



STORM KING ART CENTER
POND PAVILION

50% CONSTRUCTION DOCUMENTS DRAWING SET
NOVEMBER 6, 2020

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Storm King Art Center
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Key Plan

Description	Date
50% Design Development	02/24/20
100% Design Development	05/29/20
50% Construction Documents	11/06/20

Project

Storm King
Art Center
Pond Pavilion

Seal

NOT FOR CONSTRUCTION

Drawing Title
Cover Sheet

Date	11/06/20
Scale	Not to Scale
Drawing Number	A-P-000
Sheet Size	ARCH D

SHEET NUMBER	SHEET NAME	DESIGN DEVELOPMENT - 50%	DESIGN DEVELOPMENT - 100%	CONSTRUCTION DOCUMENTS - 50%	CONSTRUCTION DOCUMENTS - 90%	PERMIT SET
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A-P-006	Fire Ratings & Egress Distances		•	•		
A-P-007	Fire Extinguisher Locations			•		
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S-P-001	Structural Symbols and Abbreviations	•	•	•		
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E-P-002	General Notes	•	•	•		
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E-P-101	Power Plan - Ground Level	•	•	•		
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FA-P-101	Fire Alarm Plan - Ground Level			•		
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IT-P-101	Telecom Plan - Ground Level			•		
IT-P-201	Telecom RCP - Ground Level			•		
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IT-P-900	Site Plan - Property - Telecom			•		

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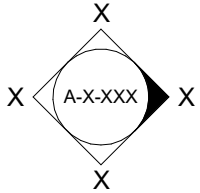
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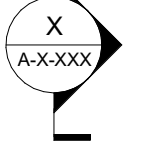
General Notes

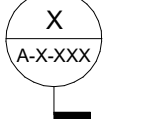
- No work shall commence without first obtaining any required permits or approvals from applicable regulating agencies of the State of New York and Town of Cornwall.
- All work shall comply with the requirements of the State Uniform Fire Prevention and Building Code of the Codes Rules and Regulations of the State of New York and any other applicable state regulations.
- All work shall comply with the Zoning Law of the Town of Cornwall and any other applicable local regulations.
- All work relating to waste water disposal shall be approved by the Town of Cornwall and shall comply with all applicable regulations.
- All work shall be performed by contractors and subcontractors licensed to work in the State of New York including, but not limited to, the following trades: general contracting, surveying, site work, concrete erection, steel fabrication and erection, general electrical, general plumbing, and mechanical equipment installation.
- All contractors and subcontractors shall carry general liability and worker's compensation insurance as required by the Town of Cornwall, the State of New York and other regulating agencies. Contractors and subcontractors shall provide certificates of insurance. The Contractor shall file all applications, pay for all necessary permits and secure certificates of occupancy for the Work.
- All necessary provisions for installation of primary electrical service shall be made in conjunction with and to the required specifications of the Local Gas and Electric Companies.
- All materials for construction located on site shall be segregated and neatly stored out of the path of construction operations and shall be protected from damage by all hazards including weather, ground moisture and construction activities until use.
- Unless otherwise indicated, all material furnished and incorporated into the Work shall be new, unused and of quality standard to the industry for first class work of similar nature and character. Materials shall be installed in accordance with the manufacturers' recommendations and best standard of the trades involved.
- The Contractor shall be responsible for the protection of all existing buildings and other installations that are to remain intact while performing the Work.
- Where adjacent structures are occupied or to be preserved, the Contractor shall take every precaution to safeguard the structural integrity of the walls, roofing, entrance and exit of the adjacent building and to provide, if required, temporary waterproofing and parging to protect it. The Contractor shall also take every precaution to ensure that damage, noise, dust and interruptions to adjacent structures will be kept to a minimum.
- The Contractor shall visit the site and be knowledgeable of conditions thereon, comply with Specification Sections in Division 1 and 2 for specific requirements for survey of existing site conditions and conduct of excavation and ensuing construction activities prior to proceeding with the Work.
- The Contractor shall verify accuracy of survey information and shall perform additional site surveys to ensure accurate placement of buildings on the site. See survey for geo-location information. All dimensions shall have preference over scale. Do not scale these drawings.
- All dimensions shall be verified in the field prior to proceeding with the Work. The Architect shall be notified of any discrepancies. Plan dimensions are shown to the centerline of columns and the finished face of walls unless noted otherwise. Elevation and section dimensions are shown relative to finish floor levels which are referenced to building elevation above sea level. See survey for elevation information.
- Where discrepancies exist between drawings of various disciplines, notify the Architect of these discrepancies prior to construction. Consult the Architect before proceeding with work in any area requiring clarification. In case of conflict in documents, specifications or general requirements, the most stringent is to be required.
- Details shown are intended to describe scope and profile. Where details have not been provided, the Work is intended to be similar in character to those areas detailed. Where specific dimensions, details or design intent cannot be determined, consult the Architect prior to proceeding with the Work.
- The Work in these drawings in intended to show scope of penetrations, slab and wall openings required to accommodate mechanical, electrical and plumbing trades. However, the Contractor shall coordinate all penetrations, slab and wall openings required by these trades before proceeding with the Work.
- All pipes, bus ducts, risers and other elements that penetrate floor slabs shall be installed in a manner that will preserve the fire resistive and structural integrity of the building.
- Not all Specifications Divisions are referenced on the sheet legend notes. Multiple divisions may apply to each note. Reference the specific specification for related sections.
- Each legend references that particular sheet it is on and may not correspond to other sheets.

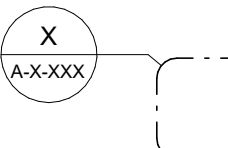
Symbol Legend

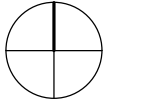
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Building Elevation
- 

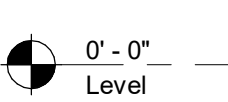
Interior Elevation
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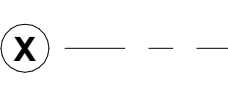
Building Section
- 


Wall Section
- 

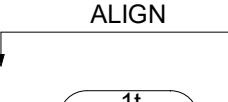
Detail Callout
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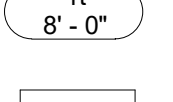
North Arrow
- 


Room Tag
- 

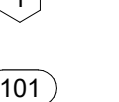
Elevation Marker
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Grid Line
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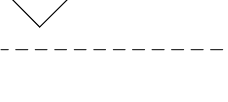
Revision Tag
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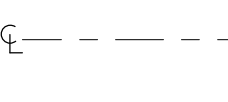
Align
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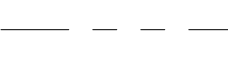
Finish Ceiling Height
- 


Finish Type
- 

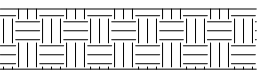
Window Type
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Door Number
- 

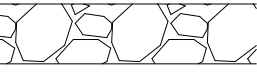
Wall Type
- 

Construction Above
- 

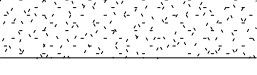
Center Line
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Match Line
- Material Indicators
- 

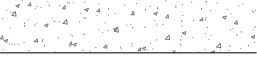
Earth




Rock Fill




Sand, Mortar, Plaster




Concrete



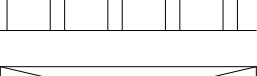
Stone



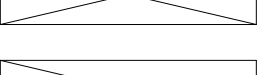
Brick, Masonry



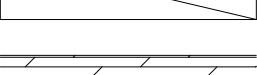
Metal



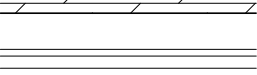
Wood



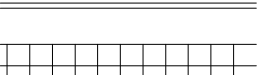
Wood (Continuous)



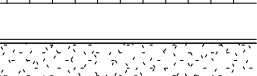
Wood (Blocking)



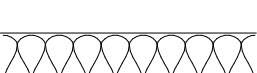
Plywood




Glass




Tile (Dimensional)



Gypsum Board

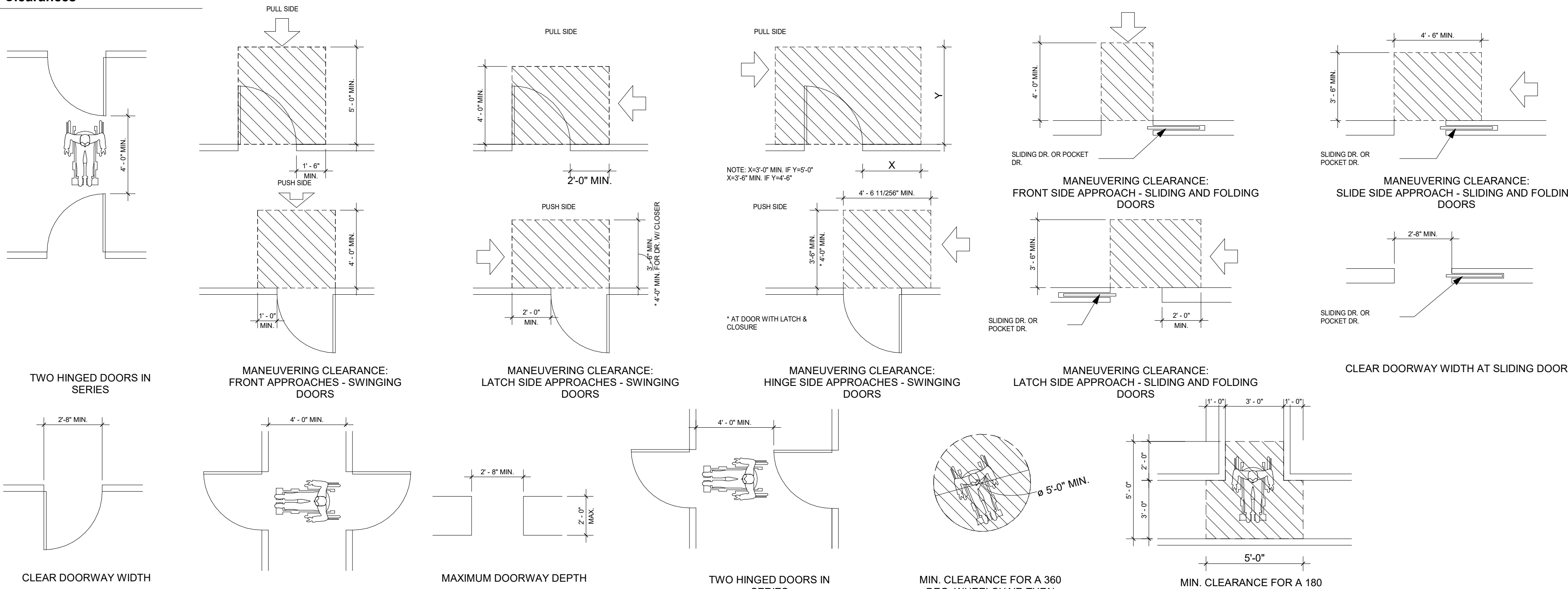


Insulation (Batt, Blanket)

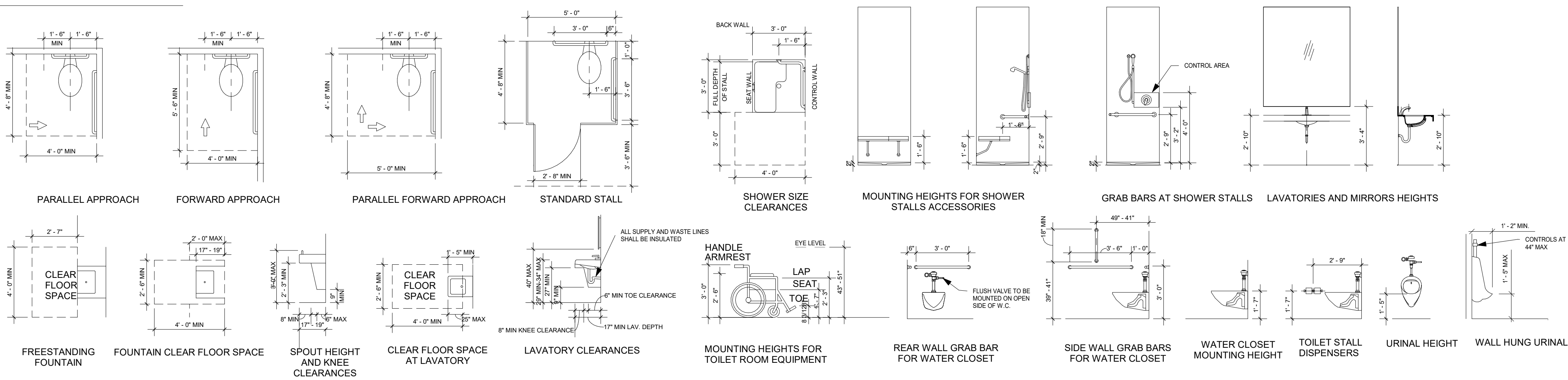


Insulation (Rigid)
- Abbreviations
- | | |
|----------|-------------------------------|
| ADJ | Adjacent or Adjustable |
| AFF | Above Finished Floor |
| ALUM | Aluminum |
| AS REQ'D | As Required |
| BAT | Batten |
| CAB | Cabinet |
| CLG | Ceiling |
| COL | Column |
| CONST | Construction |
| DIAM | Diameter |
| ELEC | Electric(al) |
| EQ | Equal |
| EX | Existing |
| FF | Finished Floor |
| FH | Full Height |
| FM | Field Measure |
| FO | "Face of" or "Finish Opening" |
| GWB | Gypsum Wall Board |
| HC | Hollow Core |
| HDF | High-Density Fiberboard |
| HDWD | Hardwood |
| HM | Hollow Metal |
| LAM | Laminated |
| MDF | Medium-Density Fiberboard |
| MTL | Metal |
| NIC | Not in Contract |
| NTS | Not to Scale |
| OC | On Center |
| OPP HAND | Opposite Hand |
| PH | Partial Height |
| PL GL | Plate Glass |
| PL LAM | Plastic Laminate |
| PLY | Plywood |
| PNL | Panel |
| RO | Rough Opening |
| RVL | Reveal |
| SDL | Saddle |
| SIM | Similar |
| SS | Stainless Steel |
| T&B | Top & Bottom |
| TOH | Top of Head |
| TOS | Top of Sill |
| TYP | Typical |
| UC | Undercut |
| UNO | Unless Otherwise Noted |
| VGB | Vertical Grab Bar |
| VIF | Verify in Field |
| W/ | With |
| W/O | Without |
| WP | Waterproof |
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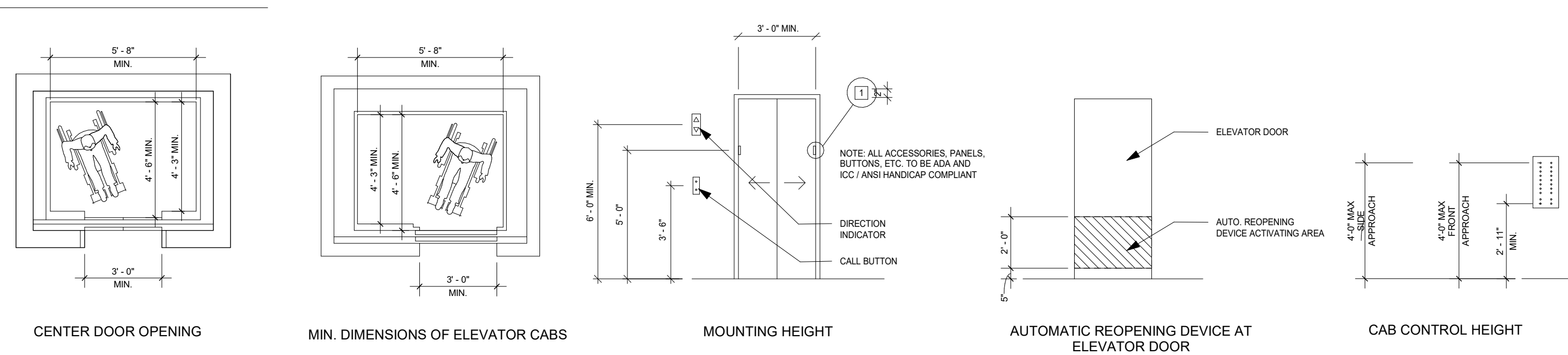
Door Clearances



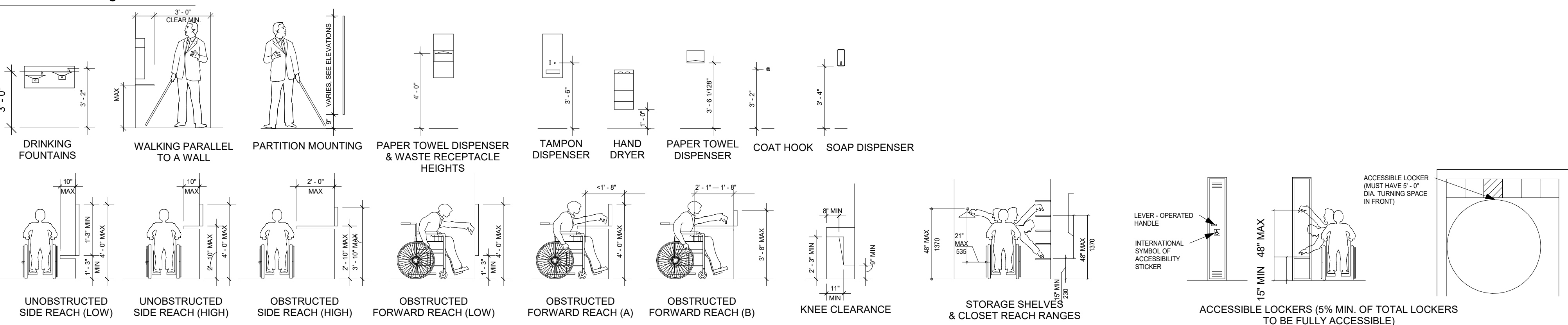
Restrooms



Elevators



Accessible Reach Ranges



Accessibility Summary

Buildings and facilities shall be designed and constructed to be accessible in accordance with the Federal 2010 ADA Standards for Accessible Design. Refer to the 2010 ADA Standards for Accessible Design using chapter reference for clarifications and exceptions.

204 Protruding Objects

Protruding objects on circulation paths shall comply with 307.

210 Stairways

Interior and exterior stairs that are part of a means of egress shall comply with 504.

211 Drinking Fountains

Where drinking fountains are provided on an exterior site, on a floor, or within a secured area they shall be provided in accordance with 211.

213.3 Plumbing Fixtures and Accessories

Plumbing fixtures and accessories provided in a toilet room or bathing room required to comply with 213.2 shall comply with 213.3

213 Toilet Facilities and Bathing Facilities

Where toilet facilities and bathing facilities are provided, they shall comply with 213.

225 Storage

Storage facilities shall comply with 225

227 Sales and Service

Where provided, check-out aisles, sales counters, service counters, food service lines, queues, and waiting lines shall comply with 227 and 904.

303 Changes in Level

Where changes in level are permitted in floor or ground surfaces, they shall comply with 303.

404 Doors, Doorways, and Gates.

Doors, doorways, and gates that are part of an accessible route shall comply with 404.

404.2.4.4 Floor or Ground Surface.

Floor or ground surface within required maneuvering clearances shall comply with 302.

405 Ramps

Ramps on accessible routes shall comply with 405. Changes in level other than the running slope and cross slope are not permitted on ramp runs

407 Elevators

Elevators shall comply with 407 and with ASME A17.1 (incorporated by reference, see "Referenced Standards" in Chapter 1). They shall be passenger elevators as classified by ASME A17.1. Elevator operation shall be automatic.

502 Parking Spaces

Car and van parking spaces shall comply with 502. Where parking spaces are marked with lines, width measurements of parking spaces and access aisles shall be made from the centerline of the markings

505 Handrails

Handrails provided along walking surfaces complying with 403, required at ramps complying with 405, and required at stairs complying with 504 shall comply with 505.

703.7.2 Symbols

The international symbol of accessibility shall comply with figure 703.7.2.1.

802.1 Wheelchair Spaces

Wheelchair spaces shall comply with 802.1.

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Key Plan

Description	Date
100% Design Development	05/29/20
50% Construction Documents	11/06/20

Project

Storm King Art Center Pond Pavilion

Seal

NOT FOR CONSTRUCTION

Drawing Title

Accessibility Summary

Date	11/06/20
Scale	Not to Scale
Drawing Number	A-P-003
Sheet Size	ARCH D

Applicable Codes & Standards

Building Code	2020 Building Code of New York State (adopted from IBC 2018 with amendments) Code of the Town of Cornwall, NY
Energy Conservation Code	2020 Energy Conservation Code of New York State (adopted from IECC 2018 with amendments)
Fire Code	2020 Fire Code of New York State (adopted from IFC 2018 with amendments)
Mechanical Code	2020 Mechanical Code of New York State (adopted from IMC 2018 with amendments)
Plumbing Code	2020 Plumbing Code of New York State (adopted from IPC 2018 with amendments)
Accessibility	2010 ADA Standards
Zoning	Zoning Resolution of the Town of Cornwall, NY

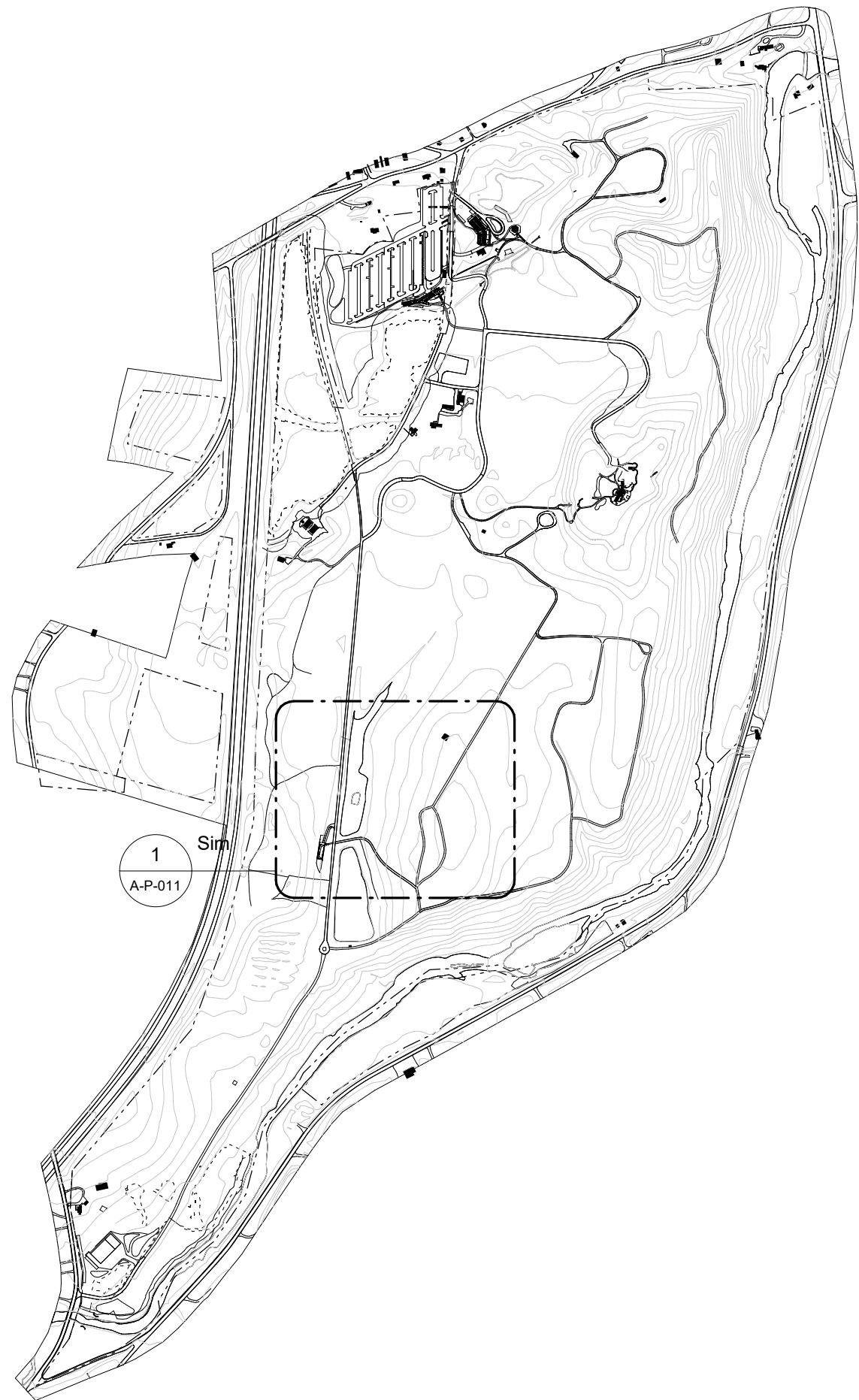
Zoning & Land Use

Section, Block, Lot	30-1-1.1, 30-1-1.4, 30-1-1.5, 30-1-4.22, 30-1-11, 30-1-13, 30-1-14, 30-1-4.2, 30-1-62, 30-1-63, 30-1-64, 30-1-8, 30-1-86, 30-1-87, 30-1-88, 34-1-108, 34-1-9.1, 34-1-9.2, 30-1-9, 34-1-6.1
Zoning District Designation	Mountain and Conservation Residence District (MCR)
Zoning Use Group	Use Group C

Bulk Regulations

	Allowable	Proposed
Minimum Usable Lot Area	5 acres	539 acres
Required Lot Width	200'	>200'
Minimum Front Yard Depth	70'	80'
Required Minimum Side Yard	70'	150'
Required Total Side Yard	140'	525'
Minimum Required Road Frontage	150'	1,300'
Maximum Building Height	40' -0"	10' - 6 1/4"
Maximum Development Coverage	15%	5%
Maximum Building Coverage Percent	4%	0.3%
Floor Area Ratio	0.08	0.0044

Key Plan



Building Classification & Code Summary

Construction Type	Type V-B
Occupancy Classification	B - Business (Food establishments <2,500SF)
Automatic Sprinkler System	Not Provided
Emergency Alarm/Voice Communications	Not Provided
Climate Zone	5A

Chapter 5: General Building Heights and Areas

	Allowable	Proposed	Reference
Maximum Building Height (feet)	40' - 0"	10' - 6 1/4"	504.3
Maximum Building Height (stories)	2	1	504.4
Maximum Allowable Area (A _s)	15,750 SF	1,350 SF	506.2.1
Allowable Area Factor (A _f)	9,000 SF	N/A	506.2
Area Factor Increase (I _f)	75%	N/A	506.3.3

Chapter 6: Types of Construction

	Allowable	Proposed	Reference
Minimum Fire-Resistance Rating Req.			Table 601
Primary Structural Frame	0 hours	N/A	
Exterior Bearing Walls	0 hours	N/A	
Interior Bearing Walls	0 hours	N/A	
Exterior Non-bearing walls/partitions	0 hours	N/A	
Interior Non-bearing walls/partitions	0 hours	N/A	
Floor Construction	0 hours	N/A	
Roof Construction	0 hours	N/A	

Chapter 7: Fire and Smoke Protection Features

	Allowable	Proposed	Reference
Minimum Fire-Resistance Rating Req.			
Fire Walls	2 hours	N/A	706.4a
Fire Barriers	varies	N/A	707
Shaft Enclosures (<4 stories)	1 hour	N/A	713.4
Machine Room Enclosure	1 hour	N/A	3005.4
Interior Exit Stairways	1 hour	N/A	1023.2
Fire Partitions	1 hour	N/A	708.3

Chapter 8: Interior Finishes

	Allowable	Proposed	Reference
Interior Wall and Ceiling Finish Req.			803.1.2
Interior Exit Stairways	B	N/A	Table 803.13b
Corridors	B	N/A	Table 803.13
Exit Access Stairway Enclosures	B	N/A	Table 803.13
Rooms and Enclosed Spaces	C	C or better	Table 803.13

Chapter 9: Fire Protection and Life Safety Systems

	Allowable	Proposed	Reference
Automatic Sprinkler System	Not Required	Not Provided	903.2
Portable Fire Extinguishers (Type A)			906
Min. extinguisher rating	2-A (or two 1-A)		Table 906.3(1)
Max. floor area per unit of A	3,000 SF		Table 906.3(1)
Max. floor area for extinguisher	11,250 SF		Table 906.3(1)
Max. travel distance to extinguisher	75' - 0"		Table 906.3(1)
Portable Fire Extinguishers (Type B)			906
Max. travel distance to extinguisher	30' - 0" (5-B)	N/A	Table 906.3(2)
Max. travel distance to extinguisher	50' - 0" (10-B)	N/A	Table 906.3(2)
Manual Fire Alarm Boxes	Not Required	Not Provided	907.2.2

Chapter 10: Means of Egress

	Allowable	Proposed	Reference
Maximum Common Path of Travel	75' - 0"		Table 1006.2.1
Min. Number of Access to Exits per Story	2	N/A	106.3.3
Maximum Exit Access Travel Distance	200' - 0"		Table 1017.2

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Key Plan

Description	Date
50% Construction Documents	11/06/20

Project

Storm King
Art Center
Pond Pavilion

Seal

NOT FOR CONSTRUCTION
Drawing Title
Code Summary

Date	11/06/20
Scale	As indicated
Drawing Number	A-P-004
Sheet Size	ARCH D

Egress Travel Paths	
Travel Path	Travel Distance
1	46' - 8"
2	7' - 9"
3	45' - 3 3/4"
4	6' - 4 3/4"
5	7' - 1 1/2"
6	5' - 5 3/4"
7	8' - 11 1/2"
FE-1	63' - 7 3/4"
FE-2	66' - 2 3/4"

Life Safety Legend

Path of Travel

Non-Rated Wall

1-Hour Rated Wall

2-Hour Rated Wall

3-Hour Rated Wall

DOOR #

Door Egress Tag

ACTUAL
OCCUPANCY
LOAD PER
WIDTH

CLEAR
WIDTH

MAX OCCUPANCY
LOAD

Area Occupancy Tag

AREA NAME

OCCUPANCY CATEGORY

AREA (SF)

AREA / OCCUPANCY LOAD

Travel Path ID Tag

FE

Fire Extinguisher (Type A) Tag

FE

Fire Extinguisher (Type A-B) Tag

A-2 Assembly

A-3 Assembly

B Business

F-1 Moderate Hazard

M Mercantile

U Utility/Miscellaneous

S-1 Moderate-Hazard Storage

Circulation

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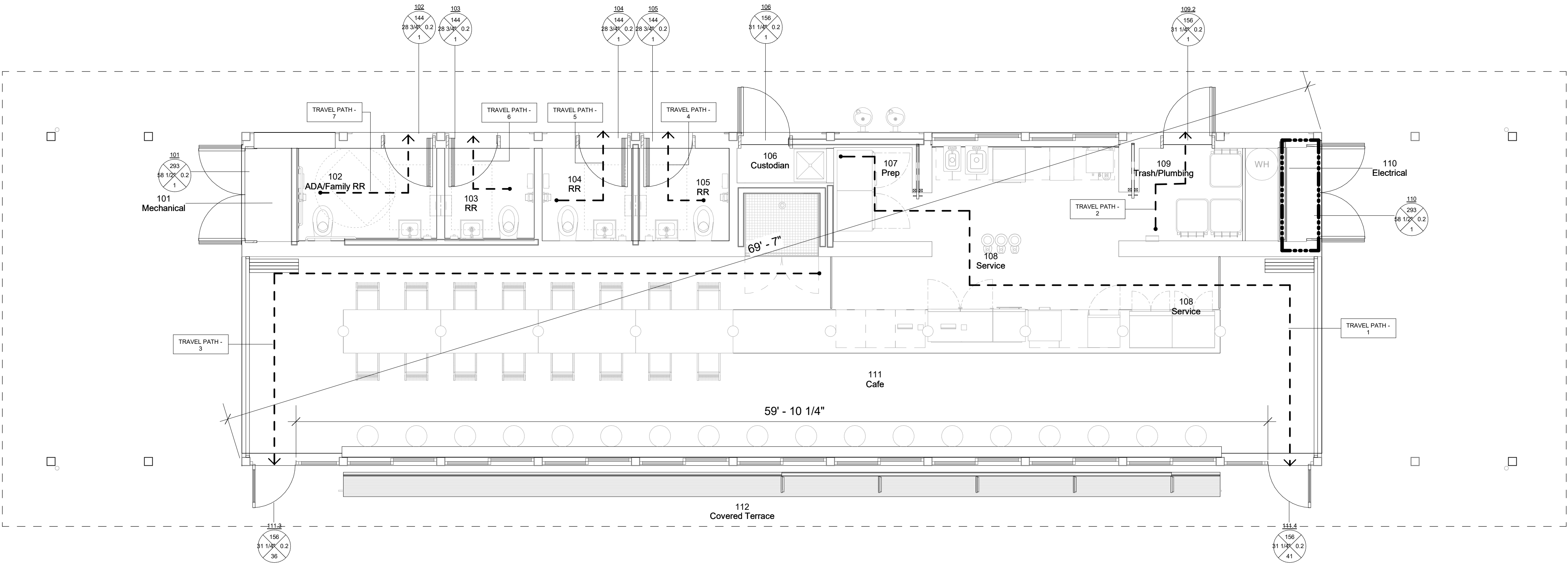
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Key Plan



1 Egress Plan - Ground Level
1/4" = 1'-0"

Description	Date
100% Design Development	05/29/20
50% Construction Documents	11/06/20

Project

Storm King
Art Center
Pond Pavilion

Seal

NOT FOR CONSTRUCTION

Drawing Title

Fire Ratings & Egress
Distances

Date	11/06/20
Scale	As indicated
Drawing Number	A-P-006
Sheet Size	ARCH D

FE Travel Paths	
Travel Path	Travel Distance
FE-1	63' - 7 3/4"
FE-2	66' - 2 3/4"

Life Safety Legend

Path of Travel

Non-Rated Wall

1-Hour Rated Wall

2-Hour Rated Wall

3-Hour Rated Wall

DOOR #

ACTUAL OCCUPANCY WIDTH PER WIDTH

MAX OCCUPANCY LOAD

Door Egress Tag

AREA NAME

OCCUPANCY CATEGORY

AREA (SF)

AREA / OCCUPANCY LOAD

Area Occupancy Tag

TRAVEL PATH

X

Travel Path ID Tag

FE

Fire Extinguisher (Type A) Tag

FE

Fire Extinguisher (Type A-B) Tag

A-2 Assembly

A-3 Assembly

B Business

F-1 Moderate Hazard

M Mercantile

U Utility/Miscellaneous

S-1 Moderate-Hazard Storage

Circulation

1 Fire Extinguisher Plan - Ground Level
1/4" = 1'-0"

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Key Plan

Description	Date
50% Construction Documents	11/06/20

Project

Storm King Art Center Pond Pavilion

Seal

NOT FOR CONSTRUCTION
Drawing Title
Fire Extinguisher
Locations

Date	11/06/20
Scale	As indicated
Drawing Number	A-P-007
Sheet Size	ARCH D



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Key Plan

N	
Description	Date
50% Design Development	02/24/20
100% Design Development	05/29/20
50% Construction Documents	11/06/20

Project

Storm King Art Center Pond Pavilion

Seal

NOT FOR CONSTRUCTION
Drawing Title
Site Plan - Property

Date	11/06/20
Scale	1/64" = 1'-0"
Drawing Number	A-P-011
Sheet Size	ARCH D



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Key Plan

N	
Description	Date
50% Design Development	02/24/20
100% Design Development	05/29/20
50% Construction Documents	11/06/20

Project

Storm King Art Center Pond Pavilion

Seal

NOT FOR CONSTRUCTION
Drawing Title
Site Plan - Building

Date	11/06/20
Scale	1/16" = 1'-0"
Drawing Number	A-P-012
Sheet Size	ARCH D



1 Site Plan - Setting Out
1" = 400'-0"

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Key Plan



Description	Date
50% Design Development	02/24/20
100% Design Development	05/29/20
50% Construction Documents	11/06/20

Project

Storm King
Art Center

Seal

NOT FOR CONSTRUCTION

Drawing Title
Site Plan - Property -
Setting Out

Date	11/06/20
Scale	1" = 400'-0"
Drawing Number	A-X-091
Sheet Size	ARCH D

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Key Plan

Description	Date
50% Construction Documents	11/06/20

Project
Storm King
Art Center
Pond Pavilion

Seal

NOT FOR CONSTRUCTION
Drawing Title
Setting Out - Building

Date	11/06/20
Scale	1/16" = 1'-0"
Drawing Number	A-P-092
Sheet Size	ARCH D

1 Site Plan - Building - Setting Out
1/16" = 1'-0"

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Key Plan

Description	Date
50% Design Development	02/24/20
100% Design Development	05/29/20
50% Construction Documents	11/06/20

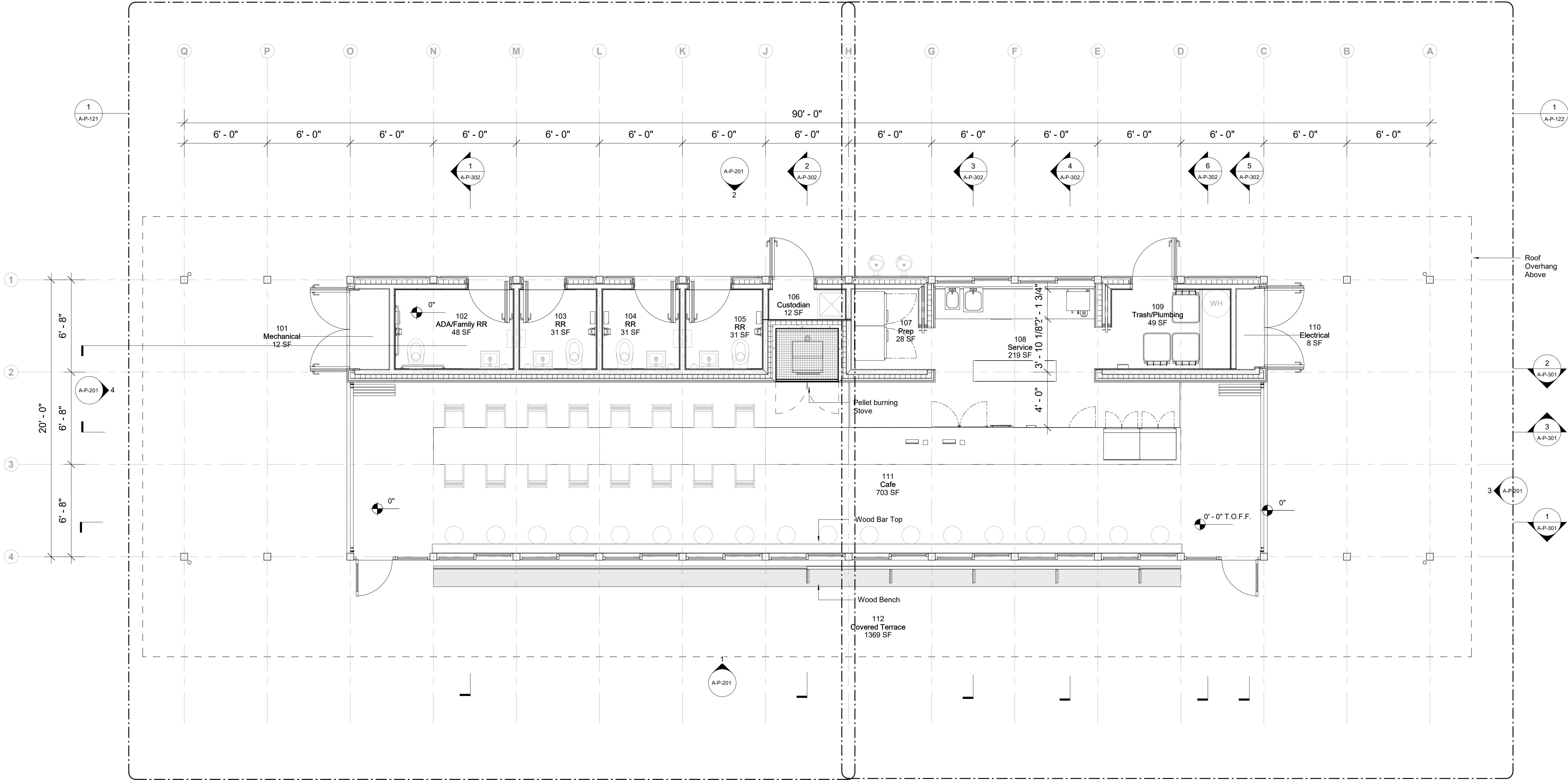
Project

Storm King Art Center Pond Pavilion

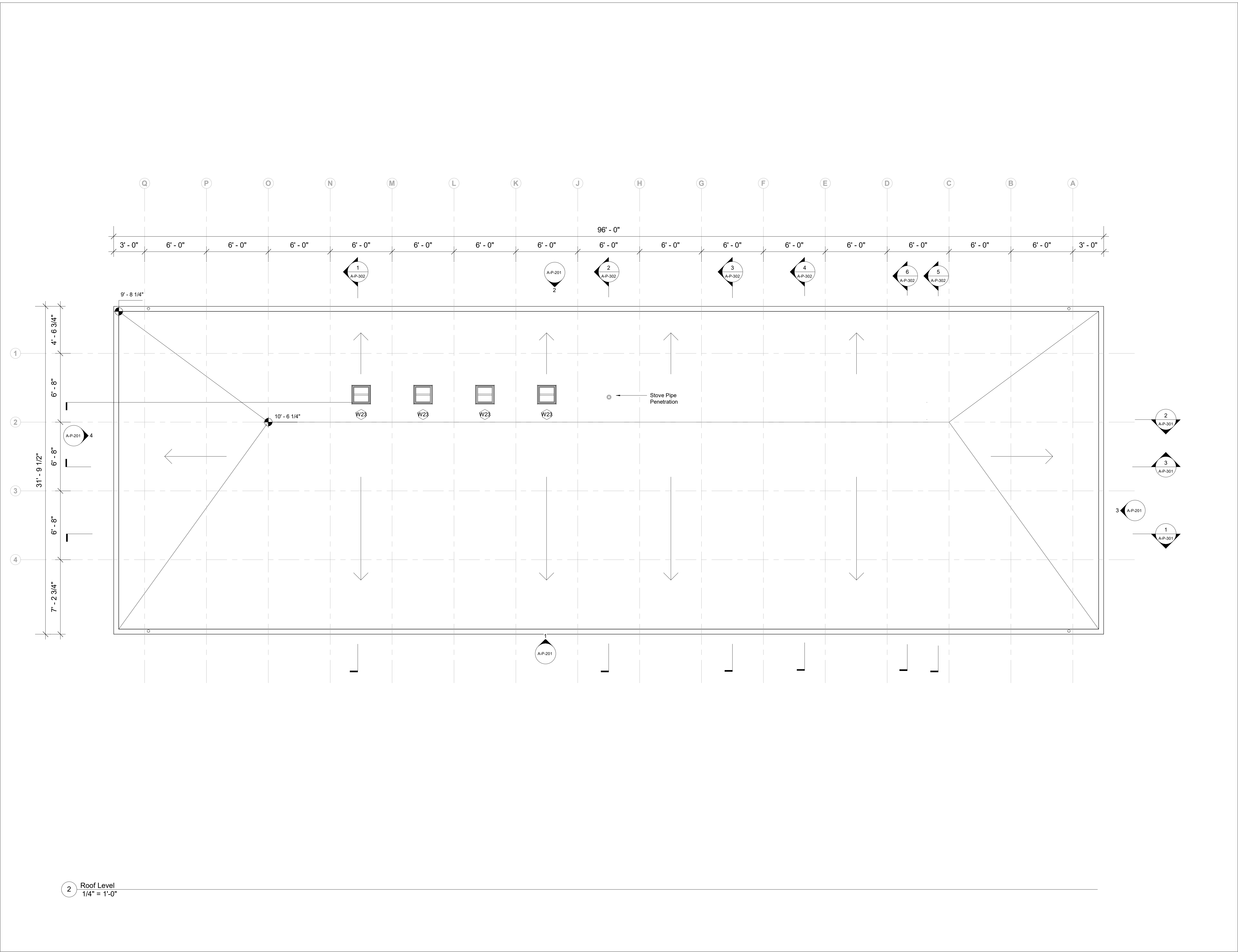
Seal

NOT FOR CONSTRUCTION
Drawing Title
Floor Plan - Ground
Level

Date	11/06/20
Scale	1/4" = 1'-0"
Drawing Number	A-P-101
Sheet Size	ARCH D



1 Ground Level
1/4" = 1'-0"



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Key Plan

Description	Date
50% Design Development	02/24/20
100% Design Development	05/29/20
50% Construction Documents	11/06/20

Project

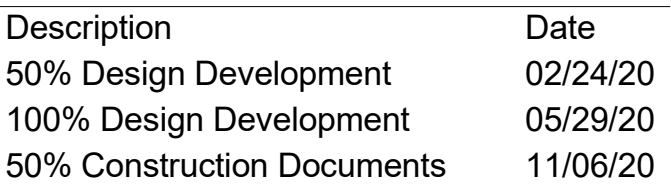
Storm King Art Center Pond Pavilion

Seal

NOT FOR CONSTRUCTION
Drawing Title
Floor Plan - Roof
Level

Date	11/06/20
Scale	1/4" = 1'-0"
Drawing Number	A-P-102
Sheet Size	ARCH D

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Facade Front Inc. 100 E. Broadway Street, #501 New York, NY 10002 +1 (212) 242-2220
Key Plan



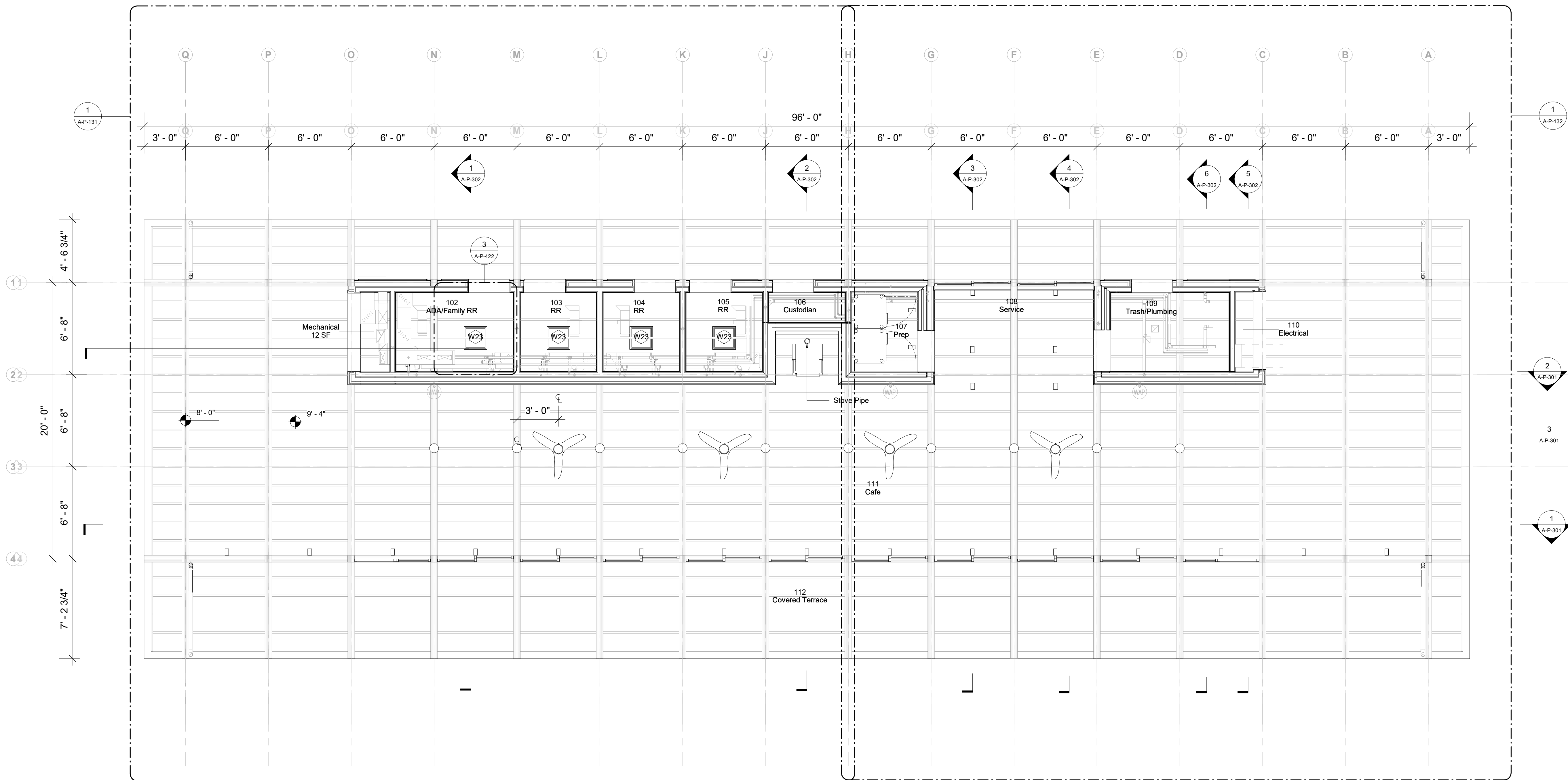
Project
Storm King
Art Center
Pond Pavilion

Seal

NOT FOR CONSTRUCTION

Drawing Title
RCP - Ground Level

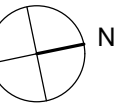
Date	11/06/20
Scale	1/4" = 1'-0"
Drawing Number	A-P-111
Sheet Size	ARCH D



1 Ground Level
1/4" = 1'-0"

Keynote Legend	
Keynote	Description

Owner Storm King Art Center 1 Museum Road New Windsor, NY 12553 +1 (845) 534-3115
Design Architect heneghan peng architects 14-16 Lord Edward Street Dublin, D02 YC63 +353 1 633 9000
Executive Architect WXY Architecture + Urban Design 224 Centre Street, 5th Floor New York, NY 10013 +1 (212) 219-1953
Landscape Architect Gustafson Porter + Bowman 1 Cobham Mews London, MW1 9SB +44 020 7284 8950
Reed Hilderbrand LLC 33 Whitney Avenue, 3rd Floor New Haven, CT 06510 +1 (617) 923-2422
Structural & Lighting ARUP 77 Water Street New York, NY 10005 +1 (212) 896-3000
MEPF & IT BuroHappold 100 Broadway #23 New York, NY 10005 +1 (212) 616-0228
Civil VHB 100 Great Oaks Blvd., Suite 118 Albany, NY 12203 +1 (518) 389-3606
AV & Acoustics LSTN Consultants 76 Beaver Street, 2nd Floor New York, NY 10005 +1 (347) 788-0810
Facade Front Inc. 100 E. Broadway Street, #501 New York, NY 10002 +1 (212) 242-2220
Key Plan



Description	Date
50% Construction Documents	11/06/20

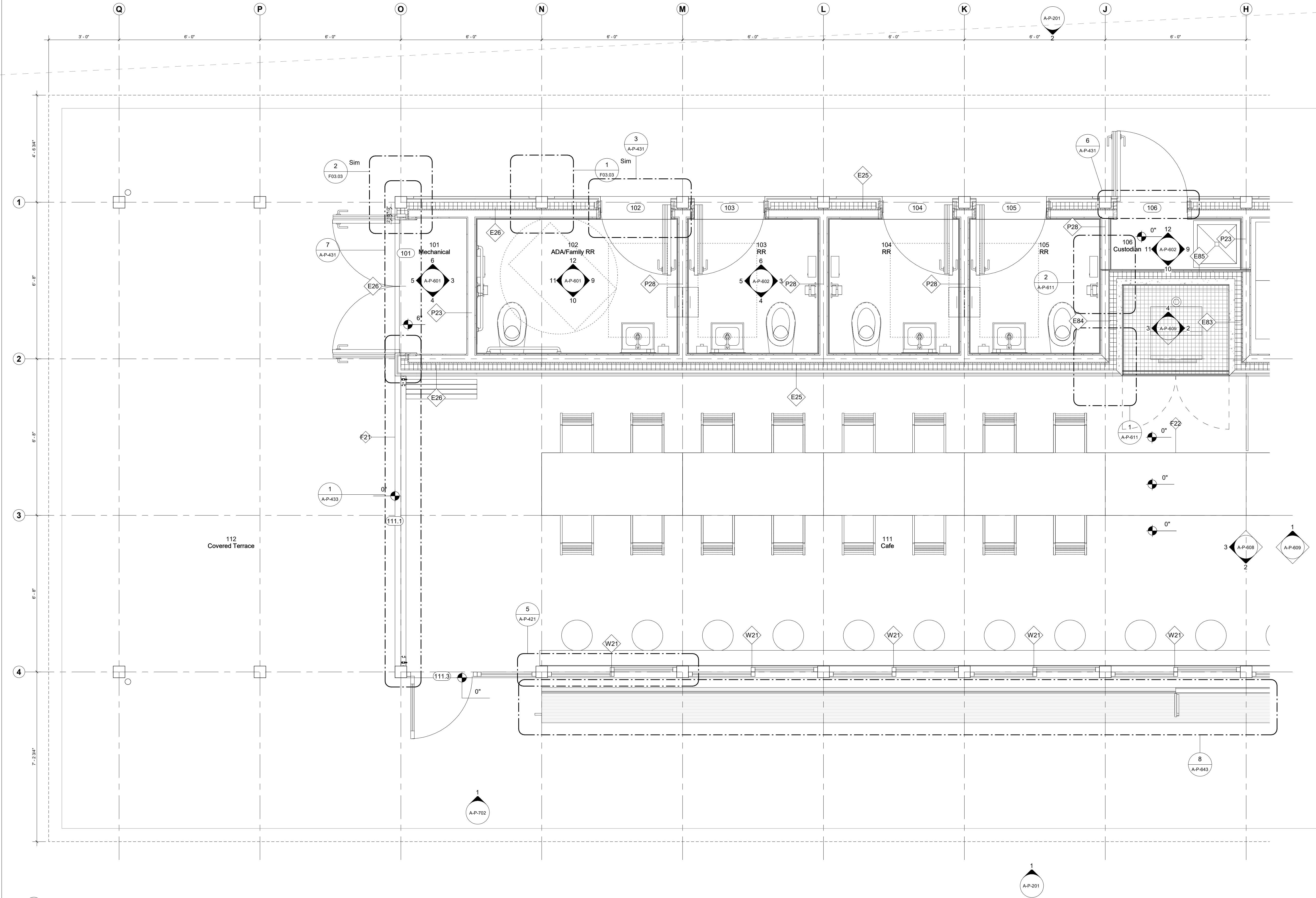
Project

Storm King Art Center Pond Pavilion

Seal

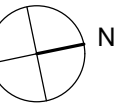
NOT FOR CONSTRUCTION
Drawing Title
**Enlarged Plan -
Ground Level**

Date	11/06/20
Scale	1/2" = 1'-0"
Drawing Number	A-P-121
Sheet Size	ARCH D



Keynote Legend	
Keynote	Description

Owner Storm King Art Center 1 Museum Road New Windsor, NY 12553 +1 (845) 534-3115
Design Architect heneghan peng architects 14-16 Lord Edward Street Dublin, D02 YC63 +353 1 633 9000
Executive Architect WXY Architecture + Urban Design 224 Centre Street, 5th Floor New York, NY 10013 +1 (212) 219-1953
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Structural & Lighting ARUP 77 Water Street New York, NY 10005 +1 (212) 896-3000
MEPF & IT BuroHappold 100 Broadway #23 New York, NY 10005 +1 (212) 616-0228
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AV & Acoustics LSTN Consultants 76 Beaver Street, 2nd Floor New York, NY 10005 +1 (347) 788-0810
Facade Front Inc. 100 E. Broadway Street, #501 New York, NY 10002 +1 (212) 242-2220
Key Plan



Description	Date
50% Construction Documents	11/06/20

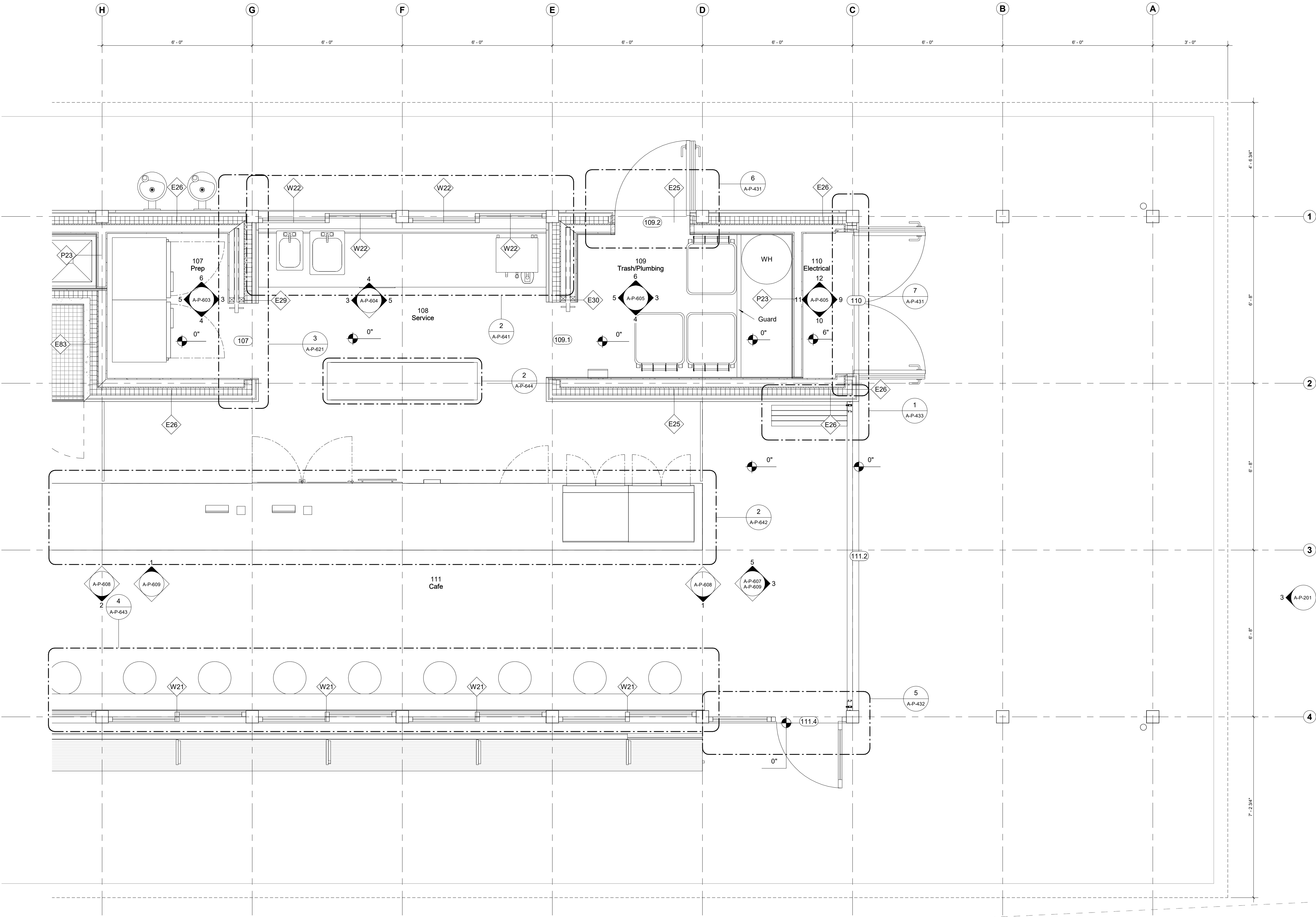
Project

Storm King Art Center Pond Pavilion

Seal

NOT FOR CONSTRUCTION
Drawing Title
**Enlarged Plan -
Ground Level**

Date	11/06/20
Scale	1/2" = 1'-0"
Drawing Number	A-P-122
Sheet Size	ARCH D



1 Enlarged Plan - Ground Level - North
1/2" = 1'-0"

Keynote Legend	
Keynote	Description

Owner
Storm King Art Center
1 Museum Road
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Key Plan



Description	Date
50% Construction Documents	11/06/20

Project

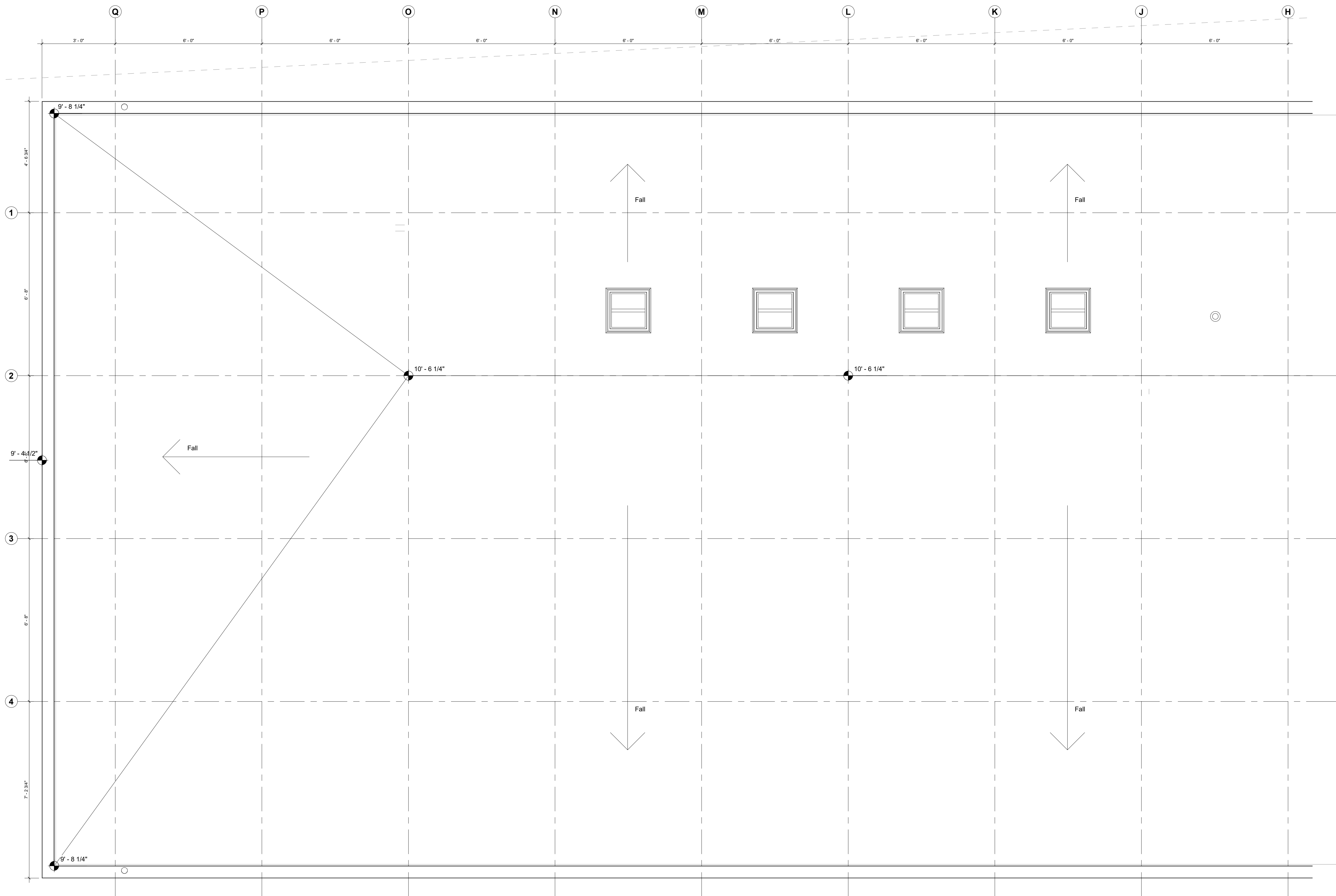
Storm King
Art Center
Pond Pavilion

Seal

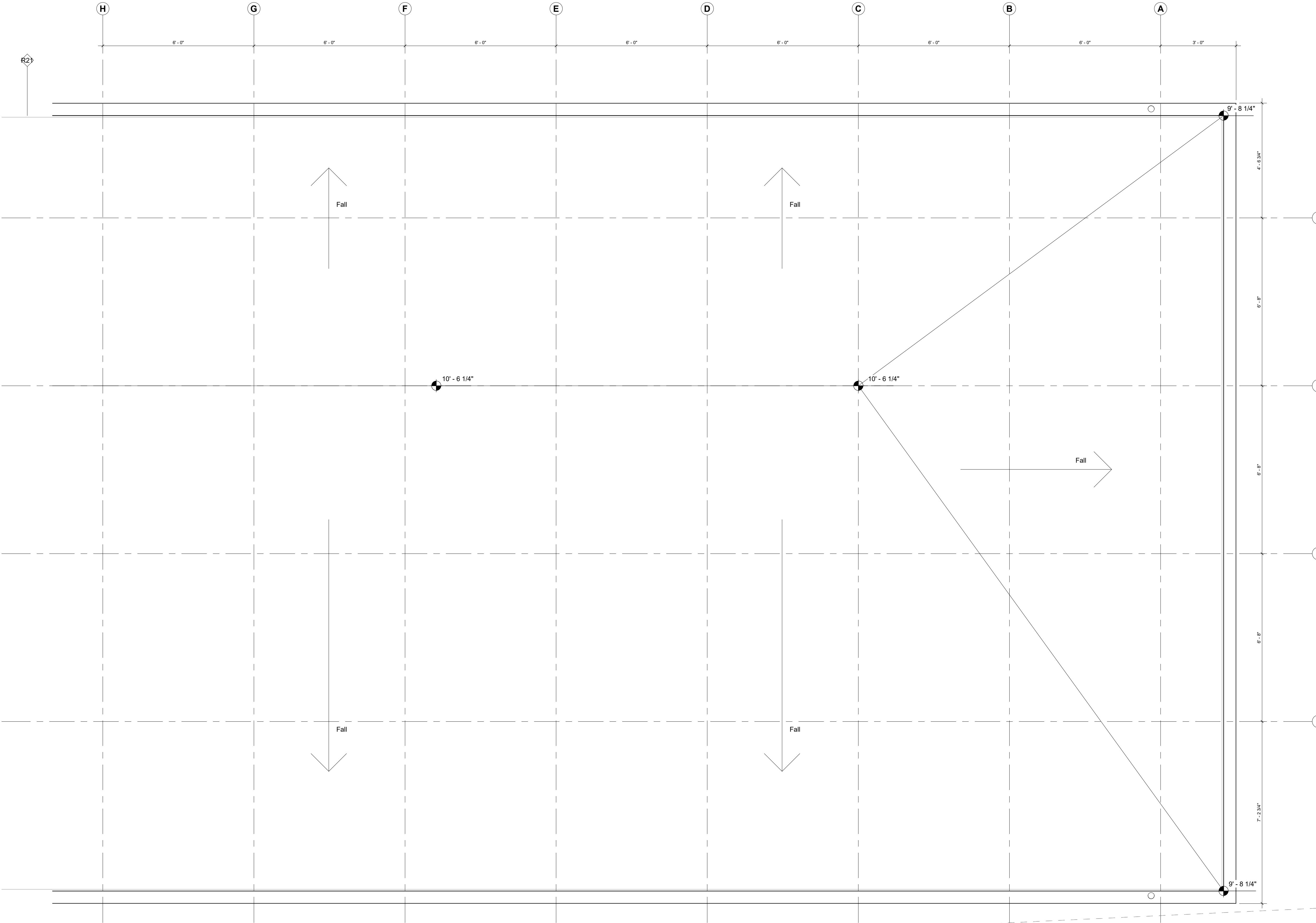
NOT FOR CONSTRUCTION

Drawing Title
Enlarged Plan - Roof
Level

Date	11/06/20
Scale	1/2" = 1'-0"
Drawing Number	A-P-123
Sheet Size	ARCH D



1 Enlarged Plan - Roof Level - South
1/2" = 1'-0"



1 Enlarged Plan - Roof Level - North
1/2" = 1'-0"

Keynote Legend	
Keynote	Description

Owner Storm King Art Center 1 Museum Road New Windsor, NY 12553 +1 (845) 534-3115
Design Architect heneghan peng architects 14-16 Lord Edward Street Dublin, D02 YC63 +353 1 633 9000
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AV & Acoustics LSTN Consultants 76 Beaver Street, 2nd Floor New York, NY 10005 +1 (347) 788-0810
Facade Front Inc. 100 E. Broadway Street, #501 New York, NY 10002 +1 (212) 242-2220
Key Plan



Description	Date
50% Construction Documents	11/06/20

Project

Storm King Art Center Pond Pavilion

Seal

NOT FOR CONSTRUCTION
Drawing Title
Enlarged Plan - Roof
Level

Date	11/06/20
Scale	1/2" = 1'-0"
Drawing Number	A-P-124
Sheet Size	ARCH D

Keynote Legend	
Keynote	Description

Owner
Storm King Art Center
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New York, NY 10005
+1 (212) 896-3000

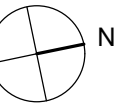
MEPF & IT
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100 Broadway #23
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Key Plan



Description	Date
50% Construction Documents	11/06/20

Project

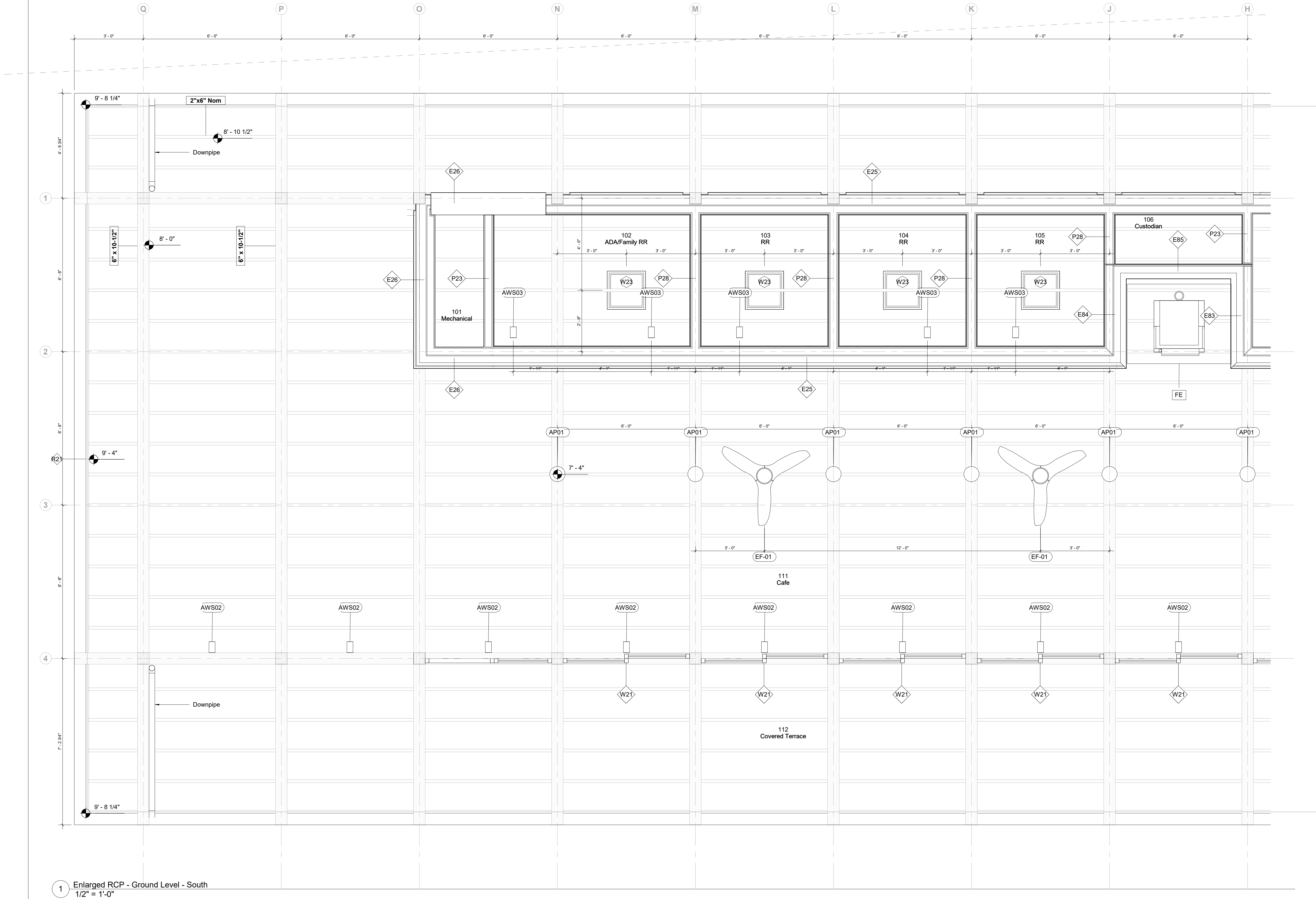
Storm King Art Center Pond Pavilion

Seal

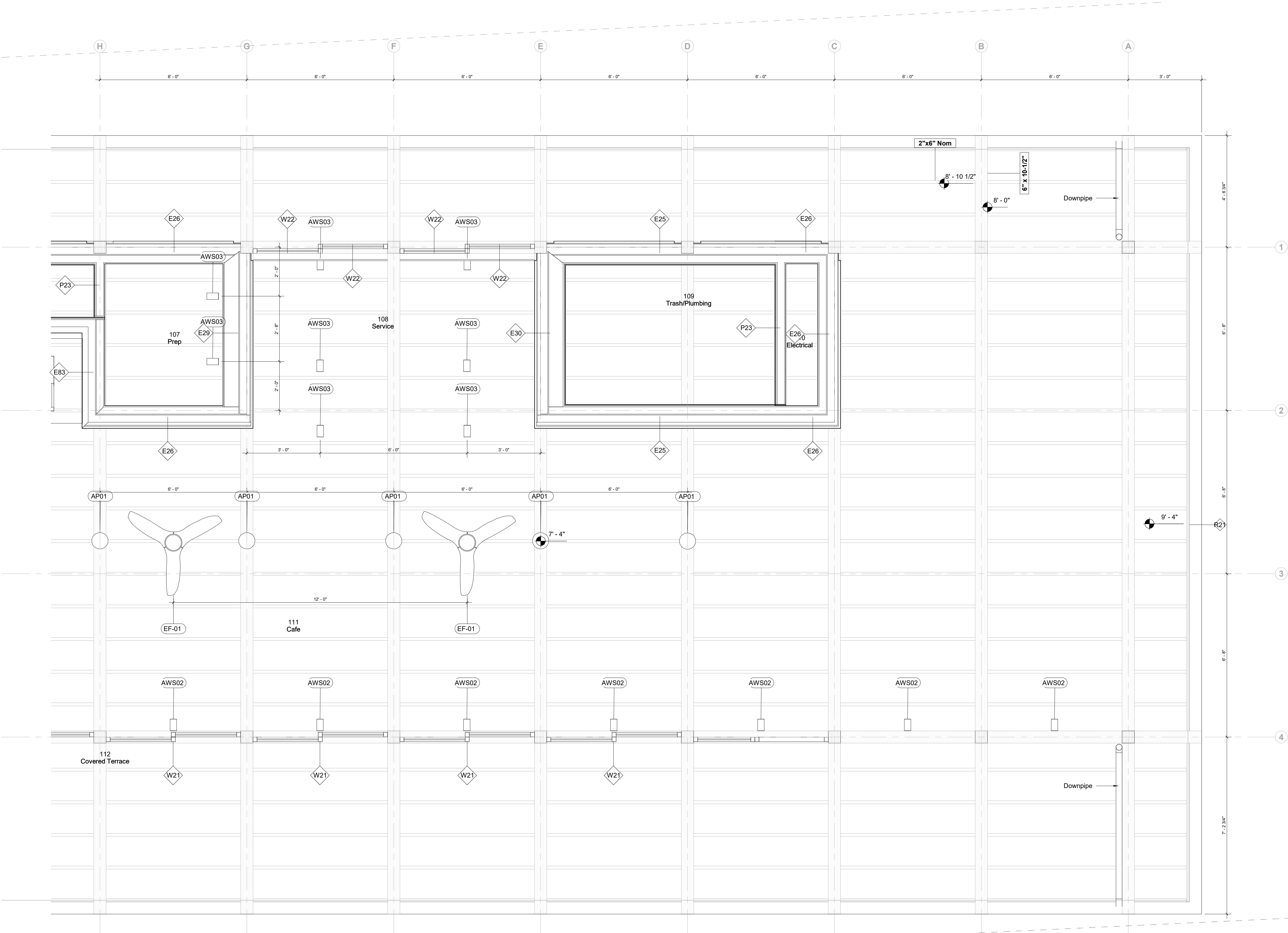
NOT FOR CONSTRUCTION

Drawing Title
Enlarged RCP -
Ground Level

Date	11/06/20
Scale	1/2" = 1'-0"
Drawing Number	A-P-131
Sheet Size	ARCH D



1 Enlarged RCP - Ground Level - South
1/2" = 1'-0"



1 Enlarged RCP - Ground Level - North
1/2" = 1'-0"

Keynote Legend	
Keynote	Description

Owner Storm King Art Center 1 Museum Road New Windsor, NY 12553 +1 (845) 534-3115
Design Architect heneghan peng architects 14-16 Lord Edward Street Dublin, D02 YC63 +353 1 633 9000
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MEPF & IT BuroHappold 100 Broadway #23 New York, NY 10005 +1 (212) 616-0228
Civil VHB 100 Great Oaks Blvd., Suite 118 Albany, NY 12203 +1 (518) 389-3606
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Facade Front Inc. 100 E. Broadway Street, #501 New York, NY 10002 +1 (212) 242-2220
Key Plan



Description	Date
50% Construction Documents	11/06/20

Project

Storm King Art Center Pond Pavilion

Seal

NOT FOR CONSTRUCTION
Drawing Title
**Enlarged RCP -
Ground Level**

Date	11/06/20
Scale	1/2" = 1'-0"
Drawing Number	A-P-132
Sheet Size	ARCH D

Owner
Storm King Art Center
1 Museum Road
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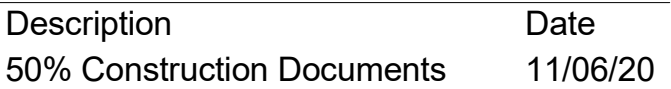
Structural & Lighting
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+1 (212) 242-2220

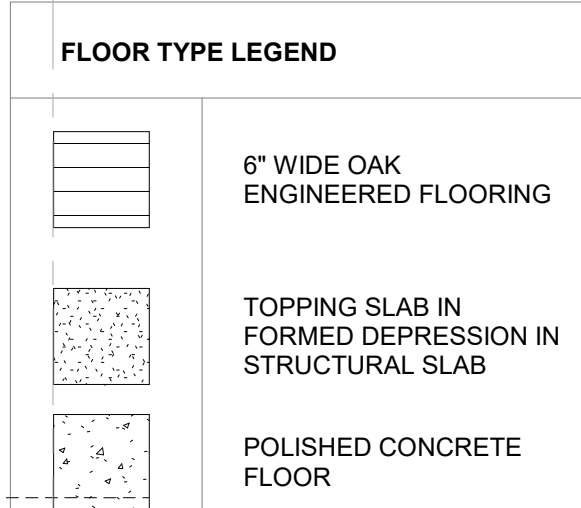


Storm King
Art Center
Pond Pavilion

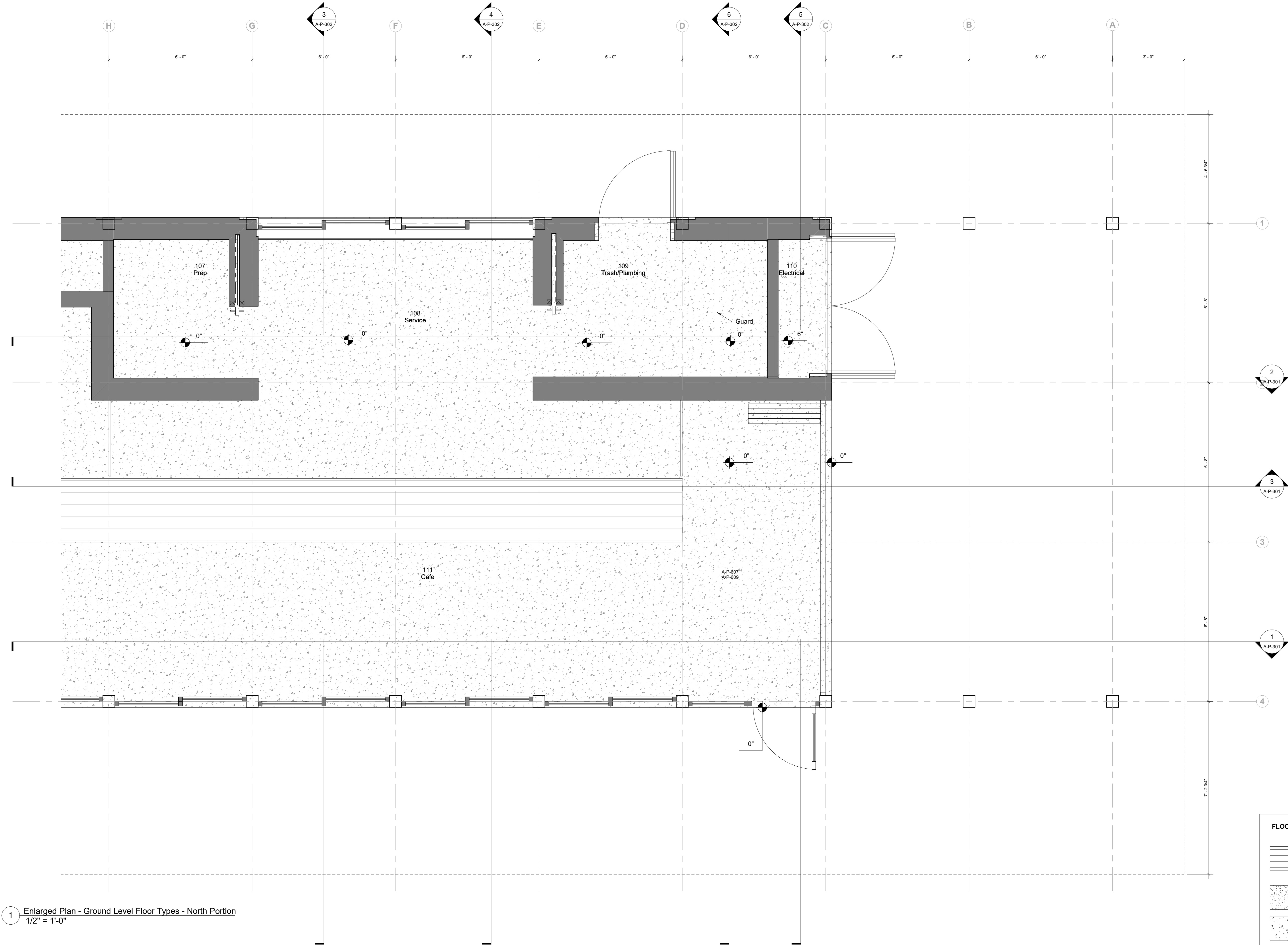
Drawing Title

Finish Floor Plan -
South Portion

Date	11/06/20
Scale	As indicated
Drawing Number	A-P-141
Sheet Size	ARCH D



1 Enlarged Plan - Ground Level Floor Types - South Portion
1/2" = 1'-0"



1 Enlarged Plan - Ground Level Floor Types - North Portion
1/2" = 1'-0"

Keynote Legend	
Keynote	Description

Owner
Storm King Art Center
1 Museum Road
New Windsor, NY 12553
+1 (845) 534-3115

Design Architect
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Reed Hilderbrand LLC
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New Haven, CT 06510
+1 (617) 923-2422

Structural & Lighting
ARUP
77 Water Street
New York, NY 10005
+1 (212) 896-3000

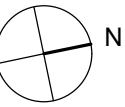
MEPF & IT
BuroHappold
100 Broadway #23
New York, NY 10005
+1 (212) 616-0228

Civil
VHB
100 Great Oaks Blvd., Suite 118
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+1 (347) 788-0810

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100 E. Broadway Street, #501
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+1 (212) 242-2220

Key Plan



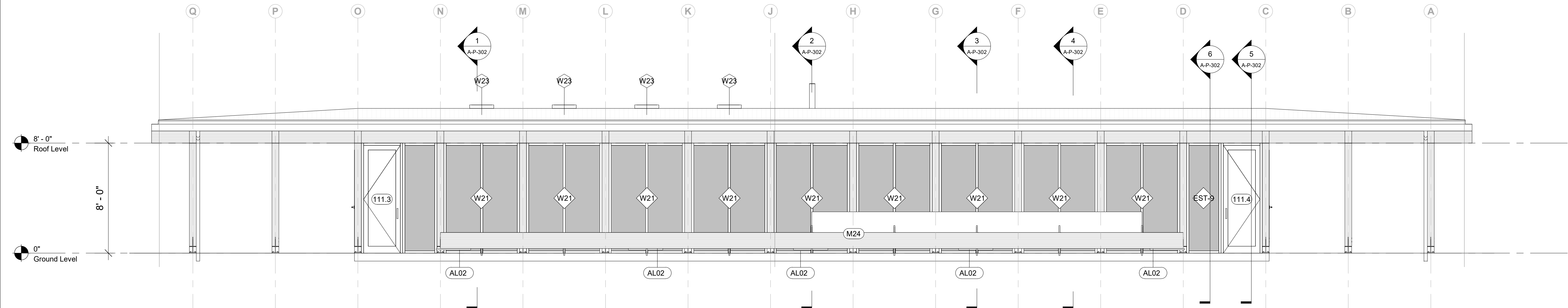
Description	Date
50% Construction Documents	11/06/20

Project
Storm King
Art Center
Pond Pavilion

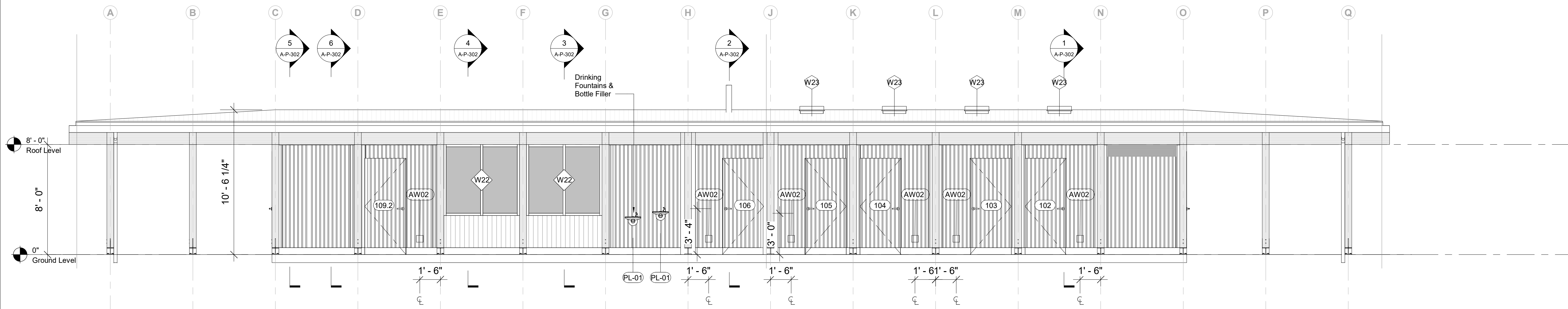
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NOT FOR CONSTRUCTION
Drawing Title
Finish Floor Plan -
North Portion

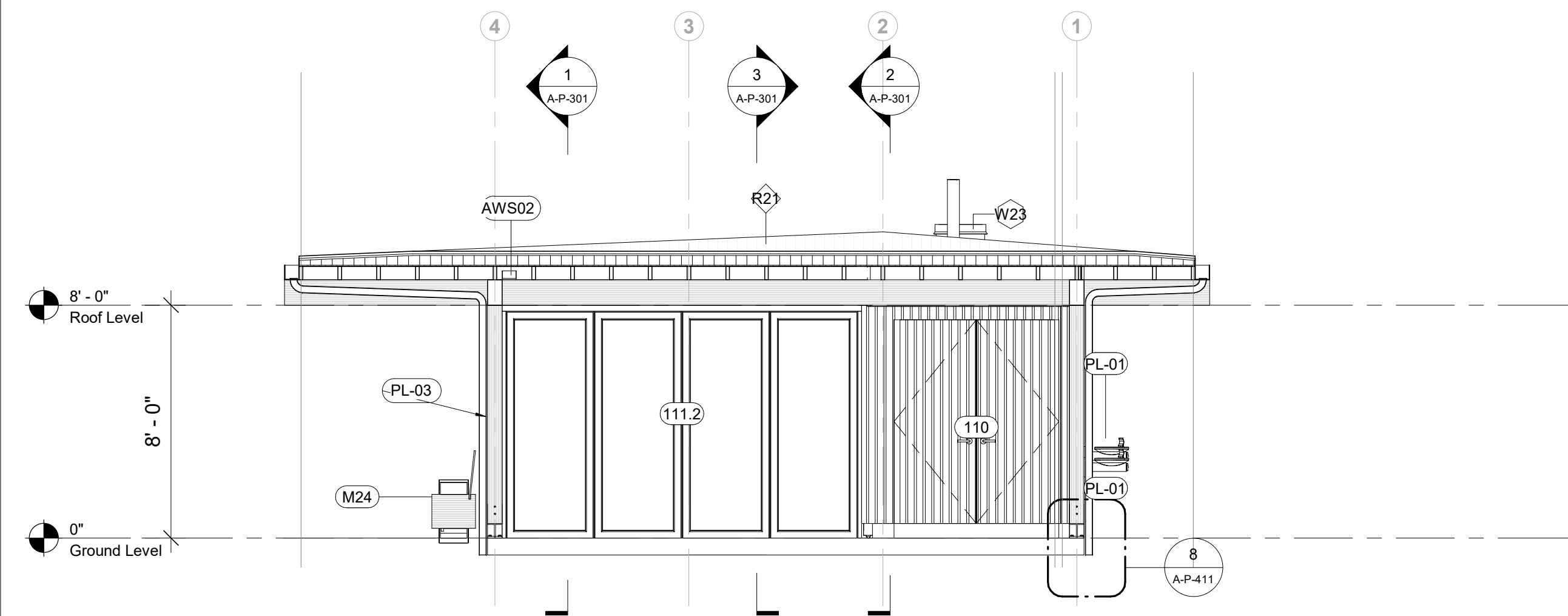
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Drawing Number	A-P-142
Sheet Size	ARCH D



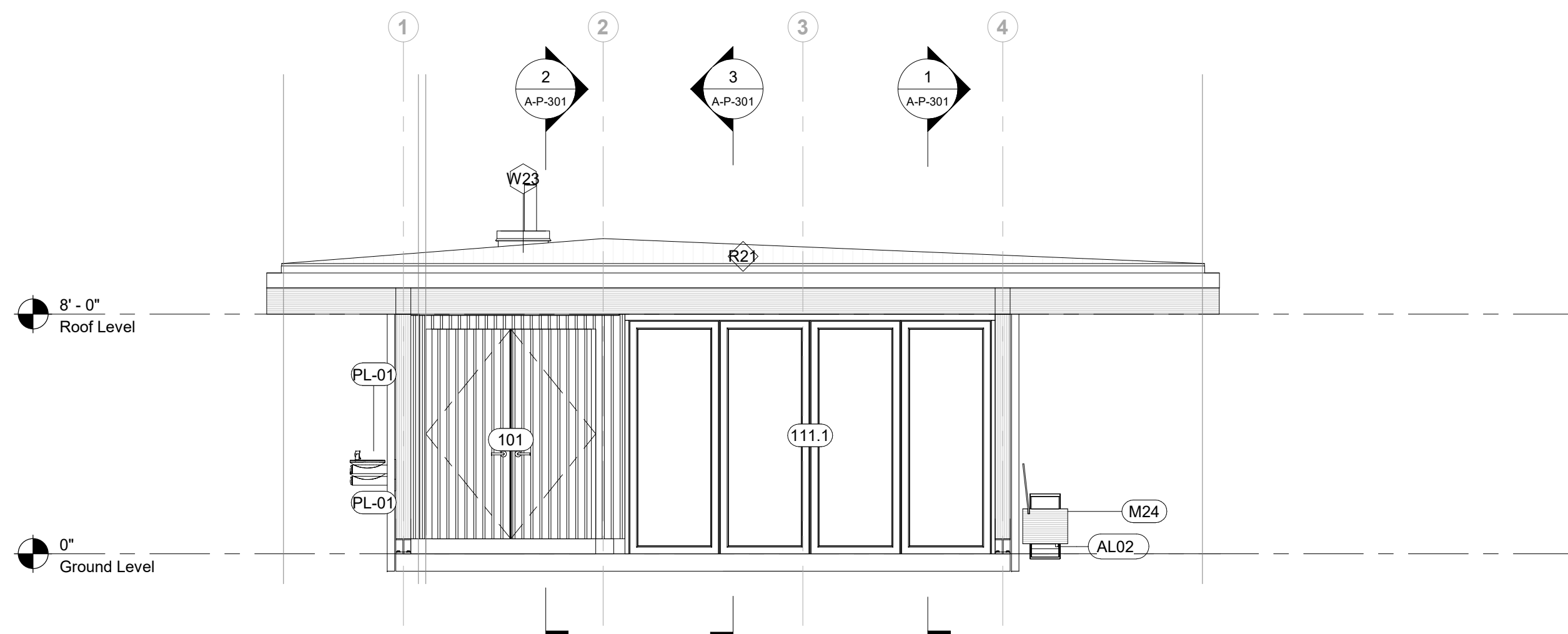
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1/4" = 1'-0"



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



3 North Elevation
1/4" = 1'-0"



4 South Elevation
1/4" = 1'-0"

Owner
Storm King Art Center
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Key Plan

Description	Date
50% Design Development	02/24/20
100% Design Development	05/29/20
50% Construction Documents	11/06/20

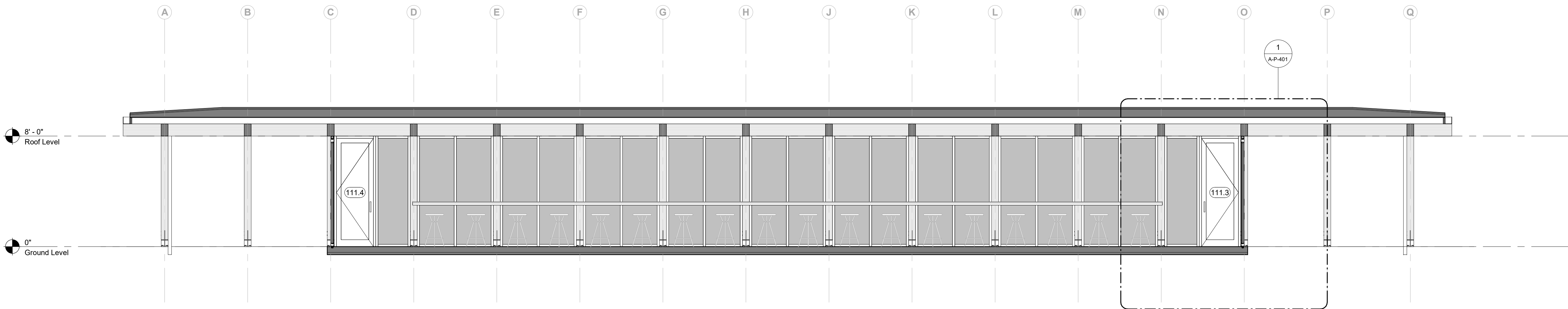
Project

Storm King Art Center Pond Pavilion

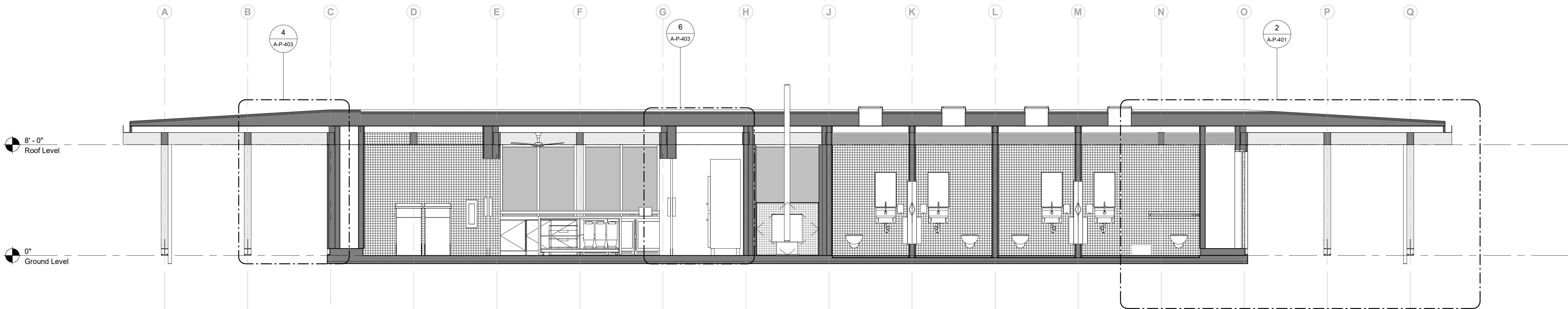
Seal

NOT FOR CONSTRUCTION
Drawing Title
Building Elevations

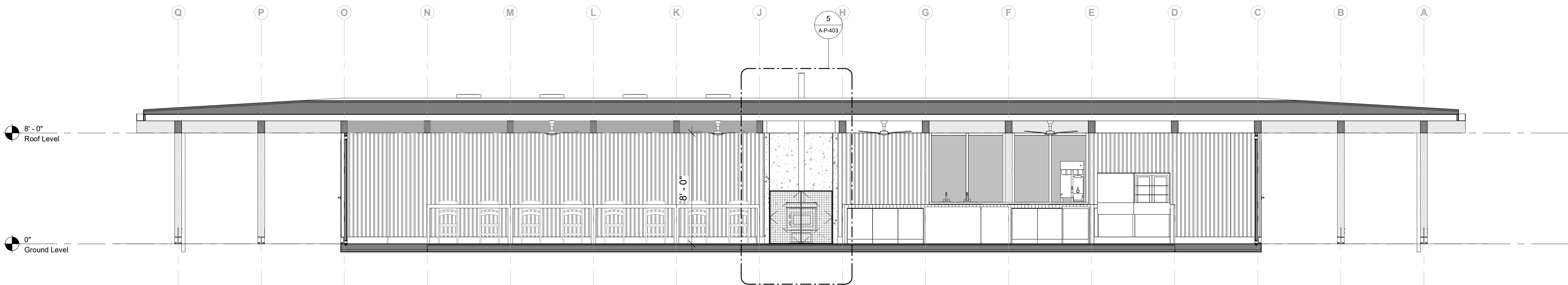
Date	11/06/20
Scale	1/4" = 1'-0"
Drawing Number	A-P-201
Sheet Size	ARCH D



1 Longitudinal Section A
1/4" = 1'-0"



2 Longitudinal Section B
1/4" = 1'-0"



3 Longitudinal Section C
1/4" = 1'-0"

Owner
Storm King Art Center
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Facade
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New York, NY 10002
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Key Plan

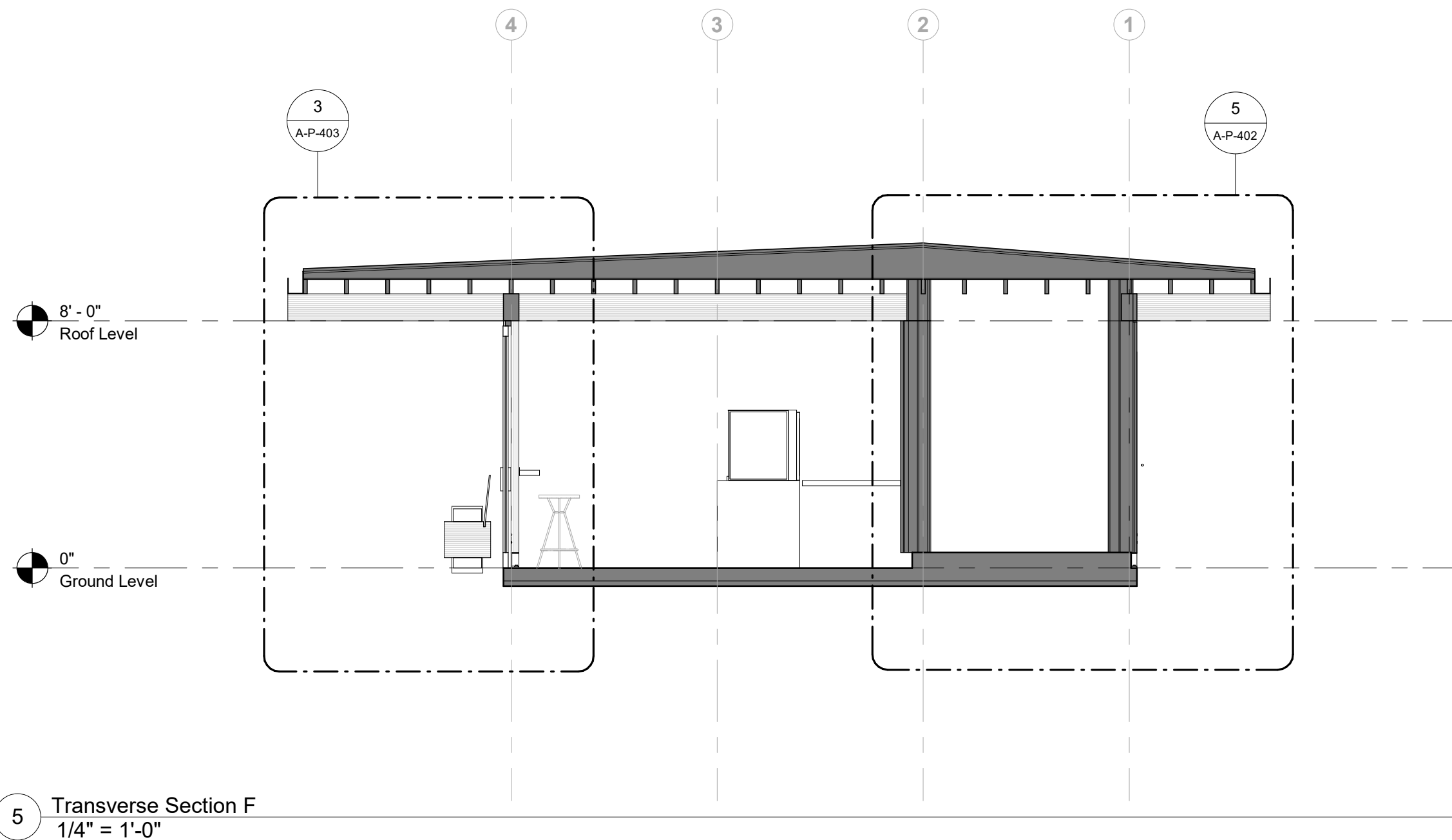
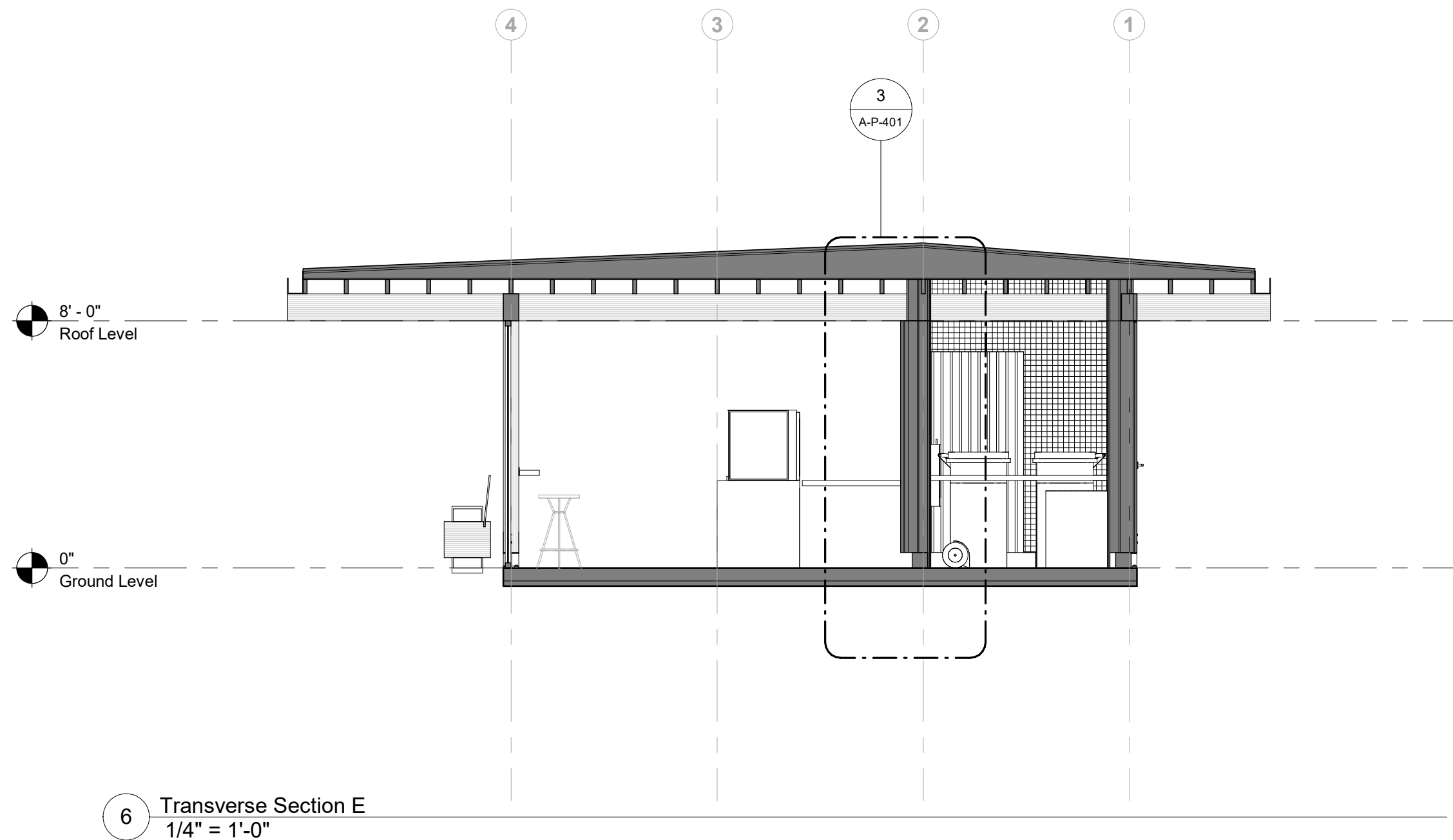
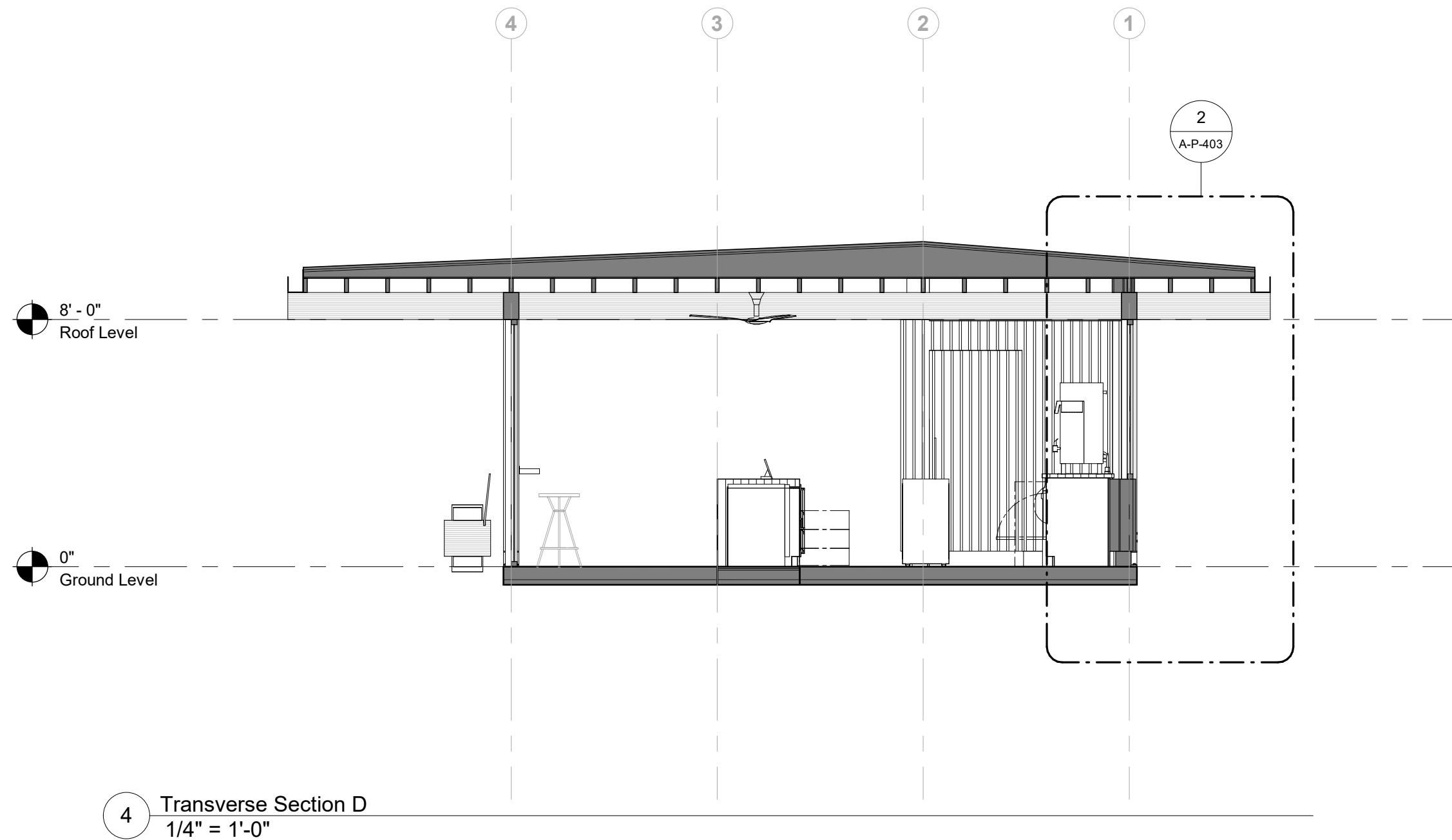
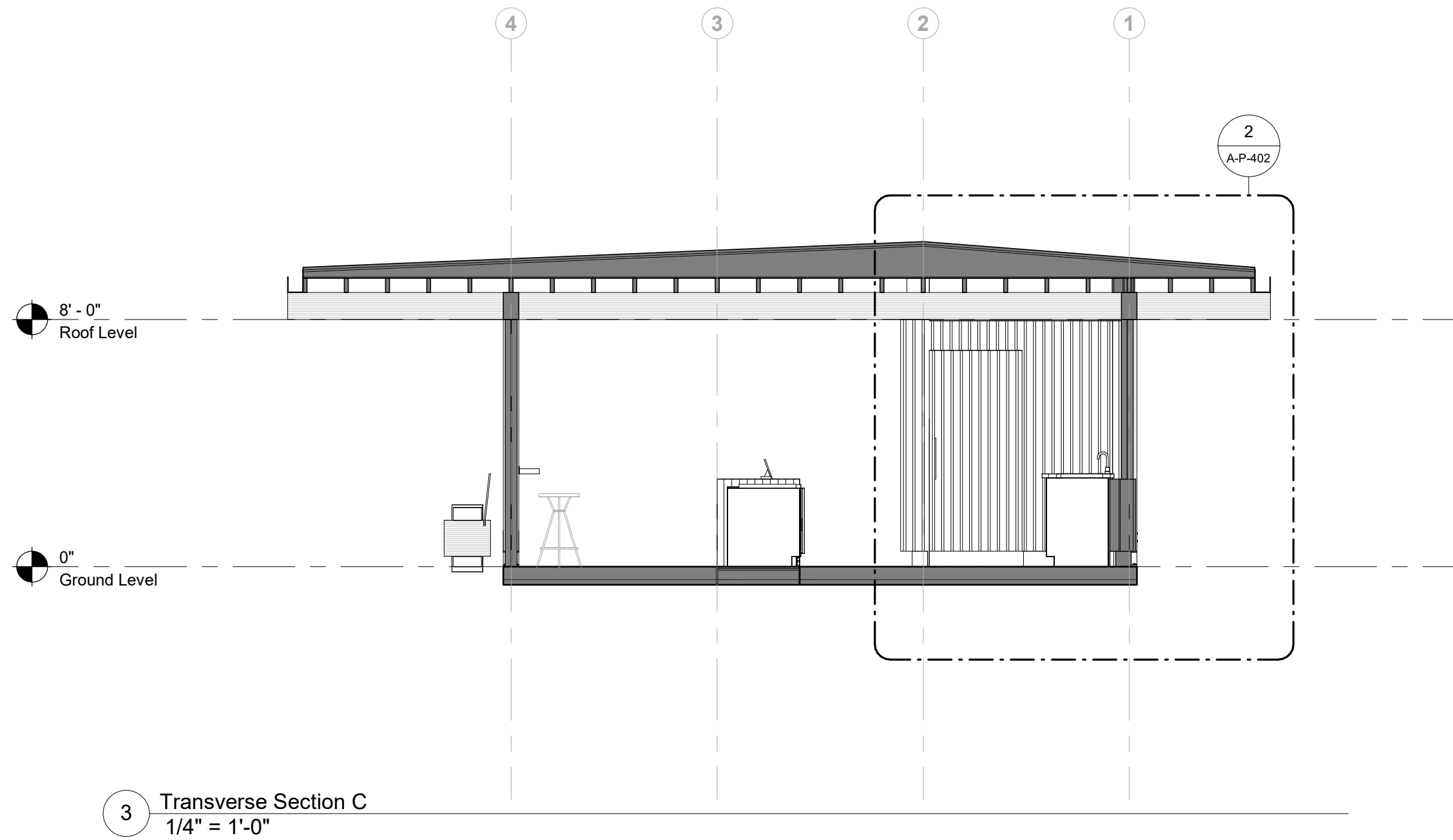
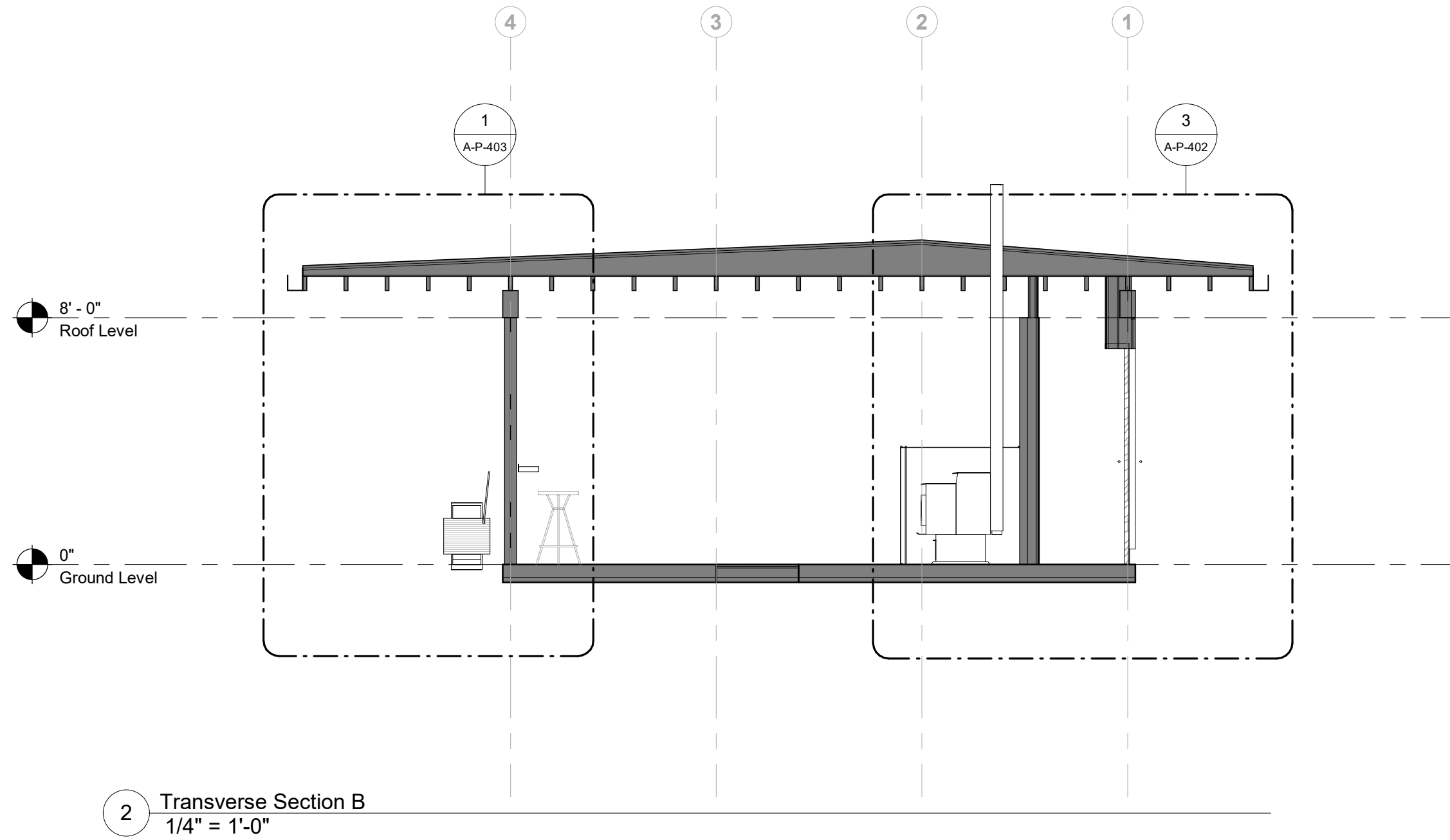
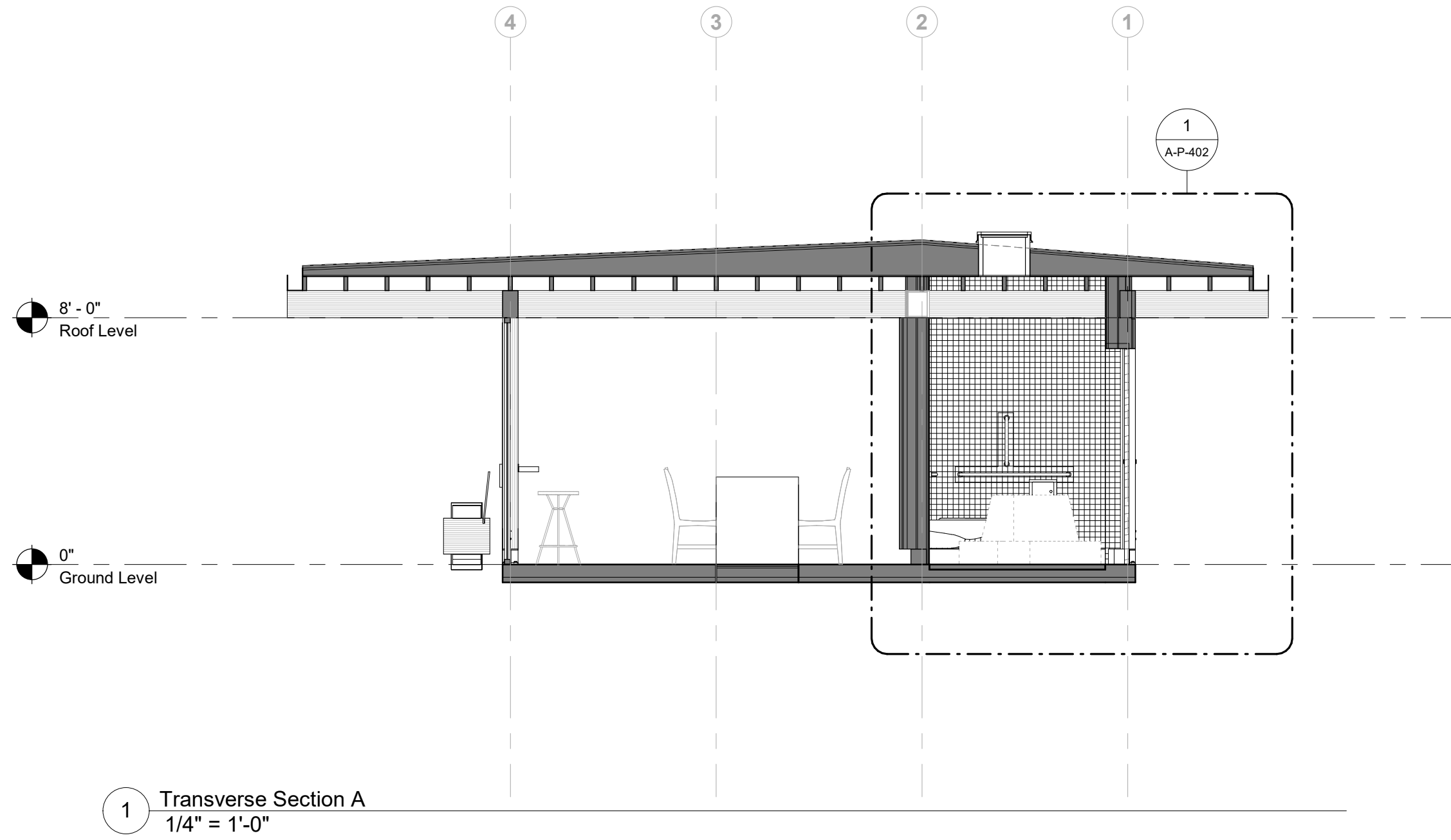
Description	Date
50% Design Development	02/24/20
100% Design Development	05/29/20
50% Construction Documents	11/06/20

Project
Storm King
Art Center
Pond Pavilion

Seal

NOT FOR CONSTRUCTION
Drawing Title
Building Sections

Date	11/06/20
Scale	1/4" = 1'-0"
Drawing Number	A-P-301
Sheet Size	ARCH D



Owner
Storm King Art Center
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+1 (212) 242-2220

Key Plan

Description	Date
50% Design Development	02/24/20
100% Design Development	05/29/20
50% Construction Documents	11/06/20

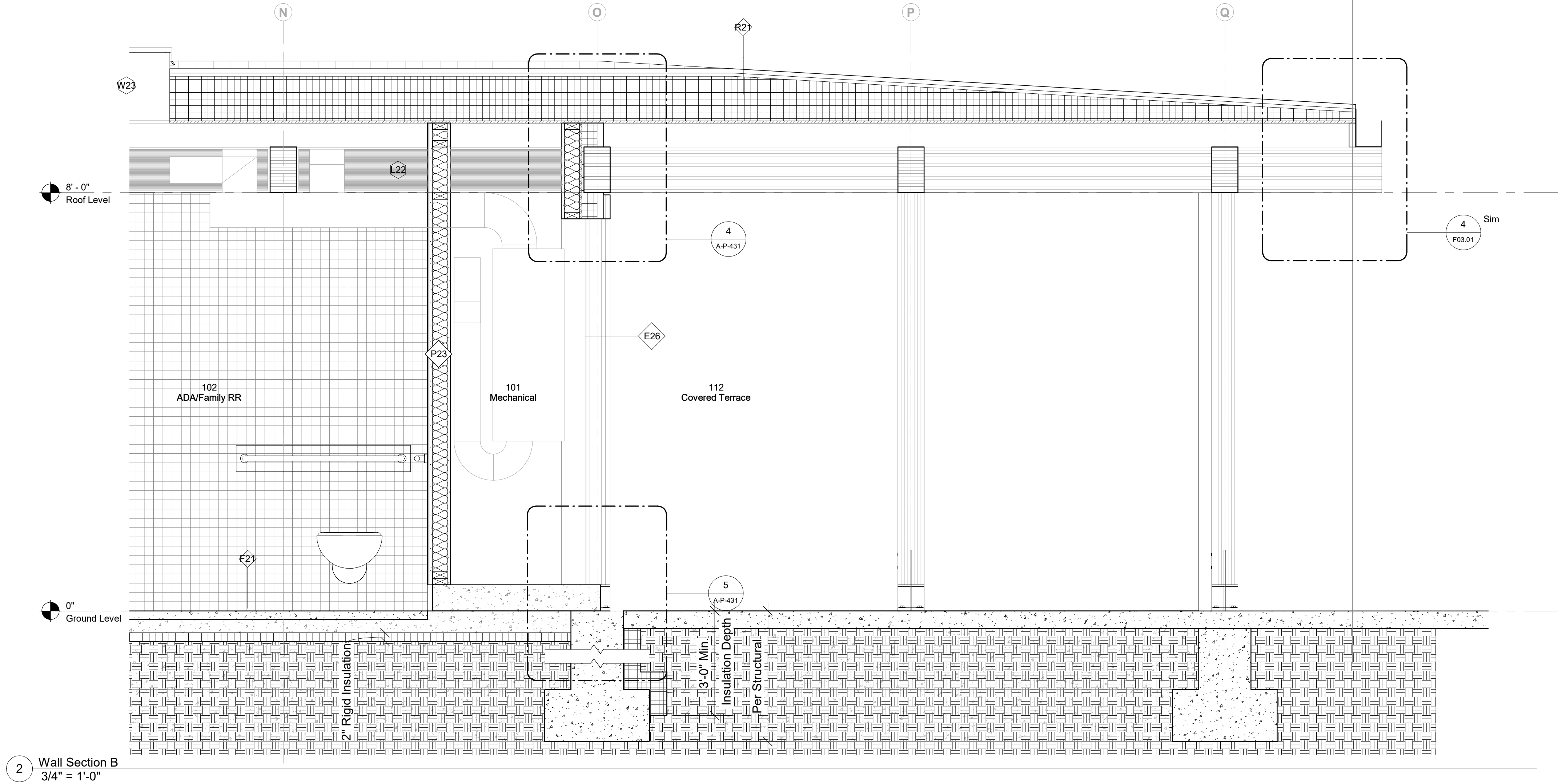
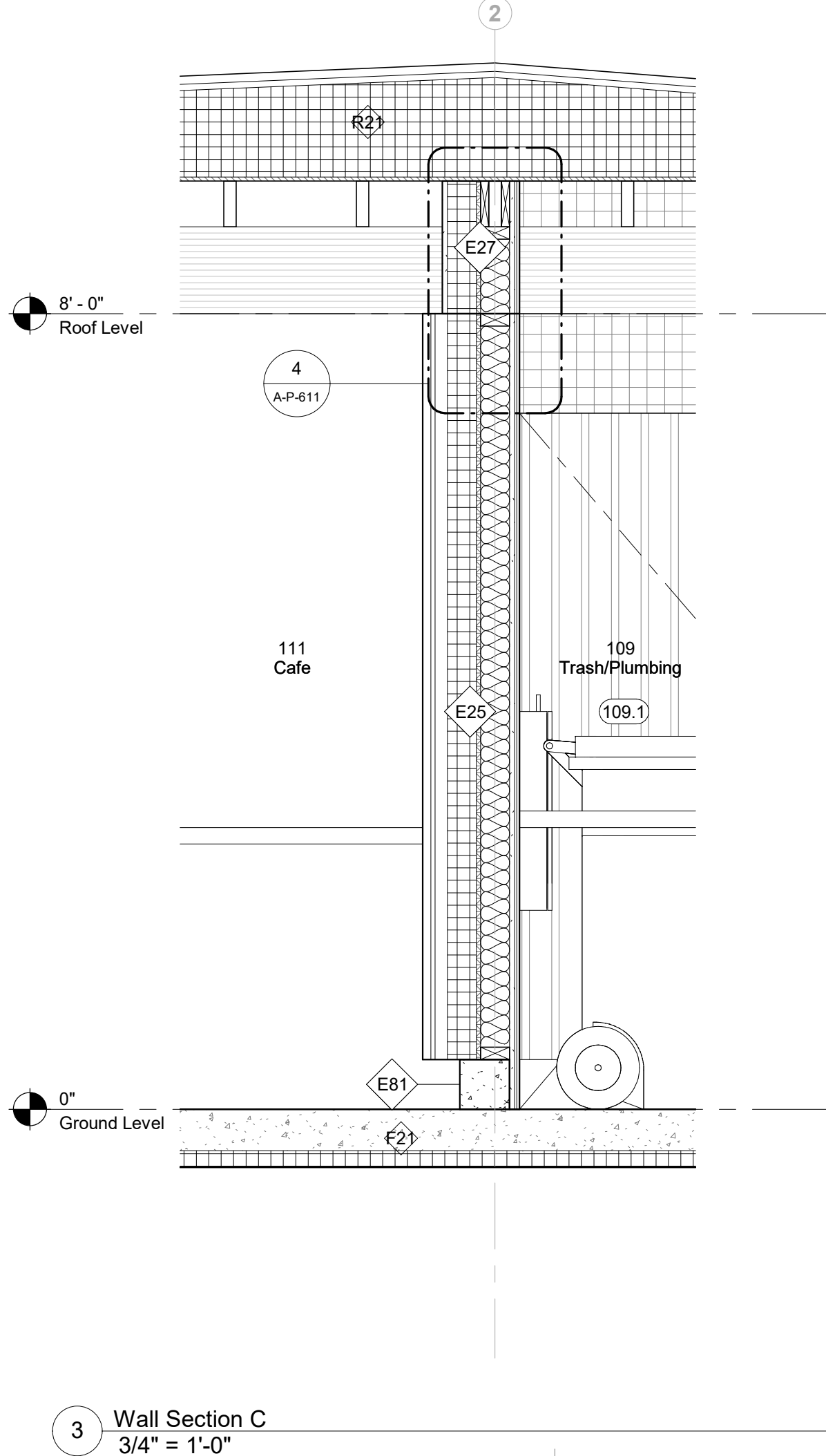
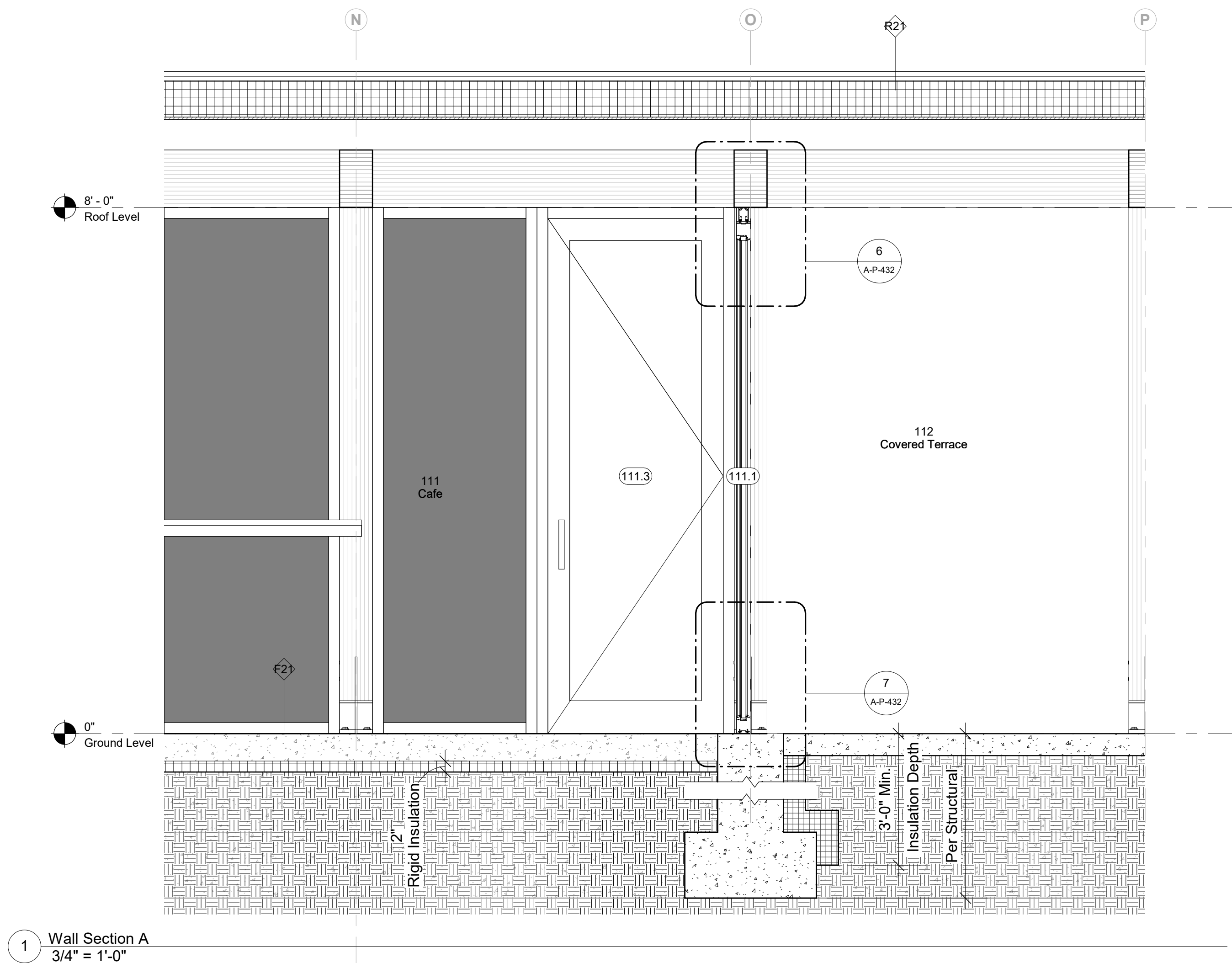
Project

Storm King Art Center Pond Pavilion

Seal

NOT FOR CONSTRUCTION
Drawing Title
Building Sections

Date	11/06/20
Scale	1/4" = 1'-0"
Drawing Number	A-P-302
Sheet Size	ARCH D



Keynote Legend	
Keynote	Description

Owner
Storm King Art Center
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Key Plan

Description	Date
100% Design Development	05/29/20
50% Construction Documents	11/06/20

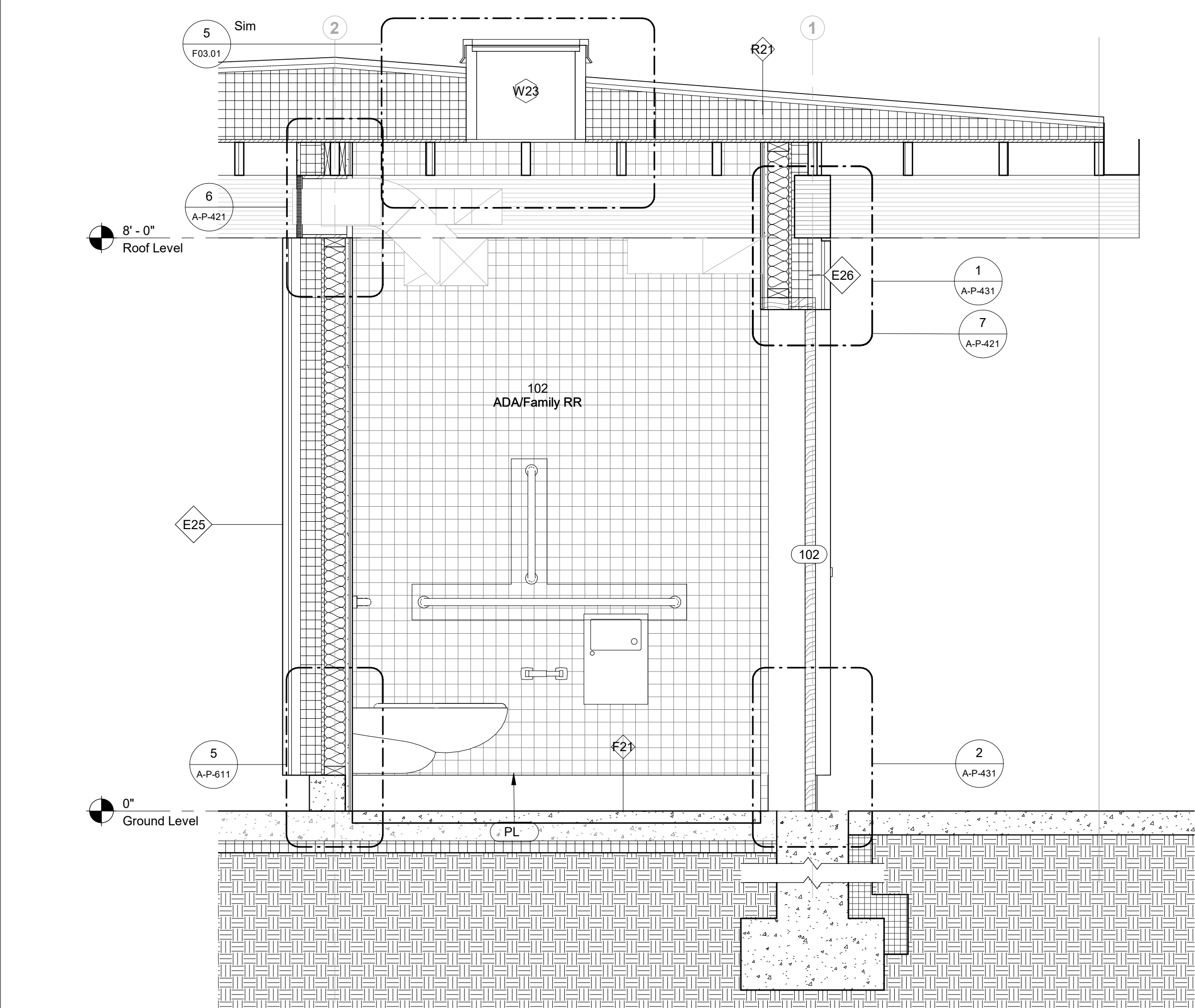
Project

Storm King Art Center Pond Pavilion

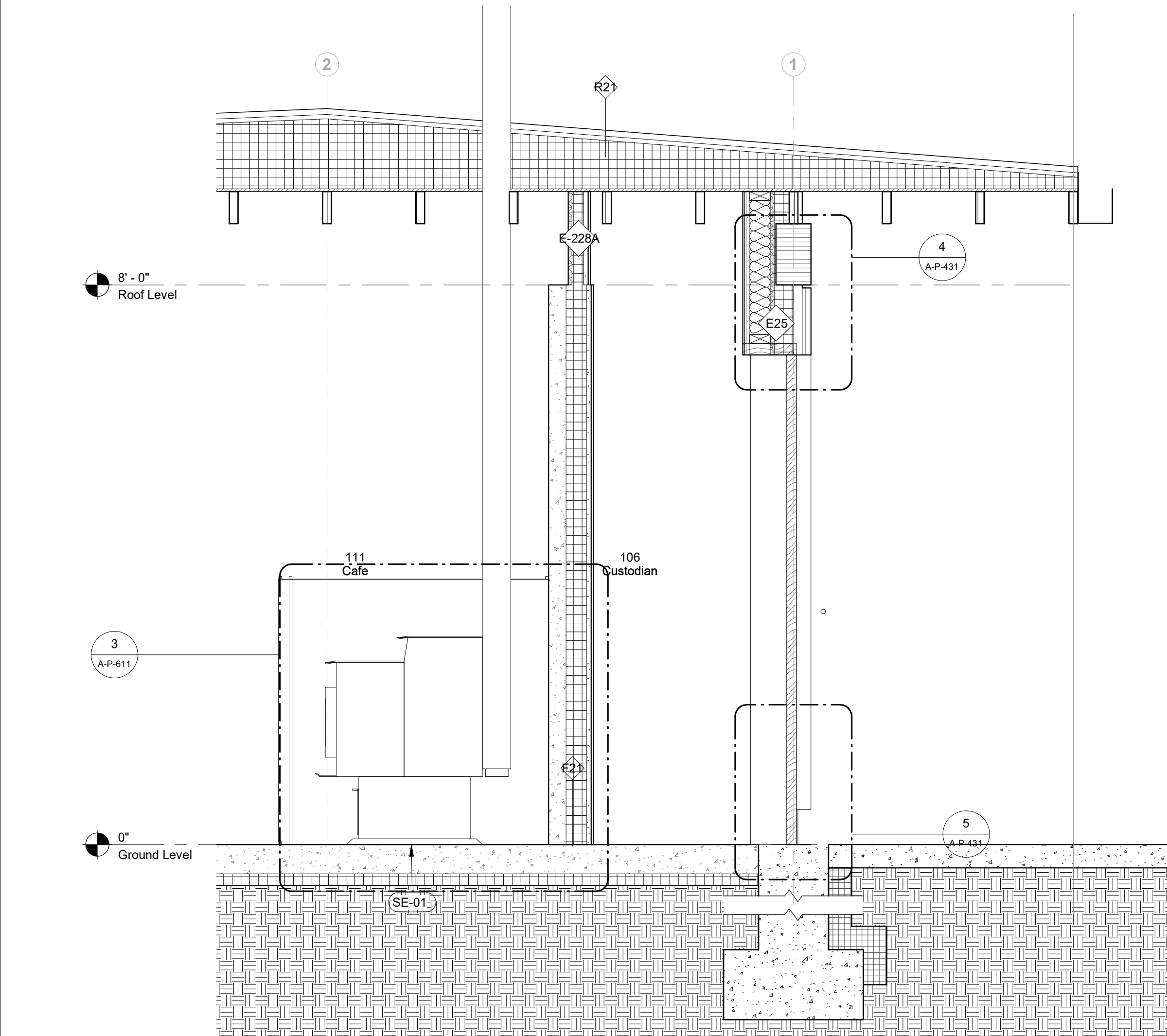
Seal

NOT FOR CONSTRUCTION
Drawing Title
Wall Sections

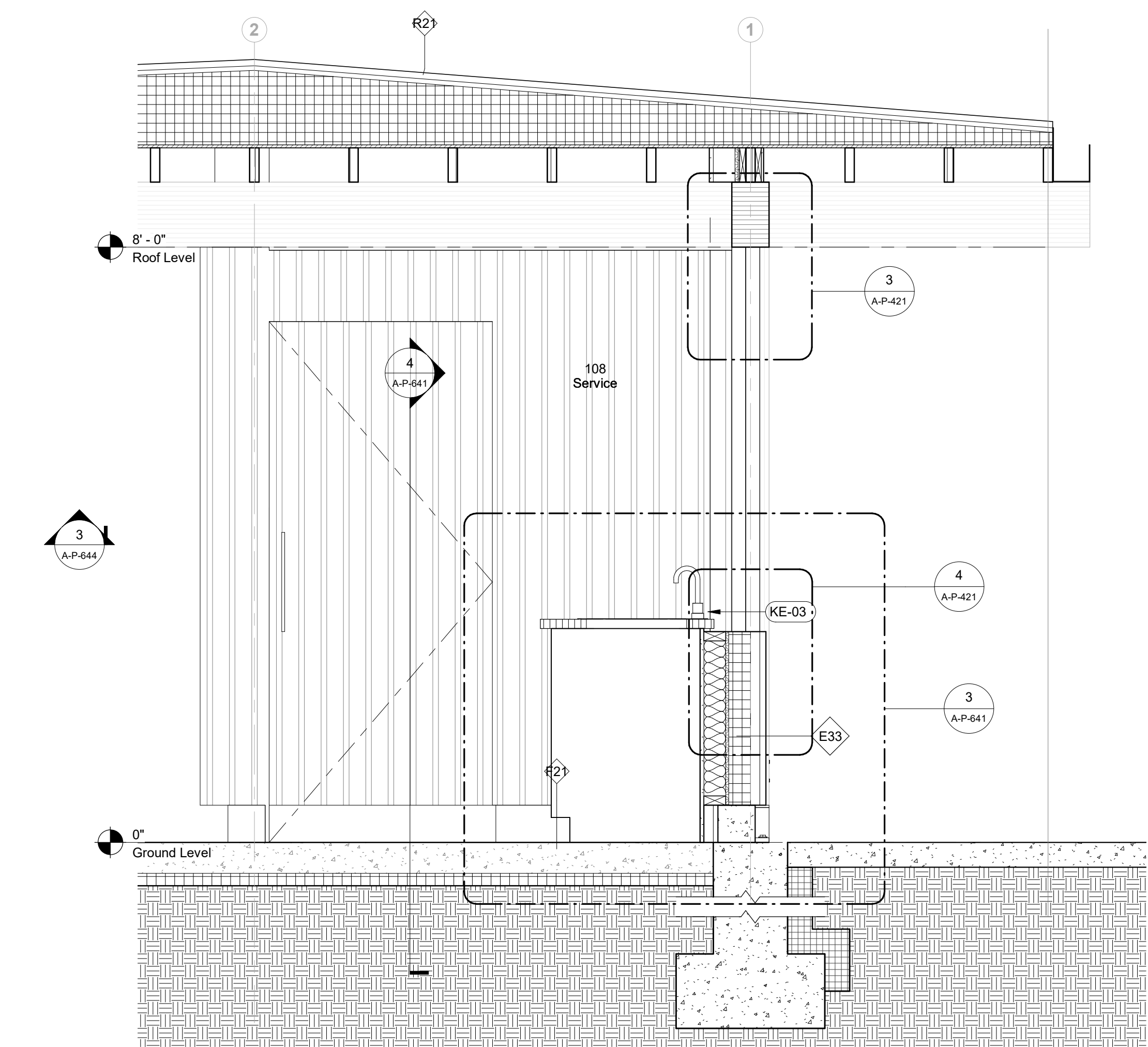
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Drawing Number	A-P-401
Sheet Size	ARCH D



