

BUILDING CODE ANALYSIS

THIS WORK IS GOVERNED BY THE NEW JERSEY UNIFORM CONSTRUCTION CODE, NEW JERSEY EDITION OF THE 2021 INTERNATIONAL BUILDING CODE, AND ALL OTHER APPLICABLE SUBCODES AS ADOPTED THEREIN. THIS WORK SHALL QUALIFY AS **NEW CONSTRUCTION** UNDER THE REQUIREMENTS AND DEFINITIONS OF THE NEW JERSEY U.C.C.

INTERNATIONAL BUILDING CODE REVIEW

SECTION 3 USE GROUP:	A-1	THEATERS
	B	CIVIC
	S-1	ADMINISTRATION STORAGE

SECTION 4
STAGES SHALL BE CONSTRUCTED OF MATERIALS FOR THE TYPE OF CONSTRUCTION OF THE BUILDING IN WHICH THEY ARE LOCATED. THE PROVISIONS OF CHAPTER 10 SHALL APPLY. SPRINKLERS ARE NOT REQUIRED FOR STAGES LESS THAN 1,000 SQUARE FEET.

SECTION 5 TOTAL BUILDING AREAS	FLOOR 1:	ENCLOSED
	MECH MEZZ:	2675 SF
	TOTAL:	283 SF
		2958 SF
BUILDING FOOTPRINT:		2675 SF
	BUILDING AREA W/DECKS:	4082 SF
BUILDING HEIGHT:		26 FT 8 IN
	STORIES:	2-STORY
CONSTRUCTION CLASS:		VB

SECTION 6
FIRE RESISTANCE RATING REQUIREMENTS
PRIMARY STRUCTURAL FRAME:
BEARING WALLS

EXTERIOR:	0 HR
	0 HR
INTERIOR:	0 HR

NONBEARING WALLS AND PARTITIONS	0 HR
	0 HR
FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS:	0 HR
ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS:	0 HR

SECTION 7
FIRE WALLS:
VERTICAL SHAFT ENCLOSURES:

3 HR
1 HR

SECTION 8 INTERIOR FINISH CLASSIFICATIONS GROUP	INTERIOR EXIT STAIRWAYS, INTERIOR EXIT RAMPS, AND EXIT PASSAGES	CORRIDORS AND ENCLOSURES FOR EXIT ACCESS STAIRWAYS AND EXIT ACCESS RAMPS	ROOM AND ENCLOSED SPACES
	A	A	B
	B	B	C
A-1	A	C	C
	C		

SECTION 9
PORTABLE FIRE EXTINGUISHERS SHALL BE PROVIDE (2) PER FLOOR

SECTION 10 OCCUPANT LOAD	28
FIRST FLOOR MIN. NUMBER OF EXITS:	2
MINIMUM STAIR WIDTH:	36
EXIT ACCESS TRAVEL DISTANCE:	200
CORRIDOR WIDTH:	36
CORRIDOR FIRE RESISTANCE RATING:	1

SECTION 11
VERTICAL ACCESSIBLE ROUTE IS PROVIDED BY: ACCESSIBLE RAMP
ALL TOILETS AND LAVS SHALL BE PROVIDED AS ACCESSIBLE
PUBLIC SPACES SHALL BE ACCESSIBLE

SECTION 12
MECHANICAL VENTILATION IS PROVIDED IN ACCORDANCE WITH IMC
ALL CEILINGS AREAS SHALL BE MINIMUM: 7'-0"

SECTION 13
REFER TO LIFE SAFETY SECTIONS FOR THERMAL ENVELOPE.

SECTION 14
REFER TO WALL SECTIONS FOR EXTERIOR WALL CONSTRUCTION.

SECTION 15
ALL ROOF AREAS TO BE MINIMUM CLASS 'C'.

SECTION 16 DESIGN LIVE LOADS	REQUIRED	ACTUAL
	ASSEMBLY AREAS (STAGE): 150 PSF BUSINESS/OFFICE: 100 PSF STORAGE AREAS: 250 PSF	150 PSF 100 PSF 250 PSF

RISK CATEGORY:	II
SURFACE ROUGHNESS:	D
EXPOSURE CATEGORY:	D
WIND LOADS:	115 MPH

FLOOD RESISTANT BUILDING SYSTEM NOTES

GENERAL INSTALLATION NOTES FOR EQUIPMENT IN THE FLOOD PLAIN

ALL UTILITIES AND ATTENDANT EQUIPMENT SHALL BE LOCATED MIN. +2 FEET ABOVE THE BASE FLOOD ELEVATION UNLESS SPECIFICALLY NOTED OTHERWISE IN THESE DOCUMENTS. REFER TO THE CODE ANALYSIS SECTION OF THESE DOCUMENTS FOR THE BASE FLOOD ELEVATION FOR THE SITE.

MECHANICAL EQUIPMENT INSTALLATIONS BELOW THE BASE FLOOD ELEVATION

FUEL SUPPLY LINES EXTENDING BELOW THE ELEVATION SPECIFIED BY THE JURISDICTION HAVING AUTHORITY (JHA) SHALL BE EQUIPPED WITH A FLOAT OPERATED AUTOMATIC CONTROL VALVE TO SHUT OFF FUEL SUPPLY WHEN FLOODWATERS RISE ABOVE THE ELEVATION OF THE SUPPLY LINE.

ALL MECHANICAL EQUIPMENT SHALL BE LOCATED AT OR ABOVE THE MINIMUM ELEVATION INDICATED BY THE JHA, BUT IN NO CASE LOCATED LOWER THAN THE BASE FLOOD ELEVATION (BFE)+2.

INSTALLATIONS REQUIRING THE DUCTWORK TO BE INSTALLED BELOW (BFE)+2 SHALL BE PROVIDED WITH MOISTURE RESISTANT INSULATION AND INSTALLED IN A WATER-RESISTANT ENCLOSURE AS DETAILED HEREIN.

ELECTRICAL EQUIPMENT INSTALLATIONS BELOW THE BASE FLOOD ELEVATION

ALL ELECTRICAL SERVICE CABLES, CONDUITS, ETC BELOW THE DESIGN FLOOD ELEVATION SHALL BE WATERPROOFED OF CONFORM TO THE PROVISIONS OF NFPA 70 AND THE NATIONAL ELECTRICAL CODE FOR WET LOCATIONS.

ALL EXPOSED SERVICE CABLES, CONDUITS, ETC. SHALL BE ANCHORED TO WITHSTAND THE FORCES OF FLOOD-RELATED LATERAL LOADS, THE EFFECTS OF BUOYANCY AND/OR HYDROSTATIC FORCES AND/OR THE IMPACTS OF POTENTIAL FLOOD BORNE DEBRIS. ALL SUCH CONDUITS AND CABLES SHALL BE HOUSED IN A WATERPROOF ENCLOSURE.

ALL CONDUITS, ETC. SHALL BE SITUATED SUCH THAT WATER DRAINS AWAY FROM PANELBOARDS, CONTROLLERS, SWITCHES, ETC. IN ACCORDANCE WITH NFPA 70 AND THE NATIONAL ELECTRICAL CODE.

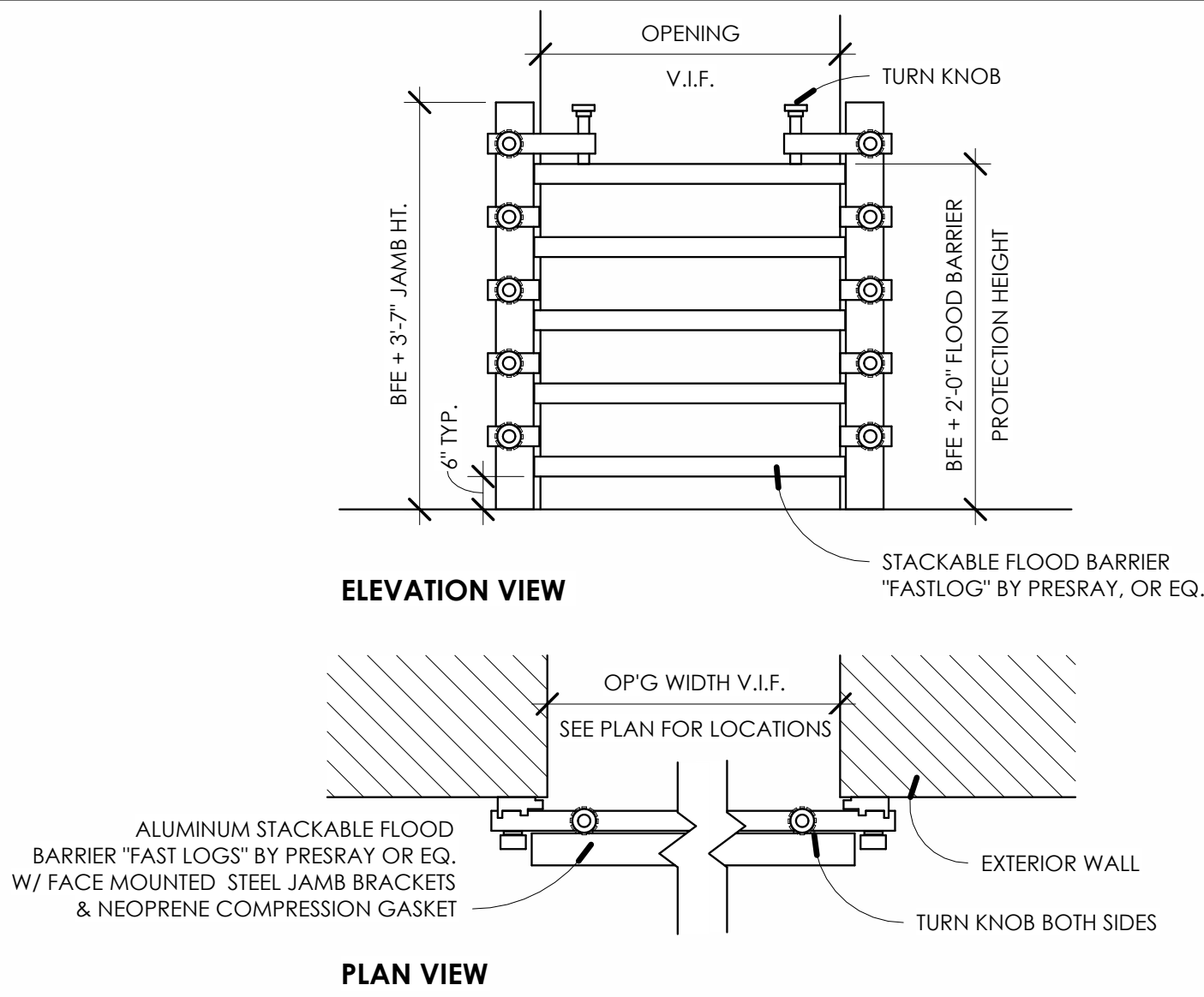
ALL CIRCUITS, SWITCHES, RECEPTACLES, FIXTURES, ETC LOCATED BELOW THE DESIGN FLOOD ELEVATION SHALL BE ENERGIZED FROM A COMMON DISTRIBUTION PANEL, LOCATED ABOVE AND ACCESSIBLE FROM THE DESIGN ELEVATION SPECIFIED.

PLUMBING EQUIPMENT INSTALLATIONS BELOW THE BASE FLOOD ELEVATION

WHERE INSTALLED UNDERGROUND, PLUMBING SYSTEMS SHALL BE BURIED TO A SUFFICIENT DEPTH AND ANCHORED SO AS TO PREVENT MOVEMENT OR SEPARATION. WHEN EXPOSED, SYSTEMS SHALL BE INSTALLED AND ANCHORED TO WITHSTAND THE FORCES OF FLOOD-RELATED LATERAL LOADS, THE EFFECTS OF BUOYANCY AND/OR HYDROSTATIC FORCES AND/OR THE IMPACTS OF POTENTIAL FLOOD BORNE DEBRIS.

WHERE EXISTING CONDITIONS REQUIRE INSTALLATIONS BELOW THE DESIGN FLOOD ELEVATION, SUCH INSTALLATIONS SHALL BE PROTECTED WITH BACKWATER VALVES OR OTHER AUTOMATIC BACKFLOW DEVICES OR EACH LINE WITH OPENINGS BELOW THE DESIGN FLOOD ELEVATION. REDUNDANT DEVICES OR SYSTEMS THAT RELY ON HUMAN INTERVENTION SHALL NOT BE PERMITTED.

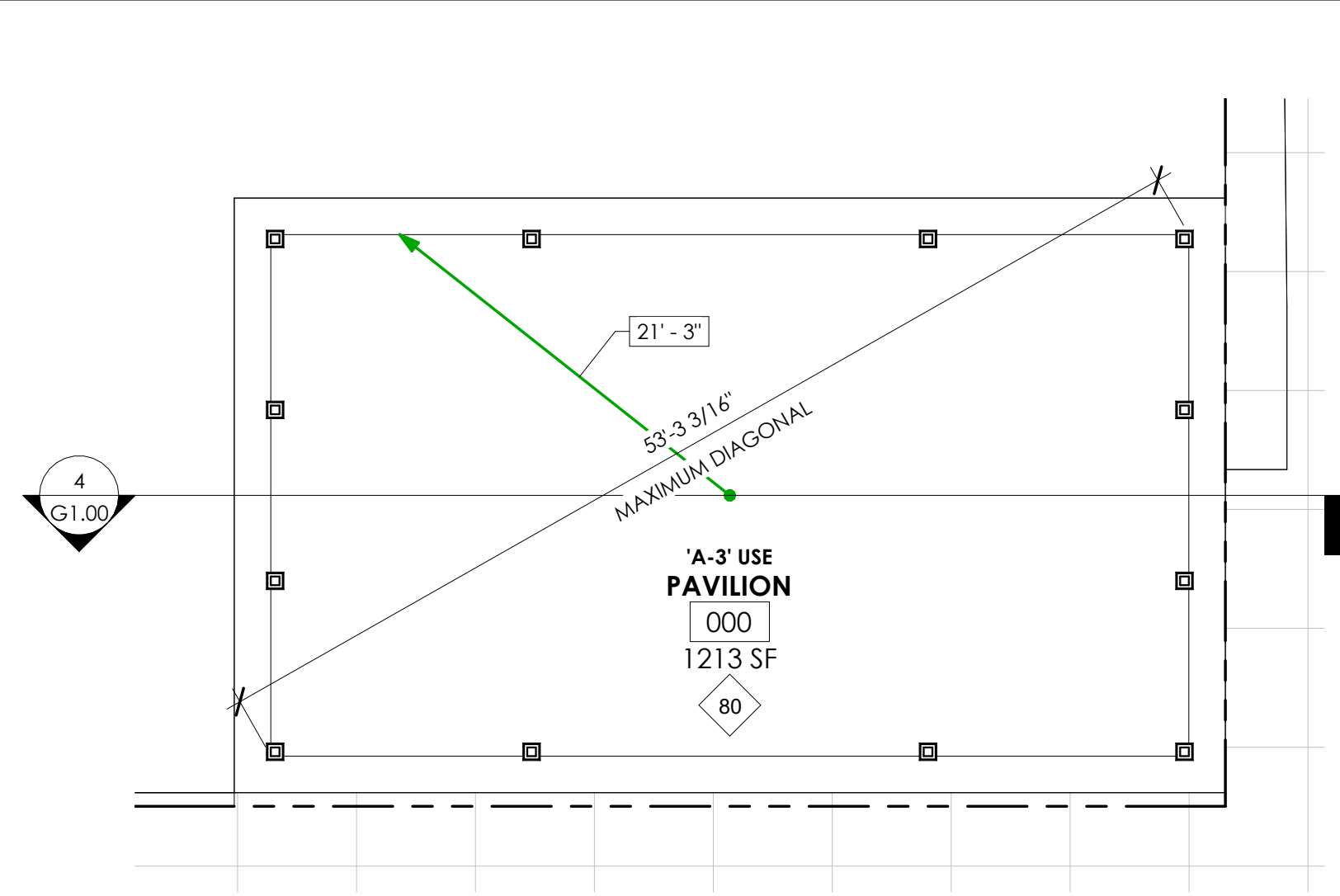
REFER TO EXTERIOR ELEVATIONS ON SHEET A2.11 FOR INFORMATION REGARDING THE MOUNTING HEIGHT OF MECHANICAL AND ELECTRICAL EQUIPMENT



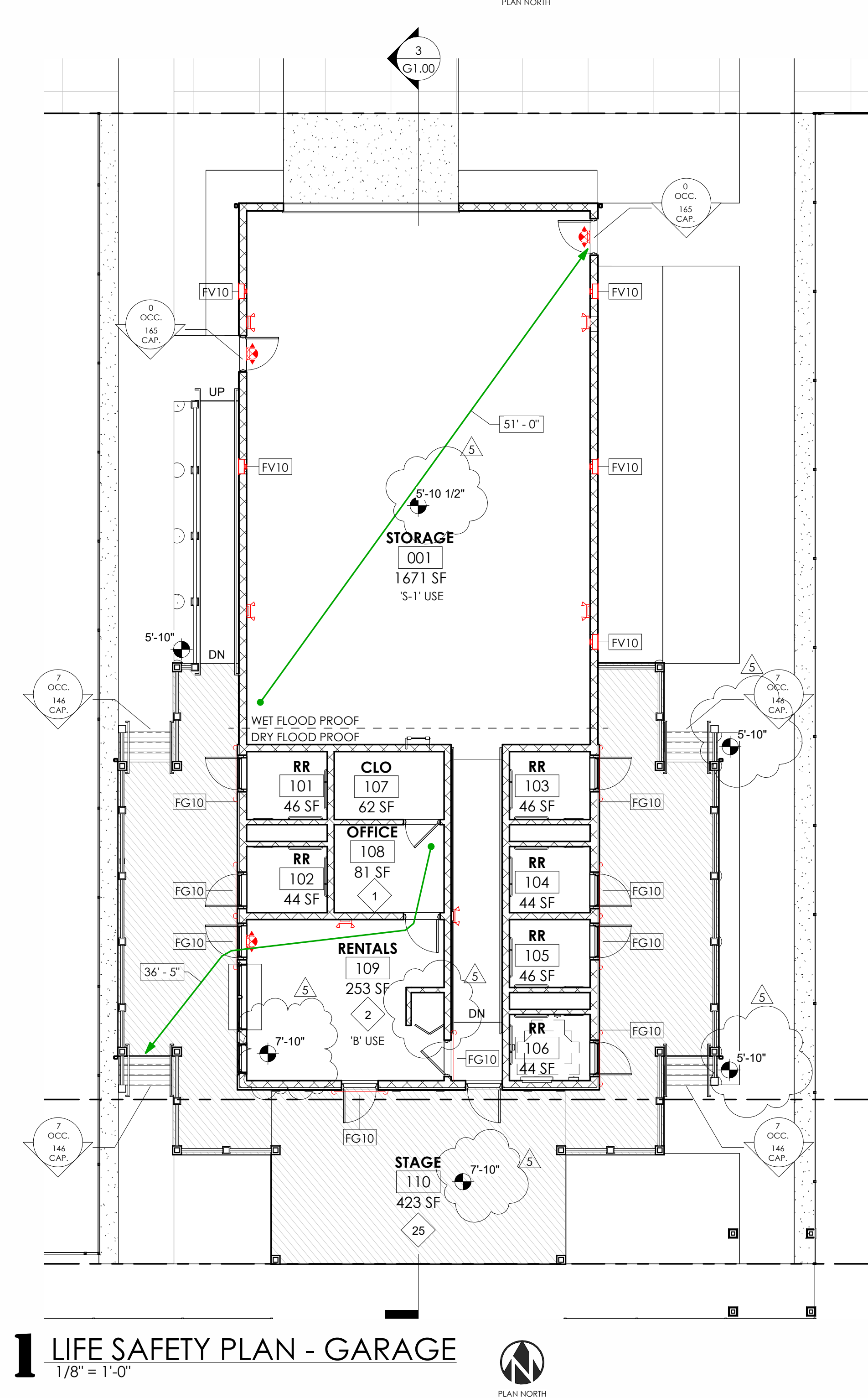
5 FLOOD BARRIER DETAIL
NOT TO SCALE

FLOOD VENT/GATE SCHEDULE							
ROOM NUMBER	ROOM NAME	AREA	DRY/WET FLOOD PROOFED	NUMBER OF STACKED FLOOD VENTS	AREA PER STACKED FLOOD VENT	NUMBER OF FLOOD GATES	WIDTH OF OPENING
000	PAVILION	1213 SF	-				
001	STORAGE	1671 SF	WET	5	353		
101	RR	46 SF	DRY			1	3'-4"
102	RR	44 SF	DRY			1	3'-4"
103	RR	46 SF	DRY			1	3'-4"
104	RR	44 SF	DRY			1	3'-4"
105	RR	46 SF	DRY			1	3'-4"
106	RR	44 SF	DRY			1	3'-4"
107	CLO	62 SF	DRY				
108	OFFICE	81 SF	DRY				
109	RENTALS	253 SF	DRY			3	3'-4"
110	STAGE	423 SF	-			-	-
200	MECH	243 SF	-			-	-

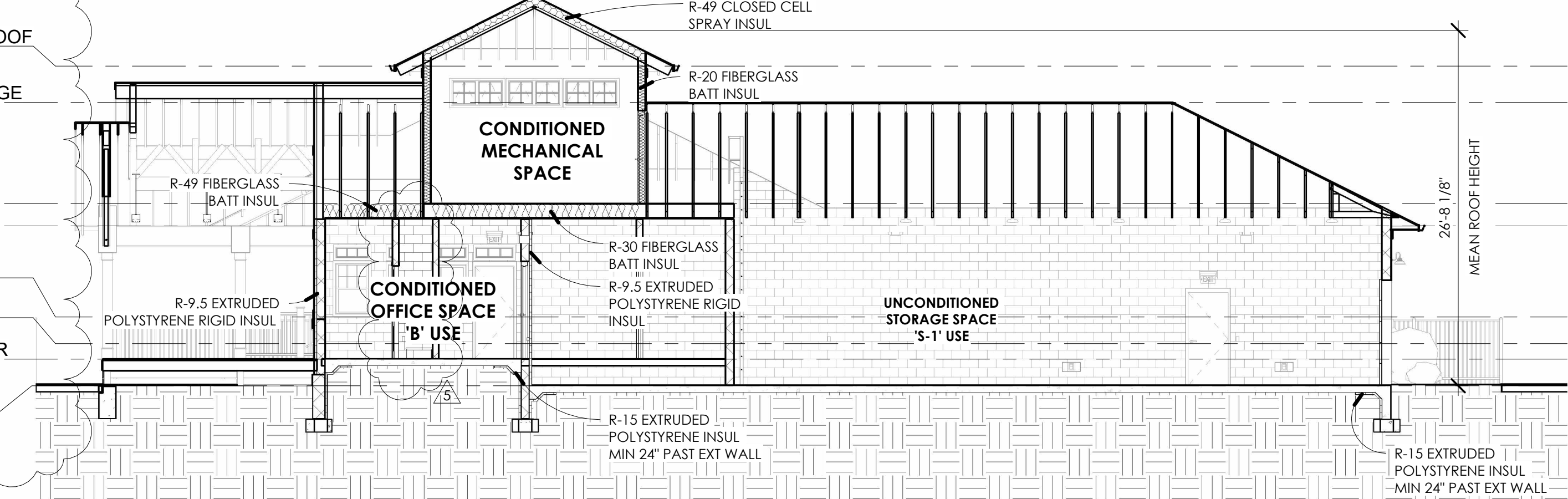
1. EACH STACKED FLOOD VENT COVERS A MAXIMUM OF 400 S.F.
2. ROOMS PROVIDED WITH FLOOD GATES FOR DRY FLOOD PROOFING AS NOTED IN SCHEDULE.



2 LIFE SAFETY PLAN - PAVILION
1/8" = 1'-0"

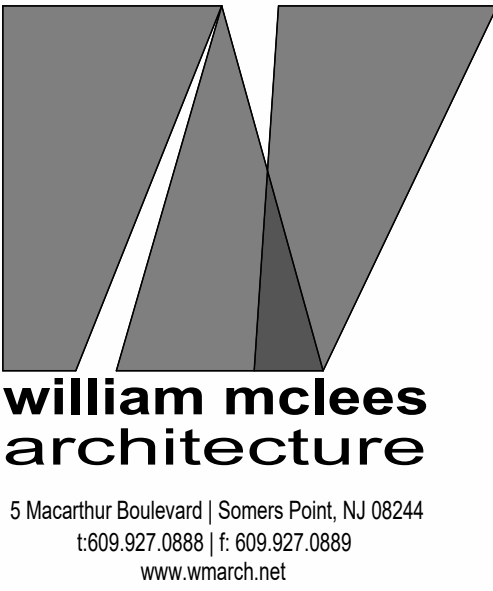


6 FLOOD VENT DETAIL
1" = 1'-0"



3 LIFE SAFETY SECTION - GARAGE
1/8" = 1'-0"

4 LIFE SAFETY SECTION - PAVILION
1/8" = 1'-0"



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NEW CONSTRUCTION:
34TH STREET
SANDCASTLE PARK
OPERATIONS
BUILDING

BLOCK 3403, LOTS 1 & 2
CITY OF OCEAN CITY
CAPE MAY COUNTY
NEW JERSEY
08226

PERMIT SET

No.	Description	Date
3	PERMIT ISSUE	09.11.26
4	REVISION 1	09.22.26
5	CODE REVIEW COMMENTS	09.25.26

LIFE SAFETY ANALYSIS
& FLOOR RESISTANT
BUILDING SYSTEMS

Scale As indicated
Drawn by AJS
Date 07.06.26

G1.00

Comission no. 250350

Project Award: August 6th, 2026

Permit Application: August 14th, 2026
Anticipated Permit Received: September 11th, 2026

Project Commences: September 14th, 2026
Demolition Commences (Separate Contract): September 14th, 2026
Building & Playground Site Demolition Completion: October 2nd, 2026

Building Construction Commences: October 5th, 2026
Complete Site Demolition Completion: October 16th, 2026
Pavilion Construction Commences: November 30th, 2026

Multi-Use Field Work Commences and becomes unavailable for laydown space: March 29th, 2027
Building and Site Substantially Complete: May 1st, 2027

2 PROJECT SCHEDULE
12" = 1'-0"

LIGHTING FIXTURE SCHEDULE				
TYPE	DESCRIPTION	MANUFACTURER	MTG	NOTES
LT1	4" ROUND DOWNLIGHT	GOTHAM	R	
LT2	2X2 SURFACE PANEL	LITHONIA	S	
LT3	8FT LINEAR	LITHONIA	S	
LT4	6" ROUND CYLINDER PENDANT	GOTHAM	P	
LT5	GOOSENECK SCONCE	DUNTON HOUSE	W	
LTE	EMERGENCY LTG	LITHONIA	W	
LTX	EXIT SIGN	LITHONIA	W	

1. REFER TO ELECTRICAL DRAWINGS FOR ALL LIGHTING FIXTURE SPECIFICATIONS.

PLUMBING FIXTURE SCHEDULE			
TYPE	DESCRIPTION	MANUFACTURER	NOTES
LAV1	WALL-MOUNTED PORCELAIN LAVATORY W/ SINGLE HOLE FAUCET	KOHLER Co.	
MR1	MOP RECEPTOR	ZURN	
WC1	WALL-MOUNTED PORCELAIN TOILET W/ FLUSHMETER VALVE	KOHLER Co.	

1. REFER TO PLUMBING DRAWINGS FOR ALL PLUMBING FIXTURE SPECIFICATIONS.

RESTROOM ACCESSORIES SCHEDULE						
TYPE	DESCRIPTION	MANUFACTURER	MODEL	DIMENSIONS	MOUNTING HEIGHT	NOTES
R01	TOILET TISSUE - SURFACE MOUNTED	BOBRICK	B-4288	6-1/16"x11"x5 15/16"	15" A.F.F.	TO BOTTOM
R02	GRAB BARS - TOILET	BOBRICK	B05806x42.36.18	1 1/4"x42", 1 1/4"x36", 1 1/4"x18"	REFER TO ELEVATIONS	TO CENTERLINE
R03	MIRROR	BOBRICK	B-2908 2436	24"x36"	38" A.F.F.	TO REFL. SURFACE
R04	SOAP DISPENSER	BOBRICK	B-4112	7"x6 1/8"x3 5/16"	54" A.F.F.	TO TOP
R05	TOWEL DISPENSER/WASTE RECEPTACLE	BOBRICK	B-43699	12 7/8"x28 1/8"x4"	48" A.F.F.	TO DISPENSER
R06	BABY CHANGER	KOALA KARE	KB310-SSRE	41 1/4"x26 1/4"x4"	23" A.F.F.	TO BOTTOM

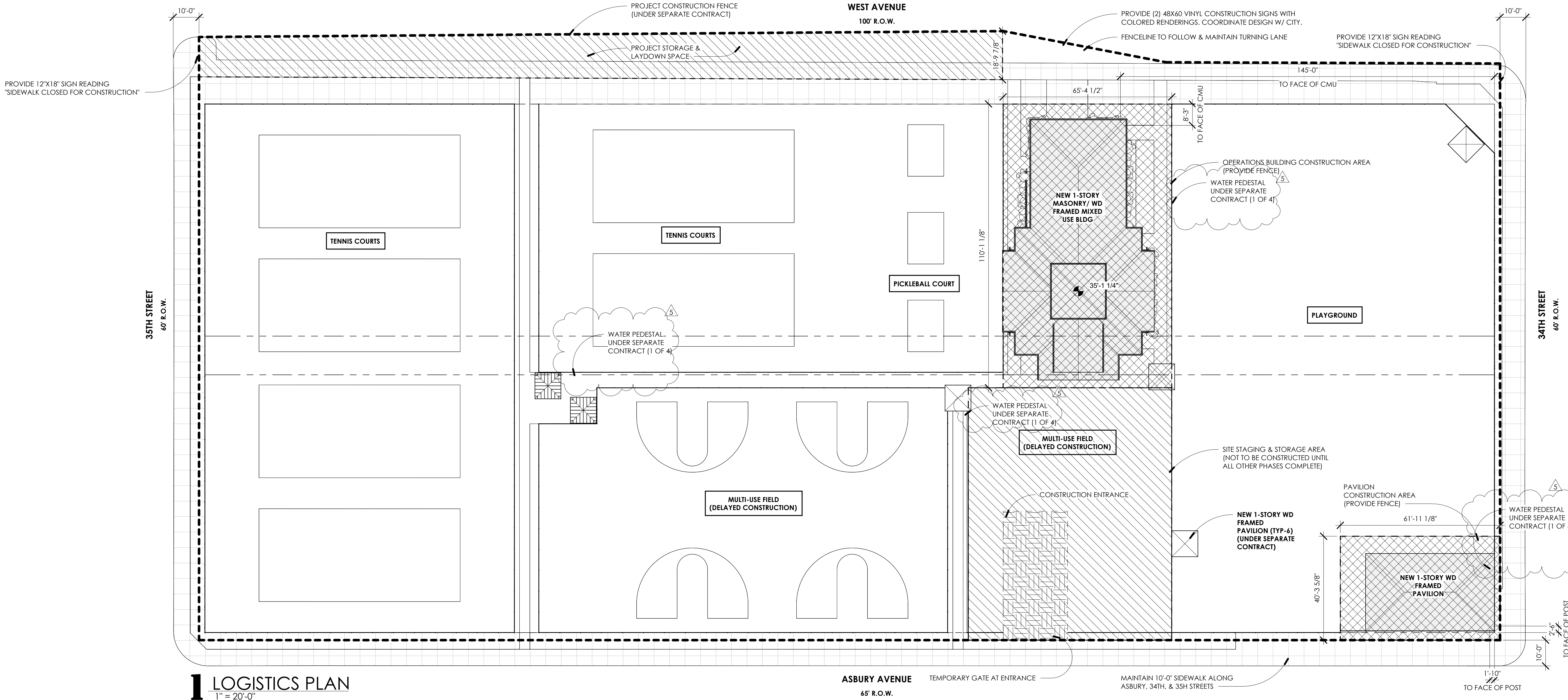
1. ALL ACCESSORIES TO COMPLY WITH ANSI A117.1 REQUIREMENTS.

ROOM SCHEDULE												
ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	CEILING MATERIAL	CEILING FINISH	CROWN FINISH	WALL FINISH				CASEWORK COUNTERTOP	COMMENTS
							NORTH	EAST	SOUTH	WEST		
001	STORAGE	RS10	-	-	-	-	PT12	PT12	PT12	PT12	-	
101	RR	RS20	BC10	GW6	PT00	PT20	PT11	PT11	PT11	PT11	-	
102	RR	RS20	BC10	GW6	PT00	PT20	PT11	PT11	PT11	PT11	-	
103	RR	RS20	BC10	GW6	PT00	PT20	PT11	PT11	PT11	PT11	-	
104	RR	RS20	BC10	GW6	PT00	PT20	PT11	PT11	PT11	PT11	-	
105	RR	RS20	BC10	GW6	PT00	PT20	PT11	PT11	PT11	PT11	-	
106	RR	RS20	BC10	GW6	PT00	PT20	PT11	PT11	PT11	PT11	-	
107	CLO	RS20	BC10	GW6	PT00	PT20	PT11	PT11	PT11	PT11	-	
108	OFFICE	RS20	BC10	GW6	PT00	PT20	PT11	PT11	PT11	PT11	-	
109	RENTALS	RS20	BC10	GW6	PT00	PT20	PT11	PT11	PT11	PT11	SS10	
200	MECH	-	-	-	-	-	-	-	-	-	-	

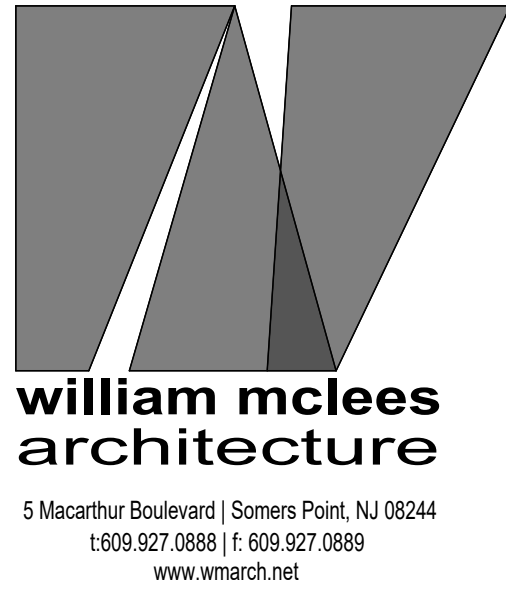
1. ALL CARDINAL DIRECTIONS ARE BASED ON PLAN NORTH ORIENTATION.

FINISH LEGEND				
TYPE	DESCRIPTION	MANUFACTURER	PRODUCT	REMARKS
BC10	BASE COVE CAP	SCHLUTER	ALUMINUM TRANSITION STRIP	
PT00	CEILING PAINT	SHERWIN-WILLIAMS	PRIME & (2) COATS INTERIOR LATEX - FLAT FINISH - CEILING BRIGHT WHITE SW7007	TYPICAL CEILING PAINT
PT11	WALL PAINT 1	SHERWIN WILLIAMS	PRIME & (2) COATS INTERIOR LATEX - EG-SHEL FINISH - SW 7551 GREEK VILLA	TYPICAL GYPSUM WALL PAINT
PT12	CMU WALL PAINT	SHERWIN WILLIAMS	(2) COATS LOXON WATER BLOCKING PRIMER - FINISH & (1) COAST SUPERPAINT AIR PURIFYING TECHNOLOGY INTERIOR ACRYLIC - STAIN FINISH - SW 7551 GREEK VILLA	TYPICAL CMU WALL PAINT
PT20	TRIM PAINT	SHERWIN-WILLIAMS	PRIME & (2) COATS INTERIOR LATEX - SW 7009 PEARLY WHITE	TYPICAL DOOR AND TRIM PAINT
RS10	RESINOUS FLOORING	DUR-A-FLEX	HYBRI-FLEX EB MEDIUM GREY	TYPICAL STORAGE FLOOR FINISH
RS20	RESINOUS FLOORING	INFLOOR	SANSEAM #528	TYPICAL RESTROOM & OFFICE FLOOR FINISH
SS10	SOLID SURFACE	PORCELANOSA	SNOW FALL L103- 1/2"	COUNTERTOPS

1. ALL EXPOSED & SEMI-EXPOSED SURFACES TO RECEIVE FINISH PER ELEVATION, FINISH SCHEDULE AND/OR SPECIFICATION.
2. ALL PRODUCTS AND MANUFACTURERS ARE PROVIDED AS A BASIS OF DESIGN. SUBSTITUTIONS ARE PERMITTED PER SPECIFICATIONS.



1 LOGISTICS PLAN
1" = 20'-0"



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34TH STREET
SANDCASTLE PARK
OPERATIONS
BUILDING

BLOCK 3403, LOTS 1 & 2
CITY OF OCEAN CITY
CAPE MAY COUNTY
NEW JERSEY
08226

PERMIT SET

No.	Description	Date
1	ADDENDUM 1	07.21.26
3	PERMIT ISSUE	09.11.26
4	REVISION 1	09.22.26
5	CODE REVIEW COMMENTS	09.25.26

SCHEDULES &
LOGISTICS PLAN

Scale: As indicated
Drawn by: AJS
Date: 07.06.26

A0.00

Comission no. 250350

FLOOR PLAN LEGEND

DATUM TAG
(HEIGHT ABOVE NAVD 88)

WALL TYPE TAG

DOOR TYPE TAG

WINDOW TYPE TAG

ROOM TAG

SECTION

ENLARGED VIEW

MASONRY PARTITION

FRAMED PARTITION

HINGED DOOR

DOUBLE DOOR

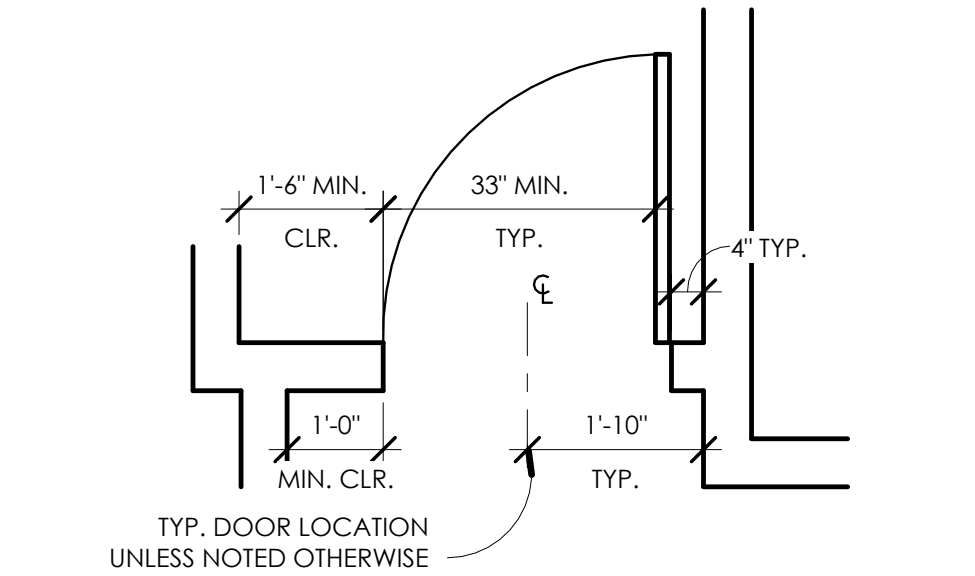
DOUBLE ACTING DOOR

WINDOW WALL

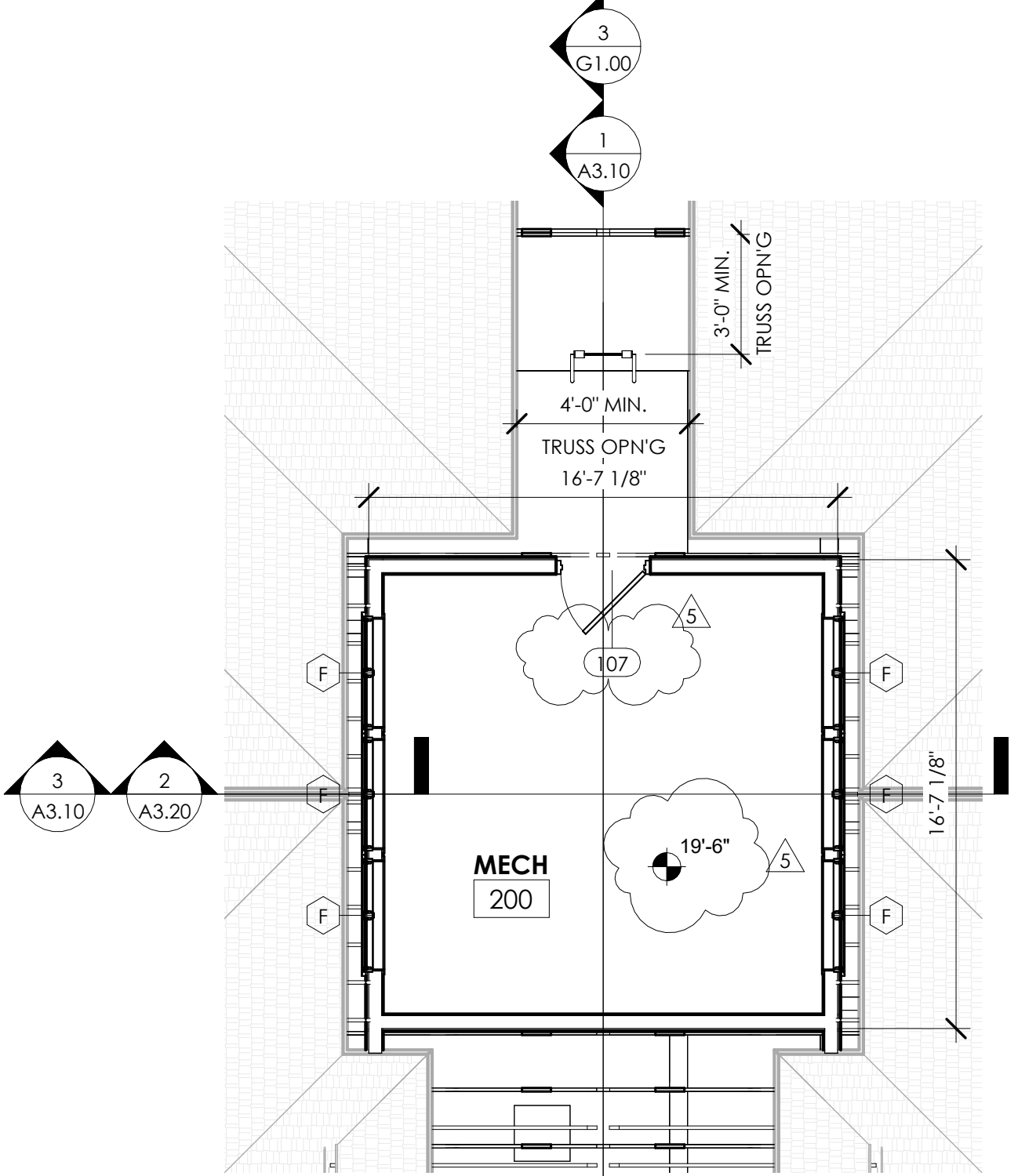
CASEMENT WINDOW

DIMENSION (TO STRUCTURE)

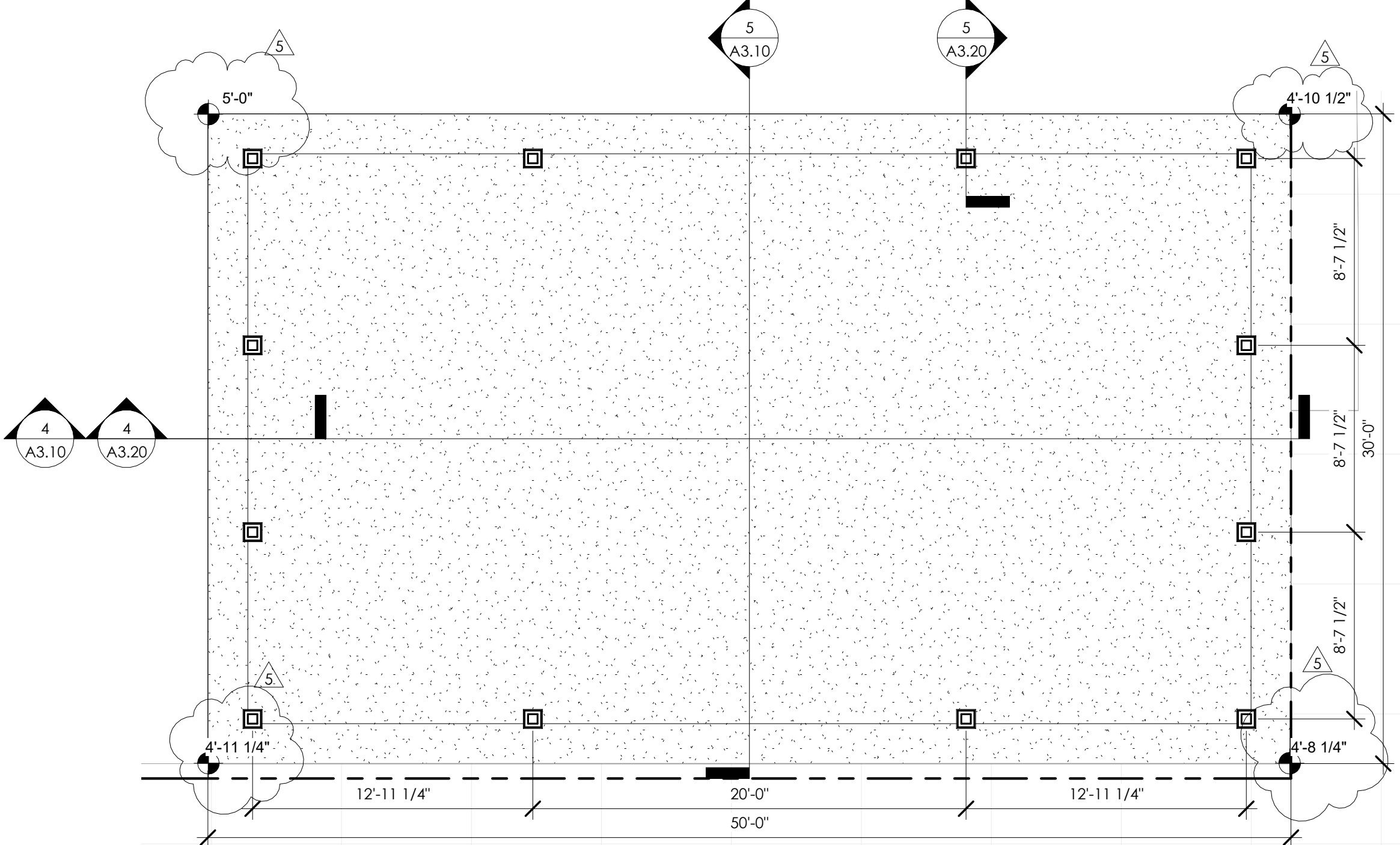
DIMENSION (TO FINISH FACE)



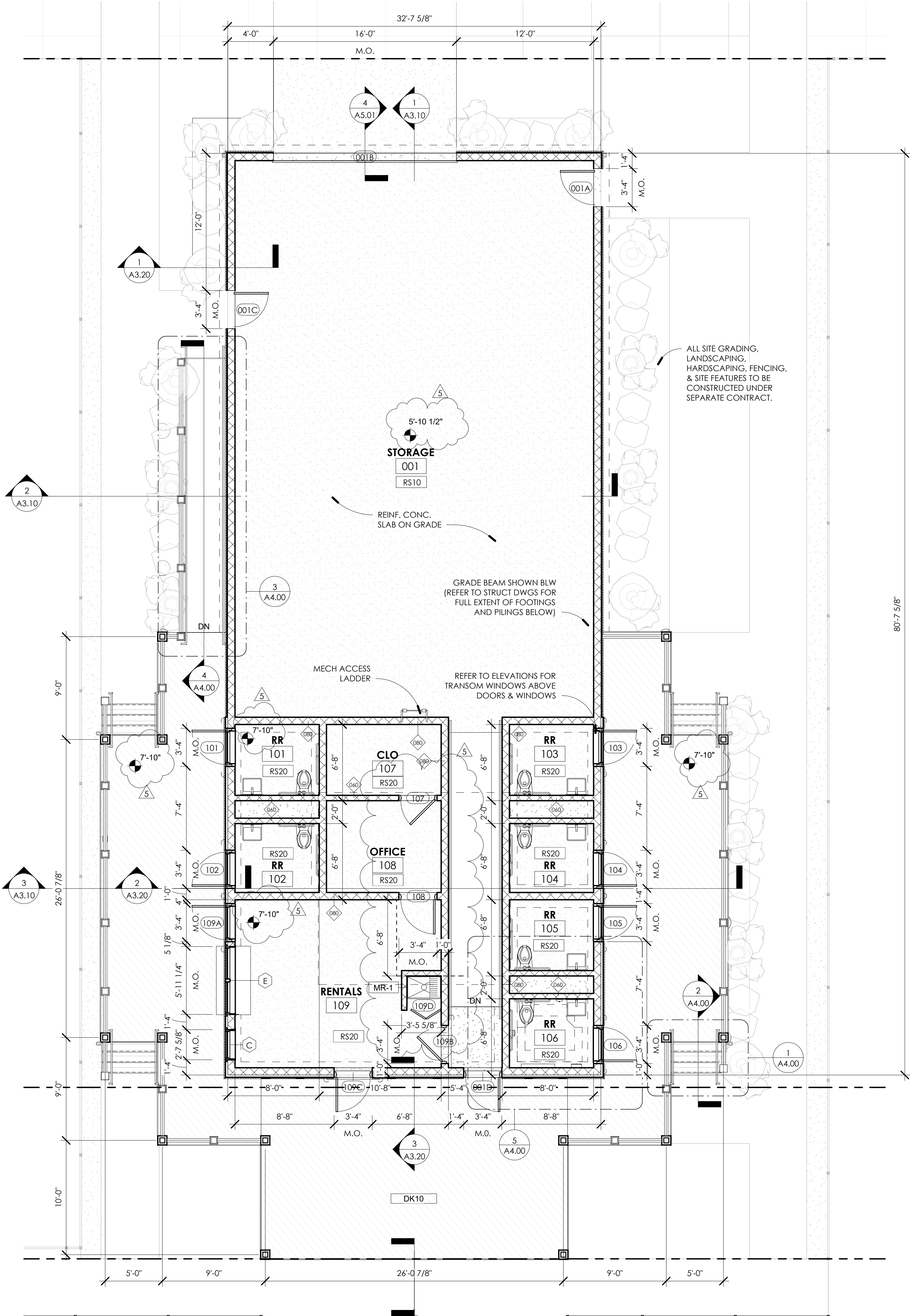
3 DOOR CLEARANCE DETAIL
1/2" = 1'-0"



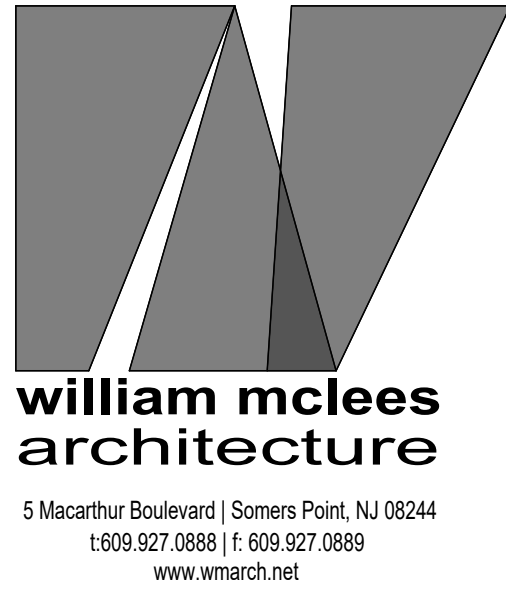
4 MECH PLAN - GARAGE
3/16" = 1'-0"



2 1ST FLR PLAN - PAVILION
3/16" = 1'-0"



1 1ST FLR PLAN - GARAGE
3/16" = 1'-0"



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FLOOR PLANS

Scale As indicated
Drawn by AJS
Date 07.06.26

A1.11

Comission no. 250350

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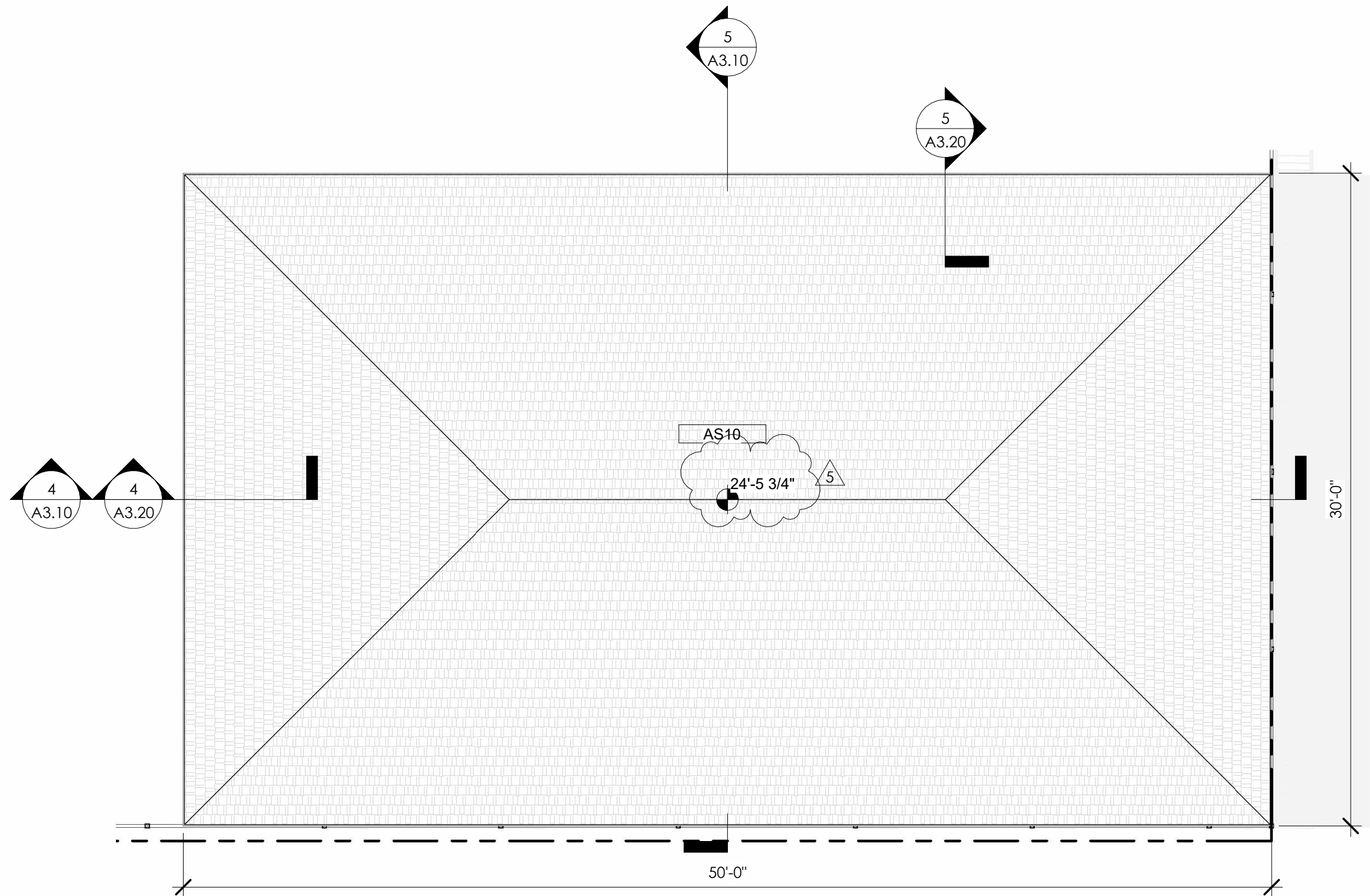
No.	Description	Date
2	OWNER REVISIONS	08.24.26
3	PERMIT ISSUE	09.11.26
4	REVISION 1	09.22.26
5	CODE REVIEW COMMENTS	09.25.26

ROOF PLANS

Scale 3/16" = 1'-0"
Drawn by AJS
Date 07.06.26

A1.12

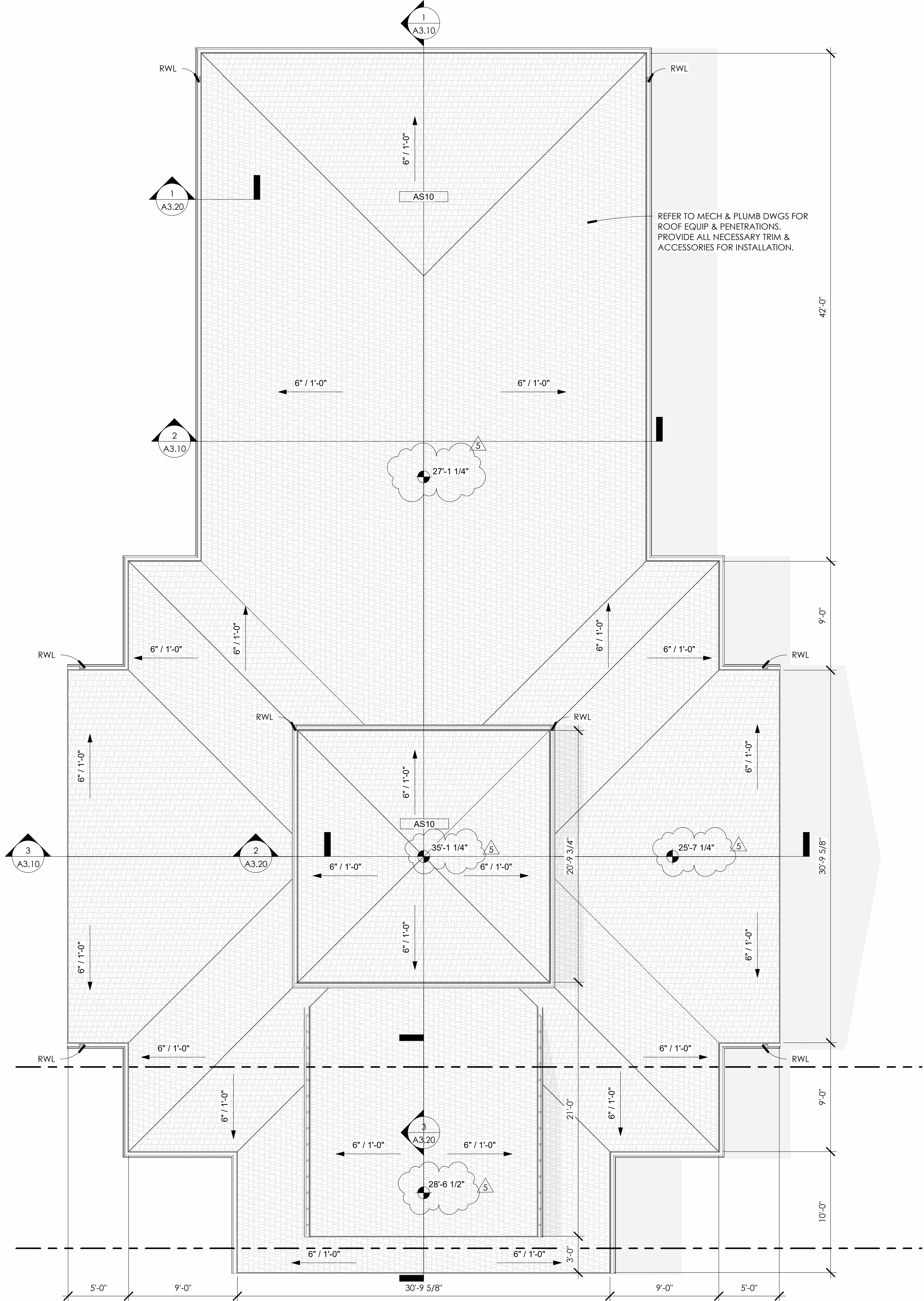
Comission no. 250350



2 ROOF PLAN - PAVILION
3/16" = 1'-0"



PLAN NORTH



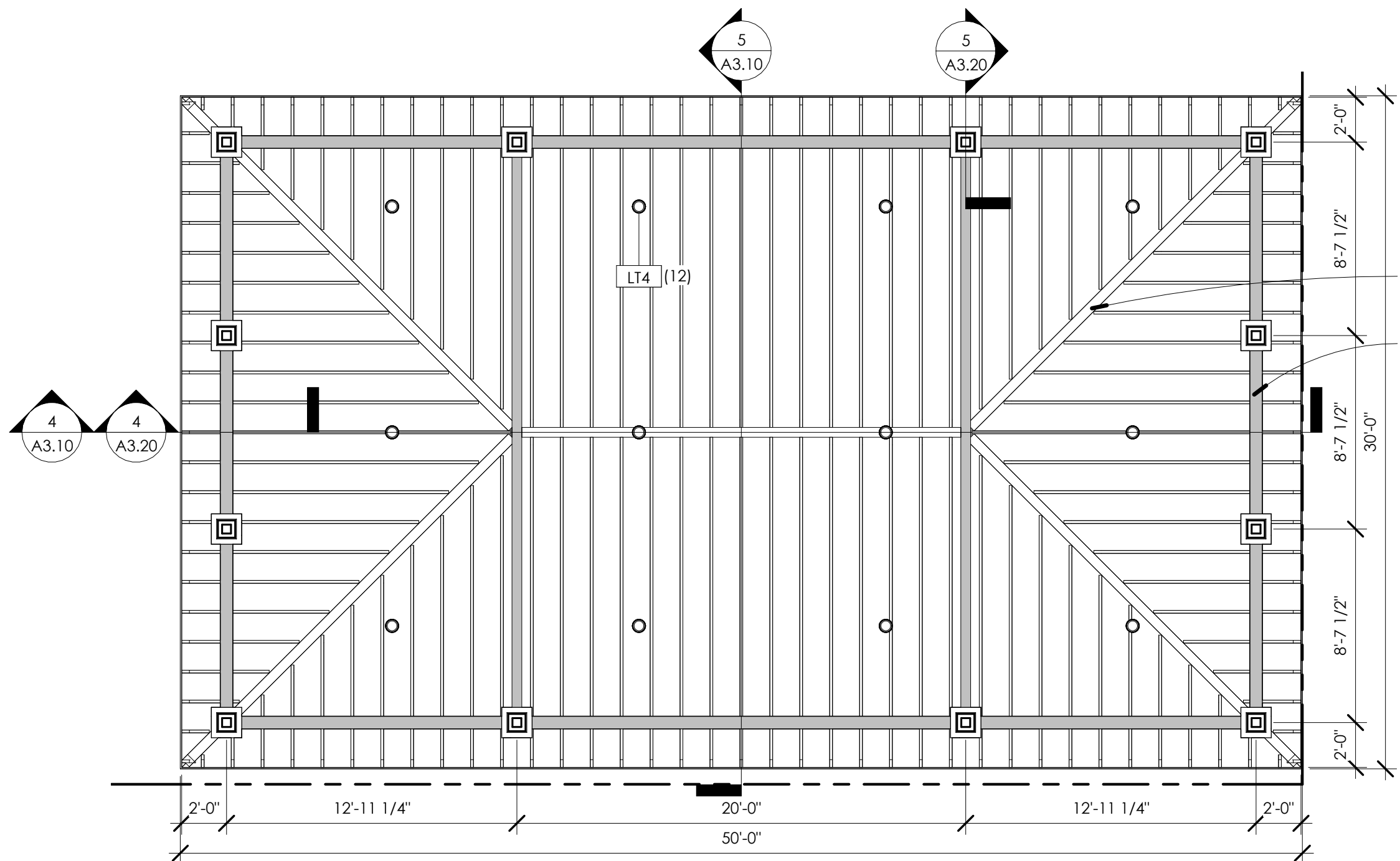
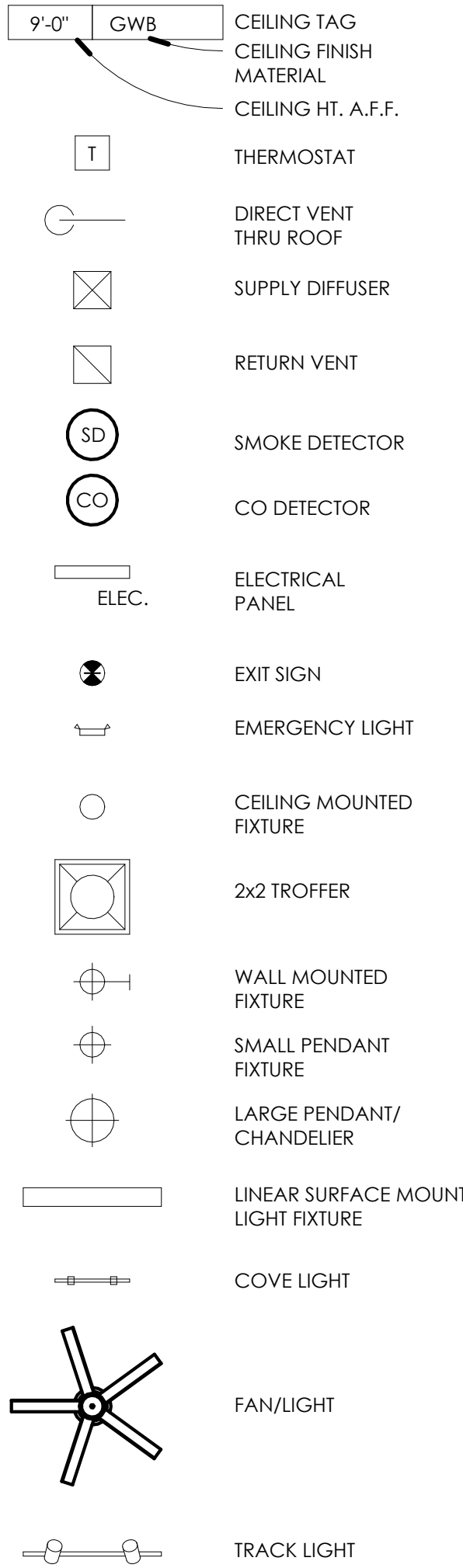
1 ROOF PLAN - GARAGE
3/16" = 1'-0"



PLAN NORTH

REFER TO MECH & PLUMB DWGS FOR
ROOF EQUIP & PENETRATIONS.
PROVIDE ALL NECESSARY TRIM &
ACCESSORIES FOR INSTALLATION.

