIELD ENGINEERED DETAILS DEVELOPED BY THE CONTRACTOR THAT DIFFER FROM OR ADD TO THE STRUCTURAL DRAWINGS SHALL BEAR THE SEAL AND SIGNATURE OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF OREGON AND SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO CONSTRUCTION.

THE USE OF REPRODUCTIONS OR PHOTOCOPIES OF THE CONTRACT DRAWINGS SHALL NOT BE PERMITTED. WHEN CAD OR REVIT FILES ARE PROVIDED TO THE CONTRACTOR OR SUBCONTRACTORS, IT IS THE RESPONSIBILITY OF THE CONTRACTOR/SUBCONTRACTOR TO REMOVE ALL INFORMATION NOT DIRECTLY RELEVANT TO THE SCOPE OF THE SUBMITTAL AS WELL AS ALL REFERENCES TO OUTSIDE SOURCE FILES.

DELEGATED DESIGN SUBMITTALS SHALL INCLUDE DESIGN DRAWINGS AND CALCULATIONS FOR ITEMS THAT ARE DESIGNED BY OTHERS. DELEGATED DESIGN SUBMITTALS SHALL BEAR THE SEAL AND SIGNATURE OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF OREGON ON EVERY DRAWING SHEET AND ON THE CALCULATION COVER SHEET, AND SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER PRIOR TO FABRICATION. CALCULATIONS AND DETAILS SHALL BE INCLUDED FOR ALL CONNECTIONS TO THE STRUCTURE, CONSIDERING LOCALIZED EFFECTS ON STRUCTURAL ELEMENTS. DESIGN SHALL BE BASED ON THE REQUIREMENTS OF THE OSSC AND AS NOTED UNDER "DESIGN CRITERIA".

SUBMITTALS AND DELEGATED DESIGN SUBMITTALS SHALL INCLUDE THE FOLLOWING:

ITEM	SUBMITTAL	DELEGATED DESIGN SUBMITTAL	COMMENTS
MEPF SYSTEMS ANCHORAGE AND BRACING		X	REF. TABLE NOTE 1 AND 5 1
MICROPILES 1	X		
FOUNDATION EXCAVATION AND UNDERPINNING	X		SUBMIT SEQUENCING
2 FIBER REINFORCED POLYMER (FRP)		X	
CONCRETE MIX DESIGNS	X		REF. TABLE NOTE 2 AND 3
CONCRETE REINFORCEMENT	X		REF. TABLE NOTE 3
A706 REBAR SUBSTITUTION MILL CERTIFICATIONS	X		REF. TABLE NOTE 3
MASONRY REINFORCEMENT	X		REF. TABLE NOTE 3
CONCRETE ANCHORAGES	X		REF. TABLE NOTE 3
EMBEDDED STEEL ITEMS	X		REF. TABLE NOTE 3
CONSTRUCTION JOINT LAYOUT	X		
STRUCTURAL STEEL	X		REF. TABLE NOTE 3
STEEL WELDING PROCEDURES	X		
STEEL DECKING	X		REF. TABLE NOTE 3
STRUCTURAL COLD FORMED METAL FRAMING	X		REF. TABLE NOTE 3
STEEL FASTENERS	X		
PENETRATIONS OF SLABS/DECKS, WALLS, ETC.	X		REF. TABLE NOTE 4
SKYLIGHTS AND CURTAIN WALL		X	REF. TABLE NOTE 5
STOREFRONT		X	REF. TABLE NOTE 5
METAL STAIRS, LADDERS, AND RAILINGS	X		
ROOF TIE-OFF ANCHORS	2	X	
ROOF PV PANELS		X	REF. TABLE NOTE 5

TABLE NOTES:
1. THE CONTRACTOR SHALL COORDINATE SEISMIC RESTRAINTS OF MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE SAFETY EQUIPMENT AND ASSOCIATED DISTRIBUTION SYSTEMS WITH THE STRUCTURE. CONNECTIONS TO STRUCTURE AND PROVISIONS FOR SEISMIC MOVEMENTS SHALL CONFORM TO ASCE 7-16 CHAPTER 13, BE DESIGNED BY AN ENGINEER REGISTERED IN THE STATE OF OREGON, AND SHALL BE SUBMITTED TO THE ARCHITECT AND SEOR PRIOR TO FABRICATION. FOR RISK CATEGORY III AND IV BUILDINGS, THE SYSTEMS ENGINEER SHALL SPECIFY THE REQUIREMENTS FOR EQUIPMENT SEISMIC CERTIFICATION IN THE DEFERRED SUBMITTAL IN ACCORDANCE WITH OSSC SECTION 1705.13.4 AND ASCE 7-16 SECTION 13.2.2.
2. CONCRETE MIX DESIGN SUBMITTALS TO INCLUDE GLOBAL WARMING POTENTIAL (GWP) REDUCTION FROM BASELINE CALCULATIONS. REFERENCE SPECIFICATION SECTION 03 30 00 FOR ADDITIONAL INFORMATION.
3. SUBMITTAL TO INCLUDE ENVIRONMENTAL PRODUCT DECLARATIONS (EPD) IN ADDITION TO OTHER REQUIREMENTS LISTED IN THE PROJECT SPECIFICATIONS.
4. CONTRACTOR SHALL COORDINATE AND SHOW ALL REQUIRED PENETRATIONS, WITH DIMENSIONS FOR MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, TECHNOLOGY AND OTHER SERVICES ON A SINGLE DRAWING FOR REVIEW AT EACH SLAB/DECK, STRUCTURAL WALL AND/OR BEAM.
5. NON-STRUCTURAL SCOPE ITEMS ARE SHOWN FOR REFERENCE ONLY AND NOT INCLUDED IN THE STRUCTURAL PERMIT. DEFERRED SUBMITTAL WILL BE REUQIRED FOR MAIN BUILDING PERMIT.

MICROPILES

MICROPILES SHALL BE CAPABLE OF DEVELOPING A MINIMUM PILE SAFE WORKING LOAD AS LISTED UNDER DESIGN CRITERIA. MICROPILE CAPACITY SHALL BE VERIFIED BY TESTING AS REQUIRED BY THE SPECIFICATIONS. IN ADDITION TO THE ALLOWABLE WORKING LOAD, MICROPILES SHALL BE DESIGNED FOR THE EFFECTS OF 3" ECCENTRICITY OF THE MICROPILE RELATIVE TO NOMINAL LOCATION.

CONCRETE MIX DESIGNS

CONCRETE WORK SHALL CONFORM TO CHAPTER 19 OF THE OSSC. CONCRETE STRENGTHS SHALL BE VERIFIED BY STANDARD CYLINDER TESTS PER ASTM C39. CONCRETE MIX TO BE DESIGNED AND PROPORTIONED BY THE CONTRACTOR IN ACCORDANCE WITH ACI 318-19 CHAPTER 26, ACI 301-16 SECTION 4 AND THE FOLLOWING INFORMATION:

MIX TYPE	USE	f'c (PSI)	TEST AGE (DAYS)	MAX. W/CM RATIO	MAX. AGG. SIZE	EXPOSURE CLASS
A	MISC. INTERIOR CURBS, PADS, ETC.	3,000	28	N/A	1"	F0
B	INTERIOR SLABS ON GRADE	4,000	28	N/A	1"	F0
C	INTERIOR SLABS ON GRADE - ARCHITECTURALLY EXPOSED TO VIEW	3,000	28	N/A	1"	F0
D	SLABS ON GRADE - EXPOSED TO WEATHER	3,500	28	0.55	3/4"	F2
E	BASEMENT WALLS, SPREAD FOOTINGS AND MAT FOUNDATIONS	4,000	28	N/A	1"	F0
F	SLAB ON METAL DECK	4,000	28	N/A	3/4"	F0
G	CONCRETE OTHER THAN SLABS EXPOSED TO WEATHER	4,500	28	0.45	3/4"	F1
H	MILD REINFORCED SLABS AND BEAMS	5,000	28	N/A	3/4"	F0
I	SHOTCRETE SHEAR WALLS	5,000	28	N/A	1/2" 2	F0

TABLE NOTES:
1. REF. ACI 318-19 TABLE 19.3.2.1 FOR ADDITIONAL MIX REQUIREMENTS SPECIFIC TO EXPOSURE CLASS.
2. ALL CONCRETE MIXES TO BE NORMAL WEIGHT CONCRETE, U.N.O.
3. EXPOSURE CATEGORY "F" APPLIES TO LEVEL OF FREEZE THAW EXPOSURE.
4. ESTABLISH WATER-CEMENTITIOUS MATERIAL RATIO PER ACI 301-16 SECTION 4.
5. VERIFY WATER-CEMENTITIOUS MATERIAL RATIO WITH FLOOR COVERING MANUFACTURER FOR CONCRETE FLOORS WITH MOISTURE SENSITIVE FLOOR COVERINGS.
6. REFERENCE SLABS EXPOSED TO VIEW GENERAL NOTES FOR ADDITIONAL MIX REQUIREMENTS.

1 PORTLAND CEMENT CONTENT MAY BE REPLACED WITH FLY ASH CONFORMING TO ASTM C618 (INCLUDING TABLE 2A) TYPE F OR TYPE C, SLAG CEMENT CONFORMING TO ASTM C989, AND SILICA FUME CONFORMING TO ASTM C1240 PROVIDED THAT THE MIX STRENGTH IS SUBSTANTIATED BY TEST DATA.

FOR MIX DESIGNS WITH f'c = 5,000 PSI OR LESS, SLAG CEMENT MAY BE SUBSTITUTED FOR FLY ASH AT A 1:1 RATIO WITHOUT TEST DATA. WHEN SLAG CEMENT IS SUBSTITUTED IN HIGHER STRENGTH MIXES OR AT A DIFFERENT RATIO, THE MIX STRENGTH MUST BE SUBSTANTIATED BY TEST DATA.

ALL CONCRETE SUBJECT TO EXPOSURE CLASSES F1, F2 OR F3 SHALL BE AIR ENTRAINED. AIR-ENTRAINING AGENTS SHALL CONFORM TO ASTM C260. THE AMOUNT OF ENTRAINED AIR SHALL BE ACCORDING TO ACI 318-19 TABLE 19.3.3.1 AS INDICATED BELOW WITH A FIELD TOLERANCE OF ± 1.5 PERCENT BY VOLUME. THE AMOUNT OF ENTRAINED AIR SHALL BE MEASURED IN THE FIELD AT THE DISCHARGE FROM THE TRUCK.

CONCRETE MIX AIR CONTENT		
MAX. AGGREGATE SIZE	**CONCRETE SUBJECT TO FREEZE/THAW (EXPOSURE CLASS F1)**	**CONCRETE SUBJECT TO CONT. MOISTURE AND/OR DEICING CHEMICALS (EXPOSURE CLASS F2 AND F3)**
3/8"	6.0%	7.5%
1/2"	5.5%	7.0%
3/4"	5.0%	6.0%
1"	4.5%	6.0%
1-1/2"	4.5%	5.5%
ANY WET-MIX SHOTCRETE	5.0%	6.0%

A WATER-REDUCING ADMIXTURE CONFORMING TO ASTM C494 USED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS SHALL BE INCORPORATED IN CONCRETE MIX DESIGNS. A HIGH-RANGE WATER-REDUCING (HRWR) ADMIXTURE CONFORMING TO ASTM C494 TYPE F OR G MAY BE USED IN CONCRETE MIXES PROVIDING THAT THE SLUMP DOES NOT EXCEED 10".

THE CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS ALONG WITH ENVIRONMENTAL PRODUCT DECLARATIONS (EPD), GLOBAL WARMING POTENTIAL REDUCTION CALCULATIONS, AND TEST DATA COMPLIANT WITH ACI 301-16 AND ACI 318-19 A MINIMUM OF TWO WEEKS PRIOR TO PLACING CONCRETE. NO WATER MAY BE ADDED TO CONCRETE IN THE FIELD UNLESS SPECIFICALLY APPROVED IN WRITING BY THE CONCRETE SUPPLIER AND SEOR IN CONJUNCTION WITH THE CONCRETE MIX DESIGN.

ARCHITECTURALLY EXPOSED SLABS

REFERENCE PLANS OR ARCHITECTURAL DRAWINGS FOR SLABS ON GRADE AND SLABS ON DECK THAT ARE INTENDED TO BE EXPOSED TO VIEW. IN ADDITION TO THE REQUIREMENTS ABOVE UNDER CONCRETE NOTES, FINE AGGREGATE GRADING SHALL CONFORM TO ASTM C33 AND COMBINED AGGREGATE GRADING SHALL CONFORM TO ACI 302.1R. CONCRETE SHRINKAGE SHALL BE LESS THAN 0.04% AT 28 DAYS WHEN TESTED PER ASTM C157. SHRINKAGE TEST DATA TO BE SUBMITTED FOR APPROVAL WITH THE MIX DESIGN.

CONTRACTOR SHALL PROTECT EXPOSED SLABS FROM DAMAGE DUE TO EQUIPMENT AND OTHER UNINTENDED LOADING DURING CONSTRUCTION.

REFERENCE SLAB ON GRADE DETAILS FOR ADDITIONAL INFORMATION ON SUBGRADE RECOMMENDATIONS. REFERENCE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS INCLUDING CURING, FINISHING AND VAPOR BARRIER/RETARDER.

CONTRACTOR SHALL COORDINATE AND SUBMIT CONCRETE CONSTRUCTION JOINT AND CONTROL JOINT LAYOUTS FOR REVIEW AND APPROVAL.

FORMWORK, SHORING AND RE-SHORING

FORMWORK, SHORING AND RE-SHORING DESIGN IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL CONFORM TO ACI 347R-14 AND ACI 347.2-17. SHORING AND SUPPORTING FORMWORK SHALL NOT BE REMOVED FROM HORIZONTAL MEMBERS BEFORE CONCRETE STRENGTH IS AT LEAST 70 PERCENT OF DESIGN STRENGTH, AS DETERMINED BY FIELD CURED CYLINDERS. IN ADDITION, SHORING SHALL NOT BE REMOVED SOONER THAN THE FOLLOWING CUMULATIVE TIME PERIODS WITH SURROUNDING TEMPERATURE GREATER THAN OR EQUAL TO 50 DEGREES FAHRENHEIT:

ELEMENT	MINIMUM REMOVAL TIME	COMMENTS
WALLS, COLUMNS AND BEAM SIDES	12 HOURS	WHERE FORMS ALSO SUPPORT FORMWORK FOR SLABS OR SOFFITS, THE REMOVAL TIME OF THE LATTER GOVERNS.
JOIST, BEAM OR GIRDER SOFFITS LESS THAN 10'-0" CLEAR SPAN 10'-0" TO 20'-0" CLEAR SPAN OVER 20'-0"	 7 DAYS 14 DAYS 21 DAYS	FORM REMOVAL TIME MAY BE HALF OF THAT SHOWN WHERE FORMS WILL BE REMOVED WITHOUT DISTURBING SHORES
ONE WAY FLOOR SLABS LESS THAN 10'-0" CLEAR SPAN 10'-0" TO 20'-0" CLEAR SPAN OVER 20'-0"	 4 DAYS 7 DAYS 10 DAYS	FORM REMOVAL TIME MAY BE HALF OF THAT SHOWN WHERE FORMS WILL BE REMOVED WITHOUT DISTURBING SHORES, 3 DAYS MIN.

WHERE NEW CONCRETE IS PLACED AGAINST EXISTING CONCRETE, THE EXISTING CONCRETE SURFACE SHALL BE CLEANED AND PREWETTED WITH STANDING WATER REMOVED AS INDICATED PER ACI 318-19 SECTION 26.5.6.2. JOINTS SHALL BE INTENTIONALLY ROUGHENED TO 1/4" AMPLITUDE WHERE INDICATED AS "ROUGHENED" IN THE DRAWINGS AND AT JOINTS IN MEMBERS THAT ARE PART OF THE SFRS UNLESS A SHEAR KEY IS SPECIFICALLY DETAILED.

PROVIDE 3/4" CHAMFERS ON ALL EXPOSED CONCRETE EDGES, UNLESS NOTED OTHERWISE.

SHOTCRETE

STRUCTURAL SHOTCRETE MAY BE USED IN LIEU OF CAST IN PLACE CONCRETE. SHOTCRETE WORK SHALL CONFORM TO ACI 318-19 AND ACI 506.2-13(18). NON-CONTACT LAP SPLICES SHALL BE D . .. :D IN THE REBAR SUBMITTAL SHOP DRAWINGS IN ACCORDANCE WITH ACI 318-19 SECTION 25.5.1.6.

PRE-CONSTRUCTION TESTS SHALL BE PERFORMED IN ACCORDANCE TO THE SPECIFICATIONS AND ACI 506.2-13(18) SECTION 1.5. PRECONSTRUCTION MOCKUP PANELS SHALL REPRESENT THE MOST CONGESTED AREA SPECIFIED IN THE STRUCTURAL DESIGN INCLUDING LAP SPLICES, TIES, COUPLERS, DIAGONAL BARS, EMBEDDED COLLECTORS, ETC. USING THE DESIGN MIXTURE, SHOOTING ORIENTATION, EQUIPMENT, AND NOZZLE OPERATOR TO BE USED DURING CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT PRECONSTRUCTION MOCKUP PANEL SHOP DRAWINGS FOR REVIEW BY THE SEOR. NO SHOTCRETE WORK SHALL COMMENCE ON THE PROJECT UNTIL THE PRE-CONSTRUCTION PERFORMANCE MOCKUP AND TESTING REQUIREMENTS HAVE BEEN COMPLETED AND ACCEPTED BY THE SEOR.

SHOTCRETE STRENGTHS SHALL BE VERIFIED BY CONSTRUCTION TESTING PER THE SPECIFICATIONS AND ACI 506.2-13(18). CONTRACTOR SHALL MAKE TEST PANELS FOR EACH SHOTCRETE MIXTURE AND EACH SHIFT OR FOR EVERY 50 CUBIC YARDS OF SHOTCRETE PLACED, WHICHEVER IS LESS. TEST (3) 3" DIAMETER CORES PER TEST PANEL TO VERIFY COMPRESSIVE STRENGTH ACCORDING TO ASTM C1140.

FIBER REINFORCED POLYMER (FRP) REINFORCING

GENERAL CONTRACTOR SHALL COORDINATE ALL FRP STRENGTHENING WITH THE FRP DESIGNER AND INSTALLER. FRP SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH ACI 440.2R "GUIDE FOR THE DESIGN AND CONSTRUCTION OF EXTERNALLY BONDED FRP SYSTEMS FOR STRENGTHENING CONCRETE STRUCTURES". TO MEET THE DESIGN REQUIREMENTS INDICATED. NOTIFY THE SEOR IMMEDIATELY IF ADDITIONAL INFORMATION IS REQUIRED TO COMPLETE THE FRP DESIGN. SUBMIT SHOP DRAWINGS AND STRUCTURAL CALCULATIONS STAMPED BY AN OREGON REGISTERED PROFESSIONAL ENGINEER.

EXISTING CONCRETE ELEMENTS SHALL BE VISUALLY INSPECTED PRIOR TO INSTALLATION OF REINFORCING MATERI

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GENERAL STRUCTURAL NOTES CONT.

CONCRETE REINFORCING STEEL

CONCRETE REINFORCEMENT SHALL BE AS LISTED BELOW. ASTM A615 REINFORCEMENT MAY BE SUBSTITUTED FOR ASTM A706 REINFORCEMENT PROVIDED THAT THE ACTUAL YIELD STRENGTH BASED ON MILL TESTS DOES NOT EXCEED Fy BY MORE THAN 18,000 PSI AND THE RATIO OF ACTUAL TENSILE STRENGTH TO ACTUAL YIELD STRENGTH IS NOT LESS THAN 1.25 AND THE ELONGATION REQUIREMENTS OF ASTM A706 ARE MET PER ACI 318-19 SECTION 20.2.2.5. MILL TESTS CERTIFICATIONS FOR SUBSTITUTED BARS SHALL BE SUBMITTED TO THE SPECIAL INSPECTOR AND SEOR PRIOR TO PLACEMENT. ASTM A706 REINFORCEMENT MAY BE SUBSTITUTED FOR ASTM A615 REINFORCEMENT.

REINFORCING LOCATION	MATERIAL GRADE
REINFORCING TO BE WELDED	ASTM A706 GRADE 60
ALL OTHER USES U.N.O.	ASTM A615 GRADE 60

ALL REINFORCING STEEL SHALL BE SECURELY TIED IN PLACE WITH #16 ANNEALED IRON WIRE. BARS IN BEAMS AND SLABS SHALL BE SUPPORTED ON WELL-CURED CONCRETE BLOCKS OR APPROVED METAL OR PLASTIC CHAIRS, AS SPECIFIED BY THE CRSI MANUAL OF STANDARD PRACTICE, MSP-1. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH ACI MNL-66 "ACI DETAILING MANUAL". SHOP DRAWINGS SHALL INCLUDE ELEVATIONS OF ALL BEAMS, WALLS AND COLUMNS SHOWING BAR LOCATIONS.

REINFORCING BARS SHALL NOT BE BENT OR STRAIGHTENED IN THE FIELD WITHOUT APPROVAL OF THE SEOR. PREHEATING METHODS SHALL BE SUBMITTED TO THE SEOR FOR APPROVAL PRIOR TO BENDING OF BARS #6 OR LARGER.

LAP ALL REINFORCING BARS PER THE TYPICAL LAP SPLICE LENGTH SCHEDULES, EXCEPT AS NOTED ON DRAWINGS. USE LAP LENGTH FOR SMALLER BAR WHEN SPLICING DIFFERENT BAR SIZES. BARS SPLICED WITH NONCONTACT LAPS SHALL BE SPACED NO FARTHER THAN 1/5TH THE LAP LENGTH OR 6 INCHES. MECHANICAL SPLICES NOTED ON THE PLANS SHALL BE DAYTON SUPERIOR BAR-LOCK OR TAPER-LOCK COUPLERS (UES ER-319) OR APPROVED EQUAL WITH A CURRENT EVALUATION REPORT.

TYP. WALL AND SLAB LAP SPLICE LENGTH SCHEDULE (IN.)

BAR SIZE	WALL VERTICAL AND SLAB BOTTOM BARS			WALL HORIZONTAL AND SLAB TOP BARS		
	3,000 PSI	4,000 PSI	5,000 PSI	3,000 PSI	4,000 PSI	5,000 PSI
#3	18	16	16	24	20	18
#4	30	26	24	38	34	30
#5	36	32	28	48	42	36
#6	44	38	34	56	50	44
#7	70	60	54	90	78	70
#8	86	74	68	112	98	88
#9	104	90	82	136	118	106
#10	126	108	98	162	142	126
#11	146	128	114	190	166	148

TYP. BEAM AND COLUMN LAP SPLICE LENGTH SCHEDULE (IN.)

BAR SIZE	4,000 PSI		5,000 PSI	
	BEAM TOP BARS	OTHER BARS	BEAM TOP BARS	OTHER BARS
#4	22	18	20	16
#5	28	22	26	20
#6	34	26	32	24
#7	50	40	46	36
#8	58	44	52	40
#9	66	50	58	46
#10	74	58	66	52
#11	86	66	76	60

TYP. FOUNDATION AND MAT LAP SPLICE LENGTH SCHEDULE (IN.)

BAR SIZE	BOTTOM BARS			TOP BARS		
	3,000 PSI	4,000 PSI	5,000 PSI	3,000 PSI	4,000 PSI	5,000 PSI
#3	18	14	14	22	20	18
#4	22	20	18	28	26	22
#5	28	24	22	36	32	28
#6	34	28	26	42	38	34
#7	48	42	38	62	54	48
#8	54	48	42	70	62	54
#9	62	54	48	80	70	62
#10	70	60	54	90	78	70
#11	80	70	64	104	90	82

TYP. SHEAR WALL LAP SPLICES

REFERENCE LAP SPLICE SCHEDULES ON ELEVATION SHEETS SX.XX

TABLE NOTES:
1. SPLICE LENGTHS ARE FOR MEMBERS THAT ARE NOT PART OF THE SFRS. REFERENCE PLANS AND ELEVATIONS FOR LAP SPLICES LENGTHS AT SFRS ELEMENTS.
2. SPLICE LENGTHS APPLY TO ASTM A615 OR ASTM A706 GRADE 60 DEFORMED REINFORCING BARS ONLY.
3. SPLICE LENGTHS ARE BASED ON THE CLEAR COVER AND MINIMUM BAR CLEAR SPACING INDICATED BELOW.
7. SLAB, FOUNDATION AND MAT TOP BARS ARE BARS CAST ABOVE MORE THAN 12" OF FRESH CONCRETE. ALL OTHER SLAB BARS MAY BE CONSIDERED BOTTOM BARS.

REINFORCING STEEL SHALL HAVE PROTECTION AND SPACING AS FOLLOWS:

CONCRETE COVER

USE	CLEAR COVER	MIN. CLEAR SPACING
BEAMS, JOISTS AND COLUMNS	1-1/2" (TO STIRRUPS OR TIES)	4db
ONE-WAY SLABS	3/4"	2db OR 1"
WALLS: INTERIOR FACES	3/4"	2db OR 1"
CONCRETE EXPOSED TO EARTH OR WEATHER	1-1/2" (#5 AND SMALLER) 2" (#6 AND LARGER)	2db OR 1"
CONCRETE CAST AGAINST AND EXPOSED TO EARTH	3"	3db OR 1"

CONCRETE WALL REINFORCING

CONCRETE WALL REINFORCEMENT TO BE AS FOLLOWS, U.N.O.:

WALL THICKNESS	HORIZONTAL	VERTICAL	LOCATION
6"	#4 @ 12" o.c.	#4 @ 12" o.c.	AT CL OF WALL
8"	#4 @ 10" o.c.	#4 @ 10" o.c.	AT CL OF WALL
10"	#4 @ 16" o.c.	#4 @ 16" o.c.	AT EACH FACE
12"	#4 @ 12" o.c.	#4 @ 12" o.c.	AT EACH FACE

CONCRETE REINFORCING DETAILS

CONTINUE HORIZONTAL WALL BARS THROUGH PILASTERS, COLUMNS AND INTERSECTING WALLS. AT SLAB AND WALL OPENINGS PROVIDE A MINIMUM OF TWO #5 BARS OVER, UNDER AND AT THE SIDES OF THE OPENINGS. EXTEND THESE BARS LAP DISTANCE OR A MINIMUM OF 2'-0" PAST THE OPENING. PROVIDE ONE #5x4'-0" FOR SINGLE-LAYER REINFORCING AND ONE #5x4'-0" EACH FACE FOR DOUBLE-LAYER REINFORCING PLACED DIAGONALLY AT EACH CORNER OF ALL OPENINGS. REFER TO TYPICAL DETAILS FOR DISPOSITION OF CORNER BARS AND BARS IN SMALL WALL SECTIONS. SLAB BARS SHALL BE HOOKED INTO WALLS, OR HOOKED DOWELS SHALL BE PROVIDED TO MATCH SLAB REINFORCING. PROVIDE (2) #4x4'-0" PLACED DIAGONALLY AT EACH RE-ENTRANT CORNER IN SLABS. PROVIDE HOOKED DOWELS FROM FOOTINGS TO MATCH VERTICAL WALL REINFORCING, UNLESS NOTED OTHERWISE. SHOP DRAWINGS SHALL INCLUDE ALL SPECIAL REINFORCEMENT LISTED ABOVE.

CONCRETE EMBEDMENTS

HEADED SHEAR STUDS SHALL BE NELSON HEADED ANCHORS WITH FLUXED ENDS (ICC ESR-2856) OR APPROVED ALTERNATE. DEFORMED BAR ANCHORS (DBA) UP TO #6 BAR SHALL BE NELSON D6L A706 STUD WELDABLE REBAR, OR APPROVED ALTERNATE. STUDS AND DBA SHALL BE AUTOMATICALLY END-WELDED WITH THE MANUFACTURER'S STANDARD EQUIPMENT IN ACCORDANCE WITH THEIR RECOMMENDATIONS. REINFORCING STEEL SHALL BE WELDED TO STEEL PLATE OR SECTIONS WITH A CJP WELD OR ALL AROUND FILLET WELD AS INDICATED BELOW:

TYP. REINFORCING STEEL WELDING SCHEDULE

BAR SIZE	FILLET WELD SIZE (IN.)	MIN. PLATE THICKNESS (IN.)
#3	1/4	1/4
#4	5/16	1/4
#5	3/8	1/4
#6	7/16	5/16
#7	1/2	3/8
#8	9/16	3/8
#9	5/8	7/16
#10	11/16	1/2
#11	3/4	9/16

TABLE NOTES:
1. ALL WELDED REBAR TO BE ASTM A706 GRADE 60.
2. ALL AROUND FILLET WELD USING E70 ELECTRODE OR PROVIDE CJP AT CONTRACTOR'S OPTION.
3. BARS TO BE ORIENTATED PERPENDICULAR TO PLATE.
4. PLATE TO BE GRADE 36 MINIMUM.

CAST-IN-PLACE ANCHOR BOLTS SHALL BE HEADED BOLTS CONFORMING TO ASTM F1554 GRADE 55, MEETING SUPPLEMENTAL REQUIREMENT S1 (WELDABLE) U.N.O.

NO LOADS OR WELDS SHALL BE PLACED ON EMBEDDED PLATES OR ANGLES FOR MINIMUM OF 7 DAYS AFTER CASTING.

SLEEVES, OPENINGS, CONDUIT, AND OTHER EMBEDDED ITEMS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER BEFORE PLACING CONCRETE. CONDUITS EMBEDDED IN SLABS SHALL NOT BE LARGER IN OUTSIDE DIMENSION THAN ONE THIRD OF THE THICKNESS OF THE SLAB AND SHALL NOT BE SPACED CLOSER THAN THREE DIAMETERS ON CENTER.

VERIFY ALL BLOCK OUTS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING REQUIREMENTS.

POST-INSTALLED CONCRETE ANCHORS

POST-INSTALLED CONCRETE ANCHORS SHALL BE THE FOLLOWING PRODUCTS, U.N.O.:

TYPE	APPROVED ANCHOR
EXPANSION	SIMPSON STRONG-BOLT 2 (ICC ESR-3037)
CONCRETE SCREW	SIMPSON TITEN HD (ICC ESR-2713)
ADHESIVE	SIMPSON SET-3G (ICC ESR-4057)

ANCHORS SHALL BE INSTALLED IN STRICT CONFORMANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS AND PRODUCT EVALUATION REPORTS. EMBEDMENTS SPECIFIED ON DRAWINGS ARE ACTUAL EMBEDMENT DEPTHS. DO NOT CUT REINFORCING IN NEW OR EXISTING CONCRETE DURING INSTALLATION. ANCHORS SHALL NOT BE INSTALLED IN POST TENSIONED CONCRETE WITHOUT WRITTEN APPROVAL FROM THE SEOR.

REQUESTS FOR ANCHOR SUBSTITUTIONS SHALL BE SUBMITTED TO THE SEOR IN WRITING ALONG WITH EVIDENCE OF EQUAL OR GREATER CAPACITY UNDER THE SPECIFIC PROJECT CONDITIONS.

ALL-THREAD ROD FOR ADHESIVE ANCHORS SHALL CONFORM TO ASTM F1554 GRADE 55, U.N.O. ANCHORS EXPOSED TO EARTH OR WEATHER SHALL BE PROTECTED FROM CORROSION BY HOT-DIP GALVANIZING OR USE OF STAINLESS STEEL. PERMANENTLY EXPOSED EMBEDDED PLATES AND ANGLES SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION, U.N.O.

ADHESIVE ANCHORS SHALL NOT BE INSTALLED FOR A MINIMUM OF 21 DAYS AFTER CASTING CONCRETE IN ACCORDANCE WITH ACI 318-19 SECTION 17.2.2. LOADS SHALL NOT BE PLACED ON ADHESIVE ANCHORS UNTIL ADHESIVE IS FULLY CURED. CONCRETE SUBSTRATE SHALL BE DRY, WITHIN THE ALLOWABLE TEMPERATURE RANGE, HOLES SHALL BE MADE WITH A HAMMER DRILL USING A CARBIDE TIPPED DRILL BIT, AND CLEANED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.

EXPANSION AND SCREW ANCHORS SHALL NOT BE REMOVED AND RESET. SCREW ANCHORS SHALL NOT BE INSTALLED IN HOLES PREVIOUSLY THREADED BY A PRIOR SCREW ANCHOR.

RIGID POLYSTYRENE GEOFOAM (EPS)

EPS GEOFOAM USED IN OVER-FRAMING APPLICATIONS SHALL CONFORM TO ASTM D6817 WITH THE FOLLOWING PROPERTIES:

AT TYPICAL FLOOR AREAS, USE GEOFOAM TYPE EPS19 WITH A MINIMUM COMPRESSIVE RESISTANCE OF 5.8 PSI AT 1% DEFORMATION.

AT POOL INFILL AND HEAVILY LOADED AREAS, USE GEOFOAM TYPE EPS29 WITH A MINIMUM COMPRESSIVE RESISTANCE OF 10.9 PSI AT 1% DEFORMATION.

EPOXY ADHESIVE FOR CRACK REPAIR

EPOXY REPAIR ADHESIVE SHALL CONFORM TO ASTM C881 AND SHALL BE A TWO-COMPONENT, LIQUID EPOXY WITH NON-SAG CONSISTENCY AND A LONG POT LIFE. THE EPOXY ADHESIVE SHALL BE SUITABLE FOR USE ON DRY OR DAMP SURFACES. EPOXY SHALL MEET REQUIREMENTS OF A "TYPE IV" BONDING SYSTEM WITH A MINIMUM TENSILE STRENGTH OF 7,000 PSI. NOTIFY ARCHITECT AND SEOR BEFORE BEGINNING ANY EPOXY REPAIR WORK. SUBMIT PRODUCT DATA AND REPAIR PROCEDURE TO ARCHITECT FOR REVIEW.

STRUCTURAL STEEL

STRUCTURAL STEEL SHALL BE OF THE MATERIAL AND TYPE LISTED BELOW, U.N.O.:

STRUCTURAL STEEL

SHAPE	MATERIAL GRADE
WIDE FLANGE SHAPES	ASTM A992, GRADE 50
PLATES WHERE NOTED	ASTM A572, GRADE 50
CHANNELS, PLATES AND ANGLES, U.N.O.	ASTM A36
HOLLOW STRUCTURAL SECTIONS (RECTANGULAR)	ASTM A500, GRADE C (Fy=50KSI)
HOLLOW STRUCTURAL SECTIONS (ROUND)	ASTM A500, GRADE C (Fy=46KSI)
PIPES	ASTM A53, GRADE B (Fy=35 KSI)

DESIGN, DETAILING, FABRICATION, AND ERECTION SHALL BE IN ACCORDANCE WITH THE AISC 360, "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" WITH "COMMENTARY" AND THE "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", WITH THE FOLLOWING CLARIFICATIONS AND ADDITIONS:

1. CLARIFY SECTIONS 7.5.1 AND 7.5.3 AS FOLLOWS: EMBEDMENT LOCATION DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR INFORMATION ONLY. THE SEOR IS NOT RESPONSIBLE FOR THE APPROVAL OF EMBEDMENT LOCATION DRAWINGS.
2. ADD THE FOLLOWING PARAGRAPH TO SECTION 7.10.3: "THE ERECTOR SHALL HAVE THE SOLE RESPONSIBILITY FOR DETERMINING THE MEANS AND METHODS USED TO PROPERLY AND ADEQUATELY BRACE THE FRAMING DURING ERECTION."

BOLTS SHALL CONFORM TO THE ASTM AND RCSC SPECIFICATIONS FOR JOINTS USING HIGH STRENGTH BOLTS. BOLTS SHALL BE ASTM F3125 GRADE A325 AND GRADE A490 WHERE NOTED, AND SNUG-TIGHT UNLESS NOTED OTHERWISE. HIGH STRENGTH BOLTS USED AS PART OF THE SEISMIC FORCE RESISTING SYSTEM (SFRS) NOTED ON THE DRAWINGS AND DETAILS SHALL BE FULLY TENSIONED AND ALL FAYING SURFACES SHALL BE PREPARED AS REQUIRED FOR CLASS A OR BETTER SLIP-CRITICAL JOINTS.

WELDING SHALL CONFORM TO THE AWS CODES FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION. WELDING SHALL BE PERFORMED IN ACCORDANCE WITH A WELDING PROCEDURE SPECIFICATION (WPS) AS REQUIRED BY AWS D1.1 AND APPROVED BY THE STRUCTURAL ENGINEER. THE WPS VARIABLES SHALL BE WITHIN THE PARAMETERS ESTABLISHED BY THE FILLER-METAL MANUFACTURER. FOR MEMBERS INCLUDED IN THE SEISMIC FORCE RESISTING SYSTEM (SFRS), REQUIREMENTS OF AWS D1.8 SHALL APPLY.

FOR MEMBERS AND CONNECTIONS THAT ARE PART OF THE SEISMIC FORCE RESISTING SYSTEM, DISCONTINUITIES CREATED BY ERRORS OR BY FABRICATION OR ERECTION OPERATIONS, SUCH AS TACK WELDS, ERECTION AIDS, AIR-ARC GOUGING, AND FLAME CUTTING, SHALL BE REPAIRED AS REQUIRED BY THE STRUCTURAL ENGINEER.

WELDS SHALL BE MADE USING E70XX ELECTRODES AND SHALL BE 3/16" MINIMUM, UNLESS OTHERWISE NOTED. WELDING SHALL BE BY AWS CERTIFIED WELDERS.

PROVIDE WEEP HOLES AT EXTERIOR CLOSED SECTIONS WHERE MOISTURE MAY ACCUMULATE. LOCATE WEEP HOLES AT BOTTOM OF HORIZONTAL MEMBERS AT MIDSPAN UNLESS OTHER NOTED. LOCATE WEEP HOLES AT BOTTOM OF VERTICAL MEMBERS EXCEPT AT ROOF ASSEMBLIES. ALL WEEP HOLES TO BE APPROVED PRIOR TO FABRICATION.

NON-SHRINK GROUT USED UNDER BEARING AND BASE PLATES SHALL BE ASTM C 1107, FACTORY-PACKAGED, NONMETALLIC AGGREGATE GROUT, NONCORROSIVE, NONSTAINING, MIXED WITH WATER TO CONSISTENCY SUITABLE FOR APPLICATION AND A 30-MINUTE WORKING TIME. GROUT STRENGTH SHALL BE 8,000 PSI MINIMUM AT 28 DAYS.

DISSIMILAR METALS SHALL BE SEPARATED AS REQUIRED TO PREVENT GALVANIC CORROSION BY COMPLETELY COVERING CONTACT AREAS WITH HESKINS 3453 CORROSION PROTECTION TAPE OR APPROVED EQUAL MATERIAL.

DISSIMILAR METALS SHALL BE SEPARATED AS REQUIRED TO PREVENT GALVANIC CORROSION BY COMPLETELY COVERING CONTACT AREAS WITH HESKINS 3453 CORROSION PROTECTION TAPE OR APPROVED EQUAL MATERIAL.

STRUCTURAL STEEL

ALL STEEL EXPOSED TO WEATHER OR LOCATED OUTSIDE THE BUILDING ENVELOPE SHALL BE HOT-DIP GALVANIZED UNLESS NOTED OTHERWISE IN PROJECT SPECIFICATIONS OR DRAWINGS. WHERE THESE ELEMENTS ARE ALSO EXPOSED TO VIEW THEY SHALL ADDITIONALLY BE PAINTED OR POWDER COATED PER SPECIFICATIONS AND ARCHITECTURAL DRAWINGS.

ALL GALVANIZED STEEL IS TO BE DETAILED TO BE SHOP WELDED AND FIELD BOLTED. WHERE FIELD WELDING IS REQUIRED DUE TO FIELD CONDITIONS, REPAIR DAMAGED GALVANIZED COATING WITH ZINC RICH PAINT PER ASTM A780 WITH EFFECTIVE THICKNESS EQUAL TO HOT-DIP GALVANIZED COATING.

STEEL DECK

STEEL FLOOR DECK SHALL BE A COMPOSITE TYPE WITH RIBS AT 12" o.c. OF THE SIZE AND GAUGE INDICATED ON THE PLANS. STEEL FLOOR DECK SHALL BE VENTED AS REQUIRED BY THE DECK MANUFACTURER BASED ON THE FLOOR COVERING OR COATING BEING USED. STEEL ROOF DECK SHALL BE 1-1/2" TYPE B OR 3" TYPE N (32" WIDTH) OF THE GAUGE INDICATED ON THE PLANS. STEEL DECK SHALL CONFORM TO ASTM A653 DESIGNATION SS, GRADE 50 (Fy = 50 KSI). THE GALVANIZED COATING SHALL CONFORM TO ASTM A653, G60 (G90 WHERE LEFT PERMANENTLY EXPOSED TO WEATHER).

MINIMUM DECK GAUGES INDICATED ON THE PLANS ARE BASED ON 3-SPAN, UN-SHORED CONDITIONS. FOR OTHER SPAN CONDITIONS, DECK MANUFACTURER SHALL EVALUATE AND INDICATE SHORING AS REQUIRED. MINIMUM PROPERTIES SHALL BE AS FOLLOWS:

FLOOR DECK PROPERTIES

DECK TYPE & GAUGE	I (IN^4/FT)	+S (IN^3/FT)	-S (IN^3/FT)
W3 - 20 GAUGE	0.907	0.510	0.528

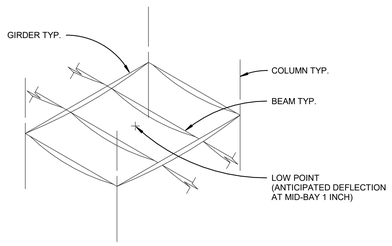
ROOF DECK PROPERTIES

DECK TYPE & GAUGE	I (IN^4/FT)	+S (IN^3/FT)	-S (IN^3/FT)
B - 20 GAUGE	0.219	0.230	0.237

WELDED OR MECHANICAL DECK CONNECTIONS SHALL BE PROVIDED AT ALL SUPPORTS AND SIDELAPS AS INDICATED. DECK DESIGN IS BASED ON VERCO IN ACCORDANCE WITH IAPMO ES EVALUATION REPORT ER-0217. EQUAL PRODUCT(S) MAY BE SUBMITTED FOR REVIEW AND APPROVAL BY THE SEOR.

DO NOT HANG OR SUSPEND STRUCTURAL ITEMS DIRECTLY FROM ROOF DECK. NON-STRUCTURAL ITEMS SUSPENDED FROM THE DECK SHALL BE REVIEWED AND APPROVED BY THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO INSTALLATION.

METAL DECK, BEAMS, AND GIRDERS WILL DEFLECT DURING PLACEMENT OF CONCRETE. CONTRACTOR SHALL ACCOUNT FOR THIS DISPLACEMENT BY PROVIDING ADDITIONAL CONCRETE AT CENTER OF SPANS. THE INTENT IS TO CONSTRUCT LEVEL FLOORS WITHIN EACH BAY, OR STRAIGHT SLOPES ON ROOF BAYS, AND TO PROVIDE THE MINIMUM INDICATED THICKNESS OF CONCRETE OVER METAL DECK.



COLD-FORMED METAL FRAMING

STEEL STUDS SHALL BE C-STUDS WITH A MINIMUM YIELD STRENGTH OF 33,000 PSI FOR 33 AND 43 MIL AND 50,000 PSI FOR 54, 68 AND 97 MIL THICKNESSES. GAUGE PLATE AND STRAPS SHALL HAVE A MINIMUM YIELD STRENGTH OF 30,000 PSI FOR 33 AND 43 MIL AND 50,000 PSI FOR 54, 68 AND 97 MIL THICKNESSES. COLD-FORMED FRAMING SHALL BE OF THE SIZE, GAUGE, AND SPACING SHOWN ON THE DRAWINGS.

THE AMERICAN IRON AND STEEL INSTITUTE AND STEEL STUD MANUFACTURES ASSOCIATION (SSMA) STANDARDS ARE USED IN THIS PACKAGE. PRODUCTS USED SHALL MEET OR EXCEED AISI STANDARDS AND ARE DESIGNATED BY THE FOLLOWING FOUR PART IDENTIFICATION CODE:

EXAMPLE: 362 S 162 - 33

362 INDICATES WEB DEPTH (IN 1/100 OF AN INCH)
S INDICATES SHAPE STYLE (S, T, U OR F)
162 INDICATES FLANGE WIDTH (IN 1/100 OF AN INCH)
33 INDICATES MATERIAL MIL THICKNESS (1 MIL = 1/1,000 INCH)

PROVIDE BRIDGING ADEQUATE TO DEVELOP THE FULL MOMENT CAPACITY OF STUDS IN CONFORMANCE WITH THE STEEL STUD MANUFACTURERS ASSOCIATION'S (SSMA) RECOMMENDATIONS.

ALL FIELD CUTTING OF STUDS MUST BE BY SAWING, SHEARING, OR PLASMA CUTTING. OTHER CUTTING METHODS OF COLD-FORMED MEMBERS ARE UNACCEPTABLE.

NO NOTCHING OR COPING OF STUDS IS ALLOWED, UNLESS NOTED OTHERWISE.

ENDS OF AXIAL LOAD BEARING WALL STUDS SHALL HAVE SQUARE END CUTS AND SHALL BE SEATED TIGHT AGAINST THE TRACKS WITH A MAXIMUM GAP TOLERANCE OF 1/8" BETWEEN THE STUD AND TRACK. FOR STUDS WITH A MATERIAL THICKNESS OF 68 MIL AND GREATER, THE MAXIMUM GAP TOLERANCE IS REDUCED TO 1/16".

SPLICING OF WALL STUDS OR HEADERS IS NOT ALLOWED, UNLESS NOTED OTHERWISE.

CONTRACTOR TO ENSURE PUNCH OUT ALIGNMENT WHEN ASSEMBLING LATERAL BRACING AND FIELD CUTTING STUDS TO LENGTH.

ALL HEADERS/BUILT-UP BEAMS ARE TO BE CONSTRUCTED WITH UNPUNCHED MATERIAL ONLY.

COLD-FORMED FRAMING CONNECTIONS SHALL BE AS FOLLOWS:

COLD-FORMED METAL FRAMING CONNECTIONS

FASTENER	PRODUCT
SCREWS	ELCO DRIL-FLEX OR HILTI KWIK-FLEX (ESR-3332)
PAF'S	HILTI X-U (ESR-2269)

FOR SCREWS, PROVIDE 3/4" MINIMUM CLEARANCE FROM ALL EDGES AND 3/4" MINIMUM CENTER TO CENTER SPACING.

FASTENERS OF COMPARABLE SPECIFICATIONS AND LOAD CAPACITIES MAY BE SUBMITTED FOR APPROVAL.

WELDING SHALL CONFORM WITH AWS D1.3.

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Date: 8/21/2024
Permit #: 24-010319-STR-01-CO

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Date	02/23/24
Project No.	221000

Revisions

NO.	DESCRIPTION	DATE

GENERAL STRUCTURAL NOTES CONT.

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GENERAL STRUCTURAL NOTES CONT.

MICROPILE NOTES

REFERENCE DOCUMENTS:

A. "RECOMMENDATIONS FOR PRESTRESSED ROCK AND SOIL PILES" BY THE POST-TENSIONING INSTITUTE, LATEST EDITION.

B. GEOTECHNICAL REPORT BY GEODESIGN DATED OCTOBER 10, 2018.

QUALITY ASSURANCE:
WORK SHALL BE DONE BY A FIRM SPECIALIZING IN THIS TYPE OF CONTRUCTION. THE FIRM SHALL:

A. REGULARLY AND PRESENTLY PERFORM MICROPILE INSTALLATION AS ONE OF THEIR PRINCIPAL SERVICES.

B. HAVE TECHNICAL QUALIFICATIONS, EXPERIENCE, TRAINING, AND EQUIPMENT TO PROPERLY INSTALL MICROPILES AS SHOWN.

PROJECT CONDITIONS:
THE CONTRACTOR SHALL FORMULATE THEIR OWN CONCLUSIONS AS TO THE EXTENT OF EXISTING SUBSURFACE CONSTRUCTION. ALL UTILITIES AND SUBSURFACE CONSTRUCTION MAY NOT BE SHOWN ON THESE DRAWINGS. CONTRACTOR HAS FULL RESPONSIBILITY TO AVOID SUBSURFACE UTILITIES AND CONSTRUCTION.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AND SHALL NOTIFY THE ARCHITECT AND ENGINEER OF ANY DISCREPANCIES PRIOR TO BEGINNING CONSTRUCTION.

ELEVATIONS SHOWN FOR TOP OF SHORING ARE APPROXIMATE. TOP OF SHORING ELEVATION IS TO BE COORDINATED WITH FIELD CONDITIONS. GROUND SURFACE ELEVATIONS MAY BE EXISTING OR REPRESENTATIVE OF EXCAVATED OR FILLED GRADES. ELEVATIONS SHOWN AT THE BOTTOM OF EXCAVATION LEVEL ARE APPROXIMATE DEPTH OF EXCAVATION REQUIRED FOR THE CONSTRUCTION OF THE FOUNDATION ADJACENT TO THE SHORING. NOTIFY THE ARCHITECT AND ENGINEER OF DISCREPANCIES IN ELEVATIONS AND OBTAIN DIRECTION BEFORE PROCEEDING.

SUBMITTALS:
SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION OF ALL STRUCTURAL ITEMS, INCLUDING THE FOLLOWING:

SUBMITTALS (1,2)			
ITEM	FOR REVIEW	FOR INFORMATION	COMMENTS
GROUT MIX DESIGNS	X		
THREADBAR, COUPLERS, NUTS, AND CASING PRODUCT DATA	X		
STEEL PLATE SHOP DRAWING	X		
INSTALLATION PROCEDURE	X		
QUALIFICATION DATA	X		

FOOTNOTES:

1. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION OF STRUCTURAL ITEMS. IF THE SHOP DRAWINGS DIFFER FROM OR ADD TO THE DESIGN OF THE STRUCTURAL DRAWINGS, THEY SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF OREGON. ANY CHANGES TO THE STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND ARE SUBJECT TO REVIEW AND ACCEPTANCE OF THE STRUCTURAL ENGINEER.

2. FIELD ENGINEERED DETAILS DEVELOPED BY THE CONTRACTOR THAT DIFFER FROM OR ADD TO THE STRUCTURAL DRAWINGS SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF OREGON AND SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO CONSTRUCTION.

SPECIAL INSPECTION:
REFER TO SPECIAL INSPECTION TABLES.

PILE PLACEMENT:
PILES SHALL BE PLACED WITH THE FOLLOWING TOLERANCES:

A. IN THE PLANE OF THE WALL THE TOP OF THE PILES SHALL BE PLACED +/- 3" FROM THE DESIGNATED LOCATION.

B. OUT OF THE PLANE OF THE WALL THE TOP OF THE PILE SHALL BE PLACED +/- 2" FROM THE DESIGNATED LOCATION.

C. OUT OF THE PLANE OF THE WALL THE TOP OF THE PILES SHALL BE PLACED +0"/- 3" FROM THE DESIGNATED LOCATION, WHERE POSITIVE IS TOWARD THE SOUTH.

D. PILES SHALL BE PLACED NOT MORE THAN L/120 OUT OF VERTICAL ALIGNMENT.

CENTRALIZERS AND SPACERS:
CENTRALIZERS AND SPACERS SHALL BE FABRICATED FROM PLASTIC, STEEL, OR MATERIAL THAT IS NON-DETRIMENTAL TO THE CORROSION PROTECTION OF THE THREADBAR. WOOD SHALL NOT BE USED. CENTRALIZERS AND SPACERS SHALL PERMIT GROUT TO FREELY FLOW DOWN THE DRILLED HOLE.

PILE INSTALLATION:
THE INSTALLATION OF THE PILES SHALL BE SUBJECT TO THE FOLLOWING VERIFICATION CRITERIA:

A. THE PILE HOLES SHALL BE DRILLED IN AN ACCEPTABLE MANNER, WITHOUT CAVING, SLOUGHING, OR LOSS OF GROUND.

B. TEMPORARY CASING OR OTHER METHODS TO PREVENT LOSS OF GROUND AND COLLAPSE OF THE HOLE DURING AND AFTER INSTALLATION SHALL BE USED WHERE NECESSARY.

C. PRIOR TO INSTALLATION OF PRODUCTION PILES, THE DESIGN PILE CAPACITY AND ACCEPTABLE MOVEMENTS SHALL BE VERIFIED BY FULL-SCALE VERIFICATION TESTS CONDUCTED IN GENERAL ACCORDANCE WITH SECTION 8.3.2 AS FOUND IN "RECOMMENDATIONS FOR ROCK & SOIL PILES", PTI, 2014. THE FIRST TWO PILES INSTALLED SHALL BE VERIFICATION TESTED. IF VARYING SOIL CONDITIONS ARE ENCOUNTERED PERFORM ADDITIONAL VERIFICATION TESTING AS DIRECTED BY THE GEOTECHNICAL ENGINEER.

D. COMPLETE VERIFICATION TESTING ACCORDING TO THE PROCEDURES OUTLINED IN THE VERIFICATION TESTING SECTION.

E. PROOF LOAD ALL PRODUCTION PILES ACCORDING TO THE PROCEDURES OUTLINED IN THE PROOF TESTING SECTION.

F. IF THE PILE IS NOT CAPABLE OF DEVELOPING THE REQUIRED TEST LOAD, THE ULTIMATE LOAD CAPACITY SHALL BE ESTABLISHED AS ZERO. THIS PILE SHALL BE REPLACED.

G. ADDITIONAL AND REPLACEMENT PILES SHALL BE INSTALLED WHEN NECESSARY, AND THE ALLOWABLE CAPACITY SHALL BE REDUCED IF NECESSARY BY A METHOD ACCEPTABLE TO THE ENGINEER TO ALLOW FOR INFLUENCE OF ADJACENT PILES.

PILE VERIFICATION TESTING:
PRIOR TO INSTALLING PRODUCTION PILES, CONDUCT A MINIMUM OF TWO SUCCESSFUL VERIFICATION TESTS ON PILES FOR EACH INSTALLATION METHOD AND SOIL TYPE ENCOUNTERED ON THE PROJECT. INSTALL THE TEST PILES BY THE SAME METHODS, PERSONNEL, MATERIALS, AND EQUIPMENT AS THE PRODUCTION PILES. CHANGES IN METHODS, PERSONNEL, MATERIALS, OR EQUIPMENT MAY REQUIRE ADDITIONAL VERIFICAITON TESTING AS DETERMINED BY THE ENGINEER. PERFORM TESTING AFTER THE GROUT HAS CURED FOR AT LEAST 72 HOURS OR ATTAINED AT LEAST THE SPECIFIED 3-DAY COMPRESSIVE STRENGTH. AN INDEPENDENT TESTING LABORATORY SHALL RECORD ALL TEST DATA. VERIFICATION TESTING SHALL BE MONITORED BY THE GEOTECHNICAL ENGINEER

THE MAXIMUM STRESS IN THE THREADBAR SHALL NOT EXCEED THE BAR YIELD STRESS DURING TESTING. PILES MAY REQUIRE LARGER DIAMETER OR HIGHER GRADE MATERIAL TO PERMIT STRESSING TO 200 PERCENT OF THE DESIGN TEST LOAD (DTL) AS REQUIRED BY THE VERIFICATION TEST. PILE DESIGN TEST LOADS SHALL BE THE DESIGN LOADS SHOWN ON THE DRAWINGS.

CONDUCT THE VERIFICATION TESTS BY INCREMENTALLY LOADING THE TEST PILES TO A MAXIMUM TEST LOAD OF 200 PERCENT OF DTL IN ACCORDANCE WITH THE FOLLOWING SCHEDULE. RECORD THE PILE MOVEMENTS AT EACH LOAD INCREMENT.

PILE TEST LOAD SCHEDULE	
LOAD	HOLD TIME
0.05 DTL (AL)	UNTIL STABLE
0.25 DTL	1 MINUTE
0.50 DTL	1 MINUTE
0.75 DTL	1 MINUTE
1.00 DTL	1 MINUTE
1.25 DTL	1 MINUTE
1.50 DTL (CREEP TEST)	60 MINUTES
1.75 DTL	1 MINUTES
2.00 DTL OR FAILURE	10 MINUTES

APPLY THE MINIMUM ALIGNMENT LOAD (AL) REQUIRED TO ALIGN THE TESTING APPARATUS, NOT TO EXCEED 5 PERCENT OF DTL. SET THE DIAL GAUGES TO "ZERO" AFTER THE ALIGNMENT LOAD HAS BEEN APPLIED. FOLLOWING THE APPLICATION OF THE MAXIMUM LOAD (2.00 DTL), REDUCE THE LOAD TO THE ALIGNMENT LOAD (0.05 DTL MAXIMUM) AND RECORD THE PERMANENT SET.

START THE VERIFICATION CREEP TEST PERIOD AS SOON AS THE CREEP TEST LOAD (1.50 DTL) IS APPLIED. MEASURE AND RECORD PILE MOVEMENTS DURING THE CREEP PORTION OF THE TEST IN INCREMENTS OF 1, 2, 3, 4, 5, 6, AND 10 MINUTES. MAINTAIN THE LOAD DURING THE CREEP TEST WITHIN 2 PERCENT OF THE INTENDED LOAD. WHERE THE PILE MOVEMENT BETWEEN 1 MINUTE AND 10 MINUTES EXCEEDS 0.040 INCHES, MAINTAIN THE MAXIMUM TEST LOAD FOR AN ADDITIONAL 50 MINUTES AND RECORD PILE MOVEMENTS AT 20, 30, 40, 50, AND 60 MINUTES. VERIFICATION TESTED PILES MAY BE USED AS PRODUCTION PILES IF THEY FULFILL THE ACCEPTANCE CRITERIA NOTED BELOW AND UPON APPROVAL BY THE ENGINEER.

PROOF TESTING:
COMPLETE PROOF TESTS ON ALL PRODUCTION PILES NOT SUBJECT TO A VERIFICATION TEST. THE MAXIMUM STRESS IN THE THREADBAR SHALL NOT EXCEED THE BAR YIELD STRESS. USE THE DTL SHOWN ON THE DRAWINGS.

CONDUCT THE PROOF TESTS BY INCREMENTALLY LOADING THE TEST PILES TO A MAXIMUM TEST LOAD OF 150 PERCENT OF DTL IN ACCORDANCE WITH THE FOLLOWING SCHEDULE. RECORD THE PILES MOVEMENTS AT EACH LOAD INCREMENT.

PROOF TEST LOAD SCHEDULE	
LOAD	HOLD TIME
0.05 DTL MAX. (AL)	1 MINUTE
0.25 DTL	1 MINUTE
0.50 DTL	1 MINUTE
0.75 DTL	1 MINUTE
1.00 DTL	1 MINUTE
1.25 DTL	1 MINUTE
1.50 DTL	CREEP TEST (SEE BELOW)

APPLY THE MINIMUM ALIGNMENT LOAD (AL) REQUIRED TO ALIGN THE TESTING APPARATUS, NOT TO EXCEED 5 PERCENT OF DTL. SET THE DIAL GAUGES TO "ZERO" AFTER THE ALIGNMENT LOAD HAS BEEN APPLIED.

START THE PROOF CREEP TEST PERIOD AS SOON AS THE MAXIMUM TEST LOAD (1.50 DTL) IS APPLIED. MEASURE AND RECORD PILE MOVEMENTS DURING THE CREEP PORTION OF THE TEST IN INCREMENTS OF 1, 2, 3, 4, 5, 6, AND 10 MINUTES. MAINTAIN THE LOAD DURING THE CREEP TEST WITHIN 2 PERCENT OF THE INTENDED LOAD. WHERE THE PILE MOVEMENT BETWEEN 1 MINUTE AND 10 MINUTES EXCEEDS 0.040 INCHES, MAINTAIN THE MAXIMUM TEST LOAD FOR AN ADDITIONAL 50 MINUTES AND RECORD PILE MOVEMENTS AT 20, 30, 40, 50, AND 60 MINUTES.

PILE TEST ACCEPTANCE CRITERIA:
A PILE IS CONSIDERED ACCEPTABLE WHEN ALL OF THE FOLLOWING CRITERIA ARE MET:

A. FOR VERIFICATION TESTS, THE TOTAL CREEP MOVEMENT IS LESS THAN 0.040 INCHES BETWEEN THE 1 AND 10 MINUTE READINGS OR THE TOTAL CREEP MOVEMENT IS LESS THAN 0.080 INCHES BETWEEN THE 6 AND 60 MINUTE READINGS, AND THE CREEP RATE IS LINEAR OR DECREASING THROUGHOUT THE CREEP TEST LOAD HOLD PERIOD.

B. FOR PROOF TESTS, THE TOTAL CREEP MOVEMENT IS LESS THAN 0.040 INCHES BETWEEN 1 AND 10 MINUTES, OR THE TOTAL CREEP MOVEMENT IS LESS THAN 0.080 INCHES BETWEEN 6 AND 60 MINUTES READINGS, AND THE CREEP RATE IS LINEAR OR DECREASING THROUGHOUT THE CREEP TEST LOAD HOLD PERIOD.

C. FOR VERIFICATION AND PROOF TESTS, THE TOTAL MEASURED MOVEMENT AT THE MAXIMUM TEST LOAD EXCEEDS 80 PERCENT OF THE THEORETICAL ELASTIC ELONGATION OF THE UNBONDED LENGTH.

D. A PULLOUT FAILURE DOES NOT OCCUR. PULLOUT FAILURE IS DEFINED AS THE INABILITY TO FURTHER INCREASE THE TEST LOAD WHILE THERE IS CONTINUED PULLOUT MOVEMENT OF THE TEST PILE OR THE NON-ELASTIC MOVEMENT EXCEEDS 2 INCHES. RECORD THE PULLOUT FAILURE LOAD AS PART OF THE TEST DATA.

PILE TEST REJECTION:
A PILE MAY BE REJECTED IF IT DOES NOT MEET THE FOLLOWING CRITERION:

A. FOR VERIFICATION TESTS, THE ENGINEER WILL EVALUATE THE RESULTS OF EACH VERIFICATION TEST. INSTALLATION METHODS THAT DO NOT SATISFY THE TESTING REQUIREMENTS WILL BE REJECTED. THE CONTRACTOR SHALL PROPOSE ALTERNATIVE METHODS AND INSTALL REPLACEMENT VERIFICATION TEST PILES.

B. FOR PROOF TESTS, THE ENGINEER MAY REQUIRE THE CONTRACTOR TO REPLACE SOME OR ALL OF THE INSTALLED PRODUCTION PILES BETWEEN A FAILED PROOF TEST AND THE ADJACENT PASSING PROOF TEST. ALTERNATIVELY, THE ENGINEER MAY REQUIRE THE INSTALLATION AND TESTING OF ADDITIONAL PROOF TEST PILES TO VERIFY THE ADJACENT PREVIOUSLY INSTALLED PRODUCTION PILES HAVE SUFFICIENT LOAD-CARRYING CAPACITY.

MICROPILE LOAD TEST EQUIPMENT

A. MEASURE THE LOAD IN THE MICROPILE WITH A PRESSURE GAUGE CALIBRATED WITH THE JACK AND ACCURATE ENOUGH TO READ 100 PSI PRESSURE INCREMENTS. THE PUMP SHALL BE CAPABLE OF APPLYING EACH LOAD INCREMENT IN LESS THAN 60 SECONDS.

B. MEASURE THE MICROPILE PILE MOVEMENT WITH A MINIMUM OF 2 DIAL GAUGES CAPABLE OF MEASURING TO 0.001 INCHES.

PILE GROUT:
PILE GROUT SHALL CONSIST OF NEAT CEMENT, OR CEMENT AND SAND, AND WATER AND SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF f'c = 4,000 PSI AT 28 DAYS. DESIGN OF PILE GROUT IS THE RESPONSIBILITY OF THE CONTRACTOR.

ADMIXTURES THAT CONTROL BLEED, IMPROVE FLOWABILITY, REDUCE WATER CONTENT AND RETARD SET MAY BE USED IN THE GROUT. ACCELERATORS SHALL NOT BE PERMITTED IN THE GROUT. ALL ADMIXTURES USED SHALL BE COMPATIBLE WITH REINFORCING STEEL AND SHALL BE MIXED IN ACCORDANCE WITH THE MANUFACTURER'S RECCOMENDATIONS.

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Date: 8/21/2024
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Date 02/23/24
Project No. 221000

Revisions

NO.	DESCRIPTION	DATE

GENERAL STRUCTURAL NOTES CONT.

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SPECIAL INSPECTIONS AND TESTING

SPECIAL INSPECTION AND TESTING NOTES:

1. SPECIAL INSPECTIONS SHALL CONFORM TO SECTION 1705 OF THE 2022 OSSC, CONTRACT DOCUMENTS AND APPROVED SUBMITTALS. REFER TO SPECIAL INSPECTION AND TESTING TABLES FOR PROJECT REQUIREMENTS.

2. SPECIAL INSPECTIONS AND ASSOCIATED TESTING SHALL BE PERFORMED BY AN APPROVED ACCREDITED INDEPENDENT AGENCY MEETING THE REQUIREMENTS OF ASTM E329 (MATERIALS). THE INSPECTION AND TESTING AGENCY SHALL FURNISH TO THE STRUCTURAL ENGINEER ARCHITECT A COPY OF THEIR SCOPE OF ACCREDITATION. SPECIAL INSPECTORS SHALL BE APPROVED BY THE BUILDING OFFICIAL. WELDING INSPECTORS SHALL BE QUALIFIED PER SECTION 6.1.4.1(1) OF AWS D1.1.

3. THE SPECIAL INSPECTOR SHALL OBSERVE THE INDICATED WORK FOR COMPLIANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION AND NOTED IN THE INSPECTION REPORTS.

4. THE SPECIAL INSPECTOR AND GEOTECHNICAL ENGINEER SHALL FURNISH INSPECTION REPORTS FOR EACH INSPECTION TO THE BUILDING OFFICIAL, STRUCTURAL ENGINEER, ARCHITECT, CONTRACTOR, AND OWNER. THE SPECIAL INSPECTION AGENCY SHALL SUBMIT A FINAL REPORT STATING THAT THE WORK REQUIRING SPECIAL INSPECTION WAS INSPECTED AND IS IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS AND THAT ALL DISCREPANCIES NOTED IN THE INSPECTION REPORTS HAVE BEEN CORRECTED.

5. QUALITY ASSURANCE (QA) IS REQUIRED FOR STRUCTURAL STEEL ITEMS PER AISC 360 AND 341 UNLESS SPECIFICALLY NOTED OTHERWISE. QUALITY CONTROL (QC) TO BE PROVIDED BY THE FABRICATOR, ERECTOR OR OTHER RESPONSIBLE CONTRACTOR AS APPLICABLE. CONTRACTOR AND SPECIAL INSPECTOR TO DOCUMENT QUALITY CONTROL AS REQUIRED IN AISC 360 SECTION N3 AND AISC 341 SECTION J2.

6. **INSPECTION TYPES:**
   CONTINUOUS : THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED.
   PERIODIC : THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK.
   OBSERVE : OBSERVE THESE FUNCTIONS ON A RANDOM, DAILY BASIS. OPERATIONS NEED NOT BE DELAYED PENDING OBSERVATIONS.
   PERFORM : INSPECTIONS SHALL BE PERFORMED PRIOR TO THE FINAL ACCEPTANCE OF THE ITEM.

7. PERFORM INSPECTION PRIOR TO FINAL ACCEPTANCE OF THE ITEM FOR TEN WELDS TO BE MADE BY A GIVEN WELDER, WITH THE WELDER DEMONSTRATING UNDERSTANDING OF REQUIREMENTS AND POSSESSION OF SKILLS AND TOOLS TO VERIFY THESE ITEMS. THE PERFORM DESIGNATION OF THIS TASK SHALL BE REDUCED TO OBSERVE, AND THE WELDER SHALL PERFORM THIS TASK. SHOULD THE INSPECTOR DETERMINE THAT THE WELDER HAS DISCONTINUED PERFORMANCE OF THIS TASK, THE TASK SHALL BE RETURNED TO PERFORM UNTIL SUCH TIME AS THE INSPECTOR HAS RE-ESTABLISHED ADEQUATE ASSURANCE THAT THE WELDER WILL PERFORM THE INSPECTION TASKS LISTED.

8. SPECIAL INSPECTION OF MECHANICAL POST INSTALLED ANCHORS SHALL BE IN STRICT CONFORMANCE WITH THE ICC REPORT AND MANUFACTURER'S INSTALLATION REQUIREMENTS. ANCHOR INSTALLERS SHALL BE QUALIFIED AS REQUIRED BY JURISDICTION REQUIREMENTS.
   - INSPECTION REPORTS SHALL IDENTIFY NAMES OF INSTALLERS.
   - SPECIAL INSPECTOR SHALL PROVIDE DOCUMENTATION AT THE END OF ANCHOR INSTALLATIONS STATING THAT THE ANCHORS WERE INSPECTED PER APPROVED ANCHOR EVALUATION REPORT.

9. **TESTING ABBREVIATIONS:**
   NDT - NON-DESTRUCTIVE TESTING
   C.J.P. - COMPLETE JOINT PENETRATION
   MT - MAGNETIC PARTICLE TESTING

10. DOCUMENT (D): INDICATES CONTRACTOR AND SPECIAL INSPECTOR TO PROVIDE DOCUMENTATION IN ACCORDANCE WITH AISC 341.

11. CAPACITY

CONTRACTOR RESPONSIBILITY:

EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF THE SEISMIC-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM OR A SEISMIC-RESISTING COMPONENT LISTED THE TABLES SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING:

ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS.

1. ACKNOWLEDGEMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.

2. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND DISTRIBUTION OF THE REPORTS.

3. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.

GENERAL - SPECIAL INSPECTIONS

SYSTEM OR MATERIAL	OSSC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6)		REMARKS
			CONTINUOUS	PERIODIC	
FABRICATORS	1705.11 1704.2.5				SPECIAL INSPECTION IS REQUIRED FOR STRUCTURAL LOAD-BEARING MEMBERS AND ASSEMBLIES FABRICATED ON THE PREMISES OF A FABRICATOR'S SHOP. SPECIAL INSPECTIONS SHALL BE PERFORMED DURING FABRICATION. PERFORMING SPECIAL INSPECTIONS IS NOT REQUIRED, WHERE FABRICATOR HAS BEEN APPROVED AS AN APPROVED FABRICATOR, PER SECTION 1704.2.5.1.
DEFERRED SUBMITTALS				X	SPECIAL INSPECTION REQUIREMENTS FOR DEFERRED SUBMITTAL ITEMS, INCLUDING REQUIREMENTS FOR DESIGNATED SEISMIC SYSTEMS IN ACCORDANCE WITH OSSC SECTION 1705.13.4 IF APPLICABLE, TO BE SPECIFIED BY THE SYSTEM ENGINEER AND INCLUDED WITH DEFERRED SUBMITAL DOCUMENTS.
SUBMITTALS TO THE BUILDING OFFICIAL	1704.5			X	CERTIFICATES OF COMPLIANCE, REPORTS OF PRE-CONSTRUCTION TESTS, OR REPORTS OF MATERIAL PROPERTIES SHALL BE SUBMITTED TO THE BUILDING OFFICIAL.
FIBER-REINFORCED COMPOSITE SYSTEMS	1705.1.1	AC178		X	MATERIALS AND INSTALLATION SPECIAL INSPECTIONS PER ICC REPORT
POST INSTALLED ADHESIVE ANCHORS WITH SUSTAINED TENSION LOADS INSTALLED HORIZONTALLY OR AT AN UPWARD INCLINE IN HARDENED CONCRETE		ACI 318: 17.2.5	X		Note 8
POST INSTALLED MECHANICAL ANCHORS AND ADHESIVE ANCHORS (EXCLUDING CONDITIONS NOTED ABOVE) IN HARDENED CONCRETE				X	

SOILS/GEOTECHNICAL - SPECIAL INSPECTIONS

SYSTEM OR MATERIAL	OSSC CODE REFERENCE	CODE OR STANDARDS REFERENCE	FREQUENCY (NOTE 6)		REMARKS
			CONTINUOUS	PERIODIC	
SOILS					
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	1705.6	GEOTECHNICAL REPORT		X	BY THE GEOTECHNICAL ENGINEER OR QUALIFIED SPECIAL INSPECTOR
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL				X	
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS				X	
DURING FILL PLACEMENT, VERIFY USE OF PROPER MATERIALS AND PROCEDURES IN ACCORDANCE WITH THE PROVISIONS OF THE APPROVED GEOTECHNICAL REPORT. VERIFY DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL			X		
PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY				X	
MICROPILES					
INSPECT DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT	1705.8	GEOTECHNICAL REPORT	X		BY THE GEOTECHNICAL ENGINEER
VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENT DIAMETERS, LENGTHS, EMBEDMENT INTO BEARING LAYER AND ADEQUATE END BEARING STRATA CAPACITY. RECORD GROUT VOLUMES			X		BY THE GEOTECHNICAL ENGINEER
FOR CONCRETE ELEMENTS, PERFORM TESTS AND ADDITIONAL SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.3.	1705.3 1705.8				REFER TO CONCRETE INSPECTION AND TESTING TABLES FOR CONCRETE RELATED SPECIAL INSPECTIONS AND TESTING BY SPECIAL INSPECTOR
VERIFY MICROPILE MATERIALS, SIZES AND LENGTHS COMPLY WITH THE REQUIREMENTS	1705.8	GEOTECHNICAL REPORT	X		OBSERVATION BY GEOTECHNICAL ENGINEER
DETERMINE CAPACITIES OF TEST MICROPILES AND CONDUCT ADDITIONAL LOAD TESTS AS REQUIRED			X		
OBSERVE DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH MICROPILE			X		
VERIFY PLACEMENT LOCATINOS AND PLUMBNESS, CONFIRM ELEMENT TYPES, DIAMETERS, LENGTHS, EMBEDMENT IN BEARING LAYER, AND VERIFY CAPACITY. RECORD GROUT VOLUMES			X		
PERFORM ADDITIONAL MATERIAL INSPECTIONS	1705.3 1705.8		-	-	REFER TO CONCRETE INSPECTION AND TESTING TABLES FOR MATERIAL INSPECTION AND TESTING

SOILS/GEOTECHNICAL - TESTING

SYSTEM OR MATERIAL	OSSC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6)		REMARKS
			CONTINUOUS	PERIODIC	
FILL IN-PLACE DENSITY OR PREPARED SUBGRADE DENSITY	1705.6	VARIES; GEOTECHNICAL REPORT OR MINIMUM PER OSSC APPENDIX J107.5, WHICHEVER IS GREATER		X	BY THE GEOTECHNICAL ENGINEER OR QUALIFIED SPECIAL INSPECTOR
MATERIAL VERIFICATION		VARIES; CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS		X	BY THE GEOTECHNICAL ENGINEER OR QUALIFIED SPECIAL INSPECTOR
MICROPILES	1705.1 1705.7 1705.8 1705.9	PTI	REFERENCE SPECIFICATIONS FOR PERFORMANCE VARIFICATION AND PROOF LOAD TESTING REQUIREMENTS		BY THE GEOTECHNICAL ENGINEER. SCOPE OF TESTING AS NOTED IN THE GENERAL STRUCTURAL NOTES.