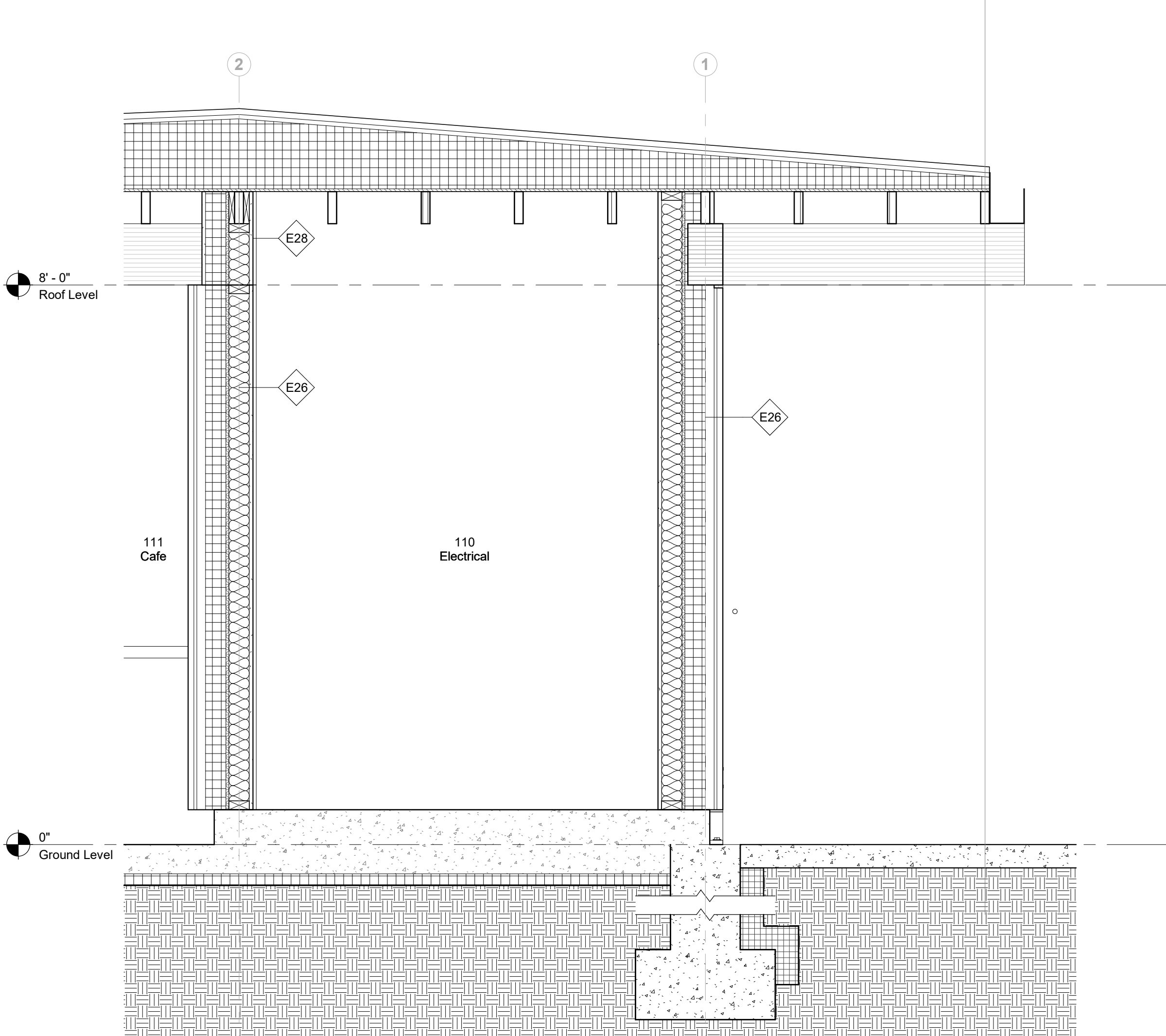
1 Wall Section D
3/4" = 1'-0"



3 Wall Section F
3/4" = 1'-0"



2 Wall Section E
3/4" = 1'-0"



5 Wall Section G
3/4" = 1'-0"

Keynote Legend

Keynote Description

Owner
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Key Plan

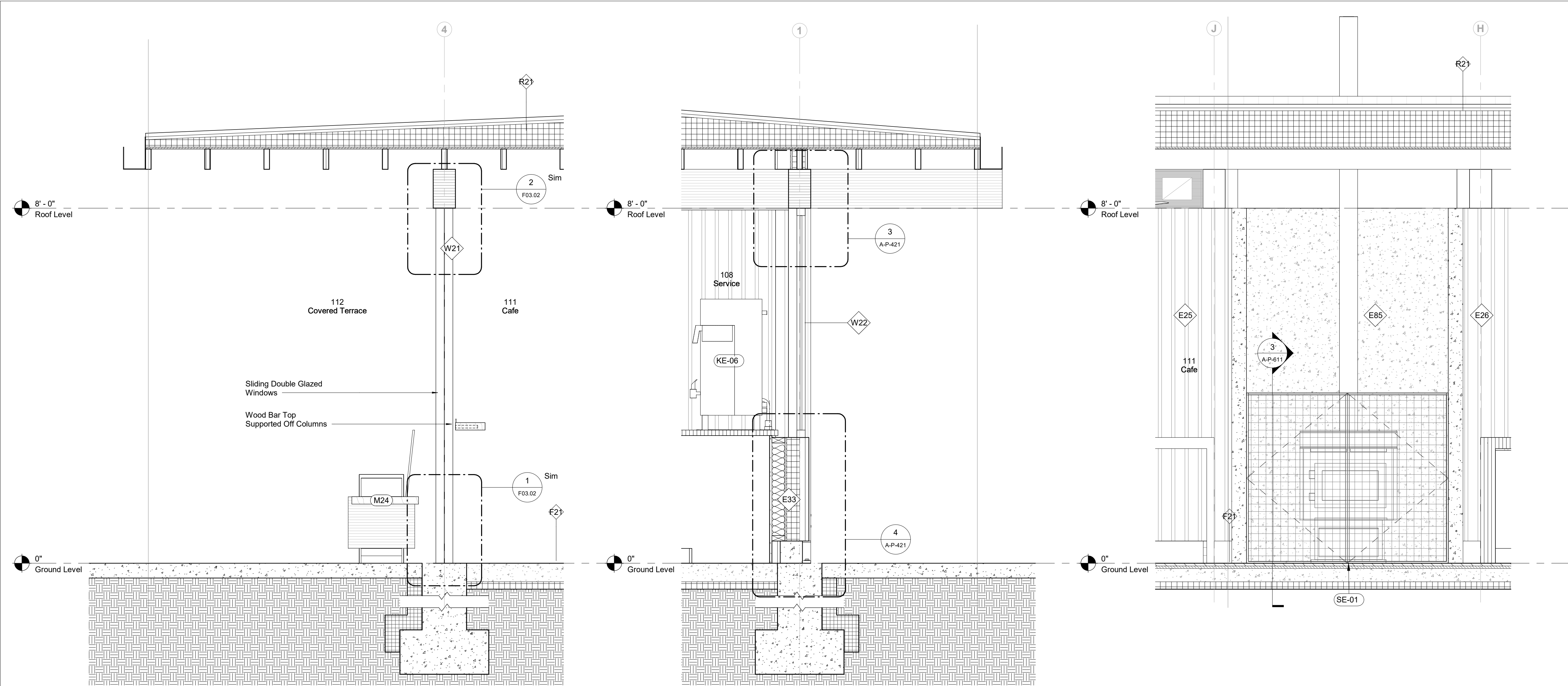
Description	Date
100% Design Development	05/29/20
50% Construction Documents	11/06/20

Storm King Art Center Pond Pavilion

Seal

NOT FOR CONSTRUCTION
Drawing Title
Wall Sections

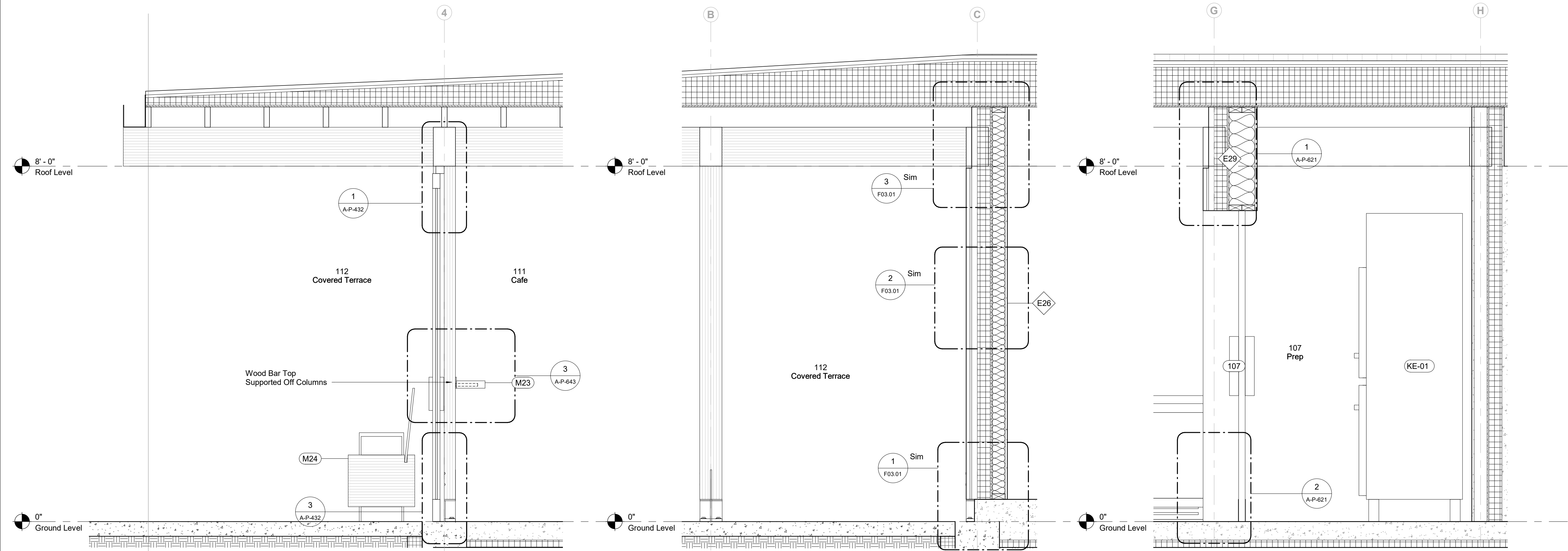
Date	11/06/20
Scale	3/4" = 1'-0"
Drawing Number	A-P-402
Sheet Size	ARCH D



1 Wall Section H
3/4" = 1'-0"

2 Wall Section I
3/4" = 1'-0"

5 Wall Section J
3/4" = 1'-0"



3 Wall Section K
3/4" = 1'-0"

4 Wall Section L
3/4" = 1'-0"

6 Wall Section M
3/4" = 1'-0"

Keynote Legend

Keynote Description

Owner

Storm King Art Center
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Key Plan



Description Date
50% Construction Documents 11/06/20

Project

Storm King Art Center Pond Pavilion

Seal

NOT FOR CONSTRUCTION

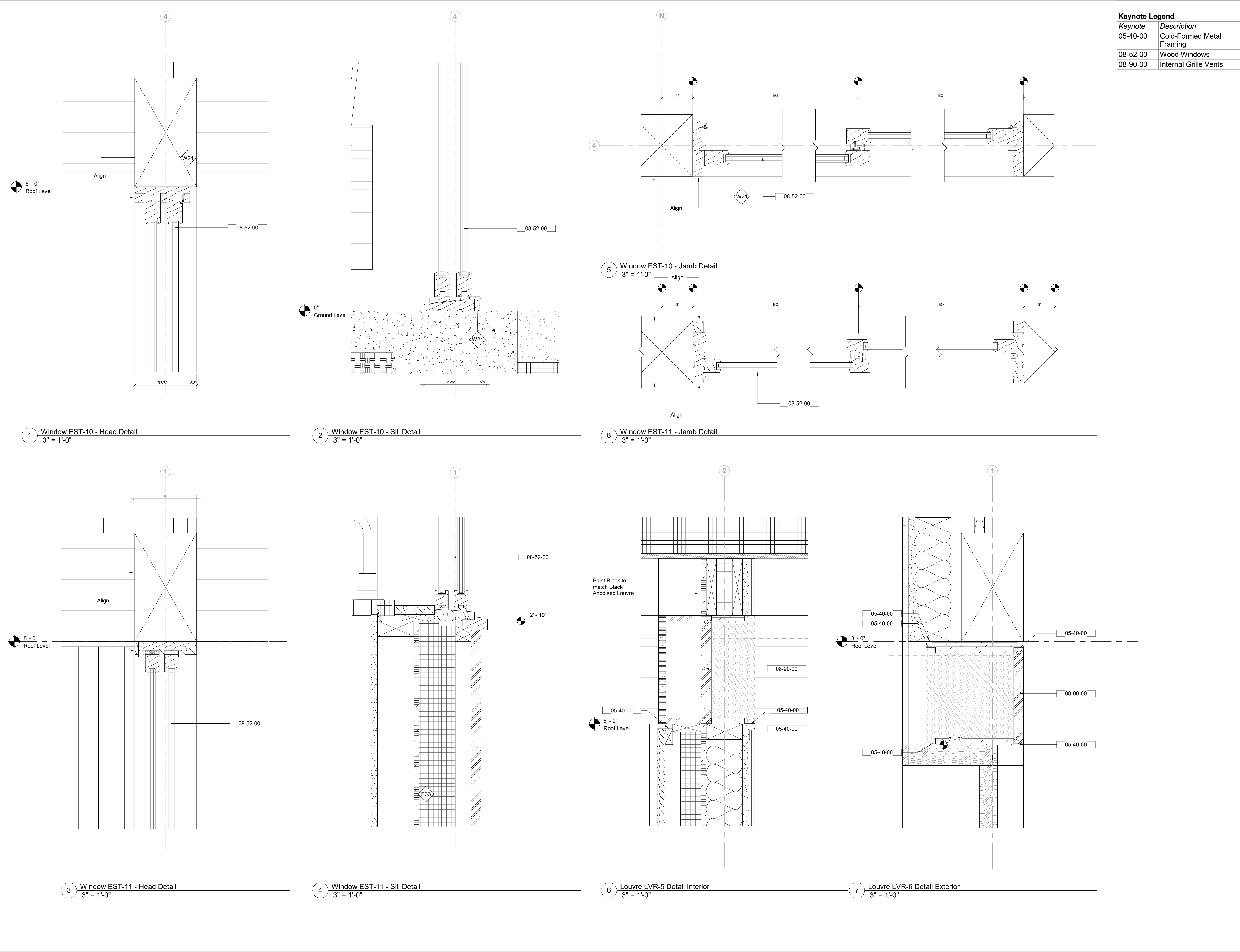
Drawing Title Wall Sections

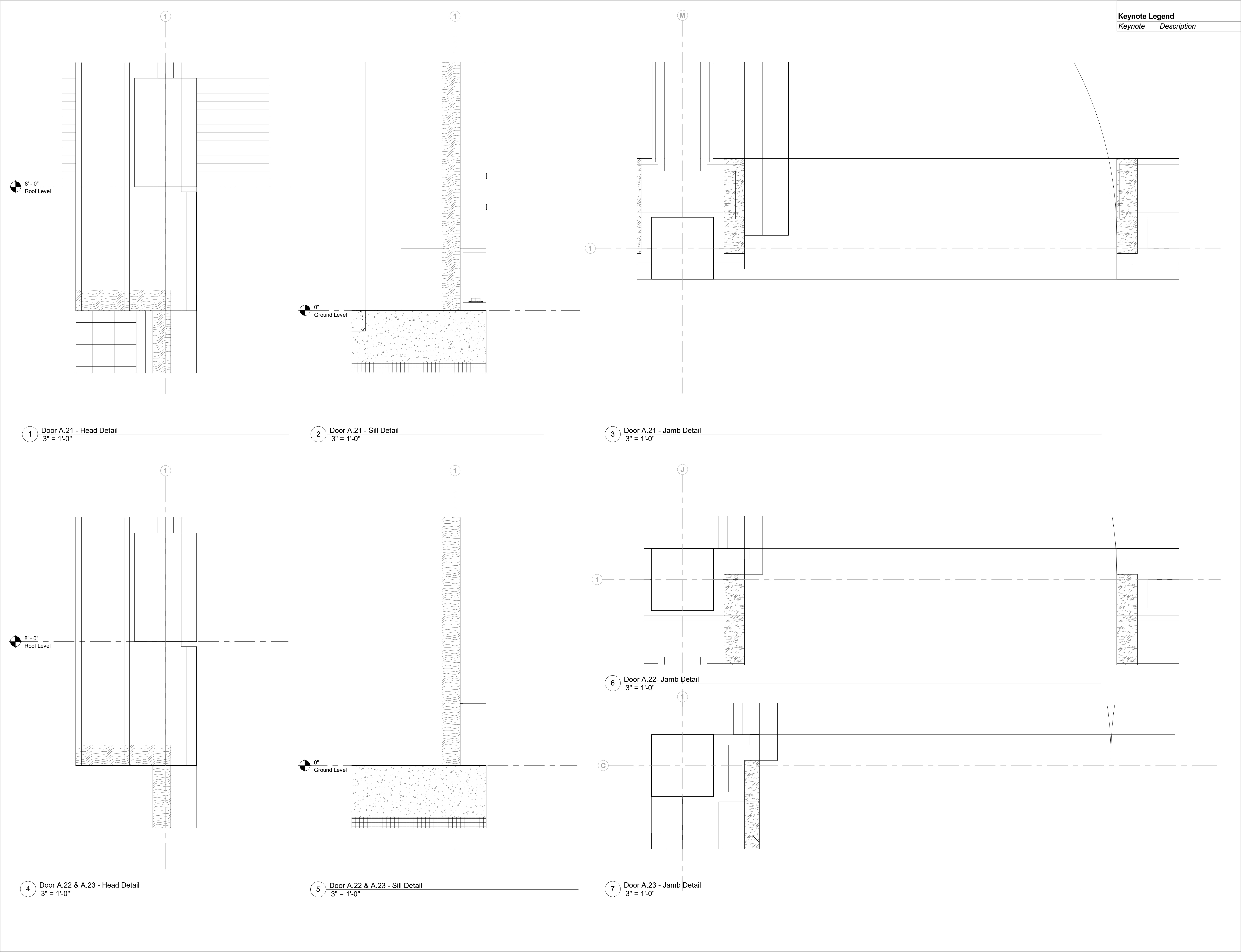
Date 11/06/20

Scale 3/4" = 1'-0"

Drawing
Number A-P-403

Sheet Size ARCH D





Description	Date
50% Construction Documents	11/06/20

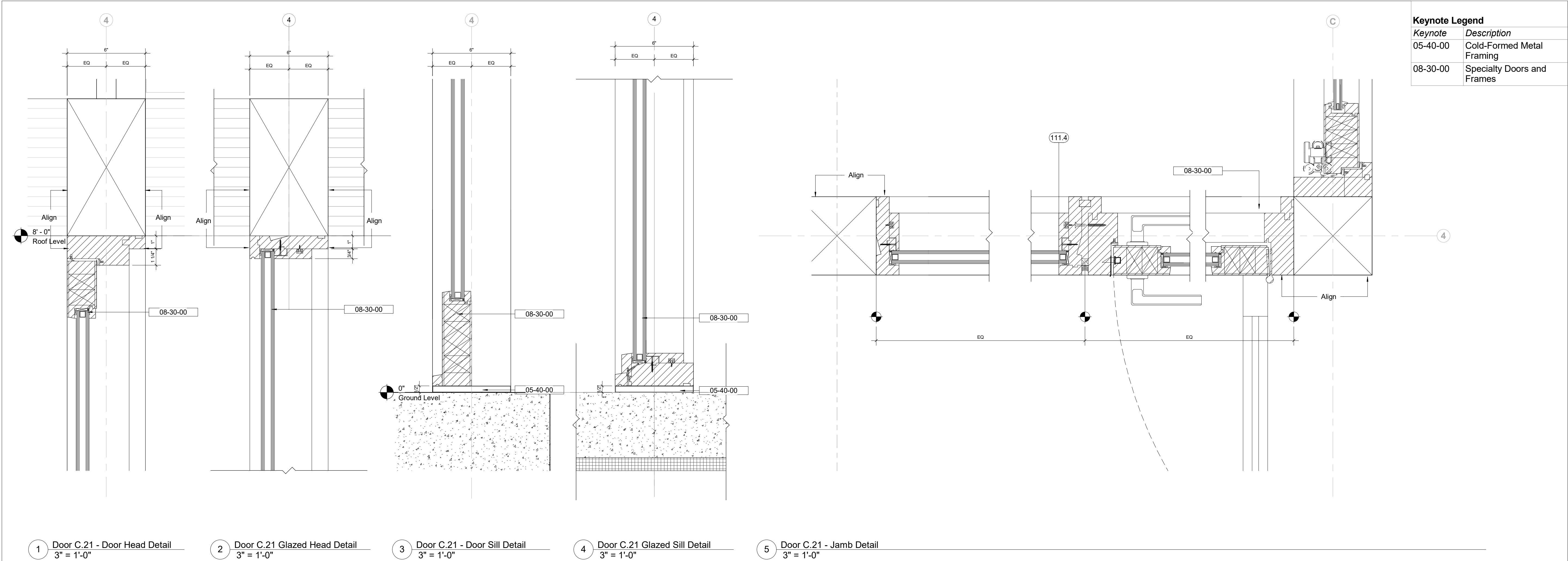
Project

Storm King Art Center Pond Pavilion

Seal

NOT FOR CONSTRUCTION
Drawing Title
Door Details -
Exterior

Date	11/06/20
Scale	3" = 1'-0"
Drawing Number	A-P-431
Sheet Size	ARCH D



Owner
Storm King Art Center
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Key Plan



Description	Date
50% Construction Documents	11/06/20

Project

Storm King Art Center Pond Pavilion

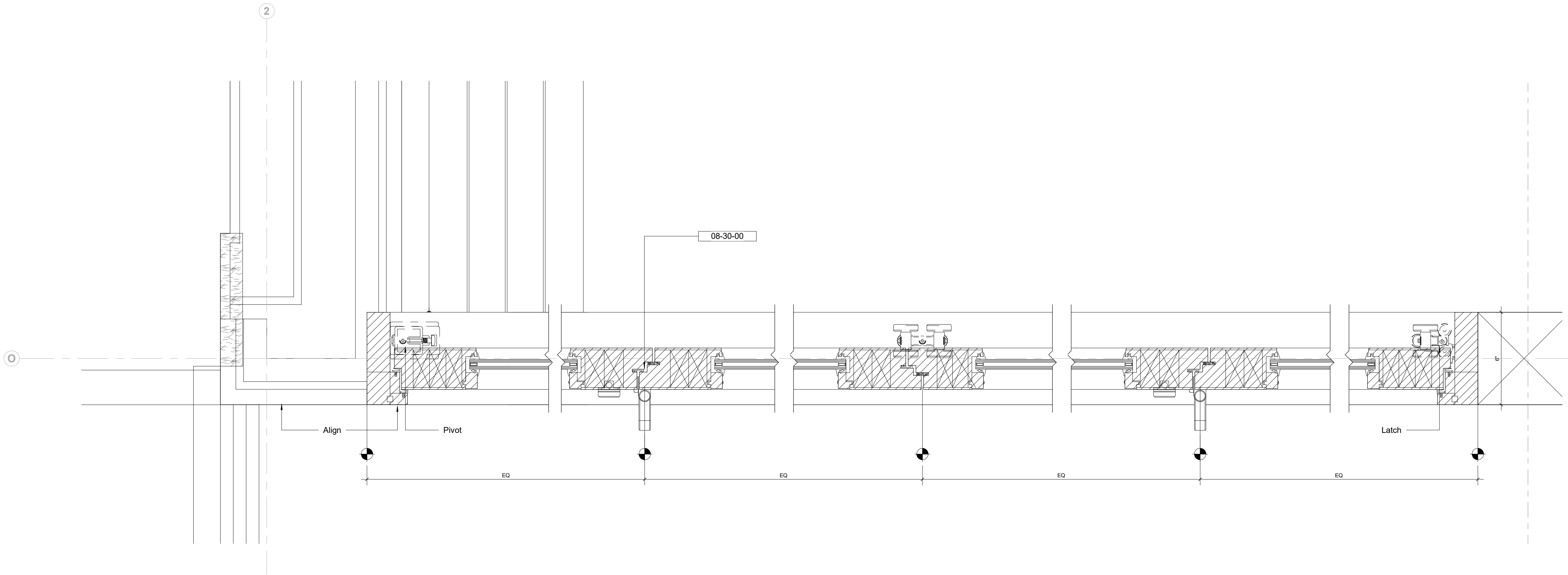
Seal

NOT FOR CONSTRUCTION

Drawing Title

Door Details - Exterior

Date	11/06/20
Scale	3" = 1'-0"
Drawing Number	A-P-432
Sheet Size	ARCH D



1 Door E.21 - Jamb Detail
3" = 1'-0"

Owner
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Key Plan



Description	Date
50% Construction Documents	11/06/20

Project
Storm King
Art Center
Pond Pavilion

Seal

NOT FOR CONSTRUCTION
Drawing Title
Door Details -
Exterior

Date	11/06/20
Scale	3" = 1'-0"
Drawing Number	A-P-433
Sheet Size	ARCH D

Owner
Storm King Art Center
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Key Plan

Project

Storm King
Art Center
Pond Pavilion

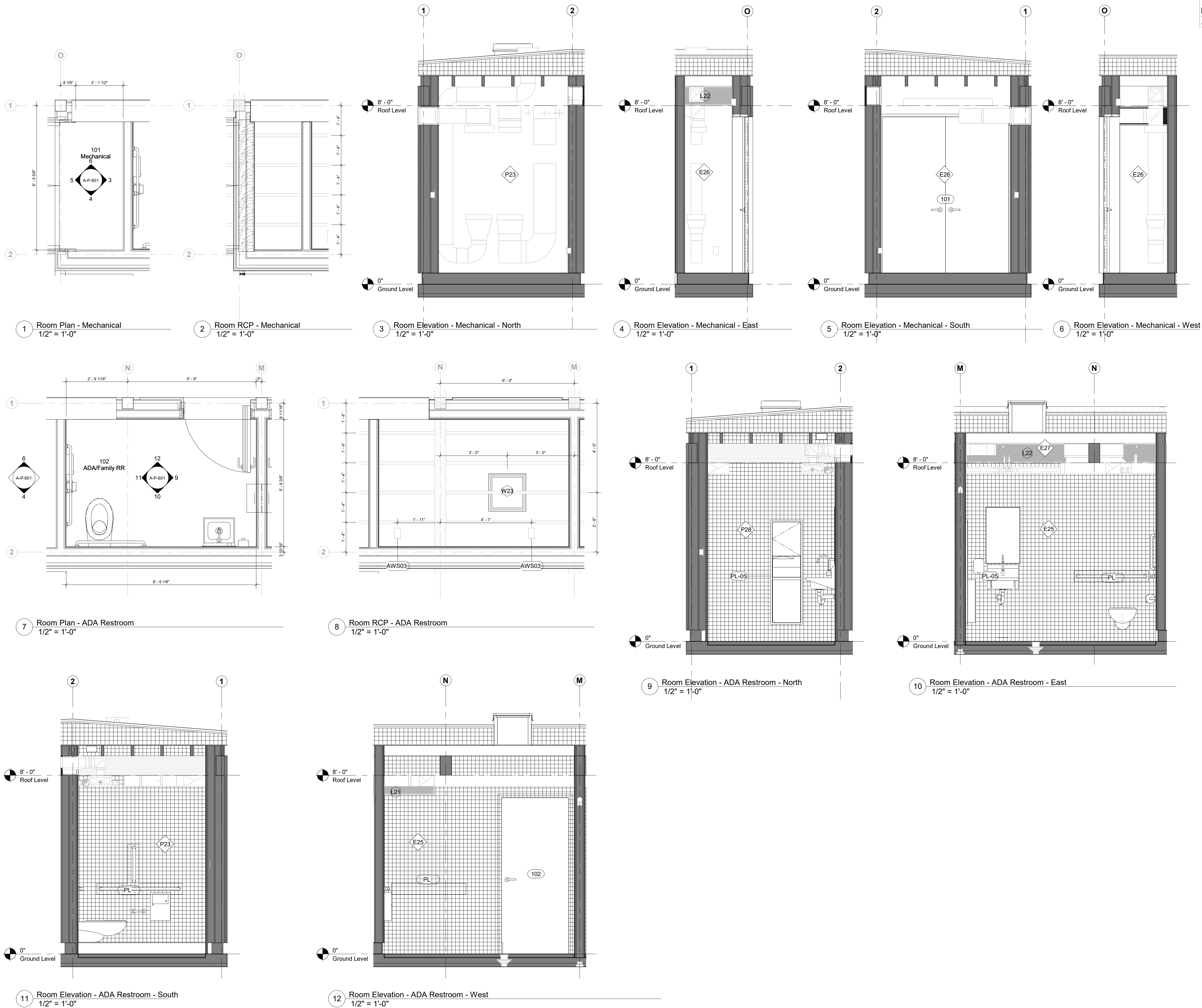
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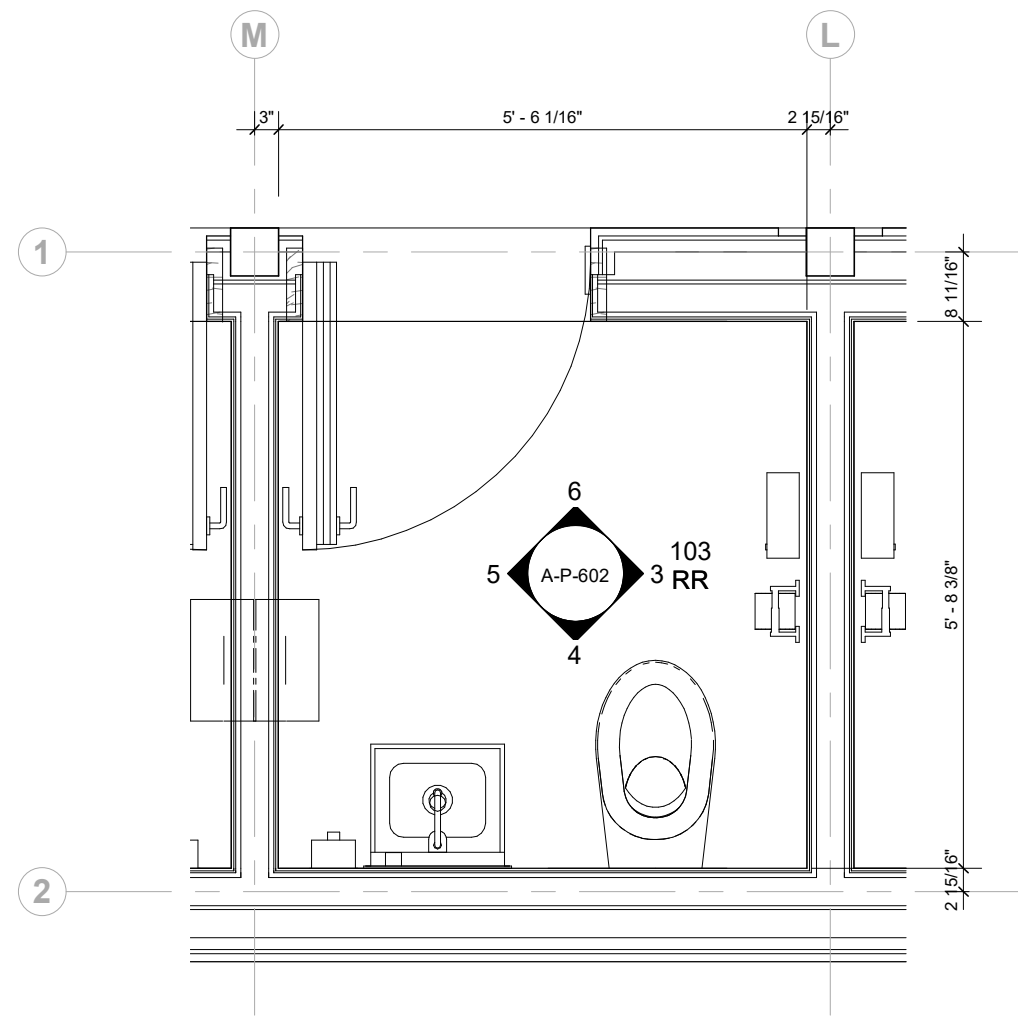
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Drawing Title

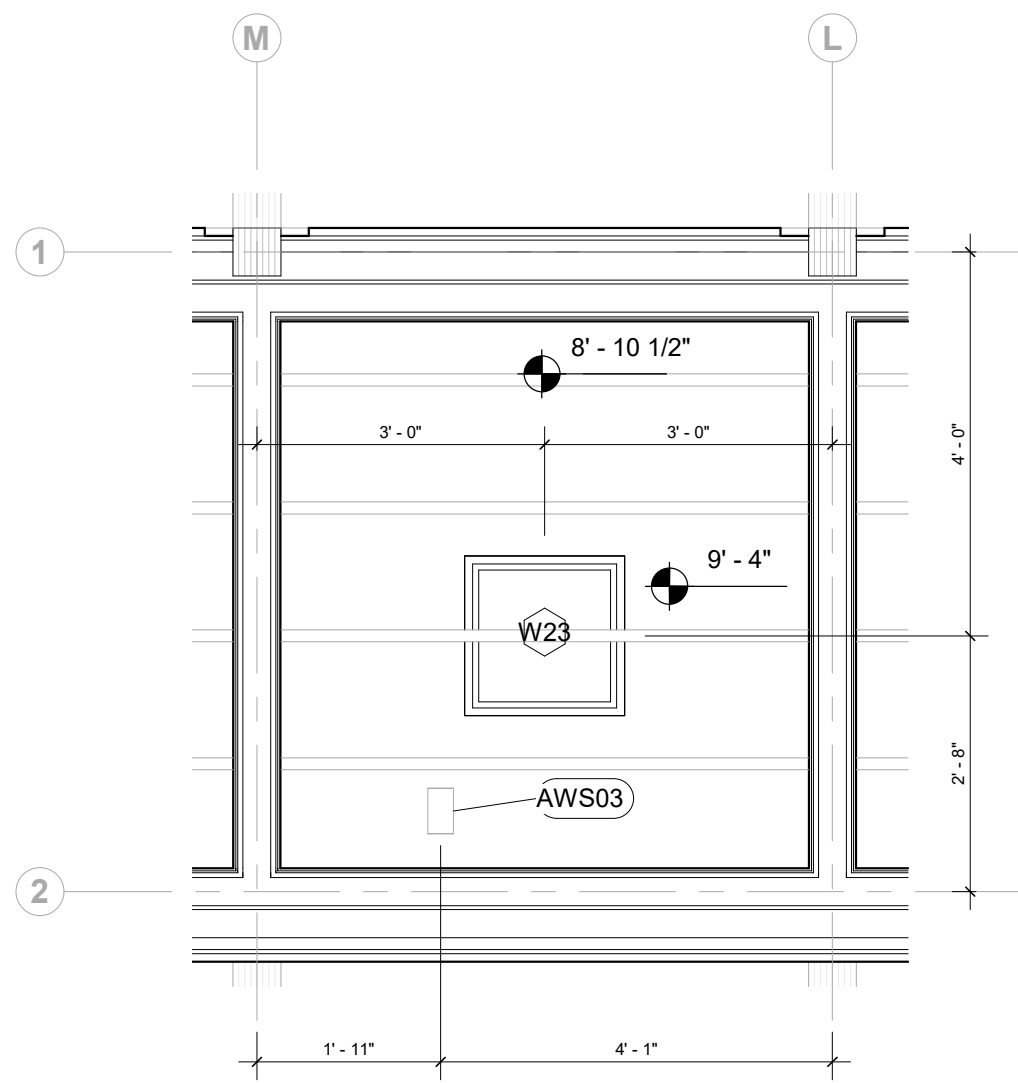
Room Plans & Elevations - 101 & 102

Date	11/06/20
Scale	1/2" = 1'-0"
Drawing Number	A-P-601
Sheet Size	ARCH D

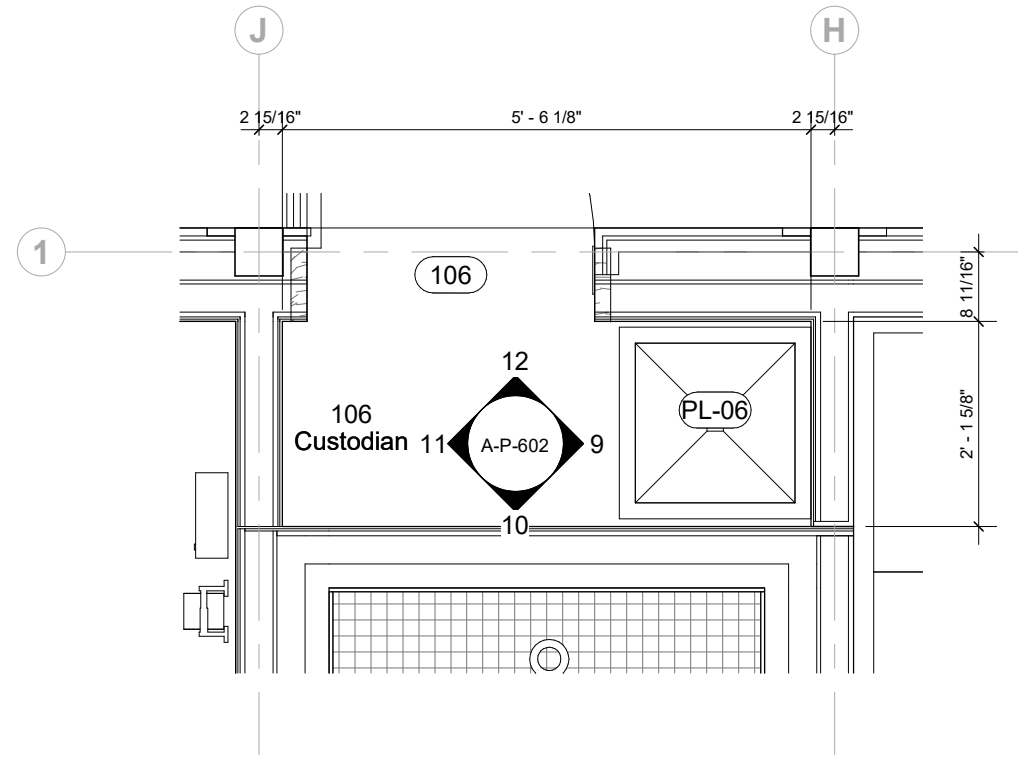




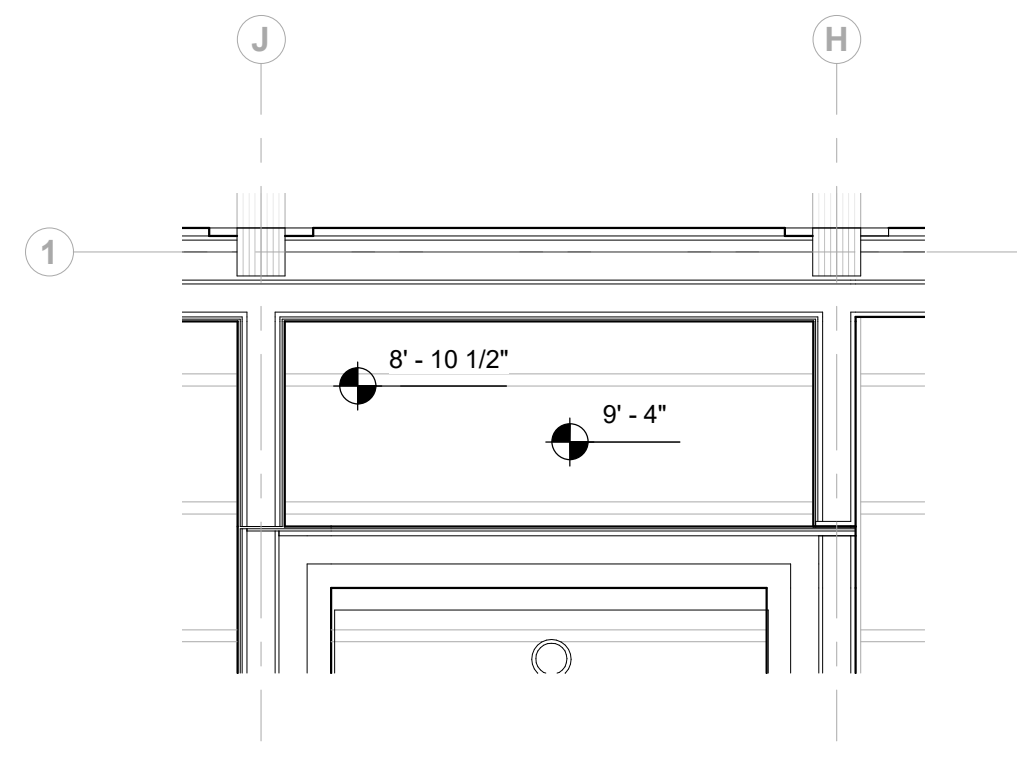
1 Room Plan - Restroom Typ.
1/2" = 1'-0"



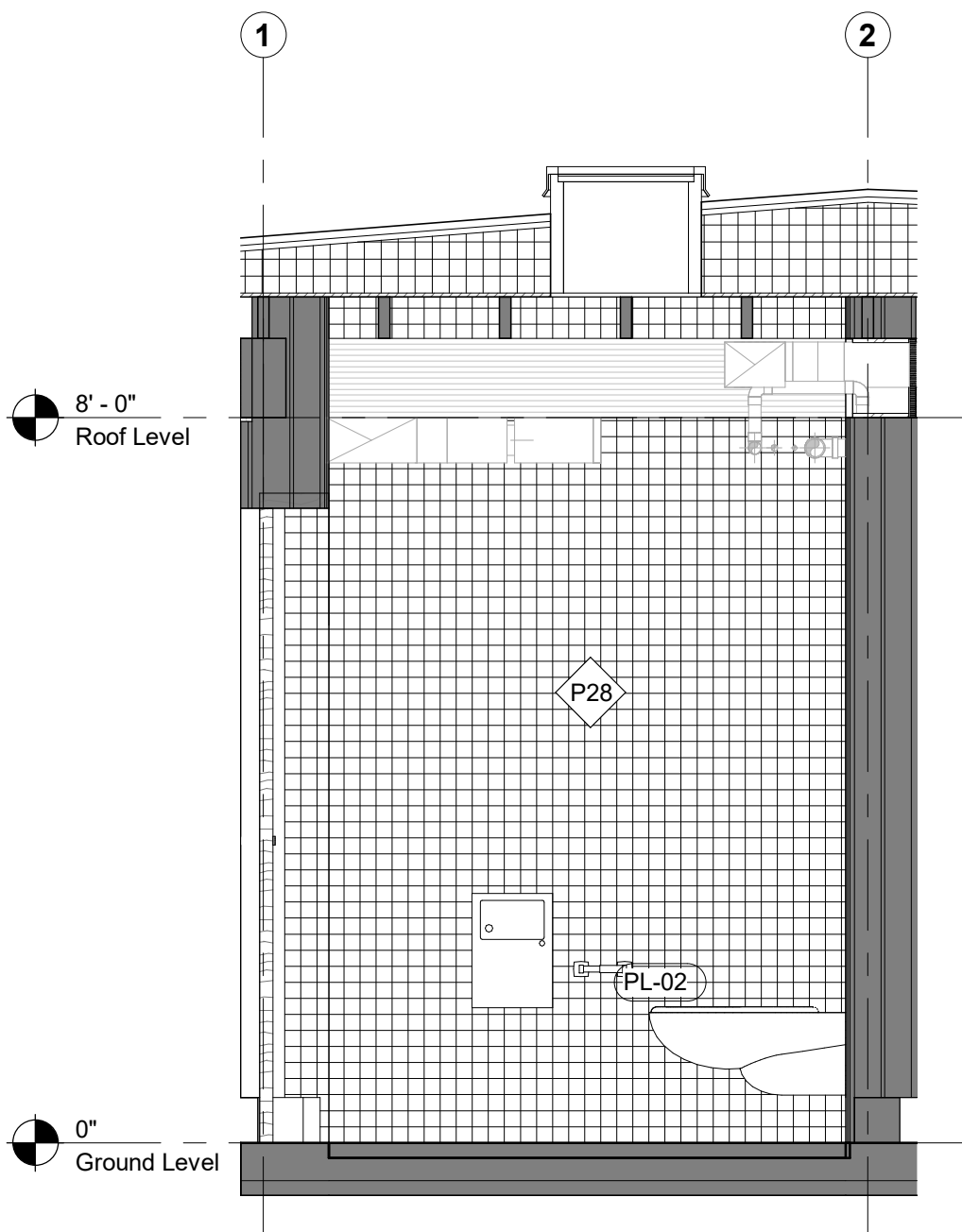
2 Room RCP - Restroom Typ.
1/2" = 1'-0"



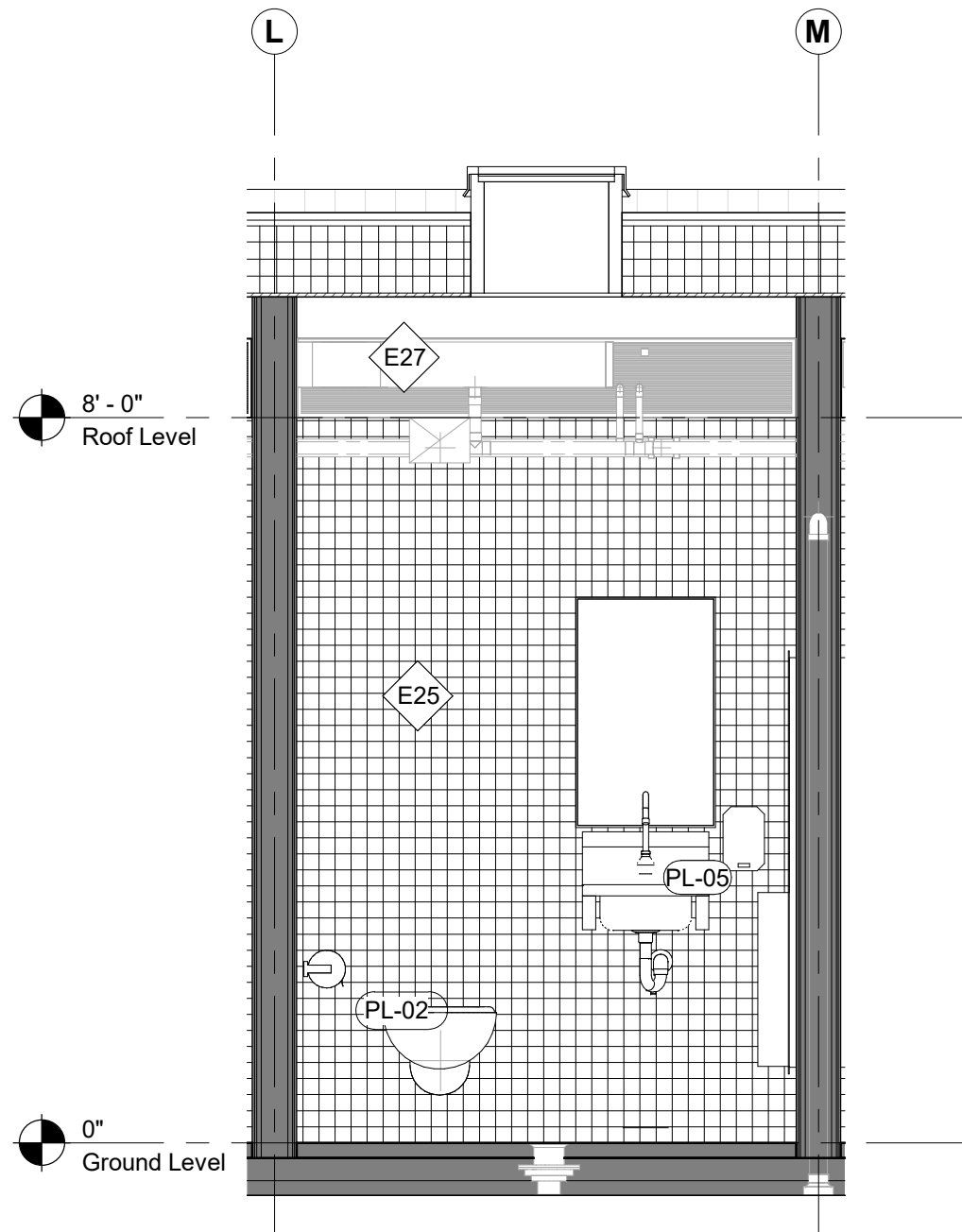
7 Room Plan - Custodian
1/2" = 1'-0"



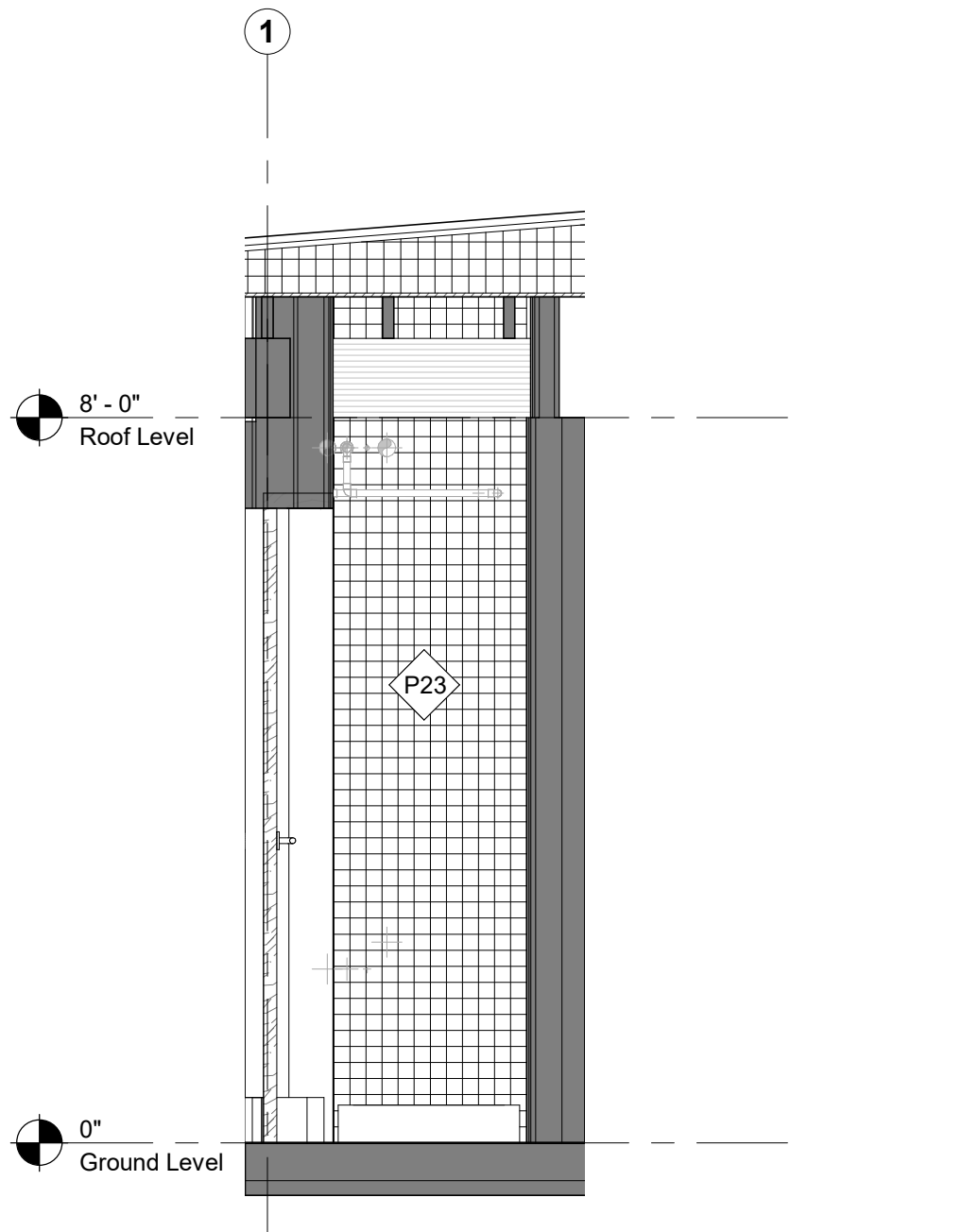
8 Room RCP - Custodian
1/2" = 1'-0"



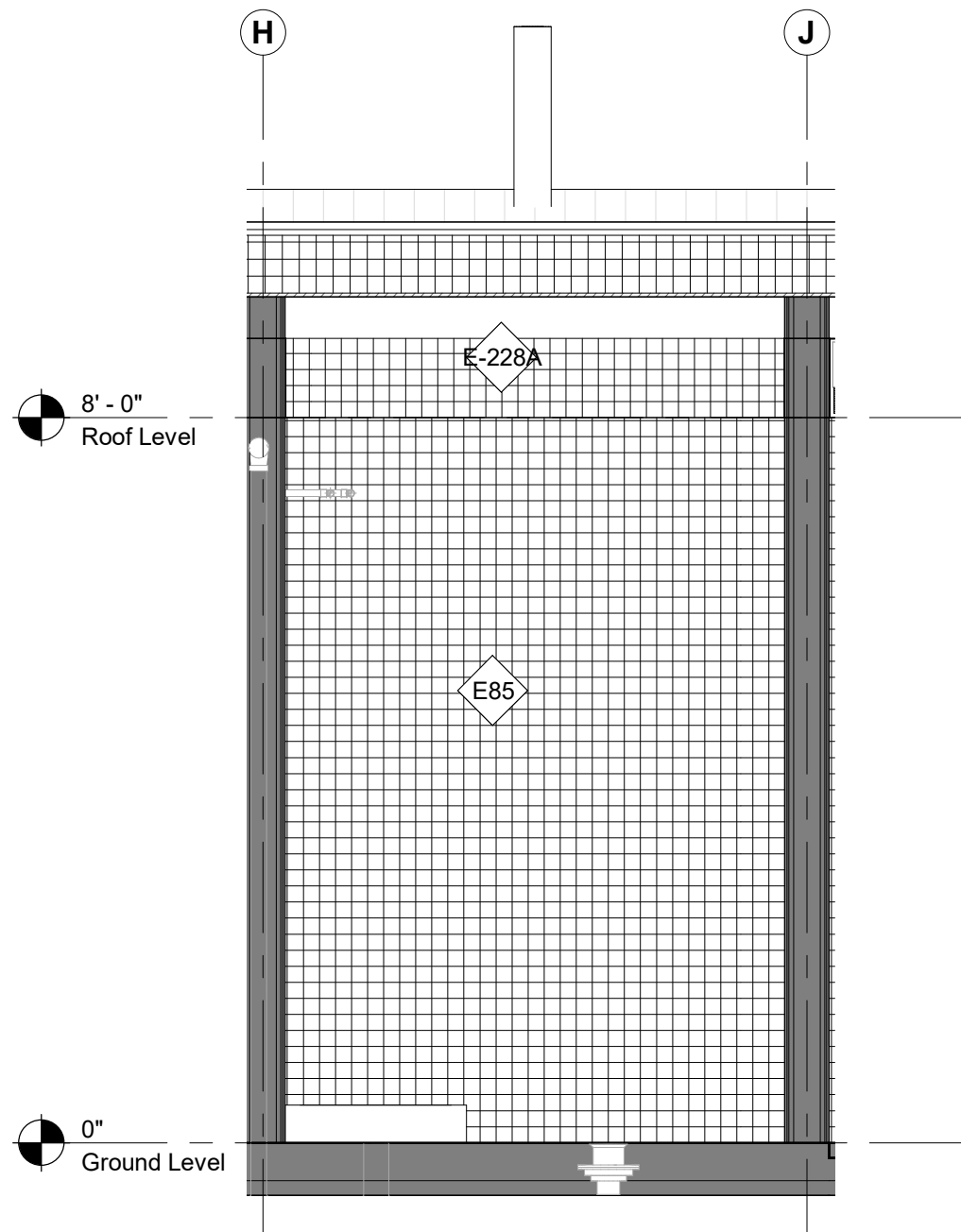
3 Room Elevation - Restroom Typ. - North
1/2" = 1'-0"



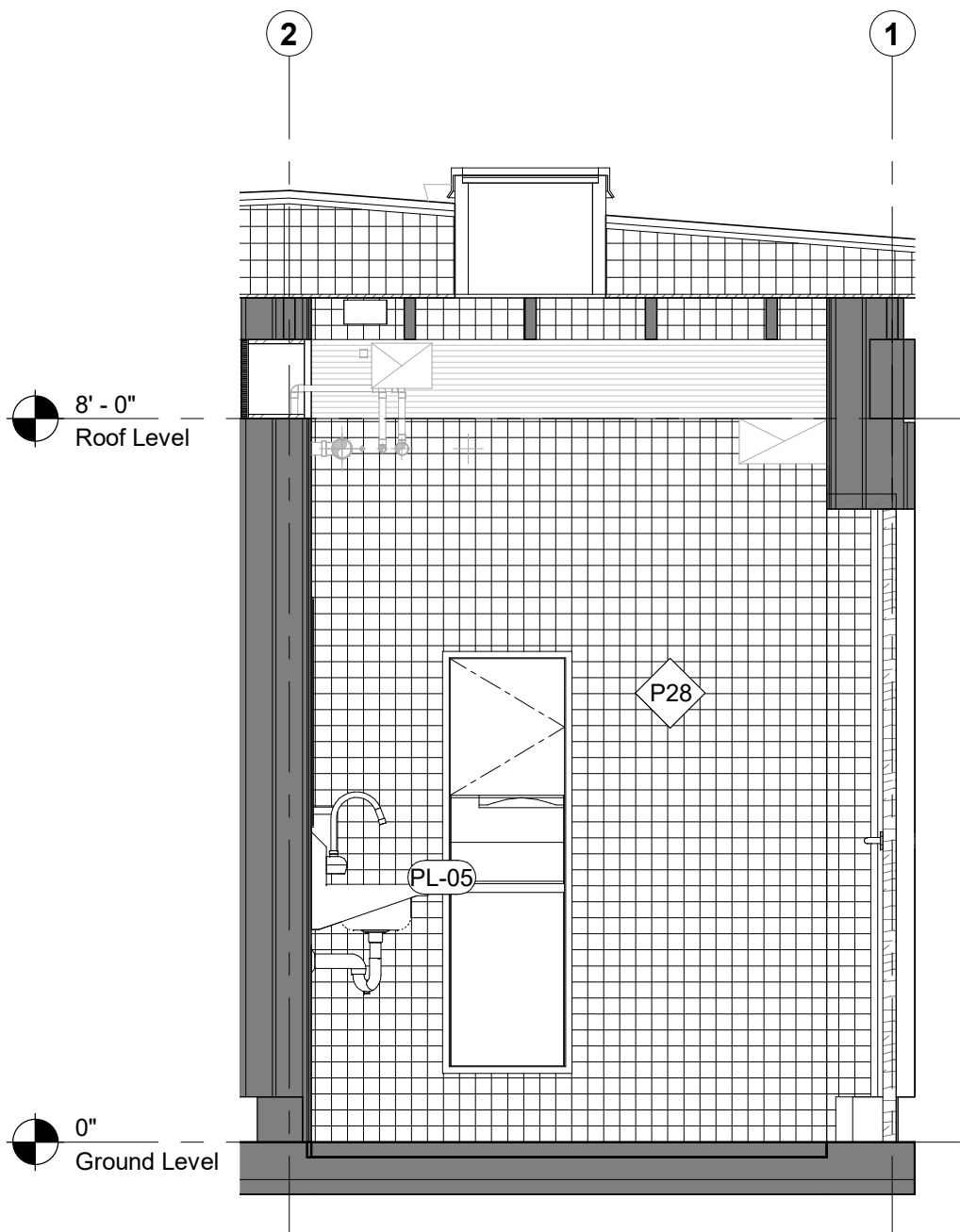
4 Room Elevation - Restroom Typ. - East
1/2" = 1'-0"



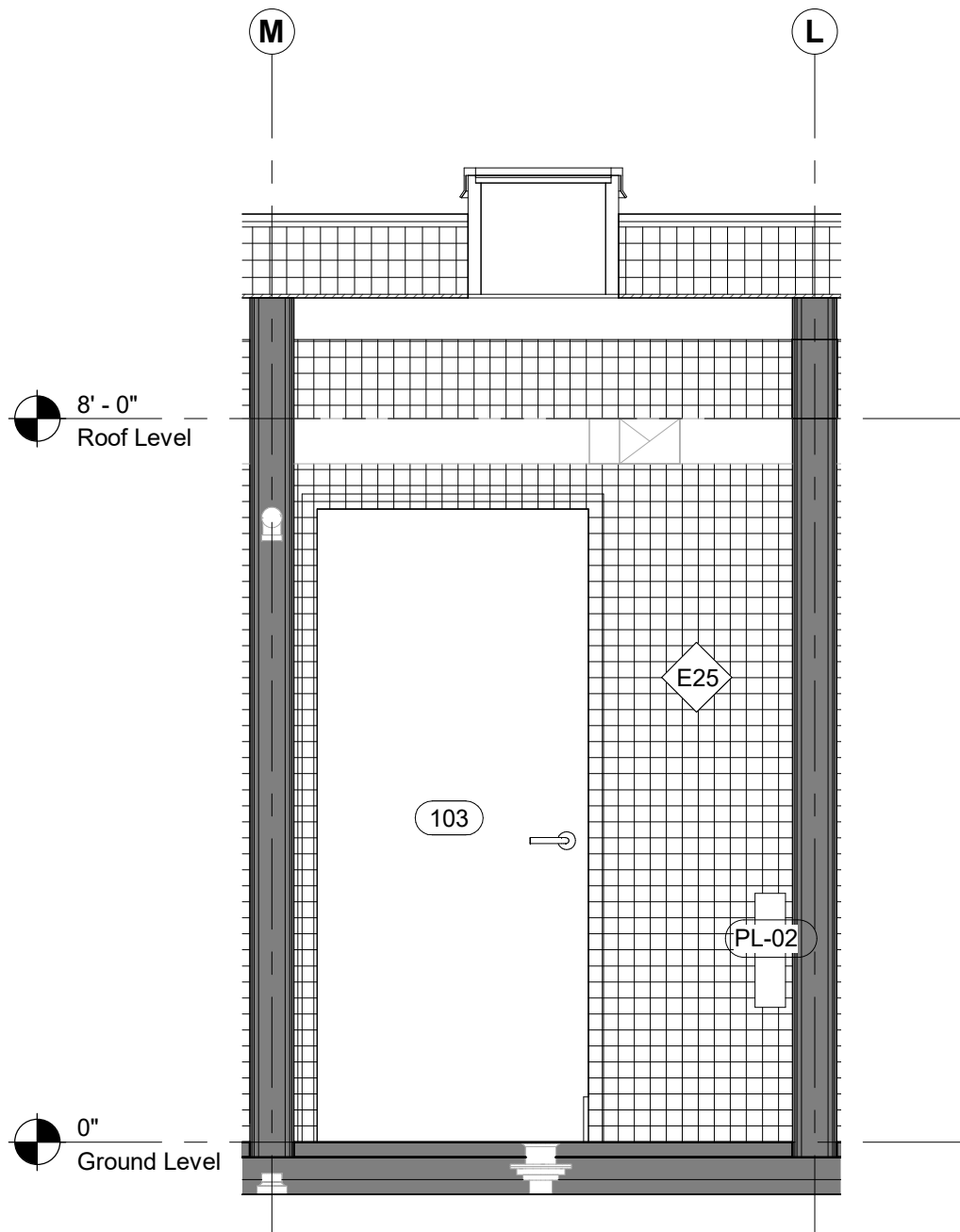
9 Room Elevation - Custodian - North
1/2" = 1'-0"



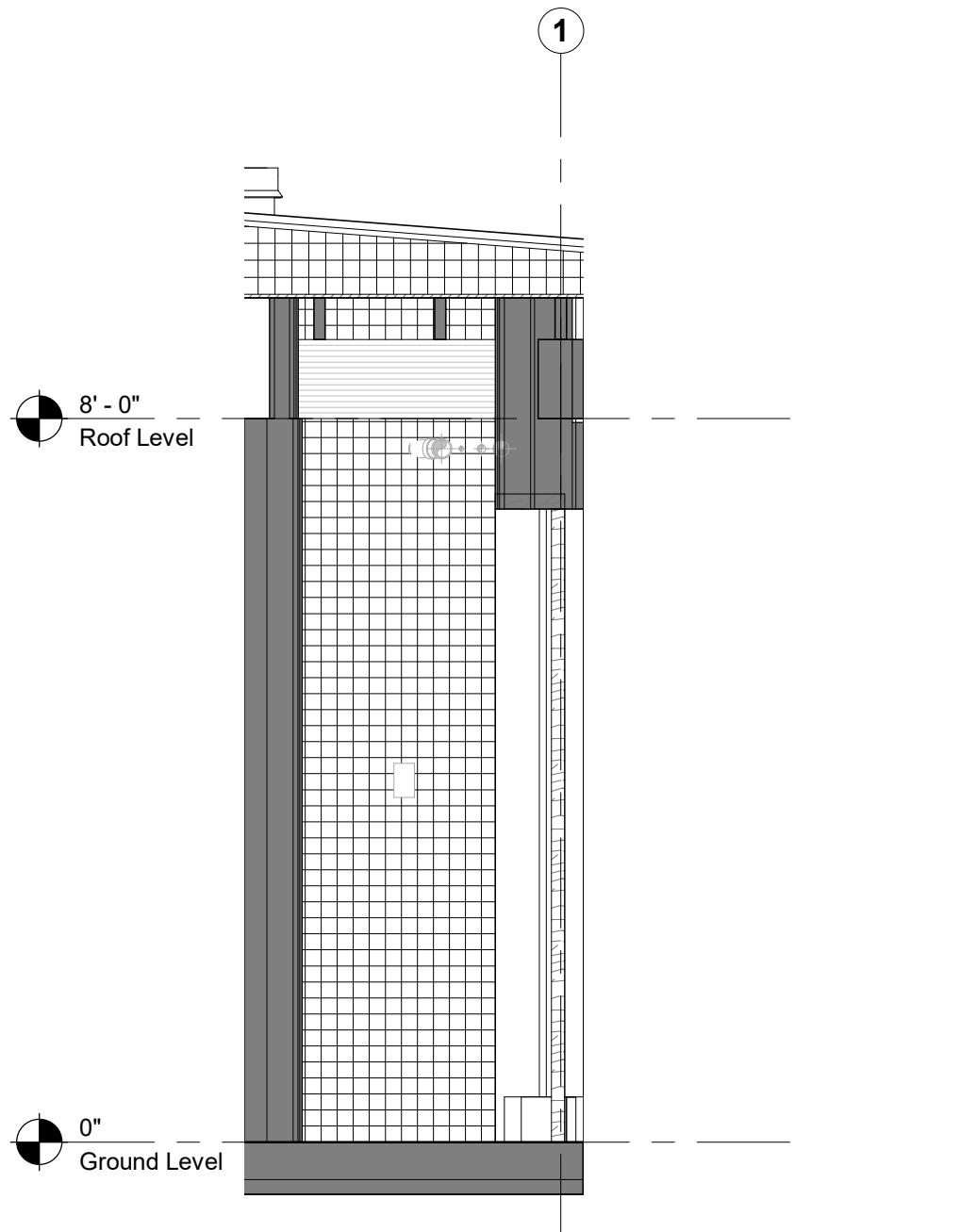
10 Room Elevation - Custodian - East
1/2" = 1'-0"



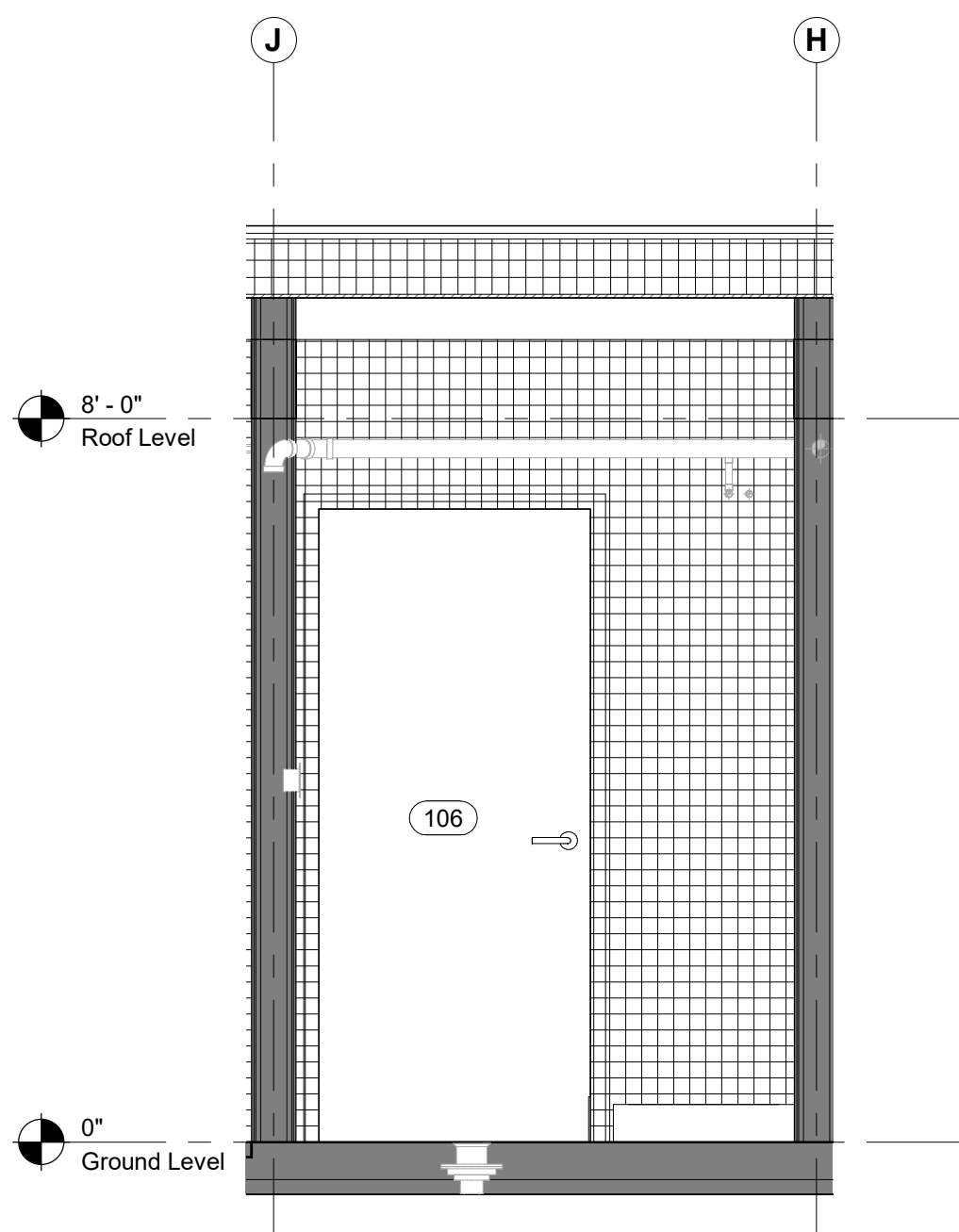
5 Room Elevation - Restroom Typ. - South
1/2" = 1'-0"



6 Room Elevation - Restroom Typ. - West
1/2" = 1'-0"



11 Room Elevation - Custodian - South
1/2" = 1'-0"



12 Room Elevation - Custodian - West
1/2" = 1'-0"

Keynote Legend

Keynote Description

Owner

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Key Plan

Description	Date
50% Construction Documents	11/06/20

Project

Storm King Art Center Pond Pavilion

Seal

NOT FOR CONSTRUCTION

Drawing Title

Room Plans & Elevations - 103 & 106

Date	11/06/20
Scale	1/2" = 1'-0"
Drawing Number	A-P-602
Sheet Size	ARCH D

Keynote Legend	
Keynote	Description

Owner
Storm King Art Center
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Key Plan



Description	Date
50% Construction Documents	11/06/20

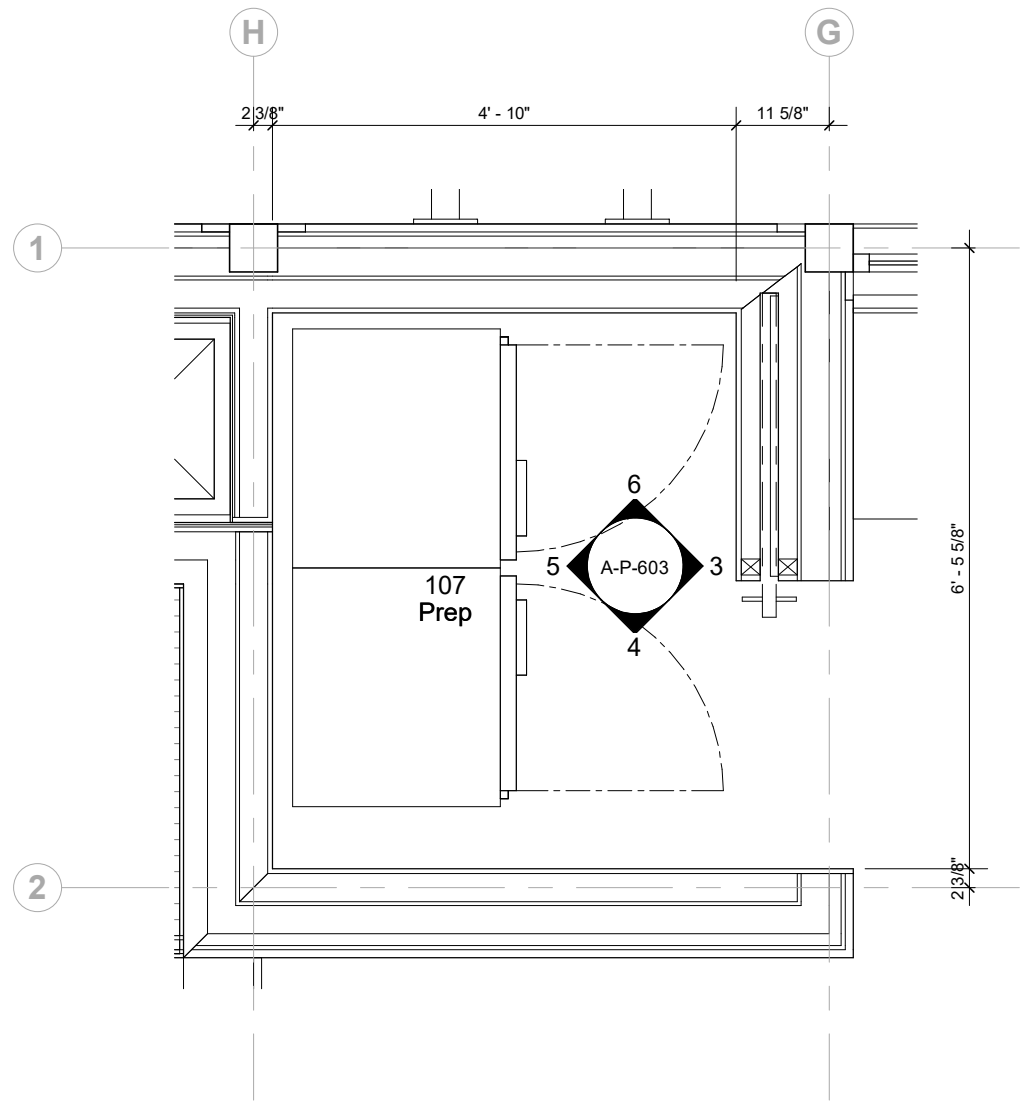
Project

Storm King Art Center Pond Pavilion

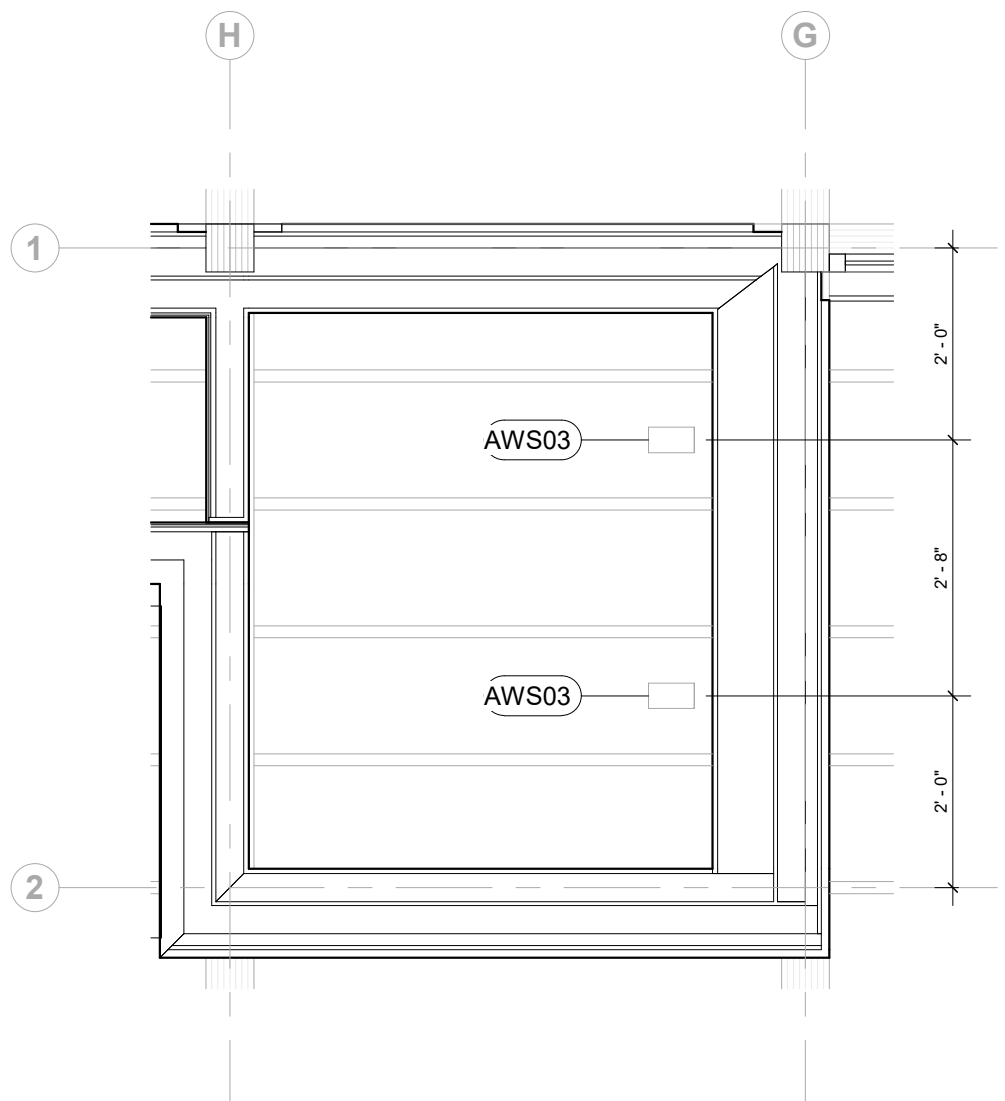
Seal

NOT FOR CONSTRUCTION
Drawing Title
Room Plans &
Elevations - 107

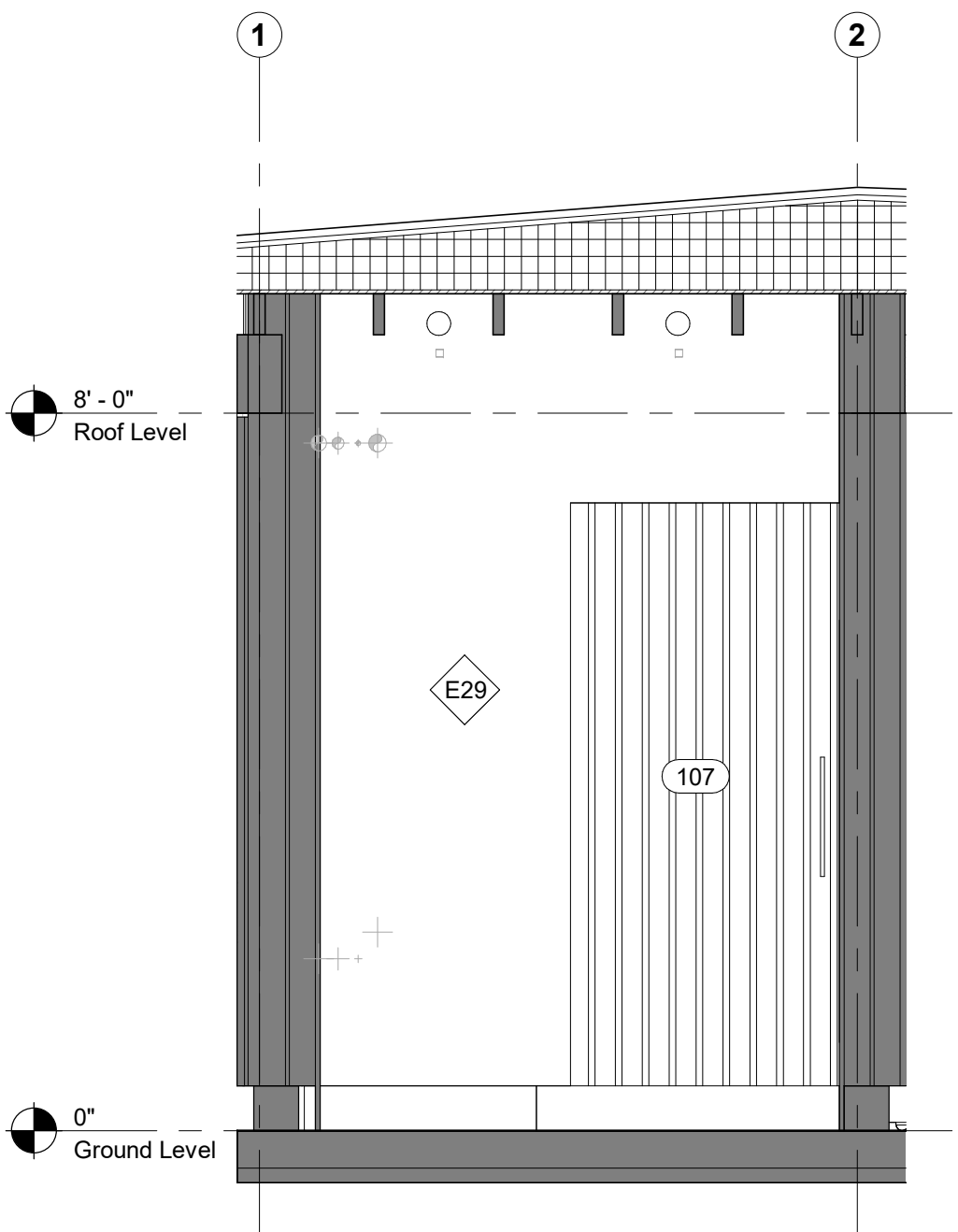
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Scale	1/2" = 1'-0"
Drawing Number	A-P-603
Sheet Size	ARCH D



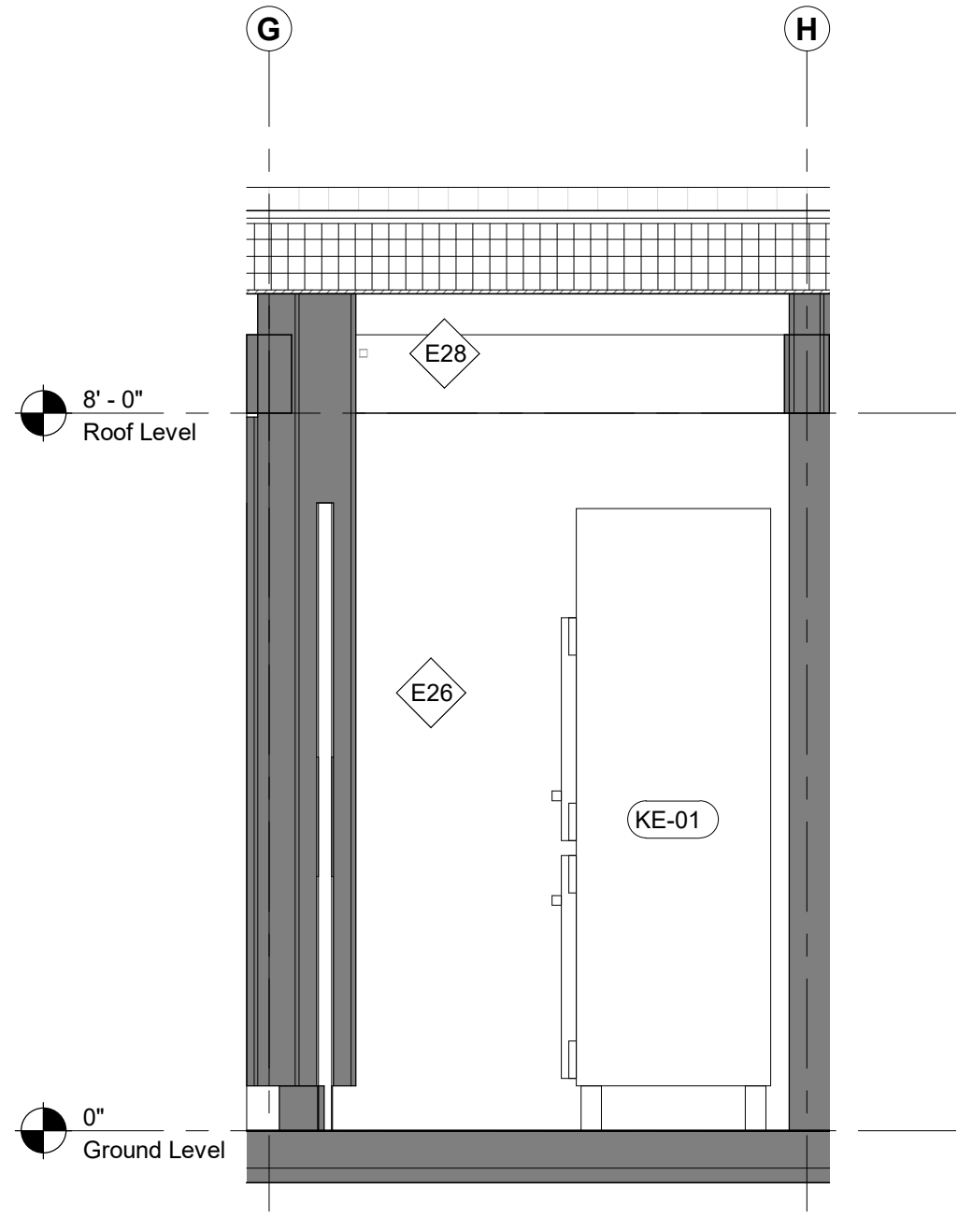
1 Room Plan - Prep Room
1/2" = 1'-0"



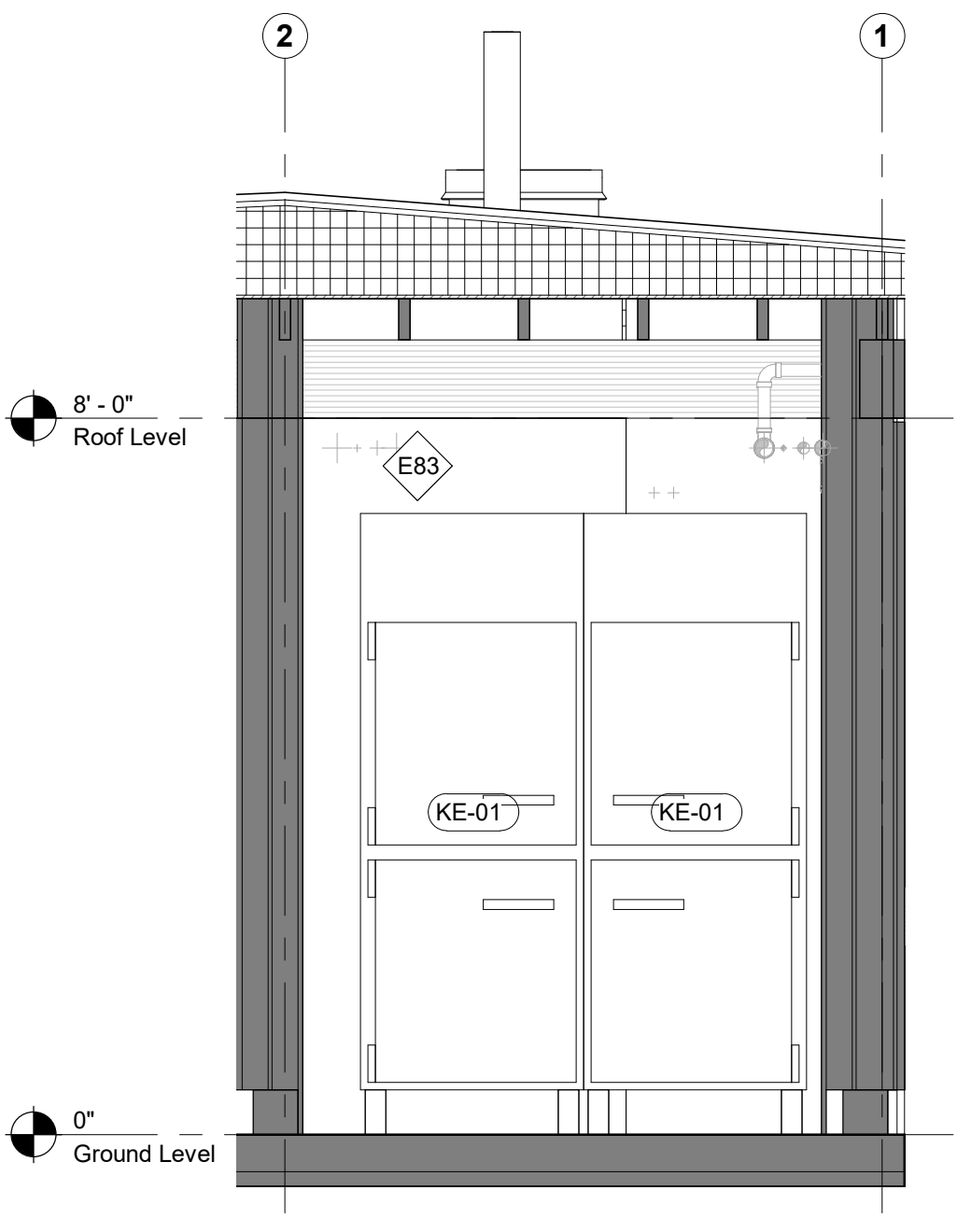
2 Room RCP - Prep Room
1/2" = 1'-0"



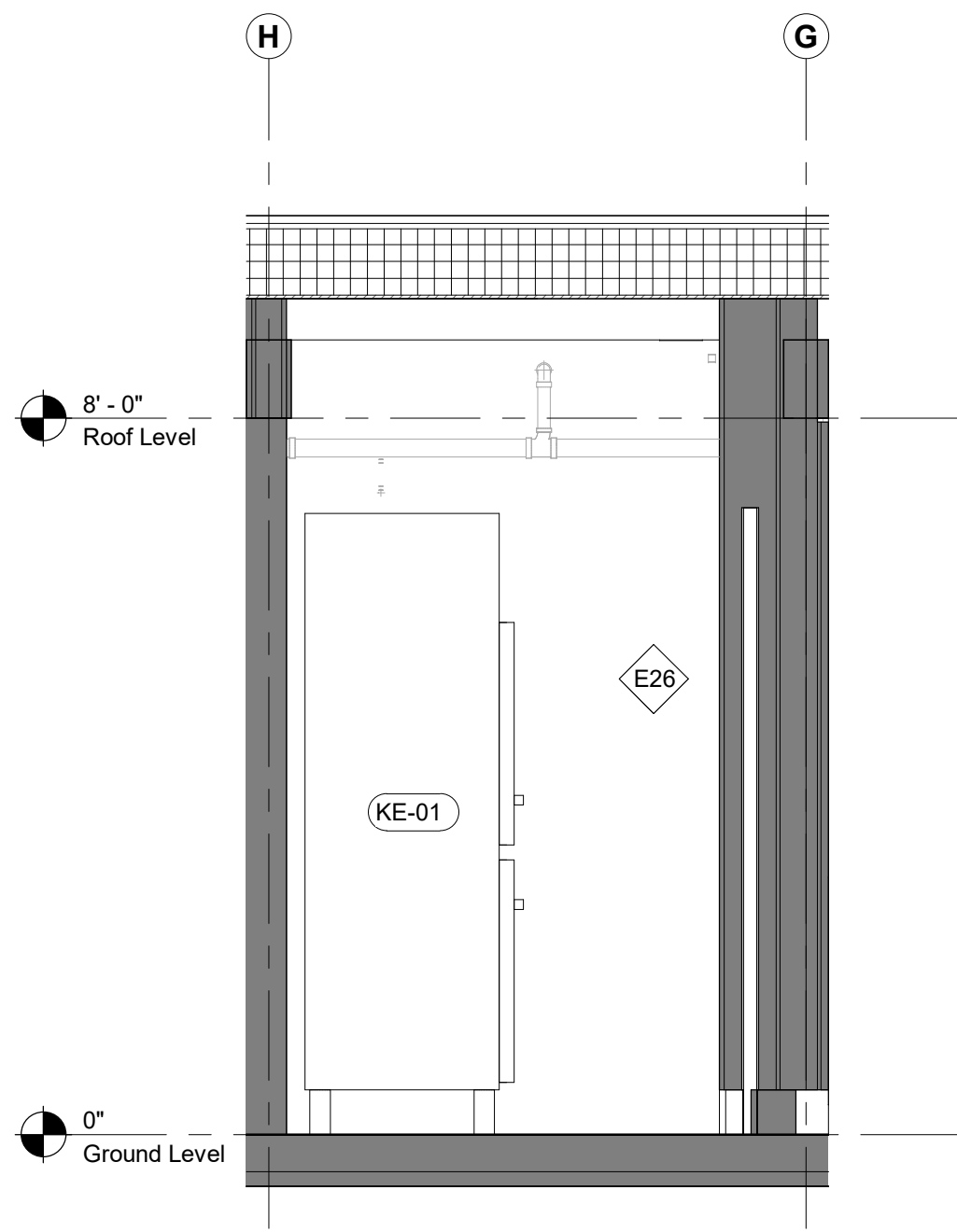
3 Room Elevation - Prep Room - North
1/2" = 1'-0"



4 Room Elevation - Prep Room - East
1/2" = 1'-0"



5 Room Elevation - Prep Room - South
1/2" = 1'-0"



6 Room Elevation - Prep Room - West
1/2" = 1'-0"

Keynote Legend	
Keynote	Description

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Storm King Art Center
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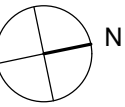
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Key Plan



Description	Date
50% Construction Documents	11/06/20

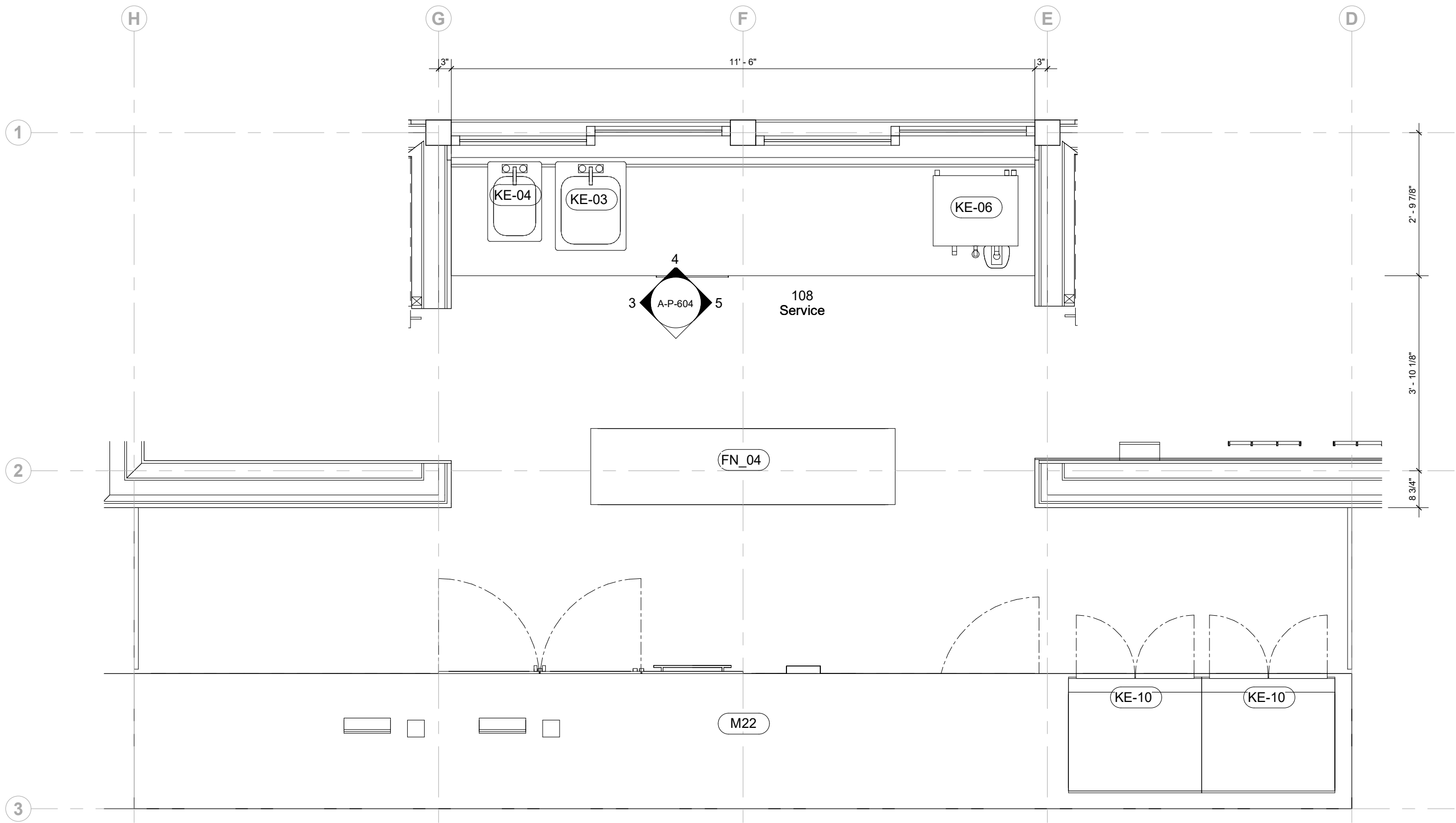
Project

Storm King Art Center Pond Pavilion

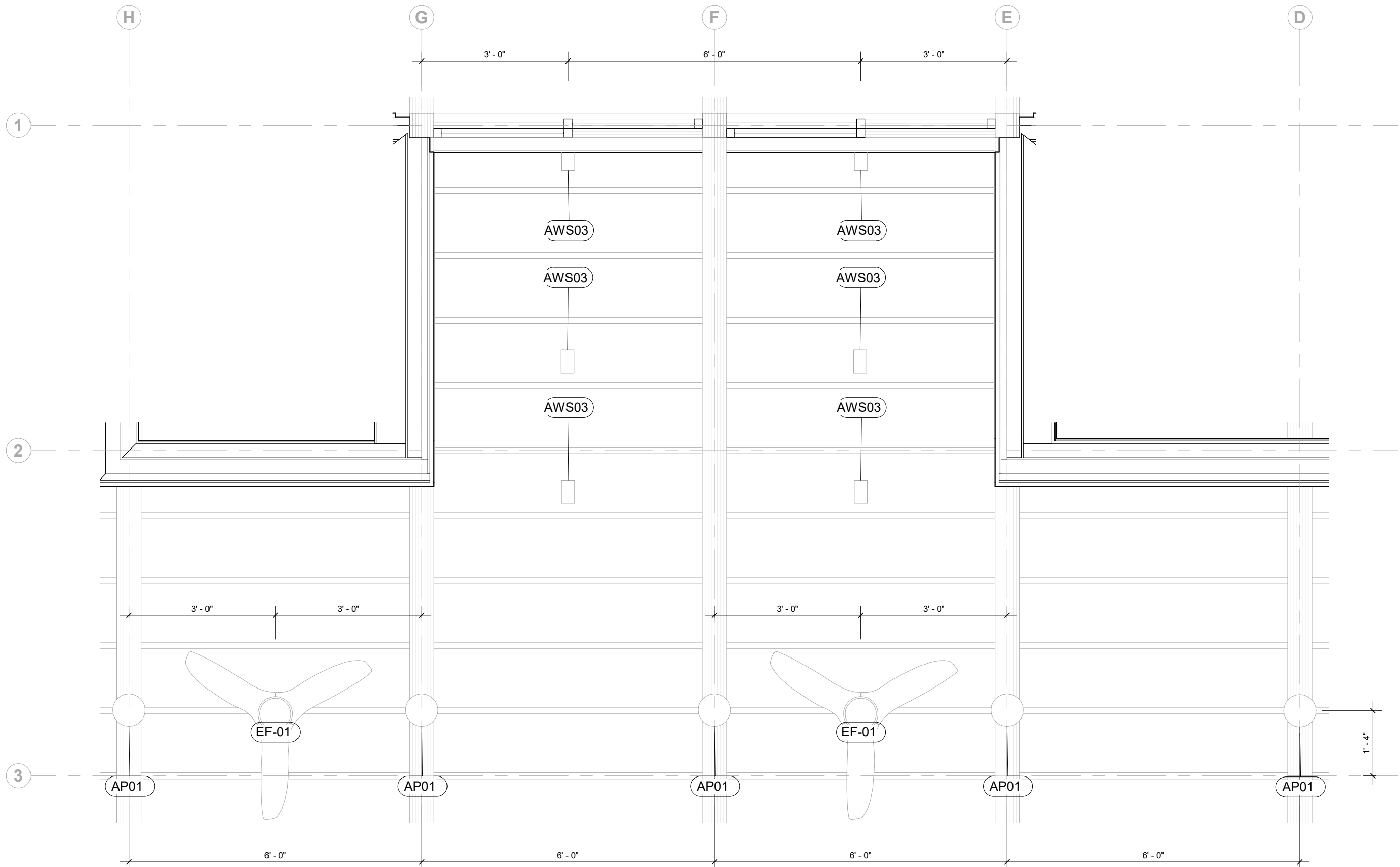
Seal

NOT FOR CONSTRUCTION
Drawing Title
Room Plans &
Elevations - 108

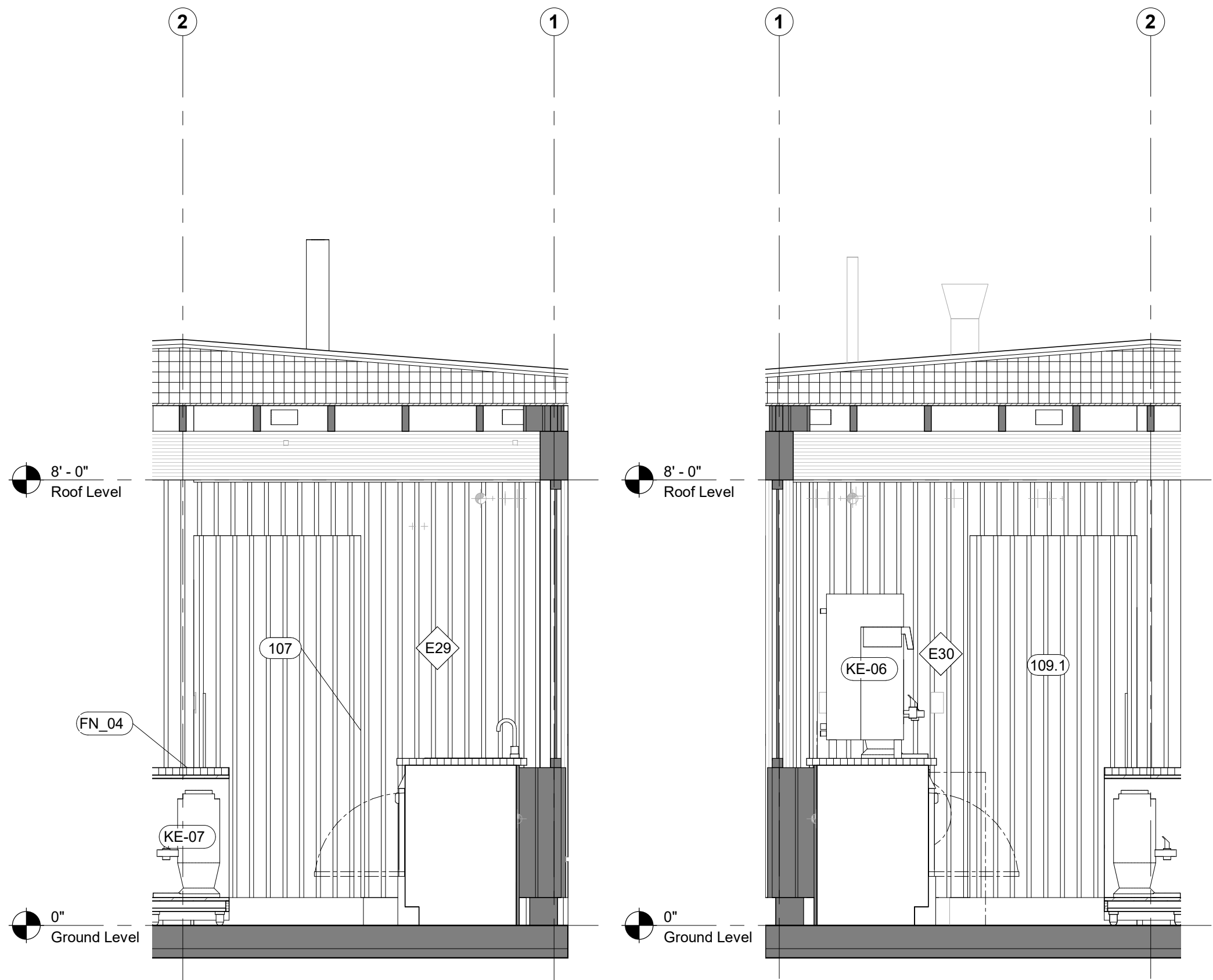
Date	11/06/20
Scale	1/2" = 1'-0"
Drawing Number	A-P-604
Sheet Size	ARCH D



1 Room Plan - Service
1/2" = 1'-0"

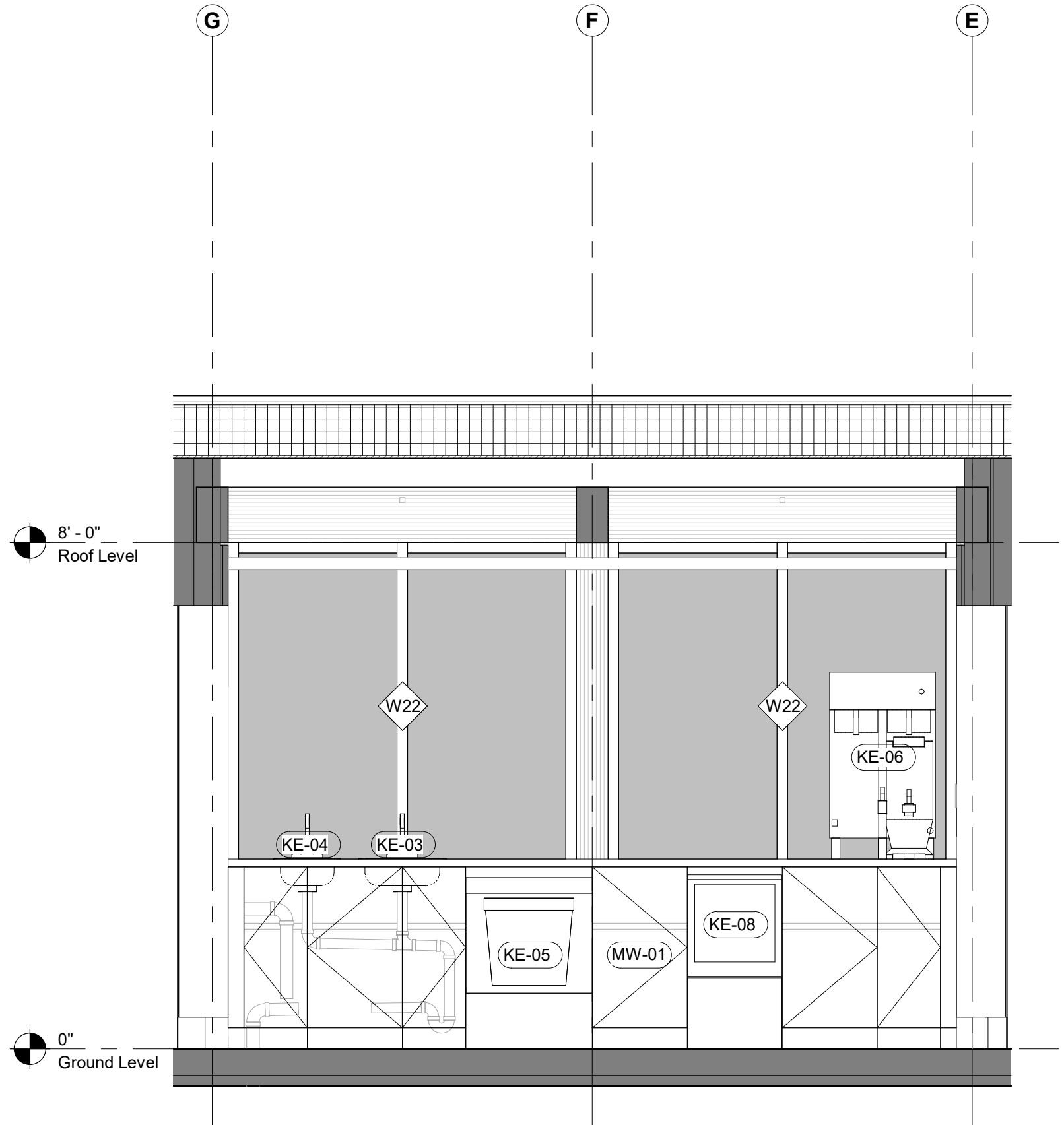


2 Room RCP - Service
1/2" = 1'-0"



3 Room Elevation - Service - South
1/2" = 1'-0"

5 Room Elevation - Service - North
1/2" = 1'-0"



4 Room Elevation - Service - West
1/2" = 1'-0"

Keynote Legend	
Keynote	Description

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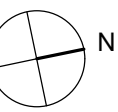
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+1 (212) 616-0228

Civil
VHB
100 Great Oaks Blvd., Suite 118
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76 Beaver Street, 2nd Floor
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+1 (347) 788-0810

Facade
Front Inc.
100 E. Broadway Street, #501
New York, NY 10002
+1 (212) 242-2220

Key Plan



Description	Date
50% Construction Documents	11/06/20

Project

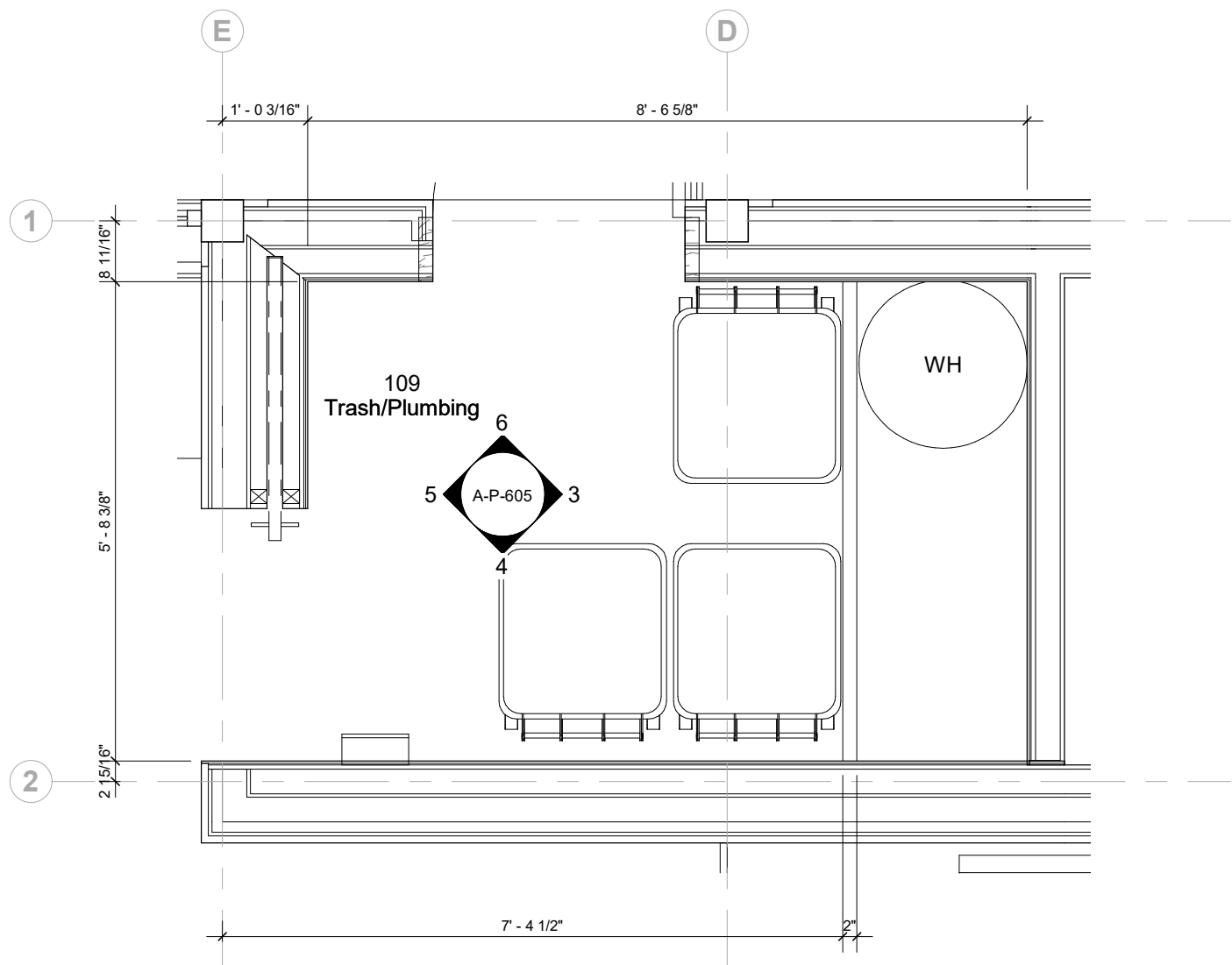
Storm King Art Center Pond Pavilion

Seal

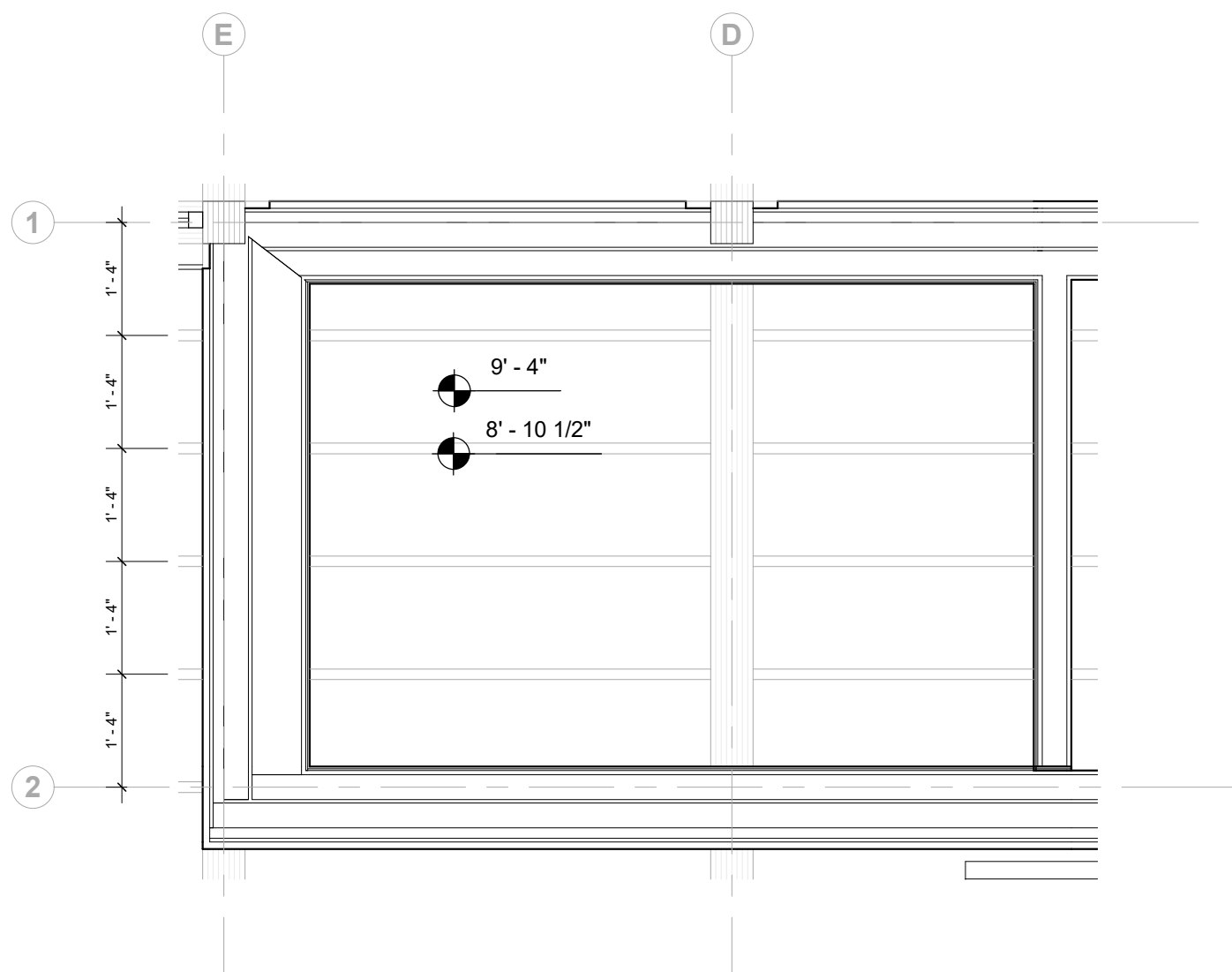
NOT FOR CONSTRUCTION

Drawing Title
Room Plans &
Elevations - 109 &
110

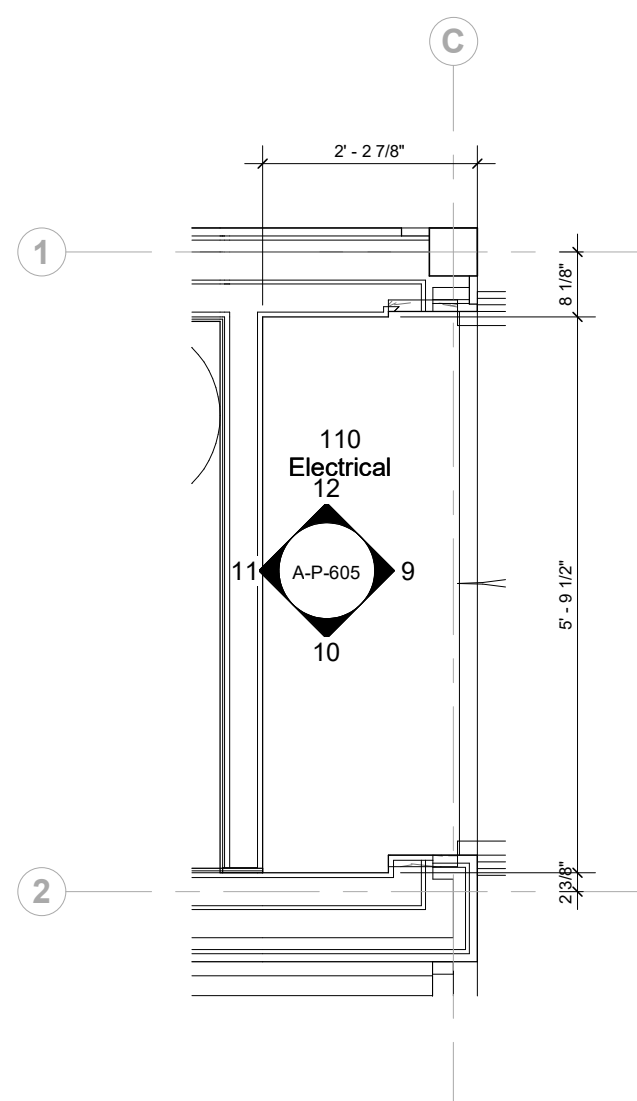
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Drawing Number	A-P-605
Sheet Size	ARCH D



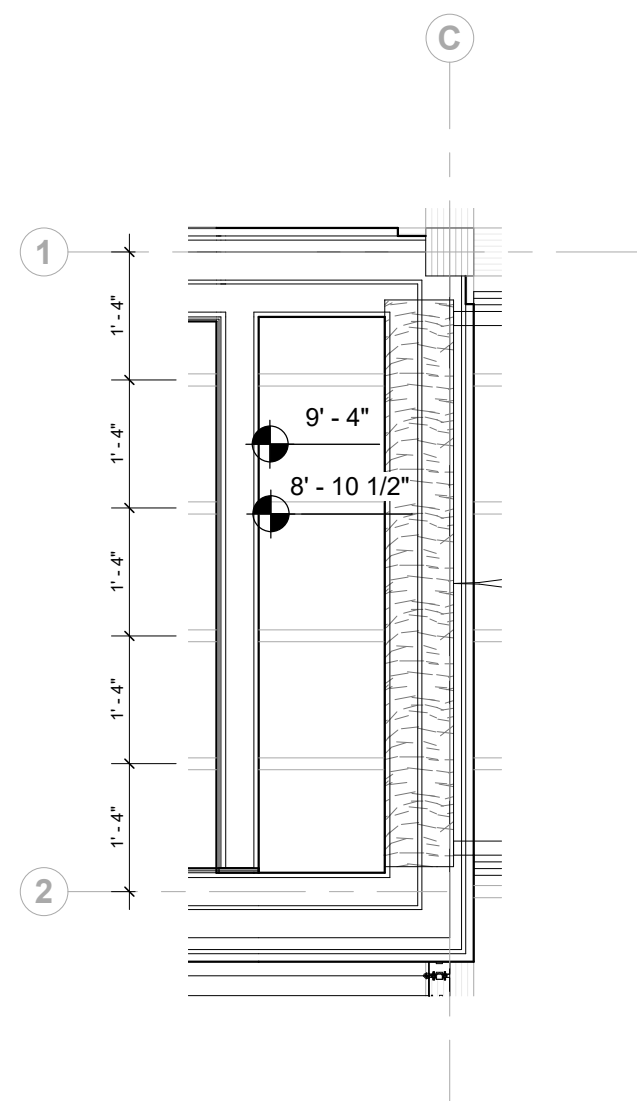
1 Room Plan - Trash
1/2" = 1'-0"



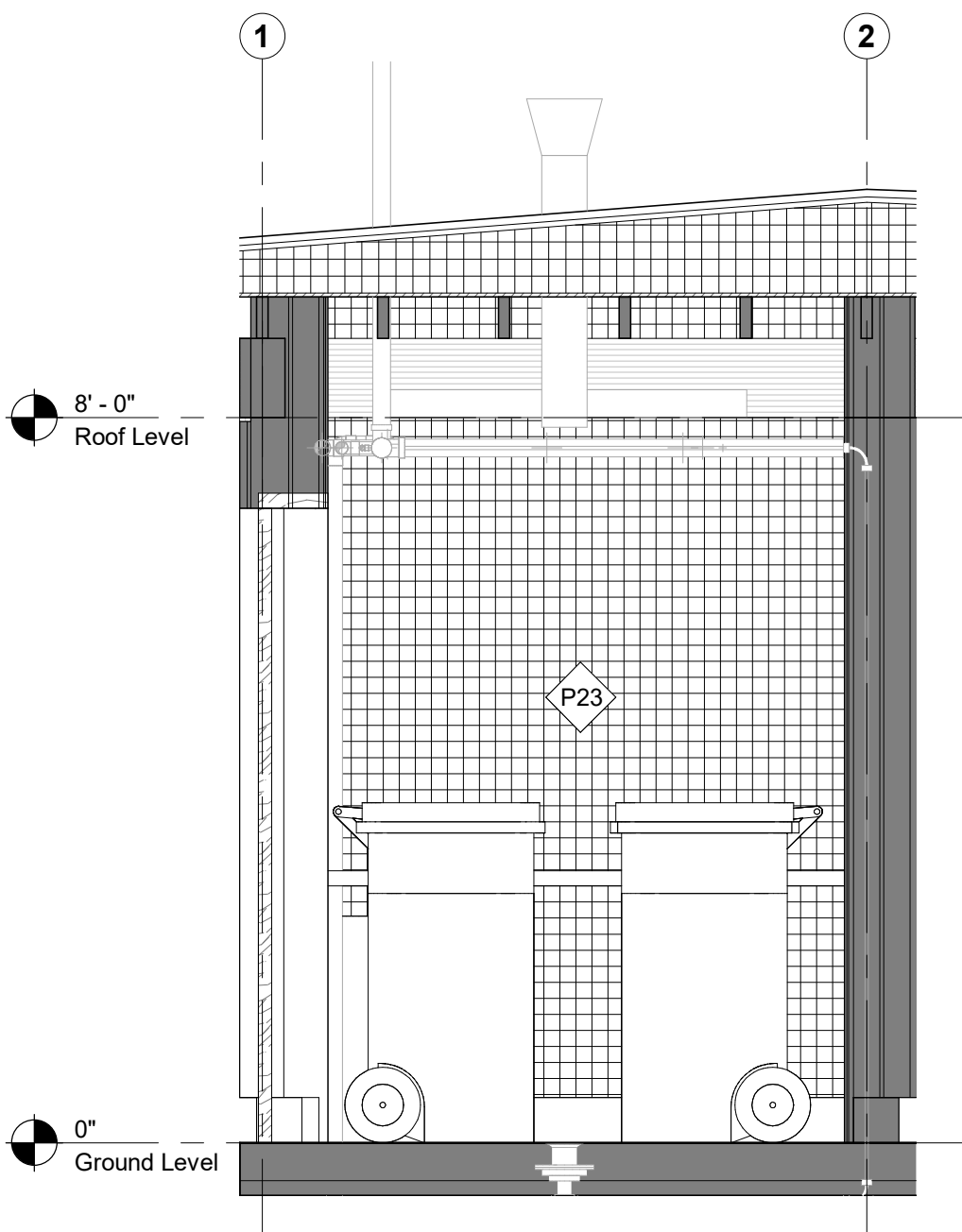
2 Room RCP - Trash
1/2" = 1'-0"



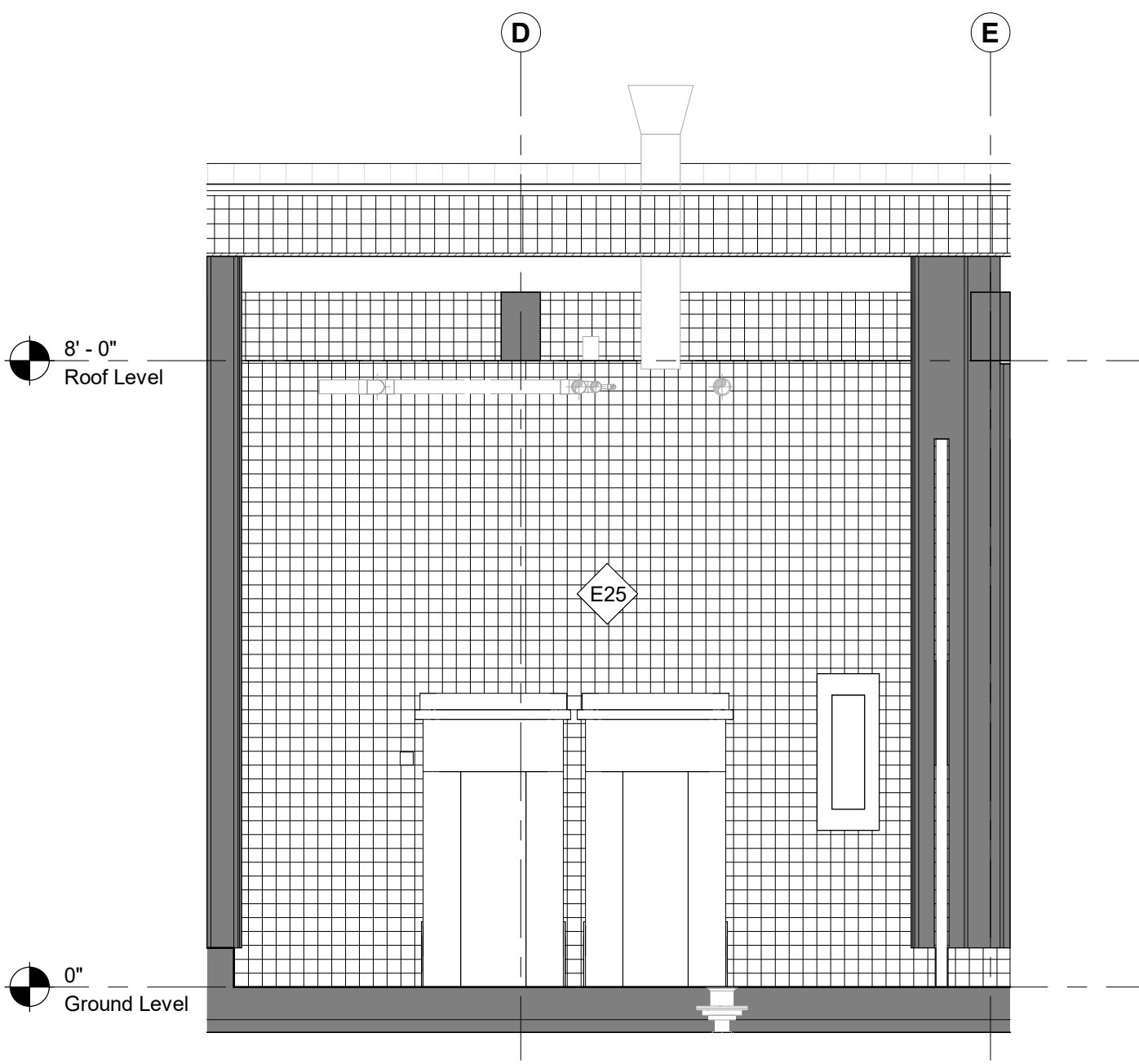
7 Room Plan - Electrical
1/2" = 1'-0"



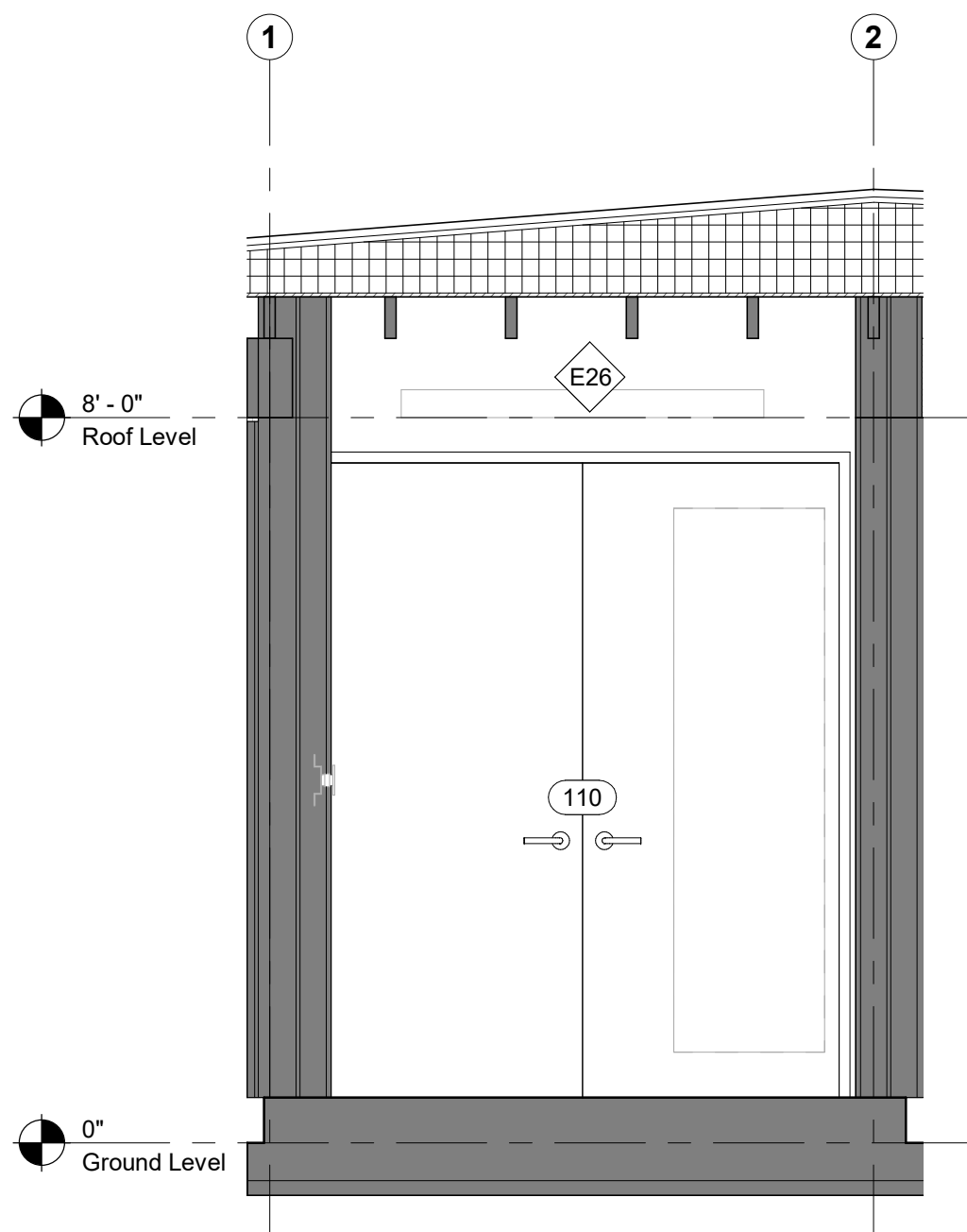
8 Room RCP - Electrical
1/2" = 1'-0"



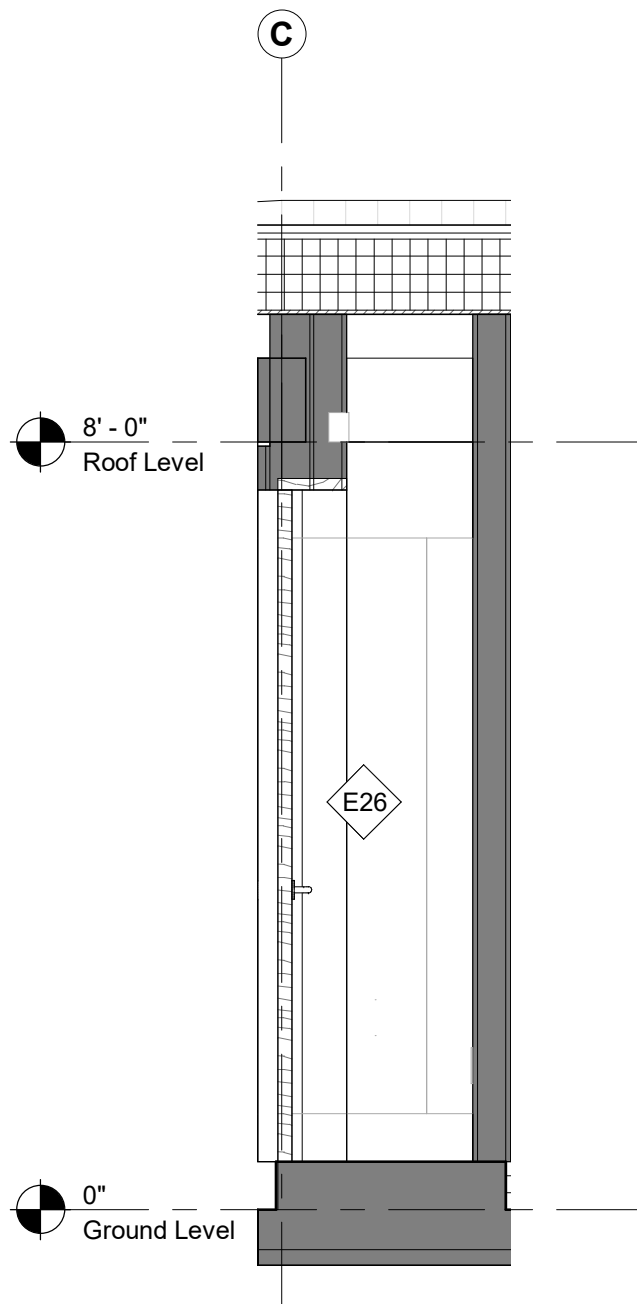
3 Room Elevation - Trash - North
1/2" = 1'-0"



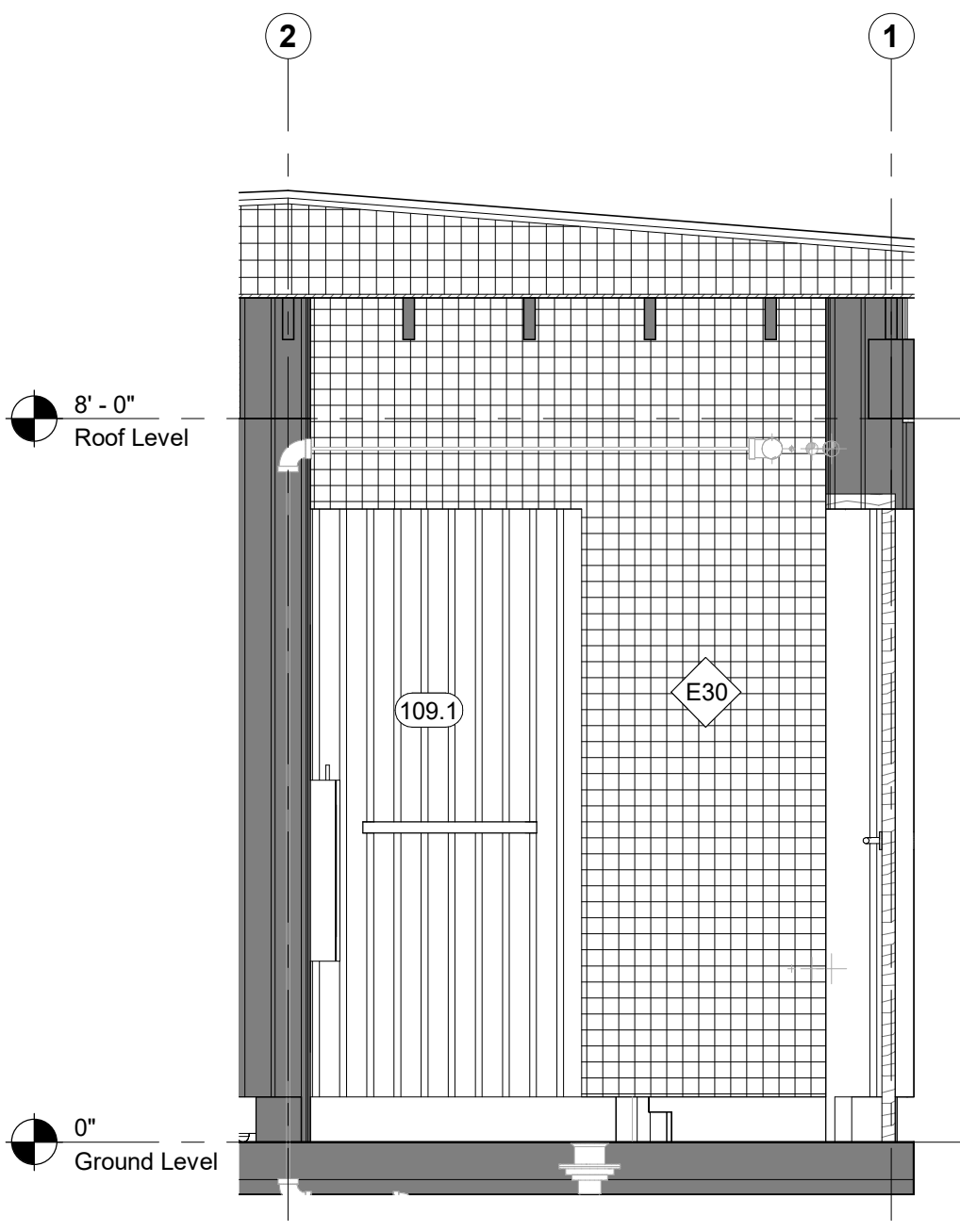
4 Room Elevation - Trash - East
1/2" = 1'-0"