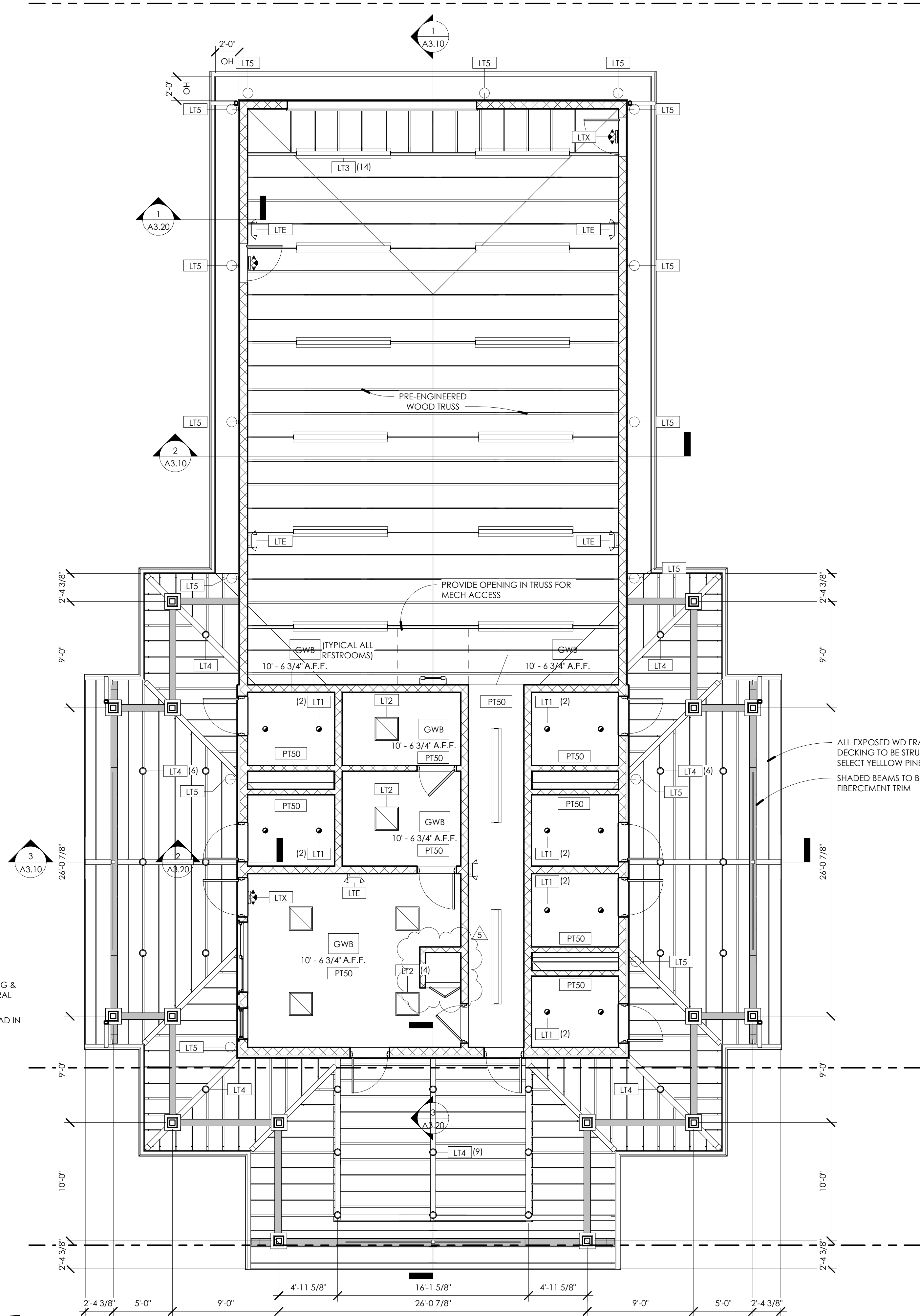
REFLECTED CEILING LEGEND



2 1ST FLR REFLECTED CEILING PLAN - PAVILION
3/16" = 1'-0"



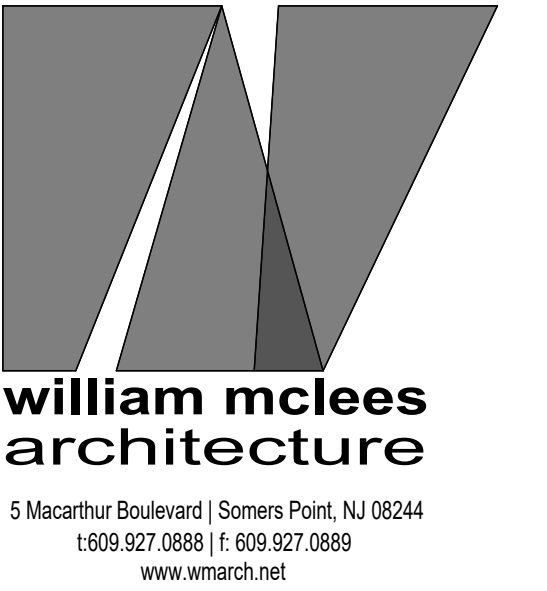
PLAN NORTH



1 1ST FLR REFLECTED CEILING PLAN - GARAGE
3/16" = 1'-0"



PLAN NORTH



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AIA, LEED AP
New Jersey State License
Pennsylvania State License

AI 14054
RA403479

William McLees Architecture, LLC
New Jersey State Certificate of Authorization #
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NEW CONSTRUCTION:
34TH STREET
SANDCASTLE PARK
OPERATIONS
BUILDING

BLOCK 3403, LOTS 1 & 2
CITY OF OCEAN CITY
CAPE MAY COUNTY
NEW JERSEY
08226

PERMIT SET

No.	Description	Date
1	ADDENDUM 1	07.21.26
3	PERMIT ISSUE	09.11.26
5	CODE REVIEW COMMENTS	09.25.26

REFLECTED CEILING
PLAN

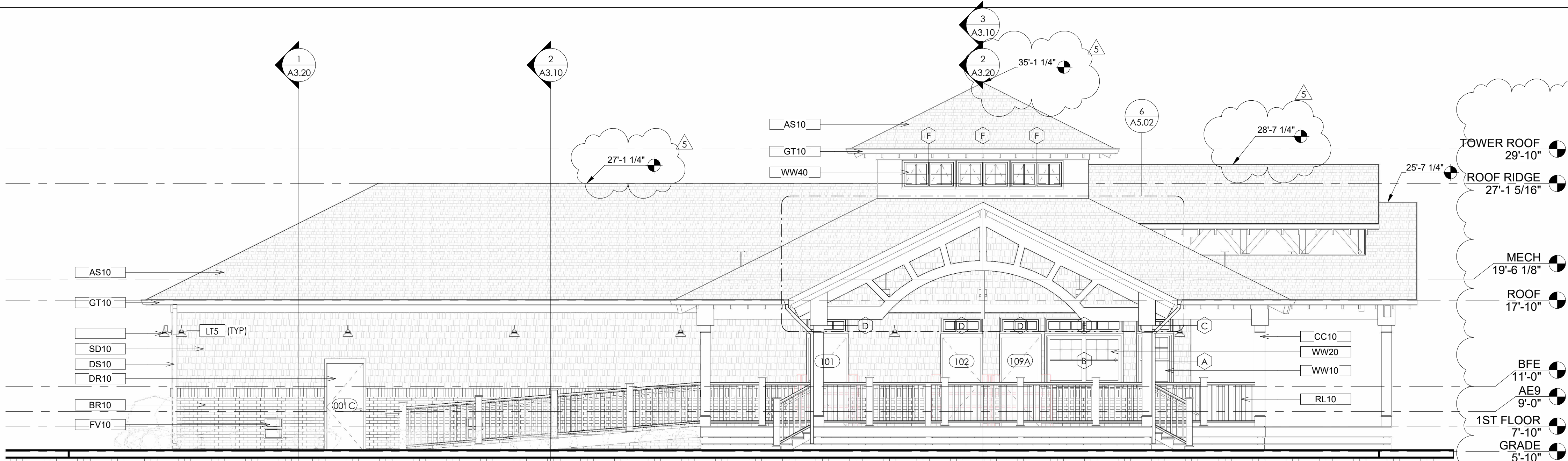
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Drawn by AJS
Date 07.06.26

A1.20

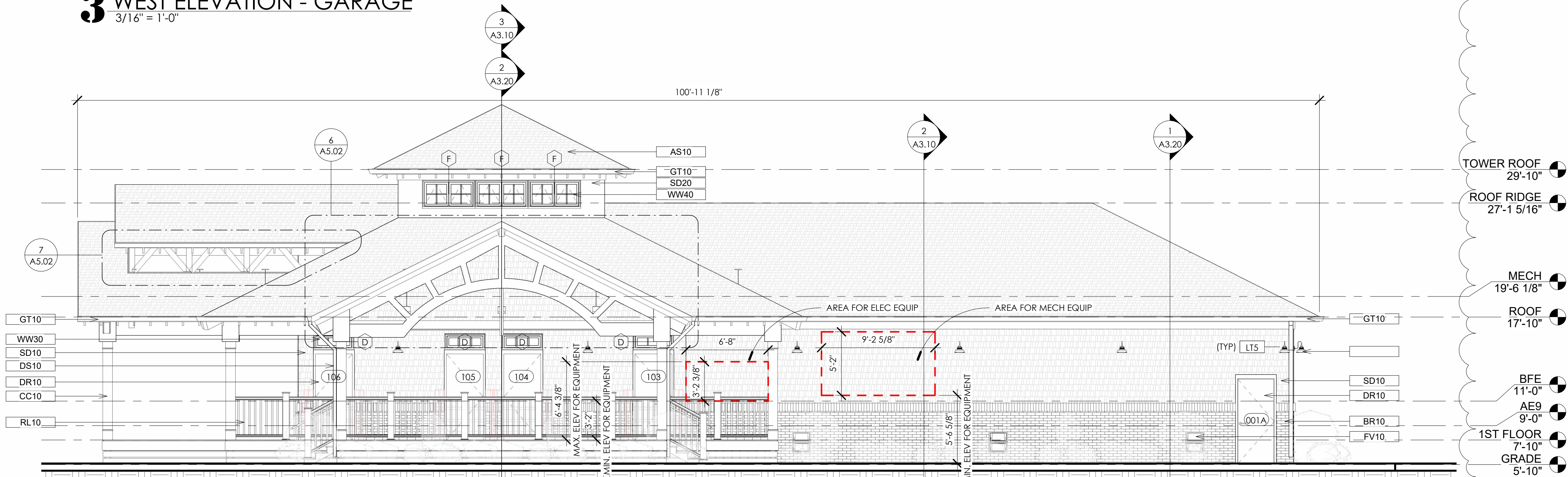
Comission no. 250350

EXTERIOR FINISH LEGEND	
TYPE	DESCRIPTION
AS10	GAF TIMBERLINE HDZ ASPHALT SHINGLE. COLOR BY ARCHITECT.
BR10	ROYAL THINK BRICK 250 CHARLES' VENEER.
CC10	H&G 12" SQUARE PVC COLUMN SURROUND. COLOR BY ARCHITECT.
DK10	5/4X6 COMPOSITE DECKBOARDS W/ WOOD GRAIN TEXTURE.
DR10	PTD FIBER REINFORCED PLASTIC INSULATED FULL FLUSH DOOR.
DS10	PTD. ALUM. RECTANGULAR DOWNSPOUT. COLOR TO MATCH GUTTERS.
FB10	HARDIE FIBER CEMENT FASCIABOARD. ARTIC WHITE.
FV10	SMART VENT STACKED FLOOD VENT.
GT10	PTD ALUM. 'K' STYLE GUTTER. COLOR TO MATCH DOWNSPOUTS.
LV10	EXTRUDED HORIZONTAL BLADE ALUMINUM LOUVER. COLOR BY ARCHITECT.
RL10	42" HIGH INTEX HAMPTON SERIES PVC RAILING SYSTEM W/ DECORATIVE PANEL.
SD10	HARDIE FIBER CEMENT SHINGLE STRAIGHT EDGE SIDING, 6" EXPOSURE. 0.25" THK. PEARL GREY.
SD20	HARDIE FIBER CEMENT VERTICAL SIDING, 2"W. X 3/4"THK. BATTEN @ 24" O.C. ARTIC WHITE.
WW10	ANDERSEN 400 SERIES VINYL CLAD WOOD DOUBLE HUNG WINDOW.
WW20	ANDERSEN 400 SERIES VINYL CLAD WOOD SLIDING WINDOW.
WW30	ANDERSEN 400 SERIES VINYL CLAD WOOD TRANSOM WINDOW.
WW40	ANDERSEN 400 SERIES VINYL CLAD WOOD AWNING WINDOW.

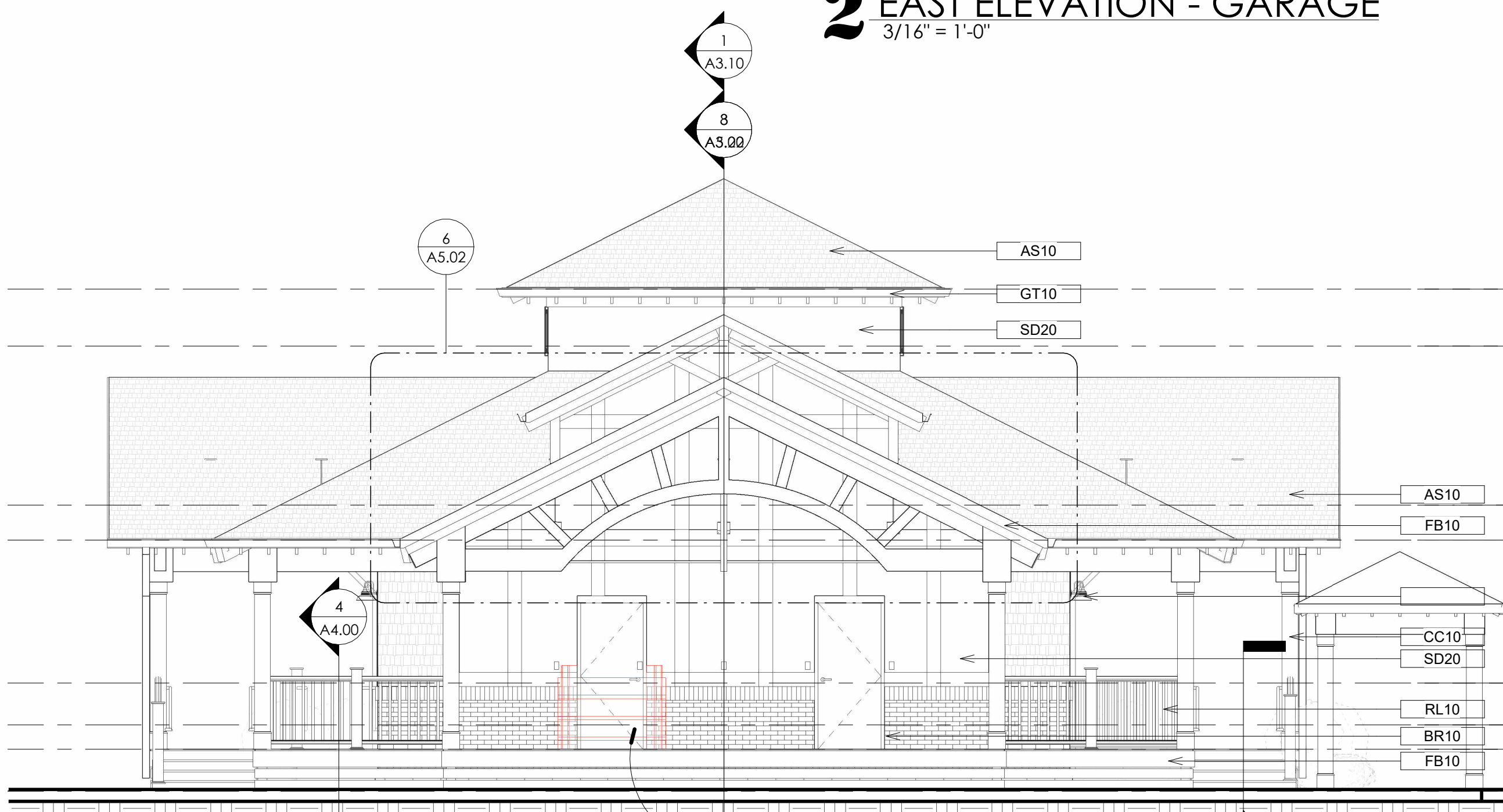
NOTE: ALL PRODUCTS AND MANUFACTURERS ARE PROVIDED AS A BASIS OF DESIGN. SUBSTITUTIONS ARE PERMITTED PER SPECIFICATIONS.



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

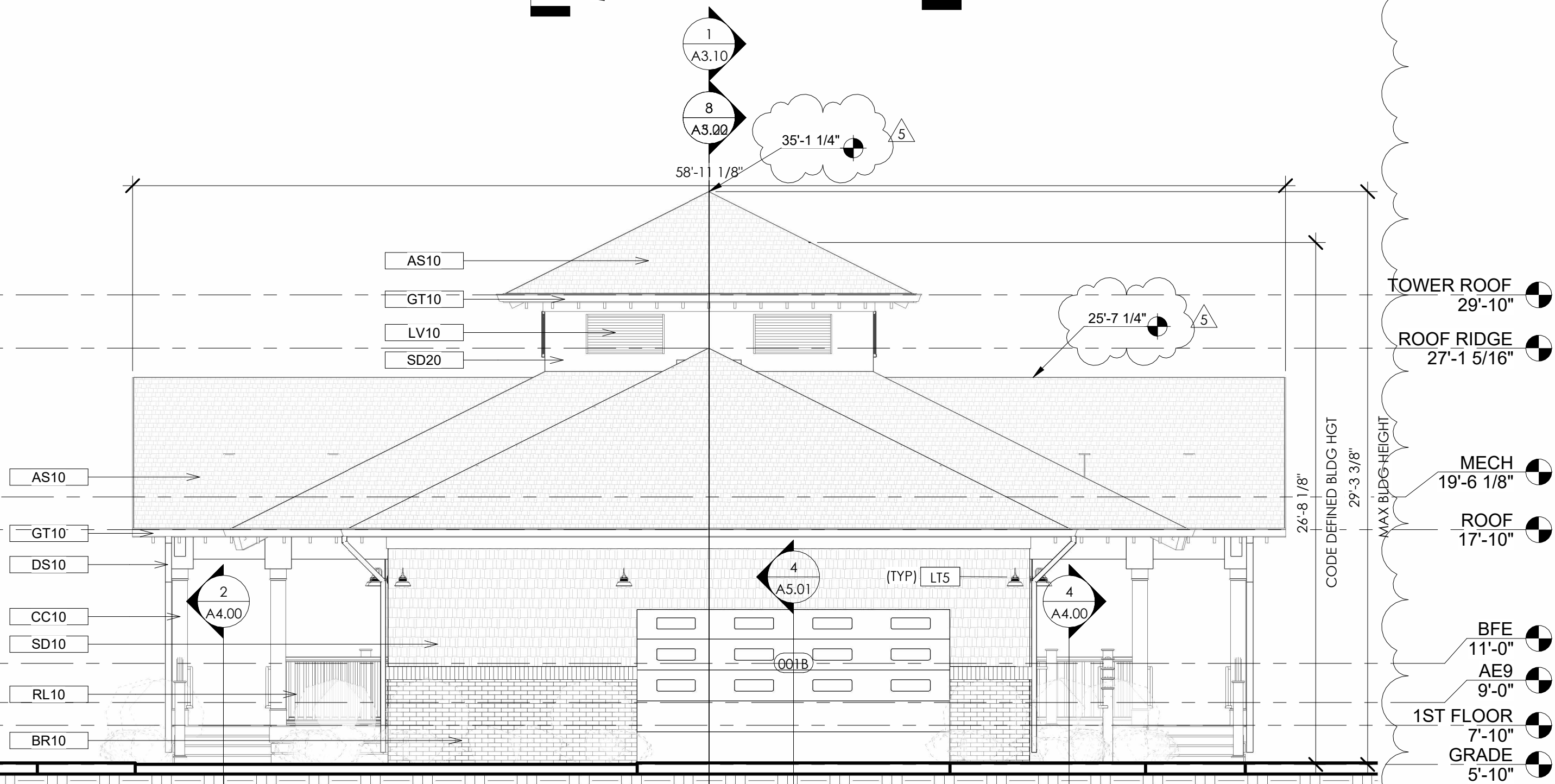


2 EAST ELEVATION - GARAGE
3/16" = 1'-0"

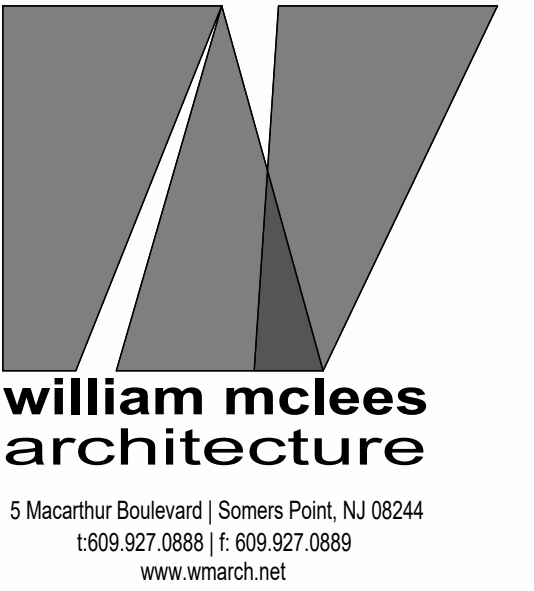


4 SOUTH ELEVATION - GARAGE
3/16" = 1'-0"

FLOOD GATES, REFER TO G1.00 FOR QUANTITIES, SIZES, & LOCATIONS



1 NORTH ELEVATION - GARAGE
3/16" = 1'-0"



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NEW CONSTRUCTION:
34TH STREET
SANDCASTLE PARK
OPERATIONS
BUILDING

BLOCK 3403, LOTS 1 & 2
CITY OF OCEAN CITY
CAPE MAY COUNTY
NEW JERSEY
08226

PERMIT SET

No.	Description	Date
2	OWNER REVISIONS	08.24.26
3	PERMIT ISSUE	09.11.26
4	REVISION 1	09.22.26
5	CODE REVIEW COMMENTS	09.25.26

EXTERIOR ELEVATIONS
- GARAGE

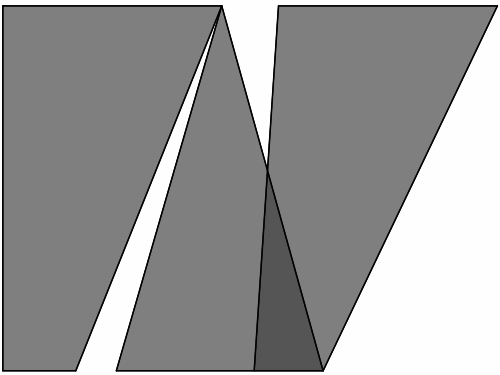
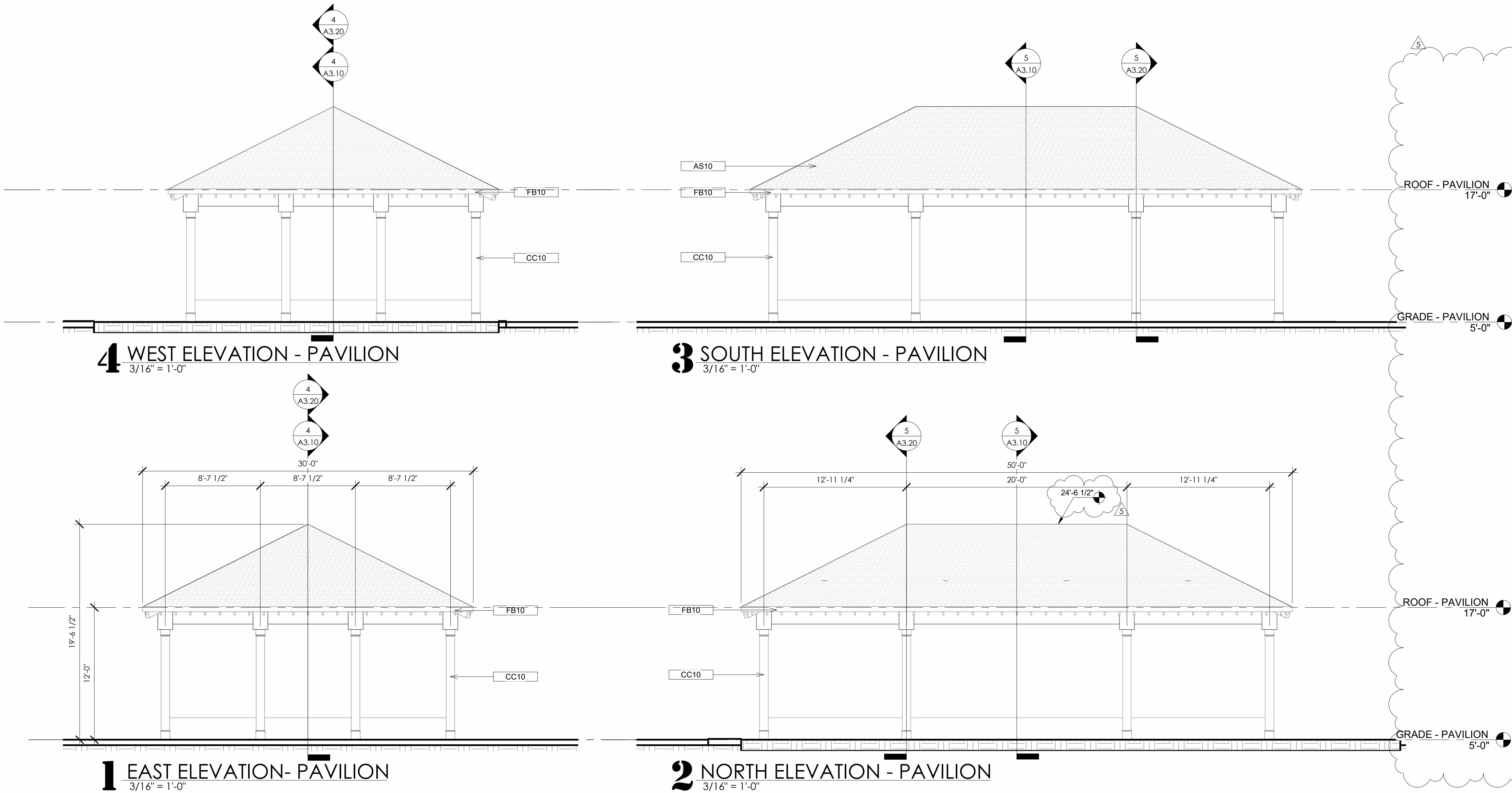
Scale 3/16" = 1'-0"
Drawn by AJS
Date 07.06.26

A2.11

Comission no. 250350

EXTERIOR FINISH LEGEND	
TYPE	DESCRIPTION
AS10	GAF TIMBERLINE HDZ ASPHALT SHINGLE. COLOR BY ARCHITECT.
BR10	ROYAL THINK BRICK 250 CHARLES' VENEER.
CC10	HB&G 12" SQUARE PVC COLUMN SURROUND. COLOR BY ARCHITECT.
DK10	5/4X6 COMPOSITE DECKBOARDS W/ WOOD GRAIN TEXTURE.
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WW10	ANDERSEN 400 SERIES VINYL CLAD WOOD DOUBLE HUNG WINDOW.
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WW30	ANDERSEN 400 SERIES VINYL CLAD WOOD TRANSOM WINDOW.
WW40	ANDERSEN 400 SERIES VINYL CLAD WOOD AWNING WINDOW.

NOTE: ALL PRODUCTS AND MANUFACTURERS ARE PROVIDED AS A BASIS OF DESIGN. SUBSTITUTIONS ARE PERMITTED PER SPECIFICATIONS.



william mclees
architecture

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NEW CONSTRUCTION:
34TH STREET
SANDCASTLE PARK
OPERATIONS
BUILDING

BLOCK 3403, LOTS 1 & 2
CITY OF OCEAN CITY
CAPE MAY COUNTY
NEW JERSEY
08226

PERMIT SET

No.	Description	Date
2	OWNER REVISIONS	08.24.26
3	PERMIT ISSUE	09.11.26
4	REVISION 1	09.22.26
5	CODE REVIEW COMMENTS	09.25.26

EXTERIOR ELEVATIONS
- PAVILION

Scale 3/16" = 1'-0"
Drawn by AJS
Date 07.06.26

A2.21

Comission no. 250350



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Comission no.	250350
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1 BUILDING SECTION - GARAGE N/S

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NEW CONSTRUCTION:
**34TH STREET
SANDCASTLE PARK
OPERATIONS
BUILDING**

BLOCK 3403, LOTS 1 & 2
CITY OF OCEAN CITY
CAPE MAY COUNTY
NEW JERSEY
08226

PERMIT SET

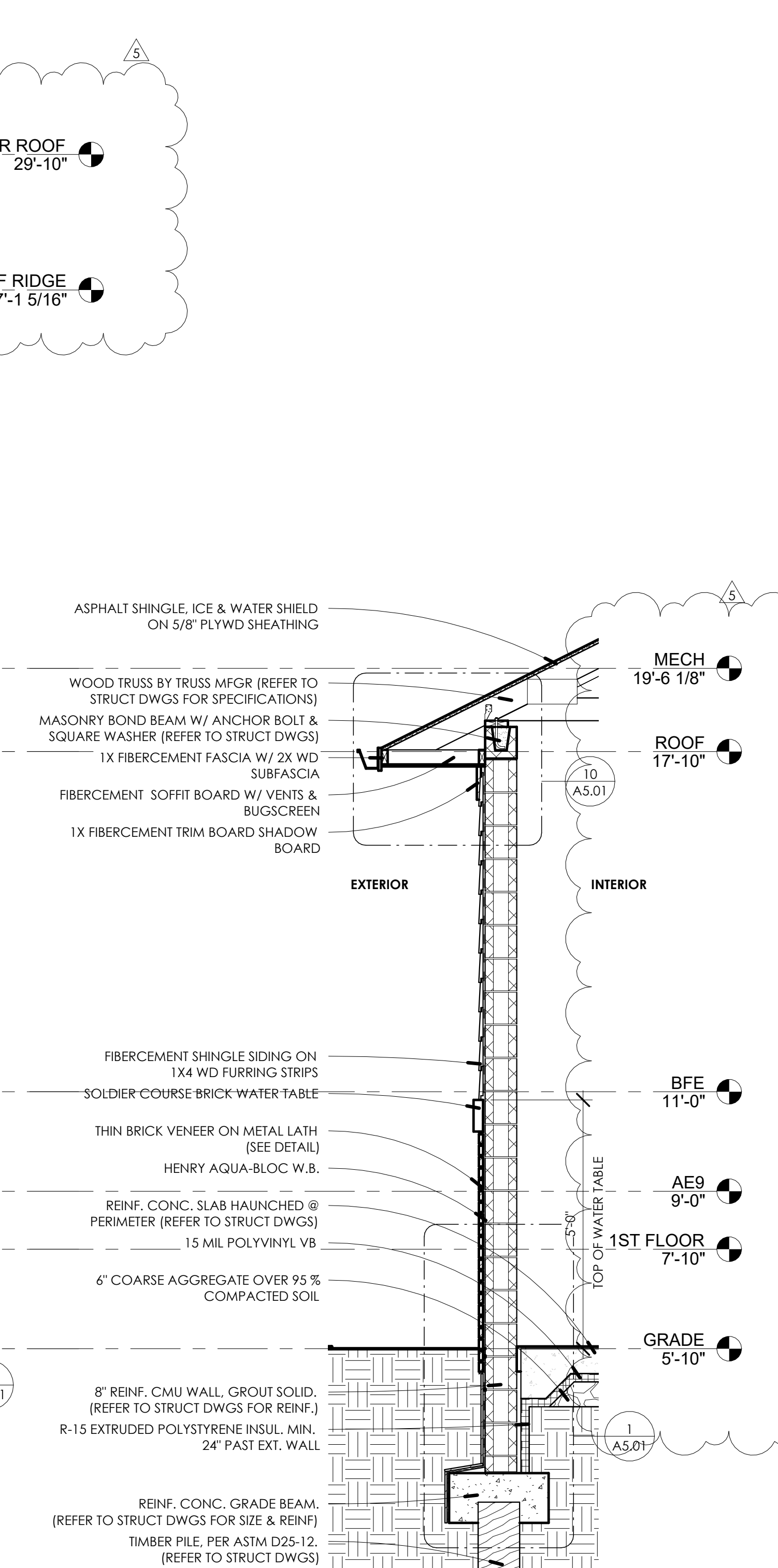
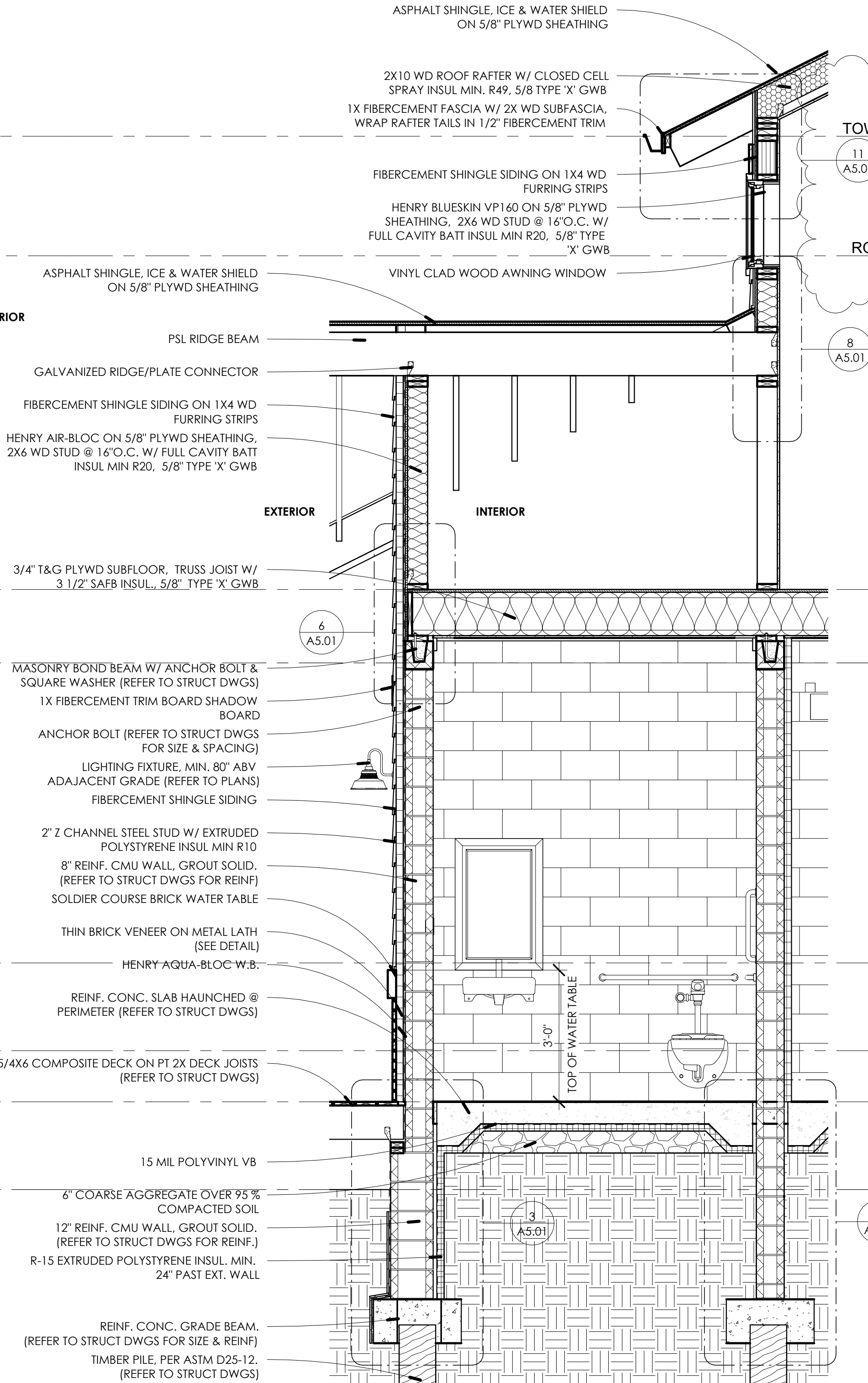
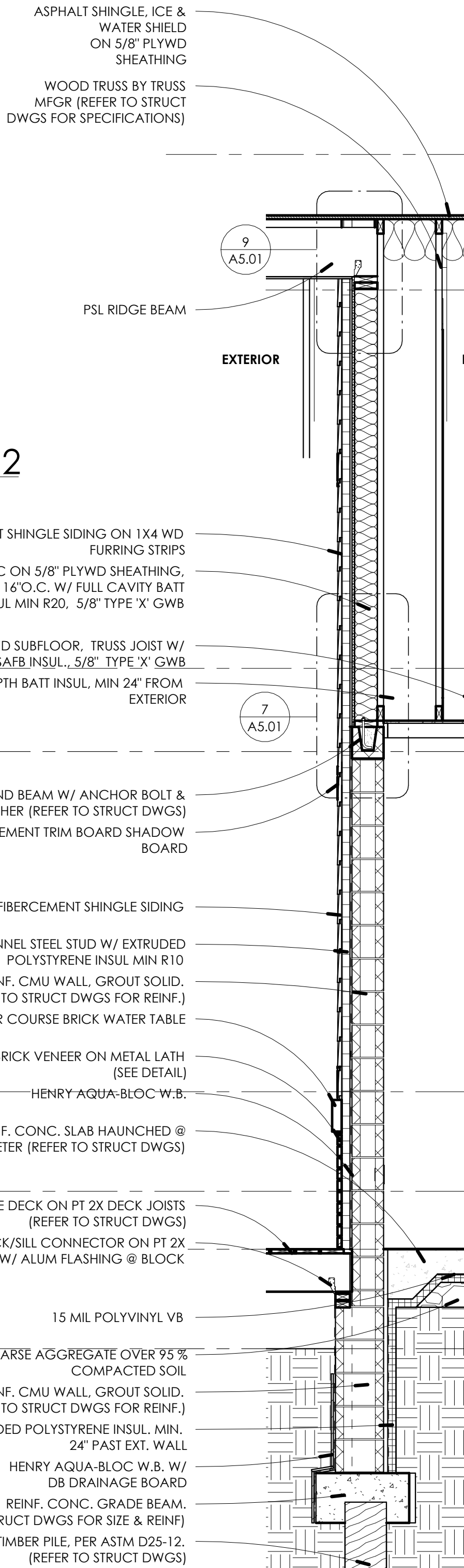
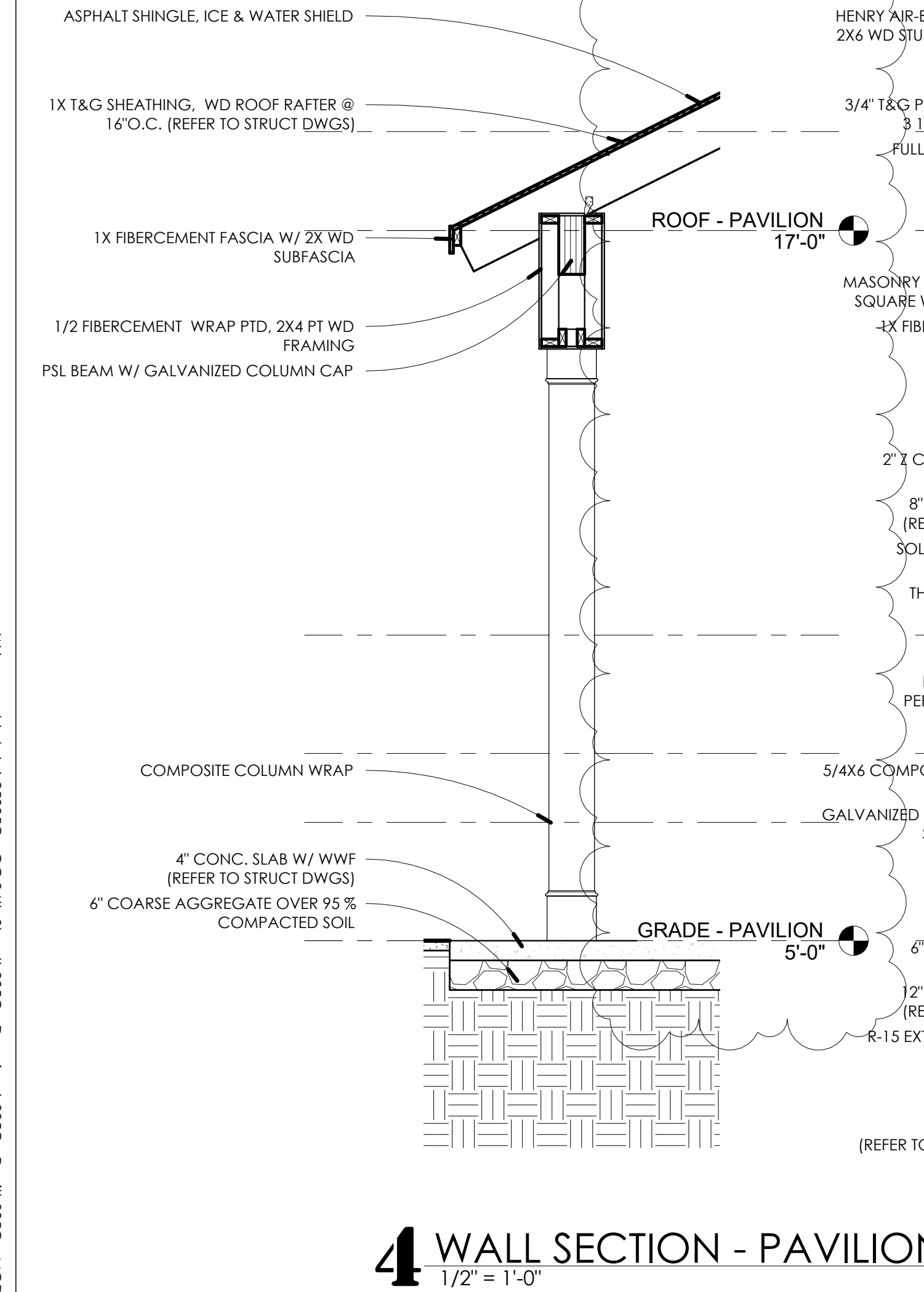
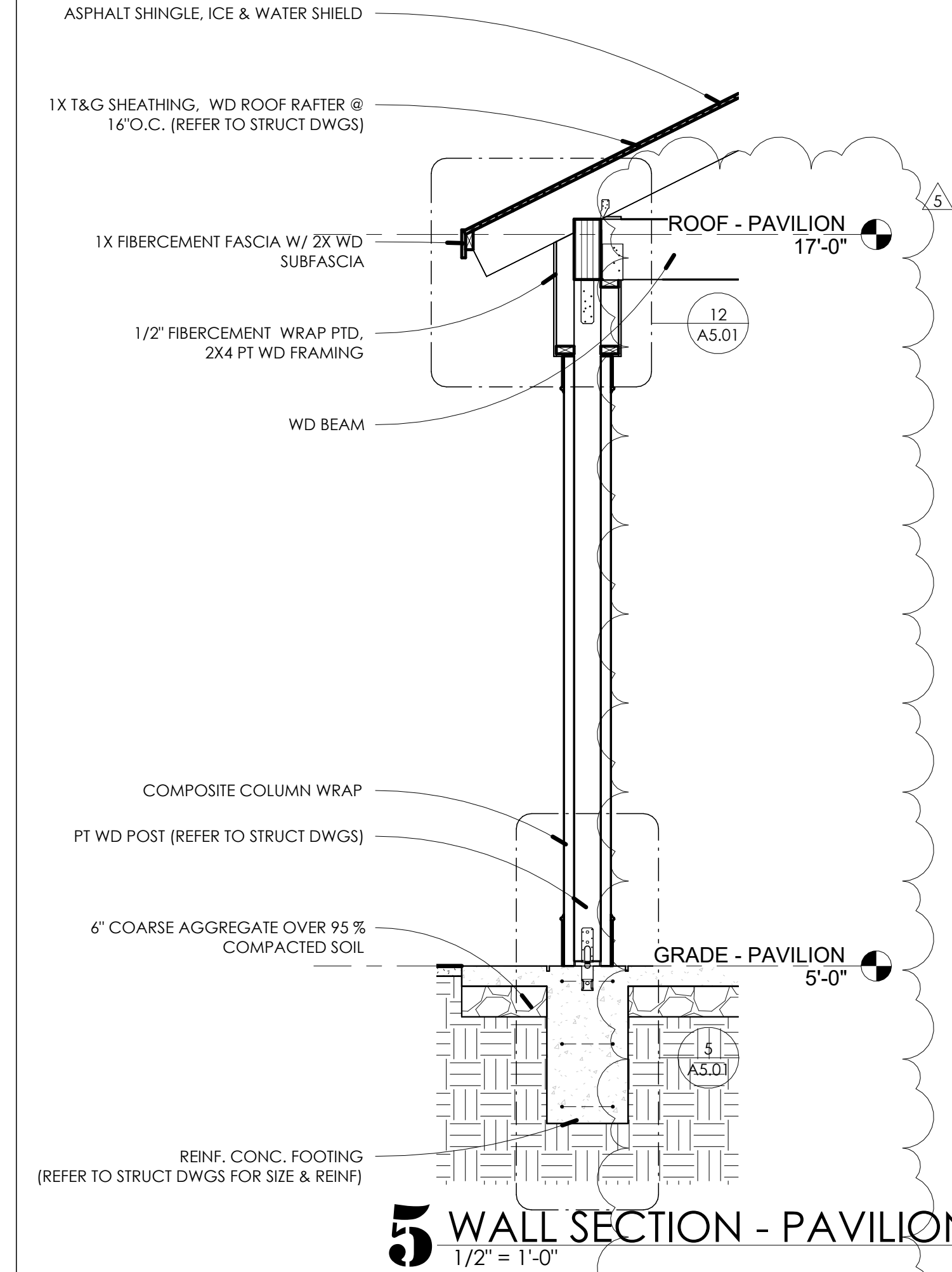
No.	Description	Date
2	OWNER REVISIONS	08.24.26
3	PERMIT ISSUE	09.11.26
4	REVISION 1	09.22.26
5	CODE REVIEW COMMENTS	09.25.26

WALL SECTIONS

Scale 1/2" = 1'-0"
Drawn by AJS
Date 07.06.26

A3.20

Comission no. 250350



 2'-0" DIMENSION (TO STRUCTURE)

 2'-0" DIMENSION (TO FINISH FACE)

1-1/2" DIA. PTD. GALV. STEEL
HANDRAIL, 36"H. W/ POST MTD BRACKETS

VINYL POST ENCLOSURE
W/ PT 4X4 POST

VINYL TOP RAIL

1"X1" VINYL RAIL W/
POSTS @ 6'-0" O.C.