CONCRETE - SPECIAL INSPECTIONS

SYSTEM OR MATERIAL	OSSC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6)		REMARKS
			CONTINUOUS	PERIODIC	
GENERAL	1705.3 1901.6	ACI 318: 26.13			SPECIAL INSPECTIONS OF CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF SECTION 1705.3 OF THE IBC AND SECTION 26.13 OF ACI 318.
REINFORCING STEEL PLACEMENT	1901.5	ACI 318: CH. 20, 25.2, 25.3, 26.6.1-26.6.3, 26.13.3.3		X	REINFORCING TO COMPLY WITH ALL CODE PROTECTION, SPACING AND TOLERANCE LIMITS.
WELDING REINFORCING STEEL/SPLICING	TABLE 1705.2-6 1705.3.1 1705.3.2 1903.1 1903.2	AWS D1.4 ACI 318: 26.6.4			
VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A706				X	
INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16" FILLET				X	
REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL STRUCUTRAL WALLS OF CONCRETE AND SHEAR REINFORCEMENT.			X		
SHEAR REINFORCEMENT			X		
OTHER REINFORCING STEEL				X	
INSPECT ANCHORS/BOLTS CAST IN CONCRETE	-	ACI 318: 26.13.3.3(g)		X	ALL CAST-IN-PLACE ANCHORS/BOLTS SHALL BE VISUALLY INSPECTED. REFERENCE STEEL INSPECTIONS FOR ADDITIONAL INSTALLATION, MATERIAL AND WELDING INSPECTIONS OF STEEL ITEMS EMBEDDED IN CONCRETE (HEADED STUDS, DBA's, ETC.)
VERIFYING USE OF REQUIRED MIX DESIGN(S)	1904.1 1904.2	ACI 318: CH. 19, 26.4.3, 26.4.4		X	
CONCRETE SPECIMENS FOR TESTING		ASTM C172 ASTM C31 ACI 318: 26.5, 26.12	X		PRIOR TO CONCRETE PLACEMENT, FABRICATE CONCRETE SPECIMENS FOR TESTING. SEE THE CONCRETE TESTING TABLE FOR ADDITIONAL INFORMATION.
CONCRETE/SHOTCRETE PLACEMENT		ACI 318: 26.5, 26.13.3.2(a)	X		
CONCRETE/SHOTCRETE CURING		ACI 318: 26.5.3 - 26.5.5, 26.13.3.3		X	VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURES AND TECHNIQUES
VERIFICATION OF FORMWORK		ACI 318: 26.11.1.2(b), 26.13.3.3		X	SPECIAL INSPECTIONS APPLY TO SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED
EMBEDDED ITEMS IN CONCRETE				X	ALL NON-STRUCTURAL EMBEDDED ITEMS, SUCH AS CONDUITS, PIPES AND SLEEVES, SHALL BE REVIEWED FOR CONFORMANCE WITH STRUCTURAL DOCUMENTS FOR SIZE, SPACING, LOCATION, EDGE DISTANCE AND TRIM REINFORCING.
REINFORCING STEEL MECHANICAL COUPLERS, TERMINATORS AND FORMSAVERS		ICC EVALUATION REPORTS		X	
BRICK VENEER ANCHORS - SPECIAL INSPECTIONS					
HELIFIX DRYFIX ANCHORS	1705.13.5			X	
FIBER REINFORCED POLYMER (FRP) - SPECIAL INSPECTIONS					
FRP INSTALLATION		SPECIFICATION AND ICC EVALUATION REPORT, AC178		X	SPECIAL INSPECTION OF FRP SHALL CONFORM TO THE REQUIREMENTS CONTAINED IN THE SPECIFICATION AND PRODUCT ICC EVALUATION REPORT. CONTINUOUS SPECIAL INSPECTION SHALL BE PROVIDED WHEN REQUIRED BY THE ICC EVALUATION REPORT

City of Portland
Reviewed for Code Compliance
Date: 8/21/2024
Permit #: 24-020319-STR-01-CO

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Date	02/23/24
Project No.	221000

Revisions

NO.	DESCRIPTION	DATE

SPECIAL INSPECTIONS AND TESTING

S0.05

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SPECIAL INSPECTIONS AND TESTING CONT.

CONCRETE - TESTING

SYSTEM OR MATERIAL	OSSC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6)	REMARKS
CONCRETE STRENGTH	1705.3 ASTM C172 ASTM C 31 ACI 318.26.12 ACI 318.26.5	ASTM C39	EACH 150 CY NOR LESS THAN EACH 5000 SF OF SLAB OR WALL PLACED EACH SHIFT	FABRICATE SPECIMENS AT TIME FRESH CONCRETE IS PLACED
CONCRETE SLUMP		ASTM C143		
CONCRETE AIR CONTENT		ASTM C231		
CONCRETE TEMPERATURE		ASTM C1064		
SHOTCRETE STRENGTH	1704.5	ASTM C42 ASTM C1140 ACI 26.12.3 ACI 26.12.4	EACH 50 CY NOR LESS THAN EACH 5000 SF OF WALL PLACED EACH SHIFT	UNREINFORCED SPECIMEN TAKEN FROM THE IN-PLACE OR FROM UNREINFORCED TEST PANELS
SHOTCRETE TEST PANEL	1704.5	ACI 506.2 ASTM C 1140 ACI 26.12.3 ACI 26.12.4	PANELS SHALL BE PROVIDED FOR EACH NOZZLEMAN, MIX DESIGN AND SHOT ANGLE USED ON THE PROJECT	PANEL SIZE AND QUANTITY SHALL BE AS REQUIRED TO OBTAIN REQUIRED CONFORMING TEST CYLINDERS AND MINIMUM SIZES PER PROJECT AND CODE REQUIREMENTS
FIBER REINFORCED POLYMER (FRP) - TESTING (2)				
FRP - PRECURED AND WET LAY-UP SYSTEMS	1705.1.1	SPECIFICATION AND ICC EVALUATION REPORT, AC178		TESTING OF FRP SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATION AND ICC EVALUATION REPORT

STRUCTURAL STEEL - SPECIAL INSPECTIONS

SYSTEM OR MATERIAL	OSSC CODE REFERENCE	CODE OR STANDARD REFERENCE	INSPECTION (NOTES 5 AND 6)		REMARKS
			CONTINUOUS/ PERFORM	PERIODIC/ OBSERVE	
STEEL FABRICATION					
FABRICATION OF STRUCTURAL ELEMENTS	1704.2.5.1	AISC 360		X	REFER TO INSPECTION OF FABRICATOR REQUIREMENTS
MATERIAL VERIFICATION OF STRUCTURAL STEEL COMPONENTS	1705.2.1 TABLE 1705.2-3	ASTM A6 ASTM STANDARDS SPECIFIED IN CONSTRUCTION DOCUMENTS AISC 360 A3.1 AISC 360 N2.1 AISC 360 N3.2		X	CERTIFIED MILL TEST REPORTS IDENTIFICATION MARKINGS TO CONFORM TO AISC 360 AND ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS
MATERIAL VERIFICATION OF HIGH STRENGTH BOLTS, NUTS, AND WASHERS	1705.2.1.1 AISC 360 N5 TABLE 1705.2-1	AISC 360 A3.3 AISC 360 N3.2 ASTM STANDARDS SPECIFIED IN CONSTRUCTION DOCUMENTS RCSC 2.1		X	MANUFACTURER'S CERTIFIED TEST REPORTS IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS AND SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS MANUFACTURER'S CERTIFICATE OF COMPLIANCE
MATERIAL VERIFICATION OF ANCHOR BOLTS AND THREADED RODS		AISC 360 A3.4 AISC 360 N3.2 ASTM STANDARDS SPECIFIED IN CONSTRUCTION DOCUMENTS		X	MANUFACTURER'S CERTIFIED TEST REPORTS
MATERIAL VERIFICATION OF WELD FILLER METALS	1705.2.1.1 TABLE 1705.2-5	AISC 360 A3.5 AISC 360 N3.2 APPLICABLE AWS A5 DOCUMENTS		X	MANUFACTURER'S CERTIFICATE OF COMPLIANCE IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPORVED CONSTRUCTION DOCUMENTS
STRUCTURAL STEEL WELDING					
VERIFYING USE OF PROPER WPS'S	1705.2.1 AWS D1.1	AISC 360 N3.2			RETAIN A RECORD OF WELDING PROCEDURE SPECIFICATIONS
VERIFYING WELDER QUALIFICATIONS		AWS D1.1		X	RETAIN A RECORD OF QUALIFICATION CARDS
COMPLETE AND PARTIAL JOINT PENETRATION GROOVE WELDS	TABLE 1705.2-6	AWS D1.1 CLAUSE 6	X		
MULTIPASS FILLET WELDS			X		
SINGLE PASS FILLET WELDS GREATER THAN 5/16"			X		ALL WELDS VISUALLY INSPECTED PER AWS D1.16.9
PLUG AND SLOT WELDS			X		
SINGLE PASS FILLET WELDS LESS THAN OR EQUAL TO 5/16"				X	
WELDING RAILING SYSTEMS	1705.2(2.5)	AWS D1.1 CLAUSE 6		X	BASE WELDS OF THE CANTILEVERED RAIL POSTS REQUIRE VISUAL INSPECTION PER AWS D1.1 6.9
VERIFICATION OF JOINT & APPLICATION OF CONNECTION DETAILS INCLUDING MEMBER AND COMPONENT LOCATIONS, BRACING, AND STIFFENERS	TABLE 1705.2-7	AWS D1.1		X	
PLACEMENT AND INSTALLATION OF STEEL HEADED STUDS IN COMPOSITE SLABS INSTALLED WITH AN AUTOMATIC TIMED STUD WELDING MACHINE	1705.2 (3)	AWS D1.1 CLAUSE 7		X	SIZE, SPACING AND WELDS OF HEADED STUDS ON GRAVITY BEAMS
PLACEMENT AND INSTALLATION OF STEEL HEADED STUDS IN COMPOSITE SLABS HAND WELDED	1705.2 (2.3)	AWS D1.1 CLAUSE 7	X		SIZE, SPACING AND WELDS OF HEADED STUDS ON GRAVITY BEAMS
FIELD INSTALLED DBA'S IN DIAPHRAGMS		AWS D1.1 CLAUSE 7		X	SEE STEEL-LATERAL TABLE FOR DBA'S PART OF THE LFRS. NO REQUIREMENTS FOR SHOP INSTALLED DBA'S
WELDED REBAR ANCHORS IN DIAPHRAGMS		AWS D1.4		X	SEE STEEL-LATERAL TABLE FOR WELDED ANCHORS PART OF THE LFRS. PER GSN #6 AND LARGER BARS ARE TO BE WELDED.
HIGH-STRENGTH BOLTING					
SNUG-TIGHT BOLT INSTALLATION	1705.2.1 TABLE 1705.2 AISC 360 M2.5 AISC 360 N5.6	RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS SECTION 9 AISC 360 SECTION M2.5		X	ALL CONNECTIONS VISUALLY INSPECTED AND VERIFIED SNUG
PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-THE-NUT METHOD WITH MATCHMARKING, DIRECT TENSION INDICATOR METHOD, OR TWIST-OFF TYPE TENSION CONTROL BOLT METHOD				X	ALL CONNECTIONS VISUALLY INSPECTED, CONNECTIONS USING DIRECT TENSION INDICATORS, ALL BOLTS SHALL BE INSPECTED AFTER SNUGGING AND AFTER PRETENSIONING
PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-THE-NUT METHOD WITHOUT MATCHMARKING OR CALIBRATED WRENCH METHOD			X		ALL CONNECTIONS VISUALLY INSPECTED
INSPECTION TASKS PRIOR TO BOLTING					
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	1705.2.1.2 TABLE 1705.2	AISC 360 TABLE N5.6-1 AISC 360 M2.5	X		
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS				X	
CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH, IF THREADS ARE TO BE EXCLUDED FROM THE SHEAR PLANE)				X	
CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL				X	
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS				X	
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED				X	
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS				X	
INSPECTION TASKS DURING BOLTING					
FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS AND NUTS ARE POSITIONED AS REQUIRED	1705.2.1.2 TABLE 1705.2-2	AISC 360 TABLE N5.6-2 AISC M2.5 RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS SECTION 9		X	
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION				X	
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING				X	
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES				X	
INSPECTION TASKS AFTER BOLTING					
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	1705.2.1.2 TABLE 1705.2	AISC 360 TABLE N5.6-3	X		

STRUCTURAL STEEL SFRS - SPECIAL INSPECTIONS

SYSTEM OR MATERIAL	OSSC CODE REFERENCE	CODE OR STANDARD REFERENCE	QA/QC TASKS (NOTES 5,6,10)		REMARKS
			PERFORM	OBSERVE	
VISUAL INSPECTION TASKS PRIOR TO WELDING					
MATERIAL IDENTIFICATION (TYPE/GRADE)	1705.13.1	AISC 341 TABLE J6.1 AWS D1.8/D1.8M		X	
WELDER IDENTIFICATION SYSTEM				X	
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)					
JOINT PREPARATION				X	NOTE 7
DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)				X	
CLEANLINESS (CONDITION OF STEEL SURFACES)				X	
TACKING (TACK WELD QUALITY AND LOCATION)				X	
BACKING TYPE AND FIT (IF APPLICABLE)				X	
CONFIGURATION AND FINISH OF ACCESS HOLES				X	
FIT-UP OF FILLET WELDS					
DIMENSIONS (ALIGNMENT, GAPS AT ROOT)				X	
CLEANLINESS(CONDITION OF STEEL SURFACES)				X	NOTE 7
TACKING (TACK WELD QUALITY AND LOCATION)				X	
VISUAL INSPECTION TASKS DURING WELDING					
WPS FOLLOWED	1705.13.1	AISC 341 TABLE J6.2 AWS D1.8/D1.8M			
SETTINGS ON WELDING EQUIPMENT				X	
TRAVEL SPEED				X	
SELECTED WELDING MATERIALS				X	
SHIELDING GAS TYPE/FLOW RATE				X	
PREHEAT APPLIED				X	
INTERPASS TEMPERATURE MAINTAINED (MIN/MAX.)				X	
PROPER POSITION (F, V, H, OH)				X	
INTERMIX OF FILLER METALS AVOIDED UNLESS APPROVED				X	
USE OF QUALIFIED WELDERS				X	
CONTROL AND HANDLING OF WELDING CONSUMABLES					
PACKAGING				X	
EXPOSURE CONTROL				X	
ENVIRONMENTAL CONDITIONS					
WIND SPEED WITHIN LIMITS				X	
PRECIPITATION AND TEMPERATURE				X	
WELDING TECHNIQUES					
INTERPASS AND FINAL CLEANING				X	
EACH PASS WITHIN PROFILE LIMITATIONS				X	
EACH PASS MEETS QUALITY REQUIREMENTS				X	
NO WELDING OVER CRACKED TACKS				X	
FIELD INSTALLED DBA'S IN DIAPHRAGMS		AWS D1.1 CLAUSE 7	X		
WELDED REBAR ANCHORS IN DIAPHRAGMS		AWS D1.4	X		#6 AND LARGER BARS ARE TO BE WELDED
VISUAL INSPECTION TASKS AFTER WELDING					
WELDS CLEANED	1705.13.1	AISC 341 TABLE J6.3 AWS D1.8/D1.8M		X	(D)DOCUMENT - THE INSPECTOR SHALL PREPARE REPORTS INDICATING THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. * WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES, OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 INCHES OF THE WELD. THE VISUAL INSPECTION SHALL BE PERFORMED NO SOONER THAN 48 HOURS FOLLOWING COMPLETION OF THE WELDING
SIZE, LENGTH, AND LOCATION OF WELDS			X		
WELDS MEET VISUAL ACCEPTANCE CRITERIA					
CRACK PROHIBITION			X(D)		
WELD/BASE-METAL FUSION			X(D)		
CRATER CROSS SECTION			X(D)		
WELD PROFILE AND SIZE			X(D)		
UNDERCUT			X(D)		
POROSITY			X(D)		
K-AREA *			X(D)		
PLACEMENT OF REINFORCING OR CONTOURING FILLET WELDS (IF REQUIRED)			X(D)		
BACKING REMOVED, WELD TABS REMOVED AND FINISHED, AND FILLET WELDS ADDED (IF REQUIRED)			X(D)		
REPAIR ACTIVITIES			X(D)		

STRUCTURAL STEEL - TESTING

SYSTEM OR MATERIAL	OSSC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6)	REMARKS
ULTRASONIC (UT) TESTING OF WELDS	1705.2.1	AWS D1.1 6.13 & 6.14.3	PER AISC 360 N5.5	ALL C.J.P. WELDS IN MATERIAL 5/16" AND THICKER REQUIRE UT TESTING.
PRE-CONSTRUCTION TESTING OF WELDING STUDS, WELDED REINFORCING BARS AND DBA'S	1705.2.1	AWS D1.1 7.7.1	EACH SIZE AND TYPE OF STUD/BAR EACH SHIFT	THIS TESTING PERFORMED BY CONTRACTOR AND CONFIRMED BY SPECIAL INSPECTOR
STUD/DBA APPLICATION QUALIFICATION	1705.2.1	AWS D1.1 7.6	NON-PREQUALIFIED APPLICATIONS	THIS TESTING PERFORMED BY CONTRACTOR AND CONFIRMED BY SPECIAL INSPECTOR
PRE-INSTALLATION VERIFICATION OF PRETENSIONED HIGH STRENGTH BOLTS	1705.2.1	RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS SECTION 7	EACH COMBINATION OF DIAMETER, LENGTH, GRADE, AND LOT TO BE USED IN THE WORK	

STRUCTURAL STEEL SFRS - TESTING

SYSTEM OR MATERIAL	OSSC CODE REFERENCE	CODE OR STANDARD REFERENCE	DESCRIPTION/FREQUENCY	REMARKS
2a) CJP GROOVE WELD NDT	1705.13.1	AISC 341 SECTION J6	UT SHALL BE PERFORMED ON 5/16" THICKNESS AND GREATER. MT SHALL BE PERFORMED ON 25% OF ALL BEAM-TO-COLUMN CJP GROOVE WELDS.	WELD DISCONTINUITIES SHALL BE ACCEPTED OR REJECTED ON THE BASIS OF CRITERIA OF AWS D1.1/D1.1M TABLE 6.2. UT TESTING NOT REQUIRED ON THICKNESS LESS THAN 5/16"

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Revisions

NO.	DESCRIPTION	DATE
2	Revision 2	07-10-24

SPECIAL INSPECTIONS AND TESTING CONT.

S0.06

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SPECIAL INSPECTIONS AND TESTING CONT.

COLD FORMED STEEL DECK - SPECIAL INSPECTIONS

SYSTEM OR MATERIAL	OSSC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6)		REMARKS
			CONTINUOUS	PERIODIC	
COLD FORMED STEEL DECK	1705.2.2	SDI QA/QC			COMPOSITE AND NON-COMPOSITE FLOOR & ROOF DECKS
INSPECTION PRIOR TO DECK PLACEMENT					
MATERIAL IDENTIFICATION	1705.2.2	SDI QA/QC TABLE1.1	X		(TYPE/GRADE/PROFILE/THICKNESS)
DOCUMENT MATERIAL IDENTIFICATION					
INSPECTION AFTER DECK PLACEMENT					
DECK AND DECK ACCESSORIES INSTALLED WITH CONSTRUCTION DOCUMENTS	1705.2.2	SDI QA/QC TABLE1.2	X		
DECK MATERIALS REPRESENTED BY MILL CERTS AND COMPLY WITH CONSTRUCTION DOCUMENTS					
DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND ACCESSORIES					
INSPECTION PRIOR TO WELDING					
WPSs AVAILABLE	1705.2.2	SDI QA/QC TABLE1.3		X	
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR WELDING CONSUMABLES					
MATERIAL IDENTIFICATION (TYPE/GRADE)					
WELDING EQUIPMENT CHECK					
INSPECTION DURING WELDING					ALL WELDS VISUALLY INSPECTED PER AWS D1.3
USE OF QUALIFIED WELDERS	1705.2.2	SDI QA/QC TABLE1.4		X	
CONTROL AND HANDLING OF WELDING CONSUMABLES					PACKAGING / EXPOSURE CONTROL
ENVIRONMENTAL CONDITIONS					WIND SPEED, PRECIPITATION AND TEMPERATURE
WPS FOLLOWED					VERIFY ESSENTIAL VARIABLES
INSPECTION AFTER WELDING					
SIZE, LENGTH, AND LOCATION OF WELDS	1705.2.2	SDI QA/QC TABLE1.5	X		
WELDS MEET VISUAL ACCEPTANCE CRITERIA					ALL WELDS VISUALLY INSPECTED PER AWS D1.3
VERIFY REPAIR ACTIVITIES					
DOCUMENT ACCEPTANCE OR REJECTION OF WELDS					
INSPECTION PRIOR TO MECHANICAL FASTENING					
MANUFACTURER'S INSTALLATION INSTRUCTIONS AVAILABLE	1705.2.2	SDI QA/QC TABLE1.6		X	
PROPER TOOLS AVAILABLE FOR FOR FASTENER INSTALLATION					
PROPER STORAGE FOR MECHANICAL FASTENERS					
INSPECTION DURING MECHANICAL FASTENING					
FASTENERS ARE POSITIONED AS REQUIRED	1705.2.2	SDI QA/QC TABLE1.7		X	
FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS					
INSPECTION AFTER MECHANICAL FASTENING					
CHECK SPACING, TYPE AND INSTALLATION OF SUPPORT FASTENERS	1705.2.2	SDI QA/QC TABLE1.8	X		
CHECK SPACING, TYPE AND INSTALLATION OF SIDELAP FASTENERS					
CHECK SPACING, TYPE AND INSTALLATION OF PERIMETER FASTENERS					
VERIFY REPAIR ACTIVITIES					
DOCUMENT ACCEPTANCE OR REJECTION OF MECHANICAL FASTENERS					
IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	1705.2.2 1705.2.3 1705.2.4 TABLE 1705.2.3	APPLICABLE ASTM STANDARDS		X	MANUFACTURER'S CERTIFIED TEST REPORTS

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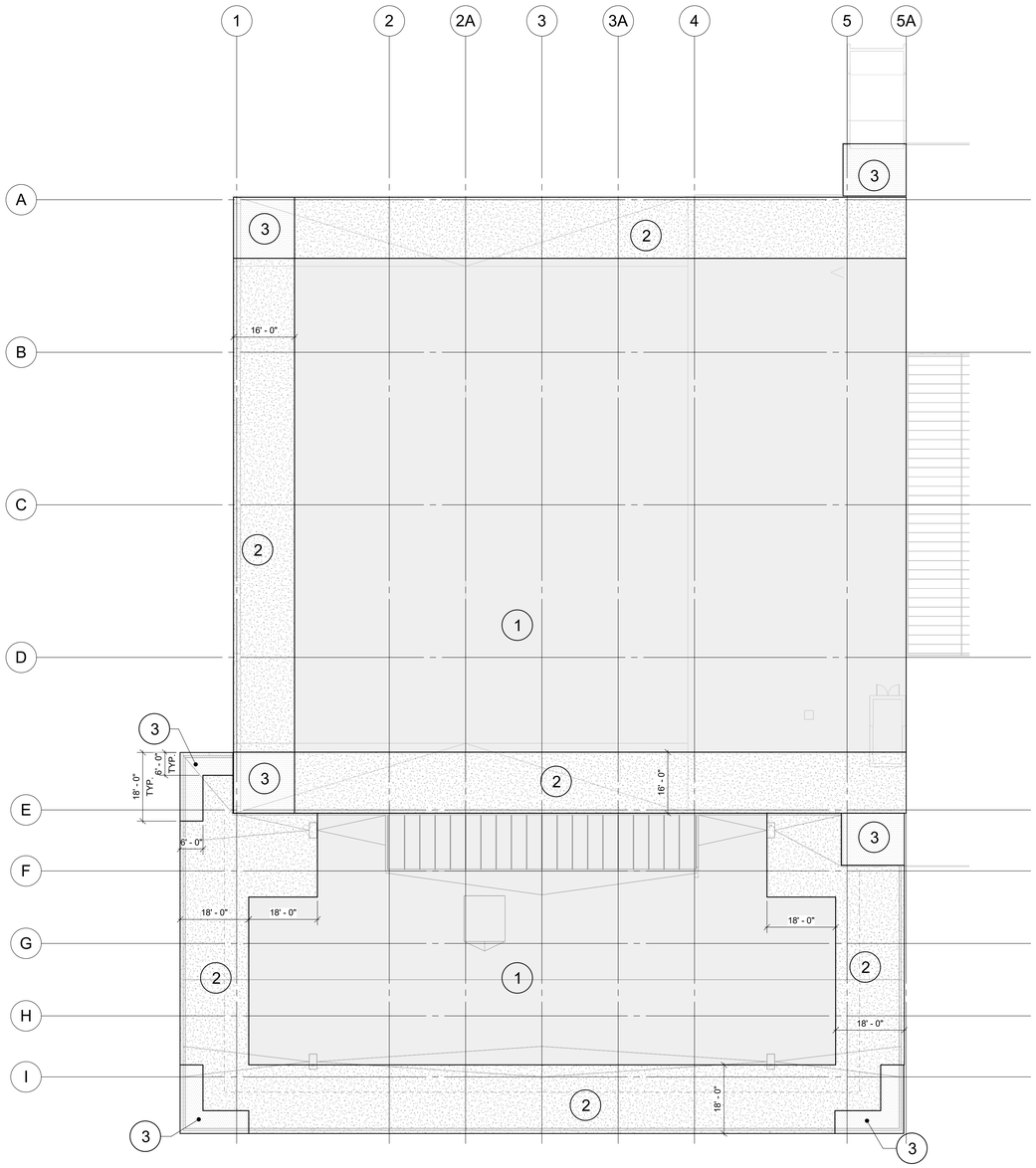
Revisions

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SPECIAL INSPECTIONS AND TESTING CONT.

S0.07

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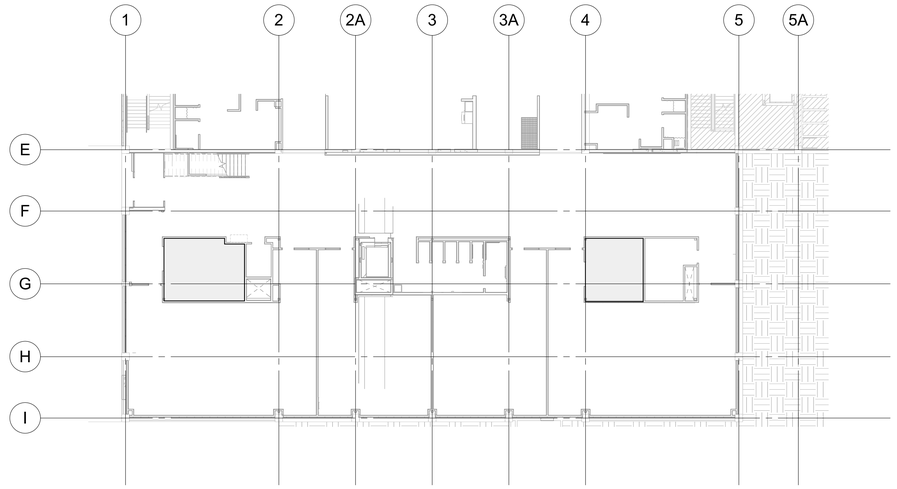


3 WIND LOADING PLAN
1/16" = 1'-0"

ROOF COMPONENTS AND CLADDING - DESIGN WIND PRESSURES (psf)												
EFFECTIVE AREA:	10 sf				20 sf				50 sf			
ZONE:	ALL	1	2	3	ALL	1	2	3	ALL	1	2	3
DIRECTION:	+		-		+		-		+		-	
PRESSURE:	16	-27	-37	-53	16	-24	-35	-48	16	-21	-30	-40

WALL COMPONENTS AND CLADDING - DESIGN WIND PRESSURES (psf)												
EFFECTIVE AREA:	10 sf			20 sf			50 sf			100 sf		
ZONE:	ALL	4	5	ALL	4	5	ALL	4	5	ALL	4	5
DIRECTION:	+	-	-	+	-	-	+	-	-	+	-	-
PRESSURE:	21	-22	-28	20	-22	-26	19	-20	-23	18	-19	-22

WIND LOADING PLAN NOTES:
1. DESIGN WIND PRESSURES INDICATED ARE AT ULTIMATE LEVEL. MULTIPLY BY 0.6 FOR ASD WIND PRESSURES.
2. NEGATIVE WIND PRESSURES ACT UPWARD/OUTWARD, POSITIVE WIND PRESSURES ACT DOWNWARD/INWARD.
3. WALL ZONE 5 OCCURS WITHIN 16 FEET OF BUILDING CORNERS. ALL OTHER WALL AREAS ARE ZONE 4.

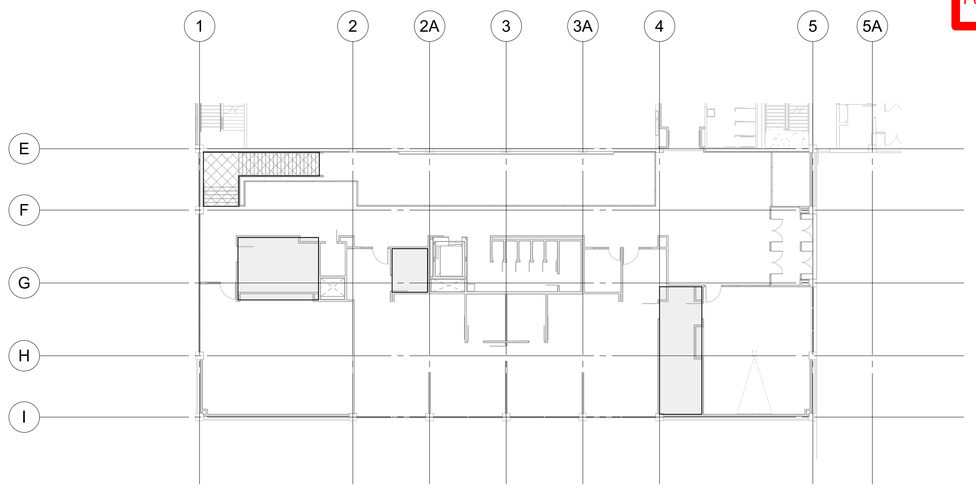


INDICATES 100 PSF LIVE LOAD, REDUCIBLE

INDICATES 100 PSF LIVE LOAD, NON-REDUCIBLE

INDICATES 125 PSF STORAGE LIVE LOAD, NON-REDUCIBLE.

1 LEVEL 1 LIVE LOADING PLAN
1/16" = 1'-0"



INDICATES 100 PSF LIVE LOAD, REDUCIBLE

INDICATES 100 PSF LIVE LOAD, NON-REDUCIBLE

INDICATES 125 PSF STORAGE LIVE LOAD, NON-REDUCIBLE.

2 LEVEL 2 LIVE LOADING PLAN
1/16" = 1'-0"

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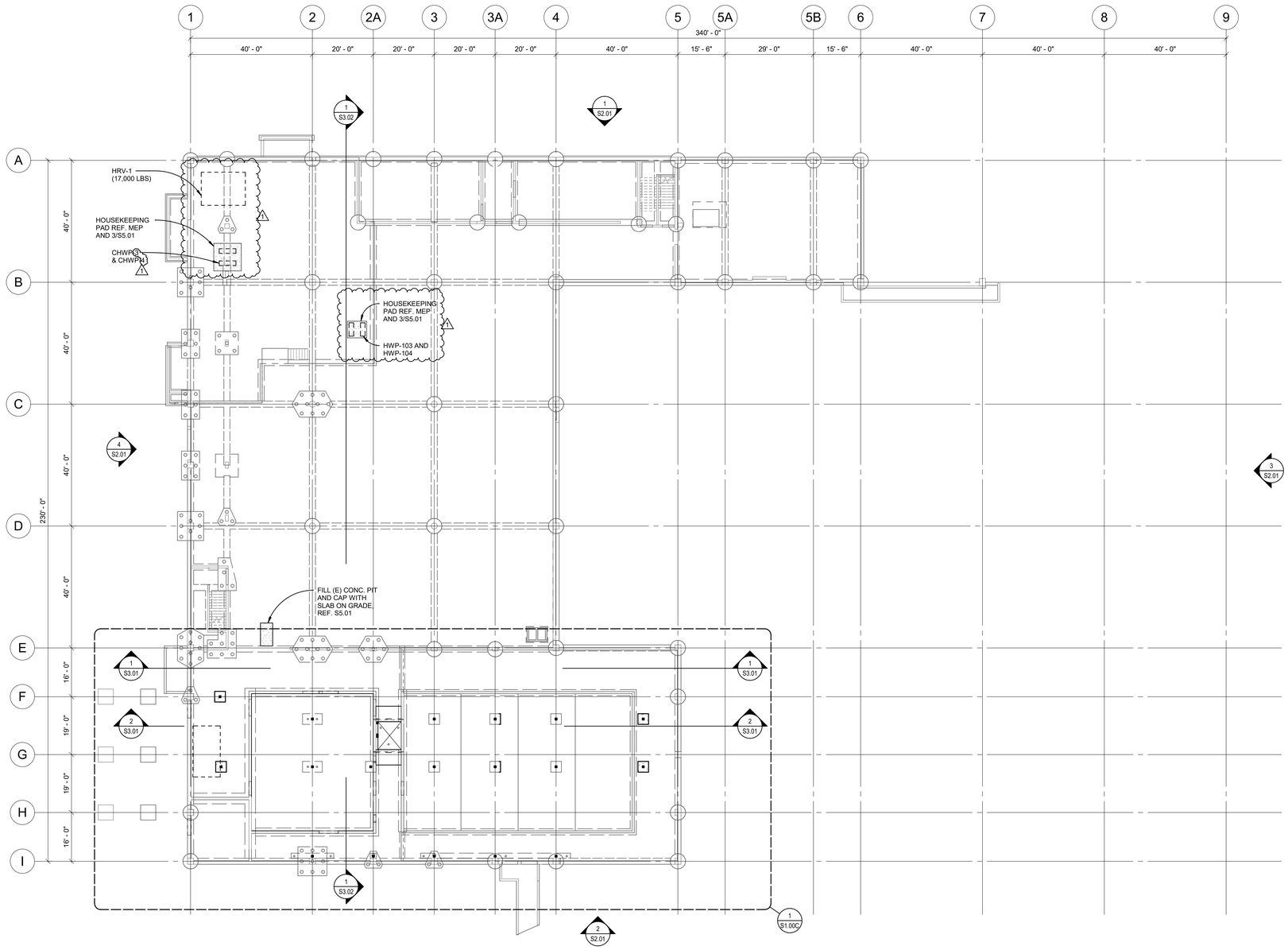
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LIVE LOADING AND WIND LOADING PLANS

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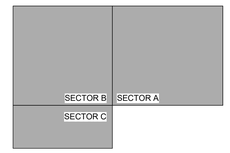


1 BASEMENT FOUNDATION PLAN - OVERALL
1/16" = 1'-0"

NOTES:

1. (E) INDICATES EXISTING.
2. ——— INDICATES EXISTING STRUCTURE.
3. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS. DIMENSIONS AND ELEVATIONS PRIOR TO FABRICATION AND ERECTION. NOTIFY ARCHITECT OF ANY SIGNIFICANT DISCREPANCIES FROM THAT SHOWN ON THE DRAWINGS.
4. CONTRACTOR TO SHORE ALL EXISTING FRAMING AS REQUIRED FOR DEMOLITION AND RE-FRAMING WORK. STRUCTURAL DEMOLITION SHALL BE SEQUENCED AS NOTED IN THE GENERAL STRUCTURAL NOTES.
5. ALL EXPOSED STRUCTURE SHALL BE VISUALLY INSPECTED FOR CRACKS AN DAMAGE BY THE CONTRACTOR AND FINDINGS REPORTED TO THE ARCHITECT.
6. REFER TO ARCHITECTURAL DRAWINGS FOR SLAB EDGE AND OPENING DIMENSIONS.

KEY PLAN



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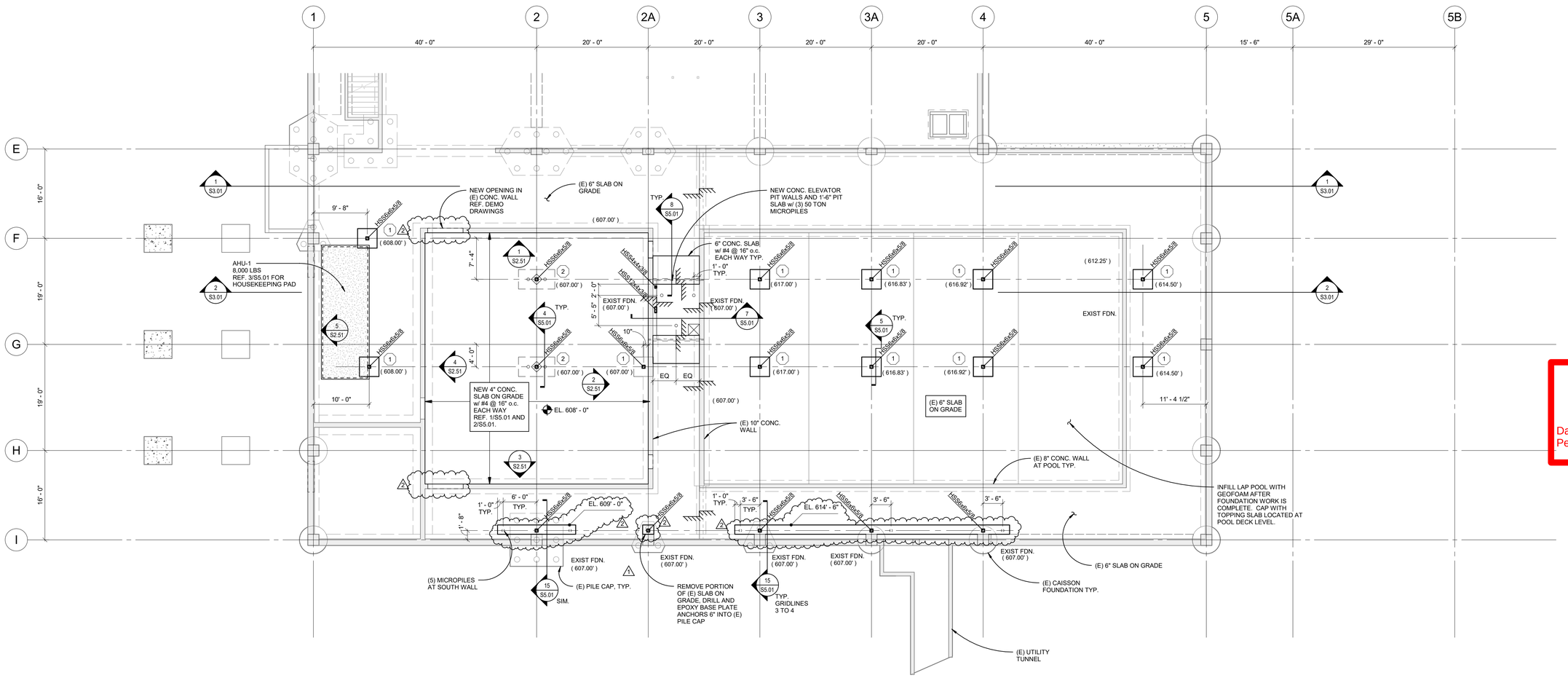
Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24

BASEMENT FOUNDATION PLAN - OVERALL

S1.00

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1 BASEMENT FOUNDATION PLAN - SECTOR C

1/8" = 1'-0"

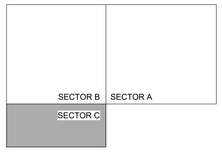
FOUNDATION PLAN NOTES:

1. (X) (XXX.XX') — INDICATES PILE CAP TYPE, REF. 6/S5.01; INDICATES TOP OF PILE CAP ELEVATION.
2. EXIST FDN. (XXX.XX') — INDICATES EXISTING FOUNDATION AND ASSUMED TOP OF FOUNDATION ELEVATION, FIELD VERIFY.
3. EL. XXX'-XX" — INDICATES TOP OF STRUCTURAL SLAB ELEVATION. REF. ARCHITECTURAL SLAB DIMENSION PLANS FOR TOP OF OVERFRAMING SLABS.
4. (E) — INDICATES EXISTING.
5. ——— — INDICATES EXISTING STRUCTURE.
6. FIELD VERIFY EXISTING DIMENSIONS AND ELEVATIONS.
7. REF. ARCH. AND MEP PLANS FOR HOUSEKEEPING PAD LAYOUTS. REF. 3/S5.01 FOR DETAILS.
8. REF. ARCHITECTURAL SLAB DIMENSION PLANS FOR DIMENSIONS NOT SHOW.

NOTES:

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2. ——— — INDICATES EXISTING STRUCTURE.
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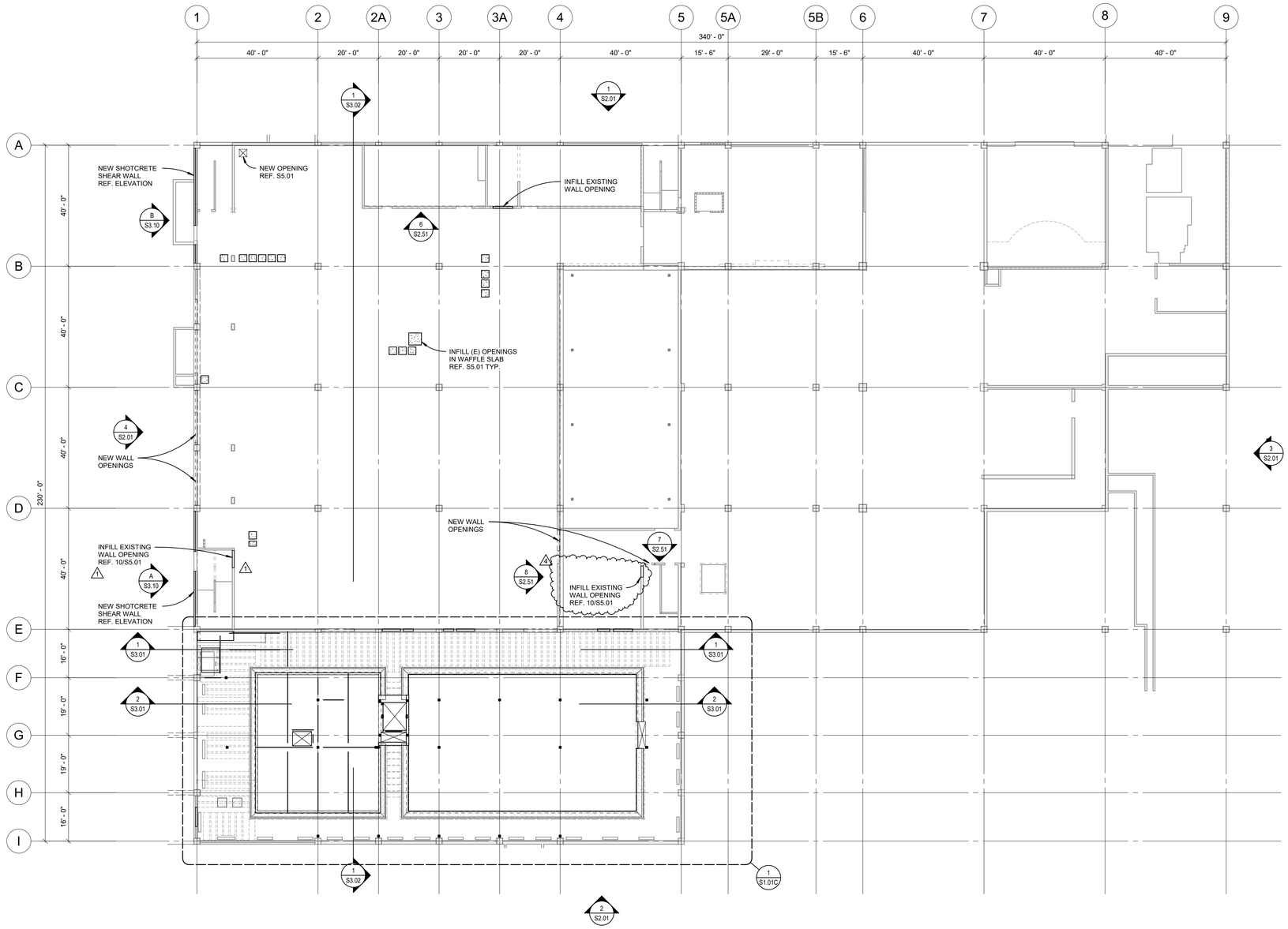
Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24
2	Revision 2	07-10-24

BASEMENT FOUNDATION PLAN - SECTOR C

S1.00C

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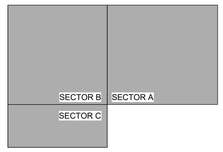
1 LEVEL 1 FRAMING PLAN - OVERALL

1/16" = 1'-0"

NOTES:

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2. ——— INDICATES EXISTING STRUCTURE.
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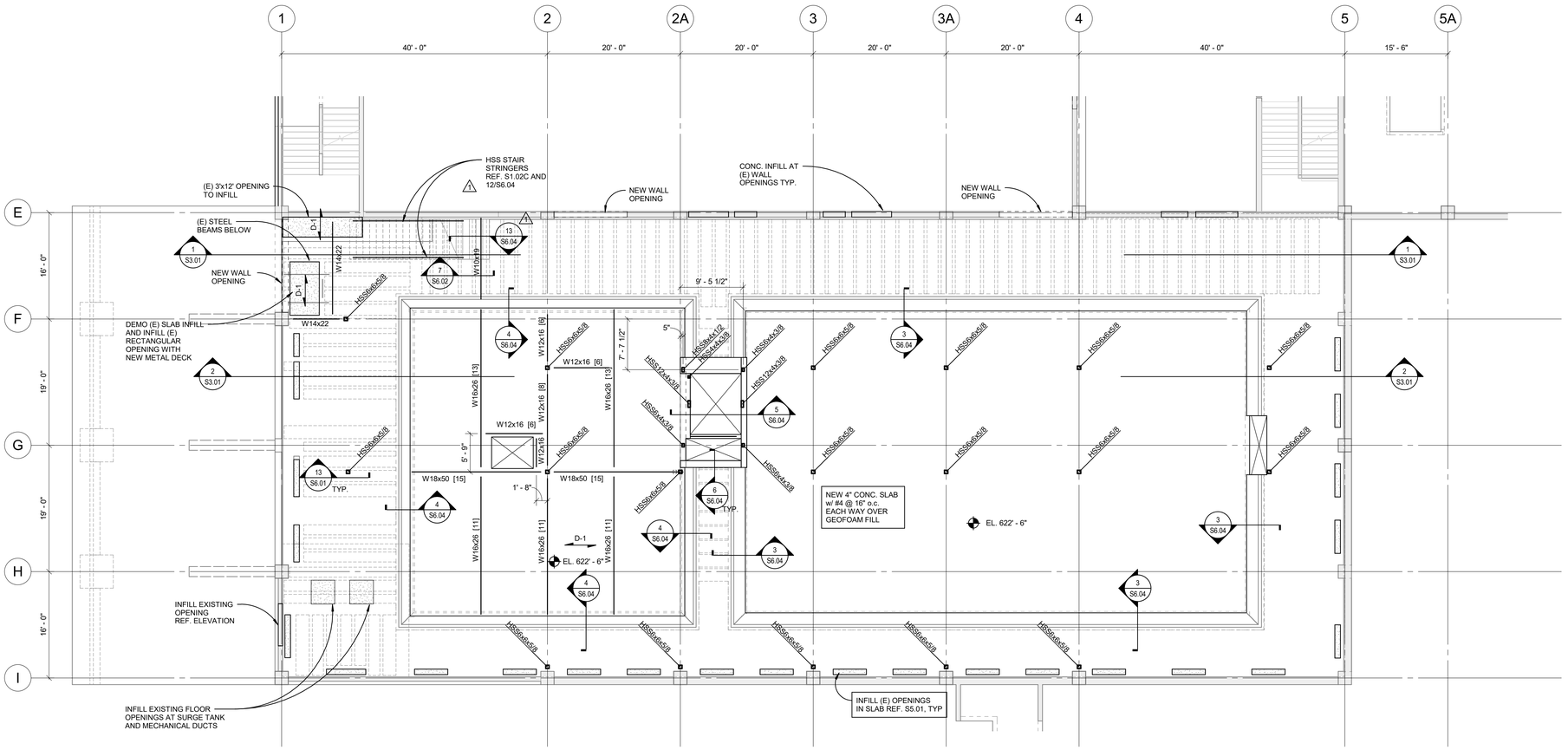
Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24
4	Revision 4	08-13-24

LEVEL 1 FRAMING PLAN - OVERALL

S1.01

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1 LEVEL 1 FRAMING PLAN - SECTOR C
1/8" = 1'-0"

STEEL FRAMING NOTES:

1. REF. S6.01 THRU S6.03 FOR TYPICAL STEEL DETAILS.
2. BEAMS ARE EQUALLY SPACED IN BAYS U.N.O.
3. BEAMS ARE CENTERED ON COLUMNS, WALLS AND/OR GRID LINES, U.N.O.
4. LOCATE BEAM CENTERLINE 6" FROM EDGE OF OPENING OR SLAB/DECK EDGE U.N.O.
5. [X] INDICATES CONNECTION TYPE. REF. 2 AND 3/S6.01 FOR SCHEDULES AND CONNECTION DETAILS. REF. NOTE 7 WHERE CONNECTION TYPES ARE NOT SHOWN.
6. [XC] INDICATES CONNECTION TYPE TO CONCRETE REF. 13/S6.02 FOR DETAIL
7. PROVIDE THE FOLLOWING CONNECTION TYPES UNLESS NOTED OTHERWISE ON THE PLANS:

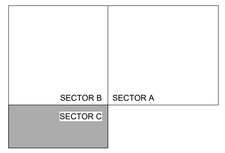
BEAM DESIGNATION	CONNECTION TYPE
W8	2D
W10	2
W12, W14	3
W16, W18	4
W21, W24	5
W27, W30	6
W33, W36	7

8. [XX] INDICATES NUMBER OF 3/4"Ø x5" LONG HEADED STUDS EVENLY DISTRIBUTED ALONG BEAM LENGTH. REF. 5/S6.02 FOR TYPICAL COMPOSITE BEAM STUD SPACING DETAIL. PROVIDE STUDS @ 12" o.c. (MAX.) U.N.O.
9. [X-X-X] INDICATES NUMBER OF 3/4"Ø x5" LONG HEADED STUDS EVENLY DISTRIBUTED BETWEEN WF BEAMS ON WF GIRDERS. REF. 5/S6.02 FOR TYPICAL COMPOSITE BEAM STUD SPACING DETAIL.
10. <X"> INDICATES UPWARD CAMBER AT MID SPAN.
11. D - X INDICATES SPAN DIRECTION OF DECK. REF. SCHEDULE 1/S6.02 FOR DECK INFORMATION.
12. EL. XXX'-XX" INDICATES TOP OF SLAB ELEVATION.
13. EL. XXX'-XX" INDICATES BOTTOM OF DECK ELEVATION.
14. INDICATES MOMENT CONNECTION. REF. 9/S6.03 FOR DETAILS.
15. INDICATES FULL-HEIGHT STIFFENER. REF. 3/S6.01 FOR DETAIL.
16. X INDICATES BEAM PENETRATION. REF. SCHEDULE 3/S6.03. PROVIDE ADDITIONAL STUDS AS IDENTIFIED
17. REF. S6.03 FOR TYPICAL DECK REINFORCING AT OPENINGS.
18. (A) INDICATES ABOVE.
19. (B) INDICATES BELOW
20. INDICATES COLUMN BELOW.
21. INDICATES ROOF TIE OFF. REF. S601 FOR CONNECTION DETAILS.
22. INDICATES ADDITIONAL LOAD DUE TO SNOW DRIFT.

NOTES:

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2. INDICATES EXISTING STRUCTURE.
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5. ALL EXPOSED STRUCTURE SHALL BE VISUALLY INSPECTED FOR CRACKS AN DAMAGE BY THE CONTRACTOR AND FINDINGS REPORTED TO THE ARCHITECT.
6. REFER TO ARCHITECTURAL DRAWINGS FOR SLAB EDGE AND OPENING DIMENSIONS.

KEY PLAN



GRAPHIC UPDATES ONLY

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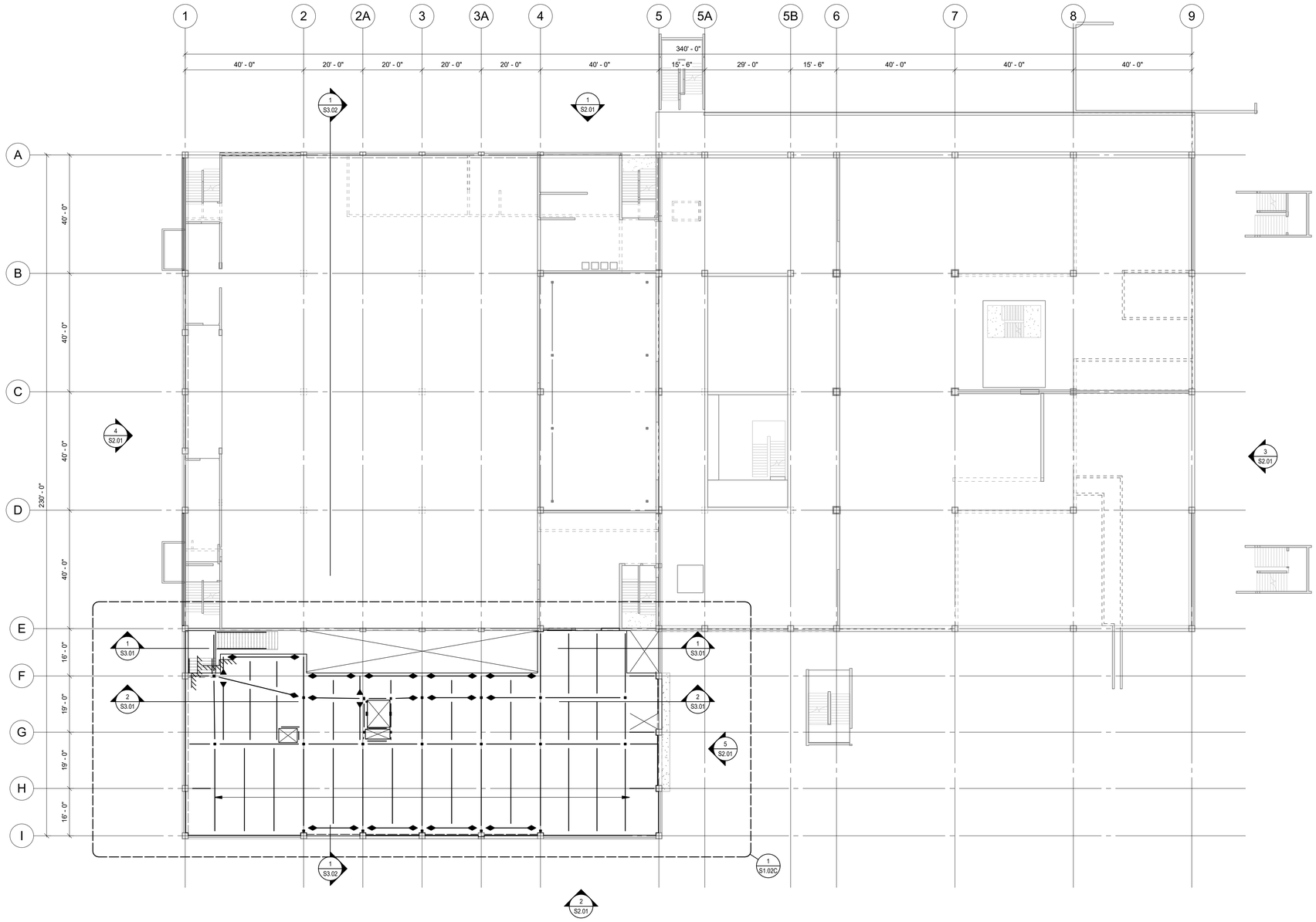
Revisions

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1	Revision 1	05-24-24
2	Revision 2	07-10-24

LEVEL 1 FRAMING PLAN - SECTOR C

S1.01C

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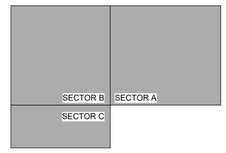


1 LEVEL 2 FRAMING PLAN - OVERALL
1/16" = 1'-0"

NOTES:

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10022200424 R-22 (ACC)

City of Portland
Reviewed for Code Compliance
Date: 8/21/2024
Permit #: 24-020319-STR-01-CO

Portland Community College
12000 SW 49th Ave,
Portland, Oregon
97219

PCC SY-HT Building West Side Renovation
12000 SW 49th Ave
Portland, Oregon 97219

Date 02/23/24

Project No. 221000

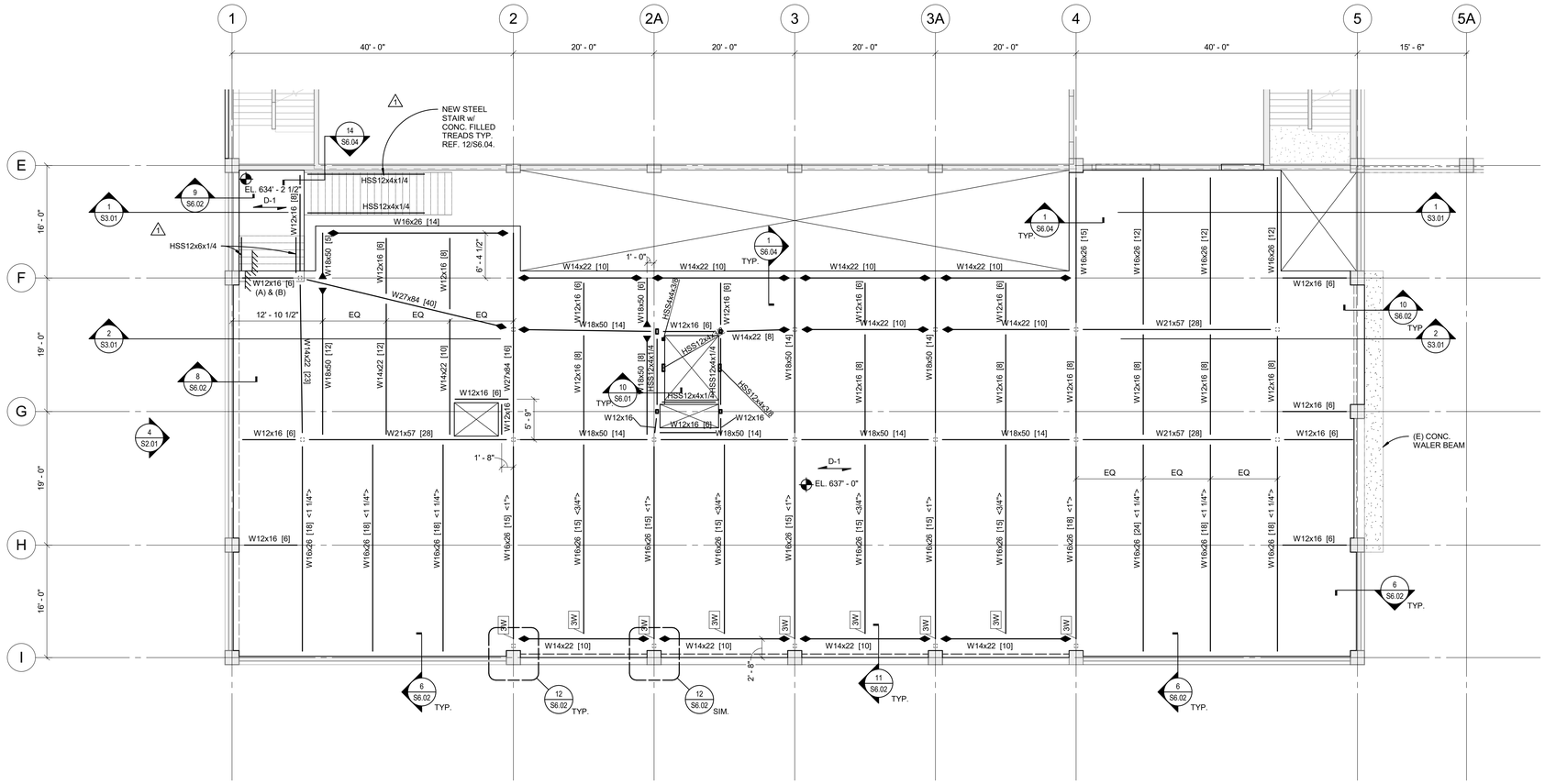
Revisions

NO.	DESCRIPTION	DATE
2	Revision 2	07-10-24

LEVEL 2 FRAMING PLAN - OVERALL

S1.02

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1 LEVEL 2 FRAMING PLAN - SECTOR C

1/8" = 1'-0"

STEEL FRAMING NOTES:

1. REF. S6.01 THRU S6.03 FOR TYPICAL STEEL DETAILS.
2. BEAMS ARE EQUALLY SPACED IN BAYS U.N.O.
3. BEAMS ARE CENTERED ON COLUMNS, WALLS AND/OR GRID LINES, U.N.O.
4. LOCATE BEAM CENTERLINE 6" FROM EDGE OF OPENING OR SLAB/DECK EDGE U.N.O.
5. [X] INDICATES CONNECTION TYPE. REF. 2 AND 3/S6.01 FOR SCHEDULES AND CONNECTION DETAILS. REF. NOTE 7 WHERE CONNECTION TYPES ARE NOT SHOWN.
6. [XC] INDICATES CONNECTION TYPE TO CONCRETE REF. 13/S6.02 FOR DETAIL
7. PROVIDE THE FOLLOWING CONNECTION TYPES UNLESS NOTED OTHERWISE ON THE PLANS:

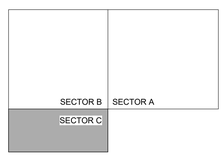
BEAM DESIGNATION	CONNECTION TYPE
W8	2D
W10	2
W12, W14	3
W16, W18	4
W21, W24	5
W27, W30	6
W33, W36	7

8. [XX] INDICATES NUMBER OF 3/4"Øx5" LONG HEADED STUDS EVENLY DISTRIBUTED ALONG BEAM LENGTH. REF. 5/S6.02 FOR TYPICAL COMPOSITE BEAM STUD SPACING DETAIL. PROVIDE STUDS @ 12" o.c. (MAX.) U.N.O.
9. [X-X-X] INDICATES NUMBER OF 3/4"Øx5" LONG HEADED STUDS EVENLY DISTRIBUTED BETWEEN WF BEAMS ON WF GIRDERS. REF. 5/S6.02 FOR TYPICAL COMPOSITE BEAM STUD SPACING DETAIL.
10. <X"> INDICATES UPWARD CAMBER AT MID SPAN.
11. D - X INDICATES SPAN DIRECTION OF DECK. REF. SCHEDULE 1/S6.02 FOR DECK INFORMATION.
12. EL. XXX'-XX" INDICATES TOP OF SLAB ELEVATION.
13. EL. XXX'-XX" INDICATES BOTTOM OF DECK ELEVATION.
14. INDICATES MOMENT CONNECTION. REF. 9/S6.03 FOR DETAILS.
15. INDICATES FULL-HEIGHT STIFFENER. REF. 3/S6.01 FOR DETAIL.
16. X INDICATES BEAM PENETRATION. REF. SCHEDULE 3/S6.03. PROVIDE ADDITIONAL STUDS AS IDENTIFIED
17. REF. S6.03 FOR TYPICAL DECK REINFORCING AT OPENINGS.
18. (A) INDICATES ABOVE.
19. (B) INDICATES BELOW
20. INDICATES COLUMN BELOW.
21. INDICATES ROOF TIE OFF. REF. S601 FOR CONNECTION DETAILS.
22. INDICATES ADDITIONAL LOAD DUE TO SNOW DRIFT.

NOTES:

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2. INDICATES EXISTING STRUCTURE.
3. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS. DIMENSIONS AND ELEVATIONS PRIOR TO FABRICATION AND ERECTION. NOTIFY ARCHITECT OF ANY SIGNIFICANT DISCREPANCIES FROM THAT SHOWN ON THE DRAWINGS.
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6. REFER TO ARCHITECTURAL DRAWINGS FOR SLAB EDGE AND OPENING DIMENSIONS.

KEY PLAN



2 GRAPHIC UPDATES ONLY

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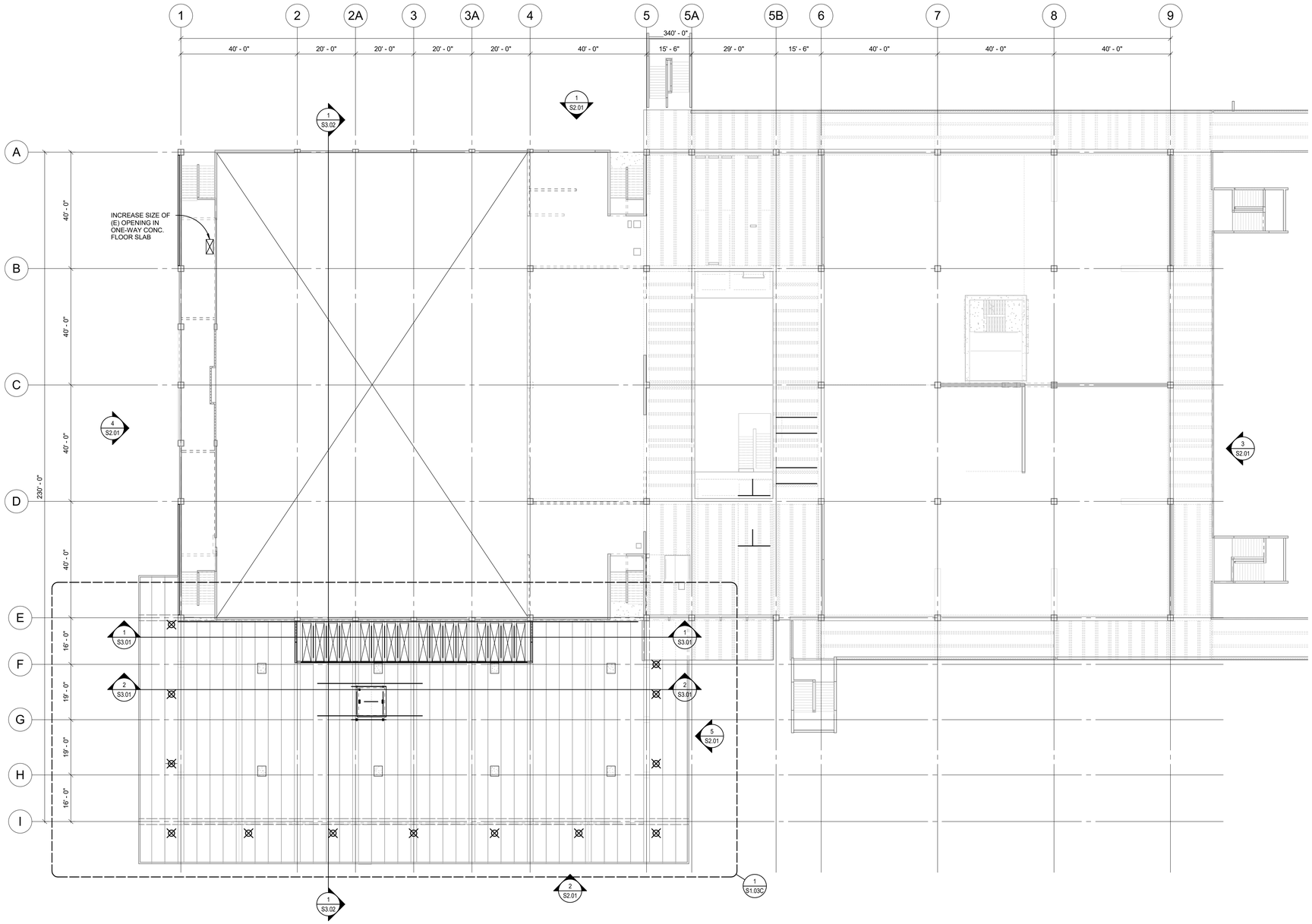
Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24
2	Revision 2	07-10-24

LEVEL 2 FRAMING PLAN - SECTOR C

S1.02C

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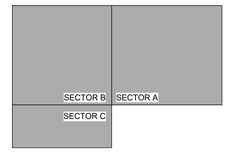


1 LEVEL 3 FRAMING PLAN - OVERALL
1/16" = 1'-0"

NOTES:

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KEY PLAN



GRAPHIC UPDATES ONLY 2

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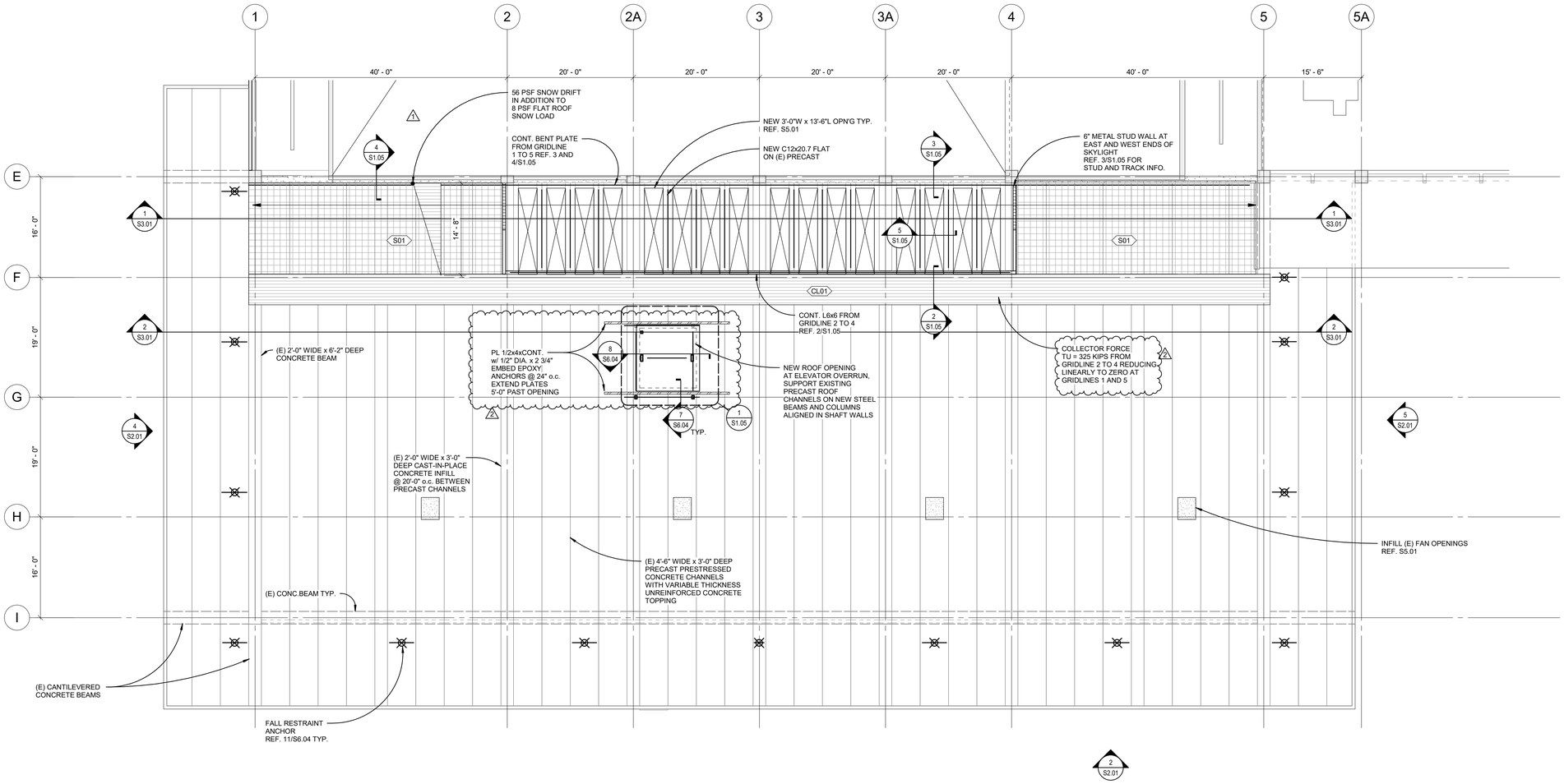
Revisions

NO.	DESCRIPTION	DATE
2	Revision 2	07-10-24

LEVEL 3 FRAMING PLAN - OVERALL

S1.03

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1 LEVEL 3/ROOF FRAMING PLAN - SECTOR C

1/8" = 1'-0"

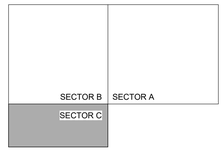
SECTOR C ROOF NOTES:

1. XXX — INDICATES FRP REINFORCING MARK, REF. 6/S1.05 AND DETAILS FOR ADDITIONAL INFO.
2. INDICATES FRP FIBER ORIENTATION DIRECTION(S). OR

NOTES:

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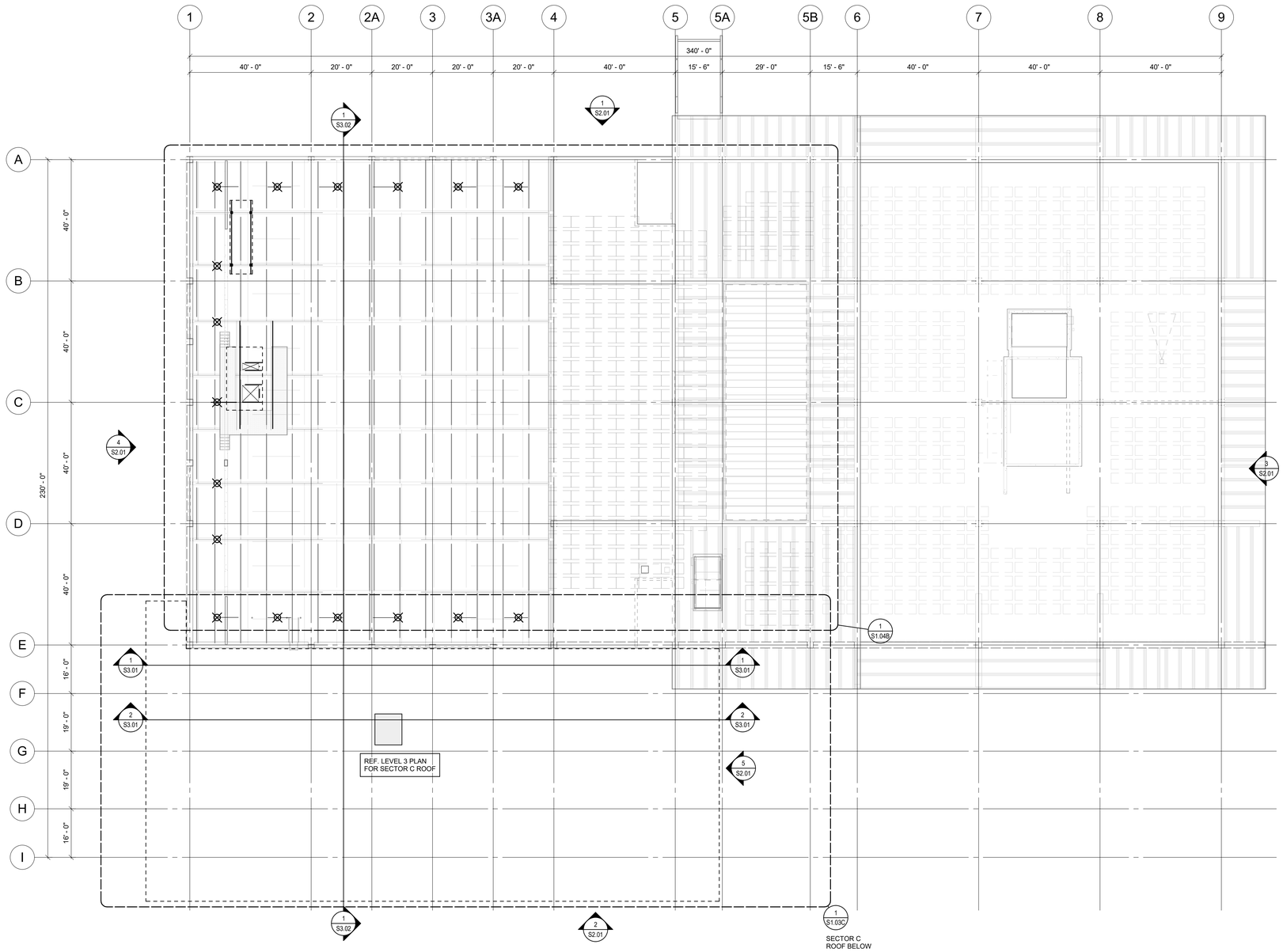
Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24
2	Revision 2	07-10-24

LEVEL 3/ROOF FRAMING PLAN - SECTOR C

S1.03C

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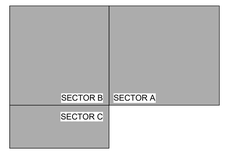


1 ROOF FRAMING PLAN - OVERALL
1/16" = 1'-0"

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KEY PLAN



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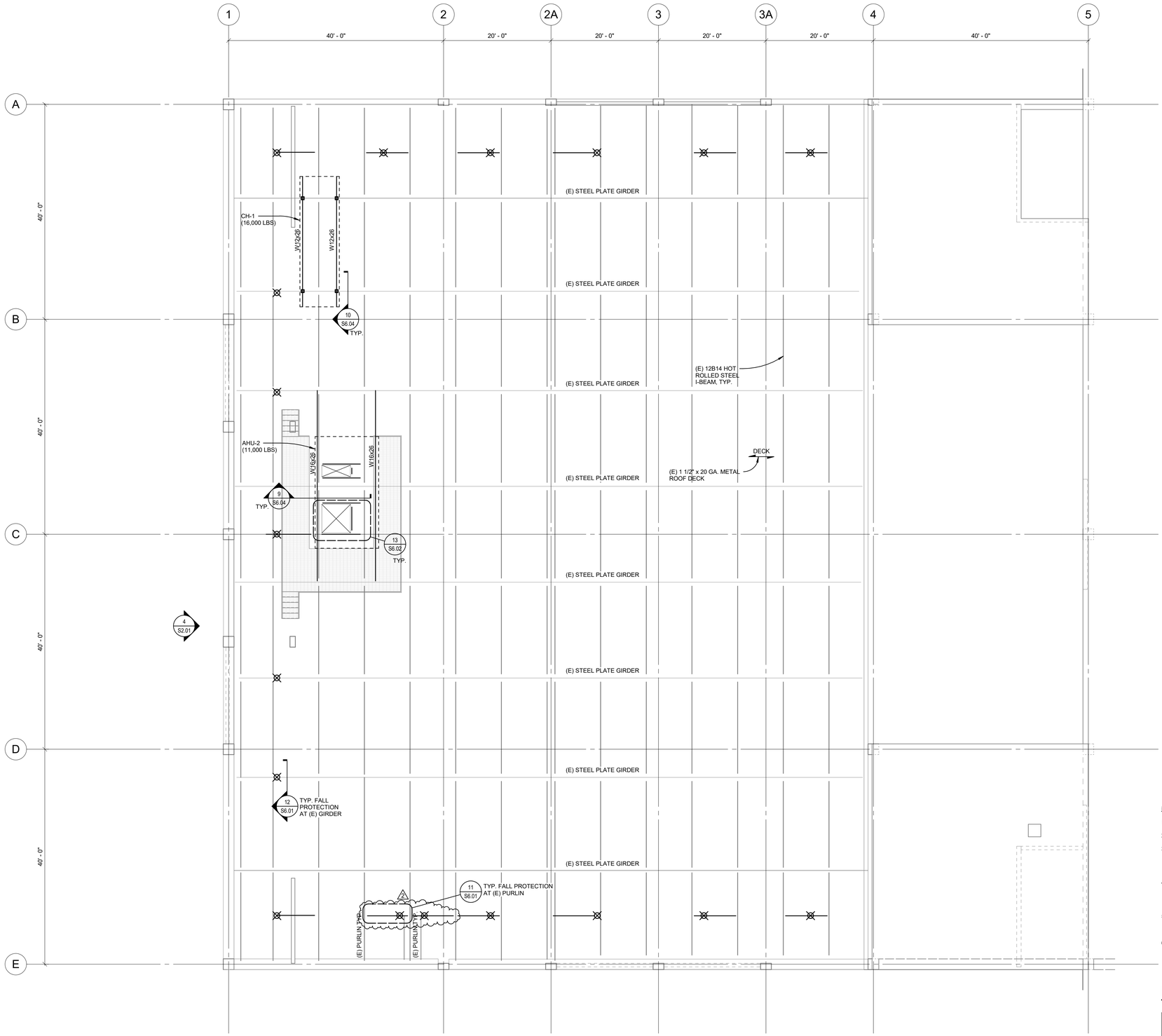
Revisions

NO.	DESCRIPTION	DATE
2	Revision 2	07-10-24

ROOF FRAMING PLAN - OVERALL

S1.04

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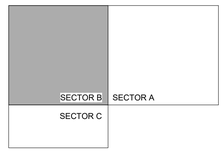


1 ROOF FRAMING PLAN - SECTOR B
1/8" = 1'-0"

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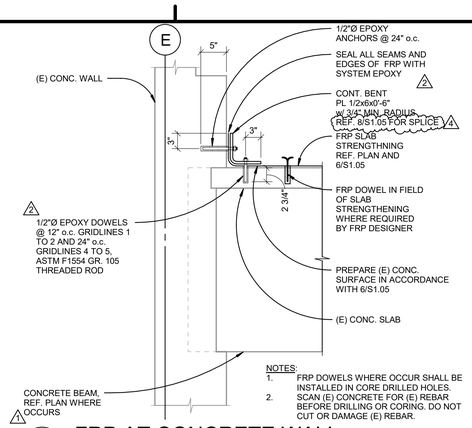
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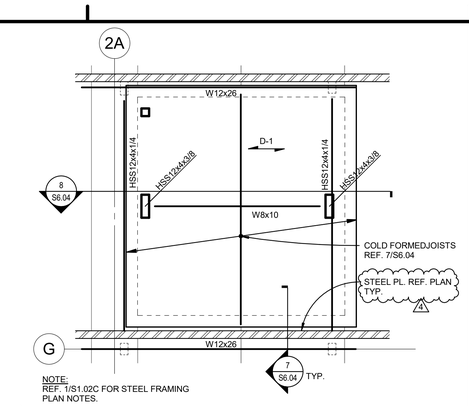
ROOF FRAMING PLAN - SECTOR B

S1.04B

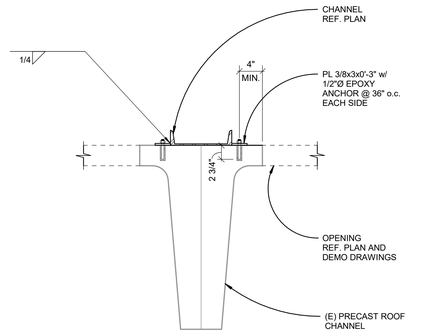
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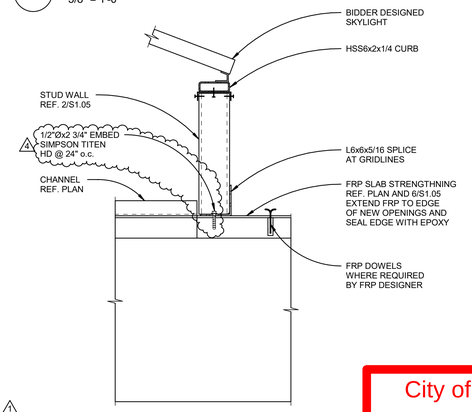
4 FRP AT CONCRETE WALL
1" = 1'-0"



1 PARTIAL PLAN AT ELEVATOR ROOF
3/8" = 1'-0"



5 CHANNEL AT SKYLIGHT
1" = 1'-0"



2 SECTION AT SKYLIGHT
1" = 1'-0"

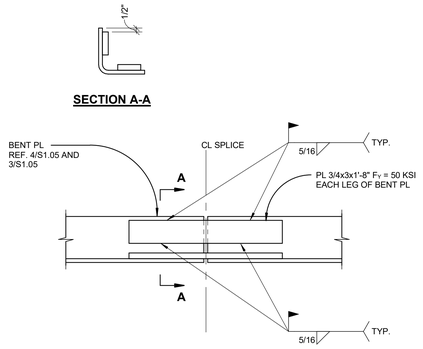
ID	(E) SIZE	(E) MATERIAL	FRP DEMAND	SURFACE PREPARATION AND TESTING	DETAIL(S)	NOTES
S01	5"	(E) CONC. ROOF	Vu = 12 k/ft	BOND CRITICAL	REF. PLAN	
CL01	-	(E) CONC. ROOF	Tu = REF. PLAN S1.03C	BOND CRITICAL	REF. PLAN	

2

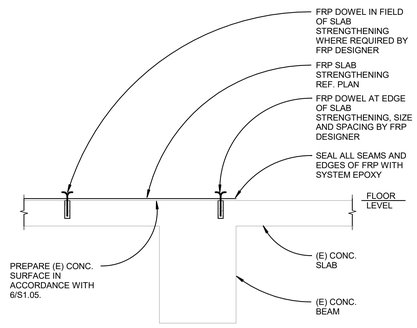
NOTES:

1. STRENGTH REDUCTION FACTOR, Ø, MAY BE TAKEN AS 1.0.
2. LOWER BOUND MATERIAL PROPERTIES PER ASCE 41 SHALL BE USED. REF. GENERAL STRUCTURAL NOTES FOR (E) MATERIAL PROPERTIES.
3. FOR SURFACE PREPARATION AND TESTING REQUIREMENTS REF. SPECIFICATION.
4. REF. PLAN FOR FIBER ORIENTATION.