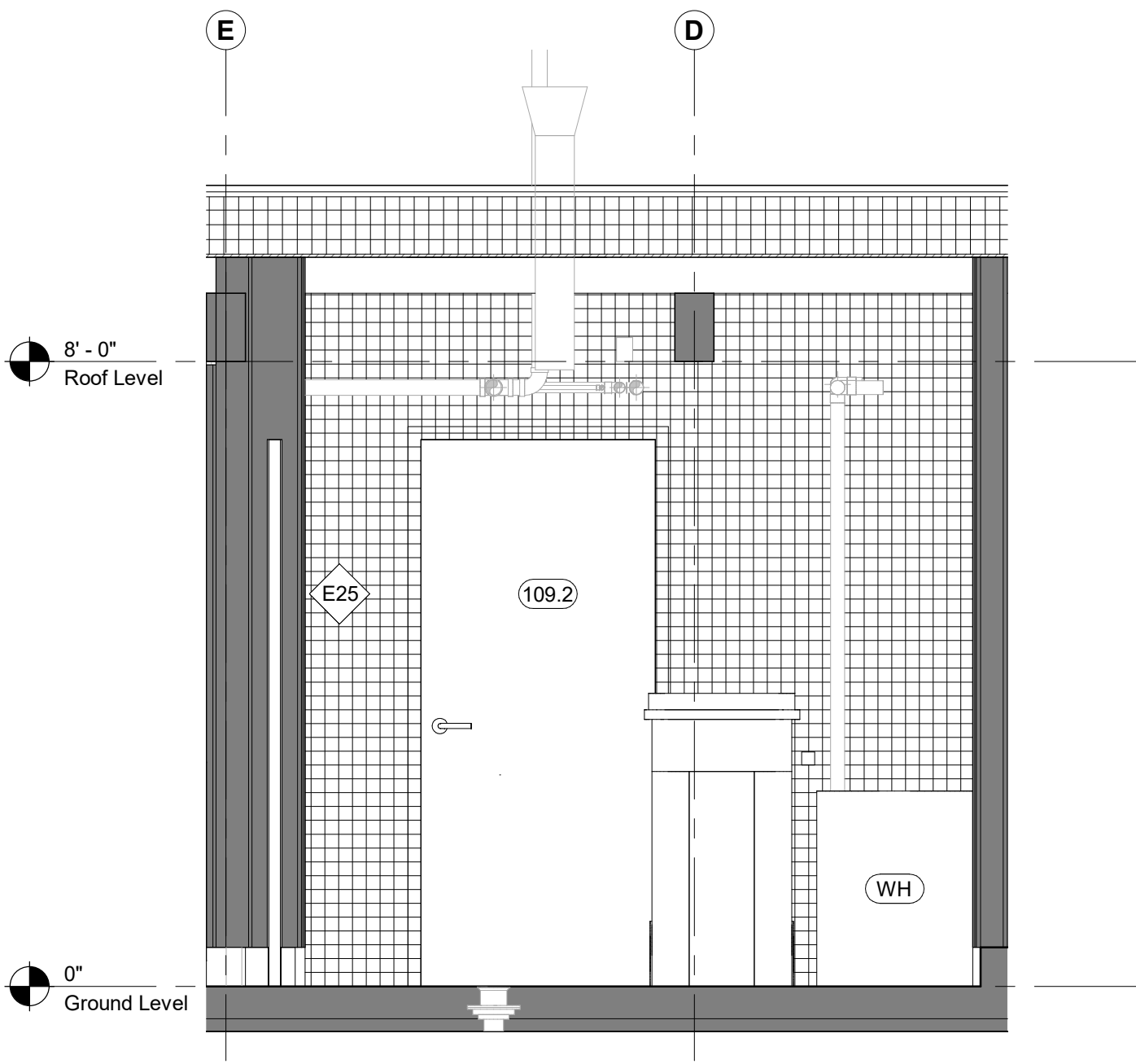
9 Room Elevation - Electrical - North
1/2" = 1'-0"



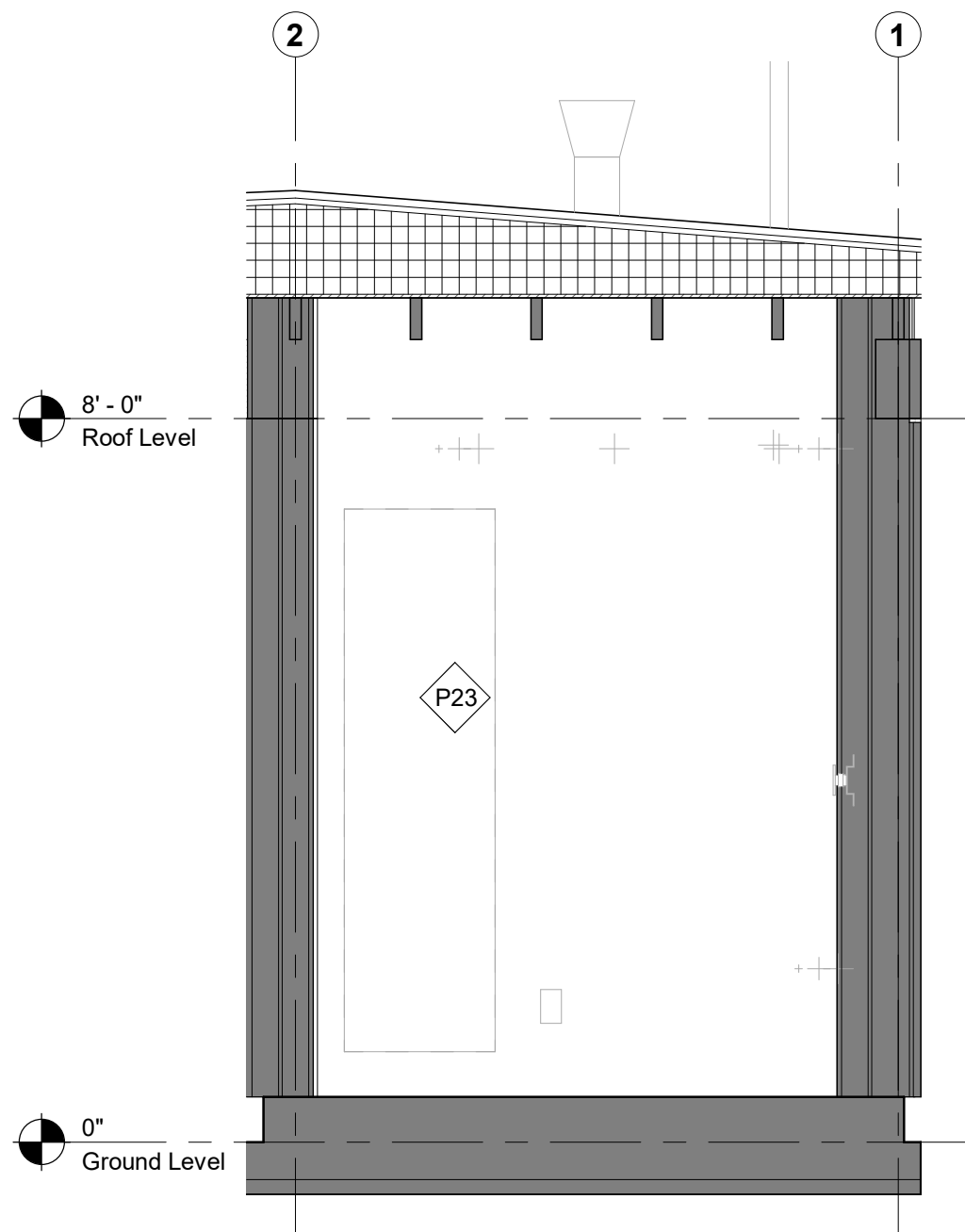
10 Room Elevation - Electrical - East
1/2" = 1'-0"



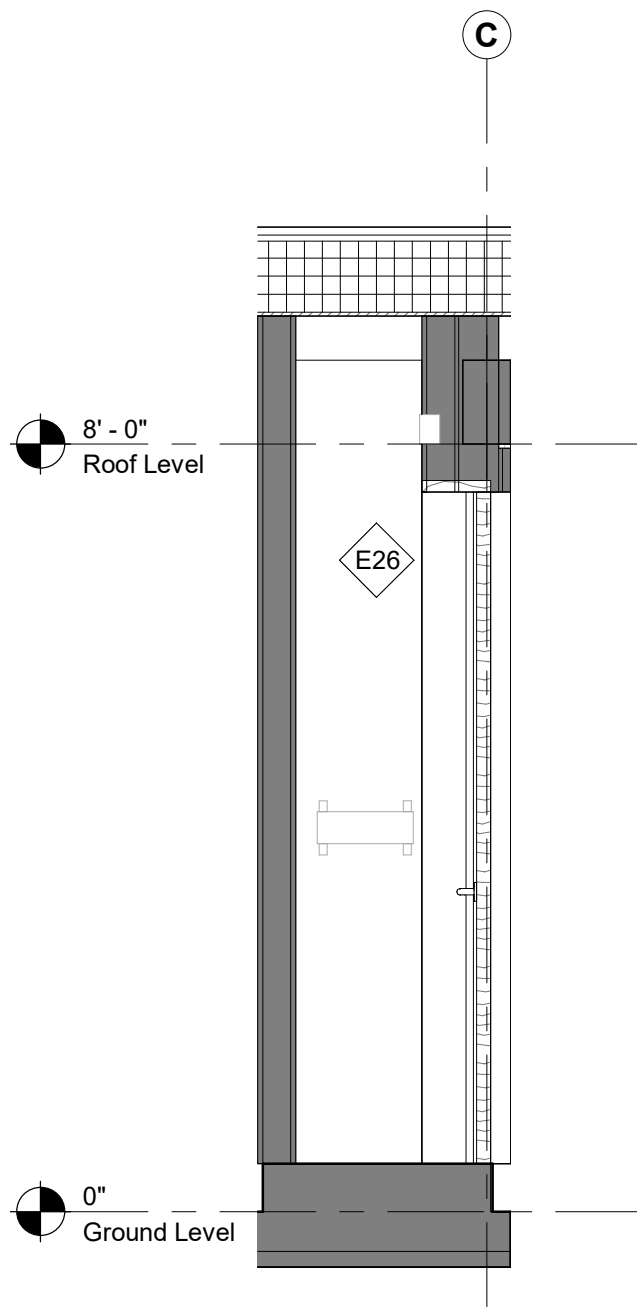
5 Room Elevation - Trash - South
1/2" = 1'-0"



6 Room Elevation - Trash - West
1/2" = 1'-0"



11 Room Elevation - Electrical - South
1/2" = 1'-0"



12 Room Elevation - Electrical - West
1/2" = 1'-0"

Keynote Legend	
Keynote	Description

- Owner**
Storm King Art Center
1 Museum Road
New Windsor, NY 12553
+1 (845) 534-3115
- Design Architect**
heneghan peng architects
14-16 Lord Edward Street
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+353 1 633 9000
- Executive Architect**
WXY Architecture + Urban Design
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New York, NY 10013
+1 (212) 219-1953
- Landscape Architect**
Gustafson Porter + Bowman
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- Reed Hilderbrand LLC**
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+1 (617) 923-2422
- Structural & Lighting**
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Key Plan



Description	Date
50% Construction Documents	11/06/20

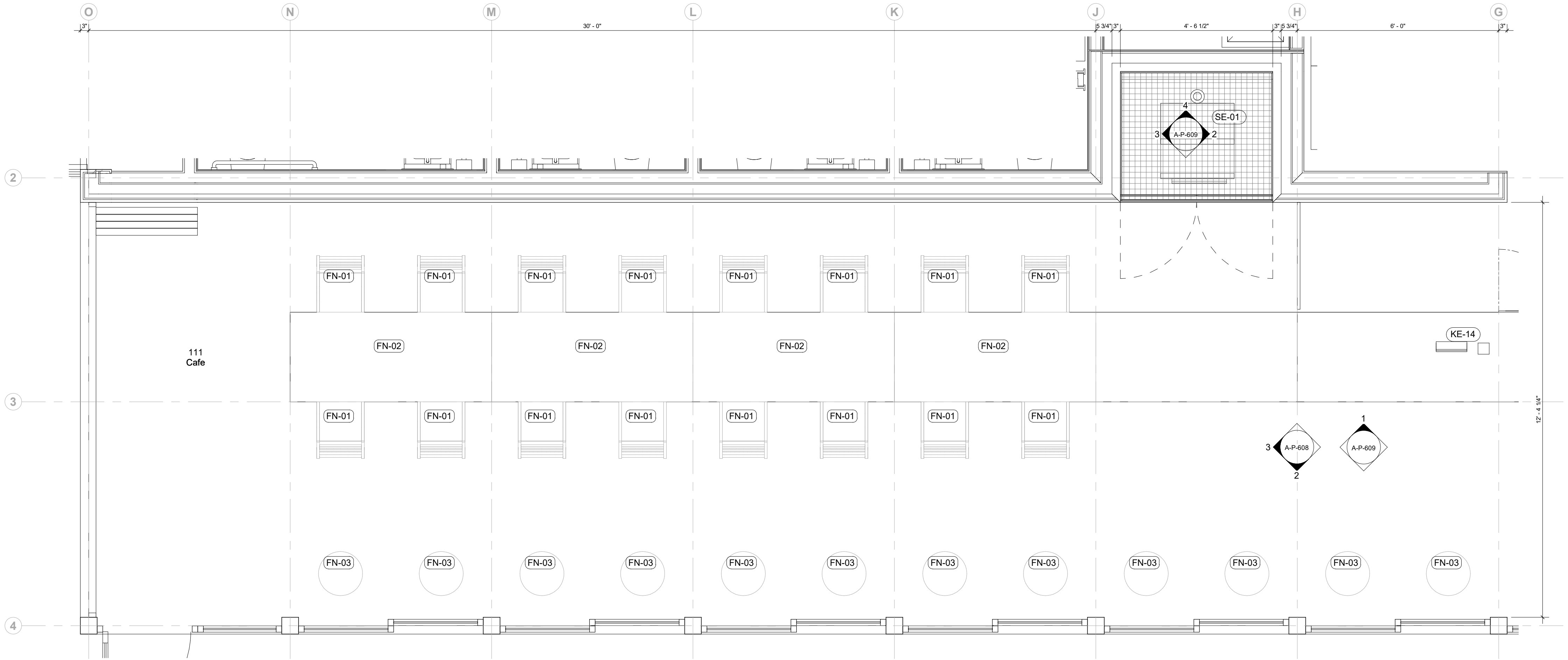
Project

Storm King Art Center Pond Pavilion

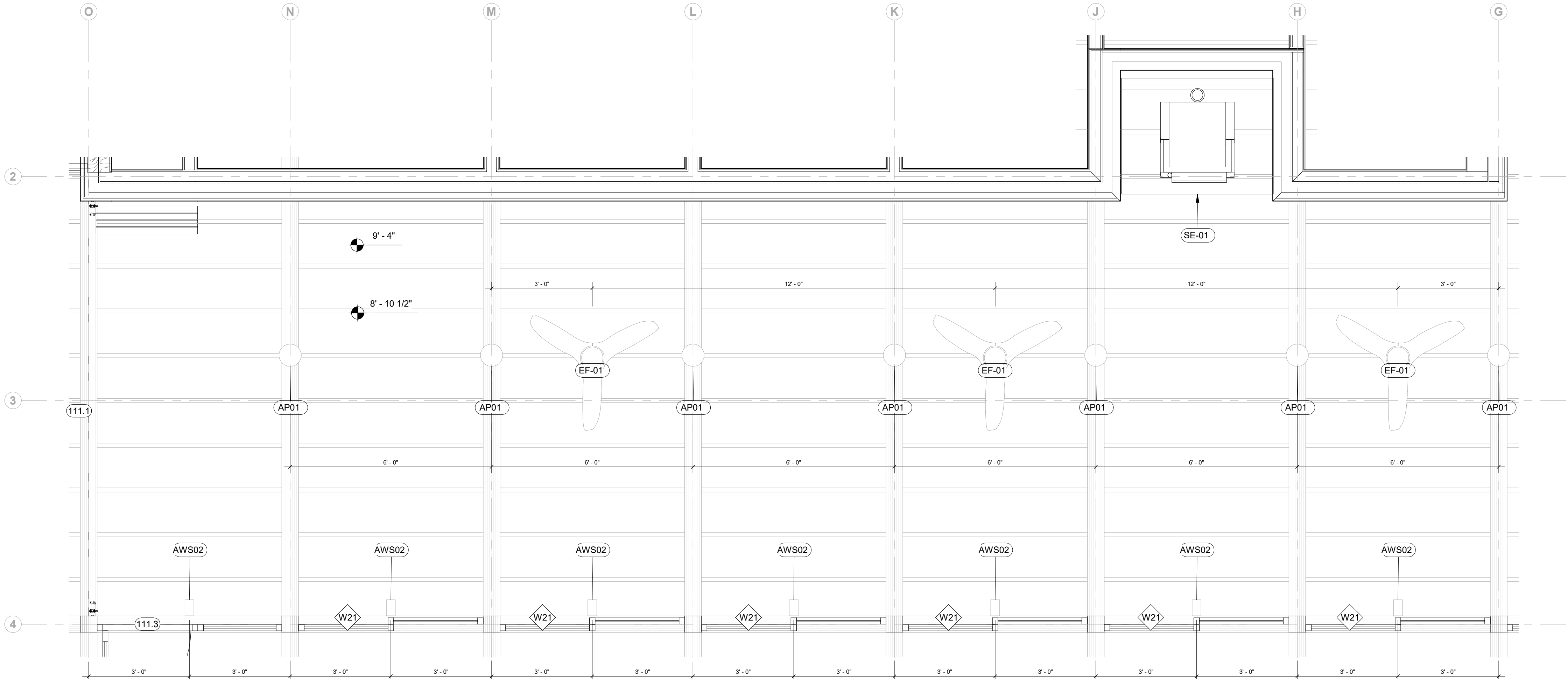
Seal

NOT FOR CONSTRUCTION
Drawing Title
Room Plans - 111

Date	11/06/20
Scale	1/2" = 1'-0"
Drawing Number	A-P-606
Sheet Size	ARCH D



1 Room Plan - Cafe South
1/2" = 1'-0"

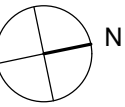


2 Room RCP - Cafe South
1/2" = 1'-0"

Keynote Legend	
Keynote	Description

- Owner**
Storm King Art Center
1 Museum Road
New Windsor, NY 12553
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- Design Architect**
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- Facade**
Front Inc.
100 E. Broadway Street, #501
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Key Plan



Description	Date
50% Construction Documents	11/06/20

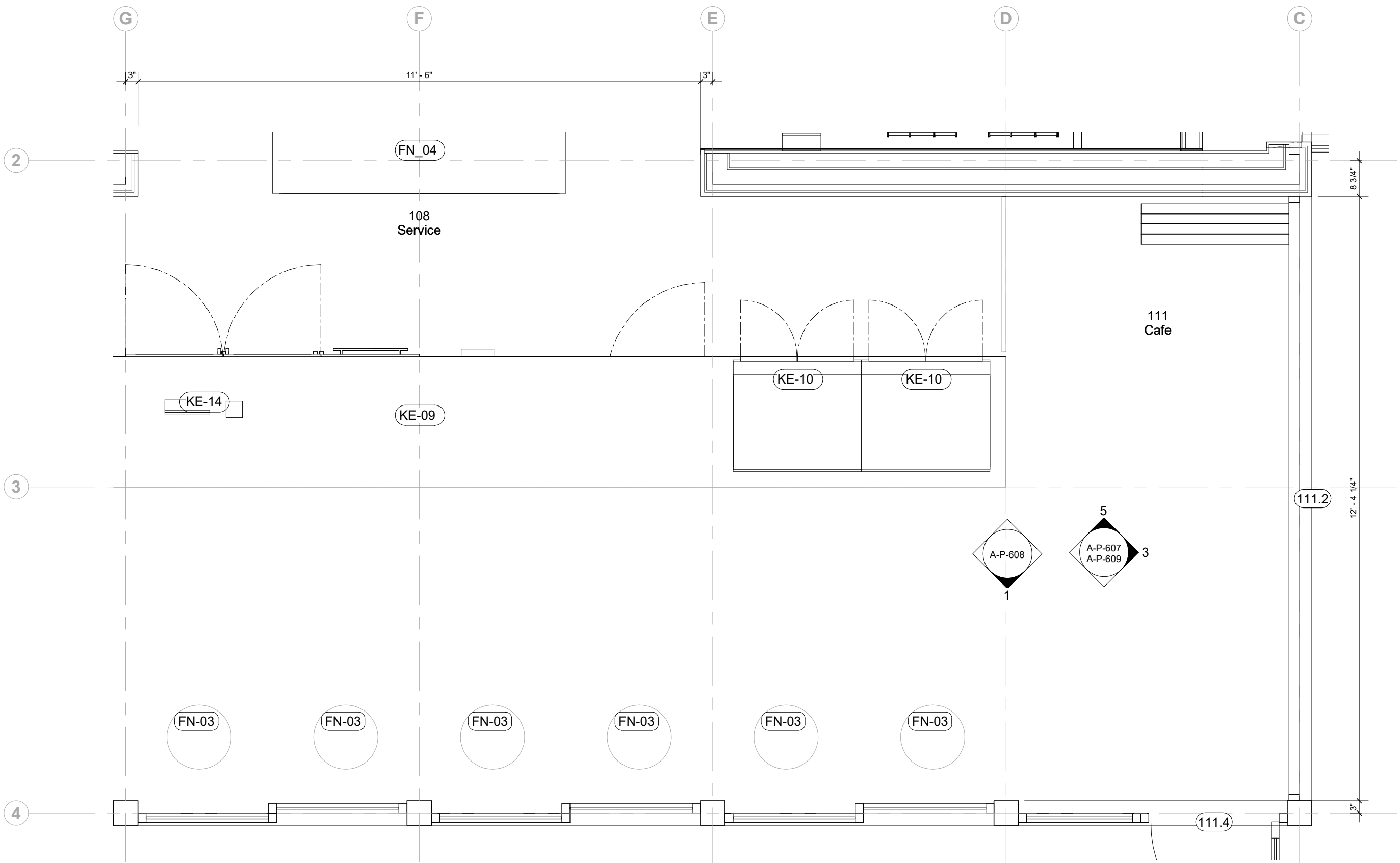
Project

Storm King Art Center Pond Pavilion

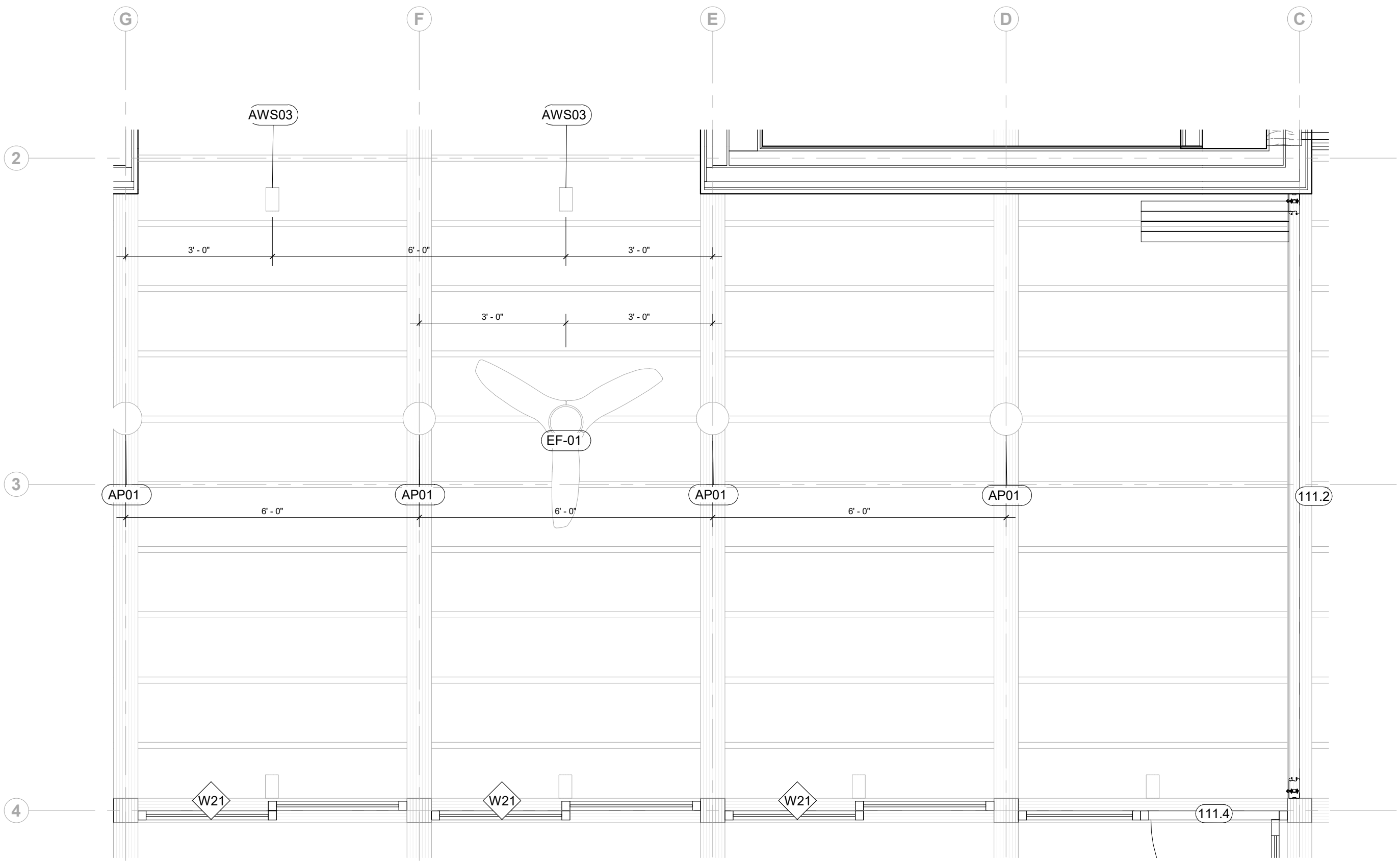
Seal

NOT FOR CONSTRUCTION
Drawing Title
**Room Plans &
Elevations -111**

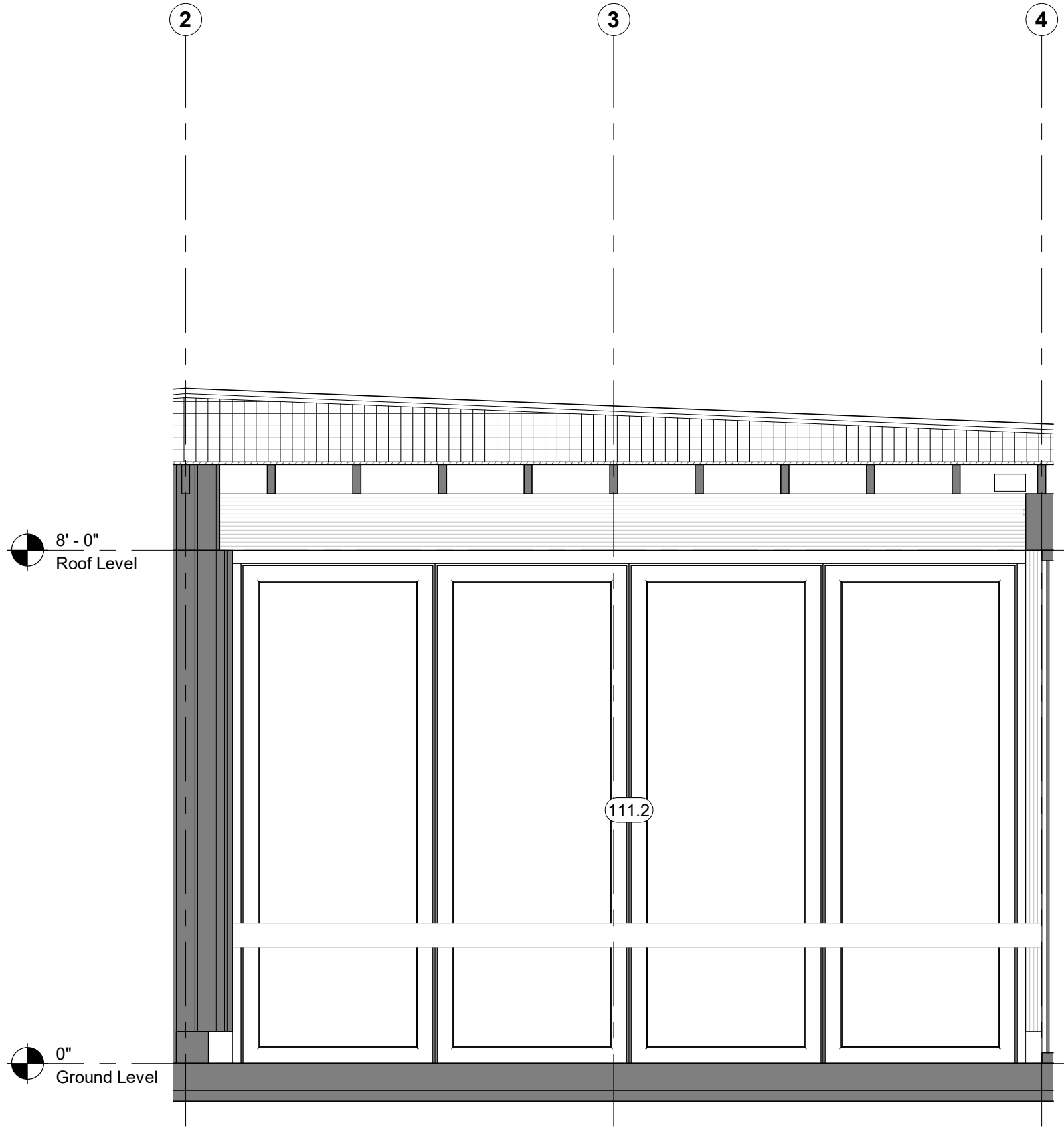
Date	11/06/20
Scale	1/2" = 1'-0"
Drawing Number	A-P-607
Sheet Size	ARCH D



1 Room Plan - Cafe North
1/2" = 1'-0"



2 Room RCP - Cafe North
1/2" = 1'-0"



3 Room Elevation - Cafe North - North
1/2" = 1'-0"

Keynote Legend	
Keynote	Description

- Owner**
Storm King Art Center
1 Museum Road
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+1 (845) 534-3115
- Design Architect**
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- Reed Hilderbrand LLC**
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- Facade**
Front Inc.
100 E. Broadway Street, #501
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+1 (212) 242-2220

Key Plan



Description	Date
50% Construction Documents	11/06/20

Project

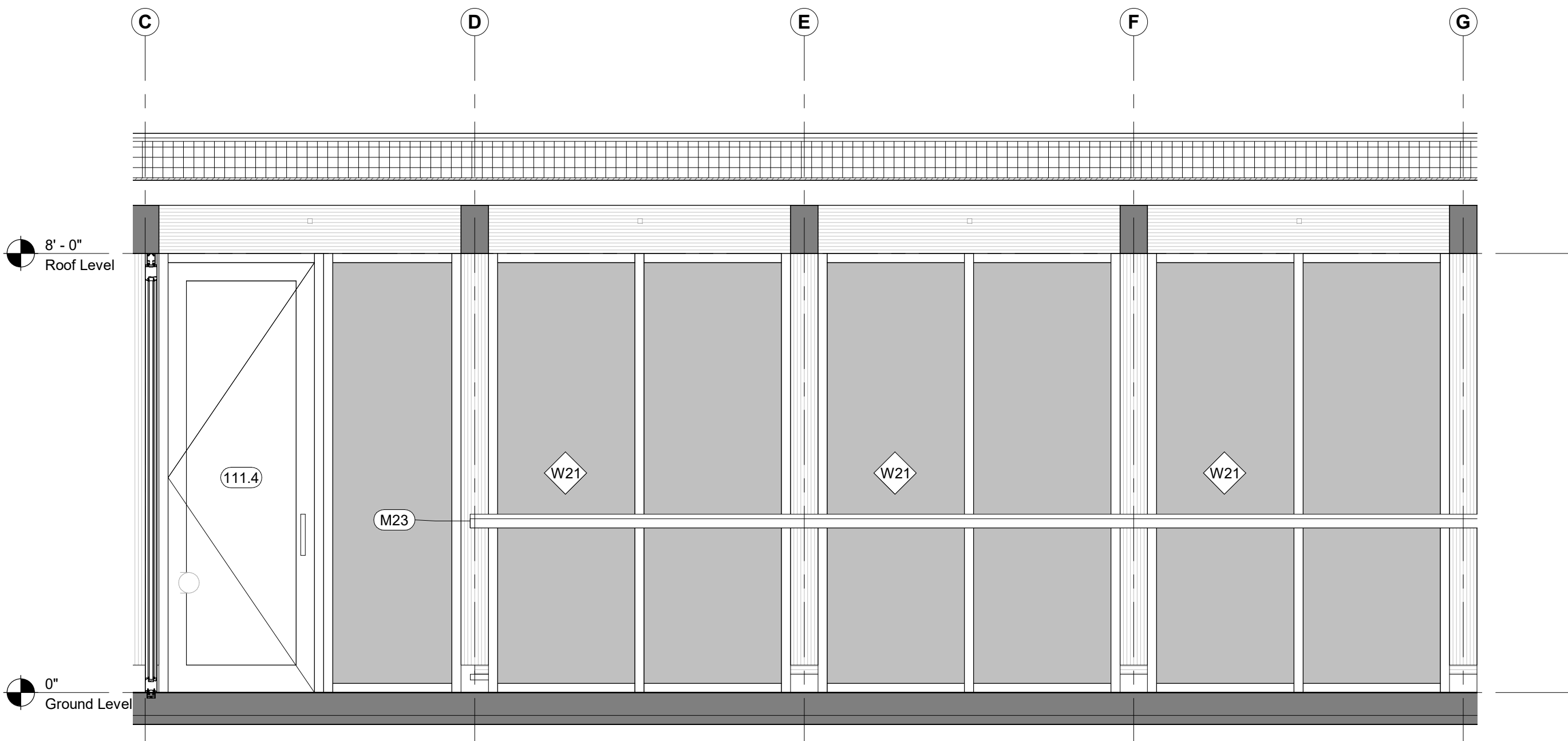
Storm King
Art Center
Pond Pavilion

Seal

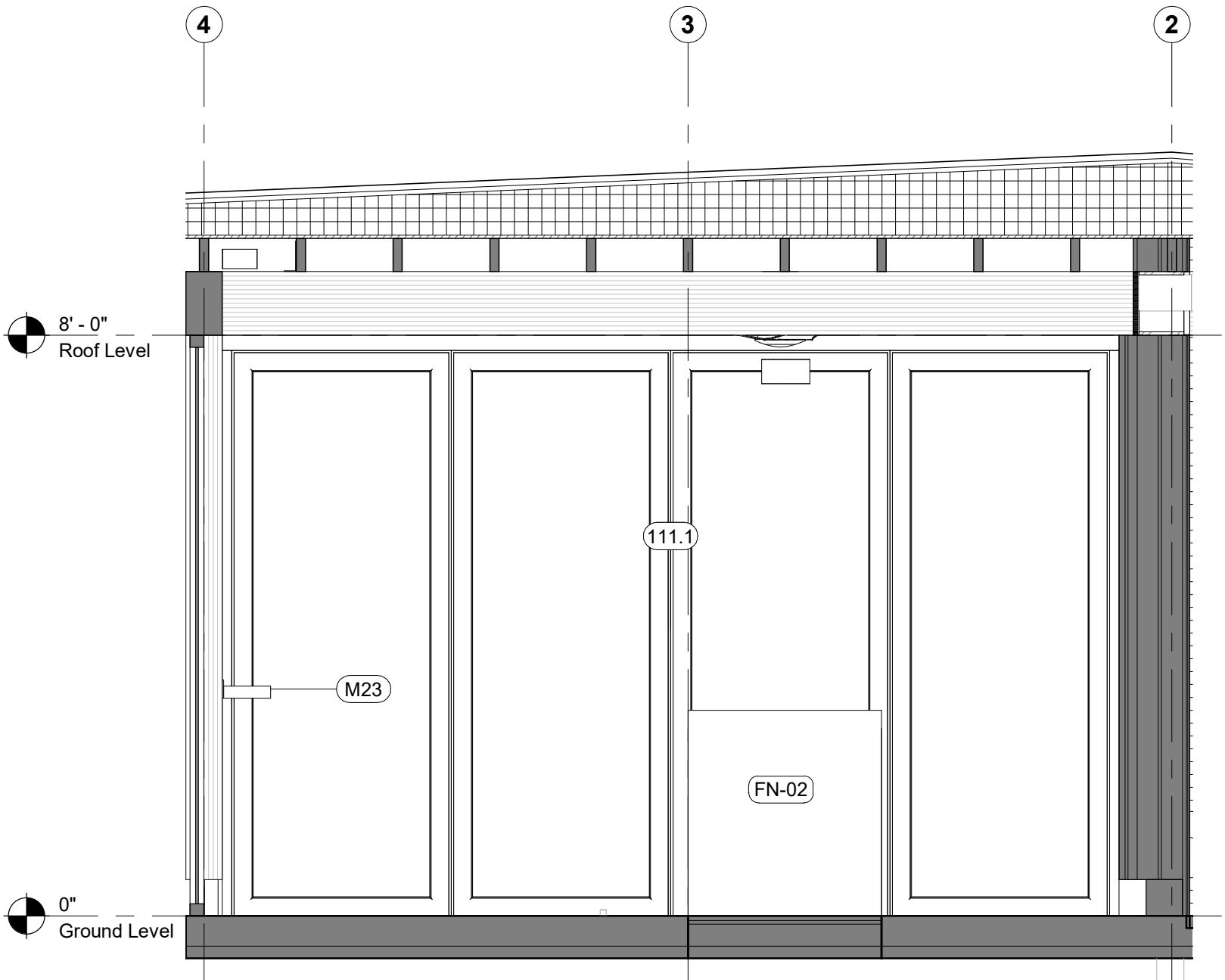
NOT FOR CONSTRUCTION

Drawing Title
Room Elevations
-111

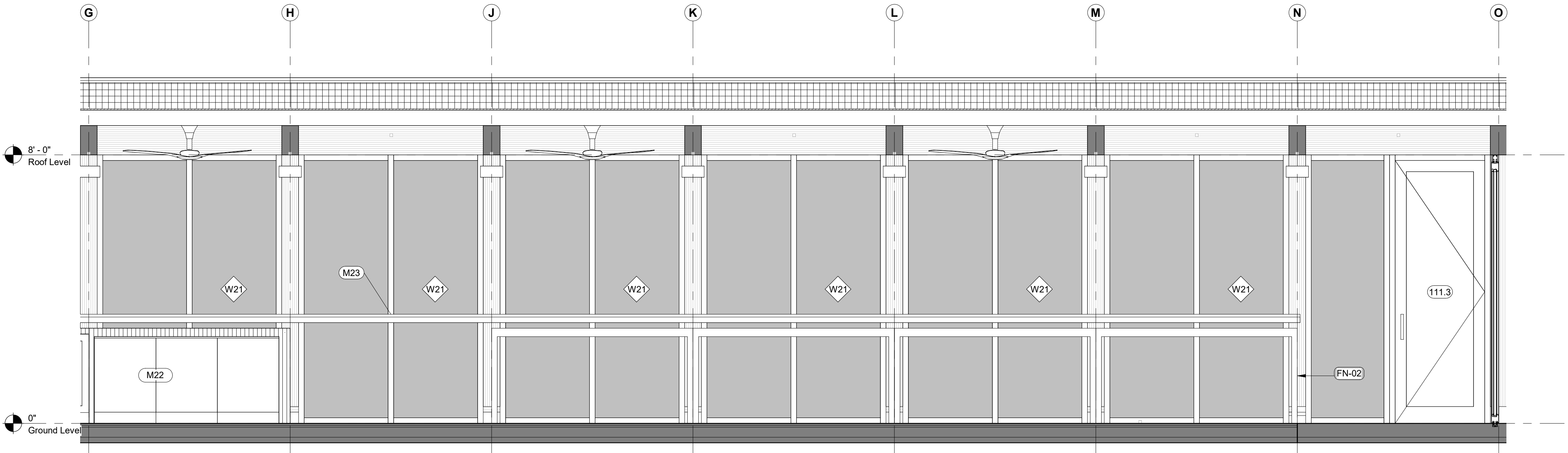
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Sheet Size	ARCH D



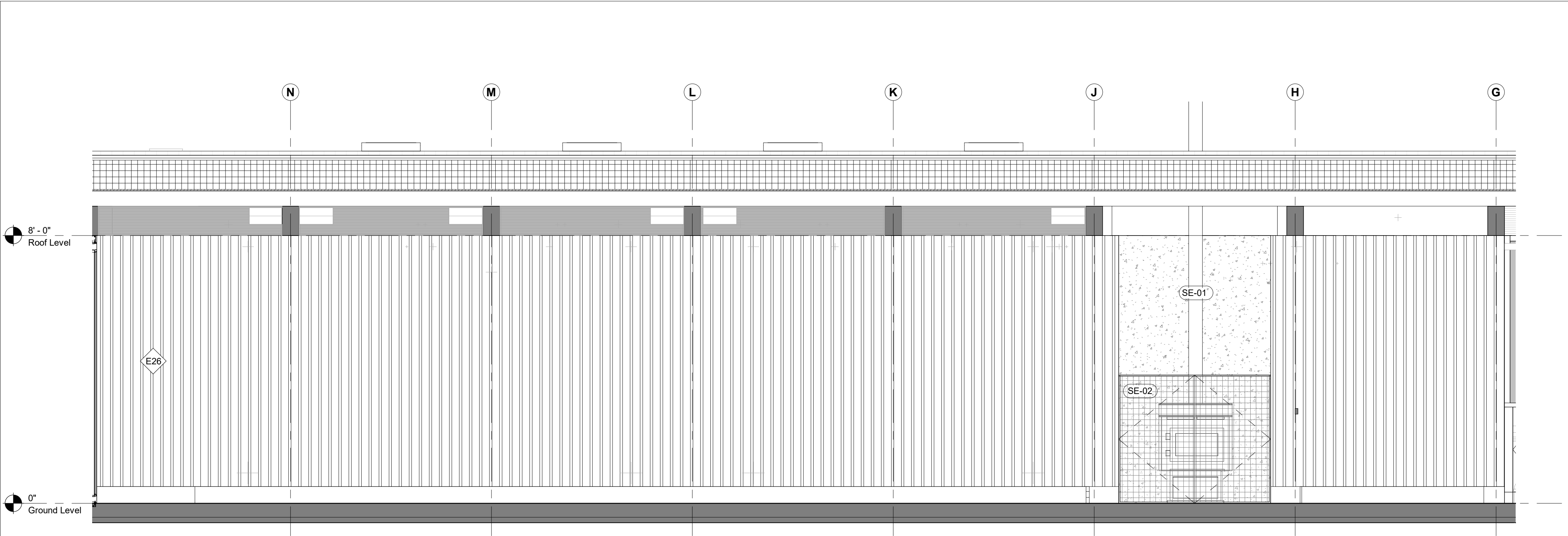
1 Room Elevation - Cafe North - East
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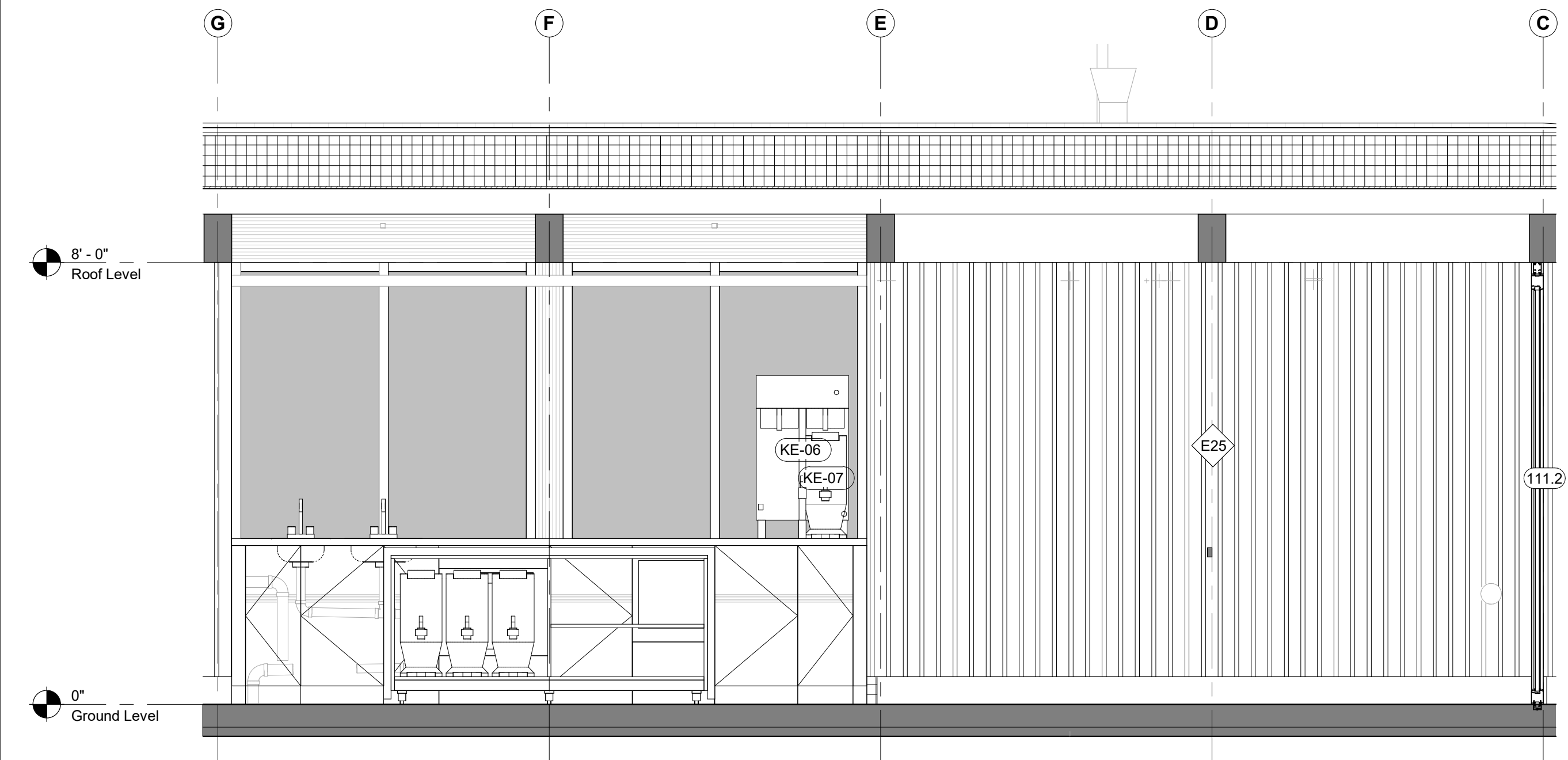
3 Room Elevation - Cafe South - South
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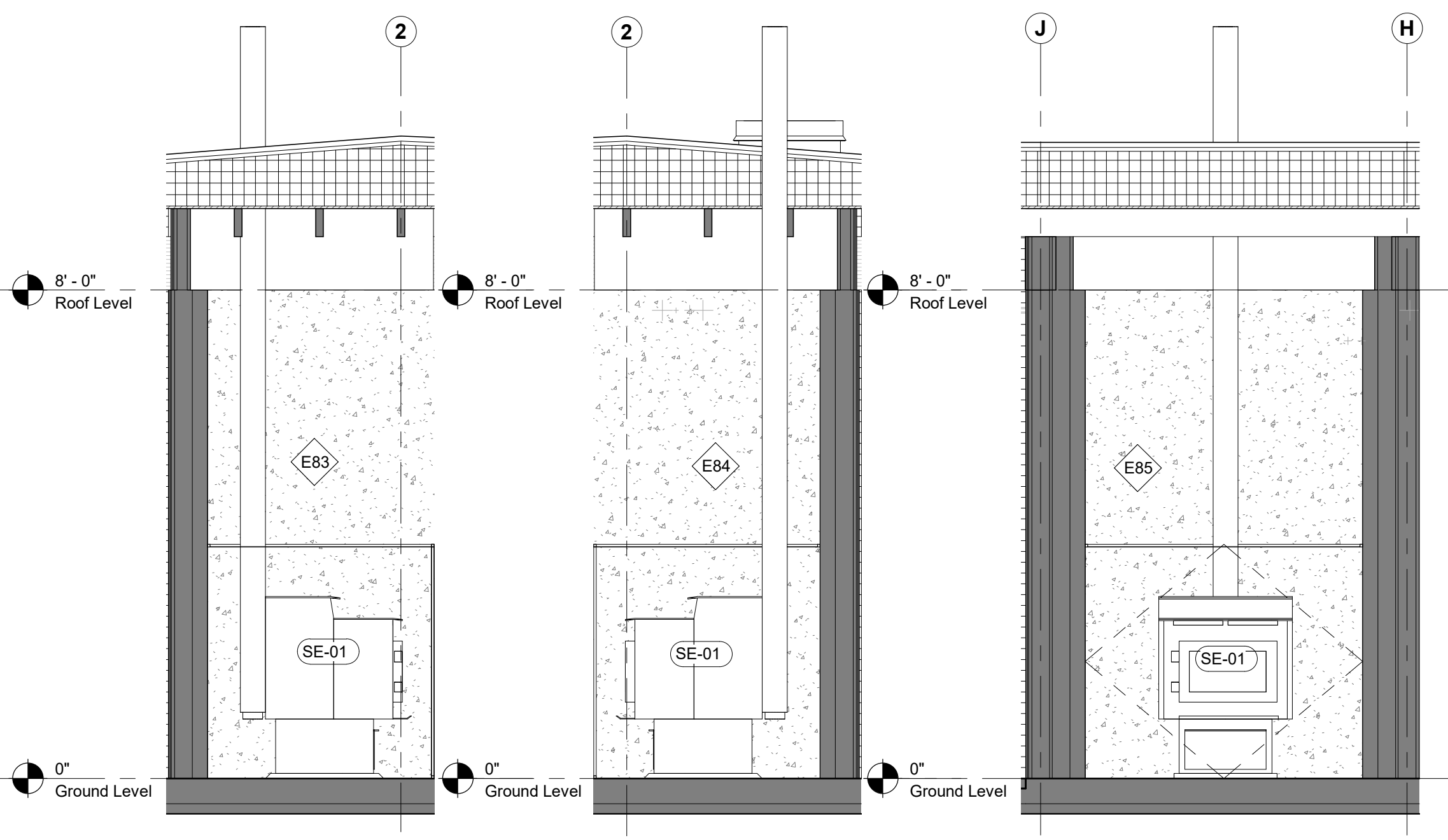
2 Room Elevation - Cafe South - East
1/2" = 1'-0"



1 Room Elevation - Cafe South - West
1/2" = 1'-0"



5 Room Elevation - Cafe North - West
1/2" = 1'-0"



2 Room Elevation - Cafe Stove - North
1/2" = 1'-0"

3 Room Elevation - Cafe Stove - South
1/2" = 1'-0"

4 Room Elevation - Cafe Stove - West
1/2" = 1'-0"

Keynote Legend

Keynote Description

Owner

Storm King Art Center
1 Museum Road
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Design Architect

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+1 (518) 389-3606

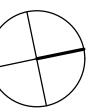
AV & Acoustics

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76 Beaver Street, 2nd Floor
New York, NY 10005
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Facade

Front Inc.
100 E. Broadway Street, #501
New York, NY 10002
+1 (212) 242-2220

Key Plan



Description

50% Construction Documents

Date

11/06/20

Project

Storm King
Art Center
Pond Pavilion

Seal

NOT FOR CONSTRUCTION

Drawing Title

Room Elevations -
111

Date 11/06/20

Scale 1/2" = 1'-0"

Drawing
Number A-P-609

Sheet Size ARCH D

Keynote Legend	
Keynote	Description
05-40-00	Cold-Formed Metal Framing

Owner Storm King Art Center 1 Museum Road New Windsor, NY 12553 +1 (845) 534-3115
Design Architect heneghan peng architects 14-16 Lord Edward Street Dublin, D02 YC63 +353 1 633 9000
Executive Architect WXY Architecture + Urban Design 224 Centre Street, 5th Floor New York, NY 10013 +1 (212) 219-1953
Landscape Architect Gustafson Porter + Bowman 1 Cobham Mews London, MW1 9SB +44 020 7284 8950
Reed Hilderbrand LLC 33 Whitney Avenue, 3rd Floor New Haven, CT 06510 +1 (617) 923-2422
Structural & Lighting ARUP 77 Water Street New York, NY 10005 +1 (212) 896-3000
MEPF & IT BuroHappold 100 Broadway #23 New York, NY 10005 +1 (212) 616-0228
Civil VHB 100 Great Oaks Blvd., Suite 118 Albany, NY 12203 +1 (518) 389-3606
AV & Acoustics LSTN Consultants 76 Beaver Street, 2nd Floor New York, NY 10005 +1 (347) 788-0810
Facade Front Inc. 100 E. Broadway Street, #501 New York, NY 10002 +1 (212) 242-2220
Key Plan

Description	Date
50% Construction Documents	11/06/20

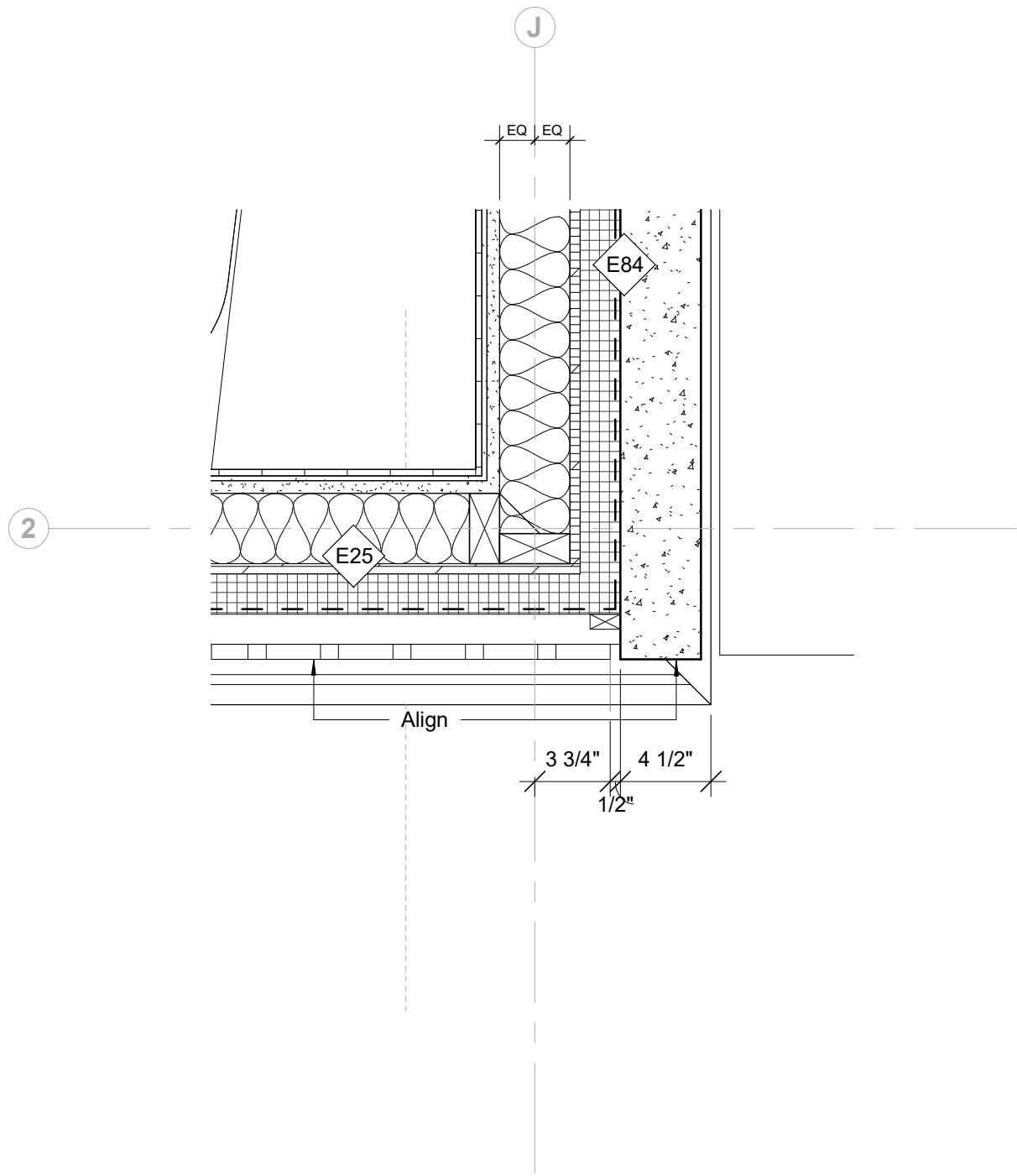
Project

Storm King Art Center Pond Pavilion

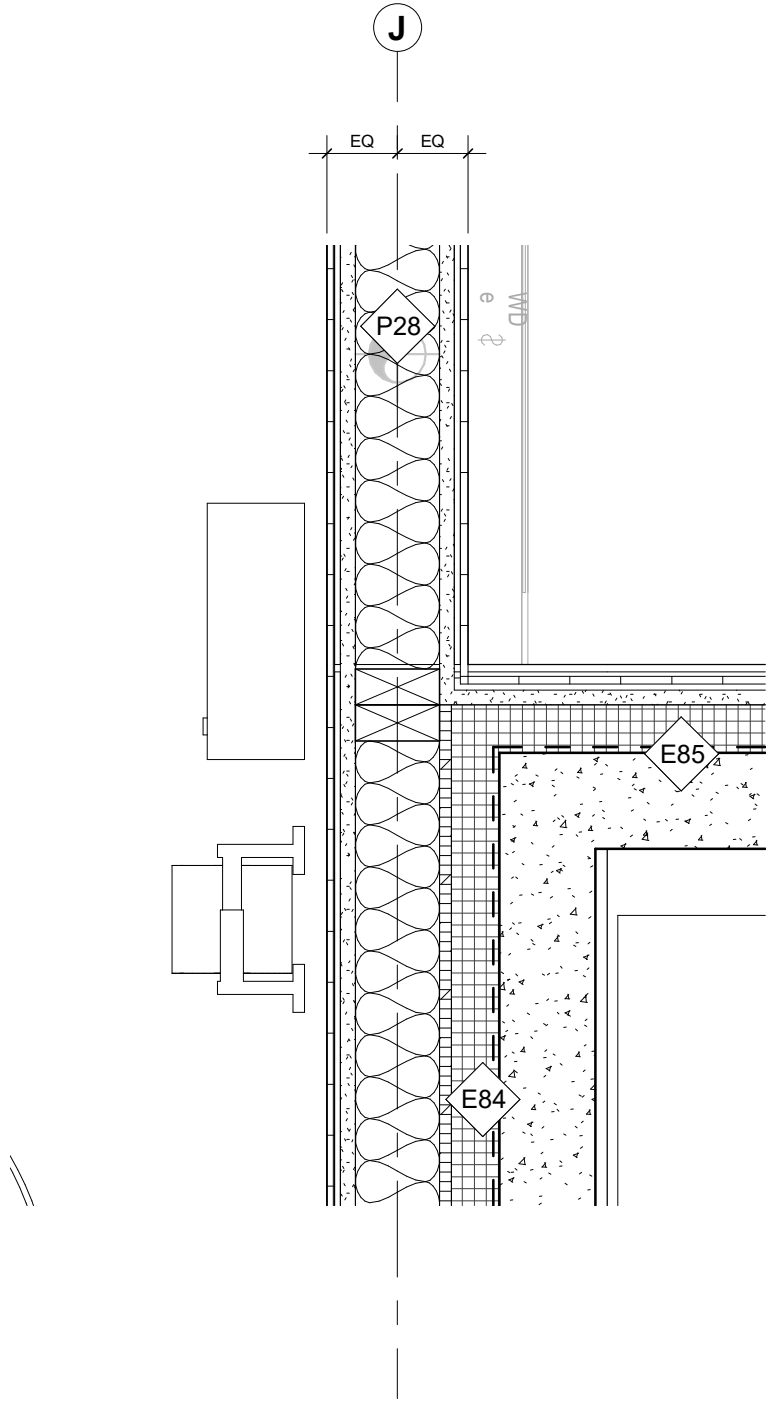
Seal

NOT FOR CONSTRUCTION
Drawing Title
Interior Details

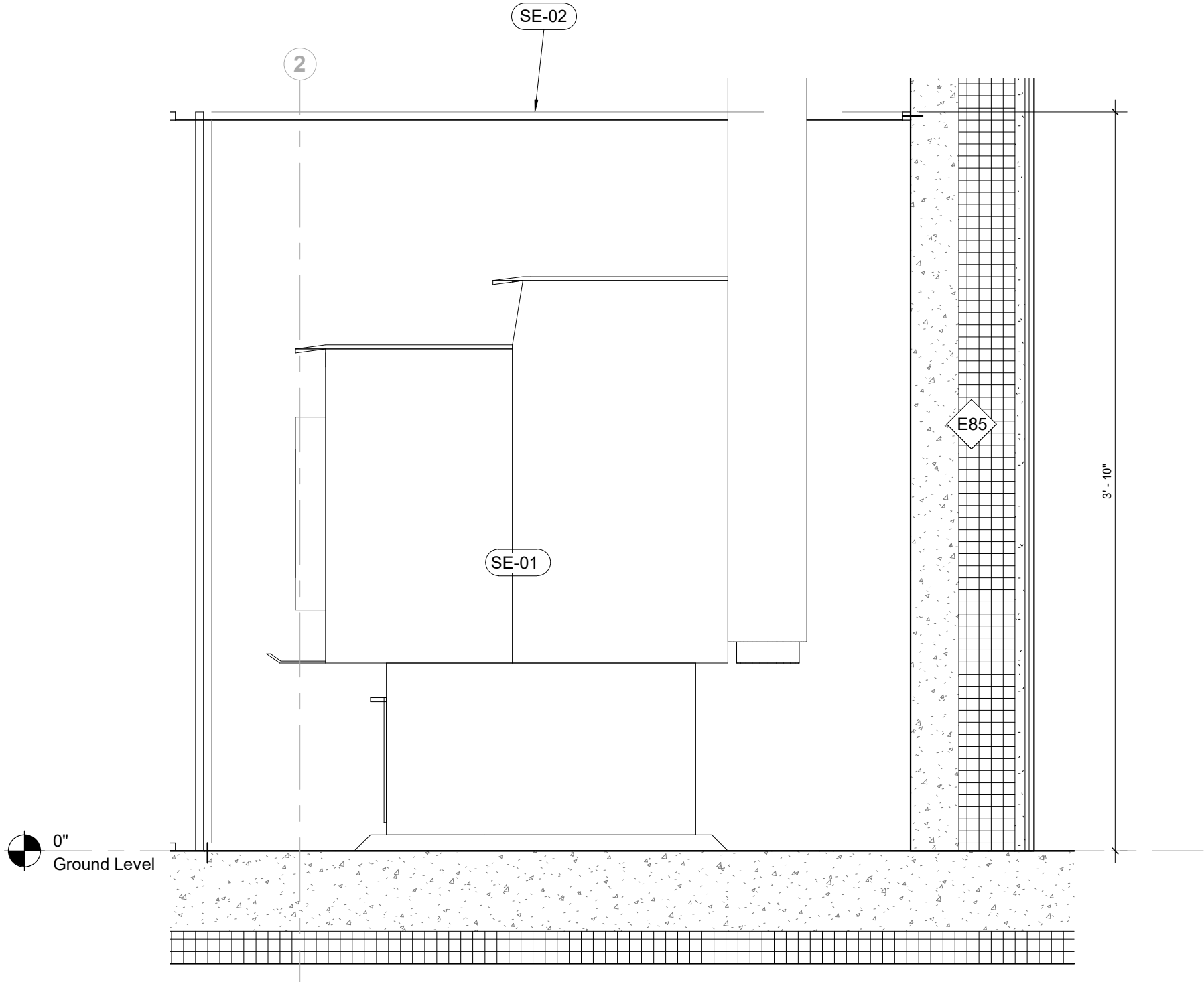
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Drawing Number	A-P-611
Sheet Size	ARCH D



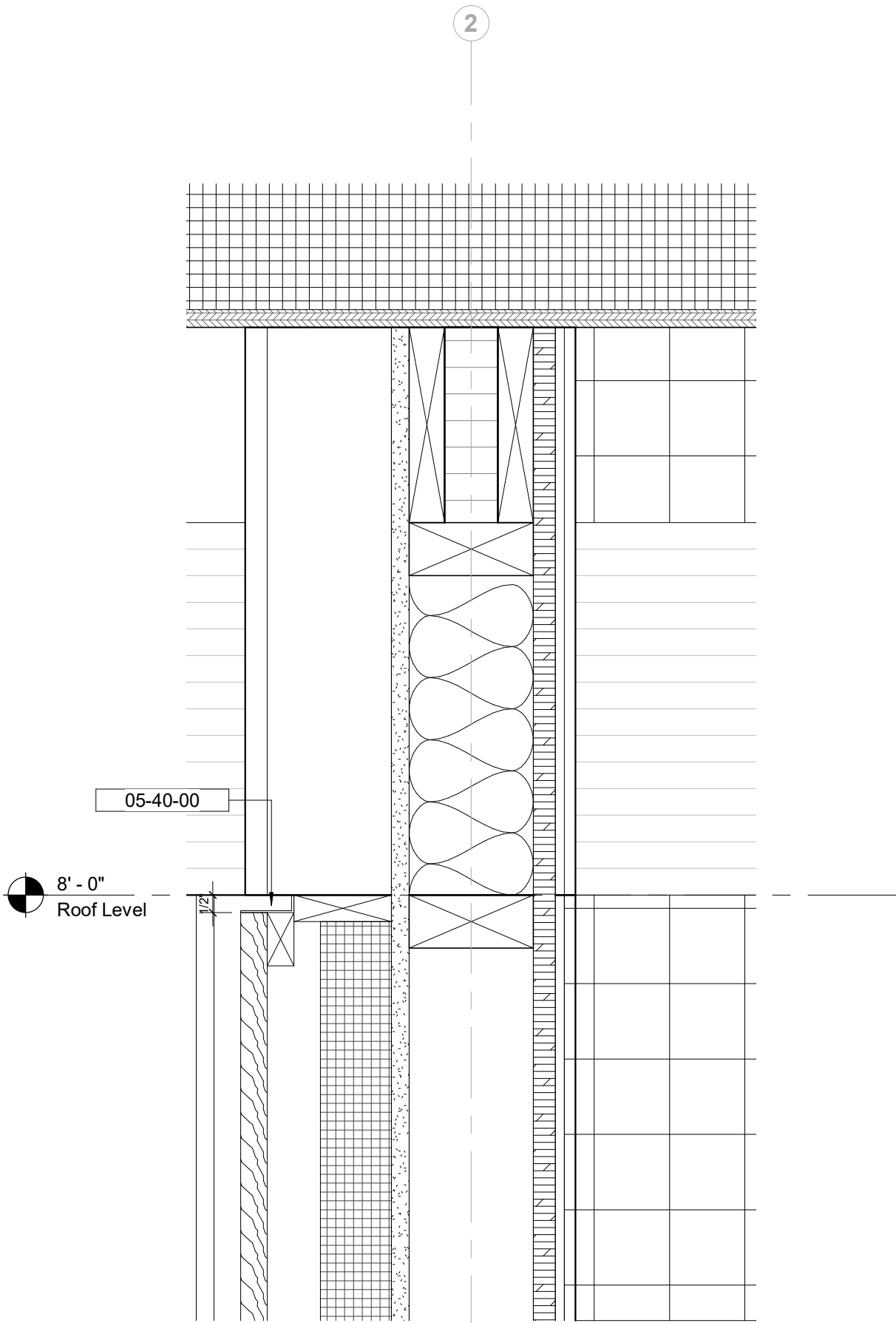
1 Pallet Stove Wall Detail
1 1/2" = 1'-0"



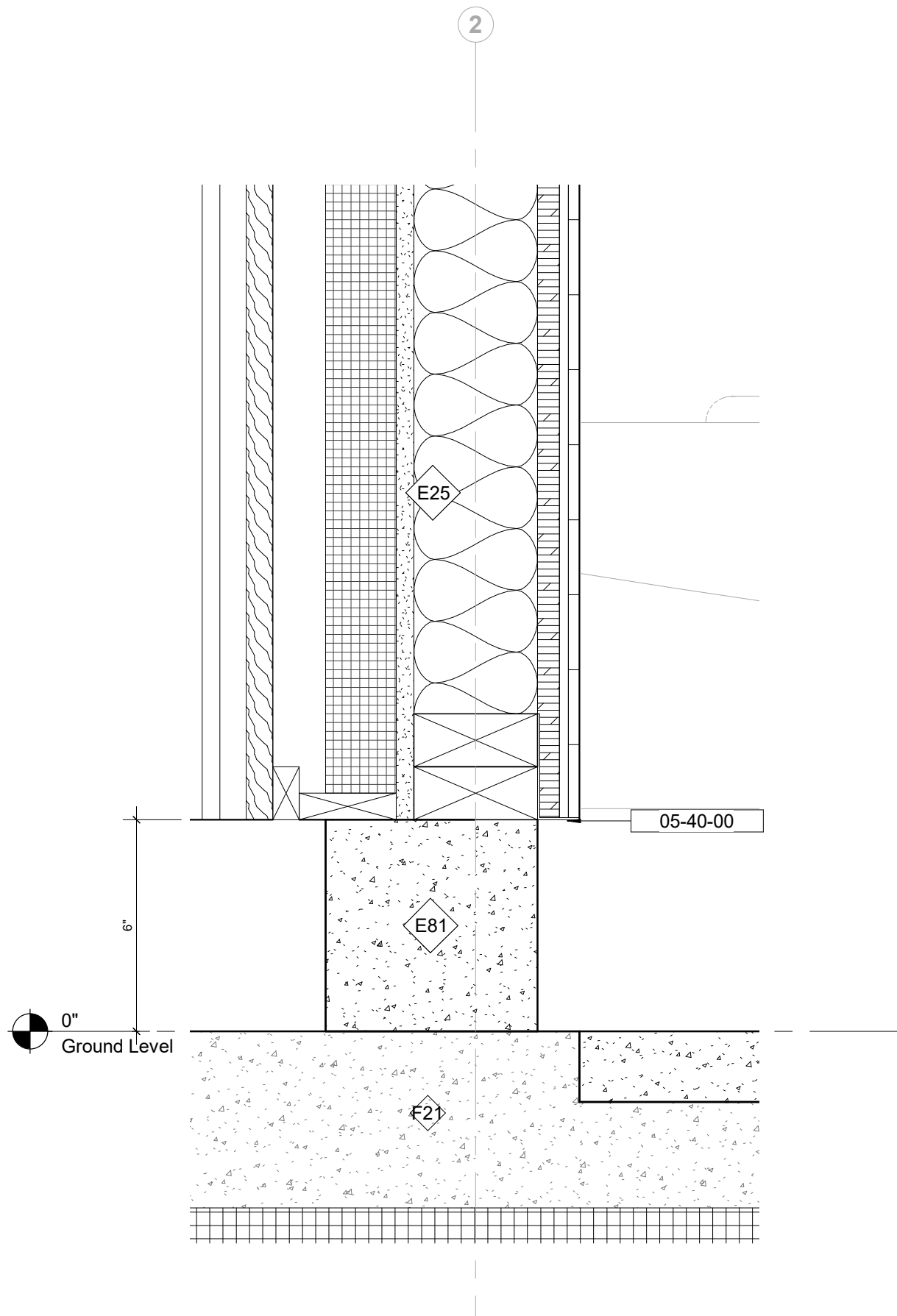
2 Paalet Stove Back Wall Detail
1 1/2" = 1'-0"



3 Pallet Stove Fireguard Section
1 1/2" = 1'-0"



4 Interior Wall Head Detail
3" = 1'-0"



5 Interior Wall Base Detail
3" = 1'-0"

Keynote Legend	
Keynote	Description

Owner
Storm King Art Center
1 Museum Road
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Design Architect
heneghan peng architects
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+1 (212) 242-2220

Key Plan

Description	Date
50% Construction Documents	11/06/20

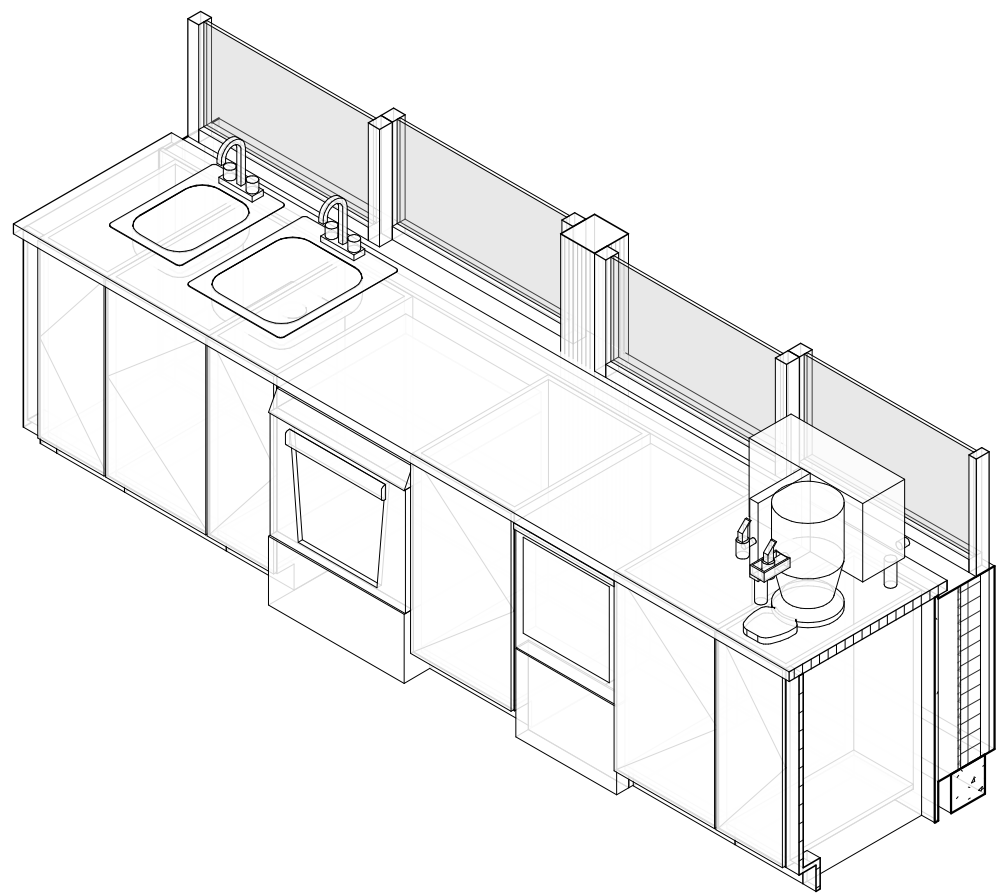
Project
Storm King
Art Center
Pond Pavilion

Seal

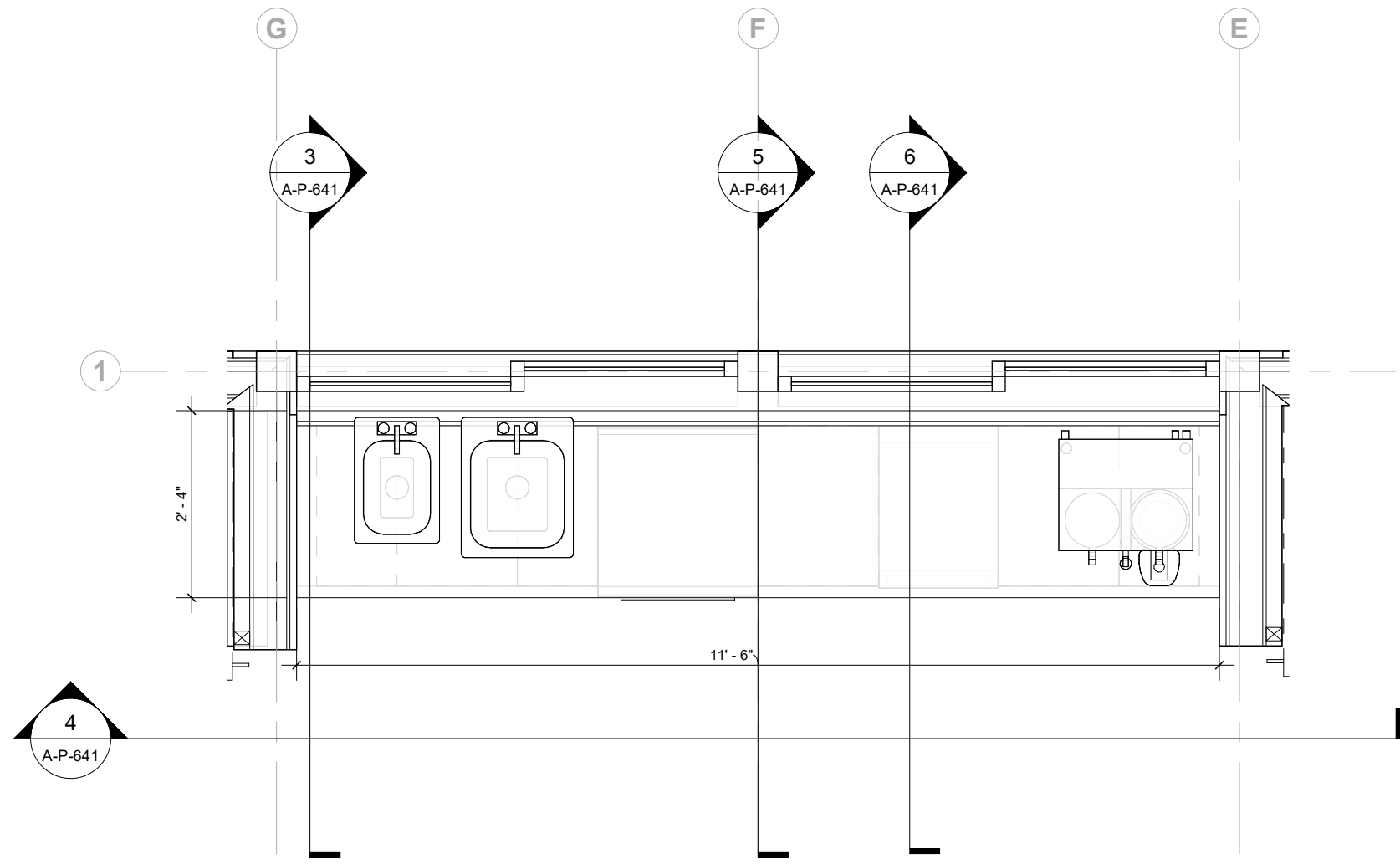
NOT FOR CONSTRUCTION

Drawing Title
Door Details - Interior

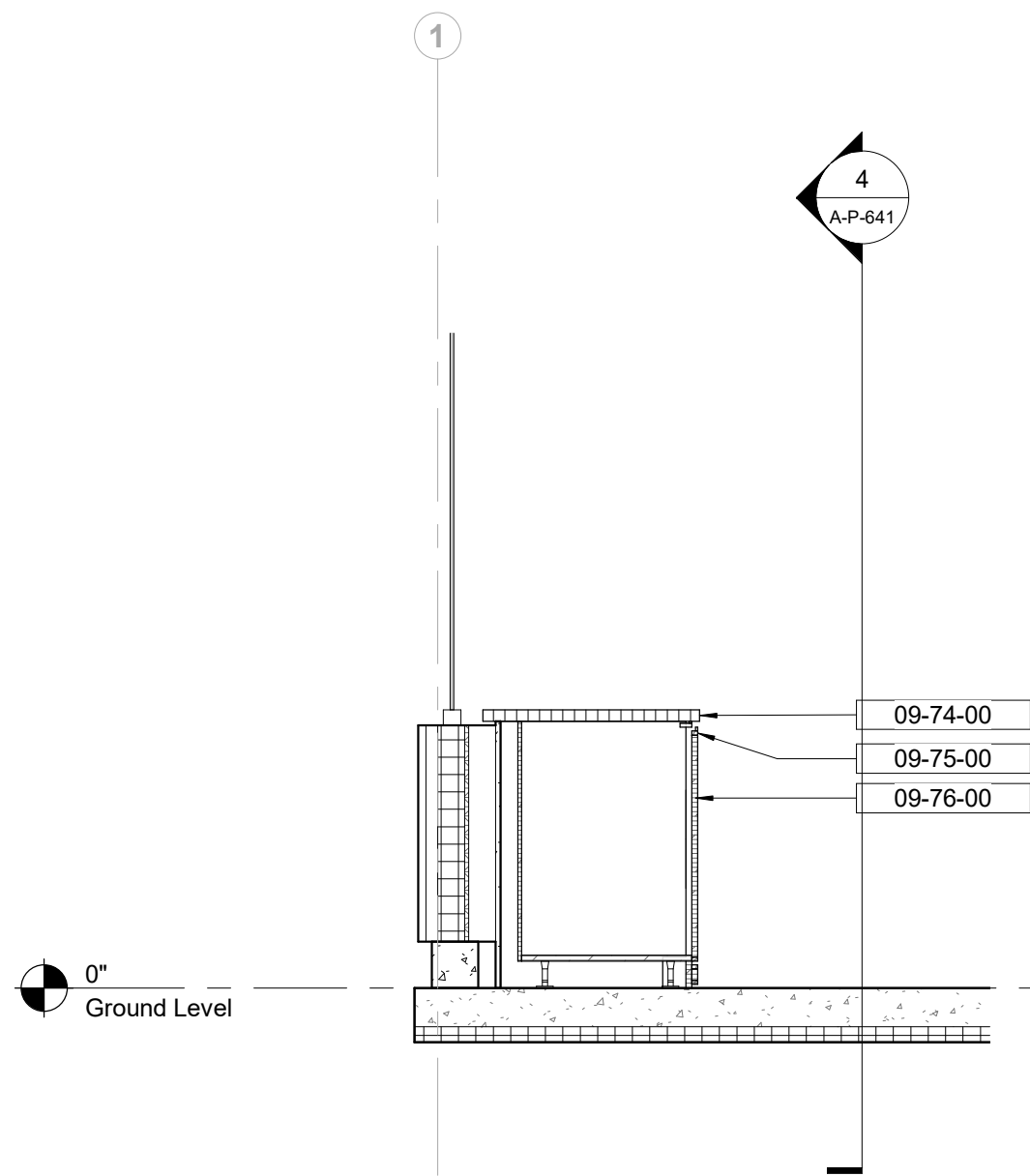
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Drawing Number	A-P-621
Sheet Size	ARCH D



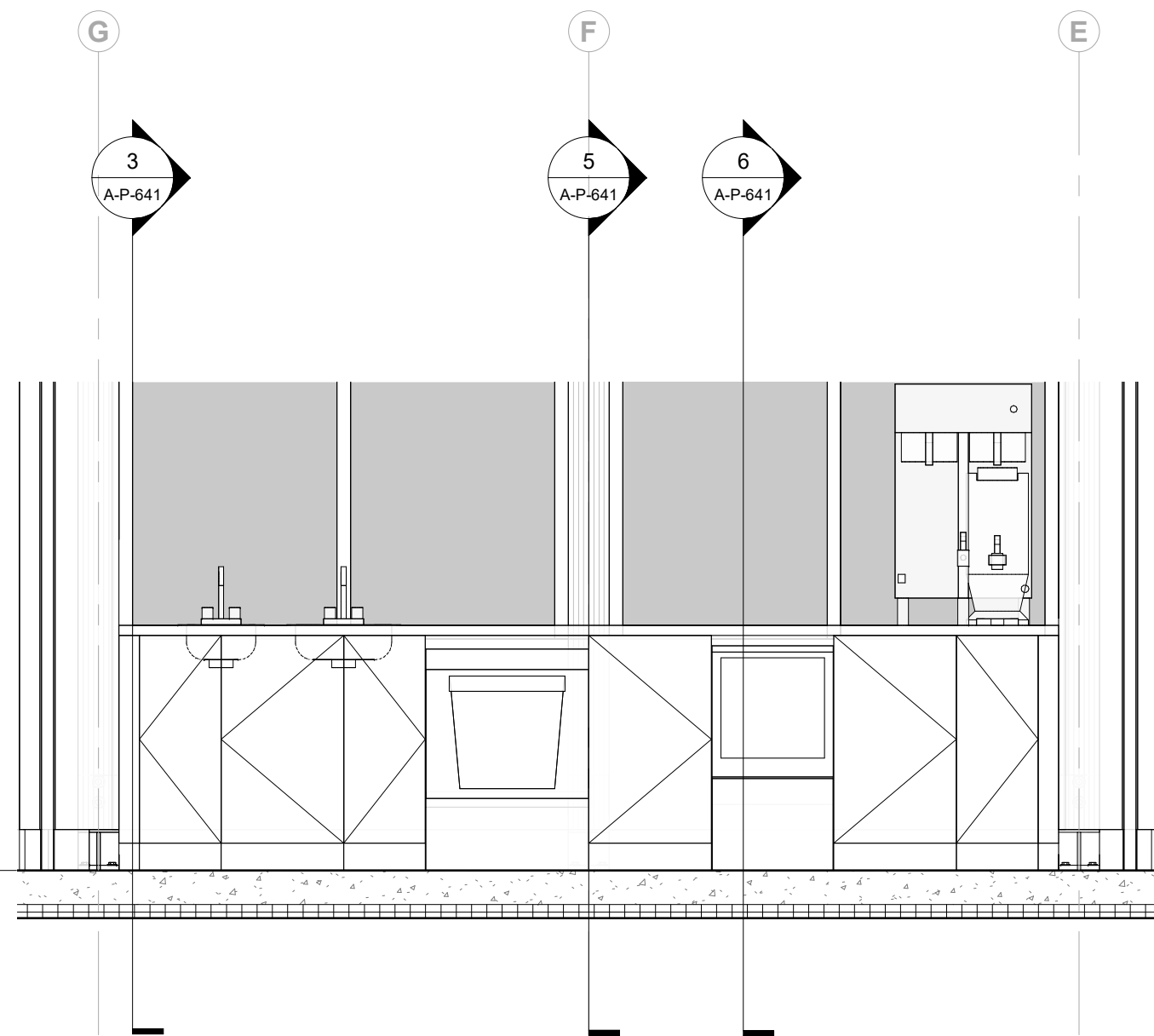
1 BOH Service Counter



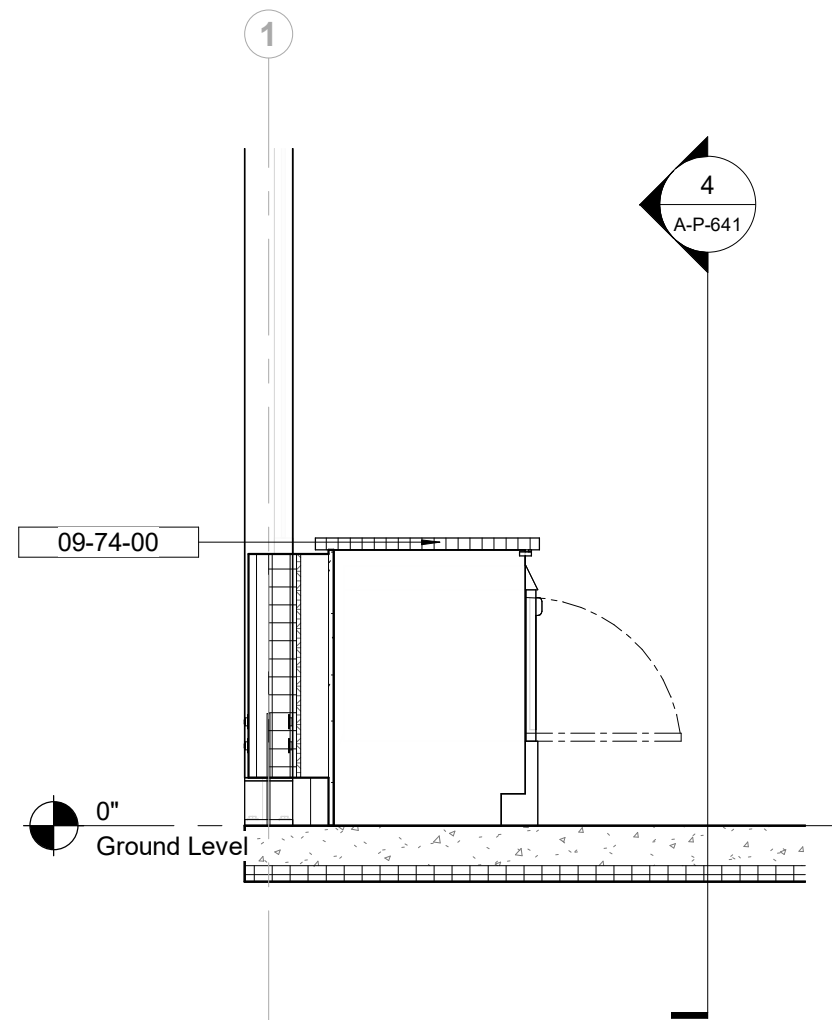
2 BOH Service Counter Plan
1/2" = 1'-0"



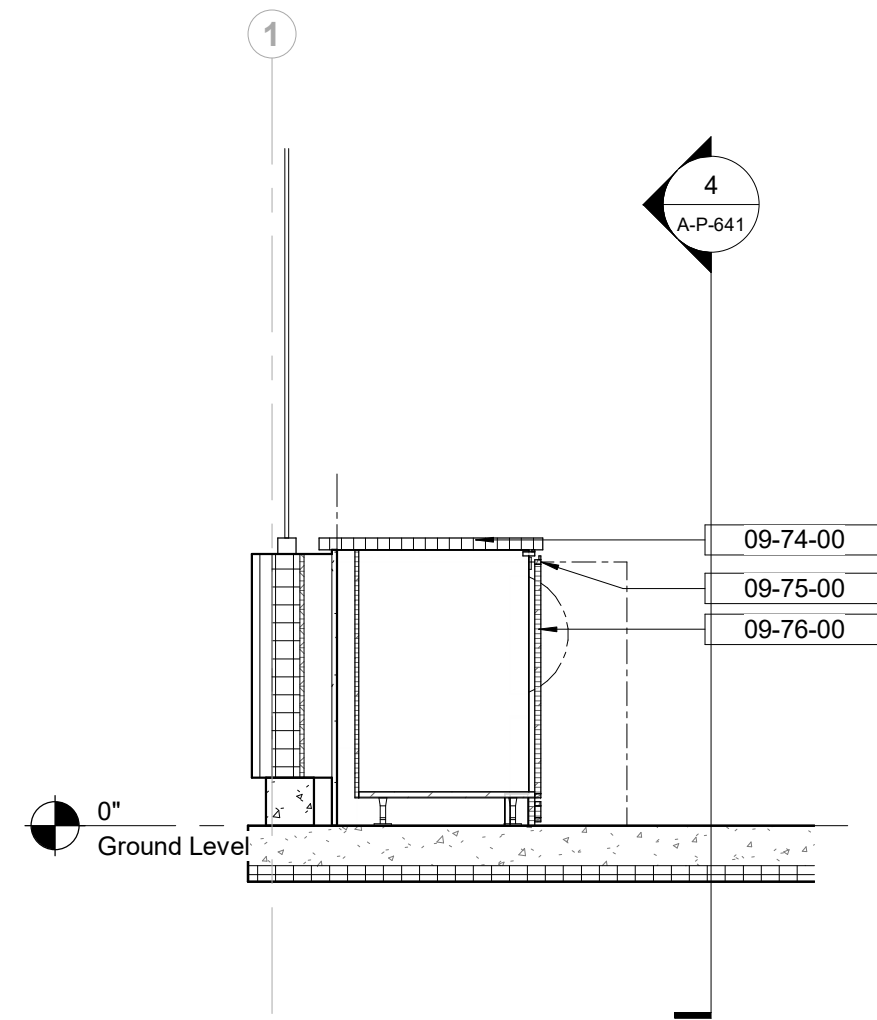
3 BOH Service Counter Section at False Panel
1/2" = 1'-0"



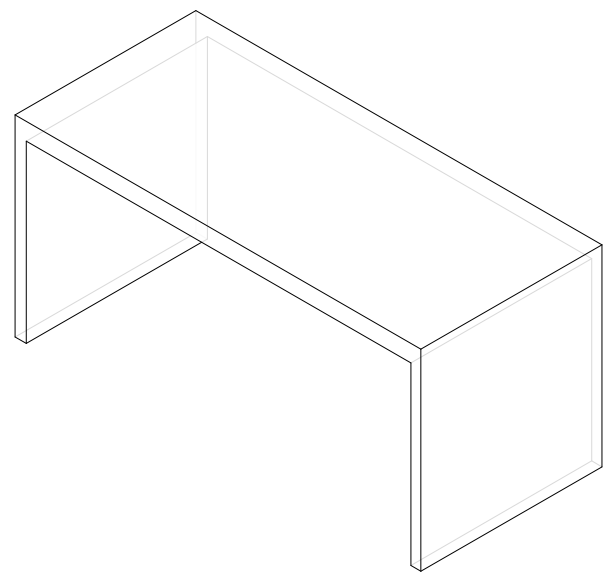
4 BOH Service Counter Elevation
1/2" = 1'-0"



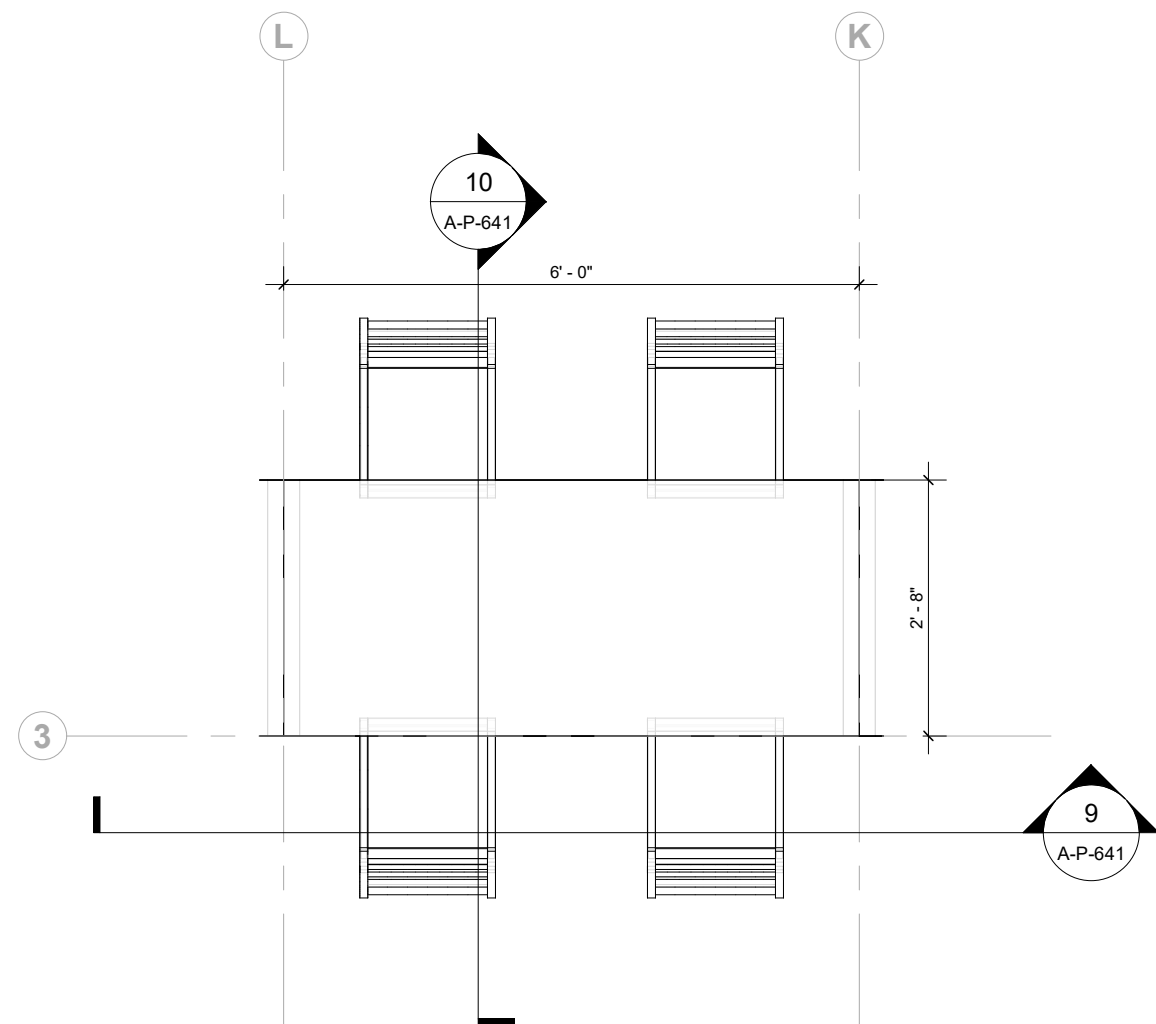
5 BOH Service Counter Section at Column
1/2" = 1'-0"



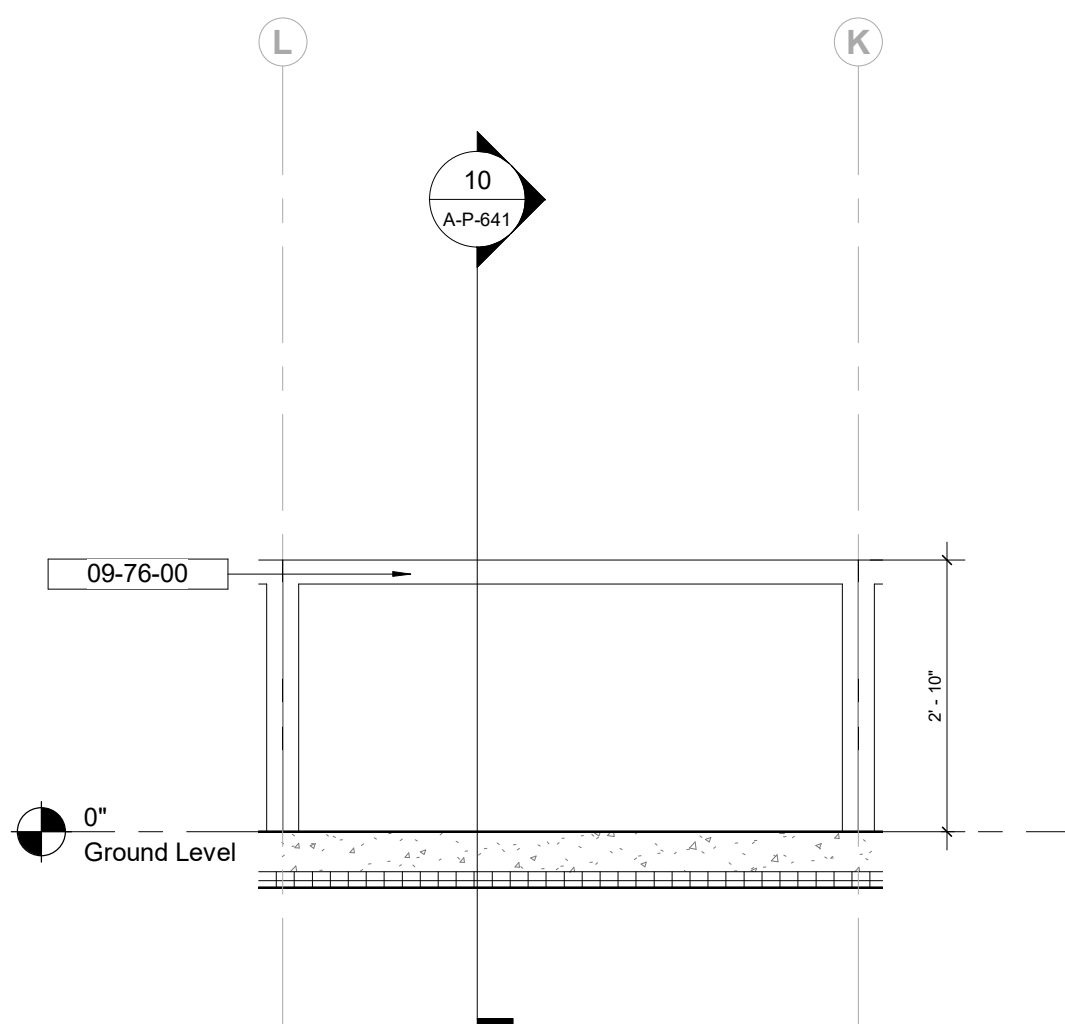
6 BOH Service Counter Section at Cabinet Door
1/2" = 1'-0"



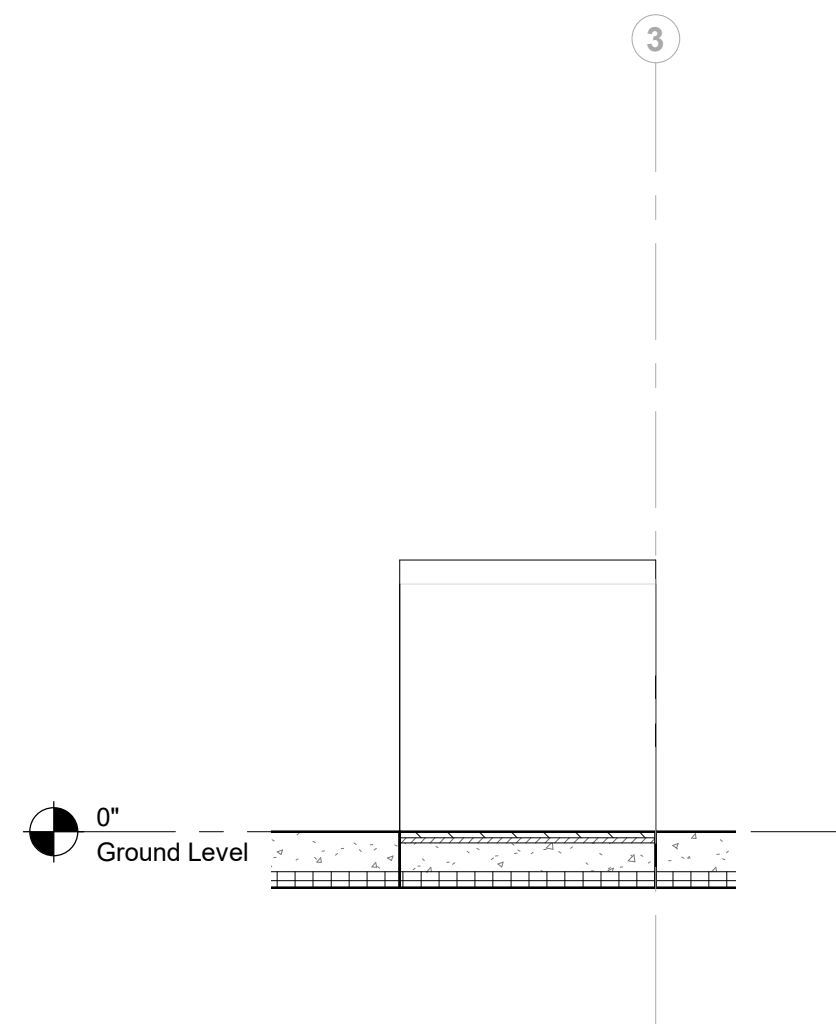
7 Dining Table



8 Dining Table Plan
1/2" = 1'-0"



9 Dining Table Elevation
1/2" = 1'-0"



10 Dining Table Section
1/2" = 1'-0"

Keynote Legend	
Keynote	Description
09-74-00	Solid Surface
09-75-00	Hardwood Edge
09-76-00	White Oak Veneered Casework

Owner
Storm King Art Center
1 Museum Road
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Key Plan

Description	Date
50% Construction Documents	11/06/20

Project

Storm King Art Center Pond Pavilion

Seal

NOT FOR CONSTRUCTION

Drawing Title
Millwork Details

Date	11/06/20
Scale	1/2" = 1'-0"
Drawing Number	A-P-641
Sheet Size	ARCH D

Keynote Legend	
Keynote	Description
09-74-00	Solid Surface
09-76-00	White Oak Veneered Casework

Owner Storm King Art Center 1 Museum Road New Windsor, NY 12553 +1 (845) 534-3115
Design Architect heneghan peng architects 14-16 Lord Edward Street Dublin, D02 YC63 +353 1 633 9000
Executive Architect WXY Architecture + Urban Design 224 Centre Street, 5th Floor New York, NY 10013 +1 (212) 219-1953
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MEPF & IT BuroHappold 100 Broadway #23 New York, NY 10005 +1 (212) 616-0228
Civil VHB 100 Great Oaks Blvd., Suite 118 Albany, NY 12203 +1 (518) 389-3606
AV & Acoustics LSTN Consultants 76 Beaver Street, 2nd Floor New York, NY 10005 +1 (347) 788-0810
Facade Front Inc. 100 E. Broadway Street, #501 New York, NY 10002 +1 (212) 242-2220
Key Plan

Description	Date
50% Construction Documents	11/06/20

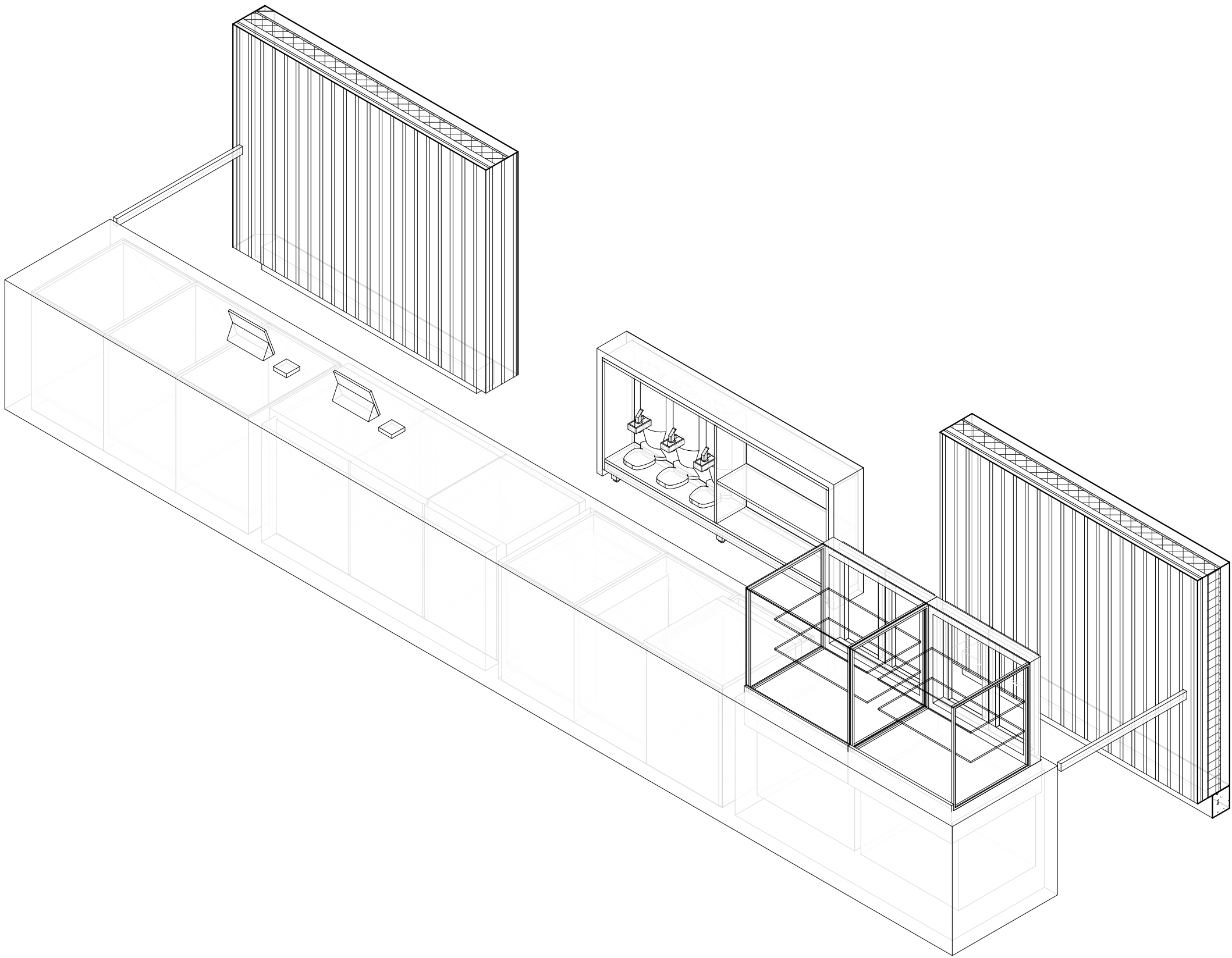
Project

Storm King Art Center Pond Pavilion

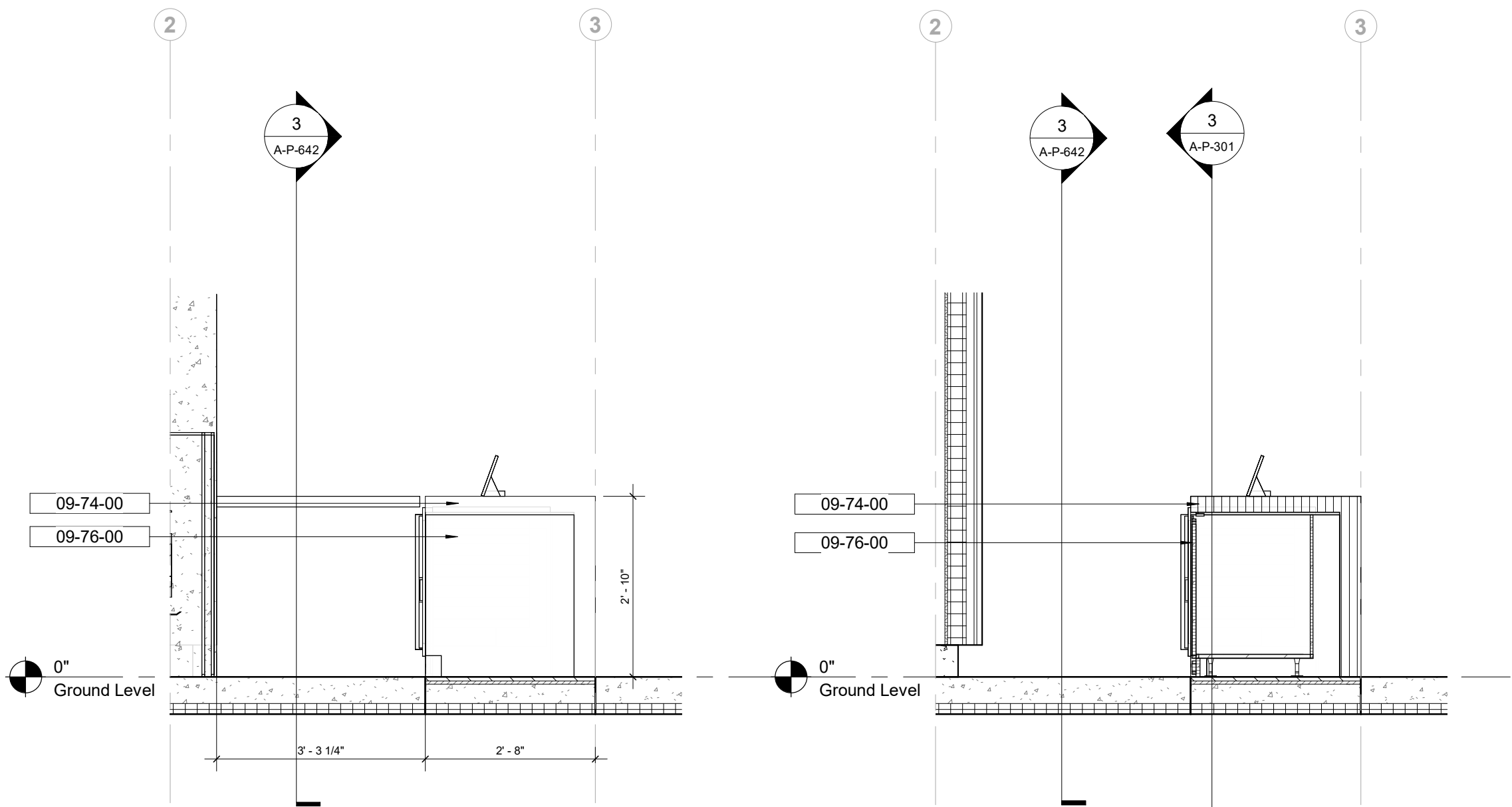
Seal

NOT FOR CONSTRUCTION
Drawing Title
Millwork Details

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Drawing Number	A-P-642
Sheet Size	ARCH D

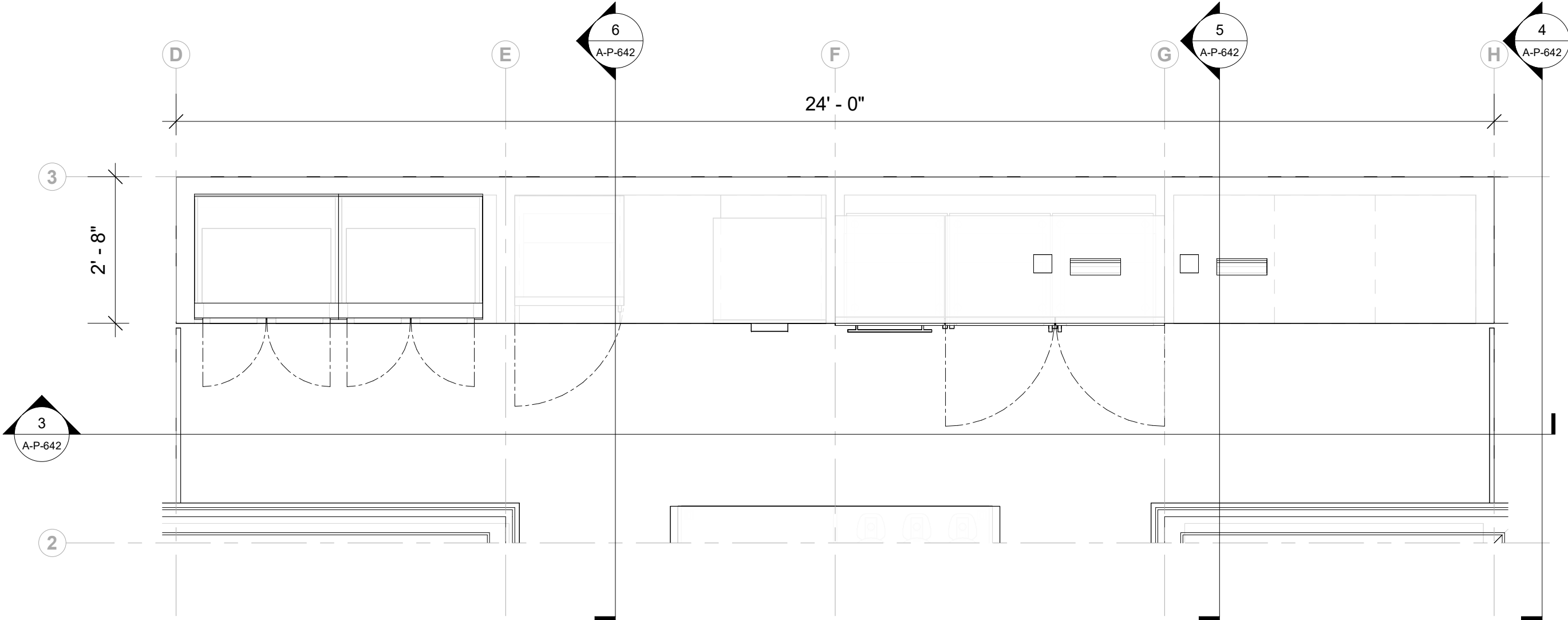


1 FOH Service Counter

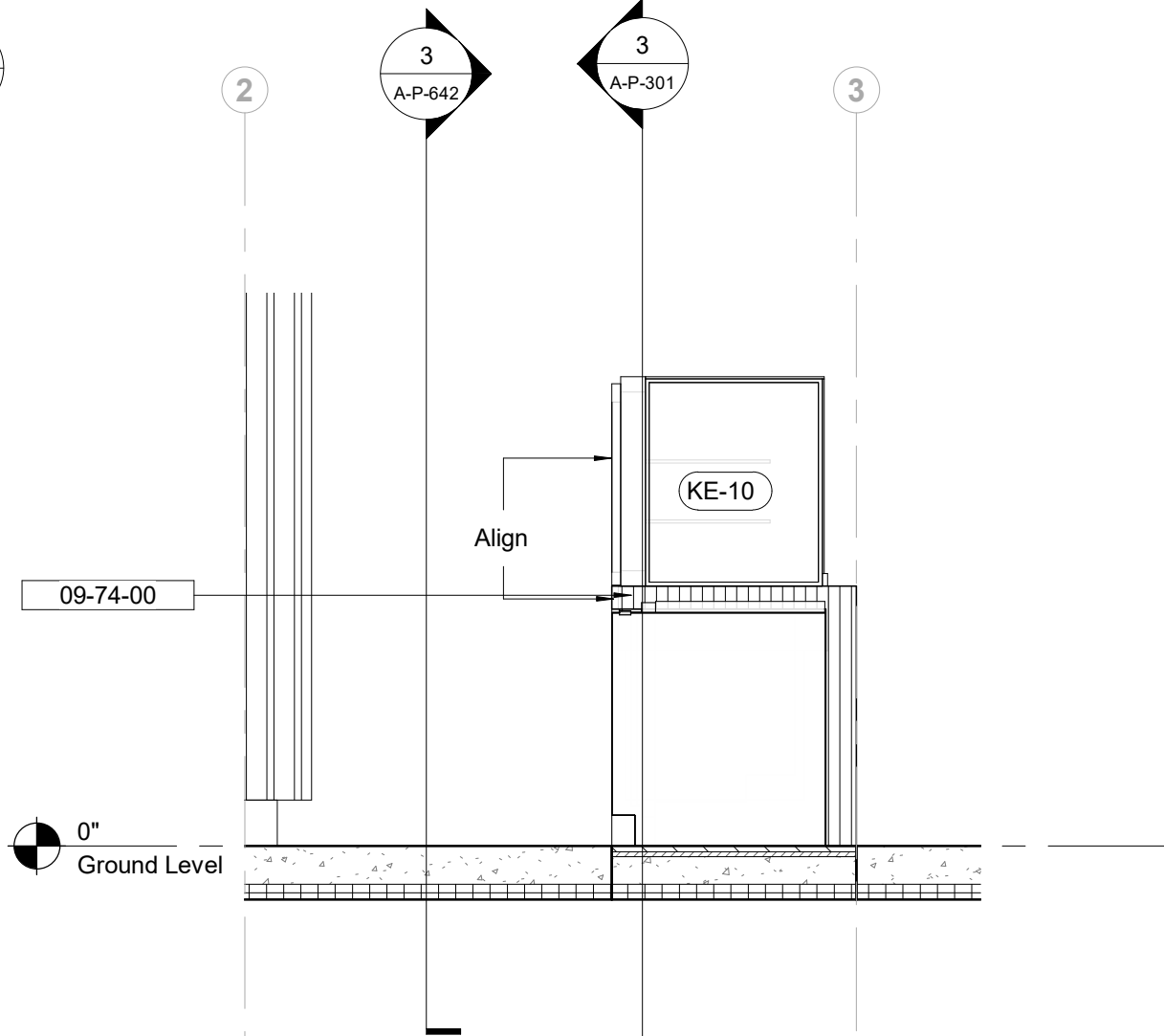


4 FOH Service Counter Section at Barrier
1/2" = 1'-0"

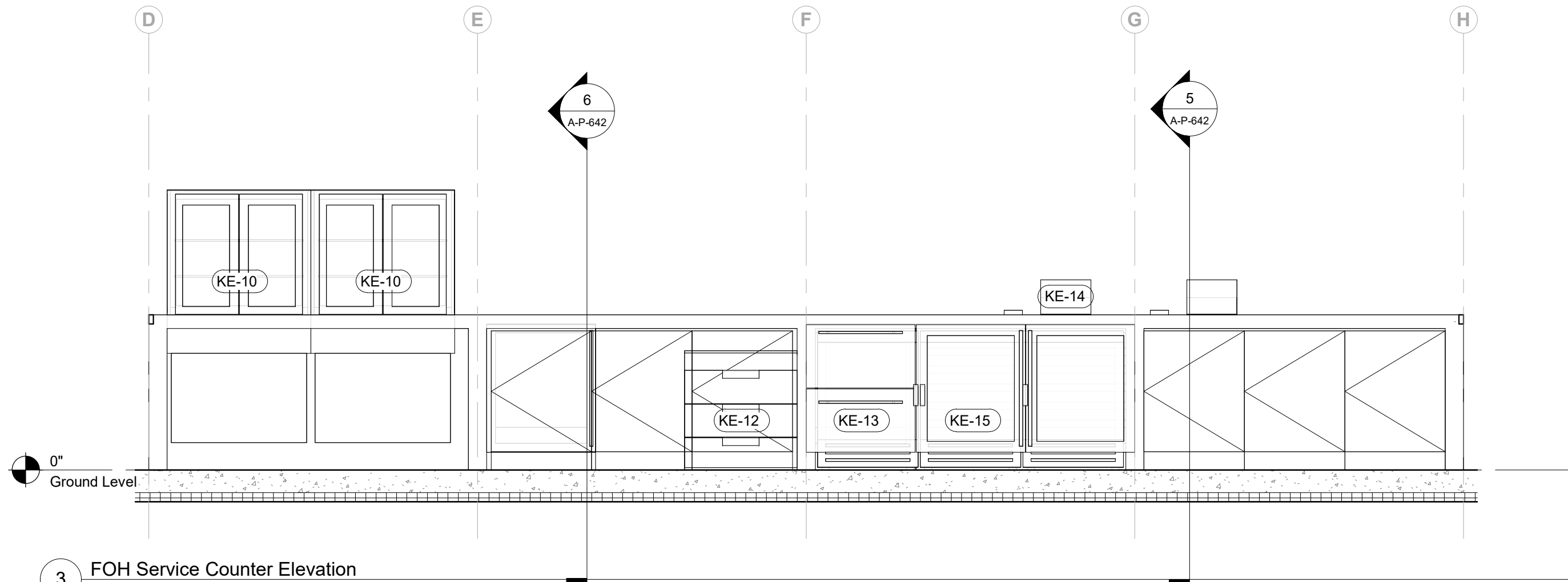
5 FOH Service Counter Section at Till
1/2" = 1'-0"



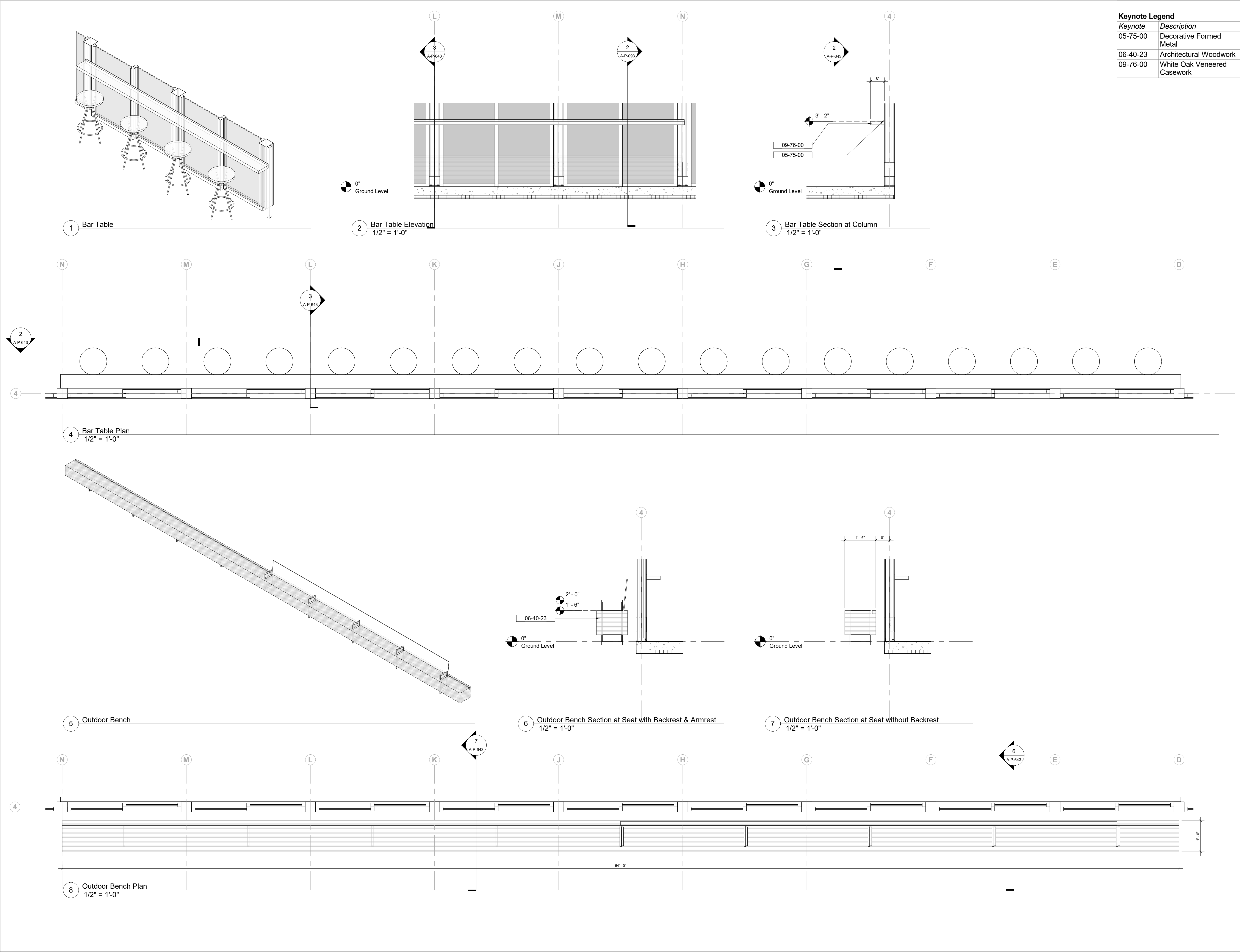
2 FOH Service Counter Plan
1/2" = 1'-0"

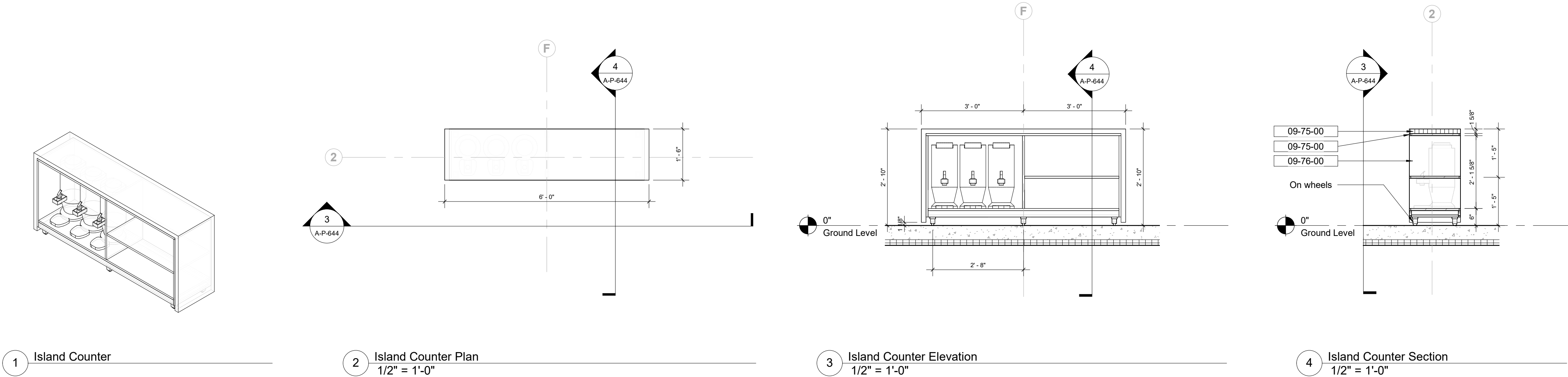


6 FOH Service Counter Section at Display
1/2" = 1'-0"



3 FOH Service Counter Elevation
1/2" = 1'-0"





Keynote Legend	
Keynote	Description
09-75-00	Hardwood Edge
09-76-00	White Oak Veneered Casework

Owner Storm King Art Center 1 Museum Road New Windsor, NY 12553 +1 (845) 534-3115
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Key Plan



Description	Date
50% Construction Documents	11/06/20

Project

Storm King Art Center Pond Pavilion

Seal

NOT FOR CONSTRUCTION
Drawing Title
Millwork Details

Date	11/06/20
Scale	1/2" = 1'-0"
Drawing Number	A-P-644
Sheet Size	ARCH D

Room Schedule				
Level	Number	Name	Occupancy	Room Area
Ground Level	101	Mechanical		12 SF
Ground Level	102	ADA/Family RR	U	48 SF
Ground Level	103	RR	U	31 SF
Ground Level	104	RR	U	31 SF
Ground Level	105	RR	U	31 SF
Ground Level	106	Custodian	B	12 SF
Ground Level	107	Prep		28 SF
Ground Level	108	Service	B	219 SF
Ground Level	109	Trash/Plumbing		49 SF
Ground Level	110	Electrical		8 SF
Ground Level	111	Cafe	B	703 SF
Ground Level	112	Covered Terrace	-	1369 SF

Room Finish Schedule									
ROOM NUMBER	ROOM NAME	FINISH - FLOOR	FINISH - BASE	FINISH - CEILING	FINISH - N WALL	FINISH - S WALL	FINISH - E WALL	FINISH - W WALL	COMMENTS
Ground Level									
101	Mechanical	Broom Finish Concrete	Painted Wood	Exposed Structural Plywood & Joists	Painted Gypsum	N/A	Painted Gypsum	Painted Gypsum	
102	ADA/Family RR	Polished Concrete	Tile To Floor	Exposed Structural Plywood & Joists	2" x 2" Wall Tile	2" x 2" Wall Tile	2" x 2" Wall Tile	2" x 2" Wall Tile	
103	RR	Polished Concrete	Tile To Floor	Exposed Structural Plywood & Joists	2" x 2" Wall Tile	2" x 2" Wall Tile	2" x 2" Wall Tile	2" x 2" Wall Tile	
104	RR	Polished Concrete	Tile To Floor	Exposed Structural Plywood & Joists	2" x 2" Wall Tile	2" x 2" Wall Tile	2" x 2" Wall Tile	2" x 2" Wall Tile	
105	RR	Polished Concrete	Tile To Floor	Exposed Structural Plywood & Joists	2" x 2" Wall Tile	2" x 2" Wall Tile	2" x 2" Wall Tile	2" x 2" Wall Tile	
106	Custodian	Polished Concrete	Painted Wood	Exposed Structural Plywood & Joists	2" x 2" Wall Tile	2" x 2" Wall Tile	2" x 2" Wall Tile	2" x 2" Wall Tile	
107	Prep	Polished Concrete	Painted Wood	Exposed Structural Plywood & Joists	Painted Gypsum	Painted Gypsum	Painted Gypsum	Painted Gypsum	
108	Service	Polished Concrete	Tile To Floor	Exposed Structural Plywood & Joists	Exterior Wood Cladding	Exterior Wood Cladding	N/A	Glazing	
109	Trash/Plumbing	Polished Concrete	Tile To Floor	Exposed Structural Plywood & Joists	2" x 2" Wall Tile	2" x 2" Wall Tile	2" x 2" Wall Tile	2" x 2" Wall Tile	
110	Electrical	Broom Finish Concrete	Painted Wood	Exposed Structural Plywood & Joists	N/A	Painted Gypsum	Painted Gypsum	Painted Gypsum	
111	Cafe	Polished Concrete & Hardwood Flooring	N/A	Exposed Structural Plywood & Joists	Foldable Glazing	Foldable Glazing	Exterior Wood Cladding	Exterior Wood Cladding	

Finish Schedule									
Specification Section	Key Name	Material	Manufacturer	Model/Series	Distributor	Size/Thickness	Finish	Color	Remarks
CARPET									
	CP-1	RECESSED ENTRY MAT							
	CP-2	CARPET TILE							
	CP-3	CARPET TILE							
	CP-4	CARPET TILE							
INTERIOR GLASS & GLAZING									
	GL-1	STARPHIRE CLEAR GLASS							
	GL-2	BACKPAINTED GLASS / CAST							
	GL-3	BACKPAINTED GLASS / CAST							
	GL-4	STARPHIRE MIRROR GLASS							
	GL-5	FROSTED GLASS PARTITION							
	GL-6	BACK-PAINTED GLASS							
METAL									
	MT-1	ALUMINUM (BUILDING FACADE)							
	MT-2	BLACKENED STEEL							
	MT-3	STAINLESS STEEL							
PAINT & STAIN									
	PT-1	TYPICAL CEILING PAINT							
	PT-1A								
	PT-2	TYPICAL WALL PAINT							
	PT-3	TYP TRIM, INTERIOR DOORS, BASE, MILLWORK							
	PT-4	DRY ERASE PAINT							
	PT-5								
	PT-5A								
	PT-6								
PLASTER									
	PL-1								
	PL-2								
PLASTIC LAMINATE									
	PLAM-1								
RESILIENT FLOORING									
	RF-1	LINOLEUM FLOOR TILE							
	RF-2	RESILIENT FLOOR TILE							
	RF-3	RESILIENT FLOOR TILE							
	RF-4A	RUBBER / CORK TILE - DUPLICATE TL-7?							
	RF-4B								
	RF-4C								
SOLID SURFACE MATERIAL									
	SF-1	MARCITE MIXTURE							
	SS-1	QUARTZ SURFACE MATERIAL							
	SS-2	QUARTZ SURFACE MATERIAL							
STONE									
	ST-1	LIMESTONE							
	ST-2	MARBLE							
	ST-3								
TILE									
	TL-1	TERRAZZO TILE							
	TL-2	CERAMIC TILE							
	TL-3	CERAMIC TILE							
	TL-4	CERAMIC TILE							
	TL-5	RECYCLED CERAMIC TILE							
	TL-6	GLASS MOSAIC							
	TL-7	CORK TILE							
WALLCOVERING									
	WC-1	WALLCOVERING							
	WC-2	WALLCOVERING							
	WC-3	WALLCOVERING							
	WC-4	WALLCOVERING							
WINDOW TREATMENT									
	WT-1	MOTORIZED ROLLER SHADE							
	WT-2	MOTORIZED ROLLER SHADE							
WOOD FLOOR									
	WDF-1	END-GRAIN BLOCK FLOORING							
WOOD VENEER									
	WD-1	TEAK VENEER							
	WD-2	OAK VENEER							
	WD-3	WALNUT VENEER							
	WD-4	CEDAR VENEER							

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Key Plan

Description	Date
50% Design Development	02/24/20
100% Design Development	05/29/20
50% Construction Documents	11/06/20

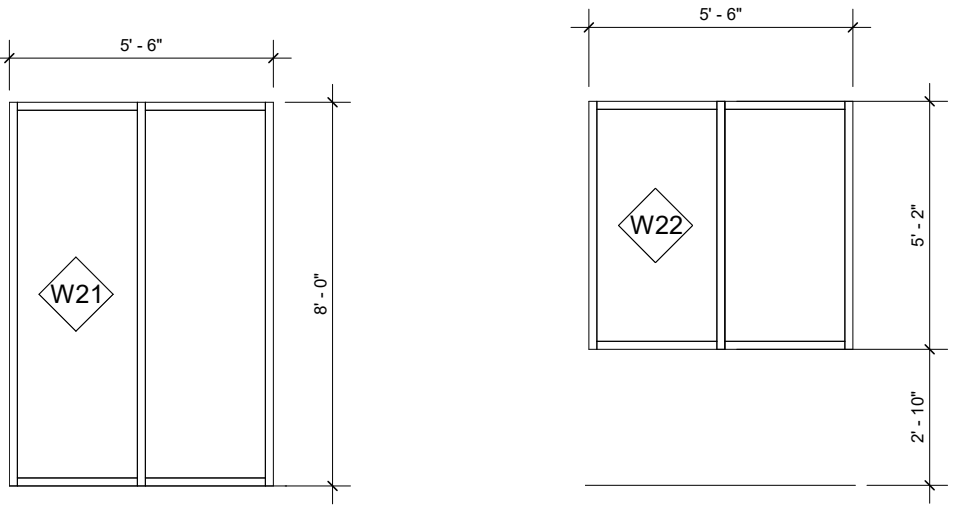
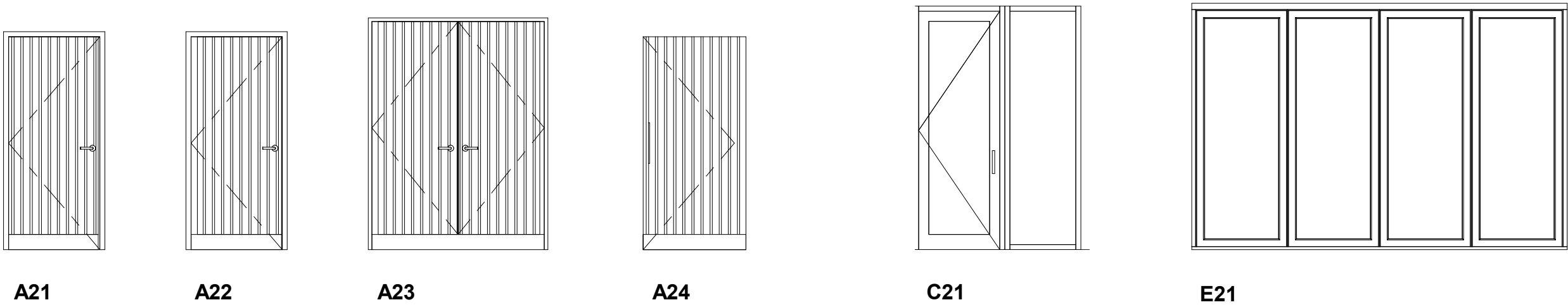
Project

Storm King Art Center Pond Pavilion

Seal

NOT FOR CONSTRUCTION
Drawing Title
**Room & Finish
Schedule**

Date	11/06/20
Scale	Not to Scale
Drawing Number	A-P-701
Sheet Size	ARCH D

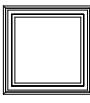


10 EST -10
1/4" = 1'-0"

11 EST -11
1/4" = 1'-0"

Door Schedule											
Number	Door Type	Width	Height	Thickness	Door Material	Door Finish	Frame Material	Frame Finish	Fire Rating	Hardware Set	Comments
Ground Level											
101	A23	5' - 8"	7' - 6"	1 3/4"	Wood to Match Cladding	Waterproof Sealer	Wood	Waterproof Sealer	60 mins		
102	A21	3' - 0"	7' - 0"	1 3/4"	Wood to Match Cladding	Waterproof Sealer	Wood	Waterprrof Sealer	30 mins		
103	A21	3' - 0"	7' - 0"	1 3/4"	Wood to Match Cladding	Waterproof Sealer	Wood	Waterprrof Sealer	30 mins		
104	A21	3' - 0"	7' - 0"	1 3/4"	Wood to Match Cladding	Waterproof Sealer	Wood	Waterprrof Sealer	30 mins		
105	A21	3' - 0"	7' - 0"	1 3/4"	Wood to Match Cladding	Waterproof Sealer	Wood	Waterprrof Sealer	30 mins		
106	A22	3' - 0"	7' - 0"	1 3/4"	Wood to Match Cladding	Clear Wood Sealer	Wood	Clear Wood Sealer	30 mins		
107	A24	3' - 0"	7' - 0"	1 3/4"	Wood to Match Cladding	Waterproof Sealer	Wood	Waterproof Sealer	30 mins		
109.1	A24	3' - 0"	7' - 0"	1 3/4"	Wood to Match Cladding	Waterproof Sealer	Wood	Waterproof Sealer	30 mins		
109.2	A22	3' - 0"	7' - 0"	1 3/4"	Wood to Match Cladding	Clear Wood Sealer	Wood	Clear Wood Sealer	30 mins		
110	A23	5' - 8"	7' - 6"	1 3/4"	Wood to Match Cladding	Waterproof Sealer	Wood	Waterproof Sealer	60 mins		
111.1	E21	12' - 4 1/4"	8' - 0"	2 1/2"	Glass/Wood	Waterproof Sealer	Wood	Waterproof Sealer	30 mins		
111.2	E21	12' - 4 1/4"	8' - 0"	2 1/2"	Glass/Wood	Waterproof Sealer	Wood	Waterproof Sealer	30 mins		
111.3	C21	2' - 8"	7' - 10"	1 3/4"	Glass/Wood	Waterproof Sealer	Wood	Waterproof Sealer	30 mins		
111.4	C21	2' - 8"	7' - 10"	1 3/4"	Glass/Wood	Waterproof Sealer	Wood	Waterproof Sealer	30 mins		

Window Schedule						
Window Type	Count	Description	Frame Material	Frame Finish	Heat Transfer Coefficient (U)	Thermal Resistance (R)
W21	9	Full Height Sliding Window	Wood	Waterproof Sealer		
W22	2	Countertop Sliding Window	Wood	Waterproof Sealer		



Skylight & Louvre Schedule													
Window Tag	Count	Description	Width	Height	Sill Height	Frame Material	Panel 1	Panel 2	Panel 3	Frame Finish	Heat Transfer Coefficient (U)	Solar Heat Gain Coefficient	Thermal Resistance (R)
L21	1	Louvre	5' - 0"	10"	7' - 1 1/2"								
L22	5	Louvre	5' - 6"	10 1/2"	0"								
W23	4	Skylight	1' - 8"	1' - 8"									

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Key Plan

Description	Date
50% Design Development	02/24/20
100% Design Development	05/29/20
50% Construction Documents	11/06/20

Project

Storm King Art Center Pond Pavilion

Seal

NOT FOR CONSTRUCTION
Drawing Title
Window & Door
Schedule

Date	11/06/20
Scale	1/4" = 1'-0"
Drawing Number	A-P-702
Sheet Size	ARCH D

Furniture Schedule					
Type Mark	Item	Manufacturer	Material	Description	Count
FN-01	Outdoor_Dining_Chair_-_ Seaside_Casual_ quot Charleston_Side_Chairquot_20663				16
FN-02	Pond Table Counter Height		Counter Top Solid Surface		4
FN-03	bar_stool_1869				18

Millwork Schedule		
Type Mark	Item	Count
M22	Pond-Serving Cabinetry	1
M23	Exterior Bench2	1
M24	Exterior Bench8	1
MW-01	Pond-Service Cabinetry	1

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Key Plan



Description	Date
50% Construction Documents	11/06/20

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Storm King Art Center Pond Pavilion

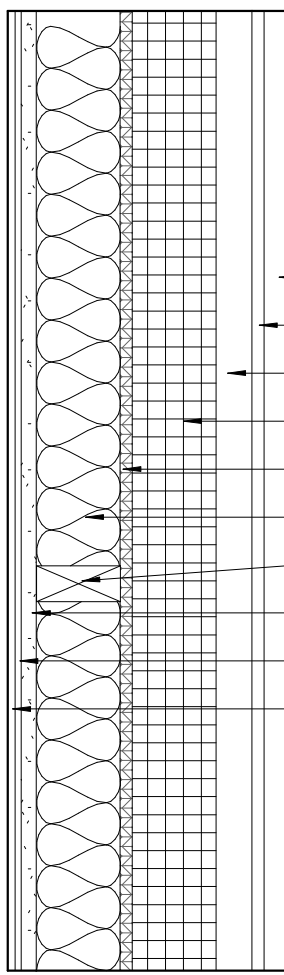
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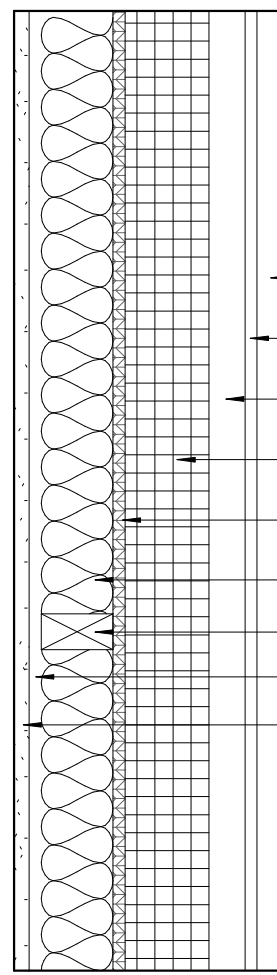
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Millwork & Furniture Schedule

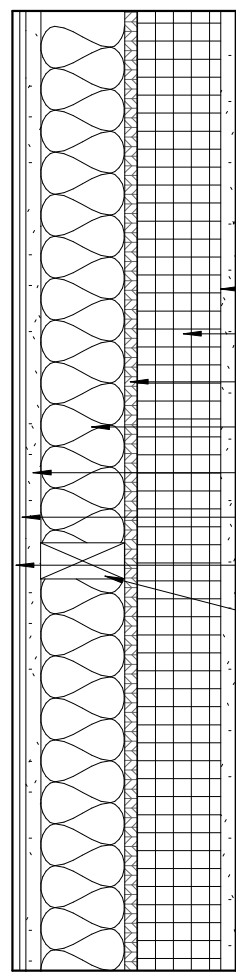
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Drawing Number	A-P-704
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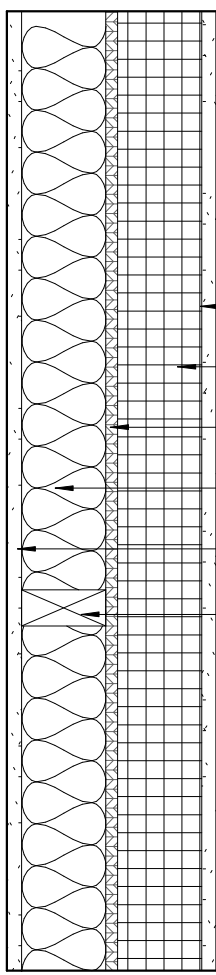
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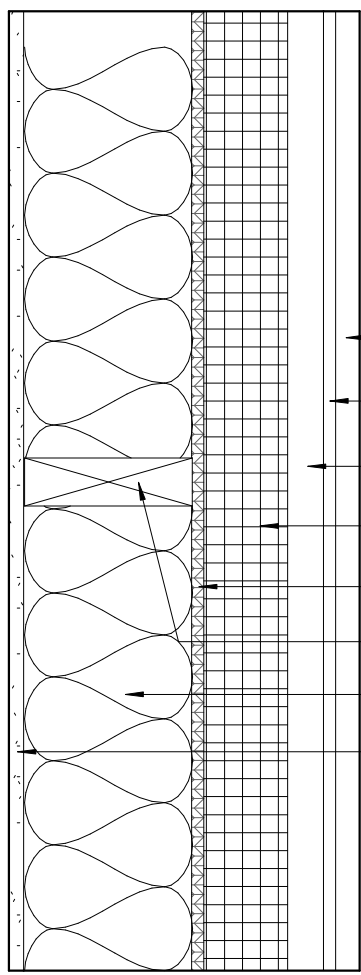
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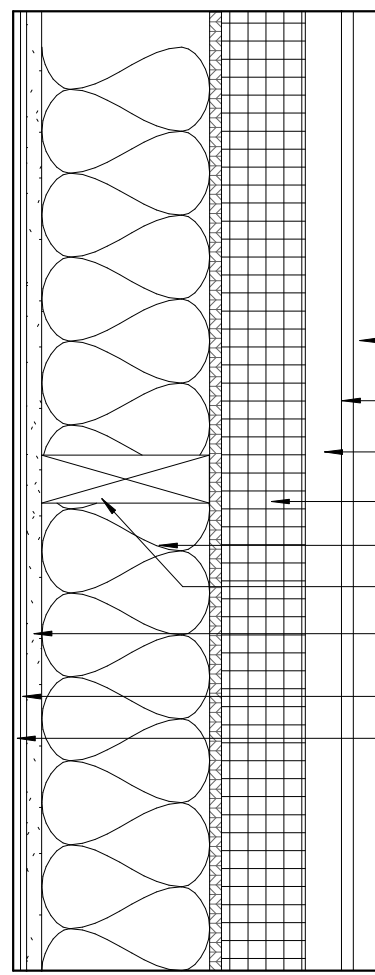
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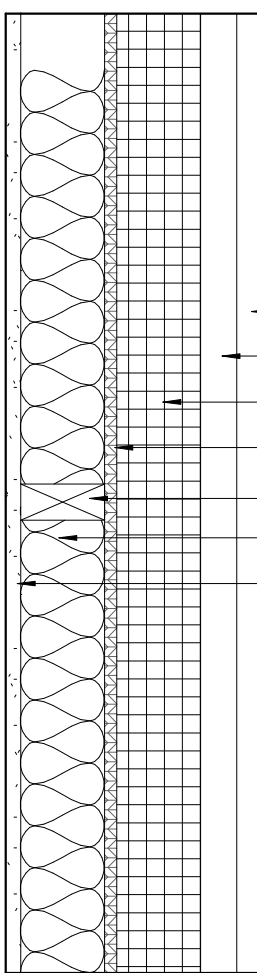
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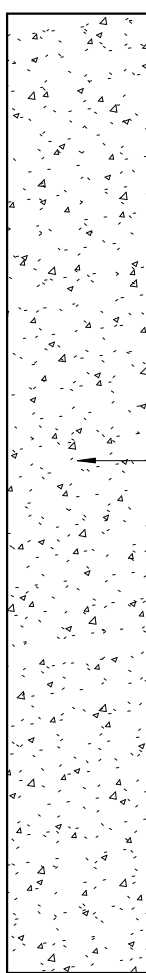
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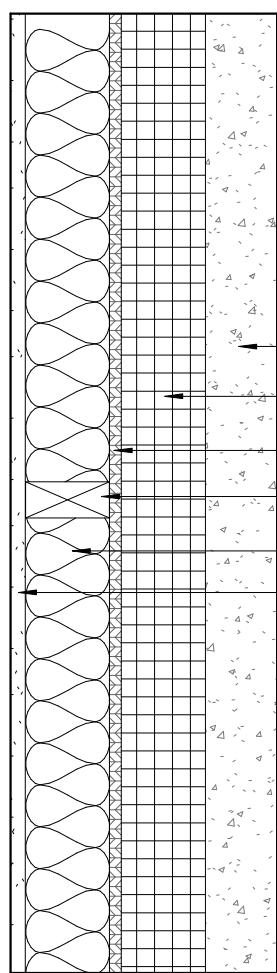
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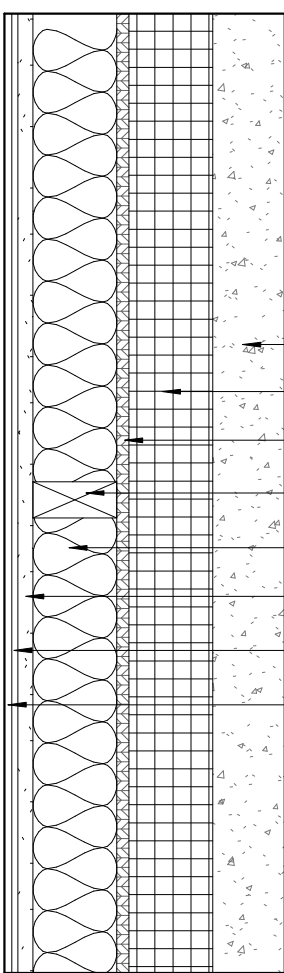
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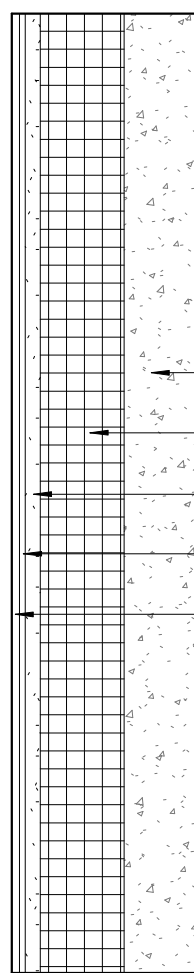
E81



E83



E84



E85

Keynote Legend	
Keynote	Description
03-30-00	Cast-In-Place Concrete
04-05-16	
05-75-00	Decorative Formed Metal
06-10-00.S 1	Stud - 2x7" Nominal
06-10-00.S 3.5	Stud - 2x3.5" Nominal
07-21-00	Batt Insulation
07-21-00.A	Mineral Wool Insulation
07-42-13	Metal Wall Panels
07-46-00.A 1	Abodo 'Pearl' Board - 4x1" Nominal
07-46-00.B 2	Furring Strip - Pressure Treated - 2x3/4"
07-46-00.C	Plywood Sheating - 1/2"
09-22-04	5/8" Gypsum Wall Board
09-22-04.A	5/8" Gypsum Wall Board - Wet
09-30-00	2"x2" Matte Wall Tile

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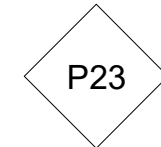
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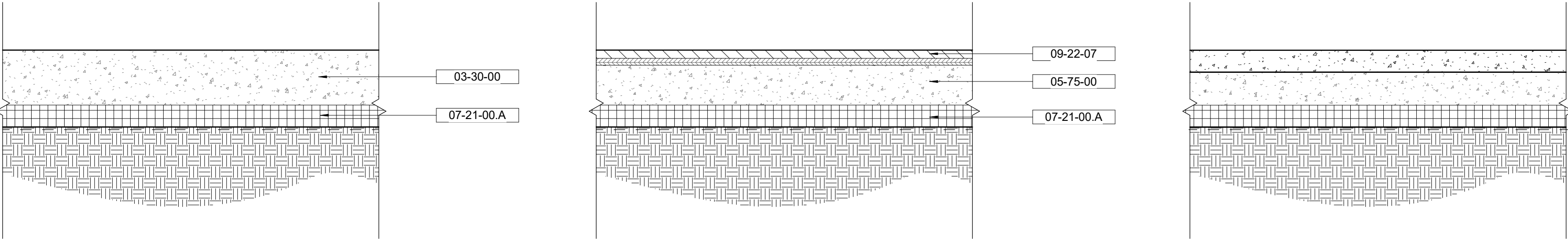
NOT FOR CONSTRUCTION

Drawing Title

Exterior Wall Types

Date	11/06/20
Scale	1 1/2" = 1'-0"
Drawing Number	A-P-711
Sheet Size	ARCH D

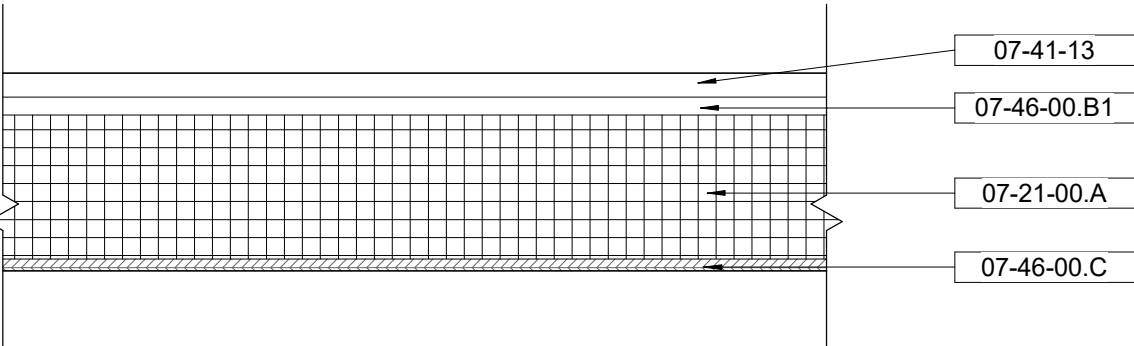




F21 5" Concrete Slab per Structural
8" rigid expanded polystyrene foam insulation
Vapor Barrier

F22 1/2" Timber Flooring
4 1/2" Concrete Slab per Structural
8" rigid expanded polystyrene foam insulation
Vapor Barrier

F23 2" Topping Slab Concrete
In-Slab Electrical Matts
3" Concrete Slab per Structural
8" rigid expanded polystyrene foam insulation
Vapor Barrier



R21 Corrugated Metal Roofing
1" nominal wood furring
6" XPS tapered roof insulation
1/2" plywood per structural

Keynote Legend	
Keynote	Description
03-30-00	Cast-In-Place Concrete
05-75-00	Decorative Formed Metal
07-21-00.A	Mineral Wool Insulation
07-41-13	Metal Roofing
07-46-00.B 1	Furring Strip - Pressure Treated Painted Black - 2x3/4"
07-46-00.C	Plywood Sheating - 1/2"
09-22-07	

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Key Plan

Description	Date
100% Design Development	05/29/20
50% Construction Documents	11/06/20


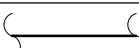
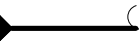
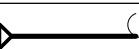
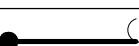
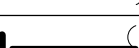











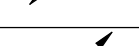






Project

Storm King Art Center Pond Pavilion

Seal

NOT FOR CONSTRUCTION
Drawing Title
Floor & Roof Types

Date	11/06/20
Scale	1 1/2" = 1'-0"
Drawing Number	A-P-731
Sheet Size	ARCH D

SYMBOLS	
SYMBOL	DESCRIPTION
[...]	CAMBER
<...>	NUMBER OF STUDS
(...)	TOP ELEVATION OF STRUCTURAL ELEMENT
	STEEL BEAM
	STEEL JOIST
- - - - -	BRACE FRAME
	MOMENT CONNECTION
	CANTILEVER MOMENT CONNECTION
	DRAG CONNECTION
	PLATE CONNECTION
	STIFFENER PLATE CONNECTION
	SPLICE
	COLUMN STARTS ON THIS LEVEL
	COLUMN FINISHES BELOW THIS LEVEL
	COLUMN HANGER
	COLUMN POST
	SLOPED COLUMN STARTS ON THIS LEVEL
	SLOPED COLUMN FINISHES BELOW THIS LEVEL
	SLOPED COLUMN CONTINUES THROUGH THIS LEVEL
	SLAB DROP
	SLAB SLOPE
	CHANGE IN SLAB THICKNESS
	GROUND
	ONE WAY SPANNING SLAB
	TWO WAY SPANNING SLAB
T/SL = X'-XX"	TOP OF SLAB ELEVATION
	WELD TYPE
	CONCRETE WALL (PLAN VIEW)
- - - - -	CONCRETE BEAM (PLAN VIEW)
	SETTING OUT POINT/WORK POINT
LEVEL 	LEVEL

ABBREVIATIONS	
ABV.	DESCRIPTION
ALT	ALTERNATE
BET	BETWEEN
BF	BOTH FACES
BLDG	BUILDING
BM	BEAM
BOT	BOTTOM
BPL	BASE PLATE
BS	BOTH SIDES
B'ST	BOTTOM OF STEEL
C	CHANNEL
CANT	CANTILEVER
CJ	CONSTRUCTION JOINT
CJP	COMPLETE JOINT PENETRATION (WELD)
CL	CENTERLINE
CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CPL	COVERPLATE
CTRL JT	CONTROL JOINT
D	DEPTH, DEEP, DECK
DEMO	DEMOLITION
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DJ	DOWEL JOINT
DL	DEAD LOAD
DO	DITTO
DWG	DRAWING
E	MODULUS OF ELASTICITY
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
EMB	EMBEDMENT
EQ	EQUAL
EW	EACH WAY
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FF	FAR FACE
FFL	FINISH FLOOR LEVEL
FDN	FOUNDATION
FIN	FINISHED
FL	FLOOR
FS	FAR SIDE
FT	FEET
FTG	FOOTING
FY	YIELD STRESS
GA	GAUGE
GALV	GALVANISED
GR	GRADE
H	AXIAL FORCE, SEE P
HEX	HEXAGON, HEXAGONAL
HORIZ	HORIZONTAL
HP	HIGH POINT
HSB	HIGH-STRENGTH BOLT
HSS	HOLLOW STRUCTURAL SECTION
HT	HEIGHT
ID	INSIDE DIAMETER
IF	INSIDE FACE
IJ	ISOLATION JOINT
IN	INCH
INT	INTERIOR
JT	JOINT
K	KIP = 1000 LBS
KSF	KIPS PER SQUARE FOOT

ABBREVIATIONS	
ABV.	DESCRIPTION
L	LENGTH
LB	POUND
LG	LONG
LIN	LINEAR OR LINEAL
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LOW POINT
LSL	LONG SLOTTED (BOLT HOLE)
LT	LIGHT
LW	LIGHT WEIGHT
M	MOMENT FORCE
MD	METAL DECK
MF	MOMENT FRAME
MJ	MOVEMENT JOINT
NF	NEAR FACE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NS	NEAR SIDE
NTS	NOT TO SCALE
NW	NORMAL WEIGHT
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
OVS	OVERSIZE (BOLT HOLE)
P	AXIAL FORCE
PCF	POUNDS PER CUBIC FOOT
PERP	PERPENDICULAR
PL	PLATE
PP	PARTIAL PENETRATION (WELD)
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT
R	RADIUS
REBAR	REINFORCING BAR
REINF	REINFORCE(ING)
REV	REVISION
S	SLAB
SIM	SIMILAR
SL	SLAB
SOG	SLAB ON GRADE
SQ FT	SQUARE FOOT
SQ IN	SQUARE INCH
SS	STAINLESS STEEL
SSL	SHORT SLOTTED (BOLT HOLE)
STD	STANDARD
STIFF	STIFFENER
ST	STEEL
STRUCT	STRUCTURAL
T&B	TOP & BOTTOM
THK	THICK
T/CONC	TOP OF CONCRETE
T/D	TOP OF METAL DECK
TOPG	TOPPING
T/SL	TOP OF SLAB
T/ST	TOP OF STEEL
TS	STRUCTURAL STEEL TUBE
T/WALL	TOP OF WALL
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	SHEAR FORCE
VERT, V	VERTICAL (FORCE)
VIF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WP	WORK POINT
WWF	WELDED WIRE FABRIC
XS	EXTRA STRONG (PIPE)
XXS	DOUBLE EXTRA STRONG (PIPE)

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Key Plan

Description	Date
50% Design Development	02/24/20
100% Design Development	05/29/20
50% Construction Documents	11/06/20

Project

Storm King Art Center Pond Pavilion

Seal

NOT FOR CONSTRUCTION
Drawing Title
Structural Symbols
and Abbreviations

Date	11/06/20
Scale	12" = 1'-0"
Drawing Number	S-P-001
Sheet Size	ARCH D

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

A. PROJECT GOVERNING CODE(S) AND STANDARDS.

B. DRAWINGS.

C. SPECIFICATIONS.
2. THE STRUCTURAL DRAWINGS ARE INTENDED TO WORK WITH AND BE COMPLEMENTARY TO THE PROJECT SPECIFICATIONS. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
3. IN THE EVENT THAT CERTAIN DETAILS OF THE CONSTRUCTION ARE NOT FULLY SHOWN OR NOTED ON DRAWINGS, THEIR CONSTRUCTION SHALL BE OF THE SAME TYPE AS FOR SIMILAR CONDITIONS THAT ARE SHOWN OR NOTED, SUBJECT TO THE STRUCTURAL ENGINEER'S APPROVAL.
4. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE COMMENCING WITH THE WORK AND NOTIFY THE ARCHITECT AND ENGINEER OF ANY DISCREPANCIES WITH THE INFORMATION SHOWN ON THE DRAWINGS.
5. THE CONTRACTOR SHALL USE STRUCTURAL DRAWINGS IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION AND ALL OTHER RELEVANT CONSULTANT DRAWINGS.
6. SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:

A. SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS, EXCEPT AS NOTED.

B. SIZE AND LOCATION OF ALL INTERIOR AND EXTERIOR NON-BEARING PARTITIONS, FAÇADE, LOUVERS ETC., EXCEPT AS NOTED.

C. SIZE AND LOCATION OF ALL CONCRETE CURBS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHANGE IN LEVEL, CHAMFERS, GROOVES, INSERTS, ETC., EXCEPT AS SHOWN.