REFER TO STRUCT. DWGS FOR
LANDING CONSTRUCTION



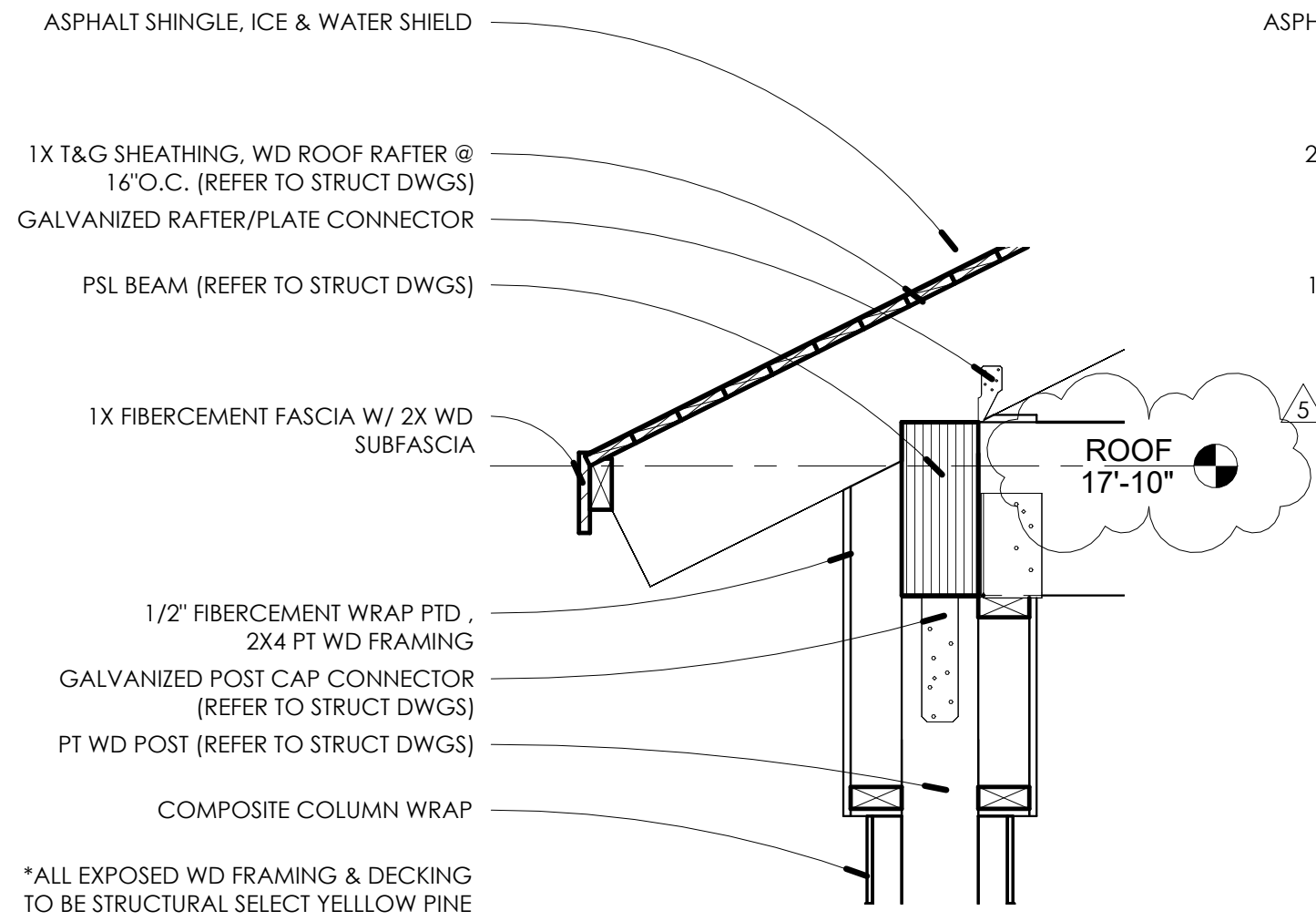
NEW CONSTRUCTION:
34TH STREET
ANDCASTLE PARK
OPERATIONS
BUILDING

PERMIT SET

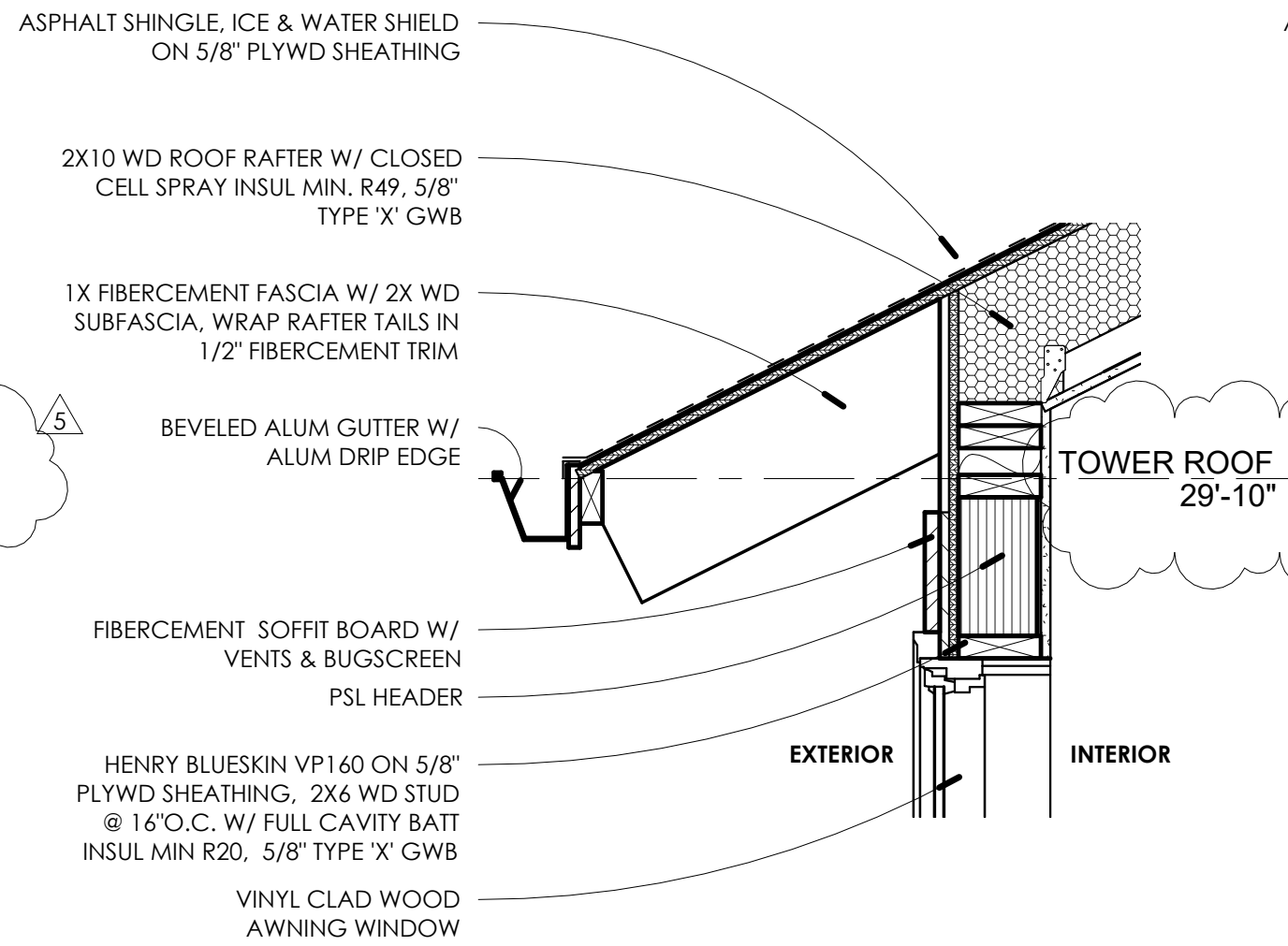
ENLARGED VIEWS - STAIRS, RAMPS, & RESTROOMS

A4.00

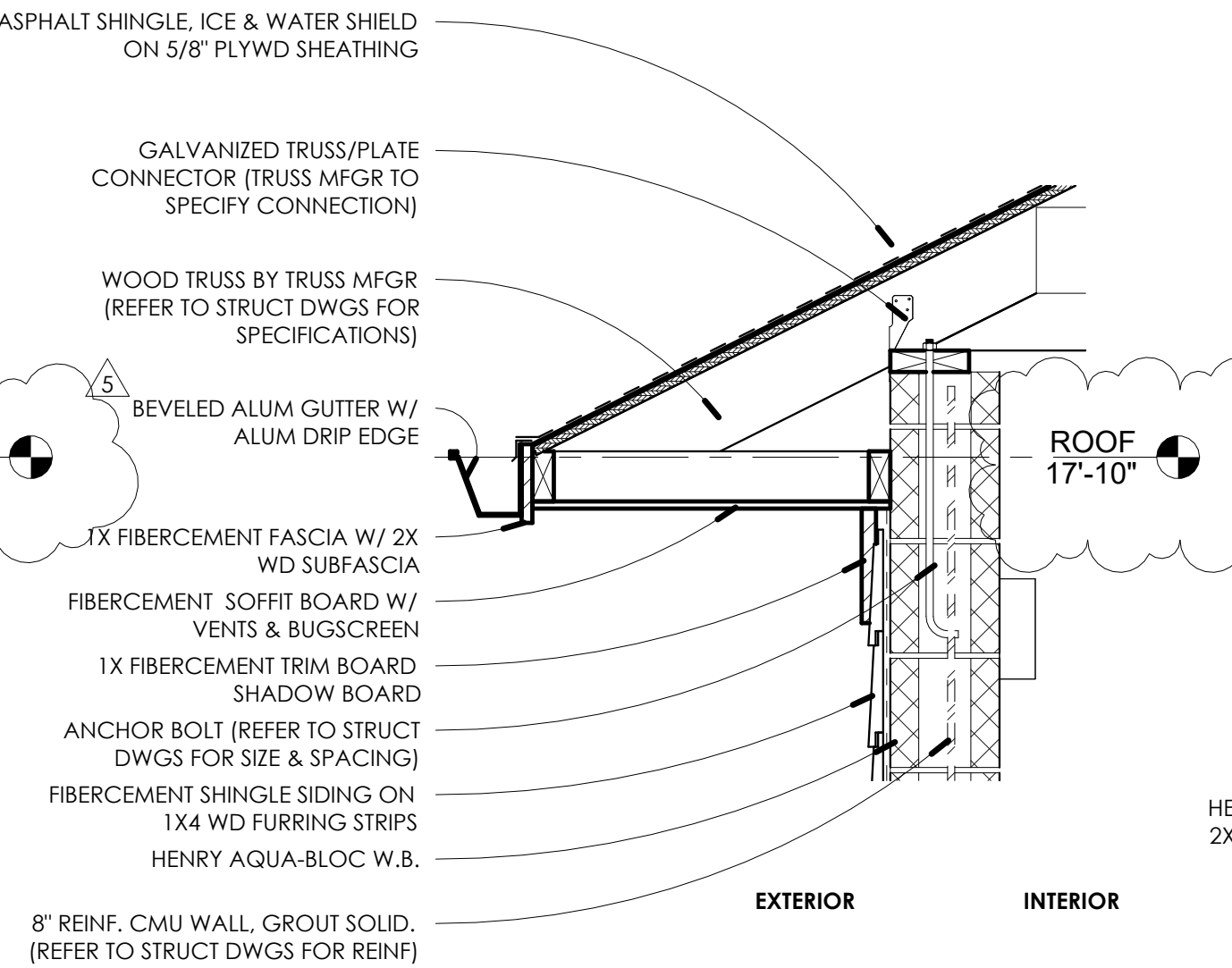
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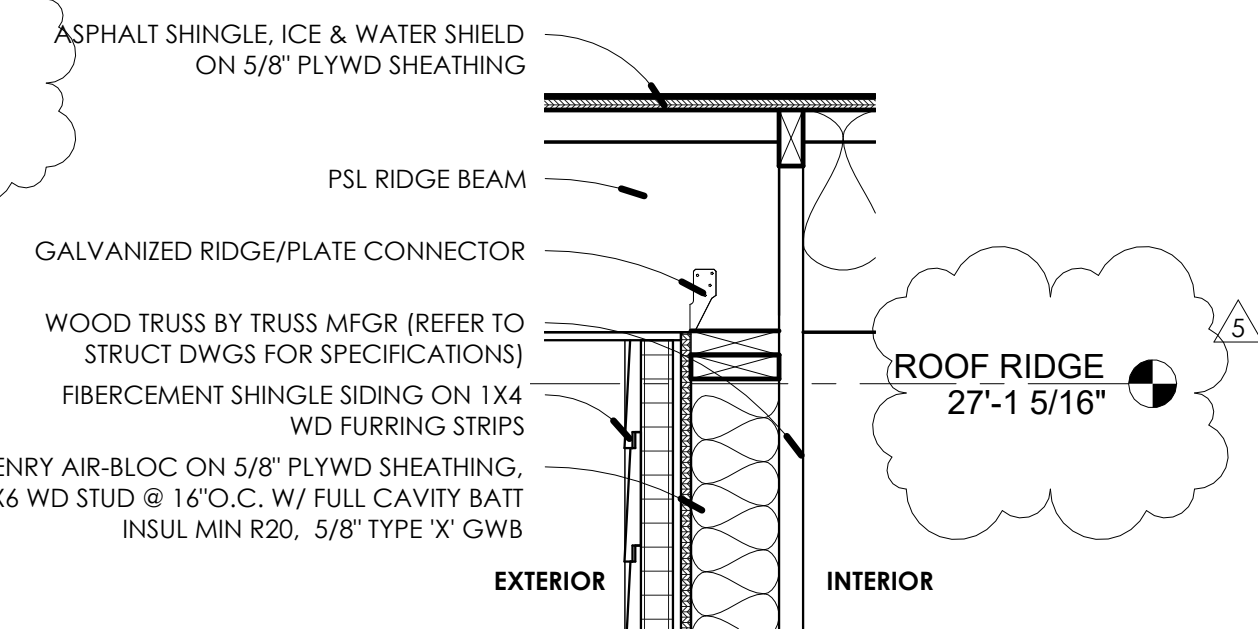
12 ROOF EAVE DETAIL - 3
1" = 1'-0"



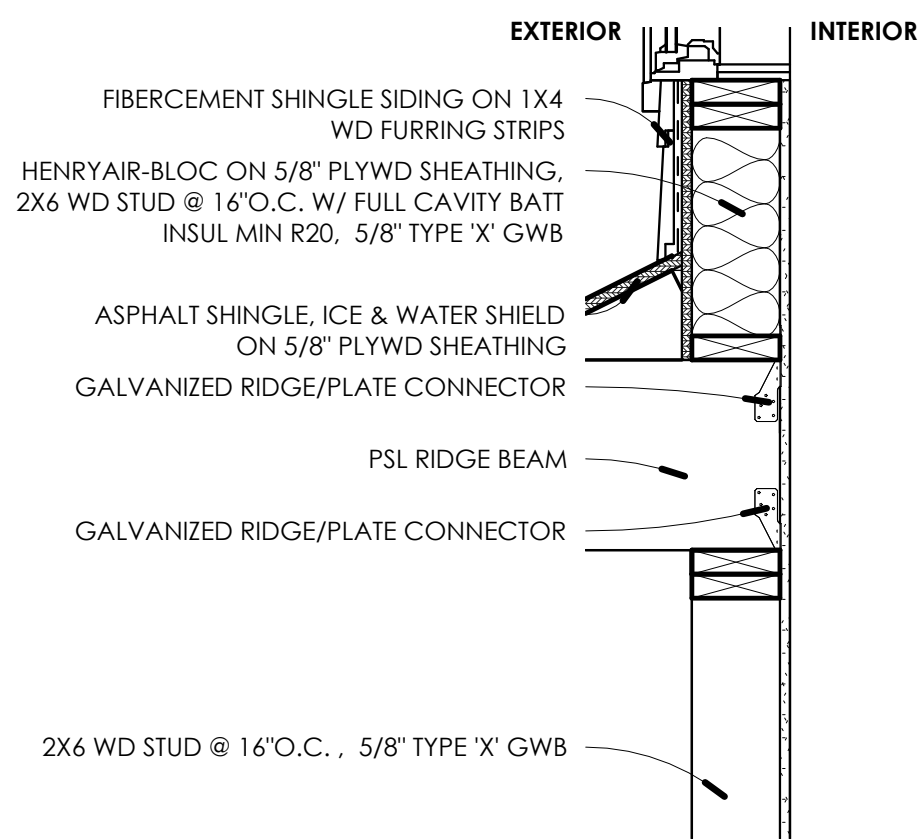
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1" = 1'-0"



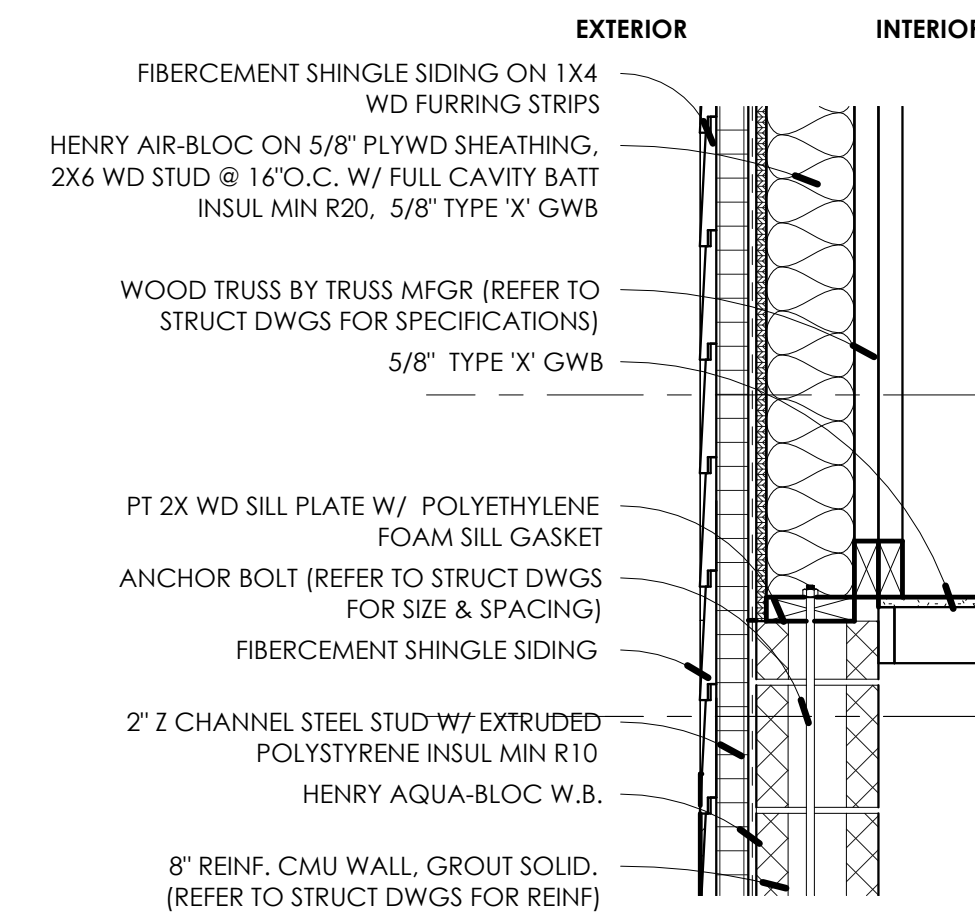
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1" = 1'-0"



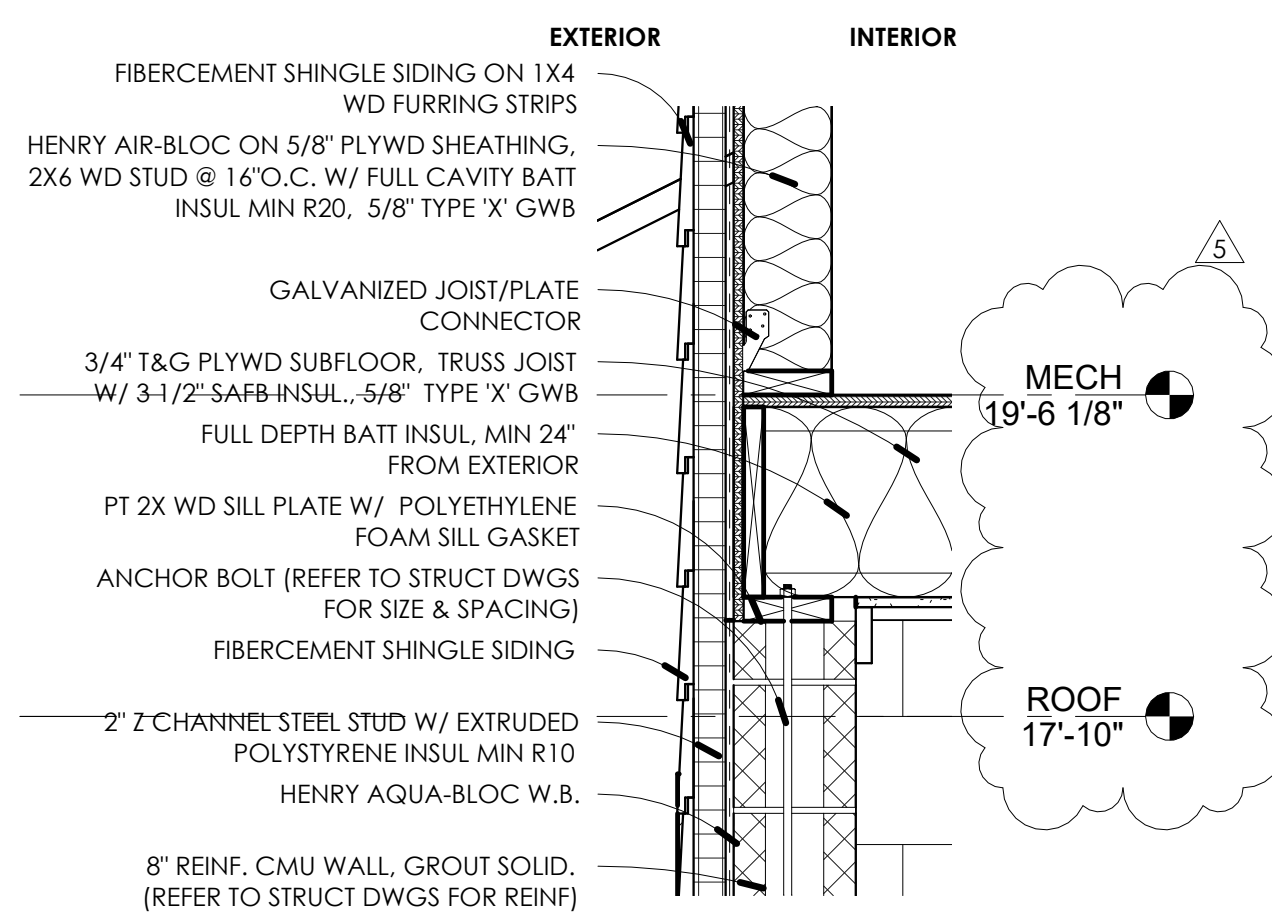
9 ROOF/WALL DETAIL - 2
1" = 1'-0"



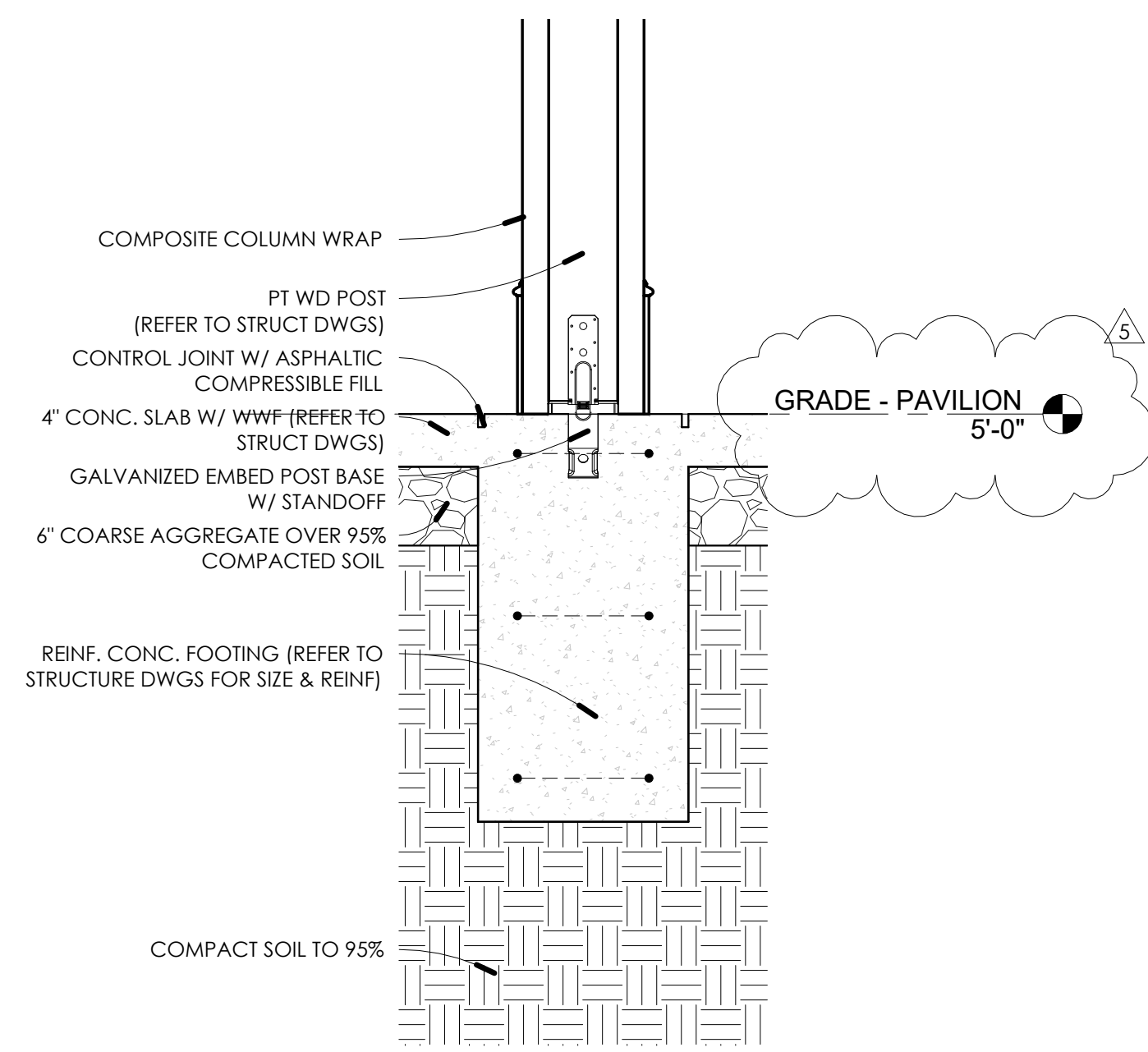
8 ROOF/WALL DETAIL - 1
1" = 1'-0"



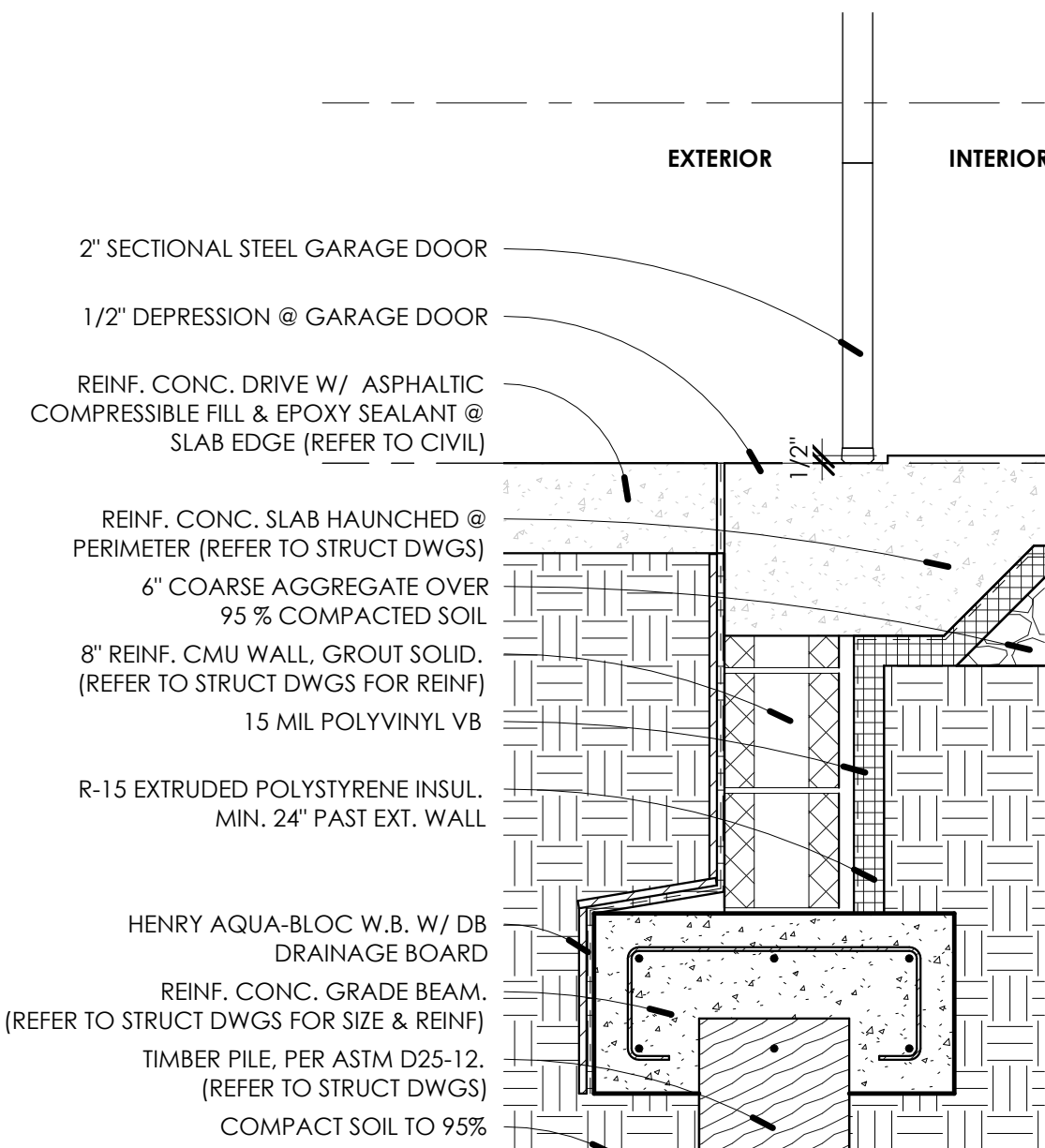
7 FLOOR/WALL DETAIL - 2
1" = 1'-0"



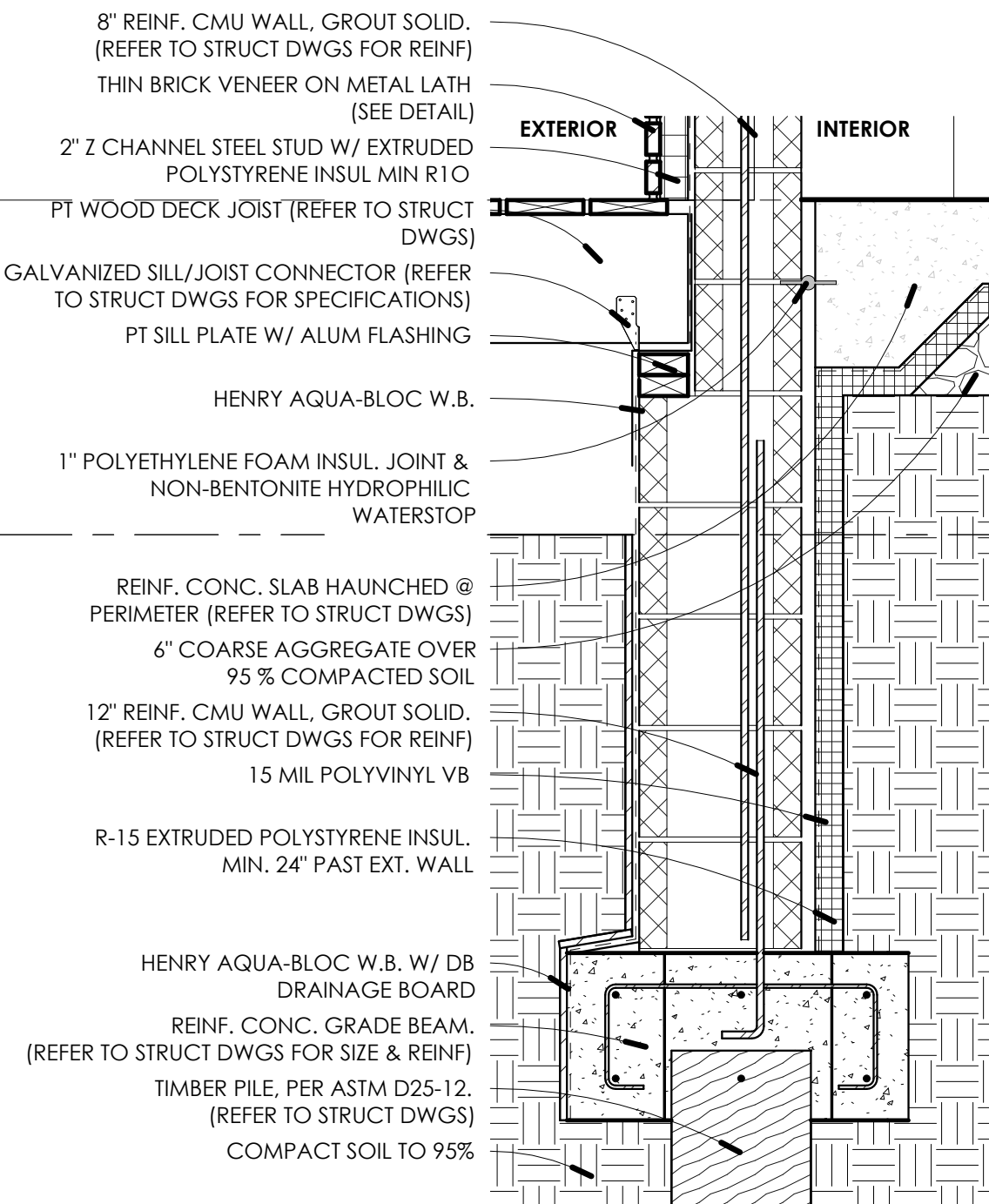
6 FLOOR/WALL DETAIL - 1
1" = 1'-0"



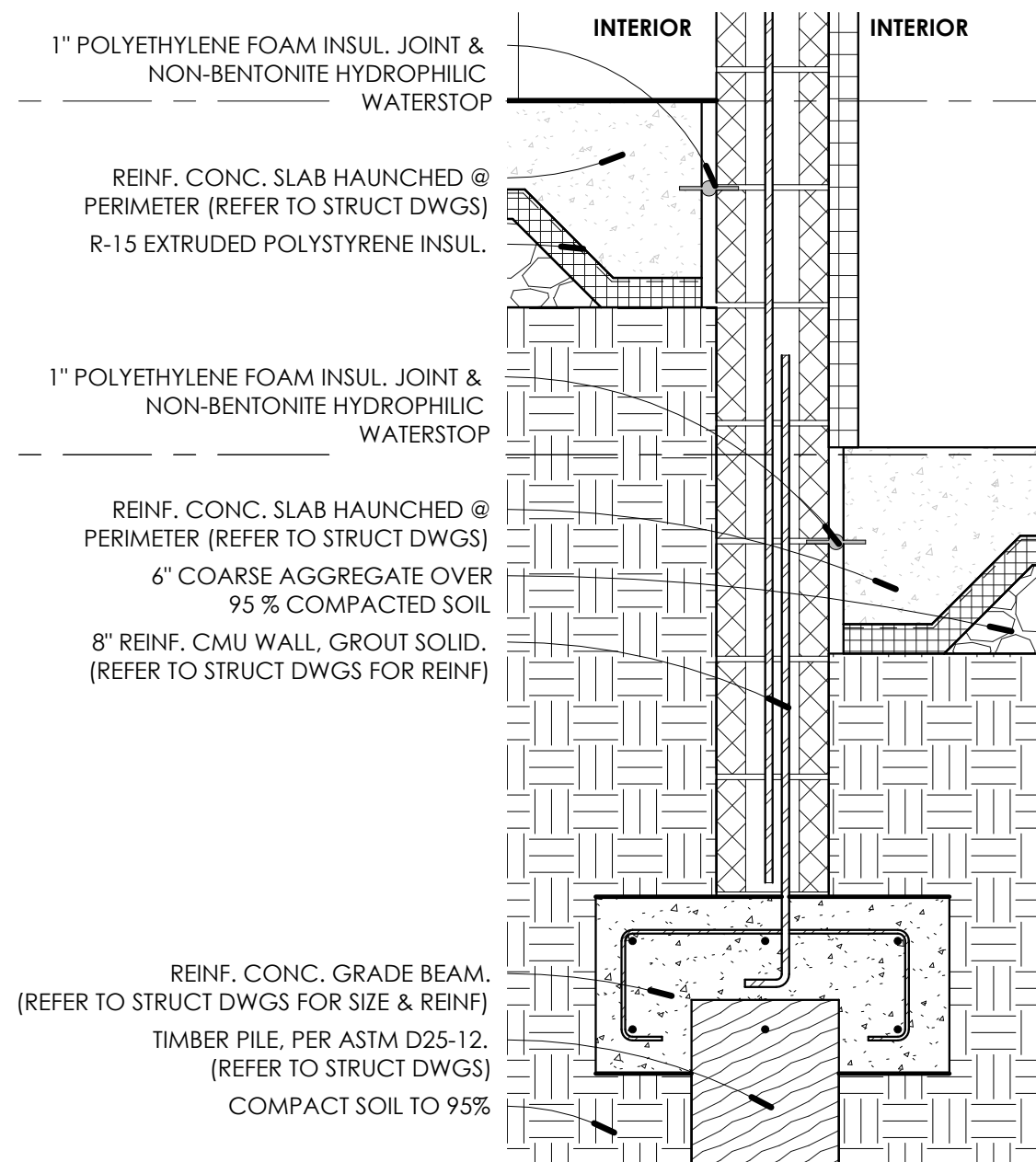
5 FOOTING DETAIL - 5
1" = 1'-0"



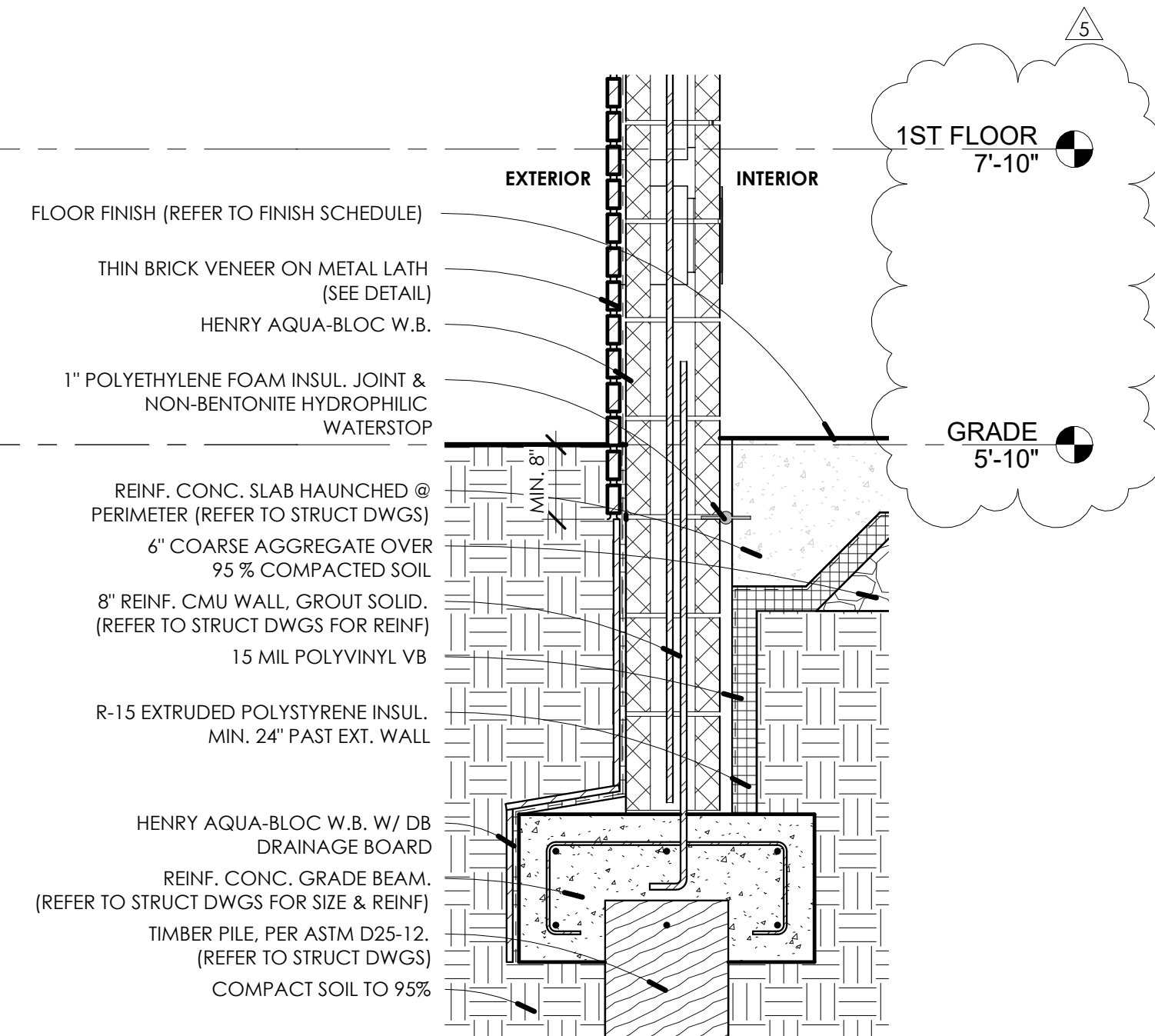
4 FOOTING DETAIL - 4
1" = 1'-0"



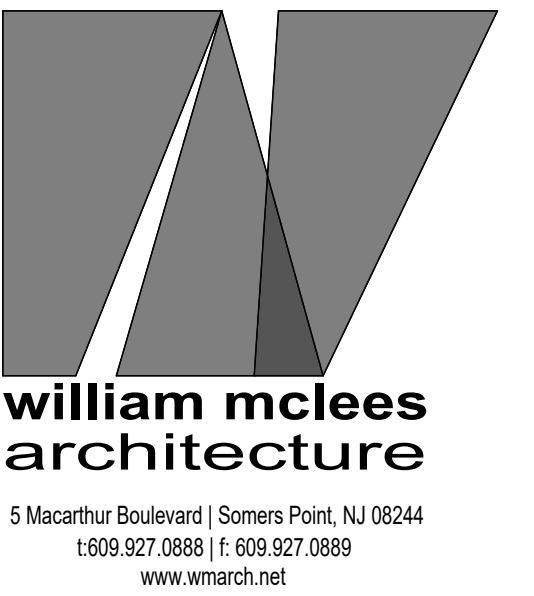
3 FOOTING DETAIL - 3
1" = 1'-0"



2 FOOTING DETAIL - 2
1" = 1'-0"



1 FOOTING DETAIL - 1
1" = 1'-0"



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A1 14054
RA403479

William C. McLees

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NEW CONSTRUCTION:
34TH STREET
SANDCASTLE PARK
OPERATIONS
BUILDING

BLOCK 3403, LOTS 1 & 2
CITY OF OCEAN CITY
CAPE MAY COUNTY
NEW JERSEY
08226

PERMIT SET

No.	Description	Date
2	OWNER REVISIONS	08.24.26
3	PERMIT ISSUE	09.11.26
4	REVISION 1	09.22.26
5	CODE REVIEW COMMENTS	09.25.26

DETAILS

Scale 1" = 1'-0"
Drawn by AJS
Date 07.06.26

A5.01

Comission no. 250350

9/25/2026 9:24:53 AM

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NEW CONSTRUCTION:
**34TH STREET
SANDCASTLE PARK
OPERATIONS
BUILDING**

BLOCK 3403, LOTS 1 & 2
CITY OF OCEAN CITY
CAPE MAY COUNTY
NEW JERSEY
08226

PERMIT SET

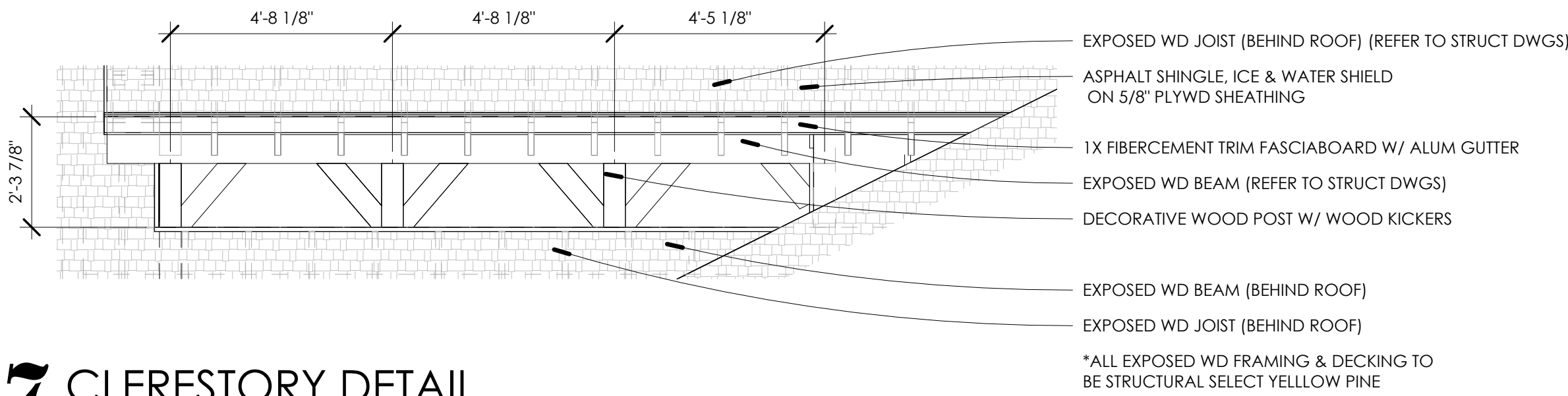
No.	Description	Date
2	OWNER REVISIONS	08.24.26
3	PERMIT ISSUE	09.11.26
4	REVISION 1	09.22.26
5	CODE REVIEW COMMENTS	09.25.26

DETAILS

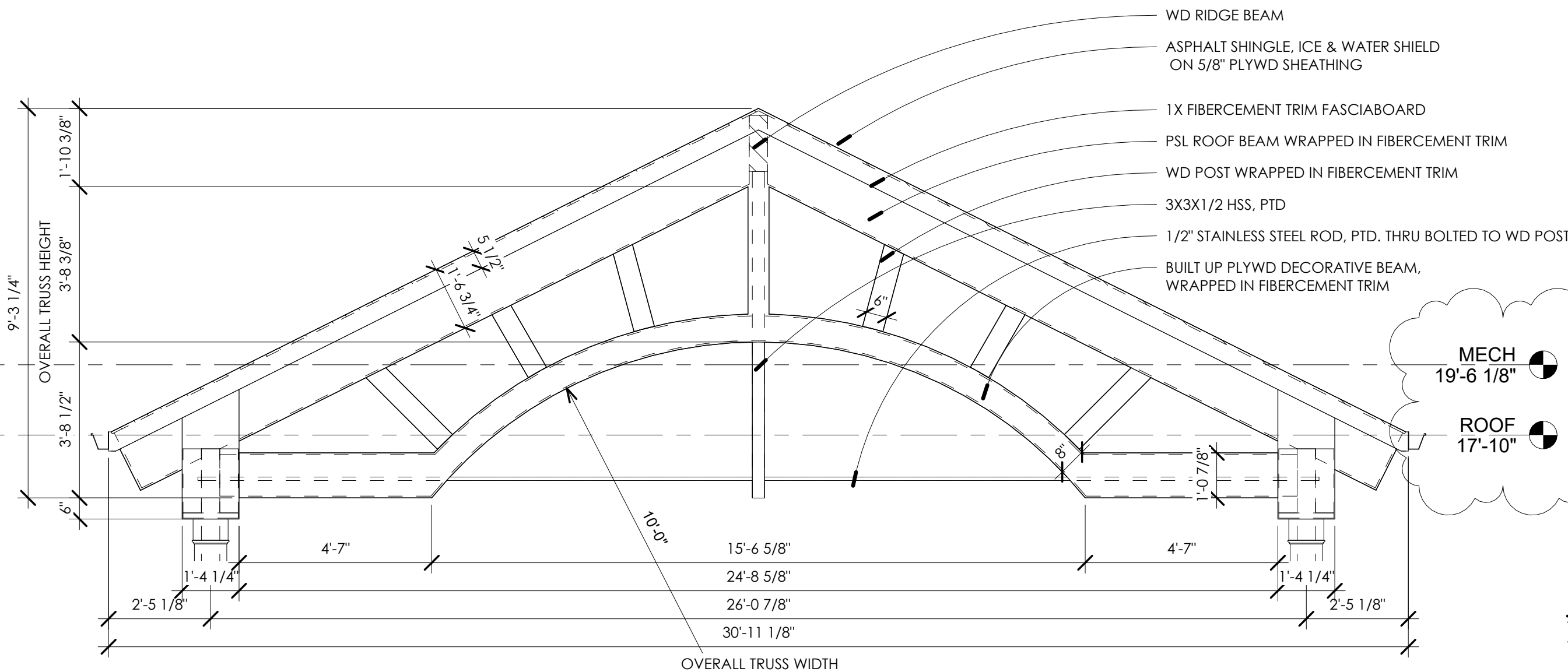
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Drawn by: AJS
Date: 07.06.26

A5.02

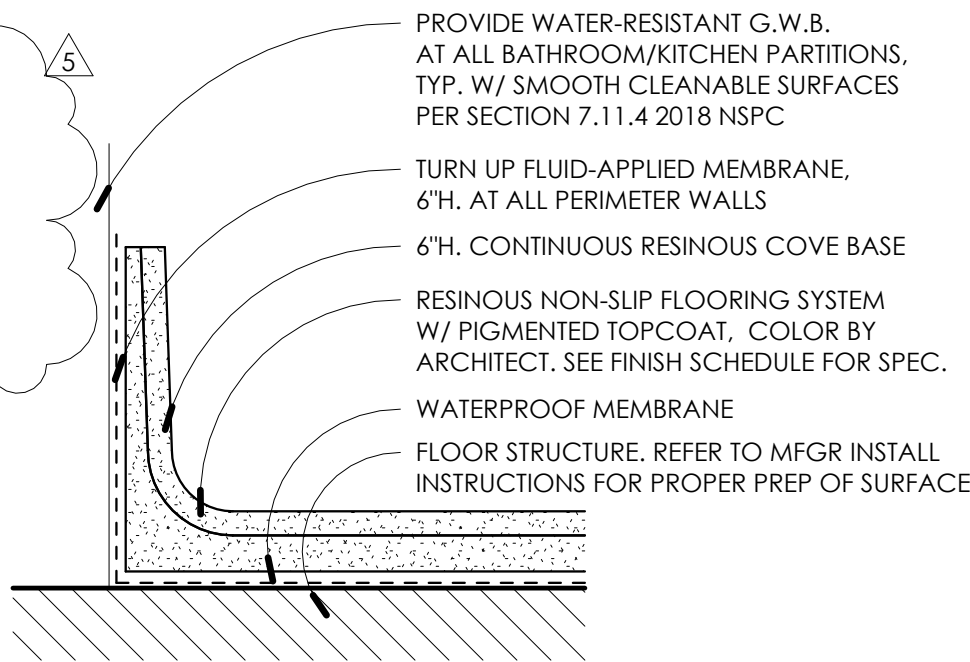
Comision no. 250350



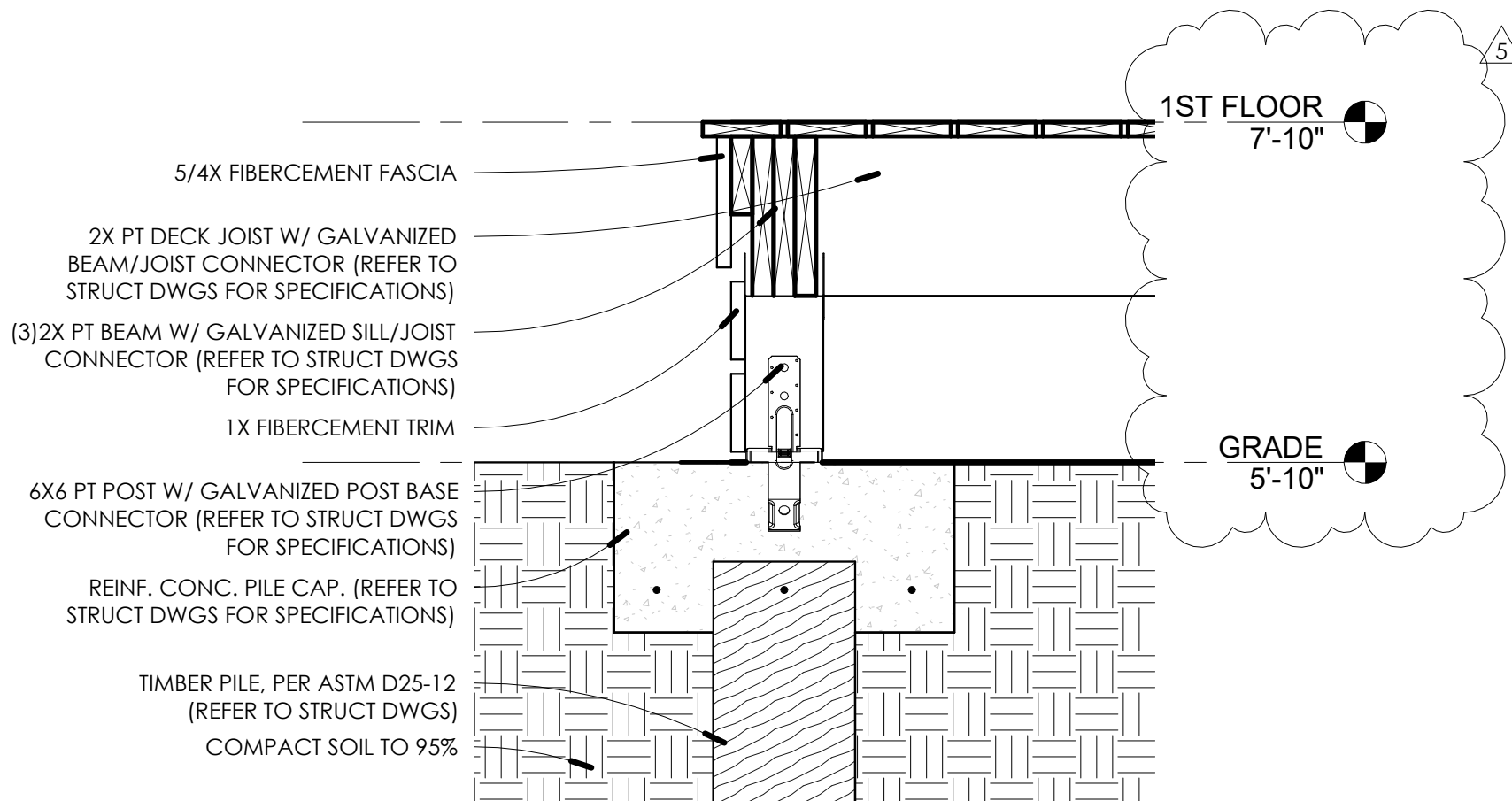
7 CLERESTORY DETAIL
3/8" = 1'-0"



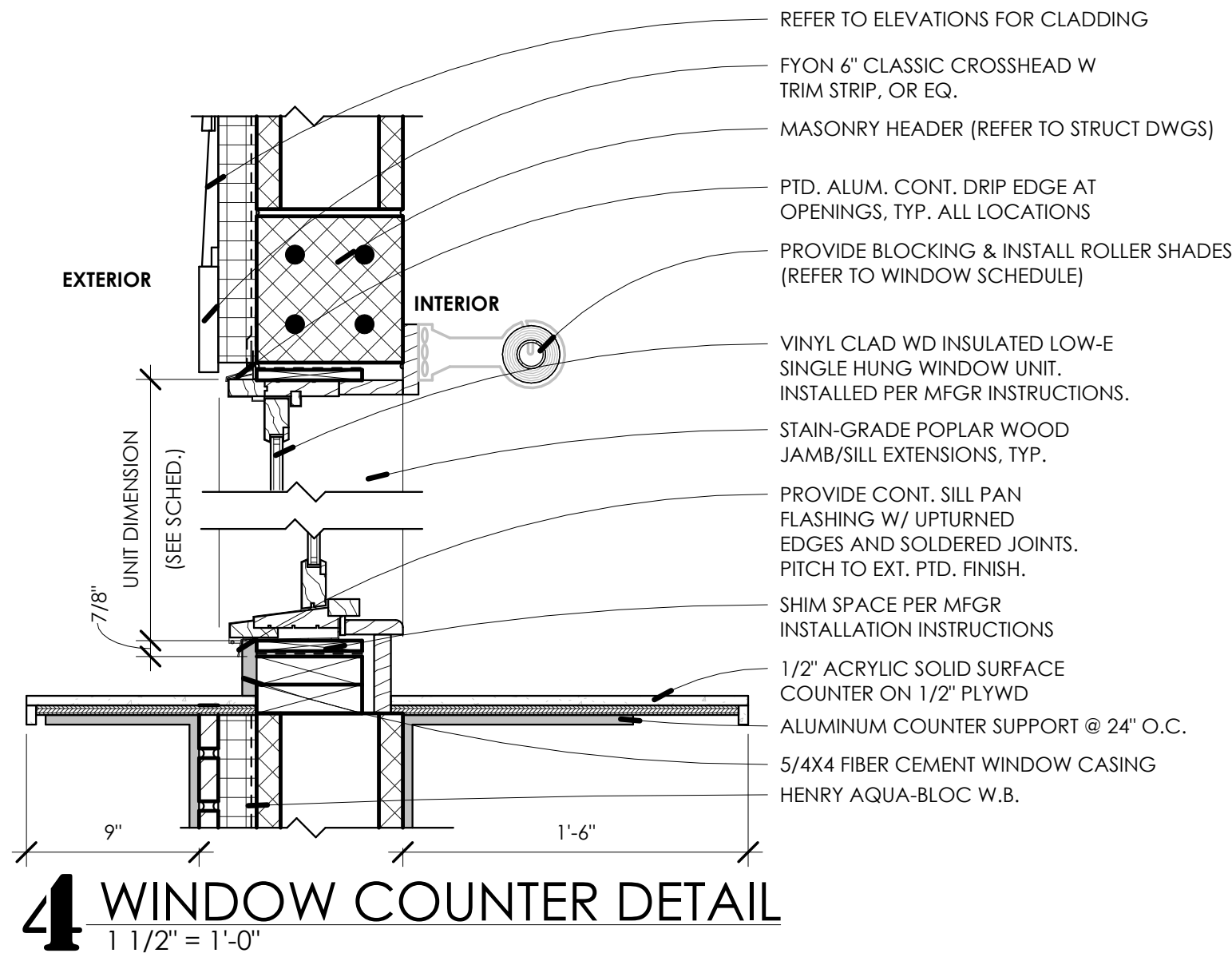
6 TRUSS DETAIL
3/8" = 1'-0"



5 RESINOUS FLOOR DETAIL
3" = 1'-0"



8 DECK SECTION
1" = 1'-0"



4 WINDOW COUNTER DETAIL
1 1/2" = 1'-0"

NEW CONSTRUCTION:
34TH STREET
SANDCASTLE PARK
OPERATIONS
BUILDING

BLOCK 3403, LOTS 1 & 2
CITY OF OCEAN CITY
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08226

PERMIT SET

No.	Description	Date
3	PERMIT ISSUE	09.11.26
4	REVISION 1	09.22.26
5	CODE REVIEW COMMENTS	09.25.26