6 FRP STRENGTHENING DESIGN REQUIREMENTS
NTS



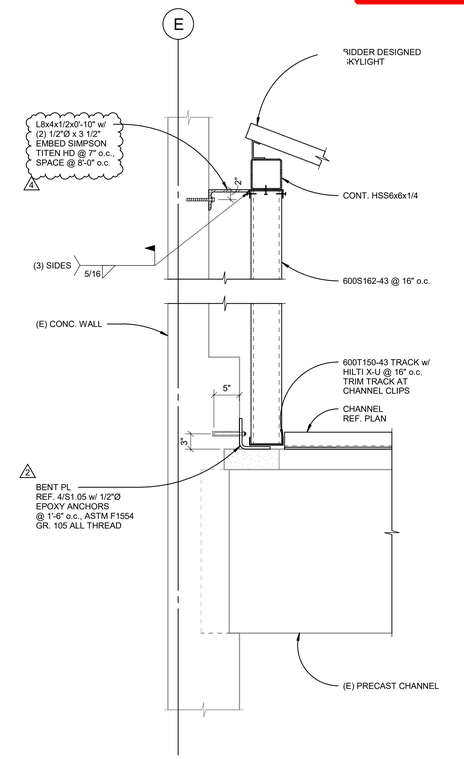
8 BENT PL SPLICE AT GRIDLINE E
1 1/2" = 1'-0"



NOTES:

1. FRP DOWELS WHERE OCCUR SHALL BE INSTALLED IN CORE DRILLED HOLES.
2. SCAN (E) CONCRETE FOR (E) REBAR BEFORE DRILLING OR CORING. DO NOT CUT OR DAMAGE (E) REBAR.

7 TYPICAL FRP SLAB STRENGTHENING
1" = 1'-0"



3 SECTION AT SKYLIGHT
1" = 1'-0"

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4	Revision 4	08-13-24

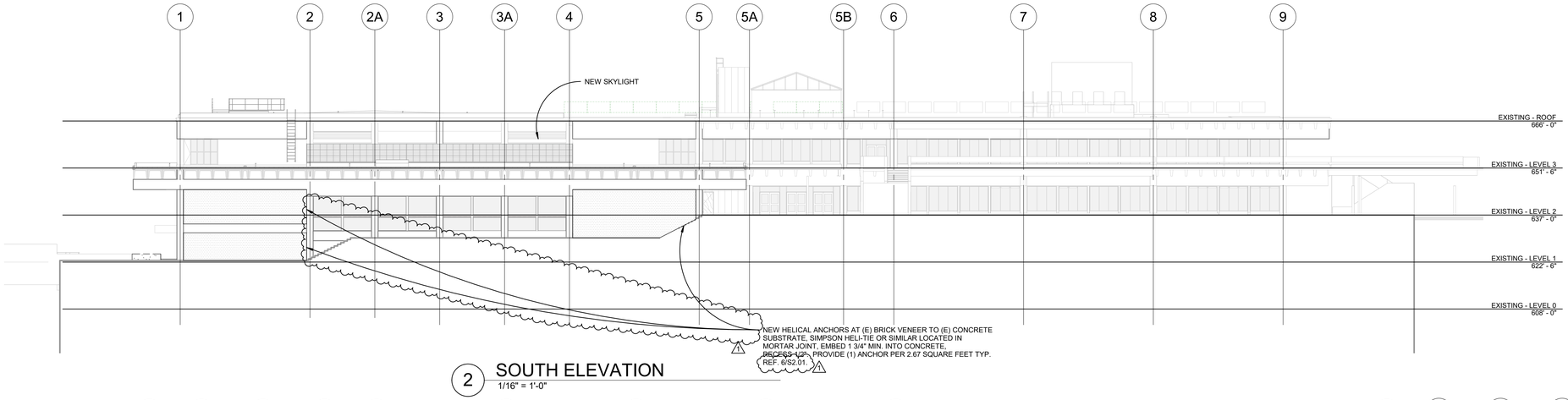
PARTIAL PLAN LEVEL 3/ROOF FRAMING PLAN - SECTOR C

S1.05

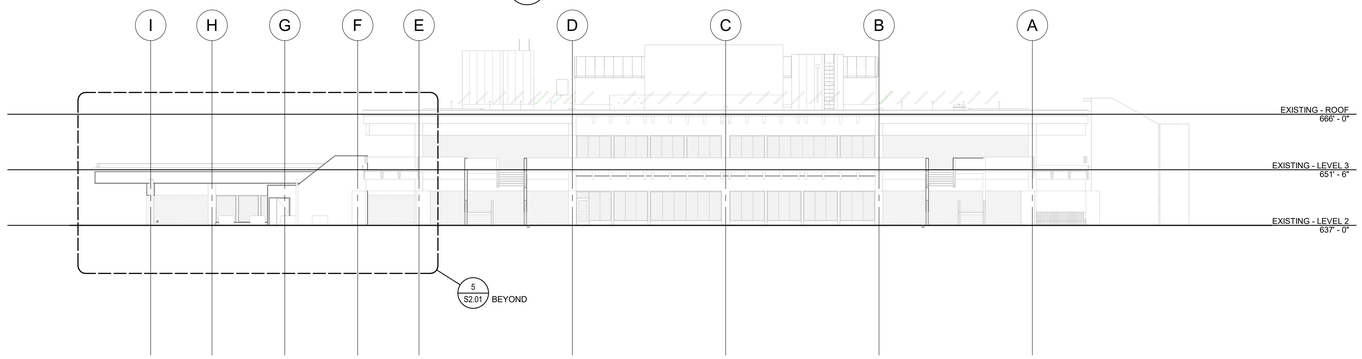
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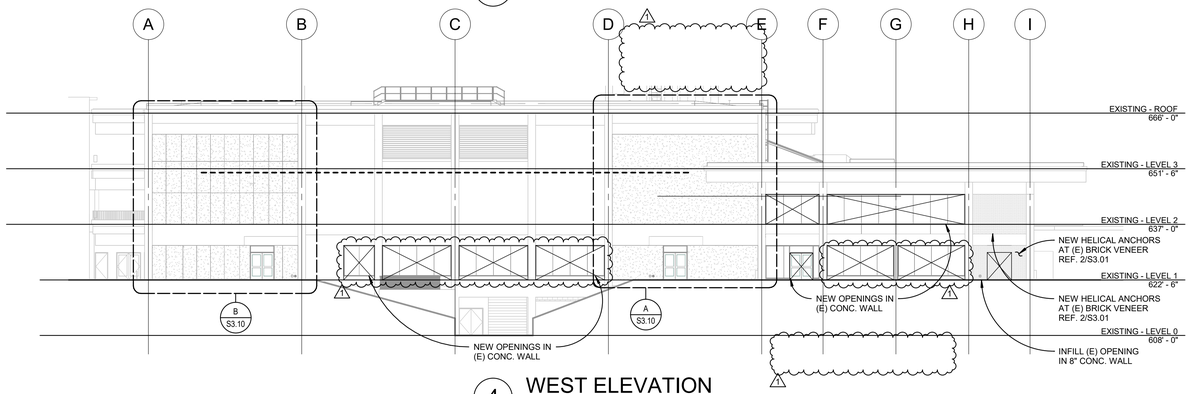
1 NORTH ELEVATION
1/16" = 1'-0"



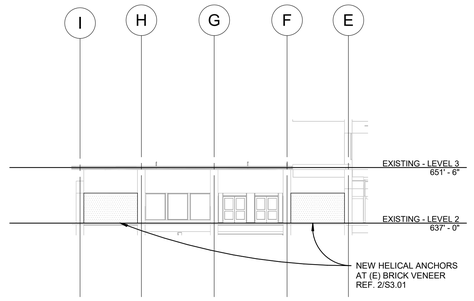
2 SOUTH ELEVATION
1/16" = 1'-0"



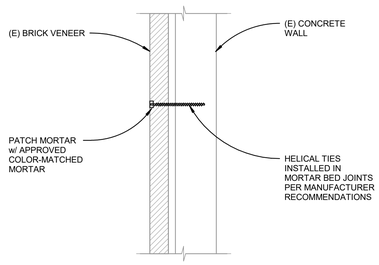
3 EAST ELEVATION
1/16" = 1'-0"



4 WEST ELEVATION
1/16" = 1'-0"



5 EAST ELEVATION GRID I-E
1/16" = 1'-0"



6 TYP. HELICAL ANCHOR DETAIL
1" = 1'-0"

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6. REFER TO ARCHITECTURAL DRAWINGS FOR SLAB EDGE AND OPENING DIMENSIONS.

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Permit #: 24-020319-STR-01-CO

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Date 02/23/24
Project No. 221000

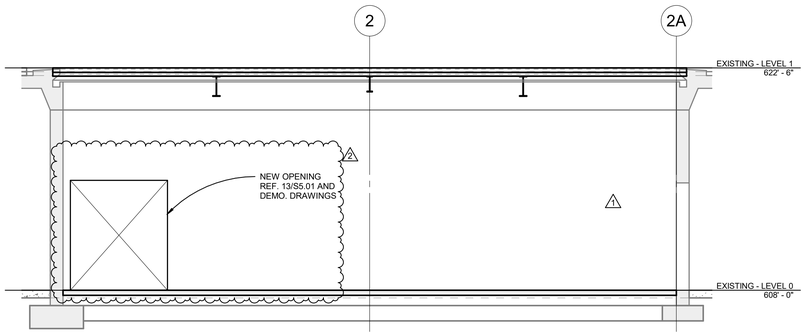
Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24

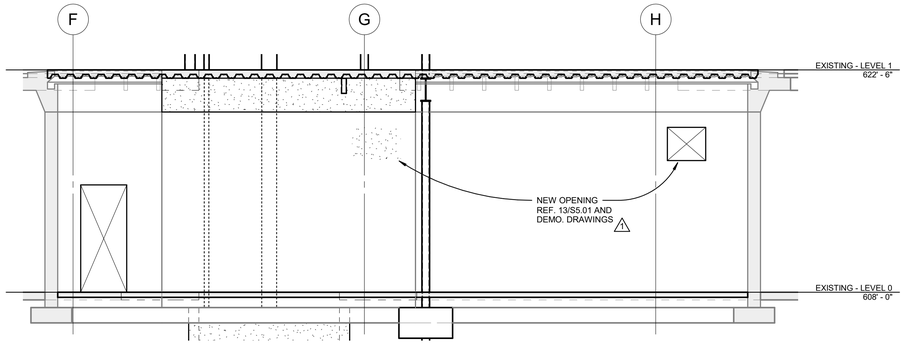
EXTERIOR ELEVATIONS

S2.01

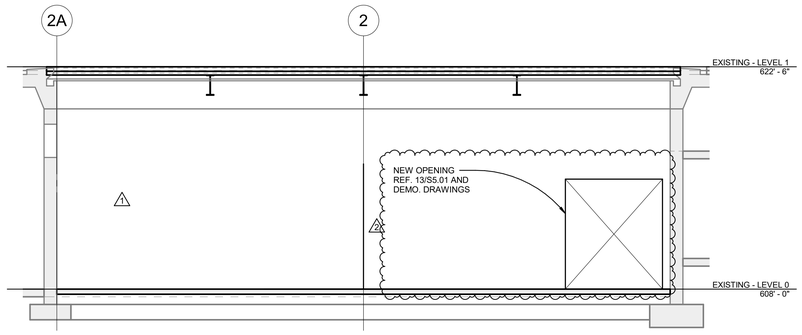
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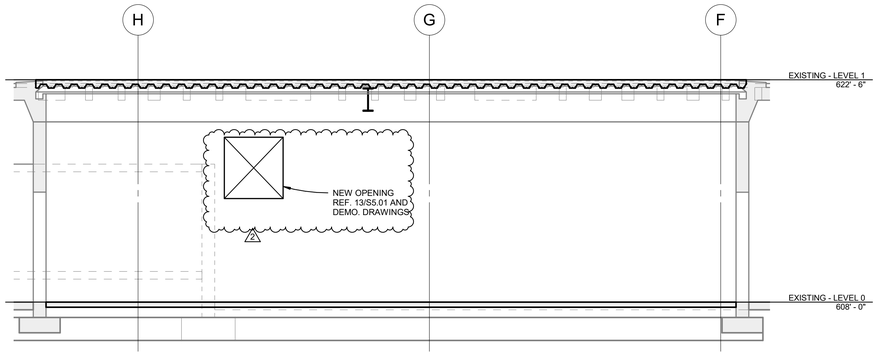
1 ELEVATION - DIVE WELL - NORTH
1/4" = 1'-0"



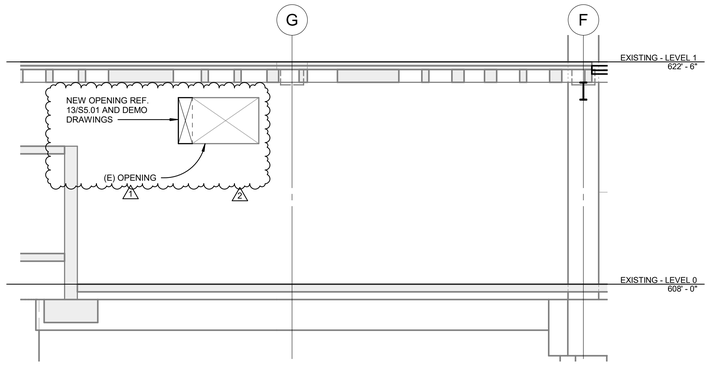
2 ELEVATION - DIVE WELL - EAST
1/4" = 1'-0"



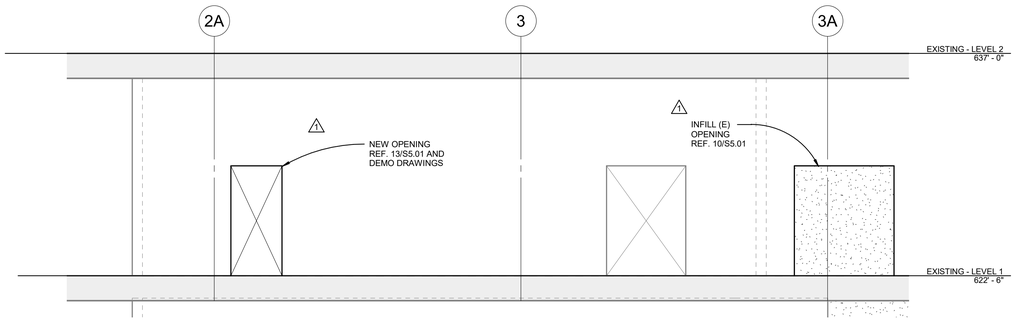
3 ELEVATION - DIVE WELL - SOUTH
1/4" = 1'-0"



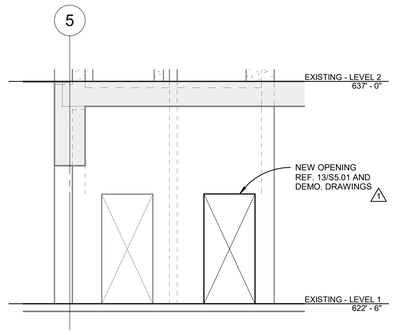
4 ELEVATION - DIVE WELL - WEST
1/4" = 1'-0"



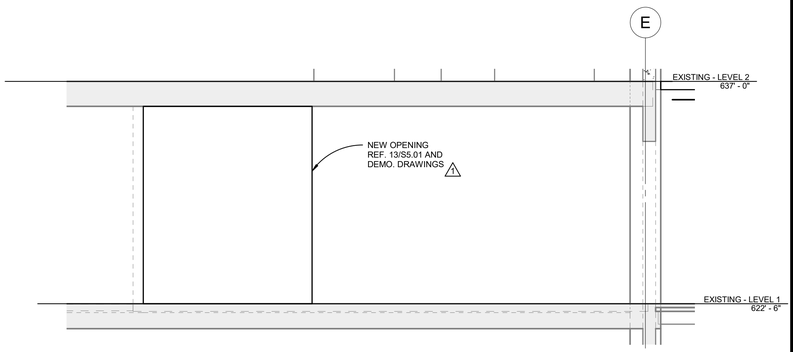
5 ELEVATION - BASEMENT EQUIPMENT M0-6 - WEST
1/4" = 1'-0"



6 ELEVATION - LEVEL 1 NORTH HALLWAY - NORTH
1/4" = 1'-0"



7 ELEVATION - LEVEL 1 SE HALLWAY - SOUTH
1/4" = 1'-0"



8 ELEVATION - WOMEN'S LOCKER ROOM - EAST
1/4" = 1'-0"

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Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24
2	Revision 2	07-10-24

INTERIOR ELEVATIONS

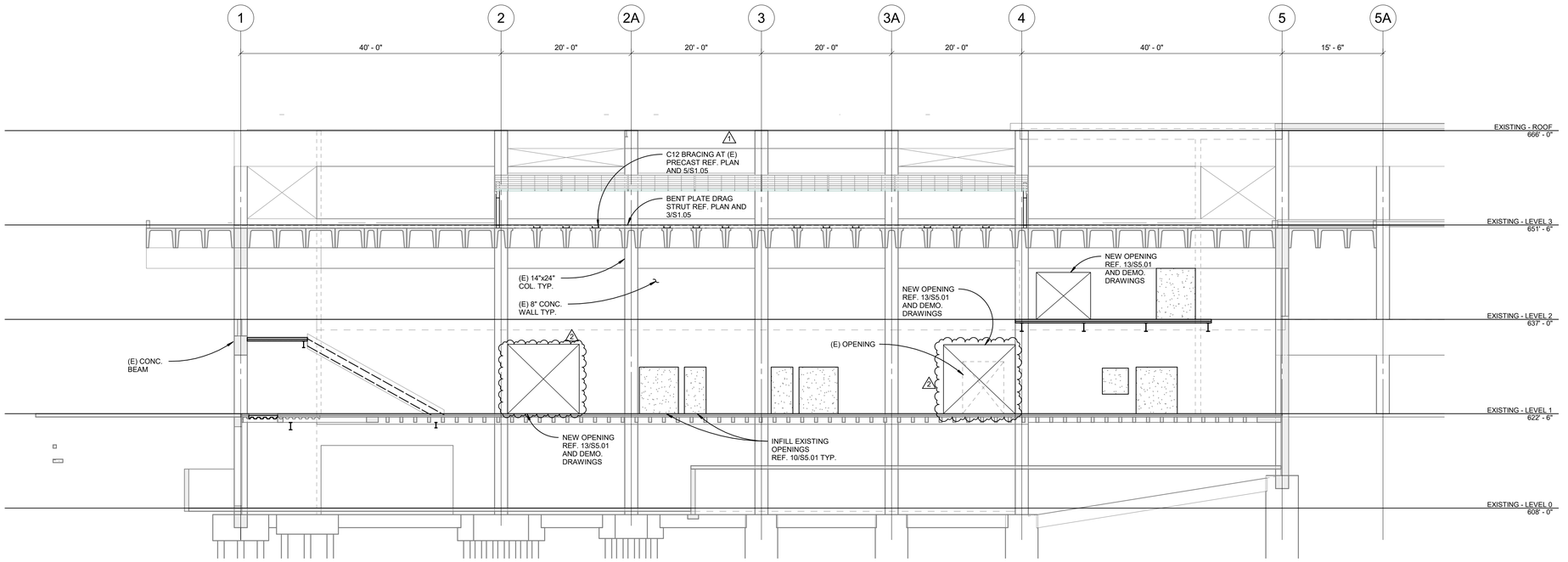
S2.51

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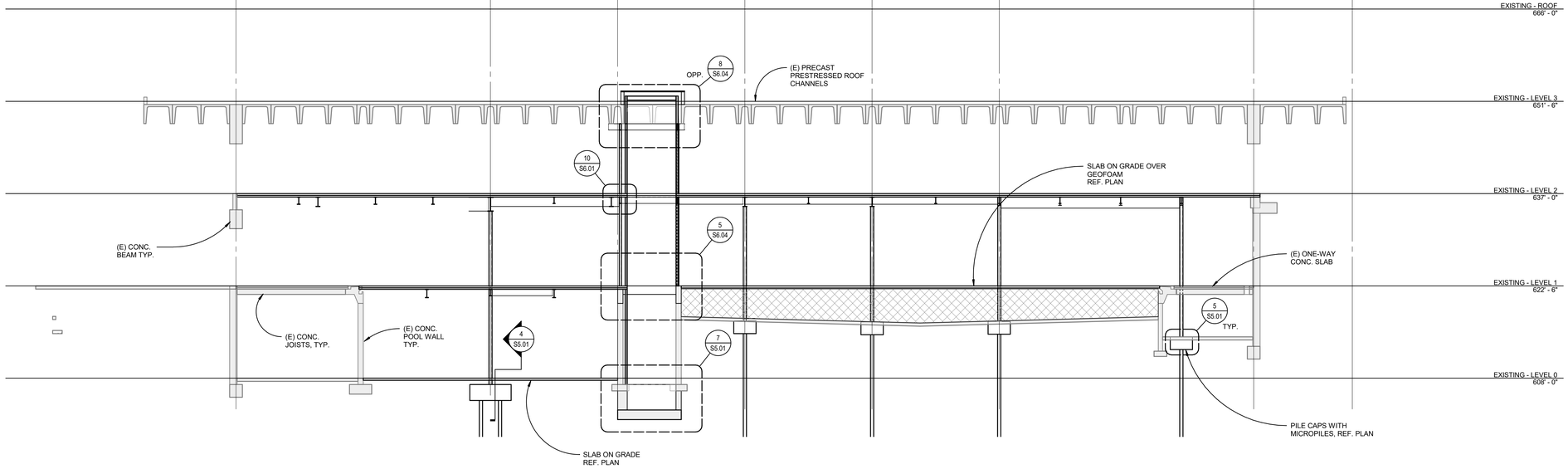
NOTES:

ALL OPENING INFILLS TO HAVE #5 REBAR @ 12" o.c. EACH WAY, WITH MATCHING EPOXY DOWELS (12" EMBED) AND f'c = 4,000 PSI.

ALL NEW OPENINGS TO BE SAWCUT w/ CORED HOLES AT CORNERS OF OPENINGS, DO NOT OVERCUT. NEW OPENINGS TO HAVE (2) LAYERS OF FYFE CARBON FIBER TYFO SCH-41, 2' WIDE ON ONE FACE OF WALL AT JAMBS AND HEAD EXTENDING 5'-0" BEYOND OPENING EACH SIDE.



1 BUILDING SECTION AT GRIDLINE E
1/8" = 1'-0"



2 BUILDING SECTION AT ELEVATOR
1/8" = 1'-0"

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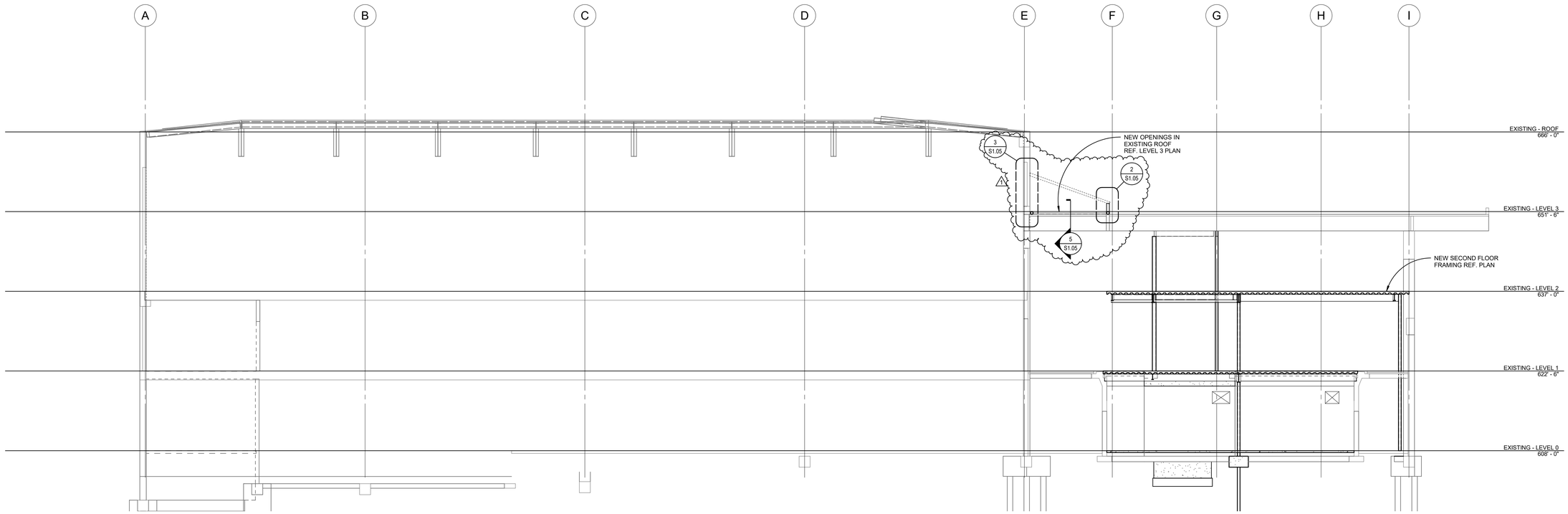
Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24
2	Revision 2	07-10-24

BUILDING SECTIONS

S3.01

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1 BUILDING SECTION 3
1/8" = 1'-0"

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Revisions

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1	Revision 1	05-24-24

BUILDING SECTIONS

S3.02

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SHOTCRETE SHEAR WALL ELEVATION NOTES

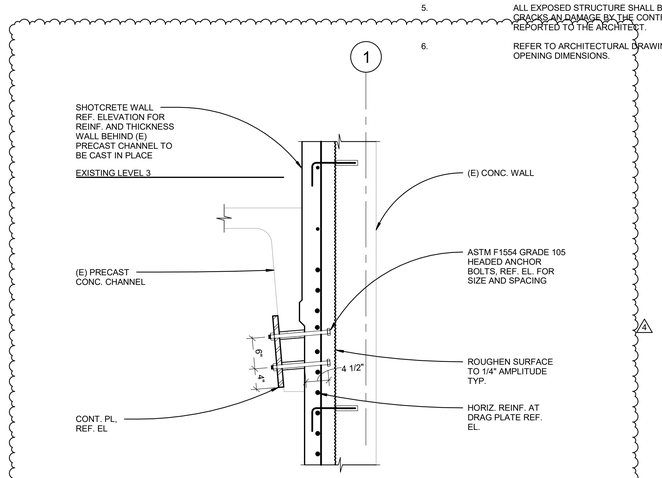
1. WALL THICKNESSES SHALL BE AS NOTED ON ELEVATIONS.
2. REFERENCE ELEVATIONS FOR SHEAR WALL REBAR AND CONCRETE STRENGTHS.
3. PROVIDE (2) #5 x 4'-0" DIAGONALLY AT EACH REBAR CURTAIN AT CORNERS OF ALL OPENINGS, TYP. U.N.O.
4. CONCRETE SHEAR WALLS ARE PART OF THE SEISMIC FORCE-RESISTING SYSTEM (SFRS).
5. LAP ALL REINFORCING BARS PER THE TYPICAL LAP SPLICE LENGTH SCHEDULES, EXCEPT AS NOTED ON DRAWINGS. USE LAP LENGTH FOR SMALLER BAR WHEN SPLICING DIFFERENT BAR SIZES.

SHEAR WALL LAP SPLICE LENGTH SCHEDULE (IN.)

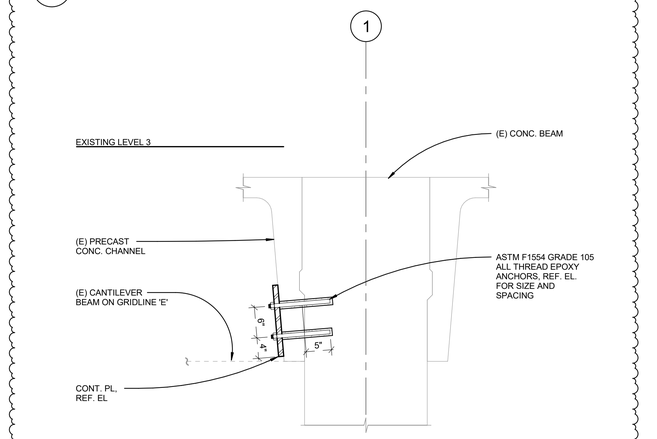
BAR SIZE	4,000 PSI		5,000 PSI		6,000 PSI	
	VERTICAL BARS	HORIZ. BARS	VERTICAL BARS	HORIZ. BARS	VERTICAL BARS	HORIZ. BARS
#3	16	20	16	18	16	18
#4	26	34	24	30	22	28
#5	32	42	28	36	26	34
#6	38	50	34	44	32	40
#7	54	78	50	70	46	64
#8	62	98	56	88	52	80
#9	70	118	64	106	58	96
#10	80	142	72	126	66	116
#11	96	166	86	148	78	136

TABLE NOTES:
1. LAP SPLICES NOTED ARE FOR CONCRETE SHEAR WALLS. FOR LAP SPLICES AT NON-LATERAL LOAD RESISTING ELEMENTS, REFERENCE GENERAL STRUCTURAL NOTES.
2. LAP SPLICES NOTED ARE FOR ASTM A615 OR ASTM A706 DEFORMED REINFORCING BARS.

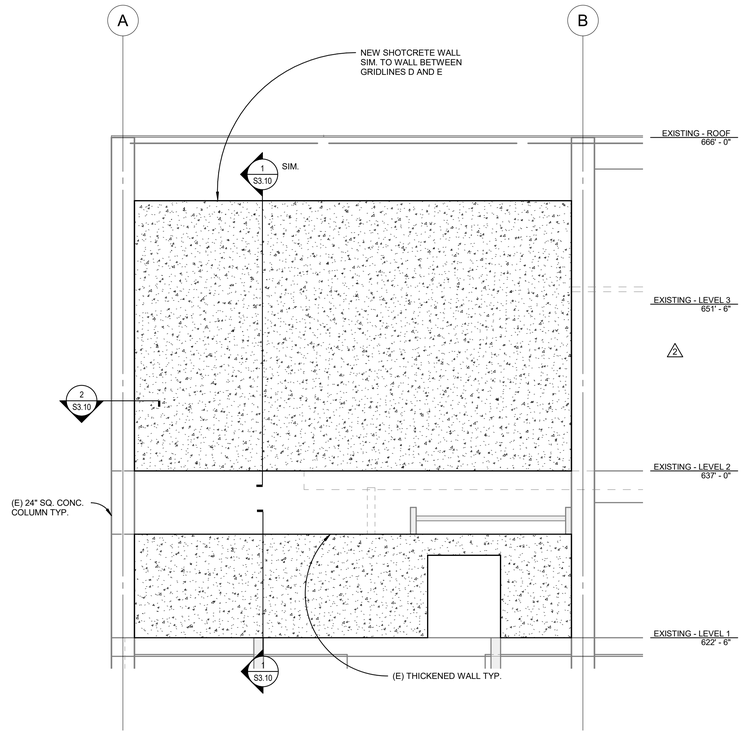
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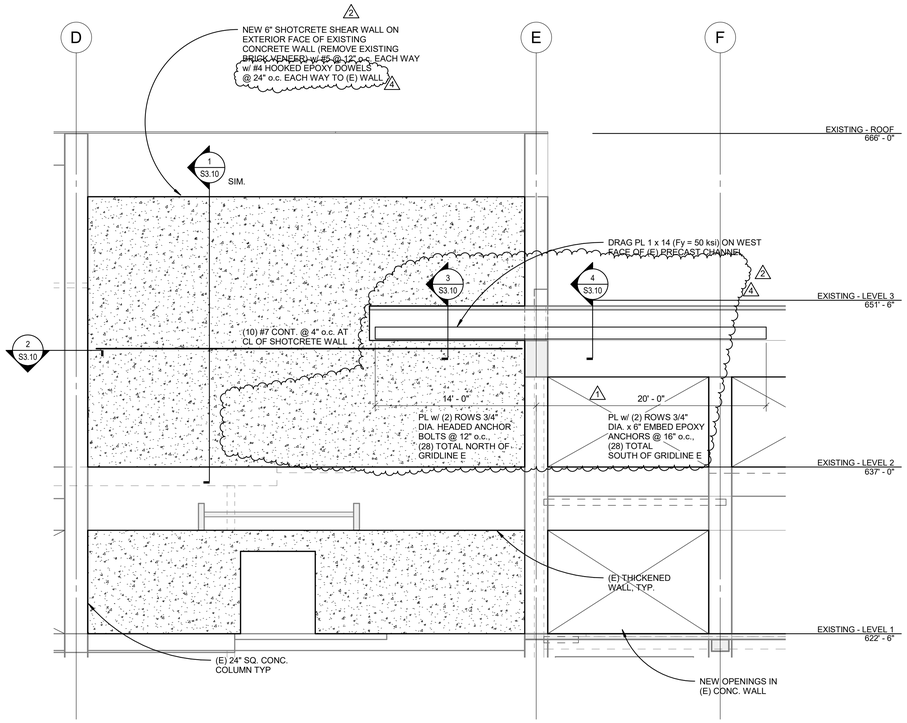
3 STEEL DRAG PLATE AT SHOTCRETE WALL
1" = 1'-0"



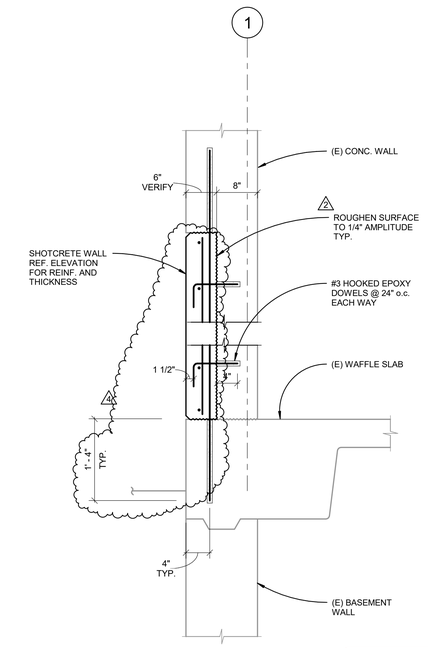
4 STEEL DRAG PLATE AT (E) CONC. BEAM
1" = 1'-0"



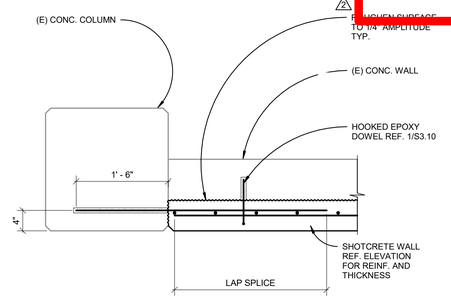
B WEST ELEVATION
3/16" = 1'-0"



A WEST ELEVATION
3/16" = 1'-0"



1 TYP. SHOTCRETE SHEAR WALL SECTION
1" = 1'-0"



2 TYP. SHOTCRETE SHEAR WALL AT (E) COLUMN AND PLAN
1" = 1'-0"

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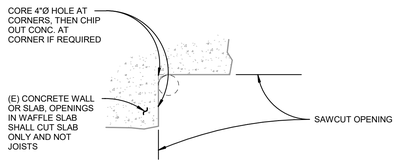
Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24
2	Revision 2	07-10-24
4	Revision 4	08-13-24

SHEAR WALL ELEVATIONS AND SFRS DETAILS

S3.10

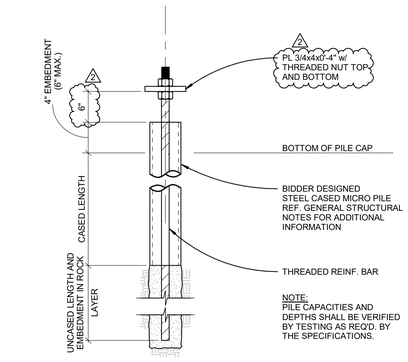
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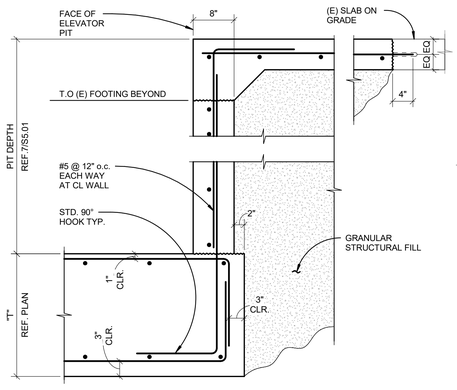
NOTES:

1. OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS SHALL CONFORM TO DETAIL 14/SS.01; NOTIFY SEOR BEFORE CUTTING NON-CONFORMING OPENINGS NOT SHOWN.
2. REF. GSN FOR SEQUENCING NOTES AT CONCRETE WALLS.
3. CORE DRILL 4"Ø HOLE TANGENT TO LINES OF FINISHED OPENING AT EACH CORNER.
4. SAWCUT TO LINES REQUIRED. DO NOT OVER-RUN AT CORNERS.
5. CHIP REMAINING CORNER CONCRETE WITH GREAT CARE AND SMALL TOOLS.
6. AT OPENINGS NOT EXPOSED TO PUBLIC VIEW, THE ENDS OF ALL EXISTING CUT REINFORCING SHALL BE COATED WITH A HEAVY COAT OF ASPHALTIC PAINT.

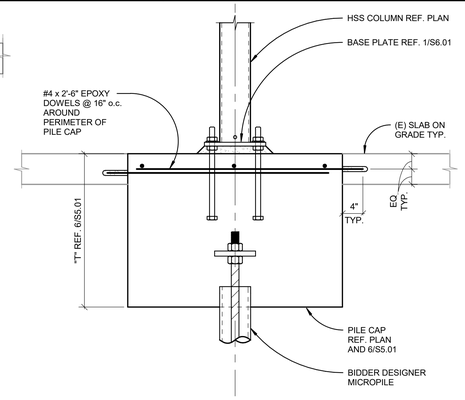
13 TYP. (N) OPENING IN CONCRETE
1" = 1'-0"



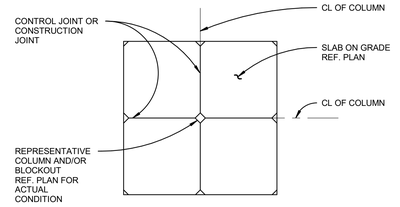
9 TYP. MICRO PILE DETAIL
1" = 1'-0"



8 SECTION AT ELEVATOR PIT
1" = 1'-0"



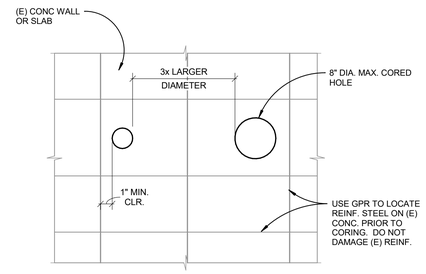
5 TYP. PILE CAP AT HSS COLUMN
1" = 1'-0"



NOTES:

1. REF. PLAN FOR SLAB ON GRADE THICKNESS AND REINFORCEMENT.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING JOINT LAYOUT FOR REVIEW AND APPROVAL BY ARCHITECT AND STRUCTURAL ENGINEER.
3. SAWED JOINTS SHALL BE MADE AS SOON AS THE JOINT CAN BE CUT WITHOUT EDGES RAVELING AND WITHIN 12 HOURS OF SLAB PLACEMENT.

1 TYP. JOINTS AT SLAB ON GRADE
1" = 1'-0"



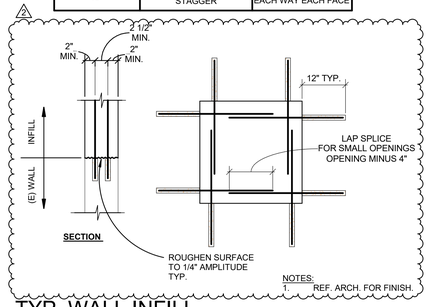
DO NOT CORE OPENINGS AT:

- COLUMNS
- BEAMS, GIRDERS, JOISTS
- PRECAST CHANNEL WEBS
- DROP PANELS OR WITHIN 3'-0" OF COLUMNS

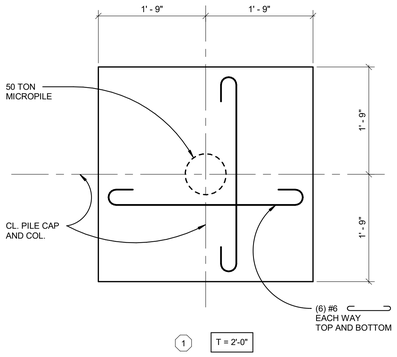
14 TYP. CONC. OPENINGS FOR PIPE AND CONDUIT
1" = 1'-0"

TYP. CONCRETE INFILL REINF. SCHEDULE

WALL THICKNESS	EPOXY DOWELS	REINF.
8"	#4 @ 8" o.c. @ CL WALL	#4 @ 8" o.c. EACH WAY
10"	(2) ROWS #4 @ 16" o.c. STAGGER	#4 @ 16" o.c. EACH WAY EACH FACE

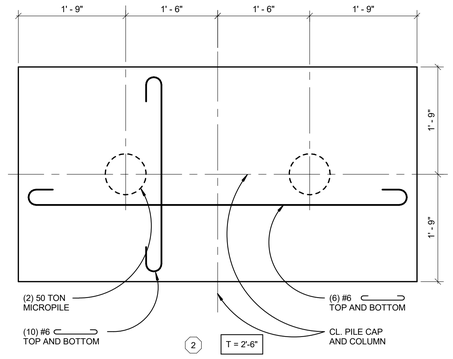


10 TYP. WALL INFILL
1" = 1'-0"

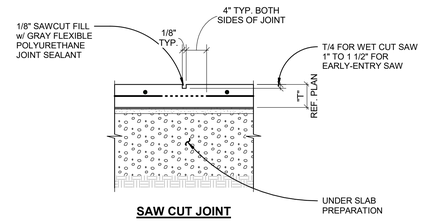


PILE CAP PLAN

6 PILE CAP PLANS
1" = 1'-0"



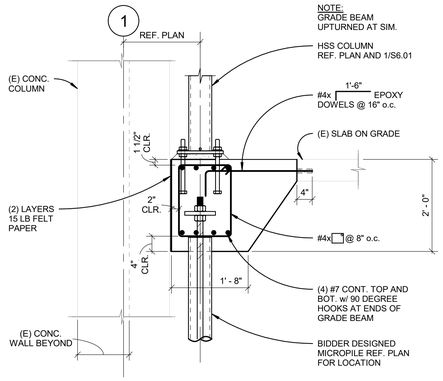
PILE CAP PLAN



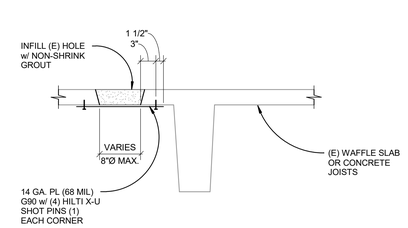
SAW CUT JOINT

NOTE:
REF. 1/SS01 FOR ADDITIONAL INFORMATION.

2 TYP. CONTROL JOINTS IN SLAB ON GRADE
1" = 1'-0"



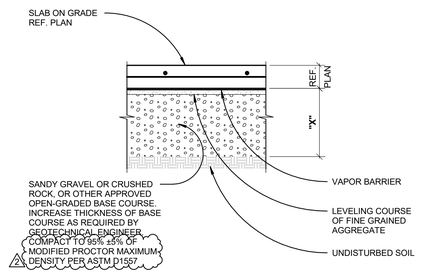
15 MICROPILE AT GRADE BEAM
3/4" = 1'-0"



NOTES:

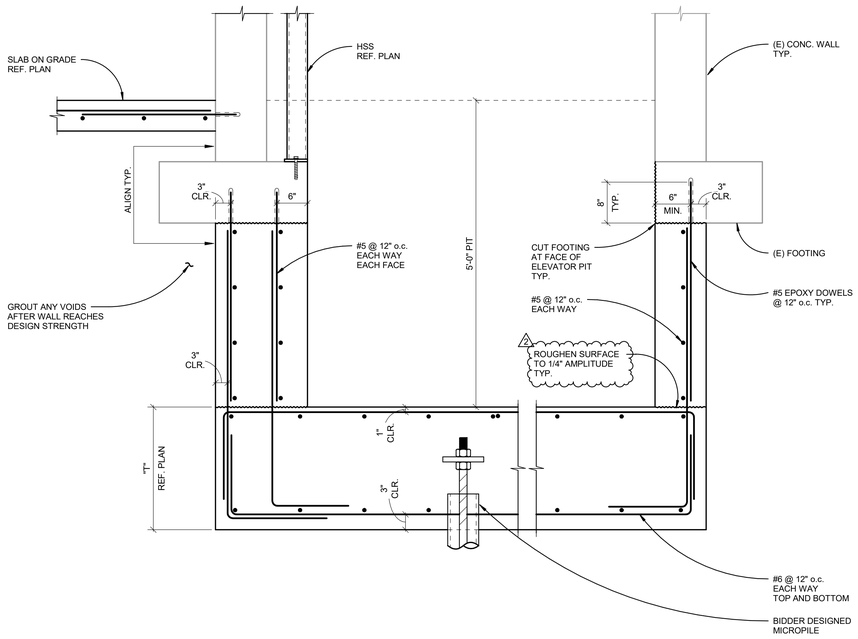
1. SIDES OF (E) HOLE TO BE ROUGHENED AND TAPERED 1" WIDER AT TOP OF SLAB THAN AT BOTTOM.
2. OPENINGS LARGER THAN 8" SHALL BE INFILLED WITH 6" THICK CONCRETE SLAB EXTENDING THE FULL SLAB SPAN BETWEEN JOISTS.

11 WAFFLE SLAB INFILL (E) HOLES
1" = 1'-0"

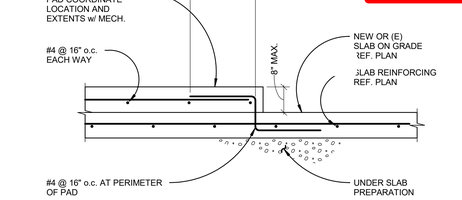


NOTE:
REF. 1/SS.01 FOR ADDITIONAL INFORMATION.

12 TYP. UNDER SLAB PREPARATION AT SLAB ON GRADE
1" = 1'-0"



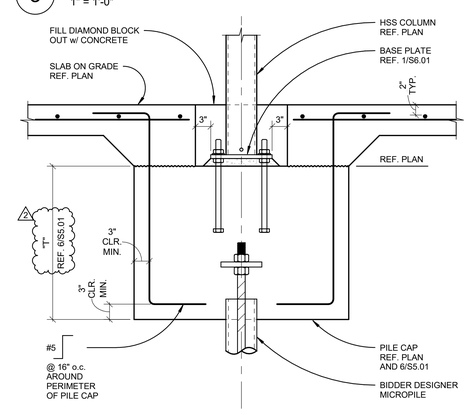
7 SECTION AT ELEVATOR PIT
1" = 1'-0"



NOTES:

1. DRILL AND EPOXY w/ 4" EMBEDMENT IN LIEU OF DOWELS AT CONTRACTOR'S OPTION.

3 TYP. HOUSEKEEPING PAD AT SLAB ON GRADE
1" = 1'-0"



4 TYP. PILE CAP AT HSS COLUMN
1" = 1'-0"

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10022200424 R-22 (ACC)

City of Portland
Reviewed for Code Compliance
Date: 8/21/2024
Permit #: 24-020319-STR-01-CO

Portland Community College
12000 SW 49th Ave.
Portland, Oregon
97219

PCC SY-HT Building West Side Renovation
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Portland, Oregon 97219

Date	02/23/24
Project No.	221000

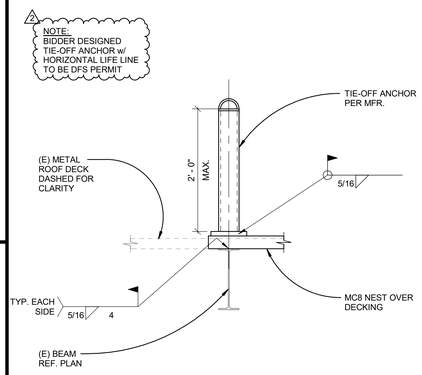
Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24
2	Revision 2	07-10-24

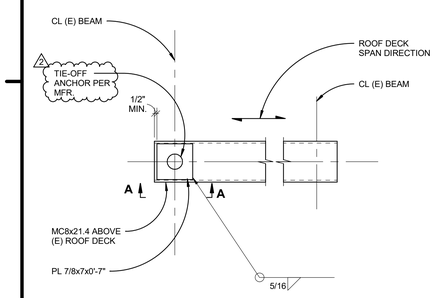
TYPICAL CONCRETE DETAILS

S5.01

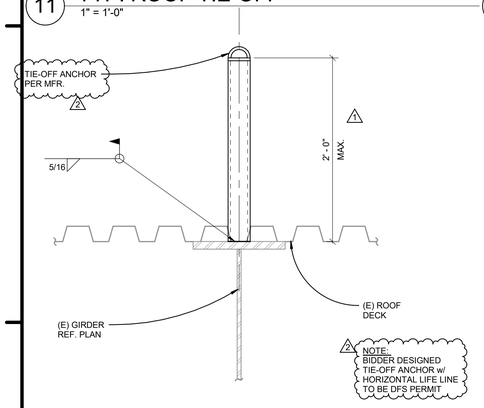
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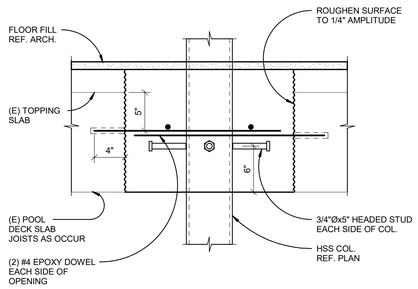
SECTION A-A



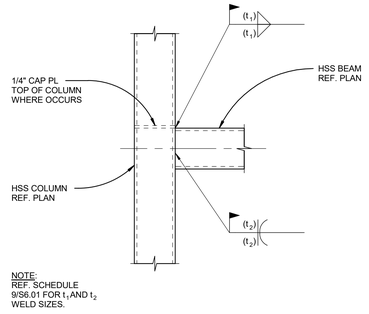
11 TYP. ROOF TIE-OFF
1" = 1'-0"



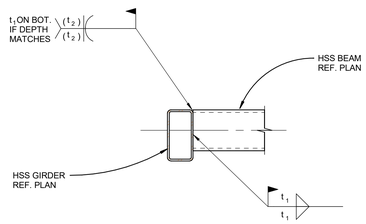
12 ROOF TIE-OFF AT (E) GIRDER
1 1/2" = 1'-0"



13 HSS COL. AT (E) POOL DECK
1 1/2" = 1'-0"

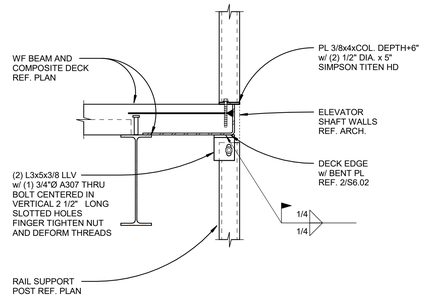


8 HSS BEAM TO COLUMN CONNECTION
1" = 1'-0"

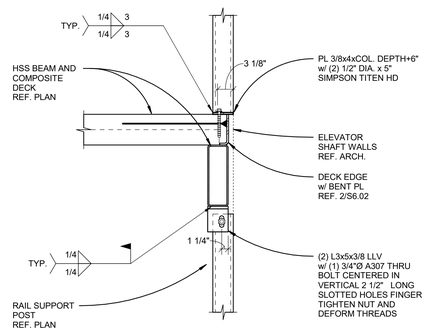


BEAM CONNECTION SCHEDULE		
BEAM SIZE	WELD t_1	WELD t_2
HSS12x4	1/4	(3/16)

9 HSS BEAM TO BEAM CONNECTION
1" = 1'-0"



TYPICAL FRAMING STOPS

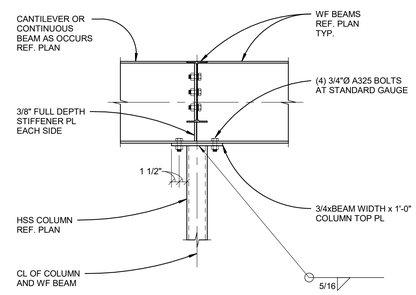


TYPICAL FRAMING STOPS BELOW BEAM

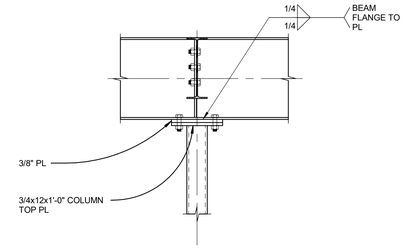
NOTES:

1. FOR DECK EDGE REF. 2/S6.02

10 ELEVATOR RAIL SUPPORT FRAMING
1" = 1'-0"



BEAM FLANGE bf ≥ 5 1/2"

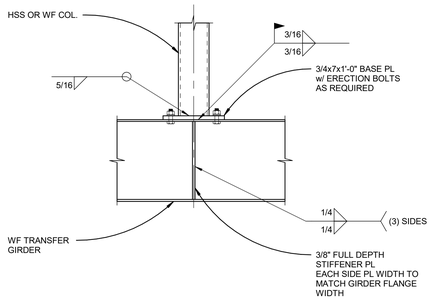


BEAM FLANGE bf < 5 1/2"

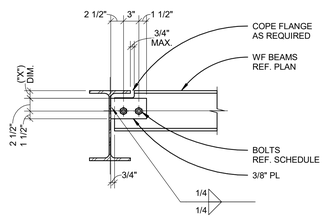
NOTES:

1. FOR STIFFENER PL INFORMATION REF. 3/S6.01.
2. FOR INFORMATION NOT SHOWN ON BEAM FLANGE < 5 1/2" REF. CONDITION BEAM FLANGE > 5 1/2".

5 TYP. BEAM OVER COLUMN DETAIL
1" = 1'-0"



6 TYP. COLUMN TRANSFER CONNECTION
1" = 1'-0"



W6 OR W8 BEAM TO BEAM DESIGNATED 2D

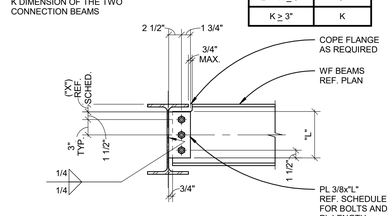
NOTES:

1. FOR SCHEDULE REF. 2/S6.01.
2. FOR ("X") DIMENSION REF. DETAIL 3/S6.01.

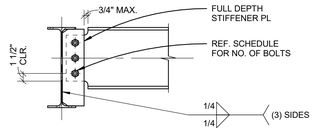
7 2D BOLTED BEAM TO BEAM CONNECTION
1" = 1'-0"

K	"X"
K ≤ 1 1/2"	1 1/2"
1 1/2" < K ≤ 2"	2"
2" < K ≤ 3"	3"
K > 3"	K

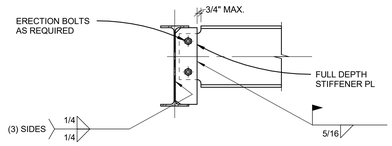
NOTE:
K REPRESENTS THE LARGER
K DIMENSION OF THE TWO
CONNECTION BEAMS



TYP. BEAM TO BEAM DESIGNATED X .



FULL DEPTH SHEAR PL DESIGNATED XS .

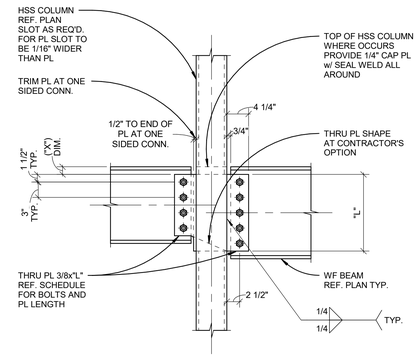


FULL DEPTH WELDED SHEAR PL DESIGNATED XW .

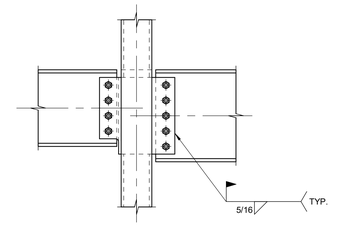
NOTES:

1. FOR SCHEDULE REF. 2/S6.01.
2. FOR INFORMATION NOT SHOWN ON XS AND XW REFERENCE CONDITION X .

3 TYP. BOLTED BEAM TO BEAM CONNECTION
1" = 1'-0"



BEAM TO HSS COLUMN DESIGNATED XS .

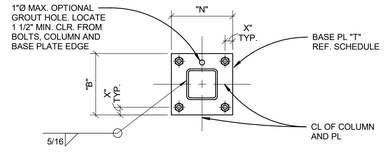


WELDED BEAM TO HSS COLUMN SHEAR PL - DESIGNATED XW .

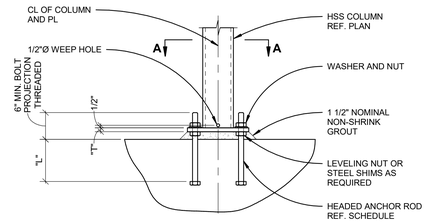
NOTES:

1. FOR INFORMATION NOT SHOWN XW REF. CONDITION XS.
2. FOR PL LENGTH ("L") AND BOLTS REF. SCHEDULE 2/S6.01.
3. FOR ("X") DIMENSION REF. DETAIL 3/S6.01.
4. PERPENDICULAR BEAMS NOT SHOWN FOR CLARITY.

4 BOLTED THRU PL AT WF BEAM TO HSS COLUMN
1" = 1'-0"



SECTION A-A



HSS COLUMN

TYP. GRAVITY COLUMN BASE PL SCHEDULE						
COLUMN SIZE	N (IN.)	B (IN.)	T (IN.)	X (IN.)	L (IN.)	ANCHOR RODS (NO.) DIAMETER
HSS6x4	8	12	3/4	1 1/2	8	3/4
HSS8x4	8	14	3/4	1 1/2	8	3/4
HSS6x6	12	12	1	1 1/2	8	3/4

NOTES:

1. ANCHOR RODS SHALL BE HEADED ASTM F1554 GRADE 36 U.N.O. THREADED ROD MAY BE USED AT CONTRACTOR'S OPTION PROVIDED THAT NUT IS TACK WELDED TO ROD.
2. ANCHOR ROD HOLE DIAMETERS (dh) SHALL BE AS FOLLOWS:
   db ≤ 1" : dh = db + 5/16"
   1" < db ≤ 2" : dh = db + 1/2"
   db > 2" : dh = db + 1"
3. PROVIDE MILLED BEARING SURFACE FINISH AT BOTTOM OF COLUMN AND TOP OF BASE PL
4. ACCEPTABLE TO SLOT HOLES RADIALLY WITH X" MINIMUM DISTANCE FROM EDGE OF HOLE TO EDGE OF PLATE TO ALLOW FOR CONSTRUCTION TOLERANCE WITH SQUARE OR CIRCULAR PL WASHERS (ASTM A36). MINIMUM WASHER SIZES SHALL BE IN ACCORDANCE WITH AISC TABLE 14-2.

1 TYP. GRAVITY COLUMN BASE PLATE DETAIL
1" = 1'-0"

SINGLE ROW BEARING BOLTED BEAM CONNECTION SCHEDULE			
CONNECTION TYPE	NO. OF 3/4"Ø A325 BOLTS	PL LENGTH "L"	HOLE SIZE
2D	2	REFERENCE DETAIL 7/S6.01	STANDARD HOLE
2 2F	2	6"	STANDARD HOLE
3 3F	3	9"	STANDARD HOLE
4 4F	4	12"	STANDARD HOLE
5 5F	5	15"	STANDARD HOLE
6 6F	6	18"	HORIZONTAL SHORT SLOTTED HOLE IN PL
7 7F	7	21"	HORIZONTAL SHORT SLOTTED HOLE IN PL
8 8F	8	24"	HORIZONTAL SHORT SLOTTED HOLE IN PL
9 9F	9	27"	HORIZONTAL SHORT SLOTTED HOLE IN PL
10 10F	10	30"	HORIZONTAL SHORT SLOTTED HOLE IN PL

NOTES:

1. X INDICATES BEARING TYPE CONNECTION WITH THREADS INCLUDED IN SHEAR PLANE (A325N).
2. XF INDICATES SLIP CRITICAL CONNECTION (A325SC).

2 SINGLE ROW BEARING BOLTED BEAM CONNECTION SCHEDULE
1" = 1'-0"

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10022200424 R-22 (ACC)

City of Portland
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Date	02/23/24
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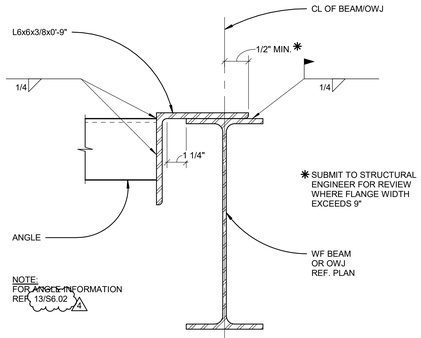
Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24
2	Revision 2	07-10-24

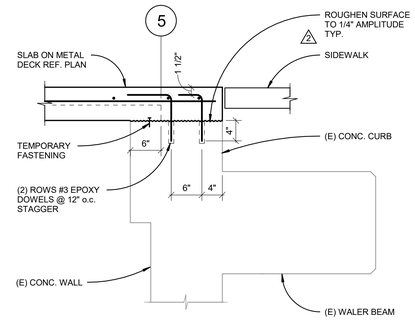
TYPICAL STEEL DETAILS

S6.01

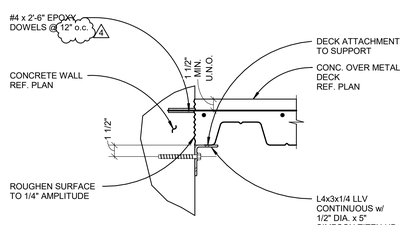
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14 TYP. FRAMING AT ROOF DECK OPENING
3" = 1'-0"



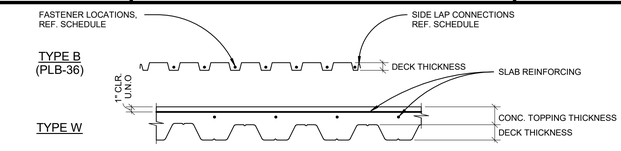
10 SECTION AT L2 EAST ENTRY
1" = 1'-0"



POST-INSTALLED ANCHOR

NOTE:
REF. SCHEDULE 1/S6.02 FOR DECK ATTACHMENT.

6 DECKING LEDGER SUPPORT ANGLE
1 1/2" = 1'-0"



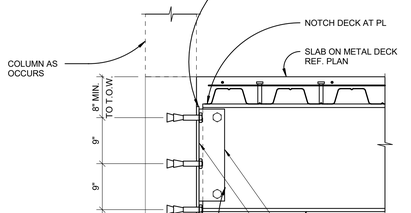
FLOOR AND ROOF DECK SCHEDULE

DECK DESIGNATION	DECK TYPE AND GAUGE	CONC. TOPPING THICKNESS	CONCRETE TOPPING STRENGTH	SLAB REINFORCING	CONNECTIONS			NOTES
					AT SUPPORT MEMBERS	AT PARALLEL MEMBERS	AT SIDE LAPS	
D-1	3"- 20 GA. TYPE W	3 1/2"	REF. S0.02	#4 @12" o.c. EACH WAY 4	1/2" EFFECTIVE DIAMETER PUDDLE WELDS AT 12" o.c.	1/2" EFFECTIVE DIAMETER PUDDLE WELDS AT 12" o.c.	BUTTON PUNCH OR 1-1/2" TOP WELD OR SIDE SEAM WELD AT 36" o.c.	NOTE 3, 4, 5
D-2	1 1/2"- 20 GA. TYPE B	-	-	-	#10 SCREWS @ 6" o.c.	#10 SCREWS @ 6" o.c.	#10 SCREWS @ 12" o.c.	NOTE 4

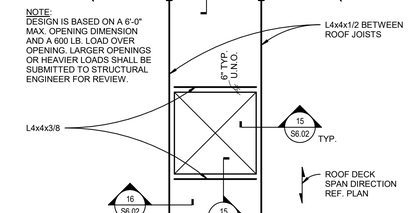
NOTES:

1. REF. GENERAL STRUCTURAL NOTES FOR BASIS OF DESIGN DECK PROPERTIES.
2. REF. GENERAL STRUCTURAL NOTES FOR CONCRETE PROPERTIES AT FLOOR DECK.
3. WELDED HEADED STUDS PER DRAWINGS MAY BE PROVIDED IN LIEU OF DECK WELDS INDICATED.
4. BASIS OF DESIGN FOR DECKING AND FASTENERS IS VERCO. USE OF ALTERNATE DECK SUPPLIERS REQUIRES AN ENGINEERED FASTENER SUBMITTAL PER EQUIVALENT DIAPHRAGM SHEAR STRENGTHS.
5. REF 5/S6.02 FOR STUD HEIGHTS AT COMPOSITE DECK.

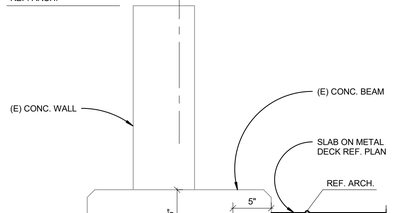
1 FLOOR AND ROOF DECK SCHEDULE
1" = 1'-0"



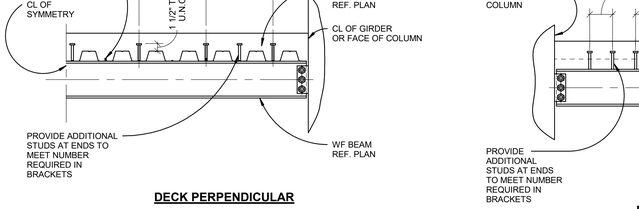
15 TYP. DETAIL AT ROOF DECK OPENING
3" = 1'-0"



11 L2 DECK EDGE
1" = 1'-0"



7 BEAM AT BOTTOM OF STAIR
1" = 1'-0"



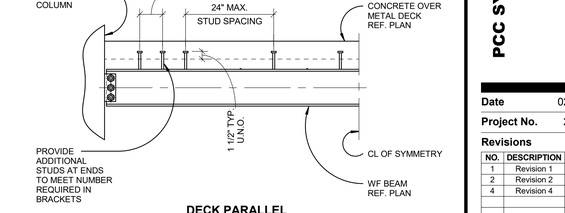
DECK PERPENDICULAR

DECK PARALLEL (CENTERED)

DECK PARALLEL (OFF-CENTER)

NOTE:
REF. SCHEDULE 1/S6.02 FOR DECK ATTACHMENT AND SLAB REINFORCING.

4 TYP. COMPOSITE DECK TO BEAM
1" = 1'-0"



NOTES:

1. REF. GENERAL STRUCTURAL NOTES FOR LAP SPLICE LENGTH.
2. REF. SCHEDULE 1/S6.02 FOR DECK ATTACHMENT.

2 TYP. EDGE OF COMPOSITE DECK
1" = 1'-0"

NOTE:
REF. SCHEDULE 1/S6.02 FOR DECK ATTACHMENT AND SLAB REINFORCING.

3 TYP. CHANGE IN DECK ORIENTATION
1" = 1'-0"

16 TYP. FRAMING AT ROOF DECK OPENING
3" = 1'-0"

12 L2 DECK EDGE, PLAN
1" = 1'-0"

8 L2 DECK AT (E) WALL
1 1/2" = 1'-0"

DECK PERPENDICULAR

DECK PARALLEL

NOTES:

1. THE MINIMUM NUMBER OF STUDS REQUIRED IS SHOWN AS [X]ON THE FRAMING PLANS. [X-Y-Z] FORMAT, WHERE SHOWN INDICATES NUMBER OF STUDS ON A GIRDER BETWEEN BEAM CONNECTION POINTS. ADDITIONAL STUDS MAY BE REQUIRED TO MEET THE ABOVE MAXIMUM SPACING REQUIREMENTS.
2. IF MULTIPLE STUDS ARE REQUIRED IN ONE FLUTE, THE TRANSVERSE SPACING SHALL BE 3" MINIMUM.
3. PROVIDE ADDITIONAL STUDS AT BEAM PENETRATIONS PER DETAILS 10/S6.03 AND 11/S6.03.

5 TYP. COMPOSITE DECK BEAM STUD SPACING
1" = 1'-0"

17 BEAM TO WALL
1" = 1'-0"

13 TYP. FRAMING AT ROOF DECK OPENING
1" = 1'-0"

9 L2 DECK AT STAIR LANDING
1 1/2" = 1'-0"

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JULY 10, 1981
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10022200424 R-22 (ACC)

City of Portland
Reviewed for Code Compliance
Date: 8/21/2024
Permit #: 24-020319-STR-01-CO

Portland Community College
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Portland, Oregon 97219

PCC SY-HT Building West Side Renovation
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Date	02/23/24
Project No.	221000

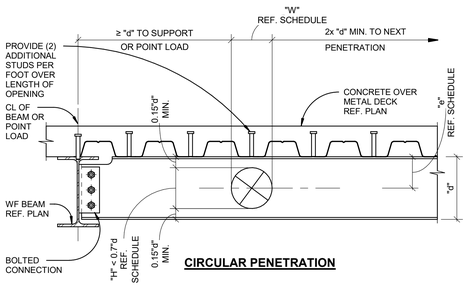
Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24
2	Revision 2	07-10-24
4	Revision 4	08-13-24

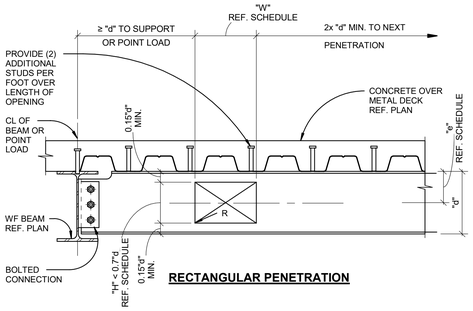
TYPICAL STEEL DETAILS

S6.02

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CIRCULAR PENETRATION

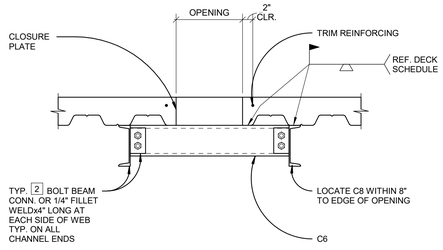


RECTANGULAR PENETRATION

NOTES:

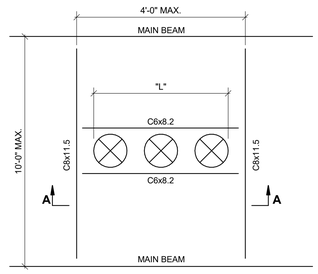
1. REF. PLANS FOR SIZES AND LOCATIONS OF PENETRATIONS CONTRACTOR TO VERIFY.
2. ALL PENETRATION SHALL BE IN SHOP DRAWINGS AND REVIEWED BY THE ENGINEER. NO PENETRATIONS SHALL BE MADE WITHOUT APPROVAL FROM ENGINEER.
3. R = 2x WEB THICKNESS OR 5/8" WHICHEVER IS GREATER.
4. FOR BEAM PENETRATION SCHEDULE REF. 3/S6.03.
5. FOR BOLTED CONNECTION REF. 3/S6.01.
6. CORE DRILL AT OPENING CORNER w/ MIN. 1/2" RADIUS.