D. SIZE AND LOCATION OF ALL FLOOR AND ROOF OPENINGS EXCEPT AS SHOWN.

E. FLOOR AND ROOF FINISHES.

F. EDGE OF SLAB LOCATIONS AROUND THE PERIMETER AND AT INTERIOR OPENINGS, EXCEPT AS SHOWN.

G. DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS.

H. STAIRS EXCEPT AS SHOWN.

I. FIREPROOFING.

J. WATERPROOFING.

K. MISCELLANEOUS STEEL REQUIRED FOR SUPPORT OF ARCHITECTURAL ELEMENTS.
7. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR THE FOLLOWING:

A. PIPE RUNS, SLEEVES, HANGERS, TRENCHES EXCEPT AS SHOWN OR NOTED.

B. ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS. CONDUITS SHALL NOT BE CAST IN CONCRETE MEMBERS UNLESS SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS.

C. CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL, OR PLUMBING FIXTURES.

D. SIZE AND LOCATION OF EQUIPMENT PADS AND EQUIPMENT ANCHORAGE EXCEPT AS SHOWN OR NOTED.

E. ALL LIGHTNING PROTECTION AND/OR GROUND/EARTHING REQUIREMENTS INCLUDING ANY ASSOCIATED ITEMS EMBEDDED IN OR ATTACHED TO STRUCTURE.

F. VERIFY AND COORDINATE ALL OPENINGS, EQUIPMENT PADS, SLEEVES AND INSERTS WITH REVIEWED SUBMITTALS, AND NOTIFY THE STRUCTURAL ENGINEER USING HIGHLIGHTED DRAWINGS PRODUCED TO SCALE WHERE THESE DEVIATE IN SIZE OR LOCATION FROM THE STRUCTURAL DRAWINGS.
8. OPENINGS, POCKETS, ETC. LARGER THAN 6" SHALL NOT BE PLACED IN CONCRETE SLABS, DECKS, WALLS, UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS. NOTIFY THE STRUCTURAL ENGINEER WHEN DRAWINGS BY OTHERS SHOW OPENINGS, POCKETS, ETC. LARGER THAN 6" WHICH ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS BUT WHICH ARE LOCATED IN STRUCTURAL MEMBERS.
9. DEPRESSIONS IN SLABS SHALL NOT BE PLACED UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS. NOTIFY THE STRUCTURAL ENGINEER WHEN DRAWINGS BY OTHERS SHOW DEPRESSIONS WHICH ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS BUT WHICH ARE LOCATED IN STRUCTURAL SLABS.
10. THE INFORMATION SHOWN FOR NON-STRUCTURAL ELEMENTS/FINISHES IS GIVEN FOR REFERENCE ONLY. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR THIS INFORMATION.
11. SCALES NOTED ON STRUCTURAL DRAWINGS ARE FOR REFERENCE ONLY. NO DIMENSIONAL INFORMATION SHALL BE OBTAINED BY SCALING FROM THE DRAWINGS. THE CONTRACTOR SHALL VERIFY DIMENSIONS NOT NOTED WITH THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
12. CLADDING/FAÇADE/STAIR CONNECTIONS TO THE STRUCTURE SHALL NOT INTRODUCE TORSION AND UNACCEPTABLE LOAD ECCENTRICITIES TO STRUCTURAL MEMBERS. SUCH CONDITIONS SHOULD BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER WHO MAY REQUIRE ADDITIONAL BRACING TO BE PROVIDED BY THE CLADDING/FAÇADE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

CODES AND STANDARDS

1. WHERE CODES AND STANDARDS ARE REFERENCED IN THE CONTRACT DOCUMENTS, THEY SHALL BE THE LATEST EDITIONS, UNLESS NOTED OTHERWISE.
2. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF 2015 INTERNATIONAL BUILDING CODE (IBC) INCLUDING REFERENCE STANDARDS, ADDENDA AND APPENDICES WITH 2017 NEW YORK STATE UNIFORM CODE SUPPLEMENT.
3. IN ADDITION, THE FOLLOWING CODES, STANDARDS AND SPECIFICATIONS SHALL APPLY WHERE MORE STRINGENT AND AS MODIFIED BY THE BUILDING CODE:

A. ACI 318-11: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY.

B. AISC: STEEL CONSTRUCTION MANUAL, 14TH EDITION.

C. AISC 303-10: CODE OF STANDARD PRACTICE FOR STRUCTURAL STEEL BUILDINGS AND BRIDGE

D. ANSI/AISC 360-10: SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS.

E. ASCE 7-10: MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.

F. AWS D1.1/D1.1M:2010: STRUCTURAL WELDING CODE-STEEL.
4. THE ASTM STANDARDS REFERRED TO IN THE DRAWINGS AND SPECIFICATIONS AND USED IN DESIGN ARE THOSE INCLUDED AS REFERENCED STANDARDS TO THE PROJECT GOVERNING CODE(S). WHERE AN ASTM STANDARD HAS SUBSEQUENTLY BEEN REVISED, CONSTRUCTION SHALL COMPLY WITH BOTH THE LATEST EDITION OF THAT STANDARD AND THE EDITION OF THAT STANDARD REFERENCED IN DESIGN. WHERE IT IS NOT POSSIBLE TO SATISFY THE REQUIREMENTS OF BOTH EDITIONS OF THE STANDARDS DUE TO A CONFLICT BETWEEN THEM, NOTIFY THE ARCHITECT AND ENGINEER BEFORE PROCEEDING.

TEMPORARY WORK

1. ALL TEMPORARY WORK SHALL BE DESIGNED, INSTALLED AND CARRIED OUT BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROJECT GOVERNING CODE(S).
2. THE DRAWINGS INDICATE THE COMPLETED STRUCTURE. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ALL TEMPORARY MEASURES NECESSARY FOR ERECTION.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE PROPER SHORING AND BRACING WHEREVER NECESSARY. ALL TEMPORARY SHORING/BRACING SHALL BE DESIGNED BY A CIVIL AND/OR STRUCTURAL ENGINEER REGISTERED IN NEW YORK STATE.
4. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING THE SHORING DRAWINGS AND CALCULATIONS TO THE AUTHORITY HAVING JURISDICTION AS REQUIRED.
5. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LIVE LOADS PER SQUARE FOOT AS SHOWN ON THE DRAWINGS. PROVIDE SHORING AND/OR BRACING WHERE THE STRUCTURE HAS NOT ATTAINED ITS DESIGN STRENGTH.

DESIGN BASIS

1. SUPERIMPOSED DEAD LOADS: REFER TO LOADING DIAGRAMS.
2. LIVE LOADS: REFER TO LOADING DIAGRAMS.
3. WIND LOADS:

PARAMETER	VALUE
BASIC WIND SPEED, V	115 MPH
WIND IMPORTANCE FACTOR, I	1.00
WIND EXPOSURE CATEGORY	B
OCCUPANCY CATEGORY	II
GUST FACTOR, G = 0.85	0.85
DIRECTIONALITY FACTOR, Kd = 0.85	0.85

4. SNOW LOADS:

PARAMETER	VALUE
GROUND SNOW LOAD	30 PSF
SNOW IMPORTANCE FACTOR, I	1.00
SNOW EXPOSURE CATEGORY	B
THERMAL FACTOR	0.9
UNBALANCED DRIFT PER CODE	

5. SEISMIC LOADS:

PARAMETER	VALUE
SEISMIC IMPORTANCE FACTOR, I	1.00
SITE CLASS	D
Sms	0.360g
Sm1	0.164g
Sds	0.240g
Sd1	0.109g
OCCUPANCY CATEGORY	II
SEISMIC DESIGN CATEGORY	B
SEISMIC FORCE-RESISTING SYSTEM	CONCENTRIC BRACED FRAME
RESPONSE MODIFICATION COEFFICIENT, R	
SEISMIC RESPONSE COEFFICIENT, Cs	3.25
DESIGN BASE SHEAR, V	470KIP
SYSTEM OVERSTRENGTH FACTOR, Q0	
DEFLECTION AMPLIFICATION FACTOR, Cd	
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE

FOUNDATIONS

1. THE FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT BY TECTONIC ENGINEERING & SURVEYING CONSULTANTS P.C. DATED JANUARY 3, 2020.
2. THE FOLLOWING PARAMETERS WERE USED IN THE DESIGN OF FOUNDATIONS:

PARAMETER	VALUE
BEARING PRESSURE, B/FTG < 4'-0" FROM EX GRADE	4000 PSF
BEARING PRESSURE, B/FTG > 4'-0" FROM EX GRADE	6000 PSF
BEARING PRESSURE, POND PAVILION	2000 PSF
SUBGRADE MODULUS	125 PCI
3. REFER TO THE GEOTECHNICAL REPORT FOR INFORMATION ON GENERAL SUBSURFACE PROFILES, SOIL PROPERTIES, EXISTING SITE FEATURES AND ALL OTHER CONDITIONS AFFECTING FOUNDATION INSTALLATION.
4. REFER TO THE GEOTECHNICAL REPORT FOR INFORMATION ON SUBGRADE PREPARATION FOR SLAB-ON-GRADE CONSTRUCTION.
5. REFER TO THE GEOTECHNICAL REPORT FOR REQUIREMENTS FOR EXCAVATIONS, GRADING, COMPACTION AND BACKFILLING BEHIND WALLS RETAINING EARTH.
6. BACKFILLING AGAINST RETAINING/BASEMENT WALLS WHERE THERE IS GRADE ON BOTH SIDES OF THE WALL SHALL BE CARRIED OUT IN SUCH A MANNER THAT THE DIFFERENCE IN SOIL LEVEL IS NEVER MORE THAN 3.0 FEET. DO NOT PLACE BACKFILL BEHIND WALLS RETAINING EARTH BEFORE CONCRETE HAS ATTAINED FULL DESIGN STRENGTH UNLESS TEMPORARY BRACING IS PROVIDED.
7. BACKFILL SHALL NOT BE PLACED AGAINST WALLS RETAINING EARTH (OTHER THAN CANTILEVER WALLS) UNTIL THE ATTACHING FLOORS/SLABS (AT TOP AND BOTTOM OF THE WALL) ARE COMPLETELY IN PLACE AND HAVE ATTAINED FULL DESIGN STRENGTH.
8. NEW FOOTINGS WHICH ARE LOCATED IMMEDIATELY ADJACENT TO EXISTING FOOTINGS SHALL BE FOUNDED AT THE SAME ELEVATION AS THE EXISTING FOOTINGS UNLESS NOTED OTHERWISE. EXISTING ADJACENT FOOTINGS SHALL NOT BE UNDERMINED BY EXCAVATION OR NEW CONSTRUCTION.
9. WATER SHALL NOT BE ALLOWED TO STAND IN TRENCHES BEFORE OR AFTER CONCRETE IS PLACED. IF TRENCHES BECOME SOFTENED DUE TO RAIN OR OTHER WATER BEFORE THE FOOTINGS ARE CAST, THE GEOTECHNICAL ENGINEER SHALL REVIEW THE CONDITIONS AND PROVIDE THE NECESSARY MITIGATION REQUIREMENTS TO THE CONTRACTOR.
10. ALL EXCAVATIONS, COMPACTIONS AND BACKFILLING SHALL BE INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER BEFORE PLACEMENT OF CONCRETE.
11. REFER TO PLUMBING AND/OR CIVIL DRAWINGS FOR UNDER-FLOOR AND PERIMETER WALL DRAINAGE SYSTEMS AND SPECIAL GRANULAR FILL MATERIALS FOR SUCH DRAINAGE.

SUBMITTALS

1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS AS BOTH SIGNED AND STAMPED BY A PROFESSIONAL ENGINEER AS REQUIRED BY THE SPECIFICATIONS, FOR ENGINEER'S APPROVAL.
2. ONLY SHOP DRAWINGS MARKED "NO EXCEPTIONS TAKEN", "REVISE AS NOTED" OR "SEE COMMENTS NOTED" MAY BE USED BY CONTRACTOR IN THE WORK. SHOP DRAWINGS MARKED "REJECTED" OR "RESUBMIT FOR REVIEW" SHALL BE CORRECTED AND COMPLETED AS REQUIRED AND RESUBMITTED TO THE ARCHITECT BEFORE THEY ARE USED IN THE WORK.
3. CONTRACTOR SHALL PREPARE AND MAINTAIN A SCHEDULE OF ALL SUBMITTALS INCLUDING INTENDED DATES OF SUBMISSION AND NUMBER OF DRAWINGS TO BE SUBMITTED EACH WEEK.
4. THE CONTRACTOR SHALL BE AWARE THAT SUBMITTALS WILL BE REVIEWED IN THE ORDER IN WHICH THEY ARE RECEIVED. THE CONTRACTOR SHALL PLAN ACCORDINGLY.
5. SUBMIT ALL ITEMS IN ACCORDANCE WITH THE SPECIFICATIONS. THE ENGINEER RESERVES THE RIGHT TO NOT REVIEW ANY OTHER ITEMS.

CONCRETE

1. STRUCTURAL CONCRETE STRENGTHS AND TYPES USED IN THIS PROJECT SHALL BE AS FOLLOWS:

LOCATION IN STRUCTURE	f'c	DENSITY
SLAB ON GRADE	4000 PSI	150 PCF
LIGHTWEIGHT CONCRETE FILL ON METAL DECK (INCLUDING CURBS, EQUIPMENT PADS, ETC. ON METAL DECK SLABS)	4000 PSI	115 PCF
FOUNDATIONS (FOOTINGS, PILE CAPS, GRADE BEAMS)	4000 PSI	150 PCF
WALLS	4000 PSI	150 PCF
FORMED SLABS, COLUMNS AND BEAMS (INCLUDING CURBS, EQUIPMENT PADS, ETC. ON FORMED SLABS)	4000 PSI	150 PCF
ALL OTHER CONCRETE	4000 PSI	150 PCF

f'c IS THE 28-DAY COMPRESSIVE STRENGTH AS DEFINED IN ACI 318.

2. ALL CONCRETE MIXES SHALL COMPLY WITH THE REQUIREMENTS OF THE PROJECT GOVERNING CODE(S). MIX DESIGNS FOR EACH TYPE AND STRENGTH SHALL BE PREPARED BY CONTRACTOR ADN TESTED BY AN INDEPENDENT TESTING LABORATORY. THE MIX DESIGNS SHALL THEN BE SUBMITTED TO THE ENGINEER FOR REVIEW.
3. NORMAL WEIGHT AGGREGATE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C33. LIGHTWEIGHT AGGREGATE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C330 AND ASTM C157.
4. ALL CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL CONSTRUCTION JOINT DETAILS SHOWN ON THE STRUCTURAL AND ARCHITECTURAL DRAWINGS.
5. CLEAN AND ROUGHEN TO 1/4" AMPLITUDE ALL CONCRETE CONSTRUCTION JOINT SURFACES AGAINST WHICH CONCRETE IS TO BE PLACED. ALL CONSTRUCTION JOINTS SHALL BE WETTED AND STANDING WATER SHALL BE REMOVED IMMEDIATELY BEFORE NEW CONCRETE IS PLACED. PROVIDE CLASS "B" SPLICE AT ALL REINFORCEMENT CROSSING CONSTRUCTION JOINTS, TYPICAL UNLESS NOTED OTHERWISE.
6. CONTRACTOR SHALL COORDINATE AND INSTALL ALL REQUIRED EMBEDDED ITEMS, SLEEVES, POCKETS, ETC. PRIOR TO CONCRETE PLACEMENT. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE WALLS/SLABS BEFORE PLACING CONCRETE. DO NOT CUT ANY REINFORCING WHICH MAY CONFLICT. PIPES AND/OR CONDUITS SHALL NOT PASS THROUGH COLUMNS AND BEAMS UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS.
7. CORING OF CONCRETE AFTER PLACEMENT IS NOT PERMITTED.
8. THE PROJECTING CORNERS OF COLUMNS, BEAMS, WALLS, ETC. SHALL BE FORMED WITH 3/4" CHAMFER, UNLESS NOTED OTHERWISE ON ARCHITECTURAL DRAWINGS.
9. THE CONTRACTOR SHALL NOTIFY THE TESTING AGENCY AND OWNER 48 HOURS BEFORE POURING OF CONCRETE FOR INSPECTION OF REINFORCEMENT LAYOUT. NO CONCRETE SHALL BE POURED UNLESS ALL REINFORCEMENT AND INSTALLATIONS HAVE BEEN INSPECTED AND APPROVED BY THE TESTING AGENCY.
10. LOCATION OF CONSTRUCTION JOINTS SHALL BE AS INDICATED ON STRUCTURAL DRAWINGS.
11. CONCRETE CAST ON SLOPED SURFACES SHALL BEGIN AT THE LOWEST ELEVATION AND CONTINUE MONOLITHICALLY TOWARD THE HIGHER ELEVATION UNTIL THE INTENDED CAST IS COMPLETED.
12. NO ALUMINUM SHALL BE CAST IN CONCRETE.
13. REFER TO ARCHITECTURAL DRAWINGS FOR FINISHING OF ALL EXPOSED CONCRETE SURFACES.
14. REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615, GRADE 60. REINFORCING BARS WHICH ARE TO BE WELDED SHALL CONFORM TO APPLICABLE ASTM AND AWS SPECIFICATIONS.
15. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. USE ONLY FLAT SHEETS. MINIMUM LAP OF WELDED WIRE REINFORCEMENT SHALL BE 6" OR ONE FULL MESH PLUS 2", WHICHEVER IS GREATER.
16. PROVIDE DEVELOPMENT AND SPLICES OF REINFORCEMENT ACCORDING TO THE TYPICAL DETAILS TABLE. LAP SPLICES SHALL BE SECURELY TIED AT ALL SIDE AND END LAPS.
17. REINFORCING BARS MARKED AS "CONTINUOUS" SHALL BE TENSION SPLICED, UNLESS OTHERWISE SHOWN ON DRAWINGS.
18. REINFORCING BAR SPLICES SHALL BE MADE ONLY WHERE INDICATED ON THE DRAWINGS. WHERE SPLICE LOCATIONS ARE NOT SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL SHOW THEIR PROPOSED SPLICE LOCATIONS ON THE SHOP DRAWINGS.
19. ALL BARS AT NON-CONTINUOUS ENDS SHALL HAVE A STANDARD HOOK.
20. WELDING OF REINFORCING STEEL BARS SHALL BE IN ACCORDANCE WITH AWS D1.4. WELD REINFORCING BARS ONLY WHERE INDICATED ON THE DRAWINGS. TACK WELDING OR WELDING OF BARS TO PLATES, TEMPLATES, ETC. IS PROHIBITED, UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS.
21. DOWELS CONNECTING WALLS OR COLUMNS TO FOUNDATIONS SHALL BE THE SAME GRADE, SIZE AND SPACING AS THE VERTICAL REINFORCING BARS IN THE WALLS OR COLUMNS, UNLESS NOTED OTHERWISE.
22. ALL DOWELS SHALL BE FULLY DEVELOPED IN TENSION UNLESS NOTED OTHERWISE.
23. BARS SHALL NOT BE BENT OR TWISTED IN THE FIELD, UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS.
24. ALL REINFORCING BARS, INSERTS, EMBEDS ETC. SHALL BE SECURELY HELD IN PLACE TO MAINTAIN THEIR POSITIONS WHILE CONCRETE IS POURED. PROVIDE SUITABLE CHAIRS, TIES, SPACERS, ADDITIONAL BARS AND STIRRUPS AS REQUIRED.

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Key Plan

Description	Date
50% Design Development	02/24/20
100% Design Development	05/29/20
50% Construction Documents	11/06/20

Project

Storm King
Art Center
Pond Pavilion

Seal

NOT FOR CONSTRUCTION

Drawing Title
Structural General
Notes, Sheet 1

Date	11/06/20
Scale	12" = 1'-0"
Drawing Number	S-P-002
Sheet Size	ARCH D

STRUCTURAL STEEL

1. STRUCTURAL STEEL MEMBERS SHALL CONFORM TO THE FOLLOWING UNLESS NOTED OTHERWISE:

SHAPE	GRADE	YIELD STRENGTH Fy (KSI)
WIDE FLANGE SHAPES	ASTM A992	50
TEES	ASTM A992	50
CHANNELS	ASTM A36	36
ANGLES	ASTM A36	36
PLATES	ASTM A572 GRADE 50	50
BARs	ASTM A500 GRADE 50	50
SQUARE & RECTANGULAR HSS	ASTM A500 GRADE B	46
ROUND HSS	ASTM A500 GRADE B	42
STEEL PIPE	ASTM A53 GRADE B	35

2. HIGH-STRENGTH BOLTS SHALL CONFORM TO THE FOLLOWING UNLESS NOTED OTHERWISE:

BOLT TYPE	REMARKS
ASTM A325	WHERE NOTED ON DRAWINGS
ASTM A490	WHERE NOTED ON DRAWINGS
ASTM A307 GRADE A	MACHINE BOLTS WHERE NOTED ON DRAWINGS

3. WHERE NON-SLIP CRITICAL BOLTS ARE SPECIFIED THEY SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION. SEE DETAILS AND SCHEDULES FOR BOLT DIAMETERS AND SCHEDULES.
4. ALL BOLT HOLES SHALL BE STANDARD SIZE HOLES (1/16" LARGER IN DIAMETER THAN THE DIAMETER OF THE BOLT) UNLESS NOTED OTHERWISE.
5. ALL BOLTS SPECIFIED AS SLIP CRITICAL BOLTS (A325-SC OR A490-SC) SHALL HAVE CLASS A FAYING SURFACES UNLESS NOTED OTHERWISE.
6. AT ALL SLIP CRITICAL CONNECTIONS SLIP IS CHECKED AT THE FACTORED LOAD LEVEL UNLESS NOTED OTHERWISE.
7. ALL STEEL MEMBERS FRAMING INTO CONCRETE WALLS/COLUMNS/BEAMS SHALL BE DETAILED TO SUIT CONCRETE FIELD TOLERANCES. COORDINATE WITH CONCRETE CONTRACTOR AND/OR CONDUCT FIELD SURVEYS AS NECESSARY PRIOR TO STEEL FABRICATION.
8. CUTTING AND DRILLING OF STRUCTURAL STEEL MEMBERS IN THE FIELD IS NOT PERMITTED.
9. NO OPENINGS AND/OR PENETRATIONS SHALL BE PLACED IN STEEL MEMBERS UNLESS SPECIFICALLY SHOWN AND DETAILED ON THE STRUCTURAL DRAWINGS.
10. ALL STEEL MEMBERS RELATED TO ELEVATORS SHALL BE COORDINATED WITH THE ELEVATOR CONTRACTOR PRIOR TO FABRICATION.
11. REFER TO SPECIFICATIONS FOR STEELWORK PROTECTION AND COATINGS.
12. SPLICES SHALL BE DESIGNED TO DEVELOP THE FULL CAPACITY OF THE MEMBER AT THE POINT OF SPLICE. SPLICES SHALL BE MADE ONLY AT LOCATIONS INDICATED ON DRAWINGS. FULL DETAIL AND BACK-UP CALCULATIONS OF SPLICES REQUIRE REVIEW AND APPROVAL BY THE ENGINEER.
13. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY BRACING, GUYING AND CONNECTION MEMBERS REQUIRED TO ERECT TEH STRUCTURE, MAINTAIN CORRECT ALIGNMENT AND SAFELY RESIST ALL REQUIRED COMBINATIONS OF DEAD, CONSTRUCTION, ERECTION, WIND AND OTHER LATERAL LOADS.
14. SHAPE AND SIZE GUSSET PLATES IN SUCH A MANNER AS TO CLEAR ALL ARCHITECTURAL FINISHES AND MECHANICAL FIXTURES (DUCTS, PIPES, ETC.).
15. WELDS SHALL BE MADE USING LOW-HYDROGEN ELECTRODES WITH MINIMUM TENSILE STRENGTH OF 70 KSI (E70XX ELECTRODES) UNLESS NOTED OTHERWISE.
16. WELD LENGTHS CALLED FOR ON DRAWINGS ARE THE NET EFFECTIVE LENGTH REQUIRED. WHERE LENGTH OF WELD IS NOT SHOWN IT SHALL BE THE FULL LENGTH OF JOINT.
17. ALL PARTIAL PENETRATION GROOVE WELD SIZES SHOWN ON THE DRAWINGS REFER TO THE EFFECTIVE THROAT THICKNESS.
18. FILLET WELD SIZES SHOWN ON DRAWINGS ARE MINIMUM SIZES. INCREASE WELD SIZE TO AWS MINIMUM SIZES BASED ON PLATE THICKNESSES. THE MINIMUM FILLET WELD SIZE SHALL BE 3/16".
19. THE CONTRACTOR SHALL DETERMINE THE SEQUENCE AND PROCEDURES OF WELDING TO MINIMIZE THE EFFECT WELD SHRINKAGE, RESIDUAL STRESSES AND TO MAINTAIN ERECTION TOLERANCES.
20. ALL STEEL EXPOSED TO WEATHER SHALL HAVE ADDITIONAL SEAL WELDING TO PROTECT THE MEMBERS (PIPES, TUBES, BUILT-UPS) AND THE CONNECTIONS FROM MOISTURE INFILTRATION. THESE ADDITIONAL SEAL WELDS SHALL BE SHOWN ON SHOP DRAWINGS.

TIMBER

1. MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH PROJECT CODES(S) AND STANDARD(S).

2. ALL EXPOSED GLULAM AND LVL CLT SHALL BE ARCHITECTURAL GRADE

3. GLULAM PROPERTIES (24F-V1 SP/SP), MINIMUM AS FOLLOWS:

F_{DB}* = 2400 PSI
F_{DB'} = 1750 PSI (USE BALANCED LAYUP AT CANTILEVERED BEAMS)
F_{CEX} = 650 PSI
F_W = 300 PSI
E_x = 1.7X10⁶ PSI
E_{x,MIN} = 0.9X10⁶ PSI
F₁ = 1100 PSI
F_C = 1500 PSI
G = 0.55

4. GLULAM PROPERTIES (24F-V5 SP/SP), MINIMUM AS FOLLOWS:

F_{DB}* = 2400 PSI
F_{DB'} = 24000 PSI (USE BALANCED LAYUP AT CANTILEVERED BEAMS)
F_{CEX} = 740 PSI
F_W = 300 PSI
E_x = 1.7X10⁶ PSI
E_{x,MIN} = 0.9X10⁶ PSI
F₁ = 1150 PSI
F_C = 1600 PSI
G = 0.55

5. LVL PROPERTIES (MICROLLAM 2.0E), MINIMUM AS FOLLOWS:

F_{DB} = 2600 PSI
F_{CEX} = 750 PSI
F_W = 285 PSI
E_x = 2.0X10⁶ PSI
E_{x,MIN} = 1.016535X10⁶ PSI
F₁ = 1895 PSI
F_C = 2510 PSI

6. ALL DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO PROJECT CODE(S). PROVIDE CHECKED SHOP FABRICATION AND ERECTION DRAWINGS FOR REVIEW PRIOR TO FABRICATION.
7. ALL SAWN LUMBER SHALL BE STRESS GRADED DOUGLAS FIR LARCH, UNLESS OTHERWISE NOTED. ALL 2x STUDS SHALL BE STRESS GRADED DOUGLAS FIR LARCH. PROVIDE AIR DRY LUMBER WITH 19% MAXIMUM MOISTURE CONTENT.
8. ALL WOOD IN DIRECT CONTACT WITH THE GROUND, CONCRETE OR MASONRY SHALL BE TREATED WITH A PRESERVATIVE.
9. ALL WALLS SHALL BE BOLTED TO FOUNDATIONS (CONCRETE OR CONCRETE BLOCK) WITH 5/8" DIAMETER x 12" MINIMUM ANCHOR BOLTS WITHIN 9" OF THE ENDS OF EACH WALL PANEL AND NOT MORE THAN 4'-0" ON CENTER OR (2)-5/16" MINIMUM DIAMETER SHOT PINS WITHIN 9" AND 10" RESPECTIVELY OF THE ENDS OF EACH WALL PANEL AND NOT MORE THAN 1'-6" ON CENTER MAXIMUM EXCEPT AS CALLED OUT FOR SHEAR WALLS.
10. ALL JOISTS AND RAFTERS SHALL BE BLOCKED AT SUPPORTS AND AT 8'-0" ON CENTER WITH 1X4 WOOD CROSS BRIDGING. SOLID 2X BLOCKING 2" SHALLOWER THAN JOISTS OR APPROVED METAL CROSS BRIDGING. BLOCKING AT ENDS MAY BE OMITTED WHERE JOISTS HANGERS APPROVED FOR USE WITHOUT SOLID BLOCKING ARE USED.
11. A DOUBLE PLATE MADE OF TWO MEMBERS OF THE SAME SIZE AS THE STUDS SHALL BE PLACED AT THE TOP OF EVERY BEARING PARTITION OR EXTERIOR WALL. SUCH DOUBLE PLATES SHALL BE LAPPED AT CORNER AND SPLICE JOINTS. THE UPPER AND LOWER MEMBERS AT SPLICE JOINTS SHALL BE AT LEAST FOUR FEET APART, SEE DETAIL XXXX.
12. SHEAR WALLS AND BEARING PARTITIONS SHALL BE FRAMED OF 2x6 STUDS AT 16" ON CENTER, UNLESS NOTED OTHERWISE. PROVIDE 2x SOLID BLOCKING AT MID HEIGHT OF STUD WALL (8'-0" MAX.)
13. USE DOUBLE STUDS OR 4x6 POSTS UNDER DOUBLE JOISTS OR 6x6 BEAMS, UNLESS OTHERWISE NOTED ON FRAMING PLANS.
14. ALL NAILING SCHEDULE SHALL BE DONE WITH COMMON NAILS. NAILING FOR DIAPHRAGMS AND ALL SHEAR WALLS SHALL BE INSPECTED BY THE INSPECTOR OF RECORD PRIOR TO COVERING.
15. ALL BOLTS IN WOOD SHALL BE UNFINISHED BOLTS CONFORMING TO ASTM A-307, UNLESS NOTED OTHERWISE. HOLES SHALL NOT BE MORE THAN 1/16" LARGER THAN THE BOLT DIAMETER. PROVIDE PLATE WASHERS AT ALL BOLTS.
16. PLYWOOD SHALL BE INTERIOR TYPE WITH EXTERIOR GLUE CONFORMING TO PSI-74 OF GRADE CALLED FOR BELOW AND LAID WITH FACE GRAIN PERPENDICULAR TO SUPPORTS. USE COMMON NAILS.
- A. ROOF AND FLOOR SHEATHING SHALL BE 3/4" PLYWOOD, STRUCT. I (STD.) NAILED WITH 10d NAILS AT 4" ON CENTER AT ALL DIAPHRAGM AND WALL BOUNDARIES. CONTINUOUS PANEL EDGES ARE BLOCKED. 10d NAILS AT 6" ON CENTER AT PLYWOOD PANEL EDGES AND 10d NAILS AT 12" ON CENTER TO INTERMEDIATE SUPPORTS. INDEX #48/24.
- B. PLYWOOD SHEATHING SHALL BE INSPECTED AND APPROVED BY THE INSPECTOR OF RECORD PRIOR TO COVERING WITH ROOFING MATERIAL.
- C. SOLID BLOCKING AT EDGES ARE REQUIRED FOR PLYWOOD ONLY WHERE CALLED FOR ON DRAWINGS.

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Key Plan

Description	Date
50% Design Development	02/24/20
100% Design Development	05/29/20
50% Construction Documents	11/06/20

Project

Storm King
Art Center
Pond Pavilion

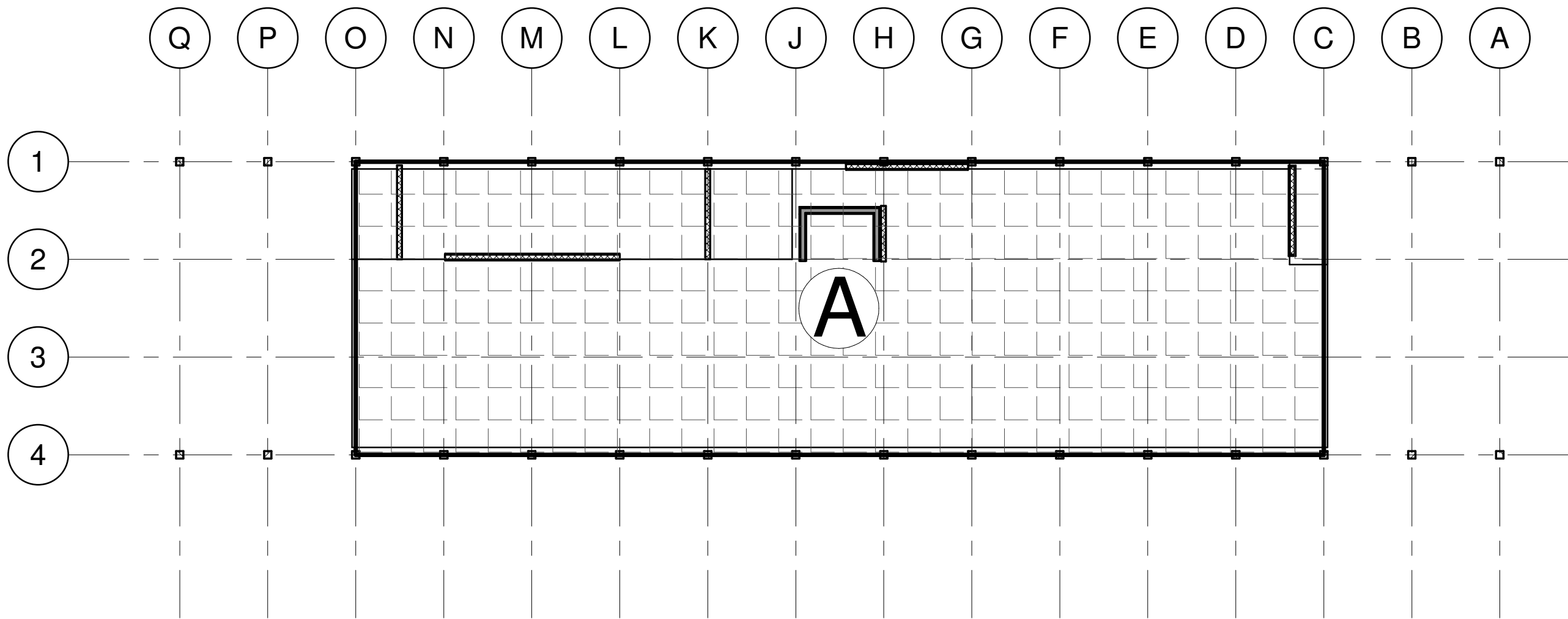
Seal

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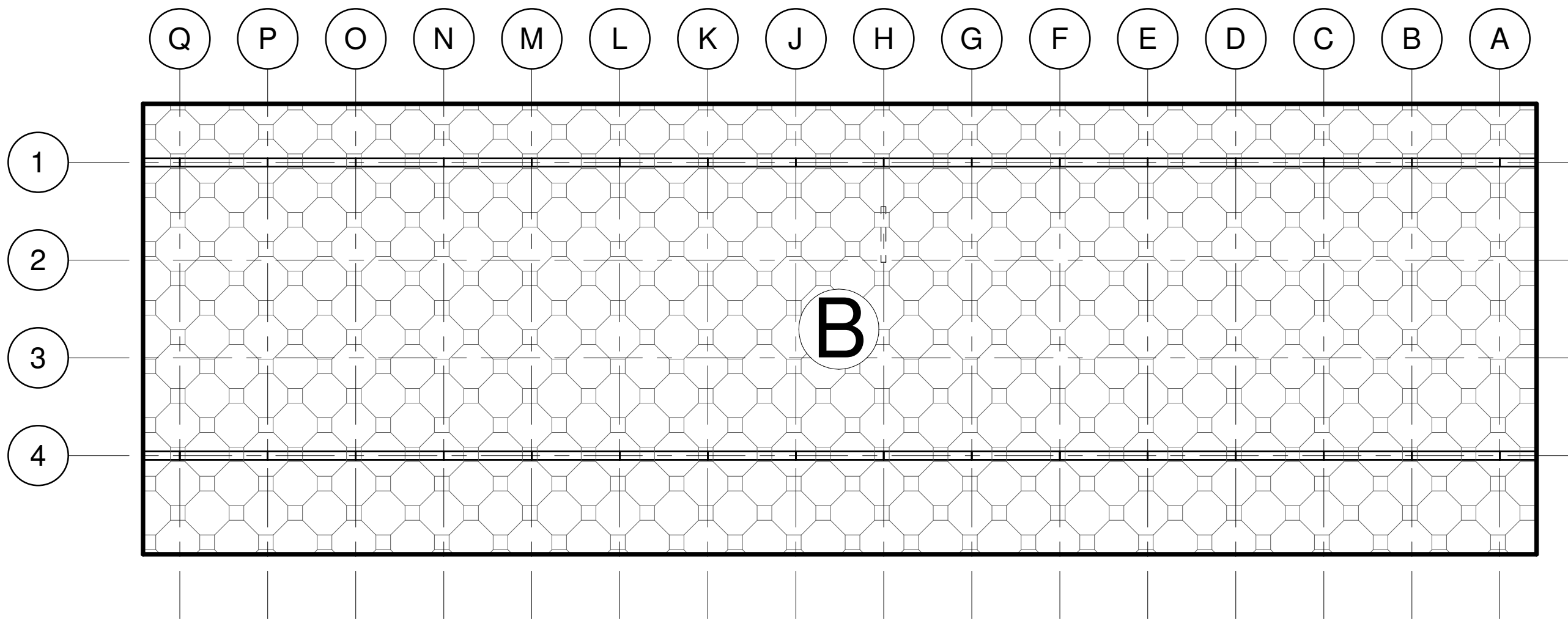
Drawing Title

Structural General
Notes, Sheet 2

Date	11/06/20
Scale	12" = 1'-0"
Drawing Number	S-P-003
Sheet Size	ARCH D



1 GROUND LEVEL
1/8" = 1'-0"



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

AREA	A	B
DESCRIPTION	GROUND	ROOF
TOTAL DEAD LOAD (PSF)	20	20
LIVE LOAD (PSF)	100	20
SNOW LOAD (PSF)	-	21

NOTE: TIMBER SELF WEIGHT INCLUDED IN TOTAL DEAD LOAD ALLOWANCE

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Key Plan

Description	Date
50% Design Development	02/24/20
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50% Construction Documents	11/06/20

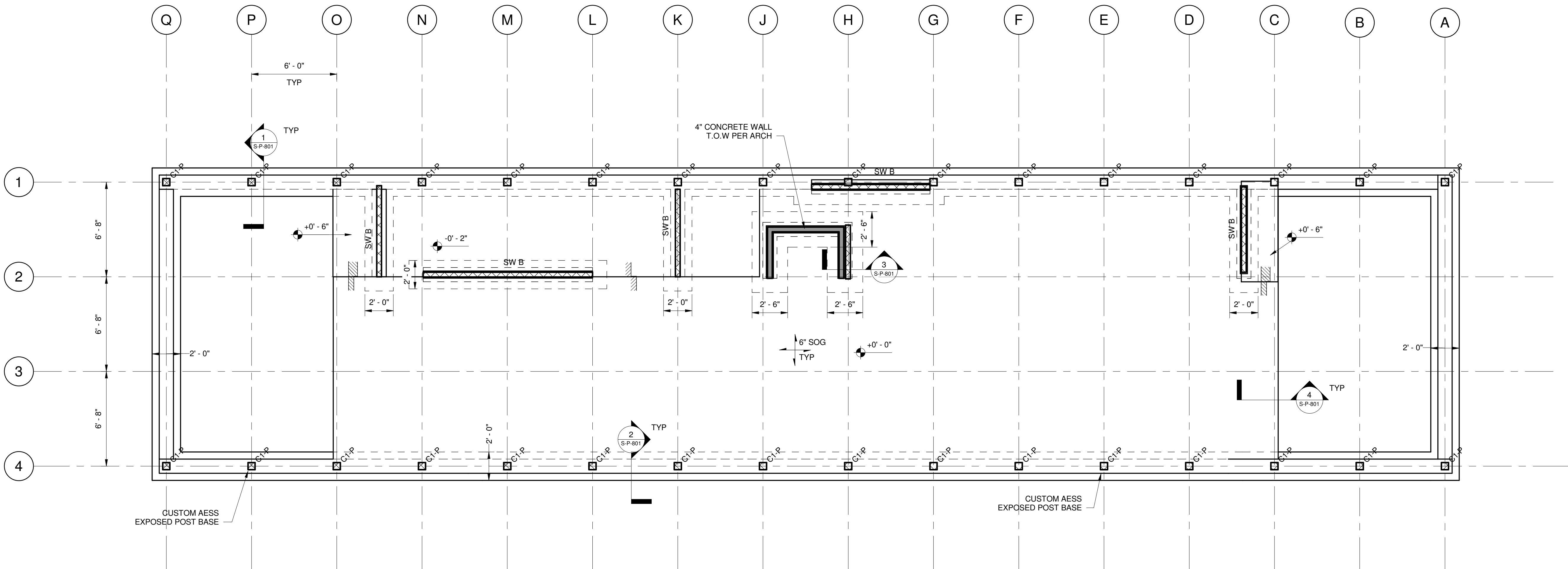
Project

Storm King
Art Center
Pond Pavilion

Seal

NOT FOR CONSTRUCTION
Drawing Title
Structural Loading
Plans

Date	11/06/20
Scale	As indicated
Drawing Number	S-P-011
Sheet Size	ARCH D



- NOTES:
- FOR GENERAL NOTES AND LOADING DIAGRAM, REFER TO DRAWINGS S-P-0XX SERIES.
 - FOR TYPICAL DETAILS, REFER TO DRAWINGS S-P-7XX SERIES.
 - B/FTG AT -3'-6" BELOW FINISHED GRADE U.N.O.
 - ALLOW FOR AESS CATEGORY 3, AS DEFINED BY AISC, WHERE AESS IS NOTED.
 - PROVIDE CURB BELOW ALL SHEAR WALLS. FOR ALL OTHER CURBS REFER TO TYPICAL DETAILS AND ARCH FOR LOCATIONS AND EXTENTS.

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Key Plan

Description	Date
50% Design Development	02/24/20
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50% Construction Documents	11/06/20

Project

Storm King Art Center Pond Pavilion

Seal

NOT FOR CONSTRUCTION
Drawing Title
Foundation Plan,
Ground Level

Date	11/06/20
Scale	As indicated
Drawing Number	S-P-101
Sheet Size	ARCH D

COLUMN SCHEDULE					
MARK	TYPE/GRADE	SPECIES/GRADE	B_NOM [IN]	D_NOM [IN]	COMMENTS
C1-P	GLULAM	24F-V5 SP/SP	6	6	

- NOTES:
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 - FOR TYPICAL DETAILS, REFER TO DRAWINGS S-P-7XX SERIES.
 - TOP OF JOIST ELEV IS BOT OF PLYWOOD SHEATHING U.N.O.
 - ALL TIMBER TO BE RATED FOR EXTERIOR EXPOSURE.
 - ALLOW FOR CUSTOM STEEL BEAM-TO-COLUMN CONNECTORS.

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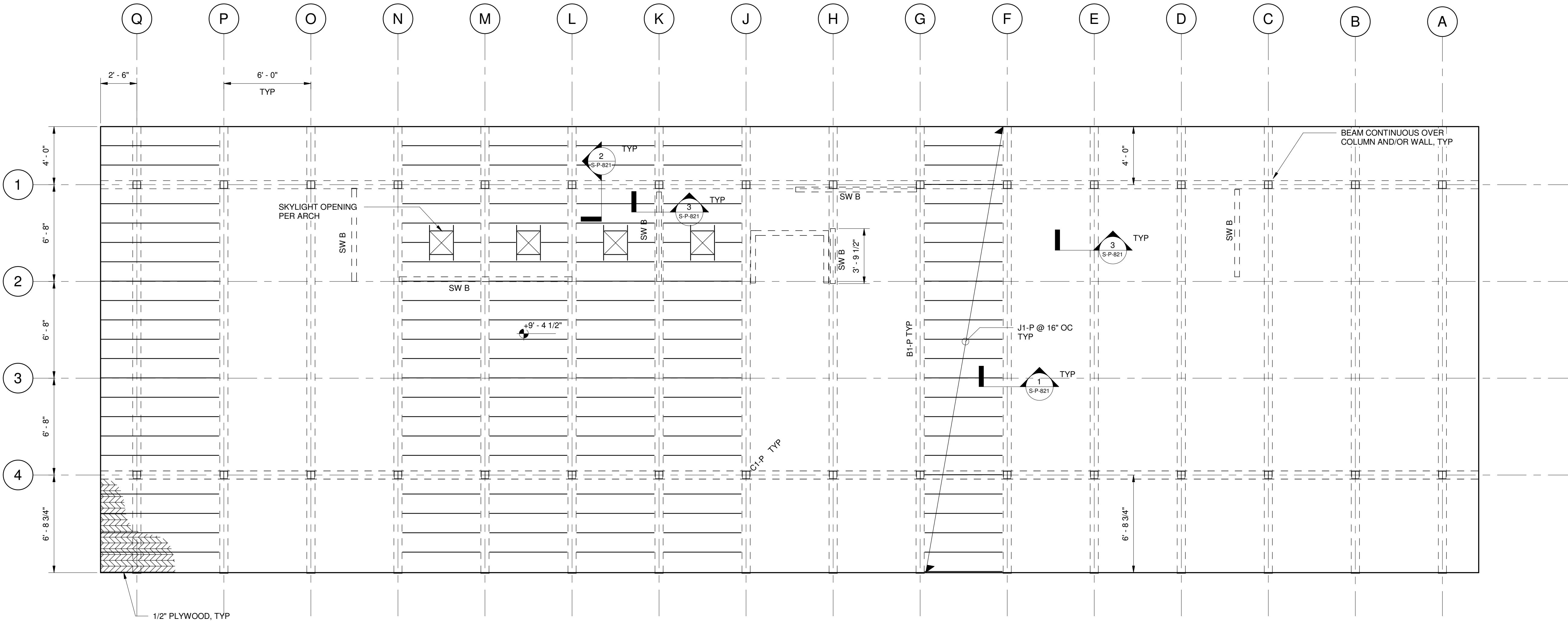
Project

Storm King Art Center Pond Pavilion

Seal

NOT FOR CONSTRUCTION
Drawing Title
Framing Plan, Roof
Level

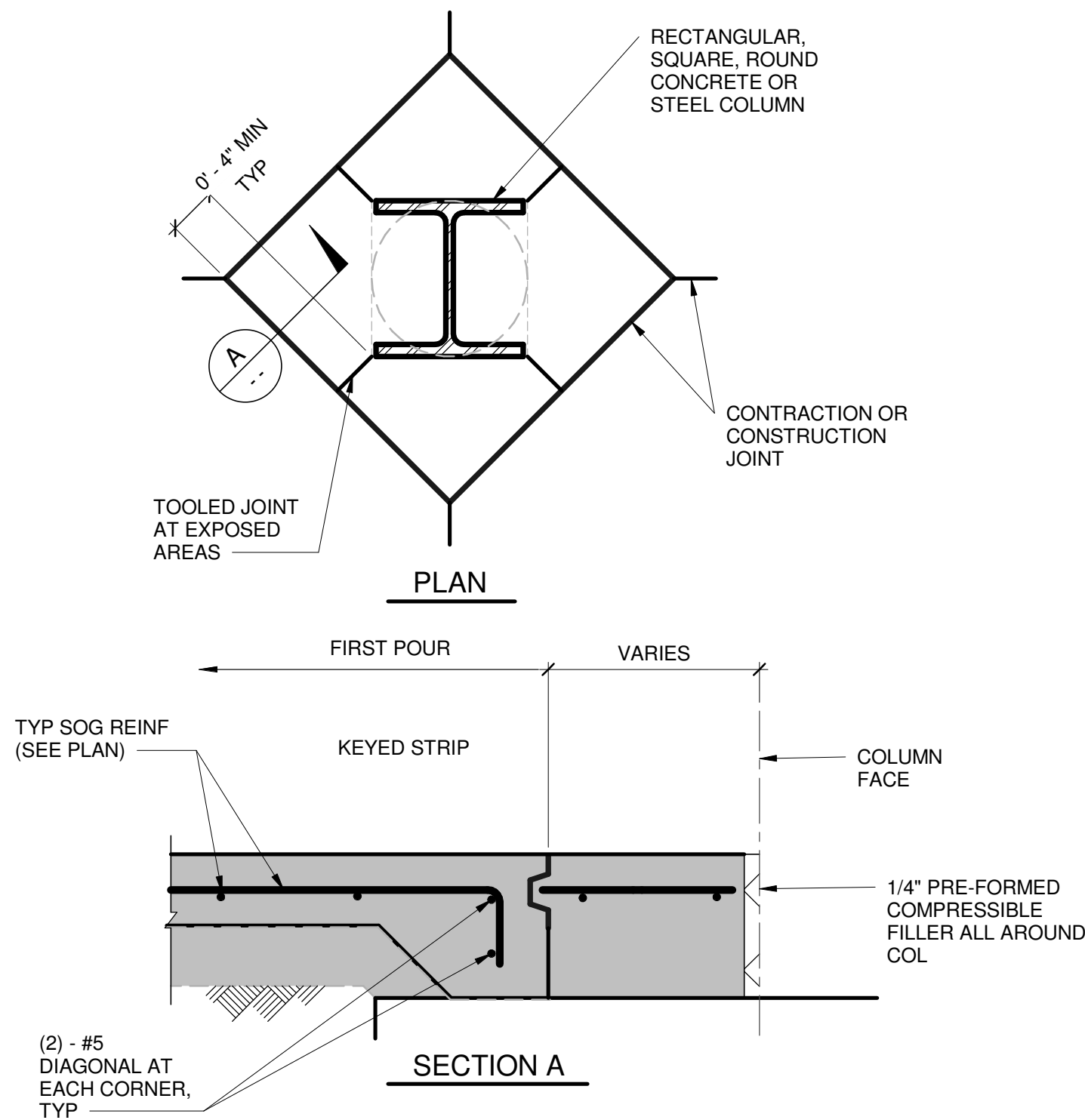
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Scale	As indicated
Drawing Number	S-P-301
Sheet Size	ARCH D



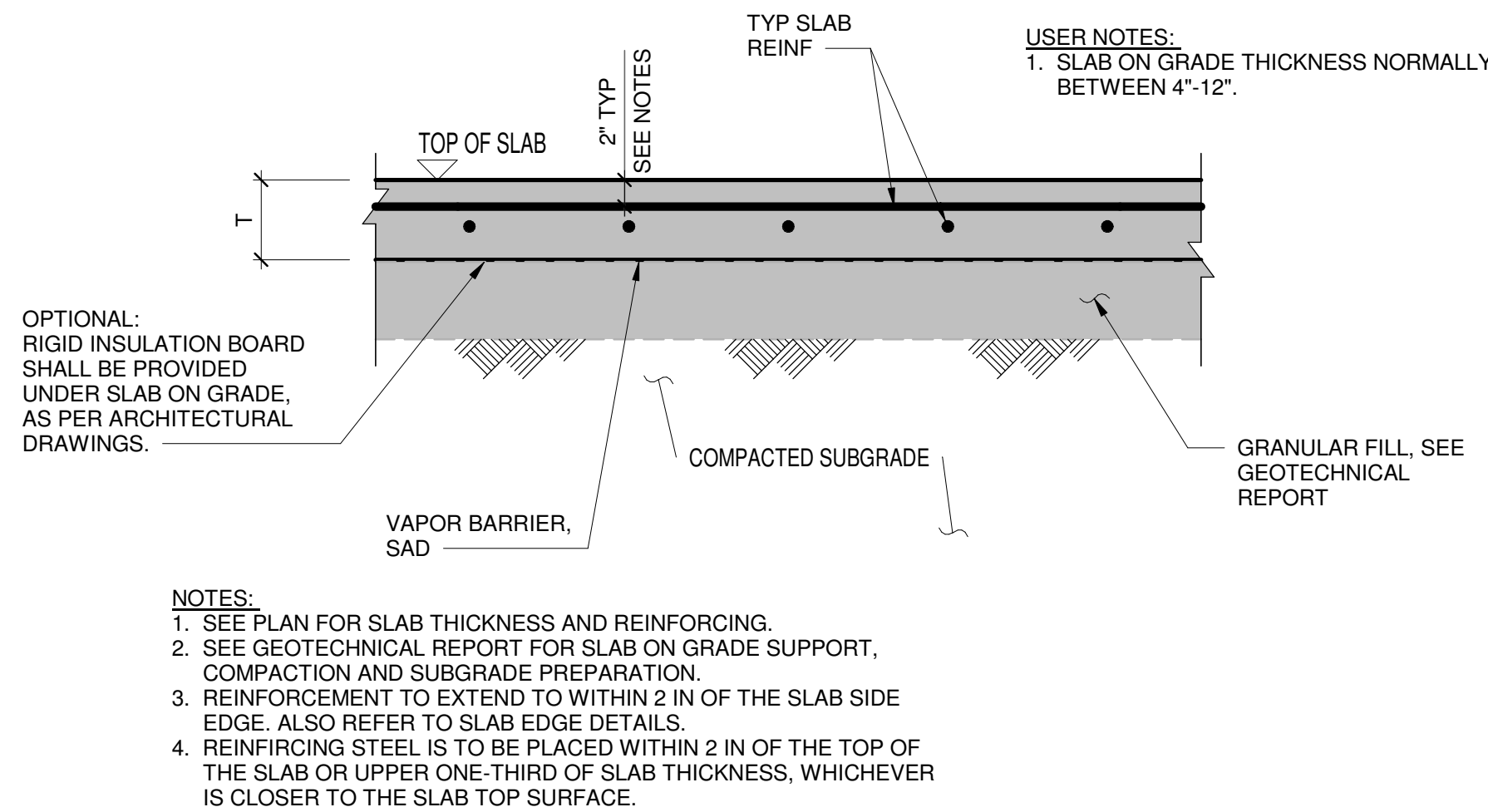
BEAM SCHEDULE					
MARK	TYPE/GRADE	SPECIES/ GRADE	B_NOM [IN]	D_NOM [IN]	COMMENTS
B1-P	GLULAM	24F-V5 SP/SP	6 3/4	10 1/2	

JOIST SCHEDULE					
MARK	TYPE/GRADE	SPECIES/GRADE	B_NOM [IN]	D_NOM [IN]	COMMENTS
J1-P	SAWN LUMBER	DOUGLAS FIR - LARCH	2	6	

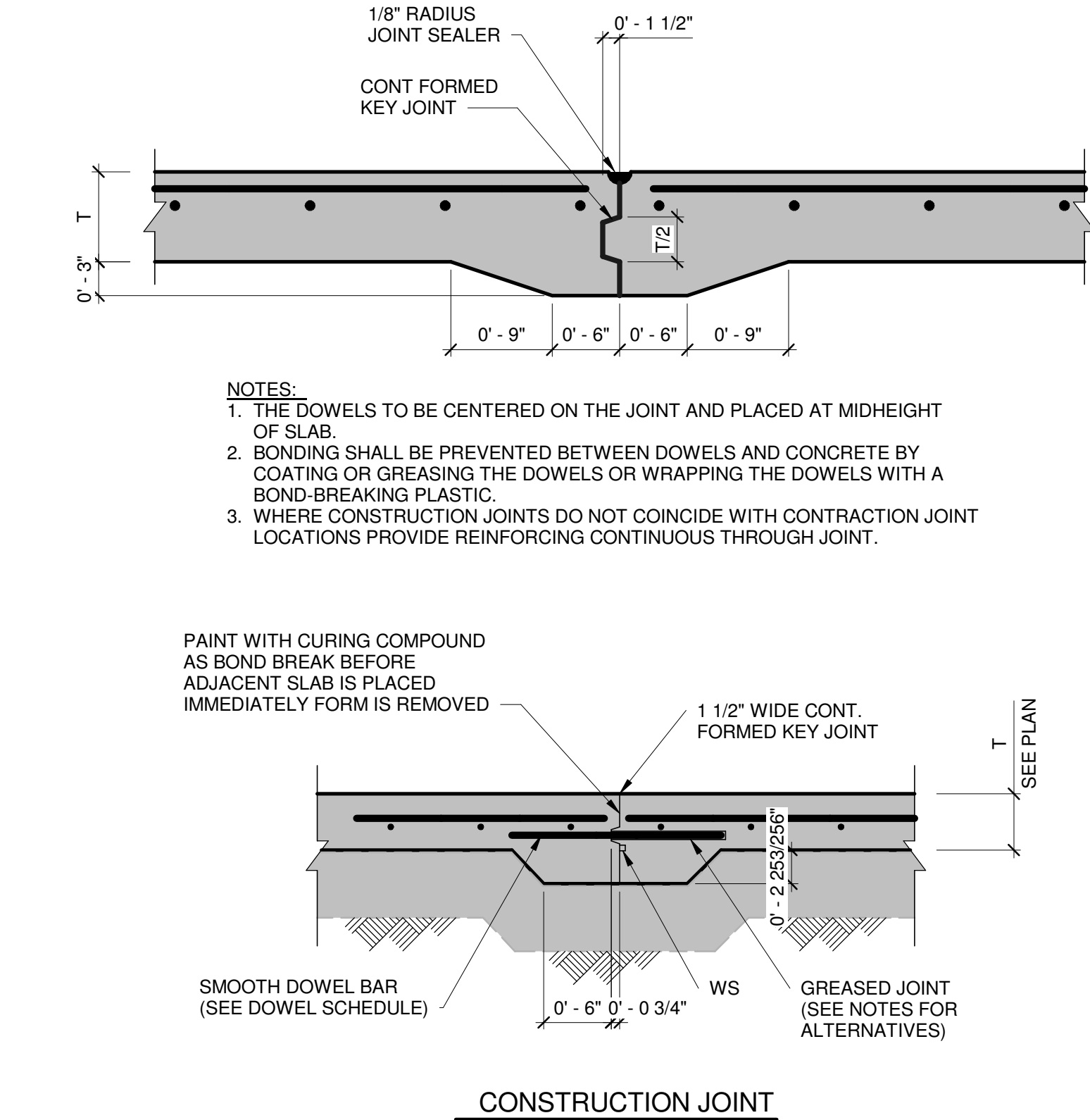
COLUMN SCHEDULE					
MARK	TYPE/GRADE	SPECIES/GRADE	B_NOM [IN]	D_NOM [IN]	COMMENTS
C1-P	GLULAM	24F-V5 SP/SP	6	6	



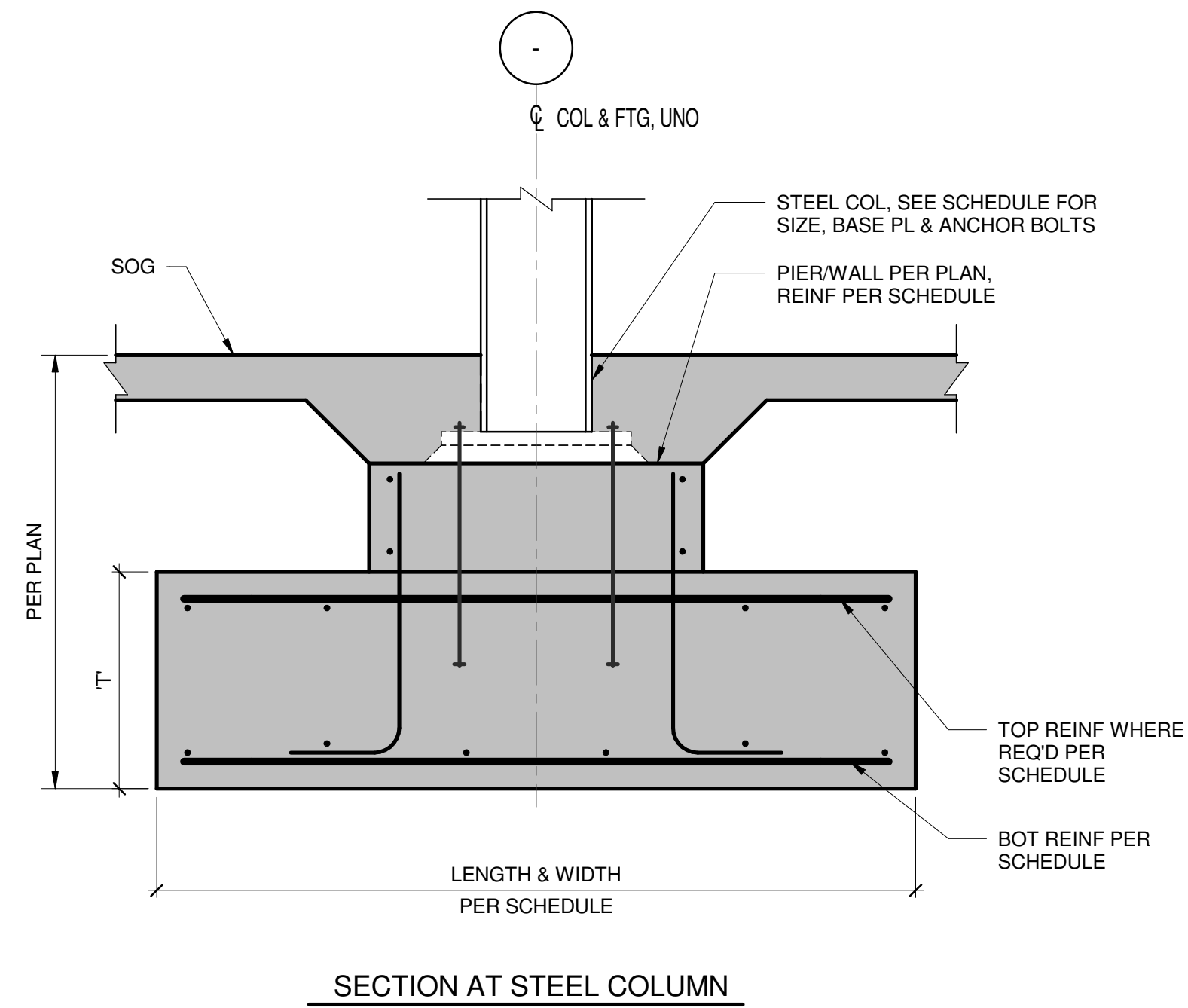
1 CONSTRUCTION JOINTS AT COLUMN SLAB ON GRADE
1" = 1'-0"



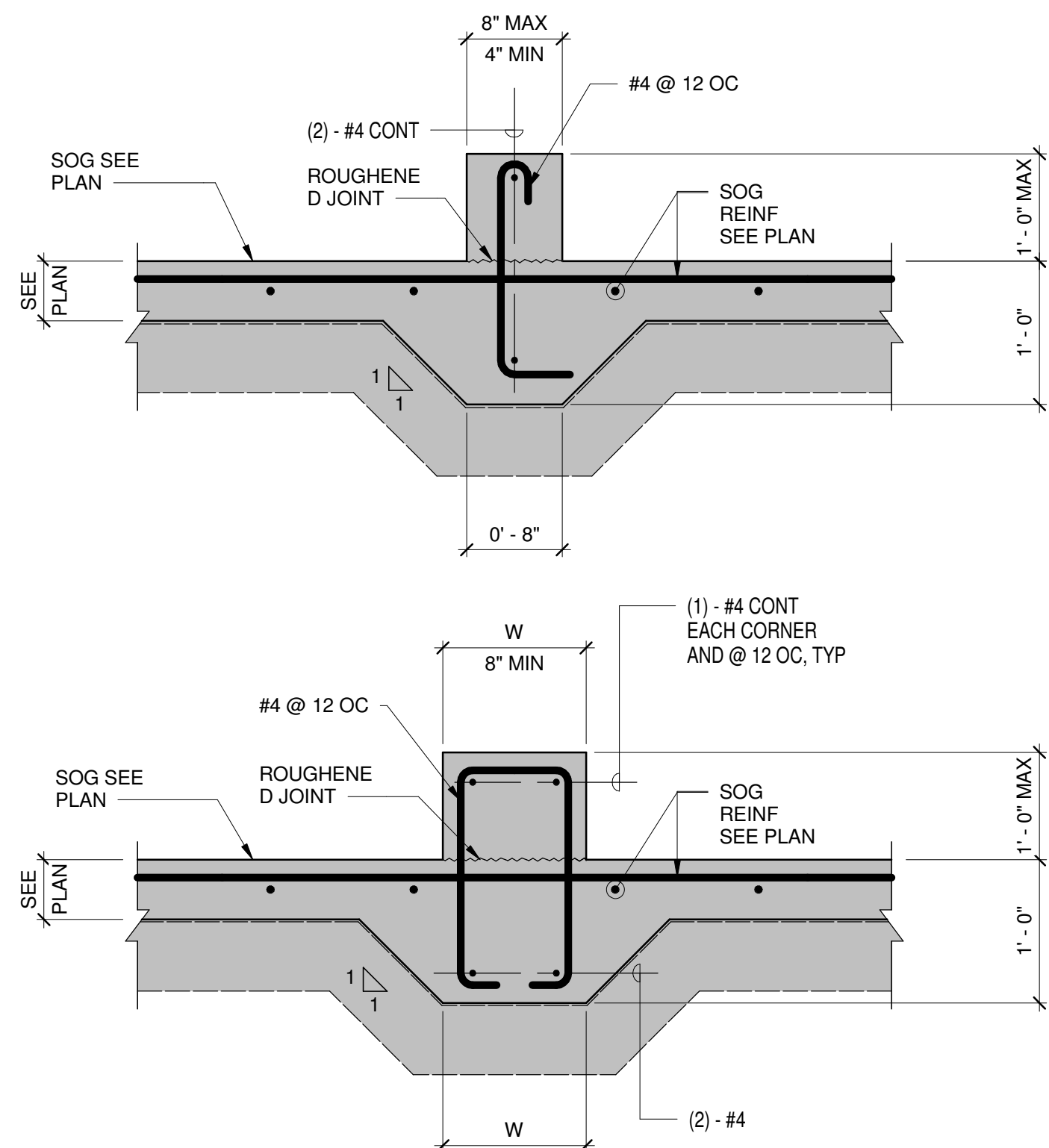
2 TYPICAL SLAB ON GRADE
1" = 1'-0"



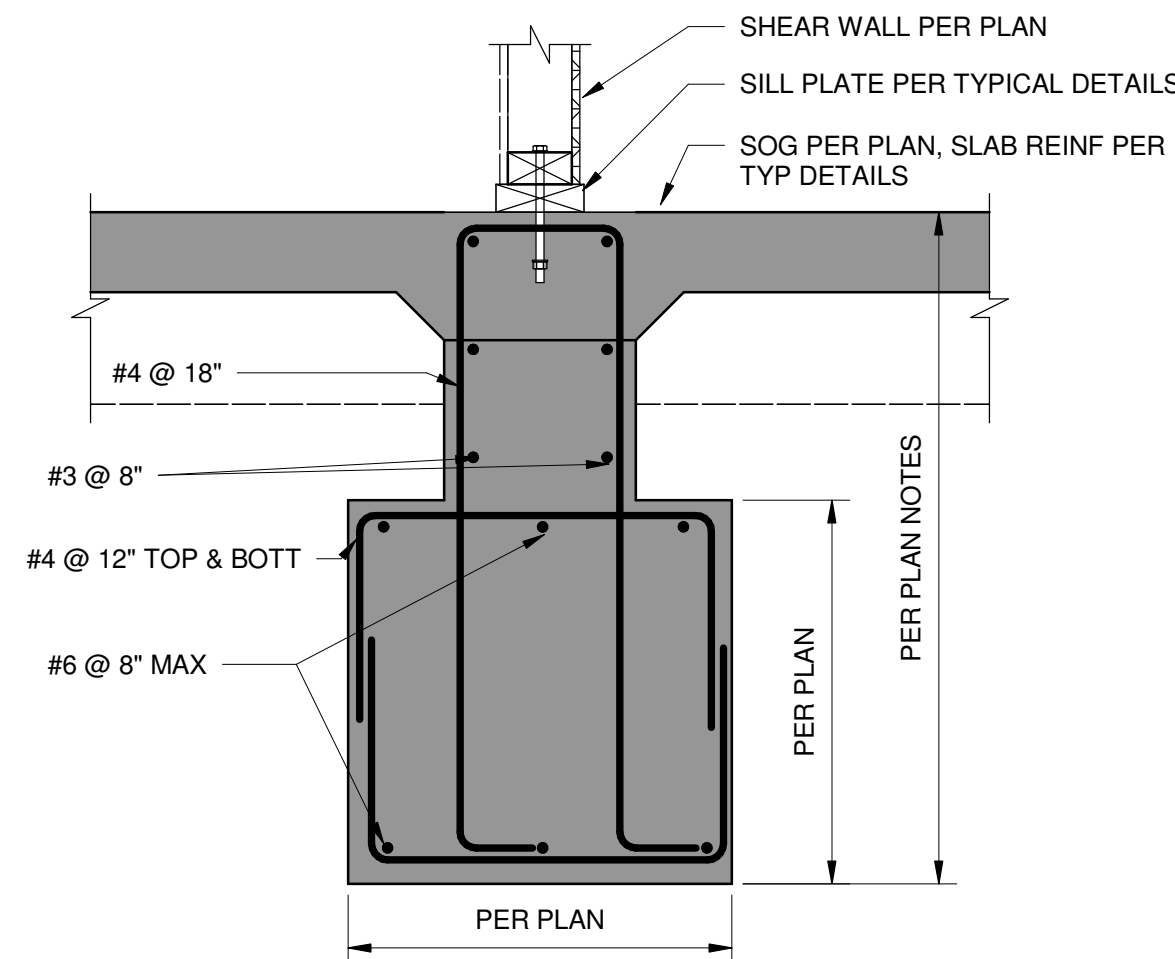
3 TYPICAL SLAB ON GRADE CONTROL AND CONSTRUCTION JOINTS
1" = 1'-0"



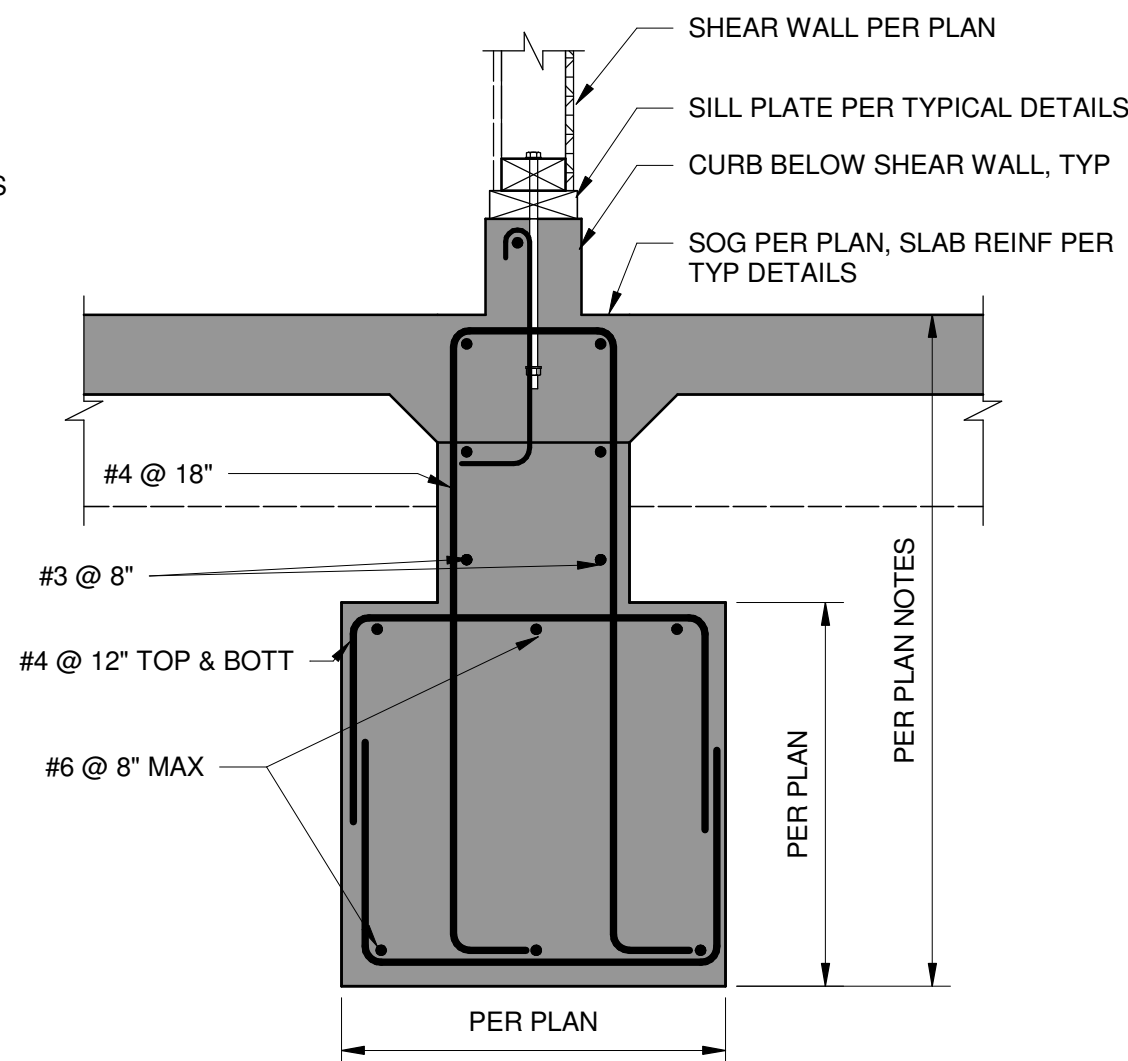
4 TYPICAL SPREAD FOOTING DETAILS
3/4" = 1'-0"



5 TYPICAL CONCRETE CURB ON GRADE
1" = 1'-0"



6 TYP FOOTING AT SHEAR WALL
1" = 1'-0"



7 TYP FOOTING AT SHEAR WALL WITH CURB
1" = 1'-0"

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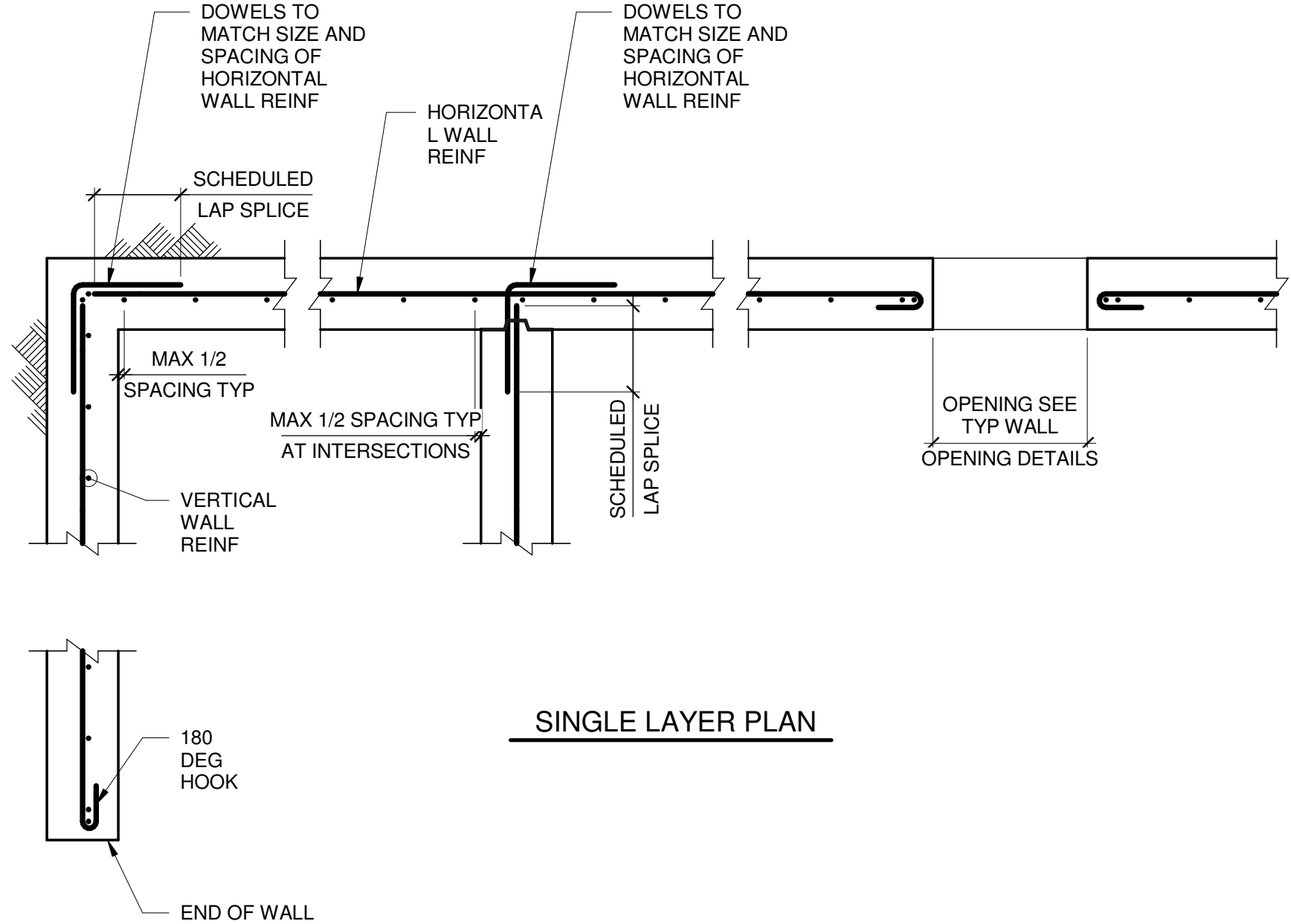
Project

Storm King Art Center Pond Pavilion

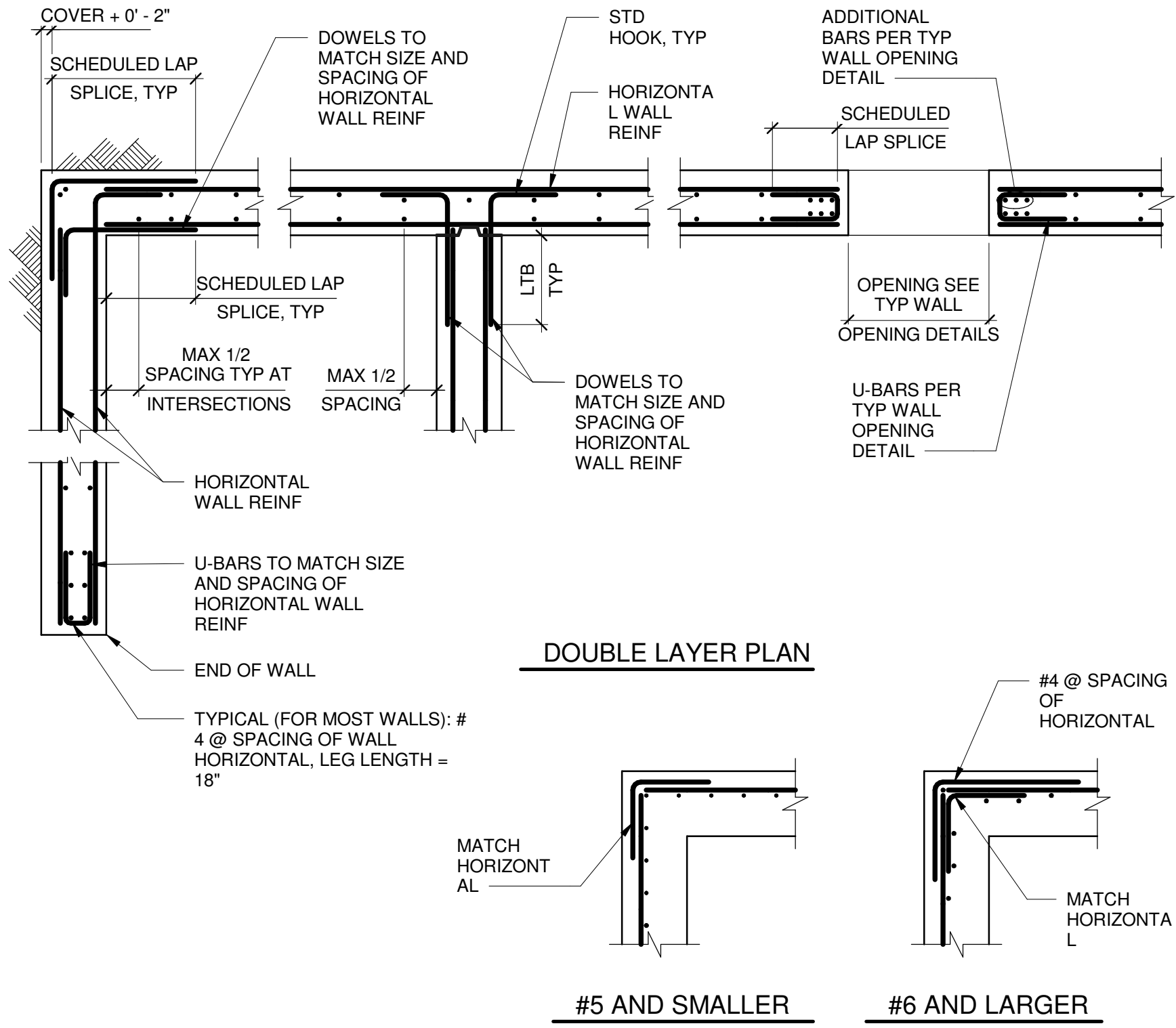
Seal

NOT FOR CONSTRUCTION
Drawing Title
Structural Typ Foundation Details

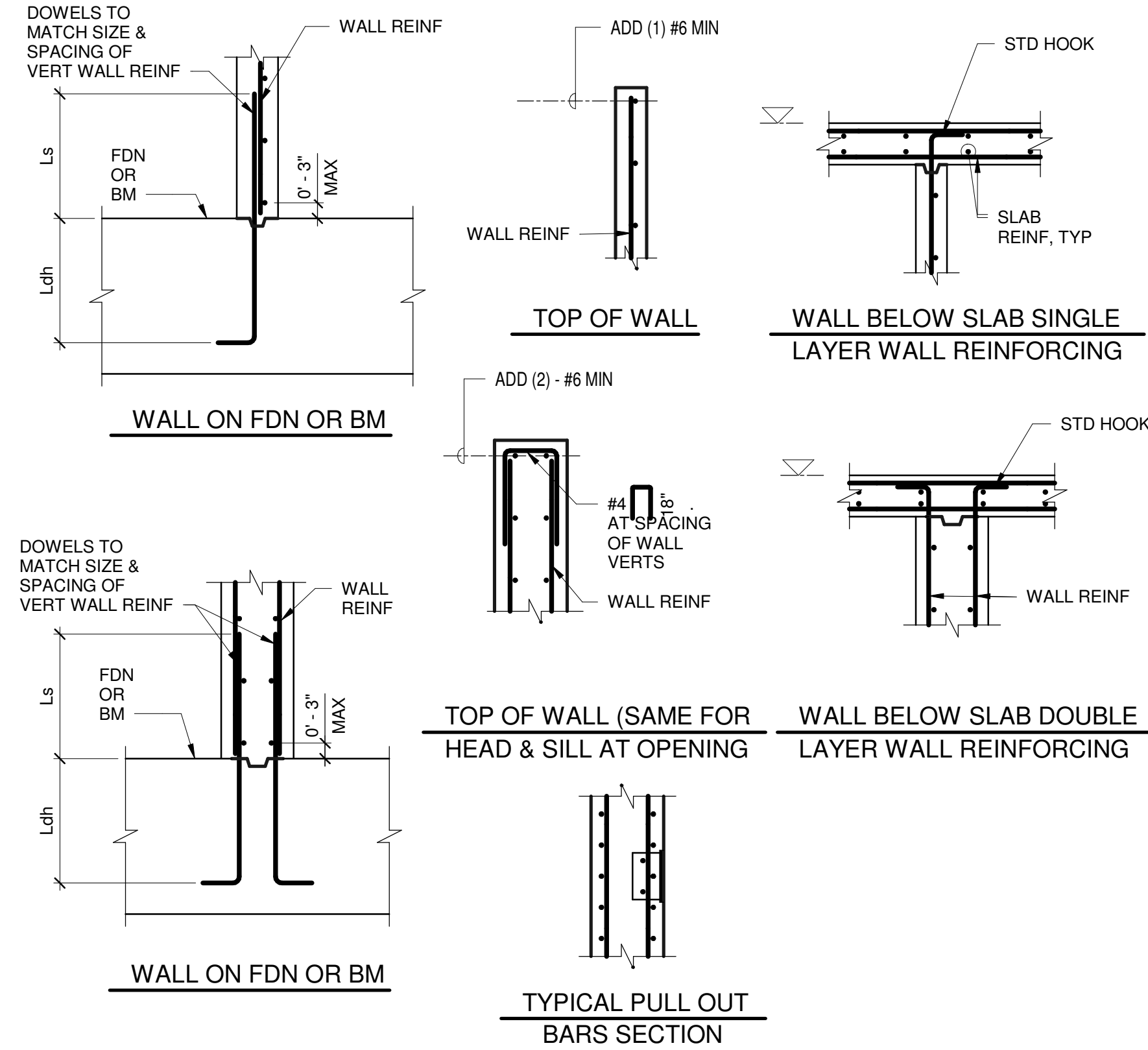
Date	11/06/20
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Drawing Number	S-P-701
Sheet Size	ARCH D



1 TYPICAL WALL REINFORCING DETAIL
1/2" = 1'-0"



2 TYPICAL WALL REINFORCING DETAIL
1/2" = 1'-0"



3 TYPICAL CONCRETE WALL REINFORCING SECTIONS
1/2" = 1'-0"

Owner
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Key Plan



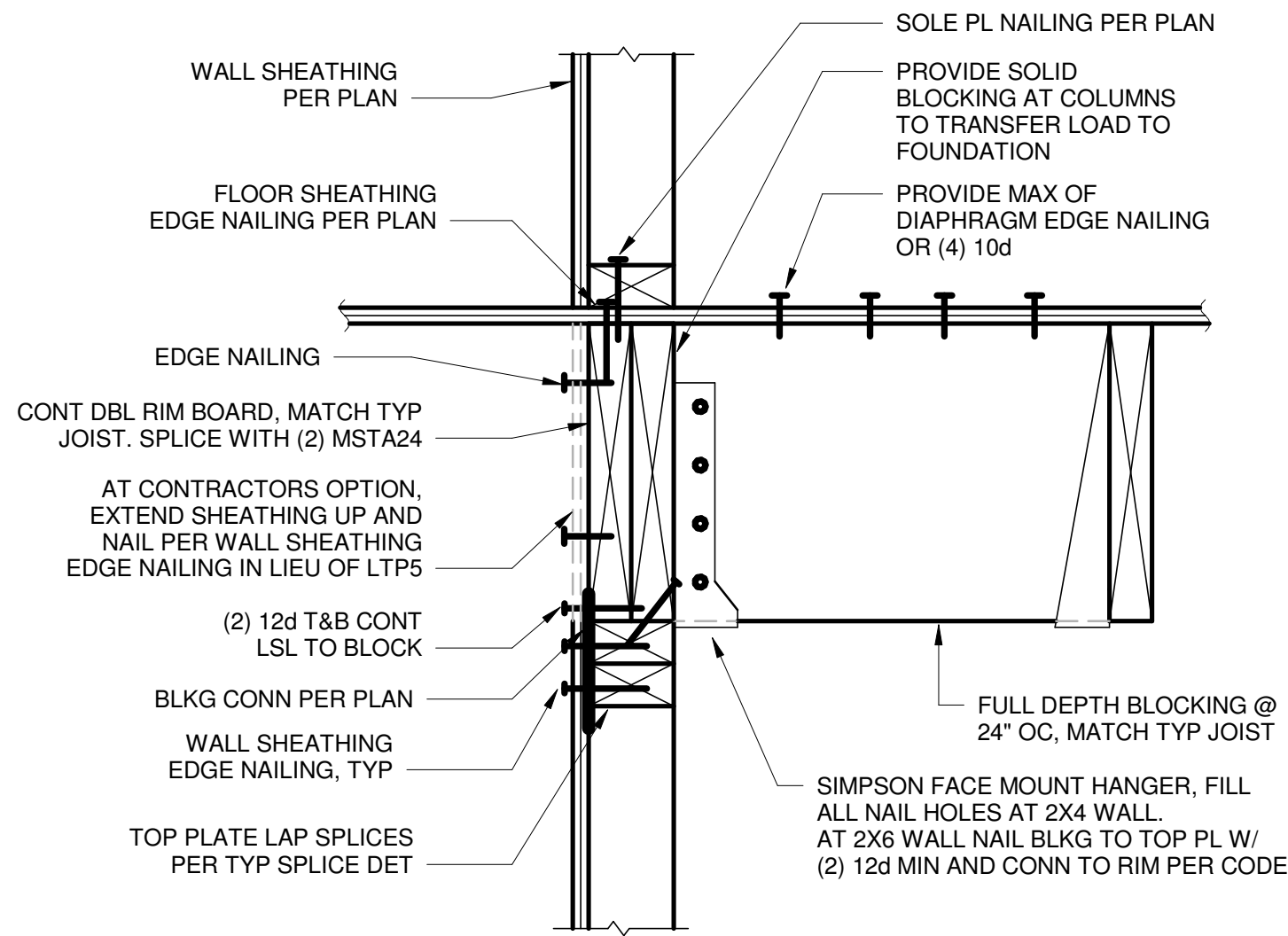
Description	Date
50% Construction Documents	11/06/20

Project
Storm King
Art Center
Pond Pavilion

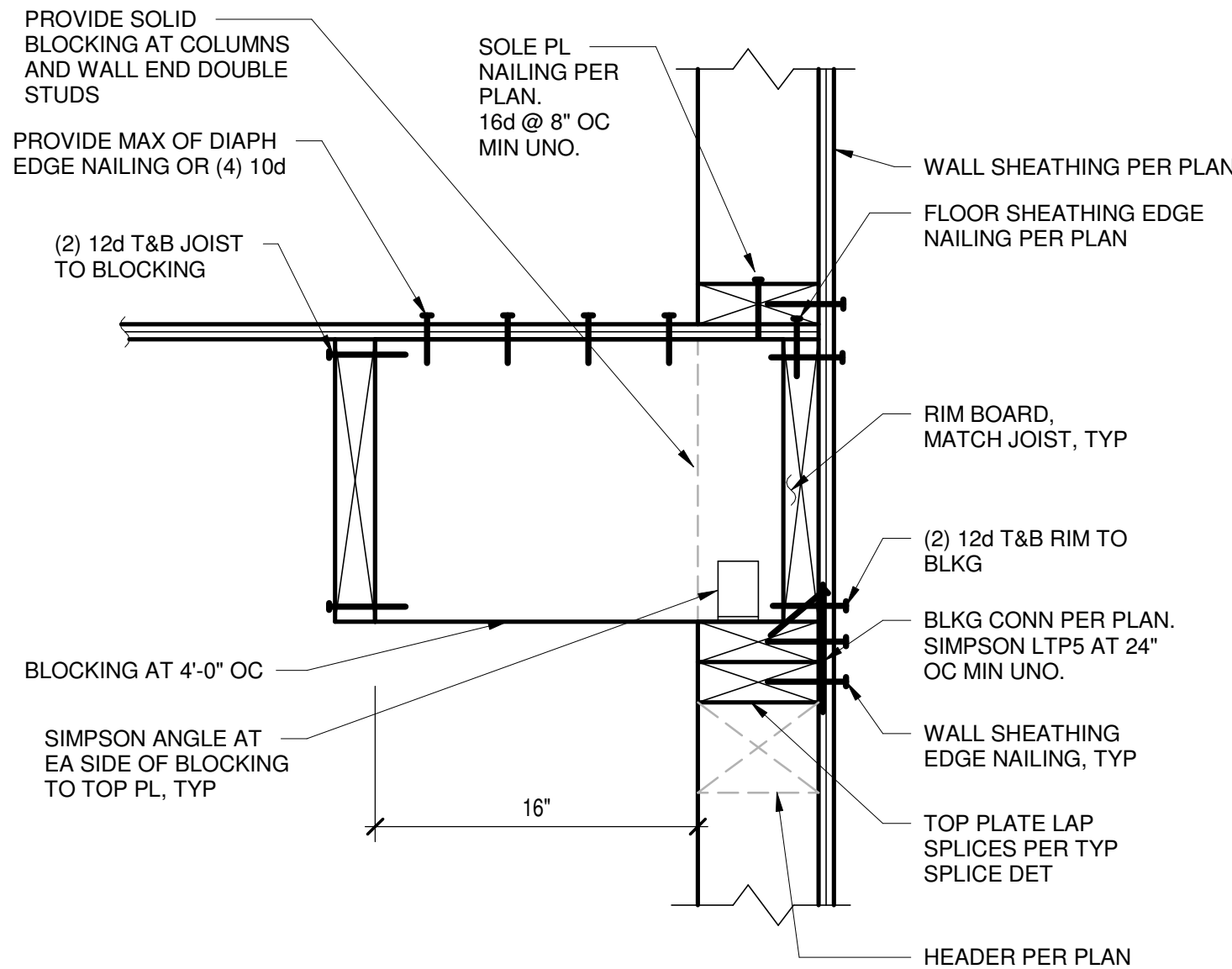
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Drawing Title
Structural Typ
Concrete Details

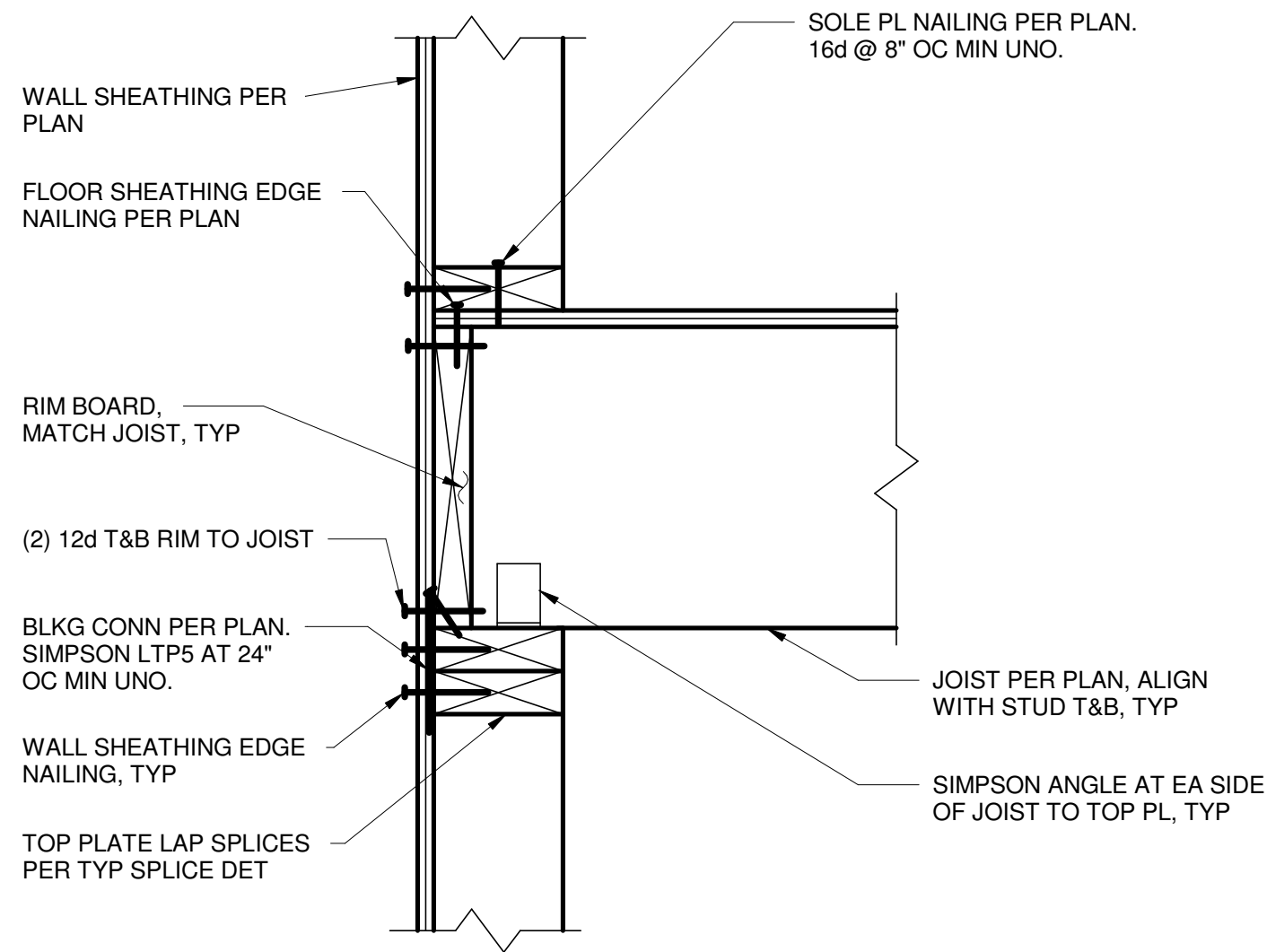
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Drawing Number	S-P-702
Sheet Size	ARCH D



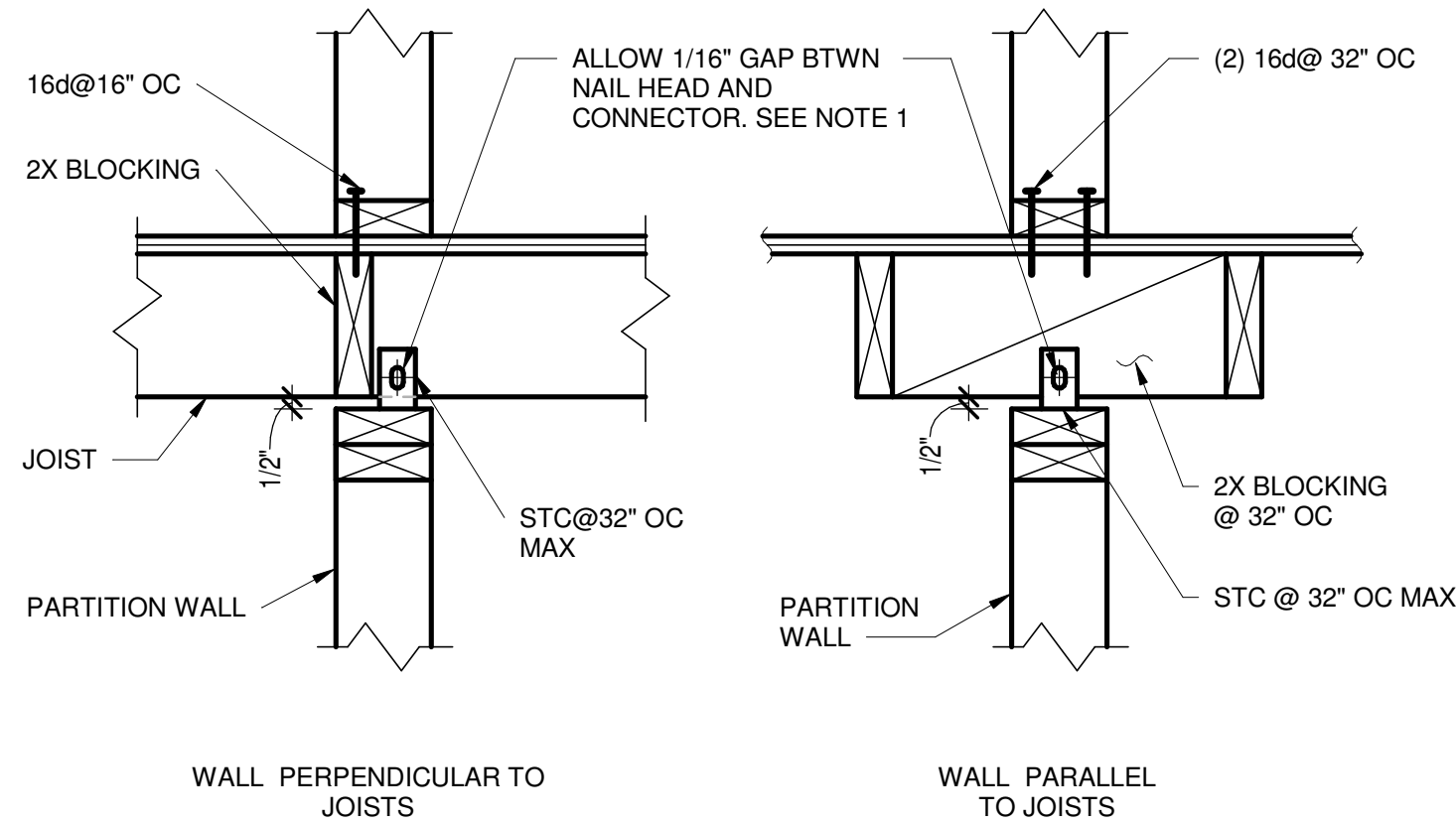
1 TYP DETAIL AT JOIST PARALLEL TO SHEAR WALL
1 1/2" = 1'-0"



2 TYP JOIST PARALLEL TO EXT WALL
1 1/2" = 1'-0"



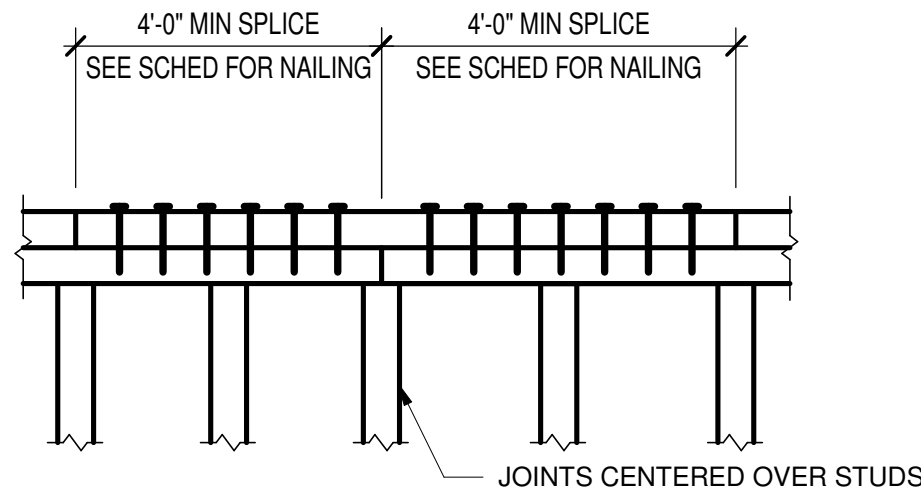
3 TYP JOIST PERPENDICULAR TO EXT WALL
1 1/2" = 1'-0"



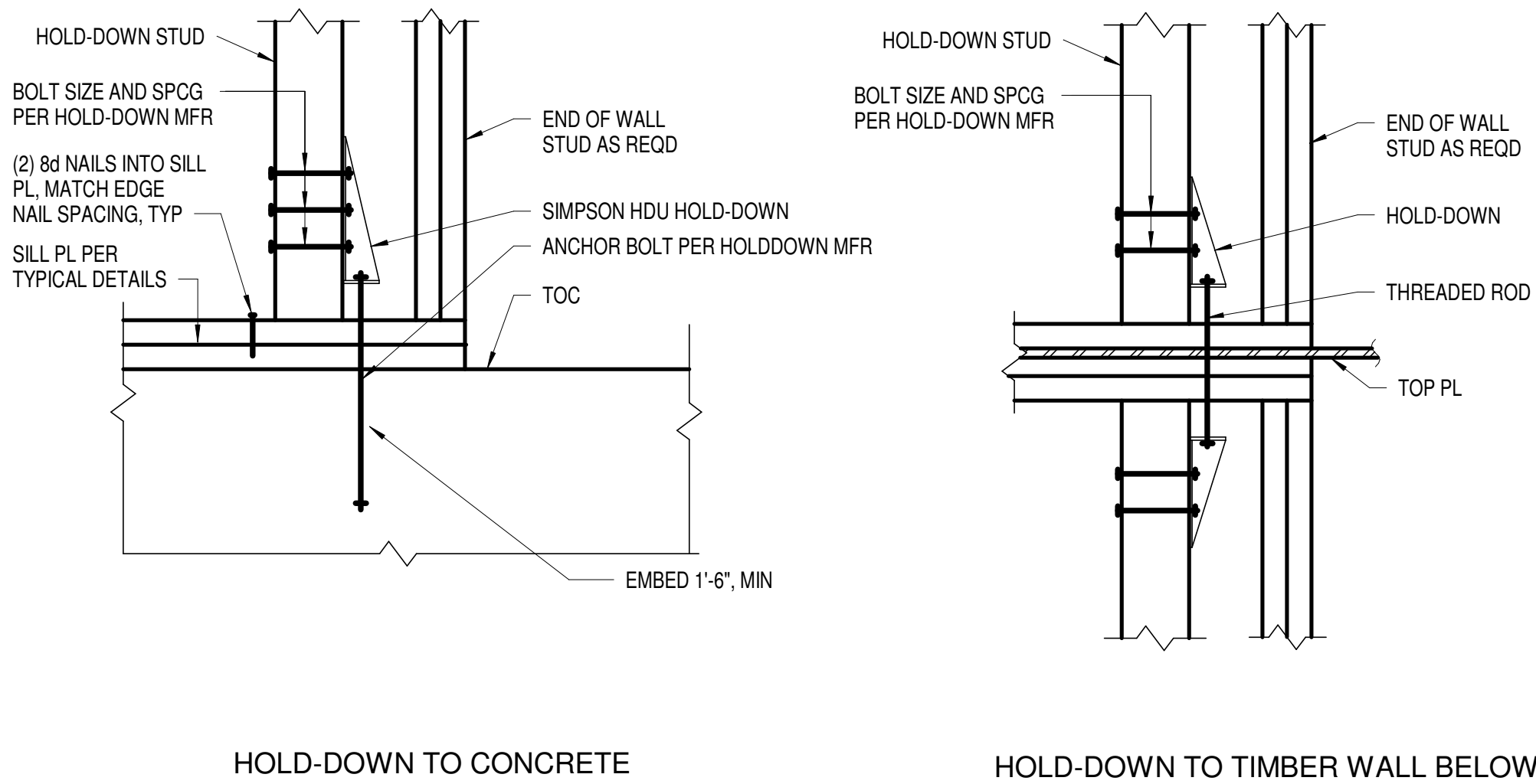
NOTES:

1. CONTRACTOR TO CHECK THAT CONNECTION DOES NOT SQUEAK WITH VERTICAL MOVEMENT.

MINIMUM NUMBER OF NAILS PER SPLICE LENGTH		
STUD SIZE	BEARING WALL OR SHEAR WALL/DAG STRUT	NON-BEARING NON-SHEAR WALL
2X4	22	16d@16" OC
2X6, 2X8	34	16d@16" OC
3X4	36	16d@12" OC
3X6, 3X8	60	16d@12" OC

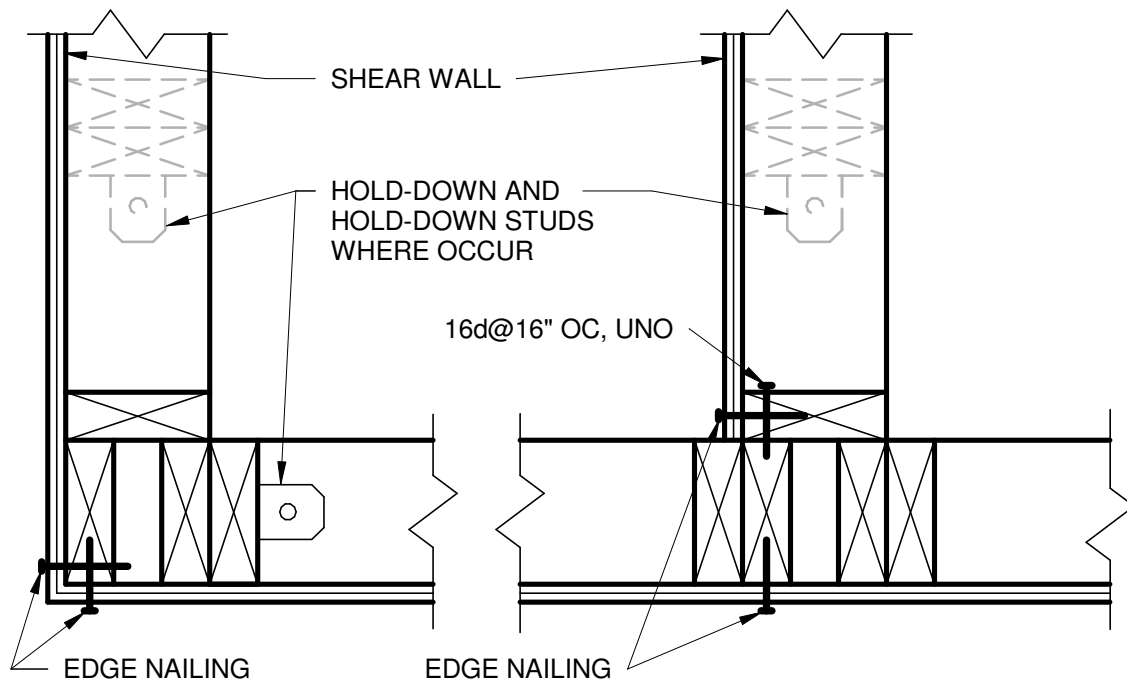


4 TYP PARTITION (NON-BEARING NON SHEAR WALL) CONN TO FLOOR
1 1/2" = 1'-0"



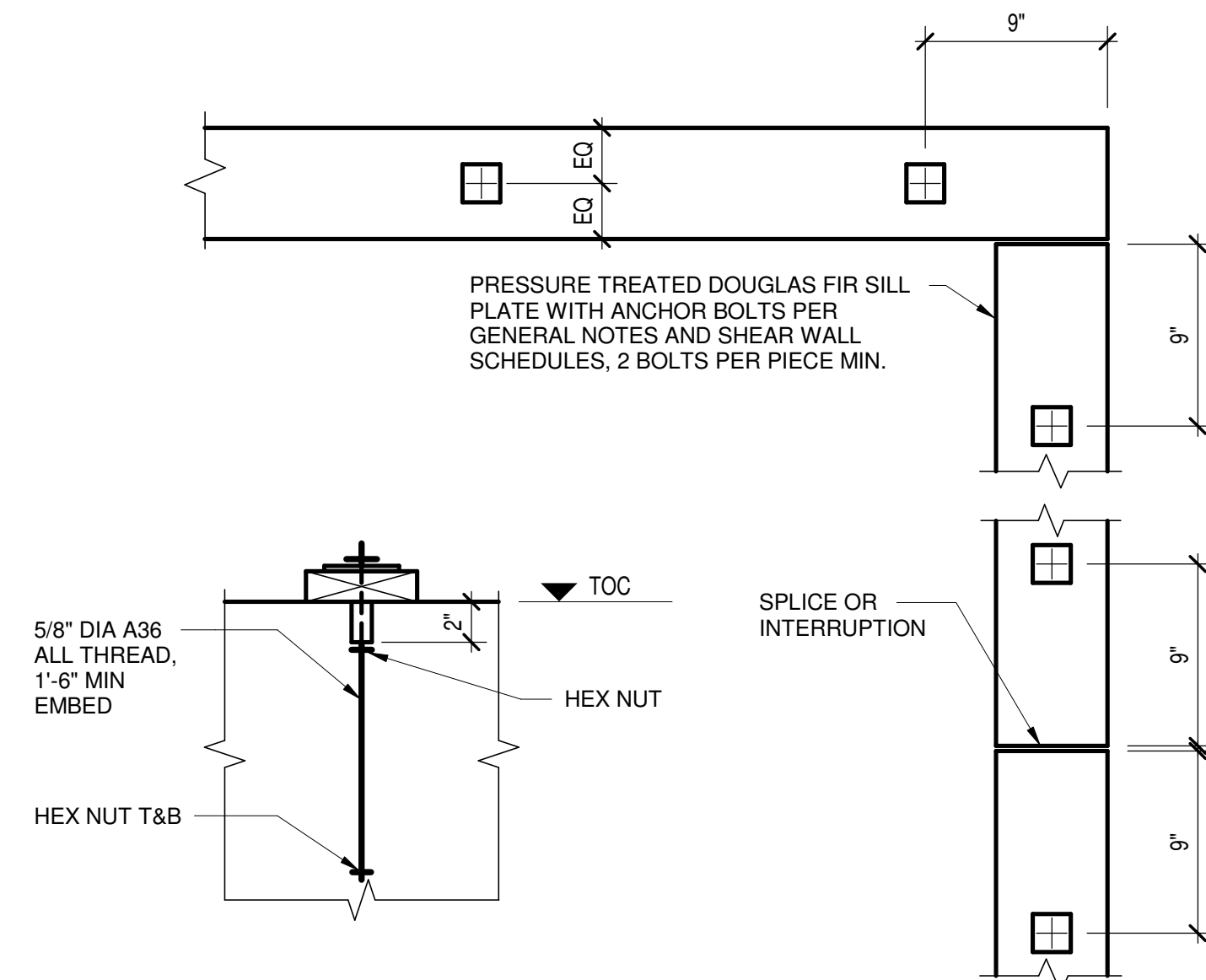
6 TYPICAL HOLDOWN DETAILS AND SCHEDULE
1" = 1'-0"

5 TYPICAL TOP PLATE/DAG STRUT SPLICE
1 1/2" = 1'-0"



NOTES:

1. SEE PLANS FOR HOLD-DOWN LOCATIONS OTHER THAN ENDS OF WALLS.
2. ALL HOLD DOWNS TO BE HDU4-SD2.5 U.N.O.
3. ALL ANCHOR BOLTS TYPICAL A307.
4. INSTALL PER SIMPSON STRONG TIE SPECIFICATIONS. VERTICAL WOOD MEMBER SHALL BE (2) 3X STUDS AT SHEAR WALLS WITH 3X STUDS.



NOTES:

1. CONTRACTOR SHALL LOCATE ANCHOR TO MISS STUDS, POSTS, MULLIONS ETC.
2. A MINIMUM OF 3/4 INCH THREAD ENGAGEMENT INTO COUPLING NUT IS REQUIRED.