DOOR & WINDOW
LEGENDS,
SCHEDULES, &
DETAILS

Scale As indicated
Drawn by AJS
Date 07.06.26

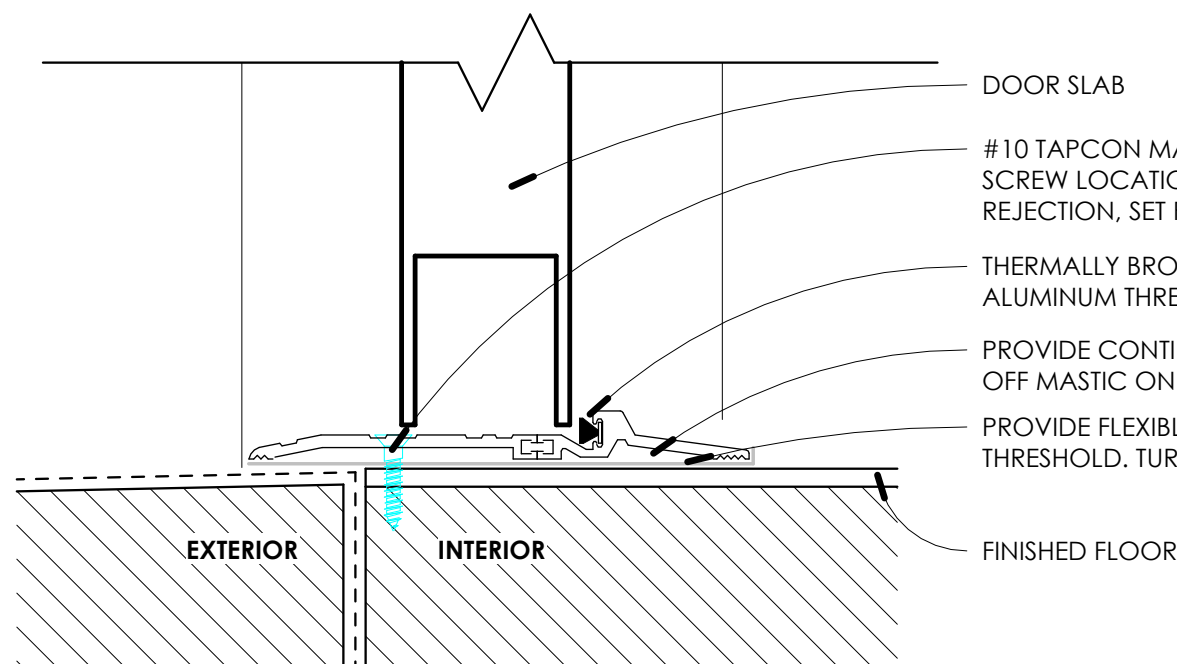
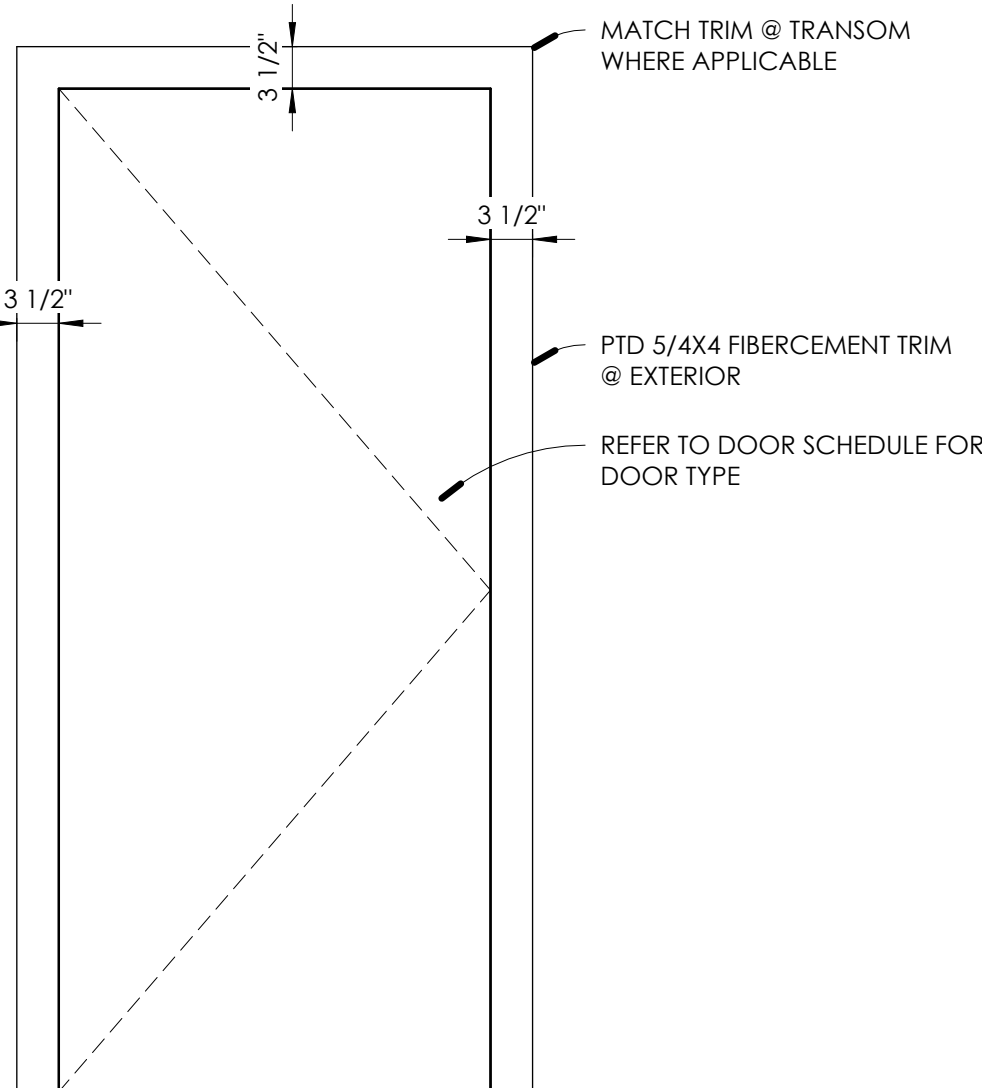
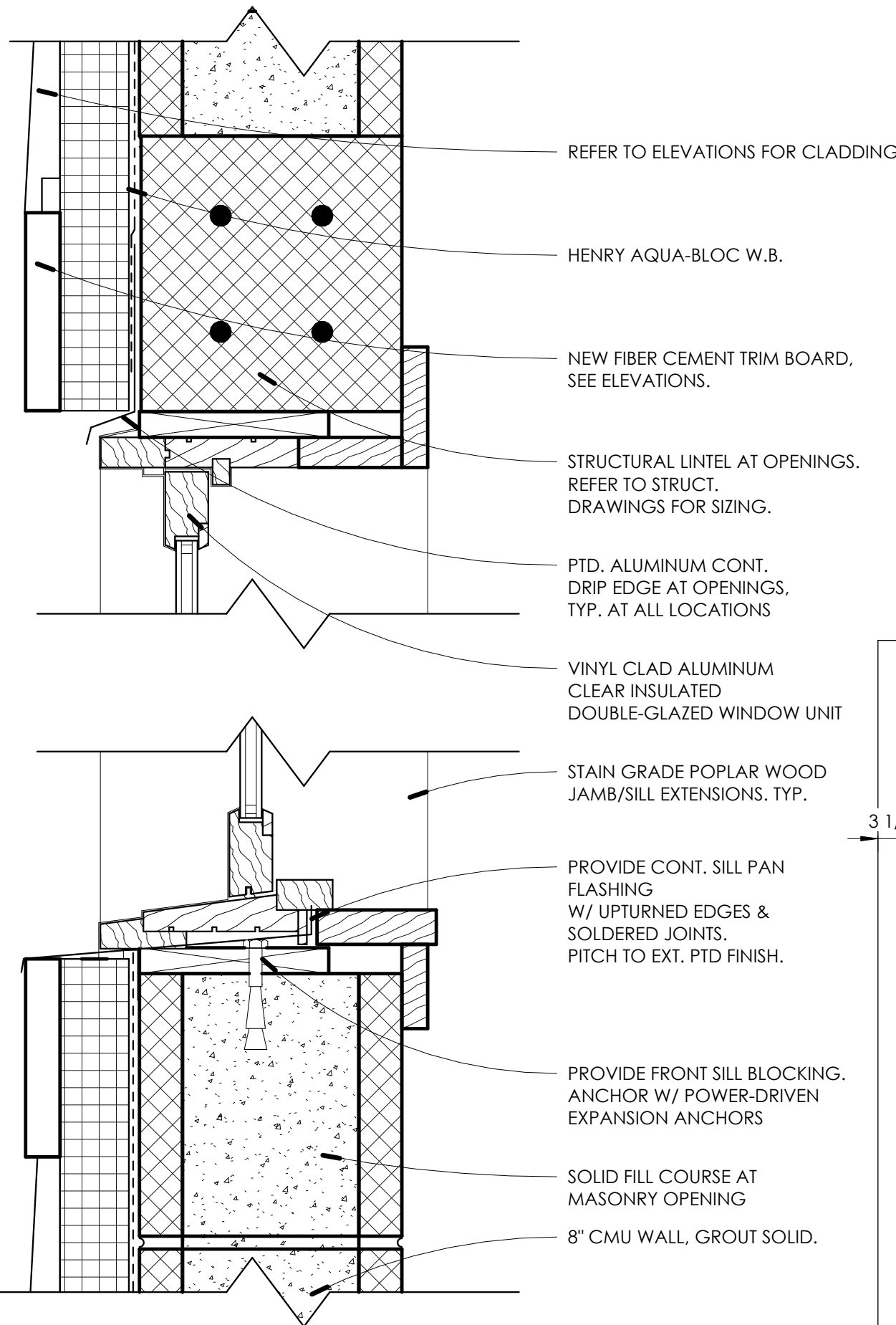
A6.10

Comission no. 250350

WINDOW SCHEDULE								
MARK	UNIT TYPE	MFG	MODEL	TYPE	WIDTH	HEIGHT	ROLLER SHADE	NOTES
101	D	Andersen Corporation	CTR3010	400 SERIES TRANSOM	2'-11 15/16"	1'-0"	-	OMIT FOR DEDUCT ALT 'D'
102	D	Andersen Corporation	CTR3010	400 SERIES TRANSOM	2'-11 15/16"	1'-0"	-	OMIT FOR DEDUCT ALT 'D'
103	D	Andersen Corporation	CTR3010	400 SERIES TRANSOM	2'-11 15/16"	1'-0"	-	OMIT FOR DEDUCT ALT 'D'
104	D	Andersen Corporation	CTR3010	400 SERIES TRANSOM	2'-11 15/16"	1'-0"	-	OMIT FOR DEDUCT ALT 'D'
105	D	Andersen Corporation	CTR3010	400 SERIES TRANSOM	2'-11 15/16"	1'-0"	-	OMIT FOR DEDUCT ALT 'D'
106	D	Andersen Corporation	CTR3010	400 SERIES TRANSOM	2'-11 15/16"	1'-0"	-	OMIT FOR DEDUCT ALT 'D'
109A	D	Andersen Corporation	CTR3010	400 SERIES TRANSOM	2'-11 15/16"	1'-0"	-	OMIT FOR DEDUCT ALT 'D'
109B	B	Andersen Corporation	G64	400 SERIES GLDING	5'-11 1/4"	3'-11 1/4"	YES	
109C	E	Andersen Corporation	CTR6010	400 SERIES TRANSOM	5'-11 5/8"	1'-0"	YES	OMIT FOR DEDUCT ALT 'D'
109D	A	Andersen Corporation	TW26310	400 SERIES TILT-WASH DOUBLE HUNG	2'-7 5/8"	4'-0 7/8"	YES	
109E	C	Andersen Corporation	CTR2610	400 SERIES TRANSOM	2'-7 1/2"	1'-0"	YES	OMIT FOR DEDUCT ALT 'D'
200C	F	Andersen Corporation	A221	400 SERIES AWNING	4'-0"	2'-0 1/8"	-	
200E	F	Andersen Corporation	A221	400 SERIES AWNING	4'-0"	2'-0 1/8"	-	
200F	F	Andersen Corporation	A221	400 SERIES AWNING	4'-0"	2'-0 1/8"	-	
200G	F	Andersen Corporation	A221	400 SERIES AWNING	4'-0"	2'-0 1/8"	-	
200H	F	Andersen Corporation	A221	400 SERIES AWNING	4'-0"	2'-0 1/8"	-	
200I	F	Andersen Corporation	A221	400 SERIES AWNING	4'-0"	2'-0 1/8"	-	

WINDOW NOTES:

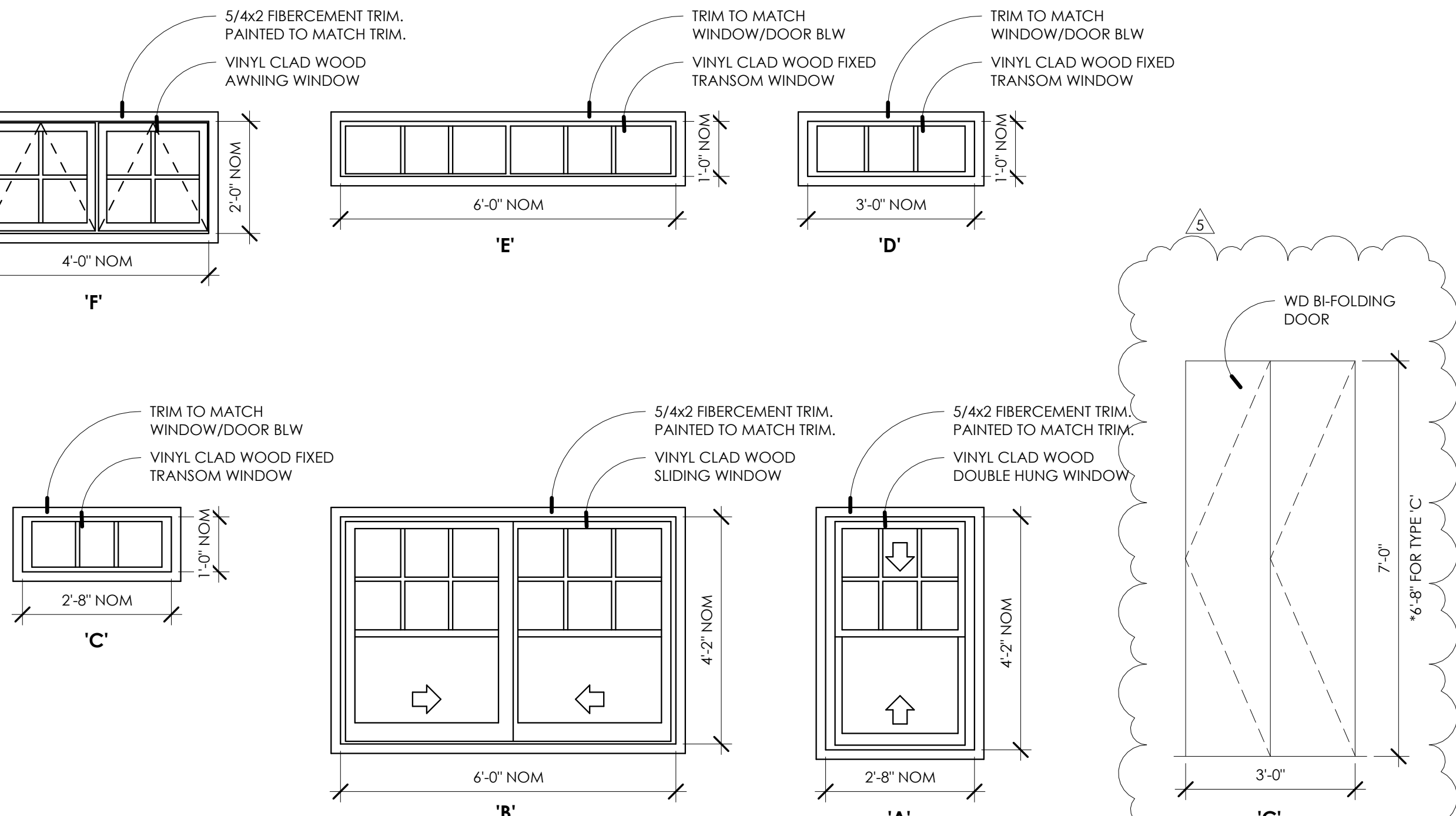
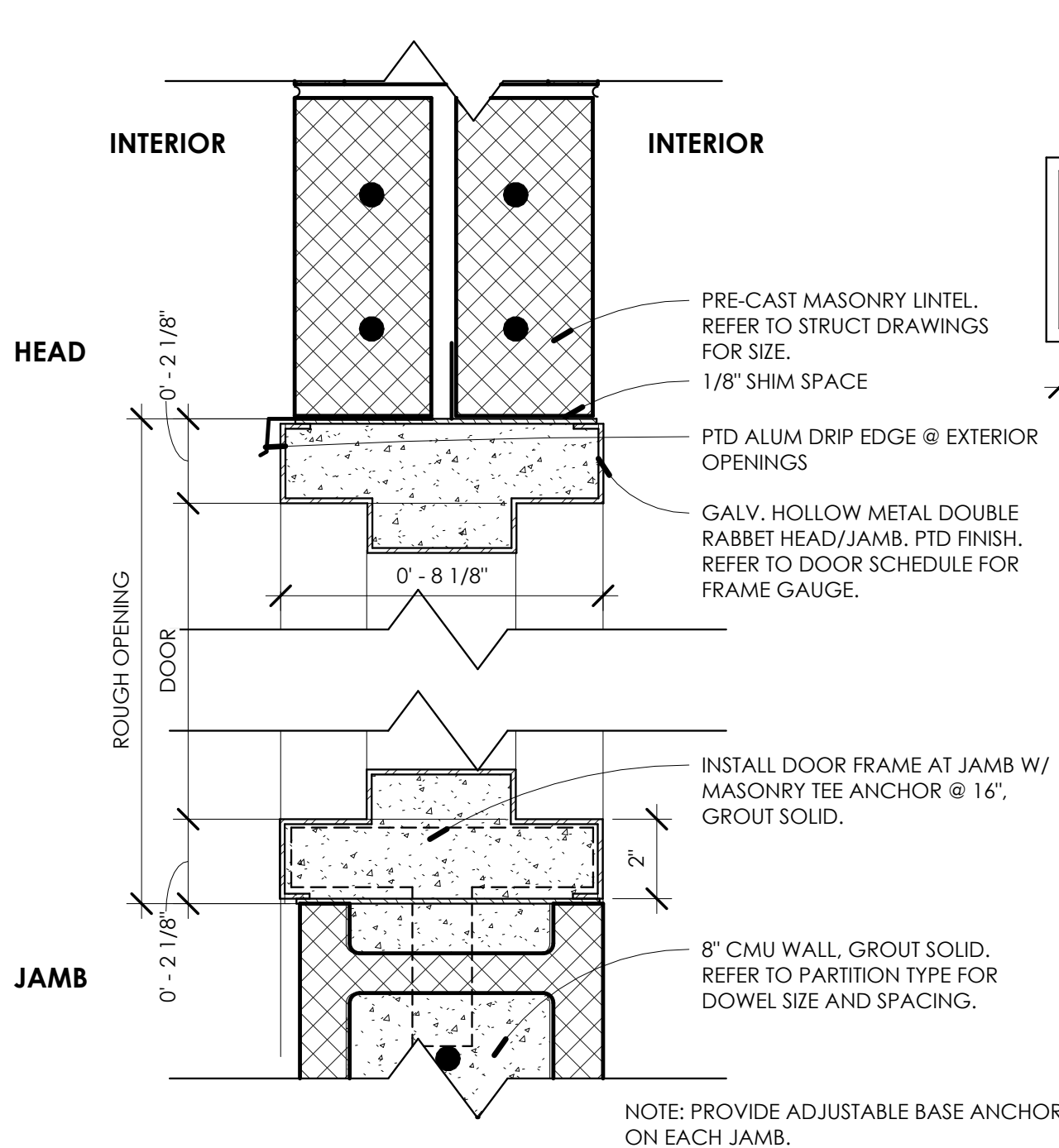
1. ALL WINDOWS TO BE 1" CLEAR LOW-E INSULATED GLASS TO MEET ASHRAE 90.1 2019 GLAZING REQUIREMENTS UNLESS OTHERWISE NOTED.
2. INTERIOR CASING TO BE STAIN GRADE FINISH. PROVIDE JAMB EXTENSIONS FOR ALL WINDOWS.
3. SCREENS REQUIRED FOR ALL WINDOWS.
4. PROVIDE OPENING CONTROL DEVICES AT SILLS 24" OR LESS.
5. ALL EXTERIOR WINDOWS TO RECEIVE IMPACT GLAZING.
6. WHEN WINDOWS ARE STACKED PROVIDE A SINGLE ROLLER SHADE TO THE MULLED LENGTH OF THE ASSEMBLY.



6 HEAD/JAMB DETAIL - WINDOW
3" = 1'-0"

4 DOOR TRIM DETAIL
3/4" = 1'-0"

3 EXT. THRESHOLD DETAIL
6" = 1'-0"



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

DOOR SCHEDULE									
NUMBER	WIDTH	HEIGHT	DOOR MATERIAL	DOOR TYPE	FRAME MATERIAL	RATING	HARDWARE	ELECTRIC KEY FOB	NOTES
001A	3'-0"	7'-0"	FG	A	FG	-	1	YES	
001B	16'-2"	8'-0"	STL	B	-	-	2	-	
001C	3'-0"	7'-0"	FG	A	FG	-	1	YES	
001D	3'-0"	7'-0"	A	A	-	-	-	-	
101	3'-0"	7'-0"	FG	A	FG	-	3	-	
102	3'-0"	7'-0"	FG	A	FG	-	3	-	
103	3'-0"	7'-0"	FG	A	FG	-	3	-	
104	3'-0"	7'-0"	FG	A	FG	-	3	-	
105	3'-0"	7'-0"	FG	A	FG	-	3	-	
106	3'-0"	7'-0"	FG	A	FG	-	3	-	
107	3'-0"	7'-0"	FG	A	FG	-	4	-	
108	3'-0"	7'-0"	FG	A	FG	-	5	-	
109A	3'-0"	7'-0"	FG	A	FG	-	1	YES	
109B	3'-0"	7'-0"	FG	A	FG	-	-	-	
109C	3'-0"	7'-0"	FG	A	FG	-	-	-	
109D	3'-0"	7'-0"	WD	C	WD	-	-	-	
200	3'-0"	6'-8"	FG	A	FG	-	-	-	

DOOR NOTES:

1. DOOR CONSTRUCTION TYPES:
FG=FIBERGLASS, AL=ALUMINUM, POLY=POLYCARBONATE, GL=GLAZING, FRP=FIBER REINFORCED PLASTIC, WD=WOOD, HM=HOLLOW METAL, STL=STEEL
2. ALL EXTERIOR DOORS ARE TO BE INSULATED.
3. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ALL DETAILS AND CONDITIONS, MATERIALS ETC.
4. ALL DOOR HARDWARE TO BE ADA COMPLIANT.
5. ALL KEYING FOR LOCKSETS SHALL BE COORDINATED W/ OWNER.
6. ALL EXTERIOR DOORS SHALL BE PROVIDED WITH AN ADA COMPLIANT THERMALLY BROKEN LATCHING SADDLE THRESHOLD & AUTOMATIC DOOR BOTTOMS.
7. FIRE-RESISTANT-RATED GLAZING TESTED TO ASTM E119 REQUIRED IN FIRE RATED DOORS.
8. ALL GLAZED EXTERIOR DOORS TO RECEIVE IMPACT GLAZING.
9. ALL DOOR HARDWARE TO HAVE A SATIN STAINLESS STEEL FINISH.
10. ALL DOORS IN MASONRY WALLS TO RECEIVE MASONRY JAMBS AND HEADS.
12. ALL RESTROOM DOORS TO BE UNDERCUT 1" TYP.

HARDWARE SETS

LOCKSET

1. STORAGE (EXTERIOR)

- LOCKSET: CORBIN RUSSWIN ML2000 SERIES STOREROOM FUNCTION ADA 'REGIS' LEVER
HINGES: (3) MCKINNEY FIVE KNUCKLE STAINLESS STEEL FULL MORTISE HINGE
CLOSER: NORTON 7500 SERIES SURFACE CLOSER
GASKETING: PEMKO KERF-IN THERMOPLASTIC BULB
SWEEP: PEMKO FULL MORTISE AUTOMATIC DOOR BOTTOM
STOP: CLOSER MOUNTED STOP
THRESHOLD: PEMKO ADA COMPLIANT THERMAL BARRIER LATCHING SADDLE ALUMINUM THRESHOLD

2. OVERHEAD

REFER TO SPECIFICATIONS

3. RESTROOM

- LOCKSET: CORBIN RUSSWIN ML2000 SERIES RESTROOM FUNCTION ADA 'REGIS' LEVER
HINGES: (3) MCKINNEY FIVE KNUCKLE STAINLESS STEEL FULL MORTISE HINGE
GASKETING: PEMKO KERF-IN THERMOPLASTIC BULB
SWEEP: PEMKO FULL MORTISE AUTOMATIC DOOR BOTTOM
STOP: CLOSER MOUNTED STOP
THRESHOLD: PEMKO ADA COMPLIANT THERMAL BARRIER LATCHING SADDLE ALUMINUM THRESHOLD

4. OFFICE

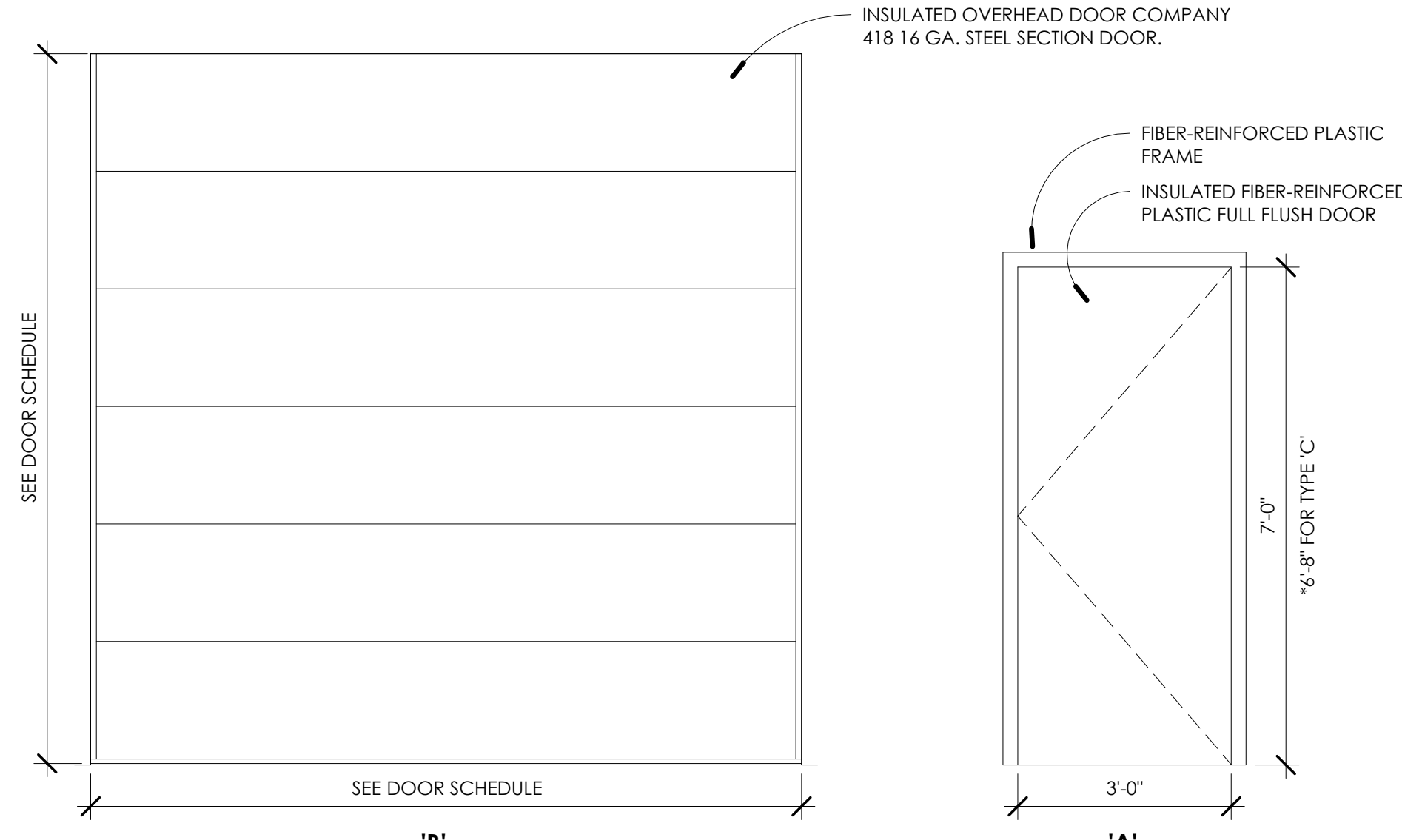
- LOCKSET: CORBIN RUSSWIN ML2000 SERIES OFFICE FUNCTION ADA 'REGIS' LEVER
HINGES: (3) MCKINNEY FIVE KNUCKLE STAINLESS STEEL FULL MORTISE HINGE
CLOSER: NORTON 7500 SERIES SURFACE CLOSER
GASKETING: PEMKO KERF-IN THERMOPLASTIC BULB
SWEEP: PEMKO FULL MORTISE AUTOMATIC DOOR BOTTOM
STOP: CLOSER MOUNTED STOP
THRESHOLD: PEMKO ADA COMPLIANT THERMAL BARRIER LATCHING SADDLE ALUMINUM THRESHOLD

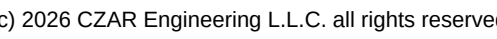
5. STORAGE (INTERIOR)

- LOCKSET: CORBIN RUSSWIN ML2000 SERIES STOREROOM FUNCTION ADA 'REGIS' LEVER
HINGES: (3) MCKINNEY FIVE KNUCKLE STAINLESS STEEL FULL MORTISE HINGE
CLOSER: NORTON 7500 SERIES SURFACE CLOSER
GASKETING: PEMKO KERF-IN THERMOPLASTIC BULB
SWEEP: PEMKO FULL MORTISE AUTOMATIC DOOR BOTTOM
STOP: CLOSER MOUNTED STOP
THRESHOLD: PEMKO ADA COMPLIANT THERMAL BARRIER LATCHING SADDLE ALUMINUM THRESHOLD

6. BI-FOLD

BI-FOLD DOOR HARDWARE

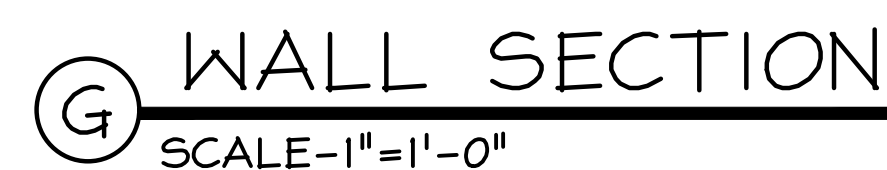
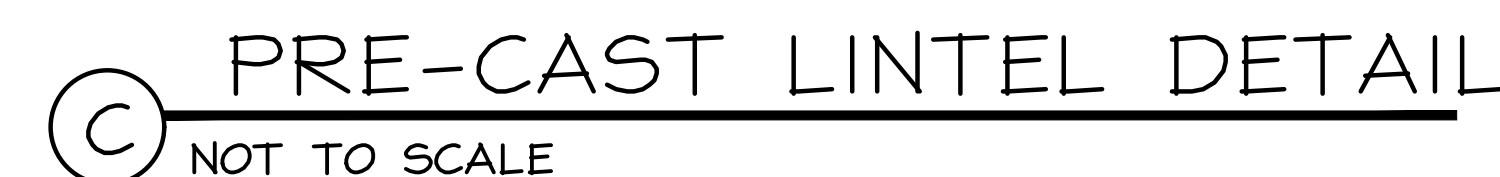
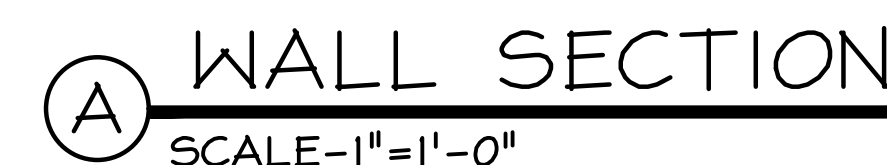




Commission no. 250350

SCALE-3/16"=1'-0"

SCALE-3/16"=1'-0"



NOTES: 1) ALL CONCRETE LINTELS SHALL BE 4000 PSI CONCRETE
AT 28 DAYS WITH GRADE 60 REINFORCING
2) ALL STEEL LINTELS SHALL BE ASTM A-36.
3) FILL C.M.U. VOIDS SOLID (2) COURSES BELOW LINTEL BEARING.
4) ALL LINTELS SHALL HAVE 8" MINIMUM BEARING U.N.O.

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34TH STREET PARK

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CITY OF OCEAN CITY
CAPE MAY COUNTY
NEW JERSEY
08226

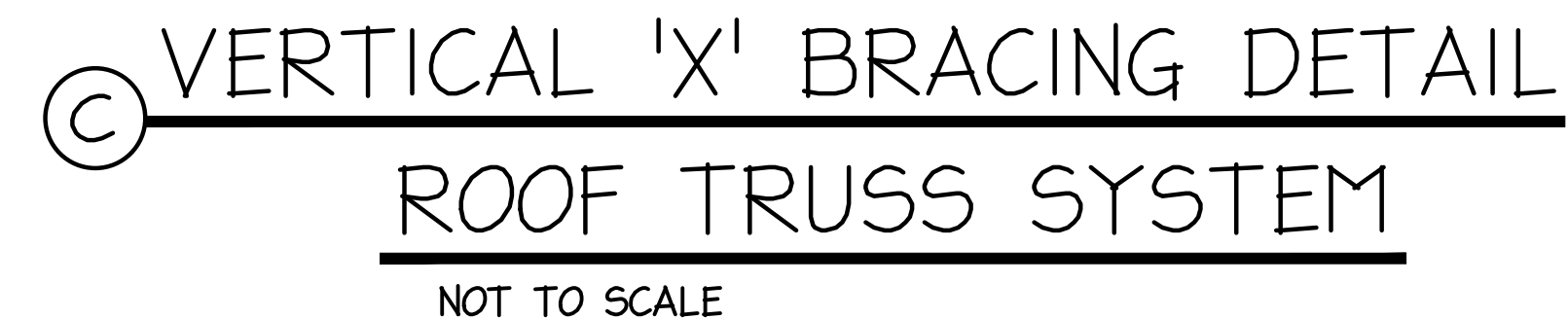
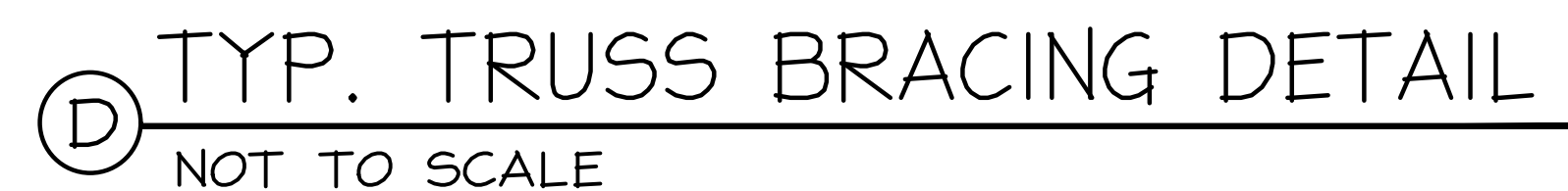
No.	Description	Date
	ADDENDUM #1	7/21/06

SECTIONS & DETAILS

Scale	
Drawn by	ACE
Date	7/6/2

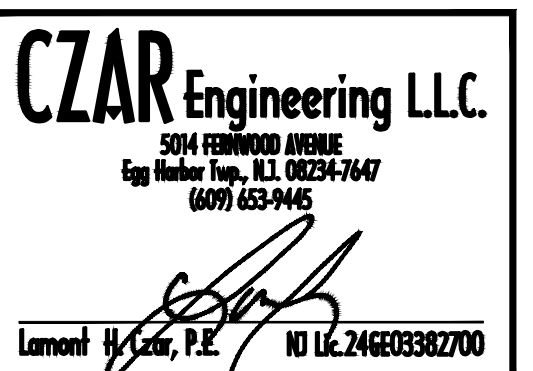
S-3

Comission no.	250350
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TEMPORARY BRACING IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE IN ACCORDANCE WITH WOOD TRUSS COUNCIL OF AMERICA WTCA-B2

1. ROOF TRUSS BRACING PER ENGINEER
2. FOR FLATED TRUSS NOTES, SEE SPECIFICATION BOOK
3. ITEMS SHOWN ON ONE AREA SAME FOR OTHER AREAS OF PLAN
4. FOR DIAGONAL WEB BRACING, SEE MANUFACTURER'S REQUIREMENTS AND COMPLY WITH TPI STANDARDS
5. INSTALL PLYWOOD SHEATHING IMMEDIATELY UPON INSTALLING FIRST 5 TRUSSES & FOLLOW UP ROOF TO PREVENT TRUSSES FROM ROTATING. PLUMB TRUSSES PRIOR TO INSTALLING ROOF SHEATHING.



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08226

[illegible]

SECTIONS & DETAILS

Scale	
Drawn by	ACE
Date	7/6/26

S-4

Comission no.	250350
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ABBREVIATIONS		PIPING SYMBOLS		DUCTWORK SYMBOLS		APPLICABLE CODES	MECHANICAL SPECIFICATIONS
AC CD CHWS CHWR COND CU DCW DHW DHW HWR HWR HHWS HHWR RA SA TG (E) (N) (R) AIR CONDITIONING UNIT CEILING DIFFUSER CHILLED WATER SUPPLY CHILLED WATER RETURN CONDENSATE CONDENSING UNIT DOMESTIC COLD WATER DOMESTIC HOT WATER DOMESTIC HOT WATER RECIRC. HOT WATER HOT WATER RECIRC. HEATING HOT WATER SUPPLY HEATING HOT WATER RETURN RETURN AIR SUPPLY AIR TRANSFER GRILLE EXISTING NEW REMOVE		SYMBOL DESCRIPTION MANUAL BALANCING VALVE WITH PRESSURE TAPS BALL VALVE GATE VALVE GLOBE VALVE BUTTERFLY VALVE PLUG VALVE VACUUM BREAKER CHECK VALVE ANGLE SHUTOFF VALVE ANGLE BALANCING/SHUTOFF VALVE TRIPLE DUTY VALVE COMBINATION BALANCING/SHUTOFF VALVE W/PRESSURE TAPS PRESSURE REDUCING VALVE SAFETY/RELIEF VALVE – PLAN AND ELEVATION PUMP – GENERIC PUMP – END SUCTION BASKET STRAINER – ELEVATION AND PLAN Y–STRAINER WITH PLUG Y–STRAINER WITH DRAIN VALVE PRESSURE GAUGE WITH GAUGE COCK PRESSURE GAUGE WITH GAUGE COCK AND BOURDON TUBE THERMOMETER PRESSURE/TEMPERATURE TEST FITTING FLOW METER PIPE UP AND DOWN TEE CONNECTION – STRAIGHT, DOWN, AND UP UNION END CAP BLIND FLANGE PIPE BELLOWS PIPE ANCHOR PIPE GUIDE (SLIDING) PIPE GUIDE (MOMENT) ELECTRICALLY HEAT TRACED PIPING AIR VENT – (MANUAL) AUTOMATIC AIR VENT CONCENTRIC REDUCER ECCENTRIC REDUCER		SYMBOL DESCRIPTION SUPPLY/OUTSIDE AIR DUCT RETURN/EXHAUST AIR DUCT 45° ENTRY TAKEOFF, RECTANGULAR TO RECTANGULAR 90° TAKEOFF, RECTANGULAR TO ROUND, STRAIGHT 90° TAKEOFF, RECTANGULAR TO ROUND BELLMOUTH W/ MANUAL VOLUME DAMPER 90° TAKEOFF, ROUND TO ROUND, STRAIGHT 90° CONICAL TAKEOFF, ROUND TO ROUND 45° CONICAL LATERAL, ROUND TO ROUND 45° LATERAL, ROUND TO ROUND 45° WYE, ROUND TO ROUND END OF DUCT (CAPPED) SIDEWALL AIR TERMINAL W/VD (ARROWS DENOTE THROW DIRECTION) LINEAR DIFFUSER FD FIRE DAMPER – VERTICAL POSITION FIRE DAMPER – HORIZONTAL POSITION FLEXIBLE CONNECTION MANUAL VOLUME DAMPER MOTOR OPERATED DAMPER SMOKE DETECTOR (DUCT–MOUNTED) RETURN/EXHAUST AIR DESIGNATION SUPPLY AIR DESIGNATION SQUARE VANED ELBOW – 90 (NOT REQD IN TRANSFER DUCT) SQUARE NON–VANED ELBOW – 90 RADIUS ELBOW – 90 TRANSITION – CONCENTRIC TRANSITION – ECCENTRIC TRANSITION – RECTANGULAR TO ROUND SUPPLY AIR TERMINAL, CEILING OR DUCT MOUNTED, SQUARE & RECTANGULAR (SHADED AREA(S) DENOTE # & DIRECTION OF BLANKED OFF SECTION(S)) RETURN/EXHAUST REGISTER, CEILING OR DUCT MOUNTED SIDEWALL AIR TERMINAL W/VD (ARROWS DENOTE THROW DIRECTION)		THE FOLLOWING APPLICABLE CODES SHALL BE ADHERED TO FOR THIS PROJECT: 1. BUILDING SUBCODE: INTERNATIONAL BUILDING CODE 2021, NJ EDITION 2. MECHANICAL SUBCODE: INTERNATIONAL MECHANICAL CODE 2032 3. FUEL GAS SUBCODE: INTERNATIONAL FUEL GAS CODE 2021 4. PLUMBING SUBCODE: NATIONAL STANDARD PLUMBING CODE 2021 5. ELECTRICAL SUBCODE: NATIONAL ELECTRICAL CODE (NFPA 70) 2020 6. ENERGY SUBCODE: ASHRAE 90.1–2019	GENERAL MECHANICAL REQUIREMENTS 1. GENERAL NOTES, SYMBOL LISTS AND DETAILS ARE APPLICABLE TO ALL MECHANICAL DRAWINGS LABELED "M". 2. NOT ALL SYMBOLS, ABBREVIATIONS AND LINE DESIGNATIONS ARE NECESSARILY USED ON THIS PROJECT. 3. ALL HVAC EQUIPMENT, DUCTWORK, PIPING, SUPPORTS AND ACCESSORY LOCATIONS AND ROUTING SHALL BE COORDINATED WITH ALL OTHER TRADES AND FIELD VERIFIED PRIOR TO INSTALLATION TO PROVIDE REQUIRED CLEARANCES FOR ALL OTHER SYSTEMS. 4. ALL PIPING/DUCTWORK/CONTROLS PENETRATING FIRE RATED PARTITIONS, WALLS AND CEILINGS SHALL BE SEALED ON BOTH SIDES USING AN APPROVED, UL LISTED FIRE SEALANT TO MATCH EXISTING WALL FIRE RATING WHERE A PIPE/DUCT/CONTROL CONDUIT HAS BEEN REMOVED THAT PREVIOUSLY PENETRATED A FIRE RATED PARTITION, WALL OR CEILING, THE CONTRACTOR SHALL PATCH AND SEAL THE PENETRATION ON BOTH SIDES USING AN APPROVED, UL LISTED FIRE SEALANT TO MATCH EXISTING WALL FIRE RATING. 5. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS AND LABOR TO PROVIDE COMPLETE AND WORKING MECHANICAL SYSTEMS WHETHER SPECIFIED OR IMPLIED. 6. THE ENTIRE MECHANICAL INSTALLATION SHALL CONFORM TO THE LOCAL CODE, STATE LAWS, AGA, IBC, IMC, NBFU, NFPA, NSPC, ASME AND ALL OTHER APPLICABLE CODES. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, INSPECTIONS AND APPROVALS AS REQUIRED. 7. DO NOT SCALE THE DRAWINGS FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS, DIMENSIONS, ETC. AT THE JOB SITE. 8. CONTRACTOR SHALL GUARANTEE THE COMPLETE INSTALLATION AGAINST DEFECTS IN THE WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE. THIS GUARANTEE SHALL BE BINDING REGARDLESS OF THE MANUFACTURER'S GUARANTEE AND THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ALL DEFECTIVE MATERIAL AND PARTS REGARDLESS OF CAUSE (EXCLUDING DEFECTS TRACEABLE TO IMPROPER MAINTENANCE OR MALICIOUS DESTRUCTION OR ACTS OF GOD AFTER THE SYSTEM HAS BEEN ACCEPTED BY THE OWNER). 9. THE CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES TO PREVENT INTERFERENCE BETWEEN BEAMS, STRUCTURES, PIPING, LIGHTING FIXTURES, EXISTING SYSTEMS AND UTILITIES, ETC. 10. ALL MATERIALS USED IN CONSTRUCTION SHALL HAVE A FLAME SPREAD RATING OF 25 OR LESS, A SMOKE DEVELOPMENT RATING OF 50 OR LESS, AND A FUEL CONTRIBUTED RATING OF 25 OR LESS. ALL MATERIALS SHALL BE "SELF-EXTINGUISHING". 11. ALL PIPING, CONDUIT AND DUCT PENETRATIONS OF "FIRE RATED BUILDING CONSTRUCTION" SHALL BE SLEEVED AND SEALED WITH A UL APPROVED FIRE BARRIER SYSTEM. 12. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS. 13. CONTRACTOR SHALL PROVIDE THREE (3) COMPLETE SETS OF BOUND OPERATING AND MAINTENANCE INSTRUCTIONS. CONTRACTOR SHALL INSTRUCT THE OWNER OR HIS AGENT WITH REGARD TO THE PROPER USE OF THE SYSTEM UNTIL SUCH INSTRUCTION IS COMPLETE TO THE OWNER'S SATISFACTION. OPERATION AND MAINTENANCE MANUAL SHALL INCLUDE A VALVE SCHEDULE IF VALVES ARE INSTALLED AS PART OF THE NEW WORK. 14. MECHANICAL CONTRACTOR SHALL LABEL ALL NEW MECHANICAL EQUIPMENT, PIPING AND VALVES (INDOORS AND OUTDOORS) IN A PERMANENT MANNER. MECHANICAL PIPING SHALL BE LABELED WITH SELF-ADHESIVE PIPE MARKERS EQUAL TO MARKING SERVICES INC. (MSI) SERIES MS-900 MARKERS. COMPLY WITH ASME A13.1 FOR LETTERING SIZE, LENGTH OF COLOR FIELD, COLORS, AND VIEWING ANGLES OF IDENTIFICATION. DIRECTION OF FLOW SHALL BE IDENTIFIED WITH MS-900 FLOW DIRECTIONAL ARROW TAPE. VALVES SHALL BE IDENTIFIED WITH BRASS VALVE TAGS, ATTACHED WITH SOLID BRASS CHAINS AND "S" HOOKS. VALVE TAGS SHALL BE COORDINATED WITH VALVE SCHEDULE PROVIDED IN OPERATION AND MAINTENANCE MANUAL. MECHANICAL EQUIPMENT SHALL BE LABELED WITH ENGRAVED PLASTIC TAGS WITH MOUNTING HOLES AND STAINLESS STEEL SCREWS. ALL LABELING SHALL HAVE HIGH CONTRAST BETWEEN LETTER AND BACKGROUND COLORS AND SHALL BE LOCATED FOR EASY VISIBILITY. 15. ALL MECHANICAL EQUIPMENT AND APPLIANCES INSTALLED SHALL BEAR THE LABEL OF AN APPROVED AGENCY. 16. THE ENTIRE MECHANICAL INSTALLATION SHALL BE PERFORMED IN ACCORDANCE WITH THE 2021 INTERNATIONAL MECHANICAL CODE AND ANY SUPPLEMENTS, INCLUDING THE INTERNATIONAL BUILDING CODE – 2021 AND ITS SUPPLEMENTS AS ADOPTED BY THE STATE OF NEW JERSEY. 17. PROVIDE VIBRATION ISOLATION MOUNTINGS FOR ALL MOTOR OPERATED EQUIPMENT. 18. ALL EXTERIOR WALL AND ROOF OPENINGS SHALL BE SLEEVED, CAULKED AND SEALED WITH A HIGH QUALITY SEALANT TO PREVENT INFILTRATION OF MOISTURE AND OUTSIDE AIR. 19. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED CALCULATIONS (SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE STATE OF NEW JERSEY) AND INSTALLATION INFORMATION TO SHOW COMPLIANCE WITH SEISMIC AND WIND FORCES IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE 2021. INFORMATION SHALL BE MADE AVAILABLE TO ENGINEER FOR REVIEW AND ALSO, MADE AVAILABLE UPON REQUEST FOR SUBMISSION TO CODE ENFORCEMENT. PROVIDE ALL SUPPORT SYSTEMS, SUPPLEMENTAL STEEL, ANCHORS, PIPE HANGERS AND ENGINEERING DOCUMENTATION NECESSARY TO PROVIDE A COMPLETE CODE COMPLIANT SYSTEM. 20. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR WHO SHALL PROVIDE POWER WIRING TO ALL MECHANICAL EQUIPMENT. MECHANICAL CONTRACTOR SHALL FURNISH LOOSE MOTOR STARTERS AND DISCONNECT SWITCHES FOR INSTALLATION AND WIRING BY THE ELECTRICAL CONTRACTOR. MECHANICAL CONTRACTOR SHALL PROVIDE ALL CONTROL AND INTERLOCK WIRING AND ALL THERMOSTATS AND ACCESSORIES. 21. PROVIDE BALANCING OF ALL AIR SYSTEMS PER AABC OR NEBB STANDARDS. SUBMIT TEST DATA AND DEMONSTRATE IN FIELD. 22. SUBMIT 3/8" SCALE PIPING & SHEET METAL SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION AND INSTALLATION. COORDINATE WITH ALL TRADES. 23. SUBMIT FOR REVIEW, DUPLICATE SPECIFICATION SHEETS OF ALL EQUIPMENT SUPPLIED OR INSTALLED, INCLUDING BUT NOT LIMITED TO THE FOLLOWING: 23.1. EXHAUST FANS. 23.2. GAS FIRED FURNACES 23.3. AIR–COOLED HEAT PUMP CONDENSING UNITS. 23.4. UNIT HEATER & CABINET UNIT HEATER. 23.5. DUCTWORK AND DUCTWORK ACCESSORIES. 23.6. REFRIGERANT PIPING. 23.7. CONDENSATE PIPING. 23.8. HVAC CONTROLS.

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ENGINEERING

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Voorhees, New Jersey 08043
(856) 427-0200
P.A. 24GA27936700
CE Proj No. 8C25228.00

NEW CONSTRUCTION

34TH STREET
SANDCASTLE PARK
OPERATIONS
BUILDING

BLOCK 3403, LOTS 1 & 2
CITY OF OCEAN CITY
CAPE MAY COUNTY
NEW JERSEY
08226

No.	Description	Date
	PERMIT ISSUE	09.11.2026

MECHANICAL LEAD
SHEET AND
SPECIFICATIONS

ScaleAS NOTED
Drawn byCEG
Date09.11.2026

M0.00

Corrision no.250350

MECHANICAL SPECIFICATIONS

SPLIT SYSTEM AIR CONDITIONING UNITS – SYMBOL: GF/CU

1. PROVIDE SPLIT SYSTEM GAS FURNACE WITH CASED COOLING COIL AND REMOTE CONDENSING UNIT) AND ACCESSORIES CAPABLE OF CONDITIONING TO A FIXED DISCHARGE TEMPERATURE AS SPECIFIED ON THE CONTRACT DOCUMENTS.
2. SUBMITTALS: SUBMIT PRODUCT DATA, PERFORMANCE DATA AND WIRING DIAGRAMS.
3. REFERENCE CODES AND STANDARDS: UL LISTED, ASHRAE 90.1 COMPLIANT.
4. WARRANTY: MANUFACTURER'S STANDARD.

5. INDOOR EVAPORATOR FAN COIL TYPE: CABINET SHALL BE CONSTRUCTED OF GALVANIZED STEEL WITH REMOVABLE PANELS AND INTERNALLY INSULATED WITH SOUND ABSORBING MATERIAL. THE UNIT SHALL BE EQUIPPED WITH A DISCHARGE AIR THERMISTOR. THE FAN SHALL BE DIRECT-DRIVE TYPE FAN WITH STATICALLY AND DYNAMICALLY BALANCED IMPELLER. THE FAN MOTOR SHALL BE THERMALLY PROTECTED. THE REFRIGERANT COIL SHALL BE DIRECT EXPANSION TYPE, R-32, RATED AND CONSTRUCTED FROM COPPER TUBES AND EXPANDED ALUMINUM FINS. THE COIL SHALL BE A 3 ROW CROSS FIN COPPER EVAPORATOR COIL WITH 12 FPI DESIGN COMPLETELY FACTORY TESTED. A THERMISTOR SHALL BE LOCATED ON THE LIQUID AND GAS LINE. PROVIDE SUPPLEMENTAL HEATER TO BE INSTALLED IN THE UNIT. HEAT CONTROL SHALL ALLOW EMERGENCY HEAT FUNCTIONALITY WHEN THE SYSTEM ERRORS PREVENT THE HEAT PUMP FROM OPERATING.

6. AIR COOLED CONDENSING UNIT: THE CONDENSING UNIT SHALL BE COMPLETELY WEATHERPROOF AND CORROSION RESISTANT. THE UNIT SHALL BE CONSTRUCTED FROM RUST-PROOFED GALVANIZED STEEL PANELS COATED WITH A BAKED ENAMEL FINISH. THE CONDENSING UNIT SHALL CONSIST OF ONE OR MORE PROPELLER TYPE, DIRECT-DRIVE 125W FAN MOTORS THAT HAVE MULTIPLE SPEED OPERATION VIA A DC (DIGITALLY COMMUTATING) INVERTER. NOMINAL SOUND PRESSURE LEVEL SHALL BE 58 dBA. THE CONDENSER COIL SHALL BE COPPER TUBES WITH EXPANDED ALUMINUM FINS. THE HEAT EXCHANGER SHALL BE OF A WAFLE LOUVER FIN AND RIFLED BORE DESIGN MANUFACTURED OF H-X SEAMLESS COPPER TUBE WITH N-SHAPE INTERNAL GROOVES AND ALUMINUM FINS. FIN SHALL BE COATED WITH ANTI-CORROSION HYDROPHILIC BLUE COATING. OUTDOOR COIL SHALL BE THREE-CIRCUIT HX DESIGN. LOWER PART OF COIL SHALL BE USED FOR INVERTER COOLING AND BE ON OR OFF DURING HEATING OPERATION. CONDENSER COIL GUARDS SHALL BE PROVIDED ON ALL SIDES. COMPRESSOR SHALL BE INVERTER SCROLL. CAPACITY CONTROL SHALL BE 10% TO 100%. COMPRESSOR SHALL BE MOUNTED ON RUBBER VIBRATION ISOLATORS. THE REFRIGERATION CIRCUIT OF THE CONDENSING UNIT SHALL CONSIST OF INVERTER SCROLL COMPRESSORS, MOTORS, FANS, CONDENSER COIL, ELECTRONIC EXPANSION VALVES, SOLENOID VALVES, 4-WAY VALVE, DISTRIBUTION HEADERS, CAPILLARIES, FILTERS, SHUT OFF VALVES, OIL SEPARATORS, SERVICE PORTS AND REFRIGERANT ACCUMULATOR. THE SYSTEM WILL AUTOMATICALLY RESTART OPERATION AFTER A POWER FAILURE AND WILL NOT CAUSE ANY SETTINGS TO BE LOST, THIS ELIMINATING THE NEED FOR REPROGRAMMING. THE FOLLOWING SAFETY DEVICES SHALL BE INCLUDED ON THE CONDENSING UNIT: HIGH PRESSURE SENSOR AND SWITCH, LOW PRESSURE SWITCH, CONTROL CIRCUIT FUSES, CRANKCASE HEATERS, FUSIBLE PLUG, OVERLOAD RELAY, INVERTER OVERLOAD PROTECTOR, THERMAL PROTECTORS FOR COMPRESSOR AND FAN MOTORS, OVER CURRENT PROTECTION FOR THE INVERTER AND ANTI-RECYCLING TIMERS. THE SYSTEM SHALL INCLUDE AN R32 ALARM OUTPUT PLUG ON THE INDOOR UNIT AND OUTDOOR UNIT FOR NOTIFICATION OF R32 LEAK DETECTION. ENSURE THE LIQUID REFRIGERANT DOES NOT FLASH WHEN SUPPLYING TO THE VARIOUS INDOOR UNITS, THE CIRCUIT SHALL BE PROVIDED WITH A SUB-COOLING FEATURE. OIL RECOVERY CYCLE SHALL BE AUTOMATIC OCCURRING 2 HOURS AFTER START OF OPERATION AND THEN EVERY 8 HOURS OF OPERATION. THE CONDENSING UNIT SHALL BE CAPABLE OF HEATING OPERATION AT -4°F DRY BULB AMBIENT TEMPERATURE WITHOUT ADDITIONAL LOW AMBIENT CONTROLS OR AN AUXILIARY HEAT SOURCE.

7. ACCESSORIES:

- 7.1. FACTORY MOUNTED CONTROLS CAPABLE OF REQUIRED SEQUENCES.
- 7.2. BACNET CARD.
- 7.3. THERMOSTAT/HUMIDITY SENSOR
- 7.4. -
- 7.5. AUTOMATIC RESET TIMER TO PREVENT RAPID CYCLING OF THE COMPRESSOR.
- 7.6. -
8. APPROVED MANUFACTURERS: DAIKIN OR APPROVED EQUIVALENT.

IN-LINE, CEILING MOUNTED EXHAUST FANS – SYMBOL: EF

1. PROVIDE EXHAUST FANS AND ACCESSORIES AS SPECIFIED ON THE CONTRACT DOCUMENTS.
2. SUBMITTALS: SUBMIT PRODUCT DATA, PERFORMANCE DATA AND WIRING DIAGRAMS.
3. REFERENCE CODES AND STANDARDS: FAN SHALL BE MANUFACTURED AT AN ISO 9001 CERTIFIED FACILITY. FAN SHALL BE LISTED BY UL 705. FAN SHALL BEAR THE AMCA CERTIFIED SEAL.
4. WARRANTY: MANUFACTURER'S STANDARD.

5. CONSTRUCTION: THE FAN WHEEL HOUSING AND INTEGRAL OUTLET DUCT SHALL BE INJECTION MOLDED FROM A SPECIALLY ENGINEERED RESIN EXCEEDING UL REQUIREMENTS FOR SMOKE AND HEAT GENERATION. THE OUTLET DUCT SHALL HAVE PROVISION FOR AN ALUMINUM BACKDRAFT DAMPER WITH CONTINUOUS ALUMINUM HINGE ROD. THE INLET BOX SHALL BE MINIMUM 22 GAUGE GALVANIZED STEEL. MOTOR SHALL BE ISOLATION MOUNTED TO A ONE PIECE GALVANIZED STAMPED STEEL INTEGRAL MOTOR MOUNT/INLET. A FIELD WIRING COMPARTMENT WITH DISCONNECT RECEPTACLE SHALL BE STANDARD, TO ACCOMMODATE DIFFERENT CEILING THICKNESS. AN ADJUSTABLE PREPUNCHED MOUNTING BRACKET SHALL BE PROVIDED. A WHITE, NON-YELLOWING, HIGH IMPACT STYRENE INJECTION MOLDED GRILL SHALL BE PROVIDED AS STANDARD. UNIT SHALL BE DESIGNED WITH PROVISION FOR FIELD CONVERSION FROM CEILING TO IN-LINE. UNIT SHALL BE SHIPPED IN ISTA CERTIFIED TRANSIT TESTED PACKAGING.

6. WHEEL: WHEEL SHALL BE CENTRIFUGAL FORWARD CURVED TYPE, INJECTION MOLDED POLYPROPYLENE RESIN. WHEEL SHALL BE BALANCED IN ACCORDANCE WITH AMCA STANDARD 204-96, BALANCE QUALITY AND VIBRATION LEVELS FOR FANS.

7. MOTOR: MOTOR SHALL BE OPEN DRIP PROOF TYPE WITH PERMANENTLY LUBRICATED BEARINGS AND INCLUDE IMPEDANCE OR THERMAL OVERLOAD PROTECTION AND DISCONNECT PLUG.

8. ELECTRICAL: SINGLE POINT CONNECTION.

9. ACCESSORIES:

- 9.1. WHITE PLASTIC GRILLE.
- 9.2. FAN SPEED CONTROLLER.
- 9.3. WALL CAP.
- 9.4. BACKDRAFT DAMPER.
- 9.5. VIBRATION ISOLATION KIT.