10 BEAM PENETRATION - UNREINFORCED
1" = 1'-0"



NOTE:
WHEN THE MAXIMUM DIMENSION OF AN OPENING GROUP EXCEEDS 48" NOTIFY ENGINEER FOR DESIGN.

SECTION A-A

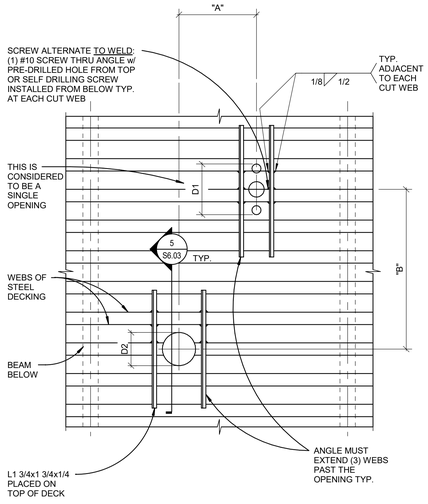


NOTES:

1. FOR TRIM REINFORCING REF. 2/S6.03.
2. FOR CLOSURE PLATE REF. 1/S6.03.
3. IF "L" <24 CONSIDER THE COMBINED HOLES AS ONE AND STRENGTHEN REF. 4/S6.03.
4. AT (E) FLOOR DECKS FASTEN CHANNEL FLANGES w/ 3/8"Ø x2 1/2" EMBEDMENT ANCHORS @ 24" o.c. TYP.

PARTIAL FRAMING PLAN

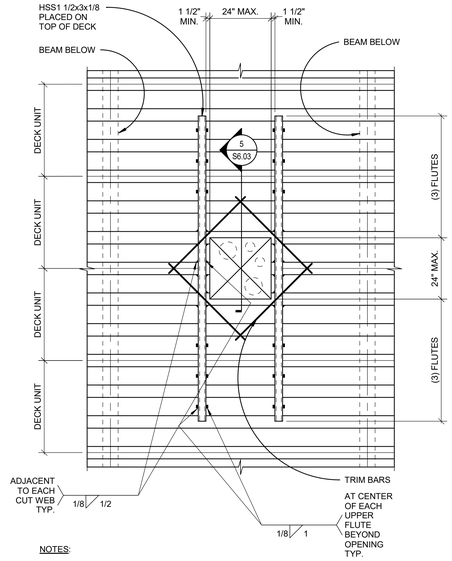
8 COMPOSITE DECK REINFORCING AT 48" MAX. FORMED OPENINGS
1" = 1'-0"



NOTES:

1. HOLES 6"Ø AND LESS LOCATED AT RANDOM OR 13"Ø AND LESS CENTERED ON DECK LOW FLUTES DO NOT REQUIRE REINFORCING. REF. 5/S6.03.
2. PRIOR TO CONCRETE POUR, OPENINGS SHALL BE BLOCKED OUT w/ DECK LEFT INTACT. AFTER CONCRETE HAS CURED THE BLOCK OUT MAY BE REMOVED AND THE DECK CUT OUT TO THE EDGE OF THE CONCRETE POUR.
3. THE CONTRACTOR SHALL REINFORCE OR SHORE THE DECK AS REQUIRED TO SUPPORT LOADS DURING CONCRETE PLACEMENT.
4. IF DIMENSION "A" IS GREATER THAN 4D1, 4D2 OR 32" WHICHEVER IS LARGER THEN THERE IS NO RESTRICTION ON DIMENSION "B".
5. IF DIMENSION "B" IS GREATER THAN 4D1, 4D2 OR 32" WHICHEVER IS LARGER THEN THERE IS NO RESTRICTION ON DIMENSION "A".
6. IF DIMENSION "A" AND "B" ARE LESS THAN 4D1, 4D2 OR 32" WHICHEVER IS LARGER, THE OPENING GROUP WILL BE CONSIDERED AS A SINGLE HOLE, AND MUST BE REINFORCED AS REQUIRED FOR THE LARGER OPENING.

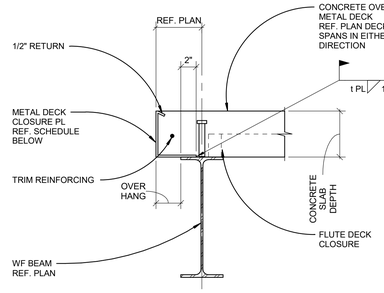
6 COMPOSITE DECK REINFORCING AT PENETRATIONS < 13" DIA OR LESS
1" = 1'-0"



NOTES:

1. REF. 6/S6.03 FOR DIMENSION REQUIREMENTS WHERE ADJACENT HOLES MUST BE CONSIDERED AS ONE OPENING.
2. IF THE OPENING OR GROUP OF OPENINGS OCCURS IN ONE DECKING UNIT, THE OPENING OR OPENING GROUP MAY BE CUT PRIOR TO POURING OF CONCRETE.
3. IF, AS SHOWN IN THE DETAIL ABOVE, THE OPENING OR OPENING GROUP CUTS THROUGH TWO DECK UNITS, THE DECKING SHALL NOT BE CUT UNTIL CONCRETE HAS BEEN PLACED AND CURED.
   a. AT THE TIME OF POURING, SUITABLE SLEEVES OR BULKHEADS SHALL BE PLACED AROUND THE OPENING.
4. WHEN THE MAXIMUM DIMENSION OF AN OPENING OR OPENING GROUP EXCEEDS 24", PLACE HEADER BEAMS AROUND OPENING, NOTIFY ENGINEER FOR DESIGN.
5. FOR TRIM BAR REINFORCING REF. 2/S6.03.
6. FOR OPENING LARGER THAN THOSE SHOWN REF. 8/S6.03 FOR DECK REINFORCING REQUIREMENTS U.N.O.

4 COMPOSITE DECK REINFORCING AT PENETRATIONS > 13" DIA
1" = 1'-0"



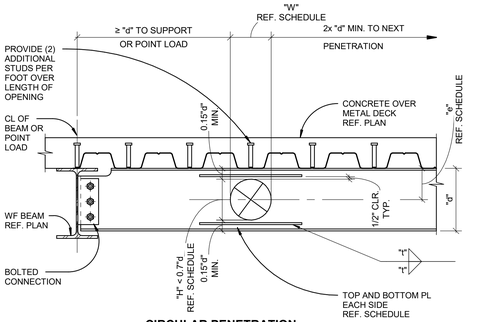
NOTES:

1. WHERE CLADDING, GUARDRAIL, ELEVATOR RAILS OR OTHER ATTACHMENT AT SLAB EDGE OCCUR. REF. TYP. EDGE OF DECK DETAIL 2/S6.02 U.N.O.
2. FOR TRIM REINFORCING REF. 2/S6.03.

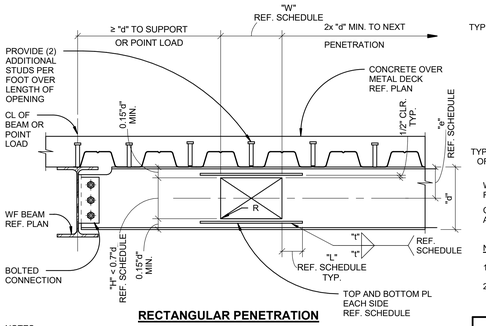
EDGE FORM GAUGE

SLAB DEPTH (IN.)	OVERHANG (IN.)		
	≤4	≤8	≤10
≤5 1/2	16	10	10
≤6 1/2	14	10	-
≤7 1/2	14	10	-

1 EDGE OF DECK DETAIL
1 1/2" = 1'-0"



CIRCULAR PENETRATION

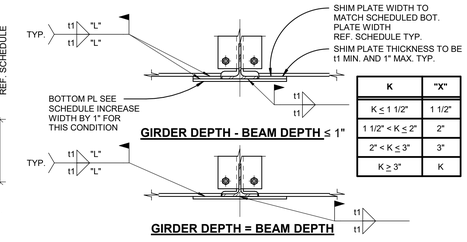


RECTANGULAR PENETRATION

NOTES:

1. REF. PLANS FOR SIZES AND LOCATIONS OF PENETRATIONS CONTRACTOR TO VERIFY.
2. ALL PENETRATION SHALL BE IN SHOP DRAWINGS AND REVIEWED BY THE ENGINEER. NO PENETRATIONS SHALL BE MADE WITHOUT APPROVAL FROM ENGINEER.
3. R = 2x WEB THICKNESS OR 5/8" WHICHEVER IS GREATER.
4. FOR BEAM PENETRATION SCHEDULE REF. 3/S6.03.
5. FOR BOLTED CONNECTION REF. 3/S6.01.
6. CORE DRILL AT OPENING CORNER w/ MIN. 1/2" RADIUS.

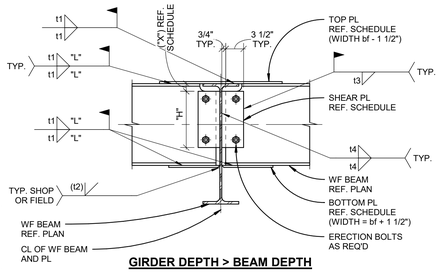
11 BEAM PENETRATION - REINFORCED
1" = 1'-0"



GIRDER DEPTH - BEAM DEPTH ≤ 1"

GIRDER DEPTH = BEAM DEPTH

K	"X"
K ≤ 1 1/2"	1 1/2"
1 1/2" < K ≤ 2"	2"
2" < K ≤ 3"	3"
K ≥ 3"	K



GIRDER DEPTH > BEAM DEPTH

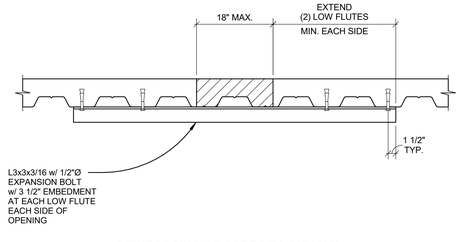
NOTES:

1. K REPRESENTS THE LARGER K DIMENSION OF THE TWO CONNECTION BEAMS.
2. CONTRACTOR TO PROVIDE DECK SUPPORT MISC. STEEL AS REQUIRED.

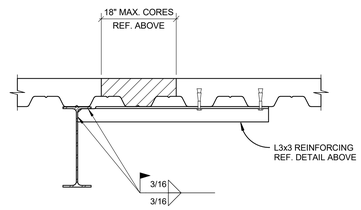
TYP. BEAM TO BEAM MOMENT CONNECTION SCHEDULE

BEAM SIZE	TOP PL THICKNESS	BOTTOM PL THICKNESS	SHEAR PL		WELD t1		WELD t2	WELD t3	WELD t4
			THICKNESS	HEIGHT "H"	THICKNESS	LENGTH "L"			
W18x50	3/4	5/8	3/8	12	5/16	22	(1/4)	5/16	1/4

9 TYP. BEAM TO BEAM MOMENT CONNECTION
1" = 1'-0"



REINFORCING AT CORES TO 18" MAX.

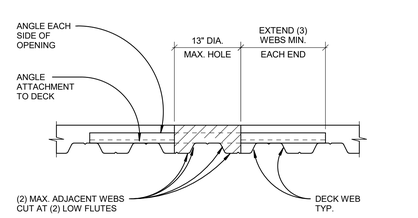


ANGLE REINFORCING AT WF CONFLICT

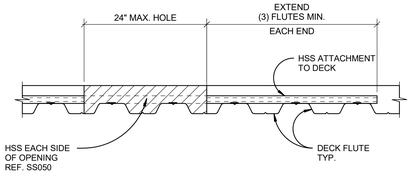
NOTES:

1. REF. 6/S6.03 FOR DIMENSION REQUIREMENTS WHERE ADJACENT HOLES MUST BE CONSIDERED AS ONE OPENING.
2. REF. 5/S6.03 FOR CORES TO 13" MAX. CENTERED ON DECK LOW FLUTE AND 6"Ø MAX. CORES LOCATED AT RANDOM.

7 TYP. POST-INSTALLED DECK REINFORCING AT HOLES
1" = 1'-0"



REINFORCING AT HOLES GREATER THAN 6" TO 13" MAX. LOCATED w/ IMPACTS TO (2) ADJACENT LOW FLUTES

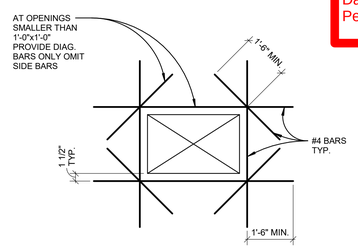


REINFORCING AT HOLES 13" TO 24" MAX.

NOTES:

1. REF. 4/S6.03 AND 6/S6.03 FOR CRITERIA ON DECK CUTTING PRIOR TO POUR OR AFTER CONCRETE CURING.
2. FOR HSS ATTACHMENT TO DECK REF. 4/S6.03.
3. FOR ANGLE ATTACHMENT TO DECK REF. 6/S6.03.

5 TYP. DECK REINFORCING AT HOLES
1" = 1'-0"



NOTE:
ALL OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS THAT ARE LARGER THAN 1'-0" SQUARE AND ALL MULTIPLE HOLES SPACED CLOSER THAN 3x LARGEST OPENING DIMENSION, SHALL BE SUBMITTED FOR REVIEW TO THE STRUCTURAL ENGINEER.

2 TYP. TRIM REINFORCING AT CONC. OVER METAL DECK OPENING
1" = 1'-0"

BEAM PENETRATION

MARK	TYPE	"H"	"W"	"e"	REINF. PLATE			WELD
					"L"	WIDTH	THICKNESS	"t"
1	U				-	-	-	-
2	U				-	-	-	-
3	R							
4	R							
5	R							
6	R							

NOTES:

1. U INDICATES UNREINFORCED BEAM PENETRATION REF. 10/S6.03.
2. R INDICATES REINFORCED BEAM PENETRATION REF. 11/S6.03.

3 BEAM PENETRATION - SCHEDULE
1" = 1'-0"

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STRUCTURAL
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Date 02/23/24
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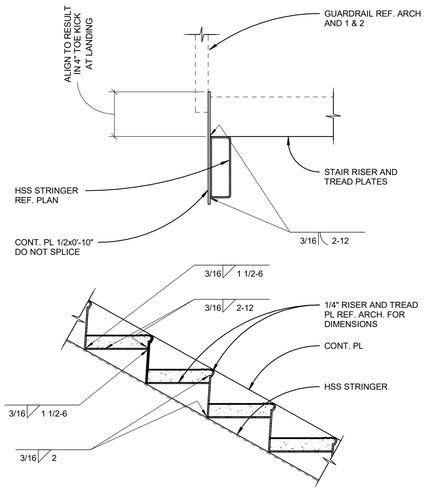
Revisions

NO.	DESCRIPTION	DATE

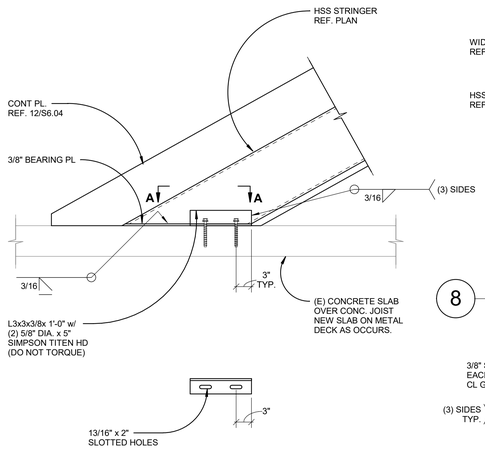
TYPICAL STEEL DETAILS

S6.03

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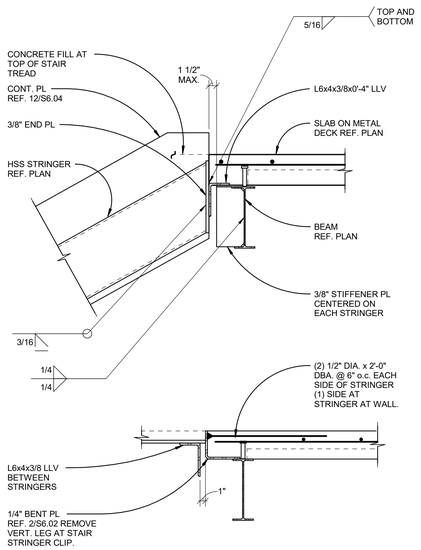


12 TYP. STAIR STRINGER AND TREADS
1" = 1'-0"



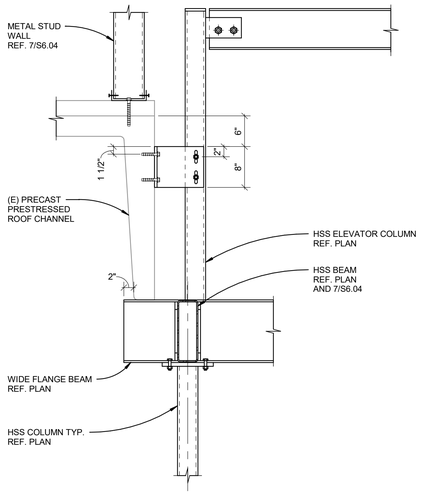
SECTION A-A

13 STAIR STRINGER BOTTOM CONN.
1" = 1'-0"



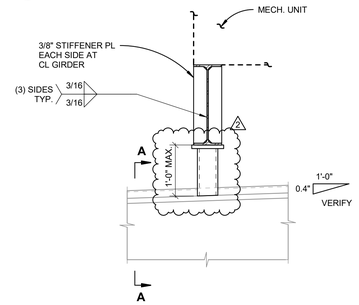
SECTION BETWEEN STRINGERS

14 STAIR STRINGER TOP CONN.
1" = 1'-0"

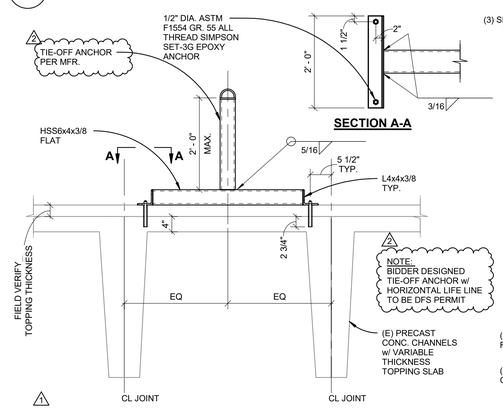


NOTE:
LOCATE BONDED P/T STRANDS IN (E)PRECAST CHANNEL. AVOID DRILLING WITHIN 2" OF STRANDS.

8 ELEVATOR SECTION AT ROOF
1" = 1'-0"

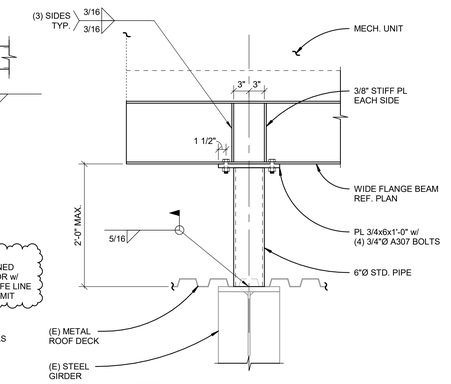


9 AHU SUPPORT BEAM TO (E) GIRDER
1" = 1'-0"

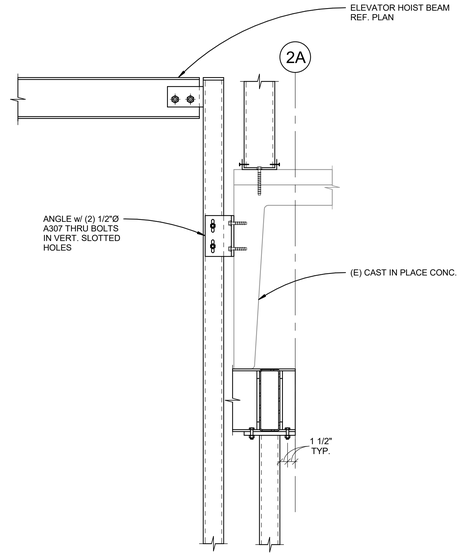


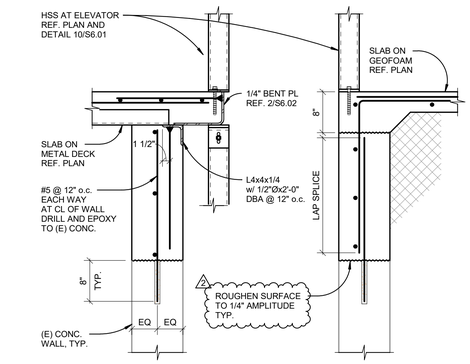
SECTION A-A

11 ROOF TIE-OFF AT SECTOR C
3/4" = 1'-0"



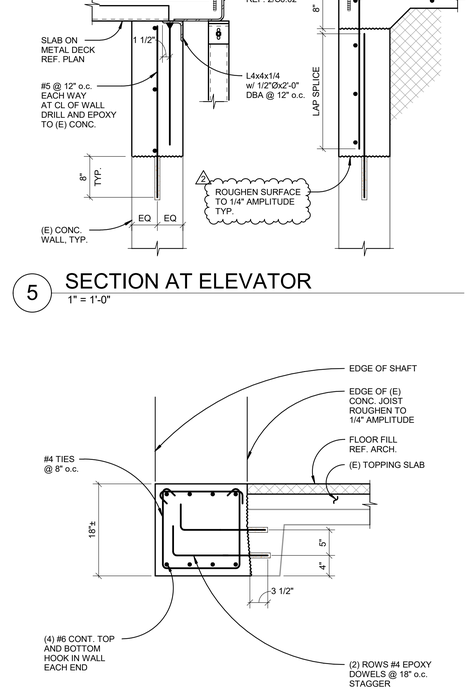
10 CHILLER SUPPORT BEAM TO (E) GIRDER
1" = 1'-0"





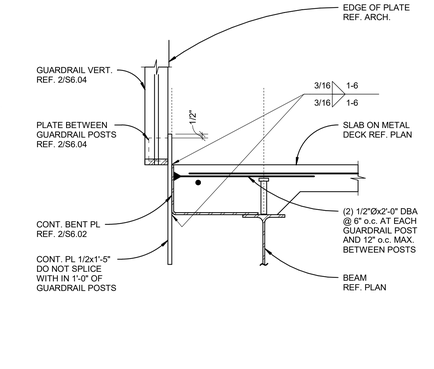
5 SECTION AT ELEVATOR
1" = 1'-0"

6 SECTION AT L1 SHAFT B/W POOLS
1" = 1'-0"

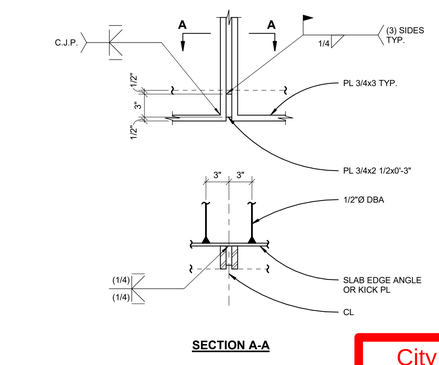


NOTE:
LOCATE BONDED P/T STRANDS IN (E) PRECAST CHANNEL. AVOID DRILLING WITHIN 2" OF STRANDS.

7 ELEVATOR SECTION AT ROOF
1" = 1'-0"

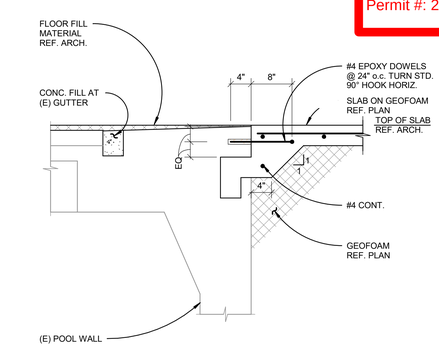


1 TYP. SLAB EDGE AT GUARDRAIL
1 1/2" = 1'-0"

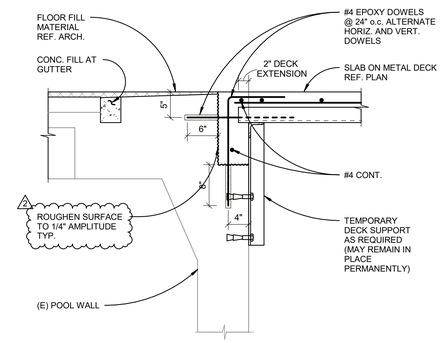


SECTION A-A

2 TYP. GUARDRAIL CONNECTION
1 1/2" = 1'-0"



3 TYP. SECTION AT SLAB ON GEOFOAM
1" = 1'-0"



4 TYP. SECTION AT DIVE WELL POOL INFILL
1" = 1'-0"

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10022200424 R-22 (ACC)

City of Portland
Reviewed for Code Compliance
Date: 8/21/2024
Permit #: 24-020319-STR-01-CO

Portland Community College
12000 SW 49th Ave.
Portland, Oregon
97219

PCC SY-HT Building West Side Renovation
12000 SW 49th Ave.
Portland, Oregon 97219

Date	02/23/24
Project No.	221000

Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24
2	Revision 2	07-10-24

STEEL DETAILS

S6.04

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DRAWING SYMBOLS

- BUILDING SECTION (1 / A3.01)
- WALL SECTION (1 / A3.51)
- DETAIL CALL OUT (2 / A5.02)
- EXTERIOR ELEVATION (A2.01 / 1)
- INTERIOR ELEVATION (A2.51 / 1)
- PARTITION TYPE (N-02.6.A.S)
- DOOR TAG (130-1)
- ELEVATION TAG (0'-0" LEVEL 1)
- NORTH ARROW
- ROOM NAME AND NUMBER (STORAGE 001)
- REVISION REFERENCE ONLY MOST RECENT REVISION SHOWN CLOUDED (1)
- PROPERTY LINE
- KEYNOTE (1)
- FINISH TYPE (PT 1)
- BREAK LINE
- GRID LINE (A)
- FLOOR TYPE (F01)
- CEILING TYPE (C01 / 8'-0" AFF)

MATERIAL SYMBOLS

- CIP CONCRETE
- PRECAST CONCRETE
- CONCRETE MASONRY UNIT
- BRICK
- STEEL
- ALUMINUM
- GYPSUM WALL BOARD
- LATH AND PLASTER
- GRAVEL
- RIGID INSULATION
- BATT INSULATION
- FIREPROOFING SAND SOLID MORTAR
- FIRESTOPPING
- EARTH
- CONTINUOUS WOOD FRAMING
- WOOD BLOCKING
- PLYWOOD
- PARTICLE BOARD
- SOLID WOOD

ABBREVIATIONS

&	AND
L	ANGLE
@	AT
	CENTERLINE
Ø	DIAMETER OR ROUND
±	PLUS / MINUS
°	DEGREES
#	POUND OR NUMBER
>	GREATER THAN
<	LESS THAN
A	ALIGN
AB	ANCHOR BOLT / ACOUSTICAL BOARD
A/C	AIR CONDITIONING
ACST	ACOUSTICAL
AD	AREA DRAIN
ADDL	ADDITIONAL
ADJ	ADJUSTABLE OR ADJACENT
AFF	ABOVE FINISHED FLOOR
AGGR	AGGREGATE
ALUM	ALUMINUM
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
BD	BOARD
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BO	BOTTOM OF
BOT	BOTTOM
CAB	CABINET
CB	CATCH BASIN
CBB	CEMENT BACKER BOARD
CEM	CEMENT
CER	CERAMIC
CFCI	CONTRACTOR FURNISHED - CONTRACTOR INSTALLED
CIP	CAST IN PLACE
CJ	CONSTRUCTION OR CONTROL JOINT
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
CPT	CARPET
CT	CERAMIC TILE
CTR	CENTER
DBL	DOUBLE
DET	DETAIL
DEMO	DEMOLITION, DEMOLISH
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DR	DOOR
DS	DOWNSPOUT
DWG	DRAWING
EA	EACH
EL	ELEVATION
ELEC	ELECTRICAL
EOS	EDGE OF SLAB
EP	ELECTRICAL PANEL
EQ	EQUAL
EWH	ELECTRIC WATER HEATER
EXIST, (E)	EXISTING
EXT	EXTERIOR
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FDTN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FIN	FINISH
FIN FLR	FINISH FLOOR
FLR	FLOOR
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOS	FACE OF STUD
FP	FIREPROOF
FT	FOOT OR FEET
FTG	FOOTING
G	GROUND
GA	GAGE, GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GL	GLASS
GR	GRADE
GWB	GYPSUM WALL BOARD
GWB-IR	GYPSUM (WALL)BOARD - IMPACT RESISTANT
GWB-WR	GYPSUM (WALL)BOARD - WATER RESISTANT
HB	HOSE BIBB
HC	HOLLOW CORE
HDWD	HARDWOOD
HDWR	HARDWARE
HM	HOLLOW METAL
HOR,	HORIZ HORIZONTAL
HR	HOUR
HT	HEIGHT
HVAC	HEATING, VENTILATING & AIR CONDITIONING
ID	INSIDE DIAMETER
IN	INCHES
INSUL	INSULATION
INT	INTERIOR
JAN	JANITOR
JS	JOINT SEALANT
JT	JOINT
LAM	LAMINATE
LAV	LAVATORY
LINO	LINOLEUM
LT	LIGHT
LV	LOUVER
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MEMB	MEMBRANE
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MTD	MOUNTED
MTL	METAL
MULL	MULLION
(N)	NEW
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NNO	NOT NORMALLY OCCUPIED
NTS	NOT TO SCALE
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED - CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED - OWNER INSTALLED
OPNG	OPENING
OPP	OPPOSITE
P, PTD	PAINT(ED)
PBD	PARTICLEBOARD
PERF	PERFORATED
PL	PROPERTY LINE
PLAM	PLASTIC LAMINATE / PLATE
PLAS	PLASTER
PLYWD	PLYWOOD
PNL	PANEL
PR	PAIR
PT	POINT
PTN	PARTITION
QT	QUARRY TILE
R	RADIUS OR RISER
RR	REST ROOM
RA	RETURN AIR
RB	RESILIENT BASE
RCP	REFLECTED CEILING PLAN(S)
RD	ROOF DRAIN
REF	REFRIGERATOR
REINF	REINFORCED
REQ'D	REQUIRED
RESIL	RESILIENT
RM	ROOM
RO	ROUGH OPENING
RTU	ROOF TOP UNIT
RVS	REVERSED
RWL	RAIN WATER LEADER
SC	SOLID CORE
SCHED	SCHEDULE
SD	STORM DRAIN
SDT	STATIC-DISSIPATIVE TILE
SECT	SECTION
SHR	SHOWER
SHT	SHEET
SIM	SIMILAR
SKLT	SKYLIGHT
SPEC	SPECIFICATION
SS	SOLID-SURFACING
SST	STAINLESS STEEL
ST	STONE
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
TR	TREAD
THK	THICKNESS
THRU	THROUGH
TO	TOP OF
TOC	TOP OF CONCRETE/CURB
TOL	TOLERANCE
TOS	TOP OF STEEL
TOW	TOP OF WALL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
VIF	VERIFY IN FIELD
W/	WITH
WC	WATER CLOSET
WD	WOOD
WDF	WOOD FLOOR
WDP	WOOD PANELING
WH	WATER HEATER
WM	WIRE MESH
W/O	WITHOUT
WP	WATERPROOF
WWF	WELDED WIRE FABRIC

ARCHITECTURAL SHEET INDEX

SHEET NUMBER	SHEET NAME
8.0 Architectural	
A0.01	DRAWING INDEX, SYMBOLS, AND ABBREVIATIONS
AD1.00	DEMO PLAN - BASEMENT - OVERALL
AD1.00B	DEMO PLAN - BASEMENT - SECTOR B
AD1.00C	DEMO PLAN - BASEMENT - SECTOR C
AD1.01	DEMO PLAN - LEVEL 1 - OVERALL
AD1.01B	DEMO PLAN - LEVEL 1 - SECTOR B
AD1.01C	DEMO PLAN - LEVEL 1 - SECTOR C
AD1.02	DEMO PLAN - LEVEL 2 - OVERALL
AD1.02B	DEMO PLAN - LEVEL 2 - SECTOR B
AD1.02C	DEMO PLAN - LEVEL 2 - SECTOR C
AD1.03	DEMO PLAN - LEVEL 3 - OVERALL
AD1.03B	DEMO PLAN - LEVEL 3 - SECTOR B
AD1.04	DEMO PLAN - ROOF - OVERALL
AD1.04B	DEMO PLAN - ROOF - SECTOR B
AD1.04C	DEMO PLAN - ROOF - SECTOR C
AD1.50	DEMO RCP - BASEMENT - OVERALL
AD1.50B	DEMO RCP - BASEMENT - SECTOR B
AD1.50C	DEMO RCP - BASEMENT - SECTOR C
AD1.51	DEMO RCP - LEVEL 1 - OVERALL
AD1.51B	DEMO RCP - LEVEL 1 - SECTOR B
AD1.51C	DEMO RCP - LEVEL 1 - SECTOR C
AD1.52	DEMO RCP - LEVEL 2 - OVERALL
AD1.52B	DEMO RCP - LEVEL 2 - SECTOR B
AD1.52C	DEMO RCP - LEVEL 2 - SECTOR C
AD1.53	DEMO RCP - LEVEL 3 - OVERALL
AD1.53B	DEMO RCP - LEVEL 3 - SECTOR B
AD2.02	DEMO ELEVATIONS - EXTERIOR
AD2.03	DEMO ELEVATIONS - EXTERIOR
AD2.51	DEMO ELEVATIONS -INTERIOR
AD3.01	DEMO SECTIONS
AS1.00B	SLAB PLAN - BASEMENT - SECTOR B
AS1.00C	SLAB PLAN - BASEMENT - SECTOR C
AS1.01B	SLAB PLAN - LEVEL 1 - SECTOR B
AS1.01C	SLAB PLAN - LEVEL 1 - SECTOR C
AS1.02B	SLAB PLAN - LEVEL 2 - SECTOR B
AS1.02C	SLAB PLAN - LEVEL 2 - SECTOR C
A4.10	VERTICAL CIRCULATION - STAIRS
A4.11	VERTICAL CIRCULATION - STAIRS
A4.12	VERTICAL CIRCULATION - STAIRS
A4.15	GUARDRAILS
A5.50	STAIR AND GUARDRAIL DETAILS
A5.51	STAIR AND GUARDRAIL DETAILS
Grand total: 42	

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Date 02/23/24

Project No. 221000

Revisions

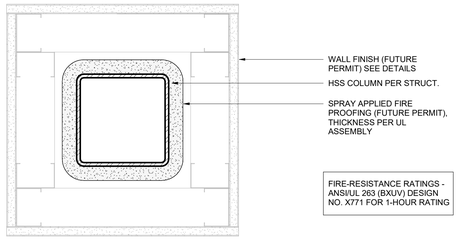
NO.	DESCRIPTION	DATE

DRAWING INDEX, SYMBOLS, AND ABBREVIATIONS

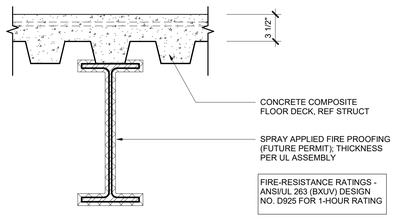
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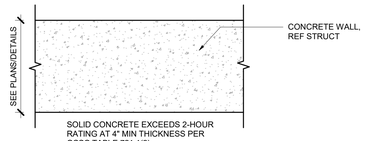
RATED STRUCTURAL ASSEMBLIES



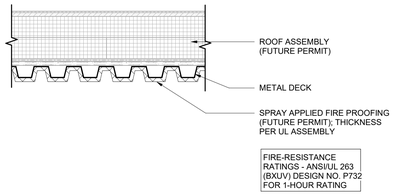
3 FIRE PROOFING - HSS COLUMN - TYPICAL
3" = 1'-0"



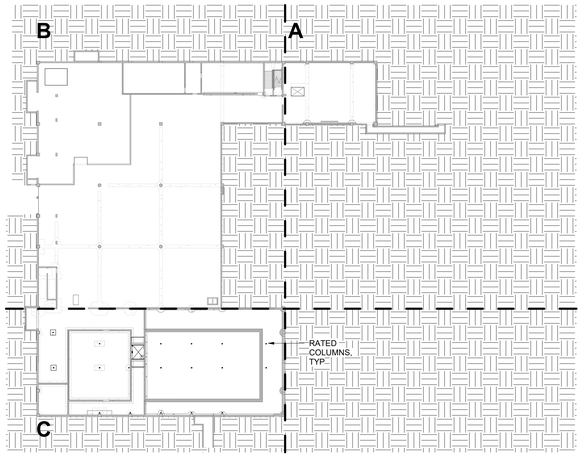
2 FIRE PROOFING - CONCRETE COMPOSITE DECK
1 1/2" = 1'-0"



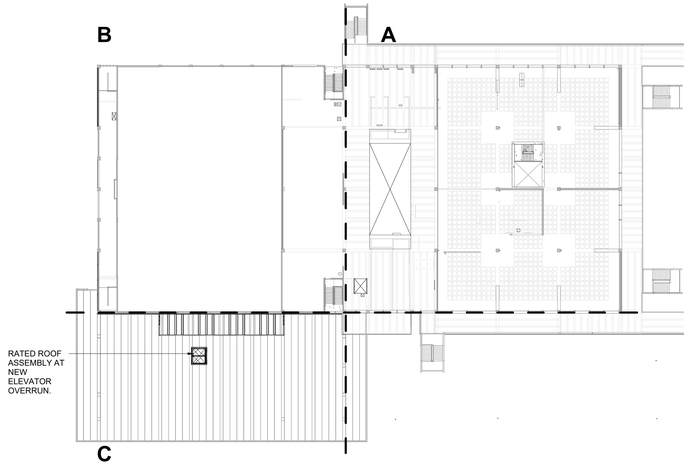
1 TYPE C1 - CAST IN PLACE CONCRETE WALL
3" = 1'-0"



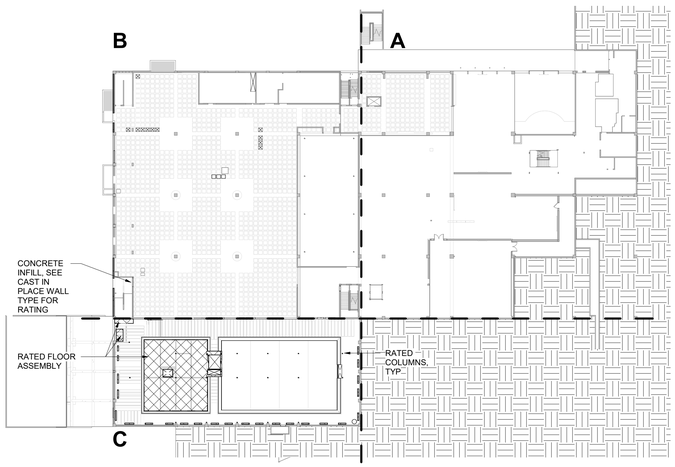
9 FIRE PROOFING - ROOFING OVER STEEL DECK
1 1/2" = 1'-0"



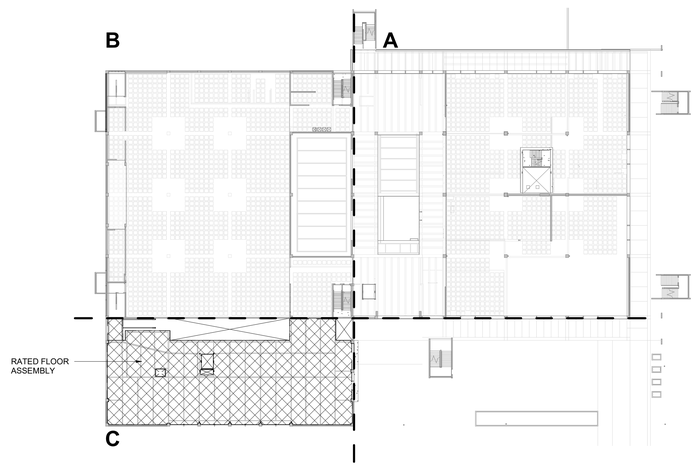
4 STRUCTURAL FIRE RESISTANCE PLAN - BASEMENT
1" = 40'-0"



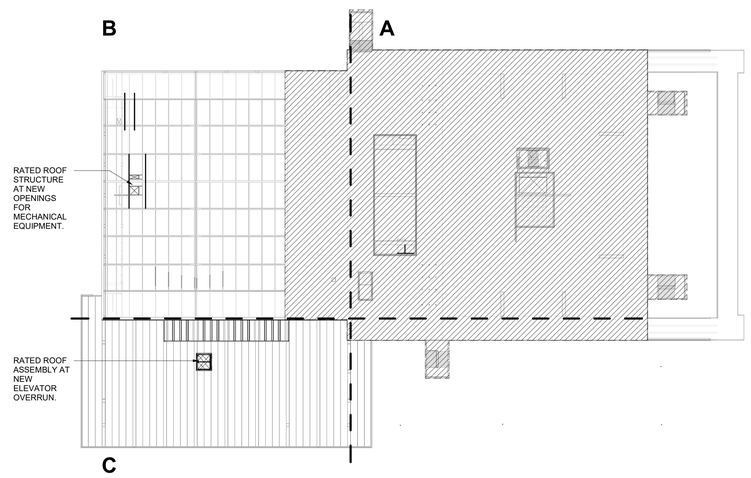
7 STRUCTURAL FIRE RESISTANCE PLAN - LEVEL 3
1" = 40'-0"



5 STRUCTURAL FIRE RESISTANCE PLAN - LEVEL 1
1" = 40'-0"



6 STRUCTURAL FIRE RESISTANCE PLAN - LEVEL 2
1" = 40'-0"



8 STRUCTURAL FIRE RESISTANCE PLAN - ROOF
1" = 40'-0"

FIRE-RESISTANCE RATING LEGEND

SLAB OPENING

1-HR FIREPROOFING AT NEW STRUCTURE- SEE FIRE RATED ASSEMBLIES. PROVIDE AT ALL STEEL FRAMING MEMBERS WITH SHADED AREA UNLESS NOTED OTHERWISE)

FIRE-RESISTANCE STRUCTURE NOTES

1. REFER TO SHEET A0.01 FOR GENERAL USE SYMBOLS, MATERIALS, AND ABBREVIATIONS.
2. PLANS SHOW FIRE-RESISTANCE OF NEW STRUCTURE, NEW FLOOR ASSEMBLIES, AND NEW ROOF ASSEMBLIES.
3. PLANS SHOW FLOOR/ROOF LEVEL INDICATED (TRANSPARENT), FLOOR/ROOF STRUCTURE BELOW, AND COLUMNS AND STRUCTURAL WALLS.
4. CONTRACTOR IS TO PROVIDE COORDINATED DRAWINGS FOR ALL SLAB PENETRATIONS.
5. REFER TO CODE SUMMARY FOR ADDITIONAL RATING INFORMATION.

City of Portland
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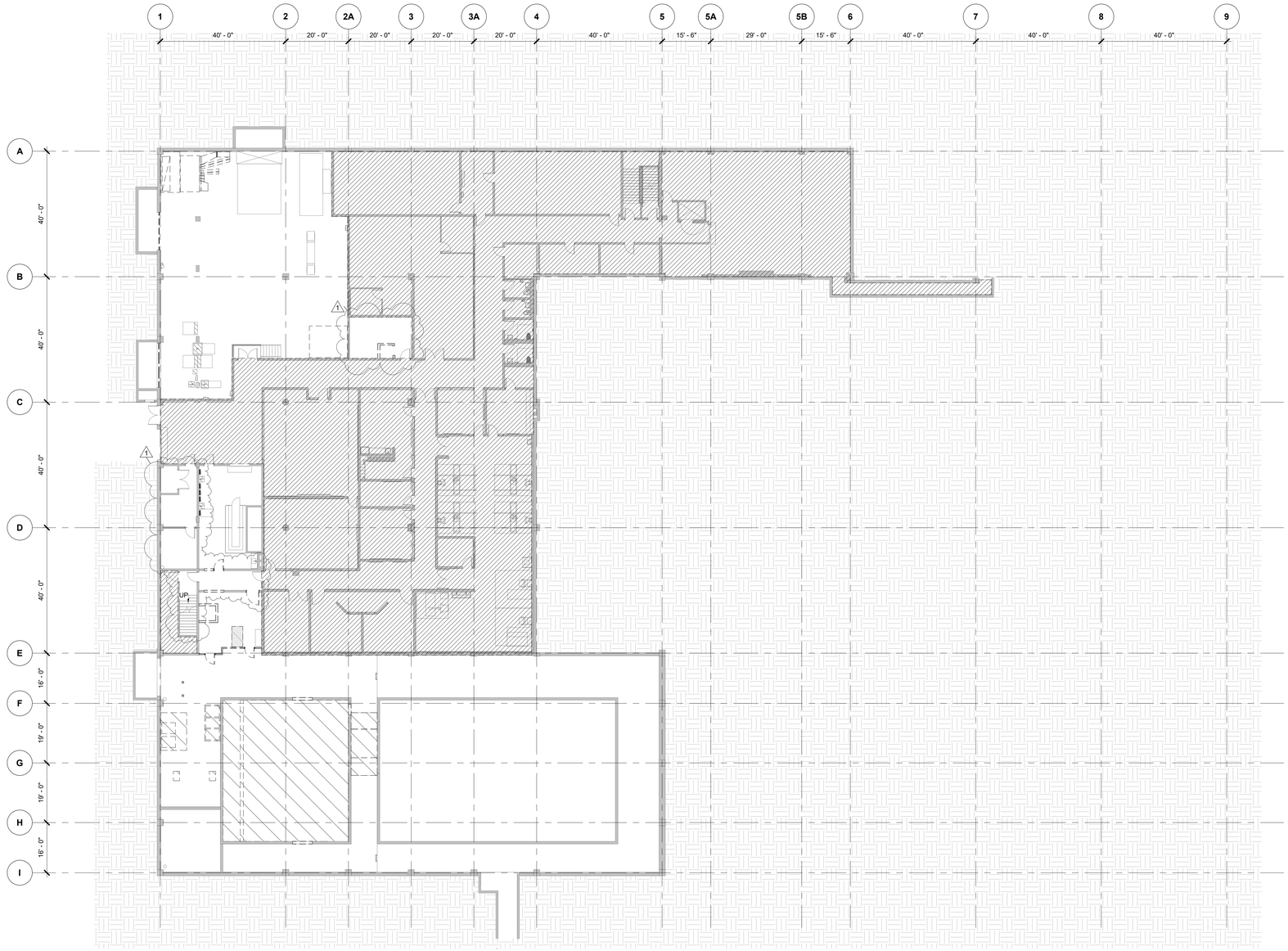
Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24

STRUCTURAL FIRE PROOFING ASSEMBLIES AND PLANS

A0.40

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1 DEMO - BASEMENT - OVERALL
1/16" = 1'-0"

0 4 8 16'

DEMOLITION NOTES

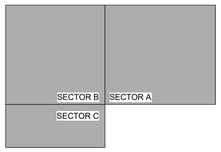
1. THE PURPOSE OF THE DEMOLITION DRAWINGS ARE TO OUTLINE A GENERAL DIRECTION OF WHAT NEEDS TO BE REMOVED TO ACCOMPLISH THE WORK. WORK SHOWN IS DIAGRAMMATIC IN NATURE AND NOT INTENDED TO BE ALL INCLUSIVE. CONTRACTOR TO VERIFY EXISTING CONDITIONS BEFORE BIDDING AND INCLUDE ALL WORK EVIDENT BY SITE INSPECTION, WHETHER OR NOT SHOWN ON DRAWINGS, TO ACHIEVE DESIRED RESULTS INDICATED ON DOCUMENTS FOR COMPLETE WORK.
2. COORDINATE PHASING OF DEMOLITION WORK WITH OWNER PRIOR TO COMMENCING.
3. COORDINATE PHASING OF DEMOLITION OF STRUCTURAL ELEMENTS WITH STRUCTURAL DRAWINGS AND STRUCTURAL EOR PRIOR TO STARTING WORK.
4. NOTIFY ARCHITECT IN ADVANCE OF CUTTING OR ALTERATION WHICH MAY EFFECT THE STRUCTURAL STABILITY OF ANY PORTION OF EXISTING SYSTEMS AND STRUCTURES.
5. USE DUE CARE TO MINIMIZE DAMAGE TO EXISTING WORK WHICH IS TO REMAIN. REPLACE, REPAIR, PATCH AND REPAINT AS REQUIRED.
6. PROTECT INTERIOR OF EXISTING BUILDING FROM CONSTRUCTION DUST, NOISE, AND WEATHER.
7. COORDINATE WITH OWNER AND SCHEDULE IN ADVANCE OF ANY INTERRUPTIONS OF ELECTRICAL, MECHANICAL, FIRE PROTECTION, PLUMBING, COMMUNICATION AND OTHER SERVICES, WHICH MAY AFFECT FACILITY OPERATIONS OR OTHER ADJACENT SPACES NEARBY.
8. REMOVE OR CAP CONDUIT AND PIPING FROM ABANDONED UTILITIES.
9. COORDINATE THE SALVAGE OF EQUIPMENT AND FIXTURES WITH OWNER PRIOR TO REMOVAL.
10. FIELD VERIFY ALL GIVEN DIMENSIONS.
11. IF ASBESTOS OR OTHER HAZARDOUS MATERIALS ARE OBSERVED OR SUSPECTED, IMMEDIATELY STOP WORK IN THAT AREA AND PROMPTLY NOTIFY THE OWNER/ARCHITECT. HAZARDOUS MATERIALS ARE TO BE ENCAPSULATED OR SAFELY REMOVED AND DISPOSED OF PER THE AUTHORITIES HAVING JURISDICTION.
12. REFER TO OTHER CONSULTANTS DOCUMENTS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
13. EXISTING POOLS TO BE FULLY DECOMMISSIONED. ALL EQUIPMENT ASSOCIATED WITH POOL TO BE FULLY DECOMMISSIONED AND REMOVED FROM SITE. ALL PIPING ASSOCIATED WITH POOL TO BE CUT AND CAPPED AND ALL ABOVE SLAB PIPING TO BE REMOVED UNLESS OTHERWISE INDICATED. ALL DRAINS TO BE CAPPED TO PREVENT ANY INFILTRATION INTO DRAIN PIPE. DISPOSE OF ALL MATERIAL AS REQUIRED BY AHJ.
14. REMOVE INTERIOR NON-LOAD BEARING WALL PARTITIONS AS INDICATED. EXISTING WALL PARTITIONS INCLUDE BUT ARE NOT LIMITED TO: CONCRETE BLOCK, MASONRY, STUD FRAMING, GYPSUMBOARD AND PLASTER FINISHES, TRIM, SIGNAGE, AND ALL FASTNER ANCHORS. REMOVE EXISTING WALL IN ITS ENTIRETY, INCLUDING, BUT NOT LIMITED TO DOORS, FRAMES, ELECTRICAL DEVICES, CONDUITS, RELITES, PLUMBING, SUPPLY GRILLES, ETC. TO EXTENT SHOWN ON PLANS.
15. REMOVE EXISTING FLOOR FINISHES AS INDICATED. EXISTING FLOOR FINISHES INCLUDE, BUT ARE NOT LIMITED TO, VCT, CARPET, TILE, EPOXY, AND ASSOCIATED ADHESIVES AND MORTARS.
16. REMOVE NON-LOAD BEARING CEILING ASSEMBLIES AS INDICATED. EXISTING CEILING ASSEMBLIES INCLUDE, BUT ARE NOT LIMITED TO, GYPBOARD, ACOUSTICAL PANELS, ACOUSTICAL CELING ASSEMBLIES, FRAMING, HANGERS, AND CONNECTION ANCHORS TO EXISTING STRUCTURE.
17. REMOVE INTERIOR AND EXTERIOR DOORS, FRAMES, THRESHOLDS, RELITE WINDOW FRAMES AND GLAZING AS INDICATED INLCUDING ALL FASTENERS.
18. REMOVE AND SALVAGE ALL DOOR HARDWARE FROM DOORS AND FRAMES INDICATED TO BE REMOVED. COORDINATE WITH OWNER.
19. SALVAGE ALL EXISTING IT/AV EQUIPMENT. CONTRACTOR TO COORDINATE WITH OWNER ON ITEMS THAT WILL BE REMOVED BY OWNER AND IT/AV ITEMS TO BE SALVAGED BY CONTRACTOR.
20. SALVAGE ALL REMOVED HVAC CONTROL DEVICES INCLUDING EXISTING BTU METERS, VFDs, DISCONNECTS AND HVAC CONTROLS. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION AND COORDINATE ITEMS TO BE SALVAGED WITH OWNER.

DEMOLITION PLAN LEGEND

- EXISTING TO REMAIN
- EXISTING TO BE DEMOLISHED
- EXISTING TO BE DEMOLISHED - SEE KEYNOTE FOR MORE INFORMATION
- NOT IN ARCHITECTURE SCOPE
- REMOVE CARPET
- REMOVE RESILIENT FLOORING
- REMOVE VINYL FLOOR TILE
- REMOVE FLOOR TILE
- REMOVE SUSPENDED CEILING
- REMOVE GYPSUM CEILING

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KEY PLAN



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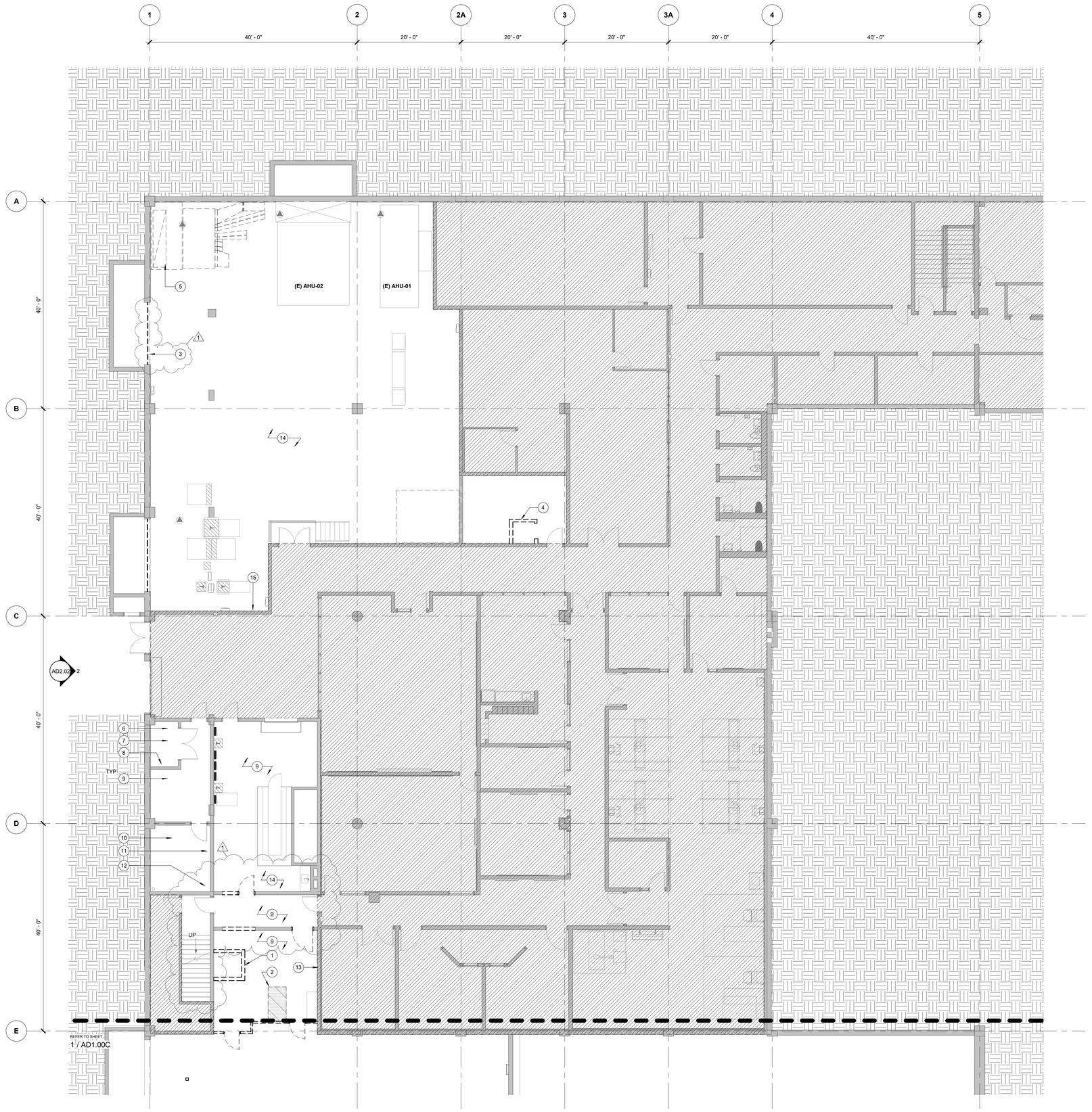
Revisions

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DEMO PLAN - BASEMENT - OVERALL

AD1.00

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1 DEMO - BASEMENT - SECTOR B
1/8" = 1'-0"

0 4 8 16'

DEMOLITION NOTES

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8. REMOVE OR CAP CONDUIT AND PIPING FROM ABANDONED UTILITIES.
9. COORDINATE THE SALVAGE OF EQUIPMENT AND FIXTURES WITH OWNER PRIOR TO REMOVAL.
10. FIELD VERIFY ALL GIVEN DIMENSIONS.
11. IF ASBESTOS OR OTHER HAZARDOUS MATERIALS ARE OBSERVED OR SUSPECTED, IMMEDIATELY STOP WORK IN THAT AREA AND PROMPTLY NOTIFY THE OWNER/ARCHITECT. HAZARDOUS MATERIALS ARE TO BE ENCAPSULATED OR SAFELY REMOVED AND DISPOSED OF PER THE AUTHORITIES HAVING JURISDICTION.
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14. REMOVE INTERIOR NON-LOAD BEARING WALL PARTITIONS AS INDICATED. EXISTING WALL PARTITIONS INCLUDE BUT ARE NOT LIMITED TO: CONCRETE BLOCK, MASONRY, STUD FRAMING, GYPSUM/BOARD AND PLASTER FINISHES, TRIM, SIGNAGE, AND ALL FASTNER ANCHORS. REMOVE EXISTING WALL IN ITS ENTIRETY, INCLUDING, BUT NOT LIMITED TO DOORS, FRAMES, ELECTRICAL DEVICES, CONDUITS, RELITES, PLUMBING, SUPPLY GRILLES, ETC. TO EXTENT SHOWN ON PLANS.
15. REMOVE EXISTING FLOOR FINISHES AS INDICATED. EXISTING FLOOR FINISHES INCLUDE, BUT ARE NOT LIMITED TO, VCT, CARPET, TILE, EPOXY, AND ASSOCIATED ADHESIVES AND MORTARS.
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DEMOLITION PLAN LEGEND

- EXISTING TO REMAIN
- EXISTING TO BE DEMOLISHED
- EXISTING TO BE DEMOLISHED - SEE KEYNOTE FOR MORE INFORMATION
- NOT IN ARCHITECTURE SCOPE
- REMOVE CARPET
- REMOVE RESILIENT FLOORING
- REMOVE VINYL FLOOR TILE
- REMOVE FLOOR TILE
- REMOVE SUSPENDED CEILING
- REMOVE GYPSUM CEILING

KEYNOTES - AD1.00B

1 REMOVE CMU BACKWASH TANK IN ITS ENTIRETY. CUT AND CAP DRAINS TO PREVENT ANY INFILTRATION.

2 REMOVE FLOOR GRATING AND DECOMMISSION SUMP. CUT AND CAP DRAINS TO PREVENT ANY INFILTRATION.

3 REMOVE DAMPERS AND BIRD SCREEN, SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.

4 REMOVE LAUNDRY DUMBWAITER, ASSOCIATED WALLS AND EQUIPMENT.

5 REMOVE MECHANICAL EQUIPMENT; SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.

6 REMOVE ACID RECOVERY TANK ALL ASSOCIATED COMPONENTS.

7 REMOVE ACID TANK ALL ASSOCIATED COMPONENTS.

8 REMOVE ACID PUMPS AND ALL ASSOCIATED COMPONENTS.

9 REMOVE ALL PIPING AND VALVES ASSOCIATED WITH LAP POOL AND DIVE WELL.

10 REMOVE CO2 SYSTEM AND ALL ASSOCIATED COMPONENTS.

11 REMOVE CHEMICAL CONTROL MONITORS AND ALL ASSOCIATED EQUIPMENT.

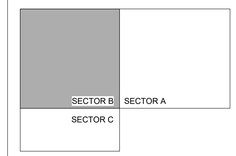
12 REMOVE UV SYSTEM, ALL ASSOCIATED EQUIPMENT, AND ASSOCIATED CONCRETE PADS.

13 REMOVE HEAT EXCHANGERS AND ALL ASSOCIATED EQUIPMENT.

14 REMOVE DHW STORAGE TANK AND DHW HEATERS, SEE HAZARDOUS MATERIALS SURVEY AND PLUMBING DRAWINGS FOR MORE INFORMATION.

15 SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.

KEY PLAN



w+b
woofter bolch architecture
107 SE Washington Street, Suite 228
Portland, OR 97214
503 724 0111

REGISTERED ARCHITECT
Miles E. Woofter
PORTLAND, OR
4872
STATE OF OREGON

City of Portland
Reviewed for Code Compliance
Date: 8/21/2024
Permit #: 24-020319-STR-01-CO

Portland Community College
12000 SW 49th Ave.
Portland, Oregon
97219

PCC SY-HT Building West Side Renovation
12000 SW 49th Ave.
Portland, Oregon 97219

Date	02/23/24
Project No.	221000

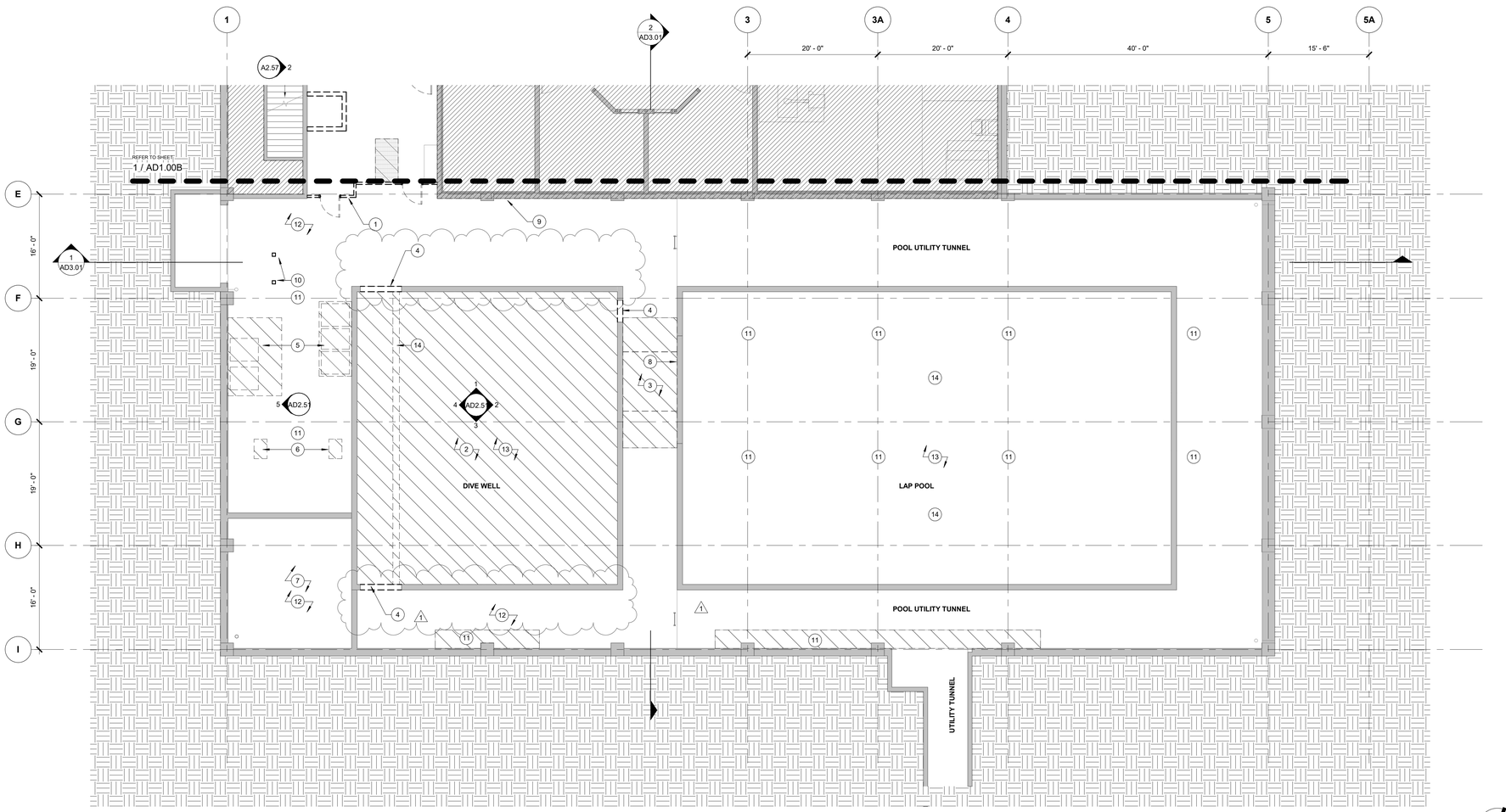
Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24

DEMO PLAN - BASEMENT - SECTOR B

AD1.00B

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1 DEMO - BASEMENT - SECTOR C
1/8" = 1'-0"

0 4 8 16'

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- REMOVE CARPET
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- REMOVE GYPSUM CEILING

KEYNOTES - AD1.00C

1 REMOVE METAL CLAD WALL IN ITS ENTIRETY

2 REMOVE CONCRETE SLAB AT BOTTOM OF DIVEWELL IN ITS ENTIRETY. REMOVE EXISTING POOL MAIN DRAIN. MAIN DRAIN TO BE CAPPED TO PREVENT ANY INFILTRATION INTO DRAIN PIPE. SEE PLUMBING DRAWINGS FOR MORE INFORMATION.

3 REMOVE PORTION OF SLAB ON GRADE AND ADJACENT FOOTINGS TO ALLOW FOR ELEVATOR PIT, REF A4.20 AND STRUCTURAL.

4 REMOVE PORTION OF WALL CONCRETE WALL TO ALLOW FOR NEW OPENING.

5 REMOVE POOL FILTER SYSTEM , ALL ASSOCIATED COMPONENTS, AND HOUSEKEEPING PADS.

6 REMOVE POOL PUMPS , ALL ASSOCIATED DRIVES AND COMPONENTS, AND HOUSEKEEPING PADS.

7 DECOMISSION SURGE TANK AND REMOVE ALL ASSOCIATED COMPONENTS.

8 REMOVE DRAIN LINES IN CONFLICT WITH FUTURE ELEVATOR. SEE PLUMBING DRAWINGS FOR MORE INFORMATION.

9 REMOVE HVAC CONTROL DEVICES. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.

10 REMOVE STEEL COLUMNS, SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION.

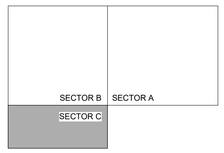
11 REMOVE CONCRETE SLAB AS REQUIRED TO INSTALL NEW COLUMNS AND FOUNDATIONS, SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION.

12 REMOVE ALL PIPING AND VALVES ASSOCIATED WITH LAP POOL AND DIVE WELL.

13 EXISTING POOL TO BE FULLY DECOMMISSIONED. ALL EQUIPMENT ASSOCIATED WITH POOL TO BE FULLY DOCOMMISSIONED AND REMOVED FROM SITE UNLESS OTHERWISE NOTED. ALL PIPING ASSOCIATED WITH POOL TO BE CUT AND CAPPED AND ALL ABANDONED ABOVE SLAB PIPING TO BE REMOVED UNLESS OTHERWISE NOTED. SEE PLUMBING DRAWINGS FOR MORE INFORMATION.

14 EXISTING POOL DRAIN TO BE CAPPED TO PREVENT ANY INFILTRATION INTO DRAINPIPE.

KEY PLAN



City of Portland
Reviewed for Code Compliance
Date: 8/21/2024
Permit #: 24-020319-STR-01-CO

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REGISTERED ARCHITECT
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Date	07/10/24
Project No.	221000

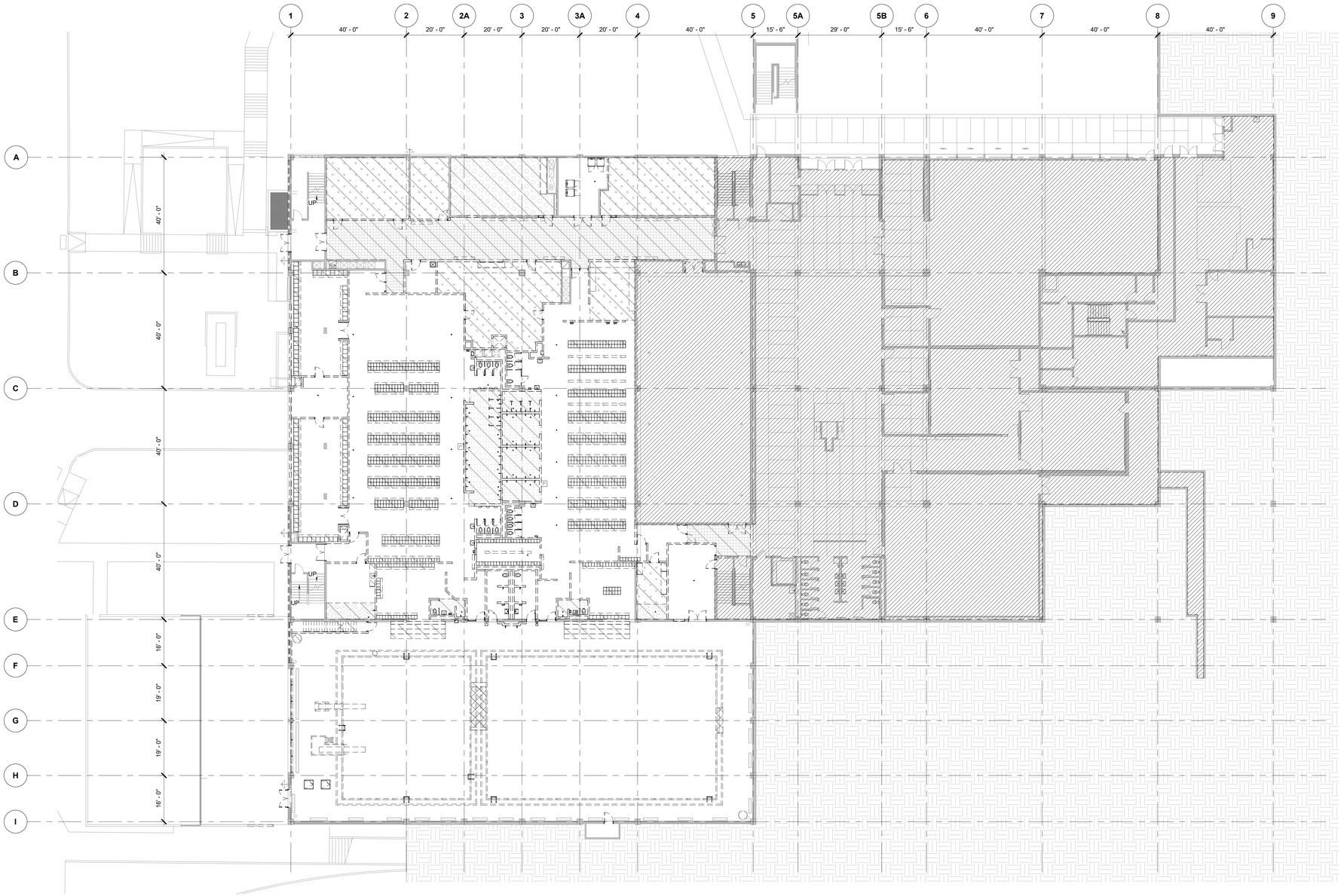
Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24
2	Revision 4	08-13-24

DEMO PLAN - BASEMENT - SECTOR C

AD1.00C

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1 DEMO - LEVEL 1 - OVERALL
1/16" = 1'-0"

0 4 8 16'

DEMOLITION NOTES

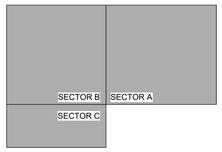
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KEY PLAN



woofter bolch architecture
107 SE Washington Street, Suite 228
Portland, OR 97214
503 7243111

REGISTERED ARCHITECT
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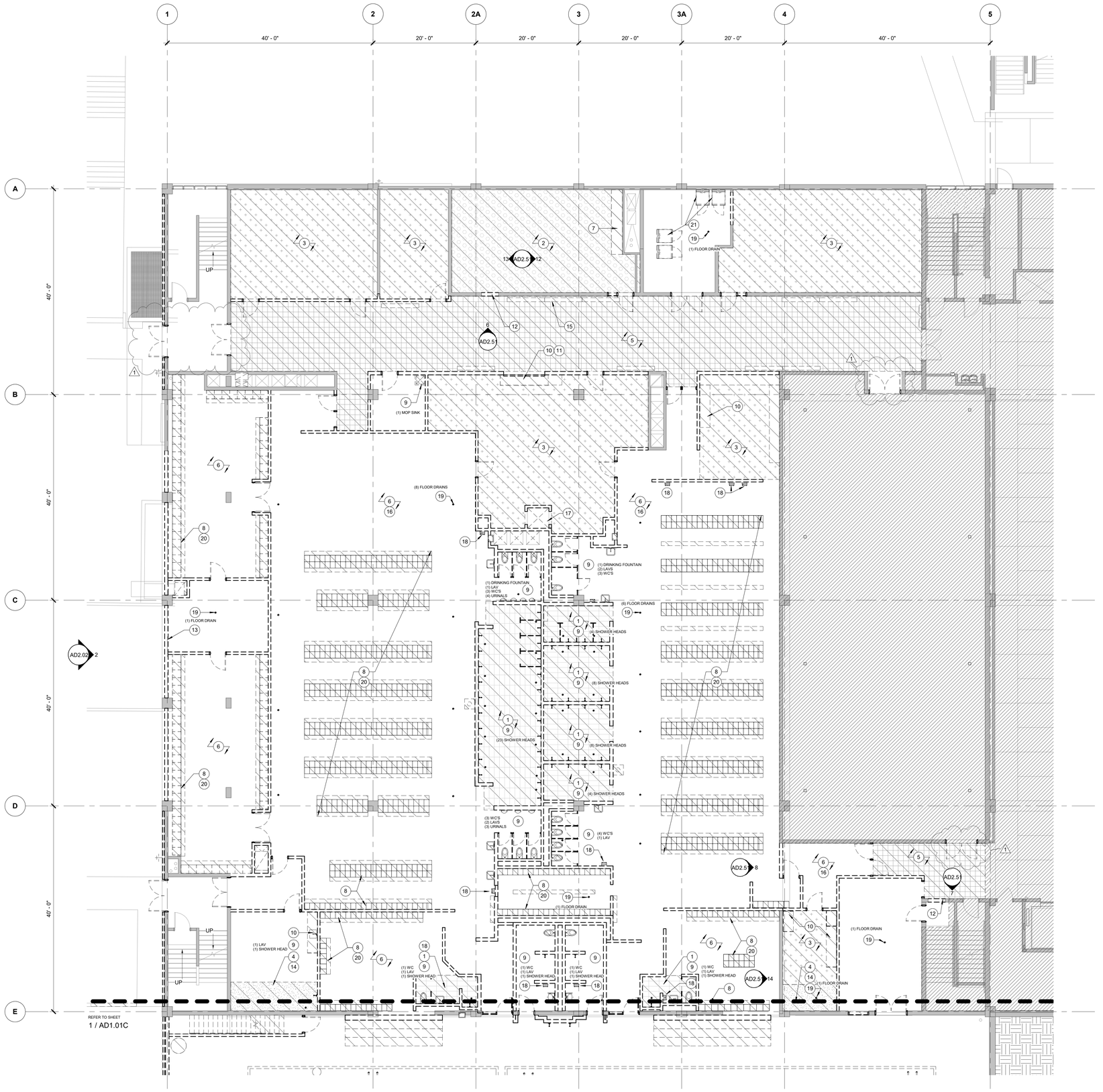
Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24

DEMO PLAN - LEVEL 1 - OVERALL

AD1.01

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1 DEMO - LEVEL 1 - SECTOR B
1/8" = 1'-0"

0 4 8 16'

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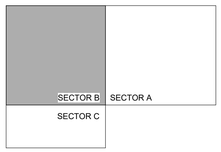
DEMOLITION PLAN LEGEND

- EXISTING TO REMAIN
- EXISTING TO BE DEMOLISHED
- EXISTING TO BE DEMOLISHED - SEE KEYNOTE FOR MORE INFORMATION
- NOT IN ARCHITECTURE SCOPE
- REMOVE CARPET
- REMOVE RESILIENT FLOORING
- REMOVE VINYL FLOOR TILE
- REMOVE FLOOR TILE
- REMOVE SUSPENDED CEILING
- REMOVE GYPSUM CEILING

KEYNOTES - AD1.01B

1 REMOVE TILE FLOORING
2 REMOVE RUBBER ATHLETIC FLOORING AND PREPARE SLAB TO RECEIVE NEW FLOOR FINISH.
3 REMOVE CARPET FLOORING AND PREPARE SLAB TO RECEIVE NEW FLOOR FINISH.
4 REMOVE BUILT UP EXPOXY FLOOR AND PREAPRE CONCRETE SLAB TO RECEIVE NEW FINISH.
5 REMOVE VINYL FLOOR TILE AND PREPARE SLAB TO RECEIVE NEW FLOOR FINISH.
6 REMOVE EPOXY FLOOR FINISH AND PREPARE SLAB TO RECEIVE NEW FLOOR FINISH.
7 REMOVE RAISED FLOOR
8 REMOVE LOCKERS AND CMU BASE.
9 REMOVE PLUMBING FIXTURES
10 REMOVE CASEWORK
11 REMOVE OVERHEAD COILING DOOR
12 REMOVE PORTION OF WALL TO ALLOW FOR NEW OPENING, REF STRUCTURAL.
13 REFERENCE AD2.02 AND AD2.03 FOR DEMOLITION AT EXTERIOR WALLS, TYP.
14 REMOVE WALL TILE AND PREPARE SURFACE TO RECEIVE NEW FINISH
15 REMOVE HALLWAY BENCH AND SALVAGE WOOD TOP, TYP.
16 REMOVE TILE WALL BASE.
17 REMOVE LAUNDRY DUMBWAITER, ASSOCIATED WALLS AND EQUIPMENT.
18 REMOVE AND SALVAGE HANDRYER
19 REMOVE FLOOR DRAIN AND ASSOCIATED VERTICAL PIPING, TYP.
20 REMOVE AND SALVAGE WOOD BENCHES, TYP.
21 REMOVE EXISTING WASHERS (2), DRYERS (2), AND EYEWASH STATION.