7 TYPICAL WOOD SILL PLATE
1 1/2" = 1'-0"

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Key Plan

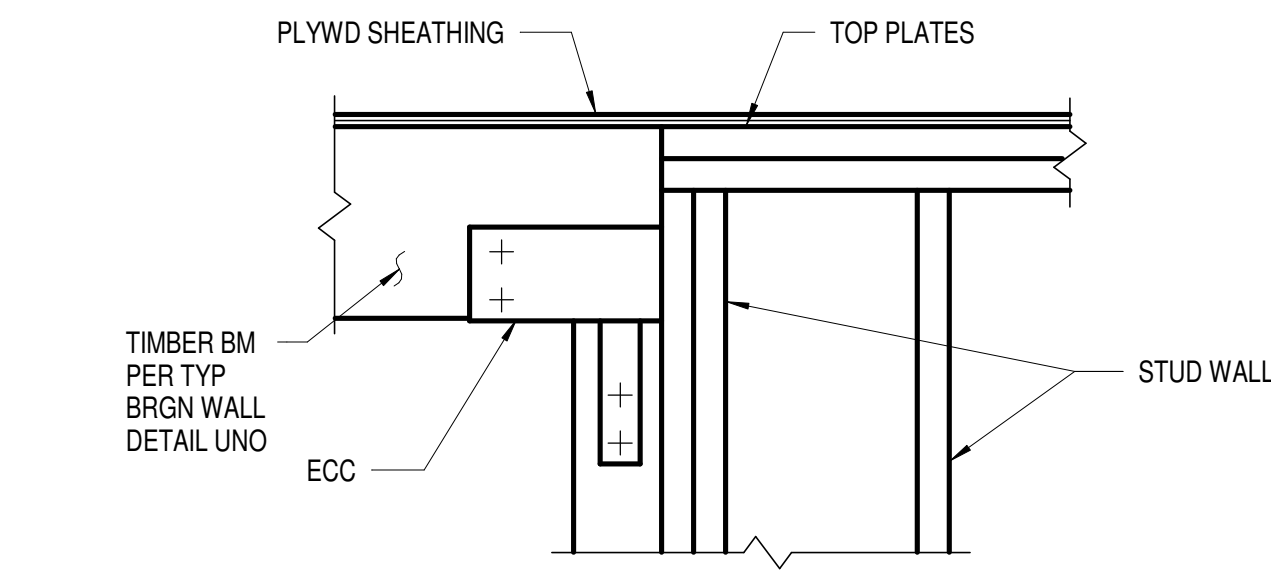
Description	Date
50% Design Development	02/24/20
100% Design Development	05/29/20
50% Construction Documents	11/06/20

Project
Storm King
Art Center
Pond Pavilion

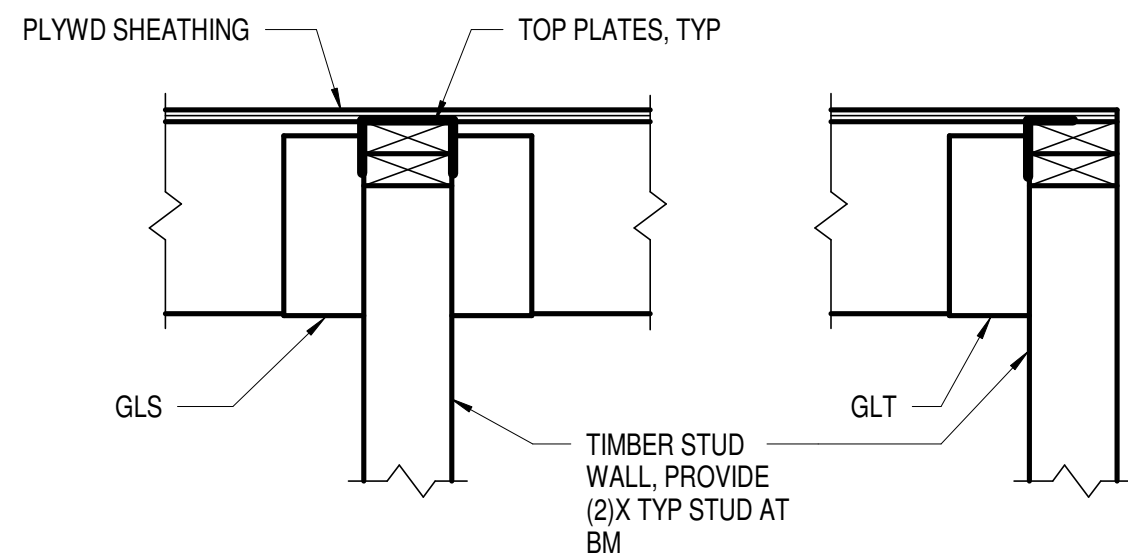
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NOT FOR CONSTRUCTION
Drawing Title
Structural Typ Timber
Details, Sheet 1

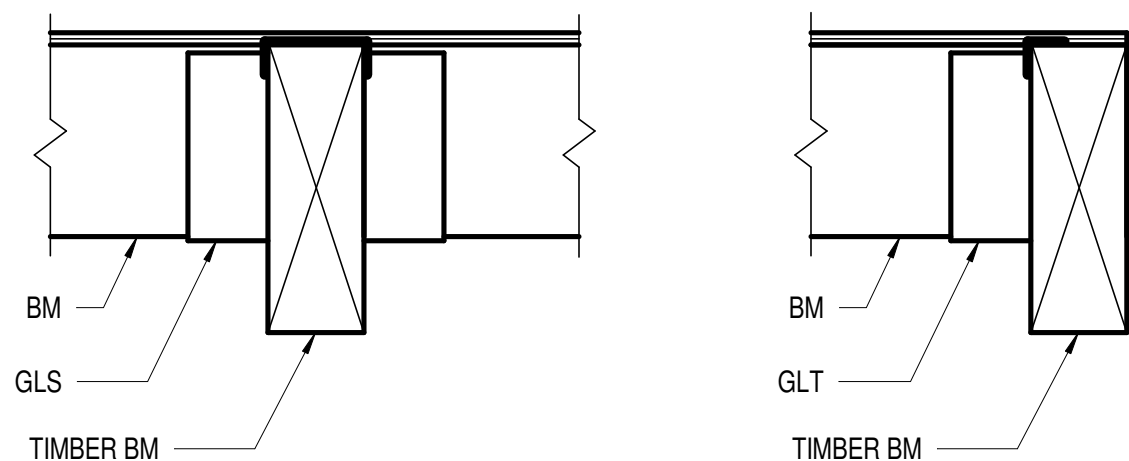
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Drawing Number	S-P-721
Sheet Size	ARCH D



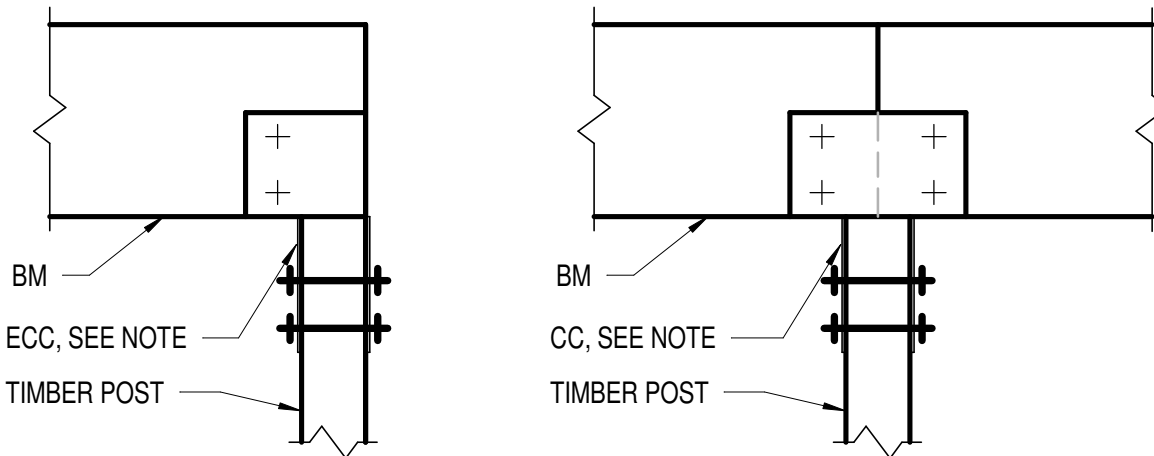
1 TYP TIMBER BM TO END OF STUD WALL
1" = 1'-0"



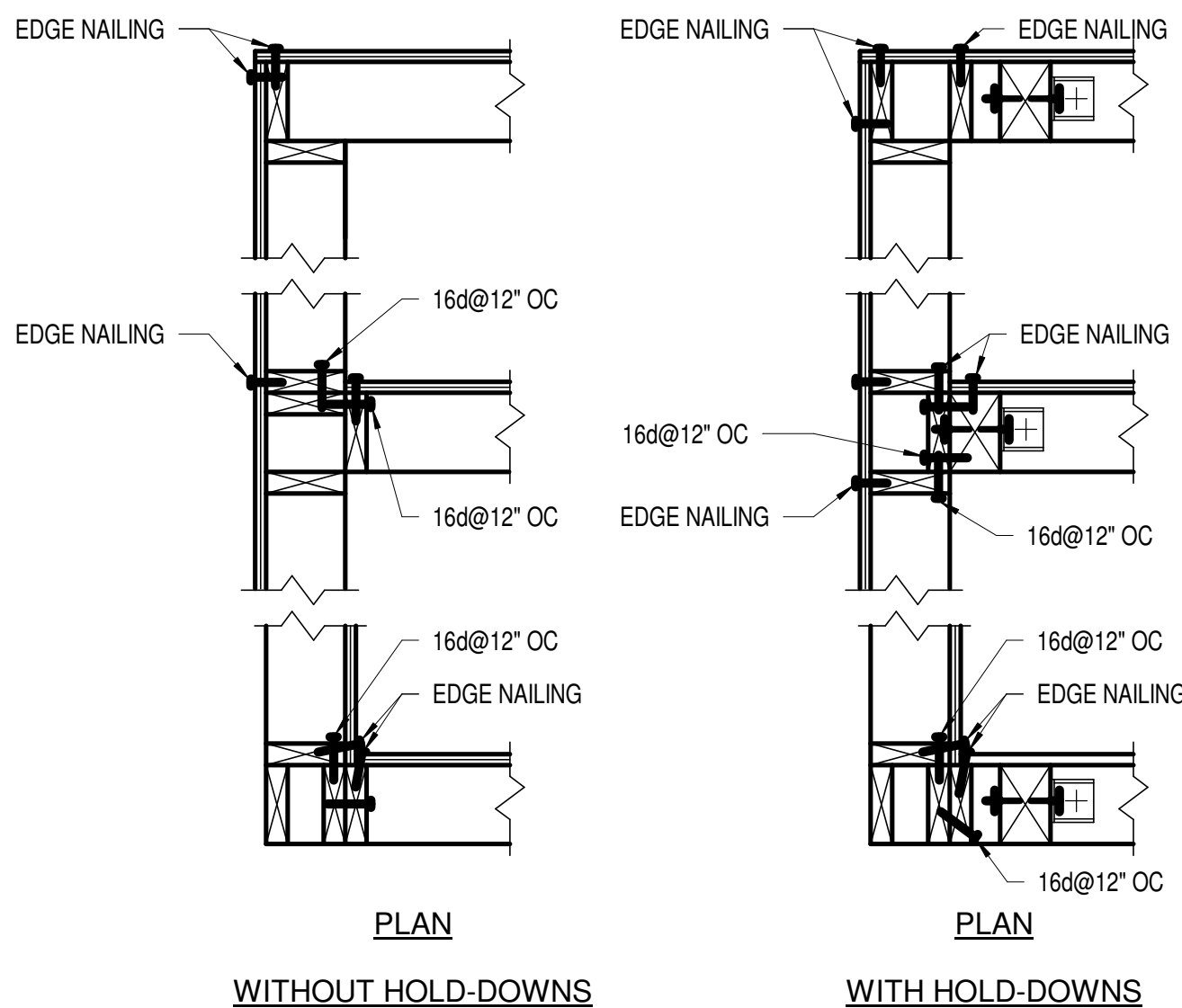
2 TYP TIMBER BM TO SIDE OF STUD WALL
1" = 1'-0"



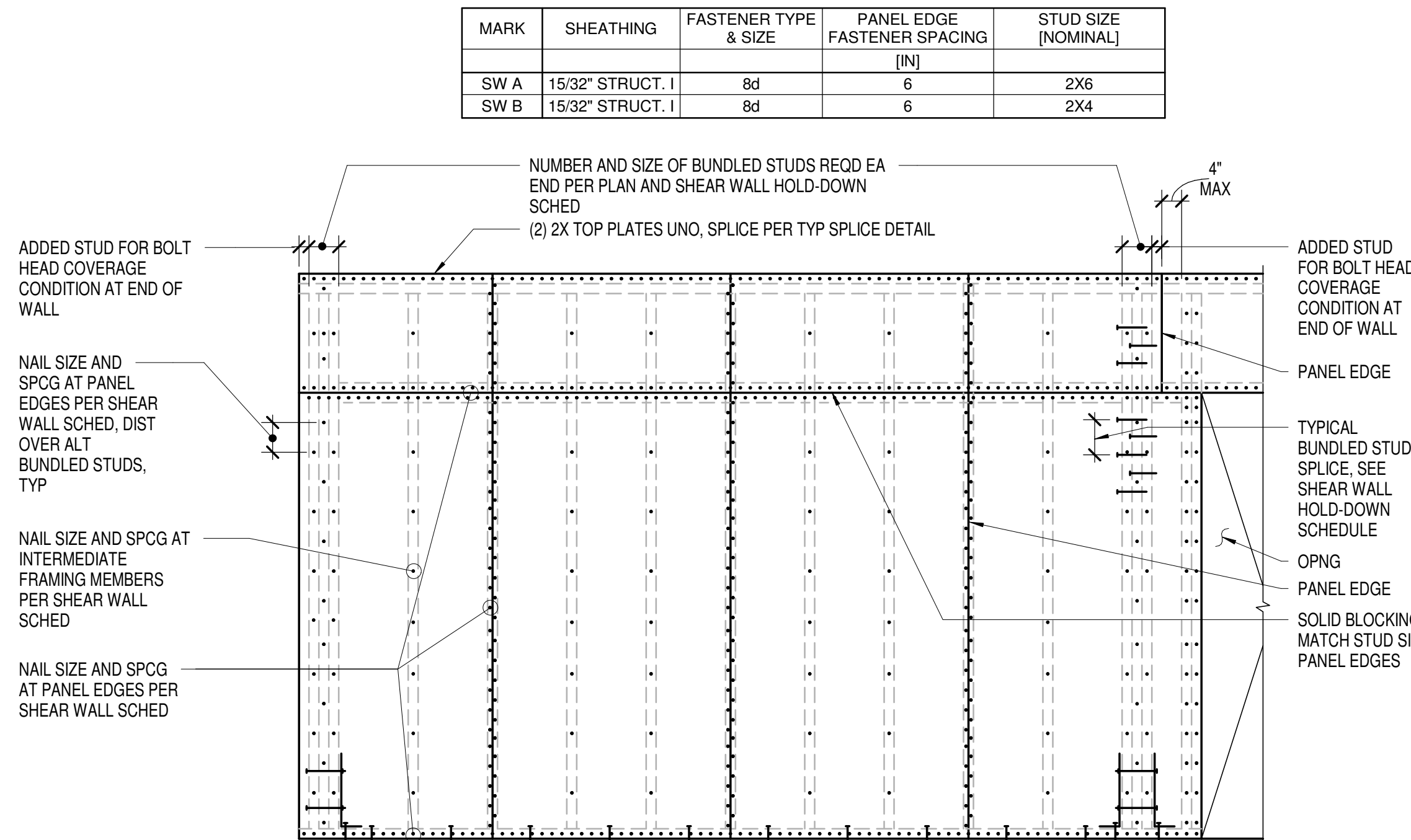
3 TYP TIMBER BM TO TIMBER BM
1" = 1'-0"



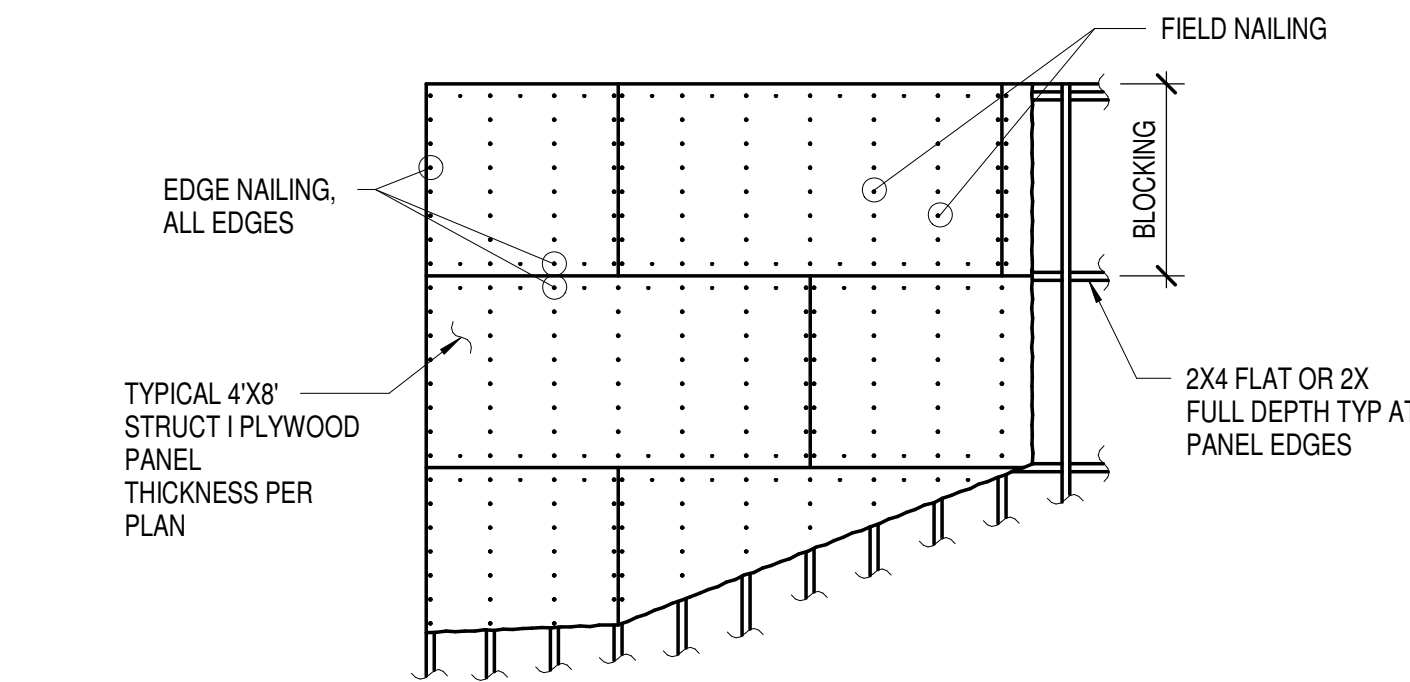
4 TYP TIMBER BM TO TIMBER POST
1" = 1'-0"



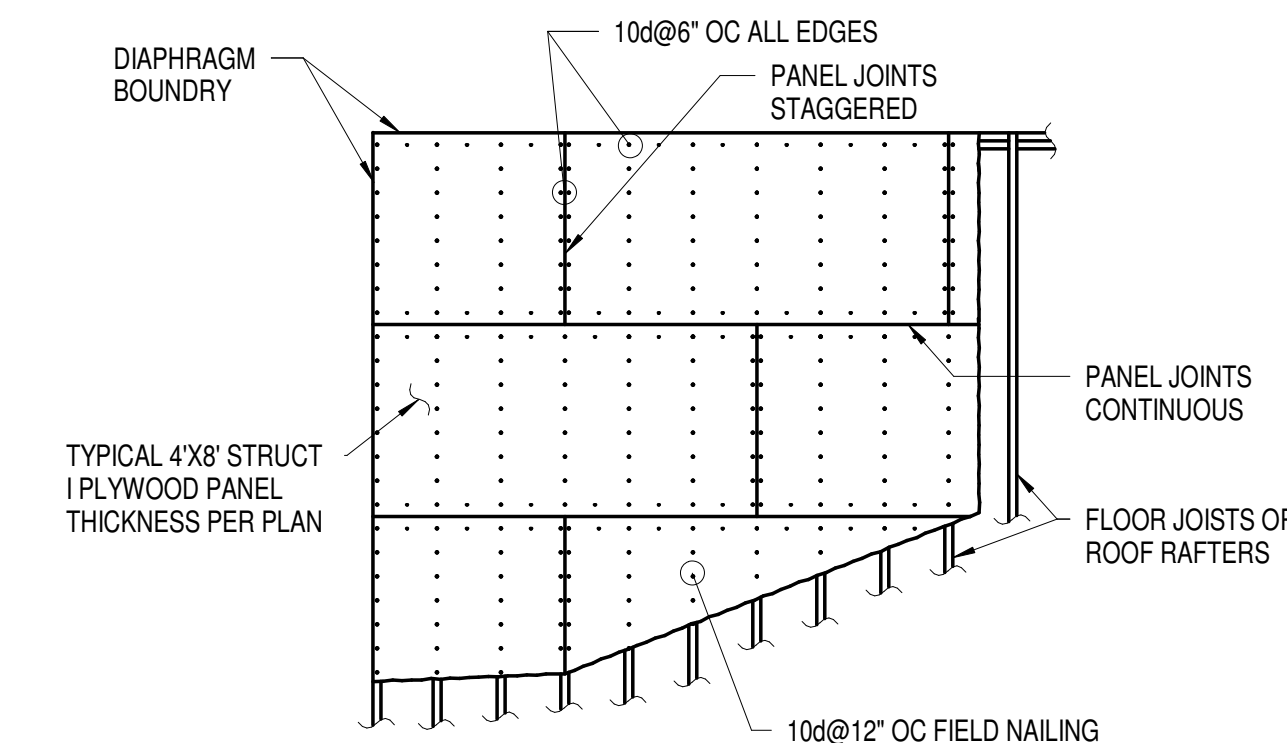
5 TYPICAL STUD WALL INTERSECTIONS
1" = 1'-0"



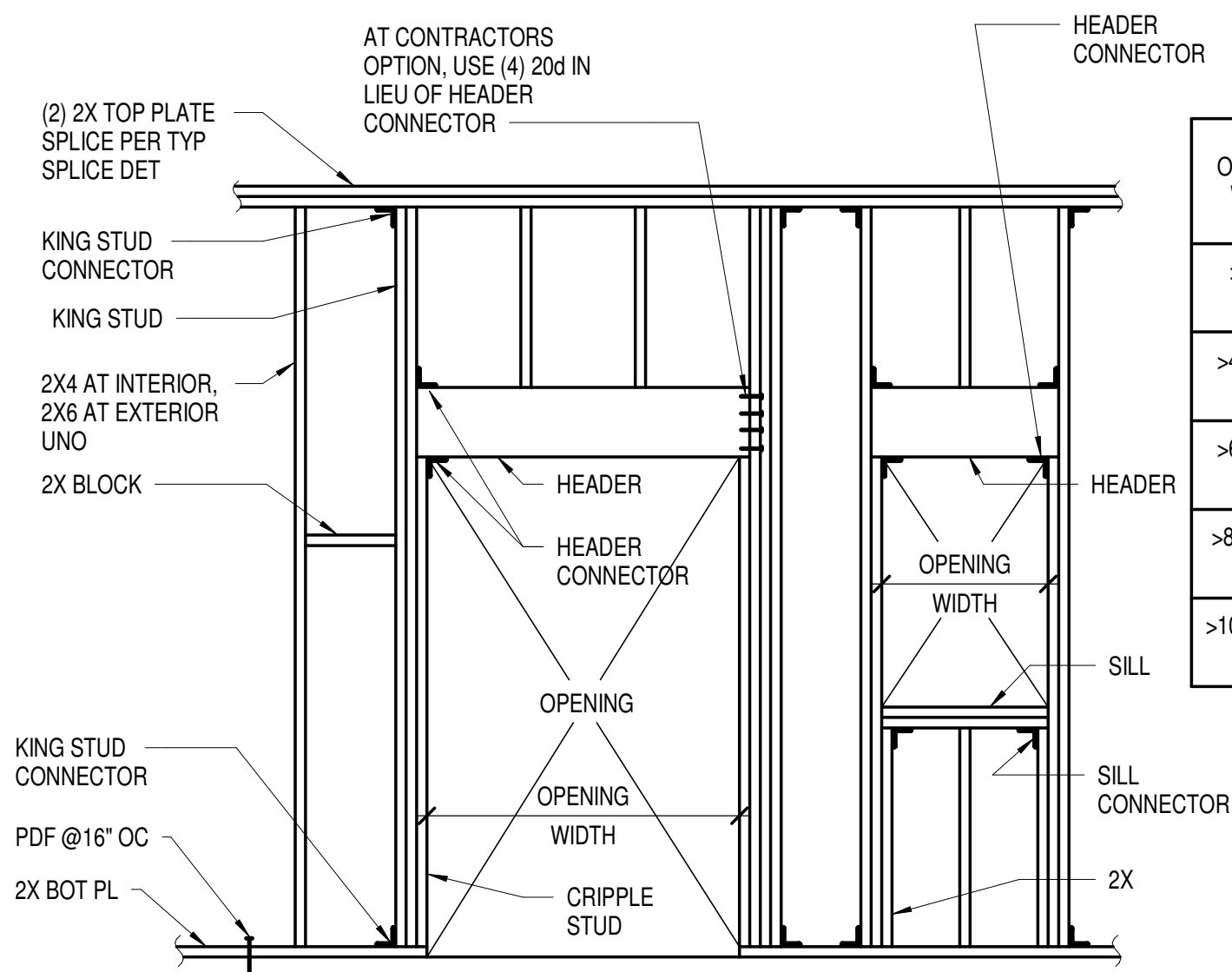
6 TYPICAL SHEAR WALL FRAMING
1/2" = 1'-0"



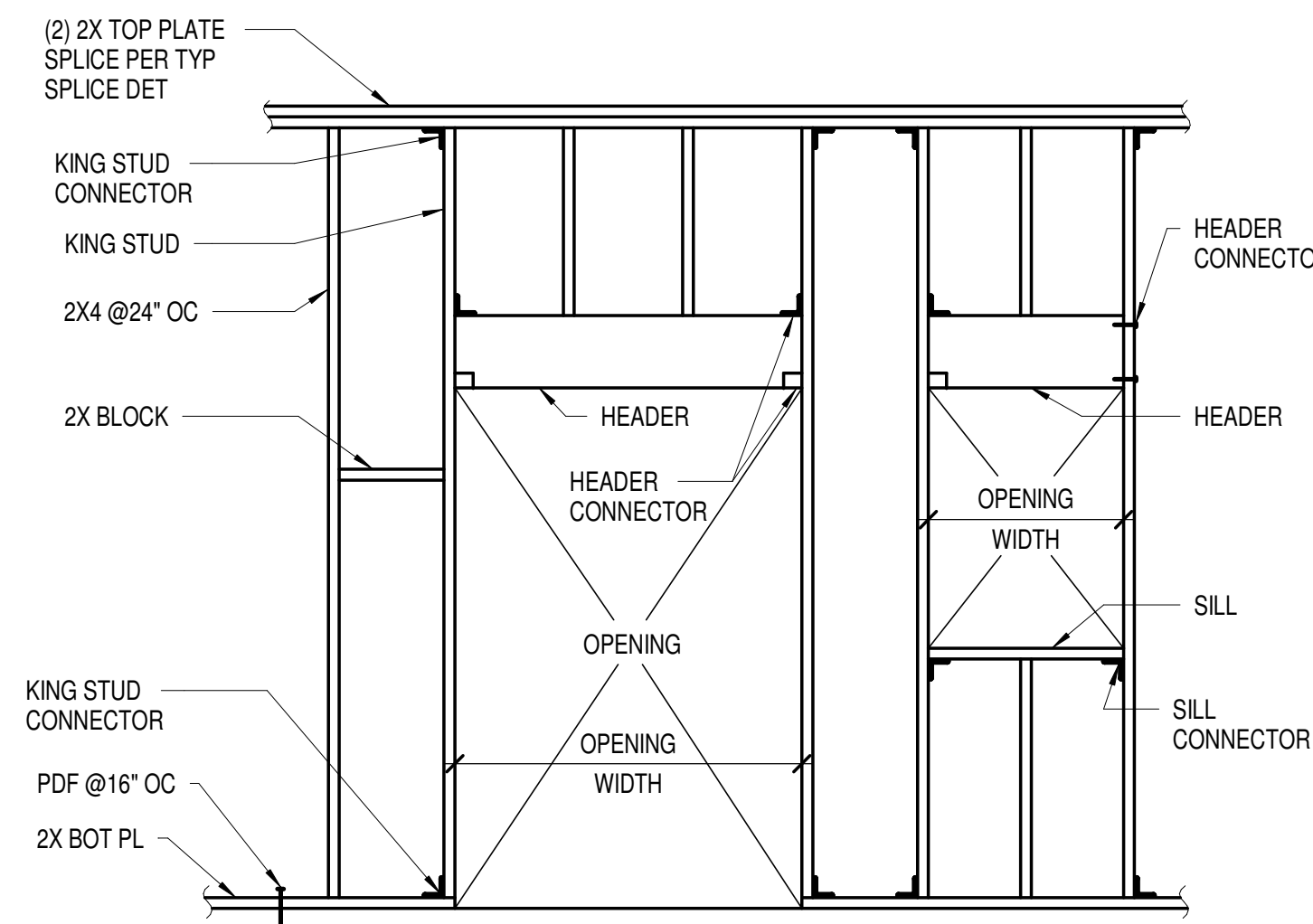
7 BLOCKED HORIZONTAL DIAPHRAGM
1/4" = 1'-0"



8 UNBLOCKED HORIZONTAL DIAPHRAGM
1/4" = 1'-0"



9 TYPICAL TIMBER STUD BEARING WALL FRAMING
1/2" = 1'-0"



10 TYPICAL TIMBER STUD PARTITION (NON-BEARING) WALL FRAMING
1/2" = 1'-0"

OPENING WIDTH	HEADER		SILL		KING STUD			CRIPPLE STUD
	SIZE	CONNECTOR	SIZE	CONNECTOR	LVL	SIZE	CONNECTOR	
>0'-4'-0"	(2) 2X8	(2) A35	2X	FC	LVL 4 - ROOF	(2) 2X	A35	2X
>4'-0'-6'-0"	(2) 2X10	(2) A35	(2) 2X	FC	LVL 4 - ROOF	(3) 2X	A35	2X
>6'-0'-8'-0"	(2) 1 3/4"x11 7/8" 1.9 E LVL	(2) A35	(2) 2X	FC	LVL 4 - ROOF	4X6	A35	2X
>8'-0'-10'-0"	(2) 1 3/4"x11 7/8" 1.9 E LVL	(2) A35	(2) 2X	FC	LVL 4 - ROOF	4X8	A35	(2) 2X
>10'-0'-12'-0"	(2) 1 3/4"x11 7/8" 1.9 E LVL	(2) A35	(2) 2X	FC	LVL 4 - ROOF	4X8	A35	(2) 2X

NOTES:

- REFER TO GENERAL NOTES FOR BEARING WALL CONSTRUCTION FOR ALL WALL TYPES.
- NAIL MULTIPLE 2X STUDS FOR HEADER, SILL AND KING STUD TOGETHER WITH 16d AT 12" ON CENTER.
- MINIMUM NAILING SHALL BE PER THE IBC.
- AT SHEAR WALL, USE STUD AND SILL MEMBER THICKNESS PER SHEAR WALL SCHEDULE.

OPENING WIDTH	HEADER		SILL		KING STUD	
	SIZE	CONNECTOR	SIZE	CONNECTOR	SIZE	2X
>0'-4'-0"	(2) 2X4	(2) A35 OR (4) 20d NAILS	2X4	FC4	2X4	A34
>4'-0'-8'-0"	4X6	HH4 AND A35 OR (6) 20d NAILS	(2) 2X4	FC4	(2) 2X4	A34

NOTES:

- NAIL MULTIPLE 2X STUDS FOR HEADER, SILL AND KING STUD TOGETHER WITH 16d AT 12" ON CENTER.
- MINIMUM NAILING SHALL BE PER THE IBC.
- AT CONTRACTOR'S OPTION, USE .145" DIAMETER X 3/4" CONCRETE EMBEDMENT LOW VELOCITY POWDER DRIVEN FASTENER AT 16" ON CENTER. CONTRACTOR TO COORDINATE WITH POST TENSIONED TENDON.

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Key Plan

Description	Date
50% Design Development	02/24/20
100% Design Development	05/29/20
50% Construction Documents	11/06/20

Project

Storm King Art Center Pond Pavilion

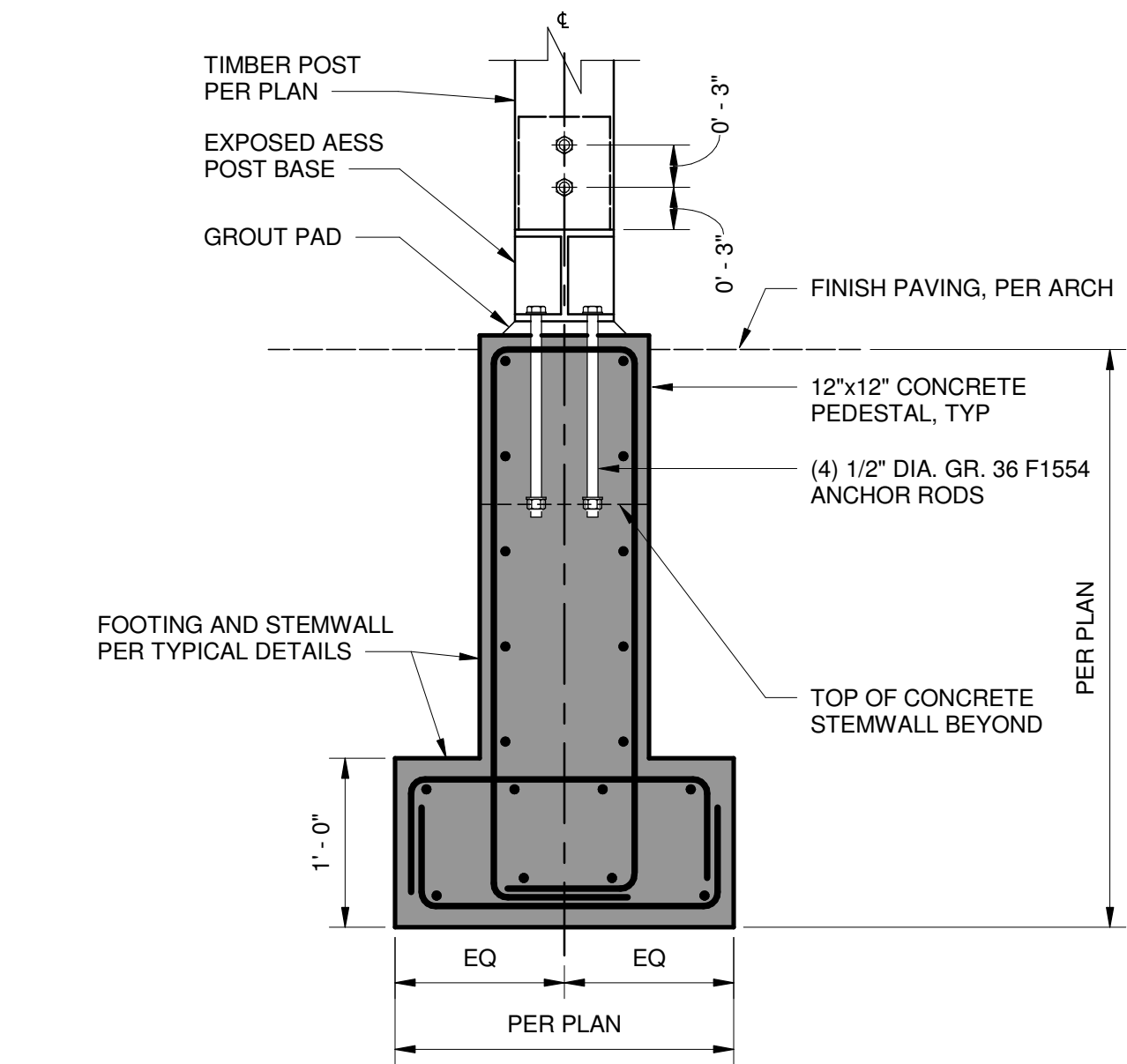
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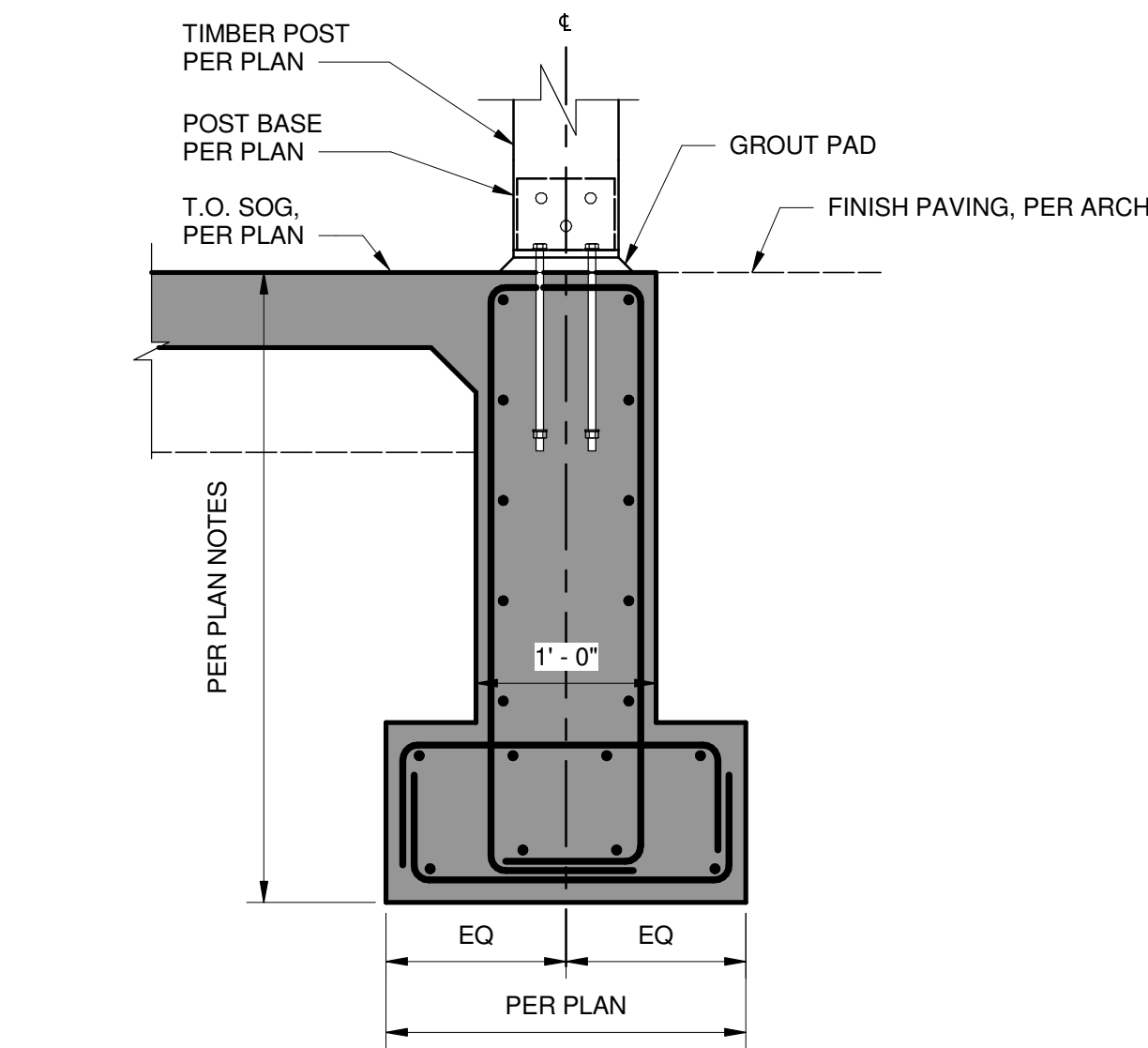
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Structural Typ Timber Details, Sheet 2

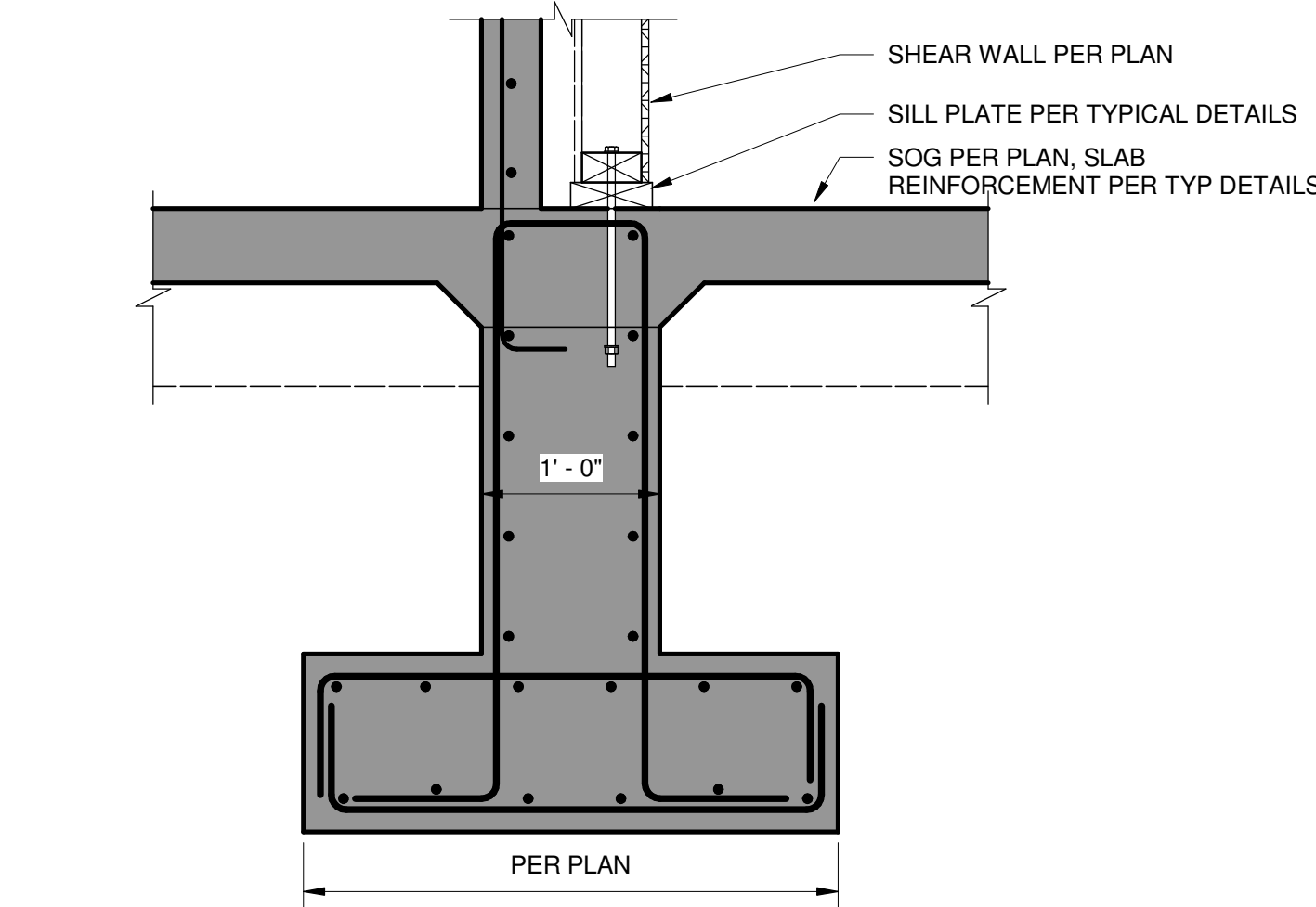
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Sheet Size	ARCH D



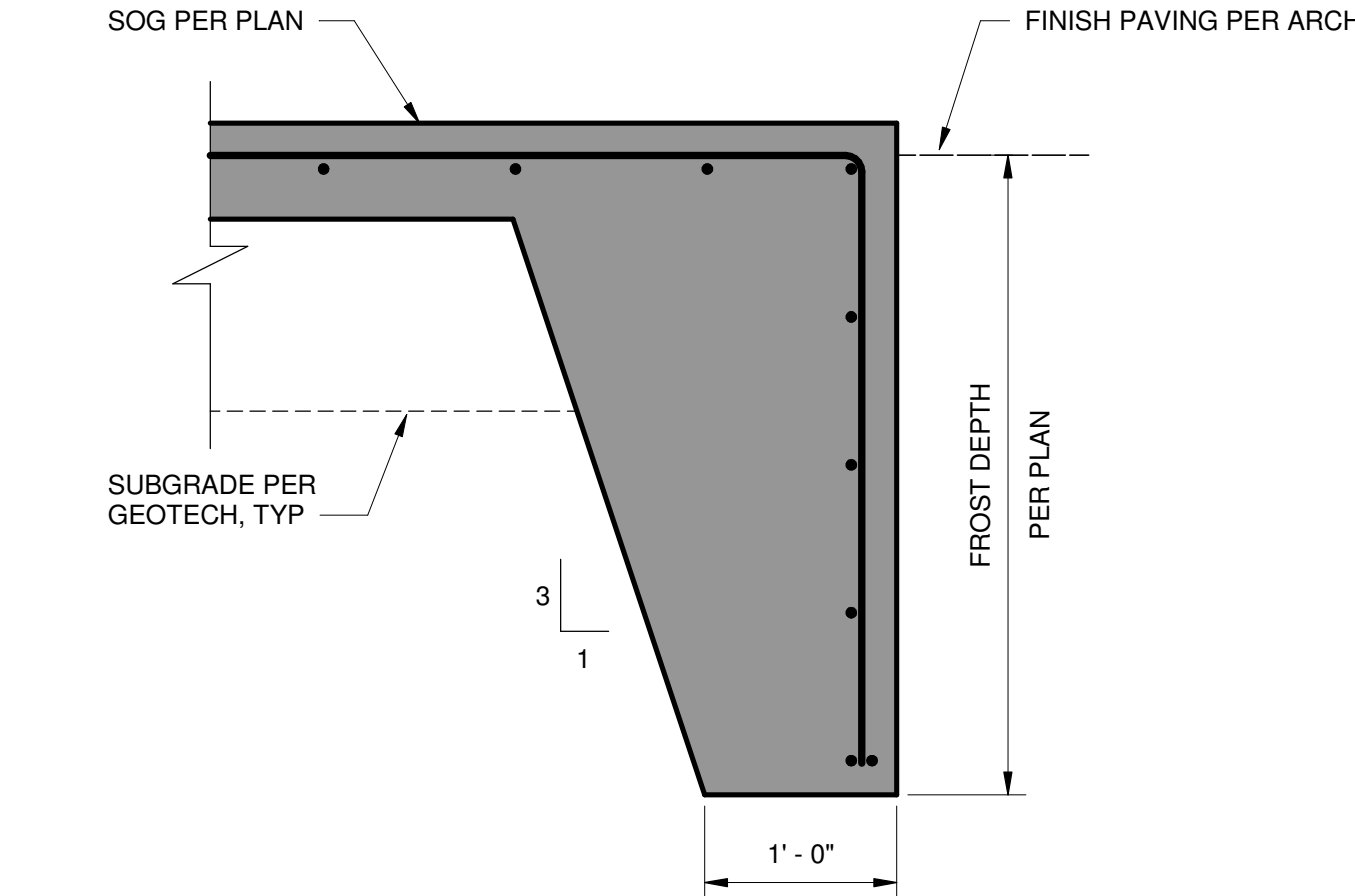
1 EXTERIOR POST BASE SECTION
1" = 1'-0"



2 INTERIOR POST BASE SECTION
1" = 1'-0"



3 WALL SECTION GL H
1" = 1'-0"



4 SLAB EDGE SECTION
1" = 1'-0"

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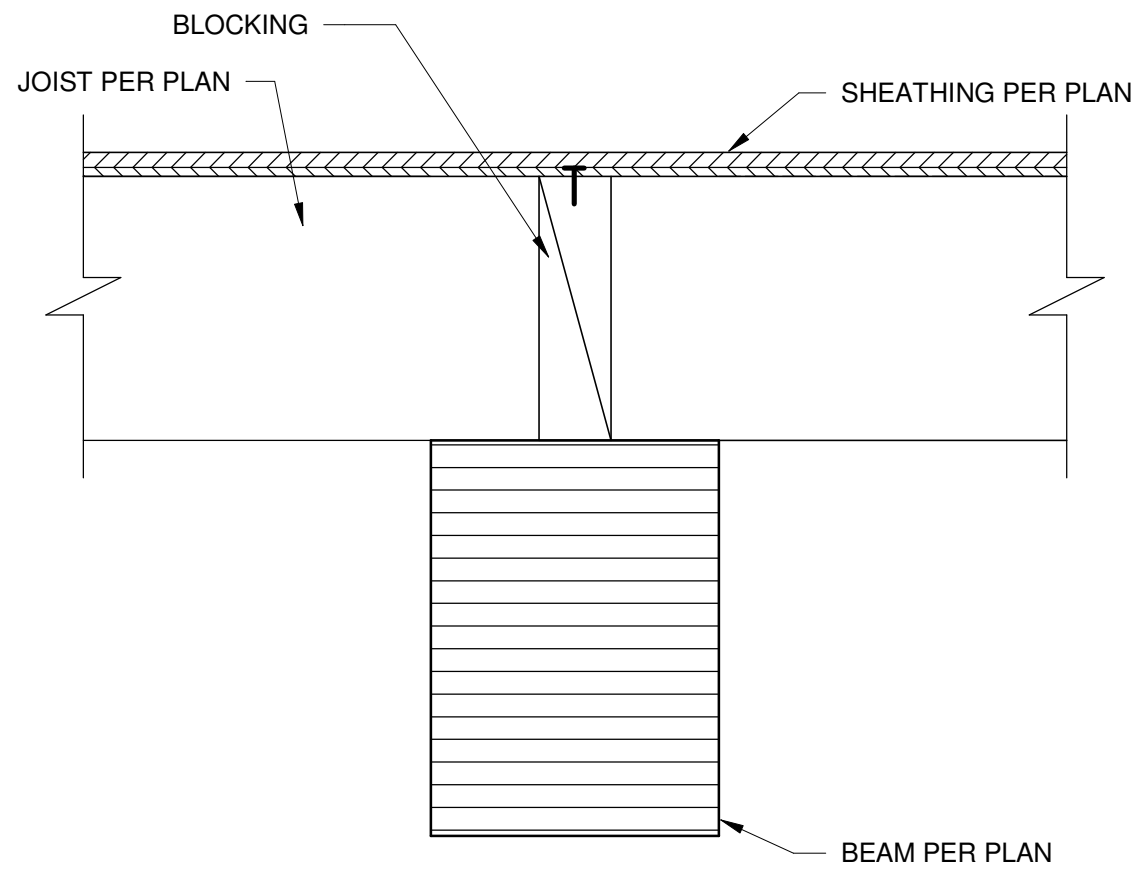
Description	Date
100% Design Development	05/29/20
50% Construction Documents	11/06/20

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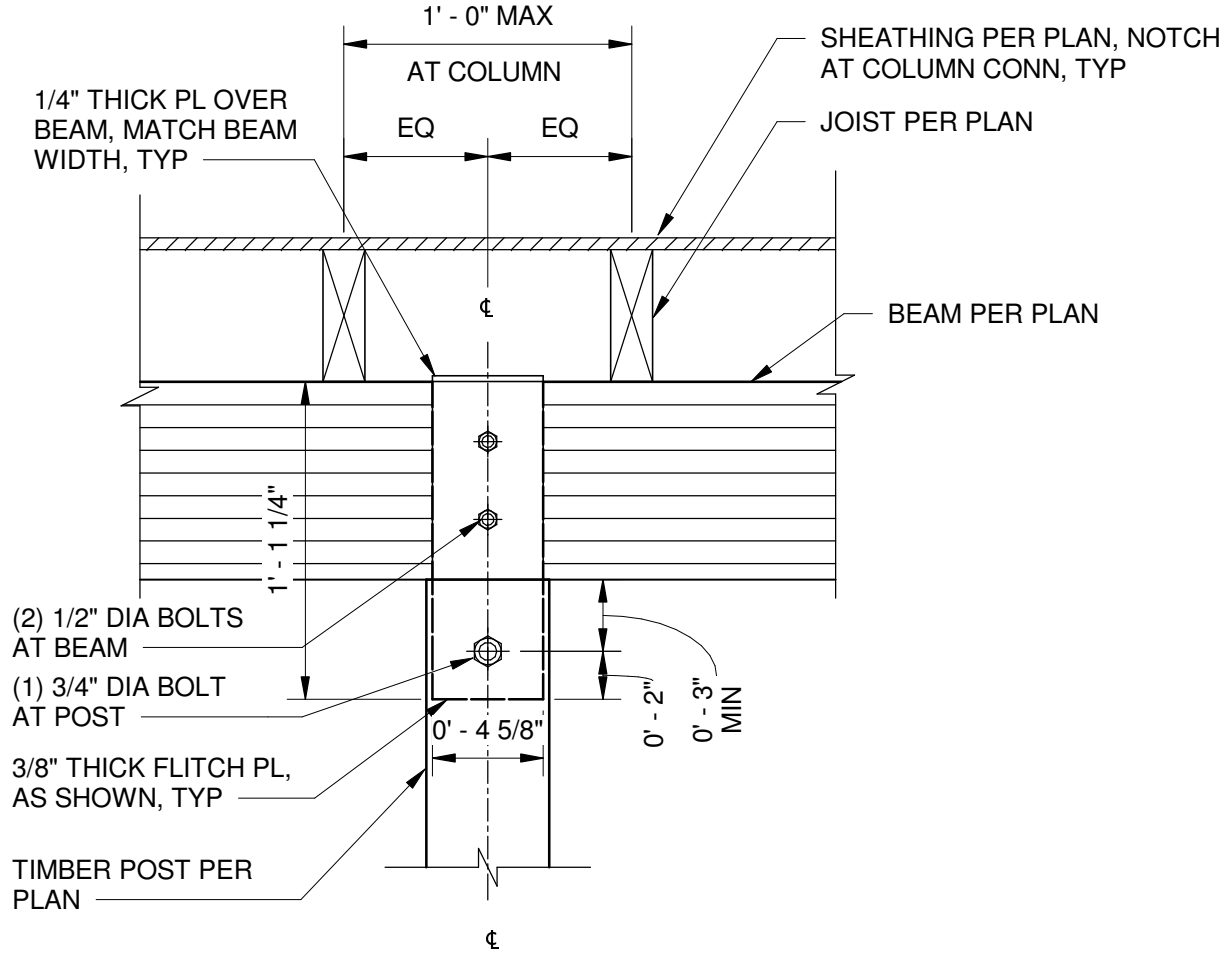
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Drawing Title
Foundation Details

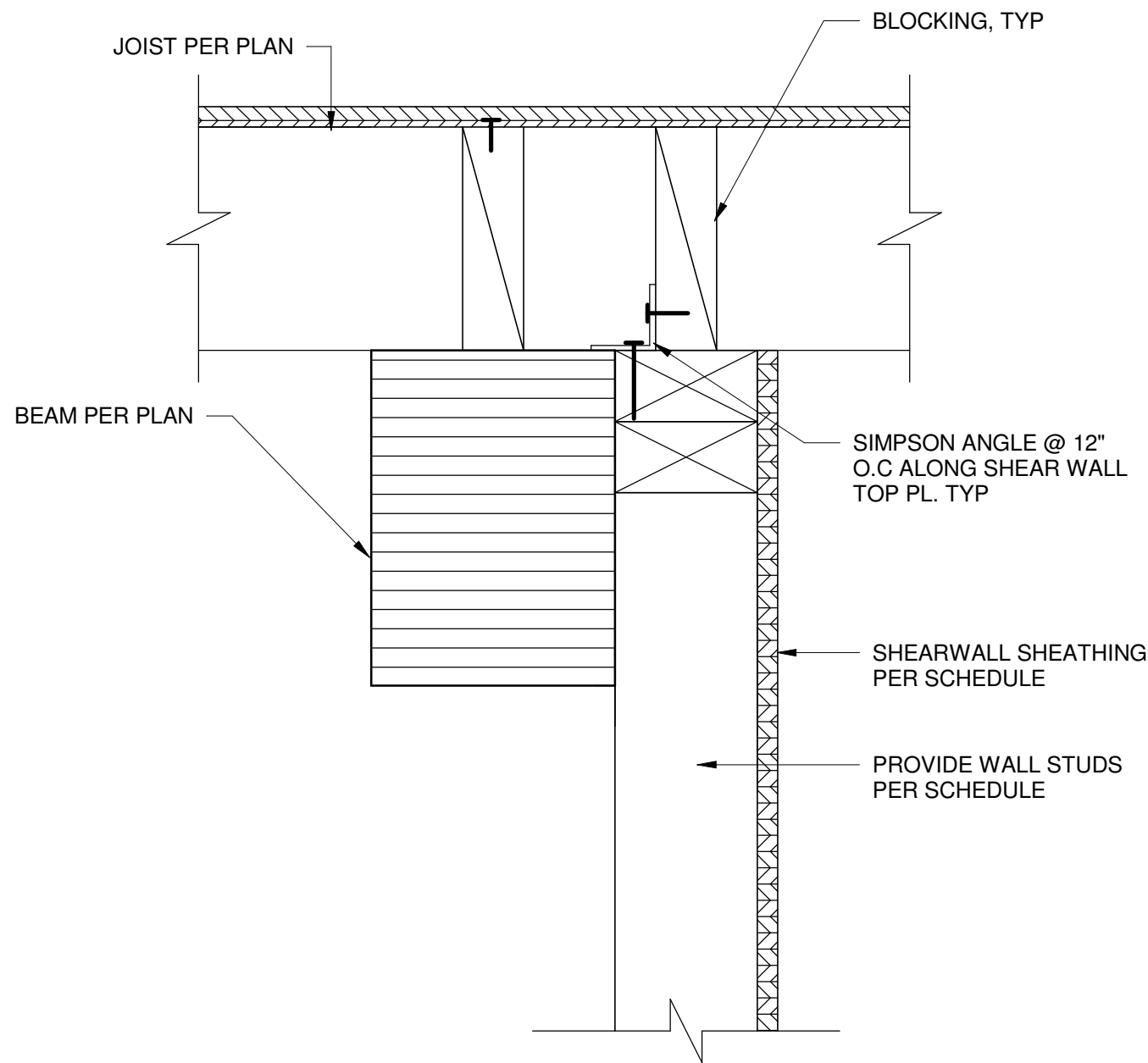
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Drawing Number	S-P-801
Sheet Size	ARCH D



1 JOIST TO BEAM CONNECTION
3" = 1'-0"

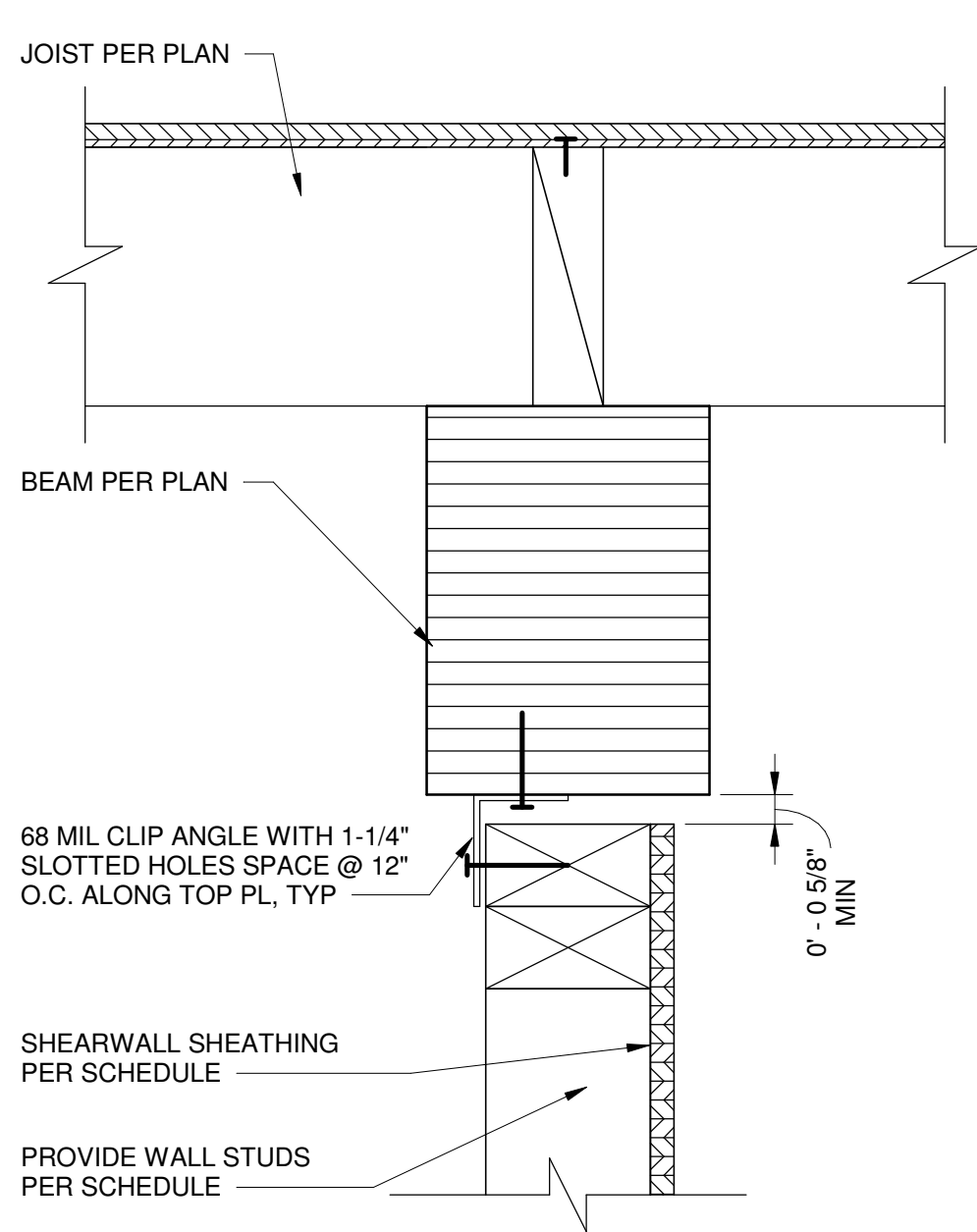


2 POST TO BEAM CONNECTION
1 1/2\"/>



OFFSET FROM BEAM

3 SHEAR WALL TO BEAM
3" = 1'-0"



ALIGNED WITH BEAM

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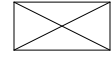
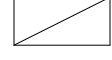

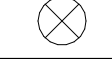





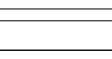

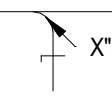
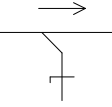
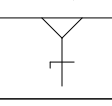
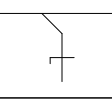
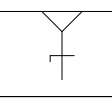
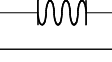


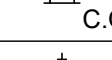

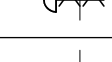

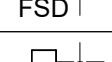
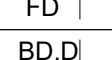




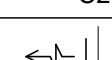
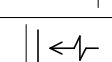
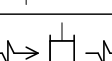
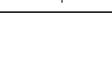
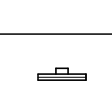



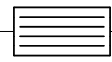
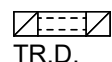
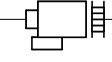
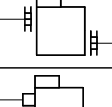
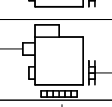
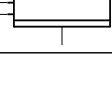


Project
Storm King
Art Center
Pond Pavilion

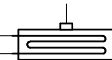
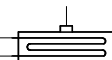


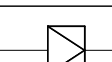
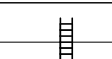


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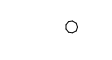
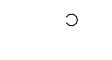
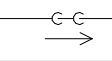
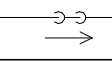

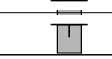

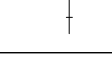

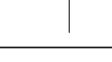


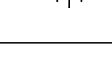
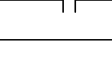
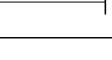


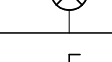
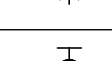
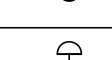
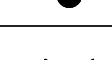
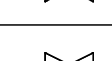


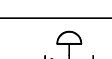
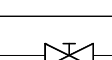
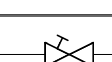



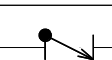
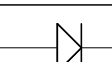

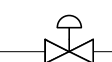
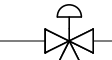
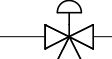
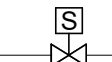
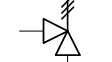

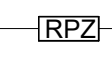

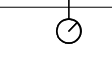
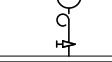

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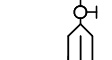

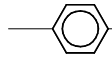
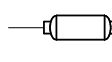

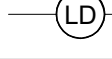
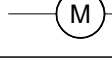
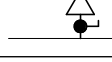
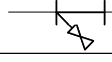
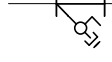

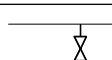
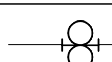



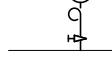
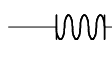
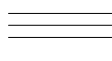
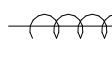
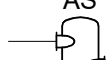

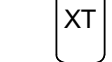

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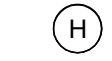
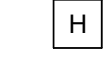

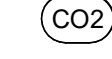
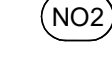
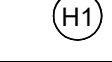
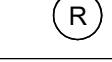


ABBREVIATIONS	
ABV.	ABOVE
AC	AIR CONDITIONER
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AL	ACOUSTICAL LINING
ALD	AUTOMATIC LOUVER DAMPER (MOTORIZED)
ATC	AUTOMATIC TEMPERATURE CONTROL
B.D.D.	BACK DRAFT DAMPER
BMS	BUILDING MANAGEMENT SYSTEM
BOD	BOTTOM OF DUCT
BHP	BRAKE HORSE POWER
BRD	BAROMETRIC RELIEF DAMPER
BTU	BRITISH THERMAL UNIT
CC	COOLING COIL
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CG	CEILING GRILLE
CO2	CARBON DIOXIDE
CHW	CHILLED WATER
CO	CLEAN OUT
COD	CABLE OPERATED VOLUME DAMPER
CDP	CONDENSATE DRAIN PIPING
CP	CONDENSATE PUMP RETURN
CAV	CONSTANT AIR VOLUME TERMINAL
DN	DOWN
EAT	ENTERING AIR TEMPERATURE
EXH FN	EXHAUST FAN
EHC	ELECTRIC HEATING COIL
EV	EXPANSION VESSEL/EXPANSION TANK
EWI	ENTERING WATER TEMPERATURE
ETK	EXPANSION TANK
FC	FLEXIBLE CONNECTION
FCU	FAN COIL UNIT
FD/AD	FIRE DAMPER/ACCESS DOOR
FD/GA	FIRE DAMPER/GRILLE ACCESS
FTR	FIN TUBE RADIATOR
FL	FLOOR
FLA	FULL LOAD AMPS
FSD	FIRE SMOKE DAMPER
FSD/AD	FIRE SMOKE DAMPER/ACCESS DOOR
FSD/GA	FIRE SMOKE DAMPER/GRILLE ACCESS
GPM	GALLONS PER MINUTE
GX	GENERAL EXHAUST
HC	HEATING COIL
HHW	HEATING HOT WATER
HPS	HIGH PRESSURE STEAM
HP	HORSE POWER
HX	HEAT EXCHANGER (SHELL & TUBE)
ID	INSIDE DIMENSION
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LED	LINEAR EXHAUST DIFFUSER (CEILING, WALL, SILL, OR FLOOR)
LRD	LINEAR RETURN DIFFUSER (CEILING, WALL, SILL, OR FLOOR)
LSD	LINEAR SUPPLY DIFFUSER (CEILING, WALL, SILL, OR FLOOR)
LTHW	LOW TEMPERATURE HOT WATER
LVL	LEVEL
LWS	LOUVER WITH WIRE SCREEN
LWT	LEAVING WATER TEMPERATURE
MAT	MIXED AIR TEMPERATURE
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MBTU	BRITISH THERMAL UNIT (1000 BTU)
MIN	MINIMUM
MO (WO)	MASONRY OPENING (WALL OPENING)
NC	NORMALLY CLOSED
NFA	NET FREE AREA
NIC	NOT IN THIS CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAT	OUTSIDE AIR TEMPERATURE
OBD	OPPOSED BLADE DAMPER
OED	OPEN ENDED DUCT
P	PUMP
PHC	PRE-HEAT COIL
PHX	PLATE & FRAME HEAT EXCHANGE
PSI	POUNDS PER SQUARE INCH (GAUGE)
RA	RETURN AIR
RF	RETURN FAN
RHC	REHEAT COIL
RPM	REVOLUTIONS PER MINUTE
RR	RETURN REGISTER
RX	RECYCLING ROOM EXHAUST
SA	SUPPLY AIR
SCHW	SECONDARY CHILLED WATER
SD	SMOKE DAMPER
SD/ALD	SMOKE DAMPER AND AUTOMATIC LOUVER COMBINATION
SF	SUPPLY FAN
SG	SUPPLY GRILLE
ST	SOUND TRAP
SEF	SMOKE EXHAUST FAN
TOD	TOP OF DUCT
TF	TRANSFER FAN
TG	TOP GRILLE
TR	TOP REGISTER
TD	TRANSFER DUCT
TRX	TRASH EXHAUST
TX	TOILET EXHAUST
UH	UNIT HEATER
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
WMS	WIRE MESH SCREEN
(300)	CUBIC FEET OF AIR PER MINUTE OR GALLONS PER MINUTE

HVAC SYMBOLS (DUCTWORK)	
	RECTANGULAR DUCT SUPPLY
	RECTANGULAR DUCT RETURN
	RECTANGULAR DUCT EXHAUST
	ROUND DUCT SUPPLY
	ROUND DUCT RETURN
	ROUND DUCT EXHAUST
	FALT OVAL DUCT SUPPLY
	FLAT OVAL DUCT RETURN
	FLAT OVAL DUCT EXHAUST
	DOUBLE WALL DUCTWORK
	DUCT WITH ACOUSTIC LINING
	DUCT WRAPPED WITH FIRE RATED INSULATION
	BRANCH DUCT WITH RADIUSIED SIDE SPLIT - RECTANGULAR DUCT
	BRANCH DUCT TAP, SINGLE BOOT - RECTANGULAR DUCT
	BRANCH DUCT TAP, DOUBLE BOOT - RECTANGULAR DUCT
	BRANCH DUCT TAP, SINGLE BOOT - ROUND & FLAT OVAL DUCT
	BRANCH DUCT TAP, DOUBLE BOOT - ROUND & FLAT OVAL DUCT
	FLEXIBLE DUCT
	FLEXIBLE CONNECTION
	ACCESS DOOR
	CLEAN OUT
	DUCT THROUGH BEAM PENETRATION
	AUTOMATIC DAMPER - OPPOSED BLADE
	AUTOMATIC DAMPER - PARALLEL BLADE
	FIRE SMOKE DAMPER
	FIRE DAMPER
	BACKDRAFT DAMPER
	BAROMETRIC DAMPER
	SQUARE CEILING DIFFUSER (SHADED SECTORS INDICATE BLANK OFFS)
	ROUND CEILING DIFFUSER (SHADED SECTORS INDICATE BLANK OFFS)
	ROUND FLOOR DIFFUSER (UFAD)
	REGISTER - SIDEWALL/CEILING/FLOOR - SUPPLY
	REGISTER/GRILLE - SIDEWALL/CEILING/FLOOR - RETURN/EXHAUST
	WALL TRANSFER GRILLES
	LINEAR DIFFUSER/GRILLE - SUPPLY/RETUN/EXHAUST (UNSHADED SECTIONS INDICATE ACTIVE LINEAR, SHADED SECTIONS INDICATE BLANK OFF)
	PLENUM FOR LINEAR DIFFUSER/GRILLE
	DUCT SMOKE DETECTOR
	DUCT FIRESTAT
	AIRFLOW STATION
	SOUND TRAP
	ACOUSTIC TRANSFER DUCT
	TERMINAL UNIT - VAV BOX - WITH/WITHOUT HEATING COIL
	TERMINAL UNIT - FAN COIL UNIT
	TERMINAL UNIT - FAN POWERED BOX WITH/WITHOUT HEATING COIL
	TERMINAL UNIT - FAN POWERED CHILLED BEAM - WITH HEATING & COOLING COILS
	TERMINAL UNIT - ACTIVE CHILLED BEAM - CEILING MOUNTED (SEE EQUIPMENT SCHEDULES)

HVAC SYMBOLS (DUCTWORK)	
	TERMINAL UNIT - ACTIVE CHILLED BEAM - HORIZONTAL ABOVE CEILING MOUNTED (SEE EQUIPMENT SCHEDULES)
	TERMINAL UNIT - ACTIVE CHILLED BEAM - VERTICAL ABOVE CEILING MOUNTED (SEE EQUIPMENT SCHEDULES)
	TERMINAL UNIT - AIRFLOW REGULATOR (SLIP IN TYPE)
	TERMINAL UNIT - FAN BOOSTER UNIT (UFAD)
	LINT TRAP
	DUCT MOUNTED COIL
	DUCT MOUNTED UVGI
	DUCT MOUNTED HUMIDIFIER

HVAC SYMBOLS (PIPING)	
	PIPE TURNING UP
	PIPE TURNING DOWN
	SLOPE RISE IN DIRECTION OF FLOW
	SLOPE DROP IN DIRECTION OF FLOW
	PIPE THROUGH BEAM PENETRATION
	WALL SLEEVE WITH WATER STOP
	ELBOW
	TEE
	BRANCH PIPE TOP CONNECTION
	BRANCH PIPE BOTTOM CONNECTION
	REDUCER/INCREASER CONCENTRIC
	REDUCER/DECREASER ECCENTRIC
	UNION
	FLANGED JOINT
	BLIND FLANGE
	END CAP
	PIPE GUIDE
	PIPE ANCHOR
	BALL VALVE - MANUAL (LEVER HANDLE)
	BALL VALVE - MANUAL (TEE HANDLE)
	BALL VALVE - MOTORIZED
	GENERAL DUTY ISOLATION VALVE (SEE SPEC FOR TYPE)
	GATE VALVE
	GLOBE VALVE
	BUTTERFLY VALVE - MANUAL
	BUTTERFLY VALVE - MOTORIZED
	ORBIT VALVE
	FLOWSETTER VALVE (BALANCING)
	CARTRIDGE FLOW BALANCER
	PRESSURE REDUCING VALVE
	PLUG VALVE
	CHECK VALVE (SWING TYPE)
	CHECK VALVE (SILENT TYPE, CENTER GUIDED)
	PRESSURE INDEPENDENT CONTROL VALVE (PICV)
	2 WAY CONTROL VALVE
	3 WAY CONTROL VALVE (MIXING TYPE)
	3 WAY CONTROL VALVE (DIVERTING TYPE)
	SOLENOID VALVE
	RELIEF VALVE
	BACKFLOW PREVENTOR
	BACKFLOW PREVENTER (RPZ TYPE)
	AIR VENT (AUTOMATIC)
	TEMPERATURE GAUGE (DUCT MOUNTED)
	PRESSURE GAUGE W/ PIGTAIL AND PETCOCK

HVAC SYMBOLS (PIPING)	
	SIGHTGLASS
	SIGHTGLASS WITH MOISTURE INDICATOR (REFRIGERANT)
	FILTER-DRYER
	LEAK DETECTOR, PROBE TYPE
	LEAK DETECTOR, CABLE TYPE
	METER
	AIR VENT (MANUAL)
	Y-STRAINER WITH HOSE END
	Y-STRAINER WITH BLOW OFF BALL VALVE
	Y-STRAINER
	DRAIN VALVE WITH CAPPED HOSE END
	DUPLEX BASKET STRAINER
	NOISE SUPPRESSOR (STEAM PRV)
	TEMPERATURE GAUGE
	PRESSURE GAUGE W/ PIGTAIL AND PETCOCK
	FLEXIBLE COUPLING
	PIPE IN PIPE (FUEL OIL)
	HEAT TRACED PIPE
	AIR SEPARATOR
	EXPANSION TANK
	CHEM SHOT FEEDER
	SHELL AND TUBE HEAT EXCHANGER
	PLATE AND FRAME HEAT EXCHANGER
	PUMP

CONTROLS SYMBOLS	
	THERMOSTAT
	TEMPERATURE SENSOR
	HUMIDISTAT
	HUMIDITY SENSOR
	CARBON MONOXIDE SENSOR
	CARBON DIOXIDE SENSOR
	NITROGEN DIOXIDE SENSOR
	HYDROGEN SENSOR
	REFRIGERANT SENSOR
	EMERGENCY POWER OFF SWITCH
	TEMPERATURE GAUGE WITH PIPE WELL

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Key Plan

Description	Date
50% Design Development	02/24/20
100% Design Development	05/29/20
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Project

Storm King Art Center Pond Pavilion

Seal

NOT FOR CONSTRUCTION

Drawing Title
Abbreviations,
Symbols, and
Legends

Date	11/06/20
Scale	Not to Scale
Drawing Number	M-P-001
Sheet Size	ARCH D

A. GENERAL NOTES

1. EXECUTE THE WORK IN THE BEST AND MOST THOROUGH MANNER AND TO THE SATISFACTION OF THE CONSULTING ENGINEER, WHO WILL JOINTLY INTERPRET THE MEANING OF THE DRAWINGS AND SPECIFICATIONS AND SHALL HAVE THE POWER TO REJECT ANY WORK AND MATERIALS, WHICH IN THEIR JUDGMENT ARE NOT IN FULL ACCORDANCE THEREWITH.

2. EXCEPT FOR CHANGES AS MAY BE SPECIFICALLY APPROVED BY THE CONSULTING ENGINEERS, IN ACCORDANCE WITH ALTERNATES OF OPTIONS STATED HEREINAFTER, ALL WORK MUST BE IN FULL ACCORDANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS, COMPLETE IN EVERY WAY AND READY FOR SATISFACTORY AND EFFICIENT OPERATION WHEN DELIVERED TO THE OWNER.

3. WHERE DISAGREEMENTS OCCUR BETWEEN THE PLANS AND THE SPECIFICATIONS, OR WITHIN EITHER DOCUMENT ITSELF, THE ITEM OR ARRANGEMENT OF BETTER QUALITY, GREATER QUANTITY OR HIGHER COST SHALL BE INCLUDED IN THE BASE BID.

4. THE CONTRACTOR COVENANTS AND AGREES THAT THEY AND THEIR SUBCONTRACTORS AND THEY AND THEIR AGENTS, SERVANTS AND EMPLOYEES WILL PROVIDE AND MAINTAIN A SAFE PLACE TO WORK AND THAT THEY AND THEIR WILL COMPLY WITH ALL LAWS AND REGULATIONS OF ANY GOVERNMENTAL AUTHORITY HAVING JURISDICTION THEREOF AND THE CONTRACTOR AGREES TO INDEMNIFY, DEFEND AND HOLD HARMLESS THE CONSULTING ENGINEER, ARCHITECT AND OWNER FROM AND AGAINST ANY LIABILITY, LOSS, DAMAGE OR EXPENSE, INCLUDING ATTORNEY'S FEES ARISING FROM A FAILURE OR ALLEGED FAILURE ON THE PART OF THE CONTRACTOR, THEIR SUBCONTRACTORS AND THEY AND THEIR AGENTS, SERVANTS AND EMPLOYEES TO PROVIDE AND MAINTAIN A SAFE PLACE TO WORK OR TO COMPLY WITH ALL LAWS AND REGULATIONS OF ANY GOVERNMENTAL AUTHORITY HAVING JURISDICTION THEREOF.

5. THE CONTRACTOR AND EACH SUBCONTRACTOR COVENANTS AND AGREES TO INDEMNIFY, DEFEND AND HOLD HARMLESS THE CONSULTING ENGINEER, ARCHITECT AND OWNER FROM AND AGAINST ANY LIABILITY, LOSS, DAMAGE OR EXPENSE, INCLUDING ATTORNEY'S FEES ARISING FROM A FAILURE OR ALLEGED FAILURE ON THE PART OF THE CONTRACTOR, THEIR SUBCONTRACTORS AND THEY AND THEIR AGENTS, SERVANTS AND EMPLOYEES PROPERLY TO DISCHARGE THE OBLIGATIONS ASSUMED BY HIM OR THEM IN THE PERFORMANCE OF THE WORK, INCLUDING ANY ACT OR OMISSION ALLEGEDLY RESULTING IN DEATH OR PERSONAL INJURY OR PROPERTY DAMAGE OR IMPROPER CONSTRUCTION, CONSTRUCTION TECHNIQUES OR THE USE OF IMPROPER OR INAPPROPRIATE MATERIAL OR TOOLS.

6. THE CONTRACTOR AGREES THAT ANY CONTROVERSY OR DISPUTE TO WHICH THE CONTRACTOR, THE ARCHITECT, AND THE CONSULTING ENGINEERS ARE PARTIES SHALL BE SUBMITTED TO ARBITRATION FOR DECISION IN ACCORDANCE WITH THE RULES OF SUCH ASSOCIATION FOR CONSTRUCTION INDUSTRY DISPUTES. ALL SUBCONTRACTORS LIKEWISE AGREE TO SUBMIT TO SUCH ARBITRATION ANY DISPUTE BETWEEN OR AMONG THEM, THE CONTRACTOR, THE ARCHITECT AND THE CONSULTING ENGINEERS, AND THE CONTRACTOR AGREES TO MAKE AVAILABLE TO THE CONSULTING ENGINEERS ON DEMAND SIGNED COPIES OF THE CONTRACT BETWEEN THE OWNER AND THE CONTRACTOR AND BETWEEN THE CONTRACTOR AND THEIR SUBCONTRACTORS. THE CONTRACTOR AND EACH SUBCONTRACTOR AGREE THAT BY SUBMITTING A BID WHICH IS ACCEPTED, THIS PARAGRAPH SHALL BE DEEMED A WRITTEN AGREEMENT TO SUBMIT ANY CONTROVERSY THEREAFTER ARISING ARBITRATION.

7. ALL WORK SHALL BE DONE IN CONFORMANCE WITH ALL GOVERNING CODES, INCLUDING AMENDMENTS, BULLETINS, ETC., AS WELL AS STANDARDS OF INSTALLATION AND EQUIPMENT ESTABLISHED FOR THE BUILDINGS, AND REQUIREMENTS OF THE OWNER.

8. OBTAIN ALL NECESSARY PERMITS AND APPROVAL FROM GOVERNING AUTHORITIES AND FILE ALL NECESSARY FORMS. PAY ALL INSPECTION FEES.

9. COORDINATE SCHEDULING OF ALL WORK TO BE PERFORMED WITH OWNER AND/OR THEIR AGENT AND INCLUDE ALL NECESSARY PREMIUM TIME REQUIRED FOR SHUTDOWNS, WORK IN OCCUPIED AREAS, ETC.

10. BEFORE COMMENCING WORK, EXAMINE ALL ADJOINING WORK ON WHICH THIS WORK IS IN ANY WAY DEPENDENT FOR PERFECT WORKMANSHIP ACCORDING TO THE INTENT OF THIS SPECIFICATION, AND REPORT TO THE CONSTRUCTION MANAGER ANY CONDITION WHICH PREVENTS PERFORMANCE OF FIRST-CLASS WORK NO "WAIVER OF RESPONSIBILITY" FOR INCOMPLETE, INADEQUATE OR DEFECTIVE ADJOINING WORK WILL BE CONSIDERED UNLESS NOTICE HAS BEEN FILED BEFORE SUBMITTAL OF A PROPOSAL.

11. COORDINATE ALL WORK WITH OTHER TRADES TO INSURE INSTALLATION IS MADE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

12. FURNISH ADEQUATE LIABILITY INSURANCE AND BONDING AS REQUIRED BY OWNER.

13. INCLUDE ALL LABOR, MATERIALS, AND APPURTENANCES REQUIRED FOR THE FURNISHING, INSTALLING AND TESTING OF ALL WORK. COMPLETE AND MAKE READY FOR OPERATION IN A MANNER SATISFACTORY TO THE ARCHITECT AND CONSULTING ENGINEER. ALL WORK SHOWN ON DRAWINGS AND SPECIFIED HEREIN.

14. ALL WORK SHALL BE GUARANTEED FOR TWO (2) FULL YEARS FROM THE DATE WHEN THE OWNER HAS ISSUED A "CERTIFICATE OF SUBSTANTIAL COMPLETION".

15. PROVIDE TEMPERATURE CONTROL DEVICES FOR ALL EQUIPMENT, THERMAL ZONE, HEATING & COOLING COILS AND EACH

16. DIMENSIONS INDICATED ON THESE DRAWINGS ARE CLEAR, INSIDE DIMENSIONS.

17. CONTRACTOR SHALL ALLOW FOR ADEQUATE FLEXIBLE DUCT AND PIPE CONNECTIONS. CONNECTION SHALL CONFORM TO THE REQUIREMENTS OF THE MECHANICAL DETAILS AND SPECIFICATIONS.

18. IN ADDITION TO ROTATING EQUIPMENT CONNECTIONS, FLEXIBLE ACOUSTIC ISOLATION, BUILDING CONNECTIONS SHALL OCCUR AT ALL MOVEMENT JOINTS, AND AT ALL "BOX-IN BOX" CONSTRUCTION. COORDINATE REQUIREMENTS WITH ALL OTHER DRAWINGS.

19. ALL SUSPENDED EQUIPMENT TO BE HUNG WITH VIBRATION ISOLATORS PER SPECIFICATION SECTION. MECHANICAL DETAILS AND

20. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE VIBRATION ISOLATION REQUIREMENTS IN THE SPECIFICATIONS & STANDARD DETAILS.

21. PROVIDE FIRE DAMPERS WHEN CROSSING RATED WALLS. REFER TO RATED WALL LOCATIONS AND ARCHITECTURAL DRAWINGS FOR FIRE TYPES.

22. BUILDING SMOKE PURGE SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF ANY LOCAL AHJ REQUIREMENTS. .

23. SUPPORT ANCHORS SECURED TO THE BOTTOM OF FLOOR SLABS SHALL BE OF THE DROP-IN OR SLEEVE ANCHOR VARIETY. POWDER CHARGED ANCHORING METHODS SHALL NOT BE USED.

24. COORDINATE WITH ARCHITECT FOR FINAL LOCATIONS OF ALL THERMOSTATS PRIOR TO INSTALLATION AND SEEK ENGINEER CONFIRMATION.

25. ALL CONTROL POWER WIRING AND TRANSFORMERS FOR DAMPERS, ACTUATORS, VAV PANELS, ETC SHALL BE PROVIDED BY THE CONTROLS CONTRACTOR. BOXES, CONTROL POWER FOR CONTROL DEVICES SHALL BE DERIVED FROM SOURCE DESIGNATED BY THE ELECTRICAL CONTRACTOR

26. PROVIDE ACCESS PANELS IN CEILINGS FOR ACCESS TO EQUIPMENT WHERE NECESSARY. CONTRACTOR SHALL ALLOW FOR ADEQUATE ACCESS FOR ALL BALANCING COMPONENTS AND HVAC EQUIPMENT. ENSURE ALL MECHANICAL ELEMENTS ARE A MINIMUM 8" ABOVE FALSE CEILING.

27. ALL MECHANICAL EQUIPMENT SHALL BE MOUNTED ON HOUSEKEEPING PADS AS INDICATED IN THE DRAWINGS. COMPLETE WITH ACOUSTIC AND VIBRATION MOUNTS AS INDICATED IN THE STANDARD DETAILS.

28. ALL SUPPLY & RETURN / EXHAUST GRILLES SHALL BE VISION PROOF WHERE REQUIRED.

29. REFER TO ARCHITECTS DRAWINGS FOR CEILING AND FLOOR MOUNTED GRILLE & DIFFUSER SETTING OUT DIMENSIONS.

30. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE. REFERENCE ARCHITECTURAL DRAWINGS FOR DIMENSIONS/RELATIONSHIPS OF ALL EXPOSED ELEMENTS. COORDINATE ALL HIDDEN WORK WITH ALL OTHER TRADES AND WITH THE FINAL, DIMENSIONED LAYOUT OF ELEMENTS FROM ALL TRADES PRIOR TO THE START OF ANY WORK. REPORT ANY CONFLICTS TO ARCHITECT FOR RESOLUTION PRIOR TO START OF ANY WORK.

31. ALLOW FOR ACCESS GRATINGS TO EQUIPMENT AND DAMPERS HIGHER THAN 10 FEET ABOVE FLOOR LEVEL IN MECHANICAL ROOMS.

32. PROVIDE ACCESS PANEL IN CEILINGS FOR ACCESS TO EQUIPMENT WHERE NECESSARY. REFER TO ARCHITECT'S CEILING PLANS AND DETAILS.

33. DRAIN LINES FROM ROOF MOUNTED EQUIPMENT SHALL BE PIPED TO THE NEAREST ROOF DRAIN.

B MECHANICAL DUCTWORK

1. COMBINATION FIRE SMOKE DAMPERS SHALL BE INSTALLED WHEREVER DUCTWORK PENETRATES A SHAFT ENCLOSURE.

2. MAXIMUM LENGTH OF FLEXIBLE DUCTWORK BETWEEN BRANCH AND AIR TERMINAL SHALL BE 3'-0".

3. PROVIDE VOLUME DAMPERS IN BRANCH AND RUN OUT DUCTWORK FOR ALL AIR OUTLETS AND INLETS. WHERE DAMPERS ARE ABOVE NON-ACCESSIBLE CEILINGS OR ARE WITHIN CONSTRUCTION, CABLE OPERATED, WORM-GEAR TYPE, REMOTE NON-ACCESSIBLE VOLUME DAMPERS SHALL BE PROVIDED.

4. PROVIDE 1" INTERNAL DUCT ACOUSTICAL & THERMAL LINING (TYPE: JOHNS MANVILLE PERMACOTE LINAACOUSTIC R-300 TYPE II BOARD OR EQUAL AND APPROVED) ON ALL SUPPLY DUCTWORK FOR THE FIRST 18ft FROM SUPPLY FAN.

5. SUPPORT ANCHORS SECURED TO THE BOTTOM OF FLOOR SLABS SHALL BE OF THE DROP-IN OR SLEEVE ANCHOR VARIETY. POWDER CHARGED ANCHORING METHODS SHALL NOT BE USED.

6. PROVIDE DUCT ACCESS DOORS AND CEILING ACCESS PANELS FOR ALL FIRE, SMOKE AND, COMBINATION FIRE/SMOKE DAMPERS. CEILING ACCESS PANELS SHALL BE COORDINATED WITH ARCHITECTS REQUIREMENTS.

7. PROVIDE SMOKE DETECTORS IN ALL DUCTWORK WHERE REQUIRED BY CODE. COORDINATE ALL SMOKE DETECTORS WITH THE ELECTRICAL CONTRACTOR AND THE FIRE ALARM.

8. AIR OUTLET'S LOCATED IN HIGH CEILINGS SHALL BE FIELD ADJUSTED FOR OPTIMUM DRAFT AND THROW PERFORMANCE.

9. ALL EXPOSED DUCTWORK SHALL BE INTERNALLY LINED, CLEAN, STICKER FREE AND FREE OF DEFORMITIES AND MARKS.

10. LINEAR FLOOR GRILLES AND DIFFUSERS SHALL BE SHOWN ON ARCHITECTURAL DRAWINGS AND SHALL BE HEAVY DUTY.

11. MOUNT ALL SIDEWALL REGISTERS AT THE SAME ELEVATION OR AS SHOWN ON ARCHITECTURAL DRAWINGS.

12. ALL SUPPLY AND RETURN GRILLES AND OPENINGS MUST BE COORDINATED WITH ARCHITECTURE USING THE DESIGN REQUIREMENTS SHOWN ON THE MECHANICAL DRAWINGS AND SCHEDULES.

13. APPROVED COORDINATION DRAWINGS TO BE USED FOR ELEVATIONS AND LOCATIONS OF DUCTWORK AND EQUIPMENT.

14. ALL OPEN ENDED DUCTS TO HAVE WIRE MESH SCREENS.

15. OUTDOOR AIR OPENINGS WITHIN 10' OF CONTAMINANTS SHALL POSITIONED TO CONFORM TO ASHRAE 62.1 2007 REQUIREMENTS.

16. ALL AIR PLENUM SHALL BE 18 GAGE SHEET METAL.

C MECHANICAL PIPEWORK

1. ALL PIPING TO ALLOW FOR EXPANSION BY MEANS OF EXPANSION LOOP AND PIPE ANCHORS.

2. ALL GAS-FIRED APPLIANCES SHALL BE VENTED IN ACCORDANCE WITH NFPA-54, REFERENCED IN THE NYC BUILDING CODE AND WITH LOCAL E-DESIGNATION CODE.

3. PROVIDE GAS SAFETY SHUT-OFF VALVES ON BOTH THE FIRM AND INTERRUPTIBLE GAS MAINS LOCATED IN THE BOILER ROOM. THE CONTRACTOR SHALL PRESSURE TEST ALL PIPING AS PER THE SPECIFICATION.

4. ALL PIPING IN UNHEATED AREAS OR OUTSIDE SHALL BE HEAT TRACED.

5. COORDINATE WITH PLUMBING CONTRACTOR FOR ALL GAS CONNECTIONS TO GAS FIRED EQUIPMENT.

6. DRAIN LINES FROM CEILING MOUNTED EQUIPMENT SHALL BE PIPED TO THE NEAREST FLOOR DRAIN OR SANITARY LINE.

7. HEAT TRACE ALL HEATING HOT WATER PIPE LOCATED ABOVE GRADE OUTSIDE OF BUILDINGS, OR IN COVERED WALKWAYS.

8. ALL PIPING PASSING THROUGH MASONRY WALLS SHALL HAVE A SLEEVE, SEE SPECIFICATIONS.

9. ALL PIPING PASSING THROUGH FIRE-RATED WALLS SHALL HAVE A FIRE-RATED SLEEVE - SEE SPECIFICATIONS.

10. REFRIGERANT PIPE INSULATION AND VAPOR BARRIERS SHALL BE CONTINUOUS THROUGH PIPE HANGERS.

11. ALL BLACK STEEL PIPE HANGERS SHALL BE PAINTED PRIOR TO INSTALLATION.

12. PROVIDE A STRAIGHT RUN OF PIPING AT PUMP SUCTIONS OF LENGTH AT LEAST 5 PIPE DIAMETERS.

D. DIRECT DIGITAL CONTROL (DDC) OVERAL SYSTEM

(BASES OF DESIGN : DISTECH CONTROLS BY AUTOMATED BUILDING SOLUTIONS)

CONTRACTOR SHALL INCLUDE A NEW AND OPEN COMMUNICATION PROTOCOL STATE OF THE ART DIRECT DIGITAL CONTROL (DDC) SYSTEM, COMPOSED OF AN OPERATING SYSTEM CAPABLE TO TREND READING DATA, ALARM CONTROL SETPOINTS OUT OF RANGE, SCHEDULE SPECIAL AND REGULAR EVENTS AND DISPLAY 3D GRAPHICS. THIS OPERATING SYSTEM SHALL BE HOSTED BY A RACK SERVER WITH ALL THE NECESSARY ACCESSORIES IN ORDER TO BE SEATED INTO THE OWNER'S BUILDING IT NETWORK OR DEDICATED DDC FOR PASSWORD PROTECTED REMOTE ACCESS AND ACT AS A VIRTUAL SERVER. THE OPERATING DDC SYSTEM SHALL BE THE LATEST VENDOR'S VERSION AND ANY FUTURE UPGRADES SHALL BE INCLUDED AS PART OF THE SCOPE FOR AT LEAST THE PERIOD OF THE WARRANTY. THE SYSTEM SHALL SUPPORT API PROTOCOLS

TRAINING SHALL BE INCLUDED AND IT SHALL INCLUDE THREE PHASES:

1. A GENERAL SYSTEM OVERALL TRAINING.
2. HANDS-ON TRAINING.
3. FOLLOW UP TRAINING - THIS FOLLOW UP TRAINING SHALL BE SIX MONTHS AFTER FINAL CONSTRUCTION.

THE DDC SYSTEM SHALL INCLUDE DATA MANAGER CONTROLLERS PER EACH LEVEL OR FLOOR WITH NETWORK LOOPS OF A MINIMUM OF 64 DEVICES OR UNITARY CONTROLLERS. THE DDC SYSTEM ALSO SHALL BE CAPABLE OF EXPANSION. DEDICATED UNITARY CONTROLLERS SHALL BE PROVIDED FOR ALL TYPE OF MECHANICAL SYSTEMS AS WELL AS ALL THE ASSOCIATED END DEVICES. EACH DDC CONTROLLER SHALL HAVE UNIVERSAL INPUTS AND OUTPUTS.

CONTROLS WILL HAVE THE CAPABILITY OF TREND LOGGING SPECIFIC PARAMETERS IN ORDER TO COMMISSION THE SYSTEM AND TRACK ENERGY COSTS AS REQUIRED (THIS INCLUDES ANY METERING STRATEGIES REQUIRED BY LEED E.G. MEASUREMENT & VERIFICATION). IT IS ENVISAGED THAT AN ENERGY "DASHBOARD" WILL BE PROVIDED IN THE FACILITY FOR THE BUILDING MANAGERS TO VIEW THE CURRENT ENERGY USAGE AND HISTORICAL ENERGY USAGE AND BE CONFIGURE PER THE OWNER'S DIRECTIOEN.

THE DDC SYSTEM SHALL HAVE INTEGRATION CAPABILITIES. THE INTENT OF THE INTEGRATION IS TO FORM THE ABILITY TO HAVE A SINGLE ACCESS TO ALL INTEGRATED SYSTEMS. THIS IS NOT LIMITED TO THE FOLLOWING: BOILER MASTER PANELS, VRF INTERFACES, CHILLERS, CRAC UNITS, VFD'S , GAS AND WATER FLOW METERS, WATER TREATMENT PANELS, FIRM, SECURITY, ACCESS CONTROL, CCTV, VIDEO SURVEILLANCE, LIGHTING CONTROL, UPS/BATTERY POWER SYSTEM, ATS SWITCHES, POWER METERS, DIGITAL SIGNAGE, ELEVATOR CONTROLS AND PACKAGED HVAC EQUIPMENT SUCH AS AHUS AND RTUS. ALTHOUGH ALL FEATURES MAY NOT BE INSTALLED IN THIS PROJECT, THE DDC SHALL HAVE THE CAPABILITY. IF NECESSARY THE DDC SYSTEM SHALL ALSO BE CAPABLE TO MANAGE WIRELESS COMMUNICATION SYSTEMS. THIS APPLIES TO DATA-MANAGERS AS WELL AS UNITARY CONTROLLERS AND CRITICAL SENSORS.

THE DDC VENDOR SHALL INCLUDE A SEQUENCE OF OPERATIONS GRAPHIC AND DEDICATED PAGE(S). ALL THE SEQUENCES SHOULD BE IN A SEPARATE PART OF THE NAVIGATION TREE, BUT ALSO ORGANIZED BY INDIVIDUAL ROOM, BY AHU EQUIPMENT , AND/OR BY SYSTEM. THE SEQUENCE SHOULD BE THE AS-BUILT

SEQUENCE THAT MATCHES EXACTLY WHAT IS PROGRAMMED. AS COMMISSIONING OCCURS AND SEQUENCE CHANGES ARE MADE, THESE PAGES SHALL BE UPDATED.

SMART BUILDING FEATURE

THE DDC SYSTEM SHALL BE CAPABLE TO ACT AS "THE DRIVER" IN COLLECTING DATA, MONITOR PERFORMANCE AND ENERGY USAGE OF SEVERAL THIRD PARTY SYSTEM VIA DDC INTEGRATION. THE DDC SYSTEM SHALL HAVE INTEGRATION CAPABILITIES. THE INTENT OF THE INTEGRATION IS TO FORM THE ABILITY TO HAVE A SINGLE ACCESS TO ALL INTEGRATED SYSTEMS. THIS IS NOT LIMITED TO THE FOLLOWING: HEAT PUMPS, AIR HANDLING UNITS, VRF INTERFACES, FAN COIL UNITS, UNIT VENTS, VFD'S , WATER FLOW METERS, WATER TREATMENT SYSTEM, SECURITY, ACCESS CONTROL, CCTV, VIDEO SURVEILLANCE, LIGHTING CONTROL, UPS/BATTERY POWER SYSTEM, ATS SWITCHES, POWER METERS, DIGITAL SIGNAGE, ELEVATOR CONTROLS, SHADERS AND PACKAGED HVAC EQUIPMENT SUCH AS AHUS AND RTUS. IF NECESSARY THE DDC SYSTEM SHALL ALSO BE CAPABLE TO MANAGE WIRELESS COMMUNICATION SYSTEMS THIS APPLIES TO DATA-MANAGERS AS WELL AS UNITARY CONTROLLERS AND CRITICAL SENSORS.

DDC GENERAL NOTES

1. THE DDC CONTRACTOR SHALL FURNISH AND INSTALL ALL STATE OF THE ART HARDWARE AND ALL THE LATEST OPERATING AND APPLICATIONS SOFTWARE NECESSARY TO PERFORM THE CONTROL SEQUENCES OF OPERATION AS CALLED FOR IN THIS SPECIFICATION.
2. AS A MINIMUM, ONE DEDICATED DDCP SHALL BE PROVIDED FOR EACH MAIN HVAC EQUIPMENT (AHU, RTU, WATER SYSTEMS, VAV, FAN POWERED VAV BOXES, FCU), IT IS ACCEPTABLE TO HAVE EXPANSION DDC CONTROLLER WITHIN THE SAME SYSTEM DDCP.
3. ALL SETPOINTS INDICATED IN THE SEQUENCES SHALL BE ADJUSTABLE AT THE FRONT END DDC MAIN SOFTWARE SYSTEM OR ANY USER INTERFACE STATION CONNECTED TO ANY MAIN DATA MANAGER CONTROLLER.
4. UNLESS OTHERWISE NOTED, THE DDC SYSTEM ARCHITECTURE SHALL TIE INTO THE BUILDING IT INFRASTRUCTURE AND IT SHALL INTERACT BETWEEN EACH OTHER FOR REMOTE ACCESS. BUILDING IT SHALL PROVIDE STATIC IP ADDRESS AS REQUIRED BY THE DDC CONTRACTOR FOR THE DESIGN.
5. THE DDC CONTRACTOR SHALL COMPLY WITH ALL BUILDING IT INFRASTRUCTURE SECURITY POLICIES FROM REMOTE ACCESS.
6. UNLESS OTHERWISE NOTED, THE DDC CONTRACTOR SHALL PROVIDE, FOR THE PRIMARY NETWORK, AN INDIVIDUAL ETHERNET VERTICAL HOMERUNS FROM DDC SERVER SWITCHHUB TO EACH DATA MANAGER OR PRIMARY CONTROLLER AS LONG AS ETHERNET MAXIMUM DISTANCE LIMITATION ARE NOT EXCEEDED.
7. THE DDC CONTRACTOR SHALL BE RESPONSIBLE TO FOLLOW ALL THE TECHNICAL REQUIREMENTS IN A DDC SYSTEM ARCHITECTURE DESIGN FOR DISTANCE LIMITATIONS ON ETHERNET AND FIBER NETWORK. ALL ETHERNET SWITCHES OR FIBER TO ETHERNET CONVERTERS AND ASSOCIATED ACCESSORIES TO BE FURNISH BY THE DDC CONTRACTOR. THE DDC VENDOR SHALL PROVIDE PRIMARLY 24VAC POWER INPUT SWITCHES OR CONVERTERS TYPE.
8. THE DDC BMS SYSTEM SHALL ALLOW THE DISTRIBUTION OF SYSTEM FUNCTIONS SUCH AS MONITORING AND CONTROL AND GRAPHICAL USER INTERFACE ETC. ACROSS THE NETWORK TO ACHIEVE MAXIMUM FLEXIBILITY, ACCESSIBILITY AND PERFORMANCE.
9. IT IS NOT ACCEPTABLE TO UTILIZE THE NETWORK TO SEND CRITICAL DATA REQUIRED BY A CONTROL ALGORITHM FROM ONE CONTROLLER TO ANOTHER. CRITICAL DATA SHALL BE A DIRECT HARDWARE INPUT TO THE CONTROLLER CONTAINING THE CONTROL ALGORITHM. IF MULTIPLE CONTROLLERS REQUIRE THE SAME PIECE OF DATA FOR A CONTROL ALGORITHM, THE DATA SHALL BE A DIRECT HARDWARE INPUT TO EACH CONTROLLER.
10. IT IS NOT ACCEPTABLE TO RESTRICTED ACCESS TO DDC SYSTEM DATA BY THE HARDWARE CONFIGURATION OF THE BMS. HARDWARE CONFIGURATION OF THE BMS NETWORK SHALL BE TOTALLY OPEN AND TRANSPARENT TO THE USER WHEN ACCESSING DATA OR DEVELOPING CONTROL PROGRAMS.
11. THE BMS CONTRACTOR BASIS DESIGN SHALL BE MADE TO ALLOW THE CO-EXISTENCE OF CURRENT (IF APPLICABLE) AND FUTURE EXPANSION OF DATA MANAGER CONTROLLERS AND PERSONAL COMPUTER OPERATOR WORKSTATIONS ON THE SAME PRIMARY NETWORK.
12. IT IS NOT ACCEPTABLE TO RESTRICTED ACCESS TO A DDC SYSTEM DATA BY THE HARDWARE CONFIGURATION OF THE BMS. HARDWARE CONFIGURATION OF THE BMS NETWORK SHALL BE TOTALLY OPEN AND TRANSPARENT TO THE USER WHEN ACCESSING DATA OR DEVELOPING CONTROL PROGRAMS.
13. THE DDC CONTRACTOR SHALL PROVIDE NETWORK WIRING AS REQUIRED TO ENSURE TOTAL SYSTEM OPERATION AND COMMUNICATION WITHOUT INTERRUPTION, EVEN IF THE NETWORK WIRING IS OPEN IN ONE (1) LOCATION.
14. THE PRIMARY NETWORK SHALL ALLOW ANY DATA MANAGER CONTROL PANEL TO ACCESS ANY DATA FROM, OR SEND CONTROL COMMANDS AND ALARM REPORTS DIRECTLY TO, ANY OTHER PRIMARY CONTROL PANEL OR COMBINATION OF CONTROLLERS ON THE NETWORK WITHOUT DEPENDENCE UPON A CENTRAL OR INTERMEDIATE PROCESSING DEVICE.
15. THE PEER-TO-PEER NETWORK SHALL ALSO ALLOW ANY PRIMARY CONTROL PANEL TO ACCESS, EDIT, MODIFY, ADD, DELETE, BACK UP, RESTORE ALL SYSTEM POINT DATABASE AND ALL PROGRAMS, ASSIGN PASSWORD ACCESS AND CONTROL PRIORITIES TO EACH SYSTEM INDIVIDUALLY. THE LOGON PASSWORD (AT ANY PC WORKSTATION OR PORTABLE OPERATOR TERMINAL) SHALL ENABLE THE OPERATOR TO MONITOR, ADJUST AND CONTROL ONLY THE SYSTEM THAT THE OPERATOR IS AUTHORIZED FOR.
16. A RACK SERVER WITH BUILT-IN MONITOR SHALL BE FURNISHED LOADED WITH THE DDC CONTRACTOR OPERATING BUILDING MANAGEMENT SYSTEM (BMS) SOFTWARE PLUS ALL THE NECESSARY ACCESSORIES FOR MOUNTING AND CONNECTING TO AN IT NETWORK. AN ADDITIONAL IT STATION TO ACCESS DDC SERVER AT THE MAIN LOCATION POINTS OF CONTROL OF THE DDC SYSTEM SHOULD BE ALSO PROVIDED AND SET UP BY THE DDC CONTRACTOR.
17. ALL GLOBAL COMMON INFORMATION (OUTSIDE AIR TEMP & HUMIDITY, ETC) SHALL BE MEASURED AND COMMUNICATED FROM THE CENTRAL WEATHER STATION.
18. WEATHER STATION SHALL BE VAISALA WXT536 & IT SHALL BE PROVIDED WITH ALL NECESSARY ACCESSORIES TO MEASURE PRESSURE, TEMPERATURE, HUMIDITY, RAIN, WIND. INTERFACE CONNECTIVITY AS WELL AS HARDWARE TERMINATIONS ARE ACCEPTABLE.
19. THE DDC CONTRACTOR SHALL FURNISH COMMUNICATIONS INTERFACE (INCLUDING NECESSARY SOFTWARE) BETWEEN THE DDC SYSTEM AND EACH MANUFACTURER SUPPLIED CONTROL PANEL SPECIFIED. THE DDC SYSTEM SHALL BE CAPABLE OF READING AND DISPLAYING ALL DATA USED BY THE MANUFACTURER'S CONTROL PANEL. SOFTWARE INTERFACE SHALL BE THROUGH LONMARK/BACNET/MOD BUS COMPLIANT PROTOCOL. WHERE THE DDC SYSTEM IS REQUIRED TO CONTROL THE OPERATION OF THE EQUIPMENT, PROVIDE INPUT AND OUTPUT INTERFACE AS REQUIRED.
20. DDC SYSTEM SHALL BE EXPANDABLE WITHOUT HAVING TO PHYSICALLY RECONFIGURE THE NETWORK.
21. AN UNINTERRUPTIBLE POWER SUPPLY (UPS) SHALL BE PROVIDED AND INSTALLED BY THE DDC CONTRACTOR FOR EACH OF THE FOLLOWING DEVICES THAT ARE POWERED BY THE BMS INCLUDING; NETWORK SWITCHES, BMS PRIMARY CONTROL PANEL, BMS SECONDARY CONTROL PANEL, OPERATOR'S WORKSTATION, PRINTER AND FIELD DEVICE. EACH UPS SHALL POWER THE DEVICE FOR A MINIMUM OF 30 MINUTES, IN THE CASE OF POWER INTERRUPTION.
22. EACH UPS SHALL BE PROVIDED WITH DRY CONTACTS FOR STATUS, RECOMMENDED MANUFACTURER: FUNCTIONAL DEVICES PART# PS#860-UPS-STAT.

PRIMARY NETWORK

1. ALL OPERATOR WORKSTATIONS AND DATA MANAGER CONTROLLERS SHALL DIRECTLY RESIDE ON A NETWORK WHICH SHALL BE CAPABLE TO ACCESS, EDIT, MODIFY, ADD, DELETE, BACK UP, REPORT, TREND, RESTORE ALL SYSTEM POINT DATABASE AND ALL PROGRAMS) MAY BE EXECUTED DIRECTLY BETWEEN SERVERS, PRIMARY CONTROL PANELS, AND OPERATOR WORKSTATIONS ON A PEER-TO-PEER BASIS.
2. ALL OPERATOR DEVICES EITHER NETWORK RESIDENT OR CONNECTED VIA INTRANET AND INTERNET, SHALL HAVE THE ABILITY TO ACCESS ALL POINT STATUS AND APPLICATION REPORT DATA OR EXECUTE CONTROL FUNCTIONS FOR ANY AND ALL OTHER DEVICES VIA THE PRIMARY NETWORK OR THE SECONDARY NETWORK.
3. ACCESS TO DATA SHALL BE BASED UPON LOGICAL IDENTIFICATION OF BUILDING EQUIPMENT.
4. THE PRIMARY NETWORK SHALL PROVIDE A HIGH-SPEED DATA TRANSFER RATES FOR ALARM REPORTING, QUICK REPORT GENERATION FROM MULTIPLE CONTROLLERS AND UPLOAD/DOWNLOAD EFFICIENCY BETWEEN NETWORK DEVICES. SYSTEM PERFORMANCE SHALL INSURE THAT AN ALARM OCCURRING AT ANY CONTROL PANEL IS DISPLAYED AT ANY PC WORKSTATION, STANDALONE ALARM PRINTER AND/OR CONTROL PANEL WITHIN 5 SECONDS.
5. THE PRIMARY NETWORK SHALL PROVIDE MESSAGE AND ALARM BUFFERING TO PREVENT INFORMATION FROM BEING LOST, ERROR DETECTION, CORRECTION AND RE-TRANSMISSION TO GUARANTEE DATA INTEGRITY.
6. THE PRIMARY NETWORK SHOULD BE CAPABLE TO DO SYNCHRONIZATION OF REAL-TIME CLOCKS BETWEEN SERVER, PRIMARY CONTROL PANELS, AND OPERATOR WORKSTATIONS, INCLUDING AUTOMATIC DAYLIGHT SAVINGS TIME CORRECTIONS.
7. THE DDC CONTRACTOR SHALL PROVIDE NETWORK WIRING AS REQUIRED TO ENSURE TOTAL SYSTEM OPERATION AND COMMUNICATION WITHOUT INTERRUPTION, EVEN IF THE NETWORK WIRING IS OPEN IN ONE (1) LOCATION.
8. THE PRIMARY NETWORK SHALL ALLOW THE PRIMARY CONTROL PANELS TO ACCESS ANY DATA FROM, OR SEND CONTROL COMMANDS AND ALARM REPORTS DIRECTLY TO, ANY OTHER PRIMARY CONTROL PANEL OR COMBINATION OF CONTROLLERS ON THE NETWORK WITHOUT DEPENDENCE UPON A CENTRAL OR INTERMEDIATE PROCESSING DEVICE.
9. THE PRIMARY CONTROL PANEL SHALL SEND ALARM REPORTS TO MULTIPLE OPERATOR WORKSTATIONS WITHOUT DEPENDENCE UPON A CENTRAL OR INTERMEDIATE PROCESSING DEVICE.
10. THE PEER-TO-PEER NETWORK SHALL ALSO ALLOW ANY DATA MANAGER CONTROL PANEL TO ACCESS, EDIT, MODIFY, ADD, DELETE, BACK UP, RESTORE ALL SYSTEM POINT DATABASE AND ALL PROGRAMS, ASSIGN PASSWORD ACCESS AND CONTROL PRIORITIES TO EACH SYSTEM INDIVIDUALLY. THE LOGON PASSWORD (AT ANY PC WORKSTATION OR PORTABLE OPERATOR TERMINAL) SHALL ENABLE THE OPERATOR TO MONITOR, ADJUST AND CONTROL ONLY THE SYSTEM THAT THE OPERATOR IS AUTHORIZED FOR.

SECONDARY NETWORK

1. THIS NETWORK SHALL CONNECT AND SUPPORT STAND-ALONE SECONDARY CONTROL PANELS AND SHALL COMMUNICATE BI-DIRECTIONALLY WITH THE PRIMARY NETWORK THROUGH ANY DATA MANAGER CONTROL PANELS FOR TRANSMISSION OF GLOBAL DATA. SUFFICIENT NUMBER OF DATA MANAGER CONTROL PANELS SHALL BE PROVIDED FOR CONNECTION OF SECONDARY NETWORKS BASED ON QUANTITY OF SECONDARY CONTROLS PANELS AND DISTANCE LIMITATIONS.
2. SECONDARY CONTROL PANELS SHALL BE ARRANGED ON THE SECONDARY NETWORK IN A FUNCTIONAL RELATIONSHIP MANNER WITH THE DATA MANAGER CONTROL PANELS. FOR EXAMPLE, A VAV SECONDARY CONTROL PANEL ON A SECONDARY NETWORK OF A PRIMARY CONTROL PANEL THAT IS CONTROLLING THE VAV'S CORRESPONDING AHU. PRIMARY CONTROL PANEL HARDWARE (DATA MANAGER)

PRIMARY CONTROL PANEL HARDWARE (DATA MANAGER)

1. PROVIDE ONE (1) DATA MANAGER OR PRIMARY CONTROL PANEL AT EACH FLOOR OR LEVEL TO MONITOR AND SEQUENCING EQUIPMENT WITHIN ASSOCIATED FLOOR.
2. IT IS NOT ACCEPTABLE TO HAVE (1) DATA MANAGER OR PRIMARY CONTROLLER SERVING SEVERAL FLOORS UNLESS THE MECHANICAL EQUIPMENT IS INTERACTING WITH EACH OTHER FOR EXAMPLE: AN AHU UNIT IS LOCATED ON THE FIRST FLOOR AND ALL ASSOCIATED VAV BOXES ARE ON A SECOND FLOOR IF THIS IS THE CASE THEN IT IS ACCEPTABLE.
3. HVAC EQUIPMENT THAT INTERACT WITH EACH OTHER SHALL BE WITHIN THE SAME DATA MANAGER OR PRIMARY CONTROLLER.
4. DATA MANAGER CONTROLLER SHALL BE ASHRAE 135 COMPLIANCE AND USE THE LATEST VERSION OF BACNET/ASHRAE 135 PROTOCOL AND COMMUNICATE USING ISO 8802-3 (ETHERNET) DATALINK/PHYSICAL LAYER PROTOCOL.
5. ALL PRIMARY CONTROL PANELS SHALL BE INSTALLED WITH 30% SPARE MEMORY CAPACITY FOR FUTURE CONNECTIONS. PROVIDE ALL HARDWARE MODULES, SOFTWARE MODULES, PROCESSORS, POWER SUPPLIES, REPEATERS ETC. REQUIRED TO ENSURE ADDING A CONTROLLER TO THE SPARE MEMORY.
6. PROVIDE ALL PROCESSORS, POWER SUPPLIES AND COMMUNICATION CONTROLLERS SO THAT THE IMPLEMENTATION OF ADDING A CONTROLLER TO THE SPARE MEMORY ONLY REQUIRES THE ADDITION OF THE APPROPRIATE END DEVICES AND FIELD WIRING.
7. THE DATA MANAGER OR PRIMARY NETWORK CONTROLLER SHALL BE PROVIDED WITH ALL COMMUNICATION CARDS NEEDED FOR PROJECT INCLUDING CARDS FOR SPARE PORTS LEFT ON CONTROLLER.
8. EACH DATA MANAGER SHALL BE EQUIPPED TO MONITOR ALL INDUSTRY STANDARD TYPES OF INTERFACE PROTOCOLS WITHOUT THE ADDITION OF EQUIPMENT TO THE DATA MANAGER CONTROL PANEL OR ADDITIONAL SOFTWARE DRIVERS.
9. THE OPERATOR SHALL HAVE THE ABILITY TO MANUALLY OVERRIDE AUTOMATIC OR CENTRALLY EXECUTED COMMANDS AT THE DATA MANAGER OR PRIMARY CONTROL PANELS VIA A DISPLAY MOUNTED ON THE FRONT DOOR (FOR EXAMPLE: DISTECH CONTROLS' HORIZON-C DISPLAYS OR EQUAL).
10. EACH DATA MANAGER PRIMARY CONTROL PANEL SHALL CONTINUOUSLY PERFORM SELF-DIAGNOSTICS ON ALL HARDWARE MODULES AND NETWORK COMMUNICATIONS. THE PRIMARY CONTROL PANEL SHALL PROVIDE BOTH LOCAL AND REMOTE ANNUNCIATION OF ANY DETECTED COMPONENT FAILURES, OR REPEATED FAILURE TO ESTABLISH COMMUNICATION WITH ANY SYSTEM.

DATA MANAGER SOFTWARE

1. FURNISH SOFTWARE TO FORM COMPLETE OPERATING SYSTEM FOR BUILDING AND ENERGY MANAGEMENT. DATA MANAGER SOFTWARE
2. DDC SOFTWARE SHALL BE CAPABLE TO HOST AN UNLIMITED AMOUNT OF DATA MANAGER OR PRIMARY CONTROLLER FOR EXPANDABILITY (E.G. EC-NET 4 SUPERVISOR UNL OR EQUAL).
3. ALL PROGRAMS POINTS SHALL BE IDENTIFIED BY A 30 CHARACTER NAME AND A 16 CHARACTER POINT DESCRIPTOR. THE SAME NAMES SHALL BE DISPLAYED AT BOTH THE DATA MANAGER CONTROL PANEL(S) (VIA PORTABLE TERMINAL) AND THE VIRTUAL RACK SERVER OR ANY UI WORKSTATION(S). MULTI-SYSTEM CONSISTENCY ON POINT NAMES SHOULD BE MAINTAINED.
4. TREND DATA SHALL BE STORED AT THE DATAMANAGER CONTROL PANELS AND AUTOMATICALLY UPLOADED TO THE VIRTUAL DDC RACK SERVER.
5. UPLOADS SHALL OCCUR BASED ON USER-DEFINED INTERVALS, MANUAL COMMANDS, OR AUTOMATICALLY WHEN THE TREND BUFFER IS 80% FULL. ALL TREND DATA SHALL BE AVAILABLE FOR USE IN ANY 3RD PARTY PERSONAL, COMPUTER APPLICATIONS LOCATED IN THE DDC.

SECONDARY CONTROL PANEL HARDWARE

1. EACH SECONDARY CONTROL PANEL SHALL OPERATE AS A STAND-ALONE CONTROLLER CAPABLE OF PERFORMING ITS USER SELECTABLE CONTROL ROUTINES INDEPENDENTLY OF ANY OTHER CONTROLLER IN THE SYSTEM. EACH SECONDARY CONTROL PANEL SHALL BE A MICROPROCESSOR-BASED, MULTI-TASKING, REAL-TIME DIGITAL CONTROL PROCESSOR.
2. EACH SECONDARY CONTROL PANEL SHALL INCLUDE ALL POINT INPUTS AND OUTPUTS NECESSARY TO PERFORM THE SPECIFIED CONTROL SEQUENCES. THE SECONDARY CONTROLLER SHALL ACCEPT INPUT AND PROVIDE OUTPUT SIGNALS THAT COMPLY WITH INDUSTRY STANDARDS. CONTROLLERS UTILIZING PROPRIETARY CONTROL SIGNALS SHALL NOT BE ACCEPTABLE. OUTPUTS MAY BE UTILIZED EITHER FOR 2-STATE, MODULATING, FLOATING OR PROPORTIONAL CONTROL, ALLOWING FOR ADDITIONAL SYSTEM FLEXIBILITY.
3. CONTROL APPLICATIONS; OPERATING PROGRAMS SHALL BE FIELD SELECTABLE FOR SPECIFIC APPLICATIONS. IN ADDITION, SPECIFIC APPLICATIONS MAY BE MODIFIED TO MEET THE USER'S EXACT CONTROL STRATEGY REQUIREMENTS, ALLOWING FOR ADDITIONAL SYSTEM FLEXIBILITY. CONTROLLERS THAT REQUIRE FACTORY CHANGES OF ALL APPLICATIONS ARE NOT ACCEPTABLE.
4. CONTROLLERS SHALL INCLUDE ALL POINT INPUTS AND OUTPUTS NECESSARY TO PERFORM THE SPECIFIED CONTROL SEQUENCES AS A MINIMUM, 50% OF THE POINT OUTPUTS SHALL BE OF THE UNIVERSAL TYPE, THAT IS, THE OUTPUTS MAY BE UTILIZED EITHER AS MODULATING OR TWO-STATE, ALLOWING FOR ADDITIONAL SYSTEM FLEXIBILITY. IN LIEU OF UNIVERSAL OUTPUTS, PROVIDE A MINIMUM OF 50% SPARE OUTPUTS OF EACH TYPE VIA ADDITIONAL POINT TERMINATION BOARDS OR CONTROLLERS. ANALOG OUTPUTS SHALL BE INDUSTRY STANDARD, ALLOWING FOR INTERFACE TO A VARIETY OF END DEVICES. TERMINAL EQUIPMENT CONTROLLERS UTILIZING PROPRIETARY CONTROL SIGNALS AND ACTUATORS SHALL NOT BE ACCEPTABLE.
5. PROVIDE A SECONDARY CONTROL PANEL FOR EACH OF THE FOLLOWING TYPES OF EQUIPMENT (IF APPLICABLE):
 - ROOFTOP UNITS (UNLESS IT HAS BEEN SPECIFIED AS A FACTORY PROVIDED SECONDARY CONTROLLER WITH INTEGRATED CAPABILITY)
 - AHU (UNLESS IT HAS BEEN SPECIFIED AS A FACTORY PROVIDED SECONDARY CONTROLLER WITH INTEGRATED CAPABILITY)
 - VARIABLE AIR VOLUME (VAV) BOXES
 - VRF CONDENSING UNITS AND FAN COIL UNITS
 - PERIMETER HEATING CONTROLS
 - HEAT EXCHANGER SYSTEM
 - HEAT PUMP SYSTEMS
 - HYDRONIC PUMPS
 - RADIANT FLOOR SYSTEM
 - AC UNITS (UNLESS IT IS A FACTORY PROVIDED SECONDARY CONTROLLER WITH INTEGRATED CAPABILITY)
 - UNIT/CABINET UNIT HEATERS.
 - EXHAUST FANS.
 - OTHER TERMINAL CRITICAL EQUIPMENT.
6. EACH SECONDARY CONTROL PANEL SHALL, AT A MINIMUM, BE PROVIDED WITH:
 - APPROPRIATE NEMA RATED ENCLOSURE FOR ITS APPLICATION.
 - A STAND-ALONE REAL-TIME DIGITAL CONTROL MICROPROCESSOR MODULE.
 - BUILT-IN DISPLAY OR DOOR MOUNTED TYPE (WITH THE EXCEPTION OF VAV CONTROLLERS)
 - SECONDARY NETWORK COMMUNICATIONS ABILITY.
 - POWER SUPPLIES AS REQUIRED FOR ALL ASSOCIATED MODULES, SENSORS, ACTUATORS, ETC.
 - EXPANSION CAPABILITIES
7. THERE SHALL BE PROVISIONS FOR BURRO HAPPOLD TO HAVE REMOTE ACCESS VIA A USERNAME AND PASSWORD TO THE DDC SYSTEM FOR THE COLLECTION OF DATA PERFORMANCE OF ALL SYSTEM.

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Key Plan

Description	Date
50% Design Development	02/24/20
100% Design Development	05/29

GENERAL NOTES

- DRAWINGS ARE PRESENTED HERE AT A 50% CONSTRUCTION DOCUMENTS LEVEL. WHERE DETAIL IS NOT YET SHOWN, PROVIDE ALL COMPONENTS REQUIRED FOR A FULLY FUNCTIONAL HVAC SYSTEM INCLUDING, BUT NOT LIMITED TO:
- THERMOSTATS FOR ALL ZONES ASSOCIATED WITH HEATING AND COOLING UNITS
 - CO2 SENSORS IN ALL DENSELY OCCUPIABLE AREAS
 - FACTORY PACKAGED CONTROLS FOR ALL COMPLEX EQUIPMENT.
 - FULL STORM KING FACILITY CENTRAL BUILDING MANAGEMENT SYSTEM, CONNECTING ALL CURRENT AND FUTURE BUILDINGS, AS DESCRIBED ON THE MECHANICAL COVER SHEET
 - BALANCING DAMPERS AT ALL AIR TERMINALS
 - ACOUSTIC DUCT LINING 10FT UPSTREAM AND DOWNSTREAM OF ALL FANS
 - DUCT SILENCERS AT ALL DUCT CONNECTIONS TO AIR HANDLING UNITS AND ROOF MOUNTED UNITS
 - FIRE DAMPERS AND FIRE/SMOKE DAMPERS AT ALL DUCT PENETRATIONS THROUGH RATED WALLS.
 - INSULATION ON ALL AIR DUCT, HYDRONIC PIPES AND REFRIGERANT PIPES
 - DOUBLE-WALL CONSTRUCTION ON ALL EXPOSED DUCT VISIBLE FROM OCCUPIED SPACES.
 - SHUTOFF VALVES AT ALL PIPED COMPONENTS
 - SPRING VIBRATION ISOLATION AT ALL EQUIPMENT WITH MOVING PARTS
 - FIRESTOPPING OF ALL DUCT AND PIPE PENETRATIONS THROUGH ALL WALLS
 - HEAT TRACING FOR ALL HYDRONIC PIPING OUTSIDE OF THE BUILDING ENVELOPE
 - CONDENSATE DRAIN PIPING FROM ALL COOLING COILS TO DRAIN (INCLUDE CONDENSATE PUMPS WHERE NECESSARY FOR GRAVITY DRAIN)
 - AUXILIARY DRIP PANS AND LEAK DETECTION UNDERNEATH ANY HYDRONIC EQUIPMENT (INCLUDING ASSOCIATED VALVING/TRIM)
 - AIRFLOW MONITORING STATIONS ON AHUS
 - VFDS FOR ANY FAN OR PUMP MOTOR WHICH IS NOT AN ECM
 - ACOUSTICALLY LINED RETURN AIR TRANSFER DUCTWORK ABOVE CEILINGS WHERE WALLS EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.
 - ALL COMPONENTS REQUIRED FOR A FULLY FUNCTIONAL VRF SYSTEM INCLUDING VALVING AND CONTROL WIRING

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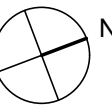
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Key Plan



Description	Date
50% Design Development	02/24/20
100% Design Development	05/29/20
50% Construction Documents	11/06/20

Project

Storm King
Art Center
Pond Pavilion

Seal

NOT FOR CONSTRUCTION

Drawing Title

Duct Plan - Ground
Level

Date	11/06/20
Scale	1/4" = 1'-0"
Drawing Number	M-P-101
Sheet Size	ARCH D

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Key Plan



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50% Design Development	02/24/20
100% Design Development	05/29/20
50% Construction Documents	11/06/20

Project

Storm King
Art Center
Pond Pavilion

Seal

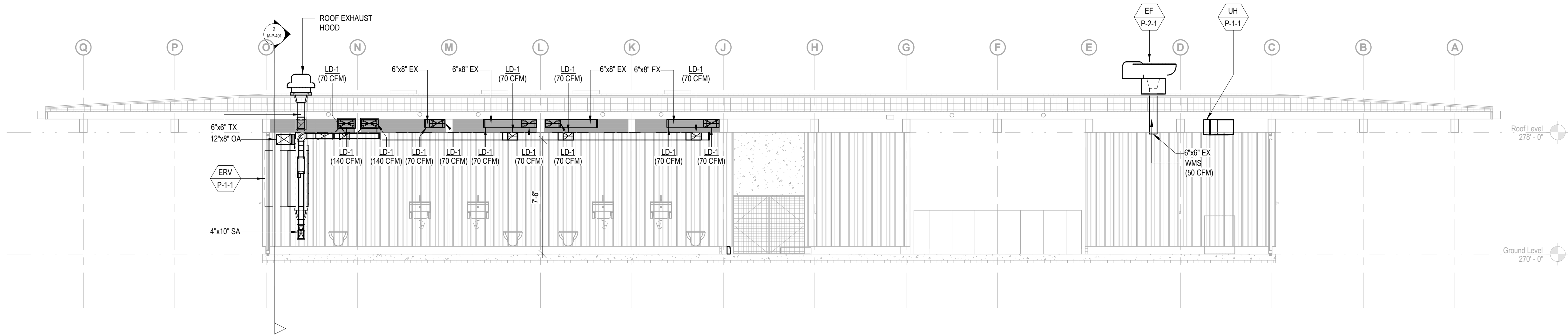
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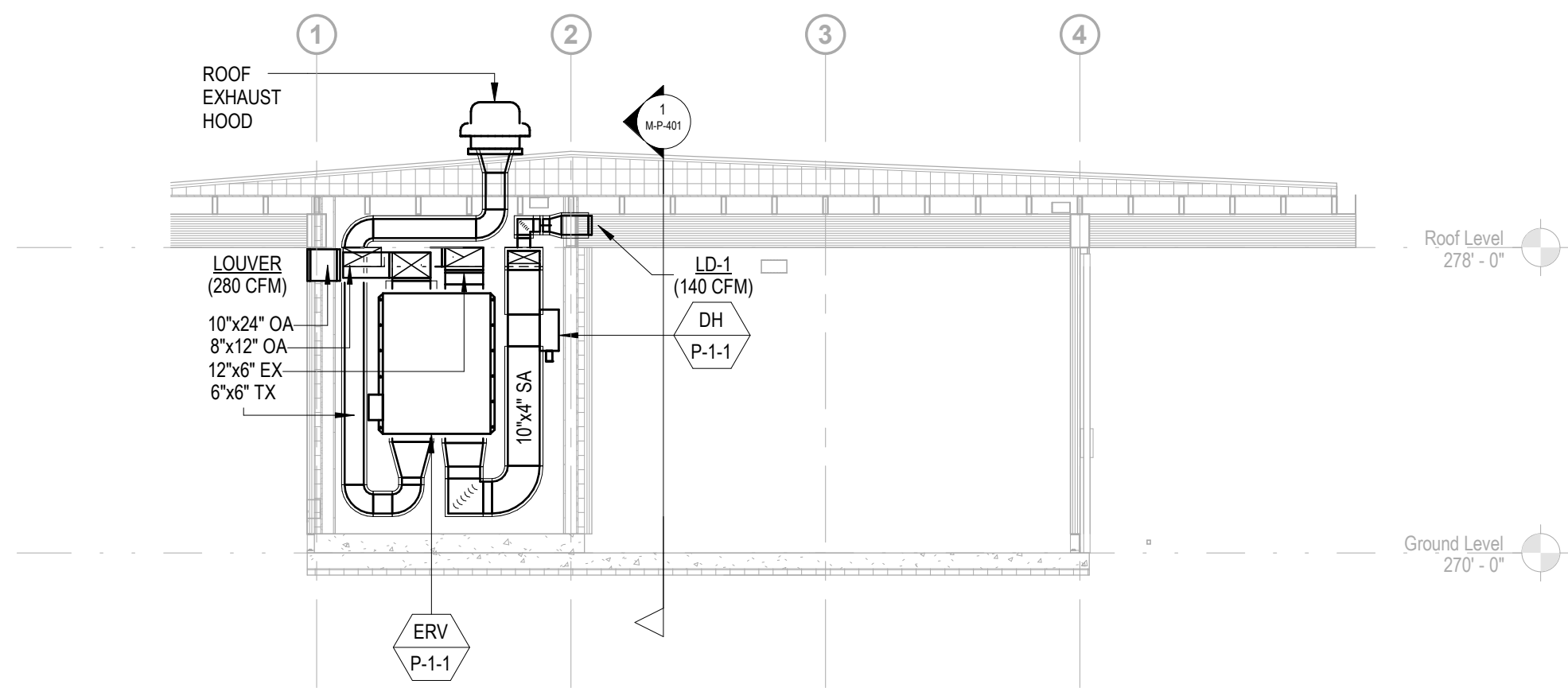
Duct Plan - Roof
Level

Date	11/06/20
Scale	1/4" = 1'-0"
Drawing Number	M-P-102
Sheet Size	ARCH D





1 MECHANICAL SECTION - POND PAVILLION
SCALE 1/4" = 1'-0"



2 MECHANICAL SECTION - MER ROOM
SCALE 1/4" = 1'-0"

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Key Plan

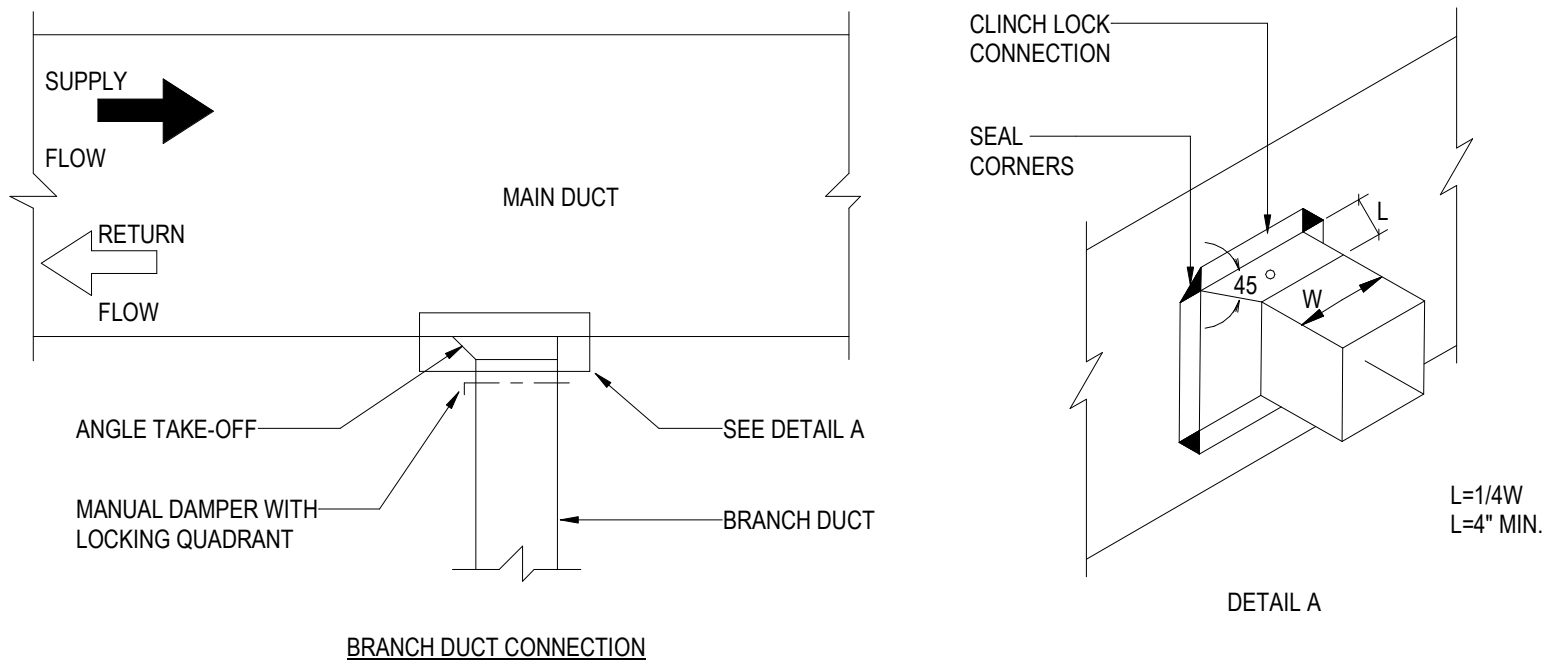
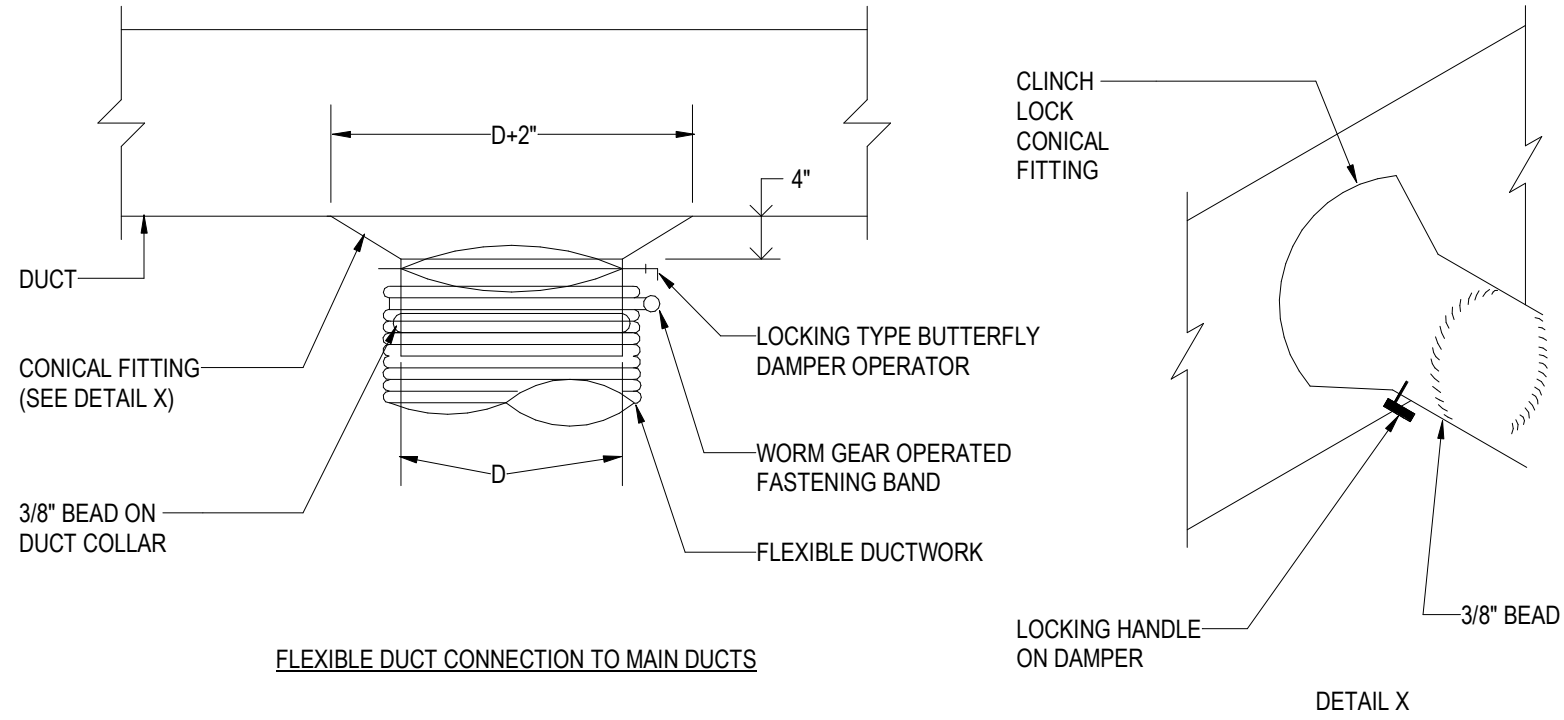
Description	Date
100% Design Development	05/29/20
50% Construction Documents	11/06/20

Project
Storm King
Art Center
Pond Pavilion

Seal

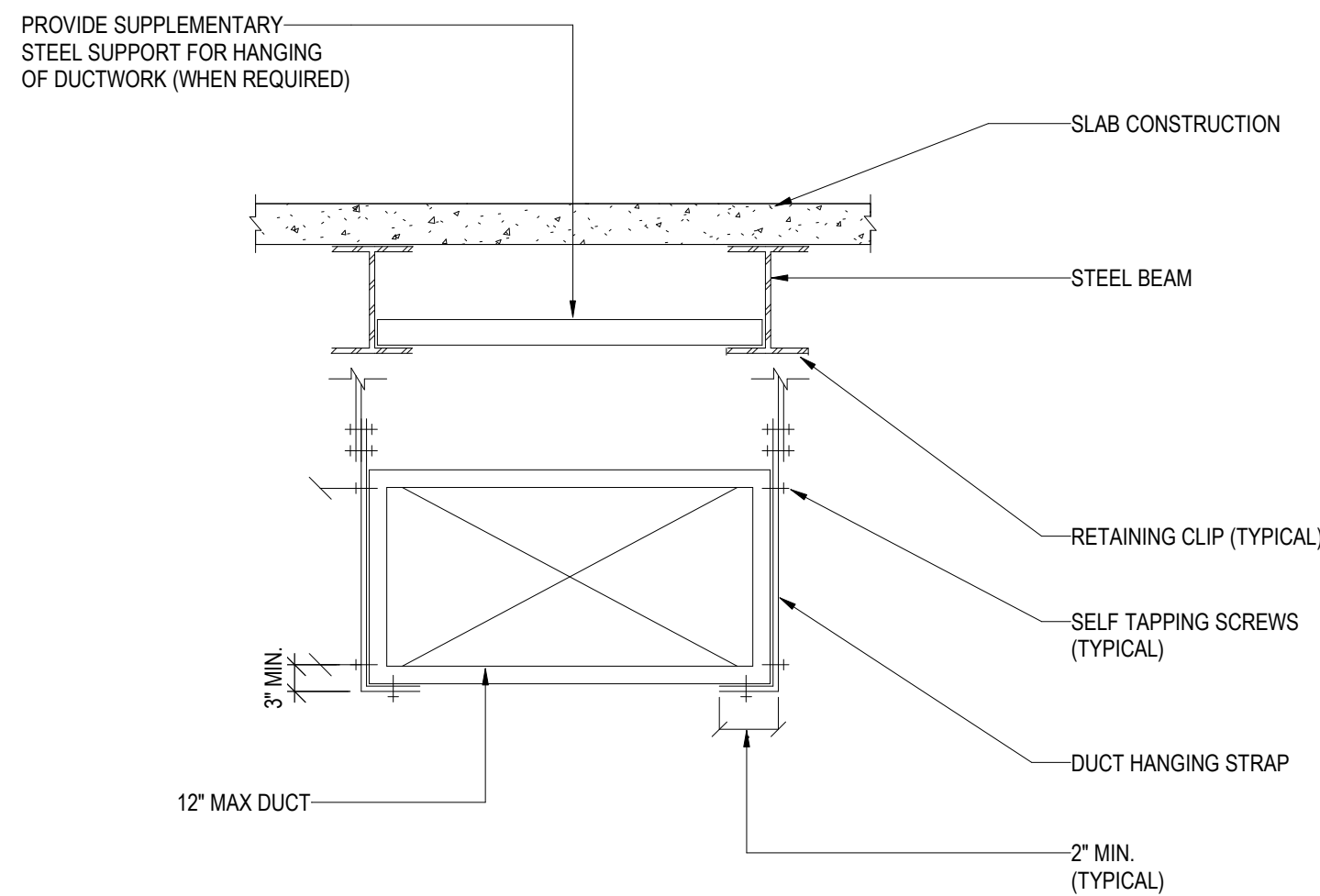
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Drawing Title
Mechanical Sections

Date	11/06/20
Scale	1/4" = 1'-0"
Drawing Number	M-P-401
Sheet Size	ARCH D



1 LOW PRESSURE BRANCH DUCT CONNECTIONS

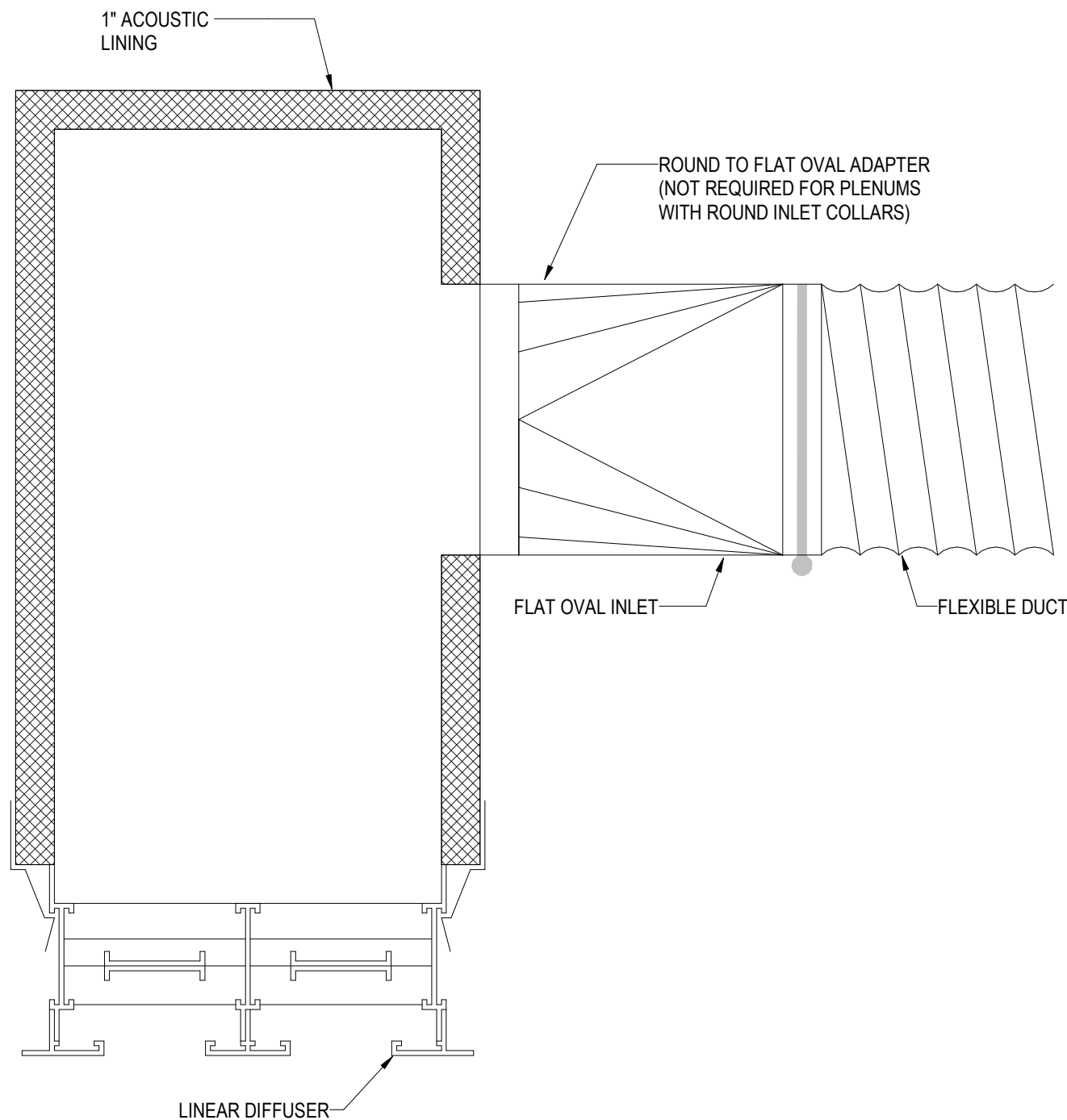
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NOTES:
1. DUCT SHALL BE SUSPENDED WITH GALVANIZED BAND IRON STRAPS SECURELY FASTENED TO THE BOTTOM AND SIDE OF THE DUCT. STRAPS TO BE SIZED IN ACCORDANCE WITH SMACNA TABLE 4-1 OR ACCORDING TO LOCAL CODES, WHICHEVER IS MORE STRINGENT.
2. DUCTS WIDER THEN 60 INCHES TO BE SUPPORTED BY THE TRAPEZE ANGLES IN ACCORDANCE WITH SMACNA TABLE 4-3.
3. REFERENCE SHALL ALSO BE MADE TO SPECIFICATION SECTION 230548

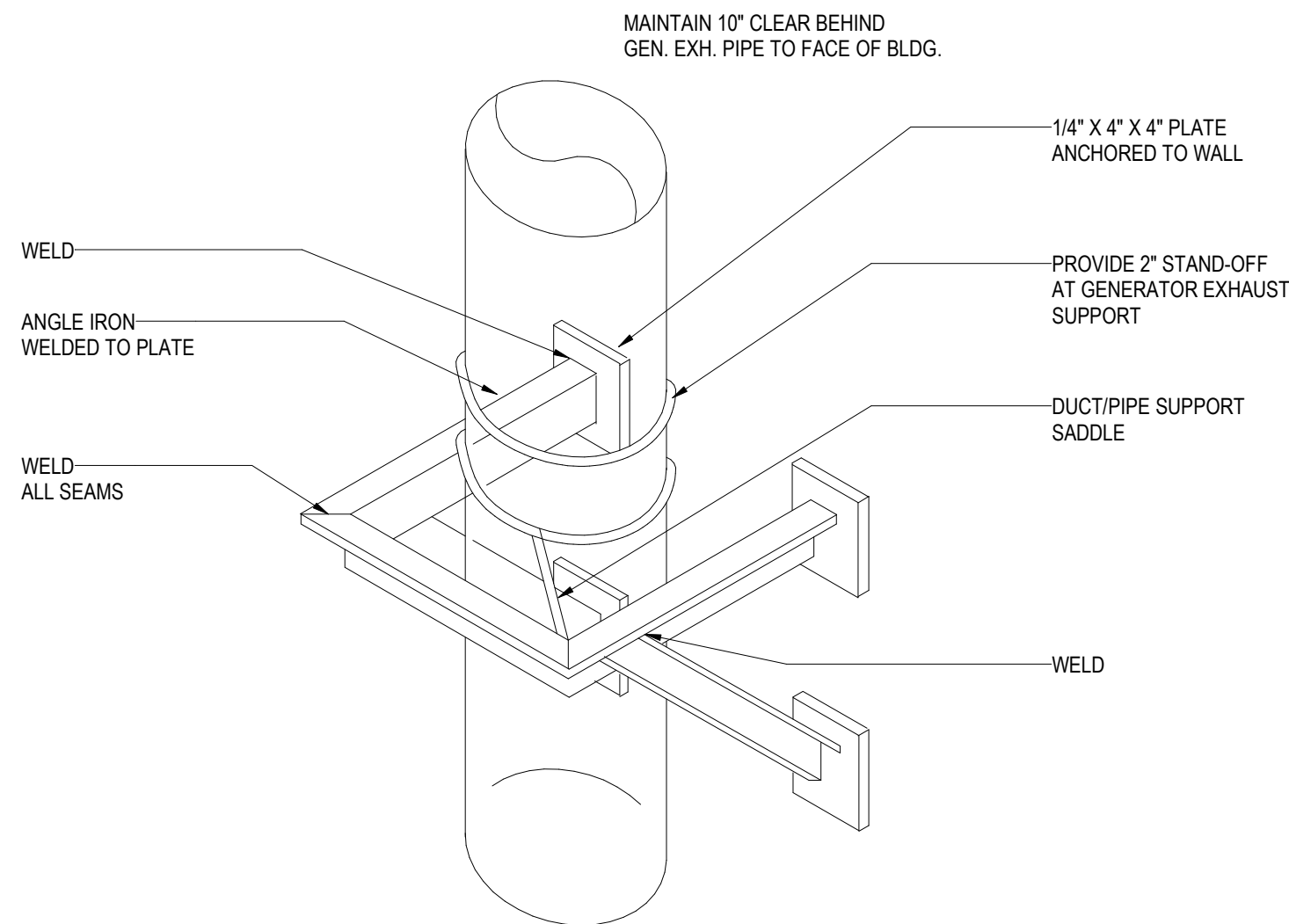
4 DUCT HANGING FROM STRUCTURAL STEEL

NOT TO SCALE



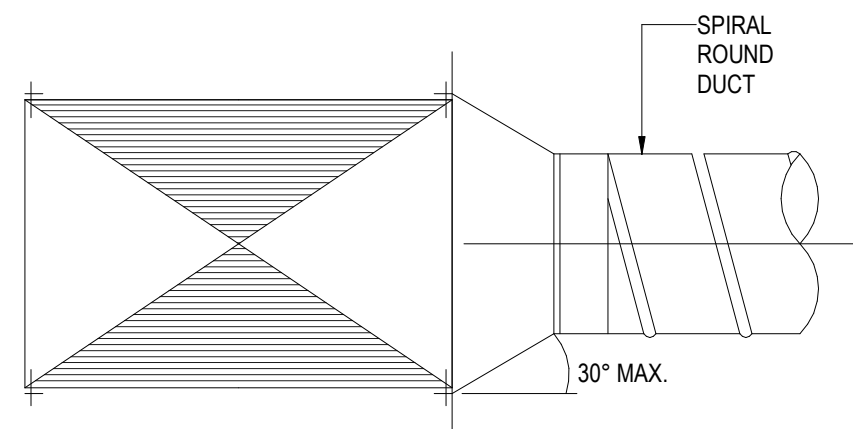
5 LINEAR DIFFUSER PLENUM

NOT TO SCALE

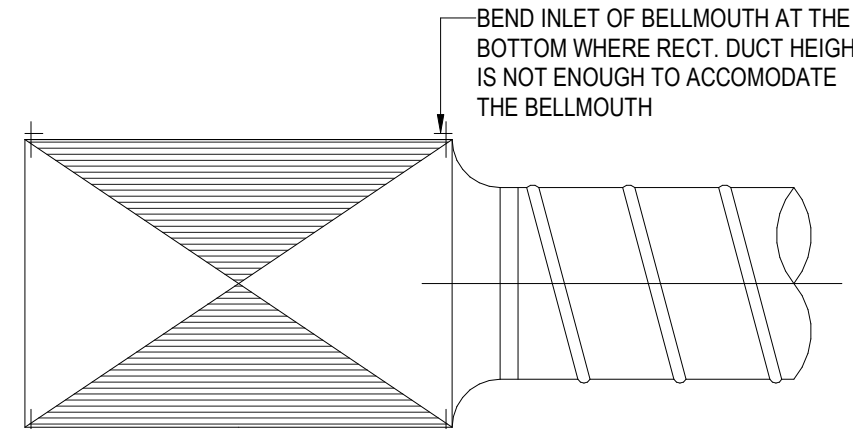


3 SUPPORT SYSTEM FOR VERTICAL DUCTS

NOT TO SCALE



CONICAL



BELLMOUTH

NOTE:
1. SECURE ALL CONNECTIONS TO COMPLY WITH THE REQUIREMENTS OF THE PRESSURE CLASS SPECIFIED.
2. SUPPLY ROUND DUCT TAKE-OFF IS SHOWN. RETURN/EXHAUST SIMILAR.
3. *SPIN-INS* PERMITTED ONLY WIDUCT CONSTRUCTION OF 2" W.C. OR LESS.