10. APPROVED MANUFACTURERS: GREENHECK, LOREN COOK OR APPROVED EQUIVALENT.

UNIT HEATER, ELECTRIC – SYMBOL: EUH, GUH

1. PROVIDE UNIT HEATER AND ACCESSORIES AS SPECIFIED ON THE CONTRACT DOCUMENTS.
2. SUBMITTALS: SUBMIT PRODUCT DATA, PERFORMANCE DATA AND WIRING DIAGRAMS.
3. REFERENCE CODES AND STANDARDS: UL 2021, UL 823, NFPA 70, ARTICLE 100 FOR ELECTRICAL COMPONENTS.
4. WARRANTY: MANUFACTURER'S STANDARD.

5. STANDARD CONSTRUCTION: 18 -GAGE STEEL WITH POWDER COAT FINISH IN MFG'S STANDARD COLOR.

6. FAN MOTOR: TEFC, DIRECT DRIVE WITH THERMAL OVERLOAD PROTECTION.

7. HEATING ELEMENT: 80/20 NICHROME WIRE ENCASED IN REFRACTORY MATERIAL (MGO) WITH COPPER CLAD STEEL SHEATH AND ALUMINUM FINS.

8. HEATING SAFETY:

- 8.1. AUTOMATIC RESET THERMAL OVERHEAT PROTECTION.
- 8.2. HEAT BANK SHALL HAVE PROTECTIVE AIR INLET LOUVERS.

9. CONTROLS:

- 9.1. 24V CONTROL TRANSFORMER FOR UNITS WITH REMOTE THERMOSTATS.
- 9.2. INTEGRAL OR REMOTE THERMOSTAT. REFER TO SCHEDULES.
- 9.3. MANUAL HIGH LIMIT.

10. MOUNTING: HORIZONTAL OR CEILING MOUNTING WITH MFG SUPPLIED BRACKETS OR ACCESSORIES. REFER TO EQUIPMENT SCHEDULES. FOR RECESSED CEILING MOUNT, PROVIDE MANUFACTURER'S STANDARD FINISHED GRILLE FOR MOUNTING IN SPECIFIC CEILING TYPE AS INDICATED ON THE ARCHITECTURAL PLANS.

11. ELECTRICAL: SINGLE POINT CONNECTION WITH DISCONNECT SWITCH.

12. APPROVED MANUFACTURERS: BERKO, REZNOR, MODINE OR APPROVED EQUIVALENT.

REFRIGERANT PIPING

1. PROVIDE PIPE, VALVES, FITTINGS AND OTHER MATERIALS AND EQUIPMENT AS SPECIFIED AND SHOWN FOR AIR CONDITIONING REFRIGERANT PIPING SYSTEMS.

2. APPROVED MANUFACTURERS: SPORLAN, MUELLER, STREAMLINE, DANFOSS OR APPROVED EQUIVALENT.

3. LINE TEST PRESSURE FOR R-32/R-454B: LIQUID AND SUCTION LINES, 535 PSIG.

4. COPPER TUBE AND FITTINGS: DRAWN-TEMPER COPPER TUBE, ASTM B280, TYPE ACR. WROUGHT-COPPER FITTINGS, ASME B16.22.

5. SERVICE VALVES: 500-PSIG PRESSURE RATING; FORGED-BRASS BODY WITH COPPER STUBS, BRASS CAPS, REMOVABLE VALVE CORE, INTEGRAL BALL CHECK VALVE, AND WITH SOLDER-END CONNECTIONS.

6. SOLENOID VALVES: COMPLY WITH ARI 760; 250 DEG F TEMPERATURE RATING AND 400-PSIG WORKING PRESSURE; FORGED BRASS, WITH POLYTETRAFLUOROETHYLENE VALVE SEAT, 2-WAY, STRAIGHT-THROUGH PATTERN, AND SOLDER-END CONNECTIONS; MANUAL OPERATOR; FITTED WITH SUITABLE NEMA 250 ENCLOSURE OF TYPE REQUIRED BY LOCATION, WITH 1/2-INCH CONDUIT ADAPTER AND 24-V, NORMALLY CLOSED HOLDING COIL.

7. PRESSURE-REGULATING VALVES: COMPLY WITH ARI 770; PILOT OPERATED, FORGED BRASS OR CAST BRONZE, STAINLESS-STEEL BOTTOM SPRING, PRESSURE-GAGE TAPPINGS, 24-V DC STANDARD COIL, AND WROUGHT-COPPER FITTINGS FOR SOLDER-END CONNECTIONS; SUITABLE FOR REFRIGERANT SPECIFIED.

8. THERMOSTATIC EXPANSION VALVES: COMPLY WITH ARI 750; BRASS BODY WITH STAINLESS-STEEL PARTS; THERMOSTATIC-ADJUSTABLE, MODULATING TYPE; SIZE AND OPERATING CHARACTERISTICS AS RECOMMENDED BY MANUFACTURER OF EVAPORATOR, AND FACTORY SET FOR SUPERHEAT REQUIREMENTS; SOLDER-END CONNECTIONS; WITH SENSING BULB, DISTRIBUTOR HAVING SIDE CONNECTION FOR HOT-GAS BYPASS LINE, AND EXTERNAL EQUALIZER LINE.

9. HOT-GAS BYPASS VALVE: PULSATING-DAMPENING DESIGN, STAINLESS-STEEL BELLOWES AND POLYTETRAFLUOROETHYLENE VALVE SEAT; ADJUSTABLE; SIZED FOR CAPACITY EQUAL TO LAST STEP OF COMPRESSOR UNLOADING; WITH SOLDER-END CONNECTIONS.

10. STRAIGHT- OR ANGLE-TYPE STRAINERS: 500-PSIG WORKING PRESSURE; FORGED-BRASS OR STEEL BODY WITH STAINLESS-STEEL WIRE OR BRASS-REINFORCED MONEL SCREEN OF 80 TO 100 MESH IN LIQUID LINES UP TO 1-1/8 INCHES, 60 MESH IN LARGER LIQUID LINES, AND 40 MESH IN SUCTION LINES; WITH SCREWED CLEANOUT PLUG AND SOLDER-END CONNECTIONS.

11. MOISTURE/LIQUID INDICATORS: 500-PSIG MAXIMUM WORKING PRESSURE AND 200 DEG F OPERATING TEMPERATURE; ALL-BRASS BODY WITH REPLACEABLE, POLISHED, OPTICAL VIEWING WINDOW WITH COLOR-CODED MOISTURE INDICATOR; WITH SOLDER-END CONNECTIONS.

12. REPLACEABLE-CORE FILTER-DRYERS: 500-PSIG MAXIMUM WORKING PRESSURE; HEAVY GAGE PROTECTED WITH CORROSION-RESISTANT-PAINTED STEEL SHELL, FLANGED RING AND SPRING, DUCTILE-IRON COVER PLATE WITH STEEL CAP SCREWS; WROUGHT-COPPER FITTINGS FOR SOLDER-END CONNECTIONS; WITH REPLACEABLE-CORE KIT, INCLUDING GASKETS AND THE FOLLOWING:

12.1. FILTER-DRYER CARTRIDGE: PLEATED MEDIA WITH SOLID-CORE SIEVE WITH ACTIVATED ALUMINA, ARI 730 RATED FOR CAPACITY.

13. PERMANENT FILTER-DRYER: 350-PSIG MAXIMUM OPERATING PRESSURE AND 225 DEG F MAXIMUM OPERATING TEMPERATURE; STEEL SHELL AND WROUGHT-COPPER FITTINGS FOR SOLDER-END CONNECTIONS; MOLDED-FELT CORE SURROUNDED BY DESICCAT.

14. MUFFLERS: 500-PSIG OPERATING PRESSURE, WELDED-STEEL CONSTRUCTION WITH FUSIBLE PLUG; SIZED FOR REFRIGERATION CAPACITY.

HVAC TESTING AND BALANCING REQUIREMENTS

1. PROVIDE COMPLETELY TESTED, BALANCED AND CERTIFIED AIR AND WATER SYSTEMS AS DEFINED BY THESE SPECIFICATIONS.

2. ALL INSTRUMENTS AND EQUIPMENT REQUIRED FOR TESTING AND BALANCING SHALL BE PROVIDED BY THIS CONTRACTOR.

3. THE TESTING AND BALANCING CONTRACTOR SHALL BE CERTIFIED BY THE ASSOCIATED AIR BALANCE COUNCIL (AABC) AND/OR THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB).

4. THE WORK SHALL BE PERFORMED BY REGULAR EMPLOYEES OF THE TESTING AND BALANCING CONTRACTOR SPECIFICALLY TRAINED IN THE TOTAL BALANCING OF AIR AND WATER SYSTEMS. THE WORK SHALL BE CONTINUOUSLY CONDUCTED UNDER THE DIRECT SUPERVISION OF A REGISTERED PROFESSIONAL ENGINEER.

5. PERFORM THE WORK, USING METHODS AND TEST FORMS PUBLISHED BY AABC NATIONAL STANDARDS FOR FIELD MEASUREMENTS AND INSTRUMENTATION, LATEST EDITION, OR EQUIVALENT NEBB METHODS AND FORMS.

6. DO NOT START TESTING AND BALANCING UNTIL EACH SYSTEM HAS BEEN CERTIFIED BY THE INSTALLING CONTRACTOR TO BE COMPLETE AND HAS BEEN TESTED AND REVIEWED.

7. THE OWNER'S REPRESENTATIVE SHALL, AT HIS DISCRETION, WITNESS FINAL BALANCING OF ALL SYSTEMS. THE TESTING AND BALANCING CONTRACTOR SHALL PROVIDE MINIMUM OF 10 WORKING DAYS PRIOR NOTICE TO THE OWNER'S REPRESENTATIVE FOR EACH SYSTEM TO BE BALANCED.

8. BALANCING SHALL ACHIEVE TOTAL DESIGN AIR FLOW RATE WITHIN A TOLERANCE OF ±5% - AND OBTAIN SYSTEM ACTUAL OPERATING STATIC PRESSURE/HEAD AND PLOT THE SYSTEM CURVE ON THE CERTIFIED FAN/PUMP CURVE. ALL WATER FLOWS SHALL BE CHECKED AND ADJUSTED TO WITHIN ±10% - OF THE CPM REQUIREMENTS SHOWN ON THE CONTRACT DRAWINGS.

9. VERIFY THAT ALL THERMOSTATS AND THE DEVICES THEY CONTROL (SUCH AS VALVES AND DAMPERS) OPERATE AS THEY ARE INTENDED.

AIR CONDITIONING CONDENSATE DRAIN PIPING

1. PROVIDE PIPE, VALVES, FITTINGS AND OTHER MATERIALS AND EQUIPMENT AS SPECIFIED AND SHOWN FOR AIR CONDITIONING CONDENSATE DRAIN SYSTEMS.

2. APPROVED MANUFACTURERS: COPPER – NIBCO, APOLLO, WATTS OR EQUIVALENT. PLASTIC – NIBCO, WATTS, HAYWARD OR APPROVED EQUIVALENT.

3. PIPE: 2 INCHES AND SMALLER – COPPER TUBING, SEAMLESS TYPE L, ASTM B88, SOLDERED ENDS OR SCHEDULE 40 PVC PIPE, PLENUM RATED WITH SOLVENT-WELDED JOINTS.

4. FITTINGS: 2 INCHES AND SMALLER, WROUGHT COPPER, PRESSURE FITTINGS, SOLDER TYPE, ANSI B16.22, ASTM B75 FOR COPPER PIPING OR PVC, SCH 40 WITH SOCKET-TYPE FITTINGS, ASTM D 2466 WITH PLENUM RATINGS.

5. SHUTOFF VALVES: 2 INCHES AND SMALLER – COPPER: 400 WOG / 150 SWP, BRONZE BALL VALVES ONE PIECE OR TWO PIECE SERVICEABLE IN LINE, FULL PORT, BRONZE TRIM, CHROME PLATED BRASS BALL, BLOW-OUT PROOF STEM, PTFE SEALS, SOLDERED OR THREADED ENDS FOR COPPER PIPING. PVC: 150 SWP, PLASTIC BALL VALVES ONE PIECE, FULL PORT, PVC BALL, PTFE SEAL, SOCKET WELD OR THREADED ENDS FOR PVC PIPING.

6. CHECK VALVES: 2 INCHES AND SMALLER – COPPER: 400 WOG / 200 SWP BRONZE SWING CHECK VALVES WITH REGRINDABLE BRONZE DISC, SCREW-IN CAP, SOLDERED ENDS FOR COPPER PIPING. PVC: 50 SWP, PVC SWING CHECK WITH SOCKET WELD ENDS FOR PVC PIPING.

INSULATION FOR MECHANICAL PIPING SYSTEMS

1. PROVIDE PIPE INSULATION, JACKETS AND INSULATION ACCESSORIES FOR MECHANICAL PIPING SYSTEMS

2. SUBMIT MANUFACTURER'S PRODUCT DATA SPECIFIED FOR REVIEW. SUBMIT SAMPLES OF PRODUCTS, LABELED AND IDENTIFIED, IF REQUESTED.

THE FOLLOWING PRODUCTS AND MANUFACTURERS ARE APPROVED FOR USE. NO SUBSTITUTIONS. FIBERGLASS – JOHNS-MANVILLE, KNAUF, OWENS-CORNING. ELASTOMERIC – RUBATEX R-180-FS OR EQUAL BY ARMSTRONG AND IMCOA. JACKETS AND ACCESSORIES – FOSTER, CHILDERS, EXPOLUX, ARMSTRONG, JOHNS-MANVILLE, OWENS-CORNING, PITTSBURGH-CORNING, GENERAL ALUMINUM SUPPLY CORPORATION, PIPE SHIELDS INC., ZESTON 300 AND 2000.

4. INSULATING MATERIALS AND ACCESSORIES SHALL HAVE A COMPOSITE FIRE AND SMOKE RATING AS TESTED UNDER ASTM E 84, NFPA 255 AND UL 723 PROCEDURES NOT TO EXCEED FLAME SPREAD – 25, SMOKE DEVELOPED – 50 (UNLESS NOTED OTHERWISE) AND FUEL CONTRIBUTED – 50.

5. FIBERGLASS INSULATION – 4 PCF DENSITY, MAXIMUM THERMAL CONDUCTIVITY "K" (BTUIN./HR.FT2 F) OF 0.23 AT 75 F MEAN TEMPERATURE, WITH FACTORY-APPLIED ALL PURPOSE FOIL-KRAFT BONDED JACKET HAVING A VAPOR-PROOF PRESSURE-SENSITIVE 1.5 INCH WIDE LAP FOR LONGITUDINAL SEAL. EACH CYLINDRICAL PIECE SHALL BE HINGED CONSTRUCTION, PROVIDE 3-INCH WIDE VAPOR-PROOF PRESSURE-SENSITIVE SEALING TAPE WITH RELEASE PAPER FOR CIRCUMFERENTIAL JOINTS. MICRO-LOK WITH AP-T JACKET BY JOHNS-MANVILLE.

6. ELASTOMERIC INSULATION

- 6.1. INSULATION MATERIAL SHALL BE FLEXIBLE, CELLULAR ELASTOMERIC, MOLDED, OZONE RESISTANT, 6 PCF DENSITY, AND SHALL COMPLY WITH ASTM C534. THERMAL CONDUCTIVITY "K" (BTUIN./HR.FT2 F) SHALL BE 0.28 AT 75 F, ASTM C177 OR C518. MINIMUM SERVICE TEMPERATURE SHALL BE -40 F. MAXIMUM SERVICE TEMPERATURE SHALL BE 220 F. MAXIMUM MOISTURE ABSORPTION SHALL BE 1.0 PERCENT BY VOLUME, ASTM D1056. MOISTURE VAPOR TRANSMISSION SHALL BE 0.20 PERM INCHES, ASTM E96.
- 6.2. MAXIMUM FLAME SPREAD SHALL BE 25 PER ASTM E84. MAXIMUM SMOKE DEVELOPED SHALL BE 50 (3/4" AND BELOW) AND 100 (1" AND ABOVE) PER ASTM E84.
- 6.4. FOR ALL EXTERIOR PIPING AND FOR PIPING EXPOSED TO ULTRAVIOLET RADIATION, PROVIDE A PROTECTIVE INSULATION COATING, RUBATEX 374 OR EQUAL. APPLY WITH WATERPROOF VAPOR BARRIER ADHESIVE.
- 6.5. ELASTOMERIC INSULATION SHALL BE RUBATEX R-180-FS OR EQUIVALENT.

7. JACKETS

- 7.1. ALL SERVICE JACKET – AP-T BY JOHNS-MANVILLE CORPORATION, SUPPLIED INTEGRAL WITH MICRO-LOK INSULATION. JACKET SHALL INCLUDE BONDED VAPOR-PROOF ALUMINUM FOIL-KRAFT AND 1.5 INCH WIDE LONGITUDINAL VAPOR-PROOF PRESSURE SENSITIVE CLOSURE SEAL WITH RELEASE PAPER.
- 7.2. METAL JACKET STAINLESS STEEL 0.010 INCH THICK HAVING Z LOCK JOINT LONGITUDINAL SEAM, LINED WITH FACTORY-LAMINATED MOISTURE BARRIER. INCLUDE 0.016 INCH THICK X 2 INCH WIDE PREFORMED ALUMINUM SPRING SNAPS CONTAINING PERMANENT PLASTIC SEALING COMPOUND AND 0.015 INCH THICK X 0.5 INCH WIDE STAINLESS STEEL BANKS.

8. ACCESSORIES

8.1. PRE-MOLDED FITTINGS – POLY-VINYL CHLORIDE (PVC), 20 MILS THICK FOR INDOOR USE, 30 MILS THICK FOR OUTDOOR USE, CONFORMING TO FS 1-P-535E. PROVIDE 2-LAYER PRE-CUT INSULATION INSERTS MATCHED TO PIPE INSULATION, VAPOR BARRIER, MASTIC ADHESIVES AND TAPES. PVC COVERS SHALL BE "ZESTON" BY JOHNS-MANVILLE.

9. CONTRACTOR SHALL INSULATE ALL NEW PIPING IN TYPE AND THICKNESS AS NOTED IN THE INSULATION SCHEDULE WITHIN THIS SECTION. IN ADDITION, CONTRACTOR SHALL RE-INSULATE ALL EXISTING PIPING WITHIN CONTRACT AREA AS SPECIFIED HEREIN FOR ALL PIPING WHOSE INSULATION HAS BEEN REMOVED OR DAMAGED BASED ON THE INSULATION SCHEDULE THICKNESSES.

INSULATION FOR MECHANICAL PIPING SYSTEMS CONT'D

DESCRIPTION	COND DRAIN	REFRIG PIPE (RL&RS)
FLUID TEMPERATURE RANGE (° F)	35-75	35-150
INSULATION TYPE	FIBERGLASS	ELASTOMERIC
INSULATION THICKNESS FOR INDOOR PIPE LOCATIONS	COND DRAIN	RL&RS
1" OR LESS	3/4"	1"
2" OR LESS	3/4"	1"
INSULATION THICKNESS FOR OUTDOOR PIPE LOCATIONS	COND DRAIN	RL&RS
1" OR LESS	3/4"	2"
2" OR LESS	3/4"	2"

NOTES:

1. INSULATION THICKNESS FOR PIPING IN UNCONDITIONED SPACES, SUCH AS MECHANICAL ROOMS, ETC., SHALL BE AS NOTED FOR OUTDOOR PIPING.
2. ALL EXTERIOR PIPING SHALL BE COATED WITH WB ARMAFLEX PAINT PER MFG'S INSTRUCTIONS.

DUCTWORK INSULATION

1. PROVIDE EXTERNAL INSULATION, JACKETS AND INSULATING ACCESSORIES FOR SHEET METAL DUCTWORK UNLESS OTHERWISE NOTED AS RECEIVING INTERNAL ACOUSTIC LINING ON THE PLANS. IN THE CASE OF EXTERIOR DUCTWORK REQUIRING ACOUSTICAL LINING, THE CONTRACTOR SHALL PROVIDE INTERNAL AND EXTERNAL INSULATION WITH JACKETING AS REQUIRED TO MEET THE INSULATION VALUES NOTED FOR DUCTWORK LOCATED OUTDOORS THAT IS UNLINED.

2. SUBMIT FOR REVIEW, MANUFACTURER'S PRODUCT DATA FOR ALL PRODUCTS SPECIFIED. SUBMIT SAMPLES OF PRODUCTS, LABELED AND IDENTIFIED, IF REQUESTED.

3. APPROVED MANUFACTURERS – THE FOLLOWING PRODUCTS AND MANUFACTURERS ARE APPROVED FOR USE. NO SUBSTITUTIONS.

- 3.1. FIBERGLASS INSULATION – JOHNS-MANVILLE, CERTANTEED, OWENS-CORNING, KNAUF.
- 3.2. ELASTOMERIC – RUBATEX, ARMSTRONG.
- 3.3. JACKETS, ADHESIVES, MASTICS, AND SEALING TAPES – JOHNS-MANVILLE, ARMSTRONG, FOSTER, CHILDERS, EXPOLUX, CONSOLIDATED KINETICS CORPORATION.

4. INSULATING MATERIALS AND ACCESSORIES SHALL HAVE A COMPOSITE FIRE AND SMOKE RATING, WHEN TESTED IN ACCORDANCE WITH ASTM E 84, NFPA 255 AND UL 723, NOT TO EXCEED FLAME SPREAD OF 25, SMOKE DEVELOPED OF 50 (UNLESS OTHERWISE NOTED) AND FUEL CONTRIBUTED OF 50.

5. FIBERGLASS BOARD TYPE (FG BOARD)

- 5.1. FLAT, RIGID PREFORMED FIBERGLASS BOARD, 3 PCF DENSITY (INDOOR), 6 PCF (OUTDOOR) , WITH FACTORY-APPLIED VAPOR BARRIER FACING. MAXIMUM OPERATING TEMPERATURE SHALL BE 450 F.
- 5.2. VAPOR BARRIER FACING SHALL BE FSK (FOIL-SCRM-KRAFT) ALUMINUM FOIL REINFORCED WITH FIBERGLASS YARN MESH LAMINATED TO FIRE-RESISTANT TREATED KRAFT PAPER. FACING SHALL HAVE A MAXIMUM PERMEABILITY RATING OF 0.02 PERMS AND EMITTANCE OF 0.20.
- 5.3. INSULATION SHALL HAVE A MAXIMUM THERMAL CONDUCTIVITY "K" (BTUIN./HR.FT2 F) OF 0.23 AT 75 F MEAN TEMPERATURE.
- 5.4. INSULATION SHALL HAVE A MAXIMUM THERMAL CONDUCTIVITY "K" (BTUIN./HR.FT2 F) OF 0.27 AND THERMAL RESISTANCE "R" AT 75 F MEAN TEMPERATURE OF 7.4.

6. DUCT WRAP TYPE

- 6.1. DUCT WRAP SOFT DUCT WRAP FRK BY OWENS-CORNING, MICROLUTE XG TYPE 100 BY JOHNS-MANVILLE.
- 6.2. RESILIENT FIBERGLASS BLANKET WITH FACTORY APPLIED VAPOR BARRIER FACING.
- 6.3. VAPOR BARRIER FACING SHALL BE ALUMINUM FOIL REINFORCED WITH FIBERGLASS YARN MESS LAMINATED TO 40 POUND FIRE-RESISTANT TREATED KRAFT PAPER. FACING SHALL HAVE A MAXIMUM PERMEANCE OF 0.02 PERMS. DENSITY SHALL BE 1.0 LB./CU. FT. MAXIMUM OPERATING TEMPERATURE SHALL BE 250 F.
- 6.4. INSULATION SHALL HAVE A MAXIMUM THERMAL CONDUCTIVITY "K" (BTUIN./HR.FT2 F) OF 0.27 AND THERMAL RESISTANCE "R" AT 75 F MEAN TEMPERATURE OF 7.4.

DESCRIPTION	SUPPLY AIR DUCT & PLENUM	OUTSIDE AIR DUCT & PLENUM	RETURN AIR DUCT & PLENUM	JACKETING
ROUND, INDOOR, CONDITIONED, CONCEALED	2" DUCT WRAP	2" DUCT WRAP	2" DUCT WRAP	FSK
ROUND, INDOOR, CONDITIONED, EXPOSED	N/R	N/R	N/R	N/R
ROUND, OUTDOOR, EXPOSED	2" DUCT WRAP	2" DUCT WRAP	2" DUCT WRAP	SEE "OUTDOOR JACKETING"
RECTANGULAR, INDOOR, CONDITIONED, CONCEALED	2" DUCT WRAP	2" DUCT WRAP	2" DUCT WRAP	FSK
RECTANGULAR, INDOOR, CONDITIONED, EXPOSED	2" DUCT BOARD	2" DUCT BOARD	2" DUCT BOARD	FSK
RECTANGULAR, OUTDOOR, CONDITIONED, EXPOSED	2" DUCT BOARD	2" DUCT BOARD	2" DUCT BOARD	SEE "OUTDOOR JACKETING"

NOTES: ALL DUCTWORK IN UNCONDITIONED SPACES SHALL BE THE SAME AS THAT USED FOR CONCEALED SPACES. RETURN CEILING PLENUMS ARE CONSIDERED UNCONDITIONED.

CONDITIONED – SPACES WHICH ARE BOTH HEATED AND COOLED.

UNCONDITIONED – SPACES WHICH ARE NOT COOLED BUT MAY BE HEATED, SUCH AS MECHANICAL ROOMS, OR SPACES WHICH ARE NEITHER HEATED NOR COOLED.

CONCEALED – LOCATED BEHIND CONSTRUCTION SUCH AS WALLS, SHAFTS, CEILINGS, ETC. EXPOSED – NOT LOCATED BEHIND CONSTRUCTION SUCH AS WALLS, SHAFTS, CEILINGS, ETC. AND WHICH IS 8" – 0" OR LESS FROM FINISHED FLOORS.

OUTDOOR JACKETING – PROVIDE 60-MIL THICK, LAMINATED VAPOR BARRIER AND WATERPROOFING MEMBRANE FOR INSTALLATION OVER INSULATION LOCATED ABOVE-GROUND OUTDOORS; CONSISTING OF A RUBBERIZED BITUMINOUS RESIN ON A CROSS-LAMINATED POLYETHYLENE FILM COVERED WITH WHITE ALUMINUM-FOIL FACING. APPROVED MANUFACTURERS: POLYGUARD; ALUMAGUARD 60 OR APPROVED EQUIVALENT.

AUTOMATIC TEMPERATURE CONTROLS

1. SCOPE OF WORK

A. THE ATC SYSTEM SPECIFICATION IS A PERFORMANCE SPECIFICATION AND IS EXPECTED TO BE DESIGNED/ENGINEERED BY THE ATC CONTRACTOR TO MEET THE INTENT OF THE SPECIFICATIONS. ONLY QUALIFIED FIRMS SHALL PROPOSE ON THIS WORK; NO EXCEPTIONS.

B. HVAC CONTROLS BASIC SCOPE: WORK INCLUDES THE INSTALLATION AND PROGRAMMING REQUIRED TO EXECUTE THE SEQUENCE OF OPERATIONS AS NOTED BELOW. THE INTENT IS FOR THE EQUIPMENT TO FUNCTION VIA BASIC CONTROL DEVICES AND HARD-WIRE INTERLOCKS.. THE INTENT IS FOR THE ATC CONTRACTOR TO PROVIDE A BASIC CONTROL PANEL WITH CONTROLLER CAPABLE OF TIME-CLOCK OPERATION FOR OCCUPIED / UNOCCUPIED SCHEDULING, OUTSIDE AMBIENT ENABLE/DISABLE, ROOM TEMPERATURE AVERAGING AND ALARM WITH A BASIC LCD FOR DISPLAY OF SYSTEM PARAMETERS AND ALARMS. CONTROLLER SHALL HAVE CAPABILITY OF BEING MONITORED VIA A WEB-BASED PLATFORM. CONTROL PANEL SHALL BE LOCATED IN THE STORAGE ROOM. SYSTEM INSTALLATION SHALL BE COORDINATED WITH ALL TRADES.

C. THE FOLLOWING EQUIPMENT IS TO BE CONTROLLED:

1. SPLIT SYSTEM (GF/COOLING COIL AND CONDENSING UNIT) WITH OUTDOOR AMBIENT AND AVERAGING SENSORS.
2. EXHAUST FANS.
3. ELECTRIC UNIT HEATERS.
4. GAS FIRED UNIT HEATERS

G. AUTOMATIC CONTROLS FOR NEW EQUIPMENT SHALL BE CAPABLE OF INDEPENDENT, STAND-ALONE OPERATION. FURNISH AND INSTALL ALL THERMOSTATS, CONTROLLERS, SENSORS, VALVE AND DAMPER MOTORS, WIRING, ETC. AS REQUIRED FOR A COMPLETE INSTALLATION.

H. THE SYSTEM SHALL BE COMPLETE IN ALL RESPECTS INCLUDING ALL LABOR, MATERIALS, EQUIPMENT AND SERVICE AS REQUIRED. THE SYSTEM SHALL BE DESIGNED AND INSTALLED BY AN APPROVED CONTRACTOR HAVING AT LEAST TEN (10) YEARS EXPERIENCE IN THE DESIGN AND INSTALLATION OF HVAC AUTOMATIC CONTROLS AND RELATED WORK WHO SHALL ALSO PROVIDE START-UP, OPERATING INSTRUCTION AND NECESSARY MAINTENANCE AND REPAIRS TO THE SYSTEM THROUGH THE GUARANTEE PERIOD.

2. ELECTRICAL

A. ALL ELECTRICAL WORK REQUIRED FOR THE OPERATION OF THE CONTROL SYSTEMS SHALL BE PROVIDED UNDER THIS SECTION OF THE SPECIFICATION BY THE CONTROL SYSTEMS CONTRACTOR, EXCEPT AS SPECIFICALLY NOTED, AND SHALL BE IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL AUTHORITIES HAVING JURISDICTION.

B. ALL ELECTRICAL CONTROL AND SWITCHES SHALL BE SUITABLE FOR 120 VOLTS, 60 HERTZ. UPON COMPLETION OF THE WORK, AN ELECTRICAL CERTIFICATE FROM THE LOCAL JURISDICTION INSPECTION AGENCY SHALL BE PROVIDED.

C. ALL ELECTRICAL WIRING SHALL BE INSTALLED IN THIN-WALL EMT.

D. SINGLE OR MULTIPLE CONDUCTOR CABLES USED IN THE ATC WIRING SYSTEMS SHALL MEET THE REQUIREMENTS OF THE NEC TO INCLUDE ARTICLE 725 FOR CLASS 2 OR 3 WIRING AND ARTICLE 760 FOR FIRE PROTECTIVE SIGNALING SYSTEMS.

E. INSTALLATION SHALL COMPLY WITH NEC. RUNS OF SINGLE OR MULTIPLE CABLE SHALL BE SECURELY FASTENED IN A NEAT, WORKMAN-LIKE MANNER. SPLICES SHALL NOT BE MADE IN INACCESSIBLE LOCATIONS.

G. THERMOSTAT WIRING (24V) SHALL BE MINIMUM 18/2 STRANDED, SHIELDED, TWISTED PAIR, PLENUM RATED.

H. COMM WIRING SHALL BE CAT-6 DATA CABLE, 24 AWG, 4X2 PR, PLENUM RATED.

3. SERVICE AND GUARANTEE

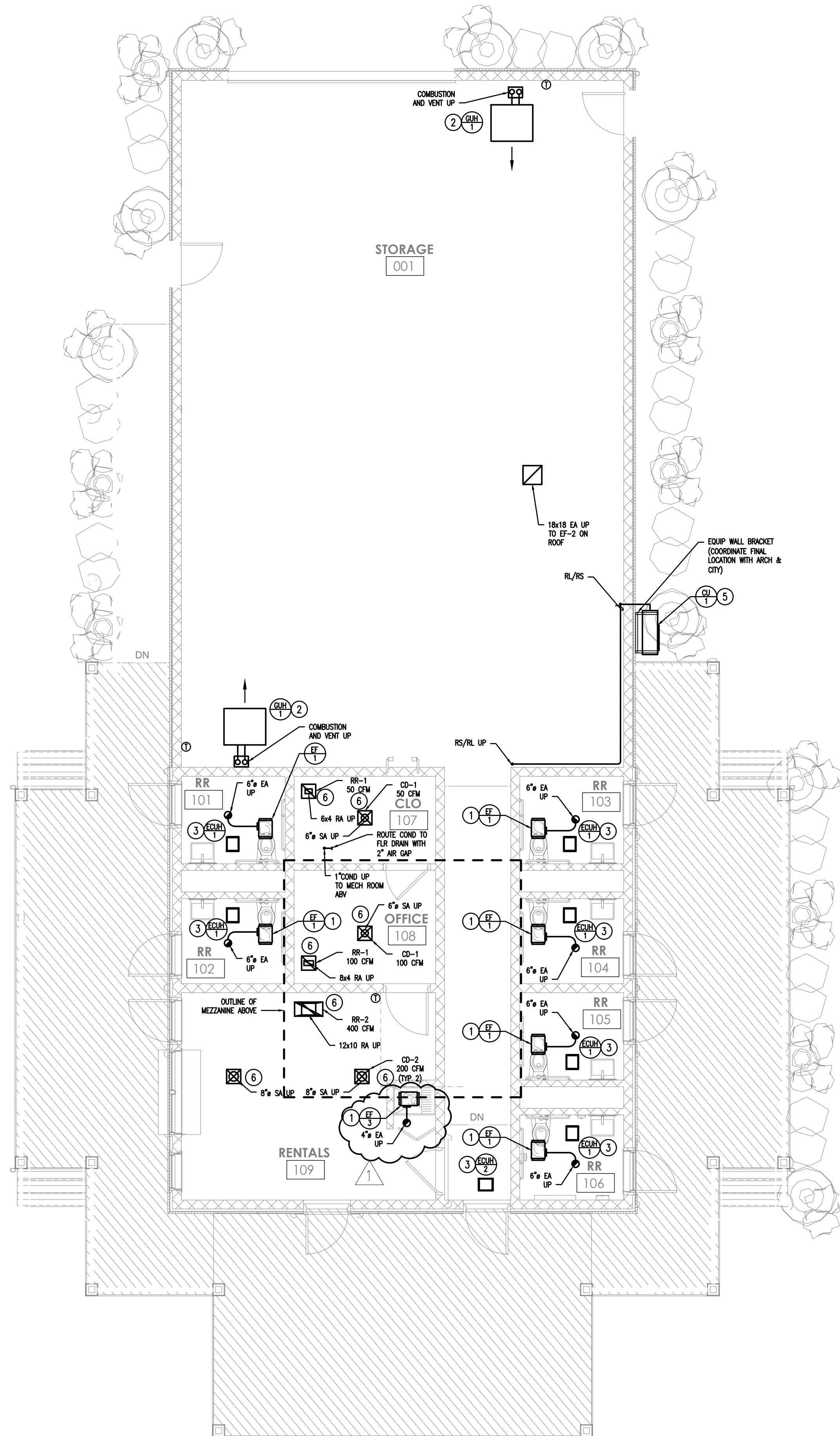
A. THE ATC CONTRACTOR SHALL GUARANTEE THE CONTROL SYSTEM IS FREE FROM DEFECTS IN WORKMANSHIP AND MATERIAL FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE. ANY ITEMS PROVEN TO BE DEFECTIVE WITHIN THE GUARANTEE PERIOD SHALL BE REPAIRED OR REPLACED FREE OF CHARGE. AFTER COMPLETION OF THE INSTALLATION, ALL EQUIPMENT PROVIDED UNDER THIS SPECIFICATION SHALL BE ADJUSTED AND CALIBRATED FOR PROPER OPERATION.

B. THE ATC CONTRACTOR SHALL PROVIDE MINIMUM 2 HOURS OF TRAINING TO THE OWNER FOR ATC SYSTEM OPERATION AND MAINTENANCE.

4. HVAC SEQUENCE OF OPERATION

A. GAS FURNACE/DX COOLING SPLIT SYSTEM (GF AND CONDENSING UNIT) <GF/CU>

1. GENERAL: GAS FURNACE/COOLING COIL AND ASSOCIATED CONDENSING UNIT SHALL OPERATE UTILIZING MANUFACTURER'S ON-BOARD CONTROLLER IN CONJUNCTION WITH THE MAIN ATC CONTROL PANEL CONTROLLER. THE ATC CONTROL PANEL CONTROLLER SHALL SET OCCUPIED (6AM TO 8PM; ADJ.) AND UNOCCUPIED (8PM TO 6AM) MODES INCLUDING TIMEFRAME AND DATE WITH OA AMBIENT ENABLE/DISABLE FOR THE HE



1 MECHANICAL - GARAGE FLOOR PLAN
M1.01 SCALE: 3/16"=1'-0"

MECHANICAL SYSTEM NOTES:

1. GENERAL NOTES:

- REFER TO MECHANICAL M0.00 & M0.01 FOR NOTES AND SPECIFICATIONS THAT PERTAIN TO THE SCOPE OF THIS PROJECT.
- REFER TO DWG M3.01 & M4.01 FOR MECHANICAL DETAILS AND SCHEDULES PERTAINING TO THIS PROJECT.
- CONTRACTOR SHALL PROVIDE ALL REQUIRED DUCTWORK, PIPING, VALVES & APPURTENANCES TO PROVIDE A COMPLETE WORKING SYSTEM.
- CONTRACTOR SHALL INSTALL ALL (N)EQUIPMENT IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND SHALL MAINTAIN ALL CLEARANCES (INSTALLATION AND MAINTENANCE) AS NOTED WITHIN THE WRITTEN INSTRUCTIONS.

2. GENERAL ROOF NOTES:

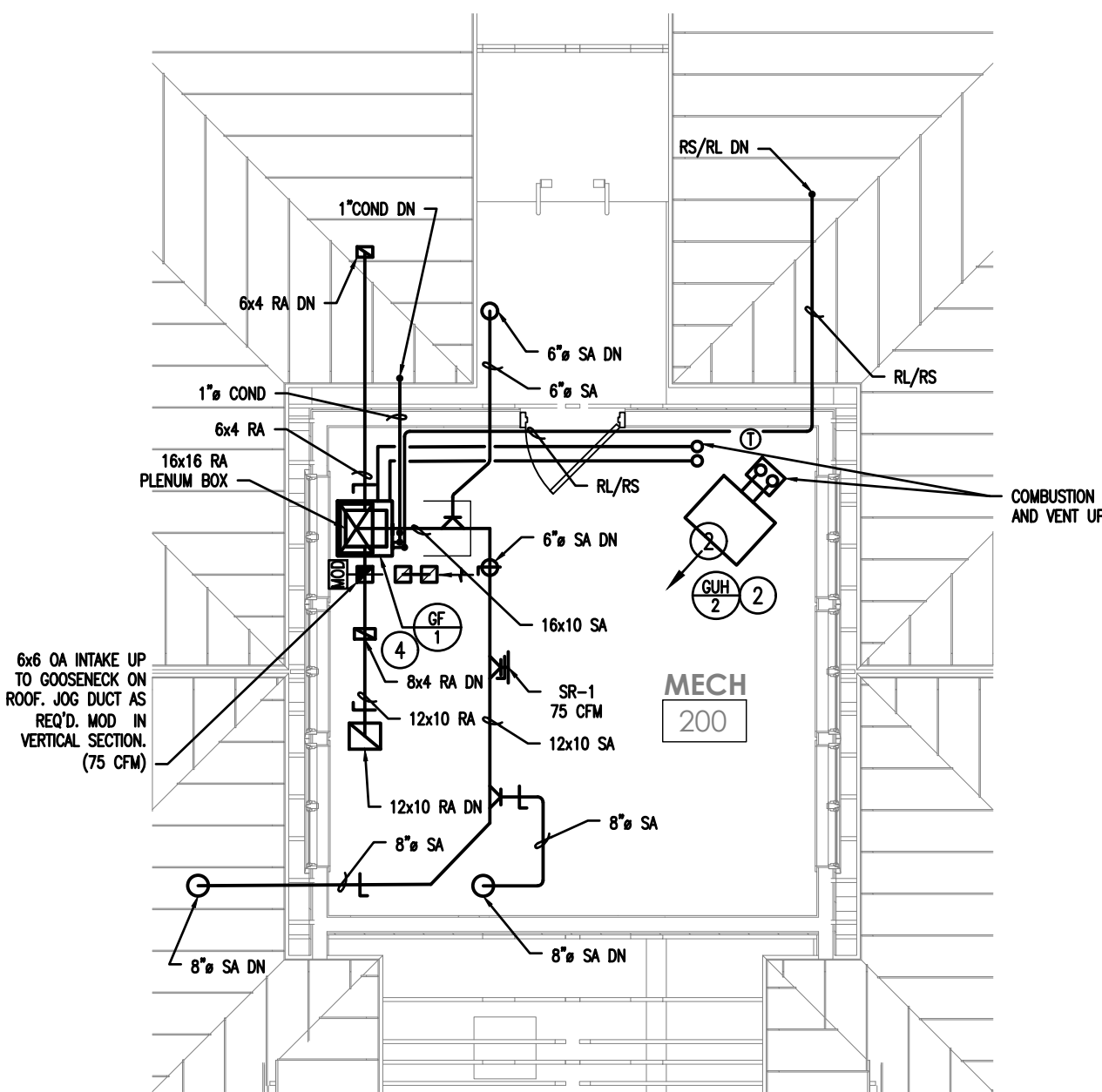
- EXHAUST PENETRATIONS SHALL TERMINATE A MINIMUM OF 3'-0" FROM THE PROPERTY LINE AND FROM THE ROOF EDGE. TYPICAL FOR ALL EXHAUST PENETRATIONS.
- ALL EXHAUST PENETRATIONS SHALL TERMINATE A MINIMUM OF 10'-0" FROM THE ANY OUTSIDE AIR INTAKES.
- ALL ROOF PENETRATIONS MUST BE SEALED WATERTIGHT AND MUST BE DONE SUCH THAT THE WARRANTY OF THE ROOF IS MAINTAINED. COORDINATE ALL PENETRATIONS WITH THE ARCHITECT.

MECHANICAL SYSTEM NOTES (CONTINUED):

3. NEW WORK KEYED NOTES:

GENERAL: NEW WORK NOTES ARE INDICATED WITH THE FOLLOWING SYMBOL (N) AND ARE NUMBERED AS FOLLOWS:

- FURNISH AND INSTALL NEW CEILING EXHAUST FAN WITH INTEGRAL BACKDRAFT DAMPER IN THE LOCATION SHOWN ON PLAN WITH THE PERFORMANCE AS INDICATED ON THE EQUIPMENT SCHEDULES. INTERLOCK FAN WITH THE LIGHT SWITCH. PROVIDE DUCTWORK UP THRU ROOF, TERMINATE TO WEATHER-PROOF EXHAUST CAP ON ROOF. REFER TO DETAIL 1/M3.01 FOR FURTHER REQUIREMENTS.
- FURNISH AND INSTALL NEW GAS FIRED UNIT HEATER IN THE LOCATION SHOWN ON PLAN WITH THE CAPACITIES LISTED IN THE EQUIPMENT SCHEDULE. PROVIDE ALL MOUNTING BRACKETS TO MOUNT UNIT FROM THE BUILDING STRUCTURE. COORDINATE ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR. PROVIDE WALL MOUNTED THERMOSTAT WITH CONTROL TRANSFORMER AS REQUIRED. COORDINATE GAS REQUIREMENTS WITH PLUMBING CONTRACTOR. PROVIDE CONCENTRIC VENT PIPING, ADAPTER, AND EXTERIOR VENT CAP.
- FURNISH AND INSTALL NEW ELECTRIC CABINET UNIT HEATER IN THE LOCATION SHOWN ON PLAN WITH THE CAPACITIES LISTED IN THE EQUIPMENT SCHEDULE. PROVIDE ALL MOUNTING BRACKETS TO MOUNT UNIT FROM WITHIN CEILING STRUCTURE. COORDINATE ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR. PROVIDE INTEGRAL THERMOSTAT WITH CONTROL TRANSFORMER AS REQUIRED.
- FURNISH AND INSTALL NEW GAS FIRED FURNACE (GF-1) IN THE LOCATION AS SHOWN ON PLAN WITH THE CAPACITIES AS LISTED IN THE EQUIPMENT SCHEDULE. PROVIDE ALL UNIT SUPPORT STAND AS NOTED IN THE PROJECT DETAILS. THE MAIN THERMOSTAT IS TO BE LOCATED WITHIN THE RENTAL ROOM. TEMPERATURE SENSOR LOCATED AS SHOWN ON PLAN. PROVIDE CODE REQUIRED ACCESS TO THE UNIT FOR MAINTENANCE, INSPECTION, AND REPAIRS. PROVIDE P-TRAP AND SLOPE CONDENSATE MINIMUM 1/8" PER FOOT TO FLOOR DRAIN WITHIN CLOSET BELOW. ROUTE REFRIGERANT PIPING FROM INDOOR UNIT TO OUTDOOR UNIT. FINAL REFRIGERANT PIPE SIZES TO BE BY MFR. PROVIDE ALL NEW SUPPLY, RETURN, AND OUTSIDE AIR DUCTWORK AND DUCTWORK ACCESSORIES.
- FURNISH AND INSTALL NEW CONDENSING UNIT AS SHOWN ON PLAN IN THE CAPACITIES LISTED IN THE EQUIPMENT SCHEDULE. PROVIDE UNIT MANUFACTURERS MOUNTING SUPPORT. EQUIPMENT ATTACHMENTS SHALL BE SECURED TO STRUCTURE SUITABLE FOR 120 MPH WIND. CONTRACTOR/VENDOR SHALL PROVIDE REQUIRED CALCULATIONS AND ATTACHMENT DETAILS AS DELEGATED DESIGN PER NOTE 19 ON M0.00. COORDINATE REFRIGERANT PIPE ROUTING THRU BUILDING TO THE INDOOR UNIT. PROVIDE EXTERIOR WALL PENETRATION OUTLET (TITAN AIREX OUTLET OR EQUIVALENT) REFRIGERANT PIPING SHALL BE ROUTED AS HIGH AS POSSIBLE TO MAINTAIN CLEAR PATHWAYS. MAINTAIN ALL MANUFACTURER'S MINIMUM CLEARANCES FOR SERVICE AND MAINTENANCE. CONTRACTOR SHALL COORDINATE FINAL LOCATION WITH THE ARCHITECT AND CITY. PROVIDE ELECTRICAL AND MECHANICAL DISTRIBUTION SUFFICIENT FOR FINAL DETERMINED LOCATION ALONG THE BUILDING.
- FURNISH AND INSTALL ALL AIR DEVICES AS INDICATED ON PLANS. COORDINATE MOUNTING FRAME WITH THE CEILING TYPE. PROVIDE ALL TRANSITIONS REQUIRED. CONFIRM FINISH COLOR WITH OWNER/ARCHITECT PRIOR TO PURCHASING.



2 MECHANICAL - MECH FLOOR PLAN
M1.01 SCALE: 3/16"=1'-0"

NEW CONSTRUCTION
34TH STREET
SANDCASTLE PARK
OPERATIONS
BUILDING

BLOCK 3403, LOTS 1 & 2
CITY OF OCEAN CITY
CAPE MAY COUNTY
NEW JERSEY
08226

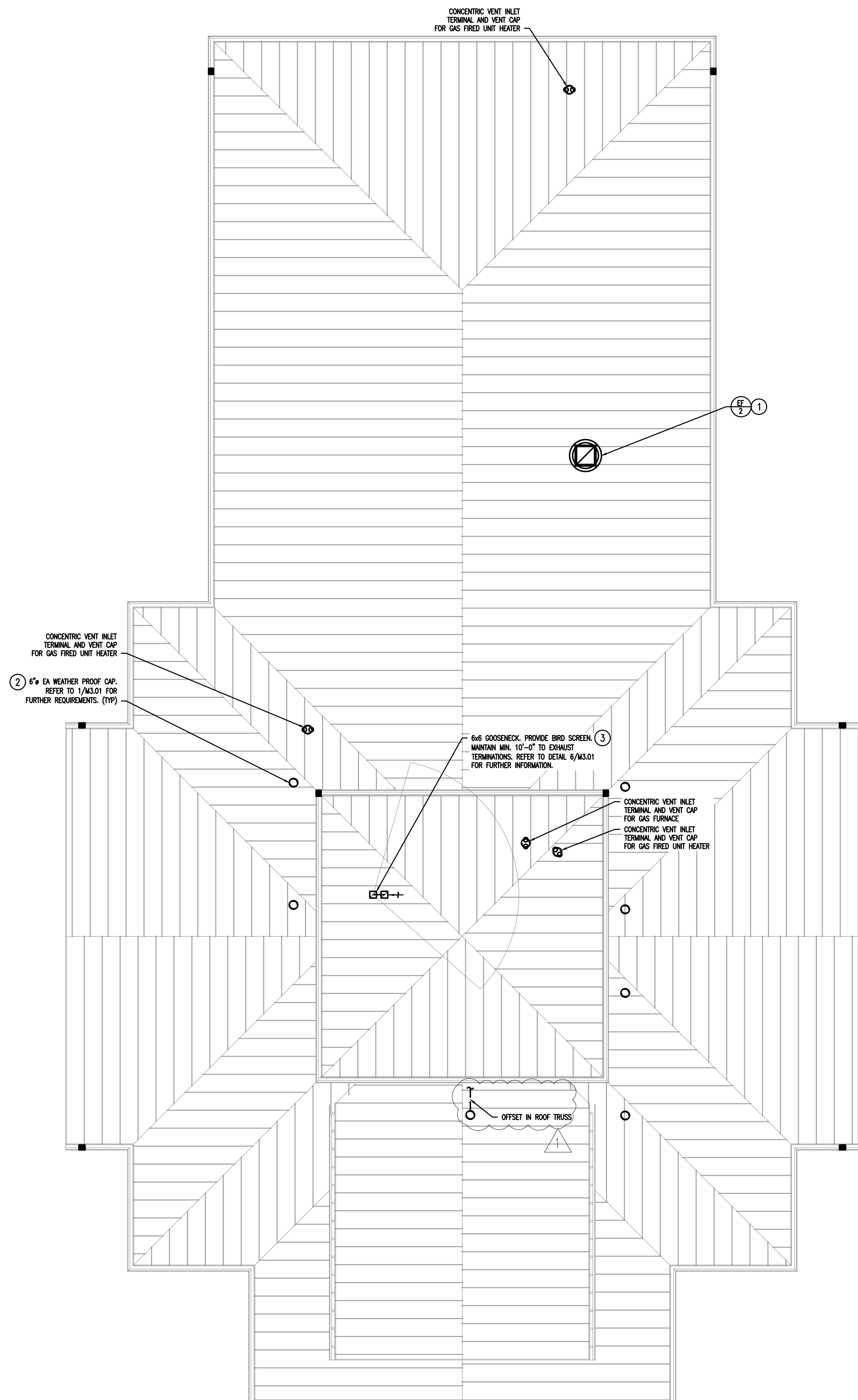
No.	Description	Date
1	PERMIT ISSUE	09.11.2026
2	CODE REVIEW COMMENTS	09.25.2026

MECHANICAL
FLOOR PLAN

Scale AS NOTED
Drawn by CEG
Date 09.11.2026

M1.01

Comission no. 250350



1
M1.02

MECHANICAL – ROOF (PARTIAL) PLAN

SCALE: 3/16"=1'-0"

0' 2' 4' 6' 12'

SCALE BAR: 3/16"=1'-0"

MECHANICAL SYSTEM NOTES:

1. GENERAL NOTES:

- A. REFER TO MECHANICAL M0.00 & M0.01 FOR NOTES AND SPECIFICATIONS THAT PERTAIN TO THE SCOPE OF THIS PROJECT.
- B. REFER TO DWG M3.01 & M4.01 FOR MECHANICAL DETAILS AND SCHEDULES PERTAINING TO THIS PROJECT.
- C. CONTRACTOR SHALL PROVIDE ALL REQUIRED DUCTWORK, PIPING, VALVES & APPURTENANCES TO PROVIDE A COMPLETE WORKING SYSTEM.
- D. CONTRACTOR SHALL INSTALL ALL (N)EQUIPMENT IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND SHALL MAINTAIN ALL CLEARANCES (INSTALLATION AND MAINTENANCE) AS NOTED WITHIN THE WRITTEN INSTRUCTIONS.

2. GENERAL ROOF NOTES:

- A. EXHAUST PENETRATIONS SHALL TERMINATE A MINIMUM OF 3'-0" FROM THE PROPERTY LINE AND FROM THE ROOF EDGE. TYPICAL FOR ALL EXHAUST PENETRATIONS.
- B. ALL EXHAUST PENETRATIONS SHALL TERMINATE A MINIMUM OF 10'-0" FROM THE ANY OUTSIDE AIR INTAKES.
- C. ALL ROOF PENETRATIONS MUST BE SEALED WATERTIGHT AND MUST BE DONE SUCH THAT THE WARRANTY OF THE ROOF IS MAINTAINED. COORDINATE ALL PENETRATIONS WITH THE ARCHITECT.

MECHANICAL SYSTEM NOTES (CONTINUED):

3. NEW WORK KEYED NOTES:

GENERAL: NEW WORK NOTES ARE INDICATED WITH THE FOLLOWING SYMBOL  AND ARE NUMBERED AS FOLLOWS:

- ① FURNISH AND INSTALL NEW ROOF MOUNTED EXHAUST FAN WITH INTEGRAL BACKDRAFT DAMPER IN THE LOCATION SHOWN ON PLAN WITH THE PERFORMANCE AS INDICATED ON THE EQUIPMENT SCHEDULES. PROVIDE DUCTWORK UP THRU ROOF.
- ② FURNISH AND INSTALL NEW EXHAUST DUCTWORK UP THROUGH ROOF. REFER TO DETAIL 1/M3.01 FOR ADDITIONAL REQUIREMENTS.
- ③ FURNISH AND INSTALL NEW OUTSIDE DUCTWORK UP THROUGH ROOF WITH GOOSENECK. REFER TO DETAIL 6/M3.01 FOR ADDITIONAL REQUIREMENTS.