KEY PLAN



w+b
woofter bolch architecture
107 SE Washington Street, Suite 228
Portland, OR 97214
503 724 0111

REGISTERED ARCHITECT
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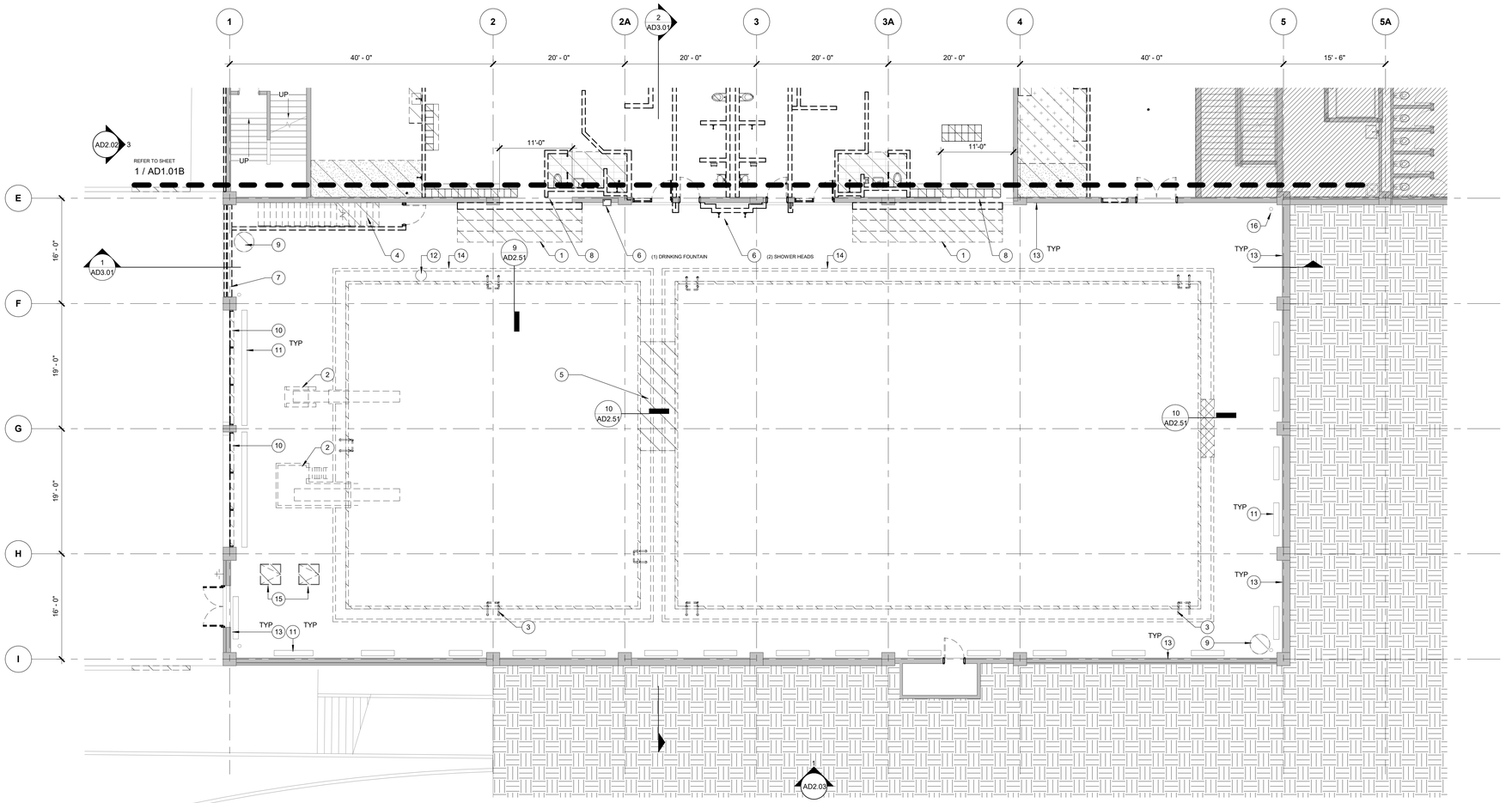
Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24

DEMO PLAN - LEVEL 1 - SECTOR B

AD1.01B

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1 DEMO - LEVEL 1 - SECTOR C
1/8" = 1'-0"

0 4 8 16'

DEMOLITION NOTES

1. THE PURPOSE OF THE DEMOLITION DRAWINGS ARE TO OUTLINE A GENERAL DIRECTION OF WHAT NEEDS TO BE REMOVED TO ACCOMPLISH THE WORK. WORK SHOWN IS DIAGRAMMATIC IN NATURE AND NOT INTENDED TO BE ALL INCLUSIVE. CONTRACTOR TO VERIFY EXISTING CONDITIONS BEFORE BIDDING AND INCLUDE ALL WORK EVIDENT BY SITE INSPECTION, WHETHER OR NOT SHOWN ON DRAWINGS, TO ACHIEVE DESIRED RESULTS INDICATED ON DOCUMENTS FOR COMPLETE WORK.
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3. COORDINATE PHASING OF DEMOLITION OF STRUCTURAL ELEMENTS WITH STRUCTURAL DRAWINGS AND STRUCTURAL EOR PRIOR TO STARTING WORK.
4. NOTIFY ARCHITECT IN ADVANCE OF CUTTING OR ALTERATION WHICH MAY EFFECT THE STRUCTURAL STABILITY OF ANY PORTION OF EXISTING SYSTEMS AND STRUCTURES.
5. USE DUE CARE TO MINIMIZE DAMAGE TO EXISTING WORK WHICH IS TO REMAIN. REPLACE, REPAIR, PATCH AND REPAINT AS REQUIRED.
6. PROTECT INTERIOR OF EXISTING BUILDING FROM CONSTRUCTION DUST, NOISE, AND WEATHER.
7. COORDINATE WITH OWNER AND SCHEDULE IN ADVANCE OF ANY INTERRUPTIONS OF ELECTRICAL, MECHANICAL, FIRE PROTECTION, PLUMBING, COMMUNICATION AND OTHER SERVICES, WHICH MAY AFFECT FACILITY OPERATIONS OR OTHER ADJACENT SPACES NEARBY.
8. REMOVE OR CAP CONDUIT AND PIPING FROM ABANDONED UTILITIES.
9. COORDINATE THE SALVAGE OF EQUIPMENT AND FIXTURES WITH OWNER PRIOR TO REMOVAL.
10. FIELD VERIFY ALL GIVEN DIMENSIONS.
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17. REMOVE INTERIOR AND EXTERIOR DOORS, FRAMES, THRESHOLDS, RELITE WINDOW FRAMES AND GLAZING AS INDICATED INLCUDING ALL FASTENERS.
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- REMOVE FLOOR TILE
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- REMOVE GYPSUM CEILING

KEYNOTES - AD1.01C

1 REMOVE CONCRETE BLEACHERS
2 REMOVE CONCRETE PEDESTAL AND DIVING BOARD
3 REMOVE POOL LADDERS, TYP.
4 REMOVE CONCRETE STAIRS AND HANDRAILS IN THEIR ENTIRETY
5 REMOVE PORTION OF POOL DECK AS SHOWN TO ALLOW FOR NEW ELEVATOR (FUTURE PERMIT).
6 REMOVE PLUMBING FIXTURES
7 REFERENCE AD2.02 AND AD2.03 FOR DEMOLITION AT EXTERIOR WALLS, TYP.
8 REMOVE A PORTION OF CONCRETE WALL, SEE AD3.01 AND REF STRUCTURAL
9 REMOVE DUCTWORK AND CONCRETE CURB
10 REMOVE OPERABLE WINDOW WALL AND ALL ASSOCIATED MOTORS AND EQUIPMENT.
11 REMOVE IN SLAB GRILLES. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.
12 REMOVE ADA POOL LIFT AND ALL ASSOCIATED STRUCTURE AND ELECTRICAL INFRASTRUCTURE.
13 REMOVE ACOUSTICAL WALL PANELS.
14 REMOVE CONTINUOUS GUTTER DRAIN.
15 REMOVE SURGE TANK ACCESS HATCH DOORS.
16 SEE HAZARDOUS MATERIALS SURVEY FOR ADDITIONAL INFORMATION ABOUT DOWNSPOUT INSULATION, TYP.

KEY PLAN

SECTOR B | SECTOR A
SECTOR C

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503 724 0111

REGISTERED ARCHITECT
Miles E. Woofter
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STATE OF OREGON

City of Portland
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Date	02/23/24
Project No.	221000

Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24

DEMO PLAN - LEVEL 1 - SECTOR C

AD1.01C

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1 DEMO - LEVEL 2 - OVERALL
1/16" = 1'-0"

0 4 8 16'

DEMOLITION NOTES

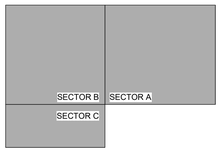
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City of Portland
Reviewed for Code Compliance
Date: 8/21/2024
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KEY PLAN



w+b
woofter bolch architecture
107 SE Washington Street, Suite 228
Portland, OR 97214
503 7243111

REGISTERED ARCHITECT
Miles E. Woofter
PORTLAND, OR
4872
STATE OF OREGON

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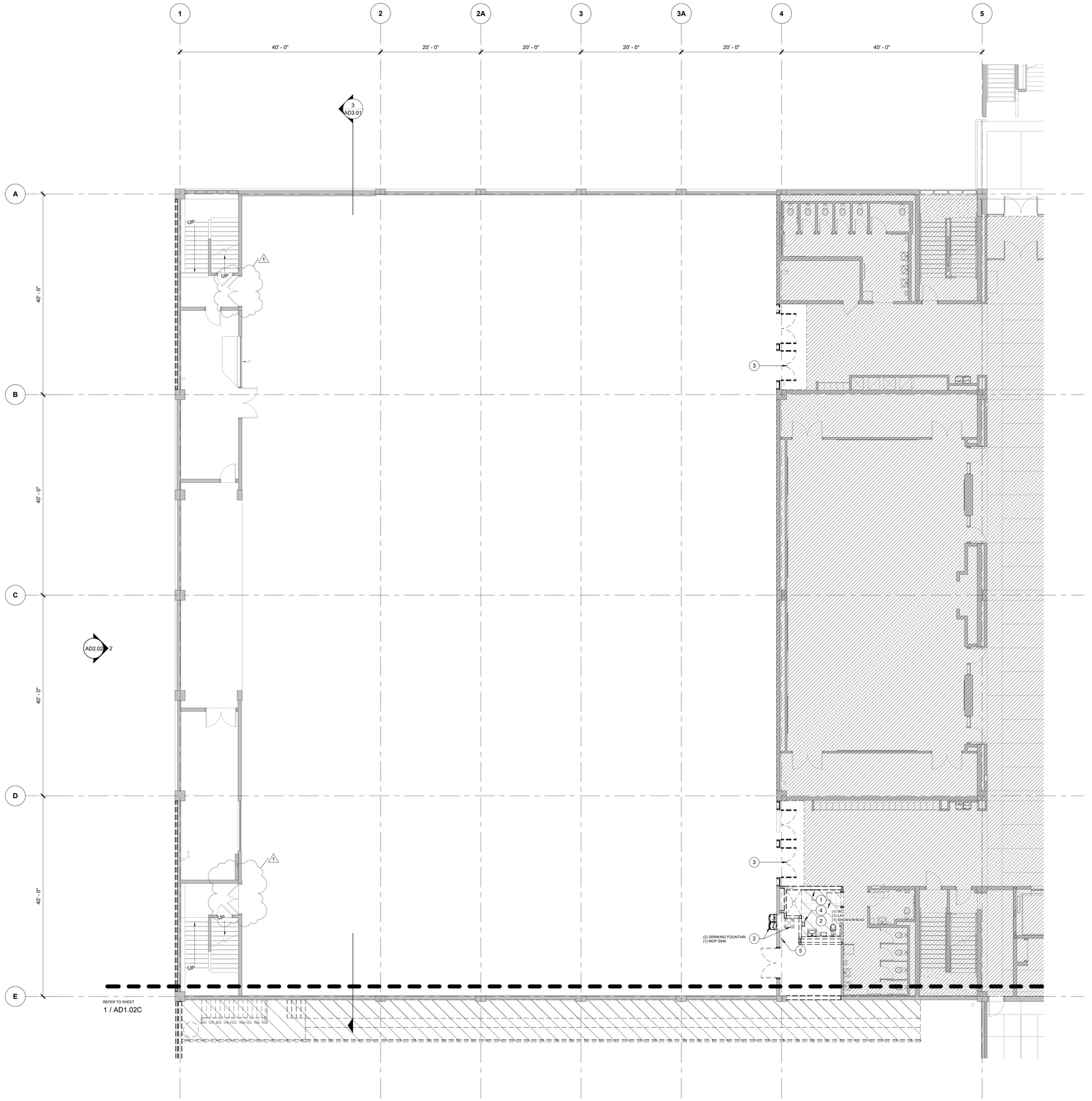
Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24

DEMO PLAN - LEVEL 2 - OVERALL

AD1.02

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1 DEMO - LEVEL 2 - SECTOR B
1/8" = 1'-0"

0 4 8 16'

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KEYNOTES - AD1.02B

1 REMOVE TILE FLOORING

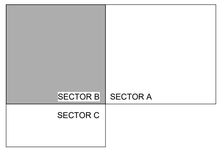
2 REMOVE PLUMBING FIXTURES

3 REMOVE DOORS AND FRAMES IN THEIR ENTIRETY

4 REMOVE AND SALVAGE HANDRYER

5 RELOCATE GYMNASIUM FAN CONTROLS. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.

KEY PLAN



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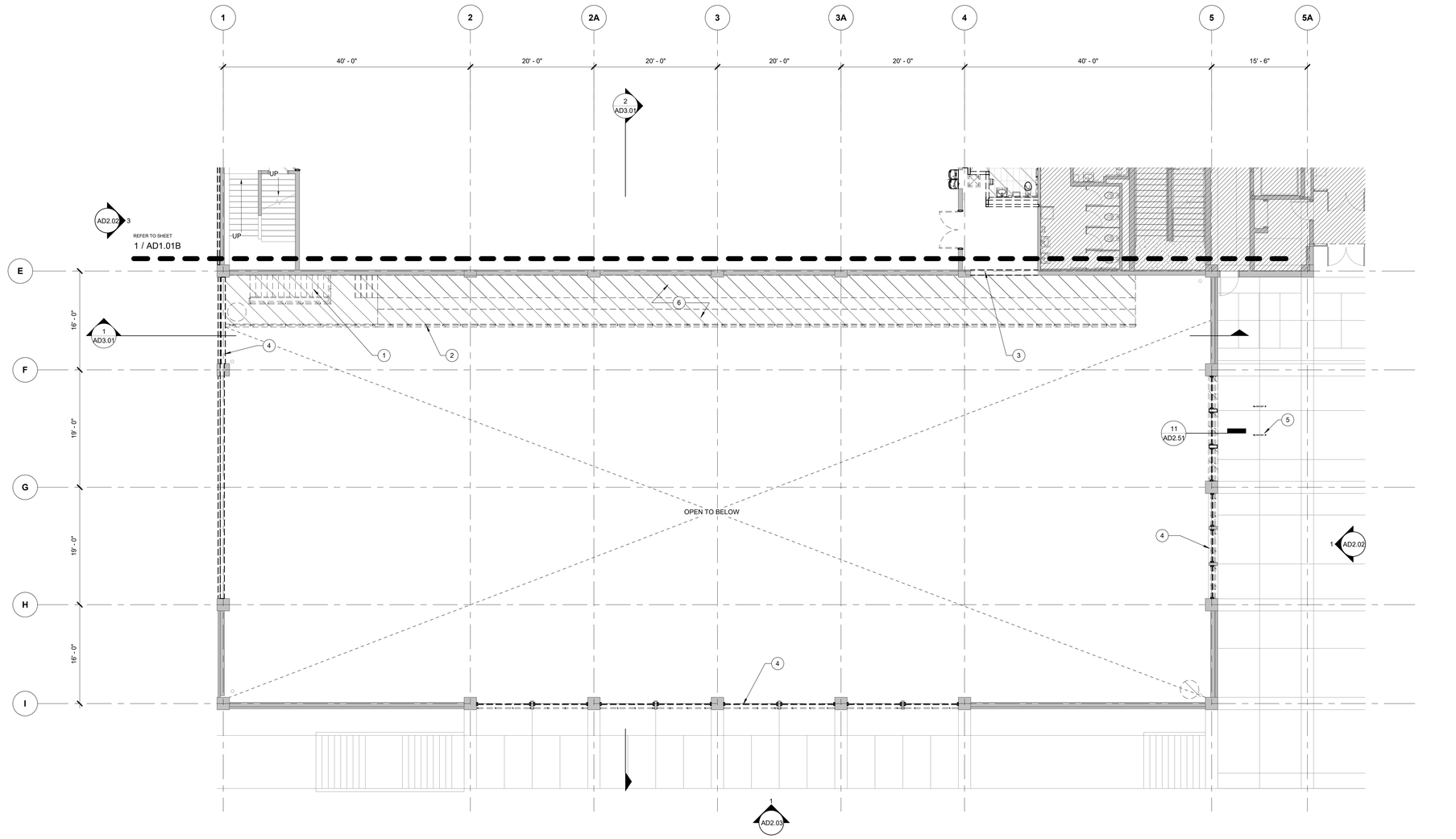
Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24

DEMO PLAN - LEVEL 2 - SECTOR B

AD1.02B

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1 DEMO - LEVEL 2 - SECTOR C
1/8" = 1'-0"

0 4 8 16'

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DEMOLITION PLAN LEGEND

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- EXISTING TO BE DEMOLISHED
- EXISTING TO BE DEMOLISHED - SEE KEYNOTE FOR MORE INFORMATION
- NOT IN ARCHITECTURE SCOPE
- REMOVE CARPET
- REMOVE RESILIENT FLOORING
- REMOVE VINYL FLOOR TILE
- REMOVE FLOOR TILE
- REMOVE SUSPENDED CEILING
- REMOVE GYPSUM CEILING

KEYNOTES - AD1.02C

1 REMOVE CONCRETE STAIRS AND HANDRAILS IN THEIR ENTIRETY

2 REMOVE CONCRETE BALCONY, GUARDRAIL AND STAIRS IN ITS ENTIRETY.

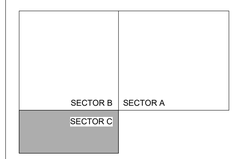
3 REMOVE A PORTION OF CONCRETE WALL, SEE AD3.01 AND REF STRUCTURAL

4 REFERENCE AD2.02 AND AD2.03 FOR DEMOLITION AT EXTERIOR WALLS, TYP.

5 REMOVE AND SALVAGE BICYCLE RACKS. SEE LANDSCAPE DRAWINGS FOR MORE INFORMATION.

6 REMOVE AND SALVAGE WOOD BENCHES, TYP.

KEY PLAN



City of Portland
Reviewed for Code Compliance
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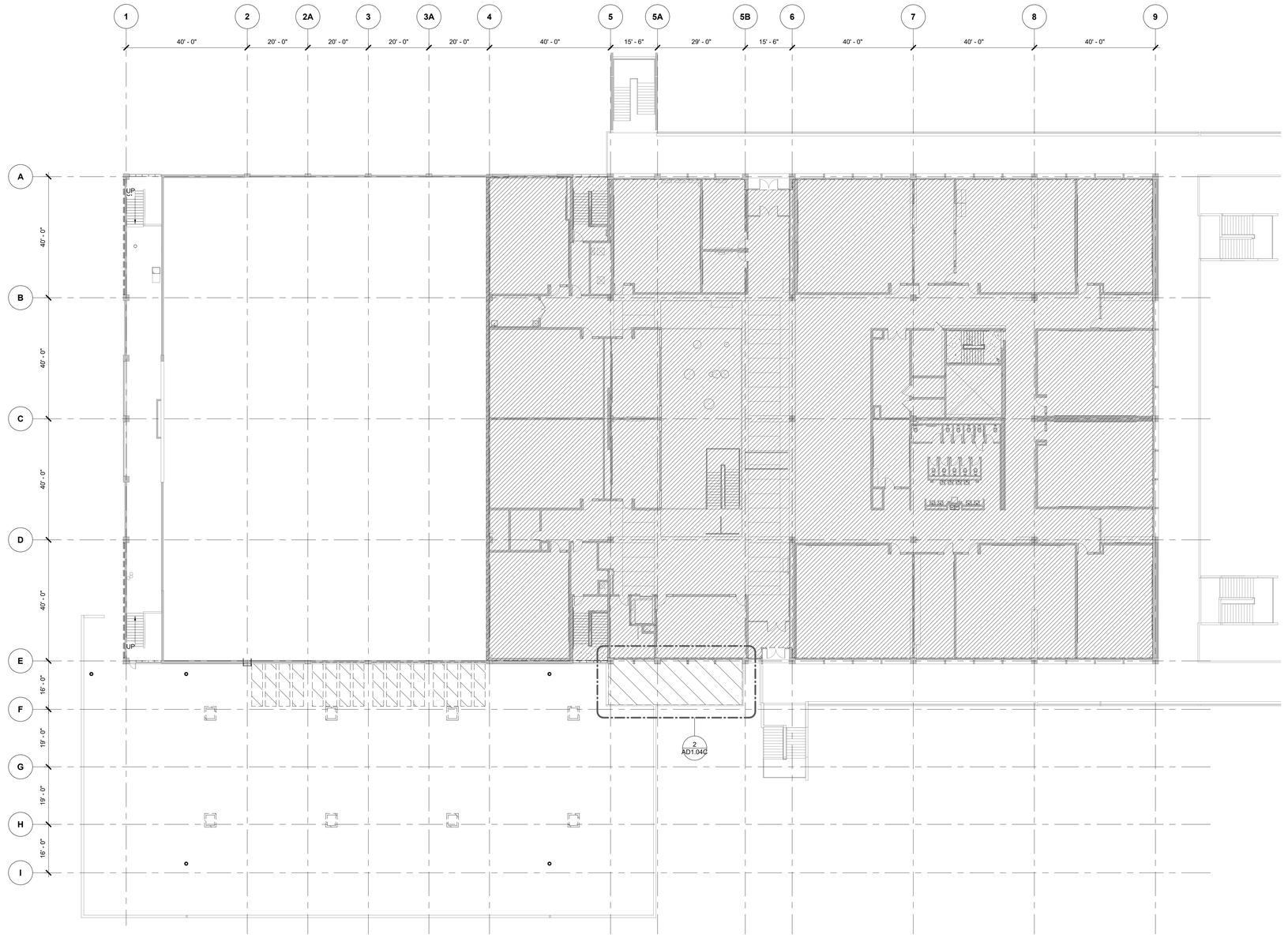
Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24

DEMO PLAN - LEVEL 2 - SECTOR C

AD1.02C

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1 DEMO - LEVEL 3 - OVERALL
1/16" = 1'-0"

0 4 8 16'

DEMOLITION NOTES

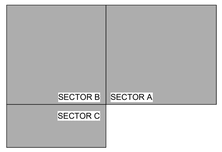
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City of Portland
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KEY PLAN



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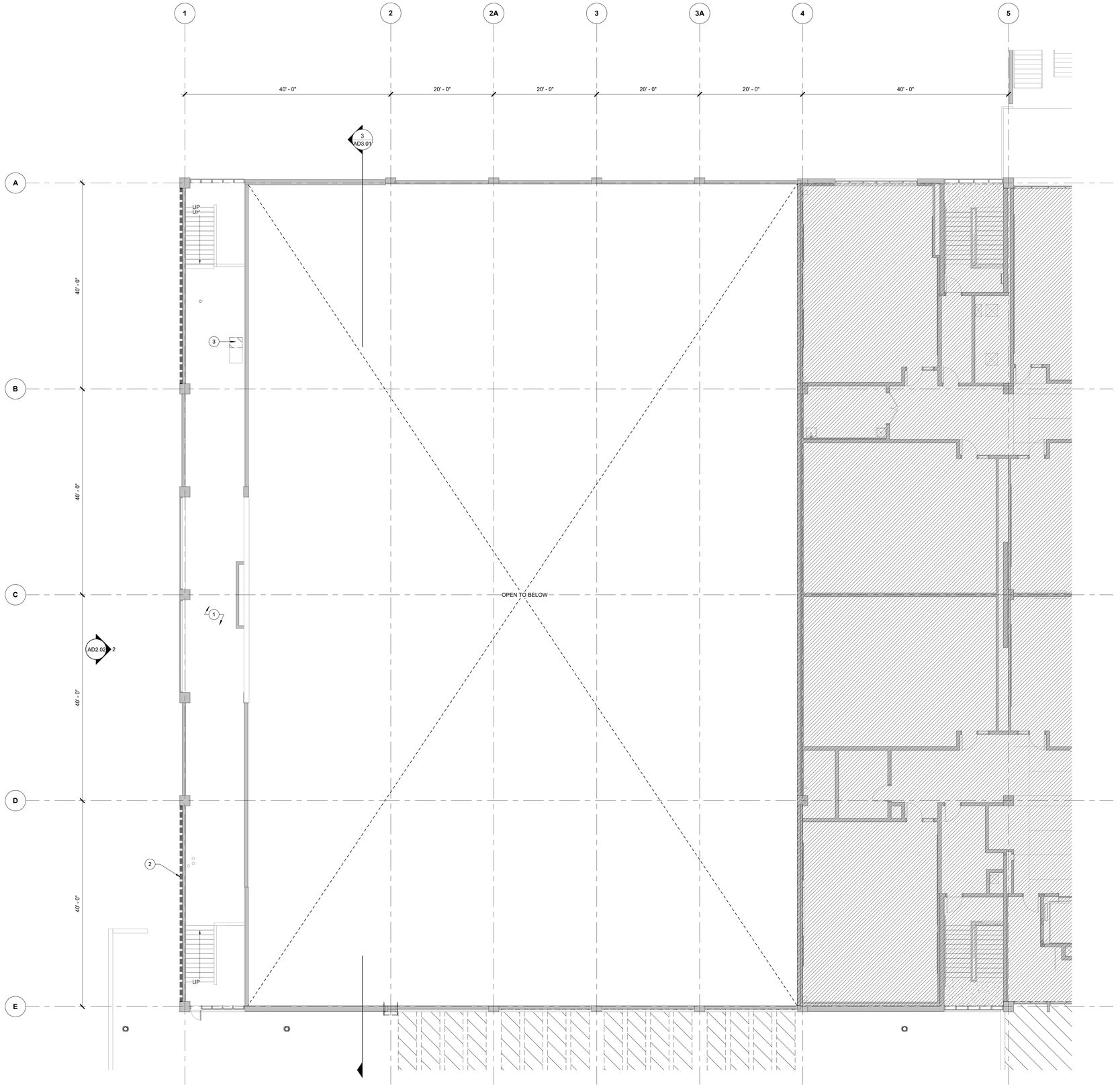
Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24

DEMO PLAN - LEVEL 3 - OVERALL

AD1.03

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1 DEMO - LEVEL 3 - SECTOR B
1/8" = 1'-0"

0 4 8 16'

DEMOLITION NOTES

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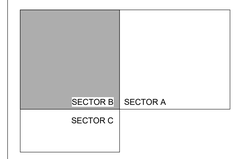
KEYNOTES - AD1.03B

1 SEE MECHANCIAL DRAWINGS FOR ADDITIONAL INFORMATION IN THIS AREA.

2 REFERENCE AD2.02 AND AD2.03 FOR DEMOLITION AT EXTERIOR WALLS, TYP.

3 EXPAND EXISTING FLOOR OPENING. SEE MECHANCIAL DRAWINGS AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION IN THIS AREA.

KEY PLAN



City of Portland
Reviewed for Code Compliance
Date: 8/21/2024
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w+b woofter bolch architecture
107 SE Washington Street, Suite 228
Portland, OR 97214
503 724 0111

REGISTERED ARCHITECT
Miles E. Woofter
PORTLAND, OR
4872
STATE OF OREGON

Portland Community College
12000 SW 49th Ave,
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PCC SY-HT Building West Side Renovation
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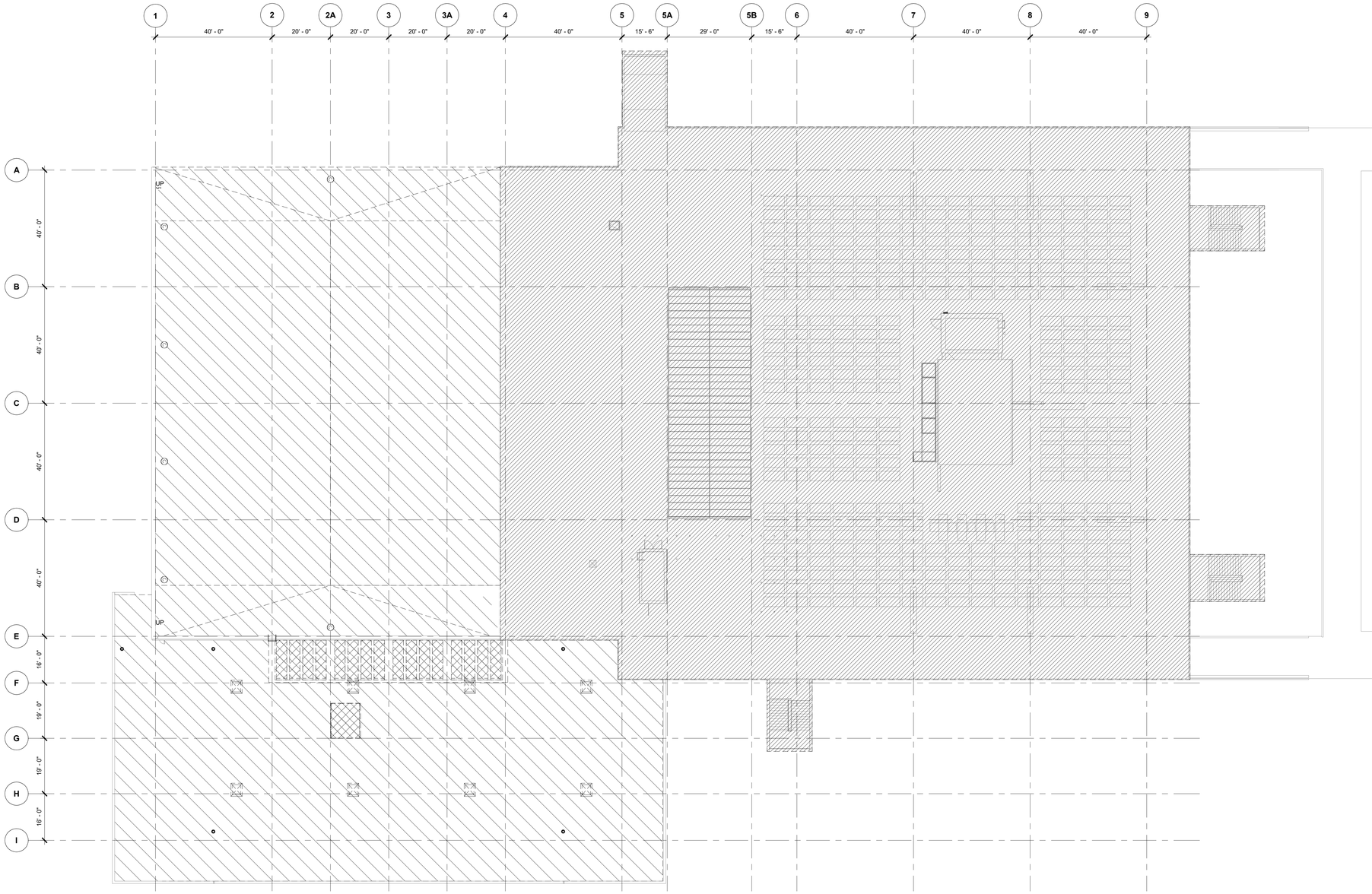
Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24

DEMO PLAN - LEVEL 3 - SECTOR B

AD1.03B

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1 DEMO - ROOF - OVERALL
1/16" = 1'-0"

0 4 8 16"

DEMOLITION NOTES

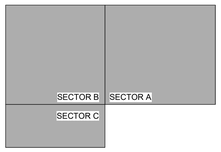
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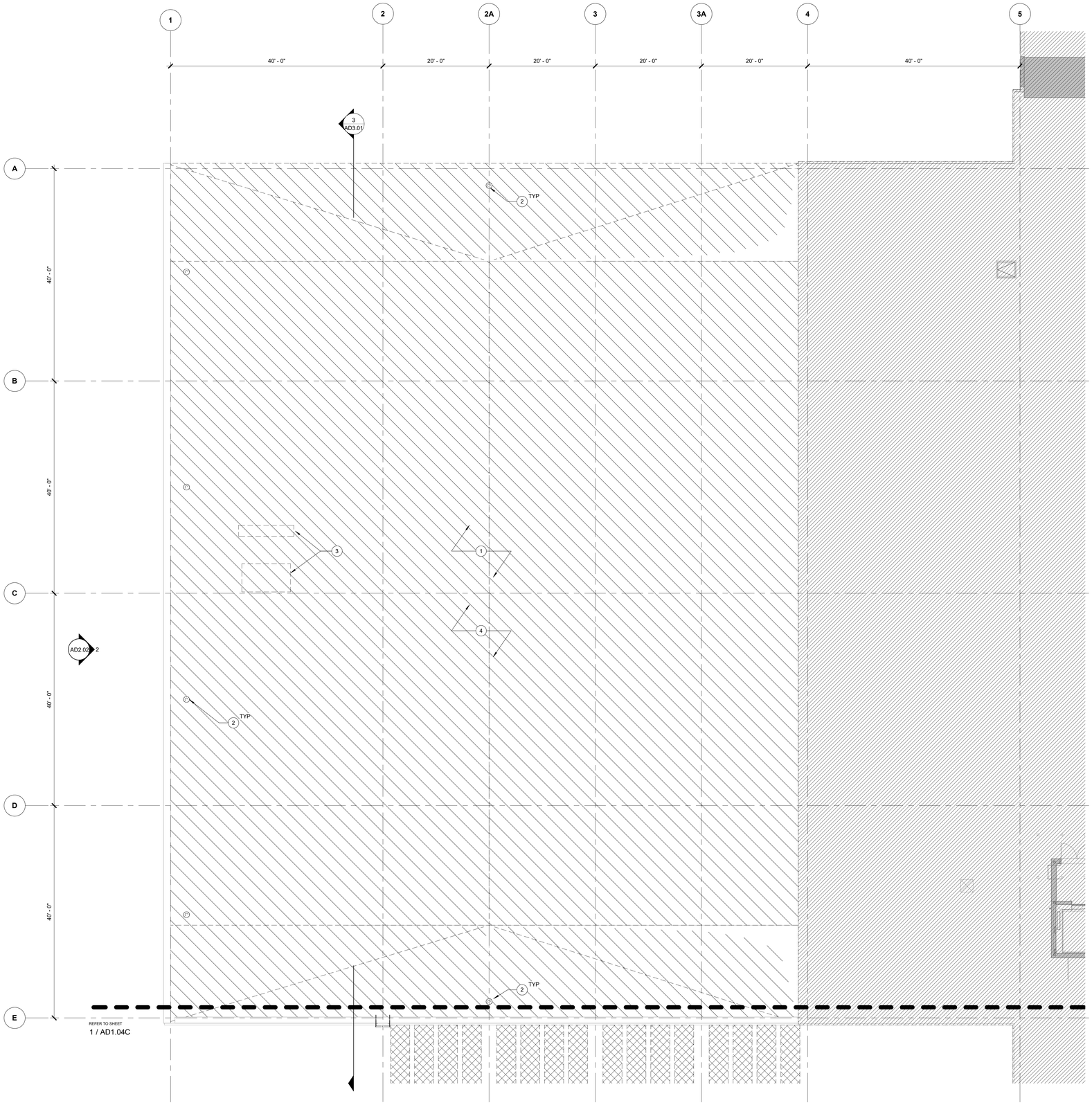
Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24

DEMO PLAN - ROOF - OVERALL

AD1.04

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1 DEMO - ROOF - SECTOR B
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0 4 8 16'

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DEMOLITION PLAN LEGEND

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- EXISTING TO BE DEMOLISHED
- EXISTING TO BE DEMOLISHED - SEE KEYNOTE FOR MORE INFORMATION
- NOT IN ARCHITECTURE SCOPE
- REMOVE CARPET
- REMOVE RESILIENT FLOORING
- REMOVE VINYL FLOOR TILE
- REMOVE FLOOR TILE
- REMOVE SUSPENDED CEILING
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KEYNOTES - AD1.04B

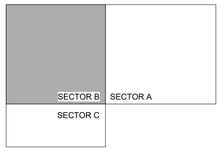
1 DEMO ROOFING AND INSULATION TO TOP OF (E) METAL DECK

2 REMOVE ROOF DRAINS. SEE PLUMBING DRAWINGS FOR MORE INFORMATION.

3 NEW ROOF OPENINGS FOR MECHANICAL DUCTWORK; SEE MECHANICAL AND STRUCTURAL DRAWINGS FOR MORE INFORMATION.

4 DEMO ALL METAL CAPS.

KEY PLAN



City of Portland
Reviewed for Code Compliance
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woofter bolch architecture
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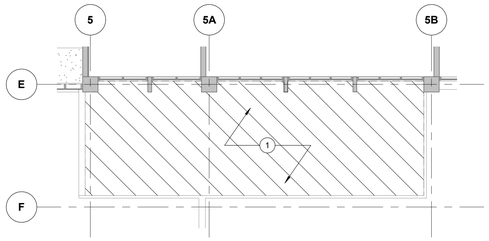
Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24

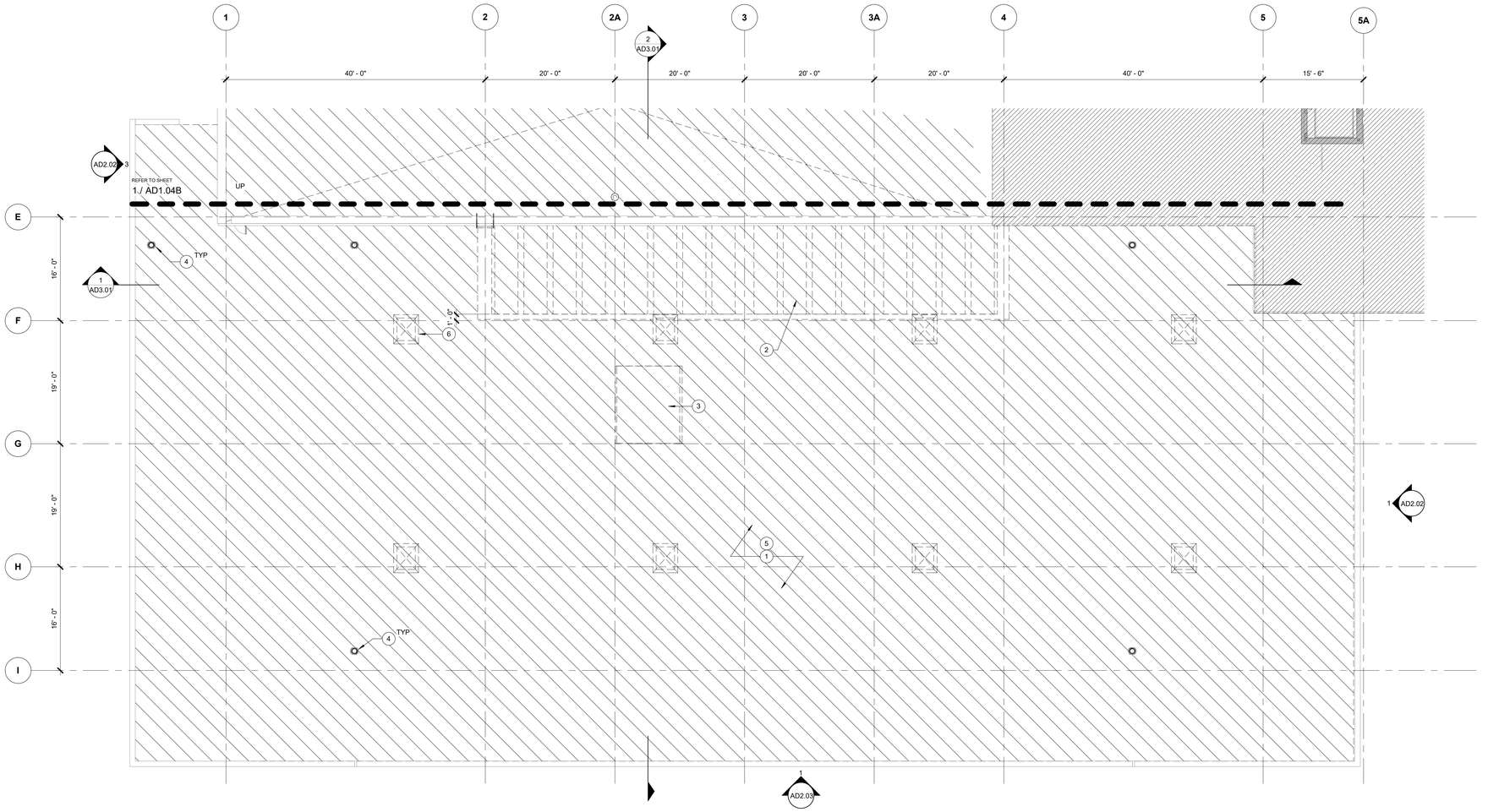
DEMO PLAN - ROOF - SECTOR B

AD1.04B

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2 DEMO ROOF PLAN - CANOPY OVER HT-EAST ENTRY
1/8" = 1'-0"



1 DEMO - ROOF - SECTOR C
1/8" = 1'-0"

0 4 8 16'

DEMOLITION NOTES

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- REMOVE VINYL FLOOR TILE
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KEYNOTES - AD1.04C

1 DEMO ROOFING AND INSULATION TO TOP OF (E) CONCRETE DECK

2 REMOVE WEB OF CONCRETE CHANNELS AS SHOWN. REFERENCE STRUCTURAL DRAWINGS FOR MORE INFORMATION.

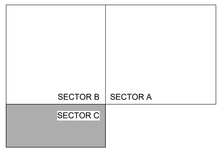
3 REMOVE PORTION OF CONCRETE ROOF STRUCTURE AS SHOWN. REFERENCE STRUCTURAL DRAWINGS FOR MORE INFORMATION.

4 REMOVE ROOF DRAINS. SEE PLUMBING DRAWINGS FOR MORE INFORMATION.

5 DEMO ALL METAL CAPS.

6 REMOVE EXHAUST FANS AND ASSOCIATED CURBS AND EQUIPMENT. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

KEY PLAN



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woofter bolch architecture
107 SE Washington Street, Suite 228
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REGISTERED ARCHITECT
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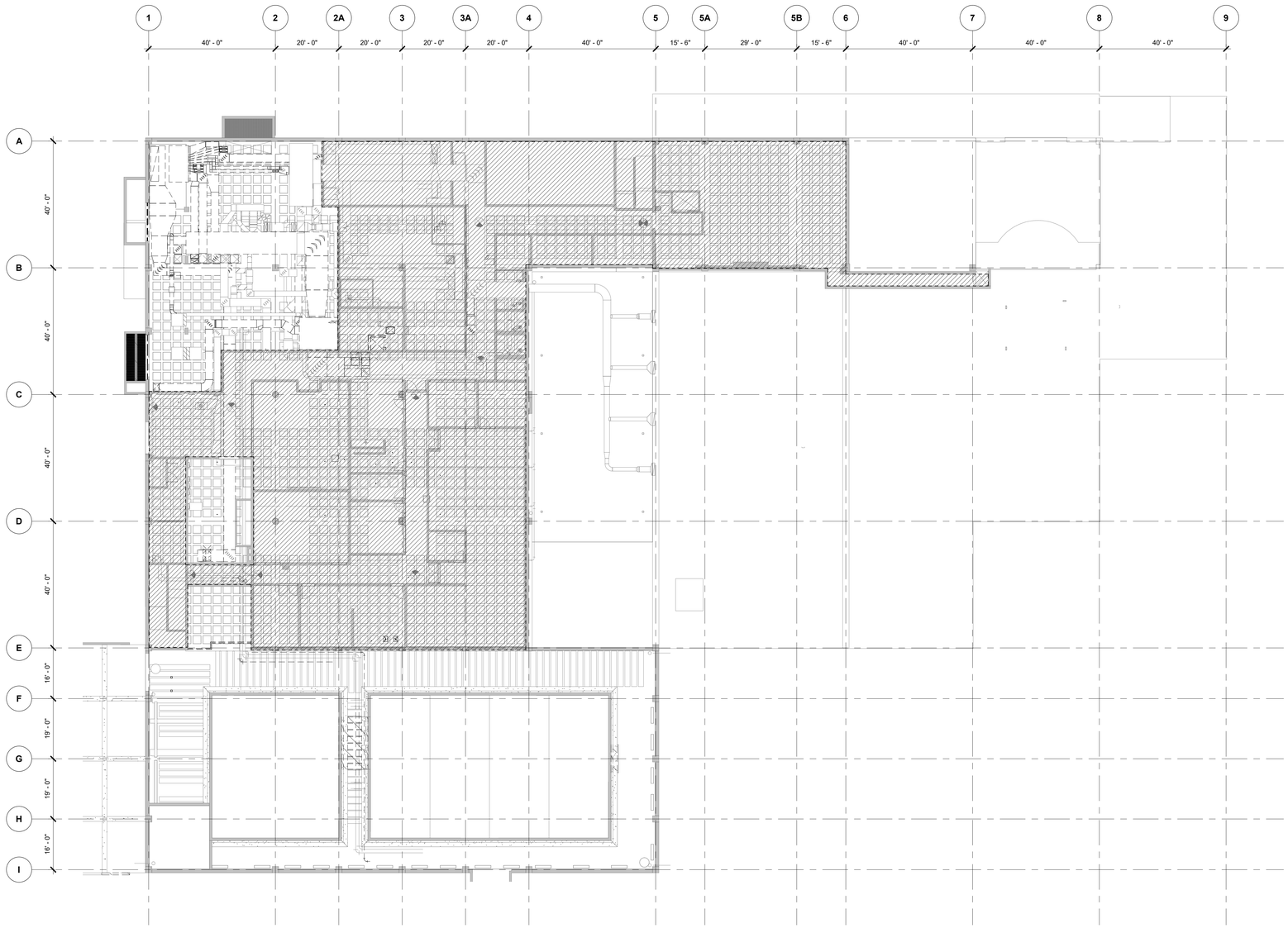
Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24

DEMO PLAN - ROOF - SECTOR C

AD1.04C

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1 DEMO RCP - BASEMENT - OVERALL
1/16" = 1'-0"

0 4 8 16'

DEMOLITION NOTES

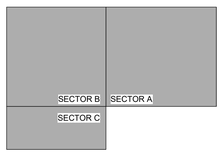
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City of Portland
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KEY PLAN



w+b woofter bolch architecture
107 SE Washington Street, Suite 228
Portland, OR 97214
503 724 0111

REGISTERED ARCHITECT
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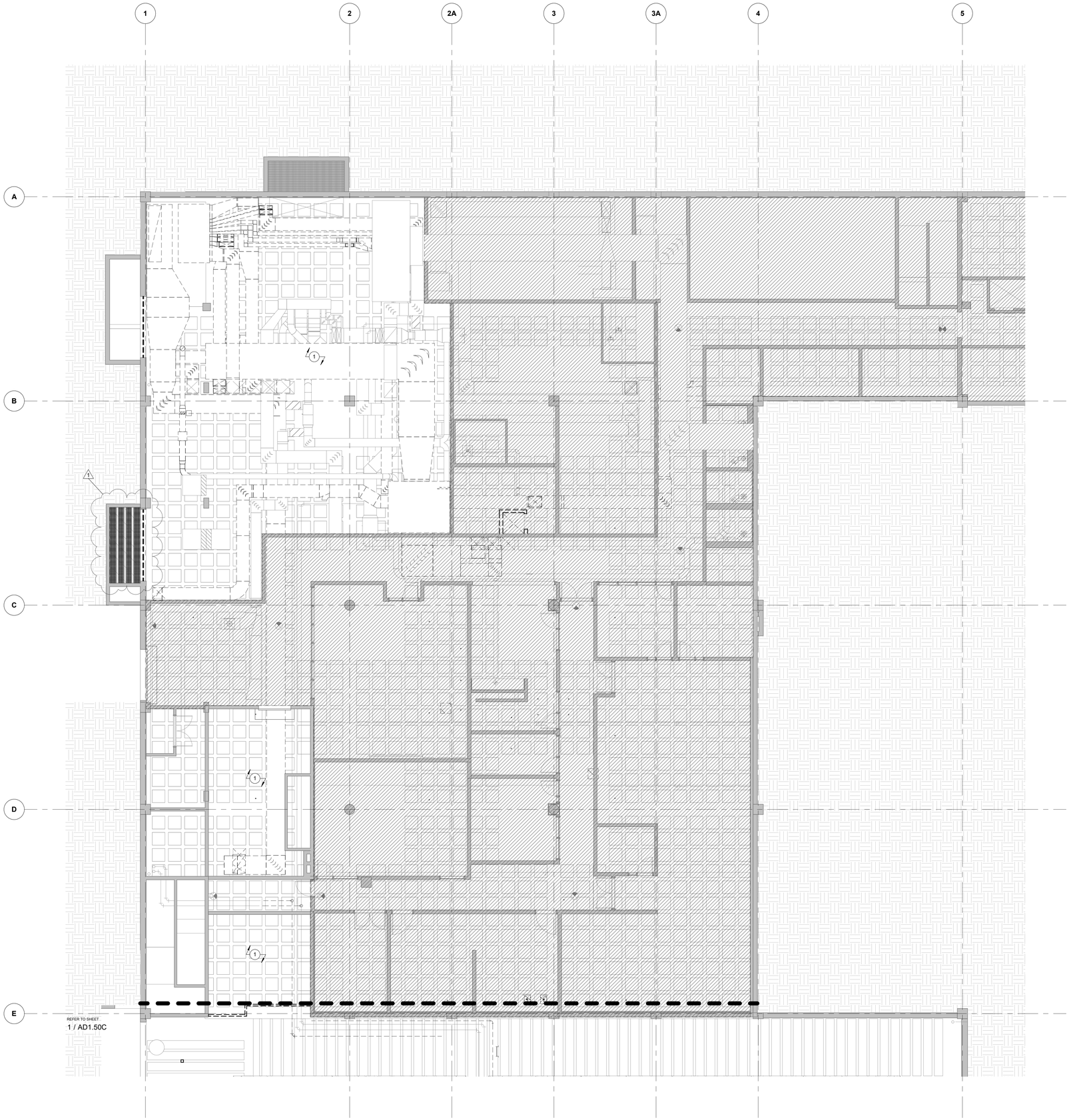
Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24

DEMO RCP - BASEMENT - OVERALL

AD1.50

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1 DEMO RCP - BASEMENT - SECTOR B
1/8" = 1'-0"

0 4 8 16'

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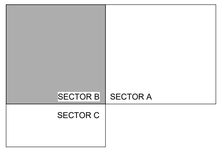
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KEYNOTES - AD1.50B

1 REMOVE ALL LIGHT FIXTURES IN ROOM; POWER RUNS, CONDUITS AND JUNCTION BOXES TO REMAIN. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.

KEY PLAN



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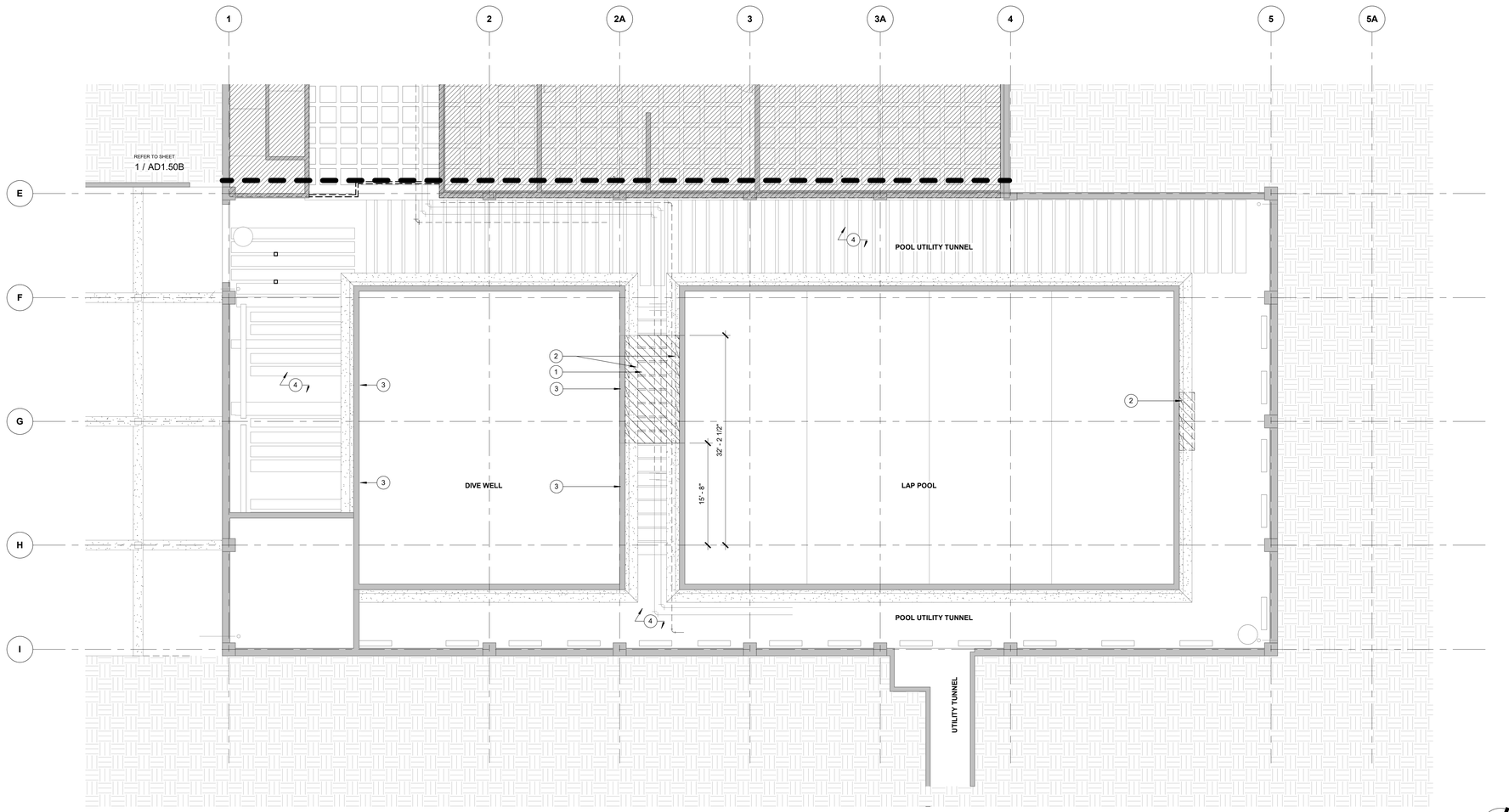
Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24

DEMO RCP - BASEMENT - SECTOR B

AD1.50B

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1 DEMO RCP - BASEMENT - SECTOR C
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0 4 8 16'

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9. COORDINATE THE SALVAGE OF EQUIPMENT AND FIXTURES WITH OWNER PRIOR TO REMOVAL.
10. FIELD VERIFY ALL GIVEN DIMENSIONS.
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DEMOLITION PLAN LEGEND

- EXISTING TO REMAIN
- EXISTING TO BE DEMOLISHED
- EXISTING TO BE DEMOLISHED - SEE KEYNOTE FOR MORE INFORMATION
- NOT IN ARCHITECTURE SCOPE
- REMOVE CARPET
- REMOVE RESILIENT FLOORING
- REMOVE VINYL FLOOR TILE
- REMOVE FLOOR TILE
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KEYNOTES - AD1.50C

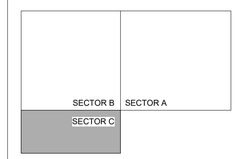
1 REMOVE PORTION OF POOL DECK AND POOL LIGHT FIXTURE CONCRETE HOUSING IN AREA INDICATED TO ALLOW FOR NEW ELEVATOR (IN FUTURE PERMIT).

2 REMOVE PORTION OF POOL DECK GUTTER BEAM

3 REMOVE POOL LIGHTS. WIRING AND ASSOCIATED CONDUIT TO BE REMOVED. PATCH HOLE FOR LIGHT FIXTURE HOUSING.

4 REMOVE ALL LIGHT FIXTURES IN ROOM; POWER RUNS, CONDUITS AND JUNCTION BOXES TO REMAIN. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.

KEY PLAN



City of Portland
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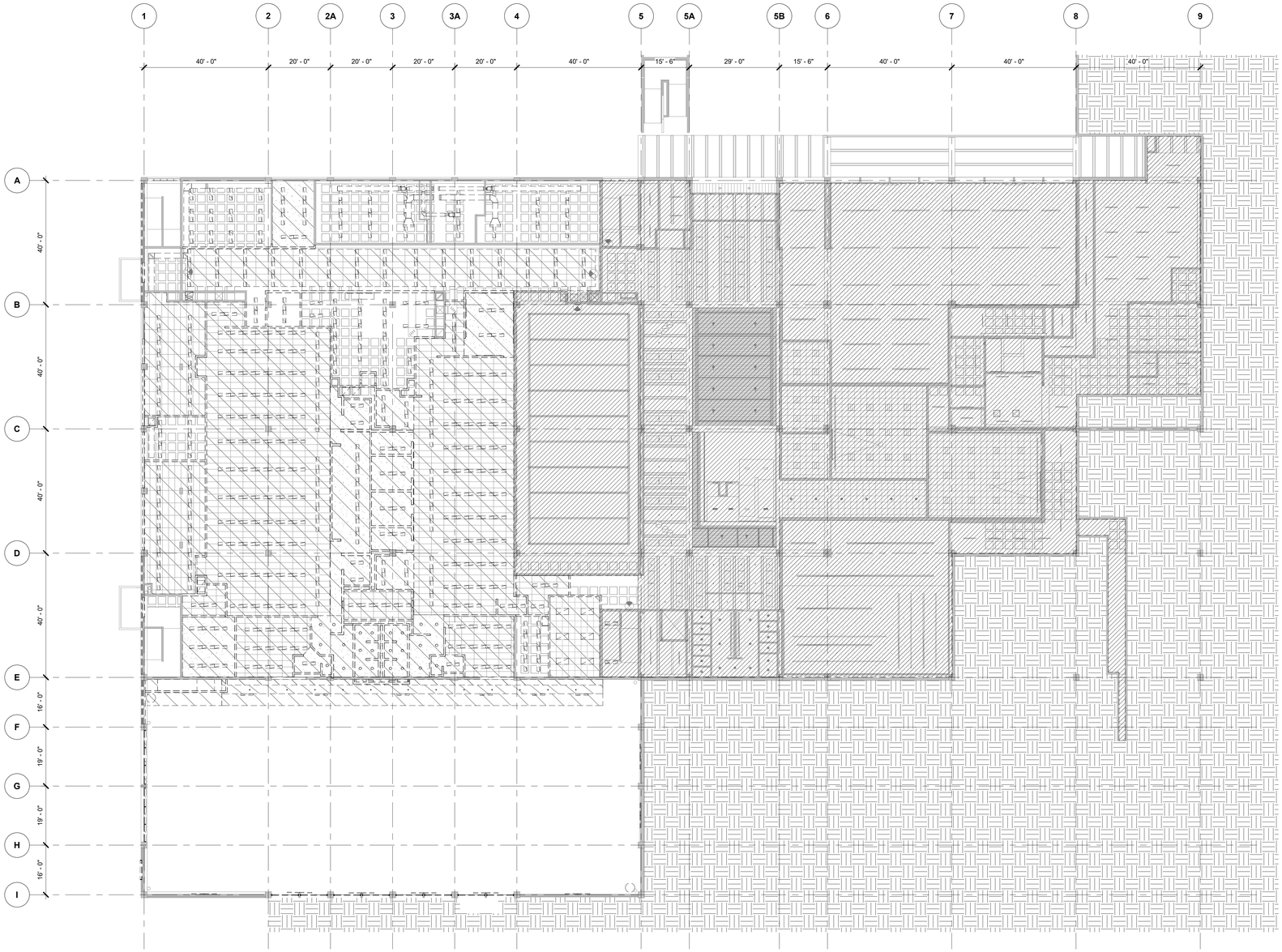
Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24

DEMO RCP - BASEMENT - SECTOR C

AD1.50C

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1 DEMO RCP - LEVEL 1 - OVERALL
1/16" = 1'-0"

0 4 8 16'

DEMOLITION NOTES

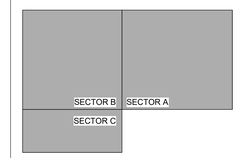
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KEY PLAN



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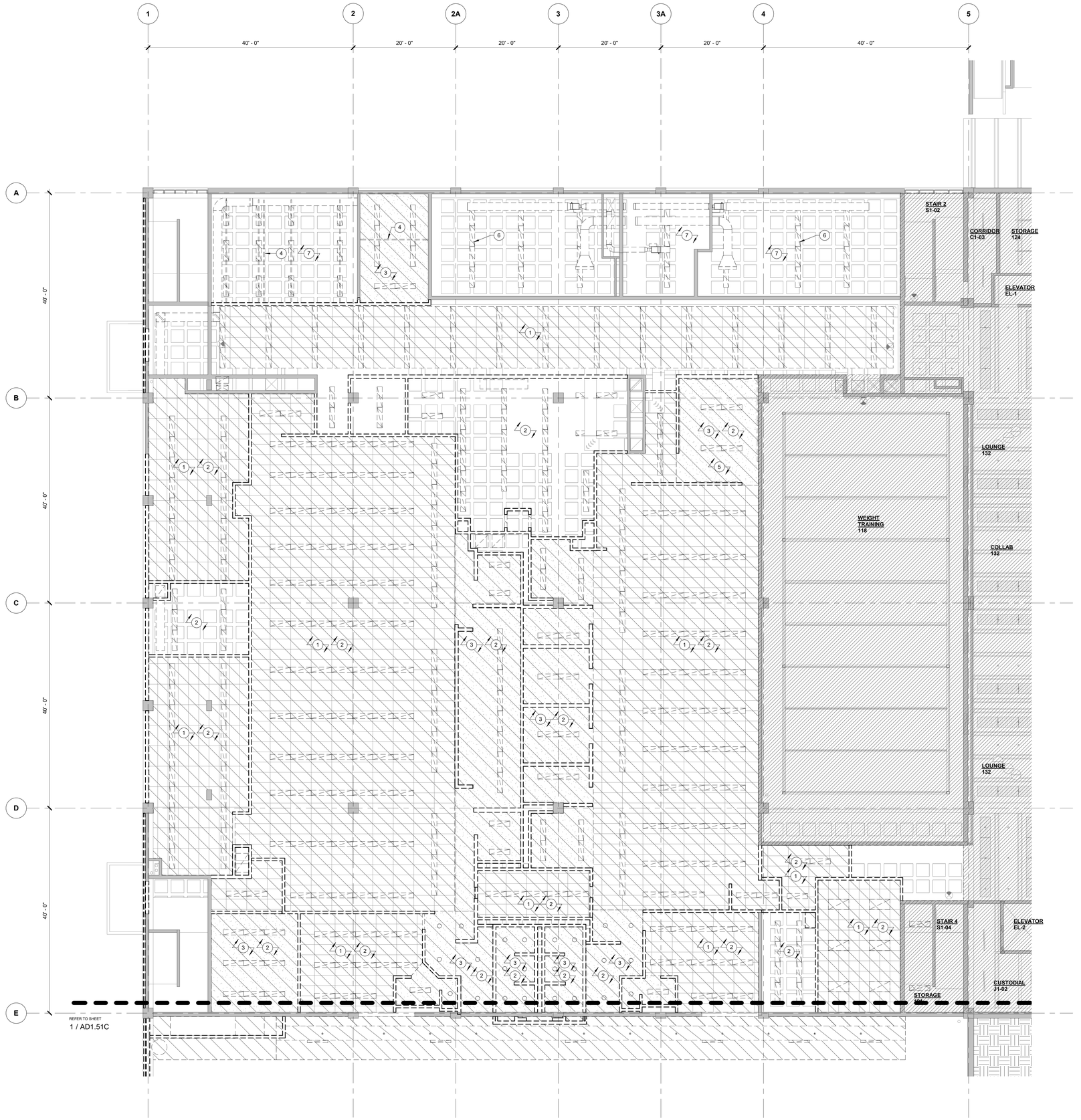
Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24

DEMO RCP - LEVEL 1 - OVERALL

AD1.51

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1 DEMO RCP - LEVEL 1 - SECTOR B
1/8" = 1'-0"

0 4 8 16'

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- REMOVE FLOOR TILE
- REMOVE SUSPENDED CEILING
- REMOVE GYPSUM CEILING

KEYNOTES - AD1.51B

1 REMOVE SUSPENDED CEILING AND ANY ASSOCIATED STRUCTURAL CEILING SUPPORT IN ITS ENTIRETY. REMOVE ALL LIGHT FIXTURES, DIFFUSERS, AND EQUIPMENT UNLESS NOTED OTHERWISE.

2 ALL LIGHT FIXTURES, CONDUITS AND HANGERS TO BE REMOVED IN AREAS EXPOSED TO STRUCTURE

3 REMOVE HARD LID CEILING AND ANY ASSOCIATED STRUCTURAL CEILING SUPPORT IN ITS ENTIRETY. REMOVE ALL LIGHT FIXTURES, DIFFUSERS, AND EQUIPMENT UNLESS NOTED OTHERWISE.

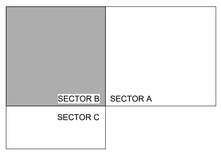
4 REMOVE CURTAIN TRACK AND SUPPORTS IN ITS ENTIRETY.