6 ROUND TAKE OFF CONNECTION FROM RECTANGULAR

NOT TO SCALE

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50% Construction Documents	11/06/20

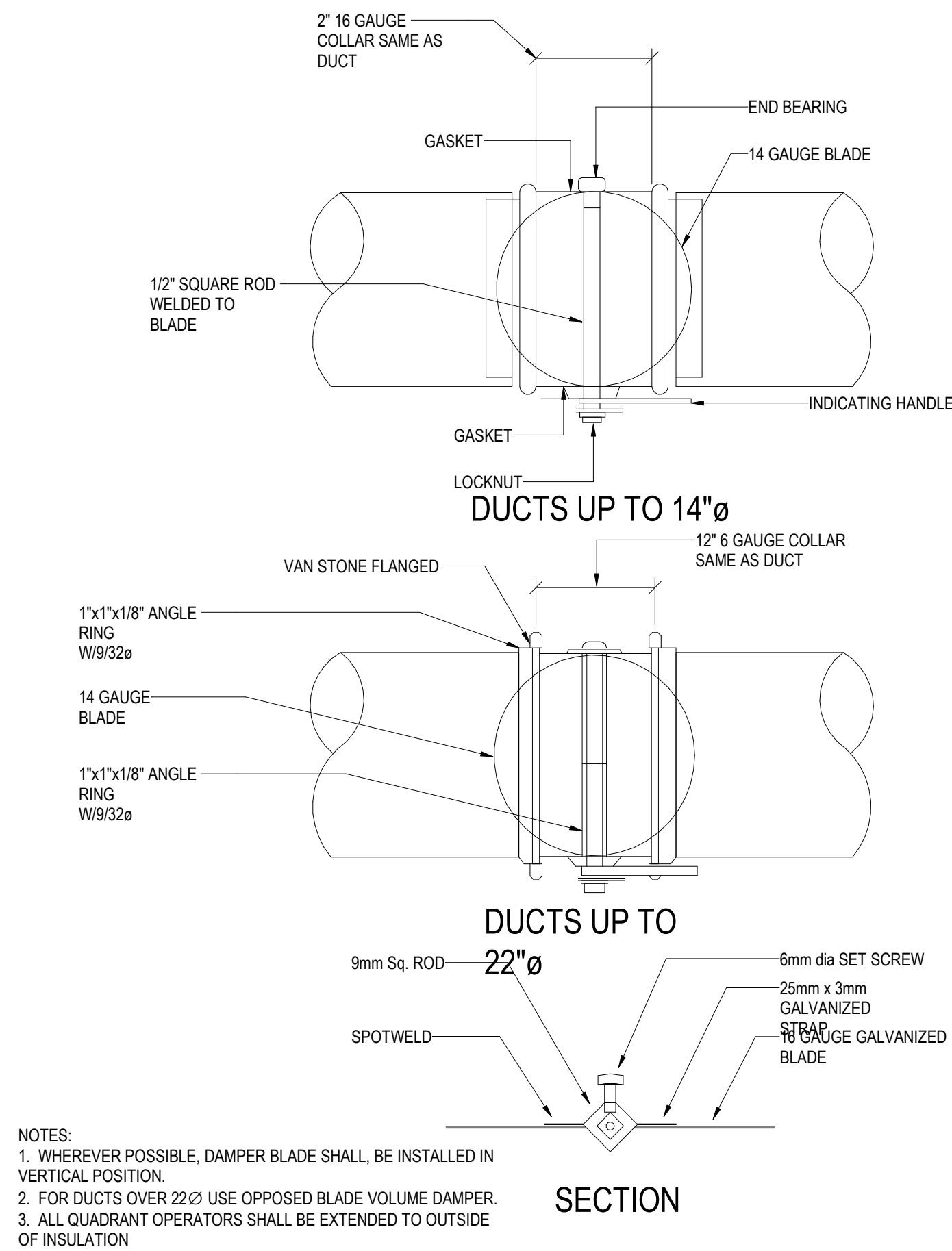
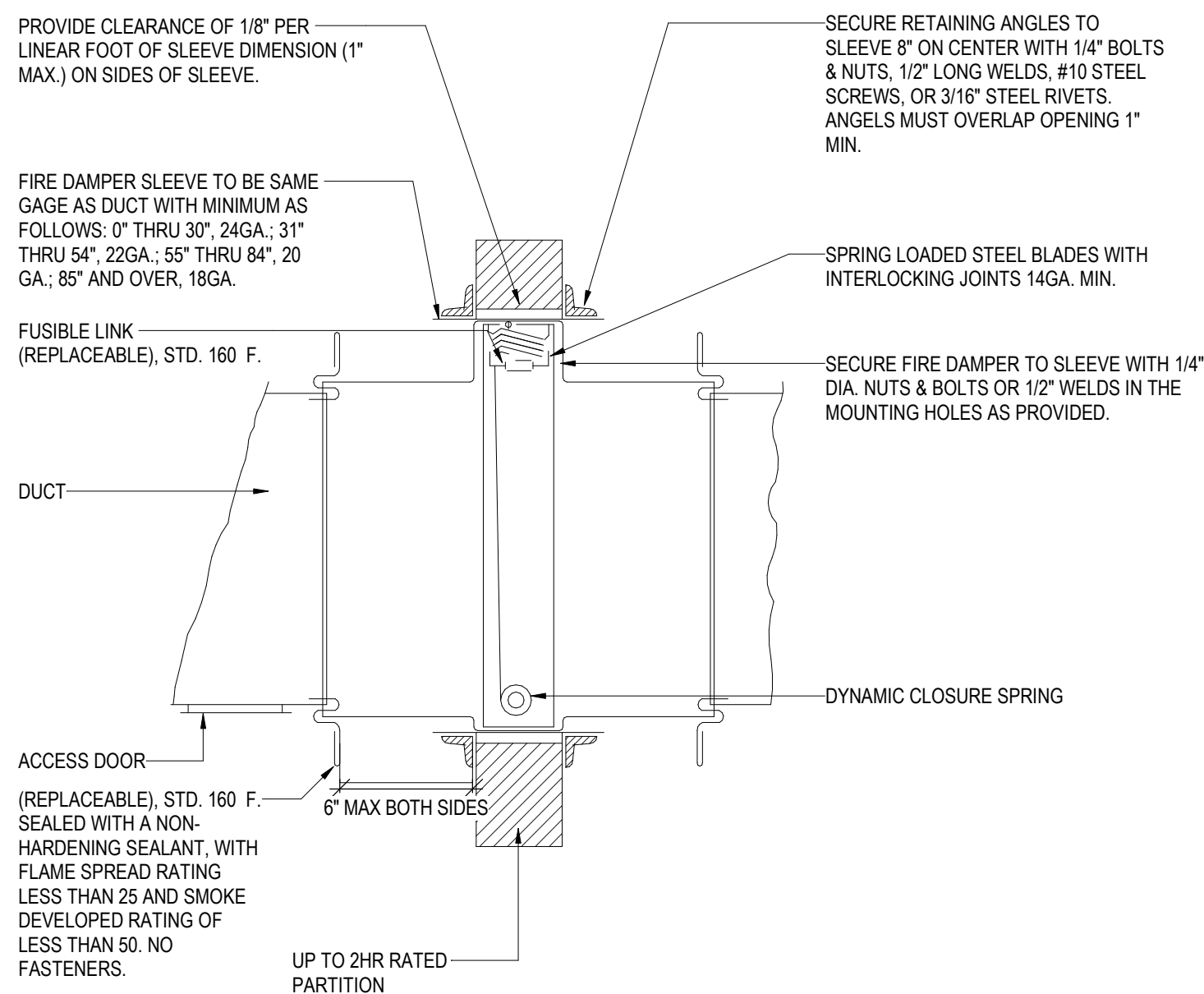
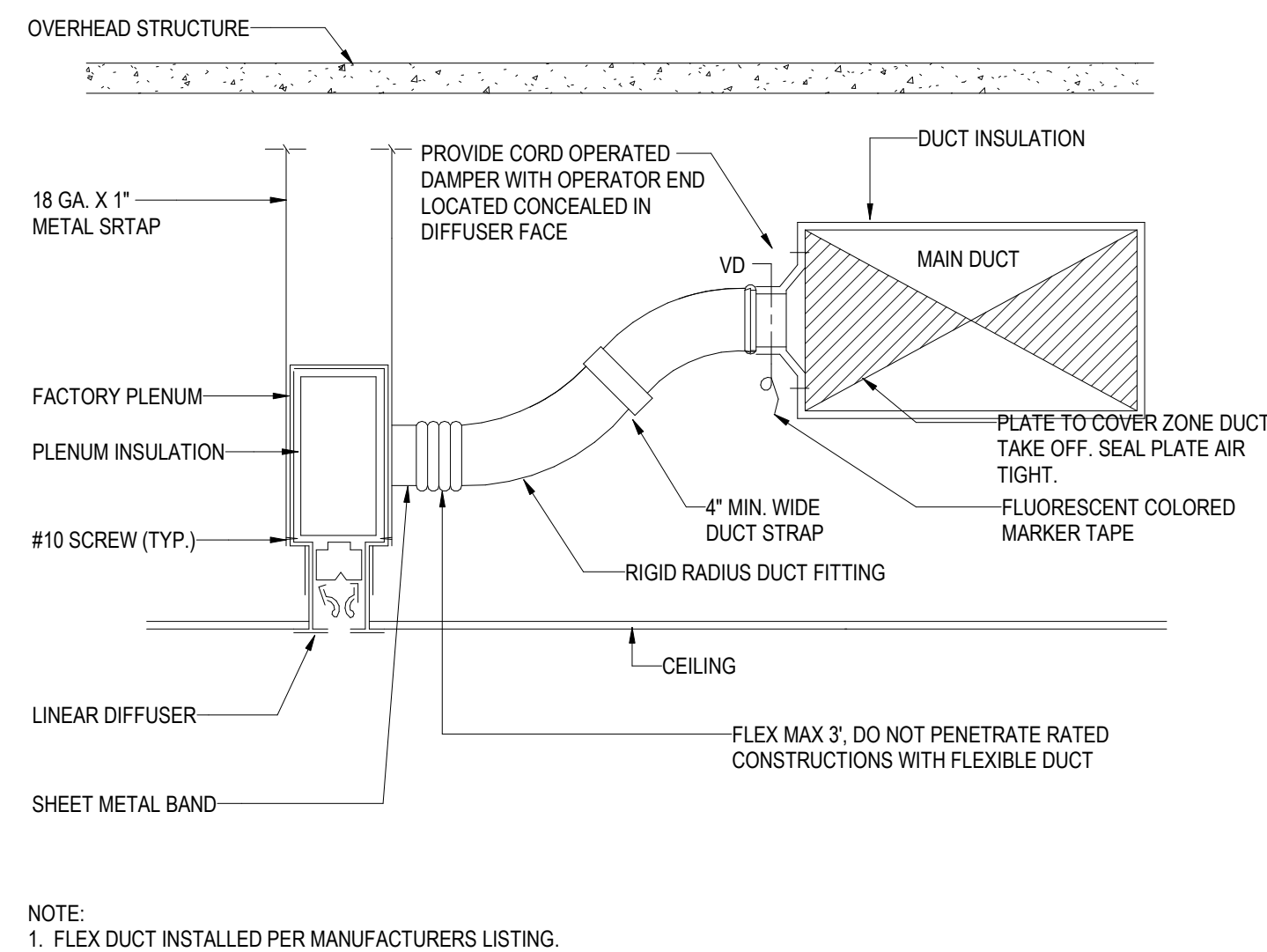
Project

Storm King
Art Center
Pond Pavilion

Seal

NOT FOR CONSTRUCTION
Drawing Title
Mechanical Details

Date	11/06/20
Scale	Not to Scale
Drawing Number	M-P-501
Sheet Size	ARCH D



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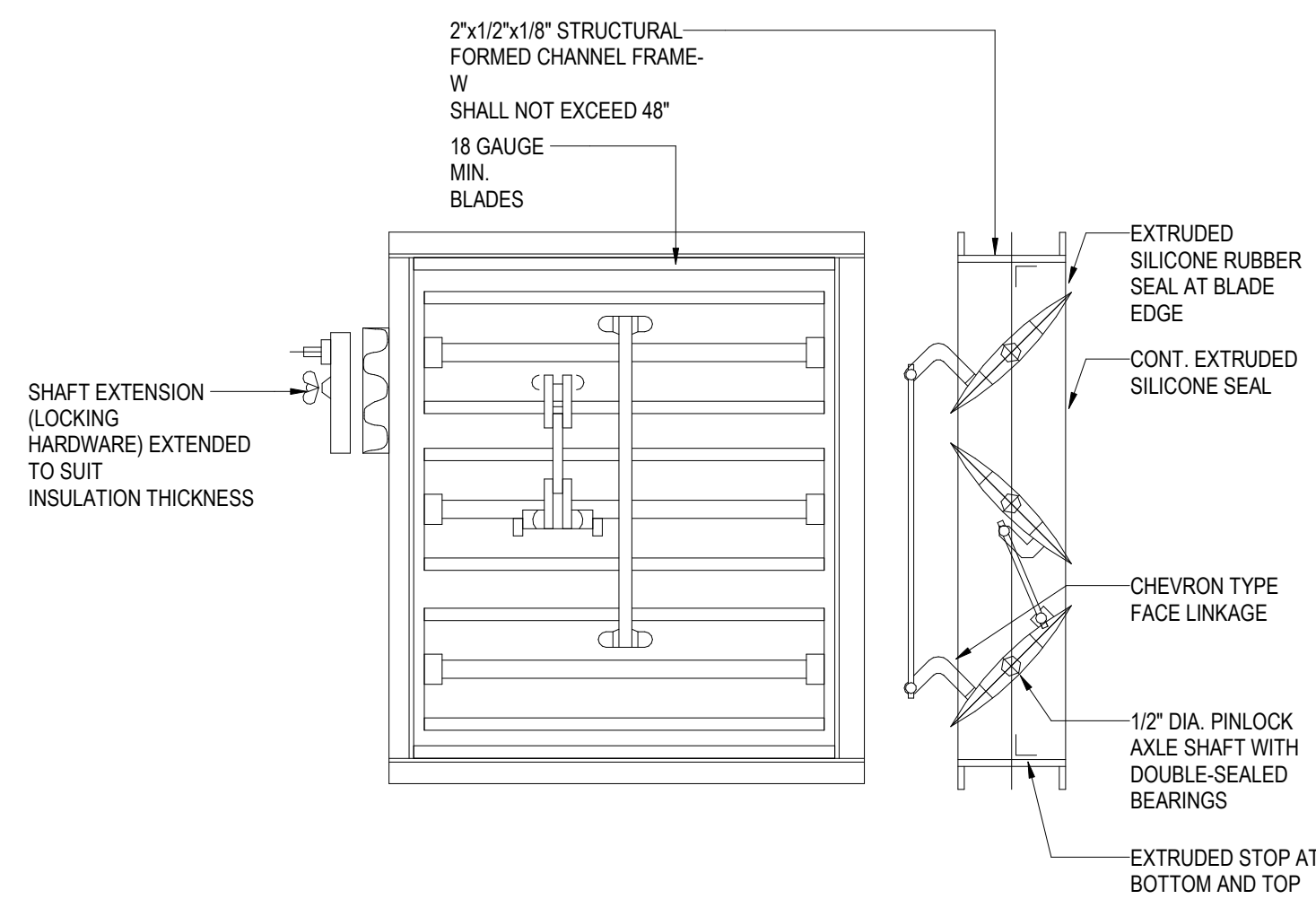
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Key Plan

1 LINEAR DIFFUSER CONNECTION

NOT TO SCALE



OPPOSED BLADE ACTION DAMPER

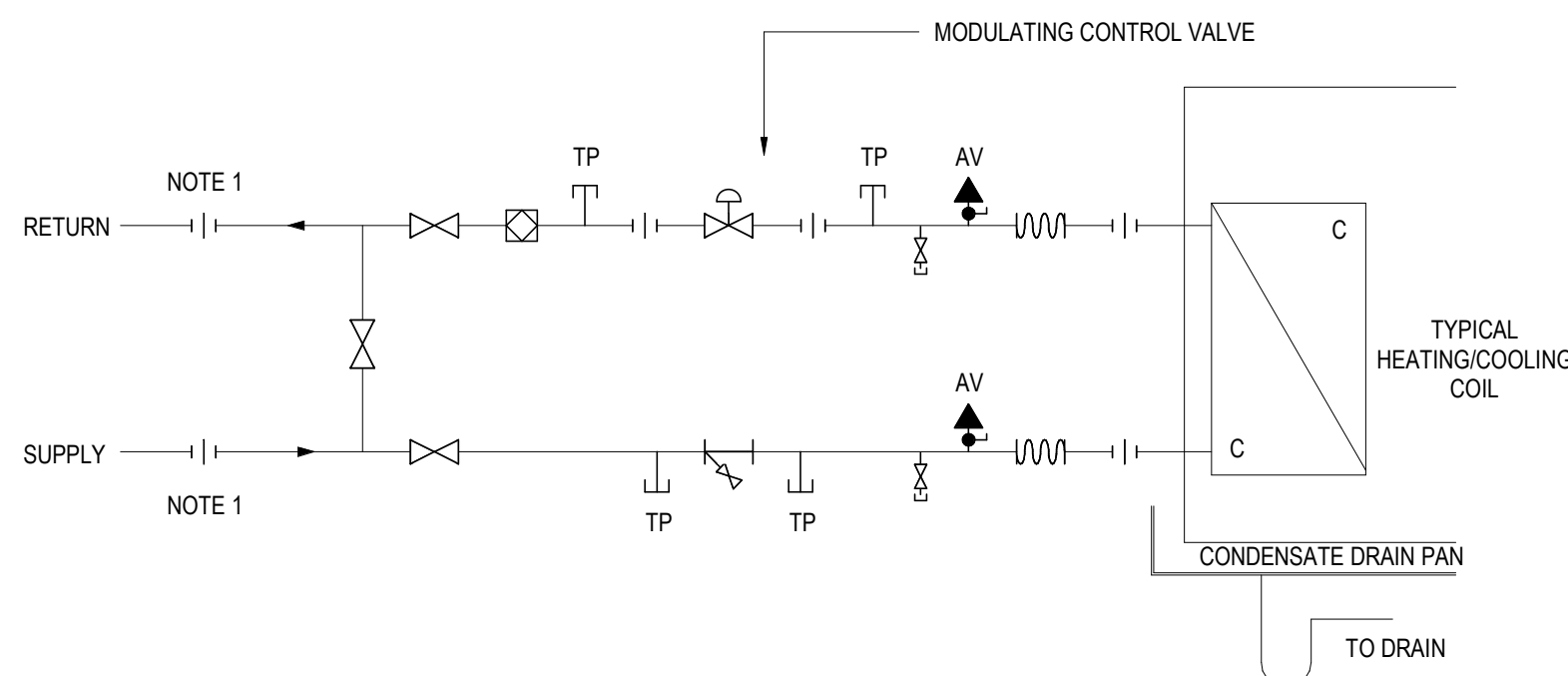
NOTES:
1. ALL BRANCH DUCTS SHALL HAVE VOLUME DAMPERS

4 OPPOSED BLADE ACTION DAMPER

NOT TO SCALE

2 DYNAMIC FIRE DAMPER

NOT TO SCALE

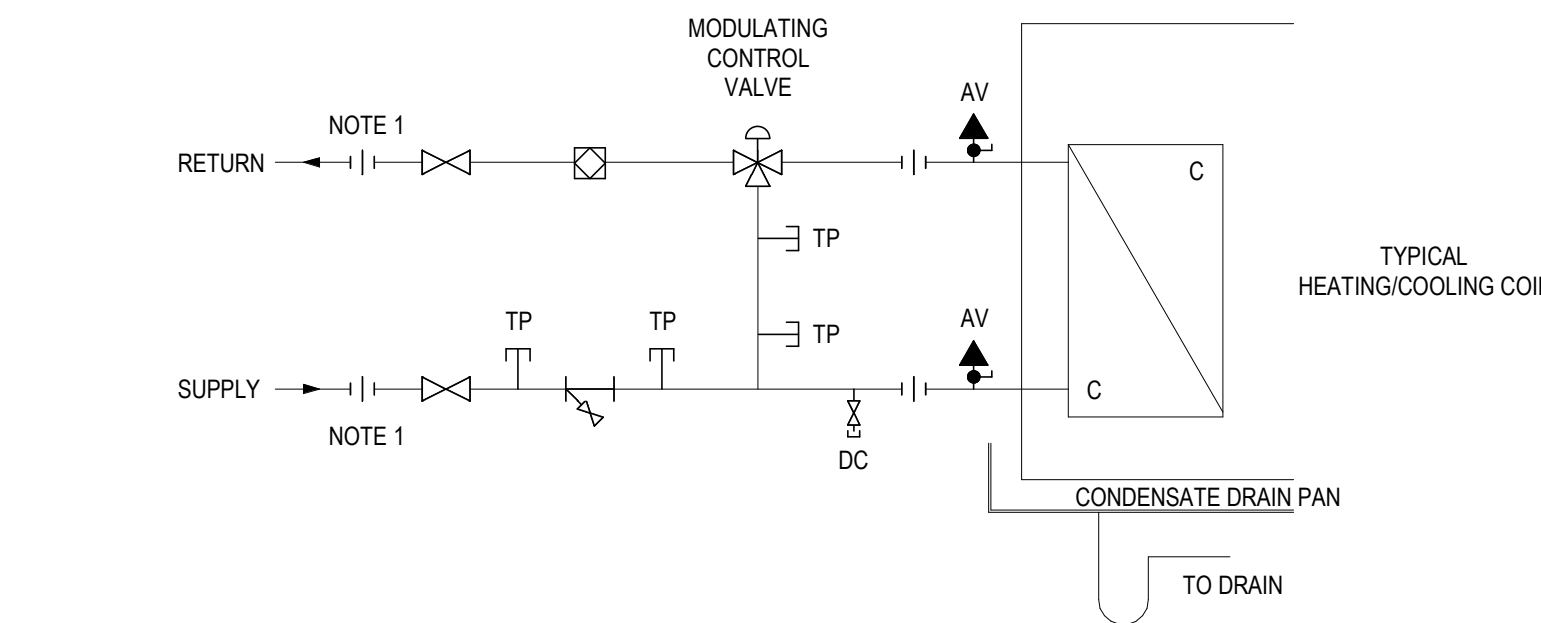


NOTE:
1. ELECTROLYTICALLY ISOLATED COUPLING

ADDITIONALLY:
ALL VALVES AND FITTINGS SHALL BE LINE SIZE

 FCU AND VAV HEATING OR COOLING 2 WAY VALVE

NOT TO SCALE



NOTE:
1. ELECTROLYTICALLY ISOLATED COUPLING

ADDITIONALLY:
- ALL VALVES AND FITTINGS SHALL BE LINE SIZE

6 FCU AND VAV HEATING OR COOLING 3 WAY VALVE

NOT TO SCALE

Description	Date
50% Design Development	02/24/20
100% Design Development	05/29/20
50% Construction Documents	11/06/20

Project

Storm King
Art Center
Pond Pavilion

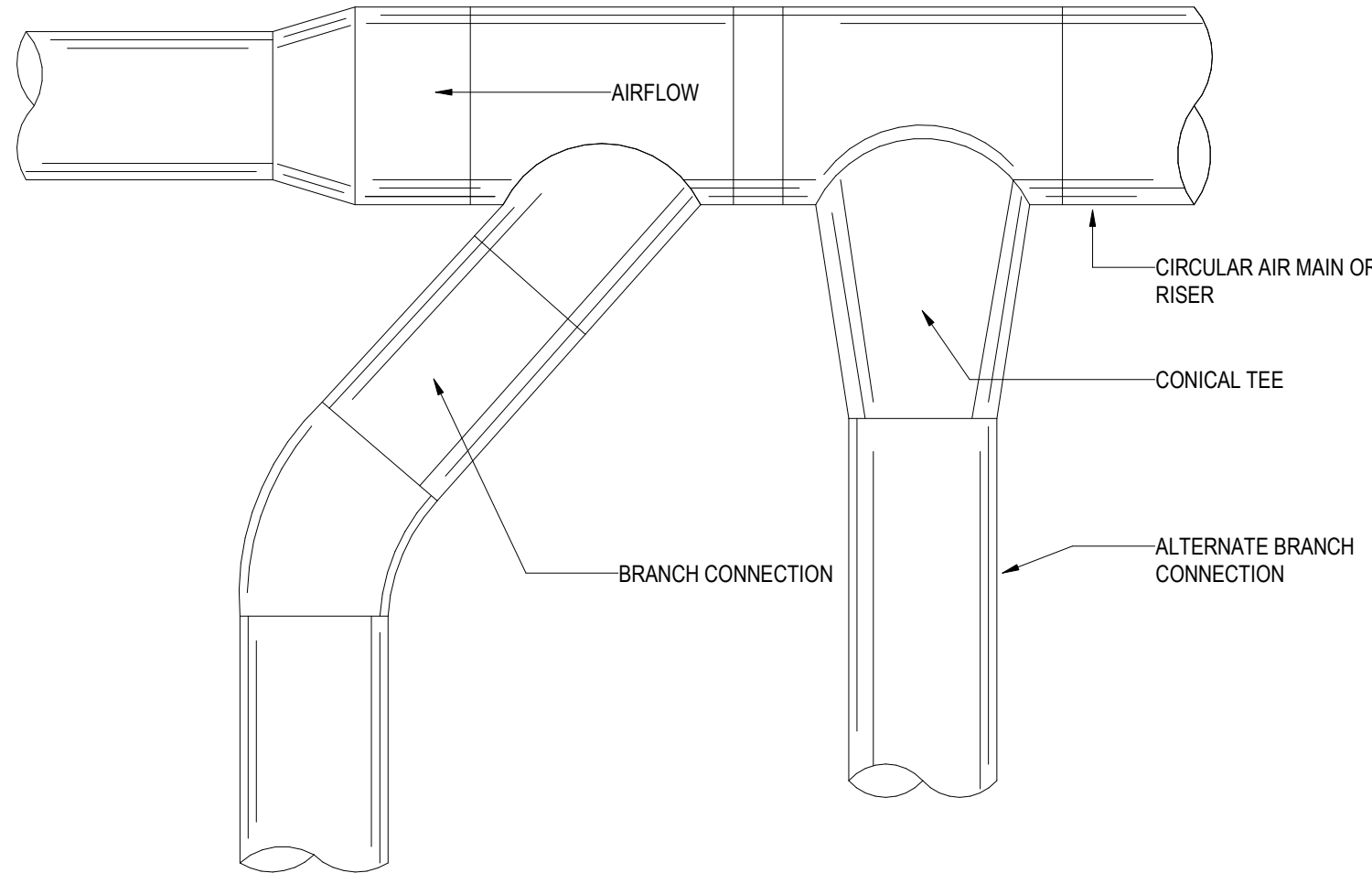
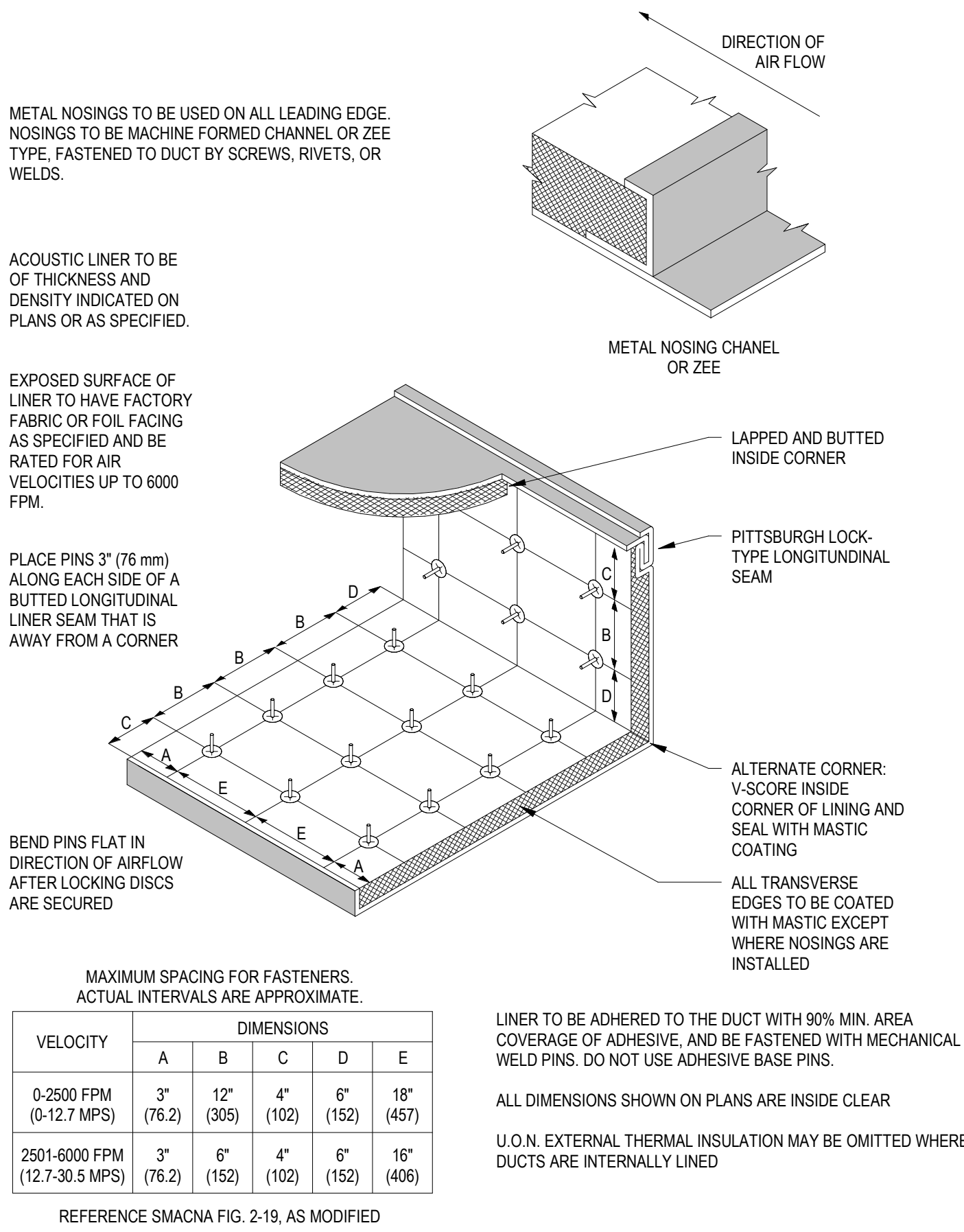
Seal

NOT FOR CONSTRUCTION

Drawing Title

Mechanical Details

Date	11/06/20
Scale	Not to Scale
Drawing Number	M-P-502
Sheet Size	ARCH D

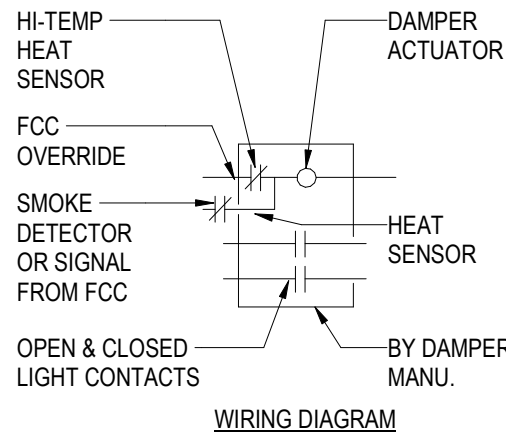
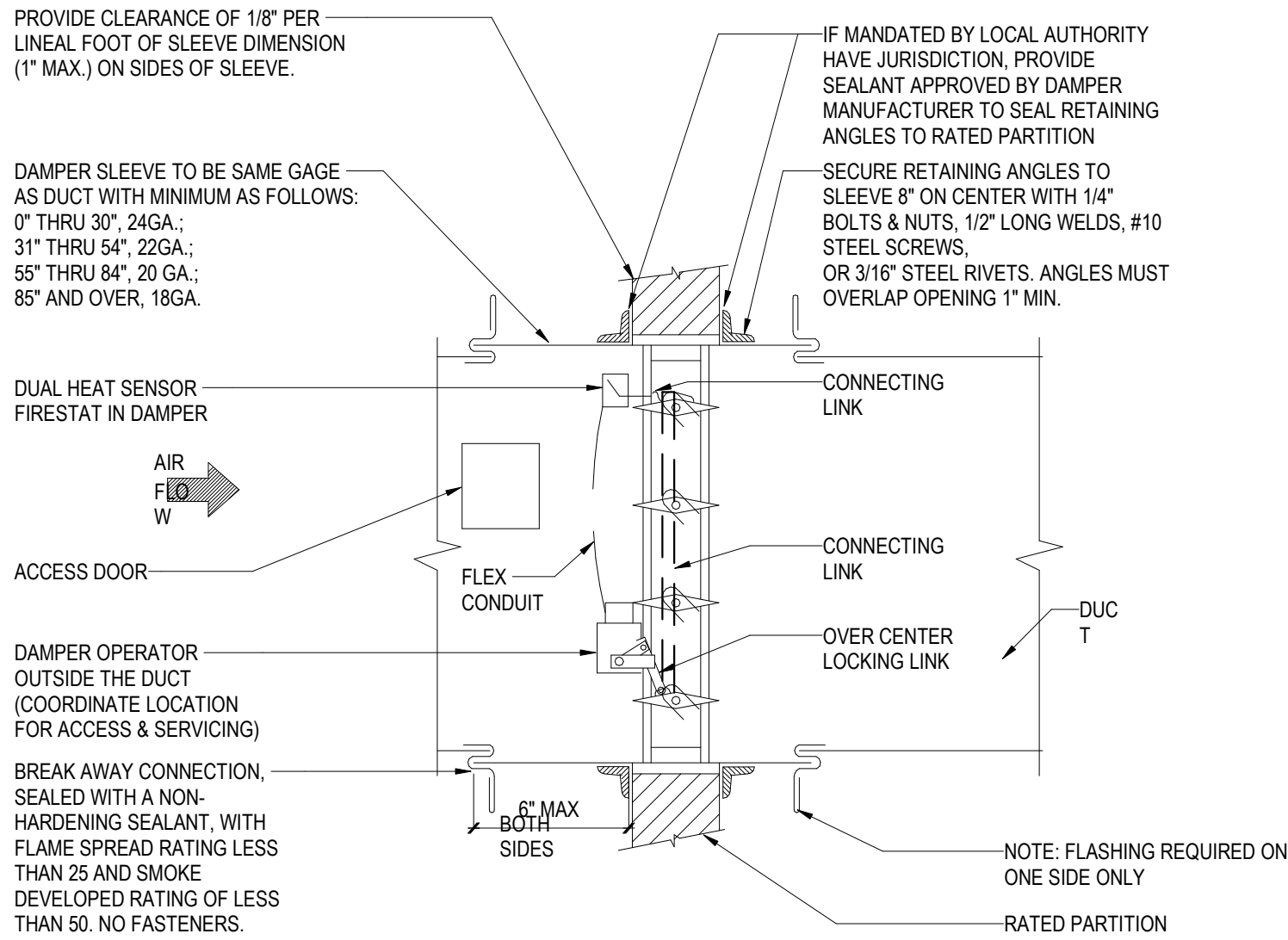


2 DUCTWORK ACOUSTIC LINING

NOT TO SCALE

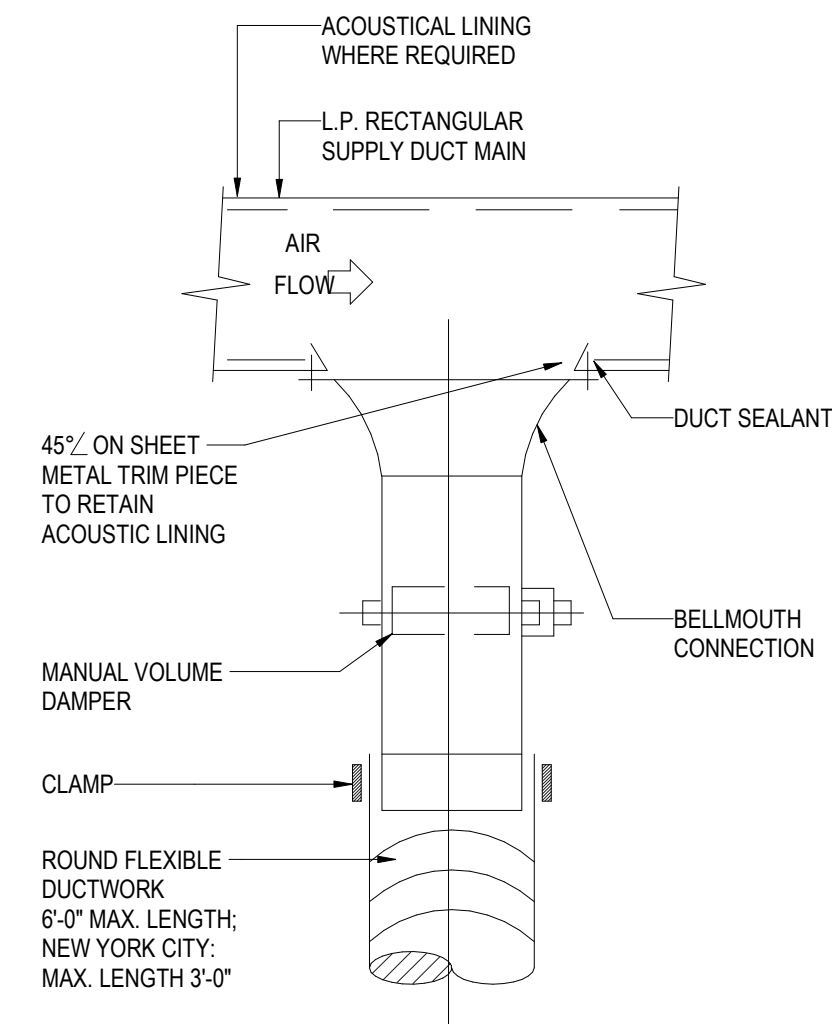
3 CIRCULAR DUCT CONNECTIONS

NOT TO SCALE



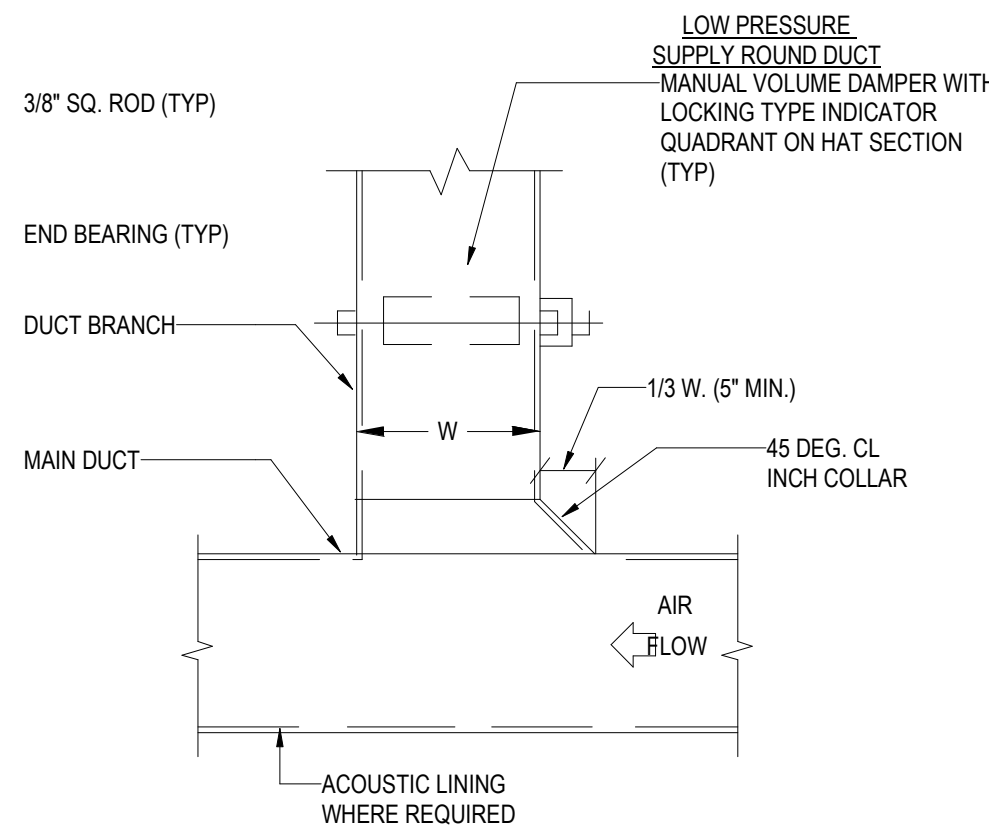
NOTES:

- DAMPER TO BE U.L. LABELED N.F.P.A. 90A APPROVED.
- N.F.P.A. APPROVED INSTALLATION DETAILS TO BE PART OF SUBMISSION OF COMBINATION FIRE & SMOKE DAMPER FOR APPROVAL, WHICH SHALL MEET N.F.P.A. STANDARD 90A.
- DETAILS SHOWN ARE FOR COMBINATION FIRE SMOKE DAMPERS IN HORIZONTAL DUCTWORK. FOR DAMPERS IN VERTICAL DUCTWORK, DETAIL IS SIMILAR.
- INSTALL DAMPER IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
- ACTUATOR TO HAVE AN ADDRESSABLE DAMPER POSITION INDICATOR.



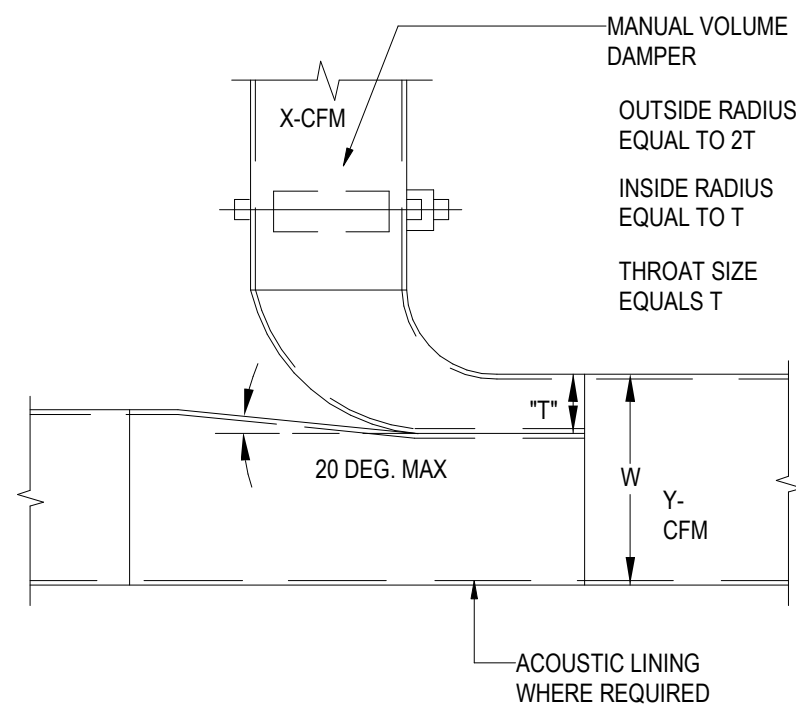
NOTE:

FLEXIBLE DUCT CONNECTIONS ARE ONLY PERMITTED IN AREAS WITH PNC-35 OR GREATER.



NOTE:

FURNISH THIS TYPE CONNECTION WHEN SINGLE-LINE DUCTWORK IS INDICATED AS THIS FOR L-BRANCHES WITH LESS THAN 25% OF THE TOTAL AIR FLOW.



NOTES:

- FURNISH THIS TYPE CONNECTION WHEN SINGLE-LINE DUCTWORK IS INDICATED AS THIS FOR BRANCHES WITH LESS THAN 25% OF THE TOTAL AIR FLOW.
- THIS TYPE OF CONNECTION MUST BE USED WHEN W 36 IN.
- T=X(BRANCH DUCT)x W Y (TOTAL CFM)

4 COMBINATION FIRE AND SMOKE DAMPER

NOT TO SCALE

5 LOW PRESSURE SUPPLY CONNECTION DETAILS

NOT TO SCALE

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Key Plan

Description	Date
50% Design Development	02/24/20
100% Design Development	05/29/20
50% Construction Documents	11/06/20

Project

Storm King Art Center Pond Pavilion

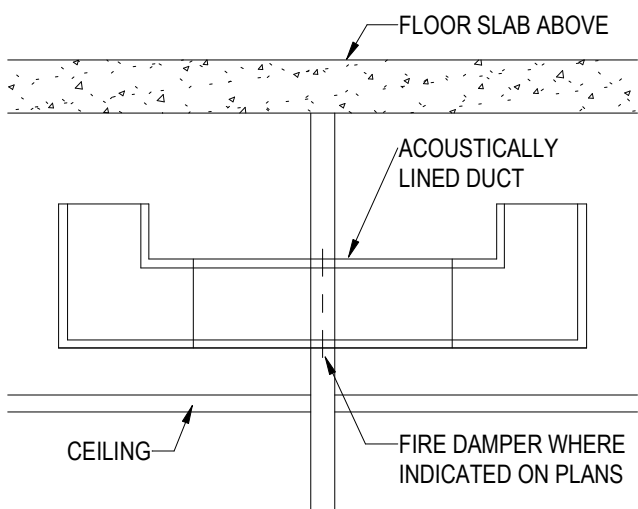
Seal

NOT FOR CONSTRUCTION

Drawing Title

Mechanical Details

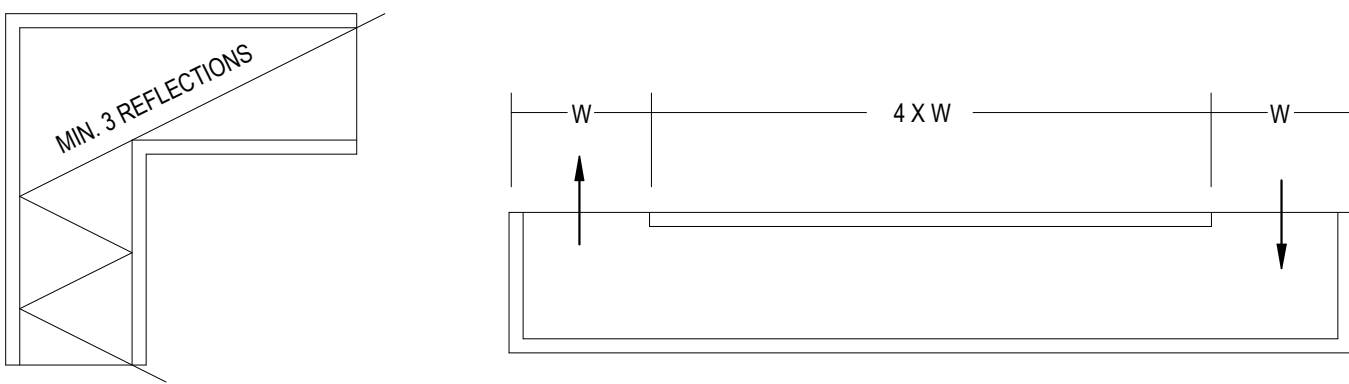
Date	11/06/20
Scale	Not to Scale
Drawing Number	M-P-503
Sheet Size	ARCH D



NOTES:

1. REFER TO DRAWINGS AND SPECIFICATIONS FOR ACOUSTICAL INSULATION THICKNESS AND DENSITY.
2. PROVIDE TRANSFER DUCT WHERE INDICATED ON PLANS.
3. REFER TO SCHEDULE BELOW FOR TRANSFER DUCT SIZE.
4. FOR AIR QUANTITIES IN EXCESS OF 2000 CFM USE MULTIPLE TRANSFER DUCTS
5. TRANSFER DUCT SIZES ARE INSIDE CLEAR
6. EQUIVALENT DUCT SIZES ALLOWED

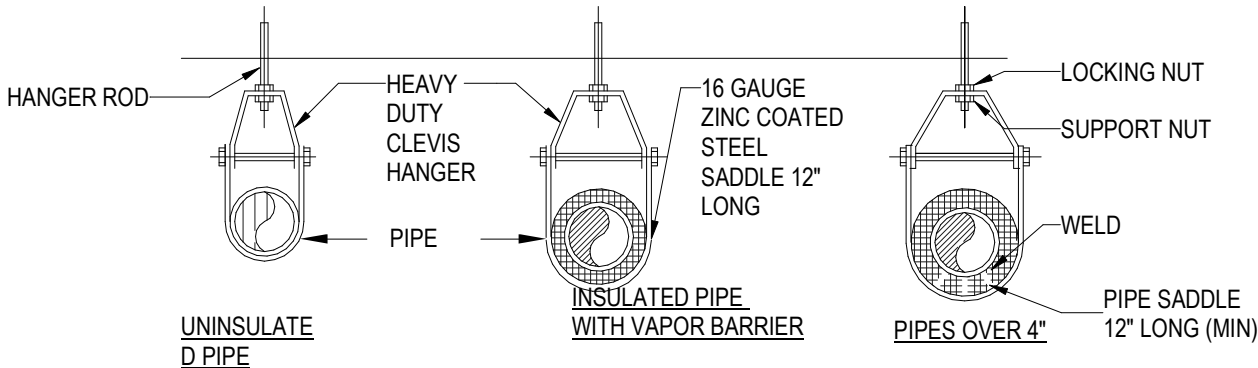
TRANSFER AIR QUANTITY (CFM)	TRANSFER AIR DUCT SIZE (W x H)
0-500	18 x 10
501-1000	20 x 18
1001-1500	30 x 20
1501-2000	30 x 24



1

ACOUSTIC AIR TRANSFER DUCT

NOT TO SCALE

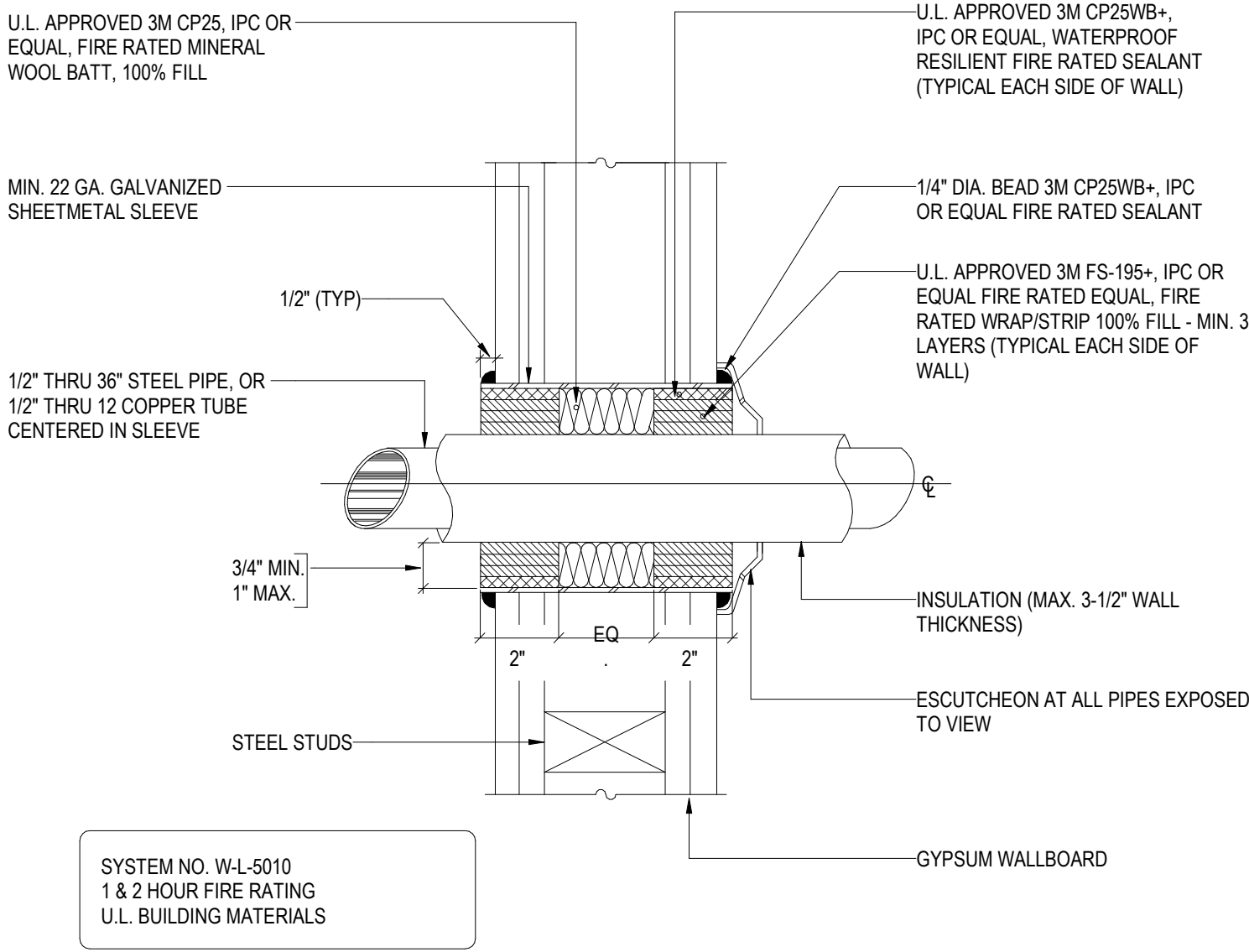


INDIVIDUAL PIPE HANGER ROD & SPACING SCHEDULE											
NOMINAL PIPE OR TUBE SIZE- INCHES	3/4	1	1 1/2	2	2 1/2	3	4	5	6	8	--
HANGER ROD SIZE-INCHES	3/8	3/8	3/8	3/8	1/2	1/2	5/8	5/8	7/8	7/8	--
MAXIMUM SPACING BETWEEN PIPE SUPPORT- FEET	6	7	9	10	11	12	14	16	17	19	--
MAXIMUM SPACING BETWEEN CU. TUBE SUPPORT- FEET	6	6	8	9	10	10	12	14	14	16	--
NOTES: TRAPEZE SPACING SHALL BE BASED ON SPACING OF SMALLEST PIPE ON TRAPEZE. TRAPEZE SHALL BE DESIGNED WITH A FACTOR OF SAFETY 5 FOR CENTER OF SPAN CONCENTRATED LOAD. METHOD OF HANGING, TYPE OF INSERT, BEAM CLAMP, ROD, ETC. MUST BE APPROVED BY STRUCTURAL ENGINEER PER SHOP DRAWINGS.											

4

TYPICAL CLEVIS HANGER SUPPORTS

NOT TO SCALE



6

INSULATED PIPE THROUGH FIRE RATED GYPSUM WALLS

NOT TO SCALE

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Key Plan

Description	Date
50% Design Development	02/24/20
100% Design Development	05/29/20
50% Construction Documents	11/06/20

Project

Storm King Art Center Pond Pavilion

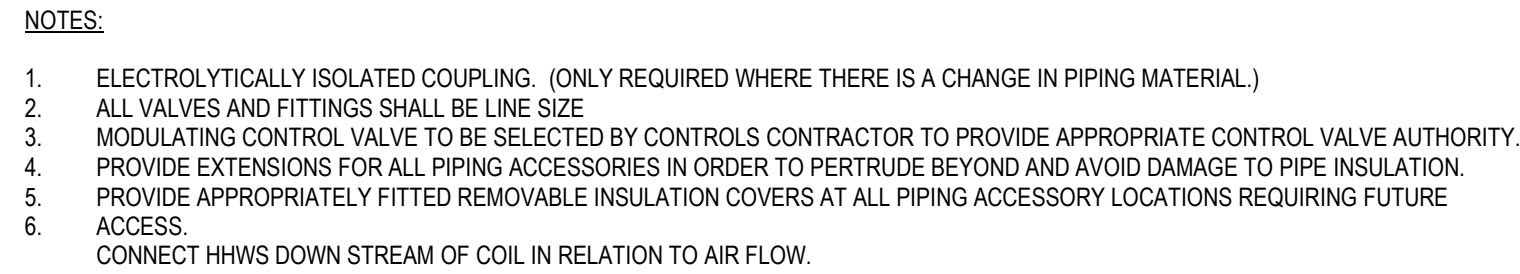
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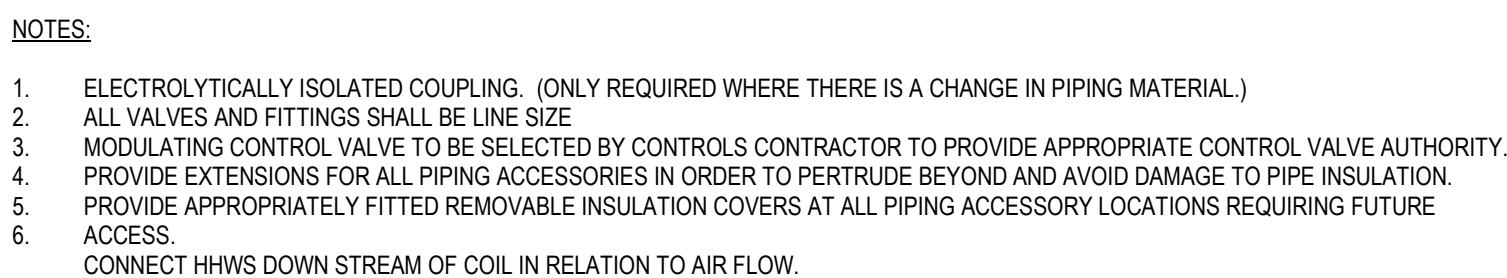
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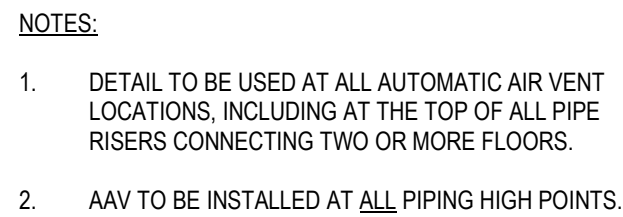
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Drawing Number	M-P-504
Sheet Size	ARCH D



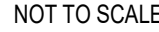
NOT TO SCALE



NOT TO SCALE



NOT TO SCALE



Key Plan

Description	Date
50% Design Development	02/24/20
100% Design Development	05/29/20
50% Construction Documents	11/06/20

Project

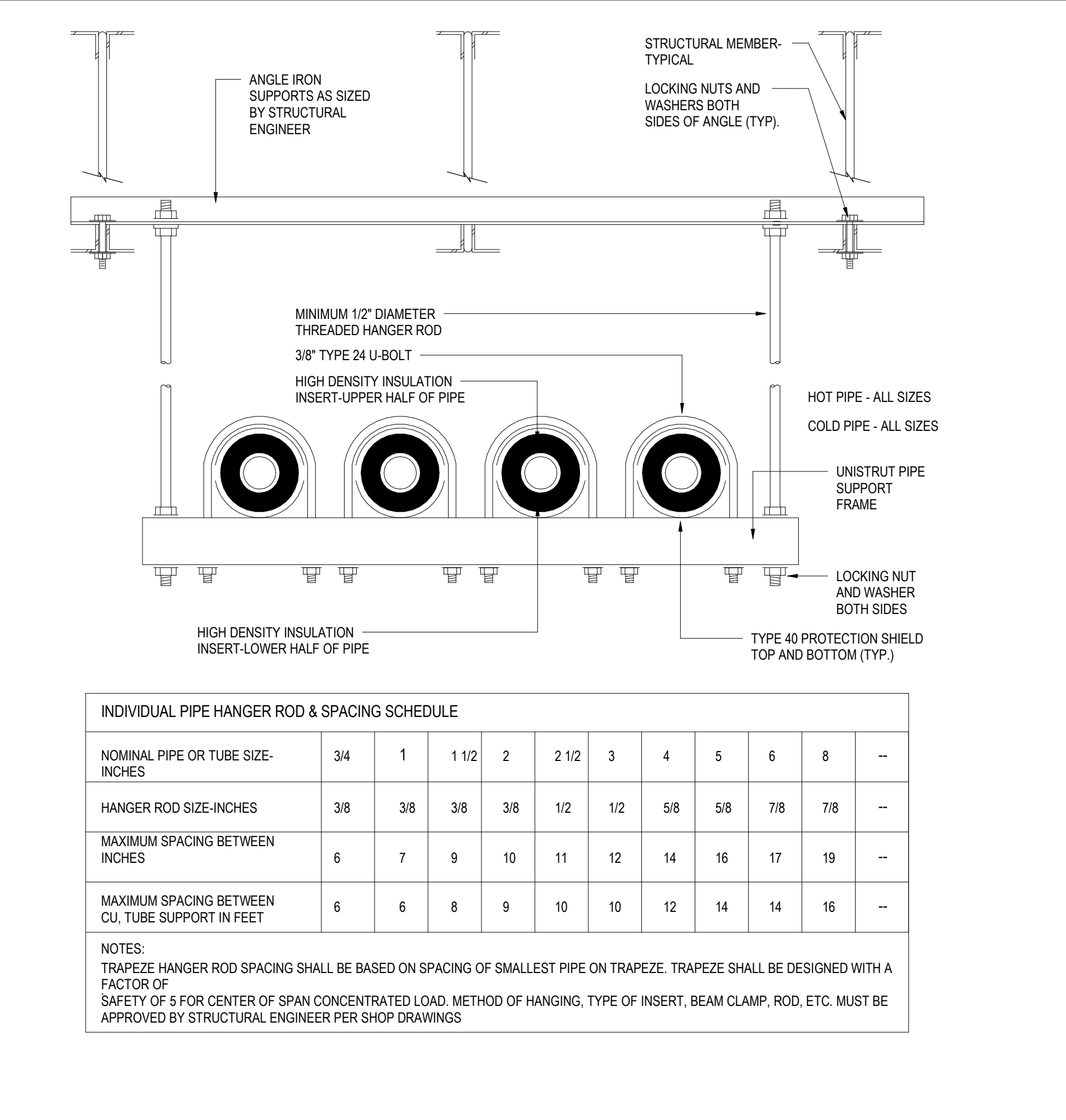
Storm King
Art Center
Pond Pavilion

Seal

NOT FOR CONSTRUCTION

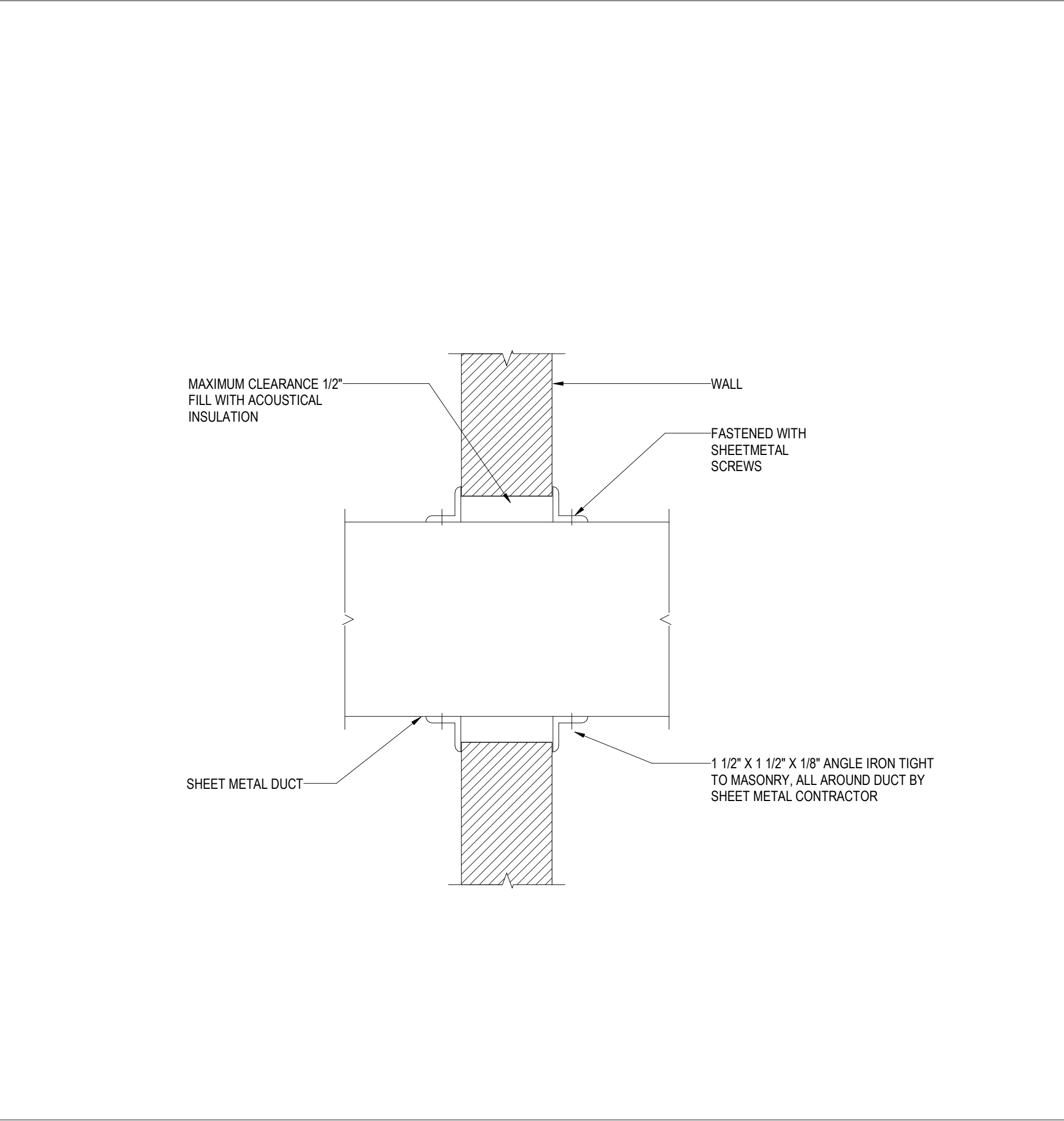
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Mechanical Details

Date	11/06/20
Scale	Not to Scale
Drawing Number	M-P-505
Sheet Size	ARCH D



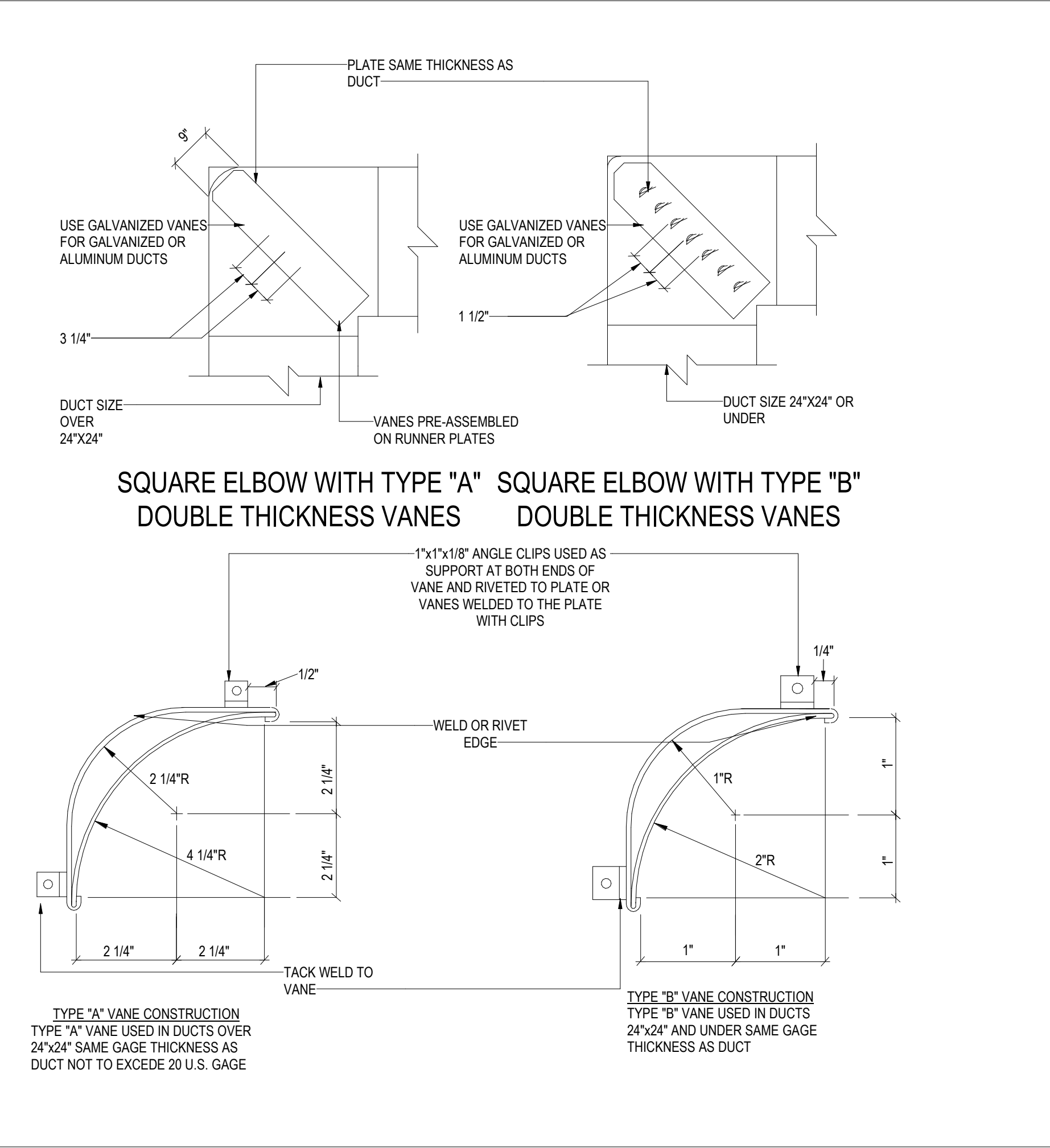
1 TRAPEZE PIPE HANGER (MULTIPLE PIPES)

NOT TO SCALE



4 DUCT PENETRATING NON - RATED WALLS

NOT TO SCALE



5 TURNING VANE CONSTRUCTION (RECTANGULAR)

NOT TO SCALE

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Key Plan

Description	Date
50% Design Development	02/24/20
100% Design Development	05/29/20
50% Construction Documents	11/06/20

Project

Storm King Art Center Pond Pavilion

Seal

NOT FOR CONSTRUCTION

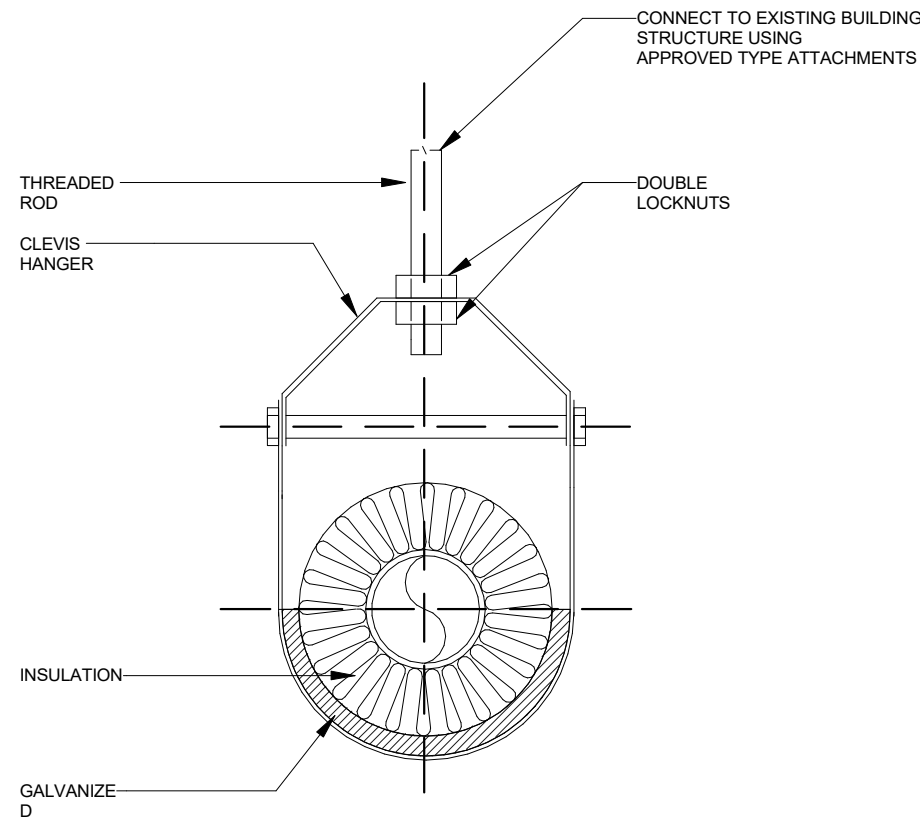
Drawing Title

Mechanical Details

Date	11/06/20
Scale	Not to Scale
Drawing Number	M-P-506
Sheet Size	ARCH D

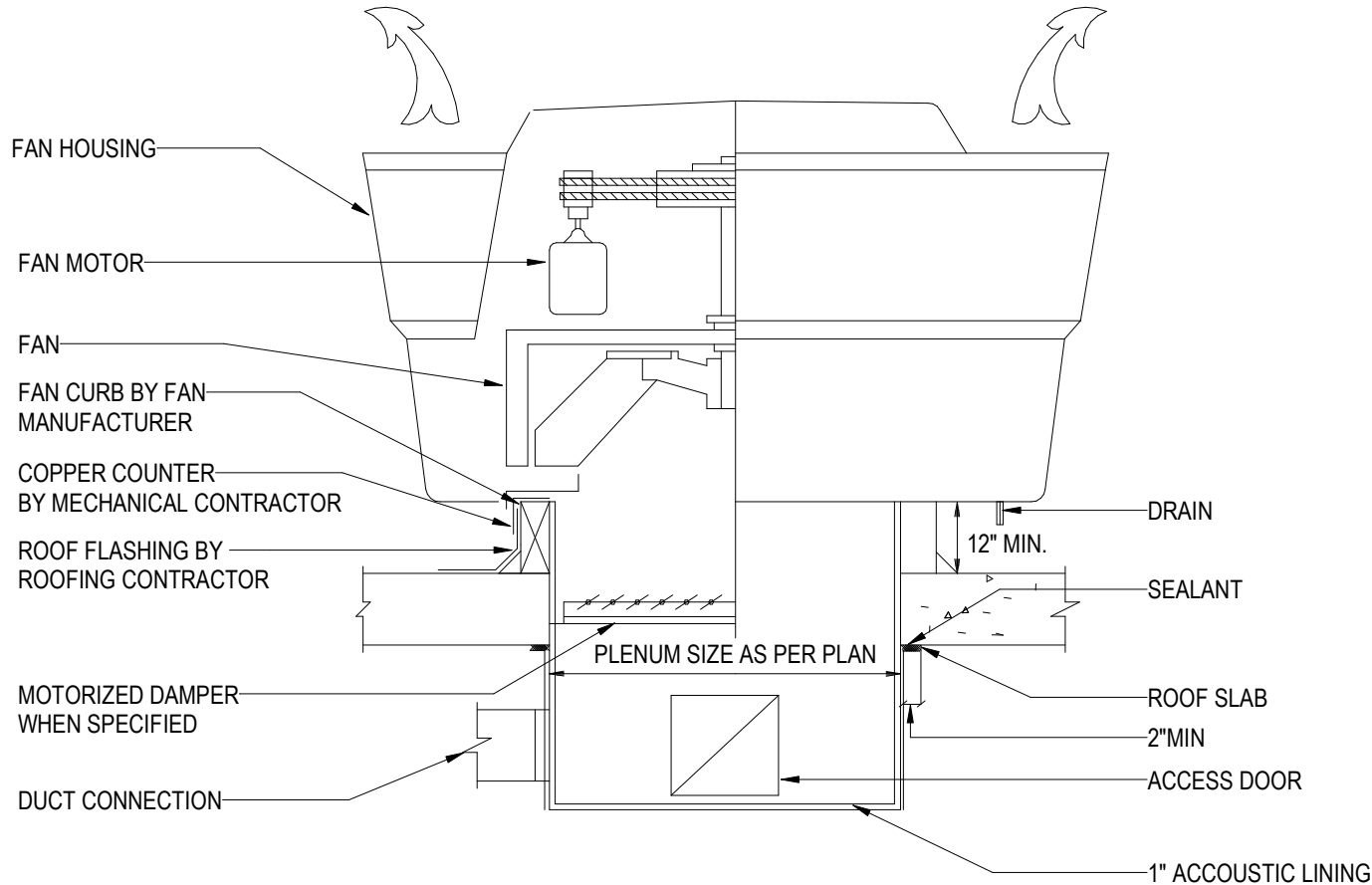
WITHOUT INCOMPRESSIBLE INSULATING BLOCK AT HANGER		
PIPE DIAMETER	SHIELD LENGT H	SHIELD THICKNESS USSG
UP TO 3"	6"	18

WITHOUT INCOMPRESSIBLE INSULATING BLOCK AT HANGER		
PIPE DIAMETER	SHIELD LENGT H	SHIELD THICKNESS USSG
UP TO 3"	12"	18



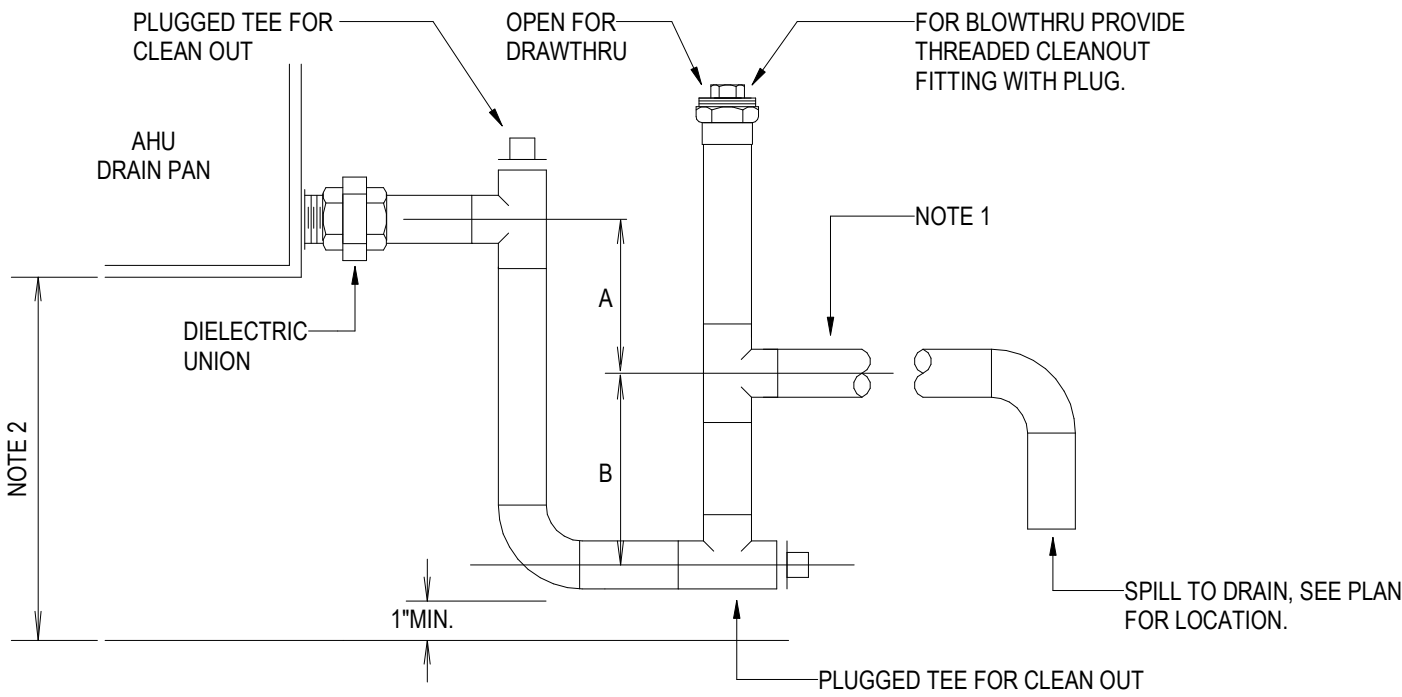
NOTE:
HANGER, ROD & INSERT SHALL BE DIPPED IN ZINC CHROMATE PRIMER PRIOR TO INSTALLATION

1 TYPICAL INSULATION OF PIPES SMALLER THAN 3
NOT TO SCALE



2 ROOF EXHAUST FAN UPBLAST
NOT TO SCALE

CONDENSATE PIPE SIZE	
EQUIPMENT CAPACITY	MIN. PIPE SIZE
TONS	INCH
UP TO 20	3/4
21-40	1
41-90	1 1/4
91-125	1 1/2
126-250	2



- DRAWTHRU :
A = GREATER OF 4" OR 1/2" PLUS AHU TOTAL PRESSURE IN INCHES-WC
- BLOWTHRU :
B = GREATER OF 4" OR 1/2" PLUS AHU TOTAL PRESSURE IN INCHES-WC
- NOTES:
1. REF. PLAN DWG'S FOR CONDENSATE DRAIN PIPE SIZE, (1"MIN. AT EACH AHU DRAIN CONNECTION POINT), REF. SPECIFICATIONS FOR PIPE AND INSULATION MATERIAL REQUIREMENTS.
 2. AHU TO BE ELEVATED ON HOUSEKEEPING PAD OR MOUNTING STRUCTURE AS REQUIRED FOR TRAP HEIGHT ABOVE FLOOR

3 MECHANICAL UNIT CONDENSATE DRAIN
NOT TO SCALE

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Project

Storm King Art Center Pond Pavilion

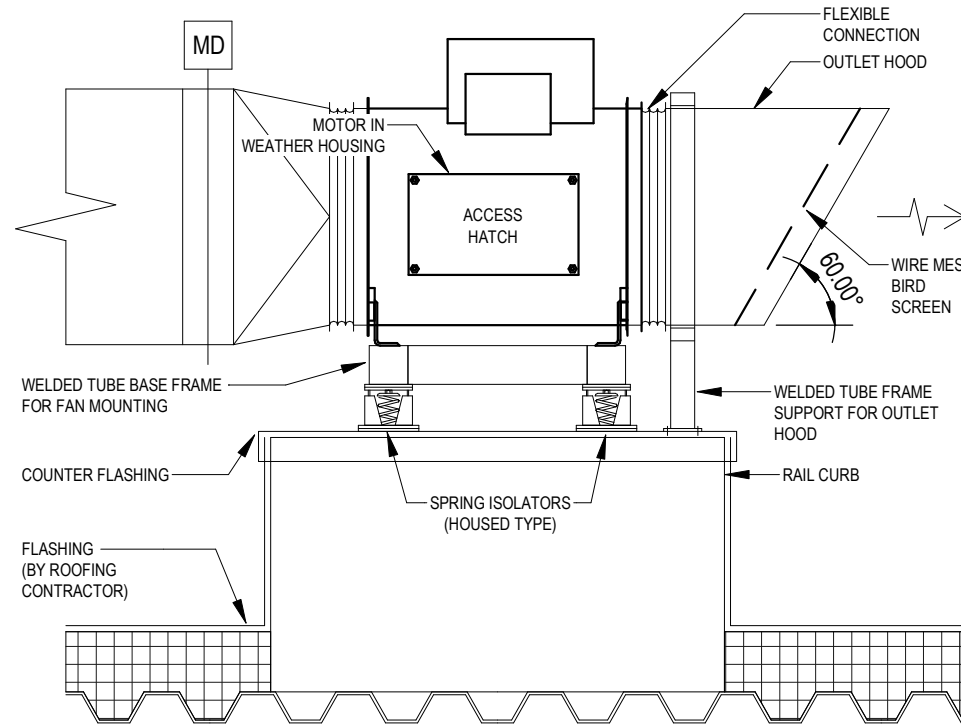
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Drawing Title

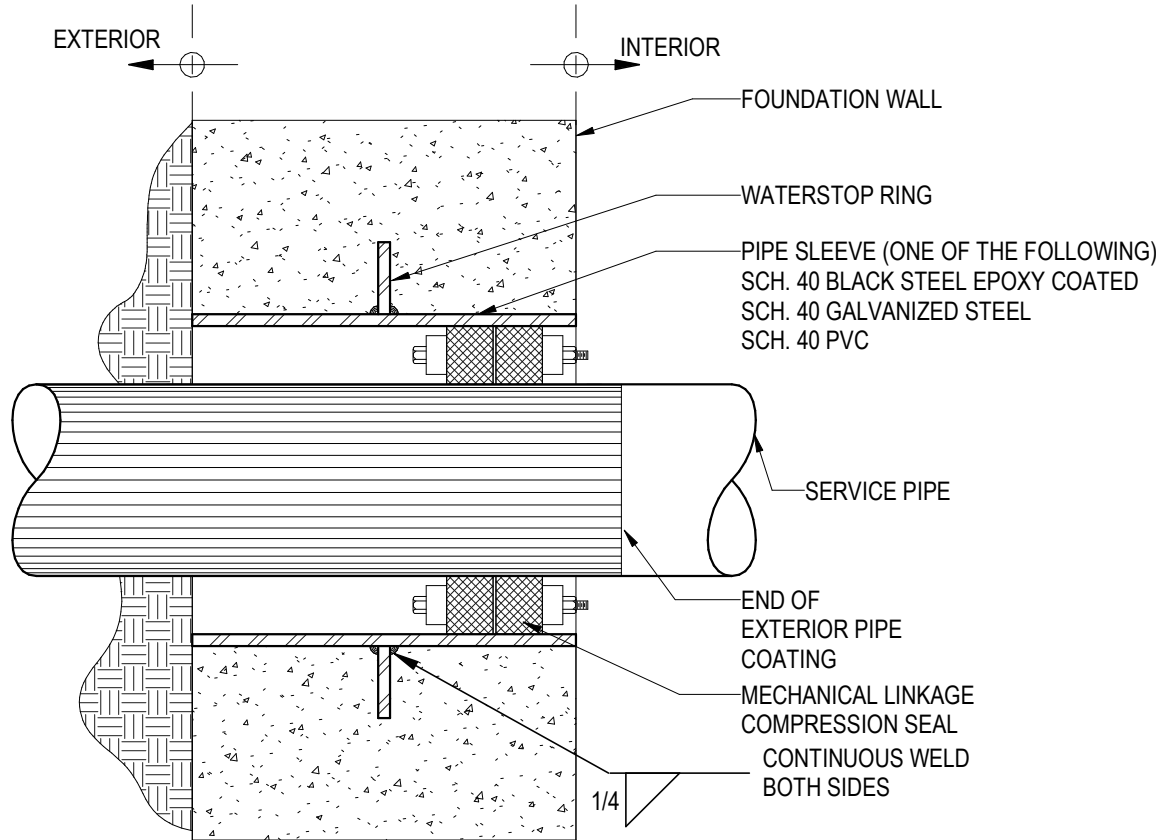
Mechanical Details

Date	11/06/20
Scale	Not to Scale
Drawing Number	M-P-507
Sheet Size	ARCH D

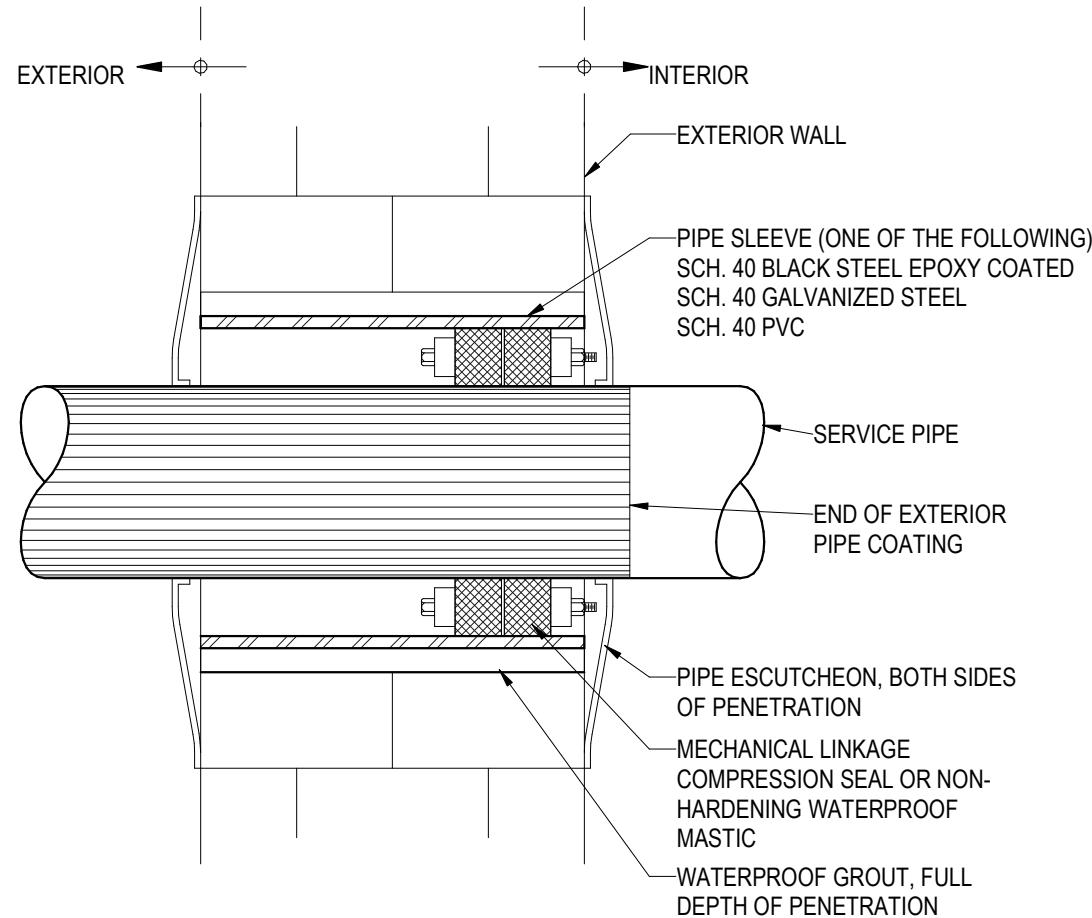


NOTES:
1. ALL EXTERIOR DUCTWORK TO BE STAINLESS STEEL

1 MIXED FLOW INLINE FAN
NOT TO SCALE



2 PIPE PENETRATION THROUGH FOUNDATION WALLS
NOT TO SCALE



3 PIPE PENETRATIONS THROUGH EXTERIOR WALLS ABOVE GRADE
NOT TO SCALE

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50% Construction Documents	11/06/20

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Drawing Number	M-P-508
Sheet Size	ARCH D

M - ENERGY RECOVERY UNIT SCHEDULE

DESIGNATION	SERVICE	LOCATION	SUPPLY AIR QUANTITY (CFM)	EXHAUST AIR QUANTITY (CFM)	PERFORMANCE DATA		SUPPLY FAN DATA		RETURN FAN DATA		ELECTRICAL					APPROXIMATE WEIGHT (LB)	MANUFACTURER	MODEL NUMBER	REMARKS			
					SUPPLY AIR QUANTITY ENTERING WHEEL (CFM)	% EFFECTIVENESS WINTER/SUMMER	CFM	EXTERNAL STATIC PRESSURE (IN WG)	HP	CFM	EXTERNAL STATIC PRESSURE (IN WG)	HP	FLAMMOTOR	VOLTAGE	PHASE					FREQ	MCA	SINGLE POINT CONNECTION
ERV - P-1-1	SEE DRAWINGS	MECH RM	200	200	200	50	200	1	0.5	200	1	0.5	FLAMMOTOR	120 V	1	60	18 A	Yes	325	RENEWAIRE	1XINV	

M - FAN SCHEDULE

DESIGNATION	SERVICE	LOCATION	AIR QUANTITY (CFM)	EXTERNAL STATIC PRESSURE (IN WG)	MAX FAN SPEED (RPM)	FAN TYPE	MOTOR/ELECTRICAL DATA			MANUFACTURER	MODEL NUMBER	REMARKS		
							HP	RPM	VOLTAGE				PHASE	FREQUENCY
EF-P-2-1	TRASH	ROOF	50	0.2	1300	CENTRIFUGAL	0.01	1300	115 V	1	60	GREENHECK	G-060-G	

M - ELECTRIC DUCT HEATER SCHEDULE

DESIGNATION	SERVICE	LOCATION	CFM	EAT (°F)	LAT (°F)	CAPACITY (KW)	MANUFACTURER	MODEL NUMBER	REMARKS
DHP-1-1	SEE DRAWINGS	MECH RM	200	0 °F	70 °F	3.2	RENEWAIRE	EK	

M - UNIT HEATER SCHEDULE

DESIGNATION	SERVICE	LOCATION	TYPE	AIR QUANTITY (CFM)	FAN			ELECTRIC COIL		CAPACITY (KW)	MODEL NUMBER	MANUFACTURER	REMARKS
					VOLTAGE	PHASE	FREQUENCY	CAPACITY (MBH)	EX (°F)				
UH - P-1-1	TRASH RM	TRASH RM	ELECTRIC	250	208 V	3	60	10.3	55 °F	3	ASHU0383CTCHAR	OXFORD	

M - ELECTRIC BASEBOARD SCHEDULE

DESIGNATION	SERVICE	LOCATION	TYPE	MAXIMUM FACE VELOCITY (FPM)	ELECTRICAL					EB LENGTH	CONTROL BY	MANUFACTURER	MODEL NUMBER	REMARKS
					KW	VOLTAGE	# OF POLES	FREQUENCY	# OF CONTROL STEPS					
EB - P-1-1	CUSTODIAN	CUSTODIAN	ELECTRIC		0.75	208 V	3			2' - 4"	THERMOSTAT	JAGA	TEMPO	

M - DIFFUSER AND GRILLE SCHEDULE

DESIGNATION	USAGE	MAX CRMTF	MAX NC	• FACE SIZE	DIFFUSER HEIGHT (IN)	• SLOT SIZE	• LENGTH (IN)	MANUFACTURER	MODEL NUMBER	REMARKS
LD-1	SUPPLY/RETURN	170 CFM	25		6"			PRICE	LBP CORE 15A	

Owner

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Design Architect

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Key Plan

Description	Date
50% Design Development	02/24/20
100% Design Development	05/29/20
50% Construction Documents	11/06/20

Project

Storm King
Art Center
Pond Pavilion

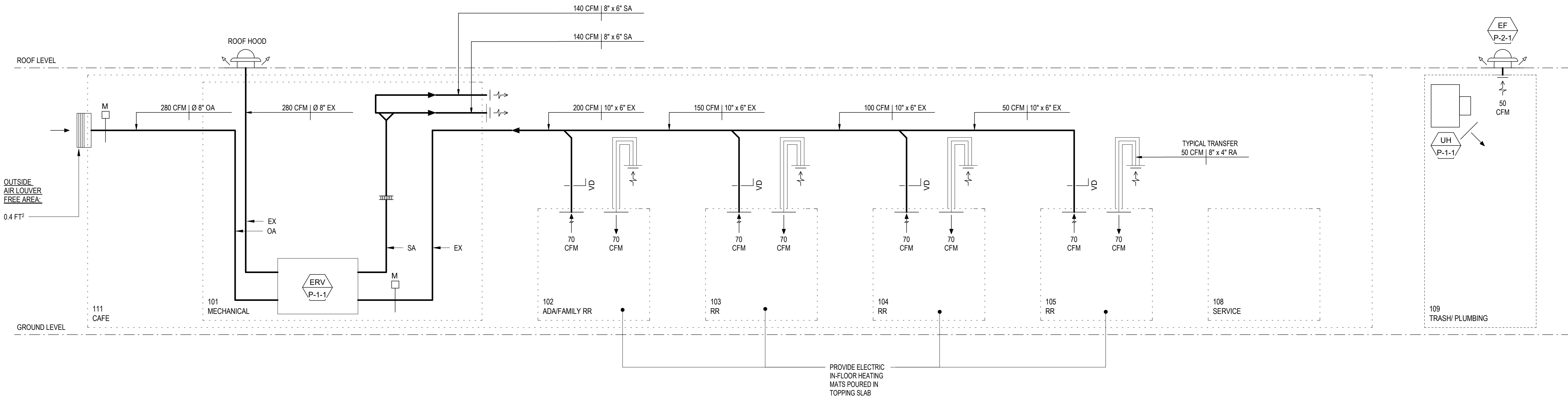
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NOT FOR CONSTRUCTION

Drawing Title

Mechanical Schedules

Date	11/06/20
Scale	Not to Scale
Drawing Number	M-P-601
Sheet Size	ARCH D



Owner
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1 Museum Road
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Key Plan

Description	Date
50% Design Development	02/24/20
100% Design Development	05/29/20
50% Construction Documents	11/06/20

Project

Storm King Art Center Pond Pavilion

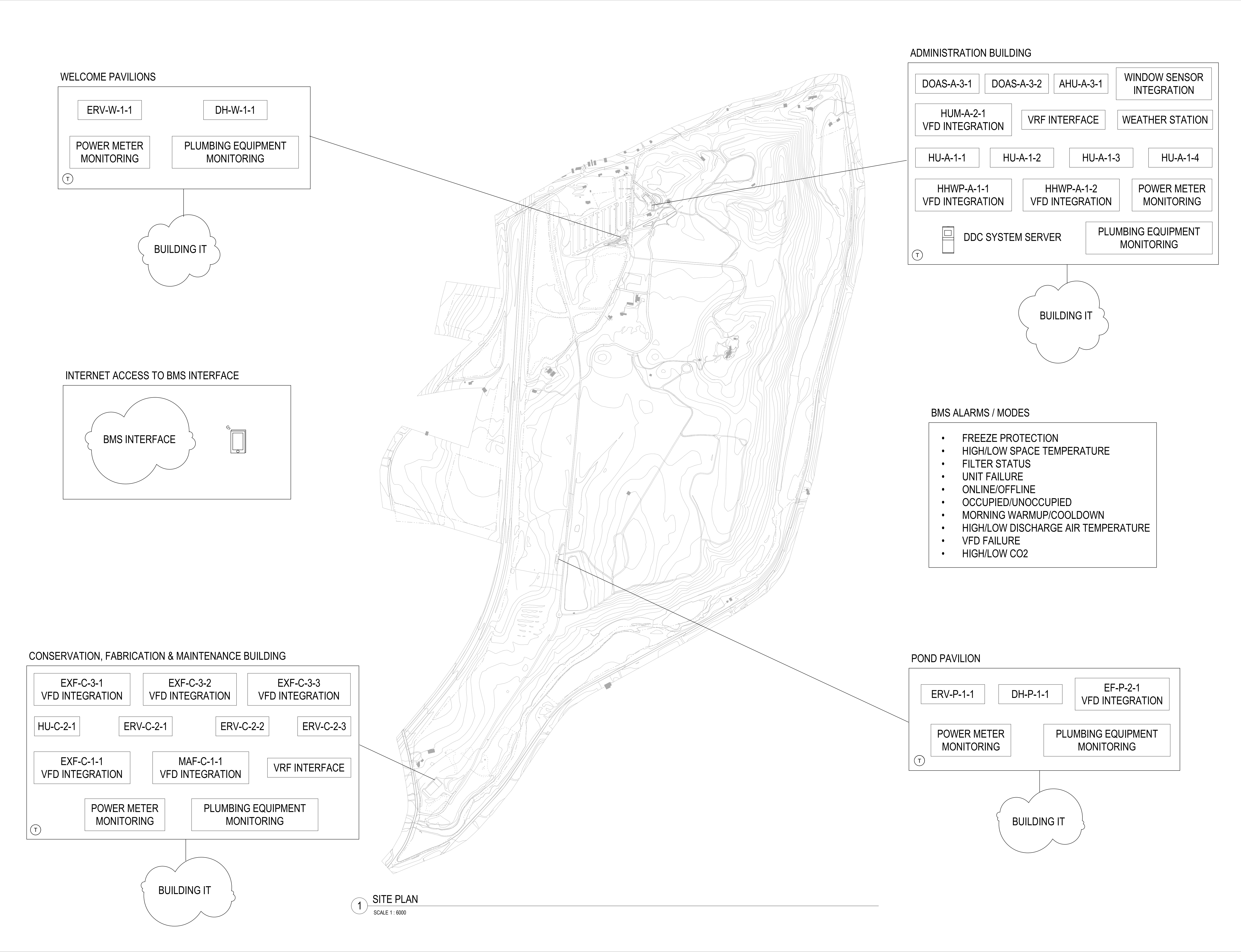
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Drawing Title

Duct Riser

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Key Plan

N	
Description	Date
50% Construction Documents	11/06/20

Project

Storm King Art Center

Pond Pavilion

1 Museum Road
New Windsor, NY 12553

Seal





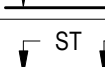
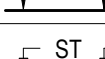


























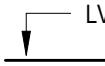
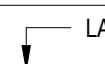
















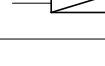
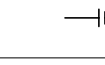


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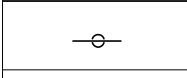
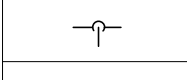
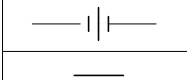
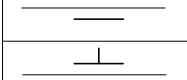
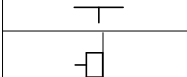
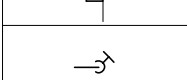

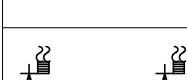
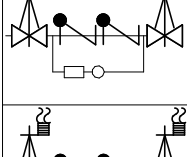
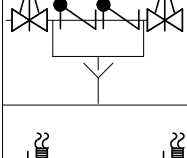
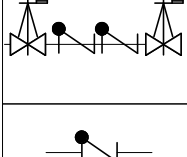

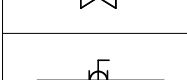

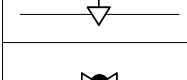
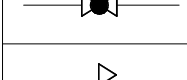
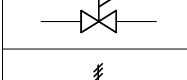
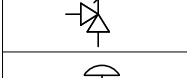
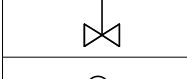
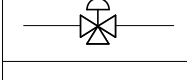
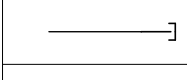
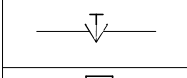
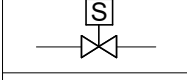
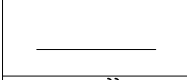
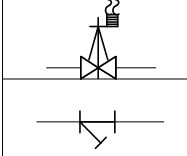
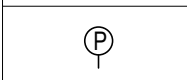
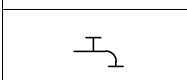
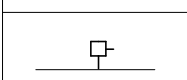
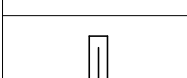

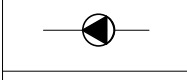
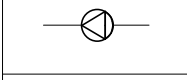



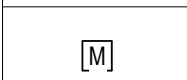
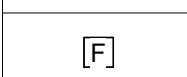

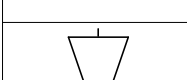
Drawing Title

Site Controls Plan

Date	11/06/20
Scale	As indicated
Drawing Number	M-P-900
Sheet Size	ARCH D

ABBREVIATIONS			
AD	AREA DRAIN	KS	KITCHEN SINK
BFP	BACKFLOW PREVENTOR	L	LEADER
BT	BATHTUB	LAV	LAVATORY
CI	CAST IRON	LP	LOW PRESSURE
CL	CENTER LINE	MAX	MAXIMUM
CLG	CEILING	MIN	MINIMUM
CO	CLEANOUT	MGCV	MASTER GAS CONTRAL VALVE
CODP	CLEANOUT DECK PLATE	MICV	METER INLET CONTROL VALVE
COWP	CLEAN OUT WALL PLATE	MS	MOP SINK
COL	COLUMN	NFWH	NON-FREEZE WALL HYDRANT
CP	CONTROL PANEL	NIC	NOT IN CONTRACT
CW	COLD WATER	NTS	NOT TO SCALE
DCV	DOUBLE CHECK VALVE	OD	OVERFLOW DRAIN
DDDA	DOUBLE CHECK DETECTOR ASSEMBLY	OS&Y	OUTSIDE SCREW & YOKE
DF	DRINKING FOUNTAIN	PG	PRESSURE GAUGE
DFU	DRAINAGE FIXTURE UNIT	PLMB	PLUMBING
DIA	DIAMETER	PO	PLUGGED OUTLET
DN	PIPE DOWN THRU FLOOR	POE	POINT OF ENTRY
DR	DRAIN	PS	PANTRY SINK
DW	DISH WASHER	RD	ROOF DRAIN
DWG	DRAWING	REF	REFRIGERATOR
EL	ELEVATION	RPZ	REDUCED PRESSURE ZONE
ELEC	ELECTRIC	RM	ROOM
ETBR	EXISTING TO BE REMOVED	S	SOIL
ETR	EXISTING TO REMAIN	SA	SHOCK OBSORBER
EWIC	ELECTRIC WATER COOLER	SS, SAN	SANITARY
EWH	ELECTRIC WATER HEATER	ST	STORM DRAIN
EXIST	EXISTING	SE	SEWAGE EJECTOR
F	FIRE SERVICE	SP	SUMP PUMP
FAI	FRESH AIR INTAKE	SH	SHOWER
FD	FLOOR DRAIN	SPEC	SPECIFICATIONS
FFD	FUNNEL FLOOR DRAIN	SQ. FT.	SQUARE FEET
FL	FLOOR	TD	TRENCH DRAIN
FU	FIXTURE UNIT	TMV	THERMOSTATIC MIXING VALVE
FS	FLOOR SINK	TR	TRAP
G	GAS	TYP	TYPICAL
GAL	GALLON	UR	URINAL
GC	GENERAL CONTRACTOR	V	VENT
GI	GREASE INTERCEPTOR	VTR	VENT THROUGH ROOF
GM	GAS METER	VB	VACUUM BREAKER
GV	GATE VALVE	W	WASTE
GW	GRAY WASTE	WC	WATER CLOSET
HB	HOSE BIB	WH	WALL HUNG
HC	HANDICAPPED	WHA	WATER HAMMER ARRESTER
HVAC	HEATING, VENTILATION & AIR CONDITIONING	WSFU	WATER SUPPLY FIXTURE UNIT
HW	HOT WATER		
HWH	HOT WATER HEATER		
HWR	HOT WATER RETURN		
IG	IRRIGATION PIPING		
IE	INVERT ELEVATION		
IW	INDIRECT WASTE		
JS	JANITOR SINK		

PLUMBING SYMBOLS			
SYMBOL	DESCRIPTION		
	PROPOSED	SANITARY PIPING BELOW GRADE	
	EXISTING		
	PROPOSED	SANITARY WASTE (S OR W)	
	EXISTING		
	PROPOSED	STORM DRAINAGE (ST)	
	EXISTING		
	PROPOSED	OVERFLOW STORM DRAINAGE	
	EXISTING		
	PROPOSED	VENT	
	EXISTING		
	PROPOSED	DOMESTIC COLD WATER	
	EXISTING		
	PROPOSED	DOMESTIC HOT WATER	
	EXISTING		
	PROPOSED	DOMESTIC HOT WATER RETURN	
	EXISTING		
	PROPOSED	NATURAL GAS	
	EXISTING		
	RAINWATER REUSE		
	SEWAGE EJECTOR DISCHARGE		
	PUMP DISCHARGE PIPING		
	GRAY WATER (LA ONLY)		
	GREASE WASTE		
	SOFTENED WATER		
	PURIFIED WATER		
	COMPRESSED AIR		
	OXYGEN		
	NITROGEN		
	LAB VACUUM		
	LAB AIR		
	LAB GAS		
	TEPID WATER		
	REMOVE EXISTING PIPING		
	PIPING WITH ELECTRIC TRACE HEATING		
	PIPING INTERRUPTED OR TO BE CONTINUED		
	CAP OR END OF PIPE		
	SECTION SHEET No. SECTION NUMBER		
	SYSTEM DESCRIPTION RISER NUMBER	PLUMBING RISER	
	SYSTEM DESCRIPTION RISER NUMBER	STORM RISER	
	SYSTEM DESCRIPTION RISER NUMBER	GAS RISER	
	EQUIPMENT DESCRIPTION EQUIPMENT NUMBER	EQUIPMENT REFERENCE	
	POINT OF DISCONNECT		
	CONNECT NEW TO EXISTING		
	HOT WATER BALANCING ASSEMBLY		
	CLEANOUT		
	CLEANOUT DECK PLATE		
	DRAIN		
	HOUSE TRAP		
	P-TRAP		
	SHOCK ABSORBER		
	TRAP PRIMER		
	ARROW INDICATES DIRECTION OF FLOW		
	ELBOW UP OR RISE		
	ELBOW DN OR DROP		

PLUMBING SYMBOLS	
SYMBOL	DESCRIPTION
	BOTTOM CONNECTION
	TOP CONNECTION
	UNION SCREWED
	PIPE SLEEVE
	WATERPROOF PIPE SLEEVE
	NON FREEZE WALL HYDRANT
	VALVE ON PIPE RISE
	BACK FLOW PREVENTER
	DOUBLE CHECK DETECTOR ASSEMBLY (FIRE PROTECTION)
	REDUCED PRESSURE ZONE VALVE ASSEMBLY (FIRE PROTECTION)
	DOUBLE CHECK ASSEMBLY (FIRE PROTECTION)
	CHECK VALVE
	GATE VALVE
	BALL VALVE
	GAS VALVE
	GLOBE VALVE
	PRESSURE REDUCING VALVE
	TEMPERATURE & PRESSURE RELIEF VALVE
	PRESSURE REGULATING VALVE
	THERMOSTATIC MIXING VALVE
	VALVED CAPPED OUTLET
	CURB VALVE
	SOLENOID VALVE
	OUTSIDE STEM AND YOKE VALVE
	OUTSIDE STEM AND YOKE VALVE W/ TAMPER SWITCH
	STRAINER
	PRESSURE GAUGE
	HOSE BIB
	VACUUM BREAKER
	THERMOMETER
	PUMP
	CIRCULATOR PUMP
	SCHEMATIC PUMP
	FLOOR SINK
	VENT THRU ROOF
	METER
	FILTER
	FAI
	VENT INCREASER

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Key Plan

Description	Date
50% Design Development	02/24/20
100% Design Development	05/29/20
50% Construction Documents	11/06/20

Project

Storm King Art Center Pond Pavilion

Seal

NOT FOR CONSTRUCTION

Drawing Title
Abbreviations,
Symbols, and
Legends

Date	11/06/20
Scale	Not to Scale
Drawing Number	P-P-001
Sheet Size	ARCH D

PLUMBING NOTES:

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND JOB CONDITIONS AND SHALL REPORT TO ENGINEER ANY DISCREPANCIES OR OMISSIONS THAT WOULD INTERFERE WITH SATISFACTORY COMPLETION OF THE WORK.
- CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL EXISTING CONDITIONS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS WORKPERSON LIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND FUNCTIONAL.
- NOTIFY BUILDING MANAGER AT LEAST 48 HOURS BEFORE NEW WORK OR BEFORE SHUT DOWN OF EXISTING SERVICES. RISER SHUT DOWNS SHALL BE PERFORMED AT TENANT'S COST, AT DESIGNATED TIMES UNDER BUILDING MANAGER'S SUPERVISION AND ONLY WITH THEIR APPROVAL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING WITH BUILDING MANAGEMENT FOR HANDLING MATERIALS, AS WELL AS FOR ALLOWABLE WORKING HOURS AND DELIVERIES.
- PLUMBING CONTRACTOR SHALL COORDINATE ALL WORK WITH RESPECT TO ALL OTHER TRADES, INCLUDING STRUCTURE AND CEILING HEIGHTS. CONTRACTOR SHALL COORDINATE ALL WORK WITH ARCHITECTURAL LAYOUTS, INCLUDING CEILING HEIGHTS.
- CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS AND MANUFACTURERS' CUTS AND SAMPLES TO ARCHITECT PRIOR TO COMMENCEMENT OF SUCH WORK.
- CONTRACT DRAWINGS ARE NOT TO BE SCALED.
- CONTRACTOR SHALL COMPLY WITH ALL NEW YORK STATE AND LOCAL BUILDING DEPARTMENT AND REGULATORY AGENCIES AND CODE REQUIREMENTS. BE RESPONSIBLE FOR SECURING ALL NECESSARY PERMITS AND APPROVALS OF ALL TRADES.
- CONTRACTOR SHALL CARRY AND DOCUMENT LIABILITY, ACCIDENT AND PROPERTY DAMAGE INSURANCE AS REQUIRED BY COOPERATIVE CORPORATION AND OBSERVE THEIR PERMITTED HOURS FOR WORK.
- CONTRACTOR SHALL EXERCISE EXTREME CARE IN PROTECTING AREAS ADJACENT TO CONSTRUCTION AREAS. SHALL FULLY PROTECT THEM FROM ANY DAMAGE RESULTING FROM CONTRACTORS' WORKPERSONS. SUBCONTRACTORS OR AGENTS, AND SHALL BE RESPONSIBLE FOR REPAIRING, CLEANING OR REPLACING ANY SUCH DAMAGE.
- ALL DIMENSIONS GIVEN ARE FINISH DIMENSIONS UNLESS OTHERWISE STATED.
- REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS UNLESS SPECIFICALLY STATED OTHERWISE. CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, APPURTENANCES, EQUIPMENT AND SERVICES TO COMPLETE ALL WORK AS INDICATED ON DRAWINGS AND/OR SPECIFIED ON NOTES.
- UNLESS SPECIFICALLY STATED OTHERWISE, CONTRACTOR SHALL FOLLOW MANUFACTURERS' DIRECTIONS WITH APPLICABLE CODES, INSTRUCTIONS AND RECOMMENDATIONS FOR ALL MATERIALS AND PROCESSES USED IN THIS CONTRACT. PROVIDE ALL FITTINGS, TRANSITIONS, VALVES, AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
- UPON COMPLETION OF THE WORK, COMPLETELY CLEAN THE CONSTRUCTION AREA SUITABLE FOR THE OWNER'S USE, INCLUDING REMOVAL OF ALL LABELS (AFTER ARCHITECT'S INSPECTION), CLEANING OF ALL THE EQUIPMENT, CONSTRUCTION WORK, WINDOWS AND OTHER WORK, NEW AND OLD, IN THAT CONSTRUCTION AREA. MAINTENANCE MANUAL SHALL BE PROVIDED TO THE OWNER.
- BUILDING DEPARTMENT APPROVED PLANS SHALL BE TURNED OVER TO OWNER AT THE COMPLETION OF THE JOB.
- AT THE FINAL COMPLETION OF THE JOB, CONTRACTOR SHALL SUBMIT TO THE OWNER AND TO ENGINEER A NOTARIZED AFFIDAVIT STATING COMPLIANCE WITH ALL PROVISIONS OF THIS CONTRACT, INCLUDING ALL NOTES, EXCEPT FOR THOSE CHANGES SPECIFICALLY APPROVED IN WRITING BY THE ARCHITECT.
- VACUUM BREAKER AND RELATED PIPING SHALL BE INSTALLED BEHIND WALL. PROVIDE AN ACCESS PANEL TO THE VACUUM BREAKER. ALL EXPOSED PIPING AT THE PANTRY SHALL BE STEEL WITH CHROME PLATED FINISH.
- CONTRACTOR SHALL GUARANTEE ALL WORK PERFORMED UNDER THIS CONTRACT FOR ONE YEAR, STARTING FROM DATE OF FINAL COMPLETION OF ALL WORK.
- PROVIDE CLEANOUTS FOR CHANGES IN DIRECTION FOR ALL SANITARY PIPING.
- CONTRACTOR SHALL COORDINATE ALL FLOOR CORING SLEEVES AND FLOOR OPENINGS WITH STRUCTURAL DRAWINGS.
- ALL PIPING PENETRATIONS THROUGH WALLS OR CEILINGS SHALL BE PROVIDED WITH APPROPRIATE FIRE RETARDANT SEALANT AND ESCUTCHEONS.
- PLUMBING CONTRACTOR SHALL OBTAIN THE BUILDINGS RULES AND REGULATIONS PRIOR TO BID AND SHALL MEET ALL REQUIREMENTS. NO EXTRA MONEY WILL BE AWARDED FOR ANY WORK PERFORMED AND MATERIAL PURCHASED THAT DOES NOT MEET THE REQUIREMENTS.
- ALL FIXTURES MUST BE PROVIDED WITH READILY ACCESSIBLE STOPS AND APPROPRIATELY MARKED ACCESS PANELS. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
- PLATFORMS, CURBS, AND FLASHINGS FOR PLUMBING EQUIPMENT SHALL BE AS INDICATED ON THE STRUCTURAL AND ARCHITECTURAL PLANS, UNLESS NOTED OTHERWISE. COORDINATE EXACT SIZES OF REQUIRED OPENINGS AND SUPPORTS FOR FURNISHED EQUIPMENT.
- PROVIDE DRAIN DRIP PANS UNDER ALL PLUMBING DRAINAGE PIPING TO BE INSTALLED WITHIN THE ELECTRICAL AND TELEPHONE EQUIPMENT, KITCHEN, PANTRY OR FOOD PREPARATION AND DINING ROOM CEILINGS. PROVIDE TELL TALE DRAINAGE PIPE AND SPILL OVER CLOSET FLOOR DRAIN OR SERVICE SINK.
- PROVIDE ACCESS DOORS FOR SHUTOFF VALVES, SHOCK ABSORBERS, HOT WATER RETURN BALANCING RISERS, TRAP PRIMERS AND CLEANOUTS.
- CONTRACTOR TO VERIFY SYSTEM WORKING PRESSURE AND PROVIDE PRESSURE REDUCING VALVES WHERE APPLICABLE.
- CONTRACTOR TO PROVIDE SHOCK ABSORBERS PRIOR TO ALL QUICK CLOSING VALVES.

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Key Plan

Description	Date
50% Design Development	02/24/20
100% Design Development	05/29/20
50% Construction Documents	11/06/20

Project

Storm King
Art Center
Pond Pavilion

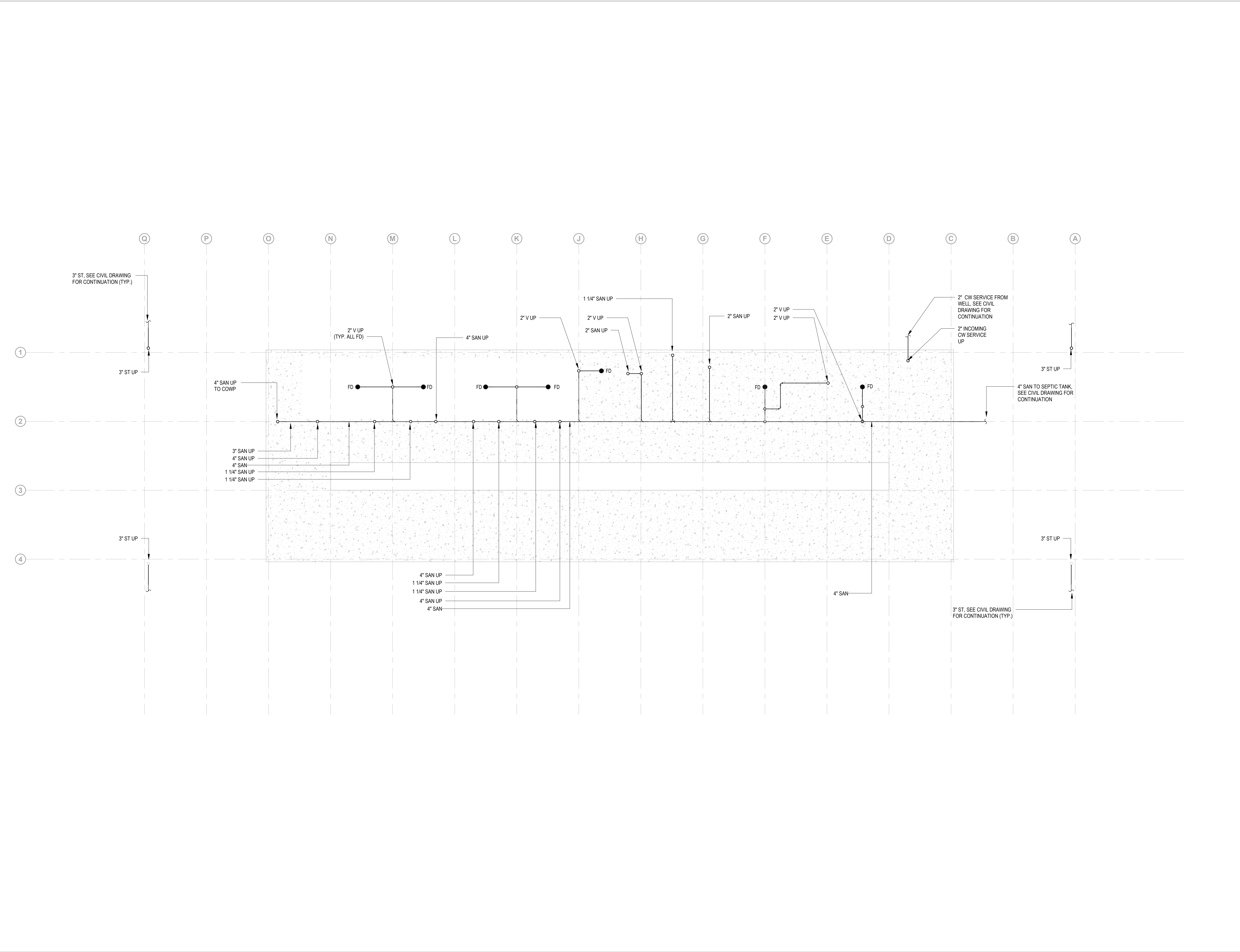
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Drawing Title

General Notes

Date	11/06/20
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Drawing Number	P-P-002
Sheet Size	ARCH D



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Description	Date
50% Design Development	02/24/20
100% Design Development	05/29/20
50% Construction Documents	11/06/20

Project

Storm King Art Center Pond Pavilion

Seal

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Drawing Title

Piping Plan - Underslab

Date	11/06/20
Scale	1/4" = 1'-0"
Drawing Number	P-P-100
Sheet Size	ARCH D

NOTES:
1. HEAT TRACE ALL CW, HW AND HWR
PIPEWORK WITHIN THE BUILDING
2. PROVIDE DOMESTIC WATER DRAIN DOWN
LOCATION IN EVENT OF POWER OUTAGE

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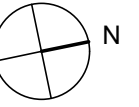
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50% Construction Documents	11/06/20

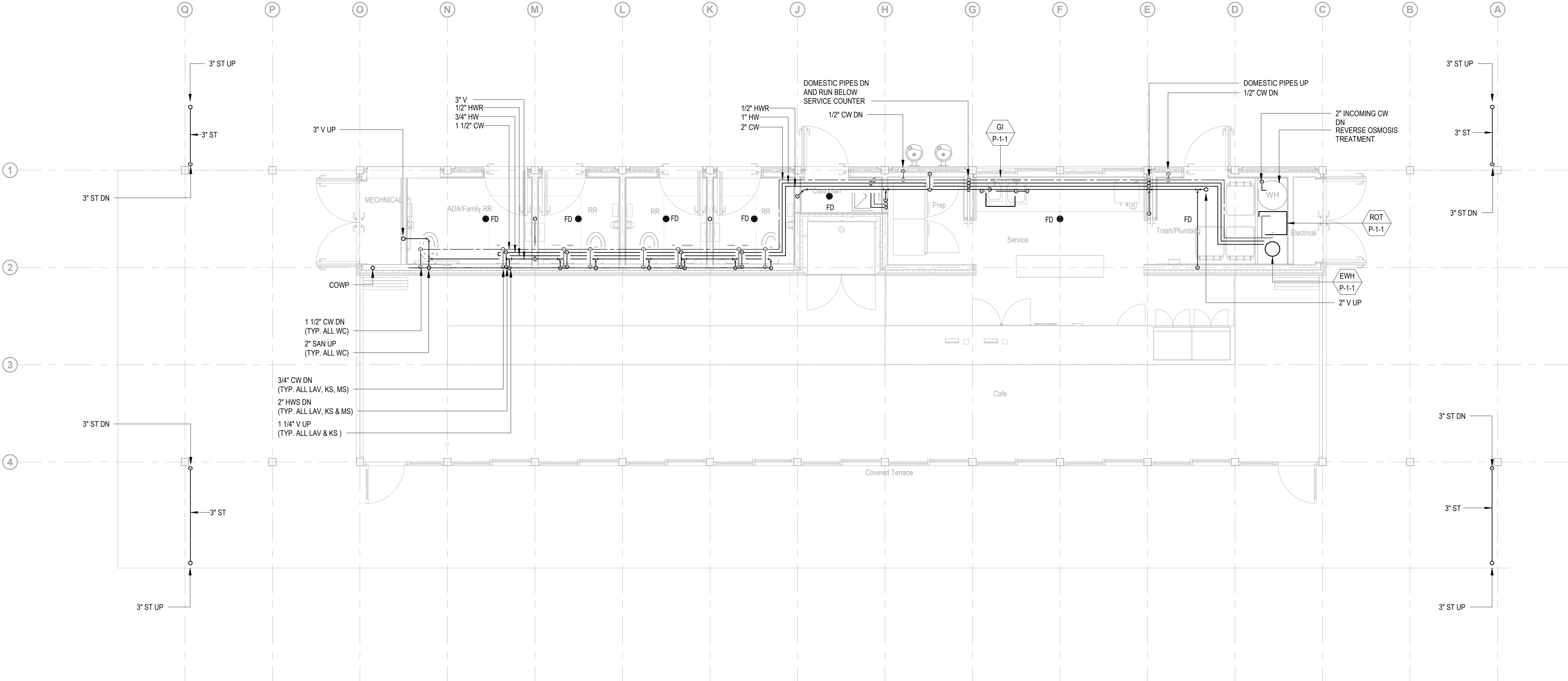
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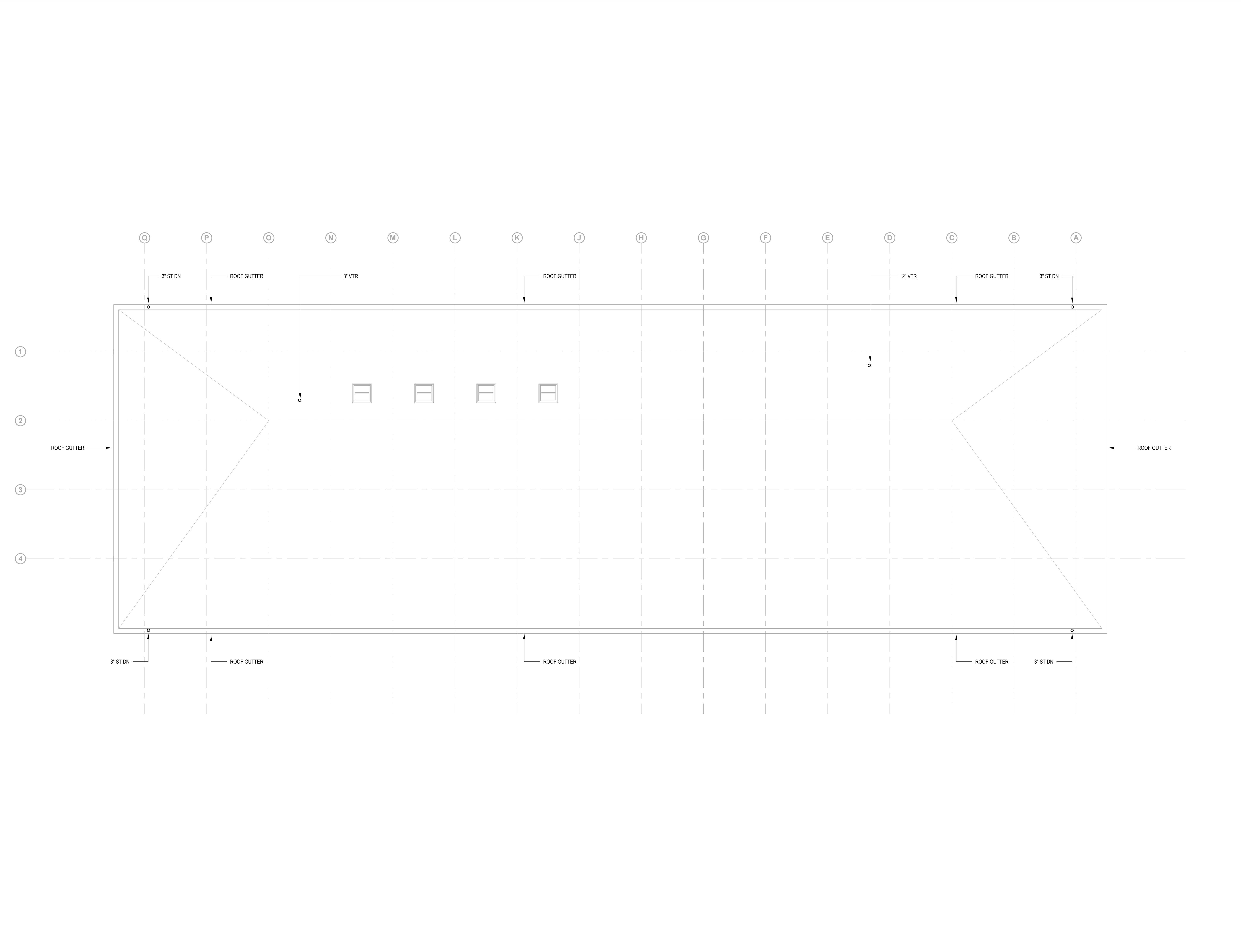
Storm King Art Center Pond Pavilion

Seal

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Drawing Title
Piping Plan - Ground
Level

Date	11/06/20
Scale	1/4" = 1'-0"
Drawing Number	P-P-101
Sheet Size	ARCH D





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Key Plan



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50% Design Development	02/24/20
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50% Construction Documents	11/06/20

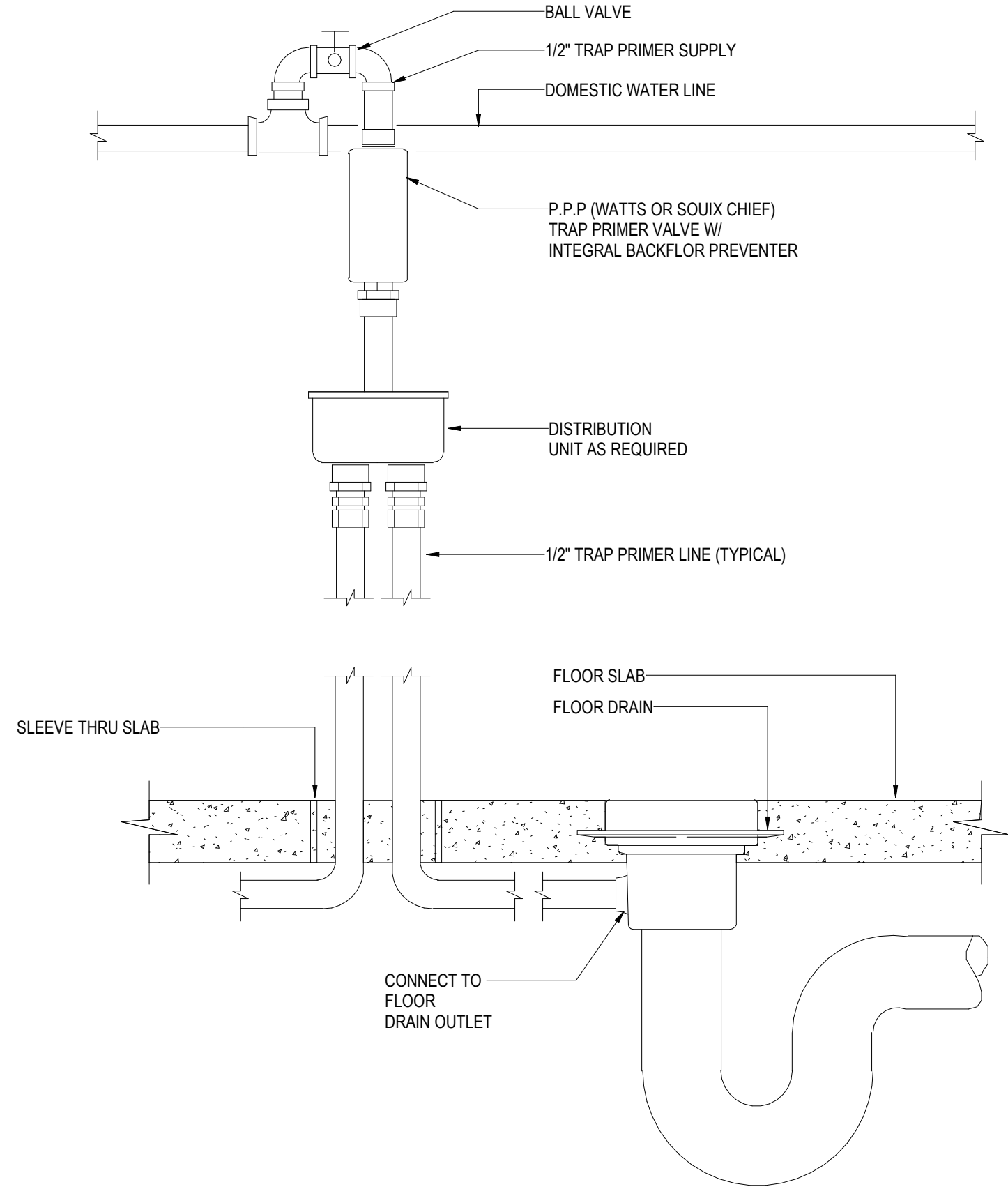
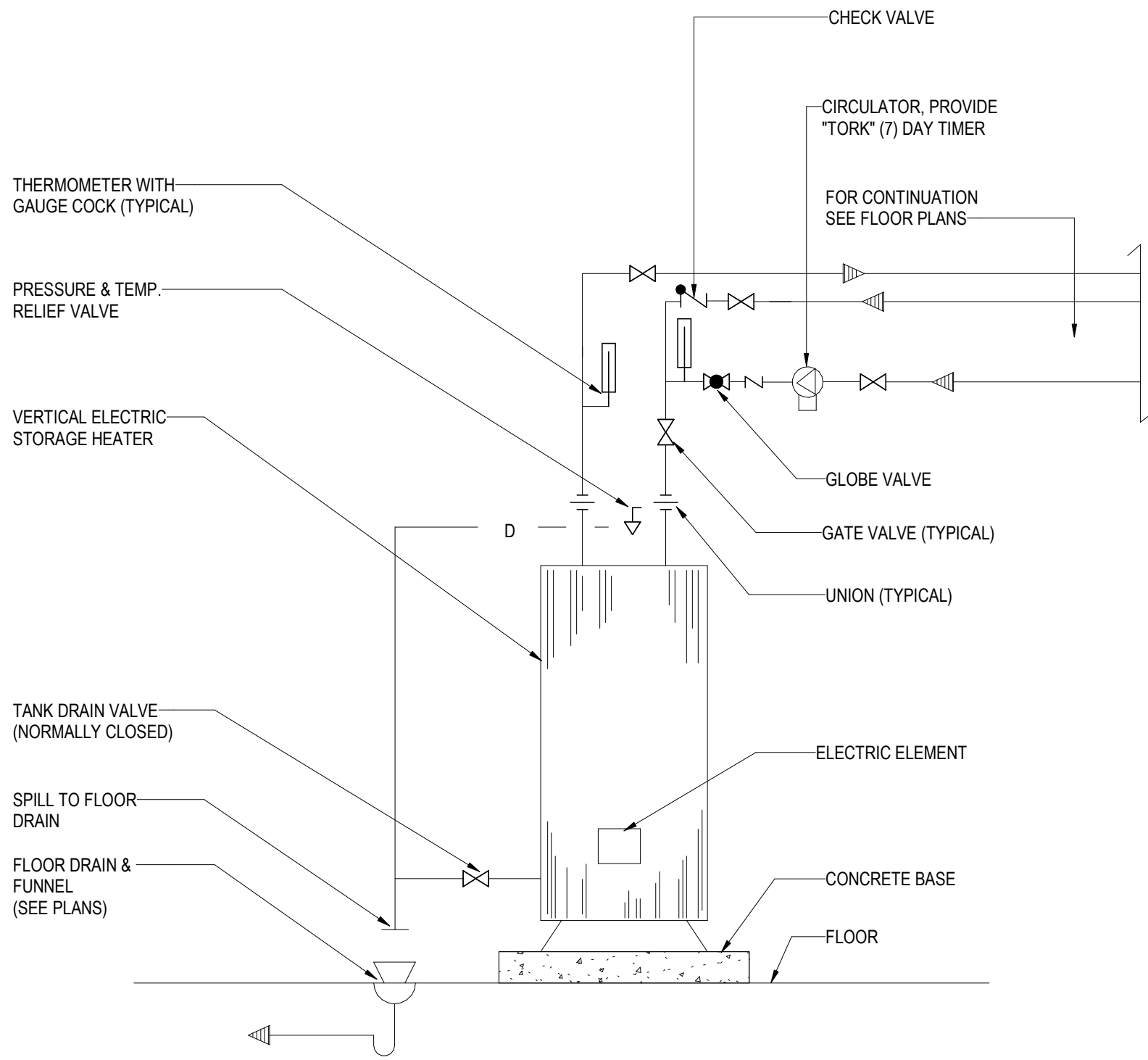
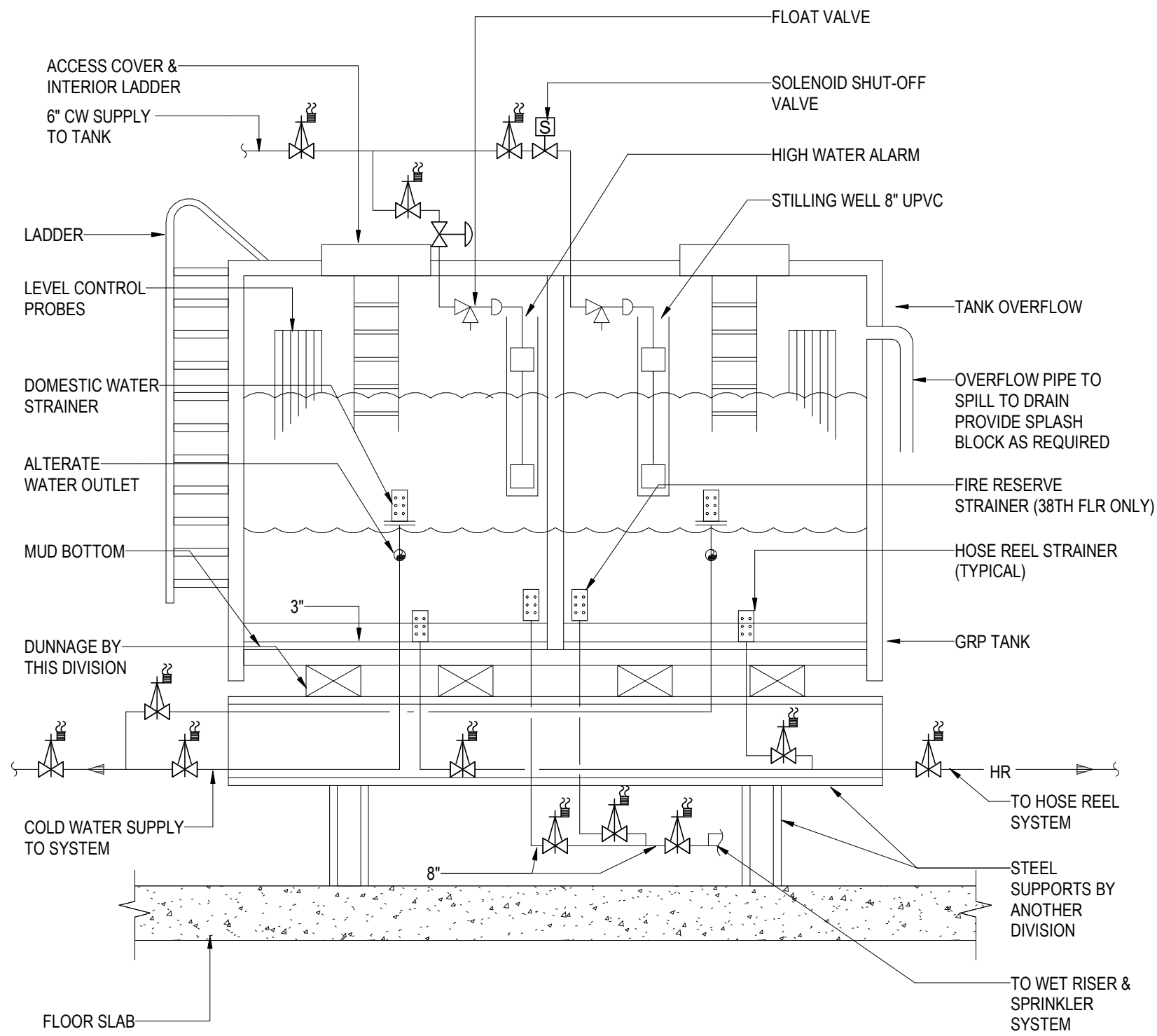
Project

Storm King Art Center Pond Pavilion

Seal

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Drawing Title
Piping Plan - Roof
Level