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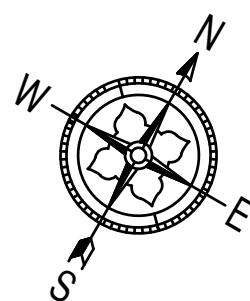
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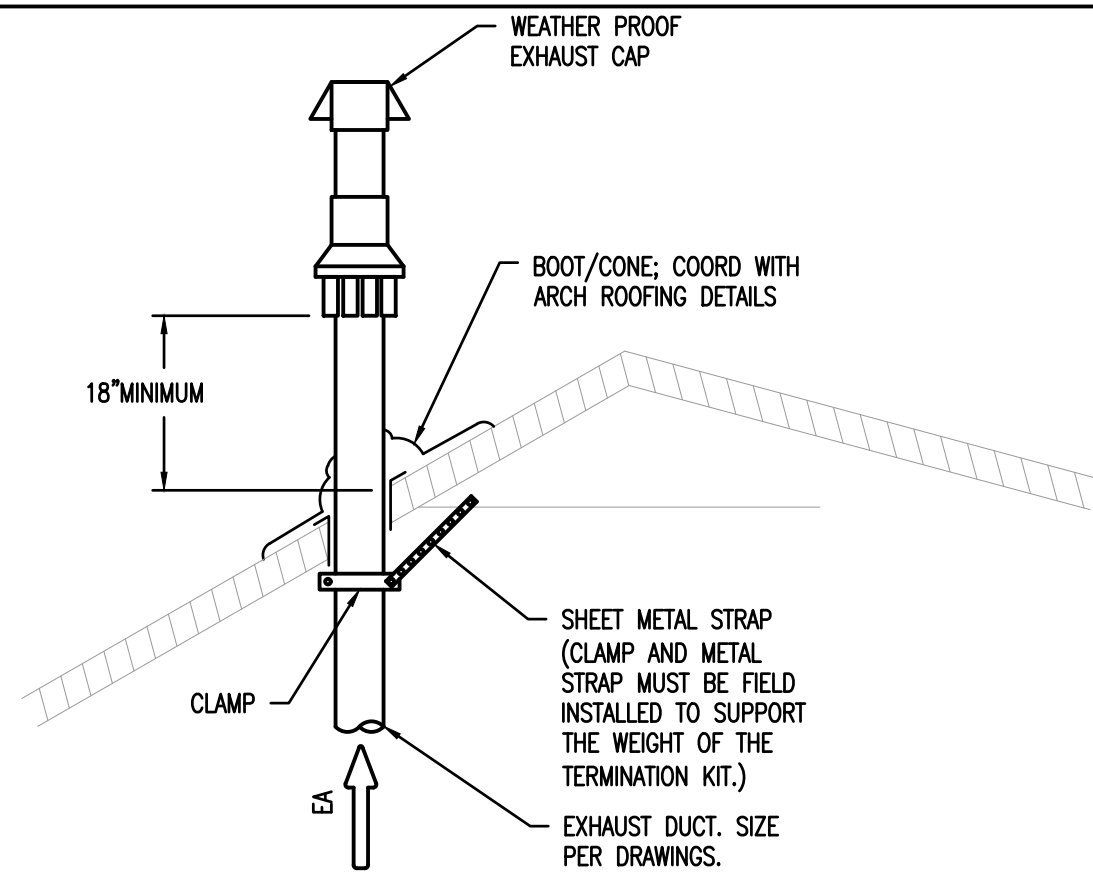
**MECHANICAL
ROOF PLAN**

Scale AS NOTED
Drawn by CEG
Date 09.11.2026

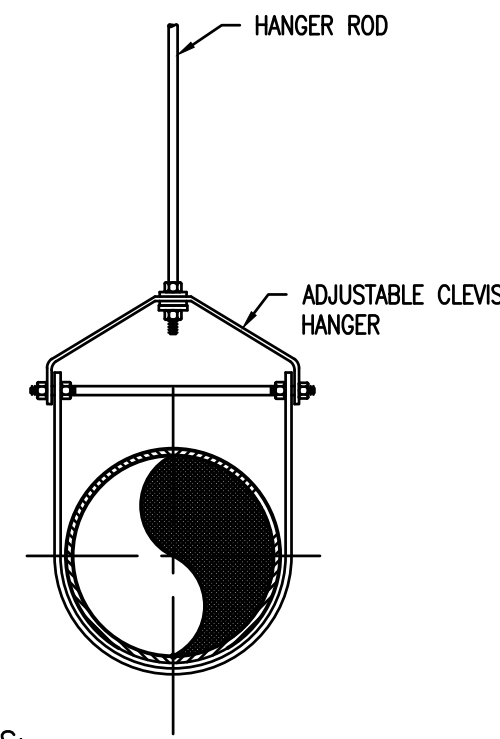
M1.02

Comission no. 250350

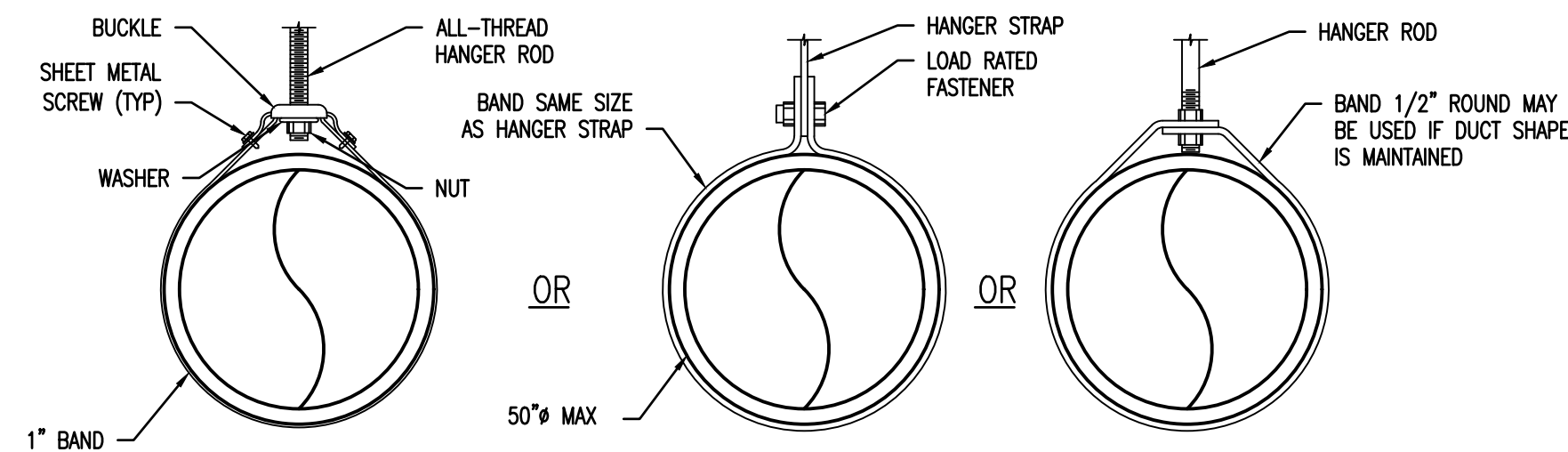




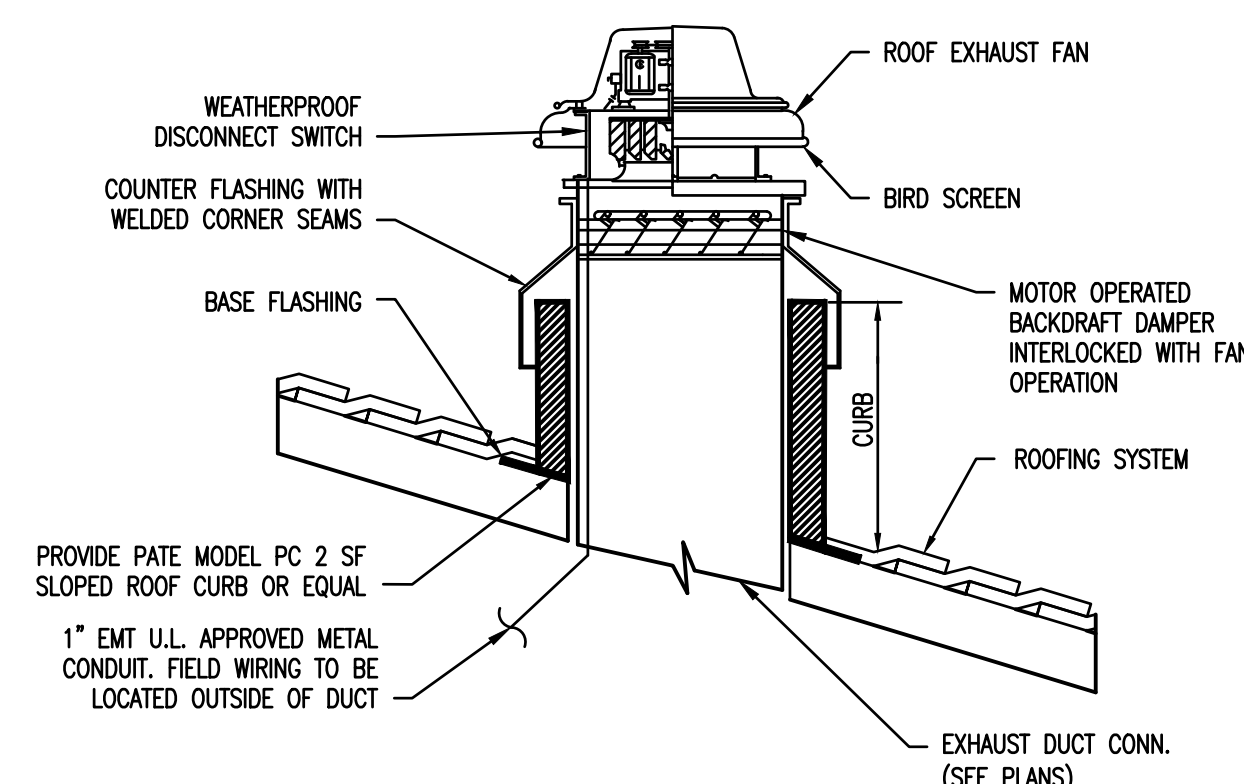
1 EXHAUST PENETRATION THRU ROOF DETAIL
M3.01 SCALE: N.T.S.



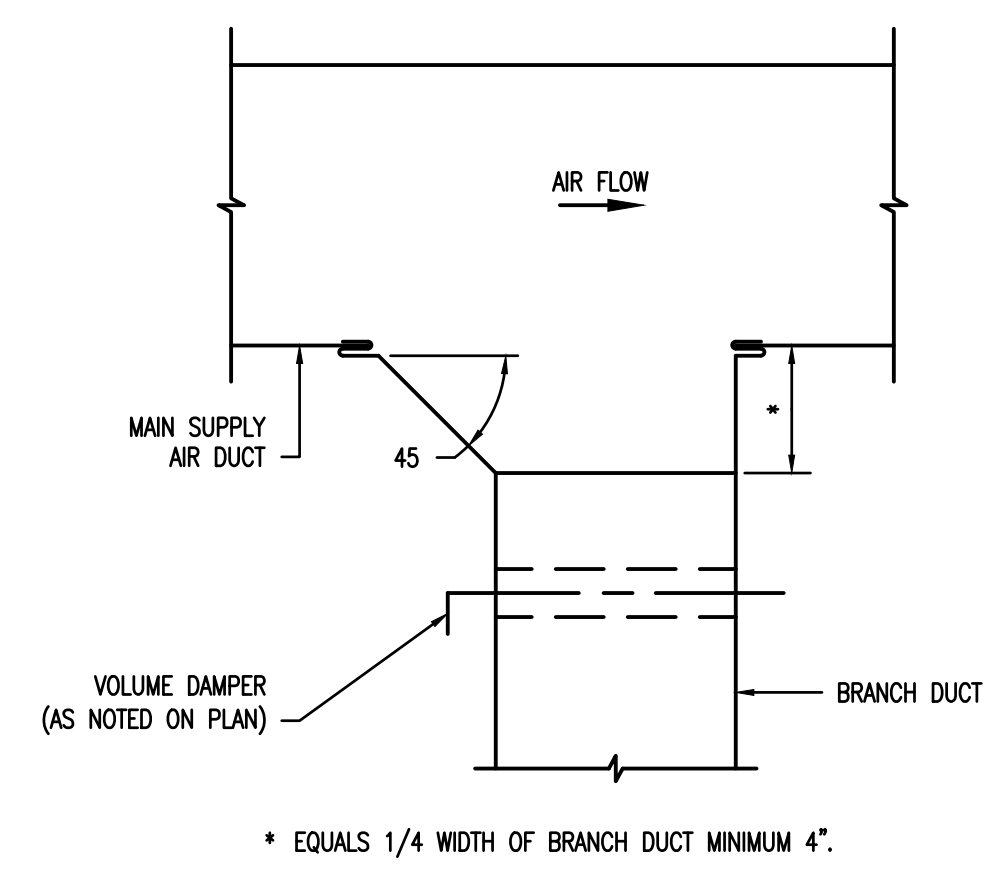
2 PIPE SUPPORT DETAIL
M3.01 SCALE: N.T.S.



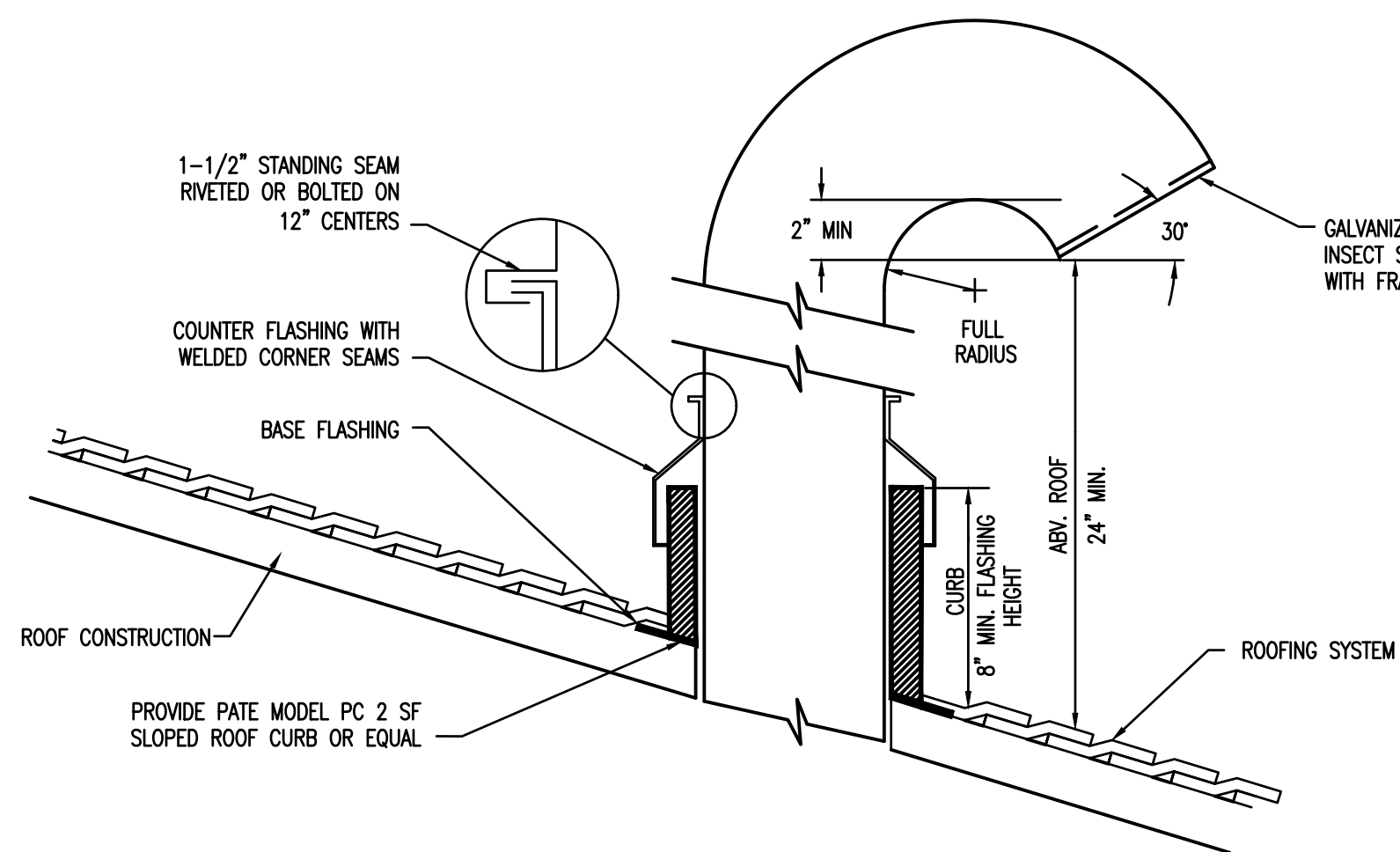
3 ROUND DUCT HANGER DETAIL
M3.01 SCALE: N.T.S.



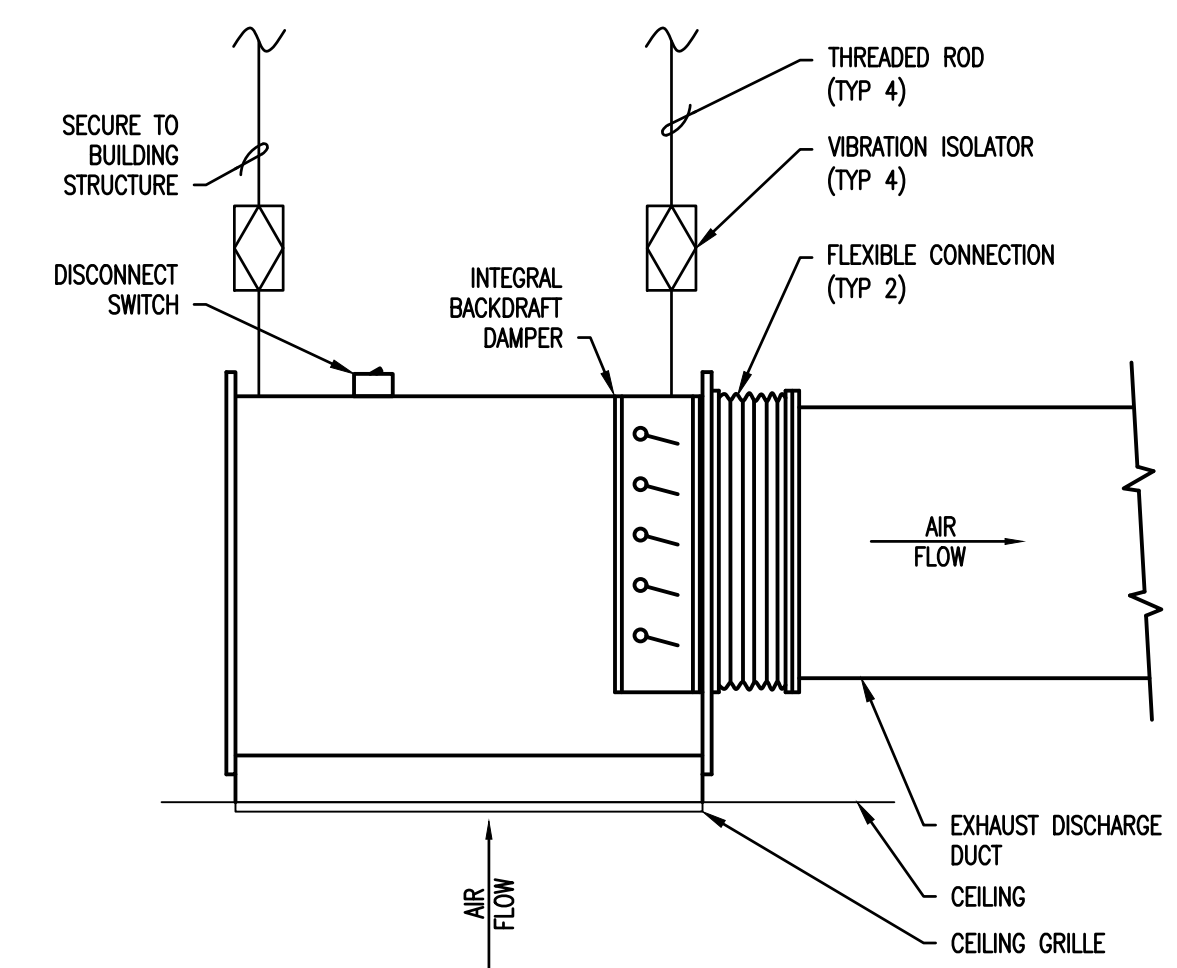
4 ROOF MOUNTED EXHAUST FAN DETAIL
M3.01 SCALE: N.T.S.



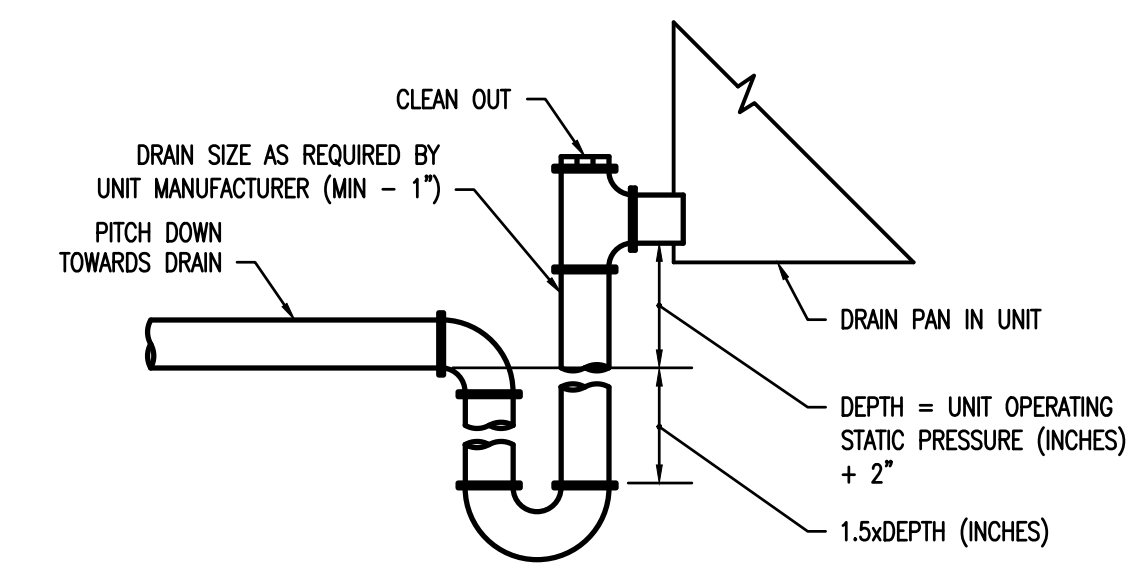
5 TYPICAL LOW PRESSURE RECTANGULAR DUCT TAKE-OFF DETAIL
M3.01 SCALE: N.T.S.



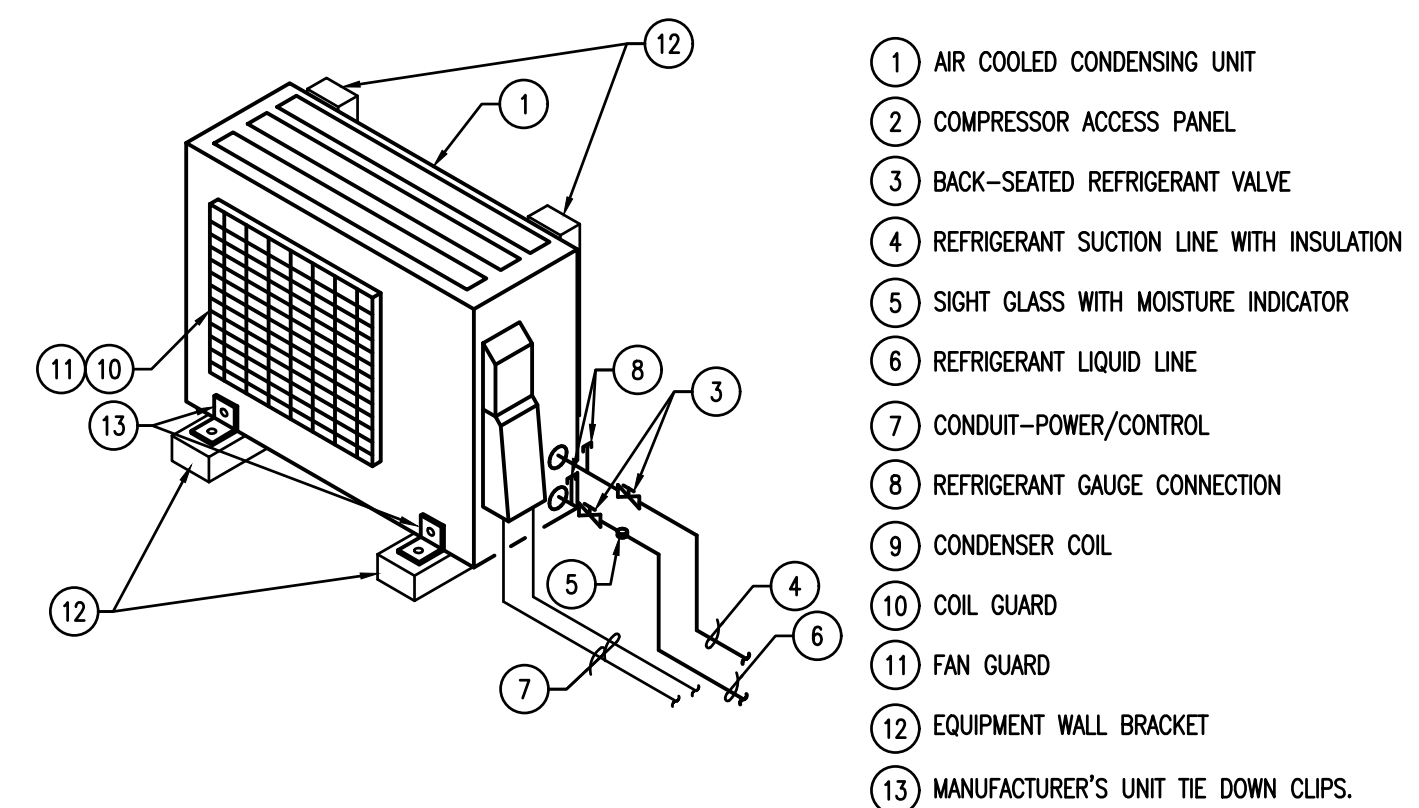
6 GOOSENECK DETAIL
M3.01 SCALE: N.T.S.



7 CEILING INLINE EXHAUST FAN DETAIL
M3.01 SCALE: N.T.S.

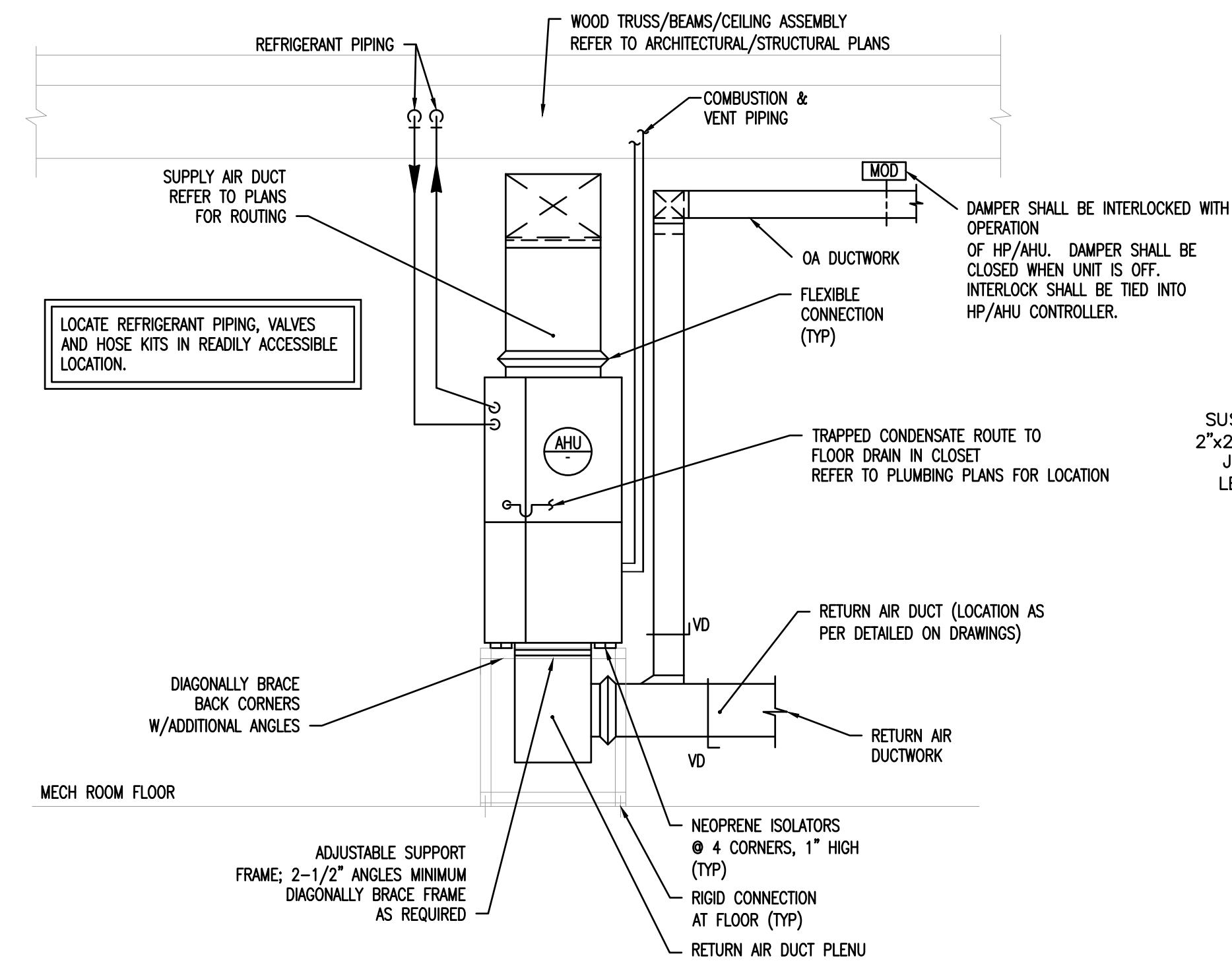


8 DRAW THRU COND. TRAP DETAIL
M3.01 SCALE: N.T.S.



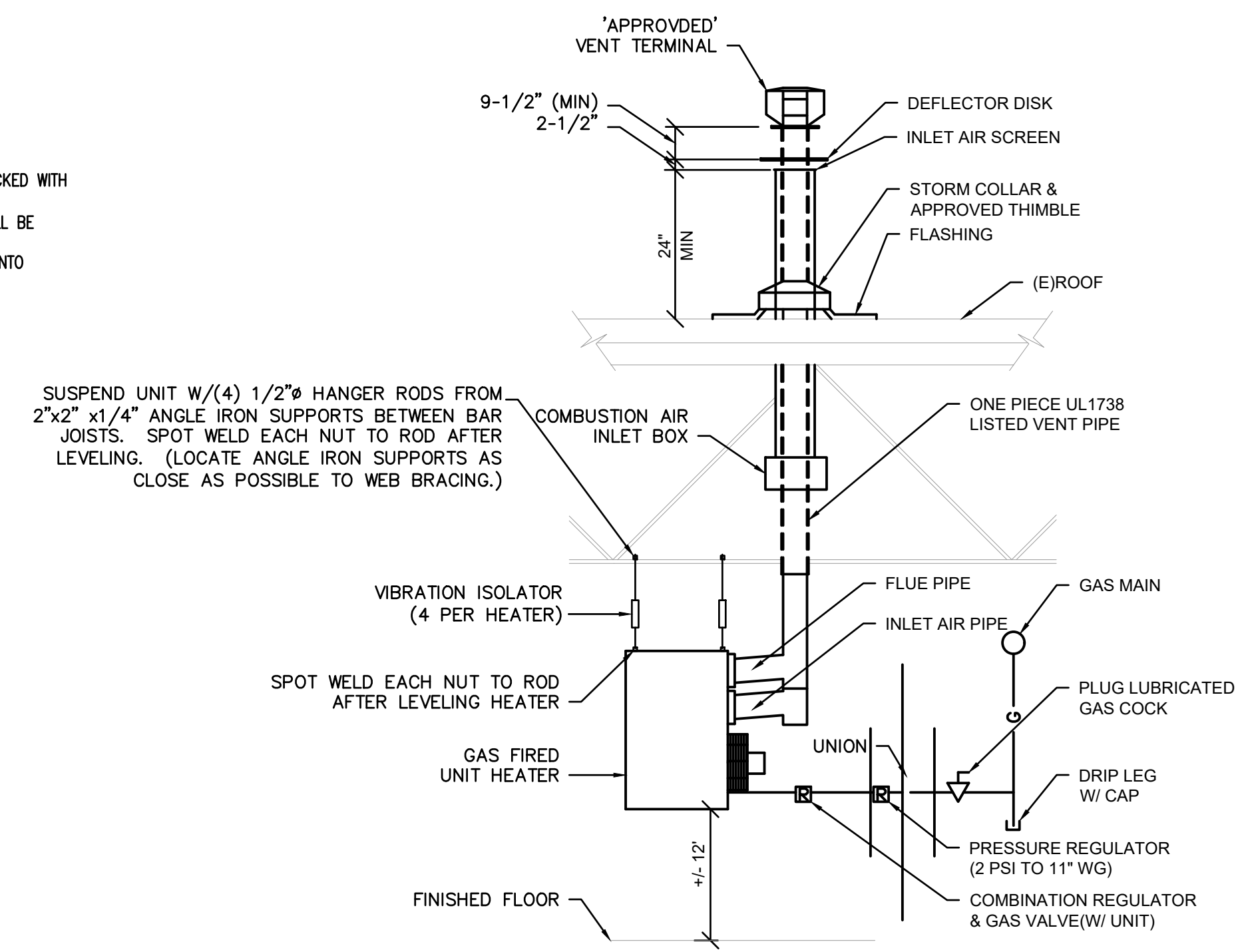
9 CONDENSING UNIT DETAIL
M3.01 SCALE: N.T.S.

NOTES:
1. UTILIZE QUICK-SLING WALL BRACKET OR APPROVED EQUAL.



10 GAS FURNACE INSTALLATION DETAIL
M3.01 SCALE: N.T.S.

DETAIL NOTES:
1. ANGLE IRON SUPPORT FRAMES HEIGHTS AS REQUIRED FOR PLENUM INSTALLATION.
2. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR REQUIRED SERVICE CLEARANCES.
3. FILTER GRILLE SHALL BE 2" THICK MERV-13



11 GAS FIRED UNIT HEATER DETAIL
M3.01 SCALE: N.T.S.

NOTES:
1. SLOPE INLET AIR AND FLUE 1/4" PER 1'-0" TOWARDS THE GAS FIRED UNIT HEATER
2. DISTANCE FROM INLET AIR AND FLUE PIPE VERTICAL SHALL BE 10'-0" MAXIMUM.
3. REFER TO MANUFACTURER'S WRITTEN INSTRUCTIONS FOR ALL INSTALLATION REQUIREMENTS.
4. CONTRACTOR SHALL PATCH/REPAIR EXISTING ROOFING STRUCTURE POST UNIT INSTALLATION.

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NEW CONSTRUCTION
**34TH STREET
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OPERATIONS
BUILDING**

BLOCK 3403, LOTS 1 & 2
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NEW JERSEY
08226

No.	Description	Date
	PERMIT ISSUE	09.11.2026

**MECHANICAL
DETAILS**

Scale: AS NOTED
Drawn by: CEG
Date: 09.11.2026

M3.01

Corrision no. 250350

GAS FURNACE W/ DX COOLING COIL & CONDENSING UNIT SCHEDULE																								
SYMBOL		INDOOR UNIT LOCATION	OUTDOOR UNIT LOCATION	INDOOR UNIT												OUTDOOR UNIT			WEIGHT (LBS)		BASIS OF DESIGN			
INDOOR UNIT	OUTDOOR UNIT			UNIT TYPE	TOTAL CFM	OA CFM	COOLING		COMPRESSOR		ELECTRICAL			GAS				ELECTRICAL			INDOOR UNIT	OUTDOOR UNIT	MANUFACTURER	MODEL NUMBER
		CAPACITY	SEER2				QTY	REFRIG TYPE	V/PH/Hz	MCA	MOP	INPUT (MBH)	OUTPUT (MBH)	HSPF2	AFUE	V/PH/Hz	MCA	MOP						
GF-1	CU-1	MECH ROOM	BUILDING EXTERIOR	GAS FURNACE W/ DX COIL	1200	70	17.1	16.2	1	R-32	115/1/60	8.1	15	60	58.2	8.8	98%	208/1/60	12.8	15	160	140	DAIKIN	DM97MC0603BNA (GF) W/ CAPEA2418C3 CASED COIL DH6VSA1810 (CU)

- NOTES:
- PROVIDE DISCONNECT SWITCH.
 - EVAPORATOR SHALL BE INSTALL VERTICAL. PROVIDE ALL BRACKETS AND MOUNTING ACCESSORIES (REFER TO PROJECT DETAILS FOR REQUIREMENTS)
 - PROVIDE MANUFACTURER'S PROGRAMMABLE 7-DAY THERMOSTAT.
 - UNIT SHALL BE ABLE TO PROVIDE HIGH HEATING DOWN TO -4 DEG F WITH HEATING OPERATION DOWN TO -13 DEF F.
 - THE OUTDOOR UNIT SHALL PROVIDE POWER TO THE INDOOR UNIT. PROVIDE ALL POWER AND CONTROL WIRING AS REQUIRED.
 - INDOOR UNIT SHALL PROVIDE COOLING OR HEATING.
 - THE SYSTEM SHALL INCLUDE AN R32 ALARM OUTPUT PLUG ON THE INDOOR UNIT AND OUTDOOR UNIT FOR NOTIFICATION OF R32 LEAK DETECTION. PROVIDE ALL REQUIRED ACCESSORIES FOR OPERATION.

AIR TERMINAL DEVICE SCHEDULE								
SYMBOL	SERVICE	TYPE	CFM RANGE	NECK SIZE	N.C. (@ MAX CFM)	FACE OVERALL DIMENSIONS WxL (IN.)	BASIS OF DESIGN	
							MANUFACTURER	MODEL NUMBER
CD-1	SUPPLY	SURFACE MOUNT	0-175	6" DIA	20	12x12	PRICE	SCD
CD-2	SUPPLY	SURFACE MOUNT	176-275	8" DIA	21	12x12	PRICE	SCD
RG-1	RETURN	SURFACE MOUNT	0-250	10x10	17	12x12	PRICE	530
RG-2	RETURN	SURFACE MOUNT	0-680	20x10	15	24x12	PRICE	530

- NOTES:
- REFER TO MECHANICAL DRAWINGS FOR LOCATIONS.
 - MOUNTING FRAME TYPE SHALL BE COORDINATED WITH THE CEILING/WALL CONSTRUCTION TYPE.
 - ALL GRILLES MOUNTED IN CEILINGS, SOFFITS, OR WALL SHALL HAVE A BAKED ENAMEL FINISH; COLOR TO BE SELECTED BY ARCHITECT DURING THE SUBMITTAL PROCESS FROM THE MANUFACTURERS FULL RANGE OF COLOR.
 - PROVIDE BUILT IN DAMPER (630D) FOR ALL EXHAUST GRILLES. VOLUME DAMPERS SHOWN ON PLAN ARE STILL REQUIRED.
 - PROVIDE BUILT IN OPPOSED BLADE DAMPERS FOR ALL WALL SUPPLY REGISTERS AND WALL RETURN/EXHAUST GRILLES.
 - ALL RETURN AND EXHAUST GRILLES SHALL HAVE 45 DEGREE DEFLECTION BLADES (3/4" SPACING). BLADES SHALL BE PARALLEL TO LONGER SIDE OF GRILLE.

EXHAUST FAN SCHEDULE													
SYMBOL	SERVICE	LOCATION	CFM	ESP	MOTOR HP	FAN RPM	MOTOR FLA	ELECTRICAL	CONTROLLED BY	OPER WEIGHT (LBS)	BASIS OF DESIGN		NOTES
								V/PH/HZ			MANUFACTURER	MODEL NUMBER	
EF-1	RESTROOM	CEILING	70	0.25	6 WATTS	935	0.1	115/1/60	LIGHT SWITCH	12	GREENHECK	SP-80-VG	1, 2, 3, 4, 5
EF-2	STORAGE 001	ROOF	1325	0.25	1/4	869	3.8	115/1/60	THERMOSTATIC	100	GREENHECK	G-140-VG	1, 3, 4, 6
EF-3	JANITORS CLOSET	CEILING	30	0.25	16 WATTS	675	0.15	115/1/60	LIGHT SWITCH	10	GREENHECK	SP-B70	1, 2, 3, 4, 5

- NOTES:
- PROVIDE PREMIUM EFFICIENCY MOTOR
 - PROVIDE MOUNTING HARDWARE WITH VIBRATION ISOLATION FOR ALL SUSPENDED EF'S
 - ALL FANS TO BE PROVIDED WITH INTEGRAL BACKDRAFT DAMPERS
 - PROVIDE DISCONNECT FOR ALL EF'S
 - EF-1 & EF-3 FANS ARE TO BE INTERLOCKED WITH THE LIGHT SWITCH FOR THE ROOM. REFER TO ELECTRICAL DRAWINGS.
 - EF-2 FAN TO BE THERMOSTATICALLY CONTROLLED FOR THE ROOM.

VENTILATION SCHEDULE - 34TH ST PARK															
ROOM NO.	ROOM NAME	AREA (FT²)	NO. OF OCCUP. OR FIXTURES	MECHANICAL CODE REQUIRED VENTILATION RATE					EXHAUST RATE			DESIGN			
				AREA OUTDOOR AIR FLOWRATE (CFM/FT²)	AREA O.A. REQ'D (CFM)	PEOPLE OUTDOOR AIR FLOWRATE (CFM)	PEOPLE O.A. REQ'D (CFM)	AIR DISTR. EFFECT	TOTAL O.A. REQ'D (CFM)	REQUIRED EXHAUST RATE (CFM/FIXTURE) OR (CFM/SF)	REQUIRED EXHAUST AIRFLOW (CFM)	TOTAL DESIGN O.A. (CFM)	TOTAL DESIGN AIR (CFM)	EXHAUST AIR (CFM)	
-															
001	STORAGE / GARAGE	1763	5	0.06	105	5	25	0.8	163	0.75	1,322	140	-	1,325	
101	RESTROOM	46	1	0.06	0	0	0	0.8	0	70	70	15	-	70	
102	RESTROOM	44	1	0.06	0	0	0	0.8	0	70	70	15	-	70	
103	RESTROOM	46	1	0.06	0	0	0	0.8	0	70	70	15	-	70	
104	RESTROOM	44	1	0.06	0	0	0	0.8	0	70	70	15	-	70	
105	RESTROOM	46	1	0.06	0	0	0	0.8	0	70	70	15	-	70	
106	RESTROOM	44	1	0.06	0	0	0	0.8	0	70	70	15	-	70	
107	CLOSET	47	0	0.06	5	0	0	0.8	6	-	-	10	50	-	
108	OFFICE	60	1	0.06	5	5	5	0.8	13	-	-	15	100	-	
109	RENTALS	226	1	0.06	15	5	5	0.8	25	-	-	25	400	-	
200	MECH ROOM	245	0	0.06	15	0	0	0.8	19	-	-	20	75	-	
		2611	13						225			300	625	1,745	

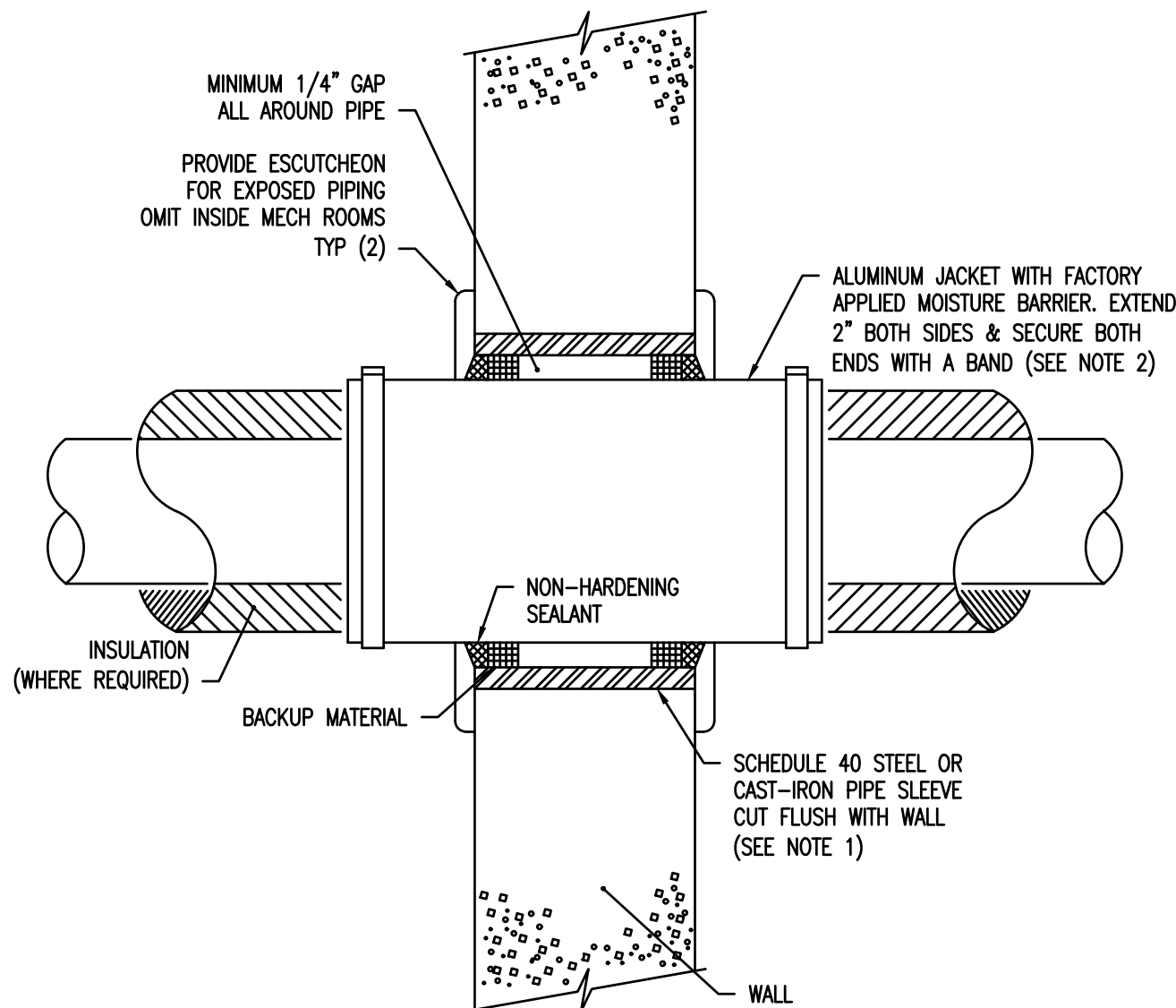
NOTE (*): ALL ROOMS TO BE VENTILATED IN ACCORDANCE WITH SECITON 402 OF THE NJ INTERNATIONAL MECHANICAL CODE 2021. THE MINIMUM OPENABLE AREA TO THE OUTDOORS SHALL BE FOUR (4) PERCENT OF THE FLOOR AREA BEING VENTILATED.

GAS FIRED UNIT HEATER SCHEDULE													
SYMBOL	LOCATION	DISCHARGE TYPE	FAN		dT (°F)	GAS CHARACTERISTICS		ELECTRICAL CHARACTERISTICS		MOUNTING HEIGHT (MAX)	WEIGHT (LBS)	BASIS OF DESIGN	
			CFM	THROW		INPUT (MBH)	OUTPUT (MBH)	AMPS	V/PH/Hz			MANUFACTURER	MODEL NUMBER
GUH-1	STORAGE 001	HORIZONTAL	1490	42	44	100	82	5.05	115/1/60	12	125	MODINE	HDS-100
GUH-2	MECH 200	HORIZONTAL	505	25	50	30	24.9	3.75	115/1/60	10	55	MODINE	HDS-30

- NOTES:
- PROVIDE WITH WALL MTD THERMOSTAT.
 - COORDINATE MOUNTING WITH ARCHITECTURAL AND STRUCTURAL DISCIPLINES PRIOR TO ORDERING MOUNTING HARDWARE.
 - PROVIDE WITH COMBUSTION AND VENT PIPING PER MANUFACTURER'S INSTALLATION INSTRUCTION. PROVIDE WITH CONCENTRIC VENT KIT AND ACCESSORIES FOR ROOF TERMINATION.
 - PROVIDE WITH FAN GUARDS
 - PROVIDE WITH GAS VALVE
 - PROVIDE WITH VIBRATION ISOLATION KIT.
 - DISCONNECT SWITCH BY ELECTRICAL CONTRACTOR. PROVIDE 24V CONTROL TRANSFORMER.

ELECTRIC CABINET UNIT HEATER SCHEDULE									
SYMBOL	LOCATION	CFM	ELECTRIC COIL				WEIGHT (LBS)	BASIS OF DESIGN	
			KW	NO. OF STEPS	V/PH/Hz	FLA		MANUFACTURER	MODEL NUMBER
ECUH-1	RESTROOMS	65	1	2	120/1/60	8.4	25	MARLEY/BERKO	U1000FA
ECUH-2	CORRIDOR	65	1.5	2	120/1/60	12.5	25	MARLEY/BERKO	U1500FA

- NOTES:
- PROVIDE FACTORY MOUNTED DISCONNECT SWITCH.
 - PROVIDE INTEGRAL THERMAL.
 - PROVIDE SURFACE MOUNTING SLEEVE FOR MOUNTING TO CEILING.



1 M4.01

TYPICAL WALL PENETRATION DETAIL

SCALE: N.T.S.

- NOTES:
- FOR GYP. BOARD WALLS PROVIDE MIN. 16 GAUGE GALV. STEEL SLEEVE W/ LOCK-TYPE LONGITUDINAL SEAM.
 - OMIT ALUMINUM JACKET IF PIPING IS UNINSULATED.
 - ALL EXTERIOR PIPING AND PENETRATIONS SHALL BE PAINTED WITH ONE COAT OF PRIMER SUITABLE FOR THE PAINTED SURFACE AND TWO COATS OF EXTERIOR GRADE PAINT W/ COLOR SELECTED BY OWNER.



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CE Proj No. 8C25228.00

NEW CONSTRUCTION
34TH STREET
SANDCASTLE PARK
OPERATIONS
BUILDING

BLOCK 3403, LOTS 1 & 2
CITY OF OCEAN CITY
CAPE MAY COUNTY
NEW JERSEY
08226

No.	Description	Date
	PERMIT ISSUE	09.11.2026
Δ	CODE REVIEW COMMENTS	09.25.2026

MECHANICAL SCHEDULES

Scale AS NOTED
Drawn by CEG
Date 09.11.2026

M4.01

Cormission no. 250350

LEGEND	
	Domestic Cold Water- New Domestic Cold Water- Existing Domestic Cold Water- Demo Filtered Cold Water- New Domestic Hot Water 120"- New Hot Water 120"- Existing Domestic Hot Water 120"- Demo Domestic Hot Water Return- New Domestic Hot Water Return- Existing Domestic Hot Water Return- Demo Sanitary Waste- New Sanitary Waste- Existing Sanitary Vent- New Sanitary Vent- Existing Sanitary Vent- Demo Storm Drainage- New Storm Drainage- Existing Storm Drainage- Demo Heat Traced Grease Waste Piping- New FLOOR CLEANOUT ABOVE GRADE & WALL CLEANOUT FLOW DIRECTION SHOCK ABSORBER PIPING DOWN/DROP @ ELBOW PIPING DOWN/DROP @ TEE PIPING RISE/UP @ ELBOW PIPING RISE/UP @ TEE P-TRAP CONCENTRIC REDUCER ECCENTRIC REDUCER UNION CAPPED OFF PIPE GATE VALVE BALL VALVE CHECK VALVE PRESSURE REGULATING/REDUCING VALVE BALANCING VALVE GAS COCK SOLENOID OPERATED AUTOMATIC GAS SHUT OFF VALVE BACK FLOW PREVENTER TEMPERATURE GAUGE PRESSURE GAUGE HOSE BIBB WALL HYDRANT VENT THRU ROOF PIPE SLEEVE IN-LINE PUMP FLOOR DRAIN FLOOR SINK ROOF DRAIN TRENCH/TROUGH DRAIN FLEXIBLE CONNECTOR WATER METER GAS METER MIXING VALVE RELIEF VALVE ACCESS DOOR POINT OF CONNECTION TO EXISTING POINT OF DEMOLITION TO EXISTING

NOTES:
1. ALL SYMBOLS OR ABBREVIATIONS ARE NOT NECESSARILY USED ON THE CONTRACT DRAWINGS.
2. THE SYMBOLS FOR WORK TO BE DEMOLISHED AND REMOVED ARE THE SAME AS THOSE ABOVE EXCEPT THEY ARE DRAWN WITH A DASHED LINETYPE.

GENERAL SPECIFICATIONS	
1.	ALL PLUMBING SHALL COMPLY WITH THE 2021 EDITION OF THE NATIONAL STANDARD PLUMBING CODE AS AMENDED BY THE NEW JERSEY UNIFORM CONSTRUCTION CODE.
2.	CONTRACTOR SHALL PROVIDE AND PAY ALL FEES AND PERMITS.
3.	THE DRAWINGS ARE INTENDED TO SHOW APPROXIMATE AND RELATIVE LOCATIONS OF MATERIALS AND EQUIPMENT. DRAWINGS SHALL NOT BE SCALED TO DETERMINE EXACT POSITIONS AND CLEARANCES. BECAUSE OF DIAGRAMMATIC LAYOUT AND SMALL SCALE OF DRAWINGS, NOT ALL RISES, DROPS, OFFSETS, VENTS, TRAPS AND RELATED SPECIALTIES ARE INDICATED. PROVIDE ALL SUCH PIPING, FITTINGS, VALVES AND SPECIALTIES REQUIRED IN SUCH CASES TO INSURE A COMPLETE AND PROPERLY OPERATING INSTALLATION IN ACCORDANCE WITH CODES AND WITHOUT EXTRA COST TO OWNER.
4.	WORK SHALL BE PERFORMED BY MECHANICS SKILLED IN PARTICULAR TRADE INVOLVED, THAT IS, PLUMBING WORK SHALL BE PERFORMED BY PLUMBERS, ELECTRICAL WORK SHALL BE PERFORMED BY ELECTRICIANS, MECHANICAL WORKED PERFORMED BY STEAM FITTERS AND SHEET METAL MECHANICS.
5.	ALL WORK SHALL BE INSPECTED, TESTED AND APPROVED BY THE PROPER AUTHORITIES HAVING JURISDICTION. CERTIFIED COPIES OF THESE APPROVALS SHALL BE DELIVERED TO THE OWNER BEFORE FINAL PAYMENT.
6.	SLEEVES SHALL BE INSTALLED THROUGH FLOORS AND FIRE RATED WALLS. SLEEVES SHALL BE 2 PIPE SIZES LARGER THAN PIPE PASSING THRU AND SHALL BE SCHEDULE 40 STEEL PIPE. PROVIDE FIRE PROOF SEAL BETWEEN PIPES AND SLEEVES WHEN PASSING THRU FIRE RATED WALLS/FLOORS. SLEEVES PASSING THRU FLOORS SHALL BE EXTENDED 4" ABOVE FLOOR.
7.	ESCUTCHEON PLATES SHALL BE PROVIDED ON ALL PIPE WHICH PASS THROUGH WALL PARTITIONS, FLOORS OR CEILINGS. PLATES SHALL BE ONE PIECE, CHROME FINISHED BRONZE.
8.	COREDRIILLING SHALL BE ACCOMPLISHED BY MECHANICAL MEANS IN A MANNER THAT WILL NOT AFFECT THE INTEGRITY OF THE STRUCTURE. AFTER INSTALLATION OF PIPING THRU THE COREDRILL, PACK THE ANNULAR SPACE WITH OAKUM OR FIBROUS GLASS. LEAVING A MINIMUM OF TWO INCHES AT EACH END TO BE FILLED AND FINISHED WITH A "FIRE BARRIER" MATERIAL EQUAL TO 3M "PENETRATION SEALING SYSTEMS" SUCH AS "CP-25 CAULK", "303 PUTTY" OR "FS-195 WRAP". APPLICATION OF "FIRE BARRIER" MATERIAL SHALL BE IN ACCORDANCE WITH MANUFACTURER'S STANDARDS AND APPLICABLE CODES.
9.	PROVIDE COPIES OF ALL TEST REPORTS TO OWNER.
10.	FLUSH TANK HANDLES FOR HANDICAPPED WATER CLOSETS SHALL FACE WIDE SIDE OF ROOM.
11.	COORDINATE LOCATION OF ALL ABOVE CEILING PIPING WITH MECHANICAL, ELECTRICAL & FIRE PROTECTION CONTRACTORS PRIOR TO INSTALLATION.
12.	IF CONFLICT ARISES BETWEEN ITEMS SHOWN ON DRAWINGS AND ITEMS SPECIFIED, THE MOST STRINGENT ITEM SHALL BE USED.
13.	THE INSTALLATION OF ALL INSULATION SHALL BE PERFORMED BY AN EXPERIENCED CRAFTSMAN IN A NEAT WORKMAN-LIKE MANNER AND SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS FOR SERVICE INTENDED.
14.	ALL NEW PLUMBING FIXTURES SHALL MEET THE APPROPRIATE "ANSI" STANDARDS LISTED IN THE PLUMBING SUBCODE. USE OF SUBSTANDARD AND NON-CONFORMING FOREIGN MADE PRODUCTS IS PROHIBITED.
15.	ALL PLUMBING SYSTEMS AND VALVES SHALL BE LABELED FOR PROPER IDENTIFICATION. NAMEPLATES, METAL TAGS, PLASTIC PIPE MARKERS IN ACCORDANCE WITH BRIMAR IDENTIFICATION & SAFETY PRODUCTS, BRIMAR INDUSTRIES, INC.
16.	INSULATE EXPOSED WASTE & WATER PIPING BELOW HANDICAPPED LAVATORIES WITH TRUBRO LAV GUARD 2 FORM FIT INSULATING COVERS.
17.	HANDICAPPED FIXTURE HEIGHTS SHALL BE IN ACCORDANCE WITH ICC/ANSI A-117.1.
18.	ALL PLUMBING FIXTURES SHALL BE PROVIDED WITH CHROME PLATED SHUT OFF VALVES (ANGLE STOPS), CHROME PLATED SUPPLIES AND P-TRAPS.
19.	PROVIDE FIRESTOPPING FOR ALL PIPING PENETRATIONS THROUGH WALLS AND FLOORS. ALL FIRESTOPPING SHALL MEET OR EXCEED THE UL RATINGS FOR WALLS AS NOTED ON ARCHITECTURAL DRAWINGS. FIRESTOPPING SHALL BE BY USE OF CAST IN PLACE OR POST INSTALLED DEVICES, CAULKING MATERIALS OR FOAMS. PENETRATIONS FOR COMBUSTIBLE PIPING SHALL BE PROVIDED WITH SEALANTS, COLLARS OR WRAP DEVICES DESIGNED TO EXPAND WHEN EXPOSED TO FIRE. CONTRACTOR SHALL SUBMIT MANUFACTURER'S SPECIFICATIONS AND TECHNICAL DATA FOR EACH TYPE OF PENETRATION REQUIRED WHICH SHALL INCLUDE COMPOSITION, LIMITATIONS, APPROVED UL LISTINGS AND INSTALLATION INSTRUCTIONS TO ENGINEER FOR REVIEW PRIOR TO INSTALLATION OF THESE DEVICES. INSTALLERS OF THESE DEVICES SHALL BE CERTIFIED, LICENSED OR OTHERWISE QUALIFIED BY THE MANUFACTURER AS HAVING BEEN PROVIDED THE NECESSARY TRAINING TO INSTALL PRODUCT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
20.	PROVIDE ACCESS DOORS WHERE INDICATED. ACCESS DOORS SHALL BE MINIMUM 12" SQUARE, PLACED TO ALLOW ACCESS TO SHUT OFF VALVES AND BALANCING VALVES. ACCESS DOORS TO MATCH CONFIGURATION OF CEILINGS.