5 REMOVE ALL WALL MOUNTED LIGHT FIXTURES, CONDUITS AND HANGERS.

6 REMOVE AND SALVAGE LIGHT FIXTURE IN THIS ROOM AND COORDINATE STORAGE WITH OWNER.

7 REMOVE EXISTING LIGHT FIXTURES.

KEY PLAN



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107 SE Washington Street, Suite 228
Portland, OR 97214
503 724 0111

REGISTERED ARCHITECT
Miles E. Woofter
PORTLAND, OR
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City of Portland
Reviewed for Code Compliance
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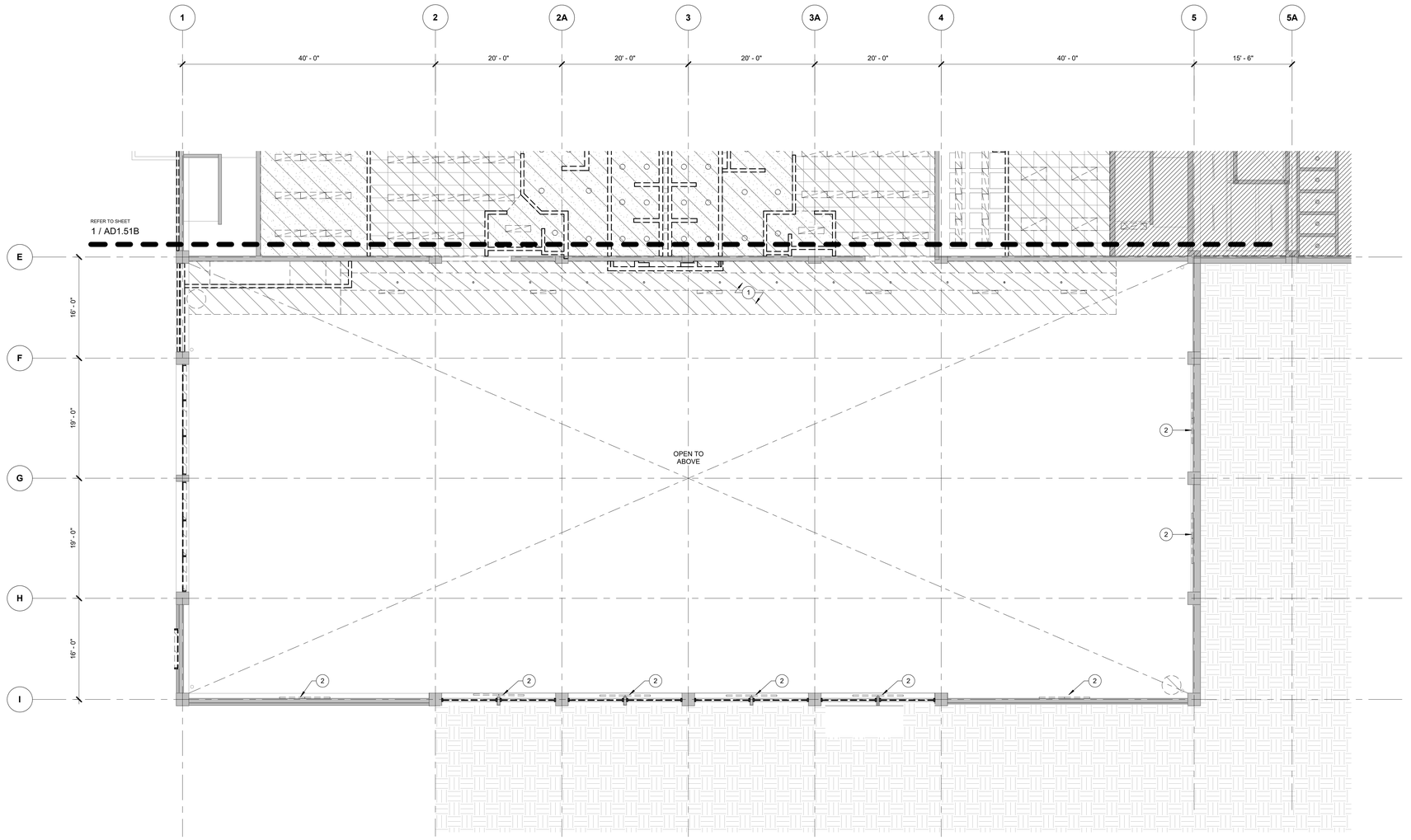
Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24

DEMO RCP - LEVEL 1 - SECTOR B

AD1.51B

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1 DEMO RCP - LEVEL 1 - SECTOR C
1/8" = 1'-0"

0 4 8 16'

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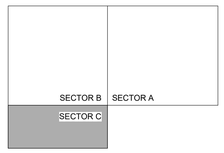
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KEYNOTES - AD1.51C

1 REMOVE EXISTING LIGHT FIXTURES.

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KEY PLAN



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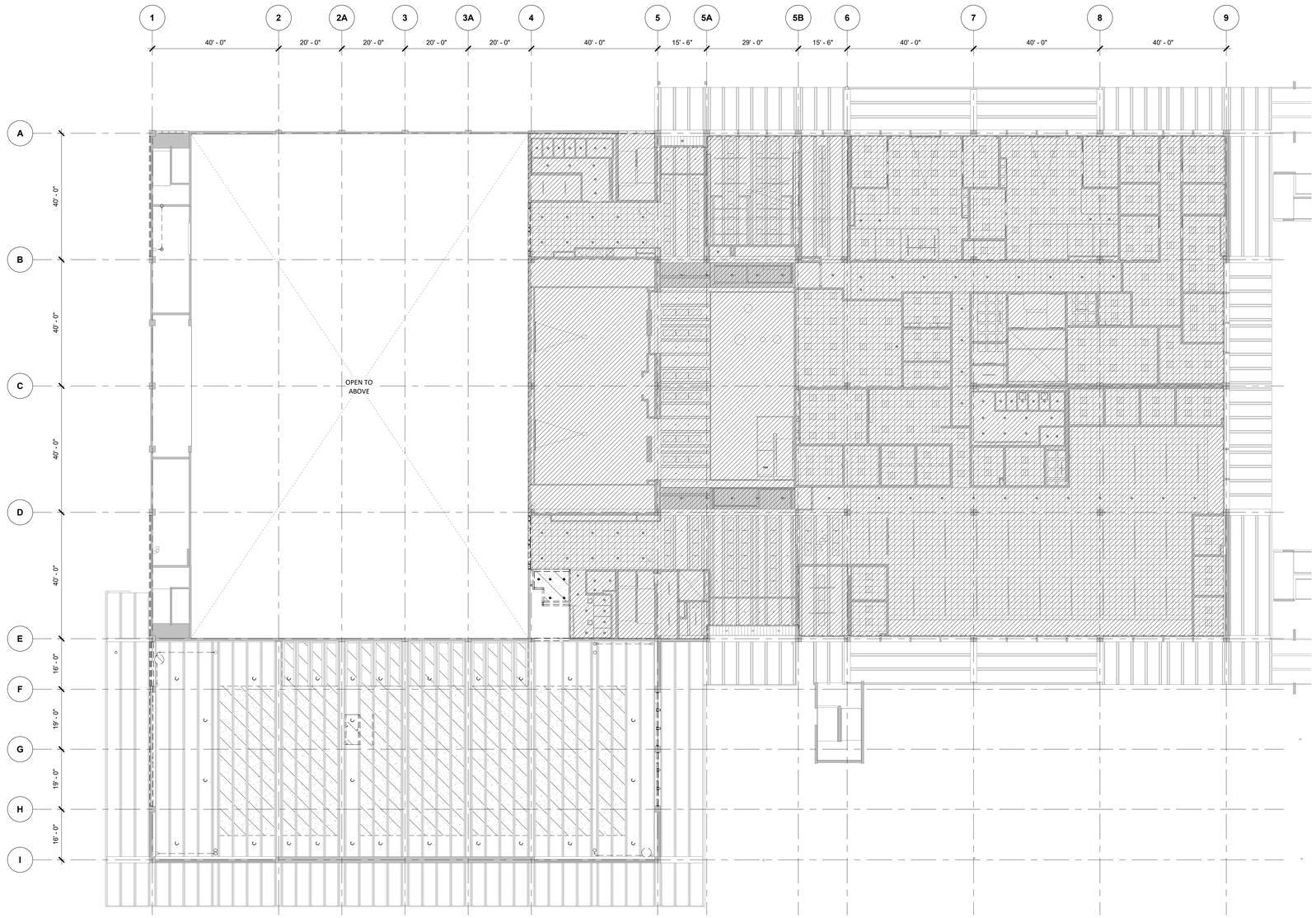
Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24

DEMO RCP - LEVEL 1 - SECTOR C

AD1.51C

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1 DEMO RCP - LEVEL 2 - OVERALL
1/16" = 1'-0"

0 4 8 16'

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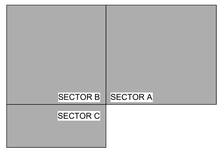
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DEMOLITION PLAN LEGEND

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City of Portland
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KEY PLAN



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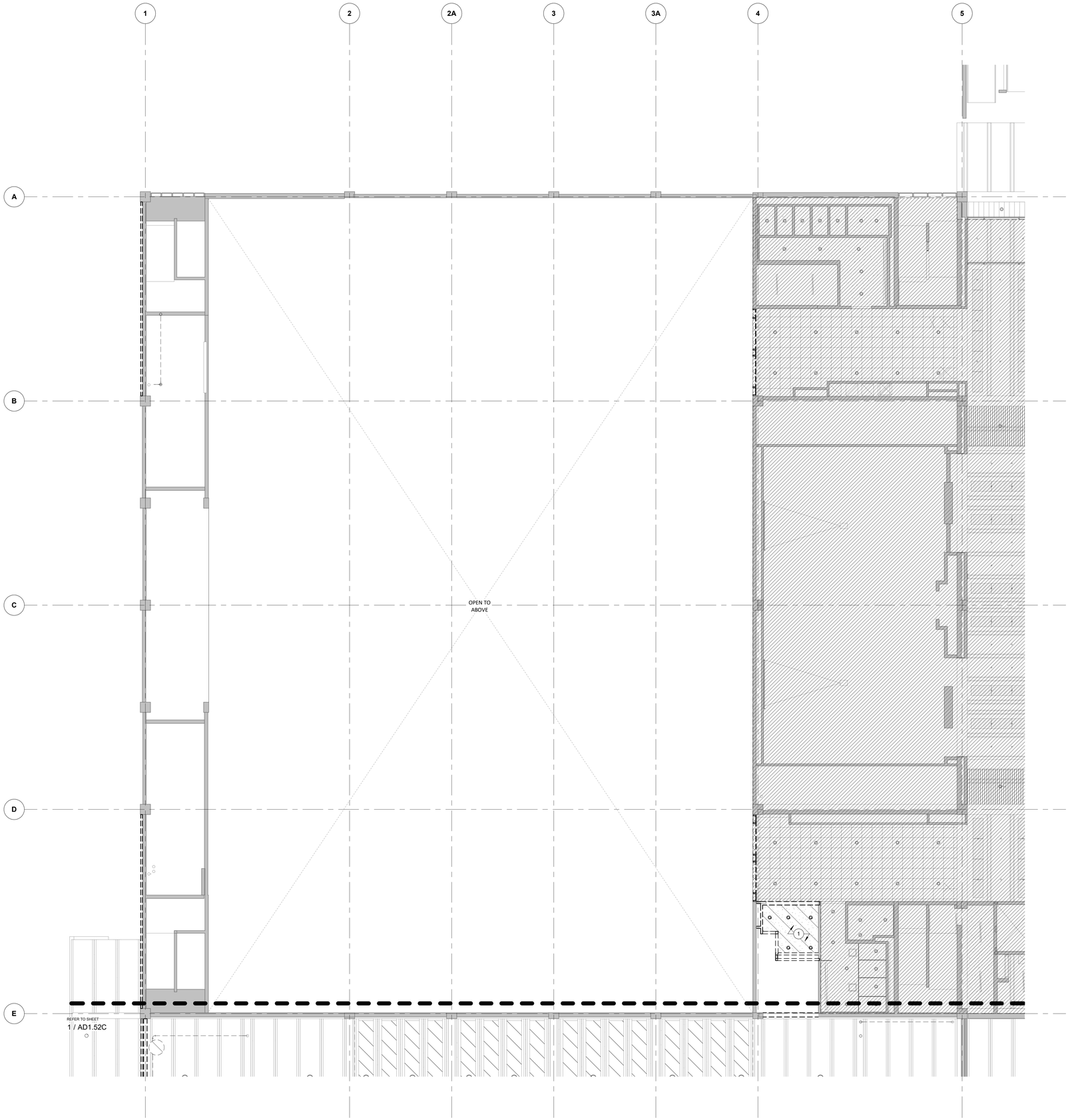
Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24

DEMO RCP - LEVEL 2 - OVERALL

AD1.52

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1 DEMO RCP - LEVEL 2 - SECTOR B
1/8" = 1'-0"

0 4 8 16'

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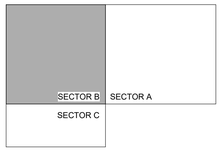
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KEYNOTES - AD1.52B

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KEY PLAN



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w+b woofter bolch architecture
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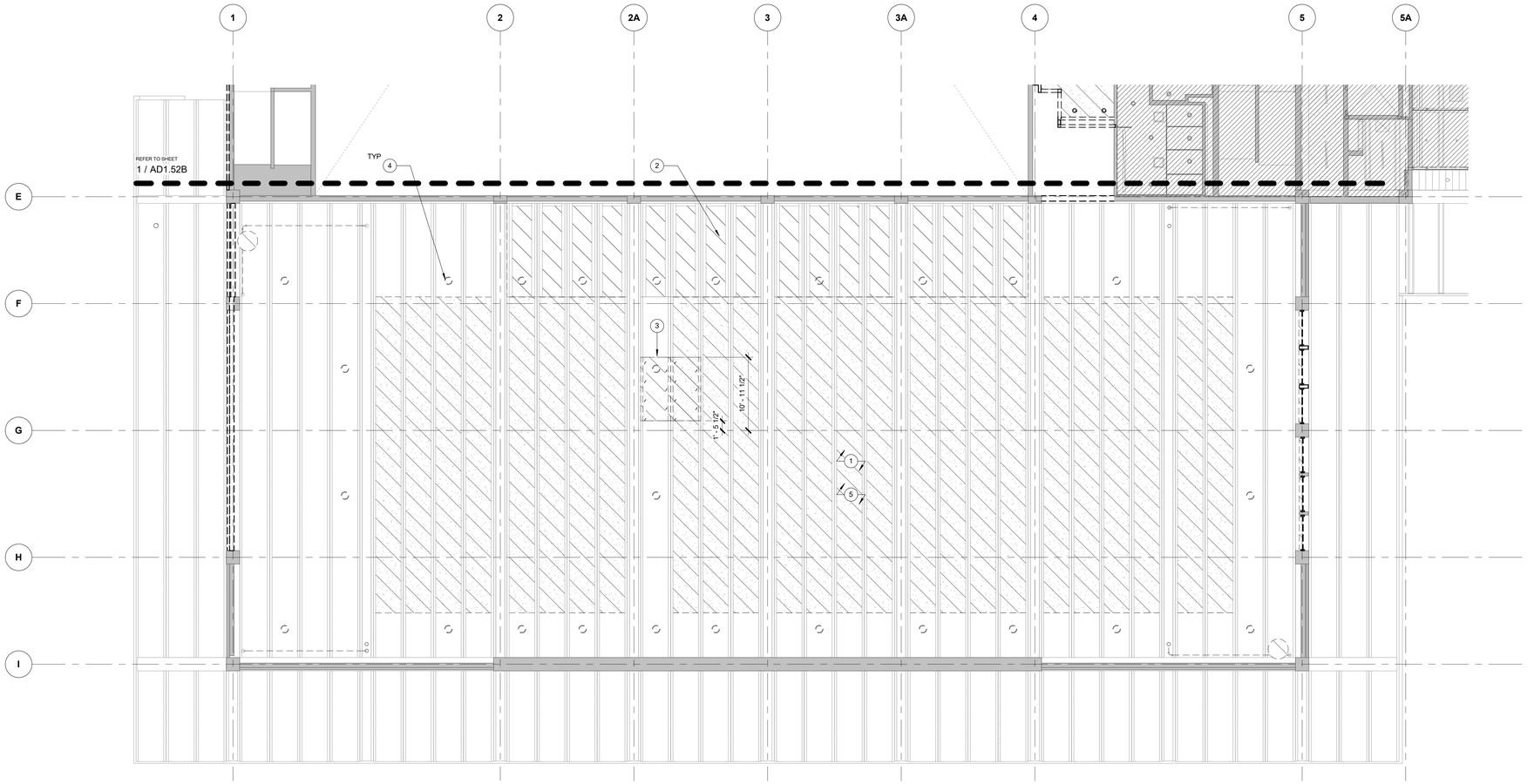
Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24

DEMO RCP - LEVEL 2 - SECTOR B

AD1.52B

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1 DEMO RCP - LEVEL 2 - SECTOR C
1/8" = 1'-0"

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KEYNOTES - AD1.52C

1 REMOVE HORIZONTAL AND VERTICAL ACOUSTIC PANEL THROUGHOUT ROOM.

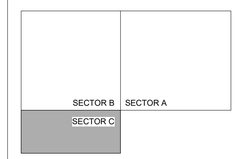
2 REMOVE WEB OF CONCRETE TS AS SHOWN. REFERENCE STRUCTURAL.

3 REMOVE PORTION OF CONCRETE ROOF STRUCTURE AS SHOWN. REFERENCE STRUCTURAL DRAWINGS.

4 REMOVE AND SALVAGE HIGHBAY LIGHT FIXTURES AND DELIVERY TO OWNER DESIGNATED STORAGE.

5 ALL LIGHT FIXTURES, CONDUITS AND HANGERS TO BE REMOVED IN AREAS EXPOSED TO STRUCTURE

KEY PLAN



City of Portland
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w+b woofter bolch architecture
107 SE Washington Street, Suite 228
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503 724 0111

REGISTERED ARCHITECT
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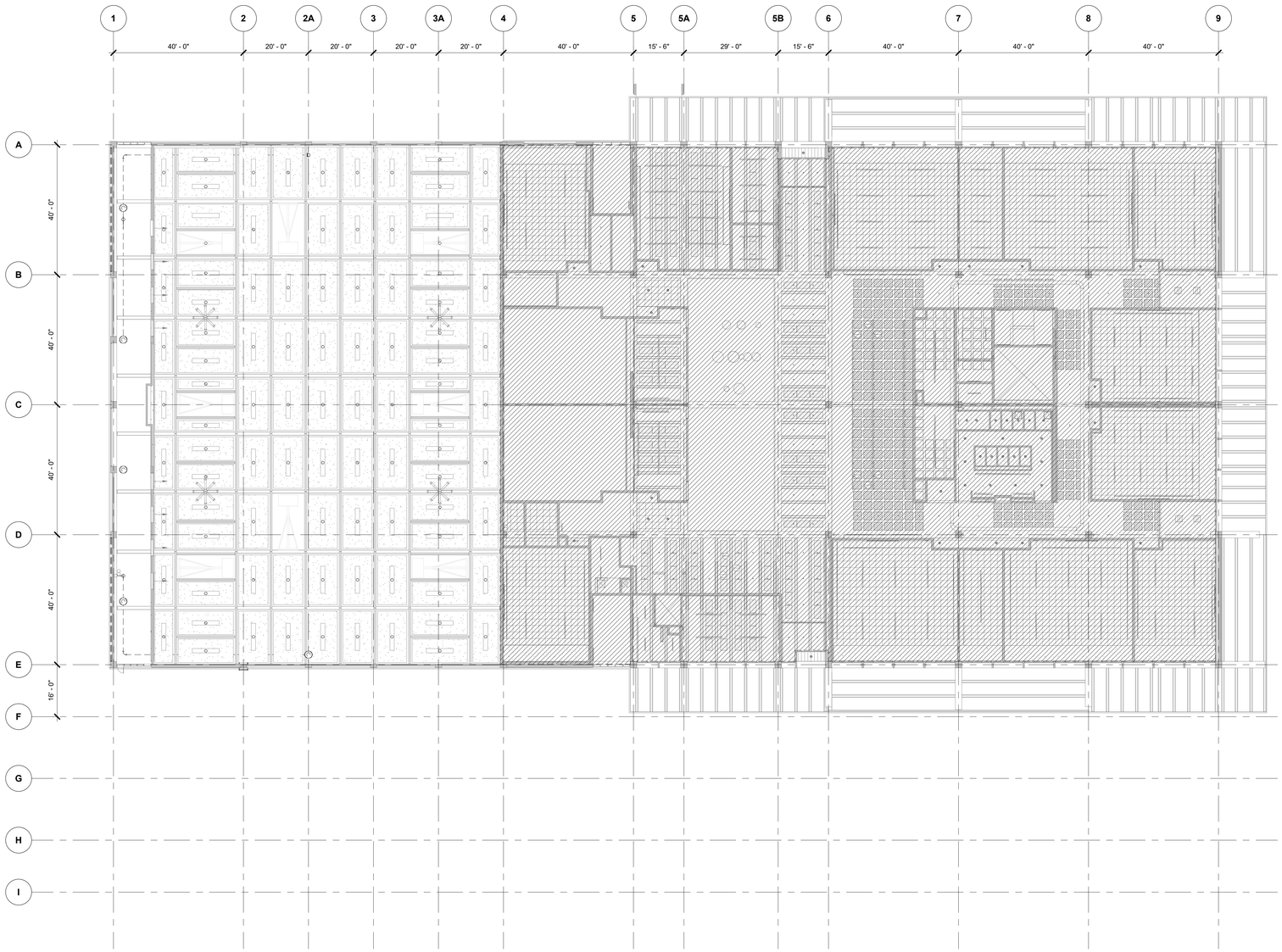
Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24

DEMO RCP - LEVEL 2 - SECTOR C

AD1.52C

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1 DEMO RCP - LEVEL 3 - OVERALL
1/16" = 1'-0"

0 4 8 16'

DEMOLITION NOTES

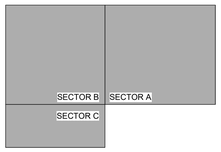
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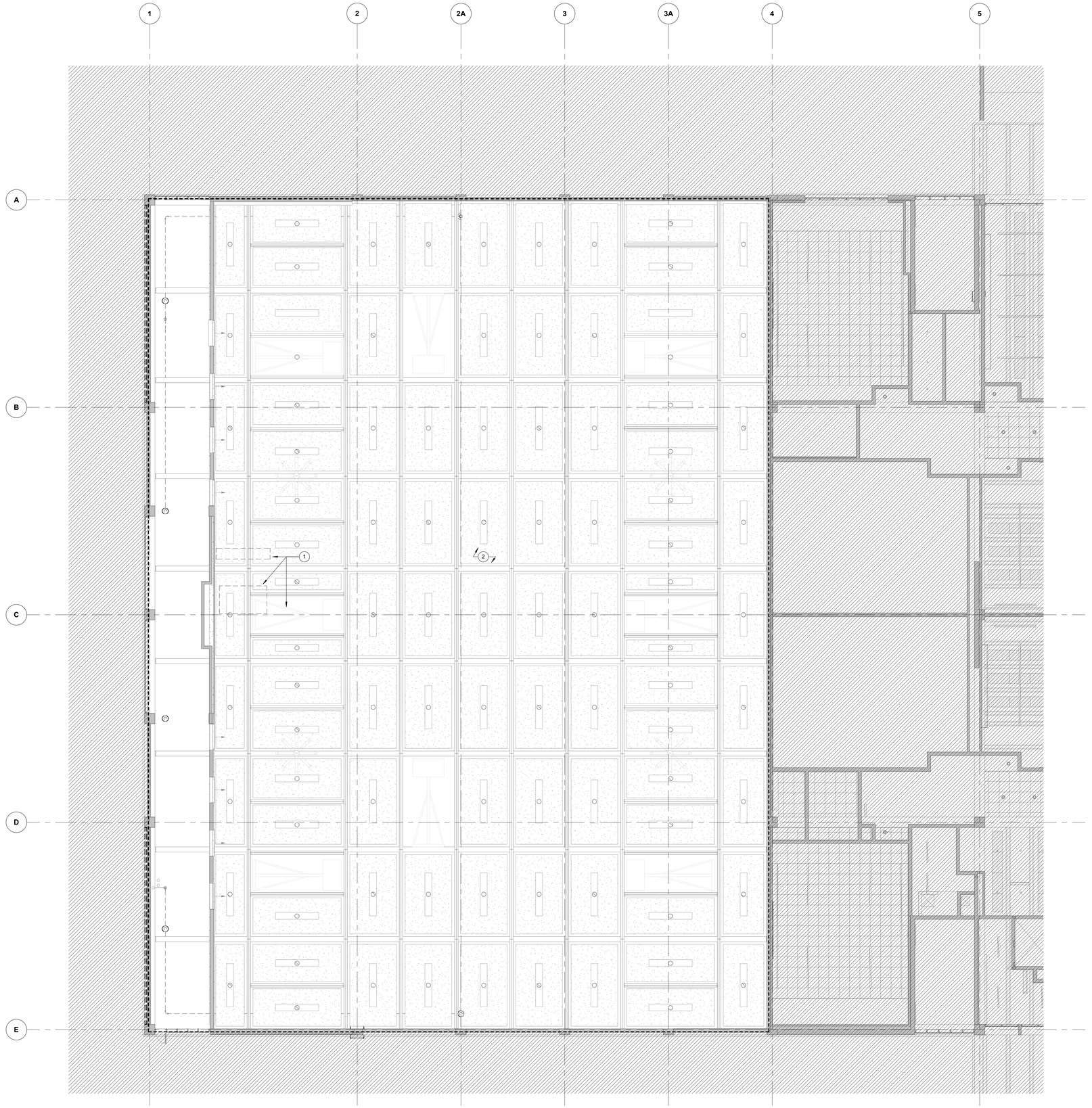
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DEMO RCP - LEVEL 3 - OVERALL

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1 DEMO RCP - LEVEL 3 - SECTOR B
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1

DEMOLITION PLAN LEGEND

- EXISTING TO REMAIN
- EXISTING TO BE DEMOLISHED
- EXISTING TO BE DEMOLISHED - SEE KEYNOTE FOR MORE INFORMATION
- NOT IN ARCHITECTURE SCOPE
- REMOVE CARPET
- REMOVE RESILIENT FLOORING
- REMOVE VINYL FLOOR TILE
- REMOVE FLOOR TILE
- REMOVE SUSPENDED CEILING
- REMOVE GYPSUM CEILING

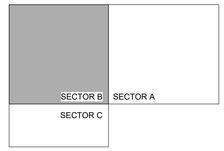
City of Portland
Reviewed for Code Compliance
Date: 8/21/2024
Permit #: 24-020319-STR-01-CO

KEYNOTES - AD1.53B

1 DASHED LINE INDICATES APPROXIMATE LOCATION OF MECHANICAL DUCT DROPS FROM ROOFTOP AHU. REMOVE AND SALVAGE EXISTING ACOUSTICAL CEILING PANELS FOR REINSTALLATION AS REQUIRED TO INSTALL WORK. VERIFY IN FIELD EXISTING BASEKETBALL HOOP CONNECTION STRUCTURE AND REMOVE AND SALVAGE FOR INSTALLATION IF REQUIRED. SEE STRUCTURAL AND MECHANICAL DRAWINGS FOR MORE INFORMATION

2 REMOVE ALL LIGHT FIXTURES IN ROOM; POWER RUNS, CONDUITS AND JUNCTION BOXES TO REMAIN. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.

KEY PLAN



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107 SE Washington Street, Suite 228
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503 724 0111

REGISTERED ARCHITECT
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PCC SY-HT Building West Side Renovation
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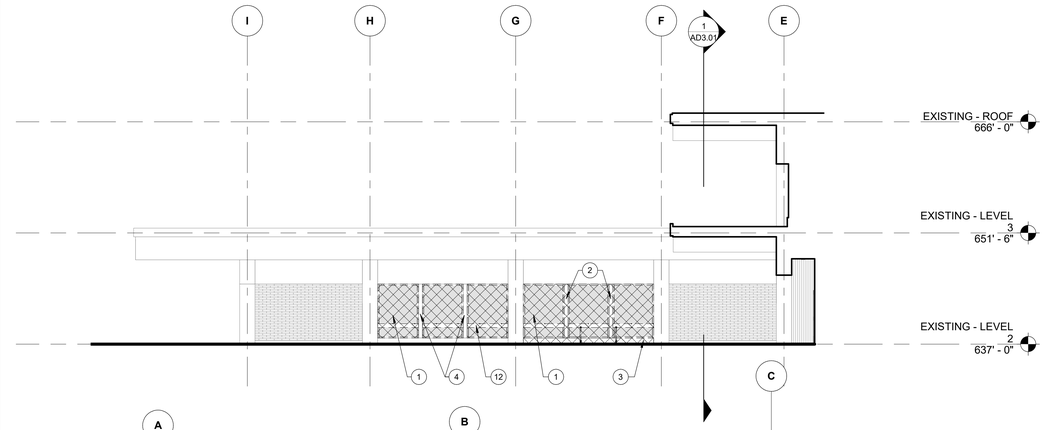
Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24

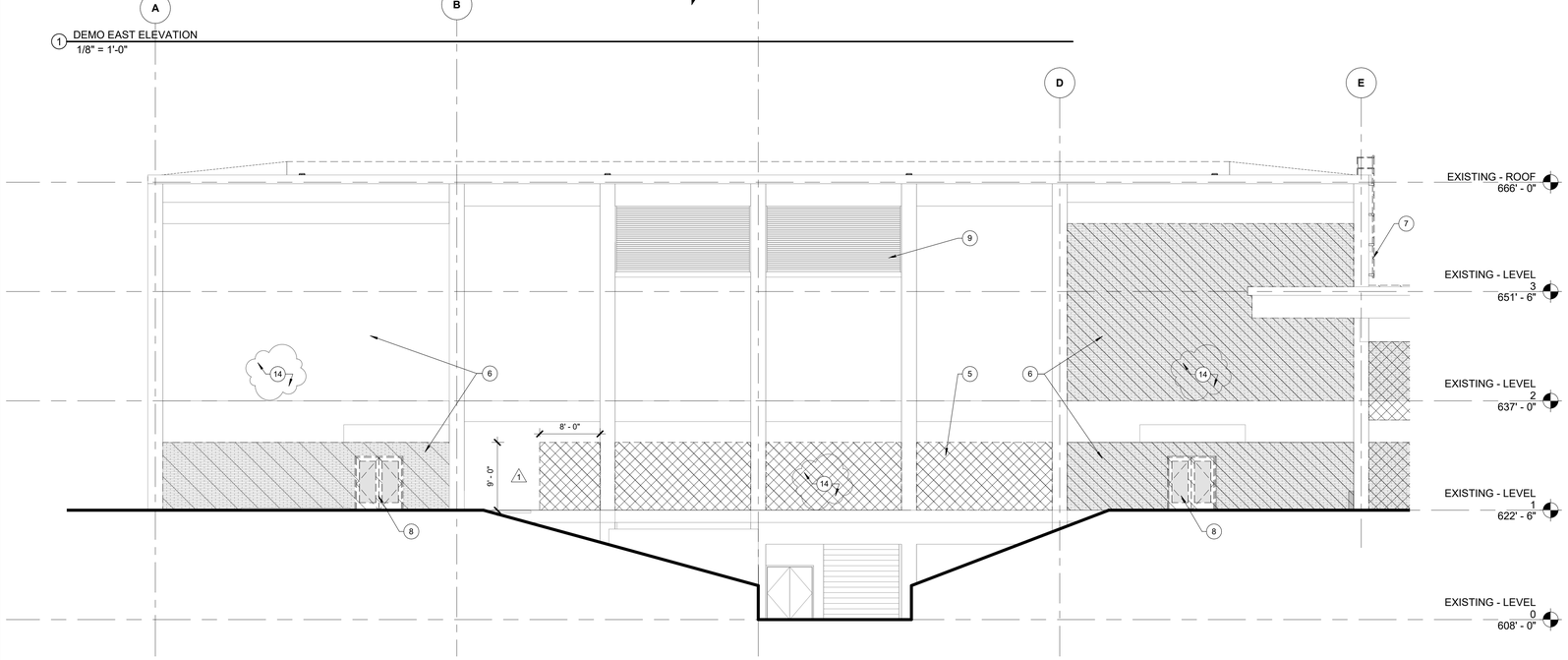
DEMO RCP - LEVEL 3 - SECTOR B

AD1.53B

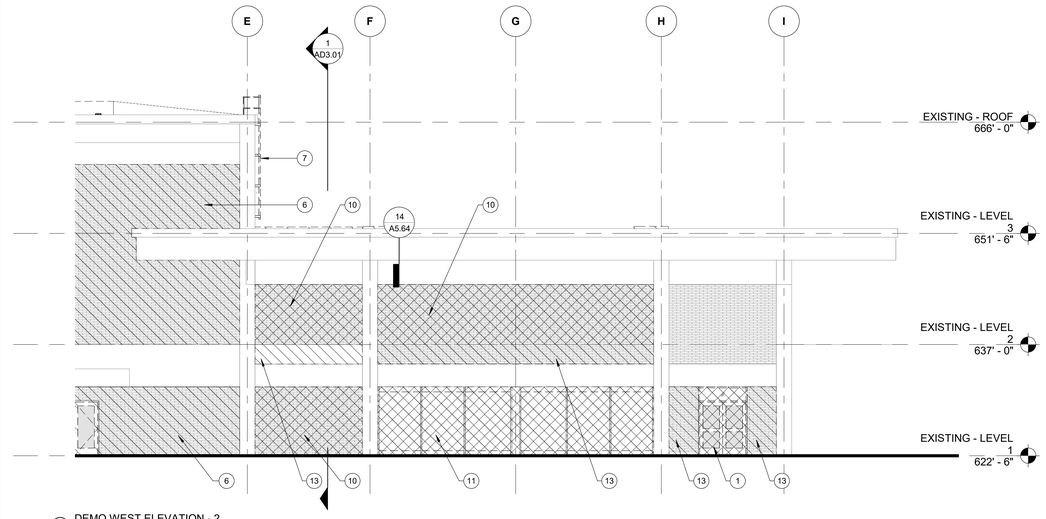
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1 DEMO EAST ELEVATION
1/8" = 1'-0"



2 DEMO WEST ELEVATION - 1
1/8" = 1'-0"



3 DEMO WEST ELEVATION - 2
1/8" = 1'-0"

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DEMOLITION ELEVATIONS LEGEND

- EXISTING TO REMAIN
- EXISTING TO BE DEMOLISHED
- EXISTING TO BE DEMOLISHED
- EXISTING FINISH TO BE DEMOLISHED
- NOT IN SCOPE

KEYNOTES - AD2.02

1 REMOVE EXISTING STOREFRONT.

2 REMOVE VERTICAL CONCRETE FINS.

3 REMOVE PORTION OF CONCRETE BEAM BELOW STOREFRONT TO ALLOW FOR NEW OPENING.

4 EXISTING VERTICAL FINS AND BEAM BELOW TO REMAIN.

5 REMOVE PORTION OF CONCRETE WALL AND PREPARE OPENING FOR NEW STOREFRONT

6 REMOVE BRICK VENEER AND PREPARE SURFACES TO RECEIVE SHOTCRETE. SALVAGE BRICK VENEER TO BE REINSTALLED AT LOCATIONS INDICATED. ANTICIPATE LOSS OF BRICK DUE TO DAMAGE/FAILURE AND INCLUDE OVERAGE IN QUANTITY OF EXISTING BRICK VENEER SALVAGED.

7 REMOVE EXISTING ROOF ACCESS LADDER

2 8 EXISTING DOORS TO BE REMOVED

9 EXISTING LOUVERS TO REMAIN.

10 REMOVE PORTION OF WALL, INCLUDING BRICK VENEER, TO THE EXTENT SHOWN.

11 REMOVE OPERABLE GLASS OVERHEAD DOORS.

12 REMOVE EXISTING TUBE STEEL GUARDRAIL, TYP.

13 REMOVE BRICK VENEER.

2 14 SEE OSP FOR MORE INFORMATION ON SEQUENCING CONSTRUCTION WORK AND PROVIDING PROTECTION FOR PATH OF EGRESS FROM THE BUILDING

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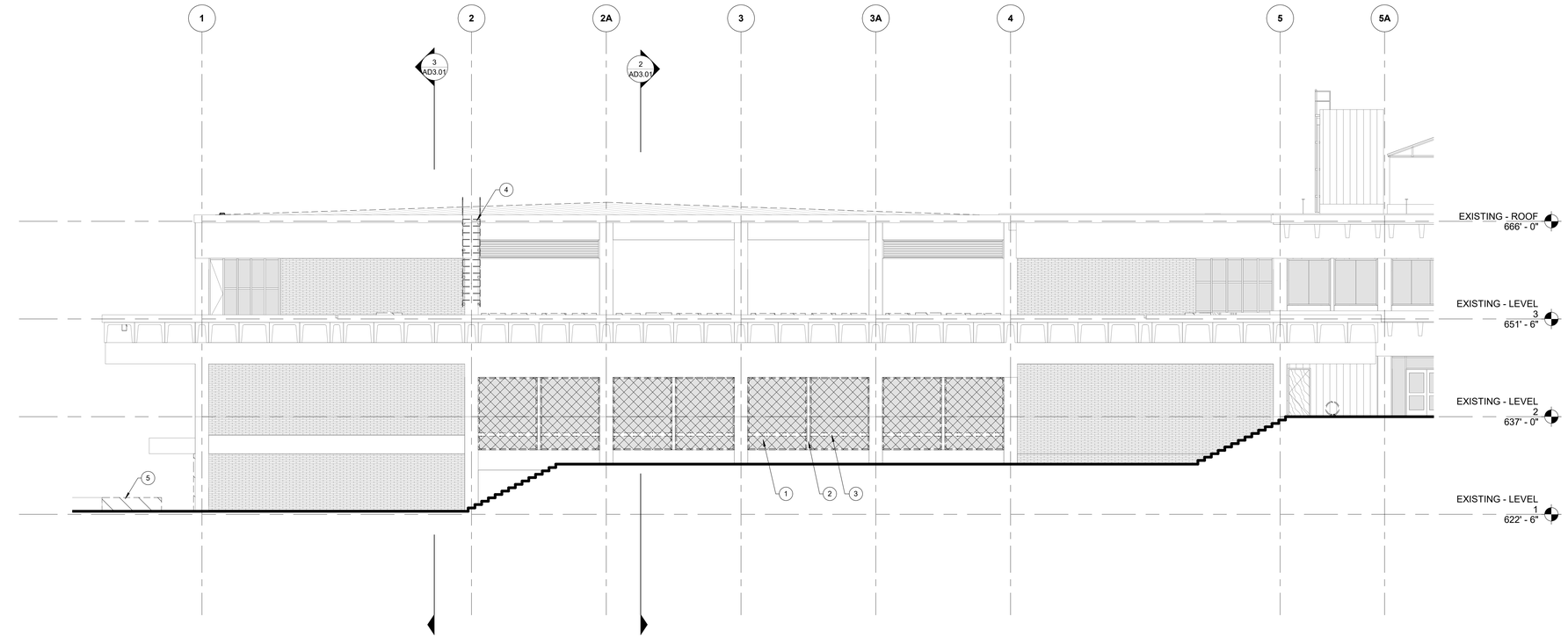
Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24
2	Revision 2	07-10-24

DEMO ELEVATIONS - EXTERIOR

AD2.02

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1 DEMO SOUTH ELEVATION
1/8" = 1'-0"

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- EXISTING TO BE DEMOLISHED
- EXISTING TO BE DEMOLISHED
- EXISTING FINISH TO BE DEMOLISHED
- NOT IN SCOPE

KEYNOTES - AD2.03

1 REMOVE EXISTING STORE FRONT, TYP.

2 EXISTING CONCRETE VERTICAL FIN AND BEAM BELOW TO REMAIN, TYP.

3 REMOVE EXISTING GUARDRAIL, TYP.

4 REMOVE EXISTING ROOF ACCESS LADDER

5 REMOVE PORTION OF CONCRETE SITE WALL, SEE LANDSCAPE DRAWINGS FOR MORE INFORMATION.

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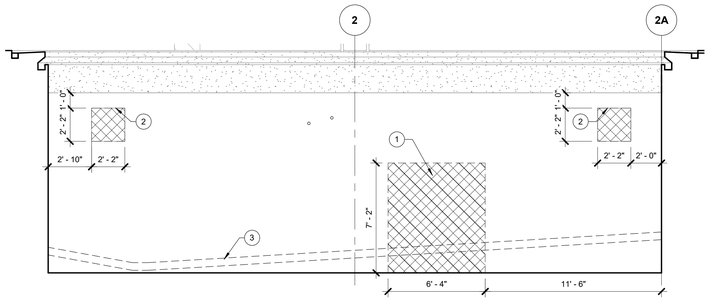
Revisions

NO.	DESCRIPTION	DATE

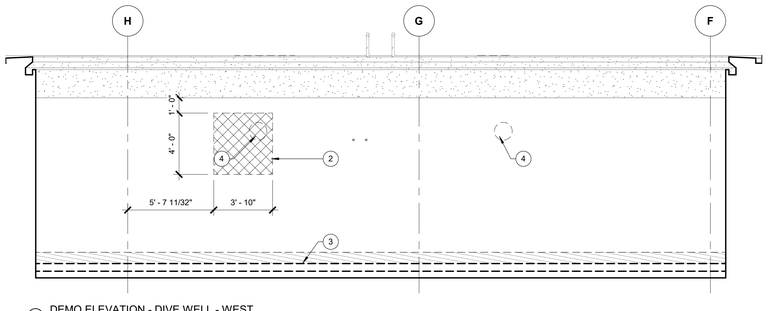
DEMO ELEVATIONS - EXTERIOR

AD2.03

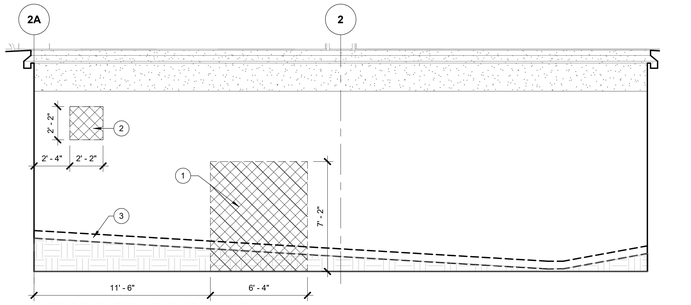
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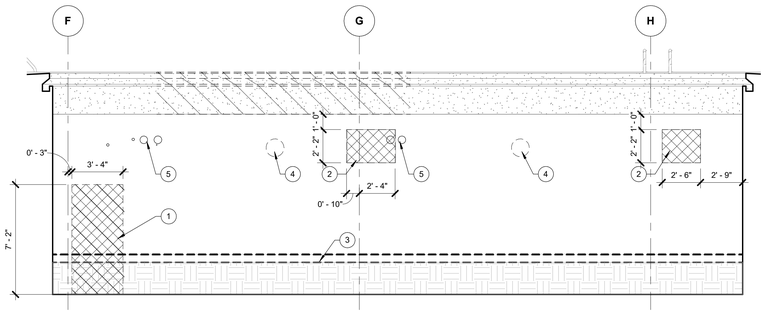
1 DEMO ELEVATION - DIVE WELL - NORTH
1/4" = 1'-0"



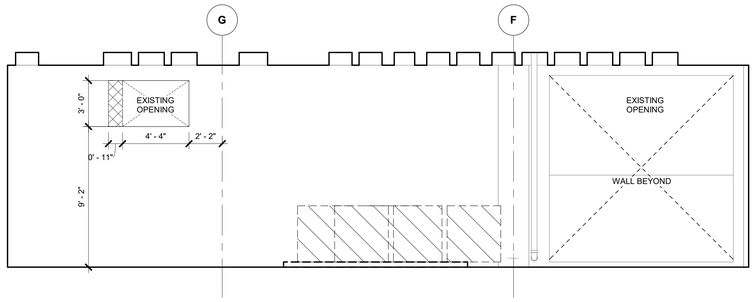
4 DEMO ELEVATION - DIVE WELL - WEST
1/4" = 1'-0"



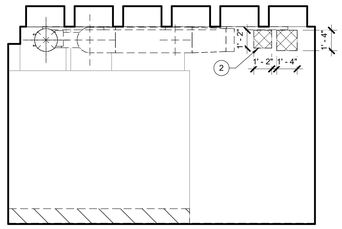
3 DEMO ELEVATION - DIVE WELL - SOUTH
1/4" = 1'-0"



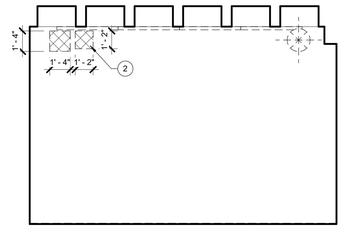
2 DEMO ELEVATION - DIVE WELL - EAST
1/4" = 1'-0"



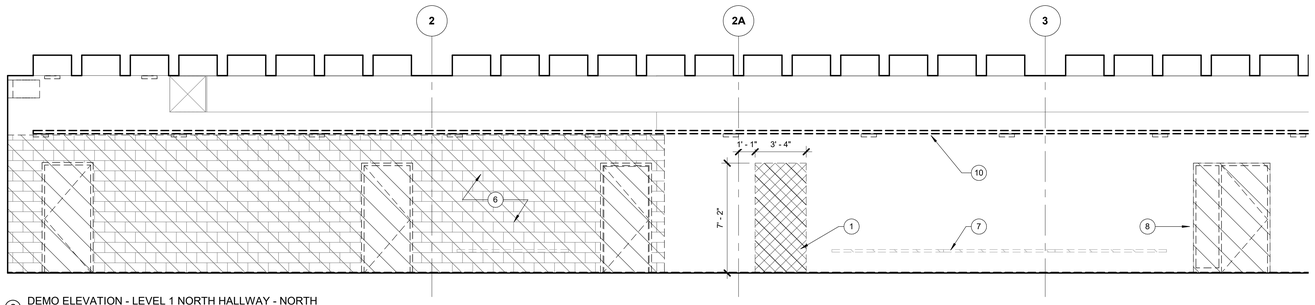
5 DEMO ELEVATION - BASEMENT EQUIPMENT M0-6 - WEST
1/4" = 1'-0"



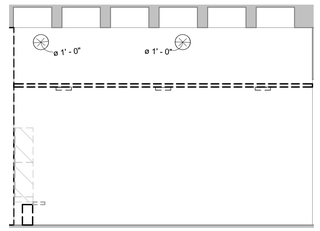
12 DEMO ELEVATION - FITNESS ROOM - EAST
1" = 1'-0"



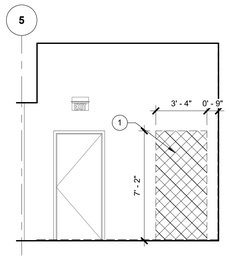
13 DEMO ELEVATION - FITNESS ROOM - WEST
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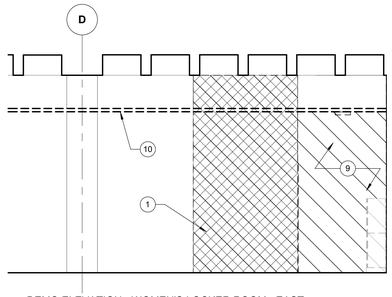
6 DEMO ELEVATION - LEVEL 1 NORTH HALLWAY - NORTH
1/4" = 1'-0"



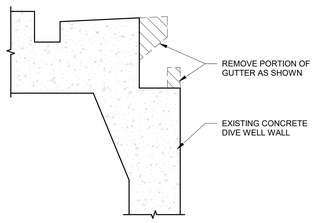
14 DEMO ELEVATION - WOMEN'S STAFF LOCKER - EAST
1/4" = 1'-0"



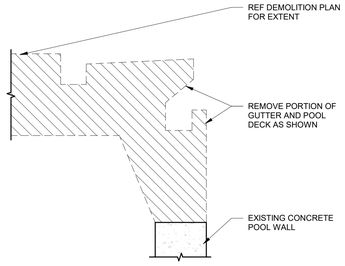
7 DEMO ELEVATION - LEVEL 1 SE HALLWAY - SOUTH
1/4" = 1'-0"



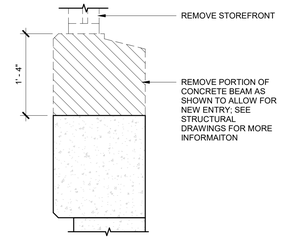
8 DEMO ELEVATION - WOMEN'S LOCKER ROOM - EAST
1/4" = 1'-0"



9 DEMO DETAIL AT DIVE POOL EDGE
1" = 1'-0"



10 DEMO DETAIL AT DIVE POOL EDGE AND SHAFTS
1" = 1'-0"



11 DEMO DETAIL AT EAST STOREFRONT
1" = 1'-0"

DEMOLITION NOTES

1. THE PURPOSE OF THE DEMOLITION DRAWINGS ARE TO OUTLINE A GENERAL DIRECTION OF WHAT NEEDS TO BE REMOVED TO ACCOMPLISH THE WORK. WORK SHOWN IS DIAGRAMMATIC IN NATURE AND NOT INTENDED TO BE ALL INCLUSIVE. CONTRACTOR TO VERIFY EXISTING CONDITIONS BEFORE BIDDING AND INCLUDE ALL WORK EVIDENT BY SITE INSPECTION, WHETHER OR NOT SHOWN ON DRAWINGS, TO ACHIEVE DESIRED RESULTS INDICATED ON DOCUMENTS FOR COMPLETE WORK.
2. COORDINATE PHASING OF DEMOLITION WORK WITH OWNER PRIOR TO COMMENCING.
3. COORDINATE PHASING OF DEMOLITION OF STRUCTURAL ELEMENTS WITH STRUCTURAL DRAWINGS AND STRUCTURAL EOR PRIOR TO STARTING WORK.
4. NOTIFY ARCHITECT IN ADVANCE OF CUTTING OR ALTERATION WHICH MAY EFFECT THE STRUCTURAL STABILITY OF ANY PORTION OF EXISTING SYSTEMS AND STRUCTURES.
5. USE DUE CARE TO MINIMIZE DAMAGE TO EXISTING WORK WHICH IS TO REMAIN. REPLACE, REPAIR, PATCH AND REPAINT AS REQUIRED.
6. PROTECT INTERIOR OF EXISTING BUILDING FROM CONSTRUCTION DUST, NOISE, AND WEATHER.
7. COORDINATE WITH OWNER AND SCHEDULE IN ADVANCE OF ANY INTERRUPTIONS OF ELECTRICAL, MECHANICAL, FIRE PROTECTION, PLUMBING, COMMUNICATION AND OTHER SERVICES, WHICH MAY AFFECT FACILITY OPERATIONS OR OTHER ADJACENT SPACES NEARBY.
8. REMOVE OR CAP CONDUIT AND PIPING FROM ABANDONED UTILITIES.
9. COORDINATE THE SALVAGE OF EQUIPMENT AND FIXTURES WITH OWNER PRIOR TO REMOVAL.
10. FIELD VERIFY ALL GIVEN DIMENSIONS.
11. IF ASBESTOS OR OTHER HAZARDOUS MATERIALS ARE OBSERVED OR SUSPECTED, IMMEDIATELY STOP WORK IN THAT AREA AND PROMPTLY NOTIFY THE OWNER/ARCHITECT. HAZARDOUS MATERIALS ARE TO BE ENCAPSULATED OR SAFELY REMOVED AND DISPOSED OF PER THE AUTHORITIES HAVING JURISDICTION.
12. REFER TO OTHER CONSULTANTS DOCUMENTS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
13. EXISTING POOLS TO BE FULLY DECOMMISSIONED. ALL EQUIPMENT ASSOCIATED WITH POOL TO BE FULLY DECOMMISSIONED AND REMOVED FROM SITE. ALL PIPING ASSOCIATED WITH POOL TO BE CUT AND CAPPED AND ALL ABOVE SLAB PIPING TO BE REMOVED UNLESS OTHERWISE INDICATED. ALL DRAINS TO BE CAPPED TO PREVENT ANY INFILTRATION INTO DRAIN PIPE. DISPOSE OF ALL MATERIAL AS REQUIRED BY AHJ.
14. REMOVE INTERIOR NON-LOAD BEARING WALL PARTITIONS AS INDICATED. EXISTING WALL PARTITIONS INCLUDE BUT ARE NOT LIMITED TO: CONCRETE BLOCK, MASONRY, STUDY FRAMING, GYPSUMBOARD AND PLASTER FINISHES, TRIM, SIGNATE, AND ALL FASTNER ANCHORS. REMOVE EXISTING WALL IN ITS ENTIRETY, INCLUDING, BUT NOT LIMITED TO DOORS, FRAMES, ELECTRICAL DEVICES, CONDUITS, RELITES, PLUMBING, SUPPLY GRILLES, ETC. TO EXTENT SHOWN ON PLANS.
15. REMOVE EXISTING FLOOR FINISHES AS INDICATED. EXISTING FLOOR FINISHES INCLUDE, BUT ARE NOT LIMITED TO, VCT, CARPET, TILE, EPOXY, AND ASSOCIATED ADHESIVES AND MORTARS.
16. REMOVE NON-LOAD BEARING CEILING ASSEMBLIES AS INDICATED. EXISTING CEILING ASSEMBLIES INCLUDE, BUT ARE NOT LIMITED TO, GYPBOARD, ACOUSTICAL PANELS, ACOUSTICAL CELING ASSEMBLIES, FRAMING, HANGERS, AND CONNECTION ANCHORS TO EXISTING STRUCTURE.
17. REMOVE INTERIOR AND EXTERIOR DOORS, FRAMES, THRESHOLDS, RELITE WINDOW FRAMES AND GLAZING AS INDICATED INLCUDING ALL FASTENERS.
18. REMOVE AND SALVAGE ALL DOOR HARDWARE FROM DOORS AND FRAMES INDICATED TO BE REMOVED, COORDINATE WITH OWNER.
19. SALVAGE ALL EXISTING IT/AV EQUIPMENT, CONTRACTOR TO COORDINATE WITH OWNER ON ITEMS THAT WILL BE REMOVED BY OWNER AND IT/AV ITEMS TO BE SALVAGED BY CONTRACTOR.
20. SALVAGE ALL REMOVED HVAC CONTROL DEVICES INCLUDING EXISTING BTU METERS, VFDs, DISCONNECTS AND HVAC CONTROLS. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION AND COORDINATE ITEMS TO BE SALVAGED WITH OWNER.

DEMOLITION ELEVATIONS LEGEND

- EXISTING TO REMAIN
- EXISTING TO BE DEMOLISHED
- EXISTING TO BE DEMOLI [illegible]
- EXISTING FINISH TO BE DEMOLISHED
- NOT IN SCOPE

KEYNOTES - AD2.51

1 REMOVE PORTION OF WALL CONCRETE WALL TO ALLOW FOR NEW OPENING.
2 REMOVE PORTION OF CONCRETE WALL AS SHOWN TO ALLOW FOR MECHANICAL DUCT.
3 REMOVE CONCRETE SLAB AT BOTTOM OF DIVE WELL. REMOVE SUBGRADE AS REQUIRED FOR NEW WORK, SEE PLAN FOR MORE INFORMATION.
4 REMOVE DIVEWELL LIGHT AND CONCRETE RECESS ON OTHER SIDE OF WALL, PATCH AND REPAIR WALL.
5 COREDRILL CONCRETE WALL AS REQUIRED FOR NEW PIPING.
6 REMOVE CMU WALL IN ITS ENTIRETY, INCLUDING ALL UTITILITES AND DOOR FRAMES.
7 REMOVE HALLWAY BENCHES, TYP.
8 REMOVE DOOR, RELITE, AND FRAMES, AND PREPARE SURFACE FOR NEW DOOR FRAME.
9 REMOVE METAL STUD FRAMED WALL IN ITS ENTIRETY.
10 REMOVE CEILING, SEE DEMO RCP.

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City of Portland
Reviewed for Code Compliance
Date: 3/21/2024
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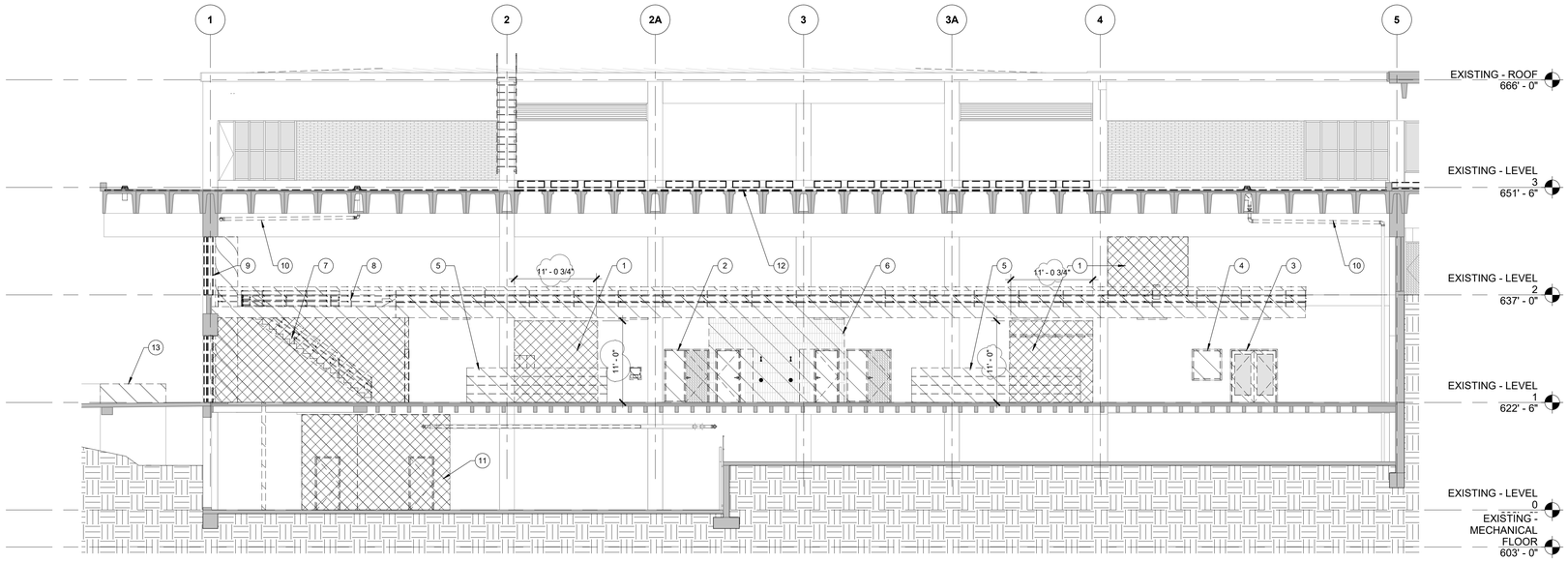
Revisions

NO.	DESCRIPTION	DATE

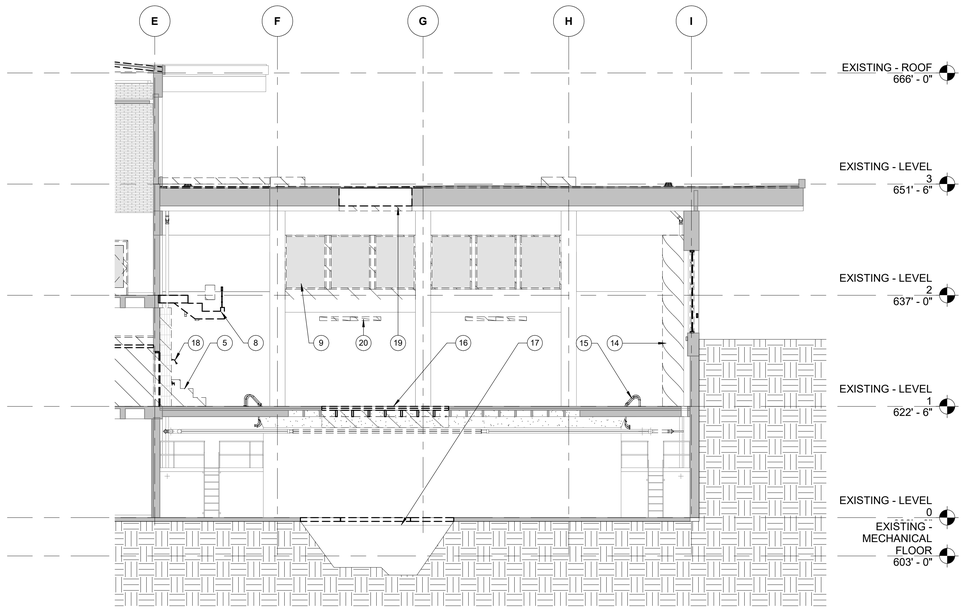
DEMO ELEVATIONS -INTERIOR

AD2.51

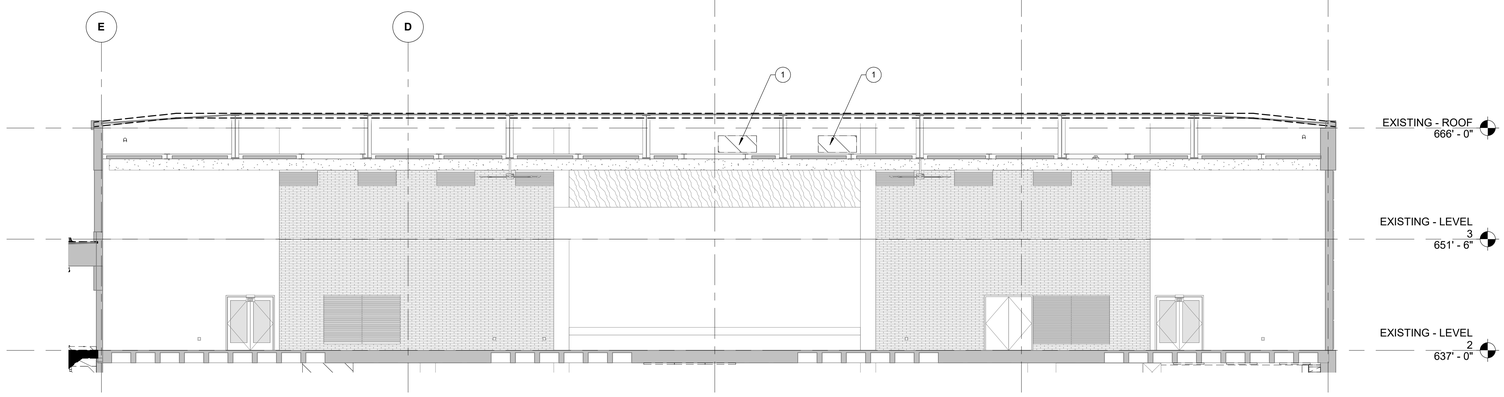
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1 DEMO BUILDING SECTION
1/8" = 1'-0"



2 DEMO SECTION AT ELEVATOR PIT
1/8" = 1'-0"



3 DEMO BUILDING SECTION AT GYMNASIUM
1/8" = 1'-0"

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DEMOLITION ELEVATIONS LEGEND

- EXISTING TO REMAIN
- EXISTING TO BE DEMOLISHED
- EXISTING TO BE DEMOLISHED
- EXISTING FINISH TO BE DEMOLISHED
- NOT IN SCOPE

KEYNOTES - AD3.01

1. REMOVE PORTION OF CONCRETE WALL TO THE EXTENT SHOWN
2. REMOVE EXISTING DOOR, FRAME AND RELITE, TYP.
3. REMOVE EXISTING DOOR AND FRAME.
4. REMOVE EXISTING WINDOW AND FRAME.
5. REMOVE CONCRETE BLEACHER IN ITS ENTIRETY, AND PREPARE FLOOR TO RECEIVE LEVELING PRODUCT.
6. REMOVE FURRING WALL IN ITS ENTIRETY.
7. REMOVE CONCRETE STAIR AND WALL ENLCOSURE IN ITS ENTIRETY INCLUDING BUT NOT LIMITED TO, TREADS, HANDRAILS, DOOR AND FRAME.
8. REMOVE CONCRETE BALCONY IN ITS ENTIRETY.
9. SEE DEMO ELEVATIONS FOR EXTENT OF EXTERIOR WALL REMOVAL.
10. SEE PLANS AND PLUMBING DEMO DRAWINGS FOR EXTENT OF ROOF DRAIN REMOVAL.
11. REMOVE METAL CLAD WALL IN ITS ENTIRETY.
12. REMOVE PORTION OF PRECAST CONCRETE T AS SHOWN, TYP. SEE ROOF PLAN AND STRUCTURAL DEMO DRAWINGS FOR ADDITIONAL INFORMATION.
13. REMOVE PORTION OF CONCRETE SITE WALL AS SHOWN, SEE LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION.
14. REMOVE DUCTWORK AND CONCRETE CURB
15. REMOVE POOL LADDERS, TYP.
16. REMOVE PORTION OF POOL DECK AND WALL BELOW AS SHOWN TO ALLOW FOR NEW ELEVATOR.
17. REMOVE PORTION SLAB ON GRADE AND EXCAVATE AS SHOWN TO ALLOW FOR NEW ELEVATOR PIT.
18. REMOVE PLUMBING FIXTURES
19. REMOVE PORTION OF CONCRETE ROOF STRUCTURE AS SHOWN. REFERENCE STRUCTURAL DRAWINGS.
20. REMOVE WALL MOUNTED LIGHT FIXTURES, TYP.

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City of Portland
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Date	07/10/24
Project No.	221000

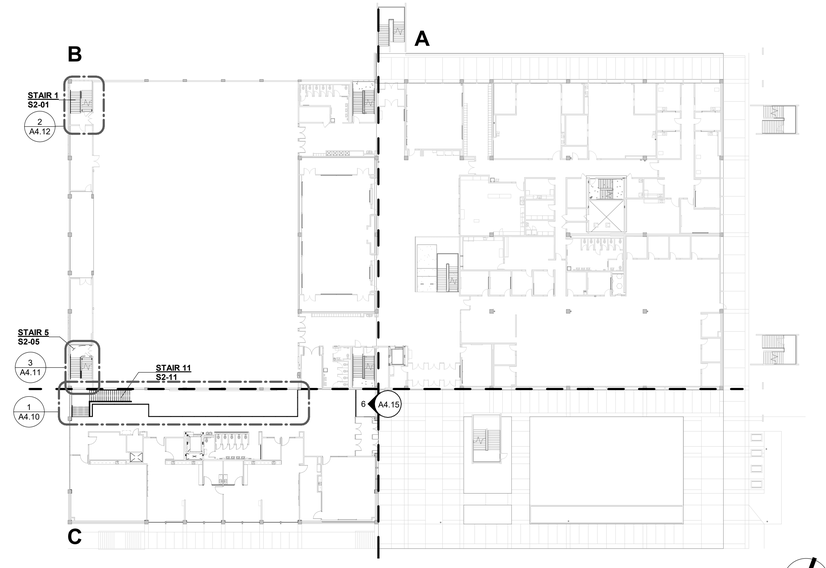
Revisions

NO.	DESCRIPTION	DATE
1	Revision 2	07-10-24

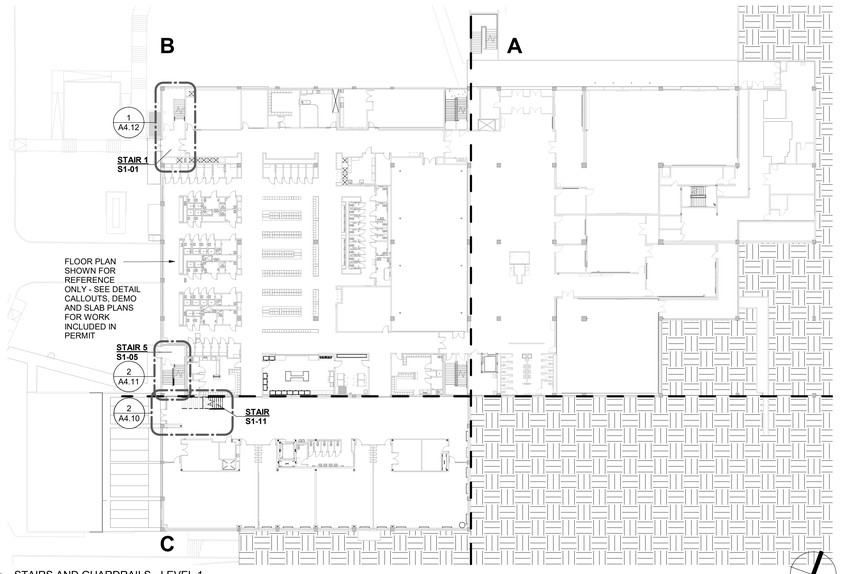
DEMO SECTIONS

AD3.01

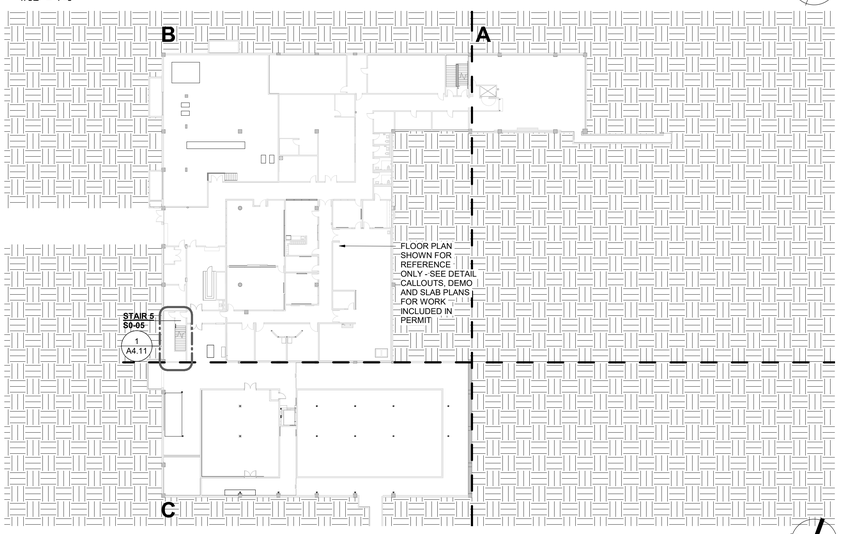
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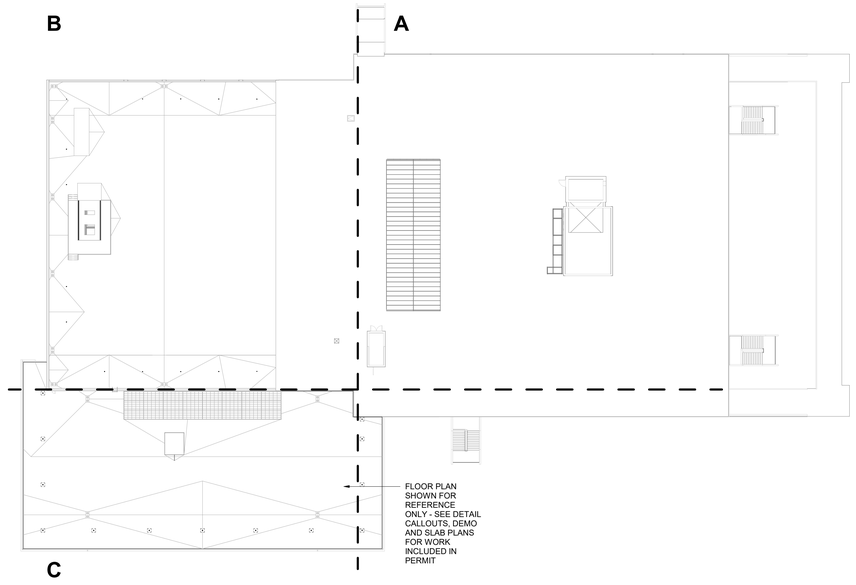
3 STAIRS AND GUARDRAILS - LEVEL 2
1/32" = 1'-0"



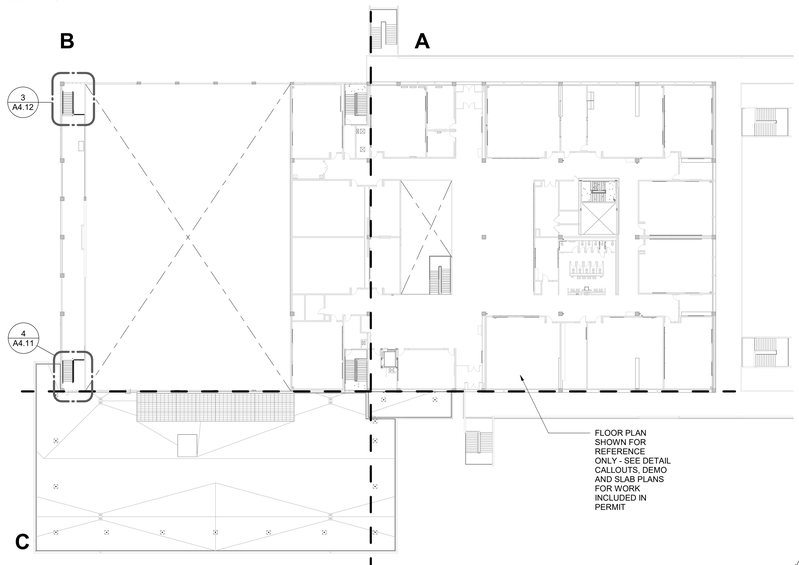
2 STAIRS AND GUARDRAILS - LEVEL 1
1/32" = 1'-0"



1 STAIRS AND GUARDRAILS - BASEMENT LEVEL
1/32" = 1'-0"



5 STAIR AND GUARDRAILS PLAN - ROOF
1/32" = 1'-0"



4 STAIRS AND GUARDRAILS - LEVEL 3
1/32" = 1'-0"

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Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24

1 STAIR AND GUARDRAIL PLANS

AG1.00

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1 BASEMENT - SECTOR B - SLAB PLAN
1/8" = 1'-0"

0 4 8 16'

SLAB PLAN NOTES

1. REFER TO ASSEMBLY SHEETS FOR FLOOR ASSEMBLIES AND FIRE-RATED CONSTRUCTION.
2. ELEVATIONS ARE TO TOP OF SLAB.
3. SEE CIVIL AND LANDSCAPE FOR EXTERIOR CONCRETE, U.N.O.
4. SEE STRUCTURAL FOR MORE INFORMATION.
5. CONTRACTOR TO PROVIDE COORDINATION DRAWINGS FOR ALL SLAB PENETRATIONS.

SLAB PLAN LEGEND

- (E) SLAB
- (N) SLAB/(N) CURB
- (N) INFILL AT EXISTING SLAB
- (N) CONCRETE TOPPING
- STEP IN SLAB
- NOT IN ARCHITECTURAL SCOPE
- SITE CONCRETE
- (E) FOOTING

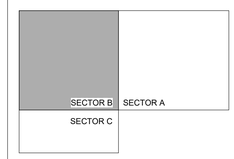
KEYNOTES - AS1.00B

1 INFILL SLAB OPENINGS IN EXISTING CONCRETE DECK; REFERENCE STRUCTURAL DRAWINGS.

2 HOUSEKEEPING PAD. COORDINATE SIZE WITH FINAL SELECTED EQUIPMENT.

1 3 APPROXIMATE EXTENT OF SLAB ON GRADE TO BE REMOVED AND REPLACED PER PLUMBING CONSTRUCTION.

KEY PLAN



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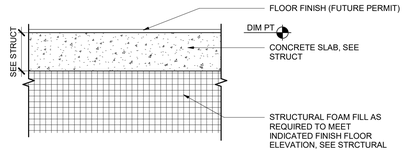
Revisions

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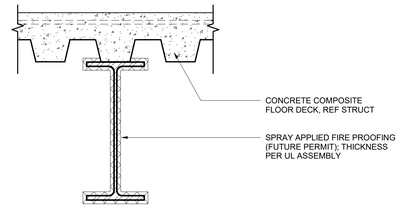
SLAB PLAN - BASEMENT - SECTOR B

AS1.00B

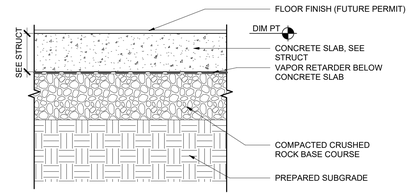
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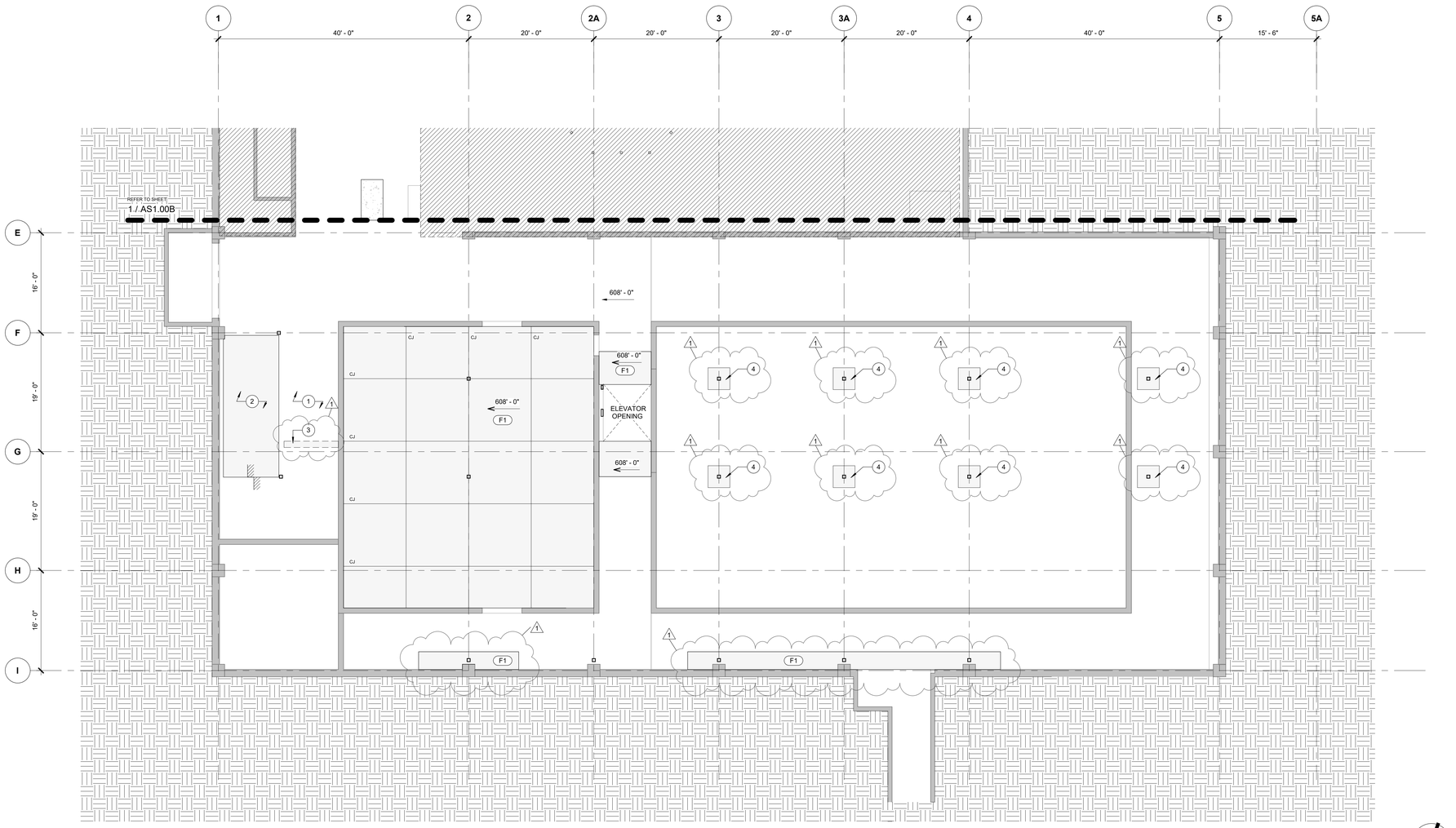
4 TYPE F3 - INTERIOR SLAB ON GEOFOAM
1 1/2" = 1'-0"



3 TYPE F2 - CONCRETE COMPOSITE DECK
1 1/2" = 1'-0"



2 TYPE F1 - INTERIOR SLAB ON GRADE
1 1/2" = 1'-0"



1 BASEMENT - SECTOR C - SLAB PLAN
1/8" = 1'-0"

0 4 8 16'

SLAB PLAN NOTES

1. REFER TO ASSEMBLY SHEETS FOR FLOOR ASSEMBLIES AND FIRE-RATED CONSTRUCTION.
2. ELEVATIONS ARE TO TOP OF SLAB.
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SLAB PLAN LEGEND

- (E) SLAB
- (N) SLAB/(N) CURB
- (N) INFILL AT EXISTING SLAB
- (N) CONCRETE TOPPING
- STEP IN SLAB
- NOT IN ARCHITECTURAL SCOPE
- SITE CONCRETE
- (E) FOOTING

KEYNOTES - AS1.00C

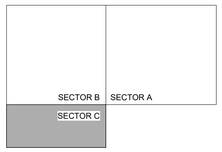
1 PATCH AND REPAIR FLOOR AS REQUIRED FROM DEMOLISHED HOUSEKEEPING PADS.

2 HOUSEKEEPING PAD. COORDINATE SIZE WITH FINAL SELECTED EQUIPMENT.

3 APPROXIMATE EXTENT OF SLAB ON GRADE TO BE REMOVED AND REPLACED PER PLUMBING CONSTRUCTION.

4 APPROXIMATE EXTENT OF NEW PILE CAP; REF STRUCT

KEY PLAN



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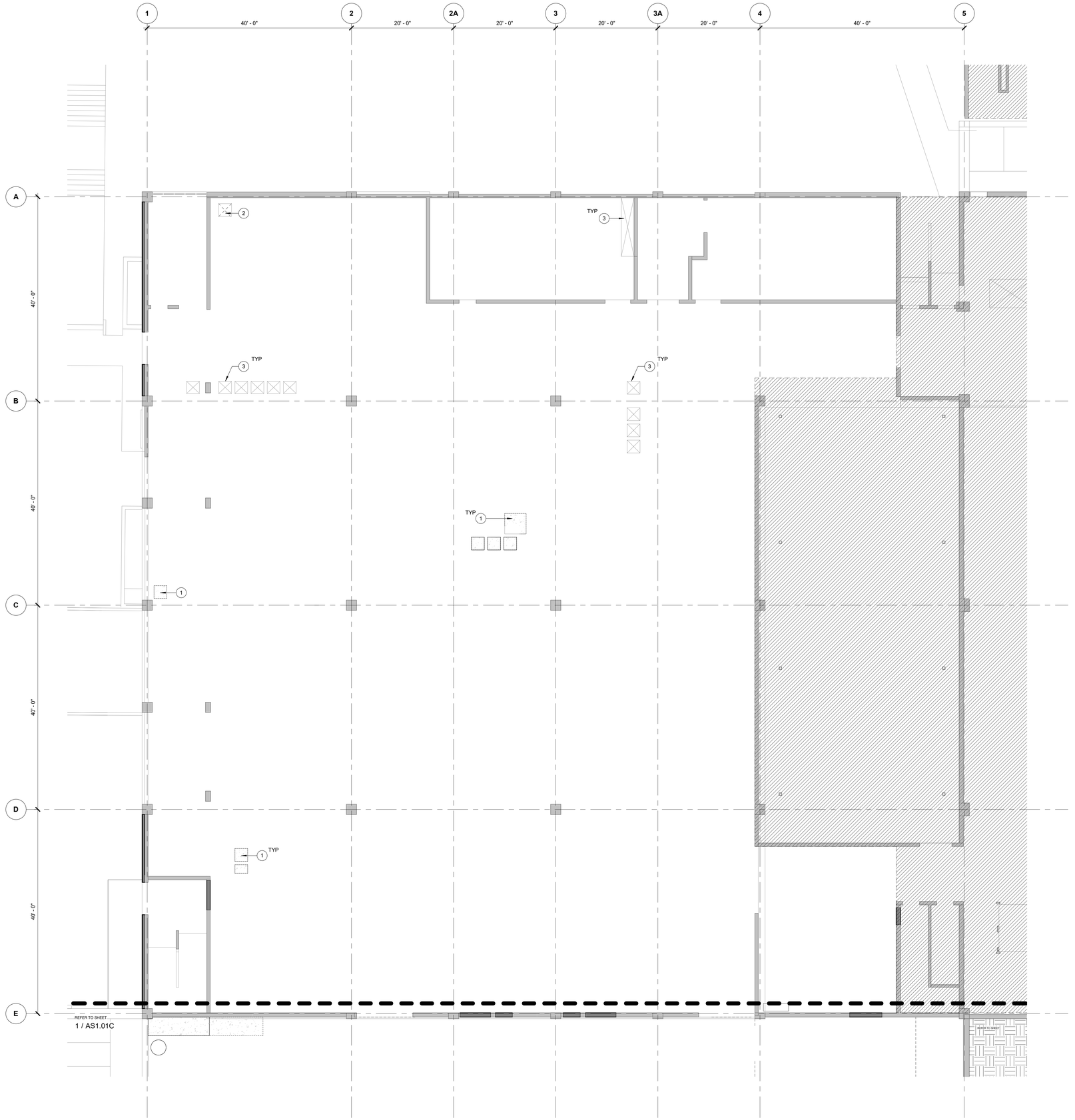
Revisions

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1	Revision 1	05-24-24

SLAB PLAN - BASEMENT - SECTOR C

AS1.00C

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1 LEVEL 1 - SECTOR B - SLAB PLAN
1/8" = 1'-0"

0 4 8 16'

SLAB PLAN NOTES

1. REFER TO ASSEMBLY SHEETS FOR FLOOR ASSEMBLIES AND FIRE-RATED CONSTRUCTION.
2. ELEVATIONS ARE TO TOP OF SLAB.
3. SEE CIVIL AND LANDSCAPE FOR EXTERIOR CONCRETE, U.N.O.
4. SEE STRUCTURAL FOR MORE INFORMATION.
5. CONTRACTOR TO PROVIDE COORDINATION DRAWINGS FOR ALL SLAB PENETRATIONS.