Date	11/06/20
Scale	1/4" = 1'-0"
Drawing Number	P-P-102
Sheet Size	ARCH D



1 GRP DOMESTIC WATER & FIRE RESERVE TANK

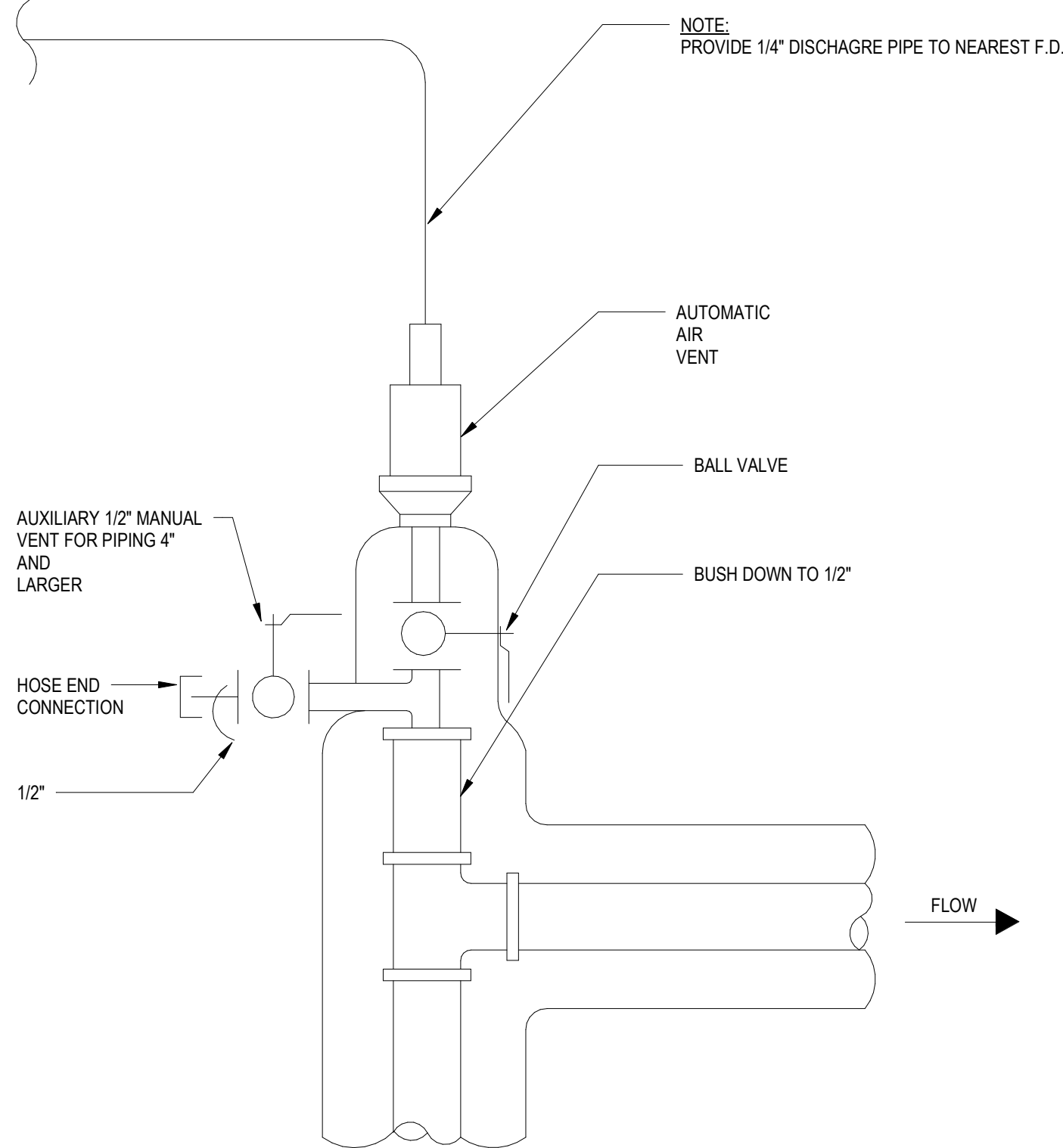
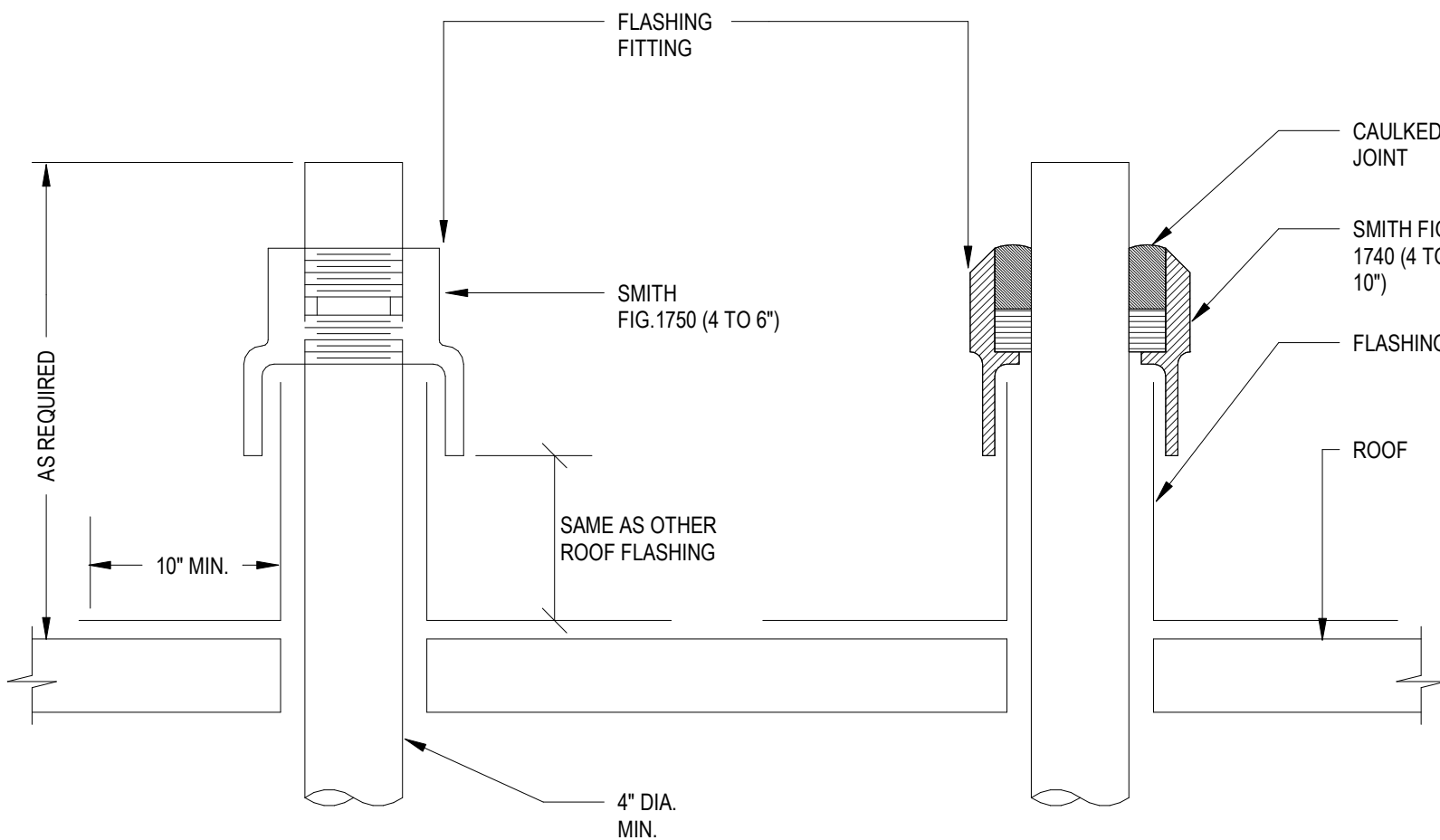
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2 ELECTRIC DOMESTIC WATER HEATER W/CIRCULATION

NOT TO SCALE

3 TRAP PRIMER FOR MECHANICAL ROOM DRAINS

NOT TO SCALE



NOTE:
1. DETAIL TO BE USED AT ALL AUTOMATIC AIR VENT LOCATIONS, INCLUDING AT THE TOP OF ALL PIPE RISERS CONNECTING TO TWO OR MORE FLOORS.
2. AAV. TO BE INSTALLED AT

4 FLASHINGS FOR VENT TERMINALS ABOVE ROOF

NOT TO SCALE

5 AUTOMATIC AIR VENT

NOT TO SCALE

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Key Plan

Description	Date
50% Design Development	02/24/20
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Project

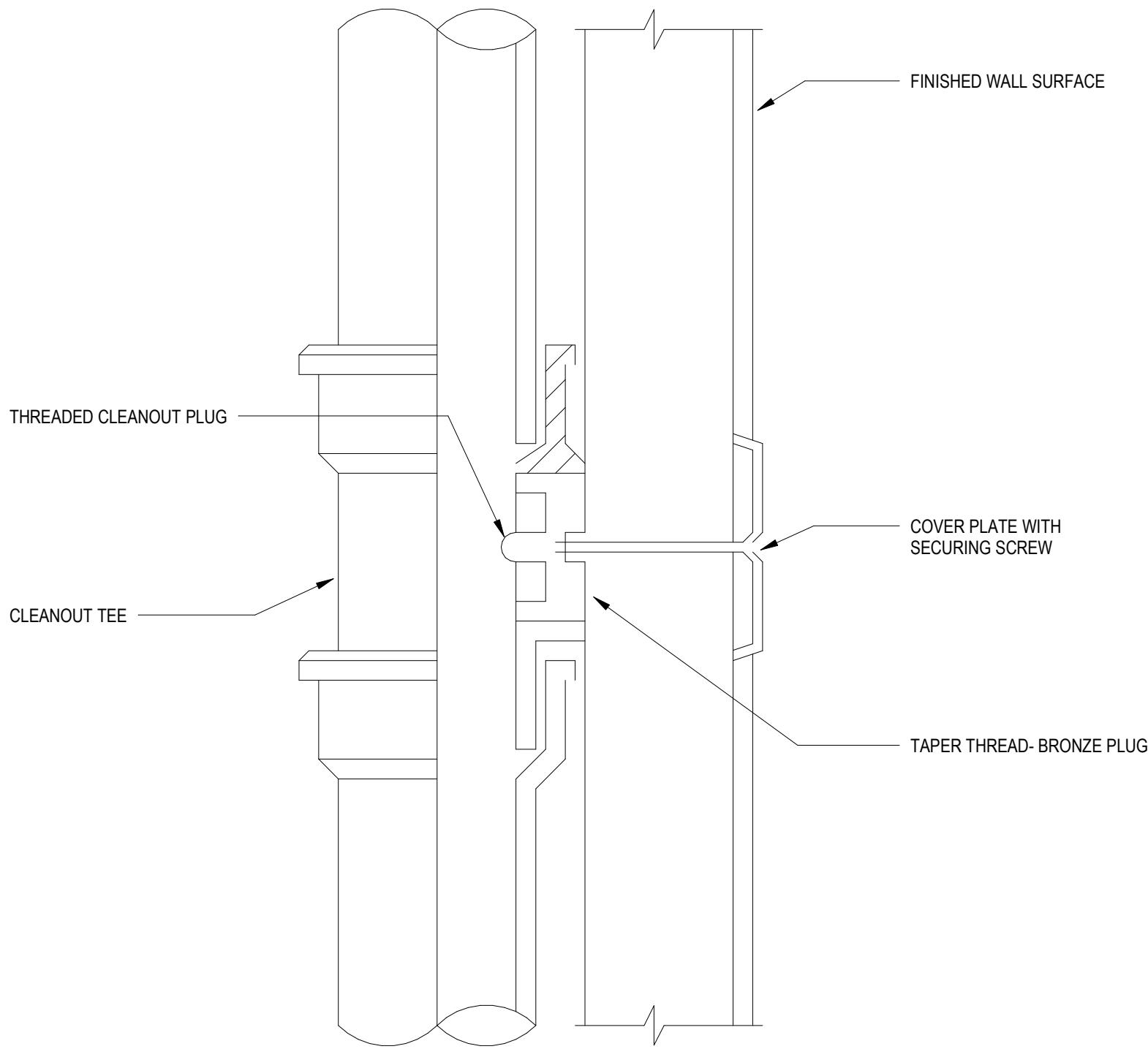
Storm King
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Pond Pavilion

Seal

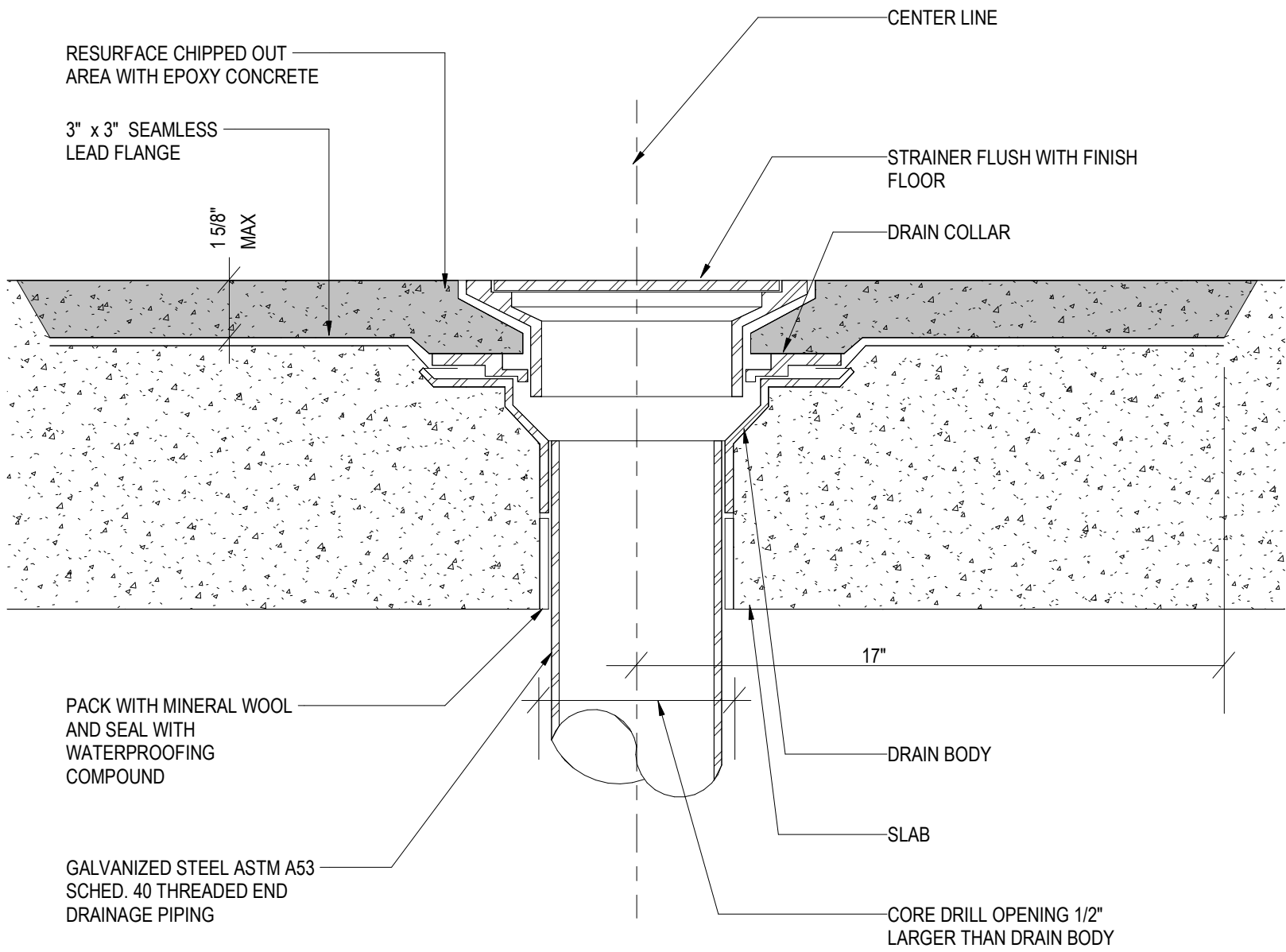
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Drawing Title
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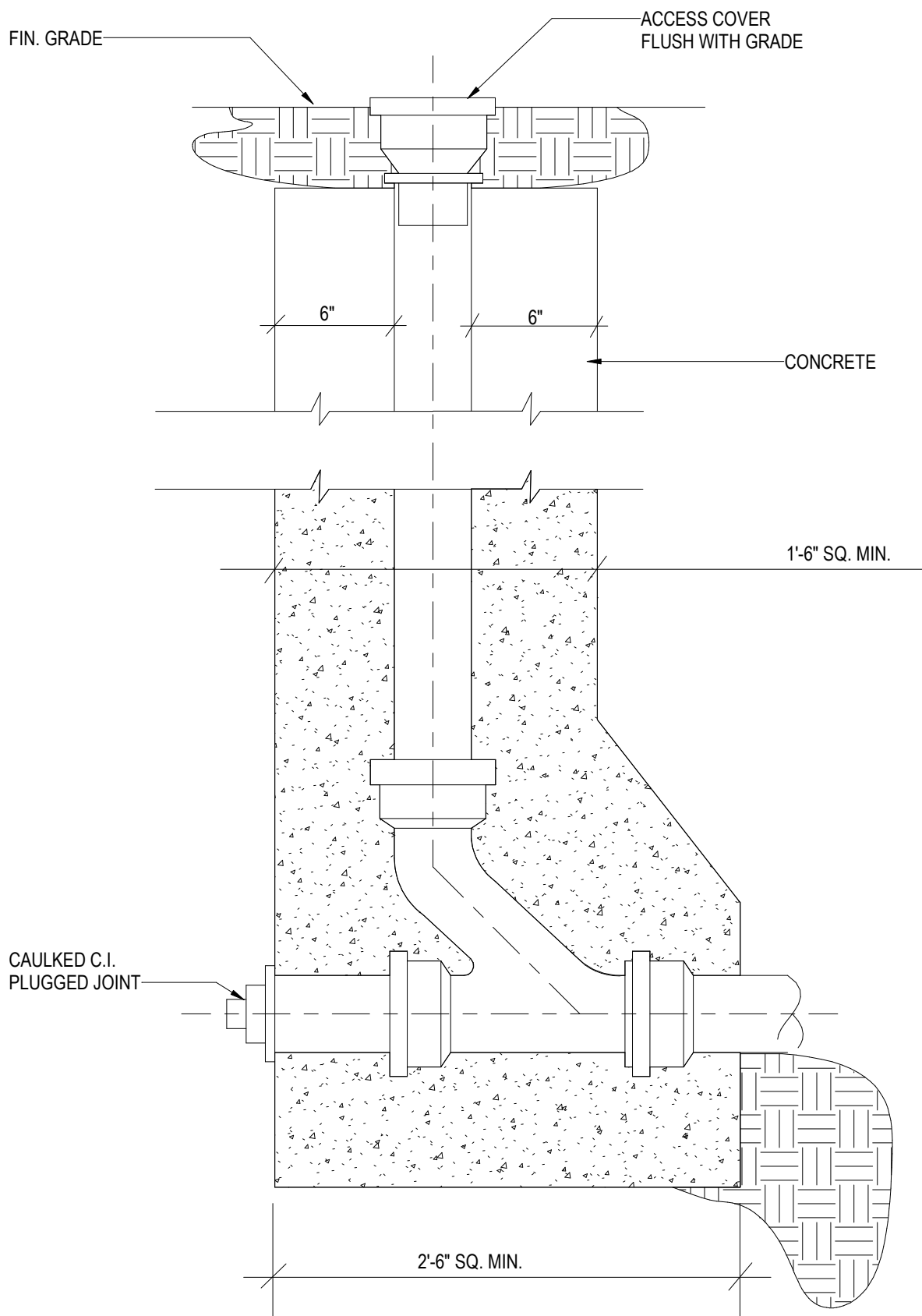
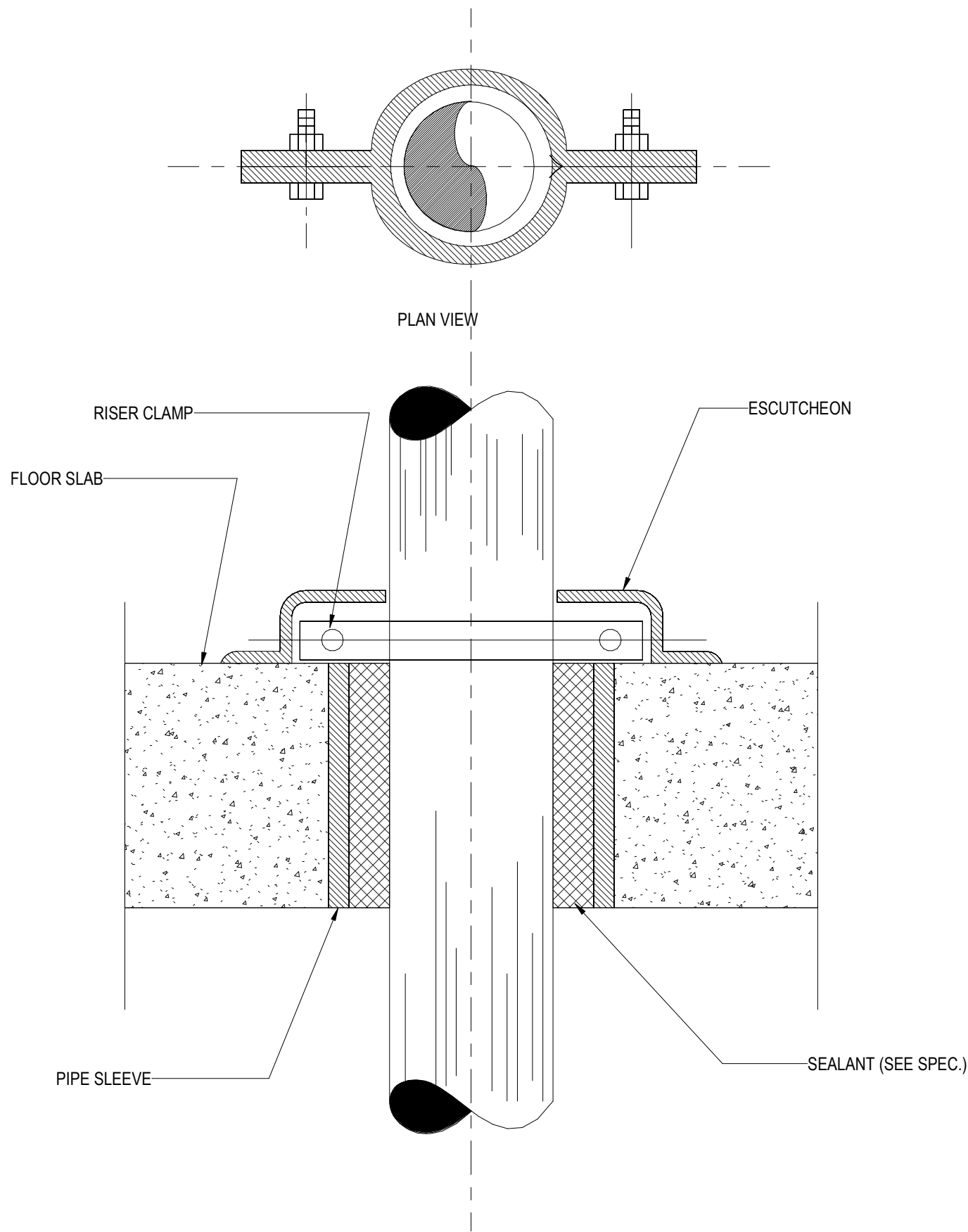
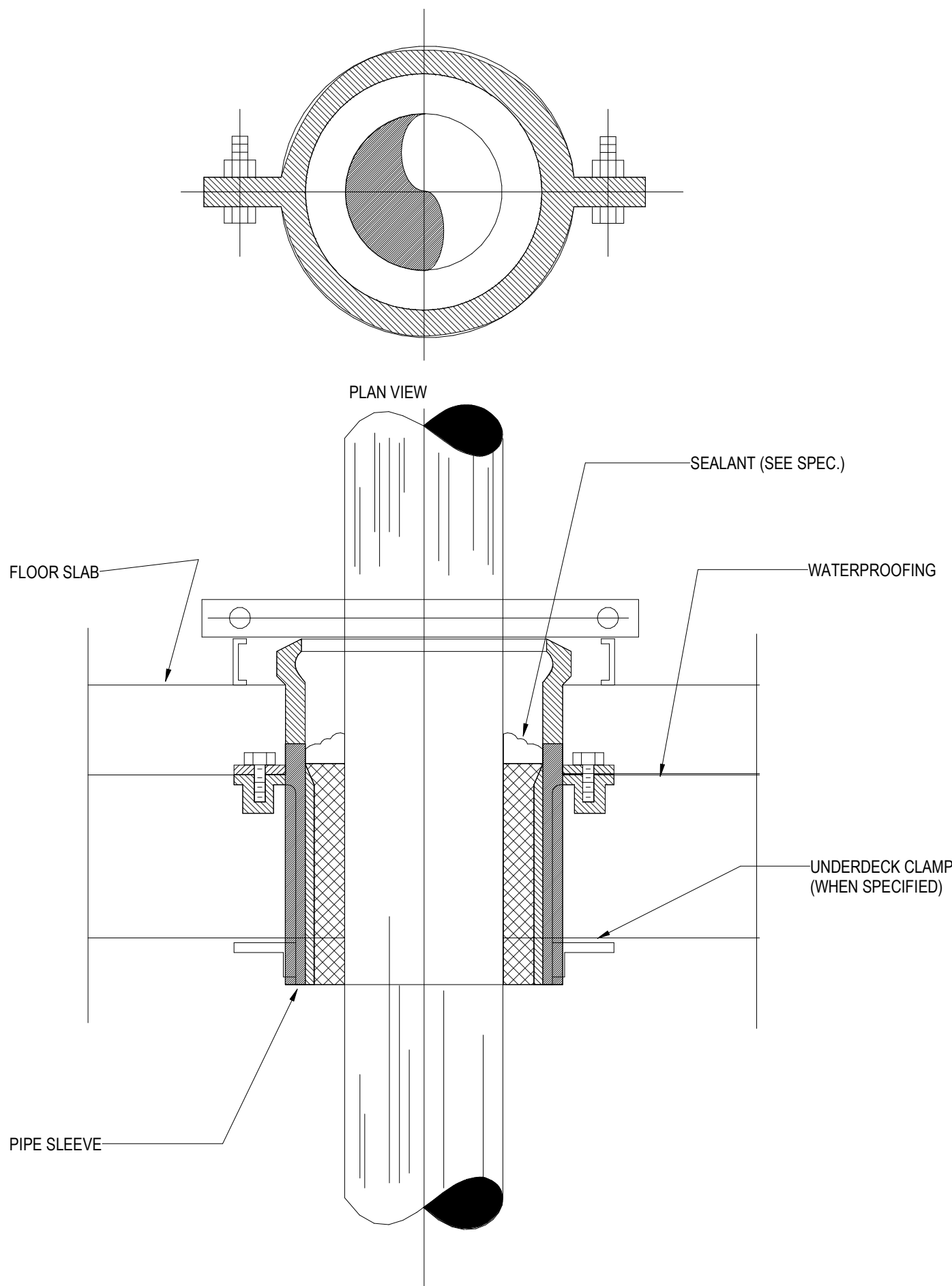
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Drawing Number	P-P-501
Sheet Size	ARCH D



NOTE:
ACCESS PANELS SHALL BE PROVIDED ON ALL VERTICAL FOUL DRAINAGE STACKS AT 4' (1200MM) ABOVE EACH FINISHED FLOOR LEVEL, TO THE CENTERLINE OF THE CLEANOUT.



NOTES:
1. WATERPROOF EXISTING FLOOR OF ROOM WHERE FLOOR DRAIN IS TO BE LOCATED USING THOROSEAL SEALANT OR APPROVED EQUAL.



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Key Plan

Description	Date
50% Design Development	02/24/20
100% Design Development	05/29/20
50% Construction Documents	11/06/20

Project

Storm King Art Center Pond Pavilion

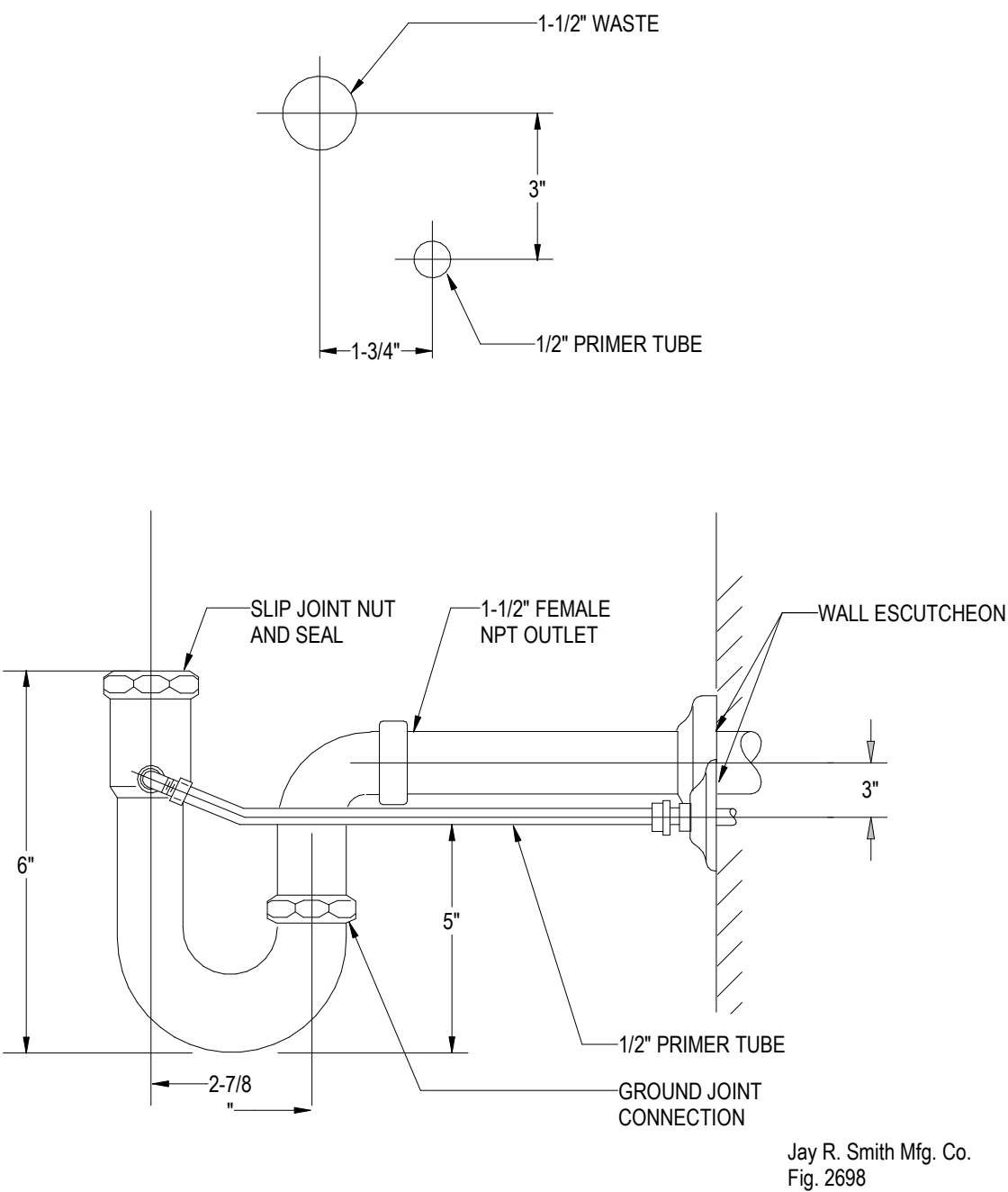
Seal

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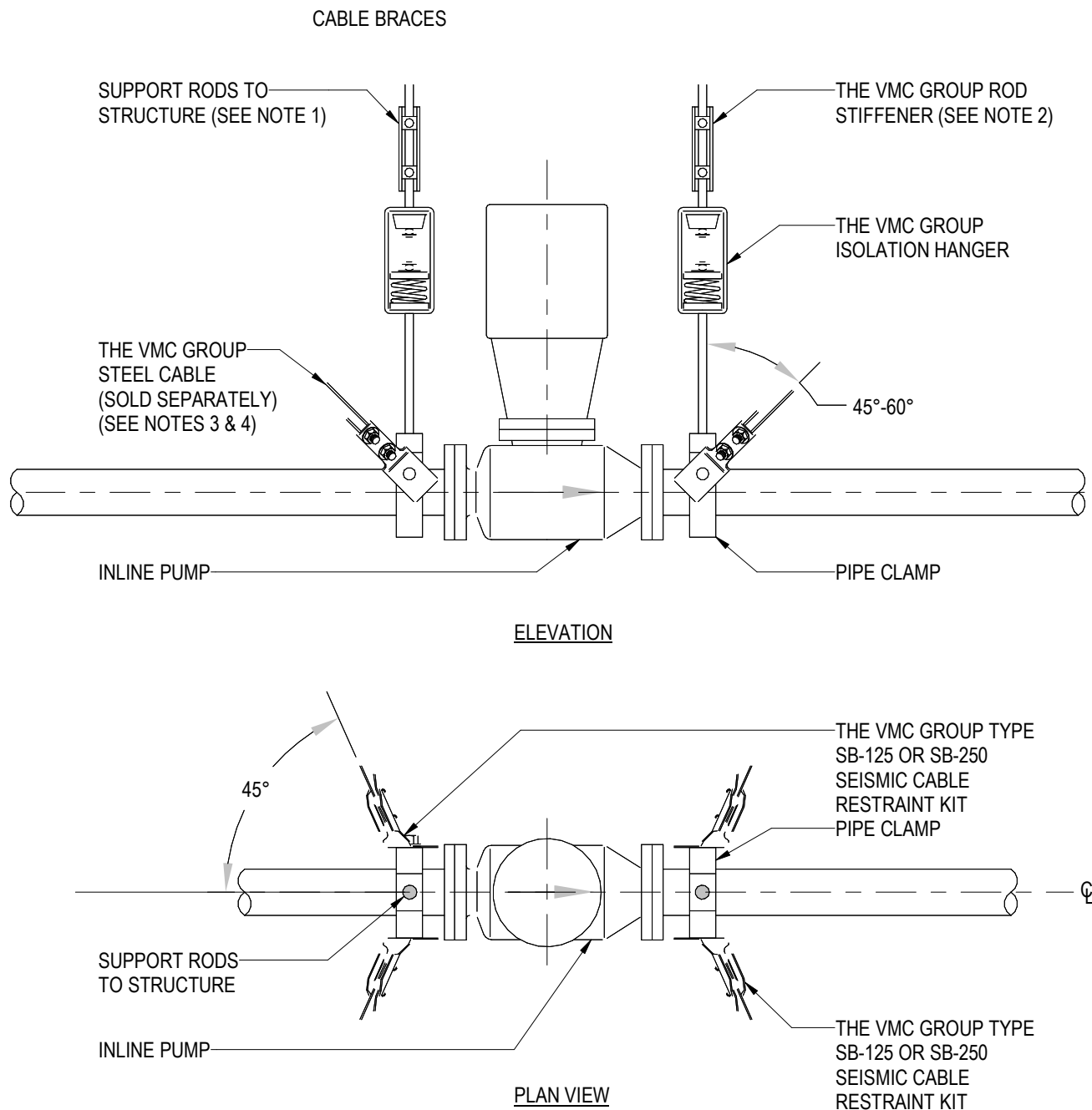
Drawing Title

Plumbing Details

Date	11/06/20
Scale	Not to Scale
Drawing Number	P-P-502
Sheet Size	ARCH D

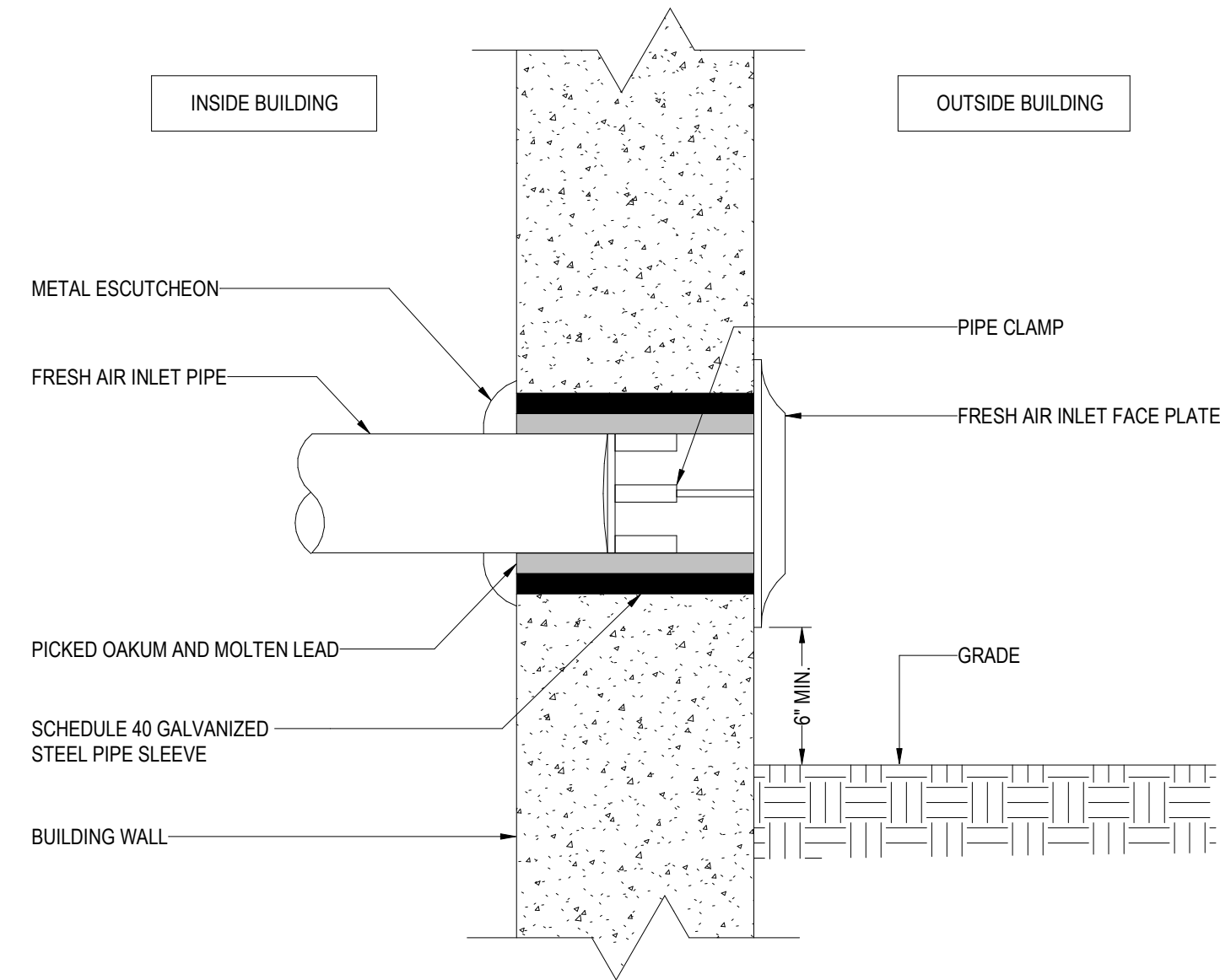


Jay R. Smith Mfg. Co.
Fig. 2698



NOTES:

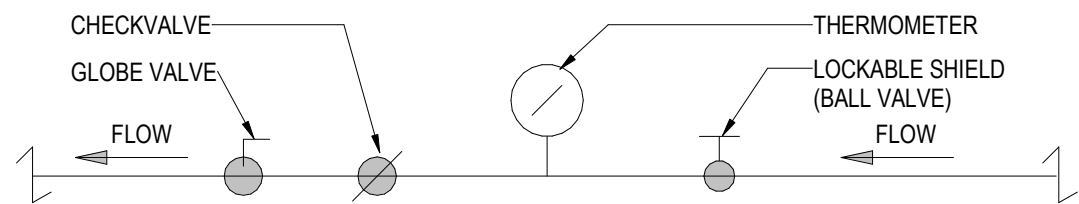
1. DOUBLE-SIDED BEAM CLAMP ATTACHMENTS AT SEISMIC RESTRAINT LOCATIONS.
2. FOR APPLICABILITY OF THE VMC GROUP SRBC (SEISMIC ROD BRACING CLAMP REFER TO SGMEC-190).
3. SLACK CABLE 1/2" IN CENTER IF DUCT IS ISOLATED.
4. FOR DETAILS OF CONNECTION, REFER TO SGMEC-191 OR -193
5. APPLICATION USED WITH 1/8" & 1/4" CABLE ONLY.



1 PRIM-EZE WATER SAVER
NOT TO SCALE

2 INLINE PUMPS
NOT TO SCALE

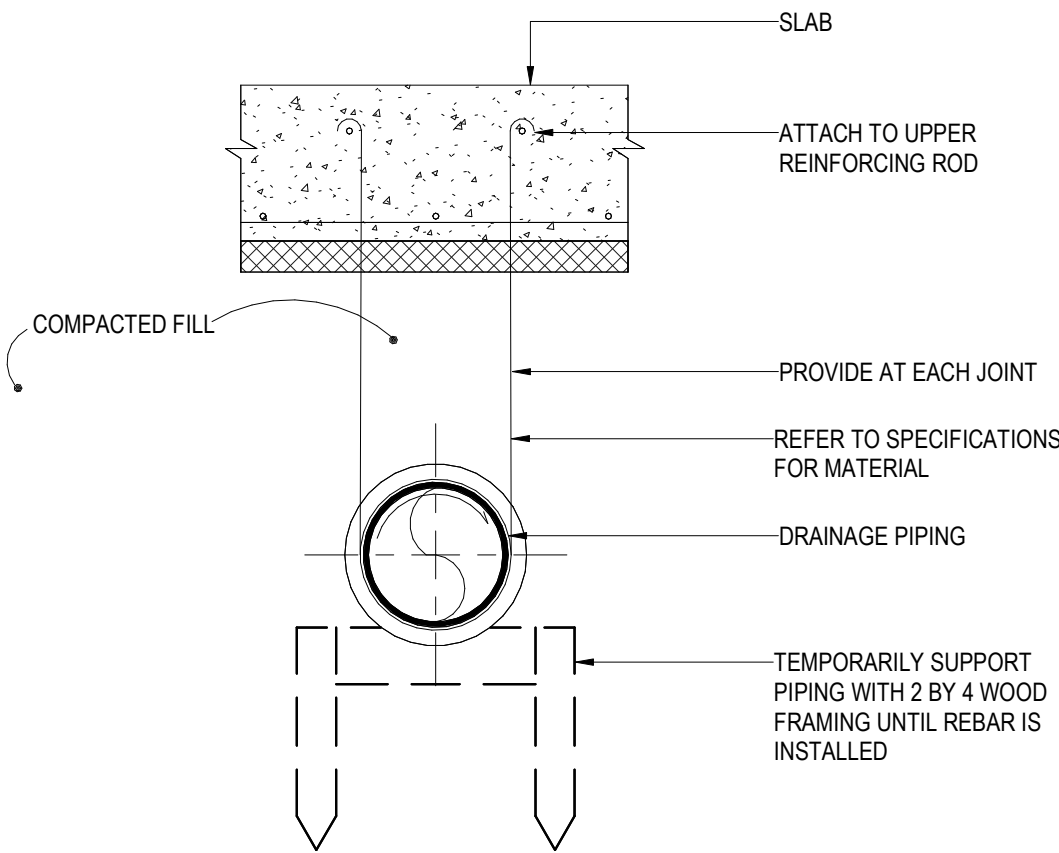
3 FAI
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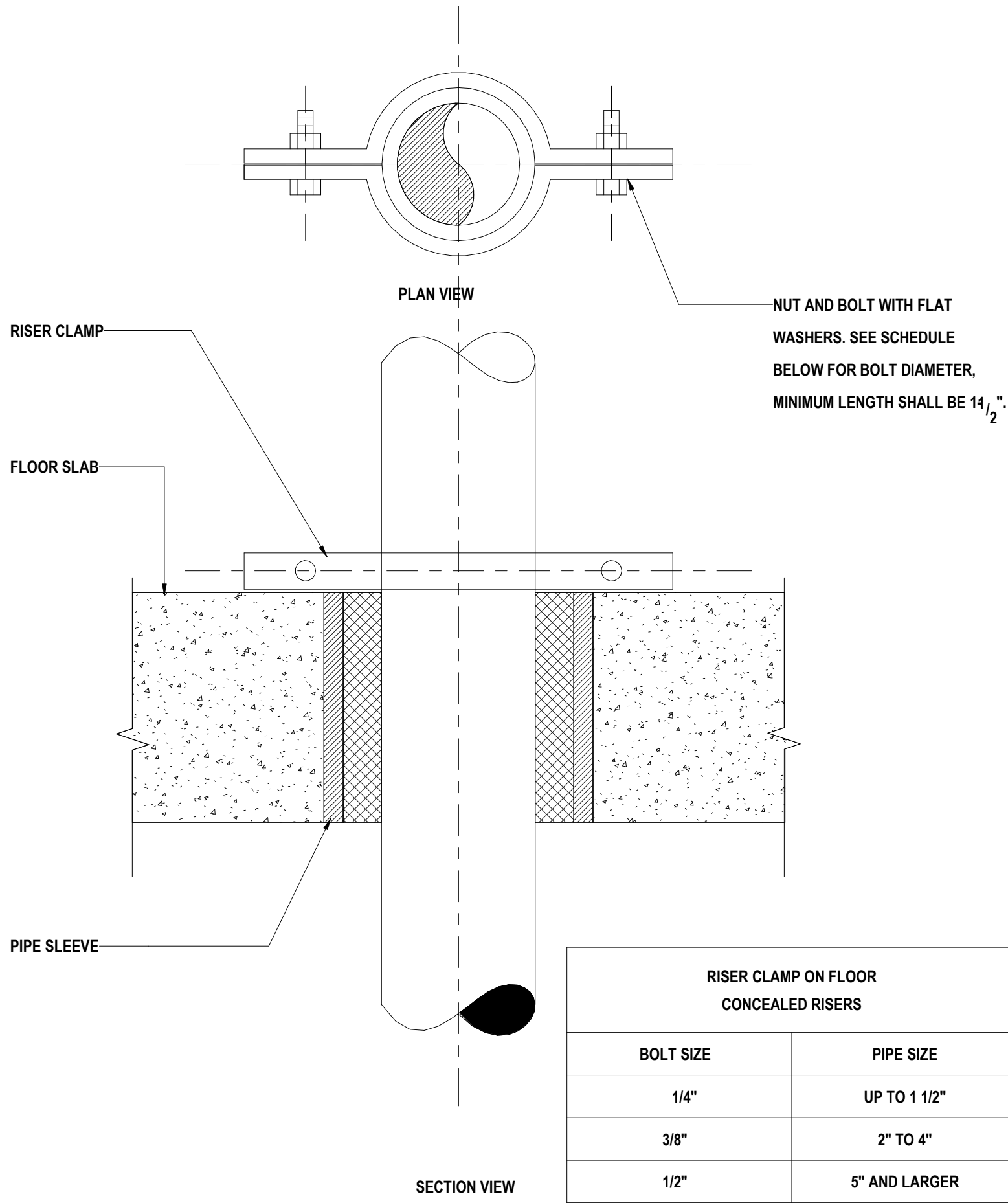
PROCEDURE FOR BALANCING HOT WATER RETURN PIPING

1. IN ORDER TO BALANCE HOT WATER RETURN TEMPERATURES IN THE RETURN PIPING THIS IS THE PROCEDURE TO BE FOLLOWED:

BEFORE A RETURN CIRCULATION SYSTEM IS PUT INTO SERVICE, IT SHOULD BE ADJUSTED FOR RETURN LINE TEMPERATURE BALANCE UNDER CONDITIONS WHEREBY NO WATER IS DRAWN AT FIXTURE OUTLETS. THE ADJUSTMENT PROCEDURE IS SIMPLE AND MAY BE ACCURATELY DONE USING THERMOMETERS. FIRST, CLOSE ALL BALANCING VALVES SO THAT ALL CIRCULATION GOES THROUGH BRANCH 1. THEN, OPEN THE BALANCING VALVE ON BRANCH 2 TO THE DEGREE NECESSARY SO THAT IT RETURNS WATER CONSTANTLY AT THE SAME TEMPERATURE AS BRANCH 1. SIMILARLY, ADJUSTMENT MAY BE MADE WITH BALANCING VALVE ON ANY OTHER RISERS OR BRANCHES SO THAT ALL RETURN WATER IS AT THE SAME TEMPERATURE.
2. CONTRACTOR, AT THE END OF THE PROJECT, TO SUBMIT A REPORT FOR RECORD TO THE ENGINEER THAT THE HOT WATER RETURN CIRCULATION SYSTEM HAS BEEN BALANCED PROPERLY.



PIPE DIAMETER	ROD DIAMETER
UP TO 2IN.	3/8 IN.
2-1/2" - 4IN.	1/2 IN.
5 AND 6IN.	5/8 IN.



4 HW BALANCING VALVE
NOT TO SCALE

5 UNDERGROUND BELOW SLAB
NOT TO SCALE

6 RISER SUPPORT DETAIL
NOT TO SCALE

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Key Plan

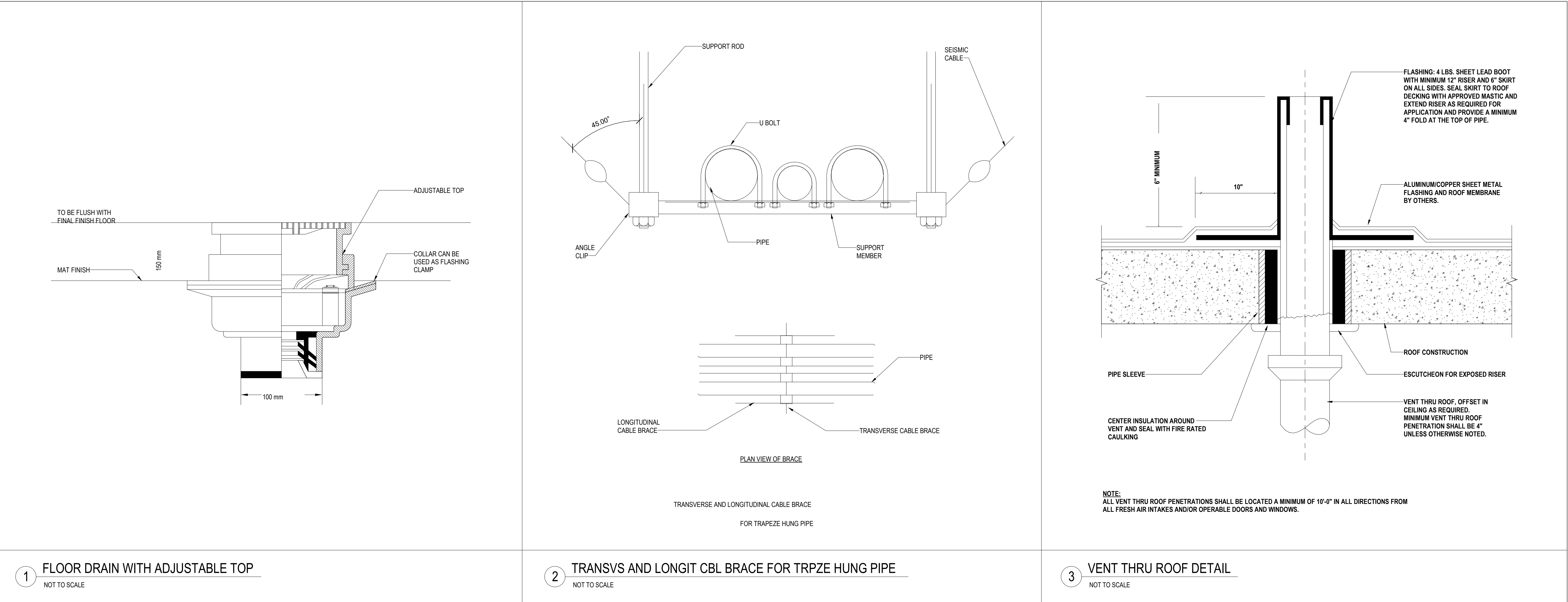
Description	Date
50% Design Development	02/24/20
100% Design Development	05/29/20
50% Construction Documents	11/06/20

Project
Storm King
Art Center
Pond Pavilion

Seal

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Drawing Title
Plumbing Details

Date	11/06/20
Scale	Not to Scale
Drawing Number	P-P-503
Sheet Size	ARCH D



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Key Plan

Description	Date
50% Design Development	02/24/20
100% Design Development	05/29/20
50% Construction Documents	11/06/20

Project

Storm King
Art Center
Pond Pavilion

Seal

NOT FOR CONSTRUCTION
Drawing Title
Plumbing Details

Date	11/06/20
Scale	Not to Scale
Drawing Number	P-P-504
Sheet Size	ARCH D

P - WATER HEATER SCHEDULE												
DESIGNATION	LOCATION	STORAGE WATER TEMPERATURE	VOLUME	DIMENSIONS		RECOVERY	TEMPERATURE RISE	SERVICE	MODEL NUMBER	MANUFACTURER	REMARKS	
				DIAMETER	HEIGHT / LENGTH							
EWHP-1-1	MECH RM	140	35	23"	32"		90	4.5 kW	E6-40L45DVB	AO Smith	PROVIDE THERMAL EXPANSION TANK SIMILAR AMTROL ST-5	

P - REVERSE OSMOSIS TREATMENT PACKAGE SCHEDULE												
DESIGNATION	LOCATION	MANUFACTURER	MODEL NUMBER	SERVICE	QUANTITY	DEMAND (GPM)	ELECTRICAL				SYSTEM WEIGHT (LBS)	REMARKS
							FLA	FREQUENCY	KW	PHASE	VOLTAGE	
ROT	TRASH/PLUMBING		AR-5-2000	DOMESTIC WATER	1	6				1	220 V	115

P - GREASE INTERCEPTOR SCHEDULE												
DESIGNATION	LOCATION	MANUFACTURER	MODEL NUMBER	TYPE	QUANTITY	FLOW (GPM)	CAPACITY (LBS)	VOLTAGE	FREQUENCY	AMPS	DIMENSIONS (LXWXH)	REMARKS
GI - P-1-1	TRASH/PLUMBING		PROCEPTOR 250		1	20						

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100% Design Development	05/29/20
50% Construction Documents	11/06/20

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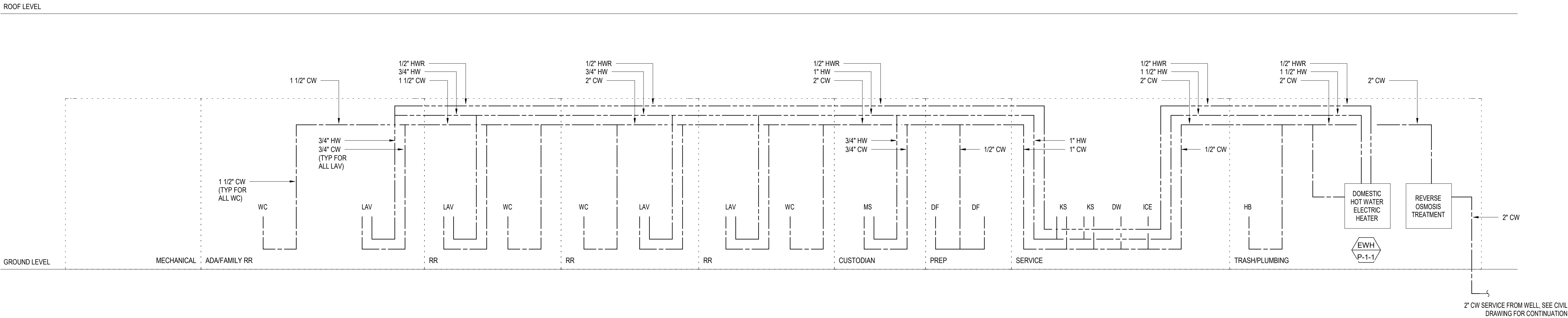
Storm King
Art Center

Pond Pavilion

Seal

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Drawing Title
Plumbing Schedules

Date	11/06/20
Scale	Not to Scale
Drawing Number	P-P-601
Sheet Size	ARCH D



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Key Plan

Description	Date
50% Design Development	02/24/20
100% Design Development	05/29/20
50% Construction Documents	11/06/20

Project

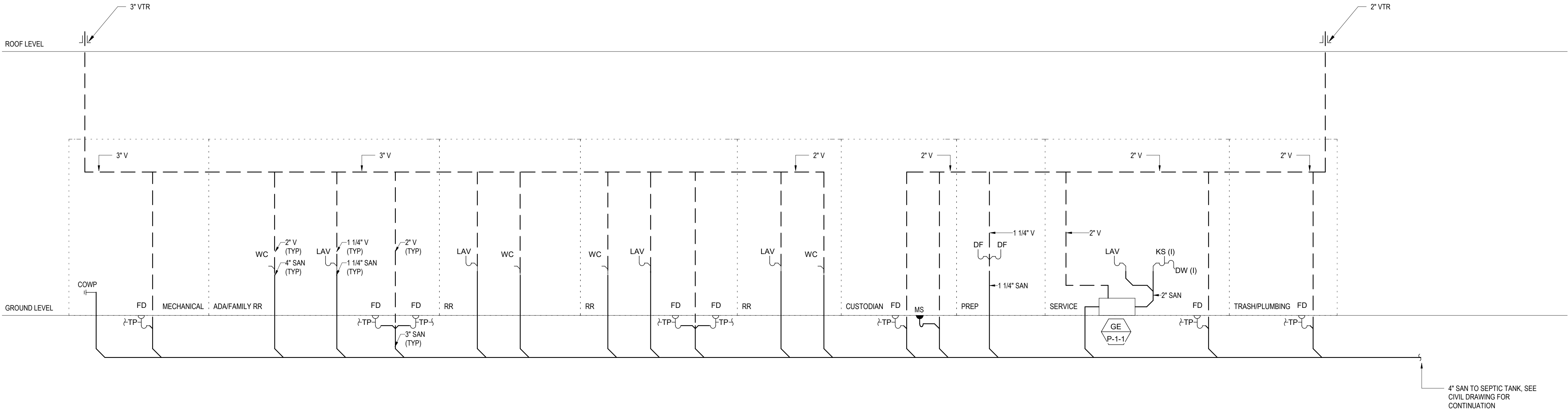
Storm King
Art Center
Pond Pavilion

Seal

NOT FOR CONSTRUCTION

Drawing Title
Domestic water Riser

Date	11/06/20
Scale	Not to Scale
Drawing Number	P-P-701
Sheet Size	ARCH D



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50% Construction Documents	11/06/20

Project

Storm King Art Center Pond Pavilion

Seal

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Drawing Title
Drain & Vent Riser

Date	11/06/20
Scale	Not to Scale
Drawing Number	P-P-702
Sheet Size	ARCH D



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Key Plan

Description	Date
100% Design Development	05/29/20
50% Construction Documents	11/06/20

Project

Storm King Art Center Pond Pavilion

Seal

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Drawing Title
Storm Riser

Date	11/06/20
Scale	Not to Scale
Drawing Number	P-P-703
Sheet Size	ARCH D

WIRED DEVICES	
SYMBOL	DESCRIPTION
	20A NEMA 5-20R, WALL MOUNTED SIMPLEX RECEPTACLE OUTLET
	20A NEMA 5-20R, WALL MOUNTED DUPLEX RECEPTACLE OUTLET
	20A NEMA 5-20R, WALL MOUNTED DUPLEX SWITCHED RECEPTACLE OUTLET
	20A NEMA 5-20R, WALL MOUNTED QUADPLEX RECEPTACLE OUTLET
	SPECIAL RECEPTACLE WALL MOUNTED NEMA CONFIGURATION PER PLAN REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATION AND ORIENTATION
	RECEPTACLE OUTLET MOUNTED ABOVE COUNTER TOP
	MULTIOUTLET ASSEMBLY - SPACING AND QUANTITY AS NOTED ON DRAWINGS
	CEILING MOUNTED RECEPTACLE OUTLET
ABBREVIATIONS	DESCRIPTION
AFCI	ARC-FAULT CIRCUIT INTERRUPTER
AV	DEDICATED OUTLET FOR AUDIO VISUAL EQUIPMENT
TV	TELEVISION
IG	ISOLATED GROUND
GFCI	GROUND-FAULT CIRCUIT INTERRUPTER
MS	MOTORIZED SHADE
MW	DEDICATED OUTLET FOR MICROWAVE
OS	OCCUPANCY SENSOR CONTROLLED 20 MINUTE AUTO SHUT-OFF VIA A 20A RELAY.
WP	GFCI AND WR OUTLET WITH WHILE-IN-USE WEATHERPROOF COVER
REF	DEDICATED OUTLET FOR REFRIGERATOR
C	CONTROLLED RECEPTACLE OUTLET

CABLE AND CONDUIT SYSTEMS	
SYMBOL	DESCRIPTION
	HEAVY LINES INDICATE NEW WORK
	LIGHT LINES INDICATE EXISTING WORK TO REMAIN
	CONDUIT TURNED UP
	CONDUIT TURNED DOWN
	CONDUIT STUB WITH WIRE PULL AND CAP
	UNDERGROUND CONDUIT OR DUCT BANK

LIGHTING	
SYMBOL	DESCRIPTION
	"L2" INDICATES FIXTURE TYPE
	"(EM)" INDICATES FIXTURES ON EMERGENCY POWER
	"a" LOWER CASE LETTER INDICATES SWITCH CONTROL
	"01" LOWER CASE # INDICATES DAYLIGHT CONTROL ZONE
	"3" DENOTES CIRCUIT NUMBER
	RECTANGULAR LIGHT FIXTURE
	CIRCULAR LIGHT FIXTURE
	EXIT SIGN REFER TO ARCHITECTURAL EGRESS DRAWINGS FOR ORIENTATION OF EXIT SIGN ARROWS AND FACES

ONE LINE AND RISER DIAGRAM	
SYMBOL	DESCRIPTION
	TRANSFORMER WITH SECONDARY GROUND
	PRIMARY WINDING TYPE
	SECONDARY WINDING TYPE
	TRANSFORMER DESIGNATION
	TRANSFORMER RATING
	DRAWOUT CIRCUIT BREAKER
	FRAME RATING
	TRIP RATING
	BREAKER DESIGNATION
	CIRCUIT BREAKER
	FRAME RATING
	TRIP RATING
	BREAKER DESIGNATION
	SWITCH DESIGNATION
	SWITCH RATING
	FUSE RATING
	GROUND FAULT SENSOR
	EQUIPMENT MOUNTED THREE PHASE ENERGY METER
	PANELBOARD MOUNTED SINGLE PHASE ENERGY METER
	GENERATOR
	AUTOMATIC TRANSFER SWITCH

NOTE - REFER TO EQUIPMENT SCHEDULE FOR FUSE, CIRCUIT BREAKER AND DISCONNECT RATING

TYPICAL DEVICE MOUNTING HEIGHTS DETAIL	
	PROVIDE PENDANT WHERE HUNG CEILING OR STRUCTURE EXCEEDS 8'-6" AFF. EXIT SIGN FIRE ALARM AUDIO/VISUAL DEVICES (SEE NOTE 4) KEY SWITCH (KS) SWITCHES WALL TELEPHONES FIRE ALARM PULL STATION TELEPHONE/DATA OUTLETS ABOVE COUNTER RECEPTACLES ABOVE COUNTER TELEPHONE/DATA OUTLETS RECEPTACLES FINISHED FLOOR
NOTE: 1. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND ARCH. PLAN ELEVATIONS PRIOR TO ROUGHING IN ANY DEVICES ABOVE COUNTERS. ALL MOUNTING HEIGHTS SHALL BE CONFIRM WITH ARCH. PLANS AND ELEVATIONS. 2. ALL MOUNTING HEIGHTS SHALL BE MEASURED FROM FINISHED FLOOR TO CENTERLINE OF DEVICE EXCEPT EXIT SIGNS AND FIRE ALARM VISUAL DEVICES 3. DEVICES SHALL BE INSTALLED ON A COMMON VERTICAL CENTERLINE WHEREVER POSSIBLE 4. FIRE ALARM AUDIO/VISUAL DEVICE TO BE MOUNTED AT 6'-8" ABOVE FINISHED FLOOR OR AT 6" BELOW FINISHED CEILING, WHICHEVER IS LOWER. DIMENSION IS TO THE BOTTOM OF THE VISUAL PORTION OF THE DEVICE	

POWER	
SYMBOL	DESCRIPTION
	EQUIPMENT DESIGNATION AHU-1 3/4HP, 208/120V/2P3W DISCONNECT/STARTER TYPE EQUIPMENT TYPE NUMBER OF POLES & WIRES EQUIPMENT UTILIZATION VOLTAGE EQUIPMENT LOAD IN KVA OR HP
PANEL NAMING CONVENTION : E DP L A 1 1 SEQUENCE 1, 2, 3 ... LOCATION "#" - FLOOR LEVEL BUILDING/ AREA "A" - ADMINISTRATION "W" - WELCOME "P" - POND PAVILION "C" - CONSERVATION AND MAINTENANCE VOLTAGE LEVEL "H" - 480Y/277V "L" - 208Y/120V PANEL TYPE "MSB" - MAIN SERVICE BOARD "GDB" - GENERATOR DISTRIBUTION BOARD "PB" - PANELBOARD "DP" - DISTRIBUTION PANEL "TX" - TRANSFORMER "ATS" - AUTOMATIC TRANSFER SWITCH POWER TYPE "E" - NORMAL POWER "S" - LIFE SAFETY EMERGENCY POWER (NEC 700) "ST" - LEGALLY REQUIRED STANDBY POWER (NEC 701) "O" - OPTIONAL STANDBY POWER (NEC 702)	
	PANELBOARD - DASHED OUTLINE DENOTES WORKING SPACE CLEARANCES.
	NORMAL POWER PANEL
	EMERGENCY (NEC BRANCH 700) POWER PANEL
	CRITICAL (NEC BRANCH 701 LEGALLY REQUIRED STANDBY) POWER PANEL
	STANDBY (NEC BRANCH 702 OPTIONAL STANDBY) POWER PANEL
	DRY TYPE ENERGY EFFICIENT TRANSFORMER PROVIDE PRIMARY AND/OR SECONDARY FUSED DISCONNECT AS REQUIRED COORDINATE CONCRETE HOUSE KEEPING PAD WITH STRUCTURAL CONTRACTOR
	JUNCTION BOX "FSD" DENOTES FIRE SMOKE DAMPER "VAV" DENOTES VARIABLE AIR VOLUME DEVICE
	HARD-WIRED CONNECTION
	MOTOR
	FUSED DISCONNECT SWITCH
	NON-FUSED DISCONNECT SWITCH
	ENCLOSED CIRCUIT BREAKER SWITCH
	VARIABLE FREQUENCY DRIVE WITH FUSE DISCONNECT SWITCH
	COMBINATION MOTOR STARTER
	MOTOR STARTER
	DISCONNECT SWITCH "M" DENOTES MANUAL MOTOR STARTER "T" DENOTES HEAVY DUTY TOGGLE SWITCH
	CIRCUIT HOMERUN - SHORT TICK MARKS INDICATES NUMBER OF HOT WIRES, LONG TICK MARK INDICATES NEUTRAL WIRE AND THE DOT INDICATES THE GROUND WIRE.

LIGHTNING PROTECTION	
	AIR TERMINAL LOCATION
	CONNECTION
	GROUNDING CONNECTION TO TRIPOD GROUNDING RING WITH INSPECTION TEST WELL.
	COUNTERPOISE LOOP BELOW GRADE. NO. 1/2" COPPER CABLE, U.L. LABELED, 29 ST., 17 GA., 192 LBS./1,000 FT., 59,450 CM. (2# AWG)
	NO. 1/2" COPPER CABLE, U.L. LABELED, 29 ST., 17 GA., 192 LBS./1,000 FT., 59,450 CM. (2# AWG)
	DOWN CONDUCTOR IN PVC CONDUIT
	GROUND CONNECTION TO BUILDING GROUNDING LOOP
	THRU-ROOF CABLE CONNECTION
	THRU-WALL LOCATION
	STEEL COLUMN GROUNDING CONNECTION TO TRIPOD GROUNDING RING WITH INSPECTION TEST WELL
	GROUND CONNECTION TO BUILDING SERVICE PANEL FROM HANDHOLE
	GROUND CONNECTION TO BUILDING STEEL WHERE REQUIRED

LIGHTING CONTROL DEVICES	
SYMBOL	DESCRIPTION
	LINE VOLTAGE LIGHT SWITCH LOWER CASE LETTER DENOTES LIGHTING ZONE "3" DENOTES THREE WAY SWITCH
	CEILING MOUNTED PIR VACANCY SENSOR
	CEILING MOUNTED ULTRASOUND VACANCY SENSOR
	CEILING MOUNTED DUAL TECH. VACANCY SENSOR
	PIR OCCUPANCY SENSOR SWITCH
	ULTRASOUND OCCUPANCY SENSOR SWITCH
	DUAL TECH. OCCUPANCY SENSOR SWITCH
	WALL MOUNTED PIR OCCUPANCY SENSOR
	DAYLIGHT SENSOR SEE LIGHTING SPECIFICATION
	WALL MOUNTED PILOT LIGHT
ABBREVIATION	DESCRIPTION
a	LOWER CASE LETTER DENOTES LIGHTING ZONE
3	THREE WAY SWITCH
4	FOUR WAY SWITCH
D	LINE VOLTAGE DIMMER SWITCH
LD	LOW VOLTAGE DIMMER SWITCH
K	KEY OPERATED SWITCH
LV	LOW VOLTAGE SWITCH
SS	SCENE SET WALL STATION
O	OCCUPANCY SENSOR (AUTO ON/AUTO OFF)
V	VACANCY SENSOR (MANUAL ON/AUTO OFF)

ELECTRICAL ABBREVIATIONS	
ABBREVIATION	DEFINITION
A	AMPERE
AF	AMPERE FRAME
A.F.F.	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
BKR	BREAKER
C	CONDUIT
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
COMM	COMMUNICATION
CKT	CIRCUIT
DIA	DIAMETER
DISC	DISCONNECT
DN	DOWN
EM	EMERGENCY
EC	EMPTY CONDUIT
EF	EXHAUST FAN
ELEC	ELECTRICAL
EMT	ELECTRICAL METAL TUBING
EX	EXISTING
ETR	EXISTING TO REMAIN
FBO	FURNISHED BY OTHER
FDR	FEEDER
FLEX	FLEXIBLE
FMC	FLEXIBLE METAL CONDUIT
FSD	FIRE SMOKE DAMPER
FT	FEET OR FOOT
GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GSC	GALVANIZED STEEL CONDUIT
HP	HORSE POWER
HZ	HERTZ
IMC	INTERMEDIATE METAL CONDUIT
IG	ISOLATED GROUND
KAIC	KILO-AMPS INTERRUPTING CAPACITY
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATT
LTG	LIGHTING
MCB	MAIN CIRCUIT BREAKER
MCM,KCML	THOUSAND CIRCULAR MILS
MD	MOTORIZED DAMPER
ML	MAGNETIC DOOR HOLDER
MLC	MOTOR LOGIC CONTROL
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MTG	MOUNTING
MTS	MANUAL TRANSFER SWITCH
N	NORMAL
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PC	PERSONAL COMPUTER
PH, Ø	PHASE
PNL	PANEL
PWR	POWER
RL	RELOCATED EXISTING DEVICE
REF	REFRIGERATOR
SCCR	SHORT CIRCUIT CURRENT RATING
SD	SMOKE DAMPER
SP	SMOKE PURGE
SS	STAINLESS STEEL
TYP	TYPICAL
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
UIC	UNDERCOUNTER
UH	UNIT HEATER
U.O.N.	UNLESS OTHERWISE NOTED
V	VOLTAGE
VB	VIEWBOX
VFD	VARIABLE FREQUENCY DRIVE
W	WIRE
WOS	WITHOUT SUBSTITUTION
WP	WEATHERPROOF
WR	WEATHER-RESISTANT

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Key Plan

Description	Date
50% Design Development	02/24/20
100% Design Development	05/29/20
50% Construction Documents	11/06/20

Project

Storm King Art Center Pond Pavilion

Seal

NOT FOR CONSTRUCTION

Drawing Title
Abbreviations, Symbols, and Legends

Date	11/06/20
Scale	Not to Scale
Drawing Number	E-P-001
Sheet Size	ARCH D

A. CONTRACT PERFORMANCE

1. EXECUTE THE WORK IN THE BEST AND MOST THOROUGH MANNER AND TO THE SATISFACTION OF THE CONSULTING ENGINEER, WHO WILL JOINTLY INTERPRET THE MEANING OF THE DRAWINGS AND SPECIFICATIONS AND SHALL HAVE THE POWER TO REJECT ANY WORK AND MATERIALS, WHICH IN THEIR JUDGMENT ARE NOT IN FULL ACCORDANCE THEREWITH.

2. EXCEPT FOR CHANGES AS MAY BE SPECIFICALLY APPROVED BY THE CONSULTING ENGINEERS, IN ACCORDANCE WITH ALTERNATES OF OPTIONS STATED HEREINAFTER, ALL WORK MUST BE IN FULL ACCORDANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS, COMPLETE IN EVERY WAY AND READY FOR SATISFACTORY AND EFFICIENT OPERATION WHEN DELIVERED TO THE OWNER.

3. WHERE DISAGREEMENTS OCCUR BETWEEN THE PLANS AND THE SPECIFICATIONS, OR WITHIN EITHER DOCUMENT ITSELF, THE ITEM OR ARRANGEMENT OF BETTER QUALITY, GREATER QUANTITY OR HIGHER COST SHALL BE INCLUDED IN THE BASE BID.

4. THE DRAWINGS SHOW THE VARIOUS CONDUIT AND PIPING SYSTEMS SCHEMATICALLY. CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY JUNCTION BOXES, PULL BOXES, SUPPORT AND ACCESSORIES TO MEET APPLICABLE CODES, BUILDING STANDARDS AND FULFILL CONTRACT DOCUMENTS. NO ADDED COMPENSATION WILL BE PERMITTED FOR VARIATIONS DUE TO FIELD CONDITIONS.

5. THE CONTRACTOR COVENANTS AND AGREES THAT THEY AND THEIR SUBCONTRACTORS AND THEY AND THEIR AGENTS, SERVANTS AND EMPLOYEES WILL PROVIDE AND MAINTAIN A SAFE PLACE TO WORK AND THAT THEY WILL COMPLY WITH ALL LAWS AND REGULATIONS OF ANY GOVERNMENTAL AUTHORITY HAVING JURISDICTION THEREOF AND THE CONTRACTOR AGREES TO INDEMNIFY, DEFEND AND HOLD HARMLESS THE CONSULTING ENGINEER, ARCHITECT AND OWNER FROM AND AGAINST ANY LIABILITY, LOSS, DAMAGE OR EXPENSE, INCLUDING ATTORNEY'S FEES ARISING FROM FAILURE OR ALLEGED FAILURE ON THE PART OF THE CONTRACTOR, THEIR SUBCONTRACTORS AND THEIR AGENTS, SERVANTS AND EMPLOYEES TO PROVIDE AND MAINTAIN A SAFE PLACE TO WORK OR TO COMPLY WITH ALL LAWS AND REGULATIONS OF ANY GOVERNMENTAL AUTHORITY HAVING JURISDICTION THEREOF.

6. THE CONTRACTOR AND EACH SUBCONTRACTOR COVENANTS AND AGREES TO INDEMNIFY, DEFEND AND HOLD HARMLESS THE CONSULTING ENGINEER, ARCHITECT AND OWNER FROM AND AGAINST ANY LIABILITY, LOSS, DAMAGE OR EXPENSE, INCLUDING ATTORNEY'S ARISING FROM A FAILURE OR ALLEGED FAILURE ON THE PART OF THE CONTRACTOR, THEIR SUBCONTRACTORS AND THEIR AGENTS, SERVANTS AND EMPLOYEES PROPERLY TO DISCHARGE THE OBLIGATIONS ASSUMED BY THEM IN THE PERFORMANCE OF THE WORK, INCLUDING ANY ACT OR OMISSION ALLEGEDLY RESULTING IN DEATH OR PERSONAL INJURY OR PROPERTY DAMAGE OR IMPROPER CONSTRUCTION, CONSTRUCTION TECHNIQUES OR THE USE OF IMPROPER OR INAPPROPRIATE MATERIAL OR TOOLS.

7. THE CONTRACTOR AGREES THAT ANY CONTROVERSY OR DISPUTE TO WHICH THE CONTRACTOR, THE ARCHITECT, AND THE CONSULTING ENGINEERS ARE PARTIES SHALL BE SUBMITTED TO ARBITRATION FOR DECISION IN ACCORDANCE WITH THE RULES OF SUCH ASSOCIATION FOR CONSTRUCTION INDUSTRY DISPUTES. ALL SUBCONTRACTORS LIKEWISE AGREE TO SUBMIT TO SUCH ARBITRATION ANY DISPUTE BETWEEN OR AMONG THEM, THE CONTRACTOR, THE ARCHITECT AND THE CONSULTING ENGINEERS, AND THE CONTRACTOR AGREES TO MAKE AVAILABLE TO THE CONSULTING ENGINEERS ON DEMAND SIGNED COPIES OF THE CONTRACT BETWEEN THE OWNER AND THE CONTRACTOR AND BETWEEN THE CONTRACTOR AND THEIR SUBCONTRACTORS. THE CONTRACTOR AND EACH SUBCONTRACTOR AGREE THAT BY SUBMITTING A BID WHICH IS ACCEPTED, THIS PARAGRAPH SHALL BE DEEMED A WRITTEN AGREEMENT TO SUBMIT ANY CONTROVERSY THEREAFTER ARISING ARBITRATION.

8. ALL WORK SHALL BE DONE IN CONFORMANCE WITH THE FOLLOWING STANDARDS:

- A. THE NATIONAL ELECTRICAL CODE.
- B. THE NEW YORK STATE BUILDING CODE.
- C. THE REQUIREMENTS OF UNDERWRITERS' LABORATORIES INC.
- D. AMERICAN NATIONAL STANDARD INSTITUTE
- E. ILLUMINATING ENGINEERING SOCIETY
- F. CERTIFIED BALLAST MANUFACTURERS
- G. O.S.H.A. AND ALL AGENCIES HAVING JURISDICTION.

9. OBTAIN ALL NECESSARY PERMITS AND APPROVAL FROM GOVERNING AUTHORITIES AND FILE ALL NECESSARY FORMS. PAY ALL INSPECTION FEES.

10. COORDINATE SCHEDULING OF ALL WORK TO BE PERFORMED WITH OWNER AND/OR THEIR AGENT AND INCLUDE ALL NECESSARY PREMIUM TIME REQUIRED FOR SHUTDOWNS, WORK IN OCCUPIED AREAS, ETC.

11. ALL AREAS ASSOCIATED WITH WORK TO BE PERFORMED SHALL BE EXAMINED PRIOR TO BID SUBMISSION. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR CONDITIONS FOUND DURING INSTALLATION.

12. BEFORE COMMENCING WORK, EXAMINE ALL ADJOINING WORK ON WHICH THIS WORK IS IN ANY WAY DEPENDENT FOR PERFECT WORKMANSHIP ACCORDING TO THE INTENT OF THIS SPECIFICATION, AND REPORT TO THE CONSTRUCTION MANAGER ANY CONDITION WHICH PREVENTS PERFORMANCE OF FIRST-CLASS WORK. NO "WAIVER OF RESPONSIBILITY" FOR INCOMPLETE, INADEQUATE OR DEFECTIVE ADJOINING WORK WILL BE CONSIDERED UNLESS NOTICE HAS BEEN FILED BEFORE SUBMITTAL OF A PROPOSAL.

13. COORDINATE ALL WORK WITH OTHER TRADES TO INSURE INSTALLATION IS MADE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

14. FURNISH ADEQUATE LIABILITY INSURANCE AND BONDING AS REQUIRED BY OWNER.

15. INCLUDE ALL LABOR, MATERIALS, AND APPURTENANCES REQUIRED FOR THE FURNISHING, INSTALLING AND TESTING OF ALL WORK. COMPLETE AND MAKE READY FOR OPERATION IN A MANNER SATISFACTORY TO THE ARCHITECT AND CONSULTING ENGINEER, ALL WORK SHOWN ON DRAWINGS AND SPECIFIED HEREIN.

16. ALL WORK SHALL BE GUARANTEED FOR TWO (2) FULL YEARS FROM THE DATE WHEN THE OWNER HAS ISSUED A "CERTIFICATE OF SUBSTANTIAL COMPLETION".

INSTALLATION PROCEDURE

1. THIS CONTRACTOR'S WORK SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING: FURNISHING AND INSTALLATION OF ALL ELECTRICAL WORK, INCLUDING ELECTRICAL AND COMMUNICATIONS OUTLETS IN WALLS AND FLOOR, LIGHTING FIXTURES WITH LAMPS, SWITCHES, DIMMERS, EMERGENCY BATTERY UNITS, ETC., AND ASSOCIATED BRANCH CIRCUIT WIRING, DISCONNECT SWITCHES, SPECIAL RECEPTACLES, ETC. ALL SPECIAL EQUIPMENT, SUCH AS FANS, AIR CONDITIONING UNITS, COPIERS, ETC. WILL BE FURNISHED BY OTHERS (U.O.N.), WHERE EQUIPMENT REQUIRES PERMANENT CONNECTIONS, THESE CONNECTIONS SHALL BE PROVIDED WITH APPROPRIATE DISCONNECTING MEANS.

2. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WORK SHOWN ON DRAWINGS WITH OTHER TRADES TO ASSURE THAT ALL SYSTEMS ARE COMPLETE AND OPERATIONAL. THIS CONTRACTOR SHALL COORDINATE ALL EQUIPMENT LOCATIONS AND CONDUIT RUNS SUPPLIED AND/OR INSTALLED UNDER THIS SECTION TO AVOID CONFLICTS OR OBSTRUCTIONS TO OTHER TRADES. THIS CONTRACTOR SHALL PROVIDE ALL NECESSARY PULL BOXES, VERTICAL SUPPORT BOXES, AND CONDUIT OFFSETS REQUIRED TO ACCOMPLISH THE ABOVE NOTED COORDINATION AT NO ADDITIONAL COST TO THE OWNER, WHETHER OR NOT INDICATED ON PLANS. ALL VERTICAL SUPPORT BOXES, PULL BOXES, ETC. SHALL BE INSTALLED WHERE REQUIRED TO FACILITATE PULLS AND AT CODE REQUIRED INTERVALS, AT A MINIMUM.

3. CONDUIT RUNS INDICATED ON PLAN ARE FOR REFERENCE ONLY. EXACT LOCATIONS AND ELEVATION SHALL BE DETERMINED AFTER COORDINATION WITH OTHER TRADES. THIS CONTRACTOR SHALL SUPPLY, AS PART OF THEIR SHOP DRAWING SUBMISSION, THE EXACT LOCATION OF ALL CEILING MOUNTED EQUIPMENT AND CONDUIT RUNS INCLUDING PROPOSED LOCATIONS AND MEANS OF SUPPORT AS WELL AS THE EXPECTED LOAD CONCENTRATION AT THE POINTS OF ATTACHMENT. THE ABOVE NOTED INFORMATION SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER BEFORE ANY WORK IS TO COMMENCE.

4. FURNISH AND INSTALL ALL NECESSARY CABLE SUPPORT BOXES, PULL BOXES AND CONDUIT SUPPORTS, WHERE NOTED AND AS REQUIRED BY APPLICABLE CODES. ALL LOW TENSION (COMMUNICATIONS, SECURITY, AV, ETC.) CONDUIT, FIRE ALARM CONDUIT, ETC., WHICH HAVE RUNS IN EXCESS OF 100 FEET IN LENGTH AND/OR CONTAINING BENDS IN EXCESS OF 180 DEGREES SHALL BE PROVIDED WITH A PULLBOX. ALL PULLBOXES SHALL BE LABELED FOR THEIR INTENDED USE. DECALS SHALL BE PROVIDED TO INDICATE VOLTAGE LEVEL, FIRE ALARM SYSTEM BOXES SHALL BE PAINTED RED, AND ALL WIRE AND CABLE PROVIDED UNDER THIS SECTION SHALL BE TAGGED (WITH FEEDER OR BRANCH CIRCUIT DESIGNATION) AT ALL BOXES. WHERE CONDUIT BENDS ARE REQUIRED IN COMMUNICATIONS RACEWAY SYSTEMS, THE RADIUS OF THE RACEWAY BEND SHALL NOT BE LESS THAN TEN TIMES THE DIAMETER OF THE RACEWAY. PULL BOXES FOR COMMUNICATION RACEWAYS WILL BE PROVIDED IN STRAIGHT PULLS ONLY. LABEL EACH RACEWAY (PER TECHNOLOGY DEPT. REQUIREMENTS) EVERY 50 FEET HORIZONTALLY AND ON EACH FLOOR VERTICALLY. SUBMIT LABELING SYSTEM FOR REVIEW.

5. SURVEY EXISTING SPACE, CLOSETS AND PANELBOARDS TO VERIFY SUITABILITY OF INSTALLATION DESIGN INDICATED. ANY MODIFICATIONS NECESSARY TO COMPLY WITH THE DESIGN INTENT SHALL BE INCLUDED IN BID SUBMITTED AND SHALL BE HIGHLIGHTED SO THAT CONSIDERATION TO SAME IS GIVEN DURING BID EVALUATION. INCLUDED IN THIS REQUIREMENT, SHALL BE THE EVALUATION OF THE AVAILABILITY OF BRANCH CIRCUIT CAPACITY TO ACCOMMODATE THE NUMBER OF BRANCH CIRCUITS REQUIRED ON THE DESIGN DOCUMENTS. REROUTING OF CIRCUITS TO ALTERNATE PANELS WITHIN THE SAME CLOSET OR AREA, SHALL BE INCLUDED IN BID PROPOSAL. CIRCUIT NUMBERS INDICATED ARE FOR REFERENCE ONLY.

6. UNLESS SPECIFICALLY APPROVED, NO WIRES SHALL BE PULLED IN UNTIL THE CONDUIT SYSTEM IS COMPLETED. NO GREASE OR OIL SHALL BE USED TO FACILITATE THE PULLING OF WIRES. ONLY APPROVED PULLING COMPOUND SHALL BE USED. ALL WIRES SHALL BE CONTINUOUS BETWEEN OUTLET AND OUTLET, OR FROM PANELBOARD TO THE FIRST OUTLET. JOINTS THAT BECOME NECESSARY FOR CIRCUIT WORK AT THE OUTLETS SHALL BE MADE WITH APPROVED PRESSURE CONNECTORS. ALL JOINTS SHALL BE COVERED WITH AN INSULATION EQUAL TO THAT ON THE CONDUCTORS. APPROVED PRESSURE CONNECTORS, IDEAL WINGNUTS, SCOTCH-LOCK, BUCHANAN, OR AS APPROVED, SHALL BE USED.

7. EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL LIGHTING FIXTURES, SWITCHES, WALL OUTLETS, ETC. SHALL BE IN ACCORDANCE WITH ARCHITECTURAL DRAWINGS. ANY DEVICE OR OUTLET WHICH IS SHOWN ON THE ARCHITECTURAL DRAWINGS AS EXISTING TO REMAIN, WHICH IS NOT SHOWN ON THE ELECTRICAL DRAWINGS, SHALL BE LEFT AS EXISTING AND RELOCATED TO A HEIGHT AS INDICATED ON THE ARCHITECTURAL DRAWINGS.

8. ALL EXISTING DEVICES (RECEPTACLES, TEL/DATA OUTLETS, SWITCHES, FIRE ALARM SYSTEM DEVICES, ETC.) WHICH ARE LOCATED ON WALL WHICH WILL BE RE-FINISHED (SEE ARCHITECTURAL DRAWINGS), SHALL BE TEMPORARILY REMOVED AND REINSTALLED TO MATCH NEW SURFACE CONDITIONS. PROVIDE ANY ADDITIONAL CABLING NEEDED TO RELOCATE AS REQUIRED.

9. NO ELECTRICAL CONNECTIONS SHALL BE MADE TO, OR WORK PERFORMED ON, ENERGIZED EQUIPMENT.

10. FINAL CONNECTIONS TO EQUIPMENT SHALL BE MADE ACCORDING TO VENDOR APPROVED SHOP DRAWINGS.

11. VERIFY ELECTRICAL REQUIREMENTS OF ALL EXISTING AND NEW EQUIPMENT TO BE USED. ALL SPECIAL PURPOSE OUTLETS INDICATED ON PLAN SHALL BE VERIFIED WITH EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION, TO ENSURE PROPER WIRING AND COMPATIBILITY WITH ATTACHMENT PLUGS OR JUNCTION BOXES THAT MAY BE FURNISHED AS AN INTEGRAL PART OF THE EQUIPMENT.

12. COORDINATE ALL LOCATIONS AND HEIGHTS OF STUB-UPS AND OUTLETS IN FIELD WITH VENDORS AND/OR FURNITURE MANUFACTURERS' APPROVED SHOP DRAWINGS. ALL RECEPTACLES ARE TO BE ACCESSIBLE.

13. ELECTRICAL CONTRACTOR SHALL VERIFY AVAILABILITY OF EXISTING CIRCUIT BREAKERS AFTER DEMOLITION OF EXISTING CONDITIONS TO MEET NEW REQUIREMENTS, AND REPORT ANY RESULTING DISCREPANCIES TO THE ARCHITECT AND CONSULTING ENGINEER IMMEDIATELY PRIOR TO PROCEEDING WITH WORK.

14. ALL RECEPTACLES SHALL BE ACCESSIBLE BELOW COUNTERS OR BEHIND EQUIPMENT. CONTRACTOR SHALL COORDINATE EXACT LOCATION OF EQUIPMENT RECEPTACLES WITH EQUIPMENT MANUFACTURER'S REQUIREMENTS AND THE LOCAL INSPECTOR.

15. ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECTS FOR ALL EQUIPMENT PER CODE AND SHALL COORDINATE ALL DISCONNECT SWITCH REQUIREMENTS AND LOCATIONS WITH THE ELECTRICAL INSPECTOR. VENDORS APPROVED SHOP DRAWING AND FINAL EQUIPMENT LOCATIONS.

16. ELECTRICAL CONTRACTOR SHALL VERIFY PHASE LOAD BALANCING ON POWER PANELS UPON COMPLETION OF THE ELECTRICAL INSTALLATION. INCLUDE RE-DISTRIBUTION OF CIRCUITS WITHIN PANELS TO BALANCE WITHIN A 10% WINDOW (±5%).

17. ALL CONDUIT AND CABLE "HOMERUNS" SHALL CONSIST OF A SINGLE CIRCUIT PER CONDUIT FOR FEEDERS SERVED BY AN OVERCURRENT PROTECTIVE (OCP) DEVICE IN EXCESS OF 20 AMPERES, SINGLE POLE. WHERE WIRE AND CONDUIT BRANCH CIRCUITS SHARE A CONDUIT HOMERUN, (OCP LESS THAN OR EQUAL TO 20 AMPERES SINGLE POLE) THERE SHALL BE A MAXIMUM OF SIX CIRCUITS COMBINED IN A RACEWAY TO THE PANELBOARD, UNLESS OTHERWISE NOTED. ALL CONDUCTORS SHALL BE DERATED PER NATIONAL ELECTRICAL CODE (LATEST VERSION). COMBINING OF MULTIPLE HOMERUNS (MORE THAN SIX) IN A SINGLE CONDUIT SHALL NOT BE PERMITTED.

18. ALL CONDUIT SHOWN FOR INDOOR WORK SHALL BE EMT (3/4" MINIMUM) WITH SET-SCREW TYPE COUPLINGS UNLESS OTHERWISE NOTED OR PERMITTED BY THE BUILDING RULES AND REGULATIONS.

19. PROVIDE IMC CONDUIT WITH THREADED COUPLINGS WHERE REQUIRED BY CODE.

20. TYPE MC CABLE MAY BE UTILIZED FOR BRANCH LIGHTING AND RECEPTACLE CIRCUITRY, WHERE PERMITTED BY CODE AND PROVIDED THAT:
a. IT IS IN ACCORDANCE WITH THE BUILDING RULES AND REGULATIONS.
b. CONTAINS AN INSULATED GROUND WIRE.
c. CONDUIT IS RUN TO THE FIRST DEVICE DOWN-LINE OF THE PANEL, (I.E. RECEPTACLE, LIGHT FIXTURE, ETC.).
SPLICE BOXES MOUNTED ADJACENT TO THE ELECTRICAL CLOSET SHALL NOT BE PERMITTED TO CONVERT FROM A CONDUIT HOMERUN TO TYPE MC CABLE.

21. INCLUDE ALL LABOR, MATERIALS, AND APPLICATIONS REQUIRED FOR THE FURNISHING, INSTALLING AND TESTING OF ALL WORK SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN, IN A MANNER SATISFACTORY TO THE ARCHITECT.

22. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXISTING CIRCUITRY ORIGIN, DISTRIBUTION AND REVISING EXISTING CIRCUITRY TO COMPLY WITH NEW CIRCUITRY AS INDICATED ON PLANS.

23. ALL WORK AND/OR EQUIPMENT INSTALLED OUTDOORS SHALL BE APPROVED FOR USE IN WET LOCATIONS.

24. ALL WORK AND/OR EQUIPMENT IN MERS SHALL BE SUITABLE FOR DAMP LOCATIONS.

25. WHERE CONDUITS, CABLE TRAY OR OTHER ELECTRICAL EQUIPMENT PENETRATE FIRE OR SMOKE RATED WALLS, PARTITIONS, FLOOR SLABS, ETC., THE SPACE BETWEEN THE SLEEVE OR CUTOUT AND THE ELECTRICAL EQUIPMENT SHALL BE CAULKED WITH A UL LISTED, INTUMESCENT TYPE, APPROVED FIRESTOP SYSTEM. SPACE BETWEEN THE SLEEVE OR CUTOUT AND THE ELECTRICAL EQUIPMENT SHALL BE SIZED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS FOR CONDUIT SIZE AND DAMMING MATERIAL THICKNESS FOR THE TYPE OF RATED CONSTRUCTION FOR WHICH THE SYSTEM IS TO BE USED. THE FIRESTOP SYSTEM SHALL BE AS MANUFACTURED BY 3M FIRE PROTECTION PRODUCTS OR AS APPROVED. SEE ARCHITECTURAL DRAWINGS FOR FIRE RATING OF WALLS AND FLOORS.

26. WHERE WORK IS ONGOING IN ELECTRICAL PANELS THE COVERS ARE NOT TO BE LEFT OFF UNLESS WORK IS CURRENTLY BEING PERFORMED ON THE PANEL. COVERS SHALL BE REPLACED EACH NIGHT AT THE END OF SHIFT.

27. TEMPORARY POWER FROM EXISTING PANELS FOR LIGHTS, DRILLS, WELDING EQUIPMENT, ETC., SHALL BE LABELED ON THE PANEL AND PRE-APPROVED BY BUILDING OWNER/MANAGER 48 HOURS PRIOR TO INSTALLATION.

C. ARCHITECT'S AND/OR ENGINEER'S REVIEW

1. SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO THE START OF ANY WORK. ANY WORK OR EQUIPMENT INSTALLED PRIOR TO REVIEW OF SHOP DRAWINGS AND FOUND TO BE UNACCEPTABLE SHALL BE REMOVED AND MODIFIED AT THE CONTRACTOR'S SOLE EXPENSE INCLUDING ANY RESULTANT SCHEDULING DELAYS EXPERIENCED BY ANY TRADE.

2. THE ARCHITECT AND/OR ENGINEER WILL REVIEW SHOP DRAWINGS AND SAMPLES FOR CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND THE INFORMATION CONTAINED IN THE CONTRACT DOCUMENTS. THE ARCHITECT'S AND/OR ENGINEER'S REVIEW OF SHOP DRAWINGS AND SAMPLES IS ONLY FOR THE CONVENIENCE OF THE OWNER IN FOLLOWING THE WORK AND DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR DEVIATIONS FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE ARCHITECT'S AND/OR ENGINEER'S REVIEW SHALL NOT BE CONSTRUED AS A COMPLETE OR DETAILED CHECK OF THE WORK SUBMITTED. NOR SHALL IT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR ERRORS OF ANY SORT IN THE SHOP DRAWINGS AND SAMPLES, OR FROM THE NECESSITY OF FURNISHING ANY WORK REQUIRED BY THE CONTRACT DOCUMENTS WHICH MAY HAVE BEEN OMITTED FROM SHOP DRAWING SUBMITTALS.

3. THE REVIEW OF A SEPARATE ITEM SHALL NOT INDICATE REVIEW OF THE COMPLETE ASSEMBLY IN WHICH IT FUNCTIONS. NOTHING IN THE ARCHITECT'S AND/OR ENGINEER'S REVIEW OF SHOP DRAWINGS AND SAMPLES SHALL BE CONSIDERED AS AUTHORIZING:
a. A DEPARTURE FROM CONTRACT DOCUMENTS OR SPECIFICATIONS, OR
b. ADDITIONAL COST TO THE OWNER, OR
c. INCREASED TIME FOR COMPLETION OF THE WORK.

4. NO PART OF THE WORK SHALL BE STARTED IN THE SHOP OR IN THE FIELD UNTIL THE ARCHITECT AND/OR ENGINEER HAS REVIEWED THE SHOP DRAWINGS AND SAMPLES FOR THAT PORTION OF THE WORK. THEREAFTER, THE WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND THE INDICATED STATUS OF THE REVIEWED SHOP DRAWING.

5. SAMPLES SHALL BE SUBMITTED FOR REVIEW WHEN REQUESTED BY THE ARCHITECT AND/OR ENGINEER.

6. TWO WEEKS AFTER AWARD OF CONTRACT SUBMIT A SHOP DRAWING LOG FOR REVIEW WITH SUBMITTAL DATES AND SUBMITTAL TYPE.

7. PROVIDE OPERATIONS AND MAINTENANCE MANUALS FOR ALL EQUIPMENT AND MATERIALS.

D. RECORD DRAWINGS

1. PREPARE AND FURNISH TO OWNER "AS BUILT" PLANS FOR ALL WORK INSTALLED. PROVIDE CAD DRAWINGS AND CAD FILES ON A COMPACT DISC COMPLETED IN THE LATEST VERSION OF AUTOCAD. ALL DRAWINGS SHALL BE IN A STYLE COMMENSURATE WITH THE ENGINEERING DESIGN. THE ENGINEERING DESIGN CAD DRAWINGS OR BACKGROUNDS WILL BE FURNISHED FOR USE TO THIS CONTRACTOR FOR THE PURPOSE OF THIS SUBMISSION (SUBMIT A CAD INDEMNIFICATION AGREEMENT).

2. DURING CONSTRUCTION, KEEP AN ACCURATE RECORD OF ALL DEVIATIONS BETWEEN THE WORK AS SHOWN ON DRAWINGS AND THAT WHICH IS ACTUALLY INSTALLED. THIS RECORD SET OF PRINTS SHALL BE KEPT AT JOB SITE FOR INSPECTION.

3. UPON COMPLETION OF THE INSTALLATION, SUBMIT ONE SET OF BLACK AND WHITE PRINTS OF THESE "AS-BUILT" RECORD DRAWINGS TO THE CONSULTING ENGINEER FOR REVIEW. AFTER REVIEW BY THE CONSULTING ENGINEER, MAKE NECESSARY CHANGES TO THESE PRINTS AND THEN DELIVER THEM TO THE OWNER FOR RECORD. FINAL PAYMENT WILL BE WITHHELD UNTIL COMPLETION OF "AS-BUILT" DRAWINGS.

4. AS-BUILT DRAWINGS SHALL CONTAIN EXACT ROUTING AND ELEVATIONS OF ALL CONDUIT BANKS, ACTUAL PANELBOARD CIRCUIT BREAKER POSITIONS USED FOR EACH CIRCUIT, AND EXACT LOCATION OF ALL EQUIPMENT. ALL DIMENSIONS SHALL BE REFERENCED TO BUILDING STRUCTURE CENTERLINES.

E. EQUIPMENT SPECIFICATIONS

1. ALL EQUIPMENT AND MATERIALS SHALL BE NEW, UL LISTED AND SHALL CONFORM TO ANY ADDITIONAL LABELING, TESTING AND CONSTRUCTION REQUIREMENTS ESTABLISHED BY THE GOVERNING AUTHORITIES. SAME SHALL BE GUARANTEED FOR 1 YEAR SUBSEQUENT TO FINAL ACCEPTANCE.

2. ALL EQUIPMENT (ELECTRICAL AND MECHANICAL) SHALL BE SPECIFIED TO HAVE VOLTAGE RATINGS COMPATIBLE WITH THE PROVISIONS OF ANSI C84.

3. ALL EXISTING EQUIPMENT TO BE RELOCATED, OR TO BE INSTALLED FROM STORAGE SHALL BE CLEANED.

4. ALL LOW TENSION CONDUIT FOR DATA, TELEPHONE, SECURITY, AV, TELEVISION, ETC., SHALL BE 1" MINIMUM EMT OR ALUMINUM U.O.N. TERMINATE WITH BUSHED OPENING IN HUNG CEILING OR UNDER RAISED FLOOR. EMPTY FLEXIBLE CONDUIT SHALL NOT BE PERMITTED FOR LOW TENSION CABLING UNLESS WRITTEN APPROVAL IS OBTAINED FROM THE ARCHITECT AND ENGINEER. ALL LOW TENSION EMPTY CONDUIT SHALL BE PROVIDED WITH TRU-MEASURE TYPE DRAG LINES FOR FUTURE CABLE INSTALLATION.

5. ALL WALL MOUNTED TELEPHONE AND COMMUNICATIONS OUTLETS SHALL HAVE THE EMPTY CONDUIT STUBBED AND BUSHED INTO AN ACCESSIBLE AREA IN THE HUNG CEILING OR RAISED FLOOR. (NOTE: ACCESSIBLE AREA MAY BE OUTSIDE THE ROOM/AREA IF AN INACCESSIBLE CEILING IS UTILIZED.)

6. INTERMEDIATE METAL CONDUIT SHALL BE USED WHERE SUBJECTED TO ANY WATER OR MOISTURE CONDITIONS, OR WHERE BURIED IN SLAB.

7. PROVIDE CONDUIT EXPANSION FITTINGS TOGETHER WITH BONDING JUMPER AND SUITABLE SLEEVES WHERE REQUIRED. CONDUIT EXPANSION FITTING SHALL BE INSTALLED IN EACH CONDUIT RUN WHEREVER IT CROSSES AN EXPANSION JOINT IN THE STRUCTURE. THE EXPANSION FITTING SHALL BE INSTALLED ON ONE SIDE OF THE JOINT WITH ITS SLIDING SLEEVE END FLUSH WITH THE JOINT AND WITH A LENGTH OF BONDING JUMPER IN THE EXPANSION JOINT EQUAL TO AT LEAST THREE TIMES THE NORMAL WIDTH OF THE JOINT.

8. ALL 20A, SINGLE POLE, 120 VOLT OR 208 VOLT BRANCH CIRCUIT RUNS IN EXCESS OF 100 FEET FROM THE PANEL TO THE DEVICE SHALL BE PROVIDED WITH #10 MINIMUM AWG WIRE FOR ITS ENTIRE LENGTH.

9. JUNCTION OR PULL BOXES SHALL BE FURNISHED AND INSTALLED WHERE INDICATED ON PLANS AND WHEREVER ELSE SUCH A BOX MAY BE NECESSARY TO FACILITATE INSTALLATION OR CONFORM TO CODE REQUIREMENTS. COORDINATE LOCATIONS OF SAME WITH ARCHITECT FOR ACCESSIBILITY AND AESTHETIC CONSIDERATIONS. GENERALLY, JUNCTION BOXES AND PULL BOXES SHALL BE INSTALLED EVERY 100 FEET IN CONDUIT HORIZONTAL RUNS AND SHALL NOT BE EXPOSED IN FINISHED SPACES. ALL CABLES WITHIN PULL BOXES SHALL BE PROPERLY TAGGED FOR IDENTIFICATION. LABEL ALL CONDUITS WITH FEEDER DESIGNATION, AT ENTRY AND EXIT TO THE BOX.

10. PROVIDE A #10 AWG NEUTRAL FOR ALL 20A CIRCUITS WHERE EITHER TWO OR THREE PHASES SHARE A SINGLE CONDUCTOR NEUTRAL.

11. PROVIDE WIRE TROUGHS WHERE A RACEWAY IS REQUIRED TO ACCESS THE FLOOR SYSTEM.

12. INSULATING BUSHINGS OR INSULATING THROATS SHALL BE INSTALLED ON ALL FITTINGS.

13. COORDINATE WITH PUBLIC ADDRESS SYSTEM VENDOR FOR EMERGENCY CONTROL PANEL REQUIREMENTS.

14. ANY VFDS SHALL HAVE LINE AND LOAD SIDE POWER FILTERING.

F. LIGHTING FIXTURES

1. ALL FLUORESCENT LIGHT FIXTURES SHALL BE PROVIDED WITH HIGH POWER FACTOR, HIGH FREQUENCY ELECTRONIC BALLASTS. BALLASTS SHALL BE UL LISTED, CLASS P, SOUND RATED A.

2. ALL LIGHTING FIXTURES SHALL BE CONNECTED USING MAXIMUM 6 FOOT LENGTH OF FLEXIBLE METAL CONDUIT FROM ACCESSIBLE CEILING OUTLET BOX USING LOCK NUT TYPE FITTINGS WITH GROUNDINGS AS REQUIRED BY GOVERNING CODES. PROVIDE #12 GROUND WIRE.

3. ALL EMERGENCY LIGHTING FIXTURES SHALL CONTAIN AN INTEGRAL EMERGENCY BATTERY UNIT, CONSISTING OF NICKEL-CADMIUM BATTERY AND AN AUTOMATIC SOLID STATE CHARGER WITH VISIBLE CHARGING LED. UNIT SHALL ILLUMINATE (1) ONE LAMP PER FIXTURE AT A NORMAL LAMP LUMEN OUTPUT OF 30 PERCENT MINIMUM RATED LUMEN OUTPUT FOR MINIMUM 90 MINUTES. EMERGENCY BATTERY UNIT SHALL BE AS MANUFACTURED BY LIGHT ALARMS ELECTRONICS CORP., EMERG-LITE OR DUAL-LITE.

4. ALL EXIT SIGNS SHALL BE PROVIDED WITH AN EMERGENCY BATTERY BALLAST WITH 90 MINUTES (MIN.) OF BATTERY LIFE. BATTERY BALLAST SHALL BE SPECIFIC TO EXIT SIGN MANUFACTURER.

5. WHERE LIGHT FIXTURES ARE DENOTED AS EMERGENCY LIGHTS TO BE SWITCHED, A HOT LEG SHALL BE BROUGHT TO THE EMERGENCY BATTERY BALLAST TO SIGNAL AND CHARGE THE BATTERY BALLAST. WHETHER THE SWITCH LEG IS "ON" OR "OFF," THEREFORE, THE FIXTURE SHALL BE SWITCHABLE. EMERGENCY BATTERY BALLAST SHALL BE BODINE TYPE B50 FOR ALL 2x4' FLUORESCENT FIXTURES AND BODINE TYPE B94 FOR ALL COMPACT FLUORESCENT DOWNLIGHTS.

6. BRANCH CIRCUITS SHALL IN ALL CASES CONTAIN THE NECESSARY NUMBER OF WIRES TO AFFORD THE SWITCH CONTROL. INDICATED. ALL LIGHTING CIRCUITS WHICH ARE CONTROLLED BY DIMMERS SHALL NOT SHARE A NEUTRAL WITH ANOTHER CIRCUIT, BUT SHALL HAVE A SEPARATE NEUTRAL CONDUCTOR TO THE PANEL. WHETHER OR NOT INDICATED ON PLAN, EACH DIMMER SHALL BE SEPARATELY GANGED (FULLY ENCLOSED).

7. PROVIDE NEW LAMPS FOR ALL EXISTING FIXTURES WHICH HAVE BEEN RELOCATED.

8. ALL LIGHT FIXTURES SHALL BE SPECIFIED ON THE ELECTRICAL AND/OR ARCHITECTURAL DOCUMENTS. IT SHALL BE THIS CONTRACTORS RESPONSIBILITY TO OBTAIN THE EXACT FIXTURE SPECIFICATIONS FOR THE PROJECT PRIOR TO THE SUBMISSION OF BID. REGARDLESS OF WHERE THE FIXTURE, LAMPS AND BALLASTS ARE SPECIFIED, THIS CONTRACTOR SHALL INCLUDE HIGH POWER FACTOR/ENERGY EFFICIENT BALLASTS AND HIGH EFFICIENCY LAMPS WHICH MEET OR EXCEED THE REQUIREMENTS OF THE NEW YORK STATE CONSERVATION CONSTRUCTION CODE AND ANY CURRENT REBATE REQUIREMENTS FOR CON EDISON, NYSEBDA, ETC. FOR ALL FIXTURE TYPES.

9. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETING AND FILING ALL LIGHTING REBATE FORMS, ON BEHALF OF THE CLIENT, AND IN COORDINATION WITH THE ENGINEER AND ARCHITECT, REQUIRED FOR A REBATE WITH THE GOVERNING AUTHORITY AND/OR UTILITY AS REQUIRED PRIOR TO THE PURCHASE OF FIXTURES IN ORDER TO ACHIEVE THE MAXIMUM REBATE AMOUNT. THIS CONTRACTOR SHALL ALSO INCLUDE FILING FOR MOTION/OCCUPANCY SENSORS, TIMECLOCKS, ETC. AS PART OF THE REBATE PROCESS WHERE APPLICABLE.

10. ALL FIXTURES DENOTED AS NIGHTLIGHTS SHALL BE FED WITH AN UNSWITCHED HOT LEG. ALL LIGHTING CIRCUITS SHOWN TO BE ROUTED VIA A LIGHTING CONTACTOR OR TIMECLOCK AND RELAY COMBINATION SHALL HAVE THE HOT LEG TAPPED AHEAD OF THE RELAY CONTACT IN ORDER TO FEED NIGHTLIGHTS. EMERGENCY BATTERY UNITS AND OCCUPANCY SENSORS SO THAT THE RELAY CONTACT DOES NOT AFFECT THE CIRCUIT LEG TO THESE DEVICES.

G. SLEEVES

1. PROVIDE SLEEVES FOR ALL CONDUIT PASSING THROUGH FLOORS, WALLS, PARTITIONS AND ROOFS. SLEEVED ASSEMBLIES SHALL BE APPROVED FOR INTENDED USE FOR ALL WATERPROOF INSTALLATIONS (ROOF, FOUNDATION WALL, ETC.). PROVIDE OZ GEDNEY ASSEMBLIES, OR AS REVIEWED.

2. PROVIDE SLEEVES WITH AN I.D. AT LEAST 1/2 INCH GREATER THAN OUTSIDE OF CONDUIT SERVED.

3. WHERE PLENUM CABLING PENETRATES FIRE OR SMOKE RATED WALLS, PARTITIONS, FLOOR SLAB, ETC., PROVIDE SLEEVES (AS DESCRIBED HEREINBEFORE) THROUGH RATED CONSTRUCTION. ALL CABLING SHALL BE RUN THROUGH THESE SLEEVES. SLEEVES SHALL BE LOCATED AS REQUIRED AND SHALL BE FILLED WITH A UL LISTED, INTUMESCENT TYPE, APPROVED FIRESTOP SYSTEM. QUANTITY OF CABLES, CONFIGURATIONS OF CABLES, ETC., SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS FOR THE TYPE OF RATED CONSTRUCTION FOR WHICH THE SYSTEM IS TO BE USED. THE FIRESTOP SYSTEMS SHALL BE AS MANUFACTURED BY 3M FIRE PROTECTION PRODUCTS, SPEC SEAL, FIRE STOP PRODUCTS OR AS APPROVED. SEE ARCHITECTURAL DRAWINGS FOR FIRE RATINGS OF WALLS AND FLOORS.

H. PANELBOARDS

1. ALL PANELBOARDS SHALL BE OF THE ENCLOSED TYPE, FLUSH OR SURFACE MOUNTED, AS REQUIRED, IN CODE GAUGE STEEL CABINETS, WITH STEEL TRIM, CONCEALED HINGES, DOORS AND FLUSH TYPE LOCKS, ALL KEYS ALIKE. PROVIDE DUAL CONCEALED HINGED DOORS (DOOR-IN-DOOR CONSTRUCTION) WITH TWO KEYS LATCHES, AND WITHOUT BOLTS OR SCREENS ON THE NON-HINGED SIDE OF THE DOOR. ALL EXISTING PANELS SHALL BE RETROFITTED WITH DOOR-IN-DOOR COVERS. PROVIDE FLUSH DOORS WHERE INDICATED ON DOCUMENTS (SEE ARCHITECTURAL DRAWINGS.)

2. ALL BUSES, INCLUDING NEUTRAL, SHALL BE ELECTRICAL GRADE HARD-DRAWN COPPER AND SIZED IN CONFORMANCE WITH NEMA STANDARDS. BUSES SHALL BE ARRANGED FOR SEQUENCE PHASING AND LOADS SHALL BE BALANCED AS EQUALLY AS POSSIBLE AMONGST THE THREE PHASES.

3. PANELBOARDS SHALL BE EQUIPPED WITH QUICK-MAKE, QUICK-BREAK FUSED SWITCHES OR BOLT-ON MOLDED CASE CIRCUIT BREAKERS, OF VOLTAGE REQUIRED, AND OF SIZE AND NUMBER OF POLES INDICATED ON THE SCHEDULES.

4. A TYPE WRITTEN DIRECTORY OF 5 INCHES x 6 INCHES WITH METAL FRAME AND LEXAN FACE SHALL BE PROVIDED ON THE INSIDE OF THE DOOR OF EACH CABINET, INDICATING THE LOAD SERVED BY EACH CIRCUIT. UTILIZE ARCHITECTURAL DRAWINGS TO INDICATE ROOM NAMES AND NUMBERS OF ALL EQUIPMENT SERVED. UPDATE PANEL DIRECTORIES OF ALL EXISTING PANELS.

5. POWER, LIGHTING AND UTILITY PANELS FOR 120/208 VOLT SHALL BE BOLT-ON CIRCUIT BREAKER TYPE UNLESS OTHERWISE NOTED. SINGLE POLE BRANCHES SHALL BE BOLT-ON TYPE OF AT LEAST 10,000 AMPERES RMS SYMMETRICAL, INTERRUPTING CAPACITY (OR AS INDICATED ON THE DRAWINGS). MULTIPLE POLE BREAKERS SHALL BE COMMON TRIP, OF THE CAPACITY AND NUMBER OF POLES AS INDICATED IN SCHEDULES. PANELBOARDS SHALL BE EQUIPPED WITH 200% SOLID NEUTRAL BAR AND CONTAIN THE NUMBER OF POLES OVERCURRENT DEVICES AND BUSED SPACES AS SPECIFIED IN SCHEDULE. PANELBOARDS SHALL INCLUDE A SEPARATE GROUND BUS ISOLATED FROM THE CASING. FUSIBLE TYPE PANELS SHALL CONFORM TO REQUIREMENTS OF ABOVE PARAGRAPH.

6. PROVIDE ISOLATED GROUND BUSES ON STAND-OFF ISOLATORS WHERE INDICATED ON SCHEDULES.

7. PROVIDE NEW CIRCUIT BREAKERS IN BOTH NEW AND EXISTING PANELS AS REQUIRED TO MEET THE SCHEDULES OR CIRCUIT DESIGN INTENT.

8. GUTTER SPACE SHALL BE INCREASED WHEN CONTAINING FEEDER TAPS.

9. PROVIDE WIRE TROUGHS WHERE ACCESS TO THE FLOOR SYSTEM IS REQUIRED.

10. WHERE SPACE LIMITATIONS REQUIRE REDUCED PANEL WIDTH, PROVIDE VERTICAL (SINGLE ROW) BREAKER TYPE PANELS AS PART OF THE INITIAL SCOPE PRICE.

11. ALL PANEL BUS BARS SHALL CONSIST OF A MINIMUM 1/8 INCH DEPTH COOPER BUS.

12. PROVIDE GFI TYPE BRANCH CIRCUIT BREAKERS FOR ALL CIRCUITS SERVING HEAT TRACING CIRCUITS, H-WATT CIRCUITS, FREEZE PROTECTION CIRCUITS, WINDOW WASHING CIRCUITS, OUTDOOR CIRCUITS, ETC. AND AS REQUIRED BY CODE.

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Key Plan

Description	Date
50% Design Development	02/24/20
100% Design Development	05/29/

J. FUSES

1. ALL FUSES SHALL BE OF THE SAME MANUFACTURER, BUSSMANN, OR AS APPROVED, AND SHALL BE INSTALLED, AS REQUIRED, IN ALL CUTOUTS, PANELS AND SAFETY SWITCHES.
2. UNLESS OTHERWISE NOTED, FUSES SHALL BE BUSSMAN TYPE LPN, LPS OR KRP-C.

K. OCCUPANCY SENSORS

1. OCCUPANCY SENSORS SHALL BE UTILIZED TO AUTOMATICALLY TURN OFF LIGHT FIXTURES WHEN THE AREA SENSED IS NOT OCCUPIED. OCCUPANCY SENSORS SHALL HAVE A TIME DELAY BEFORE TURNING OFF, WHICH SHALL BE CONTINUOUSLY ADJUSTABLE FROM 30 SECONDS TO 12 MINUTES. OCCUPANCY SENSORS SHALL HAVE A SENSITIVITY ADJUSTMENT TO MODIFY THE FIELD OF VIEW.

2. WALL MOUNTED OCCUPANCY SENSORS SHALL OPERATE AS FOLLOWS: RED LED WILL INDICATE WHEN UNIT IS BEING TRIGGERED PLUS IT WILL GLOW WHEN OFF TO FACILITATE LOCATION IN AN UNIT ROOM. WALL MOUNTED AREA SENSORS SHALL UTILIZE PASSIVE INFRARED OPERATION. THE SENSOR SHALL EMIT A "BEEP" WARNING TONE BEFORE SHUTTING OFF. SENSOR OPERATION SHALL BE AS FOLLOWS: TAP TOP OF SWITCH TO TURN ON; AUTOMATIC TURN OFF; TAP BOTTOM OF SWITCH TO TURN OFF. SENSOR SHALL BE ABLE TO BE MOUNTED IN A SINGLE GANG WALL BOX AND BE GANGABLE WITH OTHER DESIGNER STYLE ELECTRICAL DEVICES AND FACEPLATES. SENSOR SHALL BE PROVIDED WITH A DESIGNER STYLE SCREWLESS FACEPLATE, COLOR AS SELECTED BY THE ARCHITECT.

3. CEILING MOUNTED AREA SENSOR SHALL UTILIZE PASSIVE INFRARED OPERATION. WHEN THE SENSOR DETECTS THE PRESENCE OF AN OCCUPANT, THE LIGHTS WILL AUTOMATICALLY TURN ON. IF NO OCCUPANT MOTION OCCURS WITHIN THE ADJUSTABLE TIME DELAY PERIOD, THE LIGHTS SHALL AUTOMATICALLY BE TURNED OFF. THE SENSOR SHALL HAVE A LED INDICATOR TO PROVIDE FEEDBACK TO THE POWER PACK WHEN DETECTING MOVEMENT AND SHALL HAVE A SENSITIVITY AND TIMING ADJUSTMENT. ALL COMPONENTS TO BE CONTAINED WITHIN A 1 INCH HIGH BY 6 INCH LONG WHITE PLASTIC HOUSING, USING FOUR (4) HEAD SENSORS AT FIXED ANGLES. PROVIDE THREE (3) FREQUENCY DEVICES FOR ALTERNATE PATTERN INSTALLATION. PROVIDE ACCOMPANYING SWITCHPACK WITH PROPER HEAD QUANTITY AS SPECIFIED BY MANUFACTURER. UNIT SHALL NOT DETECT MOTION THROUGH GLASS AND SHALL BE MOUNTED A MINIMUM OF SIX (6) FEET FROM STRONG AIR TURBULENT DEVICES.

L. LIGHTING CONTACTOR

1. THE REMOTE CONTROL LIGHTING CONTACTOR SHALL BE ELECTRICALLY OPERATED BY A DUAL-ACTING, SINGLE-SOLENOID MECHANISM THAT IS INHERENTLY INTERLOCKED AND MECHANICALLY HELD IN BOTH THE OPEN AND CLOSED POSITIONS. THE MAIN CONTACTS SHALL BE POWER DRIVEN IN BOTH DIRECTIONS. POSITIVE LOCKING AND CONTACT POSITIONS SHALL NOT BE DEPENDENT ON GRAVITY, HOOKS, LATCHES OR SEMI-PERMANENT MAGNETS.

2. THE REMOTE CONTROL LIGHTING CONTACTOR SHALL BE CAPABLE OF OPERATING IN ANY POSITION. PROVISIONS SHALL BE INCORPORATED FOR MANUAL OPERATION DURING INSPECTION AND MAINTENANCE.

3. THE REMOTE CONTROL LIGHTING CONTACTOR SHALL BE UNDERWRITERS' LABORATORIES LISTED UNDER UL 508. MAIN CONTACTS SHALL BE DOUBLE BREAK, CONTINUOUS DUTY RATED 20 AMPS TO 600 VOLTS AC, AND BE MARKED FOR BALLAST LIGHTING, TUNGSTEN AND GENERAL PURPOSE LOADS. LIGHTING CONTACTORS REQUIRING DERATING WHEN USED IN AN ENCLOSURE OR WITH TUNGSTEN LAMP LOADS SHALL NOT BE ACCEPTABLE.

4. THE REMOTE CONTROL LIGHTING CONTACTOR SHALL BE PROVIDED WITH CLAMP-TYPE, SELF-RIISING TERMINAL PLATES FOR SOLDERLESS CONNECTION OF LINE, LOAD AND CONTROL CONDUCTORS. TERMINALS SHALL ACCEPT A WIRE RANGE OF #18 TO #10 AWG CU.

5. THE NUMBER OF POLES, UP TO A MAXIMUM OF 12, ON A SINGLE REMOTE CONTROL LIGHTING CONTACTOR, SHALL BE PROVIDED AS INDICATED ON PLANS.

6. THE REMOTE CONTROL LIGHTING CONTACTOR SHALL BE UL LISTED FOR THE FOLLOWING SHORT-CIRCUIT WITHSTAND CURRENT RATINGS WHEN COORDINATED WITH A UL-LISTED MOLDED CASE CIRCUIT BREAKER RATED 30 AMPERES: 10000 AMPS RMS SYMMETRICAL 600 VOLTS, 60HZ.

7. THE OPERATING COIL AND MAIN CONTACTS SHALL BE REPLACEABLE FROM THE FRONT WHITOUT MAJOR DISASSEMBLY AND VISUAL INDICATION SHALL BE PROVIDED FOR EACH MAIN CONTACT.

8. PROVISIONS SHALL BE INCLUDED TO PERMIT REMOTE PILOT LAMP-TYPE VISUAL INDICATIONS WITHOUT THE NECESSITY FOR AUXILIARY CONTACTS OR ADDITIONAL WIRING.

9. EACH REMOTE CONTROL LIGHTING CONTACTOR SHALL BE FURNISHED WITH AN OWNER'S MANUAL PROVIDING INSTALLATION AND OPERATING INSTRUCTIONS.

10. THE REMOTE CONTROL LIGHTING CONTACTOR SHALL BE AN ASCO 917 OR APPROVED EQUAL IN NEMA 1 ENCLOSURE.

M. TIME CLOCK

1. TIME CLOCK SHALL BE DIGITAL TYPE, WITH ASTRONOMIC AND PULSE SWITCHING CAPABILITY, LCD DISPLAY, AM/PM FORMAT, MANUAL OVERRIDE, SEPARATE SCHEDULING FOR EACH DAY OF THE WEEK, DIFFERENT DAILY SCHEDULES PROGRAMMABLE WITHIN EACH SEASON.

2. ENCLOSURE SHALL BE NEMA 1 TYPE.

3. TERMINALS SHALL BE CAPABLE OF RECEIVING #6AWG WIRE.

4. TIME CLOCK SHALL BE TORK MODEL DLC400BP OR APPROVED EQUAL.

N. GENERAL

1. OUTLET BOXES SHALL BE CODE GAUGE GALVANIZED STAMPED STEEL, 4 INCH SQUARE BY 1-1/2 INCHES DEEP FOR POWER AND 4 INCHES SQUARE BY 2-1/2 INCHES DEEP FOR COMMUNICATION, FIRMLY ANCHORED IN PLACE. BOX VOLUME SHALL BE AS REQUIRED BY GOVERNING CODES WITH BLANK COVERS PROVIDED FOR ALL BOXES USED FOR JUNCTION PURPOSES. GEM BOXES SHALL ONLY BE USED WHERE DIMENSIONAL RESTRAINTS EXIST AND WHERE THE CONTRACTOR HAS OBTAINED PERMISSION FROM THE ENGINEER. MULTI-GANG BOXES SHALL BE PROVIDED WITH EXTENSION COLLARS MOUNTED WITHIN 1/8 INCH OF OUTER SURFACE. WHERE OUTLET BOXES ARE SHOWN FOR FLUSH MOUNTED DEVICES, A SINGLE GANG PLASTER RING SHALL BE PROVIDED, AND MOUNTED WITHIN 1/8 INCH OF OUTER SURFACE.

2. DISCONNECT SWITCHES SHALL BE QMOB FUSIBLE OR NONFUSIBLE WITH CURRENT AND VOLTAGE RATING AS INDICATED ON PLANS. SWITCHES SHALL BE HORSEPOWER RATED, ENCLOSED TYPE, SUITABLE FOR PADLOCKING IN OPEN POSITION.

3. HORSEPOWER RATED THERMAL SWITCHES (BRYANT OR AS APPROVED) SHALL BE USED FOR ALL MOTOR CIRCUITS. ELECTRICAL CONTRACTOR SHALL INSTALL WHERE APPLICABLE TOGGLE SWITCHES FOR USE AS DISCONNECT. THESE SWITCHES SHALL BE "T" RATED FOR RESISTANCE LOADS AND "M" RATED FOR MOTOR LOADS.

4. STANDARD DUPLEX CONVENIENCE RECEPTACLES SHALL BE SPECIFICATION GRADE NEMA 5-15P, 5-20R, 2 POLE, 3 WIRE, GROUNDED, 15 OR 20 AMPERE RATED FOR DEVICES SHOWN ON A 15 OR 20 AMPERE CIRCUIT (RESPECTIVELY). PROVIDE DEVICES RATED TO THE EQUIVALENT CIRCUIT BREAKER SIZE UNLESS OTHERWISE NOTED. GROUND FAULT TYPE SHALL BE USED WHERE REQUIRED BY GOVERNING CODES INCLUDING ALL DEVICES SHOWN TO BE WITHIN SIX FEET OF A SINK/WATER.

5. SWITCHES SHALL BE FLUSH, SPECIFICATION GRADE, QUIET TUMBLER TYPE, GROUNDED, BEHIND COMMON PLATE WITH BARRIERED BACK BOX WHERE REQUIRED BY CODE FOR MULTIPLE CIRCUITS GREATER THAN 250 VOLTS. SINGLE POLE SWITCHES SHALL BE 20 AMPERES, 277 VOLT.

6. DEVICE TYPES, MANUFACTURERS AND COLORS SHALL BE SPECIFIED BY THE ARCHITECT. IF NO SPECIFICATION HAS BEEN PROVIDED, THIS CONTRACTOR SHALL OBTAIN ALL INFORMATION REGARDING THE ABOVE FROM THE ARCHITECT PRIOR TO THE SUBMISSION OF BID, OR SHALL INCLUDE THE ABILITY TO FURNISH ANY MANUFACTURER SELECTED BY THE ARCHITECT DURING THE SHOP DRAWING SUBMISSION PHASE.

7. DEVICE PLATES SHALL BE AS INDICATED ON THE ARCHITECTURAL DRAWINGS. COORDINATE EXACT COLOR WITH ARCHITECT.

8. ALL CABLE SHALL BE COPPER WITH THWN OR THHN INSULATION FOR HORIZONTAL APPLICATIONS AND XHHW FOR VERTICAL APPLICATIONS (I.E. WHEN PASSING THROUGH A CABLE SUPPORT BOX). EMPLOYED AT THE 75°C CODE RATED AMPACITY. NO SMALLER THAN No. 12 AWG SHALL BE USED UNLESS SPECIFICALLY NOTED ON PLANS. COLOR CODING SHALL CONFORM TO CODE REQUIREMENTS. DERATE ALL CABLES PER LATEST VERSION OF THE NATIONAL ELECTRICAL CODE.

9. ALL CONDUCTORS #10 AND SMALLER SHALL BE SOLID CU CONDUCTORS. ALL CONDUCTORS #8 AND LARGER SHALL BE STRANDED COPPER.

10. ALL CABLING FURNISHED FOR INSTALLATION EXPOSED (NOT IN AN ENCLOSED RACEWAY) IN AN AIR PLENUM CEILING OR FLOOR SHALL BE APPROVED FOR USE BY GOVERNING AUTHORITIES, AND SHALL CONFORM TO UL 910 WITH A MINIMUM OF 125 DEGREES CELSIUS RATED JACKET.

11. ALL SUPPLIED LUGS FOR EQUIPMENT REQUIRING HARD-WIRED CONNECTIONS, ETC. SHALL BE DOUBLE INDENT, 2 BOLT HOLE, LONG BARREL AND COMPRESSION TYPE. PROVIDE DOUBLE INDENT "HEXAGONAL" COMPRESSION DIES AND TOOL (T & B OR BURNDY OR AS REVIEWED). MECHANICAL LUGS, SINGLE INDENT COMPRESSION TOOLS AND UNIVERSAL DIES SHALL NOT BE PERMITTED. ALL COMPRESSION TOOLS AND DIES SHALL BE MANUFACTURED BY THE LUG VENDOR.

12. ALL SUPPLIED IN-LINE SPLICE CONNECTORS, "T" CONNECTORS, ETC., SHALL BE DOUBLE INDENT (PER CONDUCTOR), LONG BARREL AND COMPRESSION TYPE. PROVIDE DOUBLE INDENT "HEXAGONAL" COMPRESSION DIES AND TOOL (T & B, BURNDY OR AS REVIEWED). MECHANICAL CONNECTORS, SINGLE INDENT COMPRESSION TOOLS AND UNIVERSAL DIES SHALL NOT BE PERMITTED. ALL COMPRESSION TOOLS AND DIES SHALL BE MANUFACTURED BY THE CONNECTOR VENDOR.

13. ALL NEW AND RELOCATED ELECTRIFIED FURNITURE SYSTEM COMPONENTS SHALL BE DISCONNECTED, RECEIVED, STORED, INSTALLED AND WIRED BY THIS CONTRACTOR IN ORDER TO CONFORM WITH THE DESIGN AS INDICATED ON THESE DRAWINGS AND THE ARCHITECTURAL DRAWINGS. ANY MODIFICATIONS TO FURNITURE SYSTEM NECESSARY TO COMPLY WITH LOCAL CODES AND INSTALLATION STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO FIELD MODIFICATION AND ELECTRIFICATION.

14. ALL UPS SYSTEM RECEPTACLES OR RECEPTACLES DENOTED AS BEING ISOLATED GROUND TYPE SHALL BE PROVIDED WITH A GREEN ISOLATED GROUND WIRE. THIS CONTRACTOR SHALL PROVIDE A COMPLETE ISOLATED GROUND WIRE SYSTEM FROM THE LAST RECEPTACLE TO THE TRANSFORMER X/O POINT (WHERE THE SERVICE GROUND IS ESTABLISHED). THIS SHALL INCLUDE THE PROVISION OF ISOLATED GROUND WIRES AND BUS BARS IN NEW AND EXISTING DISTRIBUTION ALONG THE ENTIRE PATH AS STATED ABOVE, WHETHER OR NOT SHOWN ON THE PLANS. ALL ISOLATED GROUND CIRCUITS SHALL HAVE DEDICATED NEUTRAL AND GROUND WIRES. I.G. WIRES SHALL BE RUN WITH PHASE AND NEUTRAL CONDUCTORS. REPLACE EXISTING FEEDERS AS REQUIRED.

15. PROVIDE LOCAL DISCONNECTS FOR ALL MOTORS, HARD-WIRED PANTRY/KITCHEN EQUIPMENT AND HOT WATER HEATERS, WHETHER OR NOT SHOWN ON PLAN. DISCONNECTS SHALL BE SIZED PER THE OVERCURRENT PROTECTION AND LOCATED PER THE ENGINEER AND ARCHITECT.

16. PROVIDE A 120 VOLT DEDICATED CIRCUIT FOR EACH CONDENSATE PUMP FOR ALL AC UNITS. COORDINATE WITH THE ENGINEER, THE PANEL AND BREAKER POSITION, PRIOR TO INSTALLATION.

17. ALL EQUIPMENT MATERIALS SHALL BE NEW, UL LISTED AND SHALL CONFORM TO ANY ADDITIONAL LABELING, TESTING AND CONSTRUCTION REQUIREMENTS ESTABLISHED BY THE GOVERNING AUTHORITIES. SAME SHALL BE GUARANTEED FOR 1 YEAR SUBSEQUENT TO FINAL ACCEPTANCE.

18. ALL EQUIPMENT (ELECTRICAL AND MECHANICAL) SHALL BE SPECIFIED TO HAVE VOLTAGE RATINGS COMPATIBLE WITH THE PROVISIONS OF ANSI C84.

19. ALL WORK SHALL BE IN CONDUIT.

20. DISCONNECTS FOR INCOMING SERVICE SHALL BE SERVICE RATED.

O. UNIT PRICES

1. AT THE SUBMISSION OF BID, PROVIDE A COMPREHENSIVE UNIT PRICE LIST TO FURNISH AND INSTALL CABLE, CONDUIT, PANELS, TRANSFORMERS, DISCONNECTS, CIRCUIT BREAKERS, RECEPTACLES, FIXTURES, SWITCHES, ETC. THE LIST SHALL CONSIST, AS A MINIMUM, OF ALL TYPES AND SIZES OF EQUIPMENT AS INCLUDED IN THE BASE PROJECT. ONLY THOSE BIDS CONTAINING A UNIT PRICE LIST SHALL BE CONSIDERED UNLESS WRITTEN PERMISSION HAS BEEN GRANTED ON BEHALF OF THE OWNER, ARCHITECT, ENGINEER AND/OR CONSTRUCTION MANAGER (OR GENERAL CONTRACTOR).

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Key Plan

Description	Date
50% Design Development	02/24/20
100% Design Development	05/29/20
50% Construction Documents	11/06/20

Project

Storm King Art Center Pond Pavilion

Seal

NOT FOR CONSTRUCTION

Drawing Title
General Notes

Date	11/06/20
Scale	12" = 1'-0"
Drawing Number	E-P-003
Sheet Size	ARCH D

GENERAL NOTES

- A. FOR ALL SYSTEMS, PROVIDE ALLOWANCES FOR ALL COMPONENTS AND ACCESSORIES REQUIRED FOR A COMPLETE AND OPERATING SYSTEM.
- B. U.O.N. 20A-1P DUPLEX RECEPTACLES SHALL BE CIRCUITED TO NO MORE THAN (6) DUPLEX RECEPTACLES PER CIRCUIT.
- C. RESTROOM GFCI - MAX. (4) DUPLEX GFCI RECEPTACLES PER CIRCUIT.
- D. AUTOMATIC FAUCET, TOILET AND DRINKING FOUNTAIN SENSORS - PROVIDE (1) 20A-1P, 120V GFCI PROTECTED CIRCUIT TO AUTOMATIC FAUCET AND TOILET SENSORS, MAX. (12) SENSORS PER CIRCUIT.
- E. HVAC EQUIPMENT - PROVIDE (1) 20A-1P, 120V DUPLEX GFCI RECEPTACLE WITHIN 25FT OF ALL HVAC AND REFRIGERATION EQUIPMENT. PROVIDE WEATHERPROOF RECEPTACLE WITH 'WHILE IN USE' COVER IN EXTERIOR LOCATIONS.
- F. EXTERIOR EQUIPMENT - PROVIDE NEMA 3R MINIMUM RATING FOR ALL EXTERIOR AND ROOF MOUNTED EQUIPMENT INCLUDING DISCONNECT SWITCHES.
- G. AIR HANDLING UNITS (DOAS AND RTU) - PROVIDE (1) DEDICATED 20A-1P, 120V CIRCUIT PER AIR HANDLING UNIT FOR INTERNAL LIGHTING AND CONVENIENCE RECEPTACLE.
- H. SITE CONVENIENCE POWER - PROVIDE (1) 20A-1P, 120V, GFCI WEATHERPROOF DUPLEX RECEPTACLE ON BUILDING FACADE EVERY 25'.
- I. ROUTE ALL POWER FROM PANEL TO CAFE VIA IN-SLAB CONDUITS.

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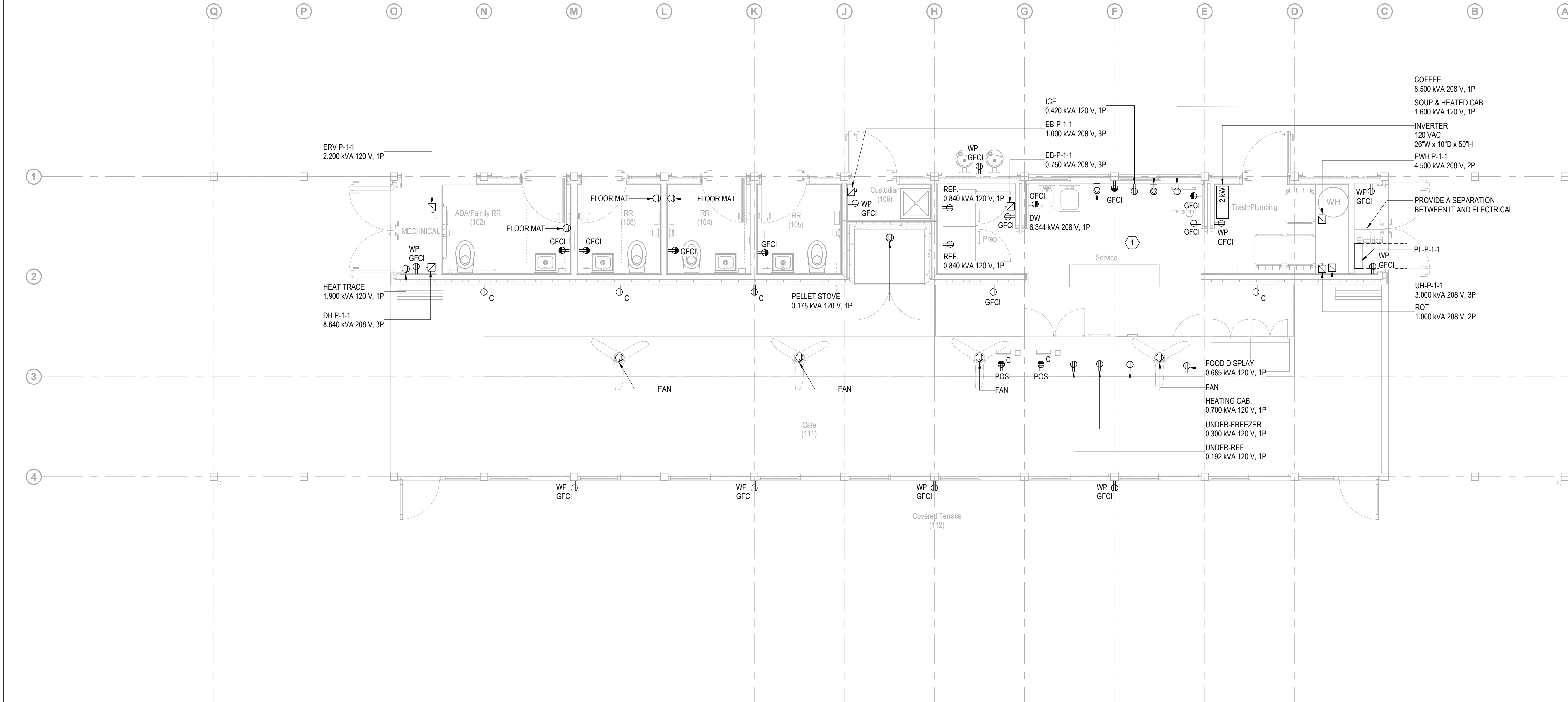
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Key Plan

KEY NOTES

- 1. SERVRY EQUIPMENT - PROVIDE DEDICATED CIRCUITS TO RECEPTACLES INDICATED IN SERVICE AND AT CAFE COUNTER. FINAL QUANTITIES, LOCATIONS AND POWER REQUIREMENTS PENDING FINAL EQUIPMENT SELECTIONS. COORDINATE FINAL LOCATIONS WITH ARCHITECT PLANS AND ELVEATIONS AND OWNER SELECTED EQUIPMENT.



Description	Date
50% Design Development	02/24/20
100% Design Development	05/29/20
50% Construction Documents	11/06/20

Project

Storm King
Art Center
Pond Pavilion

Seal

NOT FOR CONSTRUCTION

Drawing Title
Power Plan - Ground
Level

Date	11/06/20
Scale	1/4" = 1'-0"
Drawing Number	E-P-101
Sheet Size	ARCH D

GENERAL NOTES

- A. FOR ALL SYSTEMS, PROVIDE ALLOWANCES FOR ALL COMPONENTS AND ACCESSORIES REQUIRED FOR A COMPLETE AND OPERATING SYSTEM.
- B. U.O.N. 20A-1P DUPLEX RECEPTACLES SHALL BE CIRCUITED TO NO MORE THAN (6) DUPLEX RECEPTACLES PER CIRCUIT.
- C. RESTROOM GFCI - MAX. (4) DUPLEX GFCI RECEPTACLES PER CIRCUIT.
- D. AUTOMATIC FAUCET, TOILET AND DRINKING FOUNTAIN SENSORS - PROVIDE (1) 20A-1P, 120V GFCI PROTECTED CIRCUIT TO AUTOMATIC FAUCET AND TOILET SENSORS, MAX. (12) SENSORS PER CIRCUIT.
- E. HVAC EQUIPMENT - PROVIDE (1) 20A-1P, 120V DUPLEX GFCI RECEPTACLE WITHIN 25FT OF ALL HVAC AND REFRIGERATION EQUIPMENT. PROVIDE WEATHERPROOF RECEPTACLE WITH 'WHILE IN USE' COVER IN EXTERIOR LOCATIONS.
- F. EXTERIOR EQUIPMENT - PROVIDE NEMA 3R MINIMUM RATING FOR ALL EXTERIOR AND ROOF MOUNTED EQUIPMENT INCLUDING DISCONNECT SWITCHES.
- G. AIR HANDLING UNITS (DOAS AND RTU) - PROVIDE (1) DEDICATED 20A-1P, 120V CIRCUIT PER AIR HANDLING UNIT FOR INTERNAL LIGHTING AND CONVENIENCE RECEPTACLE.
- H. SITE CONVENIENCE POWER - PROVIDE (1) 20A-1P, 120V GFCI WEATHERPROOF DUPLEX RECEPTACLE ON BUILDING FACADE EVERY 25'.
- I. ROUTE ALL POWER FROM PANEL TO CAFE VIA IN-SLAB CONDUITS.



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Key Plan



Description	Date
100% Design Development	05/29/20
50% Construction Documents	11/06/20

Project

Storm King Art Center Pond Pavilion

Seal

NOT FOR CONSTRUCTION
Drawing Title
Power Plan - Roof
Level

Date	11/06/20
Scale	1/4" = 1'-0"
Drawing Number	E-P-102
Sheet Size	ARCH D

GENERAL NOTES

DESIGN DEVELOPMENT NOTES:

- A.

PROVIDE AND INSTALL LOW VOLTAGE DIMMING WIRING FOR ALL CONTROL ZONES CONNECTED TO LIGHTING CONTROL SYSTEM INCLUDING SWITCHED-ONLY ZONES.
- B.