ABBREVIATIONS		
AAV	ABOVE CEILING	AIR ADMITTANCE VALVE
ABV CLG	ABOVE FINISHED FLOOR	
AFF	BELOW FLOOR	
BLW FLR	BACKFLOW PREVENTER	
BFP	CAST IRON	
CI	CLEANOUT	
CO	COLD WATER	
CW	CONTINUE	
CONT	COLD WATER FIXTURE UNIT	
CWFU	EXISTING	
DF	DRAINAGE FOUNTAIN	
DFU	DRAIN	
DN	DOWN	
DR	ELECTRICAL CONTRACTOR	
EC	ELECTRICAL WATER COOLER	
EW	EXISTING	
EXIST	FLOOR CLEAN OUT	
FCW	FILTERED COLD WATER	
FD	FLOOR DRAIN	
FPC	FIRE PROTECTION CONTRACTOR	
G	GAS	
GC	GENERAL CONTRACTOR	
GPM	GALLONS PER MINUTE	
GW	GREASE WASTE	
HC	HANDICAPPED ACCESSIBLE	
HW	HOT WATER	
HWFU	HOT WATER FIXTURE UNIT	
IE	INVERT ELEVATION	
LAV	LAVATORY SINK	
MC	MECHANICAL CONTRACTOR	
MR	MOP RECEPTOR	
PC	PLUMBING CONTRACTOR	
PPM	PARTS PER MILLION	
RAC	RUN ABOVE CEILING	
SAN	SANITARY	
SK	SINK	
SPD	SUMP PUMP DRAIN	
S/S	STAINLESS STEEL	
T & P	TEMPERATURE & PRESSURE	
UG	UNDERGROUND	
UNO	UNLESS NOTED OTHERWISE	
V	VENT	
VTR	VENT THRU ROOF	
W	WASTE (OIL)	
W/	WITH	
WC	WATER CLOSET	
WCO	WALL CLEAN OUT	
WHA	WATER HAMMER ARRESTOR	
WSFU	WATER SUPPLY FIXTURE	

SANITARY WASTE / STORM SPECIFICATIONS	
1.	STORM, SANITARY WASTE AND VENT PIPE & FITTINGS SHALL BE STANDARD WEIGHT HURLESS CAST IRON ASTM A-888, WITH ALL STAINLESS STEEL HURLESS COUPLING WITH NEOPRENE GASKETS IN ACCORDANCE WITH ASTM C-564 & CISPI-310. ALL COUPLINGS TO BE HEAVY DUTY EQUAL TO HUSKY SD 4000 WITH SEALING SLEEVE CONFORMING TO ASTM C-564 FOR ABOVE SLAB INSTALLATION. HUB & SPIGOT PIPE & FITTINGS SHALL BE IN ACCORDANCE WITH ASTM A-74 WITH COMPRESSION TYPE GASKETS PER ASTM C-564 FOR BELOW SLAB INSTALLATION.
	ALL CAST IRON SOIL PIPE, FITTINGS COUPLINGS AND GASKETS SHALL BE MARKED W/THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE, IDENTIFIED IN ACCORDANCE WITH THE REQUIREMENTS OF CISPI 310, AND BE LISTED BY NSF INTERNATIONAL AND THE COUNTRY OF ORIGIN & IDENTIFICATION OF THE ORIGINAL MANUFACTURER.
2.	STORM, SANITARY WASTE & VENT PIPE SHALL BE AIR TESTED TO NOT LESS THAN 5 PSIG PRESSURE IN THE SYSTEM. PIPING SYSTEM SHALL SUSTAIN A CONSTANT PRESSURE FOR NOT LESS THAN 15 MINUTES. IF LEAKS OCCUR DURING SYSTEM TESTING, REPAIRS SHALL BE MADE AND SYSTEM RETESTED UNTIL NO EVIDENCE OF LEAKS EXIST FOR THE DURATION OF THE TEST. DRAIN & VENT PIPING LOCATED ABOVE AREAS WHERE FOOD IS STORED, PREPARED OR DISPLAYED SHALL BE AIR TESTED TO NOT LESS THAN 10 PSIG.
3.	CLEANOUTS SHALL BE TYLER PIPE CLEANOUT BODY STANDARD FERRULE 2-11 WITH TYPE "B" BRASS PLUG FOR ABOVE FLOOR. FLOOR CLEANOUTS SHALL BE JR SMITH SERIES 4020 W/ROUND ADJUSTABLE BRONZE TOP. GRADE CLEANOUTS SHALL BE JR SMITH SERIES 4250. WALL CLEANOUTS SHALL BE JR SMITH FIGURE 4402. CLEANOUTS SHALL BE INSTALLED AT BASE OF EACH RISER, AT EACH CHANGE OF DIRECTION OF HORIZONTAL RUN MORE THAN 45°, AND EVERY 75' OF HORIZONTAL RUN (FOR 4" DIA) AND EVERY 100' OF HORIZONTAL RUN (FOR 5" DIA & LARGER).
4.	HORIZONTAL DRAIN PIPING SHALL BE INSTALLED AT UNIFORM SLOPE NOT LESS THAN 1/4" PER FOOT FOR 2" AND SMALLER AND NOT LESS THAN 1/8" PER FOOT FOR 3" AND LARGER. LESSER SLOPE MAY BE PERMITTED AS APPROVED BY LOCAL ADMINISTRATIVE AUTHORITY.
5.	ALL FLOOR DRAINS SHALL HAVE MINIMUM 4" DEEP SEAL TRAPS.
6.	IN THE REMOVAL OF ANY PART OF A DRAINAGE SYSTEM, DEAD ENDS SHALL BE AVOIDED EXCEPT WHERE NECESSARY TO EXTEND TO A CLEANOUT SO AS TO BE ACCESSIBLE.
7.	ALL WASTE PIPING LOCATED INSIDE EXTERIOR WALLS SHALL BE INSULATED WITH 2"THICK FIBERGLASS PREFORMED INSULATION WITH VAPOR JACKET AND SELF- SEALING TAPE, EQUAL TO OWENS-CORNING AS/SSL-2.
8.	INSTALL INSULATION ON ALL HORIZONTAL STORM DRAIN PIPING AND WHERE CONDENSATION MAY CAUSE STAIN DAMAGE TO FLOORS & CEILINGS, INCLUDING ROOF DRAIN BODIES. INSULATION SHALL BE AS DESCRIBED IN DOMESTIC WATER NOTE #6.
9.	VENTS THROUGH ROOF SHALL TERMINATE NOT LESS THAN 6" ABOVE THE ROOF MEASURED FROM THE HIGHEST POINT WHERE THE VENT INTERSECTS THE ROOF. VENT TERMINALS SHALL BE MADE WATERTIGHT WITH THE ROOF BY PROPER FLASHING. WHERE VENTS ARE CLOSER THAN TEN FEET FROM ANY VENTILATING OPENINGS THEY SHALL BE EXTENDED TO TWO FEET ABOVE SUCH OPENINGS.
10.	INDIRECT WASTE PIPING SHALL BE COPPER TUBE ASTM B306 WITH SOLDER JOINT DWV FITTINGS IN ACCORDANCE WITH ASME B16.23.
11.	INDIRECT WASTE PIPING SERVING ICE MAKERS AND ICE STORAGE BINS SHALL BE INSULATED WITH API/ARMAFLEX SS (SELFSEAL) FLEXIBLE ELASTOMERIC THERMAL INSULATION, 1/2"THICKNESS, OR APPROVED EQUAL.

DOMESTIC WATER SPECIFICATIONS	
1.	HOT & COLD WATER DISTRIBUTION PIPE SHALL BE ASTM B88 TYPE "L" SEAMLESS COPPER TUBE WITH SOLDER JOINT FITTINGS USING 95-5 SOLDER PER ASTM B32 OR "PROPRESS" BY VIEGA OR APPROVED EQUAL. ALL HOT & COLD WATER DISTRIBUTION PIPING SHALL BE WATER RATED FOR NOT LESS THAN 100PSI @ 180°F. PIPING MATERIALS FOR USE ON DOMESTIC WATER SYSTEMS INCLUDING FIXTURES & VALVES SHALL NOT CONTAIN MORE THAN 0.2 PERCENT LEAD.
2.	PRIOR TO DISINFECTION, POTABLE WATER PIPING SHALL BE FLUSHED WITH WATER UNTIL NO DIRTY WATER APPEARS AT THE POINTS OF OUTLETS.
3.	POTABLE WATER PIPING SHALL BE DISINFECTED PRIOR TO USE PER NATIONAL STANDARD PLUMBING CODE. THE PIPING SHALL BE FILLED WITH A WATER CHLORINE SOLUTION CONTAINING AT LEAST 50 PARTS PER MILLION OF CHLORINE AND SHALL BE VALVED OFF FOR 24 HOURS OR FILLED WITH A WATER CHLORINE SOLUTION CONTAINING AT LEAST 200 PARTS PER MILLION OF CHLORINE AND ALLOWED TO STAND FOR AT LEAST 3 HOURS. FOLLOWING THE ALLOWED STANDING TIME, THE SYSTEM SHALL BE FLUSHED WITH POTABLE WATER UNTIL NO CHLORINE REMAINS IN THE SYSTEM. PROVIDE RESULTS OF DISINFECTION TO OWNER WHEN COMPLETE. STERILIZATION WORK SHALL COMPLY WITH NSPC 2015 SECTION 10.9.2, PARAGRAPHS A1 TO A9.
4.	DOMESTIC WATER PIPE SHALL CONSIST OF A HYDROSTATIC PRESSURE TEST OF 25 PSIG ABOVE THE WORKING PRESSURE UNDER WHICH IT IS OPERATED FOR NOT LESS THAN 60 MINUTES.
5.	IF LEAKS OCCUR DURING TESTING, REPAIRS SHALL BE MADE AND SYSTEM RETESTED UNTIL NO EVIDENCE OF LEAKS EXIST FOR THE DURATION OF THE TEST.
6.	DOMESTIC WATER PIPE SHALL BE INSULATED WITH FIBERGLASS PREFORMED INSULATION WITH VAPOR JACKET AND SELF- SEALING TAPE EQUAL TO OWENS-CORNING AS/SSL-2. -DOMESTIC COLD WATER: ALL SIZES - 1" THICK -DOMESTIC HOT WATER AND HW RETURN: 1" THICK UP TO 1-1/4" DIAMETER, 1-1/2" THICK FOR PIPING 1-1/2" AND LARGER. -DOMESTIC WATER PIPING IN EXTERIOR WALLS: 2"THICK.
7.	BALL VALVES SHALL BE EQUAL TO APOLLO LEAD FREE SERIES 77CLF-100, 77CLF-200, 70LF-100 OR 70LF-200 RATED FOR 150 PSIG W.O.G. FOR 4" AND SMALLER PER MSS SP-110.
8.	SHOCK ABSORBER SHALL BE JR SMITH FIGURE 5005 THRU 5030 AS APPLICABLE, & CERTIFIED TO BE TESTED IN ACCORDANCE WITH STANDARD PDI WH-201& ASSE 1010.
9.	CHECK VALVES SHALL BE EQUAL TO APOLLO LEAD FREE SERIES 161SLF PER MSS SP-80. 4" & LARGER CHECK VALVES SHALL BE EQUAL TO APOLLO SERIES 910F PER MSS SP-71.
10.	PROVISIONS SHALL BE MADE FOR EXPANSION & CONTRACTION OF ALL HOT & HOT WATER RETURN PIPING. PROVIDE EXPANSION LOOP WITH APPROPRIATE ANCHORAGE IN RUNS OF PIPING EXCEEDING 100 FEET.
11.	BACKFLOW PREVENTER FOR ICE MACHINE SHALL BE LEAD FREE APOLLO VALVE MODEL DUCLF4N, DUAL CHECK, AND SHALL BE LISTED UNDER ASSE 1024 STANDARDS.
12.	BALANCING VALVES SHALL BE CIRCUIT SOLVER MODEL CSUA WITH OPTIONAL CHECK VALVE, BALL VALVES, AND THERMOMETER. SEE PLAN FOR SIZING.

SUBMITTAL NOTES	
1.	CONTRACTOR SHALL PROVIDE SUBMITTALS FOR ALL PIPING, VALVES, EQUIPMENT, ETC IN ACCORDANCE WITH ARCHITECTURAL SPECIFICATIONS. NO WORK SHALL BEGIN UNTIL APPROVAL HAS BEEN OBTAINED FROM ARCHITECT/ENGINEER.
2.	CONTRACTOR SHALL SUBMIT COORDINATION DRAWINGS 1/4" SCALE MINIMUM FOR REVIEW AND APPROVAL AS STATED IN NOTE 1 ABOVE.

"AS-BUILT" CONSTRUCTION DRAWING NOTES	
1.	A COMPLETE SET OF "AS-BUILT" DRAWINGS, (1) SET ON DISC IN PDF FORMAT AND (1) SET OF ELECTRONIC FILES PRODUCED IN AUTOCAD FORMAT RELEASE 2020. SHALL BE FURNISHED TO THE OWNER AND ENGINEER UPON PROJECT COMPLETION.

HANGERS & SUPPORTS	
1.	HANGERS AND ANCHORS SHALL BE SECURELY ATTACHED TO BUILDING CONSTRUCTION AT SUFFICIENTLY CLOSE INTERVALS TO SUPPORT PIPING AND ITS CONTENTS. A. VERTICAL PIPING FOR CAST IRON SHALL BE SUPPORTED AT BASE AND AT EACH STORY HEIGHT. B. VERTICAL PIPING FOR COPPER SHALL BE SUPPORTED AT EACH STORY HEIGHT BUT NOT MORE THAN 10 FOOT INTERVALS. C. HORIZONTAL PIPING FOR CAST IRON SHALL BE SUPPORTED WITH MINIMUM ONE HANGER LOCATED WITHIN 18" OF EACH JOINT UP TO 10 FOOT MAXIMUM PIPE LENGTH, AT CHANGES IN DIRECTION, AND AT EACH BRANCH CONNECTION. WHERE PIPE IS SUSPENDED BY NON-RIGID HANGERS MORE THAN 18" LONG PROVIDE LATERAL SUPPORT AT A MINIMUM 25 FOOT MAXIMUM SPACING. LATERAL SUPPORT SHALL CONSIST OF EITHER A SWAY BRACE OR EITHER A CHANGE IN DIRECTION OR A BRANCH CONNECTION THAT PROVIDES THE REQUIRED LATERAL SUPPORT. D. HORIZONTAL PIPING FOR COPPER SHALL BE SUPPORTED AT 6 FOOT INTERVALS FOR PIPE SIZES 1 1/4" AND SMALLER AND AT 10 FOOT INTERVALS FOR PIPE SIZES 1 1/2" AND LARGER. WHERE PIPE IS SUSPENDED BY NON-RIGID HANGERS MORE THAN 18" LONG PROVIDE LATERAL SUPPORT. 2. ALL SUPPORTS IN CONTACT WITH COPPER PIPING SHALL BE PLASTIC COATED. 3. INSTALL METAL SHIELDS ON HANGERS SUPPORTING INSULATED PIPE. 4. PROVIDE HANGERS THAT ARE U.L. LISTED AND LABELED. 5. ALL DOMESTIC WATER AND SANITARY WASTE PIPE SUPPORTS SHALL BE IN ACCORDANCE WITH NSPC CHAPTER 8, MSS SP-58, 69 & 89. 6. PLUMBING SYSTEMS SHALL BE INSTALLED SO AS TO PREVENT STRAINS & STRESSES WHICH WILL EXCEED STRUCTURAL STRENGTH OF PIPE. PROVISIONS SHALL BE MADE FOR EXPANSION & CONTRACTION OF PIPING. 7. HANGERS, ANCHORS AND SUPPORTS SHALL BE OF METAL. OTHER MATERIAL OF SUFFICIENT STRENGTH TO SUPPORT THE PIPING AND ITS CONTENTS IS ACCEPTABLE. ALL SUPPORTS AND FASTENERS LOCATED OUTSIDE OR IN CORROSIVE AREAS SHALL BE GALVANIZED. 8. MINIMUM ROD DIAMETER FOR SINGLE RIGID SUPPORTS SHALL BE AS FOLLOWS: A. FOR 1/4" THRU 2" PIPE: 3/8"DIAMETER B. FOR 2 1/2" AND 3" PIPE: 1/2"DIAMETER C. FOR 4" AND 5" PIPE: 5/8"DIAMETER D. RODS MAY BE REDUCED ONE SIZE FOR DOUBLE ROD HANGERS(3/8" DIA MIN) 9. FOR ABOVE GROUND WASTE PIPING OVER 4" IN DIAMETER USING NO-HUB COUPLINGS. COUPLINGS SHALL BE RESTRAINED WITH BRACES, BLOCKS, RODDING OR OTHER SUITABLE METHODS AS RECOMMENDED BY THE COUPLING MANUFACTURER OR ENGINEER.

EXCAVATION NOTES	
1.	PROVIDE ALL EXCAVATING AND BACKFILLING, AND ALL SHORING, SAWCUTTING, SHEETING, PUMPING AND OTHER WORK INCIDENTAL TO EXCAVATING REQUIRED FOR WORK SHOWN ON DRAWING.
2.	ALL EXCAVATION SHALL BE UNCLASSIFIED AND SHALL INCLUDE EXCAVATION OF ALL MATERIALS ENCOUNTERED.
3.	TRENCH DEPTHS SHALL ALLOW ADEQUATE COVER OVER PIPING. WALL SHALL BE PER OSHA REQUIREMENTS. BOTTOMS SHALL BE INSTRUMENT GRADED IN THE DIRECTION OF SLOPE REQUIRED. EARTH SHALL BE SCOOPED UNDER BOTTOMS OF PIPE HUBS TO PROVIDE A SOLID BEARING FOR PIPE ON UNDISTURBED EARTH. CONCRETE OR OTHER APPROVED SUPPORTS SHALL BE PROVIDED FOR ALL PIPING INSTALLED IN FILLED GROUND.
4.	BACKFILL SHALL BE MADE WITH CLEAN EARTH. FREE FROM ROCKS, FROZEN EARTH, DEBRIS, OR OTHER FOREIGN MATERIALS. BACKFILL SHALL BE DEPOSITED IN UNIFORM LAYERS NOT OVER 6 INCHES THICK. EACH LAYER SHALL BE MECHANICALLY TAMPERED BEFORE NEXT LAYER IS APPLIED.
5.	FOR PLASTIC PIPE, THE MAXIMUM PARTICLE SIZE IN THE SIDE AND INITIAL BACKFILL SHALL BE NOT MORE THAN 1/2" FOR 6"PIPE & SMALLER, 3/4" FOR 8"PIPE & LARGER.
6.	EXCAVATION ADJACENT TO AND UNDER FOOTING AND FOUNDATIONS SHALL BE BACKFILLED SOLIDLY WITH 3000 POUND MINIMUM CONCRETE TO AN ELEVATION LEVEL WITH BOTTOM OF FOOTINGS AND FOUNDATIONS. WHERE EXCAVATION, DISTANT FROM FOOTINGS AND FOUNDATIONS, IS DEEPER THAN THE ANGLE OF REPOSE, BACKFILL SOLIDLY WITH 3000 POUND CONCRETE MINIMUM TO AN ELEVATION LEVEL WITH THE ANGLE OF REPOSE.
7.	ALL EXCAVATED MATERIAL REMAINING AFTER BACKFILLING OPERATION SHALL BE REMOVED FROM SITE.
8.	STREETS, LAWNS, PAVEMENTS, CURBS AND OTHER FINISHED SURFACES DISTURBED OR DAMAGED BY EXCAVATION SHALL BE REPAIRED AND RESTORED TO THEIR ORIGINAL CONDITION, TO THE SATISFACTION OF THE OWNER AND LOCAL AUTHORITIES.



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CE Proj No. 8C25228.00

NEW CONSTRUCTION

34TH STREET
SANDCASTLE PARK
OPERATIONS
BUILDING

BLOCK 3403, LOTS 1 & 2
CITY OF OCEAN CITY
CAPE MAY COUNTY
NEW JERSEY
08226

No.	Description	Date
	PERMIT ISSUE	09.11.2026

PLUMBING NOTES,
LEGEND, SYMBOLS &
ABBREVIATIONS

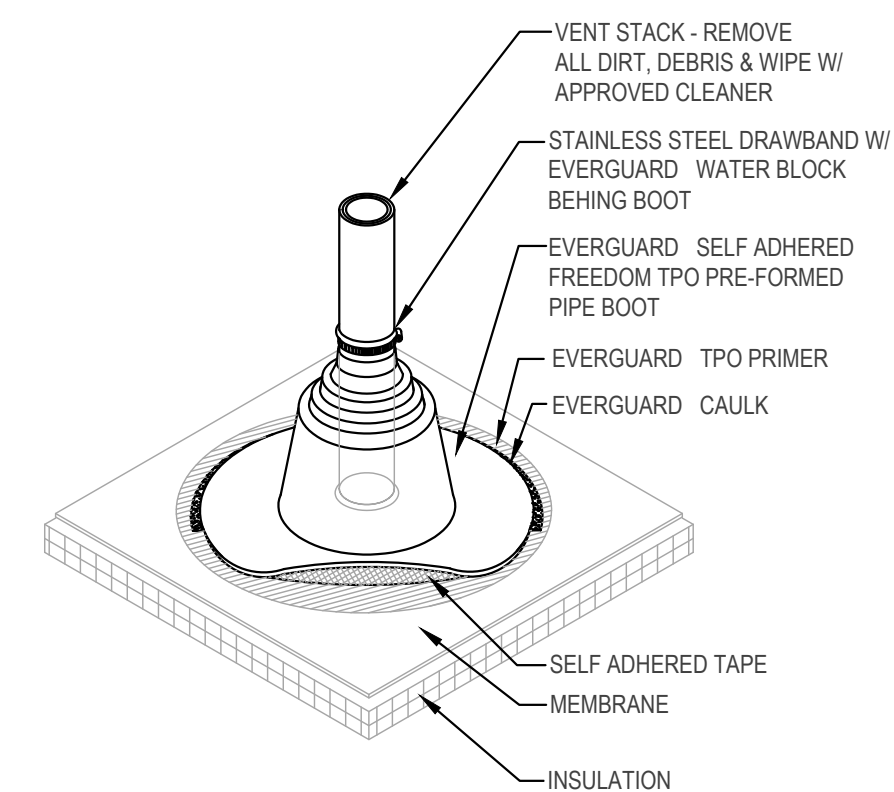
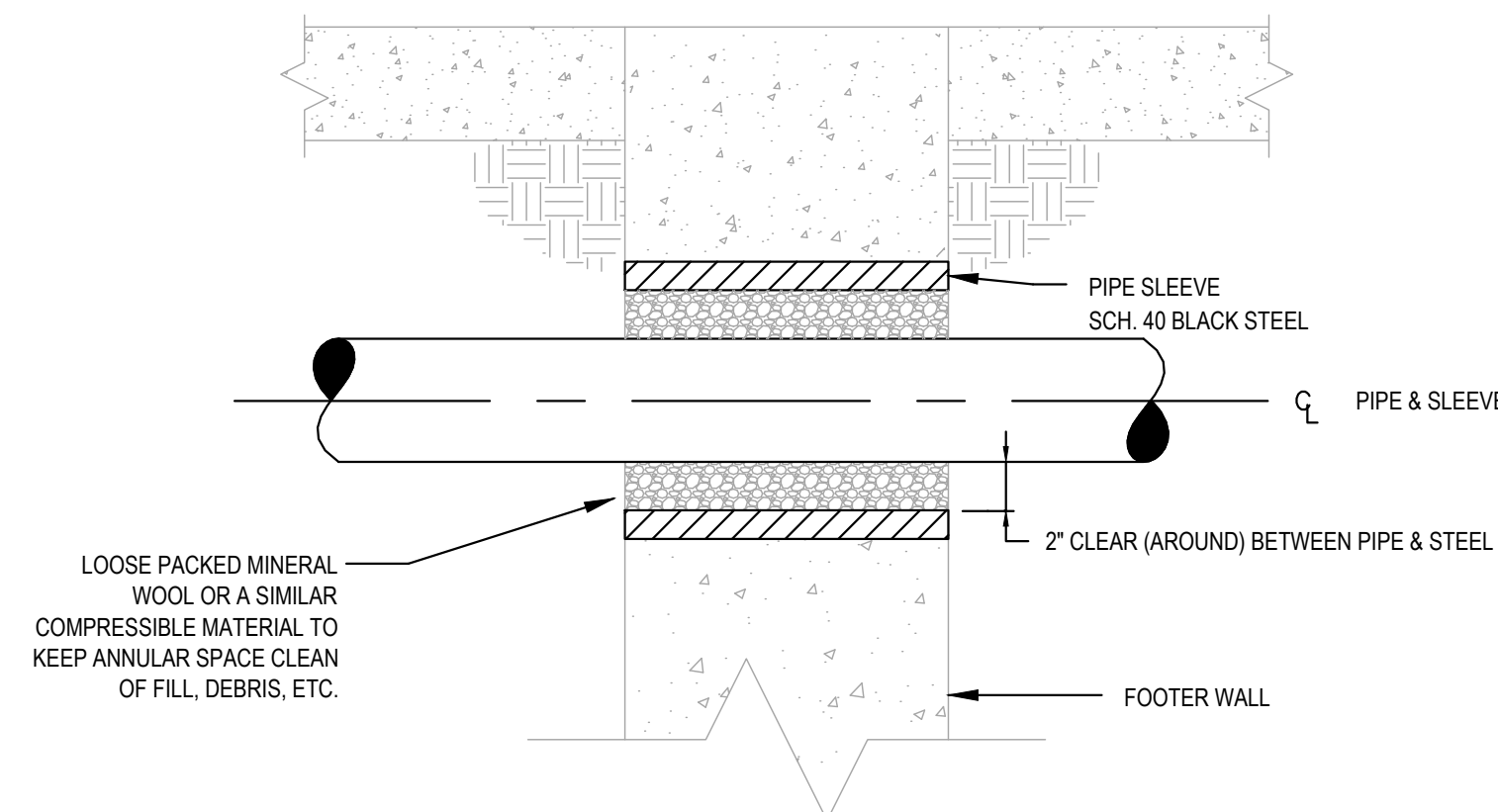
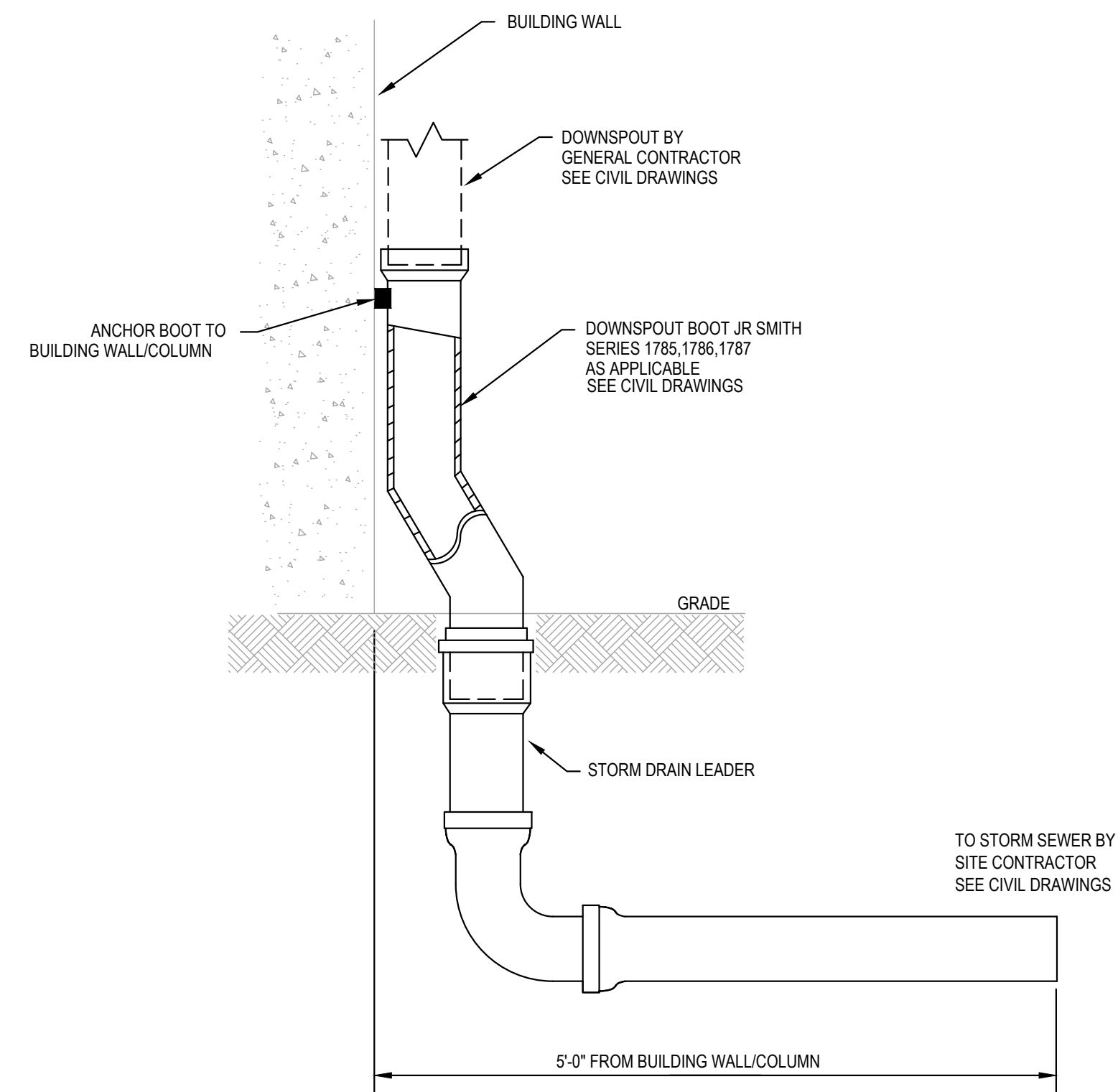
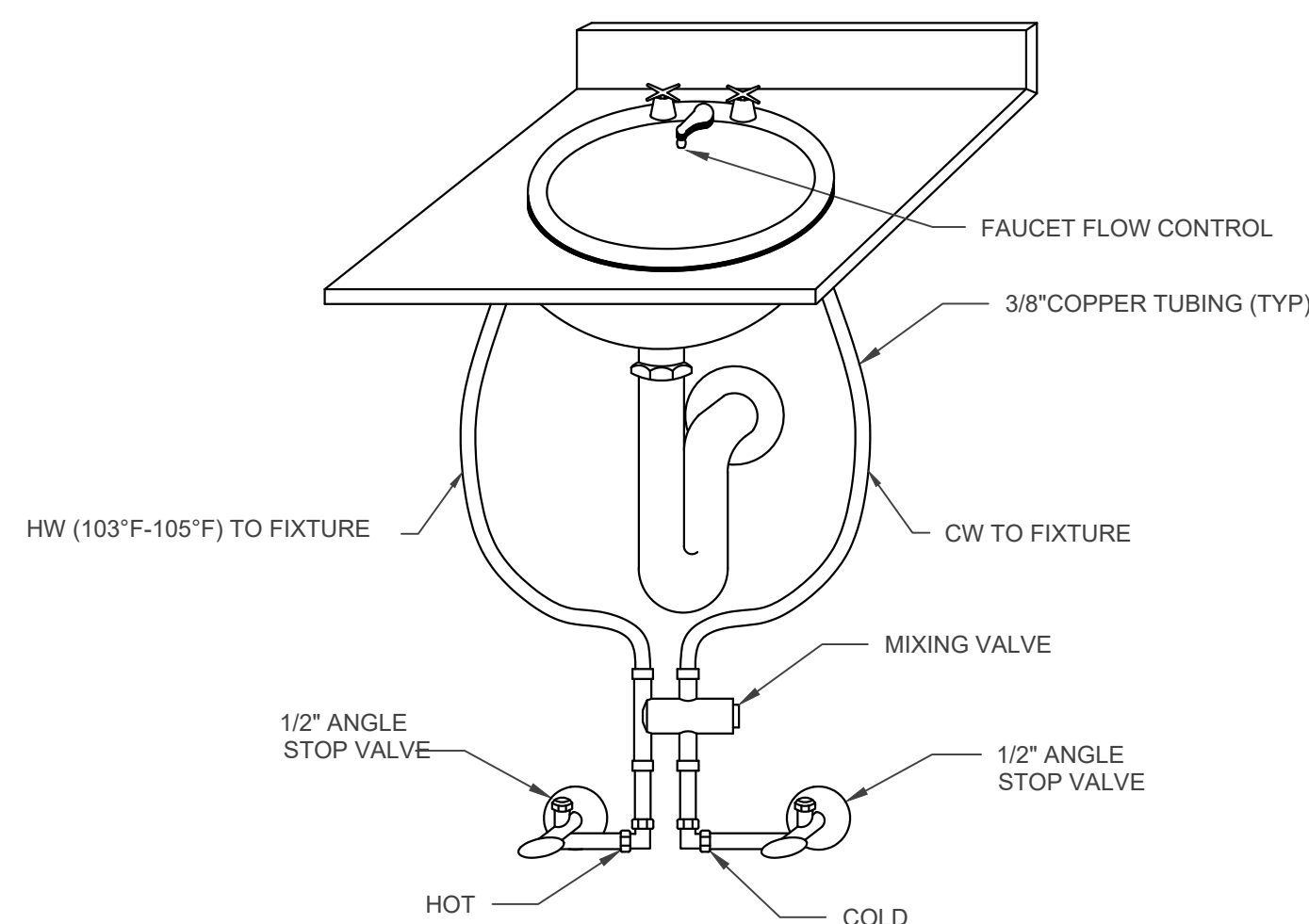
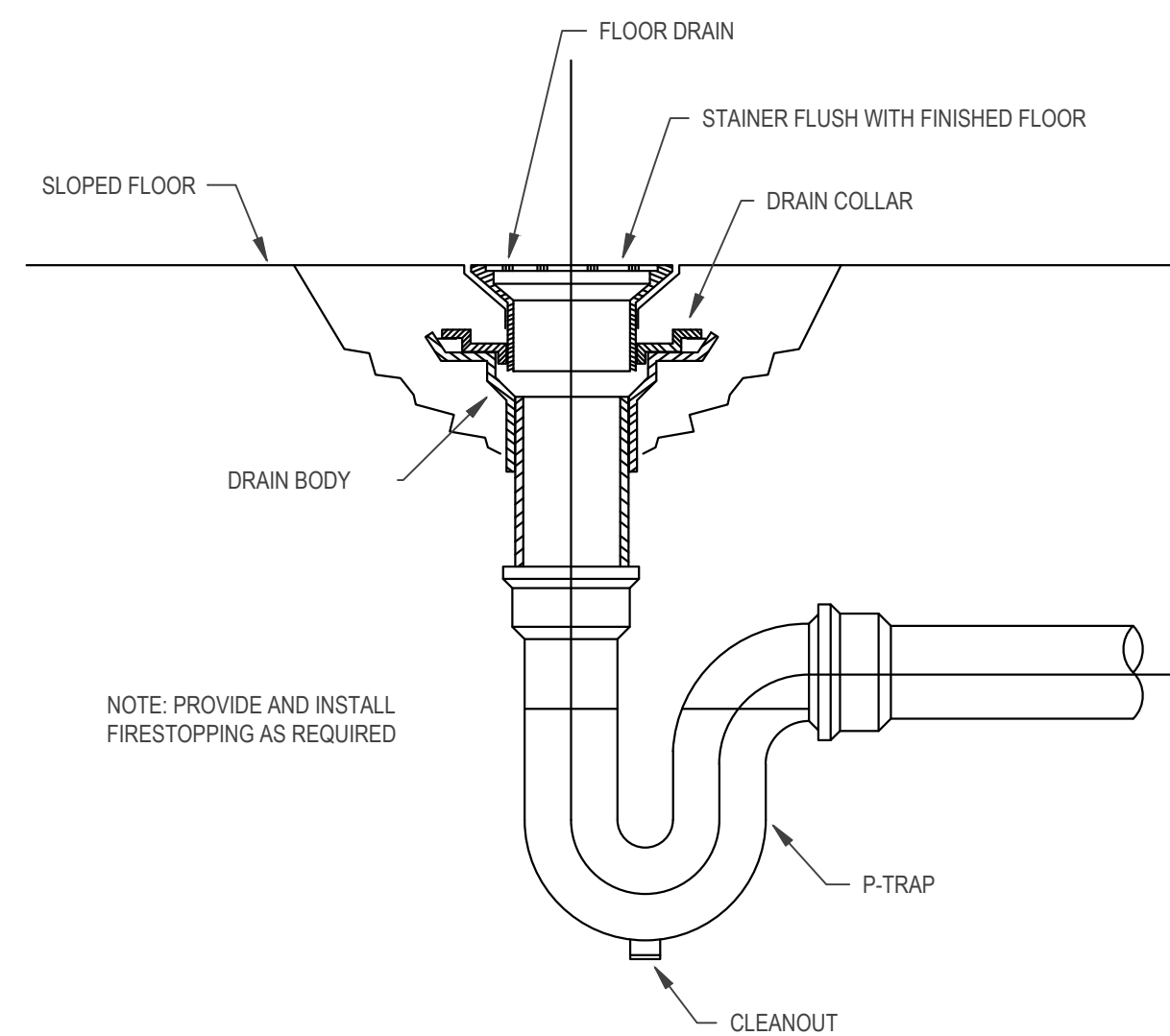
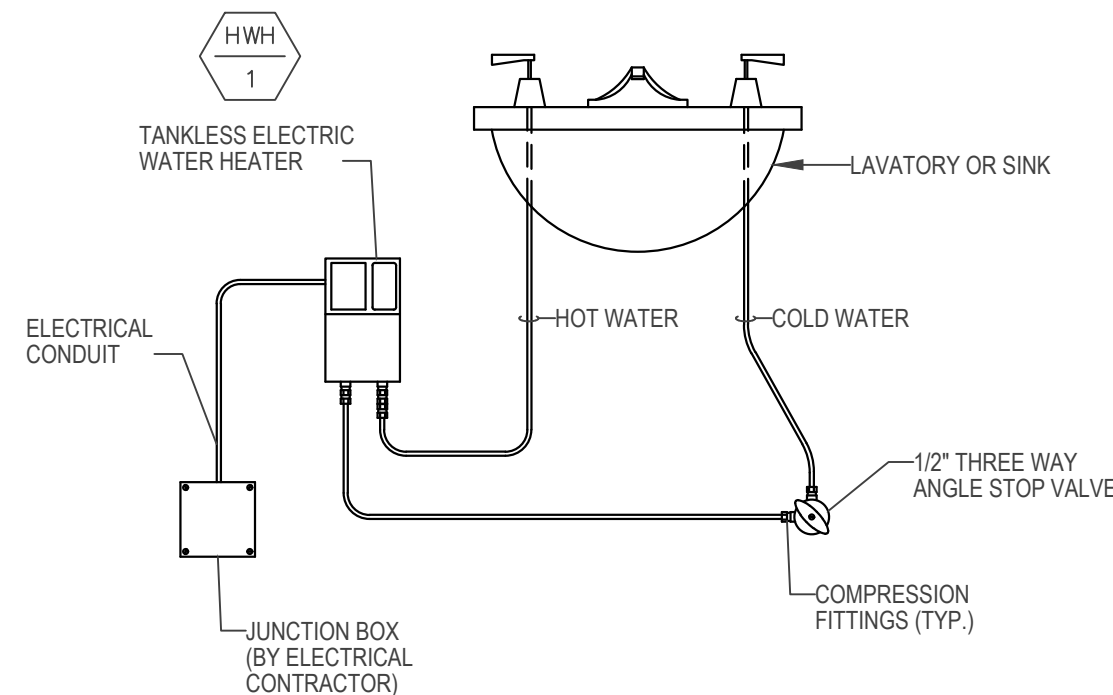
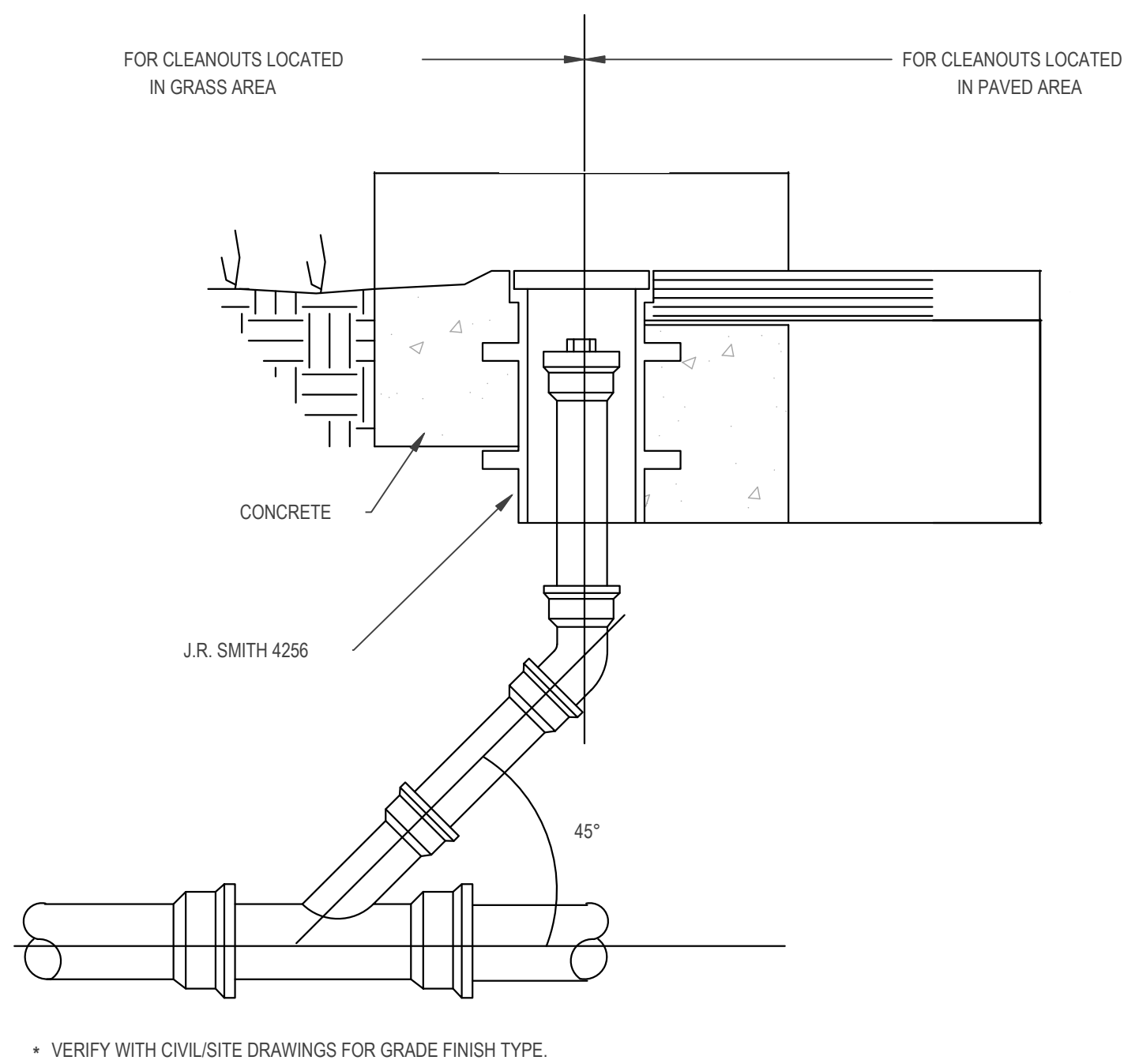
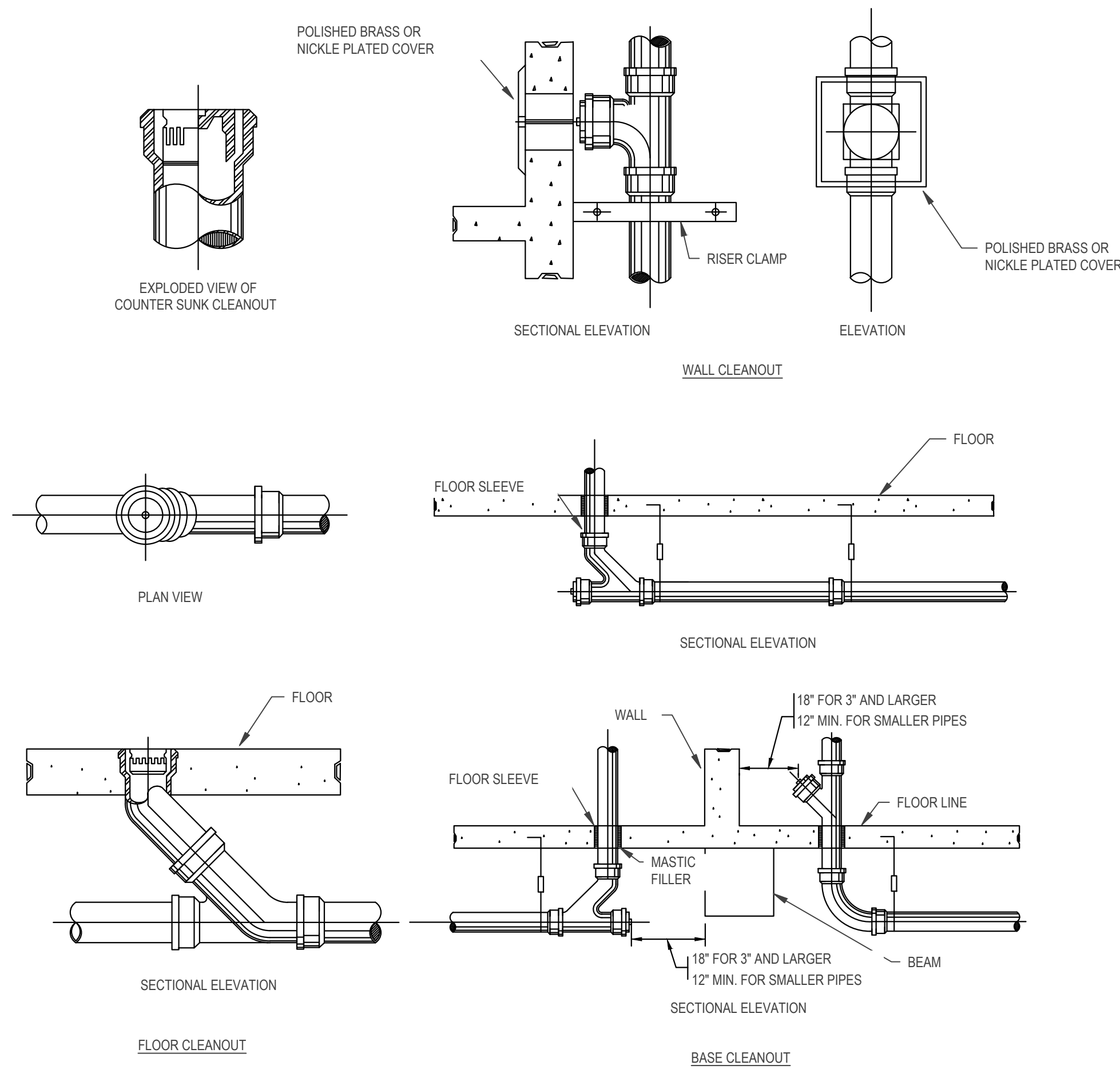
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Date 09.11.2026

P0.00

Comission no. 250350



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PLUMBING DETAILS

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P0.01



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PLUMBING SCHEDULES & RISER DIAGRAMS

Scale AS NOTED
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Date 09.11.2026

P0.02

Comission no. 25035O

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE	BASIS OF DESIGN		CONNECTION SIZE				MOUNT	FAUCET/FLUSHOMETER		REMARKS
		MFGR	MODEL	WASTE	VENT	CW	HW		MFGR	MODEL	
LAV-01	WALL-MOUNTED BATHROOM SINK	KOHLER	K-2084-0	1-1/2"	1-1/4"	1/2"	1/2"	WALL	KOHLER	K-103K36-SANA	ADA COMPLIANT, PROVIDE DRAIN.
WC-01	WATER CLOSET	KOHLER	K-4325-0	3"	1-1/2"	1/2"	1/2"	-	KOHLER	K-7531	ADA COMPLIANT, 1.28 GPF
MR-1	MOP RECEPTOR	ZURN	Z1996.36	3"	1-1/2"	3/4"	3/4"	FLOOR	ZURN	Z841M4	6" VACUUM BREAKER SPOUT, WRIST BLADES, PAIL HOOK, 3/4" HOSE END BRACE.
FD	FLOOR DRAIN	ZURN	#2415B	2"	-	-	-	FLOOR	-	-	6" DIA NICKEL BRONZE STRAINER, WITH PROSET WATERLESS TRAP PRIMER.
NFWH-1	HOSE BIB	J R SMITH	5509QT-R	-	-	1/2"	1/2"	-	-	-	PROVIDE TAMPER RESISTANT COVER

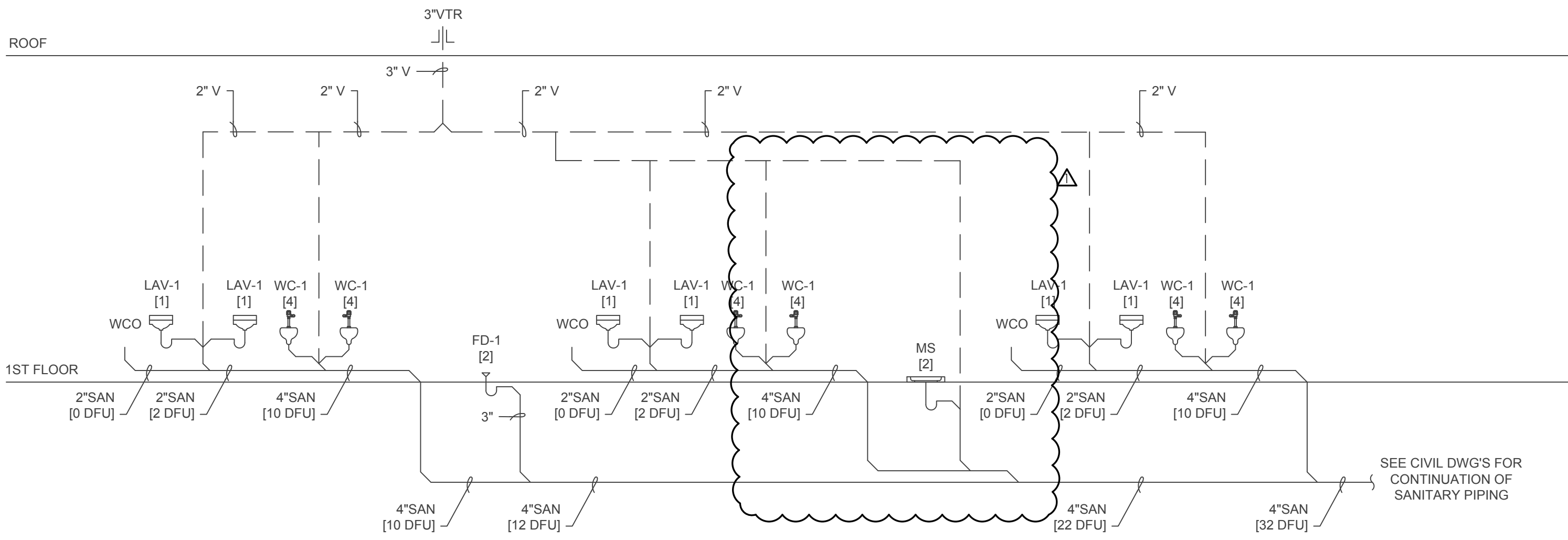
BACKFLOW PREVENTER SCHEDULE

SYMBOL	SERVICE	LOCATION	TYPE	SIZE	BASIS OF DESIGN		REMARKS
					MANUFACTURER	MODEL NUMBER	
BFP-1	MAIN DOMESTIC	CLOSET #107	RPZ	2"	WATTS	LF009	PROVIDE WITH STRAINER, OSY VALVES, AND 909AGF AIR GAP FITTING

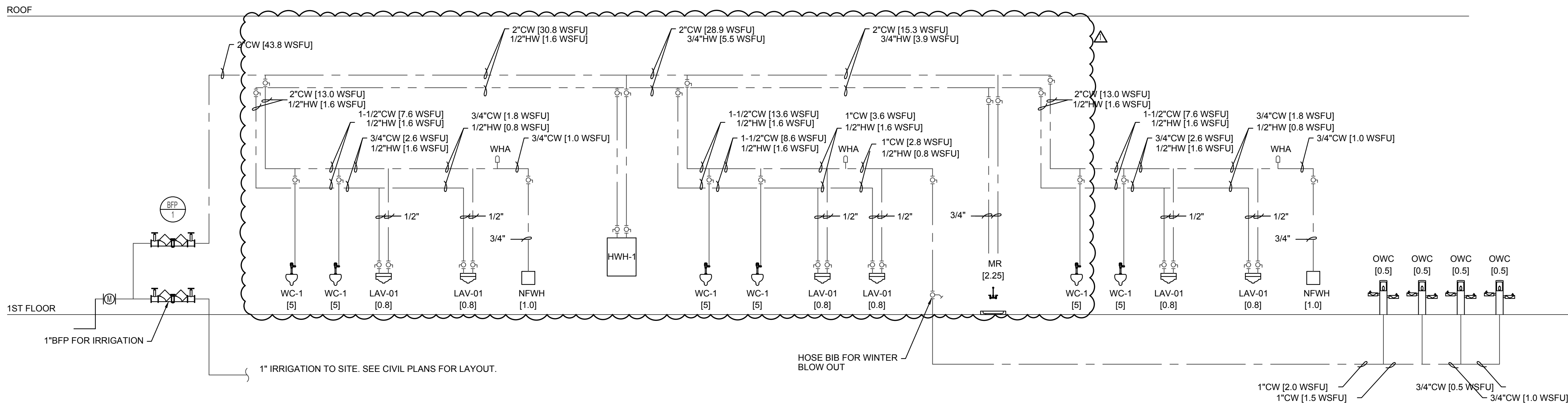
INSTALL BACKFLOW PREVENTERS BETWEEN 12" AND 60" ABOVE FINISHED FLOOR

GAS WATER HEATER SCHEDULE

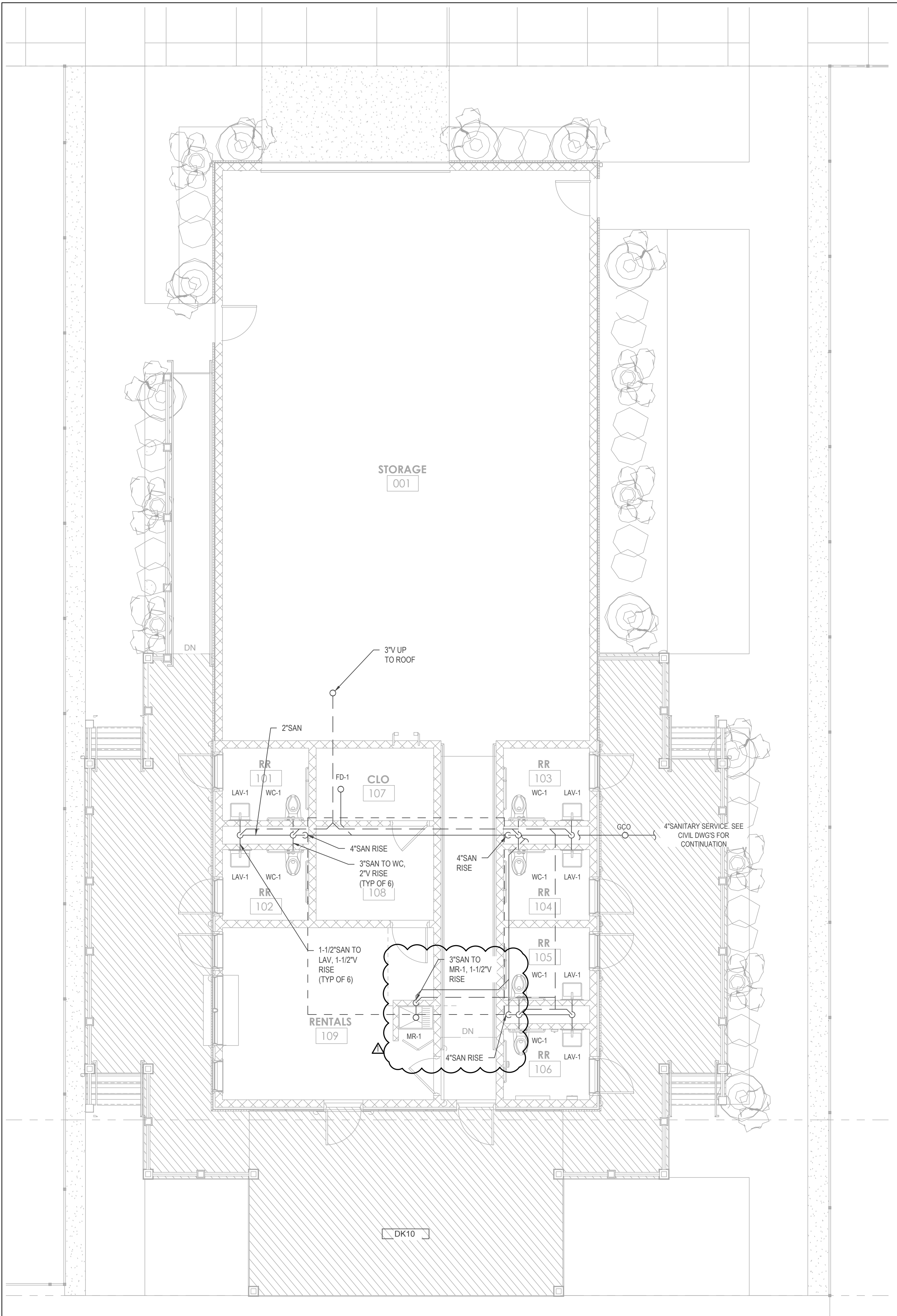
SYMBOL	LOCATION	AREA SERVED	TYPE	CAPACITY (GALLONS)	WATER ENT (°F)	WATER LVG (°F)	OUTPUT (GPM)	V/PH/Hz	AMPS	GAS	BASIS OF DESIGN	
											MANUFACTURER	MODEL NUMBER
HWH-1	BATHROOM	BUILDING	INSTANTANEOUS	-	55	120	11 GPM	120/1/60	10	199MBH	RINNAI	CX1991



1 SANITARY & VENTING RISER DIAGRAM
SCALE: N . T . S .



2 DOMESTIC WATER RISER DIAGRAM
SCALE: N . T . S .



- GENERAL NOTES:
- A. REFER TO PLUMBING LEAD SHEET, P0.00 FOR NOTES THAT PERTAIN TO THE SCOPE OF THIS PROJECT.
 - B. CONTRACTOR SHALL PROVIDE ALL REQUIRED PIPING, VALVES, AND APPURTENANCES TO PROVIDE A COMPLETE WORKING SYSTEM.
 - C. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE ENTIRE SYSTEM WITH ALL BUILDING AND CEILING ELEMENTS INCLUDING, BUT NOT LIMITED TO, PIPING, DUCTWORK, DIFFUSERS, LIGHTING FIXTURES, ETC.
 - D. CONTRACTOR SHALL PROVIDE WATER, SANITARY, AND VENT CONNECTIONS AS REQUIRED TO ALL FIXTURES. ALL REQUIRED PIPING MAY NOT BE SHOWN.
 - E. CONTRACTOR SHALL INSTALL ALL NEW EQUIPMENT IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND SHALL MAINTAIN ALL CLEARANCES (INSTALLATION AND MAINTENANCE) AS NOTED WITHIN THE WRITTEN INSTRUCTIONS.