SLAB PLAN LEGEND

- (E) SLAB
- (N) SLAB/(N) CURB
- (N) INFILL AT EXISTING SLAB
- (N) CONCRETE TOPPING
- STEP IN SLAB
- NOT IN ARCHITECTURAL SCOPE
- SITE CONCRETE
- (E) FOOTING

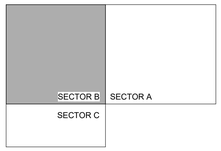
KEYNOTES - AS1.01B

1 INFILL SLAB OPENINGS IN EXISTING CONCRETE DECK; REFERENCE STRUCTURAL DRAWINGS.

2 SLAB OPENING FOR MECHANICAL; COORDINATE LOCATION IN FIELD WITH EXISTING WAFFLE SLAB BELOW; REFERENCE STRUCTURAL AND MECHANICAL DRAWINGS FOR MORE INFORMATION.

3 EXISTING SLAB OPENINGS.

KEY PLAN



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City of Portland
Reviewed for Code Compliance
Date: 8/21/2024
Permit #: 24-020319-STR-01-CO

Portland Community College
12000 SW 49th Ave.
Portland, Oregon
97219

PCC SY-HT Building West Side Renovation
12000 SW 49th Ave.
Portland, Oregon 97219

Date	02/23/24
Project No.	221000

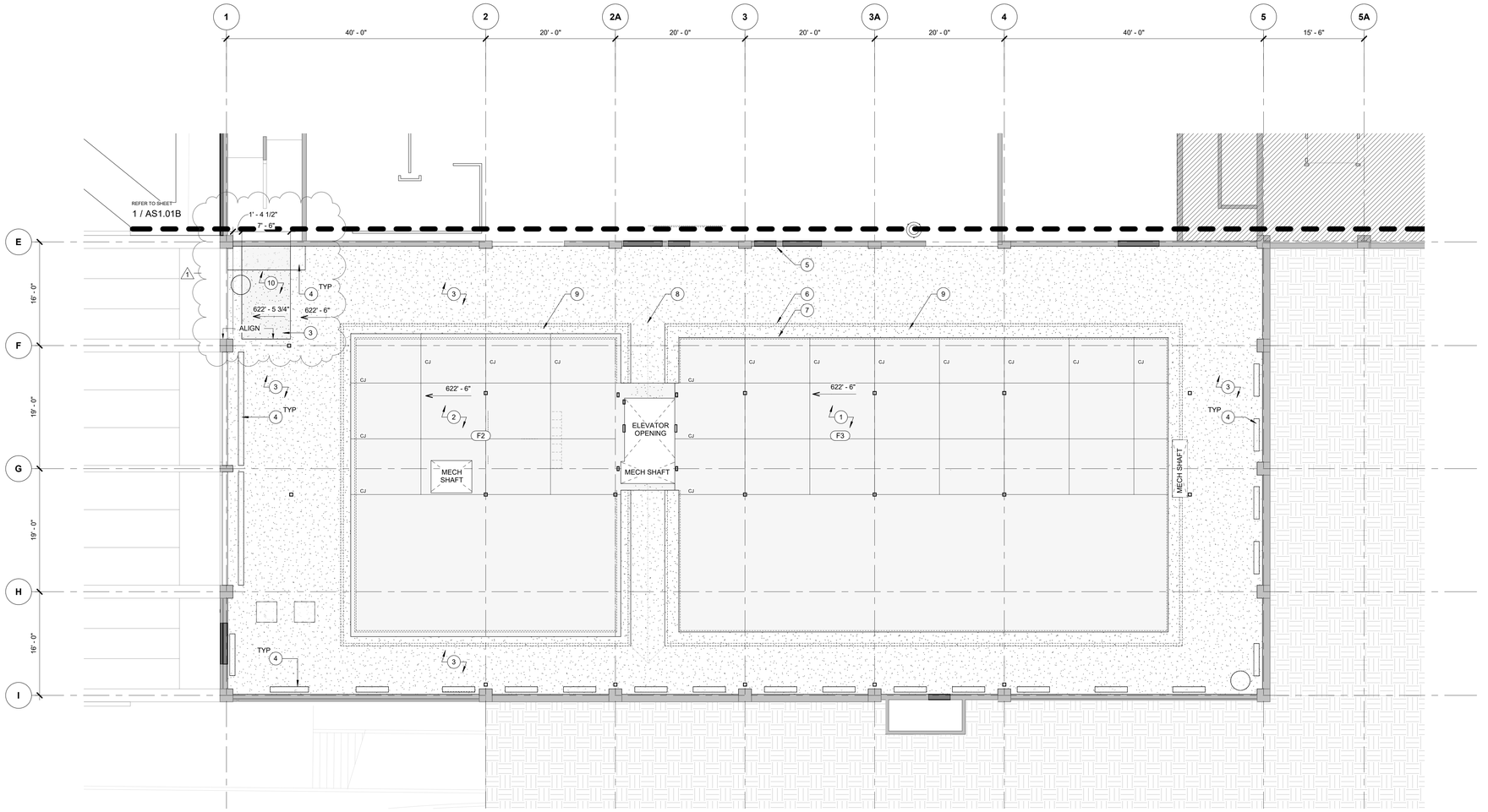
Revisions

NO.	DESCRIPTION	DATE

SLAB PLAN - LEVEL 1 - SECTOR B

AS1.01B

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1 LEVEL 1 - SLAB PLAN - SECTOR C
1/8" = 1'-0"

0 4 8 16'

SLAB PLAN NOTES

1. REFER TO ASSEMBLY SHEETS FOR FLOOR ASSEMBLIES AND FIRE-RATED CONSTRUCTION.
2. ELEVATIONS ARE TO TOP OF SLAB.
3. SEE CIVIL AND LANDSCAPE FOR EXTERIOR CONCRETE, U.N.O.
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SLAB PLAN LEGEND

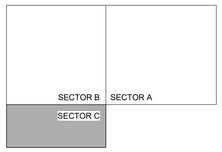
- (E) SLAB
- (N) SLAB/(N) CURB
- (N) INFILL AT EXISTING SLAB
- (N) CONCRETE TOPPING
- STEP IN SLAB
- NOT IN ARCHITECTURAL SCOPE
- SITE CONCRETE
- (E) FOOTING

KEYNOTES - AS1.01C

1 NEW CONC SLAB ON GEOFOAM FILL; REFERENCE STRUCTURAL DRAWINGS.
2 NEW CONC SLAB ON METAL DECK; REFERENCE STRUCTURAL DRAWINGS.
3 CONCRETE TOPPING TO LEVEL EXISTING POOL DECK.
4 INFILL SLAB OPENINGS IN EXISTING CONCRETE DECK; REFERENCE STRUCTURAL DRAWINGS.
5 (E) ELEV: 622'-6" AT ALL PERIMETER WALLS
6 (E) ELEV: 622'-4" AT CONTINUOUS GUTTER
7 (E) ELEV: 622'-5" AT POOL EDGE
8 (E) ELEV: 622'-4 1/2" AT HIGH POINT
9 EXISTING POOL EDGE AND CONTINUOUS GUTTER; REFERENCE STRUCTURAL DRAWINGS AND DETAILS FOR MORE INFORMATION.
10 1/4" RECESS FOR WOM

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KEY PLAN



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Revisions

NO.	DESCRIPTION	DATE
1	Revision 2	07-10-24

SLAB PLAN - LEVEL 1 - SECTOR C

AS1.01C

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1 LEVEL 2 - SECTOR B - SLAB PLAN
1/8" = 1'-0"

0 4 8 16'

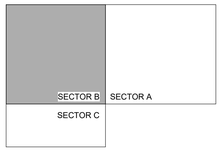
SLAB PLAN NOTES

1. REFER TO ASSEMBLY SHEETS FOR FLOOR ASSEMBLIES AND FIRE-RATED CONSTRUCTION.
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4. SEE STRUCTURAL FOR MORE INFORMATION.
5. CONTRACTOR TO PROVIDE COORDINATION DRAWINGS FOR ALL SLAB PENETRATIONS.

SLAB PLAN LEGEND

- (E) SLAB
- (N) SLAB/(N) CURB
- (N) INFILL AT EXISTING SLAB
- (N) CONCRETE TOPPING
- STEP IN SLAB
- NOT IN ARCHITECTURAL SCOPE
- SITE CONCRETE
- (E) FOOTING

KEY PLAN



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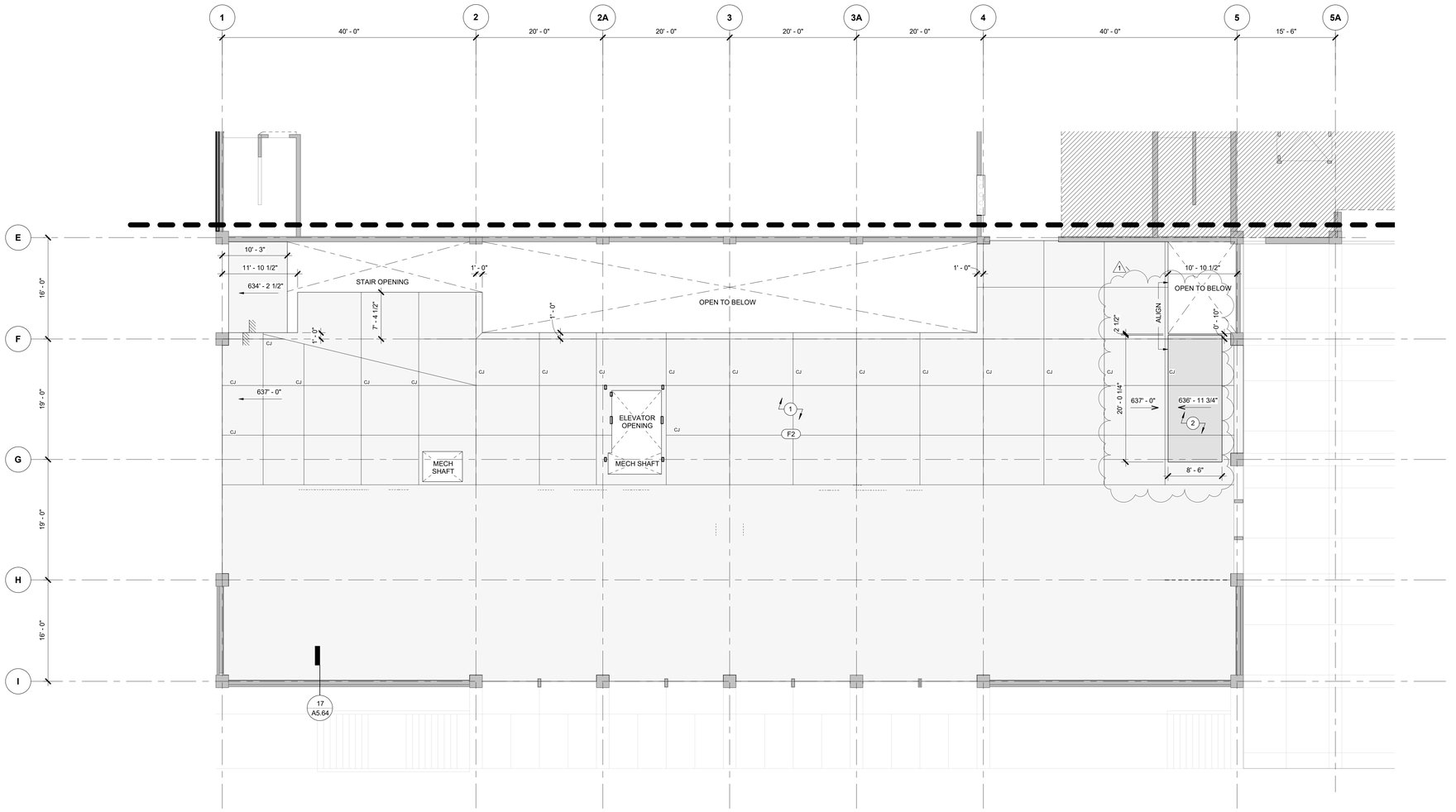
Revisions

NO.	DESCRIPTION	DATE

SLAB PLAN - LEVEL 2 - SECTOR B

AS1.02B

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1 LEVEL 2 - SECTOR C - SLAB PLAN
1/8" = 1'-0"

0 4 8 16'

SLAB PLAN NOTES

1. REFER TO ASSEMBLY SHEETS FOR FLOOR ASSEMBLIES AND FIRE-RATED CONSTRUCTION.
2. ELEVATIONS ARE TO TOP OF SLAB.
3. SEE CIVIL AND LANDSCAPE FOR EXTERIOR CONCRETE, U.N.O.
4. SEE STRUCTURAL FOR MORE INFORMATION.
5. CONTRACTOR TO PROVIDE COORDINATION DRAWINGS FOR ALL SLAB PENETRATIONS.

SLAB PLAN LEGEND

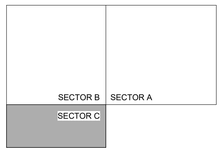
- (E) SLAB
- (N) SLAB/(N) CURB
- (N) INFILL AT EXISTING SLAB
- (N) CONCRETE TOPPING
- STEP IN SLAB
- NOT IN ARCHITECTURAL SCOPE
- SITE CONCRETE
- (E) FOOTING

KEYNOTES - AS1.02C

1 NEW CONC SLAB ON METAL DECK; REFERENCE STRUCTURAL DRAWINGS.

2 1/4" RECESS FOR WOM

KEY PLAN



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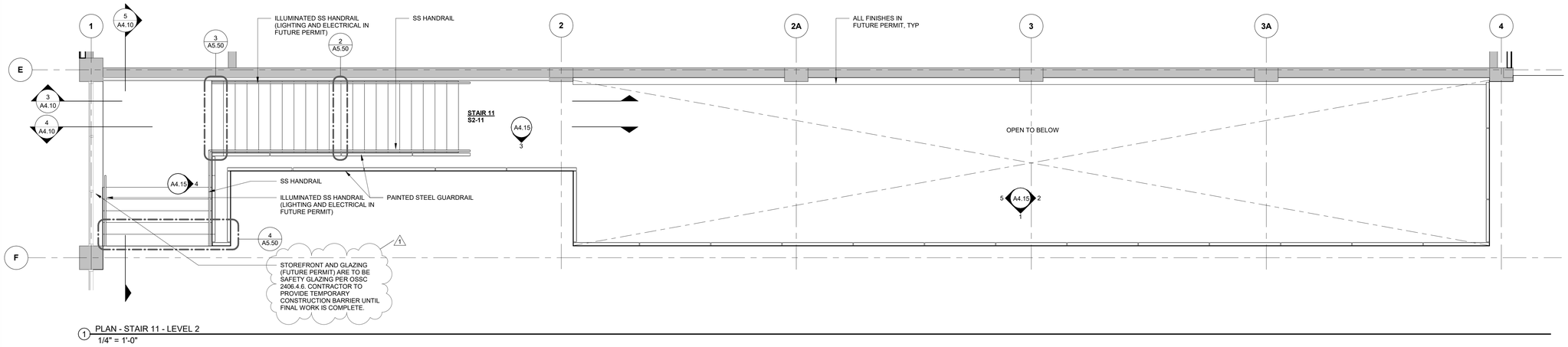
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NO.	DESCRIPTION	DATE
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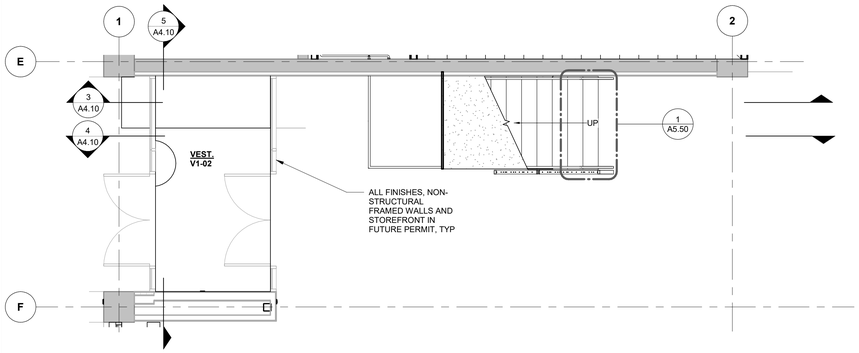
SLAB PLAN - LEVEL 2 - SECTOR C

AS1.02C

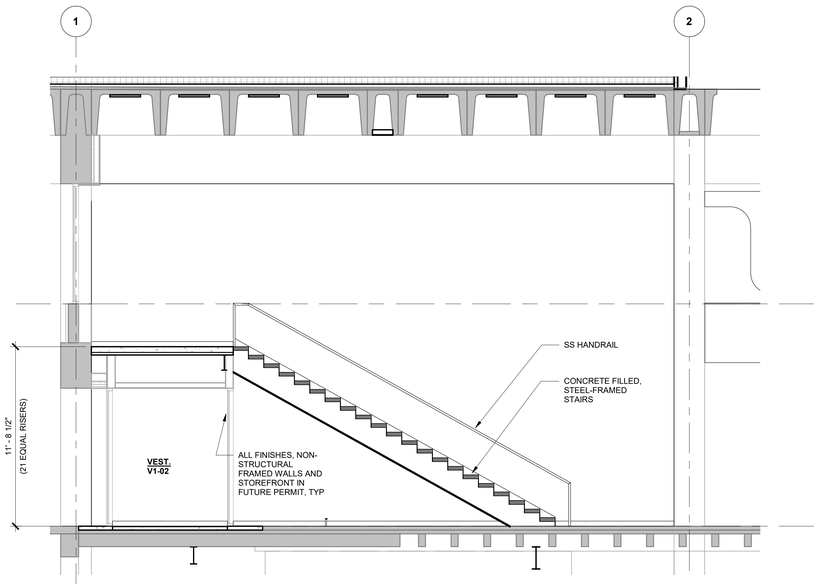
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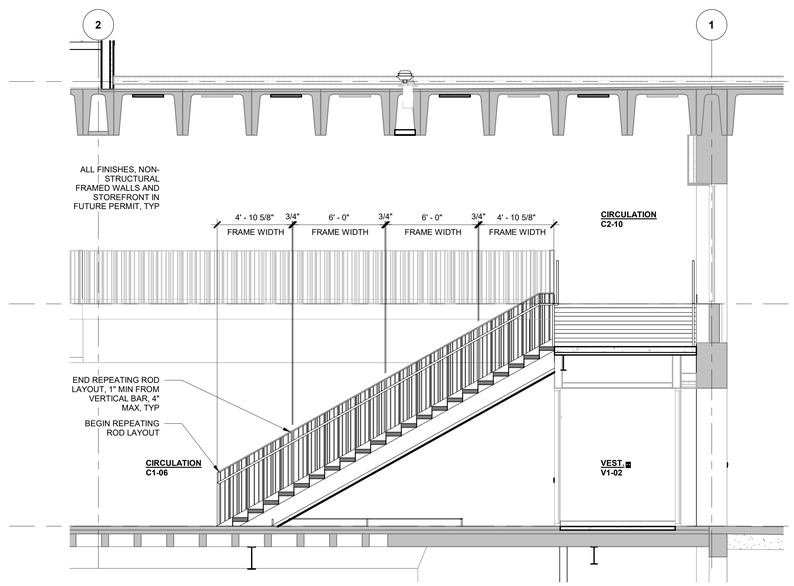
1 PLAN - STAIR 11 - LEVEL 2
1/4" = 1'-0"



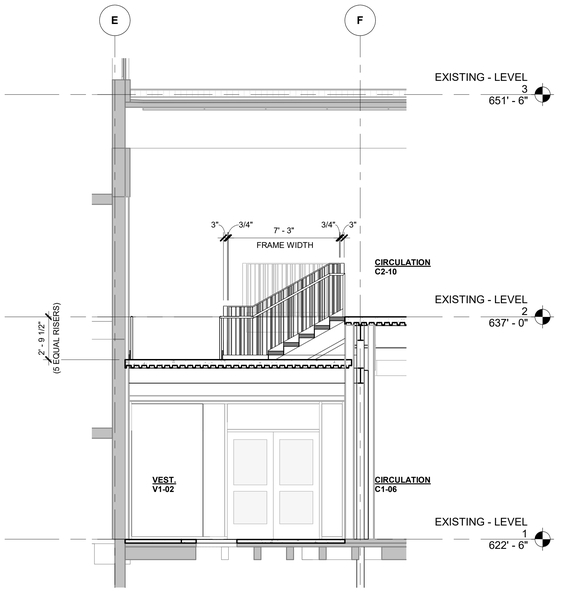
2 PLAN - STAIR 11 - LEVEL 1
1/4" = 1'-0"



3 SECTION 1 - STAIR 11
1/4" = 1'-0"



4 SECTION 2 - STAIR 11
1/4" = 1'-0"



5 SECTION 3 - STAIR 11
1/4" = 1'-0"

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Portland, Oregon 97219

Date	07/10/24
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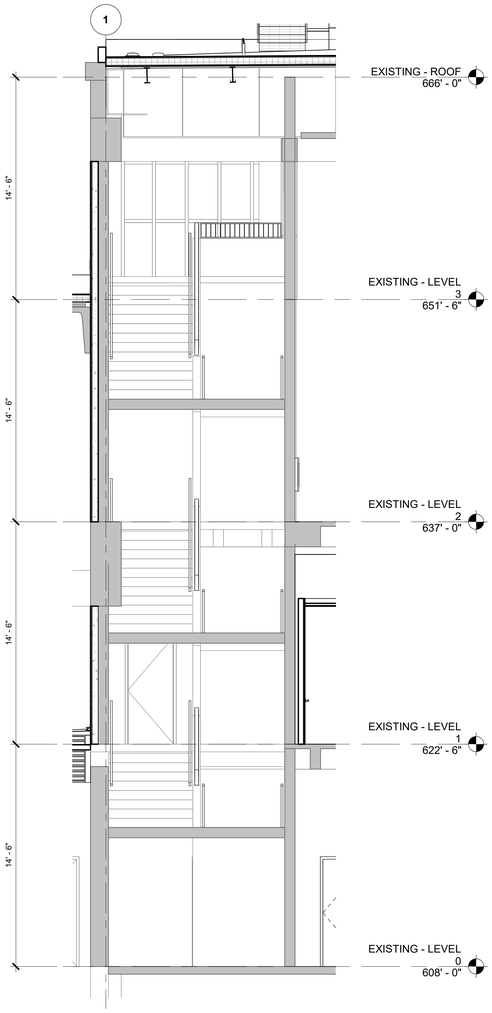
Revisions

NO.	DESCRIPTION	DATE
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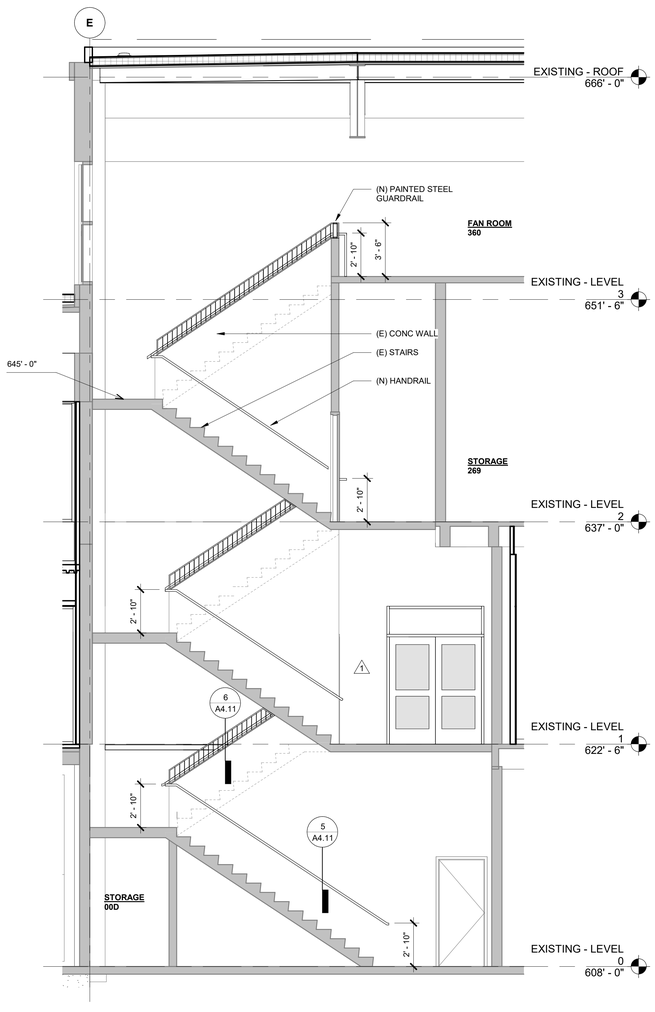
VERTICAL CIRCULATION - STAIRS

A4.10

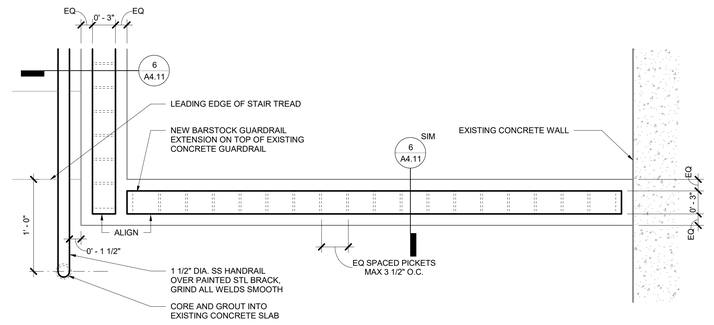
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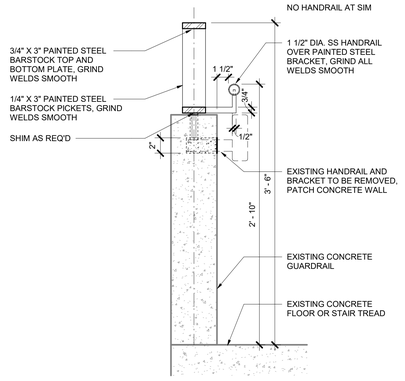
9 SECTION - STAIR 5 LANDINGS
1/4" = 1'-0"



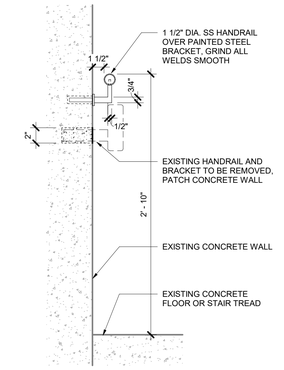
8 SECTION - STAIR 5
1/4" = 1'-0"



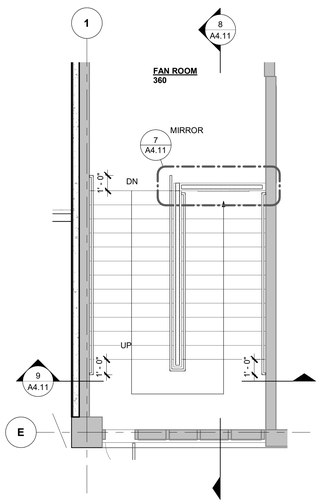
7 PLAN DETAIL - NEW GUARDRAIL AT (E) STAIR
1 1/2" = 1'-0"



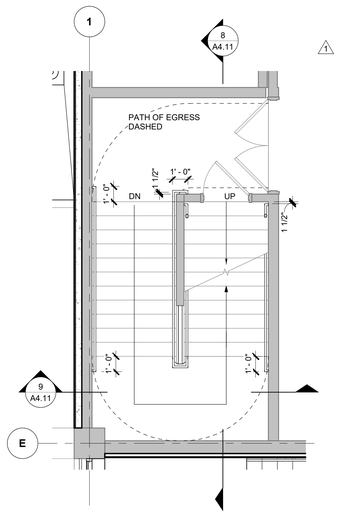
6 SECTION DETAIL - NEW GUARDRAIL AT (E) STAIR
1 1/2" = 1'-0"



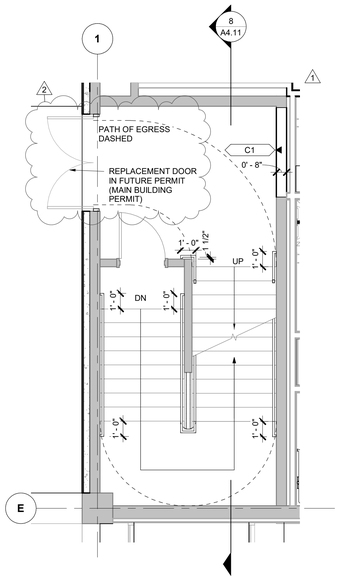
5 SECTION DETAIL - NEW HANDRAIL AT (E) STAIR
1 1/2" = 1'-0"



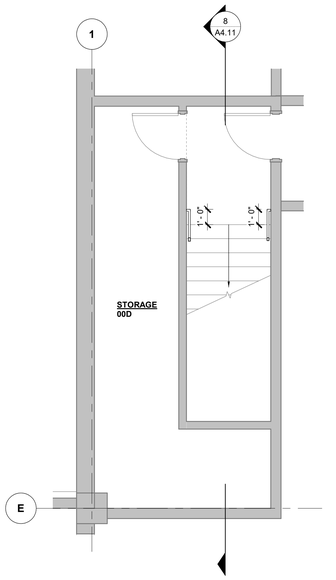
4 PLAN - STAIR 5 - LEVEL 3
1/4" = 1'-0"



3 PLAN - STAIR 5 - LEVEL 2
1/4" = 1'-0"



2 PLAN - STAIR 5 - LEVEL 1
1/4" = 1'-0"



1 PLAN - STAIR 5 - LEVEL 0
1/4" = 1'-0"

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City of Portland
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97219

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Date 07/10/24
Project No. 221000

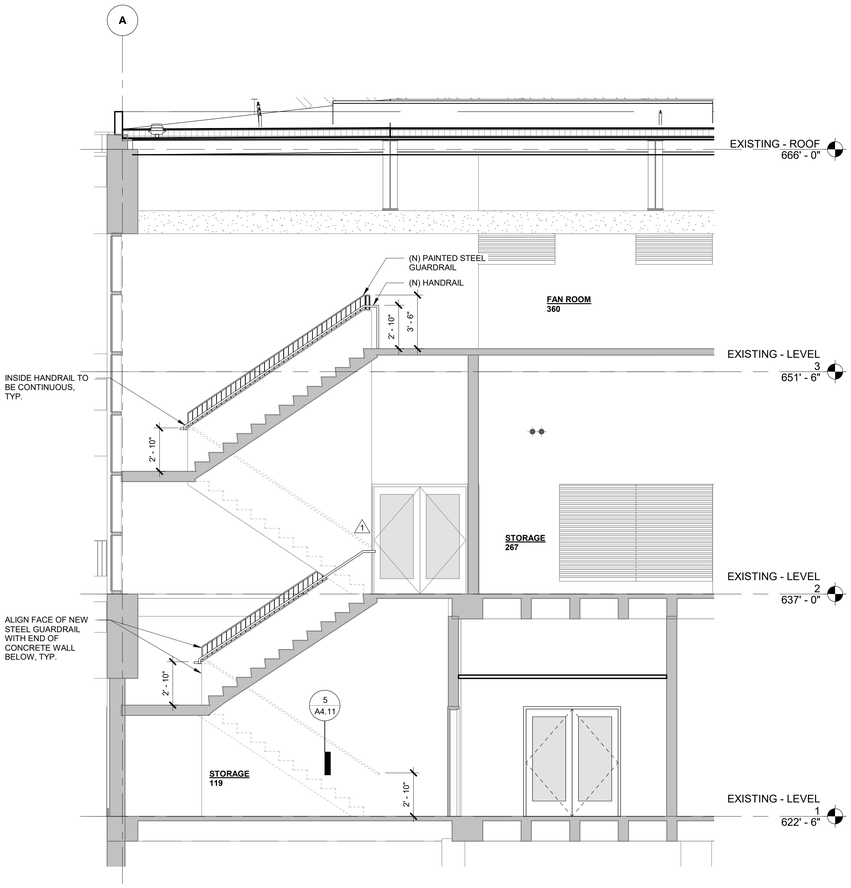
Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24
2	Revision 4	08-13-24

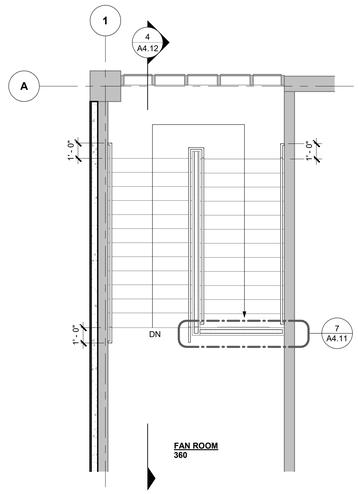
VERTICAL CIRCULATION - STAIRS

A4.11

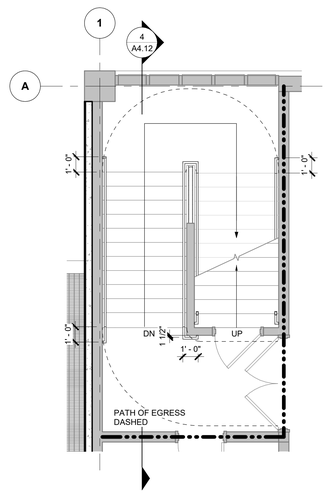
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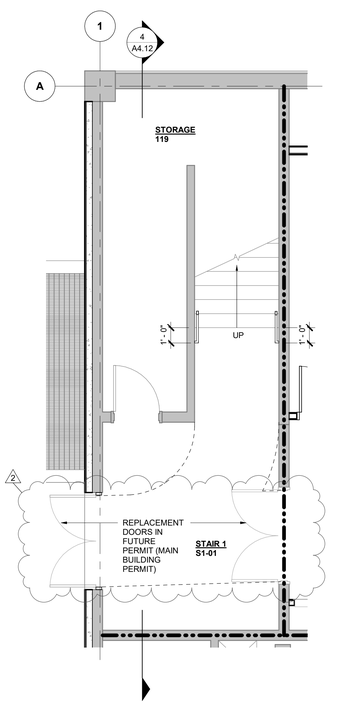
4 SECTION - STAIR 1
1/4" = 1'-0"



3 PLAN - STAIR 1 - LEVEL 3
1/4" = 1'-0"



2 PLAN - STAIR 1 - LEVEL 2
1/4" = 1'-0"



1 PLAN - STAIR 1 - LEVEL 1
1/4" = 1'-0"

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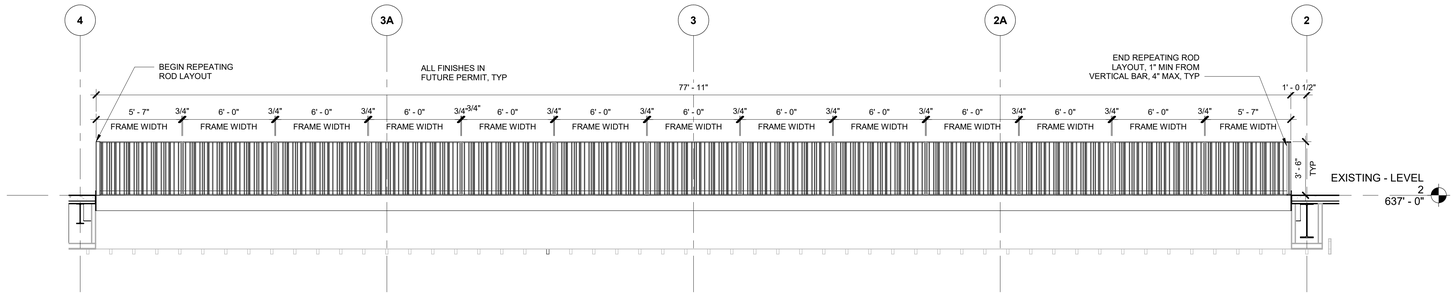
Revisions

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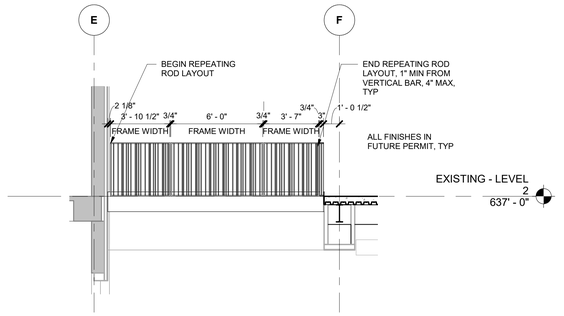
VERTICAL CIRCULATION - STAIRS

A4.12

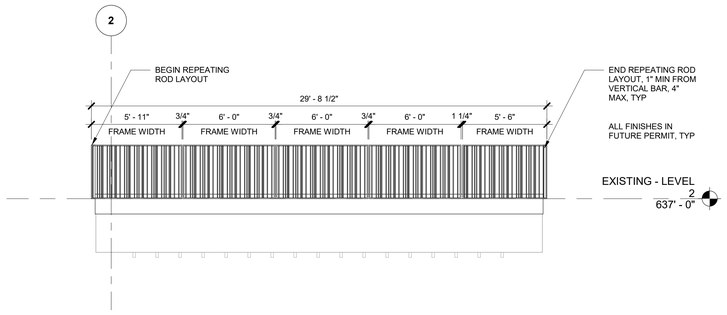
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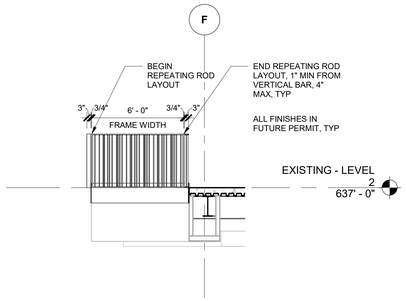
1 GUARDRAIL ELEVATION - 1
1/4" = 1'-0"



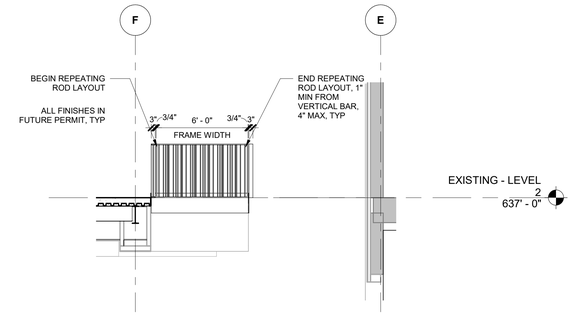
2 GUARDRAIL ELEVATION - 2
1/4" = 1'-0"



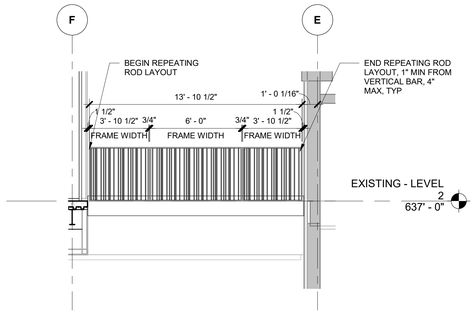
3 GUARDRAIL ELEVATION - 3
1/4" = 1'-0"



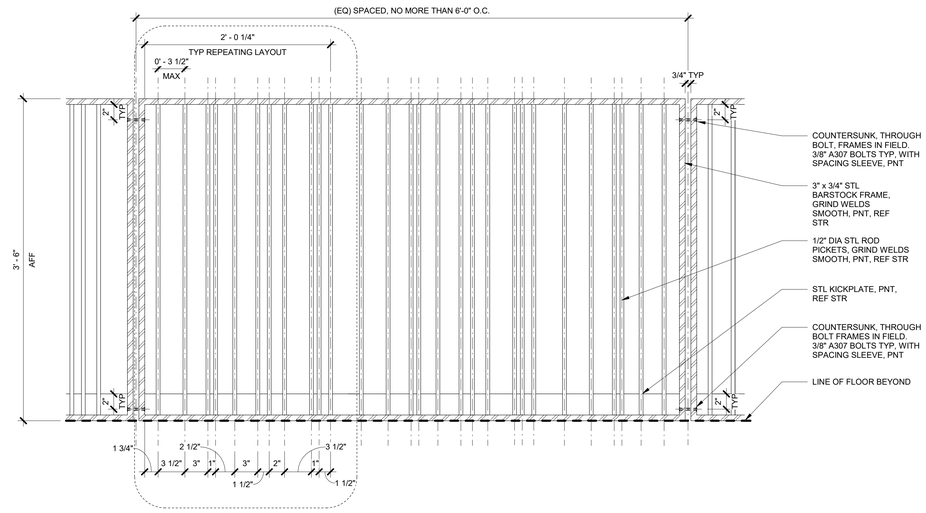
4 GUARDRAIL ELEVATION - 4
1/4" = 1'-0"



5 GUARDRAIL ELEVATION - 5
1/4" = 1'-0"



6 GUARDRAIL ELEVATION - 6
1/4" = 1'-0"



7 STL GUARDRAIL SYS 1, TYPICAL PICKET LAYOUT
1 1/2" = 1'-0"

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Permit #: 24-020319-STR-01-CO

Portland Community College
12000 SW 49th Ave.
Portland, Oregon
97219

PCC SY-HT Building West Side Renovation
12000 SW 49th Ave.
Portland, Oregon 97219

Date	02/23/24
Project No.	221000

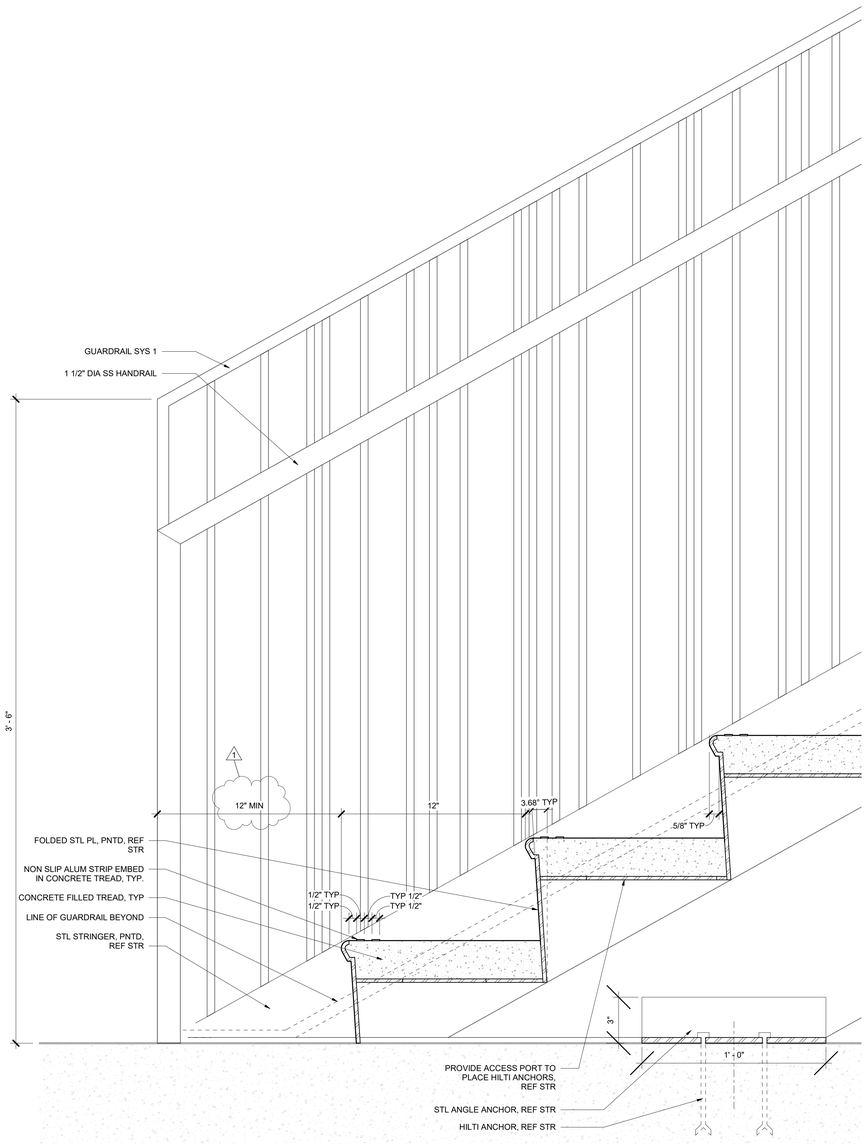
Revisions

NO.	DESCRIPTION	DATE

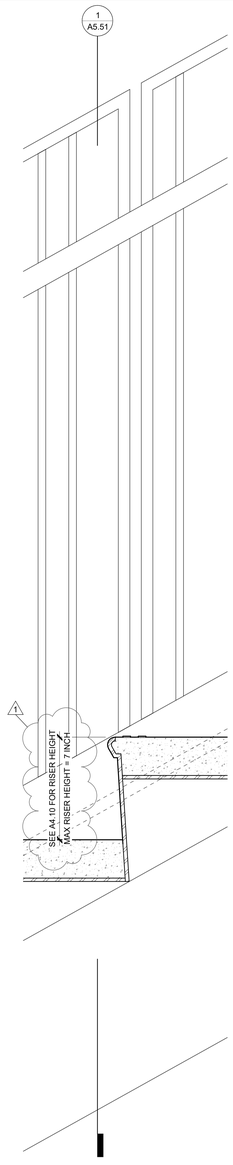
GUARDRAILS

A4.15

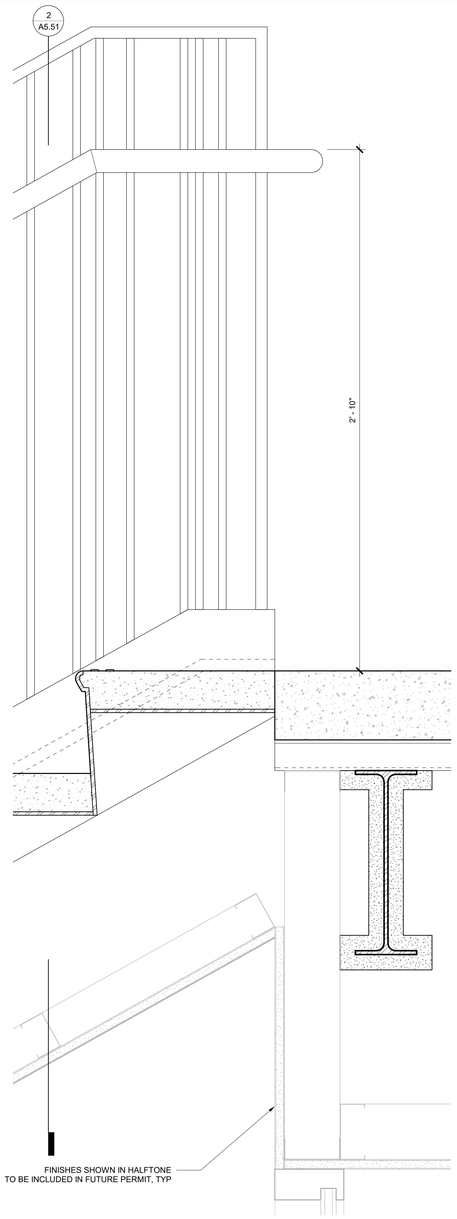
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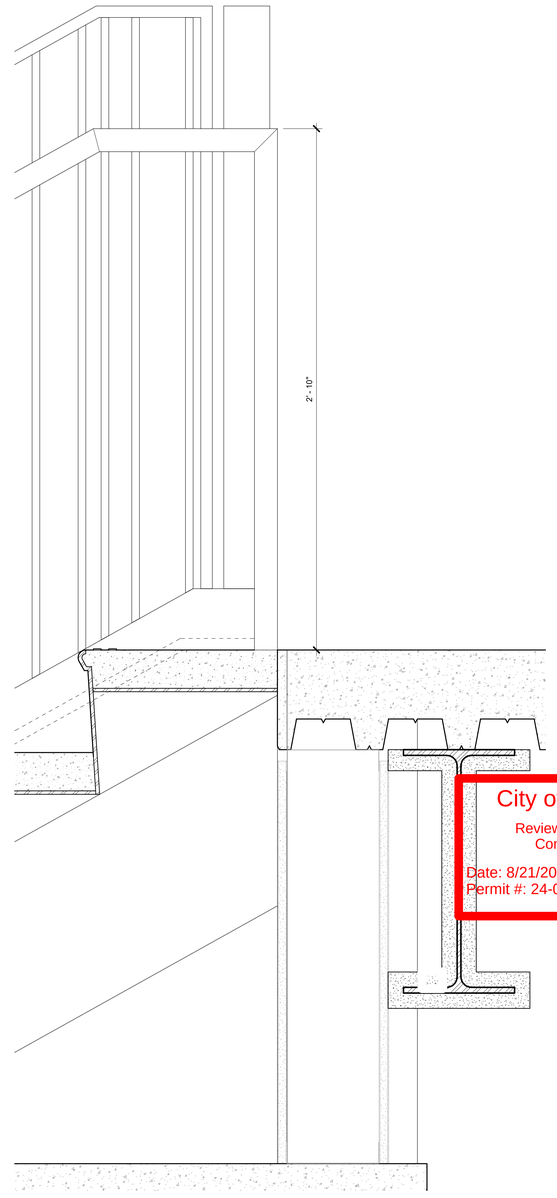
14 SECTION DETAIL - STAIR 11 - LEVEL 1
3" = 1'-0"



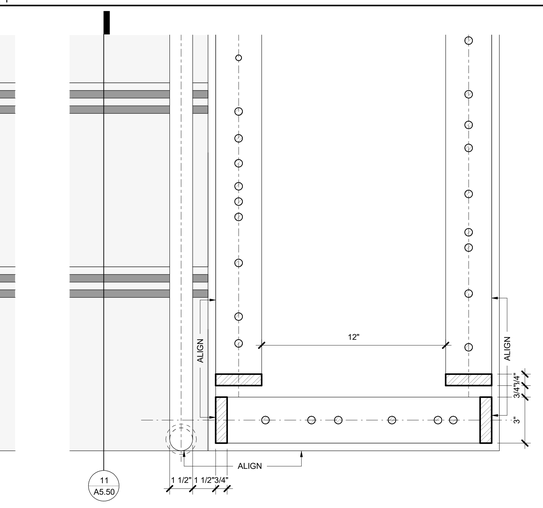
13 SECTION DETAIL - FRAME JOINT
3" = 1'-0"



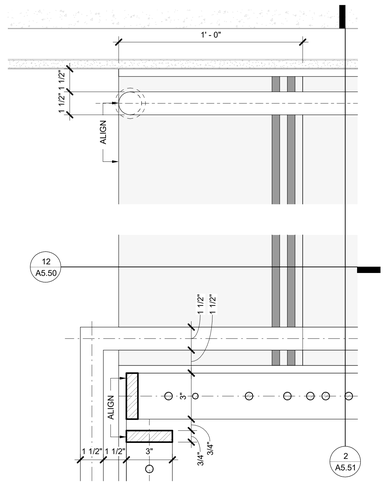
12 SECTION DETAIL - STAIR 11 - LANDING
3" = 1'-0"



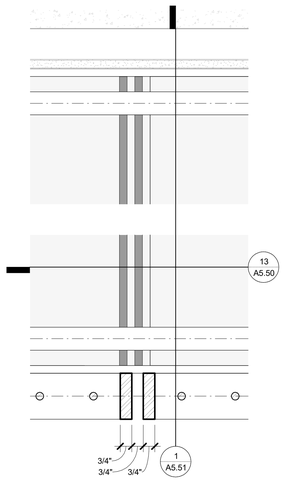
11 SECTION DETAIL - STAIR 11 - LEVEL 2
3" = 1'-0"



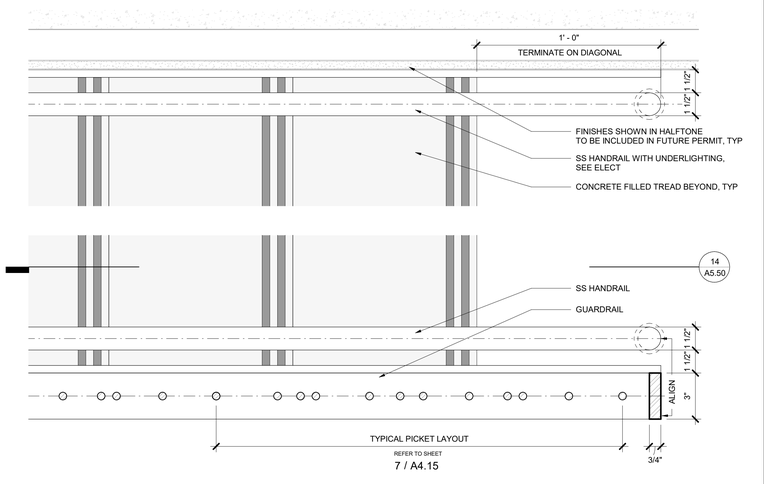
4 PLAN DETAIL - STAIR 11 - LEVEL 2
3" = 1'-0"



3 PLAN DETAIL - STAIR 11 - LANDING
3" = 1'-0"



2 PLAN DETAIL - STAIR 11 - FRAME JOINT
3" = 1'-0"



1 PLAN DETAIL - STAIR 11 - LEVEL 1
3" = 1'-0"

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REGISTERED ARCHITECT
Miles E. Woofter
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STATE OF OREGON

City of Portland
Reviewed for Code Compliance
Date: 8/21/2024
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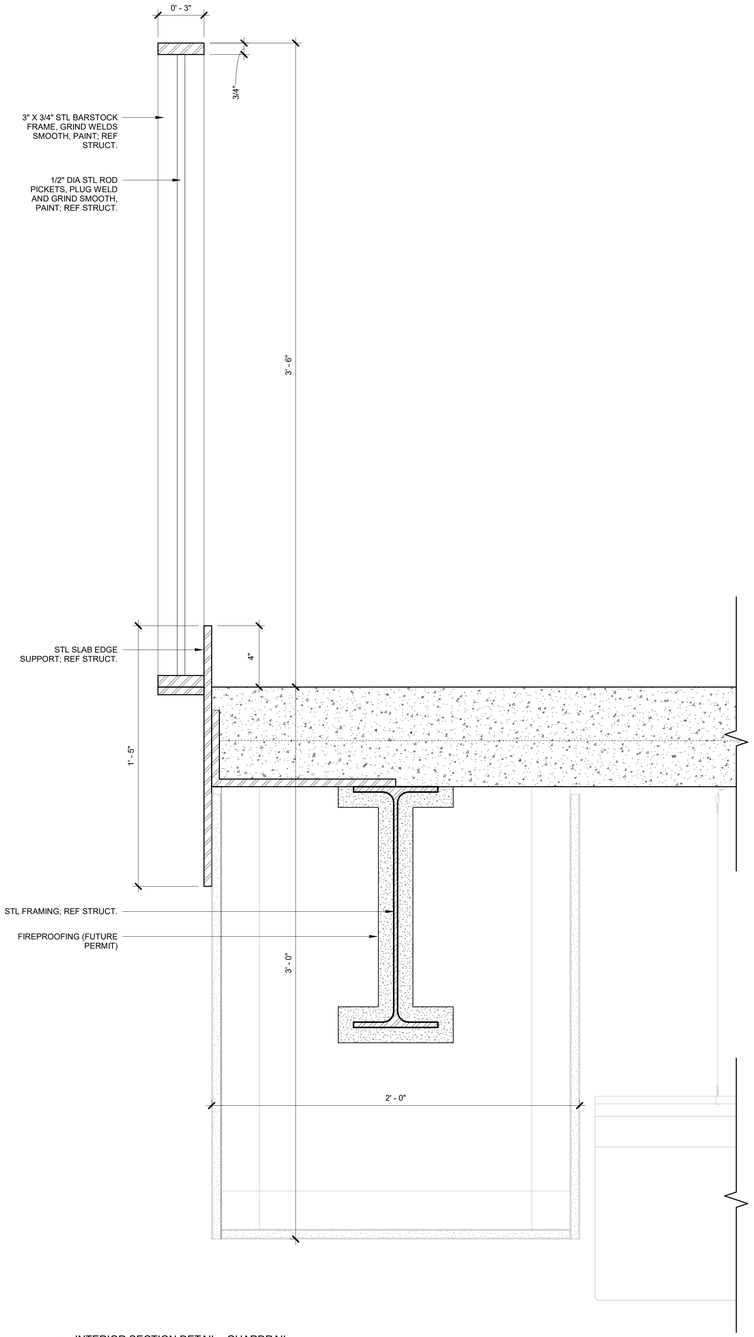
Revisions

NO.	DESCRIPTION	DATE
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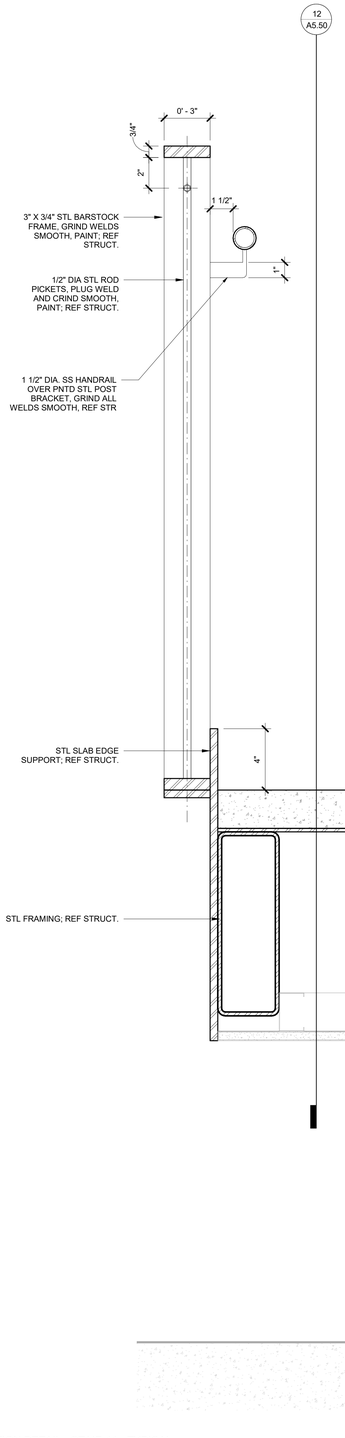
STAIR AND GUARDRAIL DETAILS

A5.50

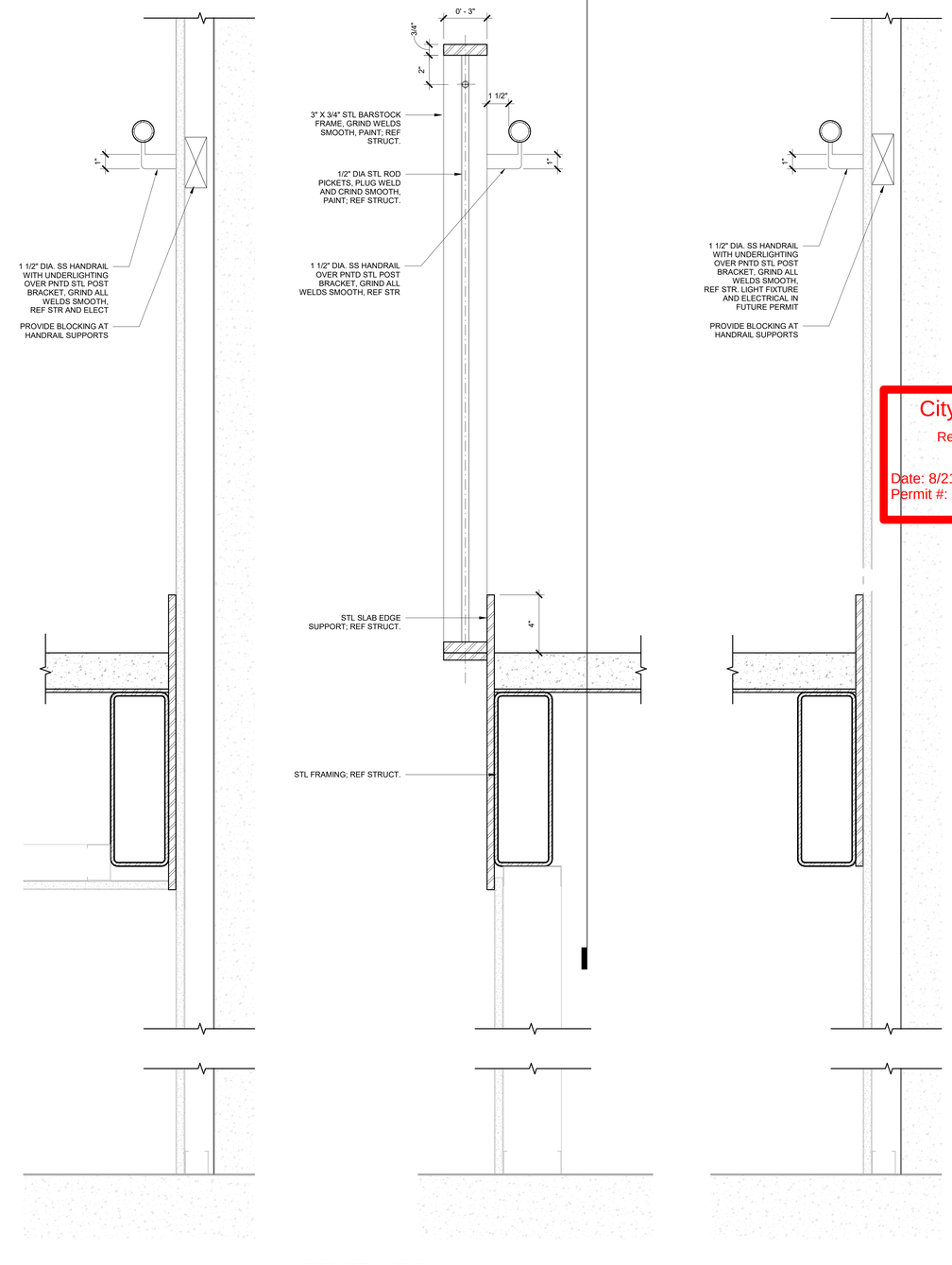
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3 INTERIOR SECTION DETAIL - GUARDRAIL
3" = 1'-0"



2 SECTION DETAIL - STAIR 11 - TYPICAL
3" = 1'-0"



1 SECTION DETAIL - STAIR 11
3" = 1'-0"

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STAIR AND GUARDRAIL DETAILS

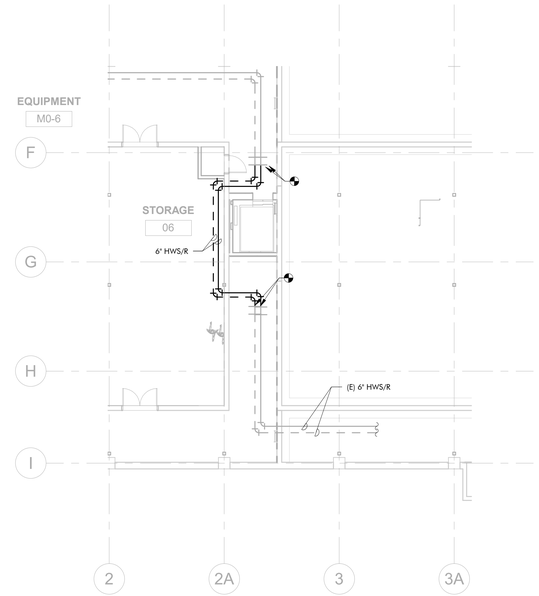
A5.51

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REGISTERED PROFESSIONAL ENGINEER
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JANUARY 3, 2012
ANDREW CHARLES CRAIG
EXPIRES: 12-31-2025

City of Portland
Reviewed for Code Compliance
Date: 8/21/2024
Permit #: 24-020319-STR-01-CO



1 FLOOR PLAN - BASEMENT UNDER POOL - HVAC PIPING
3/32" = 1'-0"

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FLOOR PLAN - BASEMENT UNDER POOL - HVAC PIPING

M3.00A

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ABBREVIATIONS

AC	AIR CONDITIONING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AH	AIR HANDLER (SPLIT REFRIG)
AHU	AIR HANDLING UNIT
AL	ACOUSTICAL LINING
AP	ACCESS PANEL
BB	ELECTRIC BASEBOARD RADIATION
B	BOILER
BDD	BACK DRAFT DAMPER
BFC	BELOW FINISHED CEILING
BOB	BOTTOM OF BEAM
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
C	CHILLER
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CHWP	CHILLED WATER PUMP
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CO	CLEAN OUT
CP	CONDENSATE PUMP
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
CT	COOLING TOWER
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CVB	CONSTANT VOLUME BOX
CWP	CONDENSER WATER PUMP
DB	DRY BULB
DS	DUCT SILENCER
DWP	DOMESTIC WATER PUMP
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EJ	EXPANSION JOINT
ER	EXHAUST REGISTER
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EWT	ENTERING WATER TEMPERATURE
EWC	ELECTRIC WATER COOLER
FA	FREE AREA
FX	FLEXIBLE CONNECTION
FC	FAN COIL UNIT
FD	FIRE DAMPER
FLR	FLOOR
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FOP	FUEL OIL PUMP
FP	FIRE PUMP
FPM	FEET PER MINUTE
FTR	FINNED TUBE RADIATION
GC	GENERAL CONTRACTOR
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HD	HAND DAMPER
HP	HEAT PUMP
HV	HEATING AND VENTILATING UNIT
HWC	HOT WATER CONVERTER
HWP	HOT WATER PUMP
HWR	HEATING HOT WATER RETURN
HWS	HEATING HOT WATER SUPPLY
HX	HEAT EXCHANGER
HZ	HERTZ
ID	INSIDE DIAMETER
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
LD	LINEAR DIFFUSER
LF	LINEAR FEET
MC	MECHANICAL CONTRACTOR
MTD	MOUNTED
MOD	MOTOR OPERATED DAMPER
MUA	MAKE-UP AIR UNIT
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NIC	NOT IN CONTRACT
NK	NECK
OA	OUTSIDE AIR
OAI	OUTSIDE AIR INTAKE
OAT	OUTSIDE AIR TEMPERATURE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OBD	OPPOSED BLADE DAMPER
PBD	PARALLEL BLADE DAMPER
PRV	PRESSURE REDUCING VALVE
PTAC	PACKAGED TERMINAL AIR CONDITIONER
RA	RETURN AIR
RAG	RETURN AIR GRILLE
RAR	RETURN AIR REGISTER
RCP	REFLECTED CEILING PLAN
RHC	REHEAT COIL
RF	RETURN FAN
SA	SUPPLY AIR
SAR	SUPPLY AIR REGISTER
SCG	SMOKE CONTROL GRILLE
SD	SMOKE DAMPER
SEF	SMOKE EXHAUST FAN
SF	SUPPLY FAN
SP	STATIC PRESSURE
TG	TRANSFER GRILLE
TYP	TYPICAL
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
VAV	VARIABLE AIR VOLUME UNIT
VD	VOLUME DAMPER
VTR	VENT THRU ROOF
WB	WET BULB
WMS	WIRE MESH SCREEN

DUCTWORK SYMBOLS

- SECTION THROUGH RETURN OR EXHAUST AIR
- SECTION THROUGH SUPPLY OR OUTSIDE AIR DUCT
- SUPPLY OR OUTSIDE AIR DUCT
- ACCESS DOOR (BOTTOM OR SIDE)
- ACOUSTICALLY LINED DUCT
- DAMPER, FIRE
- DAMPER, MANUAL VOLUME
- INCLINED DROP IN DIRECTION OF ARROW
- INCLINED RISE IN DIRECTION OF ARROW
- TRANSITION, RECTANGULAR TO ROUND
- FLEXIBLE DUCT
- IN-LINE FAN
- TRANSITION, RECTANGULAR
- SPIN-IN COLLAR INTO ADAPTER ON TOP OF DUCT
- CEILING SUPPLY AIR DIFFUSER (CD)
- SIDEWALL SUPPLY GRILLE (SG)
- ELBOW TURNED DOWN
- ELBOW TURNED UP
- ELBOW, RADIUS TYPE
- ELBOW, SQUARE OR RECTANGULAR TYPE WITH AIRFOIL TURNING VANES
- RETURN OR EXHAUST AIR DUCT
- CEILING RETURN AIR GRILLE (CRG)
- SIDEWALL RETURN AIR GRILLE (RG)
- OPEN END DUCT
- FLEXIBLE CONNECTION

HVAC CONTROL SYMBOLS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	GATE VALVE	T	ROOM OR ZONE THERMOSTAT
	GLOBE VALVE	T	DUCT THERMOSTAT
	GAS COCK		THERMOMETER
S	SOLENOID VALVE		EXPANSION VALVE
	CONTROL VALVE , 2-WAY	DM	DAMPER MOTOR
PRV	PRESSURE REDUCING VALVE		DAMPER
	CHECK VALVE	M	MOTOR
	CENTRIFUGAL FAN		PLUG VALVE
F	FLOW SWITCH		PRESSURE GAGE
FS	FIRE SAFETY SWITCH	P	PRESSURE SWITCH
H	HUMIDISTAT, ROOM		PUMP
H	HUMIDISTAT, DUCT	R	RELAY
	BALL VALVE		PRESS./TEMP. RELIEF VALVE
	CONTROL VALVE , 3-WAY	SD	SMOKE DETECTOR
F	FLOW SWITCH		CONTROL WIRING
	STEAM TRAP		STATIC PRESSURE CONTROLLER

PIPING SYSTEM SYMBOLS

CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
HWS	HEATING WATER SUPPLY
HWR	HEATING WATER RETURN

DEMO LINE TYPES

- EXISTING TO REMAIN
- EXISTING TO BE DEMOLISHED
- NEW WORK

MECHANICAL DEMO SHE...