FLOOR PLANS ARE DIAGRAMMATIC TO REPRESENT REQUIRED OCCUPANCY SENSORS AND SWITCHES TO ACHIEVE CONTROL INTENT. LIGHTING CONTROL PANELS, POWER PACKS, POWER SUPPLIES, WIRELESS RECEIVERS, INTERFACES, ETC. ARE NOT EXPLICITLY SHOWN ON FLOOR PLANS. PROVIDE ALL DEVICES AND ACCESSORIES FOR A COMPLETE SYSTEM TO ACHIEVE DESIGN INTENT. REFER TO LIGHTING CONTROL DETAILS FOR FURTHER INFORMATION.
- C.

WHEN NORMAL POWER IS AVAILABLE, LIGHT FIXTURES ON EMERGENCY POWER SHALL BE CONTROLLED WITH LIGHTING FIXTURES ON NORMAL POWER IN THE SAME ZONE. IN THE EVENT OF A POWER OUTAGE, EMERGENCY BYPASS RELAY SHALL OVERRIDE NORMAL CONTROL AND SWITCH FIXTURES ON EMERGENCY POWER TO FULL BRIGHTNESS. FIXTURES DESIGNATED 'EM' ON THE LIGHTING CONTROL SYSTEM SHALL BE CONNECTED TO BATTERY INVERTER. REFER TO LIGHTING CONTROL DETAILS.

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Key Plan



Description	Date
100% Design Development	05/29/20
50% Construction Documents	11/06/20

Project

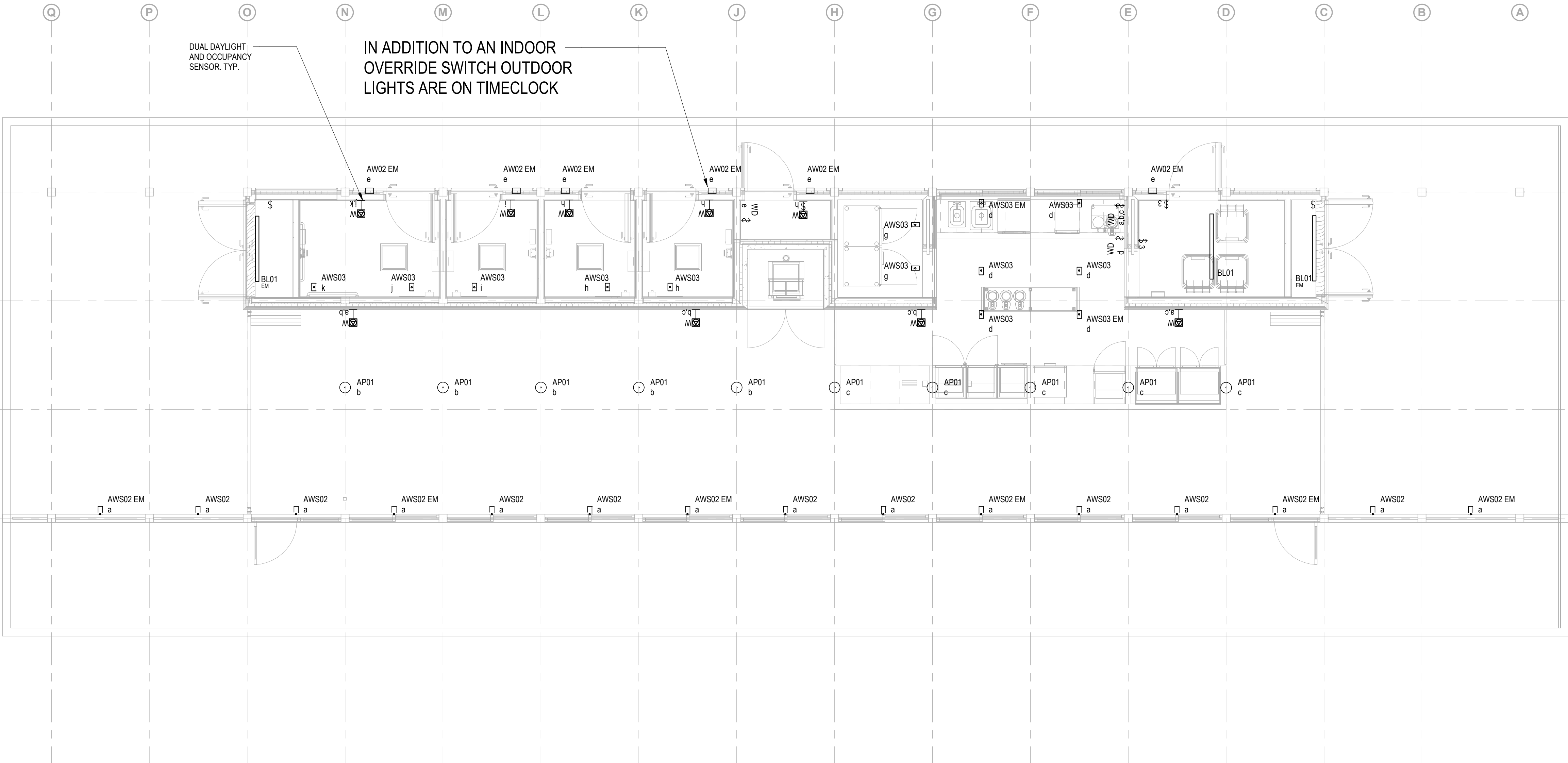
Storm King
Art Center
Pond Pavilion

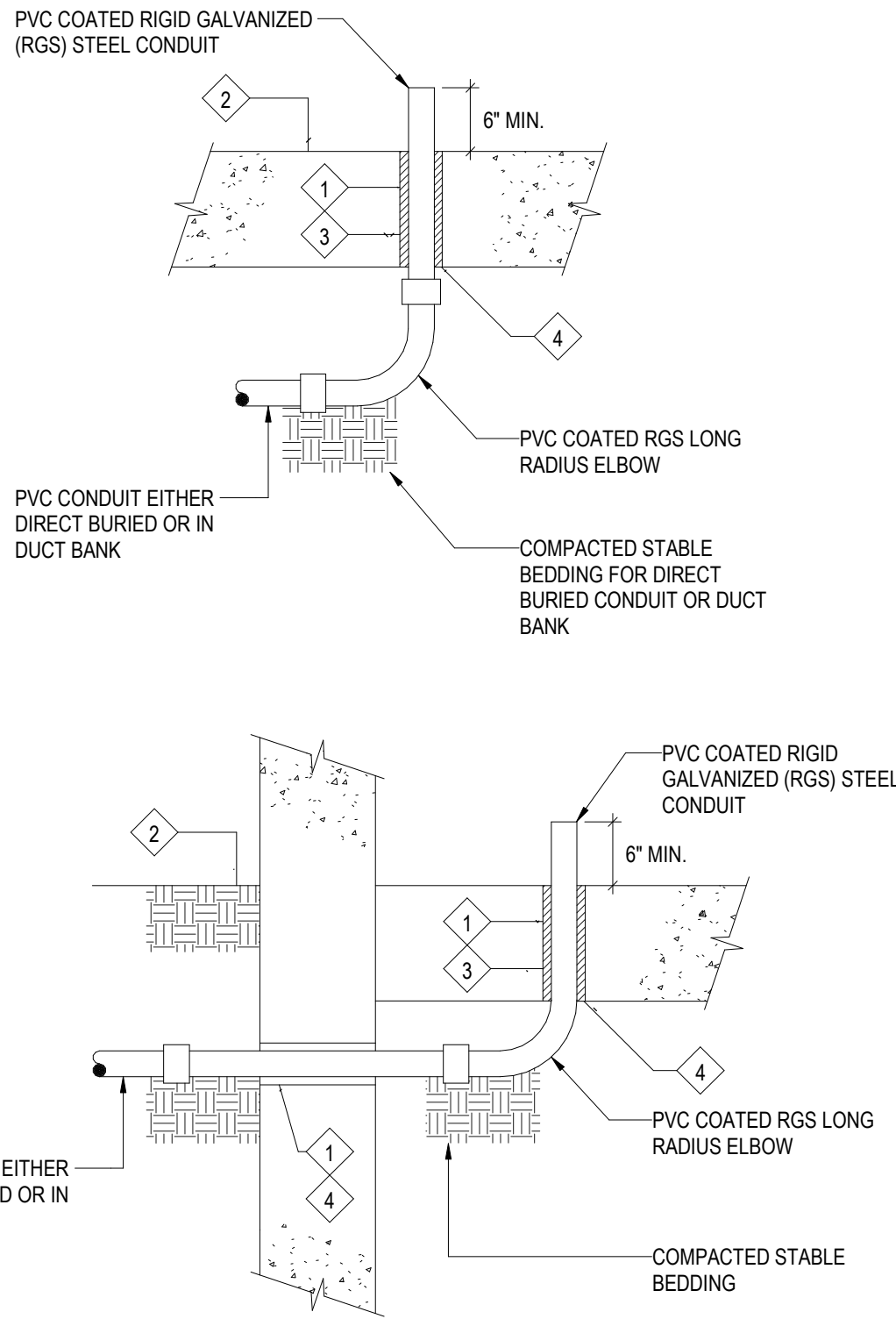
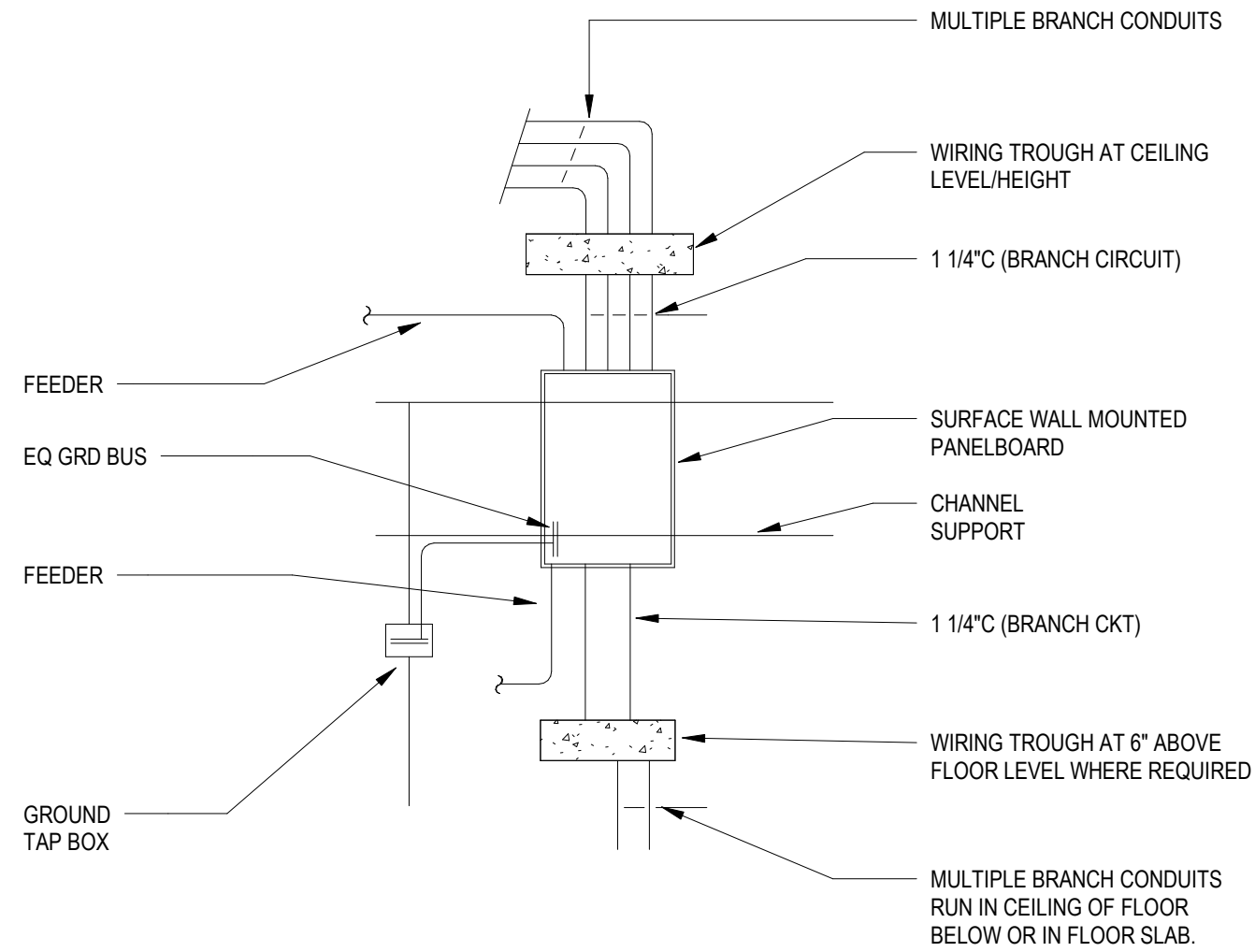
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NOT FOR CONSTRUCTION

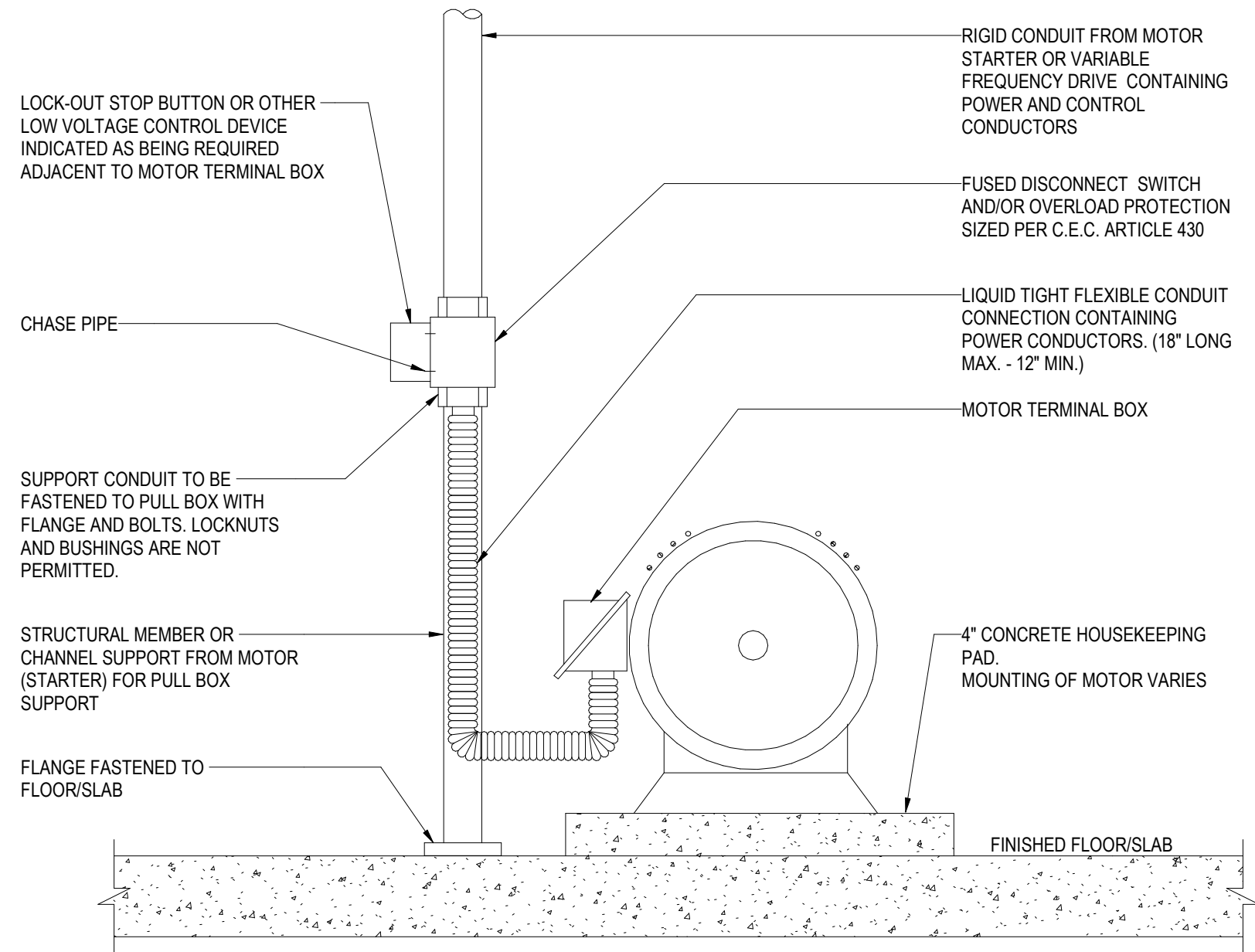
Drawing Title
Lighting Plan -
Ground Level

Date	11/06/20
Scale	1/4" = 1'-0"
Drawing Number	E-P-201
Sheet Size	ARCH D





- NOTE:
- 1 PROVIDE SLEEVE AND WATERTIGHT CONDUIT SEAL.
 - 2 TOP OF A CONCRETE FLOOR SLAB OR HOUSEKEEPING PAD.
 - 3 PROVIDE U.L. LISTED SEALANT TO PREVENT THE TRANSFER OF METHANE GAS.
 - 4 CONTRACTOR TO COORDINATE ALL PENETRATIONS WITH STRUCTURAL ENGINEER.



- NOTES:
1. MOTOR SHALL BE FURNISHED AND INSTALLED BY OTHERS U.O.N. AND WIRED BY DIVISION 26.
 2. INSTALL FLEXIBLE CONDUIT SLACK-TO-THE-TOUCH TO ALLOW FREE MOTION OF THE MOTOR SKID.

1 TYPICAL PANELBOARD INSTALLATION

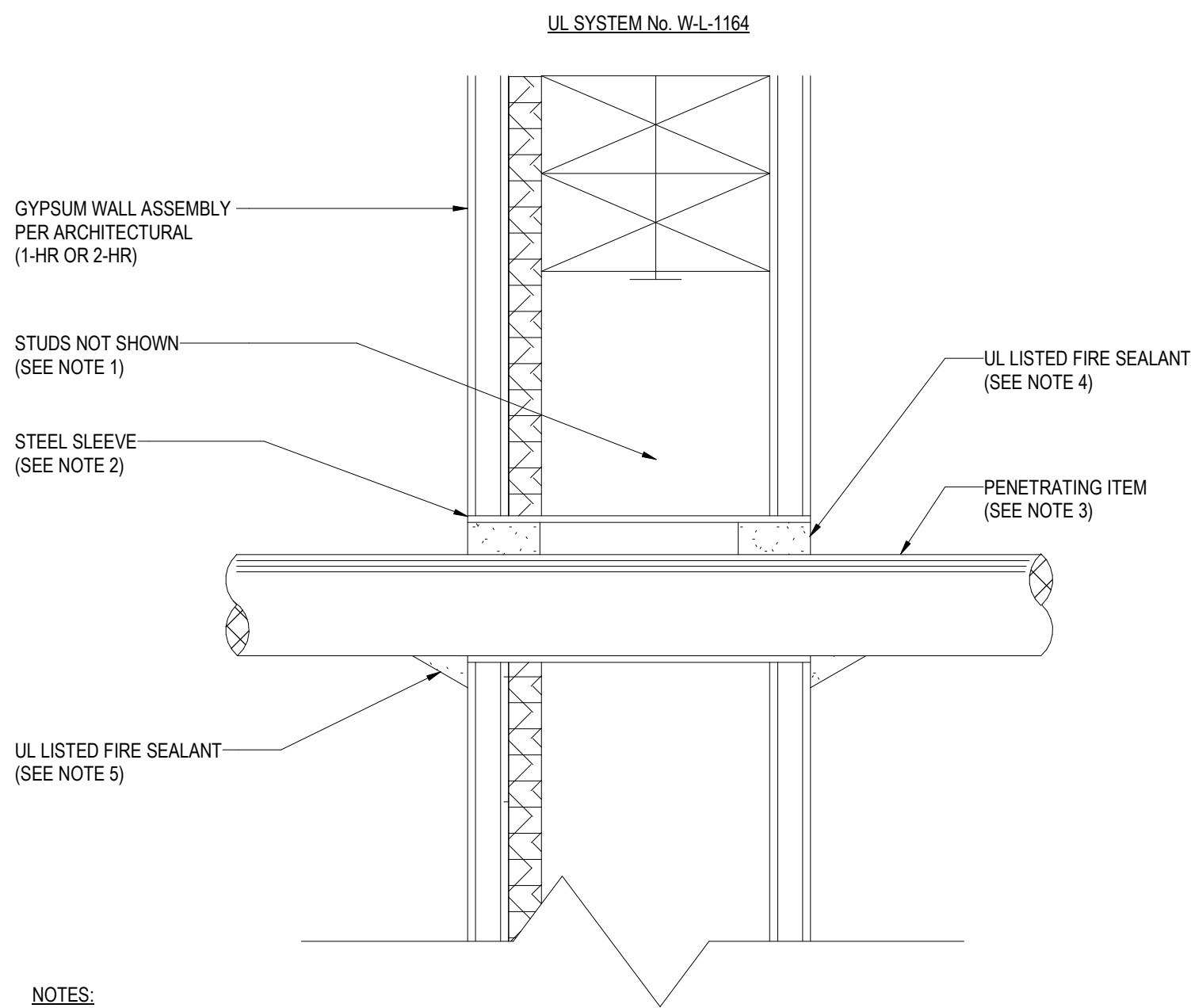
NOT TO SCALE

2 ON-GRADE FLOOR SLAB CONDUIT STUB-UP DETAILS

NOT TO SCALE

3 TYPICAL FLOOR MOUNTED MOTOR CONNECTION

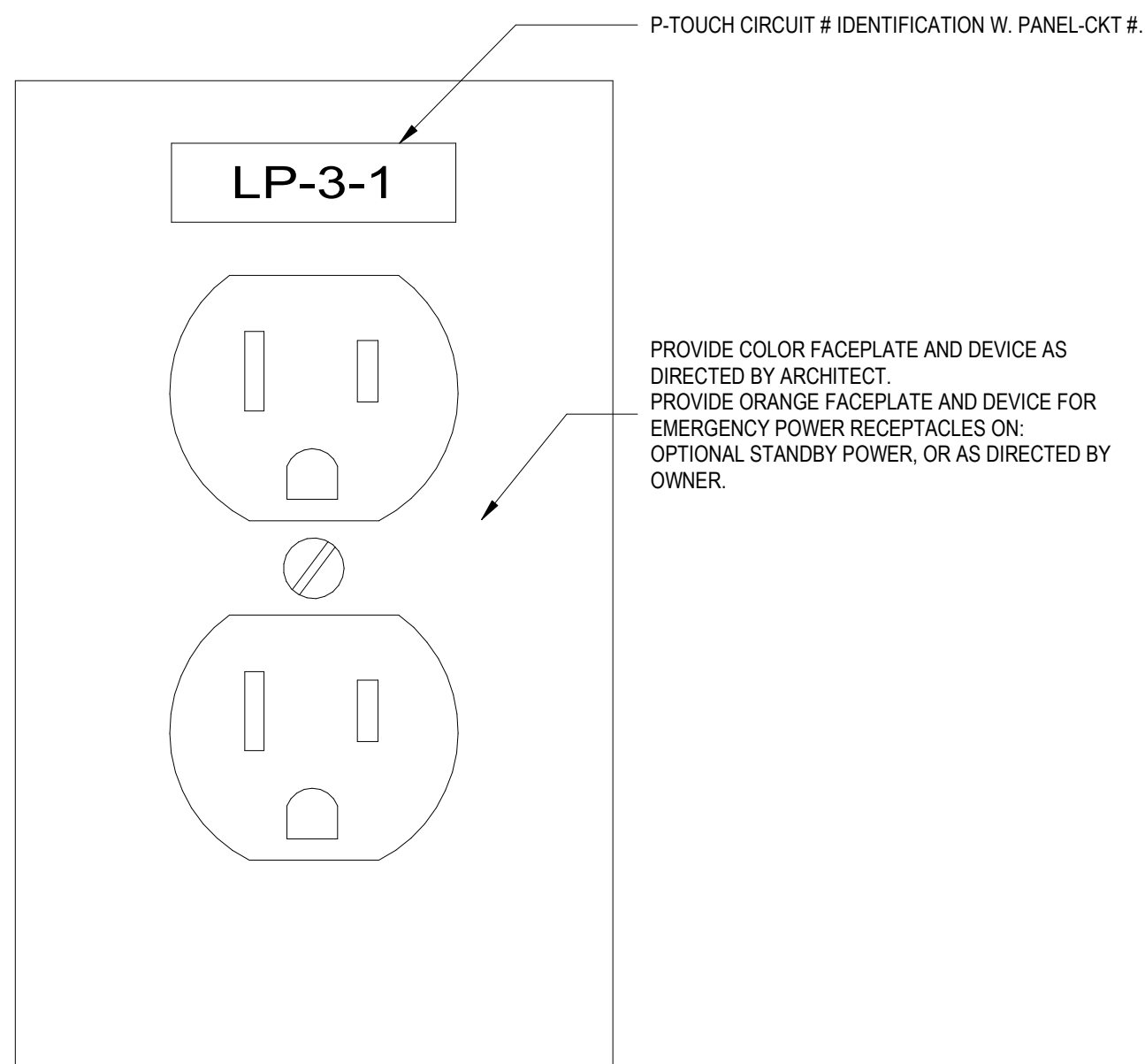
NOT TO SCALE



- NOTES:
1. WOOD STUDS TO CONSIST OF NOMINAL 2" x 4" LUMBER. STEEL STUDS TO BE MINIMUM 2-1/2" WIDE. REFER TO ARCHITECTURAL DETAILS.
 2. MAXIMUM 32" DIAMETER STEEL PIPE SLEEVE. MAXIMUM DIAMETER OPENING = 32" FOR STEEL STUD WALLS AND 14-1/2" FOR WOOD STUD WALLS. ANNULAR SPACE = 0" MINIMUM AND 1-7/8" MAXIMUM.
 3. MAXIMUM 6" NOMINAL DIAMETER STEEL CONDUIT AND/OR MAXIMUM 4" NOMINAL DIAMETER EMT CONDUIT.
 4. MINIMUM 5/8" DEPTH FOR 1-HR FIRE RATING AND 1-1/4" FOR 2-HR FIRE RATING HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT OR EQUAL FLUSH WITH WALL. MATCH THE FIRE RATING OF ASSEMBLY PER ARCHITECTURAL DRAWINGS.
 5. MINIMUM 1/2" BEAD HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT OR EQUAL AT POINT OF CONTACT.
 6. MAXIMUM 32" DIAMETER STEEL PIPE SLEEVE. MAXIMUM DIAMETER OPENING = 32" FOR STEEL STUD WALLS AND 14-1/2" FOR WOOD STUD WALLS. ANNULAR SPACE = 0" MINIMUM AND 1-7/8" MAXIMUM.
 7. MAXIMUM 6" NOMINAL DIAMETER STEEL CONDUIT AND/OR MAXIMUM 4" NOMINAL DIAMETER EMT CONDUIT.
 8. MINIMUM 5/8" DEPTH FOR 1-HR FIRE RATING AND 1-1/4" FOR 2-HR FIRE RATING HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT OR EQUAL FLUSH WITH WALL. MATCH THE FIRE RATING OF ASSEMBLY PER ARCHITECTURAL DRAWINGS.
 9. MINIMUM 1/2" BEAD HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT OR EQUAL AT POINT OF CONTACT.

4 CONDUIT PENETRATION THRU RATED INTERIOR WALL

NOT TO SCALE



5 RECEPTACLE IDENTIFICATION DETAIL

NOT TO SCALE

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Key Plan

Description	Date
50% Design Development	02/24/20
100% Design Development	05/29/20
50% Construction Documents	11/06/20

Project

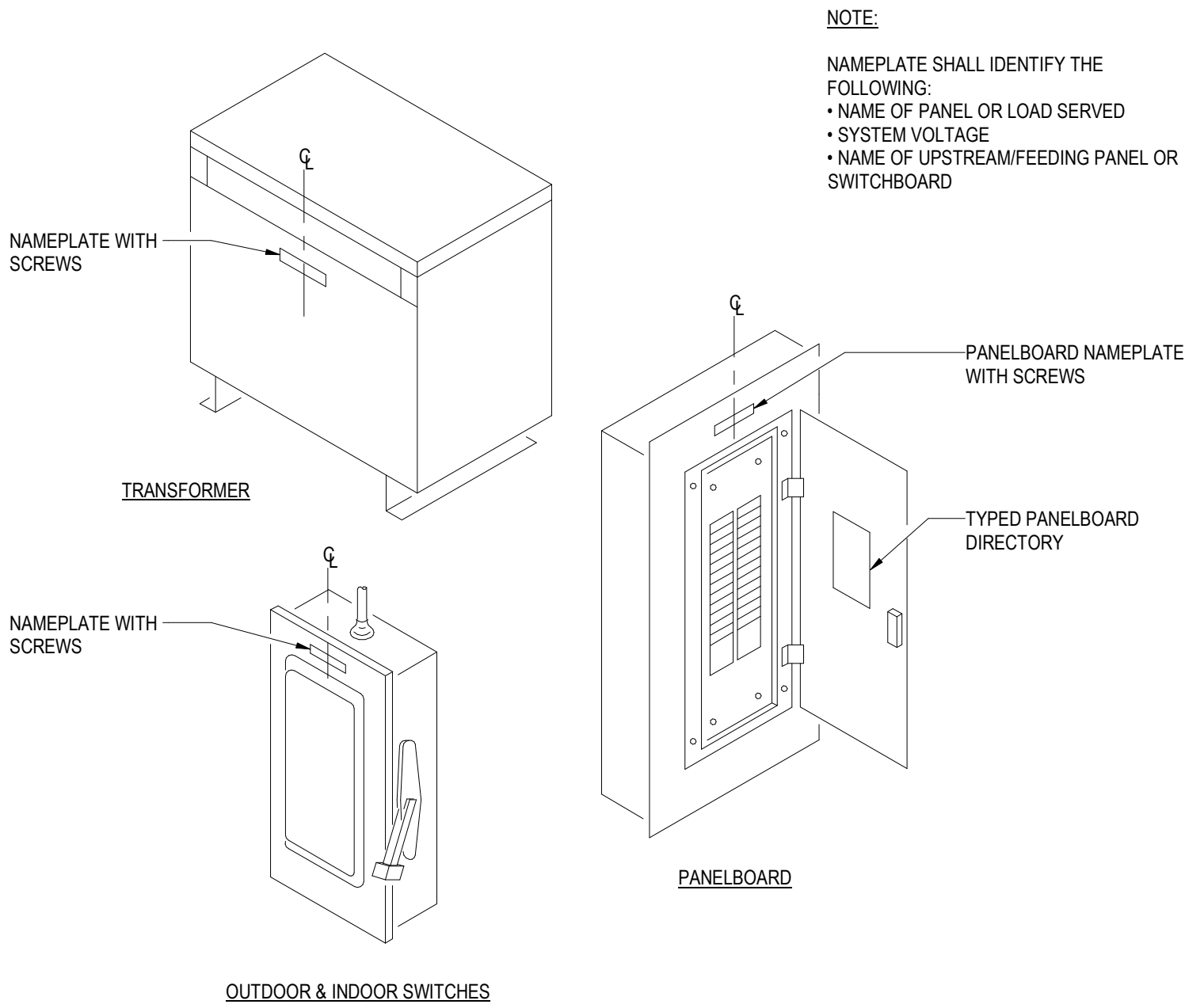
Storm King Art Center Pond Pavilion

Seal

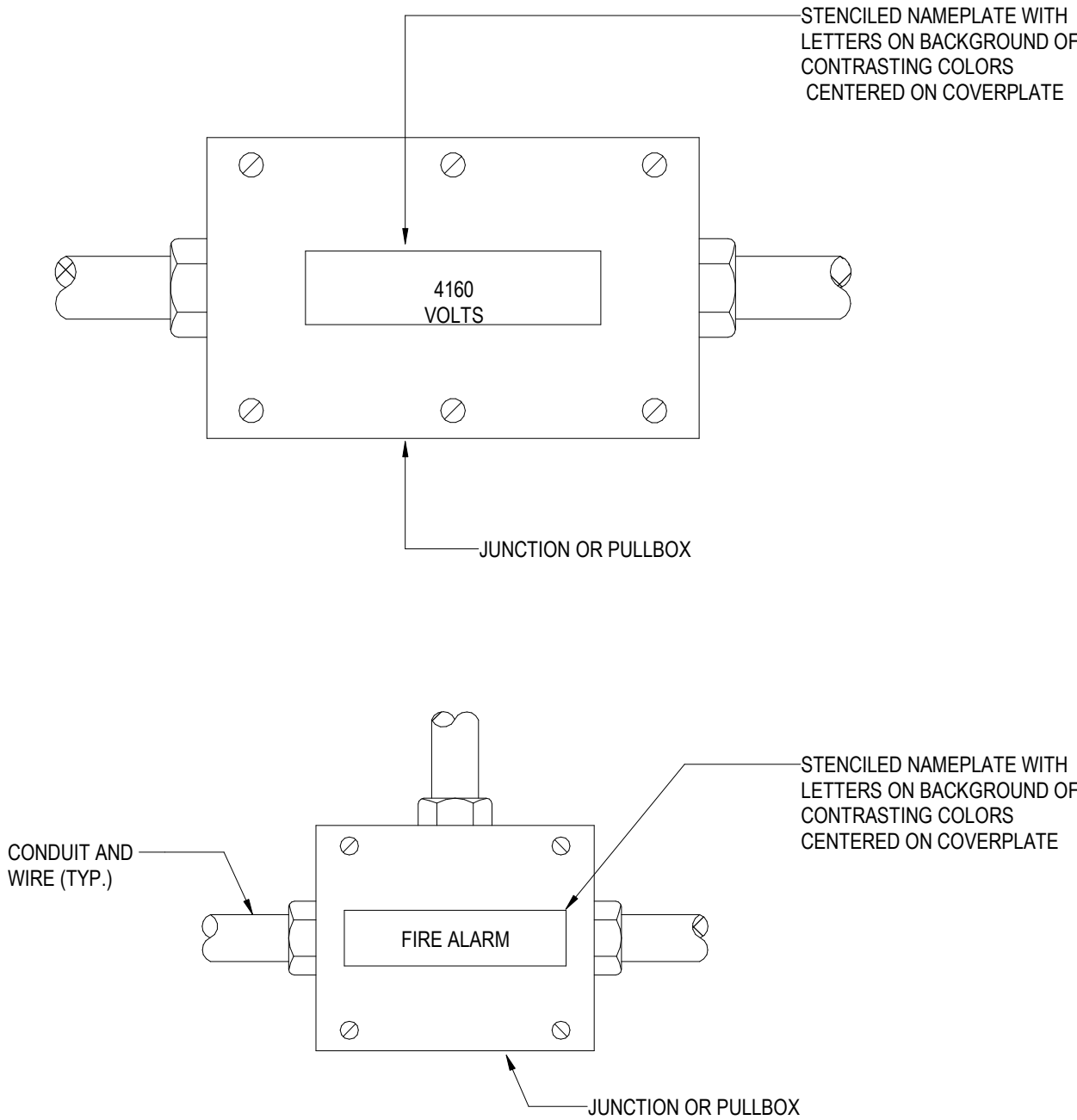
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Drawing Title
Electrical Details

Date	11/06/20
Scale	12" = 1'-0"
Drawing Number	E-P-501
Sheet Size	ARCH D



- NOTES:
1. REFER TO SPECIFICATION 260553 FOR LABELING REQUIREMENTS.
 2. PROVIDE LAMINATED, ENGRAVED PLASTIC NAMEPLATES WITH 3/8 INCH HIGH LETTERS FOR ALL SWITCHGEAR, SWITCHBOARDS, MOTOR CONTROL CENTERS, TRANSFER SWITCHES, PANELBOARDS, SIGNAL SYSTEM EQUIPMENT CABINETS, AND TERMINAL CABINETS.
 3. PROVIDE SIMILAR NAMEPLATES WITH 3/8 INCH HIGH LETTERS FOR TRANSFORMERS, TIME SWITCHES, INDIVIDUALLY MOUNTED BREAKERS, SWITCHES AND CONTROLS, SWITCHBOARDS, AND MOTOR CENTER BRANCH DEVICES.
 4. ATTACH NAMEPLATES TO GEAR WITH SHEET METAL SCREWS. ADHESIVE MOUNTED NAMEPLATES ARE NOT ACCEPTABLE.
 5. REFER TO SINGLE LINE DIAGRAMS AND SCHEDULES FOR ACTUAL DESIGNATIONS AND CIRCUIT NUMBERS THAT APPLY TO THIS PROJECT.



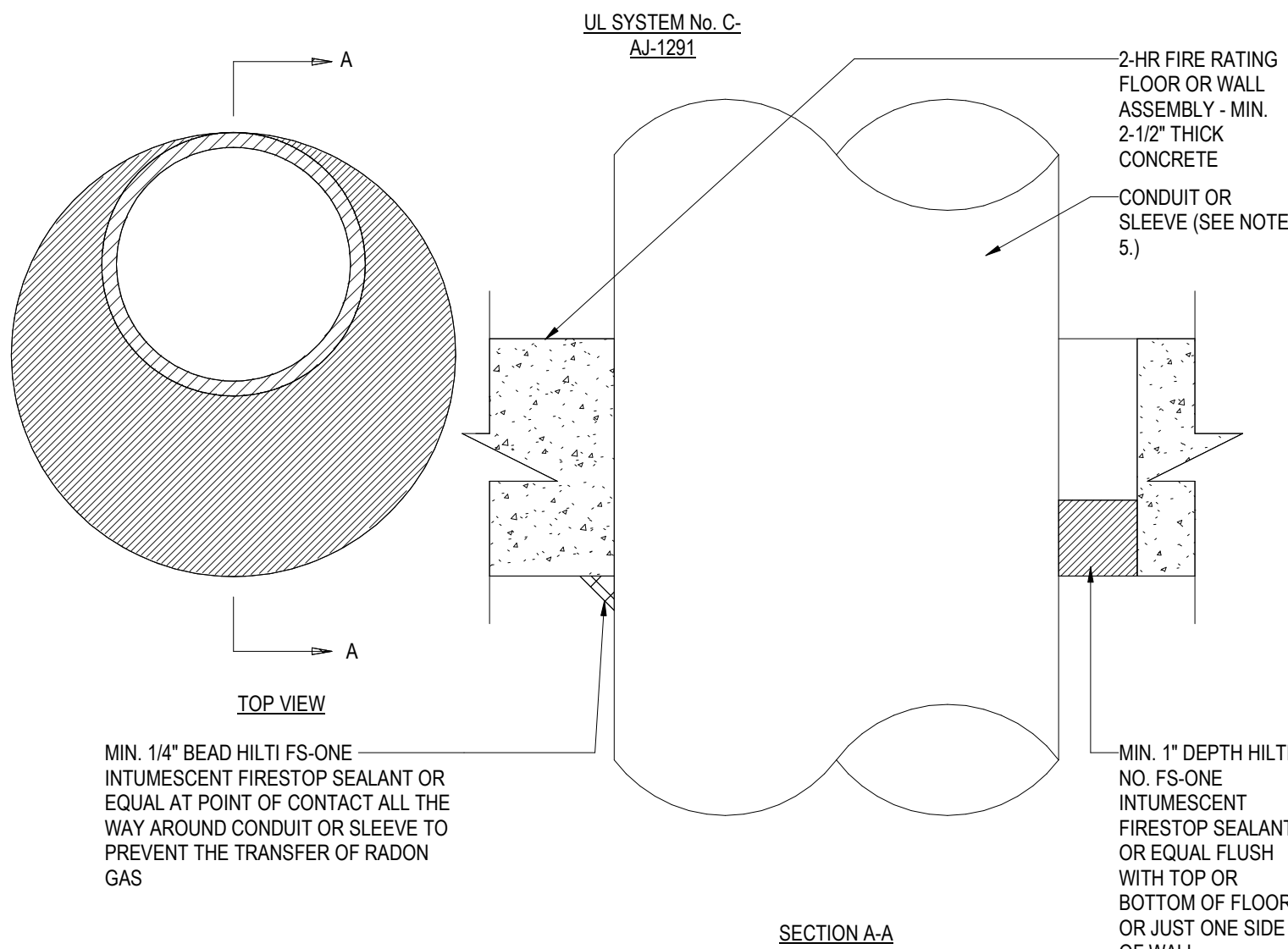
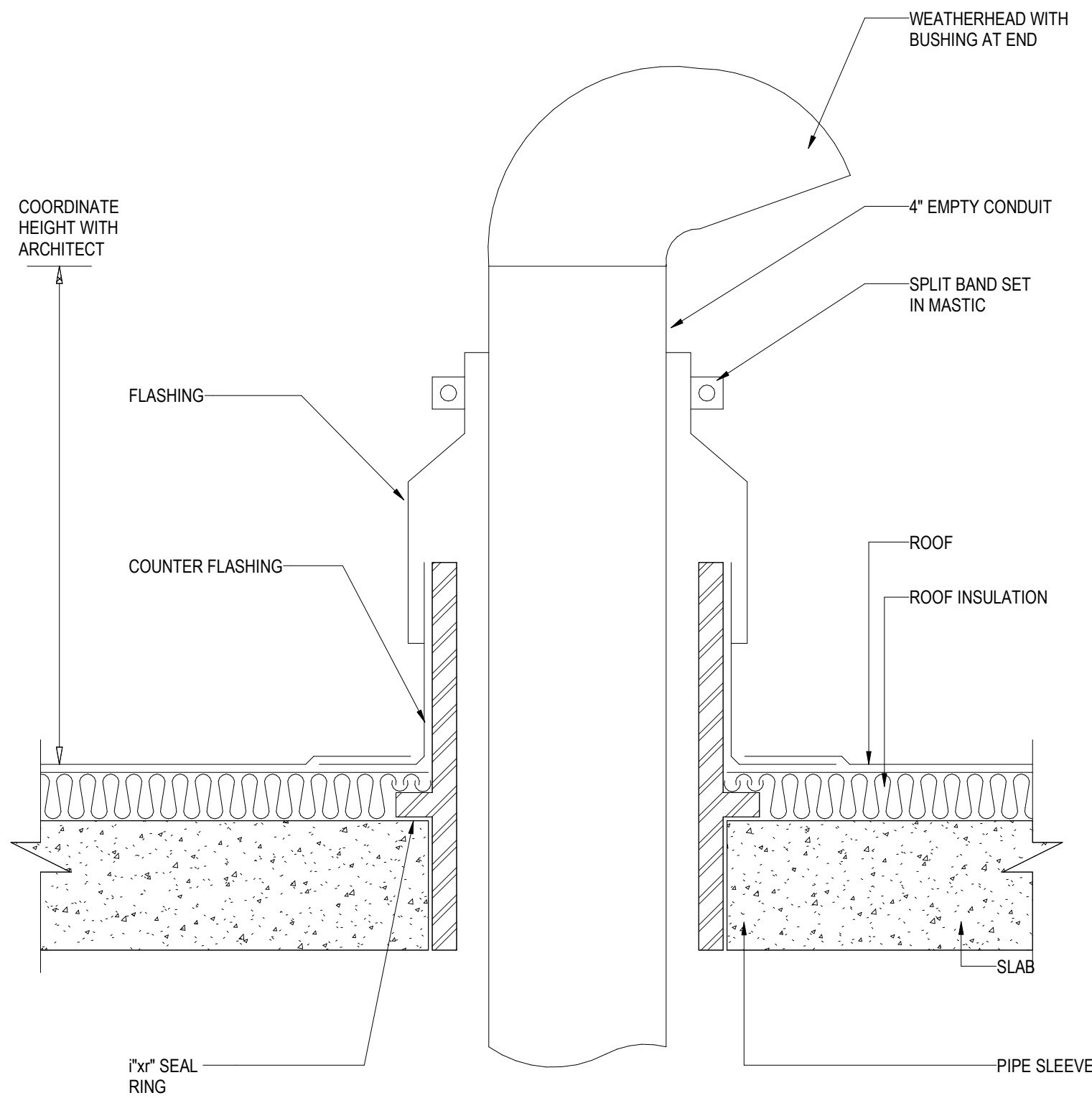
- NOTES:
1. REFER TO SPECIFICATION 260553 FOR LABELING REQUIREMENTS.
 2. PROVIDE READILY VISIBLE BLOCK LETTER STENCILED DESIGNATIONS FOR THE FOLLOWING WITH 3/8 INCH HIGH MINIMUM LETTERS ON BACKGROUND OF CONTRASTING COLORS:
 - A. JUNCTION AND PULL BOXES OF SIGNAL AND COMMUNICATION SYSTEMS IDENTIFYING SYSTEM AND VOLTAGE.
 - B. LIGHTING OUTLET AND JUNCTION BOXES: IDENTIFY VOLTAGE AND CIRCUITS CONTAINED WITHIN BOX.
 - C. 480V OUTLET AND JUNCTION BOXES: 480V. IDENTIFY CIRCUIT(S).
 - D. EACH 10 FOOT LENGTH OF MEDIUM VOLTAGE CONDUIT, EXPOSED OR IN ACCESSIBLE CEILING SPACE AND ASSOCIATED JUNCTION AND PULL BOXES: DANGER HIGH VOLTAGE
 - E. FEEDER CONDUIT RUNS ON 25 FOOT CENTERS ON BOTH SIDES OF WALL AND FLOOR PENETRATIONS AND ABOVE DEMOUNTABLE CEILINGS. INDICATE CIRCUIT DESIGNATION AND NUMBER ON ALL FEEDERS. INDICATE SYSTEM ON ALL SIGNAL AND COMMUNICATIONS SYSTEM CONDUIT SIZED 1 1/2" AND LARGER.

1 IDENTIFICATION OF ELECTRICAL EQUIPMENT

NOT TO SCALE

2 IDENTIFICATION OF ELECTRICAL BOXES

NOT TO SCALE



- NOTES:
1. CONDUIT MAY BE CENTERED OR OFFSET IN HOLE. MAXIMUM DIAMETER OF HOLE OPENING IS 14 INCHES.
 2. TEMPORARY FORMS MA BE REQUIRED TO SUPPORT THE FIRESTOP SEALANT WHILE IT CURES.
 3. FOR CONDUIT SLEEVE INSTALLATIONS PROVIDE AROUND CONDUCTORS WITHIN SLEEVE.
 4. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PATCHING AND EXTERNAL FIRESTOPPING AROUND SLEEVES (WHERE APPLICABLE) AND CONDUIT.
 5. MAXIMUM 6" NOMINAL DIAMETER STEEL CONDUIT AND MAXIMUM 4" NOMINAL DIAMETER EMT CONDUIT.

3 CONDUIT PENETRATION THRU ROOF DETAIL

NOT TO SCALE

4 CONDUIT THROUGH 2-HR CONCRETE WALL/SLAB

NOT TO SCALE

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Key Plan

Description	Date
50% Design Development	02/24/20
100% Design Development	05/29/20
50% Construction Documents	11/06/20

Project

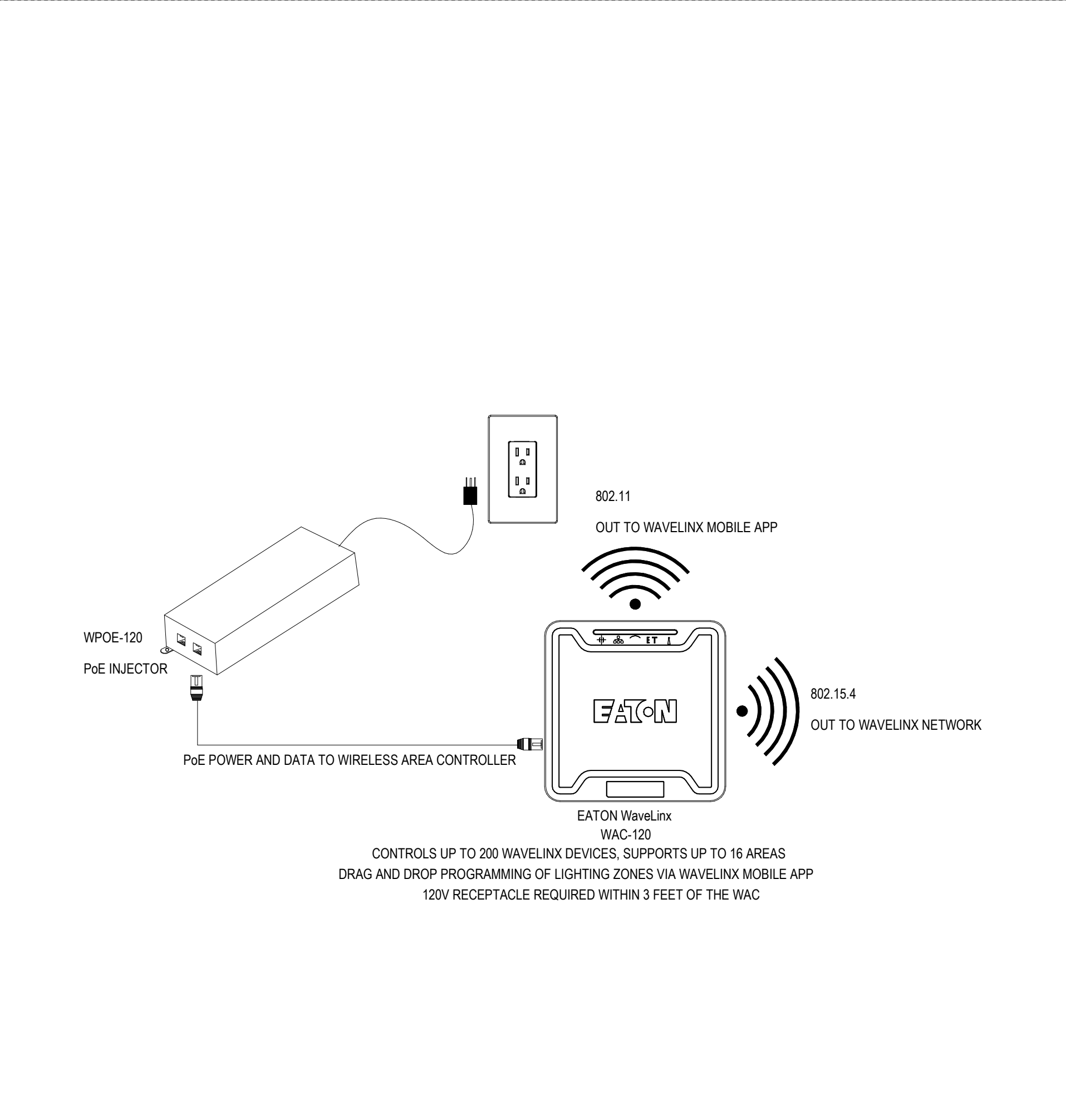
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Seal

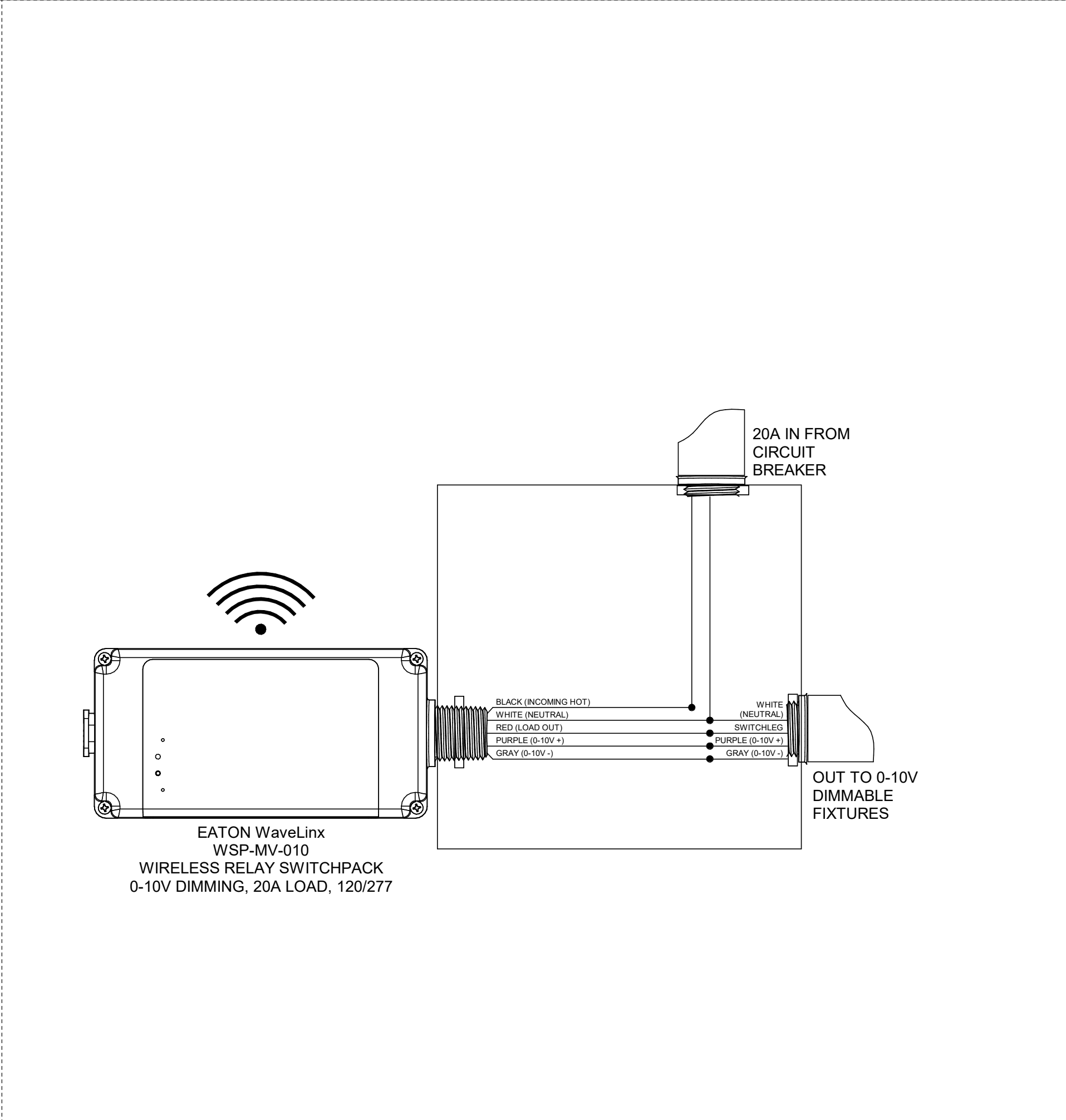
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Drawing Title
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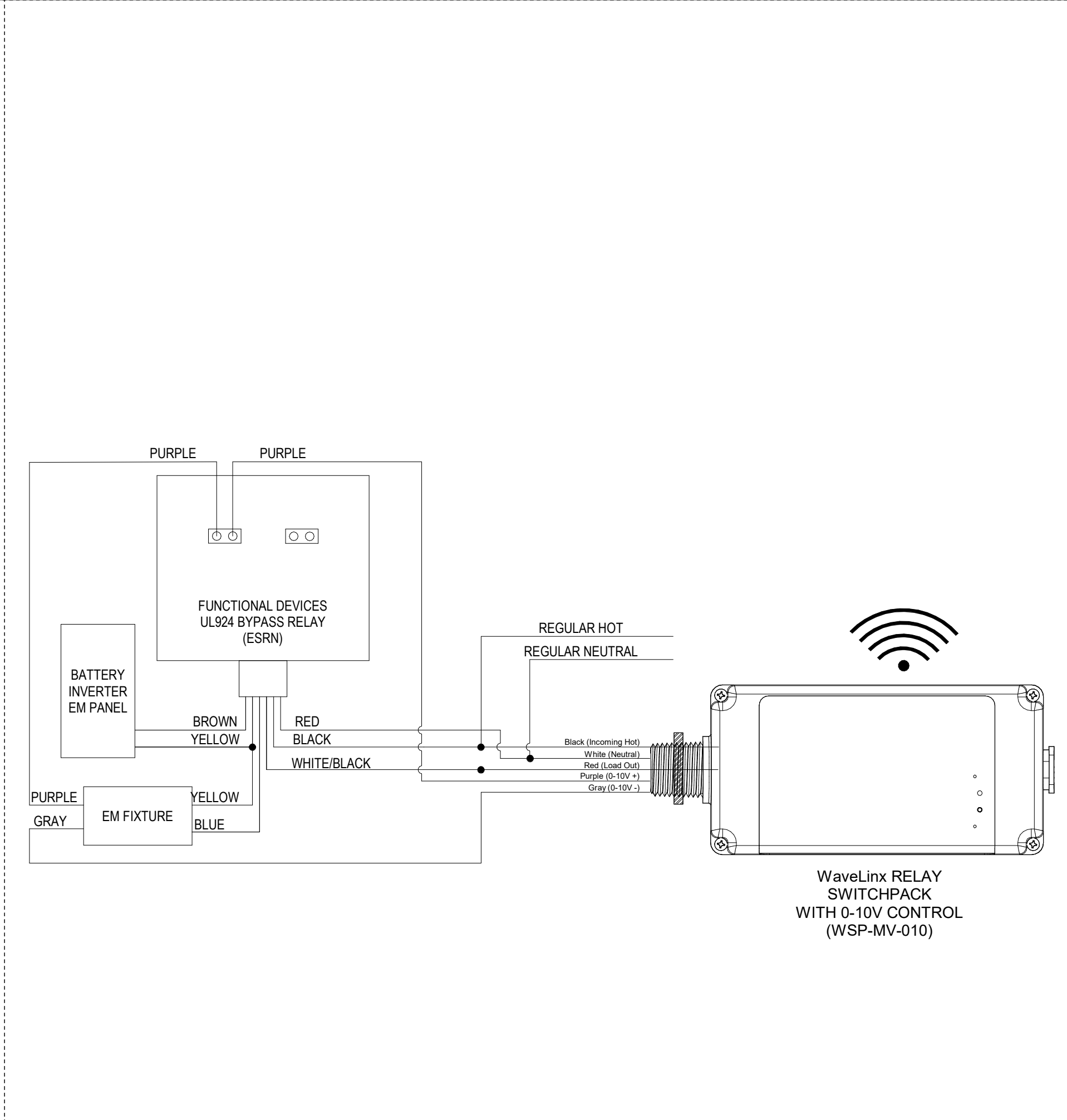
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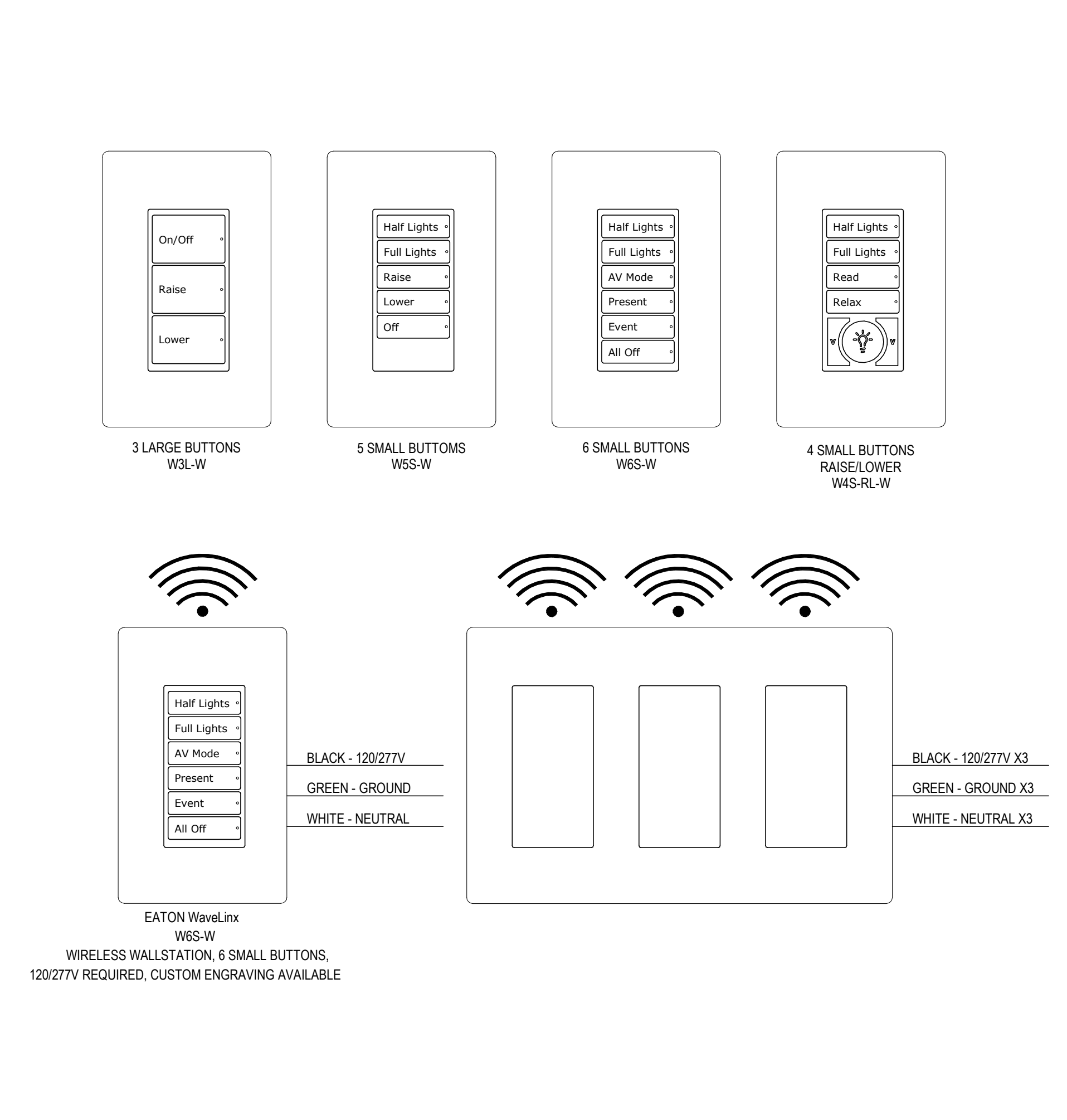
1 POE POWER TO WIRELESS CONTROLLER DETAIL
NOT TO SCALE



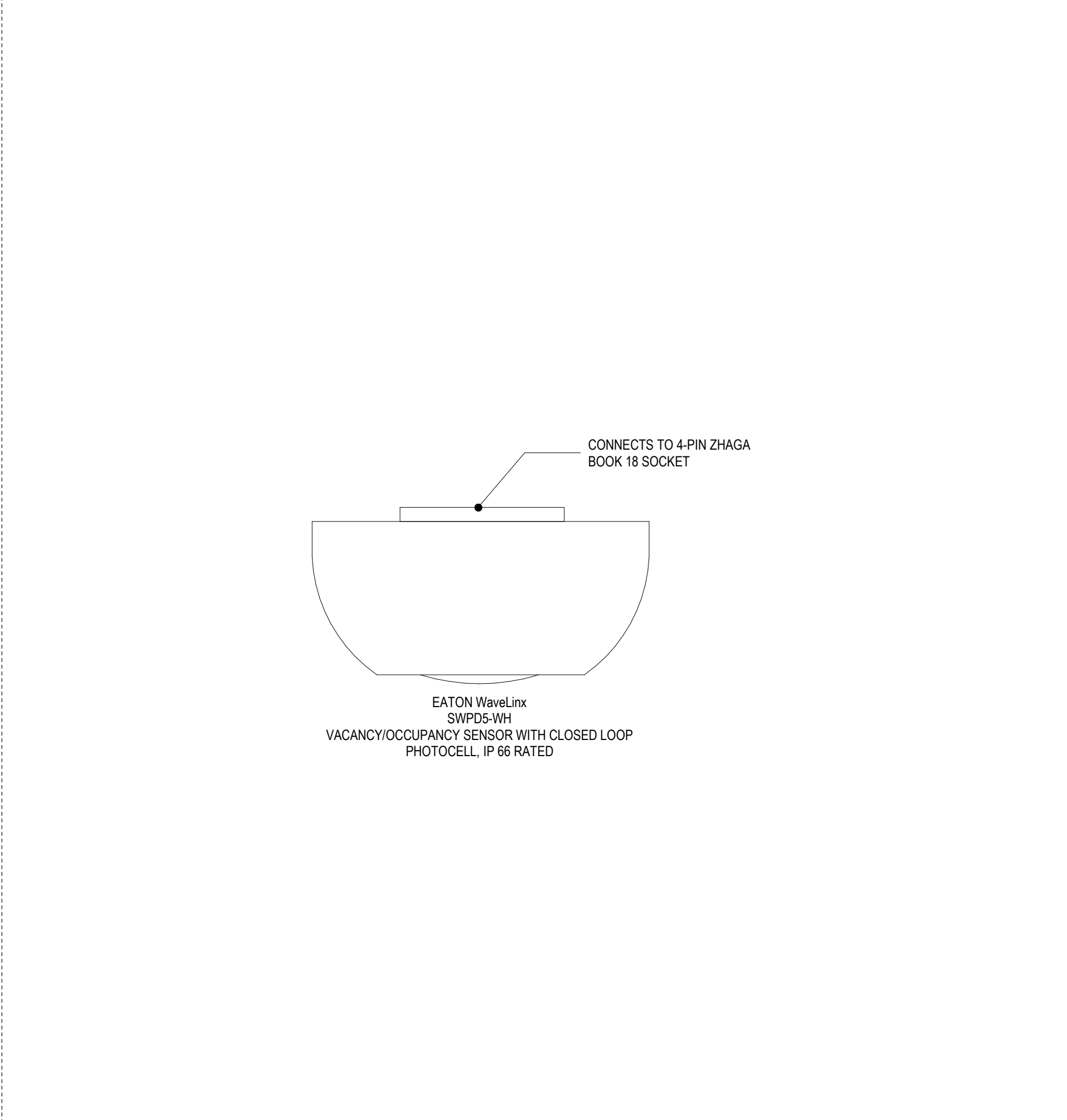
2 TYPICAL WIRELESS SWITCHPACK WIRING DETAIL
NOT TO SCALE



3 EMERGENCY BYPASS RELAY AND WIRELESS SWITCHPACK DETAIL
NOT TO SCALE



4 WIRELESS WALL STATION DETAILS
NOT TO SCALE



5 WIRELESS OUTDOOR OCCUPANCY SENSOR AND PHOTOCELL DETAIL
NOT TO SCALE

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Key Plan	
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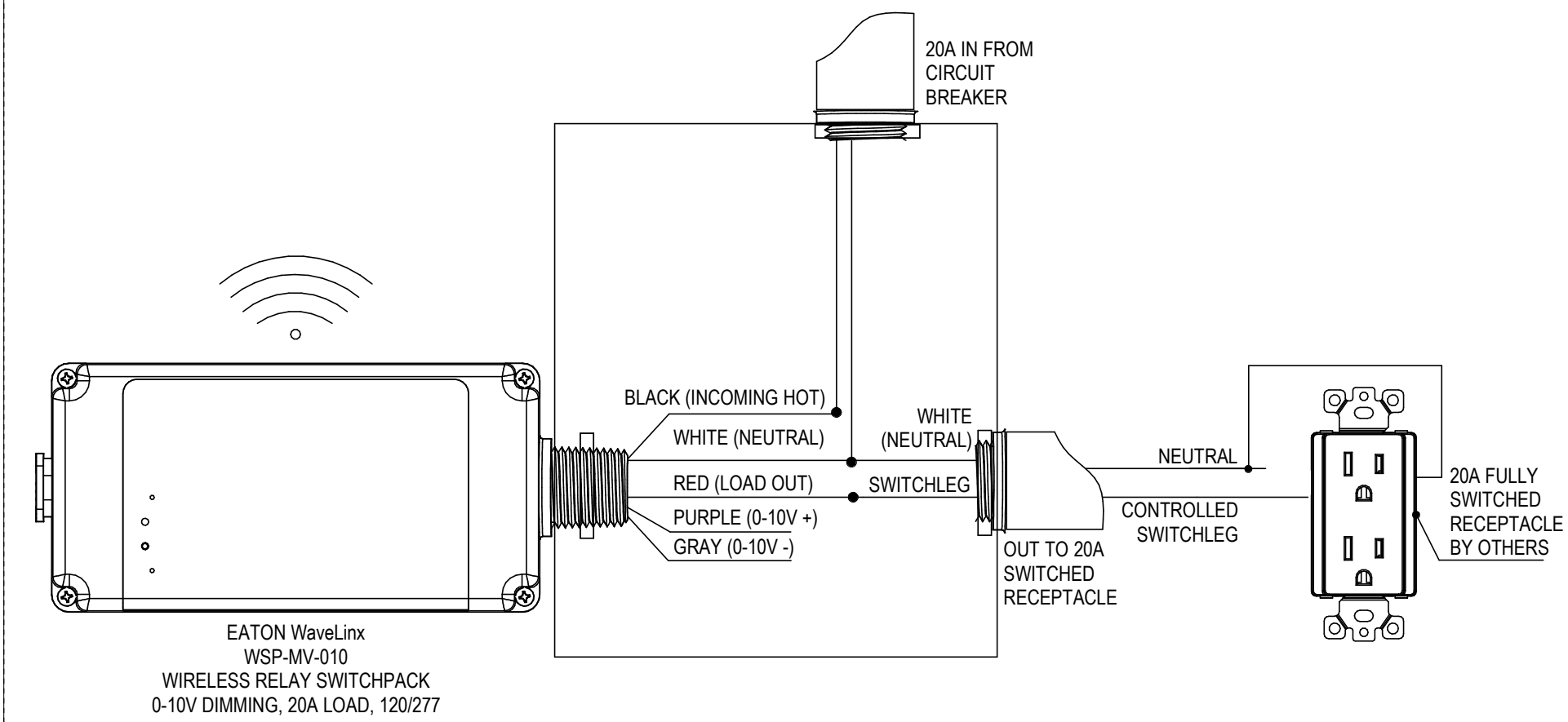
Project

Storm King Art Center Pond Pavilion

Seal

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Drawing Title
Electrical Details

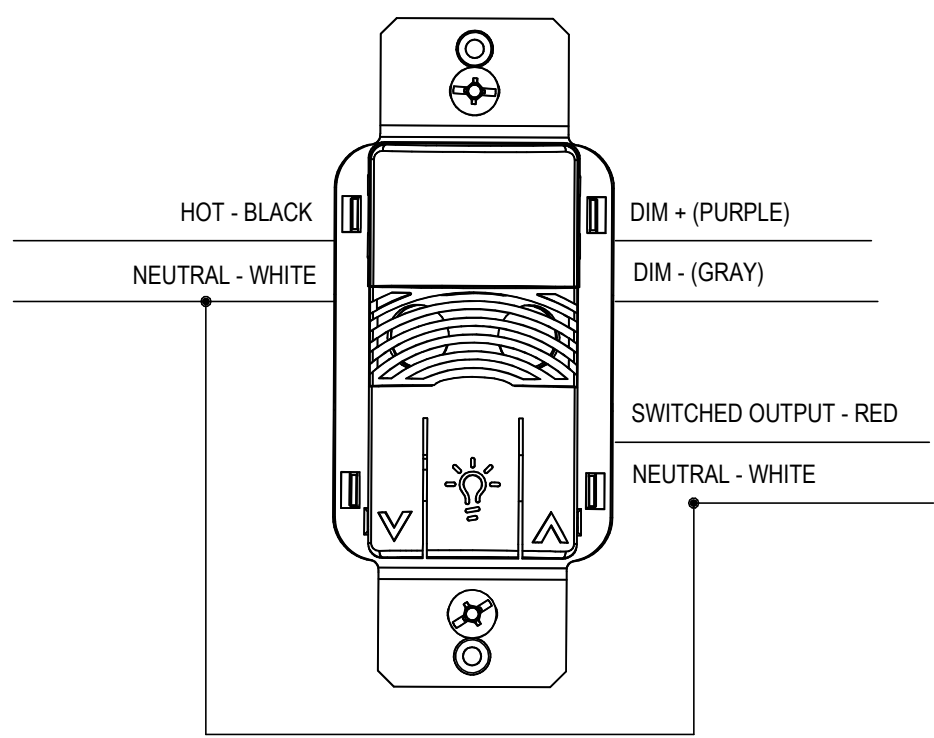
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Drawing Number	E-P-503
Sheet Size	ARCH D



AUTOMATIC RECEPTACLE CONTROL VIA LIGHTING CONTROL:

1. AUTOMATIC RECEPTACLE CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH ASHRAE 8.4.2 TO ALL REQUIRED SPACES, INDIVIDUAL WORKSTATIONS, AND ENERGIZED MODULAR FURNITURE.
2. EACH CONTROLLED RECEPTACLE SHALL TURN OFF WITHIN 20 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE CONTAINING THE CONTROLLED RECEPTACLES.
3. AT LEAST 50% OF ALL 120V 15A-20A RECEPTACLES IN EACH OF THE FOLLOWING SPACES IDENTIFIED SHALL BE AUTOMATICALLY CONTROLLED:
CAFE INTERIOR
4. AT LEAST 25% OF ALL 120V 15A-20A BRANCH CIRCUIT FEEDERS INSTALLED FOR MODULAR FURNITURE SHALL BE AUTOMATICALLY CONTROLLED.
5. EACH CONTROLLED RECEPTACLE SHALL BE PERMANENTLY MARKED TO VISUALLY DIFFERENTIATE THEM FROM UNCONTROLLED RECEPTACLES.

1 WIRELESS RELAY SWITCHPACK
NOT TO SCALE



2 DUAL TECH VACANCY SENSOR DIMMING WALL STATION
NOT TO SCALE

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Key Plan

Description	Date
50% Design Development	02/24/20
100% Design Development	05/29/20
50% Construction Documents	11/06/20

Project

Storm King Art Center Pond Pavilion

Seal

NOT FOR CONSTRUCTION
Drawing Title
Electrical Details

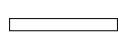
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Scale	1/2" = 1'-0"
Drawing Number	E-P-504
Sheet Size	ARCH D

FEEDER SCHEDULE	
DEVICE	FEEDER
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CS-PG-1	1-1/2"C, 3#1, #1N, #8G

E - EQUIPMENT (MECHANICAL, PLUMBING, FIRE PROTECTION) SCHEDULE							
EQUIPMENT	LEVEL	HP RATING	kVA	FLA	VOLTAGE	PHASE	POLES
DH P-1-1	Ground Level		8.640 kVA	24 A	208 V	3	3
DOMESTIC WATER RECIRC PUMPS	Ground Level	.5	1.180 kVA	10 A	120 V	1	1
DOMESTIC WATER WELL PUMP (CIVIL)	Ground Level	3	0.000 kVA	11 A	208 V	3	3
DW	Ground Level		6.344 kVA	31 A	208 V	0	1
EB-P-1-1	Ground Level		0.750 kVA	0 A	208 V	3	3
EB-P-1-1	Ground Level		1.000 kVA	0 A	208 V	3	3
EF P-2-1	Roof Level	1/2	0.010 kVA	0 A	120 V	1	1
ELECTRIC RESISTANCE HEAT TRACING PLUMBING PIPING	Ground Level		2.400 kVA	7 A	208 V	3	3
ERV P-1-1	Ground Level		2.200 kVA	18 A	120 V	1	1
EWHP-1-1	Ground Level		4.500 kVA	22 A	208 V	1	2
FAN	Ground Level		0.000 kVA	0 A	120 V	0	1
FAN	Ground Level		0.000 kVA	0 A	120 V	0	1
FAN	Ground Level		0.000 kVA	0 A	120 V	0	1
FAN	Ground Level		0.000 kVA	0 A	120 V	0	1
FLOOR MAT	Ground Level		0.400 kVA	4 A	120 V	0	1
FLOOR MAT	Ground Level		0.400 kVA	4 A	120 V	0	1
FLOOR MAT	Ground Level		0.400 kVA	4 A	120 V	0	1
HEAT TRACE	Ground Level		1.900 kVA	0 A	120 V	1	1
HEAT TRACE	Ground Level		0.175 kVA	0 A	120 V	0	1
PELLET STOVE	Ground Level		1.000 kVA	0 A	208 V	1	2
ROT	Ground Level		0.000 kVA	11 A	208 V	3	3
SEWAGE REJECTOR PUMP (CIVIL)	Ground Level	3	3.000 kVA	0 A	208 V	3	3
UHP-1-1	Ground Level		3.000 kVA	0 A	208 V	3	3
UHP-1-1	Ground Level		3.000 kVA	0 A	208 V	3	3

E - KITCHEN EQUIPMENT							
EQUIPMENT	LEVEL	HP RATING	kVA	FLA	VOLTAGE	PHASE	POLES
COFFEE	Ground Level		8.500 kVA	35 A	208 V	0	1
FOOD DISPLAY	Ground Level		0.685 kVA	6 A	120 V	0	1
HEATING CAB.	Ground Level		0.700 kVA	6 A	120 V	0	1
ICE	Ground Level		0.420 kVA	4 A	120 V	0	1
POS	Ground Level		0.360 kVA	0 A	120 V	0	1
POS	Ground Level		0.360 kVA	0 A	120 V	0	1
REF.	Ground Level		0.840 kVA	7 A	120 V	0	1
REF.	Ground Level		0.840 kVA	7 A	120 V	0	1
SOUP & HEATED CAB	Ground Level		1.600 kVA	0 A	120 V	0	1
UNDER-FREEZER	Ground Level		0.300 kVA	6 A	120 V	0	1
UNDER-REF	Ground Level		0.192 kVA	2 A	120 V	0	1

BACK OF HOUSE LIGHTING FIXTURE SCHEDULE

FIXTURE TYPE	SYMBOL	FIXTURE DESCRIPTION	MANUFACTURER	CATALOG NUMBER	UNITS	LAMPS			CONTROL		TOTAL WATTAGE
						QTY PER UNIT	TYPE	WATTS	VOLTAGE	TYPE	
BL01		4' SUSPENDED/SURFACE MOUNTED INDUSTRIAL	CREE - LS SERIES	LS4-25L-35K-120-10V	EACH	1	3500K LED	23 W	UNV	INTEGRAL 0-10V DIMMING	23 W

GENERAL NOTES:

- A.

PRELIMINARY EQUIPMENT SCHEDULE (MECHANICAL, PLUMBING, FIRE PROTECTION) PROVIDED FOR PRICING. REFER TO MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR EQUIPMENT LOCATIONS. ALLOW FOR ALL FINAL CONNECTIONS WITH LOCAL DISCONNECT SWITCHES, OVERCURRENT PROTECTION AND HOOK UPS.
- B.

REFER TO LIGHTING FIXTURE SPECIFICATION FOR REFERENCED CONTROL NARRATIVE AND PRELIMINARY LIGHTING FIXTURE SCHEDULE.

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Key Plan

Description	Date
50% Design Development	02/24/20
100% Design Development	05/29/20
50% Construction Documents	11/06/20

Project

Storm King
Art Center
Pond Pavilion

Seal

NOT FOR CONSTRUCTION

Drawing Title
Electrical Schedules

Date	11/06/20
Scale	12" = 1'-0"
Drawing Number	E-P-601
Sheet Size	ARCH D

PL-P-1-1

ROOM: Electrical 110				VOLTS: 208Y/120V, 3P 4W				A.I.C.:								
MOUNTING: SURFACE				BUS AMPS: 400 A				MCB: 300 A MCB								
FED FROM:				NEUTRAL: 100%				LUGS: STANDARD								
NOTE:																
CONDUIT & CONDUCTOR		CKT #	CKT BKR	# OF POLES	CIRCUIT DESCRIPTION	A		B		C		CIRCUIT DESCRIPTION	# OF POLES	CKT BKR	CKT #	CONDUIT & CONDUCTOR
3/4"C, 1#12, #12N, #12G		1	20 A	1	RECEPTACLES	180	0					CS-PG-1	3	100...	2	1-1/2"C, 3#1, #1N, #8G
		3							0			--	--	--	4	--
		5									0	--	--	--	6	--
		7										--	--	--	8	--
		9													10	
		11													12	
		13													14	
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		37													38	
		39													40	
		41													42	
		43													44	
		45													46	
		47													48	
						180 VA		0 VA		0 VA						
						2 A		0 A		0 A						
LOAD CLASSIFICATION				CONNECTED LOAD		DEMAND		CALCULATED DEMAND		TOTALS						
LIGHTING				0.000 kVA		125%		0.000 kVA		TOTAL CONNECTED LOAD: 180 VA TOTAL CALCULATED DEMAND: 180 VA BALANCED THREE PHASE AMPS: 0 A						
MOTORS				0.000 kVA		125% LARGEST + 100% REMAINDER		0.000 kVA								
RECEPTACLES				0.180 kVA		100% FIRST 10kVA, 50% REMAINDER		0.180 kVA								
HEATING/COOLING				0.000 kVA		100%		0.000 kVA								
KITCHEN				0.000 kVA		PER NEC TABLE 220.56		0.000 kVA								
CONTINUOUS				0.000 kVA		125%		0.000 kVA								
NONCONTINUOUS				0.000 kVA		100%		0.000 kVA								
NONCOINCIDENTAL				0.000 kVA		0%		0.000 kVA								

GENERAL NOTES

- A. SHORT CIRCUIT EQUIPMENT RATINGS: ASSUME THE FOLLOWING SHORT CIRCUIT CURRENT RATINGS FOR EQUIPMENT LOCATED:
- a. 10 KAIC; FOR ALL EQUIPMENT THROUGHOUT BUILDING.
- b. PRIMARY CONNECTED EQUIPMENT AVAILABLE FAULT CURRENT TO BE CONFIRMED BY UTILITY.

KEY NOTES

1. LOCATION OF UTILITY JUNCTION BOX, TRANSFORMER AND METER TO BE CONFIRMED BY CIVIL.
2. TRANSFORMER RATING TO BE CONFIRMED BY SITE SURVEY FROM CIVIL. RATING ASSUMED FROM UTILITY SUPPLIED DOCUMENTS.
3. CUSTOMER SUPPLIED AND INSTALLED PRIMARY CONDUITS AND CONDUCTORS.
4. CUSTOMER SECONDARY CONDUITS AND CONDUCTORS.

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Key Plan

Description	Date
50% Design Development	02/24/20
100% Design Development	05/29/20
50% Construction Documents	11/06/20

Project

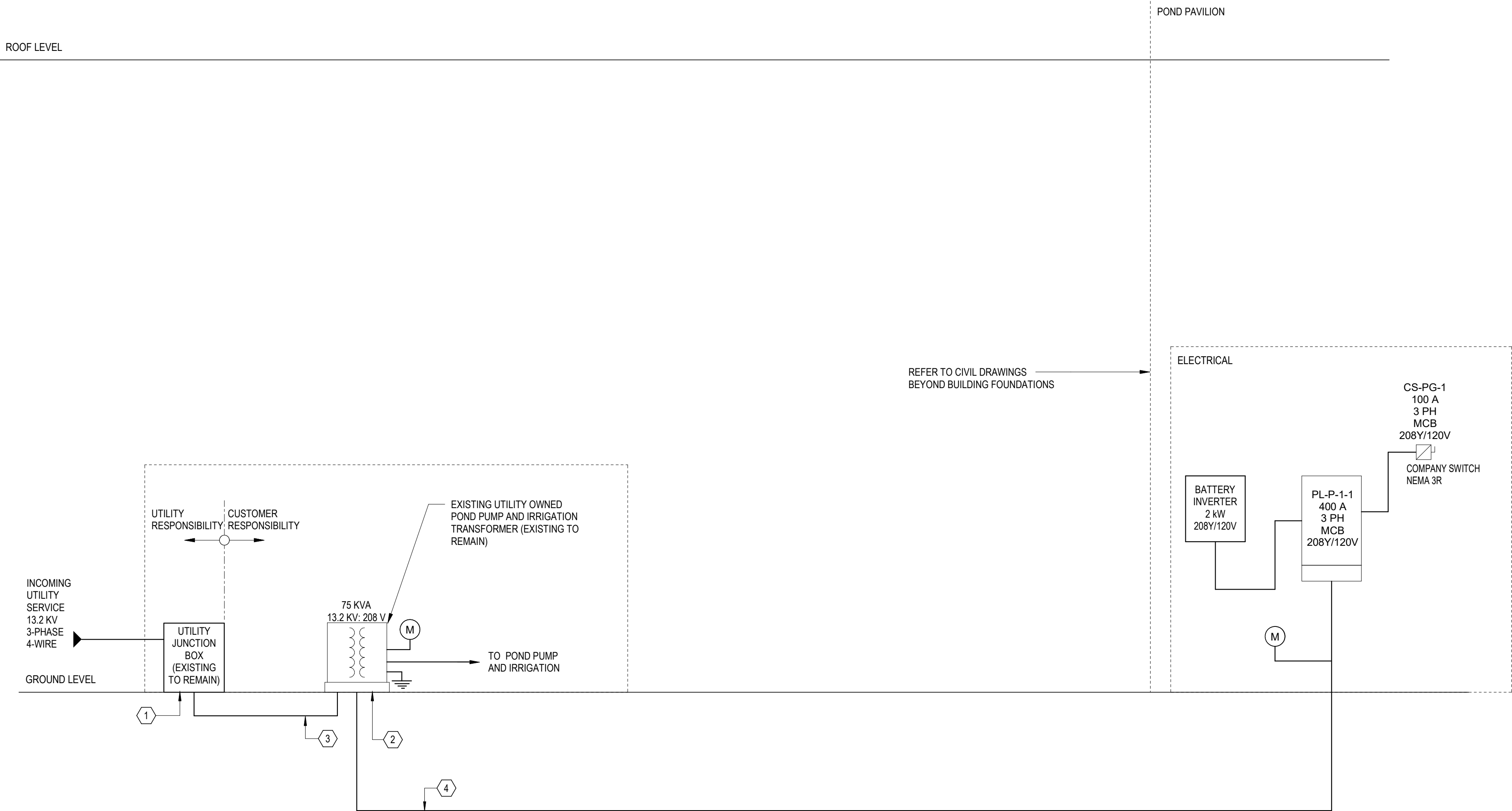
Storm King
Art Center
Pond Pavilion

Seal

NOT FOR CONSTRUCTION

Drawing Title
Electrical Riser

Date	11/06/20
Scale	12" = 1'-0"
Drawing Number	E-P-701
Sheet Size	ARCH D



GENERAL NOTES

SITE CONSTRUCTION NOTES:

- A. REFER TO CIVIL PLANS FOR EXACT ROUTING CONNECTIONS AND EXACT INFORMATION. THIS PLAN IS PROVIDED FOR GUIDE ONLY.
- B.



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Key Plan



Description	Date
50% Construction Documents	11/06/20

Project

Storm King
Art Center
Pond Pavilion

Seal

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Drawing Title
Site Plan - Property -
Electrical Power

Date	11/06/20
Scale	1" = 100'-0"
Drawing Number	E-P-900
Sheet Size	ARCH D



GENERAL NOTES

DESIGN DEVELOPMENT NOTES:

- A. PROVIDE AND INSTALL LOW VOLTAGE DIMMING WIRING FOR ALL CONTROL ZONES CONNECTED TO LIGHTING CONTROL SYSTEM INCLUDING SWITCHED-ONLY ZONES.
- B. FLOOR PLANS ARE DIAGRAMMATIC TO REPRESENT REQUIRED OCCUPANCY SENSORS AND SWITCHES TO ACHIEVE CONTROL INTENT. LIGHTING CONTROL PANELS, POWER PACKS, POWER SUPPLIES, WIRELESS RECEIVERS, INTERFACES, ETC. ARE NOT EXPLICITLY SHOWN ON FLOOR PLANS. PROVIDE ALL DEVICES AND ACCESSORIES FOR A COMPLETE SYSTEM TO ACHIEVE DESIGN INTENT. REFER TO LIGHTING CONTROL DETAILS FOR FURTHER INFORMATION.
- C. WHEN NORMAL POWER IS AVAILABLE, LIGHT FIXTURES ON EMERGENCY POWER SHALL BE CONTROLLED WITH LIGHTING FIXTURES ON NORMAL POWER IN THE SAME ZONE. IN THE EVENT OF A POWER OUTAGE, EMERGENCY BYPASS RELAY SHALL OVERRIDE NORMAL CONTROL AND SWITCH FIXTURES ON EMERGENCY POWER TO FULL BRIGHTNESS. FIXTURES DESIGNATED 'EM' ON THE LIGHTING CONTROL SYSTEM SHALL BE CONNECTED TO BATTERY INVERTER. REFER TO LIGHTING CONTROL DETAILS.

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Key Plan

N

Description

Date

50% Construction Documents

11/06/20

Project

Storm King
Art Center
Pond Pavilion

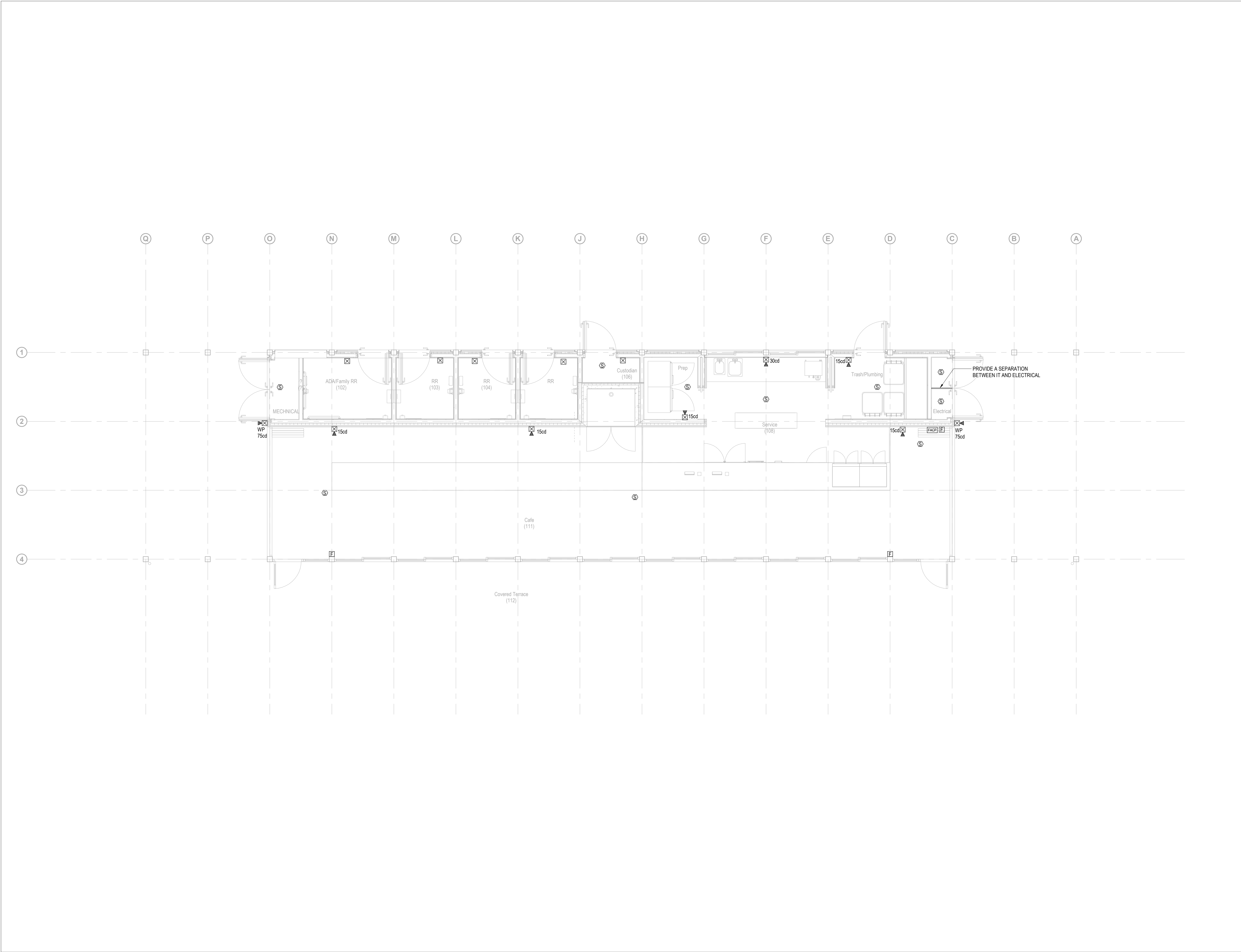
Seal

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Drawing Title

Site Plan - Building -
Lighting

Date	11/06/20
Scale	1/16" = 1'-0"
Drawing Number	E-P-911
Sheet Size	ARCH D



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Key Plan



Description	Date
50% Construction Documents	11/06/20

Project

Storm King Art Center Pond Pavilion

Seal

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Drawing Title

Fire Alarm Plan - Ground Level

Date	11/06/20
Scale	1/4" = 1'-0"
Drawing Number	FA-P-101
Sheet Size	ARCH D

GENERAL NOTES	
1.	PROVIDE ELECTRICAL METALLIC TUBING (EMT) SLEEVES WITH INSULATED BUSHINGS ON EACH END FOR ALL CABLES PASSING THROUGH WALLS AND FLOORS. ALL PENETRATIONS SHALL BE FIRESTOPPED BY ELECTRICAL CONTRACTOR. ALL PENETRATIONS THROUGH RATED WALLS SHALL BE FIRESTOPPED. SEAL AROUND OUTSIDE OF CONDUITS AND SEAL INSIDE OF CONDUIT SLEEVES AS REGISTERED BY APPLICABLE CODES AND STANDARDS. APPLY SEALS AFTER WIRE/CABLE INSTALLATION.
2.	DO NOT ROUTE CONDUITS CONCEALED IN ABOVE GRADE SLABS. CONDUITS SHALL BE ROUTED EXPOSED AND SECURED TO THE SLAB AND STUBBED THROUGH TO THE EQUIPMENT BEING SERVED.
3.	CONDUIT AND BOX LABELS SHALL BE HEAVY-DUTY PRE-PRINTED LAMINATED LABELS SUITABLE FOR THE ENVIRONMENT THE LABEL WILL RESIDE WITHIN. HAND-WRITTEN LABELS SHALL NOT BE PERMITTED.
4.	CONTRACTOR SHALL INSTALL AND MOUNT ALL EQUIPMENT CABINETS AND RACKS PER MANUFACTURERS AND SEISMIC REQUIREMENTS.
5.	ALL EXPOSED CONDUIT, BOXES, SUPPORTING HARDWARE, ETC. LOCATED IN FINISHED AREAS SHALL BE PAINTED TO MATCH. COORDINATE FINISH WITH ARCHITECT.
6.	PROVIDE ACCESS PANEL IN CONCEALED CEILINGS FOR ACCESS TO ELECTRICAL MATERIAL AND EQUIPMENT. COORDINATE ACCESS PANEL LOCATIONS WITH ARCHITECT AND OTHER TRADES PRIOR TO INSTALLATION.
7.	REFER TO T-SERIES SHEETS FOR OUTLET BOX LOCATIONS. REFER TO S-SERIES DRAWINGS FOR CCTV CAMERA LOCATIONS THAT REQUIRE STRUCTURED CABLING INFRASTRUCTURE.
8.	ALL LOW VOLTAGE OUTLETS SHALL BE COORDINATED WITH ARCHITECT.
9.	COORDINATE CONDUIT LOCATIONS (VERTICALLY & HORIZONTALLY) OUTSIDE THE TELECOM ROOM WITH CABLE TRAY/LADDER RACK LOCATIONS INSIDE THE TELECOM ROOM.
10.	ELECTRICAL SCOPE: CONTRACTOR SHALL FURNISH AND INSTALL CONDUITS/RISER, CABLE TRAYS, JUNCTION BOXES, AND OUTLET BOXES.
11.	TELECOM SCOPE: CONTRACTOR SHALL FURNISH AND INSTALL STRUCTURED CABLES, JACKS, RACKS, EQUIPMENT, CABINETS, TERMINATION AND TESTING PER EIA STANDARDS. PROVIDE 20' SLACK AT WIRELESS ACCESS POINT TO RELOCATE FINAL LOCATION BASED ON SITE CONDITIONS.

CONDUIT FILL GUIDE											
NUMBER OF CABLES AT 40% CONDUIT FILL BASED ON TRADE SIZE OF CONDUIT.											
CABLE	TYPE	O.D.	0.75"	1"	1.25"	1.5"	2"	2.5"	3"	3.5"	4"
CAT6A	4 PAIR UTP	0.295	2	4	7	10	18	28	41	56	73
CAT6E	4 PAIR UTP	0.244	3	6	10	15	27	42	60	82	107
CAT6e	4 PAIR UTP	0.228	4	7	12	17	30	48	69	94	123
CAT6	4 PAIR F/UTP	0.255	3	6	9	14	24	38	55	75	98
CAT6	4 PAIR UTP	0.208	5	9	14	21	37	57	83	113	148
CAT5E	4 PAIR UTP	0.190	6	11	17	25	44	69	99	135	177
CAT5E	4 PAIR F/UTP	0.224	4	8	12	18	32	50	71	97	127
CAT5e	4 PAIR UTP	0.180	7	12	19	27	49	77	111	151	197
CAT5e	4 PAIR F/UTP	0.218	4	8	13	19	33	52	75	103	134
CAT5e	25 PAIR UTP	0.430	1	2	3	5	8	13	19	26	34
CAT5e	25 PAIR F/UTP	0.472	1	1	2	4	7	11	16	22	28
CAT5	4 PAIR UTP	0.180	7	12	19	27	49	77	111	151	197
CAT5	4 PAIR F/UTP	0.230	4	7	12	17	30	47	68	92	121
CAT5	25 PAIR UTP	0.430	1	2	3	5	8	13	19	26	34
CAT5	25 PAIR F/UTP	0.472	1	1	2	4	7	11	16	22	28

CABLE TRAY FILL GUIDE						
CABLE TRAY HEIGHT X WIDTH	CAT 5e FILL RATIO AT:	CAT 6 FILL RATIO AT:	CAT 6A FILL RATIO AT:			
	25%	40%	25%	40%	25%	40%
2" X 4"	33	52	21	34	15	23
2" X 6"	49	79	32	50	22	35
2" X 8"	66	106	42	68	29	47
2" X 12"	99	158	63	101	44	70
2" X 16"	133	213	85	136	59	94
2" X 18"	150	239	96	153	67	106
2" X 20"	166	266	107	170	74	118
2" X 24"	200	320	128	204	89	142
4" X 4"	62	21	40	64	28	44
4" X 6"	94	150	60	96	42	67
4" X 8"	126	201	81	129	56	90
4" X 12"	188	300	120	192	84	134
4" X 16"	253	405	162	259	113	180
4" X 18"	285	456	182	292	127	202
4" X 20"	317	507	203	324	141	225
4" X 24"	381	609	244	390	169	270
6" X 8"	189	302	121	193	84	134
6" X 12"	282	451	180	288	125	200
6" X 16"	380	607	243	389	169	270
6" X 18"	427	684	274	438	190	304
6" X 20"	475	760	304	486	211	338
6" X 24"	571	913	365	584	254	406

GENERAL SYMBOLS	
SYMBOL	DESCRIPTION
	KEYNOTE IDENTIFIER X - KEYNOTE NUMBER
	REVISION CHANGE X - DELTA NUMBER
	DETAIL/ENLARGED PLAN CALLOUT X - DETAIL/REFERENCE# TXXX - SHEET #
	SECTION IDENTIFIER X - SECTION # TXXX - SHEET #

CONDUIT AND CABLE TRAY	
	CONDUIT CONCEALED IN CEILING OR WALL.
	CONDUIT CONCEALED UNDER FLOOR OR UNDERGROUND
	CONDUIT TURNING UP
	CONDUIT TURNING DOWN
	CONDUIT STUB WITH CAP
	CABLE SUPPORT BOX CSB
	TELECOM CABLE TRAY. REFER TO T-SERIES SHEETS FOR SIZE. UON. COORDINATE LOCATION WITH DUCTWORK, PLUMBING, FIRE PROTECTION, ELECTRICAL, AND LIGHT FIXTURES.

TELECOM AND SECURITY DEVICES	
	WALL MOUNTED SINGLE TELECOM OUTLET AT 48" AFF UON. PROVIDE A SS BACKBOX WITH SINGLE GANG MUD RING. PROVIDE (1) CAT6A IN 1-1/4" CONDUIT TO NEAREST CABLE TRAY OR RUN DIRECT TO TELECOM ROOM. PROVIDE NON-METALLIC BUSHING ON END OF CONDUIT. IP = IP PHONE INT = INTERCOM
	WALL MOUNTED SINGLE TELECOM OUTLET AT 18" AFF UON. - REFER TO ELECTRICAL FOR BOX TYPE. PROVIDE (2) CAT6A IN 1-1/4" CONDUIT TO NEAREST CABLE TRAY OR RUN DIRECT TO TELECOM ROOM. PROVIDE NON-METALLIC BUSHING ON END OF CONDUIT. BMS = CONNECTION FOR BUILDING MANAGEMENT SYSTEM SM = CONNECTION FOR SMART METER
	WALL MOUNTED DUPLEX TELECOM OUTLET AT 18" AFF UON. - REFER TO ELECTRICAL FOR BOX TYPE. PROVIDE (2) CAT6A IN 1-1/4" CONDUIT TO NEAREST CABLE TRAY OR RUN DIRECT TO TELECOM ROOM. PROVIDE NON-METALLIC BUSHING ON END OF CONDUIT.
	AS ABOVE, WHERE # = NUMBER OF PORTS (3, 5, ETC.) FA = ANALOG LINE FOR FIRE ALARM AV = OUTLET DEDICATED FOR AV WP = WEATHERPROOF OUTLET
	WIRELESS ACCESS POINT WITH SS BACK BOX ABOVE CEILING. PROVIDE (2) CAT6A IN 1-1/4" CONDUIT TO NEAREST TELECOM ROOM. CONTRACTOR SHALL COORDINATE MOUNTING OPTIONS WITH ARCHITECT
	MULTI-SERVICE FLOOR BOX/CAST - REFER TO ELECTRICAL AND AV PLANS FOR FLOOR BOX TYPE. PROVIDE ONE (4) DATA PORT, UNLESS OTHERWISE NOTED ON PLANS. VIA CAT6A IN 1-1/4" CONDUIT TO NEAREST TELECOM ROOM. # = NUMBER OF PORTS
	JUNCTION BOX/FLOOR FEED BOX - AV AND TELECOM MAY BE COMBINED IN SAME BOX. PROVIDE METALLIC BARRIER WHEN POWER CIRCUITS ARE FED BY BOX. COORDINATE WITH ELECTRICAL AND AV.
	CCTV CAMERA. TELECOM CONTRACTOR SHALL PROVIDE (1) CAT6A CABLE IN 1-1/4" CONDUIT TO NEAREST CABLE TRAY OR RUN DIRECT TO TELECOM ROOM. TELECOM CONTRACTOR TO TERMINATE CABLE IN BISCUIT JACK AT CCTV CAMERA LOCATION. FINAL CONNECTION TO BE MADE BY SECURITY CONTRACTOR.
	AXIS F44 MAIN UNIT. TELECOM CONTRACTOR SHALL PROVIDE (1) CAT6A CABLE IN 1-1/4" CONDUIT TO NEAREST CABLE TRAY OR RUN DIRECT TO TELECOM ROOM. TELECOM CONTRACTOR TO COORDINATE FINAL LOCATION OF AXIS F44 MAIN UNIT FOR FINAL CABLE TERMINATION.

ELECTRICAL AND LOW VOLTAGE SYSTEMS DIVISION OF WORK									
SYSTEM	RISER CONDUIT	CABLE TRAYS	OUTLET BOXES	DEVICES	WIRING	STRUCTURED CABLING	RJ-45 JACKS	SPECIAL TERMINATIONS	WALL PLATES
ELECTRICAL	DIV 26	DIV 26	DIV 26	DIV 26	DIV 26	NA	NA	NA	DIV 26
FIRE ALARM	DIV 26	DIV 26	DIV 26	DIV 26	DIV 26	DIV 27/IT	DIV 26	NA	DIV 26
IT	DIV 26 *	DIV 26 *	DIV 26 *	NA	NA	DIV 27/IT	DIV 27/IT	NA	DIV 27/IT
SECURITY	DIV 26 *	DIV 26 *	DIV 26	DIV 28	DIV 28	DIV 27/IT	DIV 27/IT	DIV 28/SEC	DIV 27/IT
AV	DIV 26 ***	DIV 26 *	DIV 26 *	DIV 27/AV	DIV 27/AV	DIV 27/IT	DIV 27/IT	DIV 27/AV	DIV 27/IT
BMS	DIV 25/CONTROLS	DIV 25/CONTROLS	DIV 25/CONTROLS	DIV 25/CONTROLS	DIV 25/CONTROLS	DIV 27/IT	DIV 27/IT	DIV 25/BMS	DIV 27/IT

ABBREVIATIONS

- ELECTRICAL CONTRACTOR
- INFORMATION TECHNOLOGY CONTRACTOR
- SECURITY CONTRACTOR
- AUDIO VISUAL CONTRACTOR
- BUILDING MANAGEMENT CONTRACTOR

EC - REFER TO T-SERIES DRAWINGS
IT - REFER TO S-SERIES DRAWINGS
SEC - REFER TO AV-SERIES DRAWINGS
AV
BMS

TELECOMMUNICATIONS ABBREVIATIONS			
A	ACCESS CONTROL SYSTEM USE	LS	LOUDSPEAKER
AC	ALTERNATING CURRENT	LTG	LIGHTING
AFF	ABOVE FINISHED FLOOR	MA	MILLIAMPS
AFG	ABOVE FINISHED GRADE	MAX	MAXIMUM
AIR COND	AIR CONDITIONING	MDF	MAIN DISTRIBUTION FRAME
ARCH	ARCHITECTURAL	MECH	MECHANICAL/ELECTRICAL/PLUMBING
AV	AUDIOVISUAL	MIC	MICROPHONE
AVG	AVERAGE	MIN	MINIMUM
AWG	AMERICAN WIRE GAUGE	MISC	MISCELLANEOUS
BL	BLANK	MTD	MOUNTED
BLDG.	BUILDING	NA	NOT APPLICABLE
B.O.	BY OTHERS	NEC	NATIONAL ELECTRICAL CODE
C	CENTER LINE	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
CATV	CABLE TELEVISION	NO	NUMBER
CCTV	CLOSED CIRCUIT TELEVISION	NTS	NOT TO SCALE
CKT	CIRCUIT	OD	OUTSIDE DIAMETER
CLG	CEILING	PB	PULL BOX
CLOS	CLOSET	PBX	PRIVATE BRANCH EXCHANGE
CM	CIRCUIT MIL	PCU	POWER CONDITIONING UNIT
COAX	COAXIAL CABLE	PDU	POWER DISTRIBUTION UNIT
COL	COLUMN	PG	PAGING
CONC	CONCRETE	PH	PHASE
COND	CONDUIT	PLB	PLUMBING
CONST	CONSTRUCTION	PNL	PANEL
CONT	CONTINUOUS	PSU	POWER SUPPLY UNIT
CONV	CONVENIENCE	PWR	POWER
DC	DIRECT CURRENT	RDP	RESIDENTIAL DISTRIBUTION PANEL
DIA	DIAMETER	RCP	REFLECTED CEILING PLAN
DN	DOWN	RECP	RECEPTACLE
DTL	DETAIL	REQ	REQUIRED
DSS	DISH SATELLITE SYSTEM	RMS	RACK MOUNTED SPACES
DWG	DRAWING	S	SECURITY
EA	EACH	SEC	SECURITY
EMT	ELECTRO MECHANICAL TUBING	SEP	SEPARATE
E.C.	ELECTRICAL CONTRACTOR	SPECS	SPECIFICATIONS
EIA/ITIA	ELECTRONIC INDUSTRIES ASSOCIATION	SPKLR	SPRINKLER
EL	ELEVATION	SPKR	SPEAKER
ELEC	ELECTRIC	STA	STATION
ELEV	ELEVATOR	STD	STANDARD
EM	EMERGENCY USE DESIGNATION	STP	SHIELDING TWISTED PAIR
EQ	EQUAL	SURF	SURFACE
EQUIP	EQUIPMENT	SYM	SYMMETRICAL
EXIST	EXISTING	TBD	TO BE DETERMINED
F	FLOOR	TEL	TELEPHONE
FA	FIRE ALARM	TERM	TERMINATION
F&I	FURNISH & INSTALL	TELCO	TELEPHONE COMPANY
FIN	FINISH	TV	TELEVISION
F.O.	FIBER OPTIC	TYP	TYPICAL
FT	FEET	UFD	UNDER FLOOR DUCT
GA	GAUGE	UON	UNLESS OTHERWISE NOTED
G.C.	GENERAL CONTRACTOR	UPS	UNINTERRUPTIBLE POWER SUPPLY
GD	GROUND	UTP	UNSHIELDED TWISTED PAIR
HGT	HEIGHT	V	VOLTS
HOR	HORIZONTAL	VA	VOLT-AMPERES
HVAC	HEATING DISTRIBUTION FRAME	VENT	VENTILATING
IOIP	INTERCOM OVER INTERNET PROTOCOL (IP)	VERT	VERTICAL
IDF	INTERMEDIATE DISTRIBUTION FRAME	VIF	VERIFY IN FIELD
IN	INCHES	W	WATTS
INT	INTERCOM	WI	WITH
ISP	INTERNET SERVICE PROVIDER	W/O	WITHOUT
JBOX	JUNCTION BOX	WKSTA	WORKSTATION

MATRIX OF RESPONSIBILITY	WIFI - SCOPE
BURO HAPPOLD	DESKTOP MODELING AND LOCATION OF CONNECTION POINTS
TELECOM CONTRACTOR	INSTALLATION OF TELECOM CABLES, COORDINATING EXACT LOCATIONS BASED ON FIELD CONDITION
CLIENT	INSTALLATION OF ACTIVE EQUIPMENT

ELECTRICAL NOTES FOR TELECOM	
1.	ALL ELECTRICAL RECEPTACLES, GROUND BARS, CONDUITS, FLOOR BOXES, RACEWAYS, STEEL STRUT, AND SLEEVES ARE TO BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AS OUTLINED BELOW.
2.	PULL-BOXES FOR COMMUNICATIONS SYSTEMS SHALL BE PROVIDED WHERE THE COMBINED SUM OF THE BENDS EXCEEDS 180 DEGREES.
3.	THE BEND RADIUS FOR COMMUNICATIONS CONDUITS SHALL BE 10 TIMES THE INSIDE DIAMETER OF THE CONDUITS. FOR CONDUITS GREATER THAN 2" IN DIAMETER.
4.	CONDUIT RUNS FOR COMMUNICATIONS CABLING SHALL NOT EXCEED 90 FEET WITHOUT A PULL-BOX.
5.	JUNCTION BOXES FOR COMMUNICATIONS CABLING SHALL HAVE TAMPER-PROOF SCREWS.
6.	INCLUDE ALL REQUIRED JUNCTION AND PULL-BOXES REGARDLESS OF QUANTITIES INDICATED ON THE DRAWINGS.
7.	ALL EMPTY CONDUITS ARE TO BE PROVIDED WITH A MINIMUM OF (2) NYLON DRAG LINES OR PULL STRINGS, AND FITTED WITH BUSHED ENDS.
8.	PROVIDE PULL-BOXES ON ALL VERTICAL RISER CONDUIT RUNS REGARDLESS OF THE DRAWING INTERVALS, NO GREATER THAN 50FT. PULL-BOX AND JUNCTION-BOX SIZES ARE SHOWN FOR COORDINATION PURPOSES ONLY. ELECTRICAL CONTRACTOR TO SIZE PULL-BOXES AND JUNCTION-BOXES IN ACCORDANCE WITH FIELD CONDITIONS, AND EQUIPMENT STANDARDS.
9.	ALL CABLE TRAY, LADDER RACKS, AND STEEL STRUTS SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
10.	REGARDLESS OF THEIR REPRESENTATION ON THE FLOOR PLANS, SLEEVES (EZPATH OR EQUIV.) SHALL BE PROVIDED AT ALL LOCATIONS WHERE CABLE PASSES THROUGH FIRE-RATED WALLS OR FLOORS. EXACT LOCATIONS SHALL BE COORDINATED BETWEEN THE COMMUNICATIONS CABLING CONTRACTOR AND THE ELECTRICAL CONTRACTOR. OPENING SIZES SHALL BE NO LESS THAN 1.5 TIMES THE CABLE CROSS SECTION PASSING THROUGH THE OPENING.
11.	ELECTRICAL CONTRACTOR TO COORDINATE CABLE TRAY, LADDER RACKS, AND/OR STEEL STRUT SUPPORT SYSTEM LOCATIONS WITH COMMUNICATIONS CABLING CONTRACTOR.
12.	COORDINATE CONDUIT LOCATIONS (VERTICALLY & HORIZONTALLY) OUTSIDE THE TELECOM ROOM WITH CABLE TRAY/LADDER RACK LOCATIONS INSIDE THE TELECOM ROOM.
13.	DEDICATED ELECTRICAL CIRCUITS SHALL BE PROVIDED FOR EACH COMMUNICATIONS CABINET OR RACK AS NOTED ON THE TELECOM ROOM DRAWING.
14.	ALL VOICE/DATA INFORMATION OUTLET BOXES SHALL BE 4 11/16" x 4 11/16" x 2 1/8" DEEP W/ 1/2" DEEP SINGLE GANG ADJUSTABLE MUD RING AND 1-1/4" CONDUIT TO NEAREST ACCESSIBLE CEILING UNLESS OTHERWISE NOTED.
15.	CONDUITS USED TO FEED COMMUNICATIONS WORKSTATIONS IN INACCESSIBLE CEILING AREAS SHALL BE EXTENDED TO NEAREST ACCESSIBLE CEILING AREA.
16.	FLOOR BOXES SHALL HAVE ONE (1) 1-1/4" CONDUIT EXTENDED TO ACCESSIBLE CEILING FOR COMMUNICATIONS CABLING. ADDITIONAL CONDUITS MAY BE REQUIRED TO SUPPORT AV OR OTHER SYSTEMS CABLING AND ARE NOTED ON THE FLOOR PLANS.
17.	ALL EXTERNAL COMMUNICATIONS OUTLETS ARE TO BE INSTALLED IN A WEATHERPROOF ELECTRICAL BOX WITH A WEATHERPROOF WHILE-IN-USE COVER. CONDUIT BY ELECTRICAL CONTRACTOR FOR ALL EXTERIOR LOCATIONS TO NEAREST IDF LOCATION.

MDF/IDF NOTES	
1.	ALL COORDINATION IN THE CEILING OF THE TELECOM ROOM SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
2.	TELECOM ROOM SHALL BE PROVIDED WITH EXPOSED CEILINGS UNLESS OTHERWISE NOTED.
3.	ANY EXPOSED FIREPROOFING WITHIN TELECOM ROOM SHALL BE SEALED TO REDUCE DUST FROM DISLODGED MATERIAL.
4.	CABLE LADDER SHALL BE USED TO SUPPORT CABLES WITHIN THE TELECOM ROOM. LADDER SIZE SHALL BE AS INDICATED ON FLOOR/PART PLANS OR BASED UPON CABLING FILL REQUIREMENTS.
5.	CABLES ROUTED ON CABLE LADDER (VERTICAL OR HORIZONTAL) SHALL BE SECURED TO TRAY OR LADDER WITH REUSABLE VELCRO-BASED CABLE WRAPS EVERY RUNG.
6.	VERTICAL CABLE LADDER SHALL BE USED AT WALLS TO SUPPORT VERTICAL CABLE TRANSITIONS WITHIN THE TELECOM ROOM.
7.	A MINIMUM OF 6" CLEARANCE SHALL BE MAINTAINED ABOVE AND BELOW THE HORIZONTAL CABLE LADDER. LADDER ABOVE ALL RACKS TO ALL WALLS IN MDF LOCATIONS. ELECTRICALLY BOND AS REQUIRED.
8.	TELECOM ROOM WALLS SHALL BE CONTINUOUS FROM SLAB (FLOOR) TO SLAB (CEILING) WITH ALL THROUGH - WALL PENETRATIONS SEALED.
9.	THE GENERAL CONTRACTOR SHALL SEAL ALL OPENINGS AROUND WALL PENETRATIONS TO MAINTAIN THE INTEGRITY OF CONDITIONED SPACES. ALL WORK PERFORMED SHALL MAINTAIN THE PRESCRIBED FIRE RATING OF THE SPACE.
10.	PLYWOOD FOR WALL FIELDS SHALL BE FIRE-RATED GRADE A - C WITH "A" SIDE FACING OUT.
11.	ALL FLOORING SHALL BE ANTI-STATIC VCT TILE UNLESS OTHERWISE NOTED.
12.	WALL PHONE OUTLETS MECHANICAL AND TELECOM ROOMS SHALL BE MOUNTED AT 54" A.F.F.
13.	ALL RACKS, CABINETS AND CABLE TRAY/LADDER RACKS SHALL BE ELECTRICALLY CONNECTED, VIA #6 AWG GREEN JACKETED WIRE, TO A PRE-DRILLED AND TAPPED GROUND BAR TO BE LOCATED WITHIN THE ROOM. GROUND BAR SHALL BE CADWELD CONNECTED TO BUILDING STEEL BY WAY OF THE LOCAL TELECOMMUNICATIONS GROUNDING BAR. (2) HOLE CRIMP CONNECTORS SHALL BE USED.

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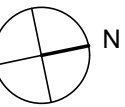
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Key Plan



Description	Date
50% Construction Documents	11/06/20

Project

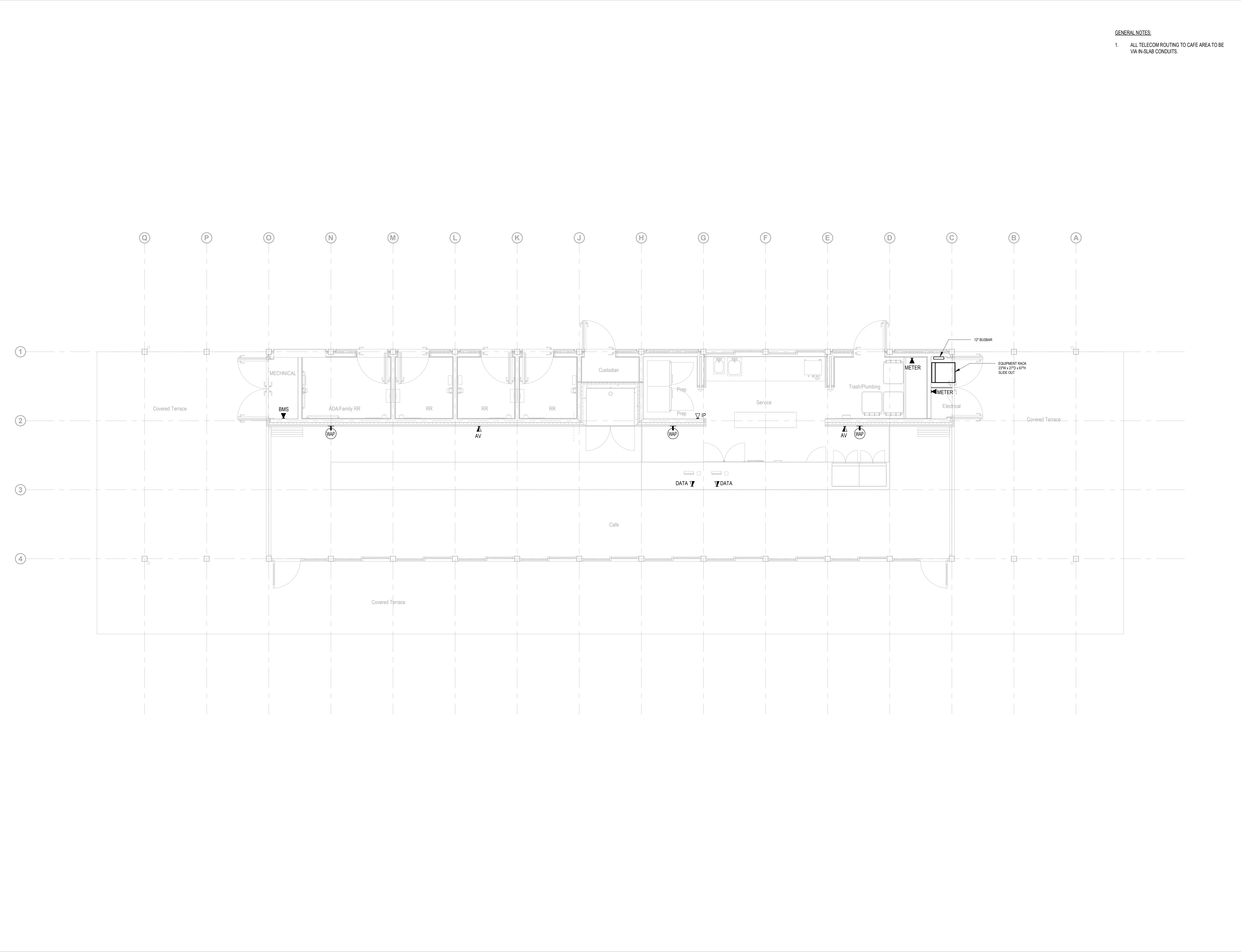
Storm King Art Center Pond Pavilion

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Drawing Title
Abbreviations, Symbols and Legends

Date	11/06/20
Scale	12" = 1'-0"
Drawing Number	IT-P-001
Sheet Size	ARCH D



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Key Plan



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50% Construction Documents	11/06/20

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Storm King Art Center Pond Pavilion

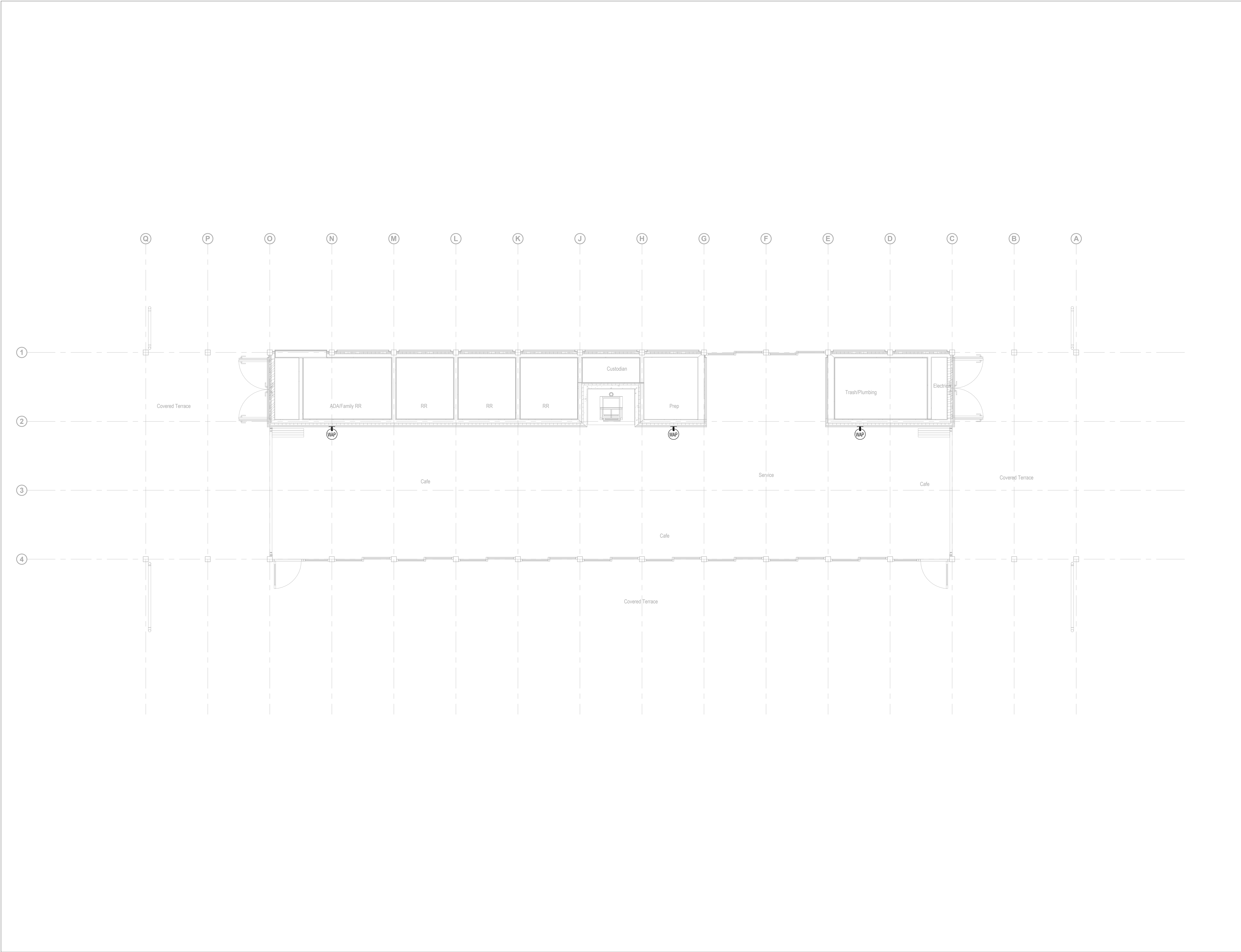
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Drawing Title

Telecom Plan - Ground Level

Date	11/06/20
Scale	1/4" = 1'-0"
Drawing Number	IT-P-101
Sheet Size	ARCH D



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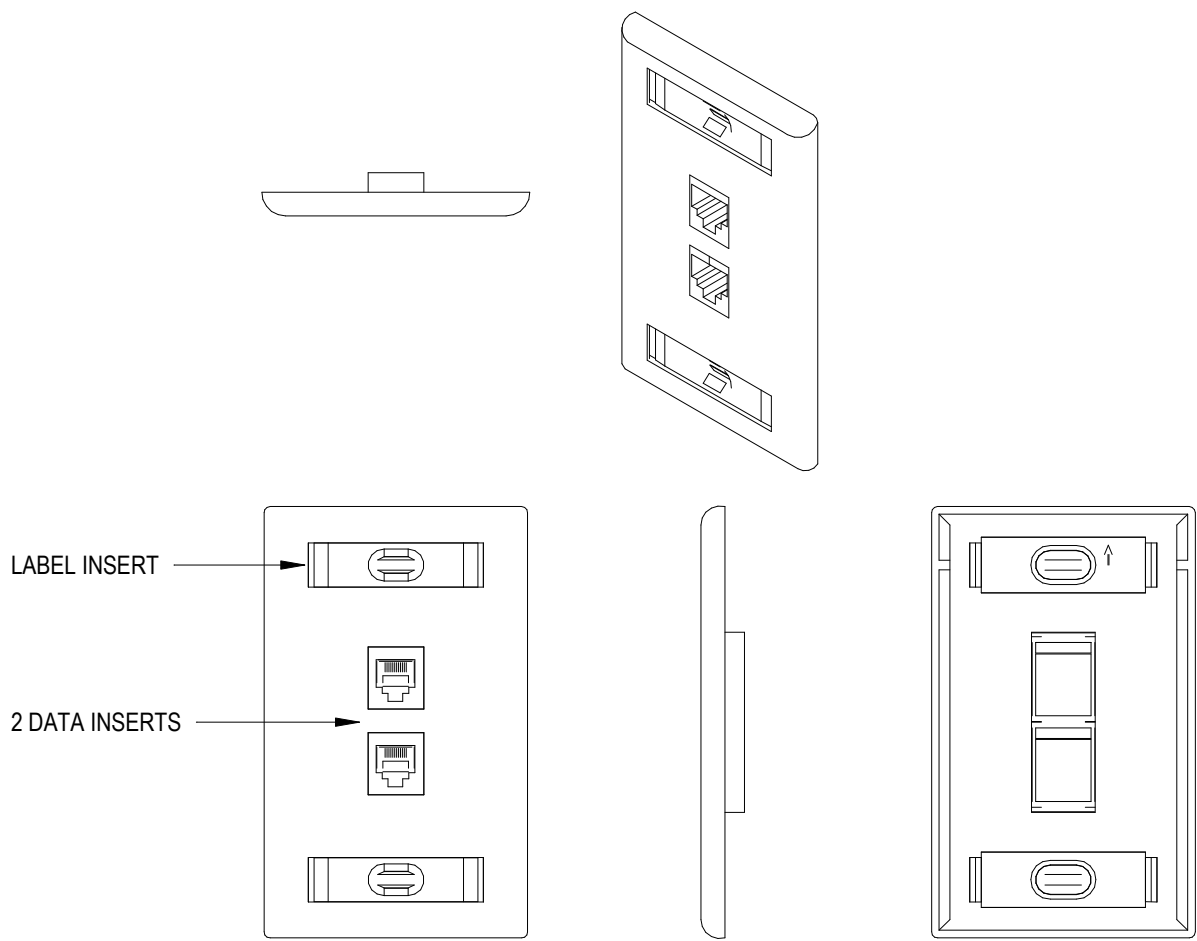
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Storm King Art Center Pond Pavilion

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Drawing Title
Telecom RCP -
Ground Level

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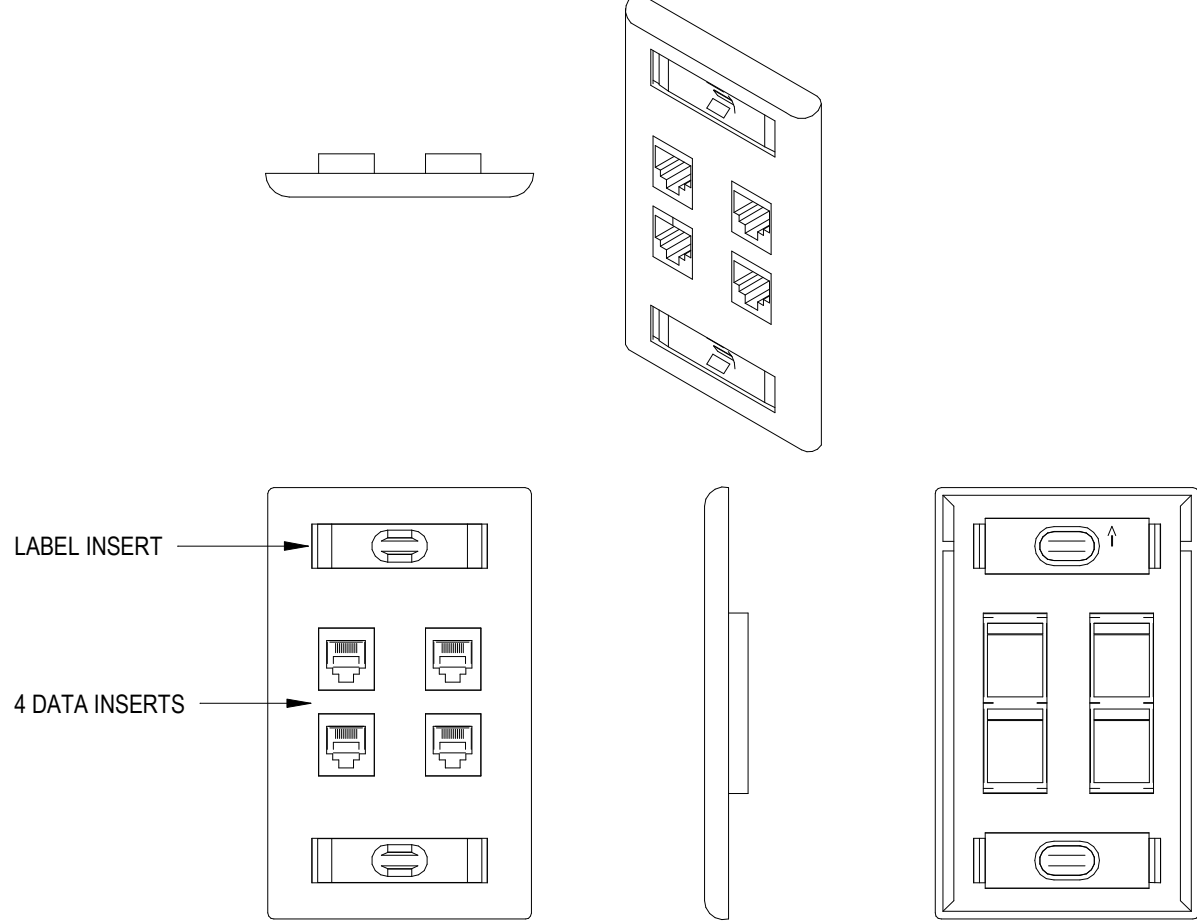


NOTES:

- COORDINATE ALL COLORS AND FINISHES WITH ARCHITECTURAL DRAWINGS
- COORDINATE NAMING CONVENTION WITH CLIENT

1 2 PORT TELECOM OUTLET FACE PLATE

NOT TO SCALE

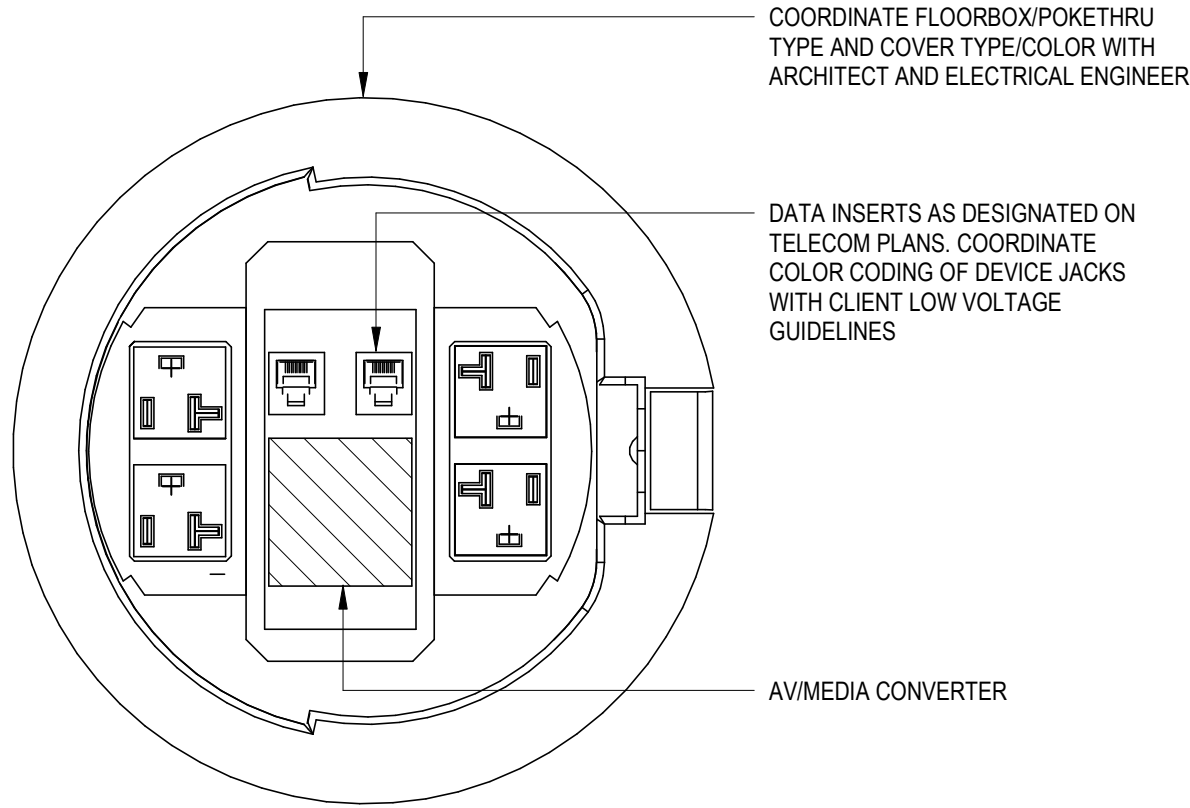


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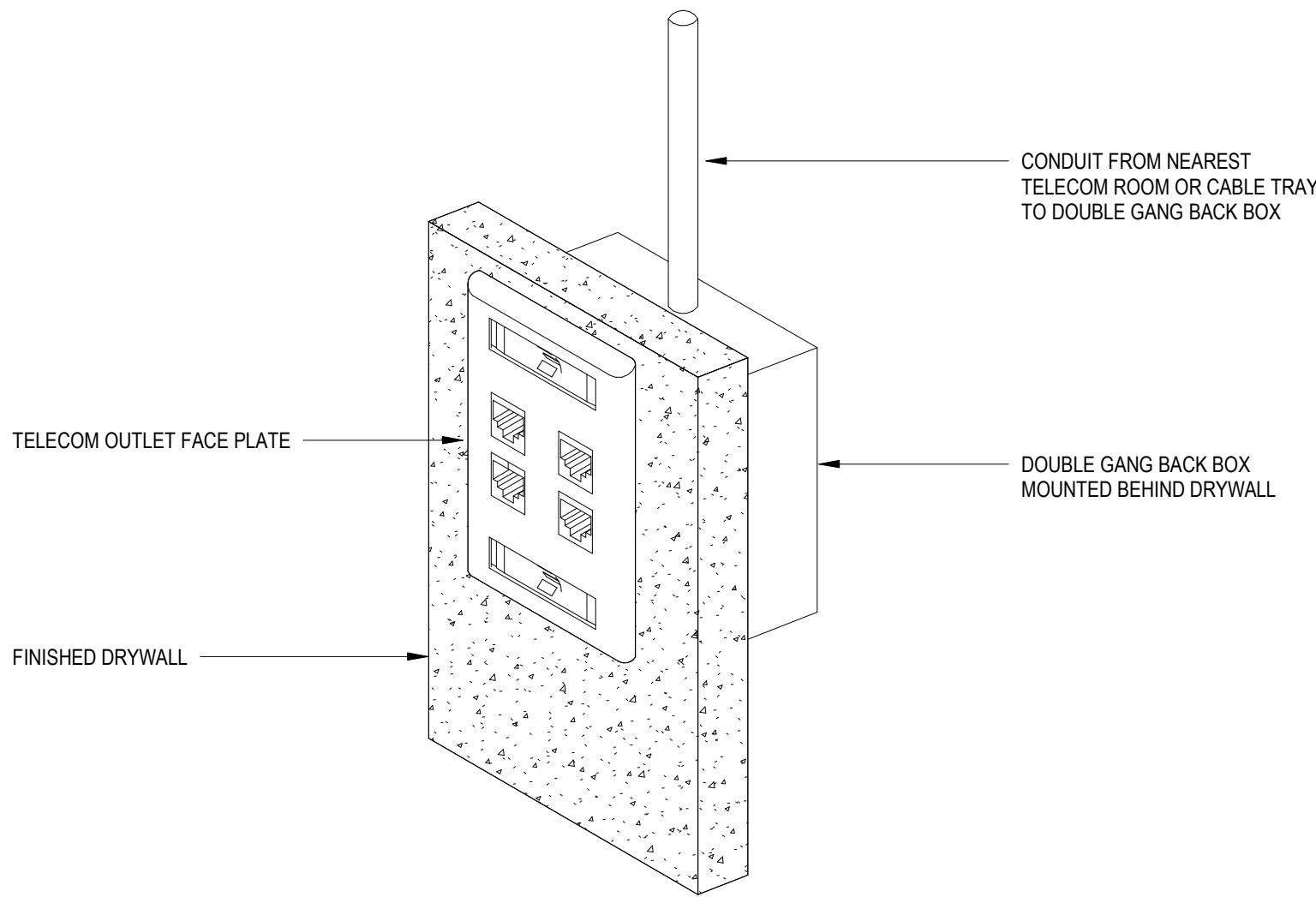
2 4 PORT TELECOM OUTLET FACE PLATE

NOT TO SCALE



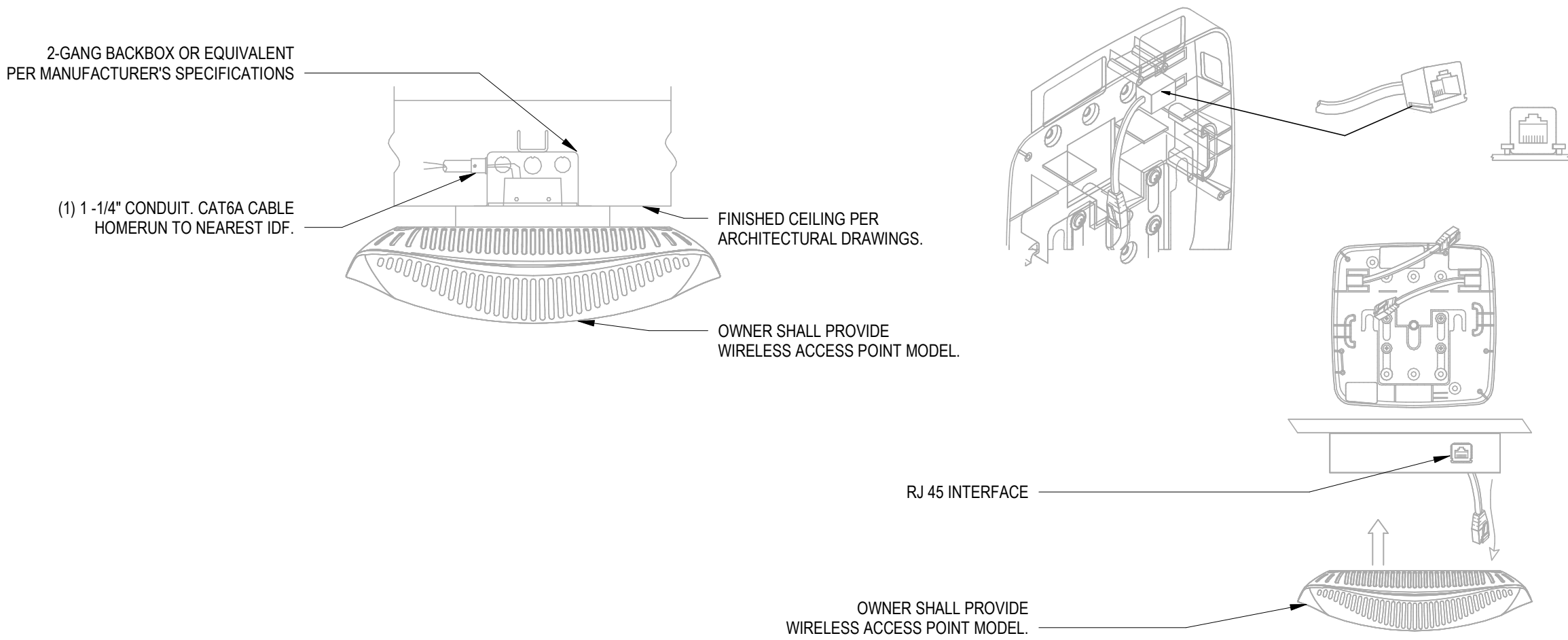
6 FLOOR BOX

NOT TO SCALE



5 DOUBLE GANG BACKBOX FOR TELECOM OUTLET

NOT TO SCALE



NOTES:

- REFER TO SPECIFICATIONS FOR WIRELESS ACCESS POINT MAKE AND MODEL
- INSTALL PER MANUFACTURER RECOMMENDATIONS & COORDINATE FINAL INSTALLATION WITH ARCHITECT

3 CEILING MOUNTED WAP

NOT TO SCALE

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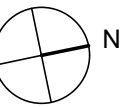
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Storm King Art Center Pond Pavilion

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Drawing Title
Telecom Details

Date	11/06/20
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NY STATE THRUWAY

CONFIRMATION IS REQUIRED FROM VERIZON BUSINESS SERVICES ON THE LOCATION OF VERIZON TELECOM SERVICES ON THE STREET.

OPTION 1.
(1) 4" SCHEDULE 40 PVC CONDUIT WITH (3) 1/4" INNER DUCTS (TYPICAL)

OPTION 2. IF VERIZON SERVICE IS NOT AVAILABLE ON NY STATE THRUWAY.
(1) 4" SCHEDULE 40 PVC CONDUIT WITH (3) 1/4" INNER DUCTS (TYPICAL)

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Storm King Art Center Pond Pavilion

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Drawing Title
Site Plan - Property -
Telecom

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Scale	1" = 100'-0"
Drawing Number	IT-P-900
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