MD0.01	COVER SHEET - HVAC DEMO
MD1.00	DEMO PLAN - BASEMENT - HVAC
MD1.01	DEMO PLAN - FIRST FLOOR - HVAC
MD1.02	DEMO PLAN - SECOND FLOOR - HVAC
MD1.03	DEMO PLAN - THIRD FLOOR - HVAC
M3.00A	FLOOR PLAN - BASEMENT UNDER POOL - HVAC PIPING

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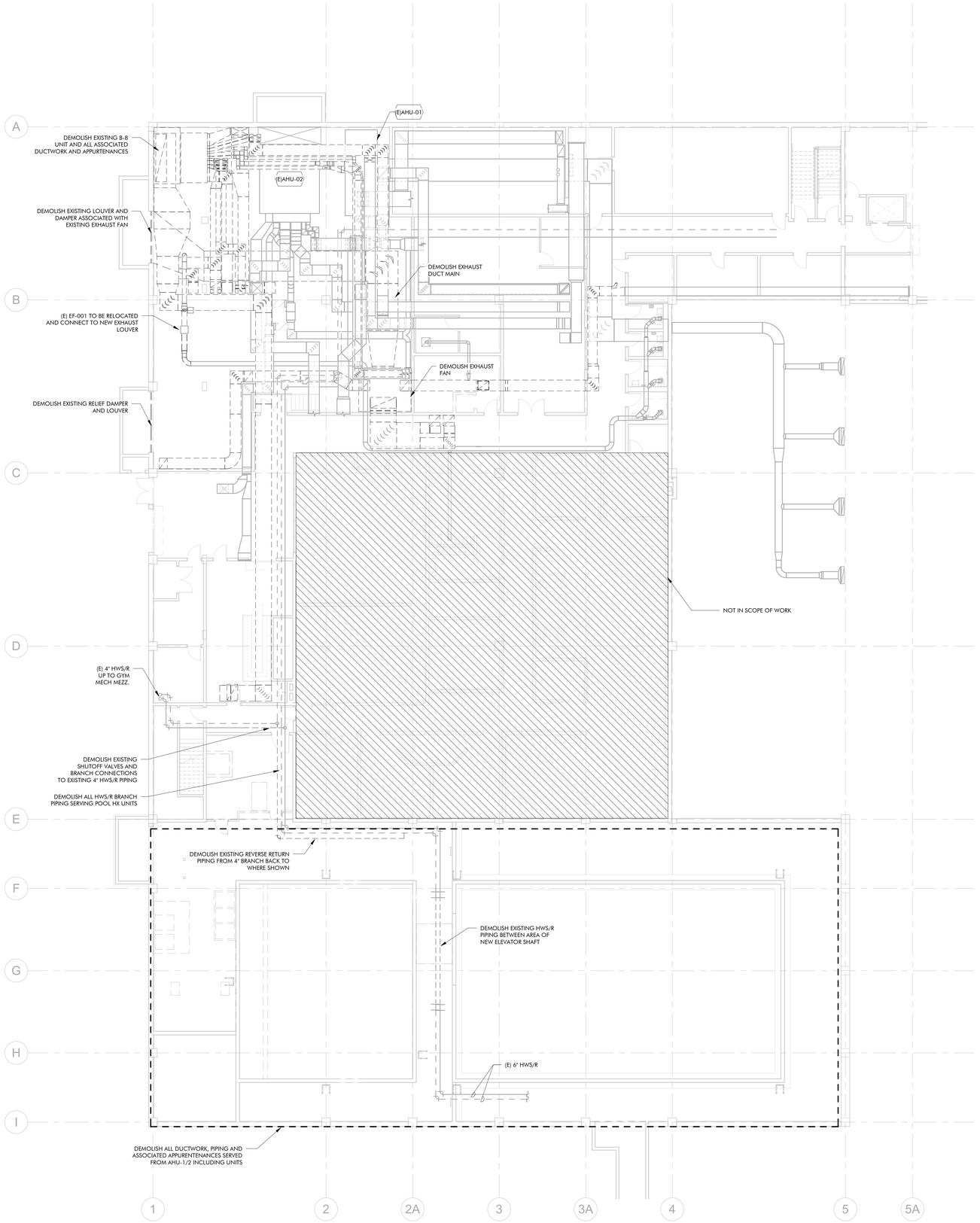
COVER SHEET - HVAC DEMO

MD0.01

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GENERAL DEMO SHEET NOTES

A. ALL EXISTING BTU METERS, VFDS, DISCONNECTS AND HVAC CONTROLS TO BE SALVAGED AND RETURNED TO PCC FMS.



1 DEMO PLAN - BASEMENT - HVAC
3/32" = 1'-0"

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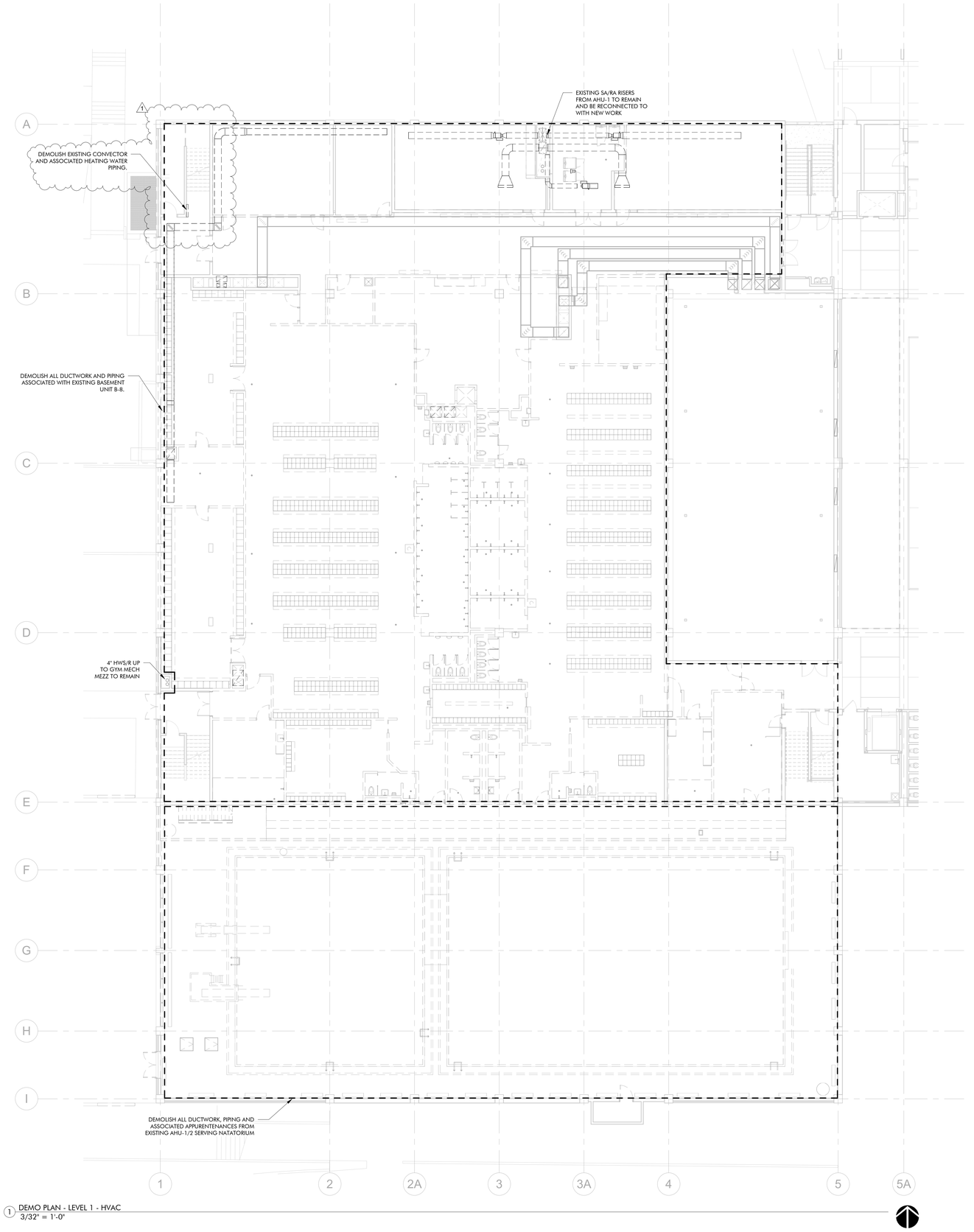
Revisions

NO.	DESCRIPTION	DATE

DEMO PLAN - BASEMENT - HVAC

MD1.00

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1 DEMO PLAN - LEVEL 1 - HVAC
3/32" = 1'-0"

GENERAL DEMO SHEET NOTES

A. ALL EXISTING BTU METERS, VFDS, DISCONNECTS AND HVAC CONTROLS TO BE SALVAGED AND RETURNED TO PCC FMS.

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Revisions

NO.	DESCRIPTION	DATE
1	Revision 1	05-24-24

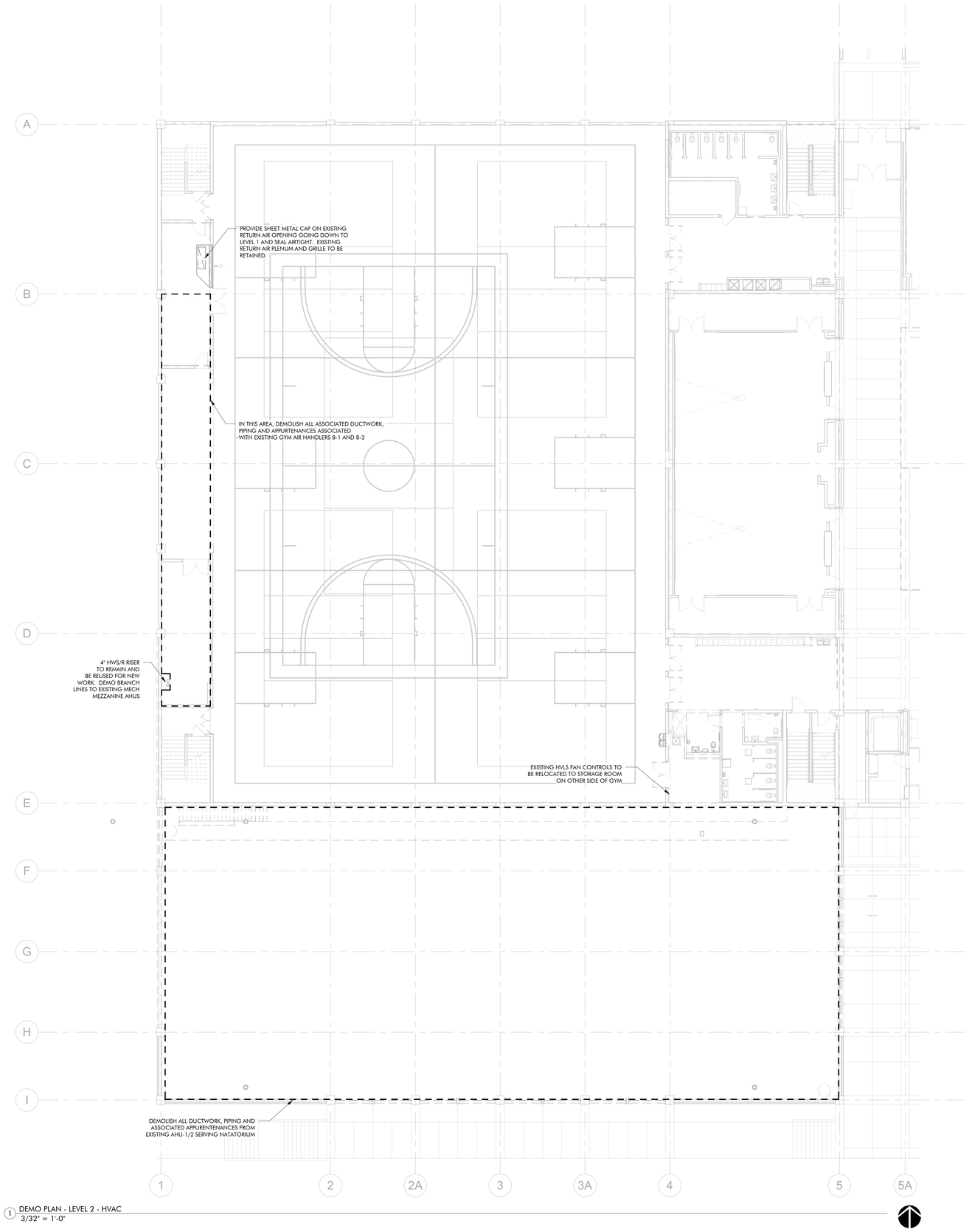
DEMO PLAN - FIRST FLOOR - HVAC

MD1.01

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GENERAL DEMO SHEET NOTES

A. ALL EXISTING BTU METERS, VFDS, DISCONNECTS AND HVAC CONTROLS TO BE SALVAGED AND RETURNED TO PCC FMS.



1 DEMO PLAN - LEVEL 2 - HVAC
3/32" = 1'-0"

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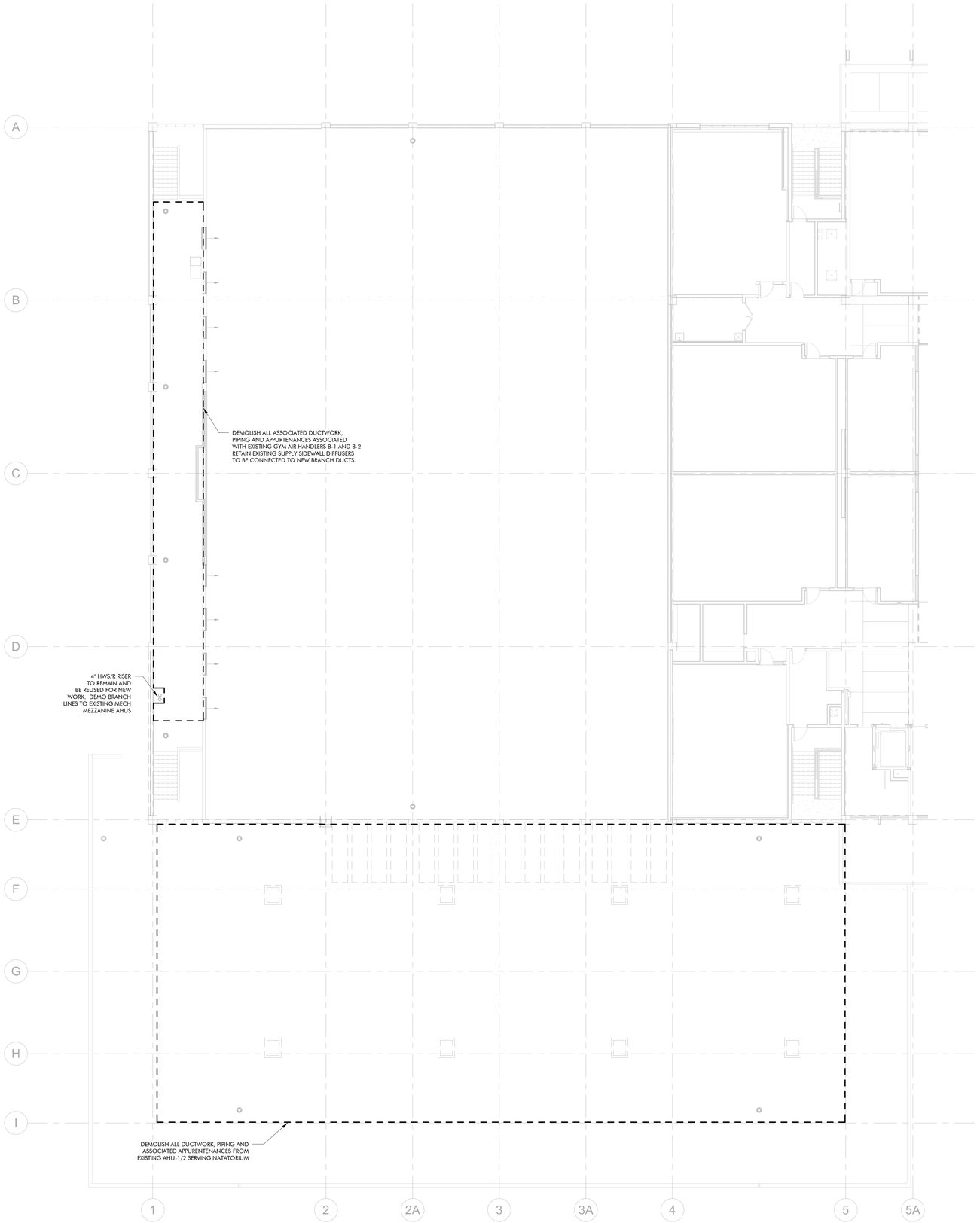
Revisions

NO.	DESCRIPTION	DATE

DEMO PLAN - SECOND FLOOR - HVAC

MD1.02

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1 DEMO PLAN - LEVEL 3 - HVAC
3/32" = 1'-0"

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DEMO PLAN - THIRD FLOOR - HVAC

MD1.03

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ABBREVIATIONS

(E)	EXISTING TO REMAIN
(ER)	EXISTING RELOCATED
(ERR)	EX. TO BE REMOVED AND RELOCATED
AB	ABOVE
AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
BFP	BACKFLOW PREVENTOR
BLDG	BUILDING
BT	BATH TUB
CA	COMPRESSED AIR
CD	CONDENSATE
CLNG	CEILING
CM	COFFEE MAKER
CO	CLEANOUT
COL	COLUMN
COMP	COMPARTMENT
CONN	CONNECTION
CON	CONTINUATION
CONT'D	CONTINUED
CW	COLD WATER
D	DRAIN
DN	DOWN
DWG	DRAWING
DW	DISHWASHER
ELEV	ELEVATION
ET	EXPANSION TANK
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FF	FINISHED FLOOR
FLR	FLOOR
FPWH	FROST-PROOF WALL HYDRANT
FS	FLOW SWITCH
FT	FOOT, FEET
G	GAS LINE
GAL	GALLON, GALLONS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HB	HOSE BIB
HEC	HOSE END CONNECTION
HW	HOT WATER
HWC	HOT WATER CIRCULATING
HORIZ	HORIZONTAL
HZ	HERTZ
ID	INDIRECT WASTE LINE
IM	ICE MAKER
IN	INCH, INCHES
IN WG	INCHES OF WATER GAUGE
INV	INVERT ELEVATION
JC	JANITOR'S CLOSET
L	LEADER / STORM
LAV	LAVATORY
LBS	POUNDS
MS	MOP SINK
MTD	MOUNTED
MTG	MOUNTING
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OD	OVERFLOW STORM DRAIN
PD	PRESSURE DROP
PH	PHASE
PNEU	PNEUMATIC
POC	POINT OF CONNECTION
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SWITCH
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
RD	ROOF DRAIN
RPZ	REDUCED PRESSURE ZONE
REF	REFRIGERATOR
RH	ROOF HYDRANT
RPM	REVOLUTIONS PER MIN
RT	RUNNING TRAP
S	SINK
SA	SHOCK ARRESTOR
SANB	SANITARY BELOW SLAB
SAN	SANITARY
SD	STORM DRAIN
SH	SHOWER
SK	SINK
SP	SUMP PUMP
SS	SERVICE SINK
ST	STORM
TEMP	TEMPERATURE
TMV	THERMOSTATIC MIXING VALVE
TP	TRAP PRIMER
TW	TEMPERED WATER
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UR	URINAL
V	VENT; VOLTS
VB	VACUUM BREAKER
VIF	VERIFY IN FIELD
VTR	VENT THROUGH ROOF
W	WASTE LINE
WB	WASHER BOX
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT; WATER HEATER

PIPING ELEMENTS/VALVING

- EXISTING EQUIPMENT OR PIPING TO BE REMOVED.
- GATE VALVE
- GLOBE VALVE
- PLUG VALVE
- BUTTERFLY VALVE
- BALL VALVE
- SWING CHECK VALVE
- LIFT CHECK VALVE
- GATE VALVE, ANGLE
- GLOBE VALVE, ANGLE
- DIAPHRAM VALVE
- BALANCING VALVE
- CBV — CIRCUIT SETTING BALANCING VALVE
- THREE WAY CONTROL VALVE
- TWO WAY CONTROL VALVE
- S — SOLENOID VALVE
- PRESSURE REDUCING VALVE (PRV)
- TPV — TEMPERATURE/PRESSURE RELIEF VALVE
- RELIEF/SAFETY VALVE
- GAS COCK
- FUSIBLE LINK VALVE-QUICK CLOSING
- FUSIBLE LINK VALVE-QUICK OPENING
- AUTOMATIC FILL VALVE
- MV — MANUAL AIR VENT
- AV — AUTOMATIC AIR VENT (EXTEND DISCHARGE TO DRAIN)
- FLOW METER-VENTURI
- FLOW METER-ORIFICE
- DIRECTION OF FLOW
- R D — DIRECTION OF PITCH-RISE OR DROP
- STRAINER
- STRAINER WITH BLOW OFF VALVE
- PIPE RISING UP
- PIPE DROPPING DOWN
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- UNION - SCREWED OR FLANGED
- STEAM LEAK DETECTOR
- A — ANCHOR
- G — GUIDE
- EJ — EXPANSION JOINT
- FS — FLOW SWITCH
- TT — TEMPERATURE TRANSMITTER
- PT/PS — PRESSURE TRANSMITTER OR PRESSURE SWITCH
- TH — THERMOMETER
- GAUGE WITH GAUGE COCK & SYPHON (STEAM)
- AQUASTAT
- GAS PRESSURE REGULATOR
- FLOAT OPERATED CONTROL VALVE
- BASKET STRAINER
- STEAM TRAP
- ELECTRICALLY TRACED PIPING
- H W — EXPANSION LOOP (WxH)
- VB — VACUUM BREAKER

PLUMBING SYMBOLS

- SANITARY SEWER, AFG
- SANITARY SEWER, BFG
- SD — STORM
- SD — STORM, BFG
- HOT WATER
- COLD WATER
- COLD WATER W/ HEATRACE
- HOT WATER RETURN
- VENT
- OD — OVERFLOW DRAIN PIPING
- INDICATES PIPE BELOW GRADE OR FINISH FLOOR
- BALANCING VALVE
- CHECK VALVE
- VALVE, GENERAL
- UNION
- CLEANOUT
- WALL CLEANOUT
- FLOOR DRAIN
- XX — FIXTURE ABOVE

PLUMBING DEMO DRAWING INDEX

PD0.01	DEMO COVER SHEET - PLUMBING
PD1.00	DEMO PLAN - BASEMENT - PLUMBING
PD1.01	DEMO PLAN - FIRST FLOOR - PLUMBING
PD1.02	DEMO PLAN - SECOND FLOOR - PLUMBING
PD1.03	DEMO PLAN - THIRD FLOOR - PLUMBING
PD1.04	DEMO PLAN - ROOF - PLUMBING

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ANDREW CHARLES CRAIG
EXPIRES: 12-31-2025

City of Portland
Reviewed for Code Compliance
Date: 8/21/2024
Permit #: 24-020319-STR-01-CO

Portland Community College
12000 SW 49th Ave
Portland, OR 97219

PCC SY-HT Building West Side Renovation
12000 SW 49th Ave
Portland, OR 97219

Date 02/23/24
Project No. 221000

Revisions

NO.	DESCRIPTION	DATE

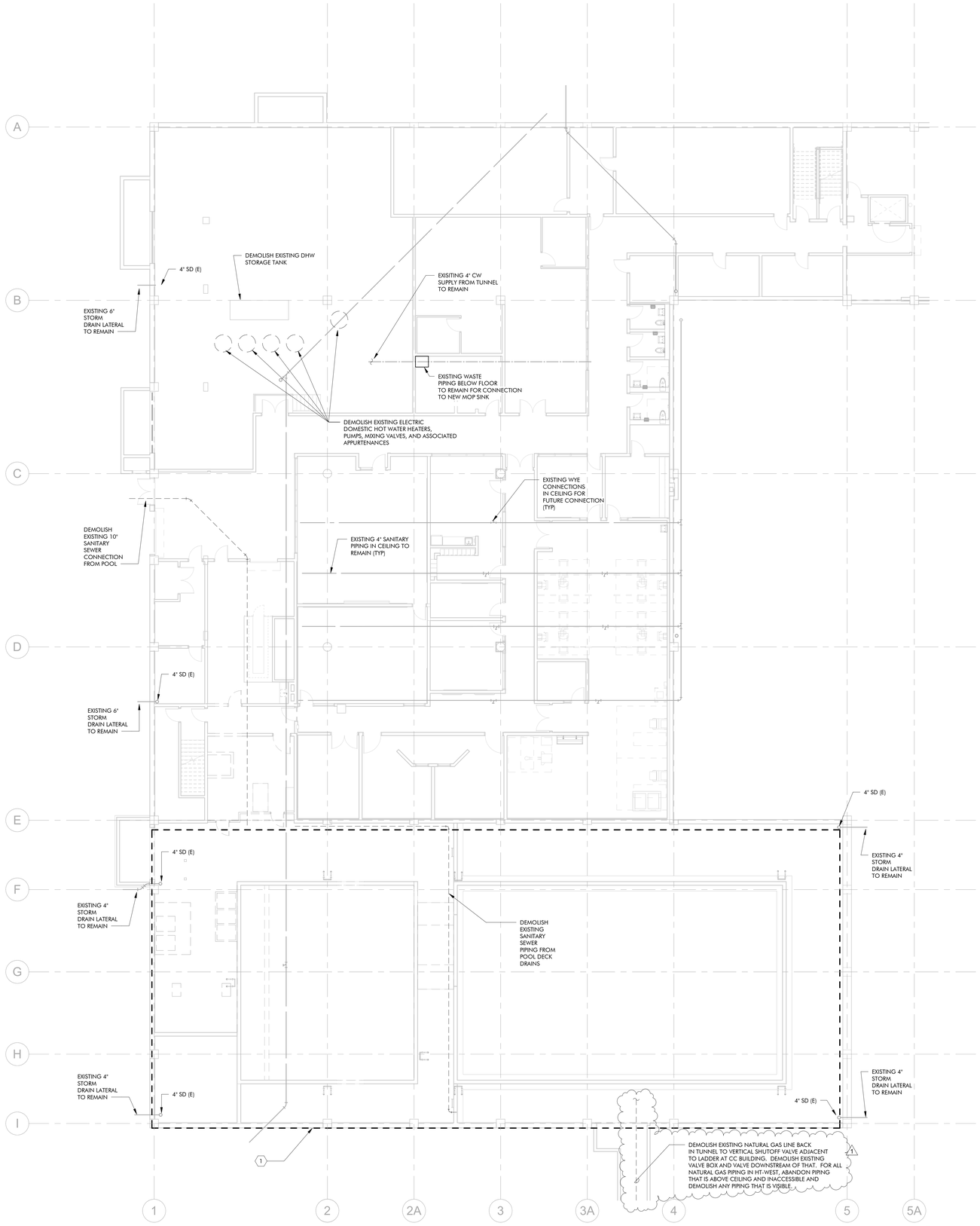
DEMO COVER SHEET - PLUMBING

PD0.01

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SHEET KEYNOTES

1 DEMOLISH ALL PLUMBING FIXTURES AND PIPING IN THIS AREA, INCLUDING FLOOR DRAINS, DOMESTIC HOT AND COLD WATER PIPING, PLUMBING VENTS, AND SANITARY SEWER PIPING. EXISTING STORM DRAIN RISERS TO REMAIN.



1 EXISTING LEVEL 0 - PLUMBING
3/32" = 1'-0"

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Date 05/10/24
Project No. 221000

Revisions

NO.	DESCRIPTION	DATE
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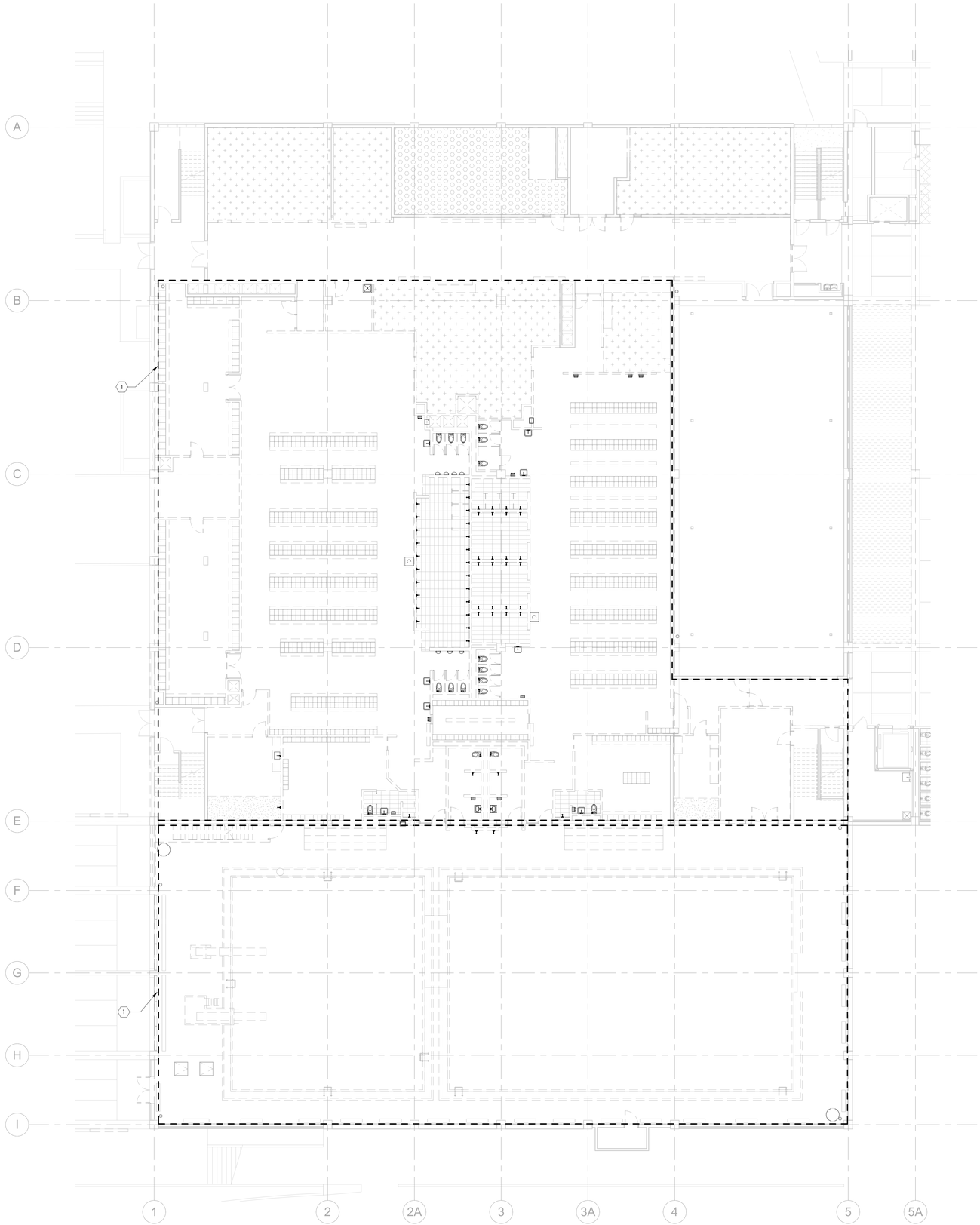
DEMO PLAN - BASEMENT - PLUMBING

PD1.00

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SHEET KEYNOTES

1 DEMOLISH ALL PLUMBING FIXTURES AND PIPING IN THIS AREA, INCLUDING FLOOR DRAINS, DOMESTIC HOT AND COLD WATER PIPING, PLUMBING VENTS, AND SANITARY SEWER PIPING. EXISTING STORM DRAIN RISERS TO REMAIN.



1 EXISTING LEVEL 1 - PLUMBING
3/32" = 1'-0"

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Date 02/23/24
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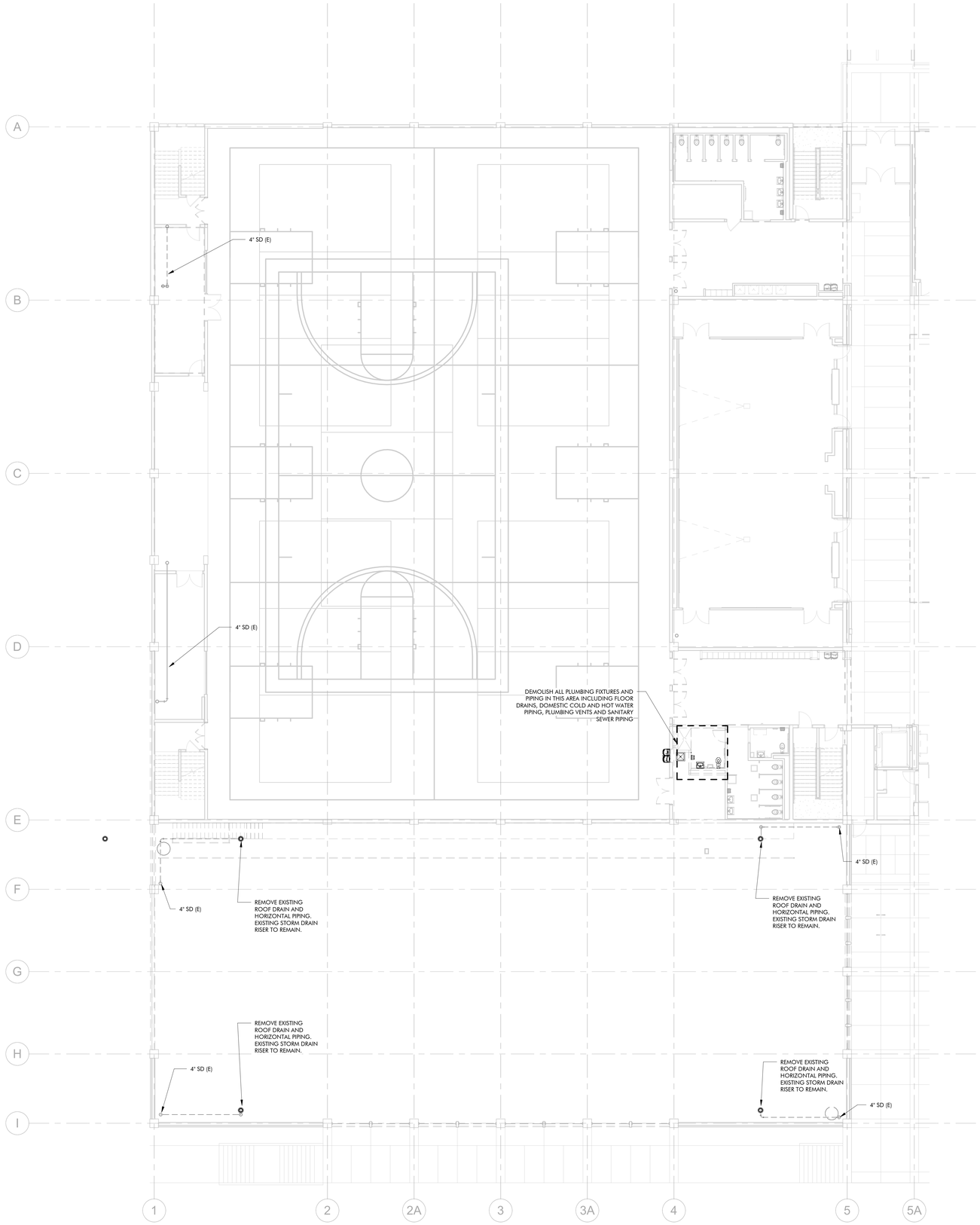
Revisions

NO.	DESCRIPTION	DATE

DEMO PLAN - FIRST FLOOR - PLUMBING

PD1.01

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1 EXISTING - LEVEL 2 - PLUMBING
3/32" = 1'-0"

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Date	02/23/24
Project No.	221000

Revisions

NO.	DESCRIPTION	DATE

DEMO PLAN - SECOND FLOOR - PLUMBING

PD1.02

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1 EXISTING - LEVEL 3 - PLUMBING
3/32" = 1'-0"

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Date	02/23/24
Project No.	221000

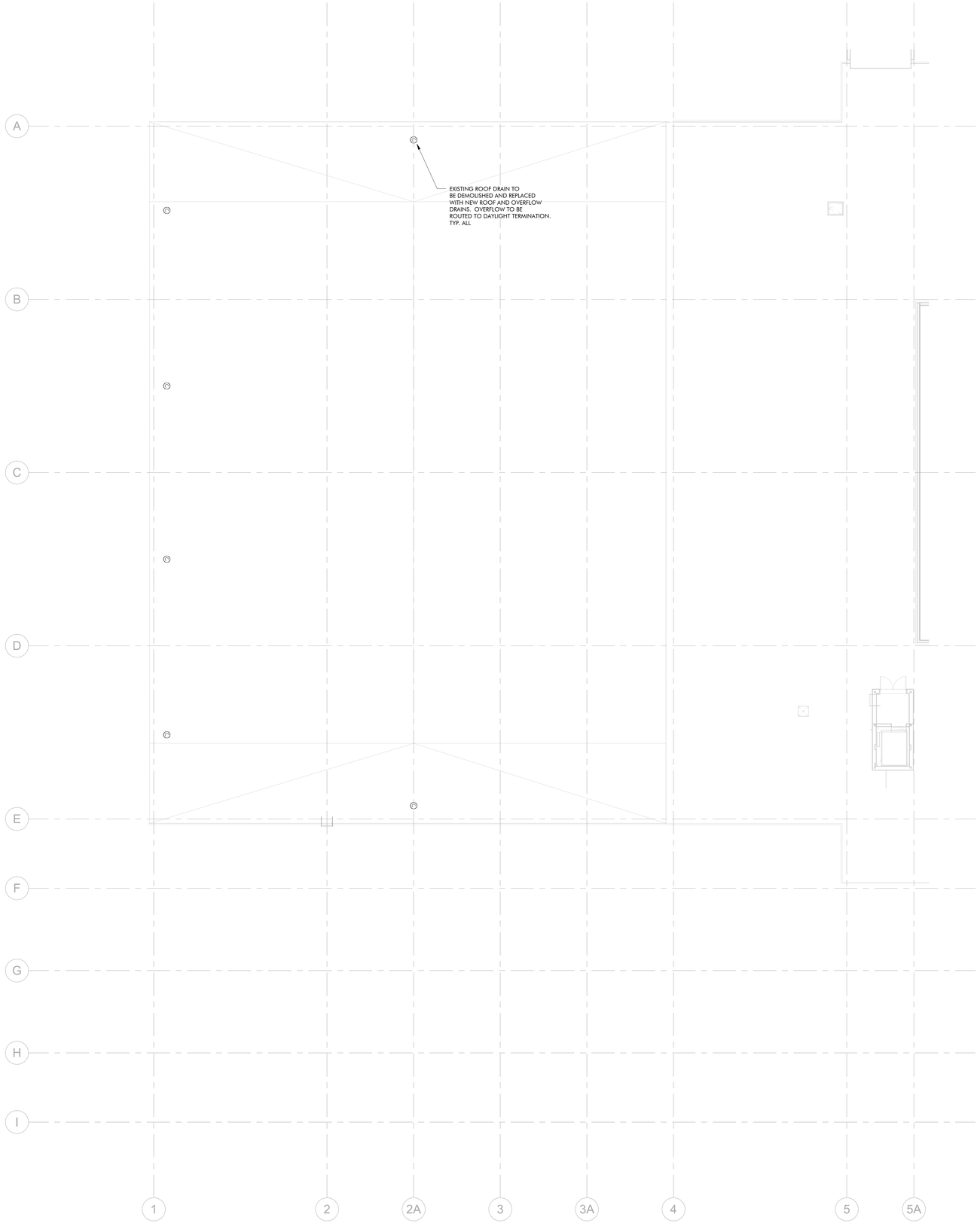
Revisions

NO.	DESCRIPTION	DATE

DEMO PLAN - THIRD FLOOR - PLUMBING

PD1.03

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1 EXISTING - ROOF - PLUMBING
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JANUARY 3, 2017
ANDREW CHARLES CRAIG
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Date 02/23/24
Project No. 221000

Revisions

NO.	DESCRIPTION	DATE

DEMO PLAN - ROOF - PLUMBING

PD1.04

PROJECT REFERENCE DATA:

1. GEOTECHNICAL INVESTIGATION: PORTLAND COMMUNITY COLLEGE SYLVANIA CAMPUS HEALTH TECHNOLOGY (HT) WEST BUILDING, SUBMITTED BY CENTRAL GEOTECHNICAL SERVICES, LLC, DATED 05/17/2024;
2. PCC SY-HT BUILDING WEST SIDE RENOVATION DRAWINGS SHEETS S1.00C AND S5.01 BY KPFF, DATED 02/23/24 AND REVISED 05/24/24;
3. PCC SY-HT BUILDING WEST SIDE RENOVATION DRAWINGS BY KPFF, DATED 12/15/23;
4. PCC SY-HT BUILDING WEST SIDE RENOVATION SPECIFICATION "SECTION 31 62 23 MICROPILES", DATED 12/15/23;
5. GEOTECHNICAL INVESTIGATION: PORTLAND COMMUNITY COLLEGE SYLVANIA CAMPUS HEALTH TECHNOLOGY (HT) BUILDING, SUBMITTED BY CENTRAL GEOTECHNICAL SERVICES, LLC, DATED 1/11/2021.

BUILDING CODES AND DESIGN MANUAL:

1. PUBLICATION NO. FHWA-NHI-05-039, MICROPILE DESIGN AND CONSTRUCTION GUIDELINES IMPLEMENTATION MANUAL;
2. PTI DC35.1-14 RECOMMENDATIONS FOR PRESTRESSED ROCK AND SOIL ANCHORS;
3. OREGON STRUCTURAL SPECIALTY CODE 2022, CHAPTER 18.

DESIGN CRITERIA:

1. ALL MICROPILES ARE DESIGNED FOR 100 KIPS IN COMPRESSION ONLY;
2. ALL MICROPILES ARE DESIGNED FOR AN ALLOWABLE VERTICAL DEFLECTION OF 0.5-IN AT DESIGN LOAD;
3. ONE (1) PRODUCTION MICROPILE SHALL BE VERIFICATION TESTED IN TENSION TO 2 TIMES THE MAXIMUM DESIGN LOAD; 200 KIPS.
4. TWO (2) PRODUCTION MICROPILE SHALL BE PROOF TESTED IN TENSION TO 1.5 TIMES THE MAXIMUM DESIGN LOAD; 150 KIPS.
5. IF DIFFERENT INSTALLATION PROCEDURES OR SOIL CONDITIONS ARE OBSERVED, AND ADDITIONAL LOAD TEST DATA IS DEEMED NECESSARY, MICROPILES MAY BE TESTED FOLLWOING THE PROOF TESTING PROCEDURE DESCRIBED ON THIS SHEET.

DESIGN CALCULATIONS:

1. THE MICROPILE DESIGN CALCULATIONS ARE CONTAINED IN THE REPORT TITLED: "PORTLAND COMMUNITY COLLEGE SYLVANIA HT WEST RENOVATION, MICROPILE DESIGN SUBMITTAL";

INSTALLATION PROCEDURE:

1. BEFORE ADVANCEMENT, THE DRILL STRING SHALL BE CENTERED ON THE MICROPILE LOCATION AND CHECKED FOR VERTICALITY USING ANGLE FINDERS AND BOX LEVELS;
2. WITH THE HYDRAULIC DRILL RIG IN PLACE, THE MICROPILE SHALL BE ADVANCED TO TIP ELEVATION USING AN OUTER CASING AND INNER DRILL STEEL. PRESSURIZED AIR WILL ACT AS A FLUSHING MEDIUM TO FLUSH CUTTINGS OUT OF THE MICROPILE;
3. THE CASING SHALL BE ADVANCED TO A DEPTH REQUIRED TO PREVENT CAVING CONDITIONS OR THE MINIMUM CASED LENGTH CALLED OUT IN THE DESIGN, WHICHEVER IS GREATER. THE MICROPILE MAY BE ADVANCED USING OPEN HOLE METHODS WHERE GROUND CONDITIONS ALLOW.
4. ONCE THE TIP ELEVATION HAS BEEN REACHED, THE INNER DRILL STEEL WILL BE REMOVED AND THE CENTRAL REINFORCING BAR SHALL THEN BE PLACED INTO THE DRILL HOLE AND SHALL BE CENTERED USING PLASTIC CENTRALIZERS;
5. ONCE THE BAR HAS BEEN FULLY INSERTED, THE DRILL HOLE SHALL BE TREMIE-FILLED WITH NEAT CEMENT GROUT. IN ORDER TO ENSURE FULL MICROPIILE DEPTH, THE TREMIE TUBE SHALL BE MEASURED WHILE ADVANCING DOWN THE DRILL HOLE. GROUT PRESSURE REQUIRED TO TRANSPORT GROUT THROUGH THE TREMIE TUBE TYPICALLY RANGES FROM 5 TO 35 PSI. AFTER TREMIE GROUTING IS COMPLETE, THE DRILL HOLE SHALL BE OVERFLOWED WITH GROUT AND VISUALLY INSPECTED FOR GROUT CONSISTENCY TO ENSURE QUALITY;
6. ONCE THE GROUT HAS REACHED THE REQUIRED COMPRESSIVE STRENGTH, TESTING SHALL BE PERFORMED (IF REQUIRED).

MICROPILE THREADBAR AND CENTRALIZERS:

1. THREADBAR SHALL CONFORM TO ASTM A615, GRADE 75. THREADBAR COUPLERS SHALL DEVELOP THE ULTIMATE TENSILE STRENGTH OF THE BAR AS CERTIFIED BY THE MANUFACTURER;
2. MICROPILE THREADBARS SHALL HAVE CENTRALIZERS PLACED EVERY 10 FEET (MAX) ALONG THE PILE AND A MAXIMUM OF 5 FEET FROM EITHER END OF THE PILE;
3. CENTRALIZERS SHALL BE CONSTRUCTED OF SCHEDULE 40 PVC, SECURELY ATTACHED TO THE THREADBAR OR PVC SHEATH, SIZED TO POSITION THE BAR WITHIN 1 INCH OF THE CENTER OF THE DRILL HOLE, SIZED TO ALLOW TREMIE PIPE INSERTION TO THE BOTTOM OF THE DRILL HOLE AND SIZED TO ALLOW GROUT TO FLOW FREELY UP THE DRILL HOLE.

MICROPILE CASING:

1. THE MICROPILE CASING SHALL BE IN ACCORDANCE WITH API N80, WITH A MINIMUM YIELD STRENGTH OF 80-KSI. THREADED CASING JOINTS SHALL PROVIDE THE MINIMUM STRENGTH OF THE REQUIRED MICROPILE DESIGN STRENGTH.

MICROPILE GROUT:

1. ALL GROUT SHALL BE A NEAT CEMENT OR SAND-CEMENT MIXTURE WITH A MINIMUM 3-DAY COMPRESSIVE STRENGTH OF 1500 PSI AND A MINIMUM 28-DAY COMPRESSIVE STRENTH OF 4000 PSI PER ASTM C109 / ASSHTO T106. TYPE IL PORTLAND CEMENT CONFORMING TO ASTM C150 / AASHTO M85 SHALL BE USED FOR MICROPILE GROUT;
2. NEAT CEMENT SHALL CONSIST OF A MIXTURE OF CEMENT AND WATER WITH A WATER CEMENT RATIO OF APPROXIMATELY 0.45. THIS IS COMMONLY ATTAINED WITH 5 GALLONS OF WATER PER 94 LB SACK OF CEMENT;
3. CEMENT SHALL BE ADEQUATELY STORED TO PREVENT MOISTURE DEGRADATION AND PARTIAL HYDRATION. CEMENT THAT HAS BECOME CAKED OR LUMP SHALL NOT BE USED. FINE AGGREGATE SHALL CONFORM TO ASTM C33 / AASHTO M6

TESTING - GENERAL:

1. ALL MICROPILE TESTS SHALL BE PERFORMED IN TENSION ONLY.
2. TESTING EQUIPMENT SHALL INCLUDE TWO DIAL GAUGES, A DIAL GAUGE SUPPORT, JACK AND PRESSURE GAUGE, A PUMP, AND A REACTION FRAME, AS DESCRIBED BELOW;
3. A MINIMUM OF TWO DIAL GAUGES WITH 0.001-IN ACCURACY SHALL BE USED TO MONITOR MOVEMENT AT THE TOP OF THE MICROPILE. THE MICROPILE TOP MOVEMENT SHALL BE THE AVERAGE OF THE TWO READINGS. DIAL GAUGES SHALL BE ATTACHED TO INDEPENDENT REFERENCE BEAMS.
4. THE JACK AND PRESSURE GAUGE SHALL BE CALIBRATED BY AN INDEPENDENT TESTING LABORATORY AS A UNIT. THE PRESSURE GAUGE SHALL BE GRADUATED IN 100 PSI INCREMENTS OR LESS AND SHALL HAVE A RANGE NOT EXCEEDING TWICE THE ANTICIPATED MAXIMUM PRESSURE DURING TESTING UNLESS APPROVED OTHERWISE BY THE ENGINEER. THE RAM TRAVEL OF THE JACK SHALL BE SUFFICIENT TO ENABLE THE TEST TO BE PREFORMED WITHOUT RE-SETTING THE JACK;
5. THE STRESSING EQUIPMENT SHALL BE PLACED OVER THE MICROPILE IN SUCH A MANNER THAT THE JACK, BEARING PLATES, AND STRESSING ANCHORAGE ARE IN ALIGNMENT. THE JACK SHALL BE POSITIONED AT THE BEGINNING OF THE TEST SUCH THAT UNLOADING AND REPOSITIONING OF THE JACK DURING THE TEST WILL NOT BE REQUIRED.

PROOF TESTING PROCEDURE:

1. TWO (2) MICROPILES SHALL BE PROOF TESTED AND UNLOADED IN ACCORDANCE WITH THE FOLLOWING SCHEDULE.
2. THE ALIGNMENT LOAD (AL) SHOULD BE THE MINIMUM LOAD REQUIRED TO ALIGN THE TESTING APPARATUS AND SHALL NOT EXCEED 0.05DL. THE DIAL GAUGES SHOULD BE ZEROED AFTER THE ALIGNMENT LOAD IS APPLIED;

LOAD	HOLD TIME
AL	1 MINUTES
0.25DL	1 MINUTES
0.50DL	1 MINUTES
0.75DL	1 MINUTES
1.00DL	1 MINUTES
1.25DL	1 MINUTES
1.50DL	10 OR 60 MINUTES (CREEP TEST)
AL	1 MINUTES

3. EACH LOAD INCREMENT SHALL BE HELD FOR AT LEAST 1 MINUTE FOR PROOF TESTING. THE TEST MICROPILE SHALL BE MONITORED FOR CREEP FOR 10 MINUTES AT THE 1.50 DL INCREMENT. MOVEMENT DURING THE CREEP PORTION OF THE TEST SHALL BE MEASURED AND RECORDED AT 1, 2, 3, 4, 5, 6, AND 10 MINUTES. IF MOVEMENT AT THE END OF THE MICROPILE BETWEEN 1 AND 10 MINUTES OF LOAD HOLDING EXCEEDS 0.04 INCHES, THE TEST HOLD TIME SHALL BE EXTENDED FOR AN AN ADDITIONAL 50 MINUTES. THUS, THE TOTAL MOVEMENT SHALL BE MEASURED AT 15, 20, 25, 30, 45, AND 60 MINUTES;
4. A TEST SHALL BE CONSIDERED ACCEPTABLE WHEN (1) A CREEP RATE LESS THAN 0.04 INCHES PER LOG CYCLE OF TIME BETWEEN THE 1 AND 10 MINUTE READINGS ARE OBSERVED DURING CREEP TESTING AND THE RATE IS LINEAR OR DECREASING THROUGHOUT THE CREEP TEST LOAD HOLD PERIOD OR 0.08 INCHES PER LOG CYCLE OF TIME BETWEEN THE 10 AND 60 MINUTE. AND (2) A PULLOUT FAILURE DOES NOT OCCUR DURING TESTING. PULLOUT FAILURE IS DEFINED AS THE LOAD AT WHICH ATTEMPTS TO INCREASE THE TEST LOAD SIMPLY RESULT IN CONTINUED PULLOUT MOVEMENT OF THE MICROPILE.

VERIFICATION TEST LOADING PROCEDURE:

1. ONE (1) MICROPILE SHALL BE VERIFICATION TESTED AND UNLOADED IN ACCORDANCE WITH THE FOLLOWING SCHEDULE.
2. THE ALIGNMENT LOAD (AL) SHOULD BE THE MINIMUM LOAD REQUIRED TO ALIGN THE TESTING APPARATUS AND SHALL NOT EXCEED 0.05DL. THE DIAL GAUGES SHOULD BE ZEROED AFTER THE ALIGNMENT LOAD IS APPLIED.

LOAD	HOLD TIME
AL	1 MINUTES
0.15DL	1 MINUTES
0.30DL	1 MINUTES
0.45DL	1 MINUTES
AL	1 MINUTES
0.15DL	1 MINUTES
0.45DL	1 MINUTES
0.60DL	1 MINUTES
0.75DL	1 MINUTES
0.90DL	1 MINUTES
1.00DL	1 MINUTES
1.15DL	1 MINUTES
1.30DL	10-60 MINUTES (CREEP TEST LOAD HOLD)
1.45DL	1 MINUTES
AL	1 MINUTES
0.15DL	1 MINUTES
1.45DL	1 MINUTES
1.60DL	1 MINUTES
1.75DL	1 MINUTES
1.90DL	1 MINUTES
2.00DL	1 MINUTES
AL	

3. EACH LOAD INCREMENT SHALL BE HELD FOR AT LEAST 1 MINUTE FOR PROOF TESTING. THE TEST MICROPILE SHALL BE MONITORED FOR CREEP FOR 10 MINUTES AT THE 1.30 DL INCREMENT. MOVEMENT DURING THE CREEP PORTION OF THE TEST SHALL BE MEASURED AND RECORDED AT 1, 2, 3, 4, 5, 6, AND 10 MINUTES. IF MOVEMENT AT THE END OF THE MICROPILE BETWEEN 1 AND 10 MINUTES OF LOAD HOLDING EXCEEDS 0.04 INCHES, THE TEST HOLD TIME SHALL BE EXTENDED FOR AN AN ADDITIONAL 50 MINUTES. THUS, THE TOTAL MOVEMENT SHALL BE MEASURED AT 15, 20, 25, 30, 45, AND 60 MINUTES;
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City of Portland
Reviewed for Code Compliance
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Permit #: 24-020319-STR-01-CO

☒ NO EXCEPTIONS TAKEN ☐ REVISE AND RESUBMIT
☐ MAKE CORRECTIONS NOTED ☐ REVIEW NOT REQUIRED

This review is only for general conformance with the design concept and the information given in the Construction Documents. Corrections or comments made on the submittal during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Review of a specific item shall not include review of an assembly of which the item is a component. The Contractor is responsible for: dimensions to be confirmed and correlated at the jobsite; information that pertains solely to the fabrication processes or to the means, methods, techniques, sequences and procedures of construction; coordination of the Work with that of all other trades and performing all Work in a safe and satisfactory manner.

kpff
KPFF Consulting Engineers
Date 07/09/2024
By Nick Saari, SE

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CONTRACTORS AND ENGINEERS
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REGISTERED PROFESSIONAL ENGINEER
102858PE
OREGON
MAY 09, 2023
JESSEE L. BOGENOFF
EXPIRES: 12/31/25

DESIGNED BY:	DRAWN BY:	REVIEWED BY:
JB	SP	JB

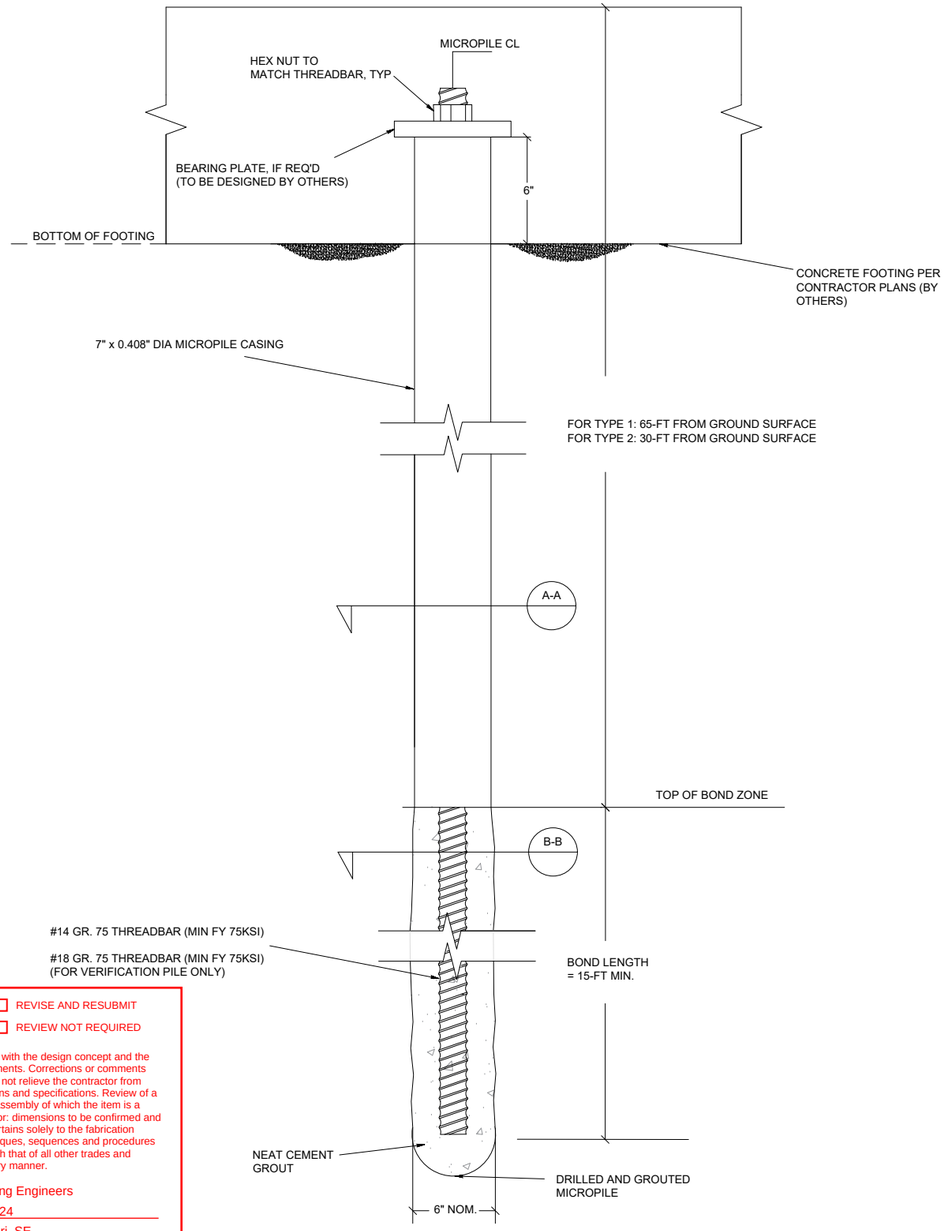
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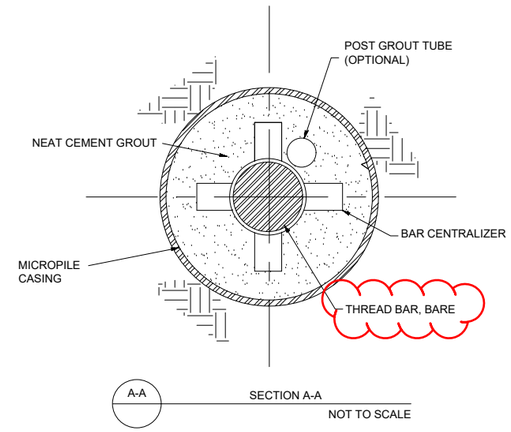
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1	05/24/2024		REVISION 1
2	07/02/2024		REVISION 2

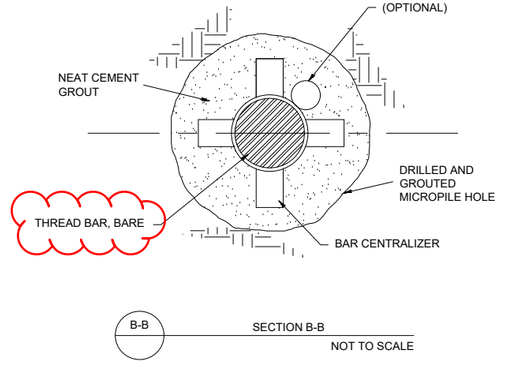
PROJECT:	LOCATION:	SCALE:
PCC SYLVANIA HT WEST RENOVATION	PORTLAND, OREGON	NTS
OWNER:	GENERAL CONTRACTOR:	JOB NUMBER:
PORTLAND COMMUNITY COLLEGE	FORTIS CONSTRUCTION, INC	24018

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07/02/2024	MP-01







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DESIGNED BY:	DRAWN BY:	REVIEWED BY:
JB	SP	JB

REGISTERED PROFESSIONAL ENGINEER
102656PE
OREGON
MAY 09, 2023
JESSEE L. BOGENOFF
EXPIRES: 12/31/25

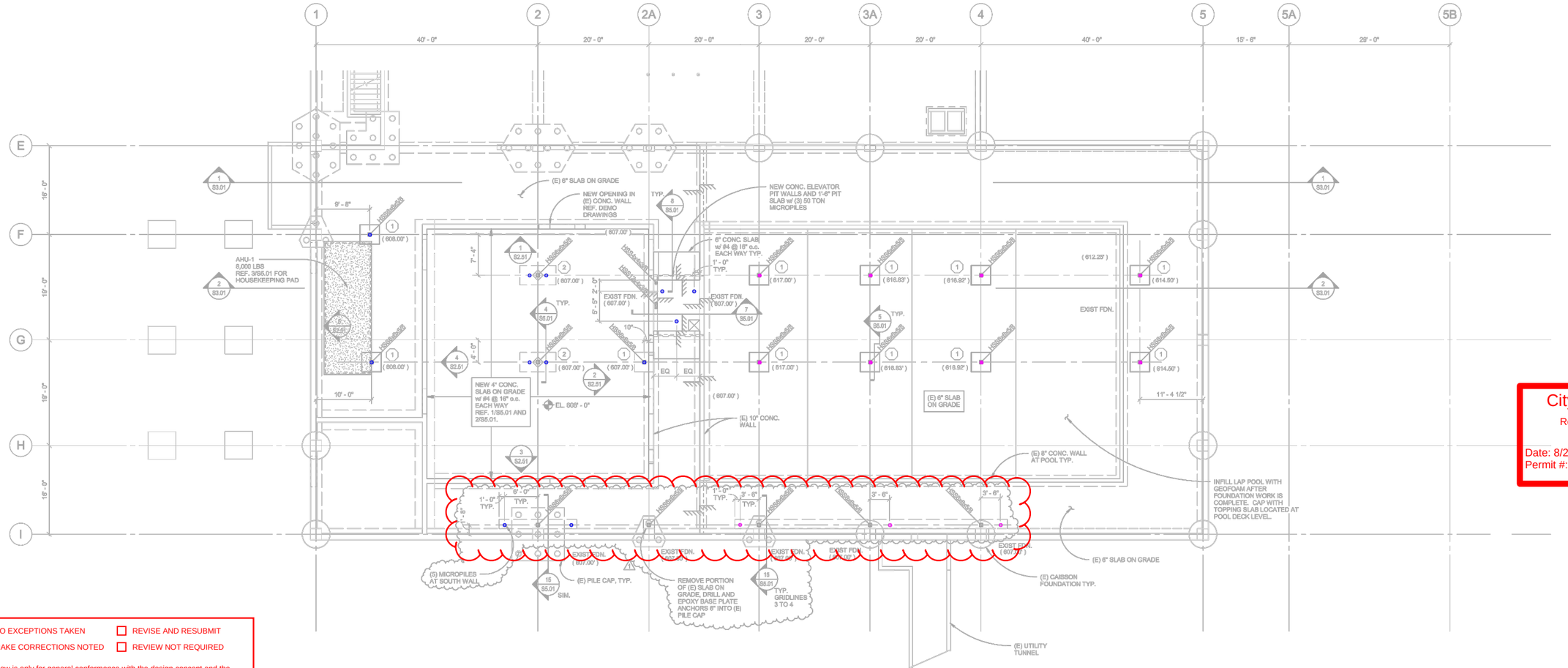
DRAWING:
MICROPILE DETAILS

No.	DATE	BY	REVISIONS
0	03/01/2024		FOR REVIEW
1	05/24/2024		REVISION 1
2	07/02/2024		REVISION 2

PROJECT:	LOCATION:	SCALE:
PCC SYLVANIA HT WEST RENOVATION	PORTLAND, OREGON	NTS
OWNER:	**GENERAL CONTRACTOR:**	**JOB NUMBER:**
PORTLAND COMMUNITY COLLEGE	FORTIS CONSTRUCTION, INC	24018

Use of Proposals and Designs: Any design or proposal prepared and furnished by Condon-Johnson & Associates, Inc. (CJA) including any Value-Engineering proposal or proposal for alternative designs, means and/or methods (collectively "Designs") have been prepared based upon and in anticipation of CJA performing the work called for in such Designs. As such, the Designs are specifically tailored for CJA's purposes and have been prepared for exclusive use by CJA. Owner and/or Contractor shall not use or control the Designs without the prior written consent of an authorized representative of CJA, and then only as an absolutely necessary to perform such permitted use. The Designs are subject to protection under the Copyright Act of 1976 and Architectural Works Copyright Protection Act of 1990. Owner and/or Contractor shall not copy, reproduce, emulate or model the Designs or disclose, publish, or disseminate the Designs to any third parties without the prior written approval of an authorized representative of CJA. CJA is and shall continue to be the sole owner of the Designs.
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DATE:	SHEET NUMBER:
07/02/2024	MP-02



City of Portland
Reviewed for Code Compliance
Date: 8/21/2024
Permit #: 24-020319-STR-01-CO

- [X] NO EXCEPTIONS TAKEN
- [ ] REVISE AND RESUBMIT
- [ ] MAKE CORRECTIONS NOTED
- [ ] REVIEW NOT REQUIRED

This review is only for general conformance with the design concept and the information given in the Construction Documents. Corrections or comments made on the submittal during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Review of a specific item shall not include review of an assembly of which the item is a component. The Contractor is responsible for: dimensions to be confirmed and correlated at the jobsite; information that pertains solely to the fabrication processes or to the means, methods, techniques, sequences and procedures of construction; coordination of the Work with that of all other trades and performing all Work in a safe and satisfactory manner.

kpff

KPFF Consulting Engineers

Date 07/09/2024

By Nick Saari, SE

LEGEND (NTS):

- MICROPILE TYPE 1
- MICROPILE TYPE 2

CONDON · JOHNSON & ASSOCIATES, INC.
CONTRACTORS AND ENGINEERS

GROUND IMPROVEMENTS, DEEP FOUNDATIONS, MICROPILES, DRILLED SHAFTS AND SHORING
Oakland | Seattle | Los Angles | San Diego | Portland
Address: 9012 South 208th Street, Kent, WA, 98031
Tel: (425) 988-2150 Fax: (425) 988-2151

REGISTERED PROFESSIONAL ENGINEER
102656PE
OREGON
MAY 09, 2023
JESSEE L. BOGENOFF
EXPIRES: 12/31/25

DESIGNED BY:	DRAWN BY:	REVIEWED BY:
JB	SP	JB

DRAWING: MICROPILE PLAN VIEW

No.	DATE	BY	REVISIONS
0	03/01/2024		FOR REVIEW
1	05/24/2024		REVISION 1
2	07/02/2024		REVISION 2

PROJECT: PCC SYLVANIA HT WEST RENOVATION

LOCATION: PORTLAND, OREGON

SCALE: NTS

OWNER: PORTLAND COMMUNITY COLLEGE

GENERAL CONTRACTOR: FORTIS CONSTRUCTION, INC

JOB NUMBER: 24018

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DATE: 07/02/2024

SHEET NUMBER: MP-03

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OVERHEAD PROTECTION CANOPY NOTES:

B

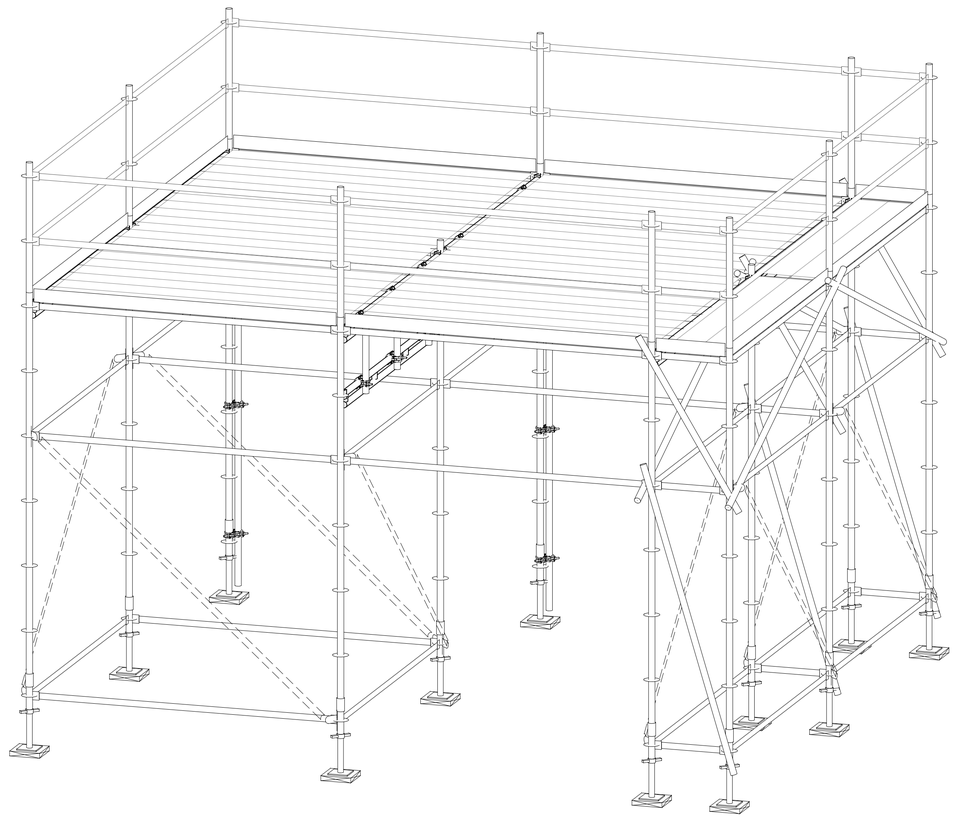
1. PROTECTION CANOPY DESIGNED USING DSS SYSTEMS SCAFFOLD COMPONENTS, WITH DESIGN VALUES AS PROVIDED IN THE DSS ENGINEERING CATALOG (2015).
2. WORKER ACCESS AND/OR STORAGE IS NOT PERMISSIBLE ON CANOPY PLATFORM WITHOUT INCREASING THE UNIFORM LIVE LOAD CAPACITY.
3. MAXIMUM CALCULATED CANOPY LEG LOAD = 10,376 LBS.
4. HORIZONTAL FRAME SPACING SHALL NOT EXCEED SPACING SHOWN IN PLANS.

DESIGN CRITERIA:

1. DESIGN WORK ON THIS PROJECT HAS BEEN COMPLETED IN ACCORDANCE WITH THE FOLLOWING CODES:
   OSSC 2022
   ASCE 7-16
2. OVERHEAD PROTECTION LOADING :
   UNIFORM LIVE LOAD: 150 PSF
3. WIND SPEED:
   RISK CATEGORY: II
   EXPOSURE CATEGORY: C
   DESIGN WIND SPEED: 97 MPH

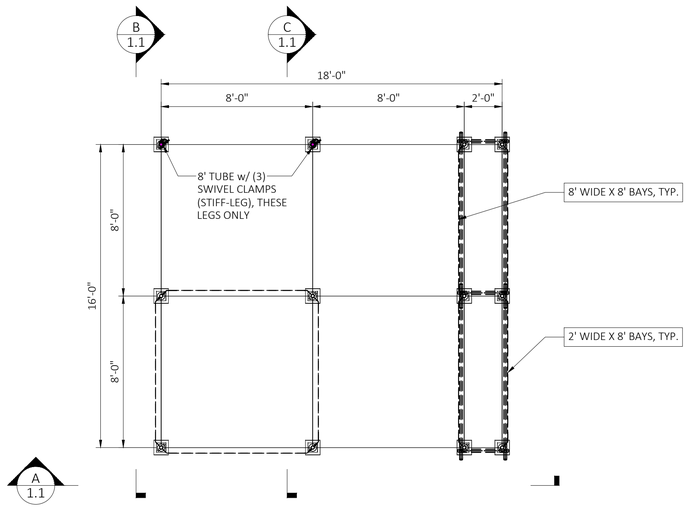
GENERAL PROJECT NOTES:

1. "BSD" SHALL REFER TO BLACK SHEEP DRAFTING, INC.
2. "CONTRACTOR" SHALL REFER TO NORTHWEST SCAFFOLD SERVICE INC..
3. "OTHERS" SHALL REFER TO THE GENERAL CONTRACTOR OR RESPONSIBLE PARTY FOR THE PROJECT.
4. ANY OVERALL PROJECT DETAILS NOT SPECIFIED IN THIS DRAWING SET ARE NOT THE RESPONSIBILITY OF BSD.
5. A SET OF THE LATEST PLANS SHALL BE ON SITE DURING CONSTRUCTION.
6. DIMENSIONED OR CALLED-OUT MEASUREMENTS SHALL BE USED IN LIEU OF SCALED MEASUREMENTS.
7. THE DESIGN HEREIN IS VALID ONLY FOR THE PROJECT, LOCATION AND PHASE LISTED AND SHALL NOT BE RE-CREATED FOR ANY OTHER SITUATIONS.
8. CONTRACTOR IS TO CONFIRM ALL SIZES, DIMENSIONS & ELEVATIONS PRIOR TO ORDERING OR ERECTING EQUIPMENT.
9. ALL ACCESS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH ALL APPLICABLE SITE, LOCAL, STATE & FEDERAL CODES AND OSHA REGULATIONS.
10. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE NO SCAFFOLD OR SHORING LOADS BEAR IN AREAS WITH UNDERGROUND UTILITIES.
11. IF ANY DISCREPANCIES THAT IMPACT CONSTRUCTION ARE OBSERVED BETWEEN THIS DRAWING SET AND FIELD CONDITIONS, CONTRACTOR SHALL STOP WORK AND CONTACT BSD WITH THE DISCREPANCY.



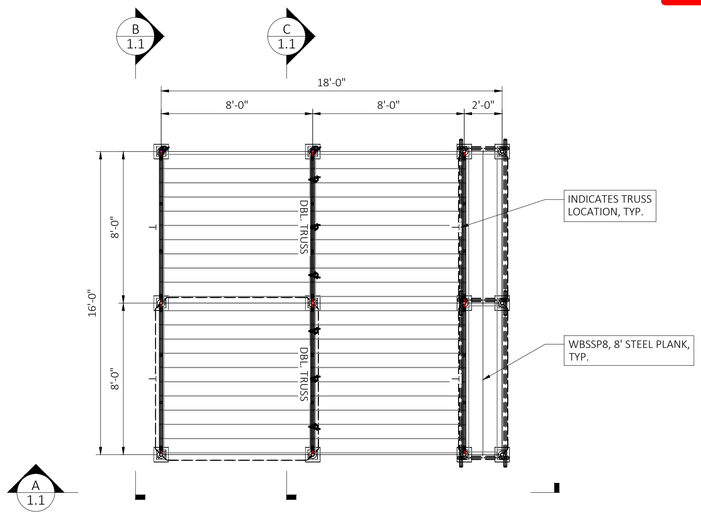
3 ISOMETRIC VIEW

SCALE: NOT TO SCALE (N.T.S.)



1 PEDESTRIAN CANOPY PLAN VIEW - FRAMING

SCALE: ¼" = 1'-0" 0' 2' 4' 8'



2 PEDESTRIAN CANOPY PLAN VIEW - TOP DECK

SCALE: ¼" = 1'-0" 0' 2' 4' 8'

BLACK SHEEP DRAFTING
11157 W GLADIOLA ST
STAR, IDAHO 83669
707.564.7469
BLACKSHEEPDRAFTING@GMAIL.COM

BLACK SHEEP

REGISTERED PROFESSIONAL ENGINEER
84093PE
OREGON
MARCH 09, 2018
JEFFREY MICHAEL PRITCHETT
08/30/2024
EXPIRES: 12-31-24

Project:
FORTIS PCC OVERHEAD PROTECTION CANOPY

12000 SW 49TH AVE
PORTLAND, OR 97219

Sheet Title:
GENERAL NOTES
PLAN VIEWS &
ISOMETRIC VIEW

City of Portland
Reviewed for Code Compliance
Date: 8/21/2024
Permit #: 24-020319-STR-01-CO

Client:
NORTHWEST SCAFFOLD

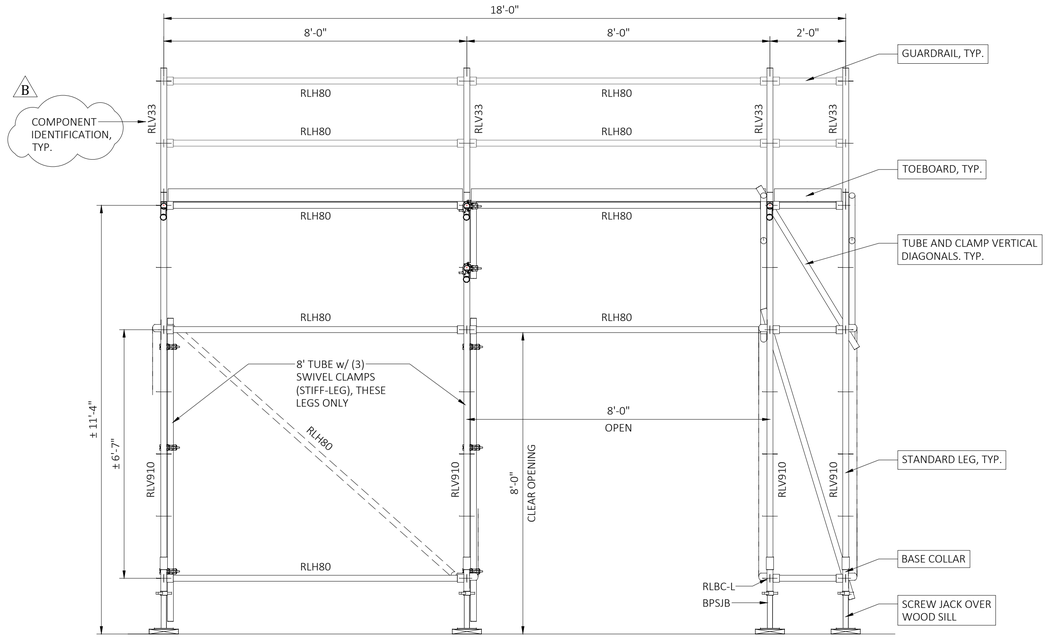
9200 NE HALSEY STREET
PORTLAND, OR 97220

General Contractor:
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Revision:	By:
A, PLAN CHECK, 7-31-24	JMP
B, PLAN CHECK, 8-2-24	JMP
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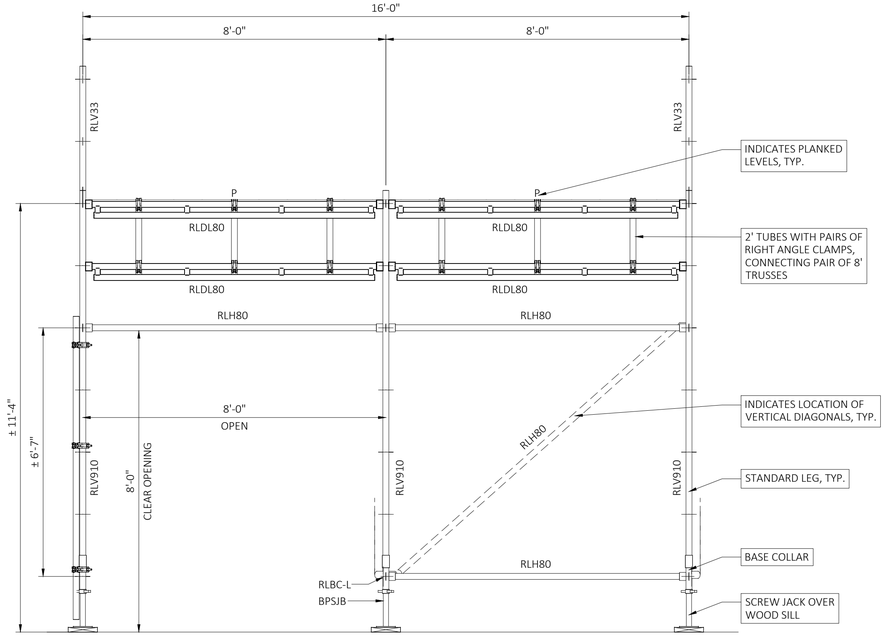
Drawn By:	JCV
Checked:	JMP
Date:	7-4-2024
Scale:	As Shown
Job #:	24067
Sheet #:	1.1

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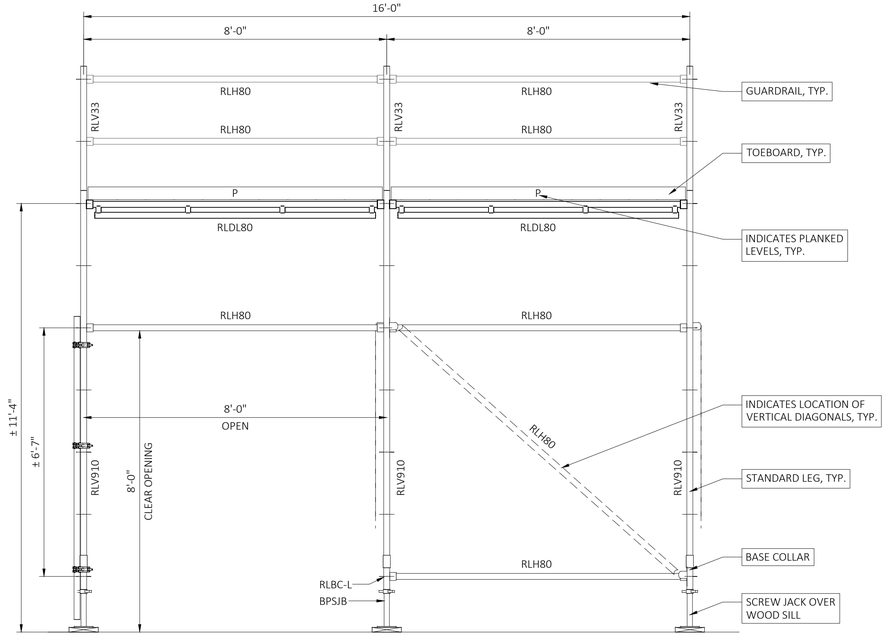
A SECTION VIEW

SCALE: ½" = 1'-0" 0' 1' 2' 4'



C SECTION VIEW

SCALE: ½" = 1'-0" 0' 1' 2' 4'



B SECTION VIEW

SCALE: ½" = 1'-0" 0' 1' 2' 4'

BLACK SHEEP DRAFTING
11157 W GLADIOLA ST
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707.564.7469
BLACKSHEEPDRAFTING@GMAIL.COM

REGISTERED PROFESSIONAL ENGINEER
84093PE
OREGON
MARCH 09, 2018
JEFFREY MICHAEL PRITCHETT
08/30/2024
EXPIRES: 12-31-24

Project:
FORTIS PCC OVERHEAD PROTECTION CANOPY

12000 SW 49TH AVE
PORTLAND, OR 97219

Sheet Title:
SECTION VIEWS

City of Portland
Reviewed for Code Compliance
Date: 8/21/2024
Permit #: 24-020319-STR-01-CO

Client:
NORTHWEST SCAFFOLD

9200 NE HALSEY STREET
PORTLAND, OR 97220

General Contractor:
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Revision:	By:
A, PLAN CHECK, 7-31-24	JMP
B, PLAN CHECK, 8-2-24	JMP
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Drawn By: JCV
Checked: JMP
Date: 7-4-2024
Scale: As Shown
Job #: 24067
Sheet #: 1.1