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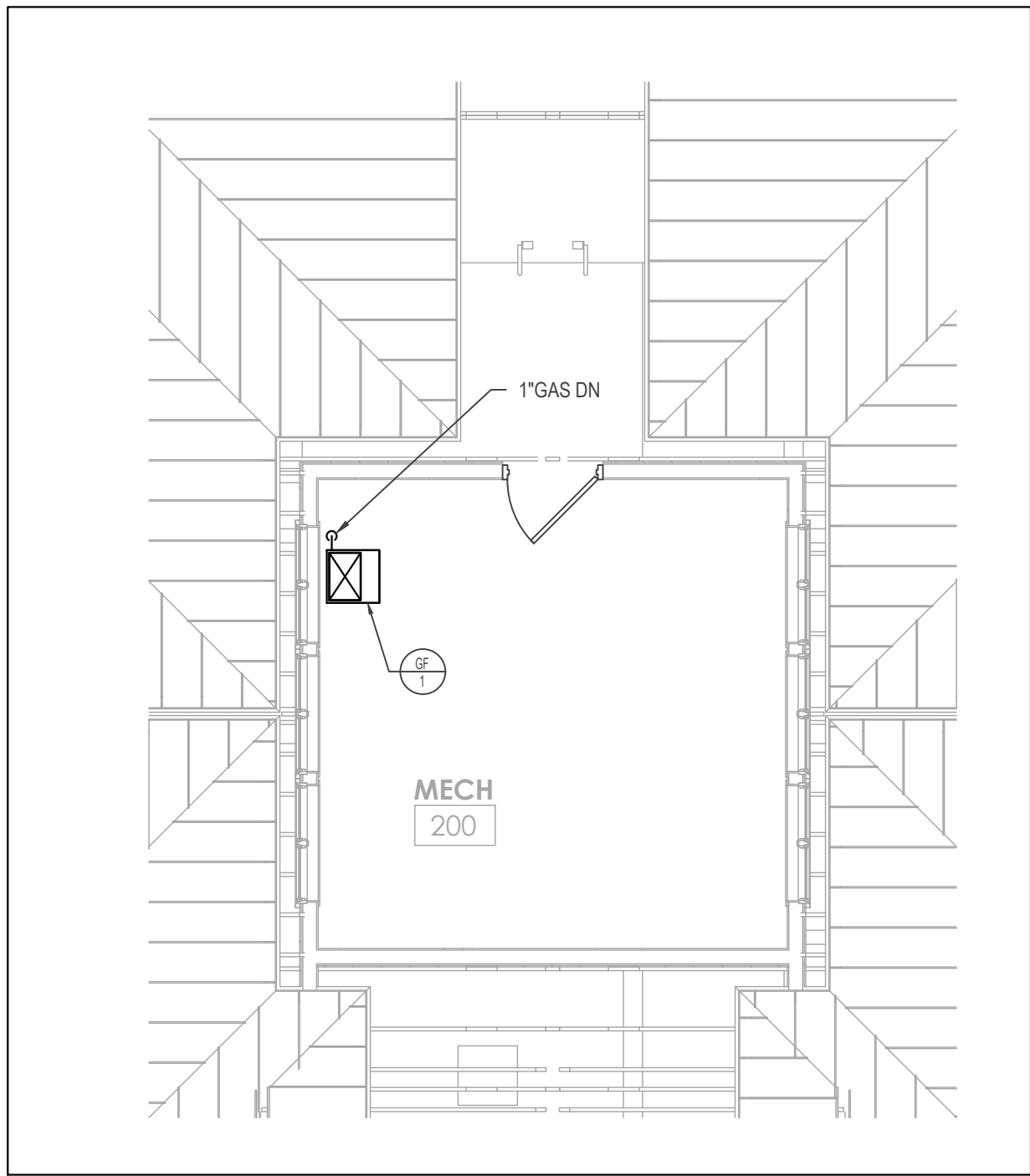
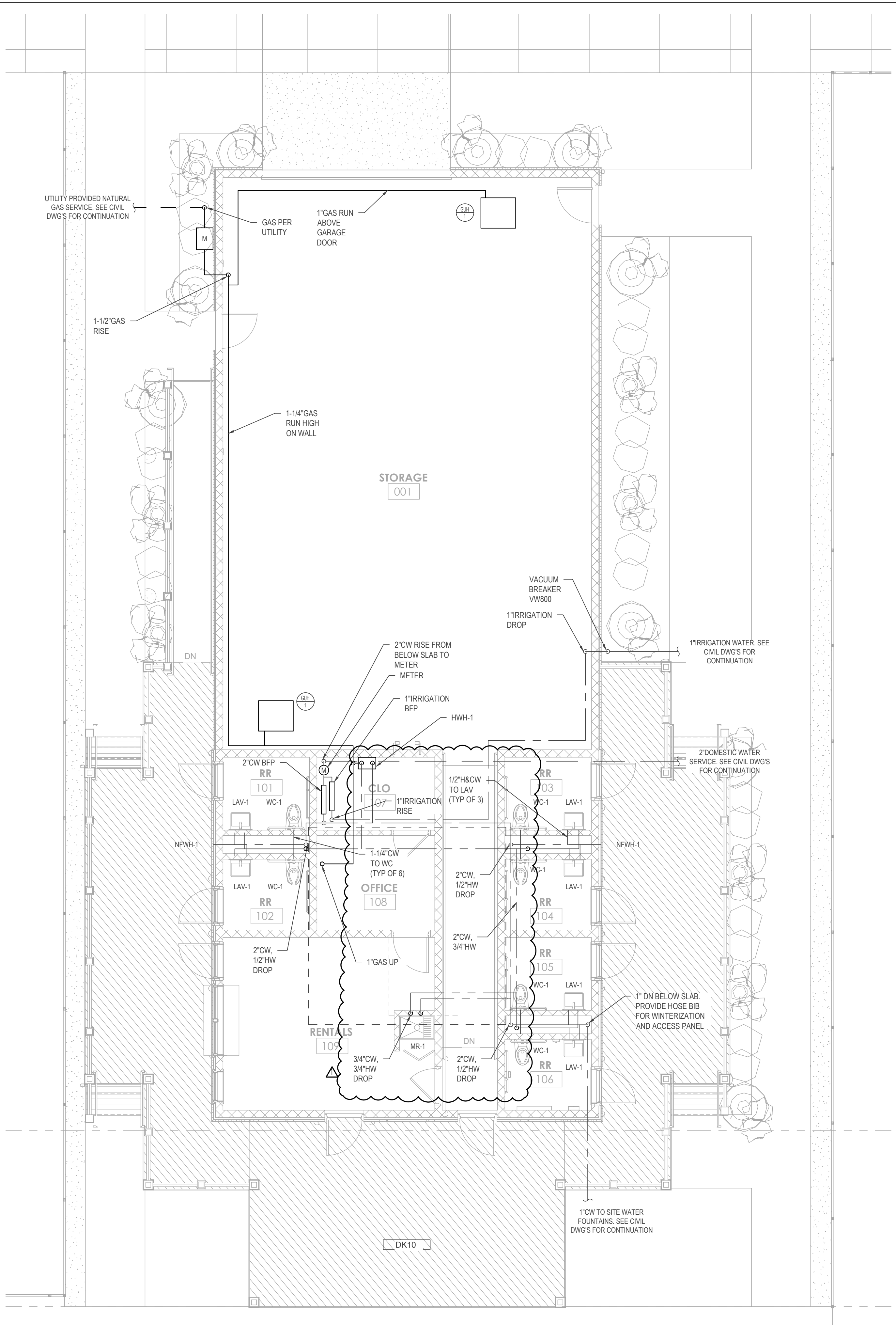
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PLUMBING NEW
WORK SANITARY
PLANS

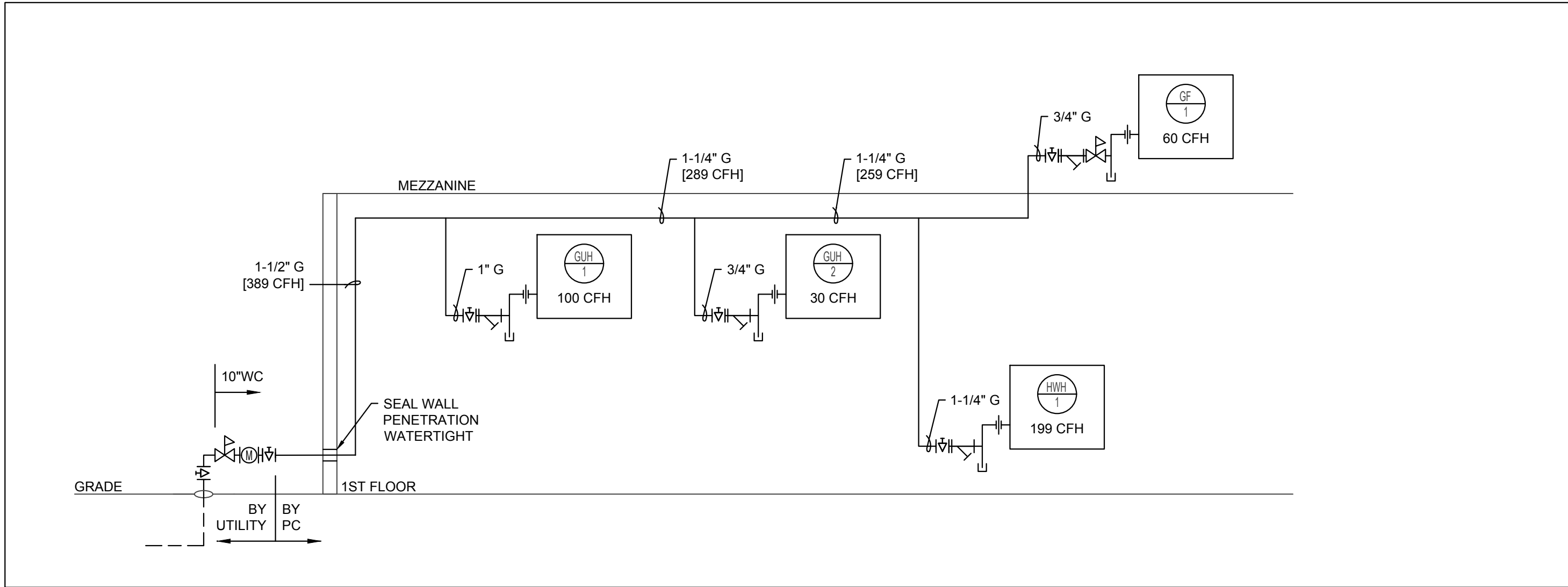
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P1.01

Comission no. 250350



2 PLUMBING MEZZANINE PLAN
P2.01 SCALE: 3/16" = 1'-0"



3 NATURAL GAS RISER DIAGRAM
P2.01 SCALE: N . T . S .

- GENERAL NOTES:
- A. REFER TO PLUMBING LEAD SHEET, P0.00 FOR NOTES THAT PERTAIN TO THE SCOPE OF THIS PROJECT.
 - B. CONTRACTOR SHALL PROVIDE ALL REQUIRED PIPING, VALVES, AND APPURTENANCES TO PROVIDE A COMPLETE WORKING SYSTEM.
 - C. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE ENTIRE SYSTEM WITH ALL BUILDING AND CEILING ELEMENTS INCLUDING, BUT NOT LIMITED TO, PIPING, DUCTWORK, DIFFUSERS, LIGHTING FIXTURES, ETC.
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PLUMBING NEW
WORK DOMESTIC
WATER PLANS

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P2.01

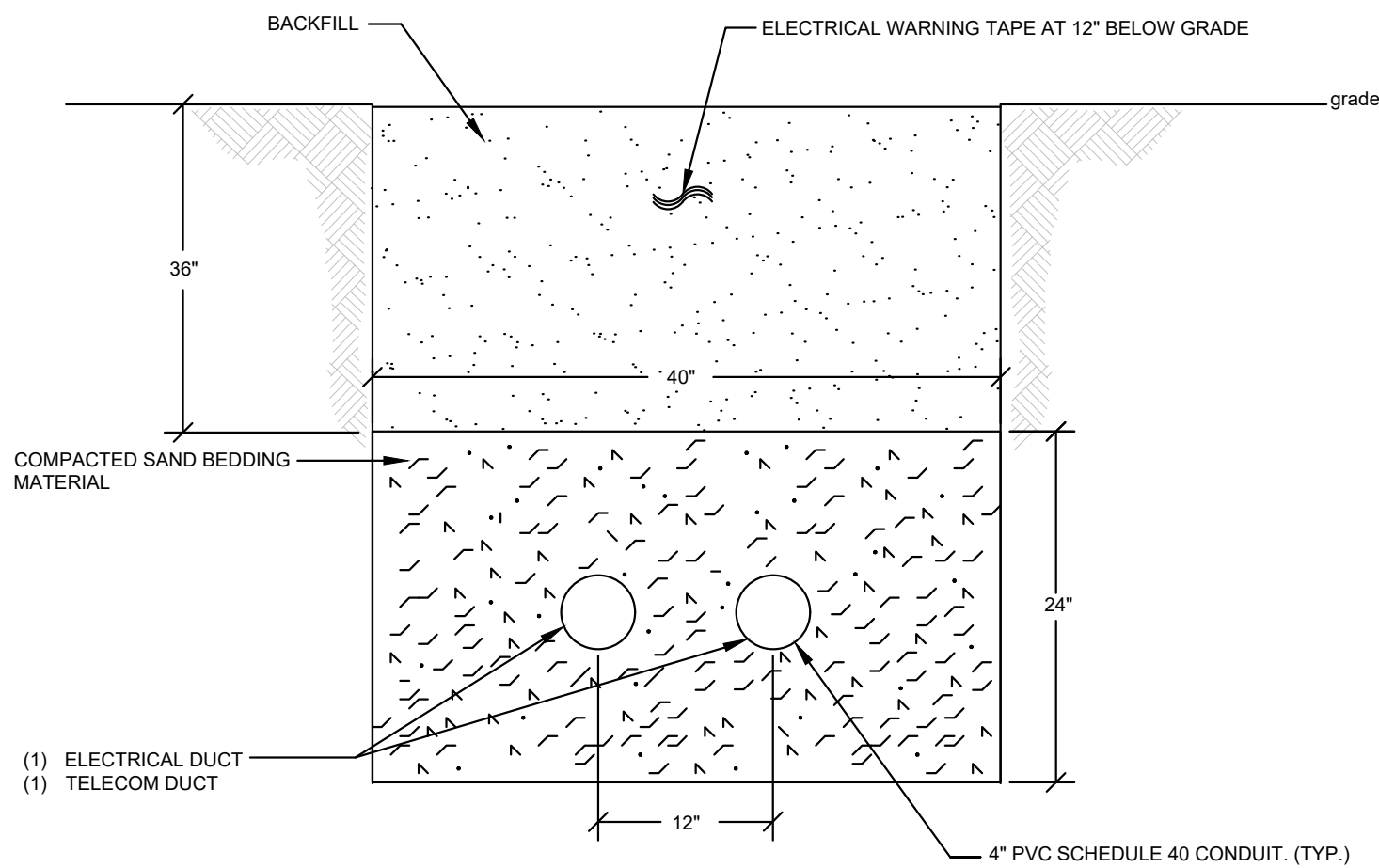
Comission no. 250350

1 PLUMBING FIRST FLOOR DOMESTIC WATER PLAN – GARAGE
P2.01 SCALE: 3/16" = 1'-0"

ELECTRICAL SHEET SPECIFICATIONS

- GENERAL NOTES
- A. CONTRACT PERFORMANCE
1. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE 2020 NATIONAL ELECTRIC CODE AS ADOPTED BY THE UNIFORM CONSTRUCTION CODE - STATE OF NEW JERSEY AND ANY OTHER PARTY HAVING JURISDICTION.
2. EXECUTE THE WORK IN THE BEST AND MOST THOROUGH MANNER & TO THE SATISFACTION OF THE CONSULTING ENGINEER, WHO WILL JOINTLY INTERPRET THE MEANING OF THE DRAWINGS AND SPECIFICATIONS AND SHALL HAVE THE POWER TO RECTIFY ANY WORK AND MATERIALS WHICH, IN THEIR JUDGMENT, ARE NOT IN FULL ACCORDANCE THEREWITH.
3. 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.
4. 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.
5. THE DRAWINGS SHOW 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.
6. THE CONTRACTOR COVENANTS AND AGREES THAT HE AND HIS SUBCONTRACTORS AND HIS AND THEIR AGENTS, SERVANTS AND EMPLOYEES WILL PROVIDE AND MAINTAIN A SAFE PLACE TO WORK AND THAT HE AND 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, HIS SUBCONTRACTORS AND HIS AND THEIR AGENTS 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.
7. 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 FAILURE OR ALLEGED FAILURE ON THE PART OF THE CONTRACTOR, HIS SUBCONTRACTORS AND HIS AND THEIR AGENTS 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.
8. 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 DISPUTE IN ACCORDANCE WITH THE RULES OF SUCH ASSOCIATION FOR CONSTRUCTION INDUSTRY DESIGNS. ALL SUBCONTRACTORS UNLESS THEY 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 HIS 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.
9. 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.
10. OBTAIN ALL NECESSARY PERMITS AND APPROVAL FROM GOVERNING AUTHORITIES AND FILE ALL NECESSARY FEES. PAY ALL INSPECTION FEES.
11. COORDINATE SCHEDULING OF ALL WORK TO BE PERFORMED WITH WORK OF HIS AGENT AND INCLUDE ALL NECESSARY PREMIUM TIME REQUIRED FOR SHUTDOWNS, WORK IN OCCUPIED AREAS, ETC.
12. 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.
13. 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 ARCHITECT AND 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 GIVEN BEFORE SUBMITTAL OF A PROPOSAL.
14. COORDINATE ALL WORK WITH OTHER TRADES TO ENSURE INSTALLATION IS MADE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
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 YEAR FROM THE DATE WHEN THE OWNER HAS ISSUED A "CERTIFICATE OF SUBSTANTIAL COMPLETION".
- B. 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 SWITCH, SPECIAL RECEPTACLES, ETC., ALL SPECIAL EQUIPMENT, SUCH AS FANS, AIR CONDITION UNITS, COPIERS, ETC., WILL BE FURNISHED BY OTHERS (U.O.N.) WHERE EQUIPMENT REQUIRES PERMANENT CONNECTIONS SHALL BE PROVIDED WITH APPROPRIATE DISCONNECT MEANS.
2. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WORK SHOWN IN 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 BRANCH CIRCUIT 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 PULL BOX. ALL PULL BOXES SHALL BE LABELED FOR THEIR INTENDED USE. DECALS SHALL BE PROVIDED TO INDICATE VOLTAGE LEVEL. FOR 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 RACEWAYS, PULL BOXES FOR CONDUIT CONDUIT RACEWAYS WILL BE PROVIDED IN STRAIGHT LINES ONLY. LABEL EACH RACEWAY (PER THE TECHNICAL DEPT. REQUIREMENTS) EVERY 50 FEET HORIZONTALLY AND ON EACH FLOOR VERTICALLY. SUBMIT LABELING SYSTEM FOR REVIEW.
5. 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 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, BUGHANOR, OR AS APPROVED, SHALL BE USED.
6. EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL LIGHTING FIXTURES, SWITCHES, WALL OUTLETS, ETC., SHALL BE IN ACCORDANCE WITH ARCHITECTURAL DRAWINGS.
7. NO ELECTRICAL CONNECTIONS SHALL BE MADE TO, OR WORK PERFORMED ON, ENERGIZED EQUIPMENT.
8. FINAL CONNECTIONS TO EQUIPMENT SHALL BE MADE ACCORDING TO VENDOR APPROVED SHOP DRAWINGS.
9. VERIFY ELECTRICAL REQUIREMENTS OF ALL NEW EQUIPMENT TO BE USED. INCLUDE 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.
10. COORDINATE ALL LOCATIONS AND HEIGHTS OF STUB-UPS AND OUTLETS IN FIELD WITH VENDORS AND/OR FURNITURE MANUFACTURERS PRIOR TO SHOP DRAWING. ALL RECEPTACLES ARE TO BE ACCESSIBLE.
11. ALL ELECTRICAL SHALL BE ACCESSIBLE BELOW COUNTERS OR BEHIND EQUIPMENT. CONTRACTOR SHALL COORDINATE EXACT LOCATION OF EQUIPMENT RECEPTACLES WITH EQUIPMENT MANUFACTURERS' REQUIREMENTS AND THE LOCAL INSPECTOR.
12. ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECTS FOR ALL EQUIPMENT PER CODE AND SHALL COORDINATE ALL DISCONNECT SWITCH REQUIREMENTS AND LOCATION WITH THE ELECTRICAL INSPECTOR, VENDORS APPROVED SHOP DRAWING AND FINAL EQUIPMENT LOCATIONS.
13. 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%).
14. 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 THREE CIRCUITS COMBINED IN A RACEWAY TO THE PANELBOARD, UNLESS OTHERWISE NOTED. ALL CONDUCTORS PER PANEL BE DERATED PER ELECTRICAL CODE (LATEST VERSION) COMBINING OF MULTIPLE HOMERUNS (MORE THAN THREE) IN A SING CONDUIT SHALL NOT BE PERMITTED.
15. ALL CONDUIT SHOWN FOR INDOOR WORK SHALL BE EMT (1/2" MINIMUM) WITH SET-SCREW TYPE COUPLINGS UNLESS OTHERWISE NOTED.
16. PROVIDED IMC CONDUIT WITH THREADED COUPLINGS WHERE REQUIRED BY CODE.
17. TYPE MC CABLE MAY BE UTILIZED FOR BRANCH LIGHTING AND RECEPTACLE CIRCUITRY, WHERE PERMITTED BY CODE AND PROVIDED THAT:
- a. IT IS NOT LOCATED WITHIN VIEW, ALL EXPOSED RACEWAYS MUST BE IN CONDUIT.
- b. CONTAINS AN INSULATED GROUND WIRE.
- c. CONDUIT IS RUN TO THE FIRST DEVICE DOWNLINE OF THE PANEL, (I.E. RECEPTACLE, LIGHT FIXTURE, ETC.).
18. 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.

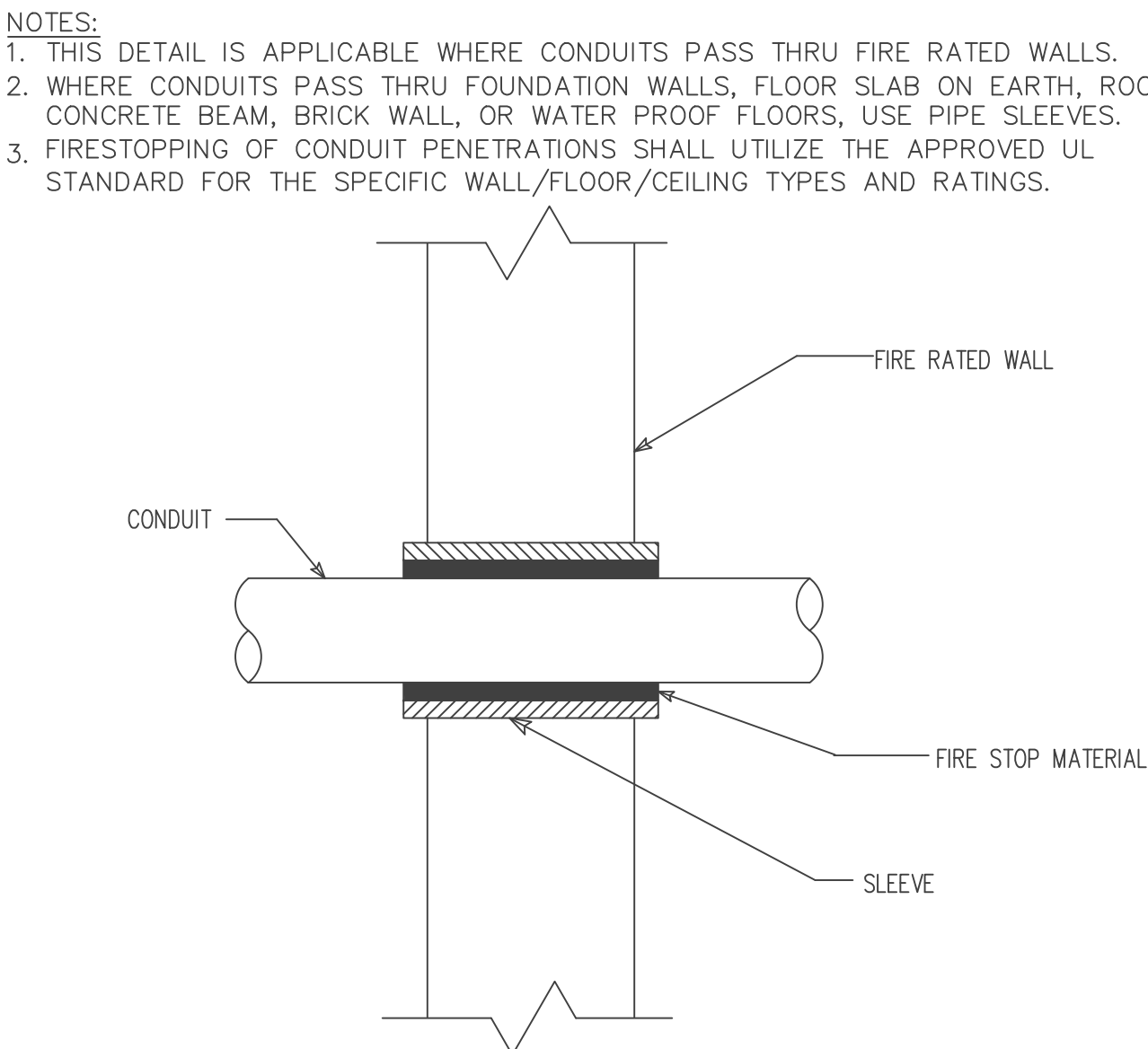
19. WHERE CONDUITS, CABLE TRAY OR OTHER ELECTRICAL EQUIPMENT PENETRATE FIRE OR SMOKE RATED WALLS, PARTITIONS, FLOOR SLABS, ETC., THE SPACE BETWEEN THE SLEEVE OR CUTOUT AND THE ELECTRICAL EQUIPMENT SHALL BE CALLED WITH A UL LISTED, INTUMESCENT TYPE, APPROVED FIRESTOP SYSTEM. SPACE BETWEEN THE SLEEVE OR CUTOUT AND THE ELECTRICAL EQUIPMENT SHALL BE SIZED IN ACCORDANCE WITH THE MANUFACTURERS REQUIREMENTS FOR CONDUIT SIZE AND DAMPING 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.
20. 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.
21. 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 ARCHITECTS AND/OR ENGINEERS 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 ARCHITECTS AND/OR ENGINEERS 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 THIS SECTION RELIEVES ARCHITECTS AND/OR ENGINEERS 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 IN THE FABRICATION SHOP OR IN THE FIELD UNTIL THE ARCHITECT AND/OR ENGINEERS 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. UPON 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 THE JOB SITE FOR INSPECTION.
3. UPON COMPLETION OF 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 POLE 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 CONDUITS FOR LIGHTING AND POWER SYSTEMS SHALL BE 1/2" (MINIMUM).
4. 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 END WITH A LENGTH OF BONDING JUMPER IN THE EXPANSION JOINT EQUAL TO AT LEAST THREE TIMES THE NORMAL WIDTH OF THE JOINT.
5. ALL 1/2" OR 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 1/2" MINIMUM ANNU WIRE FOR ITS ENTIRE LENGTH.
6. 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.
7. INSULATING BUSHING OR INSULATING THROATS SHALL BE INSTALLED ON ALL FITTINGS.
- F. 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 HINGES AND LOCKS TO BE PROVIDED WITH A PULL BOX. ALL PULL BOXES (DOOR AND LOCK) SHALL BE PROVIDED WITH OR SCREWS ON THE NON-HINGED SIDE OF THE 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 QUICKMAKE, 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 3 INCHES X 6 INCHES WITH METAL FRAME AND LEXAN FACE SHALL BE PROVIDED ON THE INSIDE OF THE DOOR OF EACH CABINET. THE DIRECTORY SHALL LIST THE LOAD, DISCONNECTS SHALL BE IDENTIFIED ON ARCHITECTURAL DRAWINGS TO INDICATE ROOM NAMES AND NUMBERS OF ALL EQUIPMENTS SERVED, (E.G. I RECEIPT: ROOMS 202, 203, 207). UPDATE PANEL DIRECTORY OF ALL EXISTING.
5. POWER, LIGHTING AND UTILITY PANELS FOR 120/208 VOLTS 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 AS INDICATED ON THE DRAWINGS.
6. PANELBOARDS SHALL BE EQUIPPED WITH 200% SOLID NEUTRAL BARS AND CONTAIN THE NUMBER OF CLOSURE CHAMBERS AND BUSSED 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 PANELS AS REQUIRED TO MEET THE SCHEDULES OR CIRCUIT DESIGN INTENT.
8. GUTTER SPACE SHALL BE INCREASED WHEN CONTAINING FEEDER PAYS.
9. PROVIDE WIRE TROUGHS WHERE ACCESS TO THE FLOOR SYSTEM IS REQUIRED.
10. WHERE SPACE LIMITATIONS REQUIRED 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 SHUNT TRIP MAIN CIRCUIT BREAKERS FOR ALL PANELS TO BE CONTROLLED BY BREAKGLASS STATIONS, ANSL SYSTEMS/IN KITCHENS OR SERVERIES ETC.
- G. FUSES
1. ALL FUSES SHALL BE OF THE SAME MANUFACTURER, BUSSMAN, OR AS APPROVED, AND SHALL BE INSTALLED, AS REQUIRED, IN ALL CUTOUTS, PANES AND SAFETY SWITCHES.
2. UNLESS OTHERWISE NOTED, FUSES SHALL BE BUSSMAN TYPE LPN, LPS OR KRP-C.
- H. SECONDARY TRANSFORMERS (NOT ALREADY SPECIFIED IN PLAN)
1. UNLESS NOTED OTHERWISE PROVIDE DRY TYPE 100% NON-LEAK, NON-SINUSOIDAL TRANSFORMERS OF QUANTITY AND KVA RATING AS SHOWN ON DOCUMENTS. 30, 450 VOLT, 208/120V/200/240V/277V/480V/600V/720V/1200V/1500V/2400V/3000V/3600V/4800V/6000V/7200V/8400V/9600V/10800V/12000V/14400V/16800V/19200V/21600V/24000V/27000V/30000V/32400V/36000V/39600V/43200V/46800V/50400V/54000V/57600V/61200V/64800V/68400V/72000V/75600V/79200V/82800V/86400V/90000V/93600V/97200V/100800V/104400V/108000V/111600V/115200V/118800V/122400V/126000V/129600V/133200V/136800V/140400V/144000V/147600V/151200V/154800V/158400V/162000V/165600V/169200V/172800V/176400V/180000V/183600V/187200V/190800V/194400V/198000V/201600V/205200V/208800V/212400V/216000V/219600V/223200V/226800V/230400V/234000V/237600V/241200V/244800V/248400V/252000V/255600V/259200V/262800V/266400V/270000V/273600V/277200V/280800V/284400V/288000V/291600V/295200V/298800V/302400V/306000V/309600V/313200V/316800V/320400V/324000V/327600V/331200V/334800V/338400V/342000V/345600V/349200V/352800V/356400V/360000V/363600V/367200V/370800V/374400V/378000V/381600V/385200V/388800V/392400V/396000V/399600V/403200V/406800V/410400V/414000V/417600V/421200V/424800V/428400V/432000V/435600V/439200V/442800V/446400V/450000V/453600V/457200V/460800V/464400V/468000V/471600V/475200V/478800V/482400V/486000V/489600V/493200V/496800V/500400V/504000V/507600V/511200V/514800V/518400V/522000V/525600V/529200V/532800V/536400V/540000V/543600V/547200V/550800V/554400V/558000V/561600V/565200V/568800V/572400V/576000V/579600V/583200V/586800V/590400V/594000V/597600V/601200V/604800V/608400V/612000V/615600V/619200V/622800V/626400V/630000V/633600V/637200V/640800V/644400V/648000V/651600V/655200V/658800V/662400V/666000V/669600V/673200V/676800V/680400V/684000V/687600V/691200V/694800V/698400V/702000V/705600V/709200V/712800V/716400V/720000V/723600V/727200V/730800V/734400V/738000V/741600V/745200V/748800V/752400V/756000V/759600V/763200V/766800V/770400V/774000V/777600V/781200V/784800V/788400V/792000V/795600V/799200V/802800V/806400V/810000V/813600V/817200V/820800V/824400V/828000V/831600V/835200V/838800V/842400V/846000V/849600V/853200V/856800V/860400V/864000V/867600V/871200V/874800V/878400V/882000V/885600V/889200V/892800V/896400V/900000V/903600V/907200V/910800V/914400V/918000V/921600V/925200V/928800V/932400V/936000V/939600V/943200V/946800V/950400V/954000V/957600V/961200V/964800V/968400V/972000V/975600V/979200V/982800V/986400V/990000V/993600V/997200V/1000800V/1004400V/1008000V/1011600V/1015200V/1018800V/1022400V/1026000V/1029600V/1033200V/1036800V/1040400V/1044000V/1047600V/1051200V/1054800V/1058400V/1062000V/1065600V/1069200V/1072800V/1076400V/1080000V/1083600V/1087200V/1090800V/1094400V/1098000V/1101600V/1105200V/1108800V/1112400V/1116000V/1119600V/1123200V/1126800V/1130400V/1134000V/1137600V/1141200V/1144800V/1148400V/1152000V/1155600V/1159200V/1162800V/1166400V/1170000V/1173600V/1177200V/1180800V/1184400V/1188000V/1191600V/1195200V/1198800V/1202400V/1206000V/1209600V/1213200V/1216800V/1220400V/1224000V/1227600V/1231200V/1234800V/1238400V/1242000V/1245600V/1249200V/1252800V/1256400V/1260000V/1263600V/1267200V/1270800V/1274400V/1278000V/1281600V/1285200V/1288800V/1292400V/1296000V/1299600V/1303200V/1306800V/1310400V/1314000V/1317600V/1321200V/1324800V/1328400V/1332000V/1335600V/1339200V/1342800V/1346400V/1350000V/1353600V/1357200V/1360800V/1364400V/1368000V/1371600V/1375200V/1378800V/1382400V/1386000V/1389600V/1393200V/1396800V/1400400V/1404000V/1407600V/1411200V/1414800V/1418400V/1422000V/1425600V/1429200V/1432800V/1436400V/1440000V/1443600V/1447200V/1450800V/1454400V/1458000V/1461600V/1465200V/1468800V/1472400V/1476000V/1479600V/1483200V/1486800V/1490400V/1494000V/1497600V/1501200V/1504800V/1508400V/1512000V/1515600V/1519200V/1522800V/1526400V/1530000V/1533600V/1537200V/1540800V/1544400V/1548000V/1551600V/1555200V/1558800V/1562400V/1566000V/1569600V/1573200V/1576800V/1580400V/1584000V/1587600V/1591200V/1594800V/1598400V/1602000V/1605600V/1609200V/1612800V/1616400V/1620000V/1623600V/1627200V/1630800V/1634400V/1638000V/1641600V/1645200V/1648800V/1652400V/1656000V/1659600V/1663200V/1666800V/1670400V/1674000V/1677600V/1681200V/1684800V/1688400V/1692000V/1695600V/1699200V/1702800V/1706400V/1710000V/1713600V/1717200V/1720800V/1724400V/1728000V/1731600V/1735200V/1738800V/1742400V/1746000V/1749600V/1753200V/1756800V/1760400V/1764000V/1767600V/1771200V/1774800V/1778400V/1782000V/1785600V/1789200V/1792800V/1796400V/1800000V/1803600V/1807200V/1810800V/1814400V/1818000V/1821600V/1825200V/1828800V/1832400V/1836000V/1839600V/1843200V/1846800V/1850400V/1854000V/1857600V/1861200V/1864800V/1868400V/1872000V/1875600V/1879200V/1882800V/1886400V/1890000V/1893600V/1897200V/1900800V/1904400V/1908000V/1911600V/1915200V/1918800V/1922400V/1926000V/1929600V/1933200V/1936800V/1940400V/1944000V/1947600V/1951200V/1954800V/1958400V/1962000V/1965600V/1969200V/1972800V/1976400V/1980000V/1983600V/1987200V/1990800V/1994400V/1998000V/2001600V/2005200V/2008800V/2012400V/2016000V/2019600V/2023200V/2026800V/2030400V/2034000V/2037600V/2041200V/2044800V/2048400V/2052000V/2055600V/2059200V/2062800V/2066400V/2070000V/2073600V/2077200V/208080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EO.01

208V ELECTRIC/TELECOM SERVICE DUCT BANK DETAIL

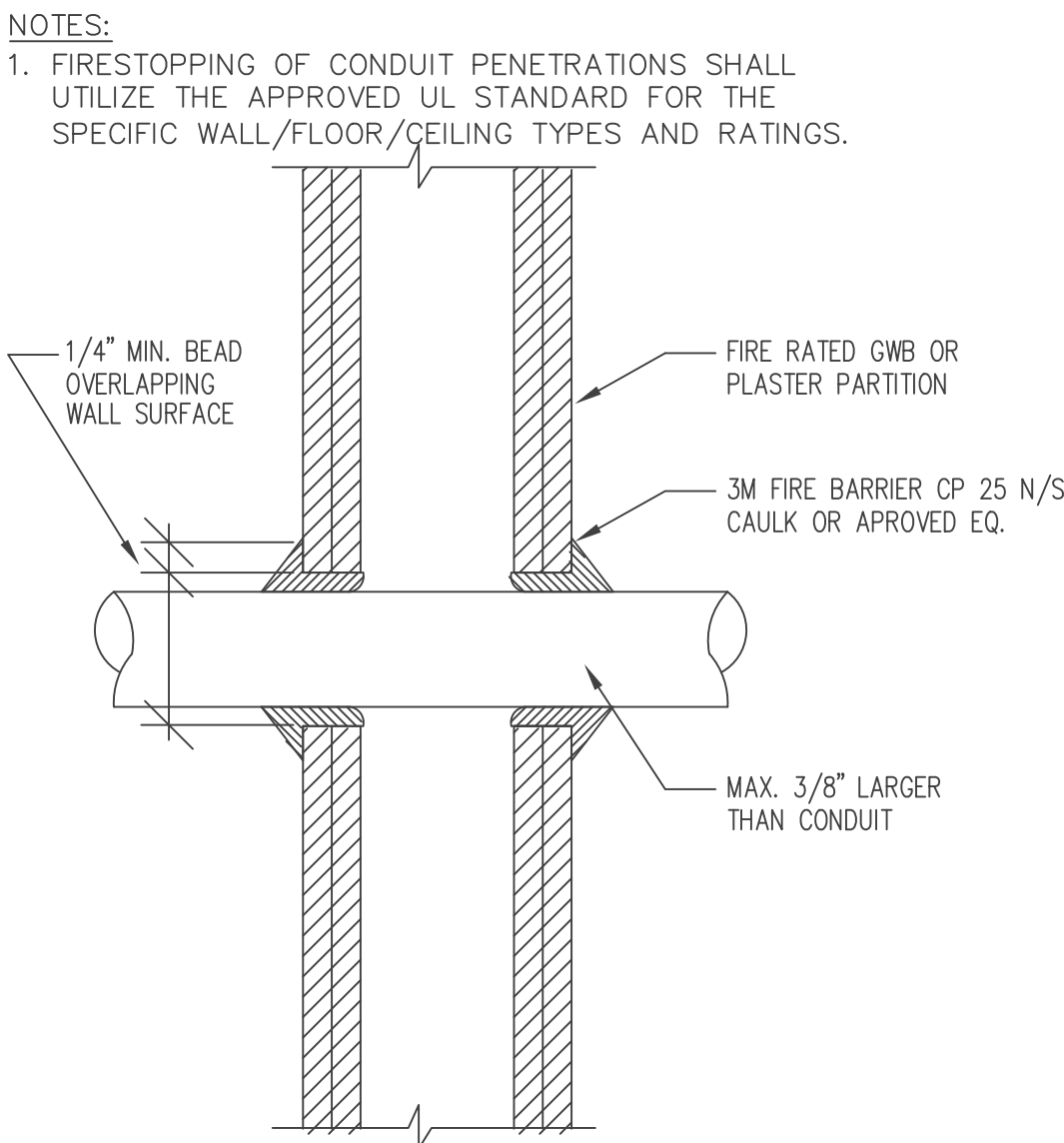
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CONDUIT PENETRATION DETAIL 1

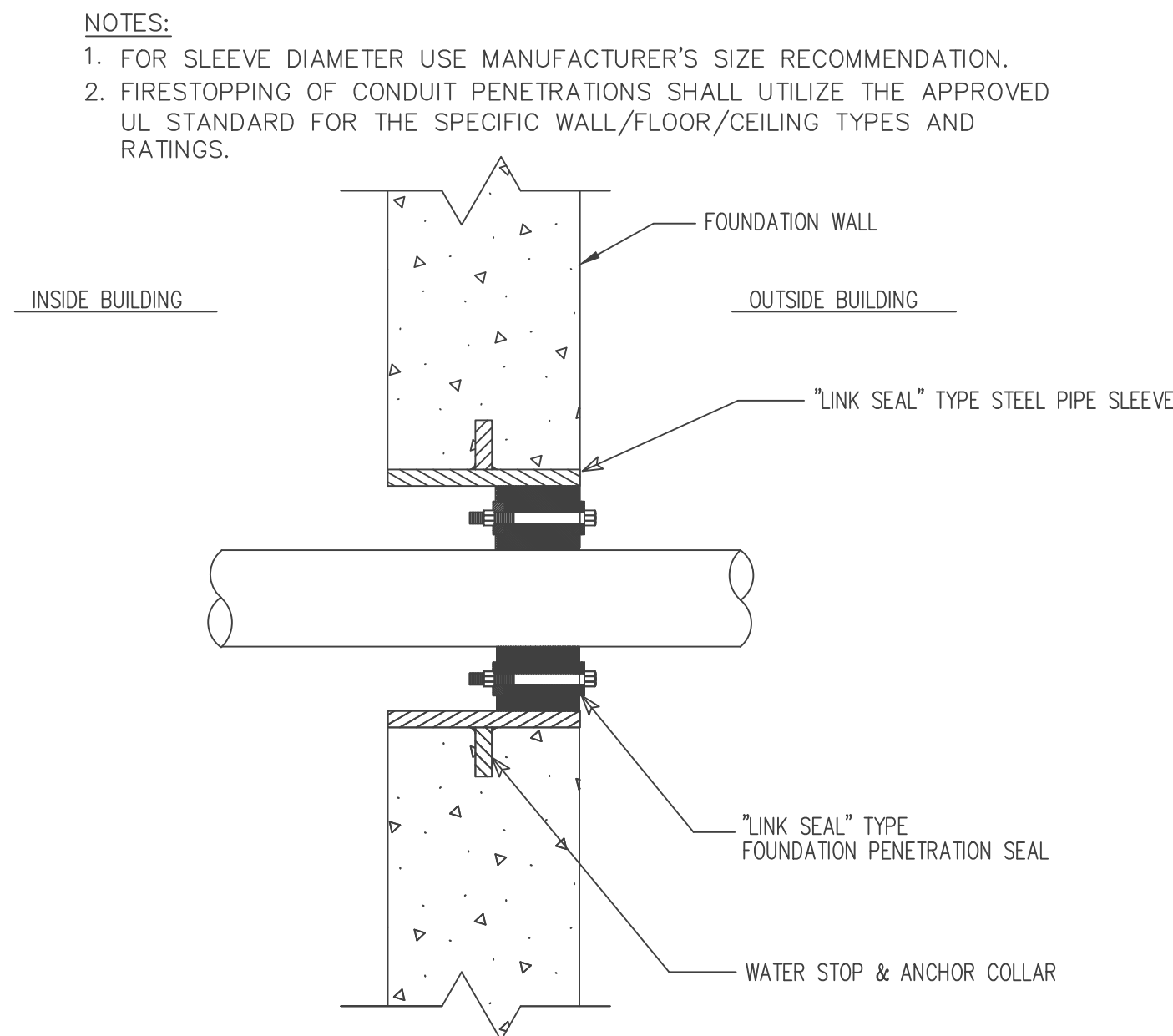
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CONDUIT PENETRATION DETAIL 2

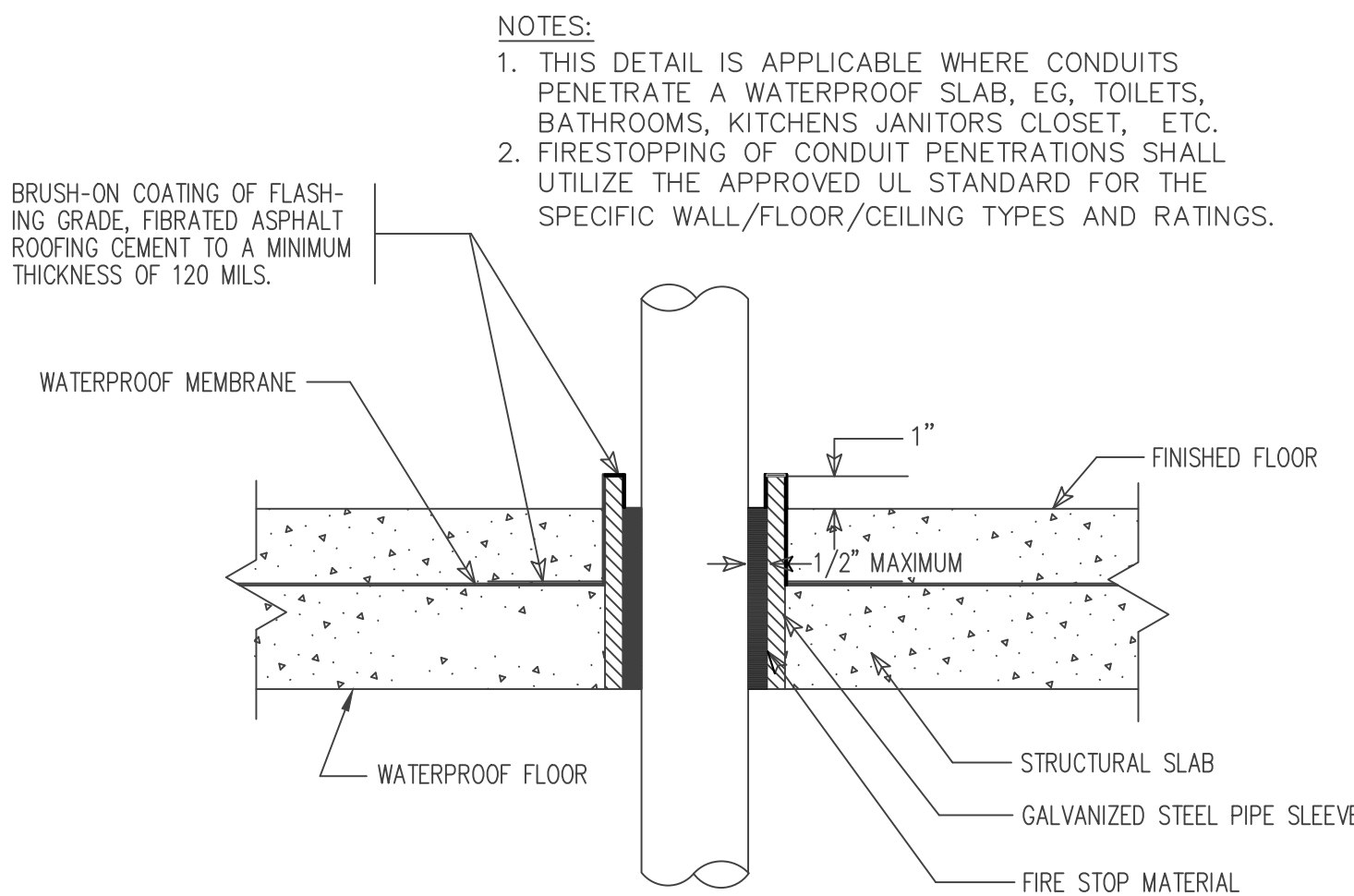
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CONDUIT PENETRATION DETAIL 3

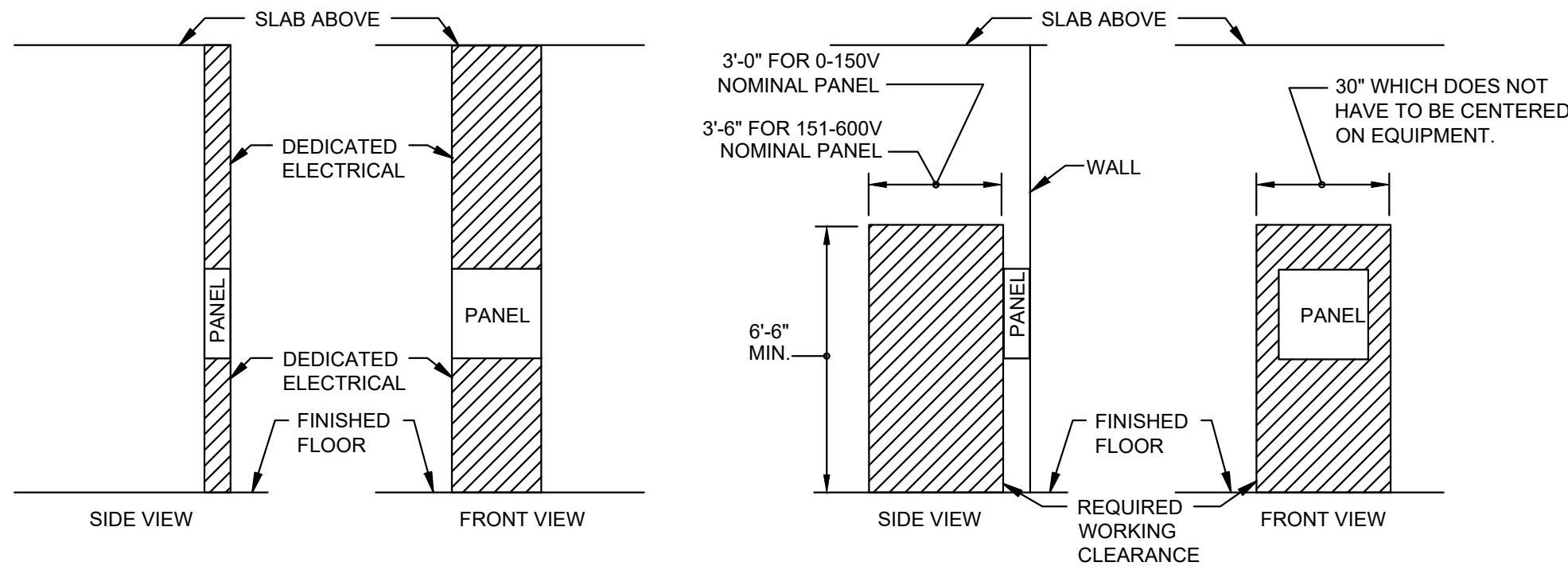
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CONDUIT PENETRATION DETAIL 4

N.T.S.



6
EO.01

ELECTRICAL PANEL CLEARANCE REQUIREMENTS

N.T.S.

- NOTES:
- DISTANCE FROM FACE OF EQUIPMENT PER NEC 110.26 (A)(1): 3'-0" MINIMUM CLEARANCE FOR ELECTRICAL EQUIPMENT AT 208Y/120V, 3'-6" MINIMUM CLEARANCE FOR ELECTRICAL EQUIPMENT AT 480Y/277V. NOTE: MINIMUM CLEARANCE INCREASED TO 4'-0" IF THERE ARE EXPOSED LIVE PARTS ON BOTH SIDE OF THE WORKING ELECTRICAL EQUIPMENT DOOR MUST BE ABLE TO OPEN TO 90 DEGREES MINIMUM. DEDICATED EQUIPMENT SPACE, ABOVE AND BELOW THE ELECTRICAL EQUIPMENT, SHALL BE PROVIDED AS DESCRIBED IN NEC 2020 - 110.26(E)(1). THE SPACE EQUAL TO THE WIDTH AND DEPTH OF THE EQUIPMENT AND EXTENDING FROM THE FLOOR TO A HEIGHT OF 6'-0" ABOVE THE EQUIPMENT OR TO THE STRUCTURAL CEILING, WHICHEVER IS LOWER, SHALL BE DEDICATED TO THE ELECTRICAL INSTALLATION. NO PIPING, DUCTS, LEAK PROTECTION APPARATUS, OR OTHER EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION SHALL BE LOCATED IN THIS ZONE. SEE NEC 2020 - 110.26 FOR EXCEPTIONS AND FURTHER INFORMATION.
 -



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NEW CONSTRUCTION
**34TH STREET
SANDCASTLE PARK
OPERATIONS
BUILDING**

BLOCK 3403, LOTS 1 & 2
CITY OF OCEAN CITY
CAPE MAY COUNTY
NEW JERSEY
08226

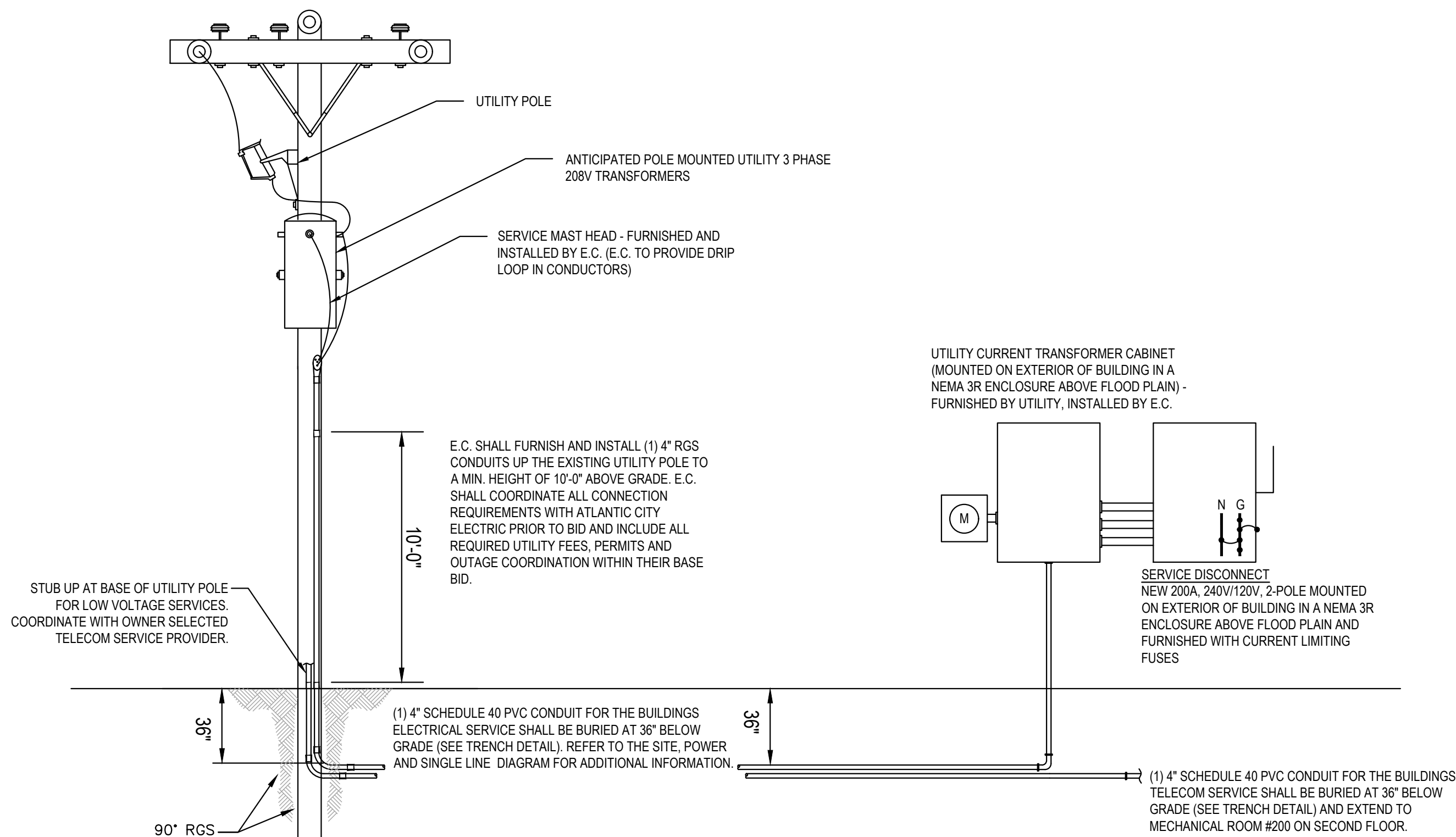
No.	Description	Date
	PERMIT ISSUE	09.11.2026

ELECTRICAL DETAILS

Scale AS NOTED
Drawn by BP
Date 09.11.2026

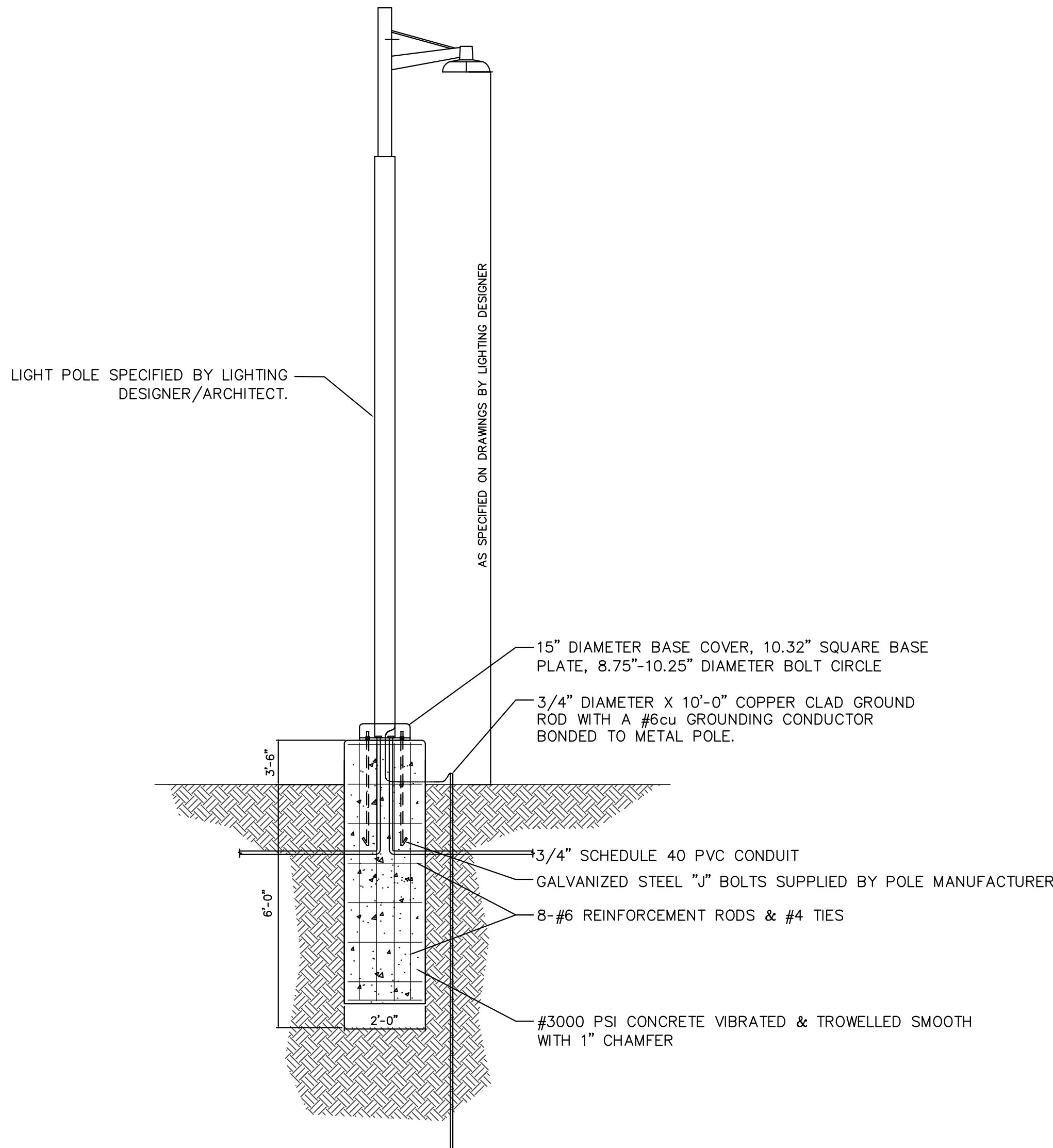
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Comission no. 250350



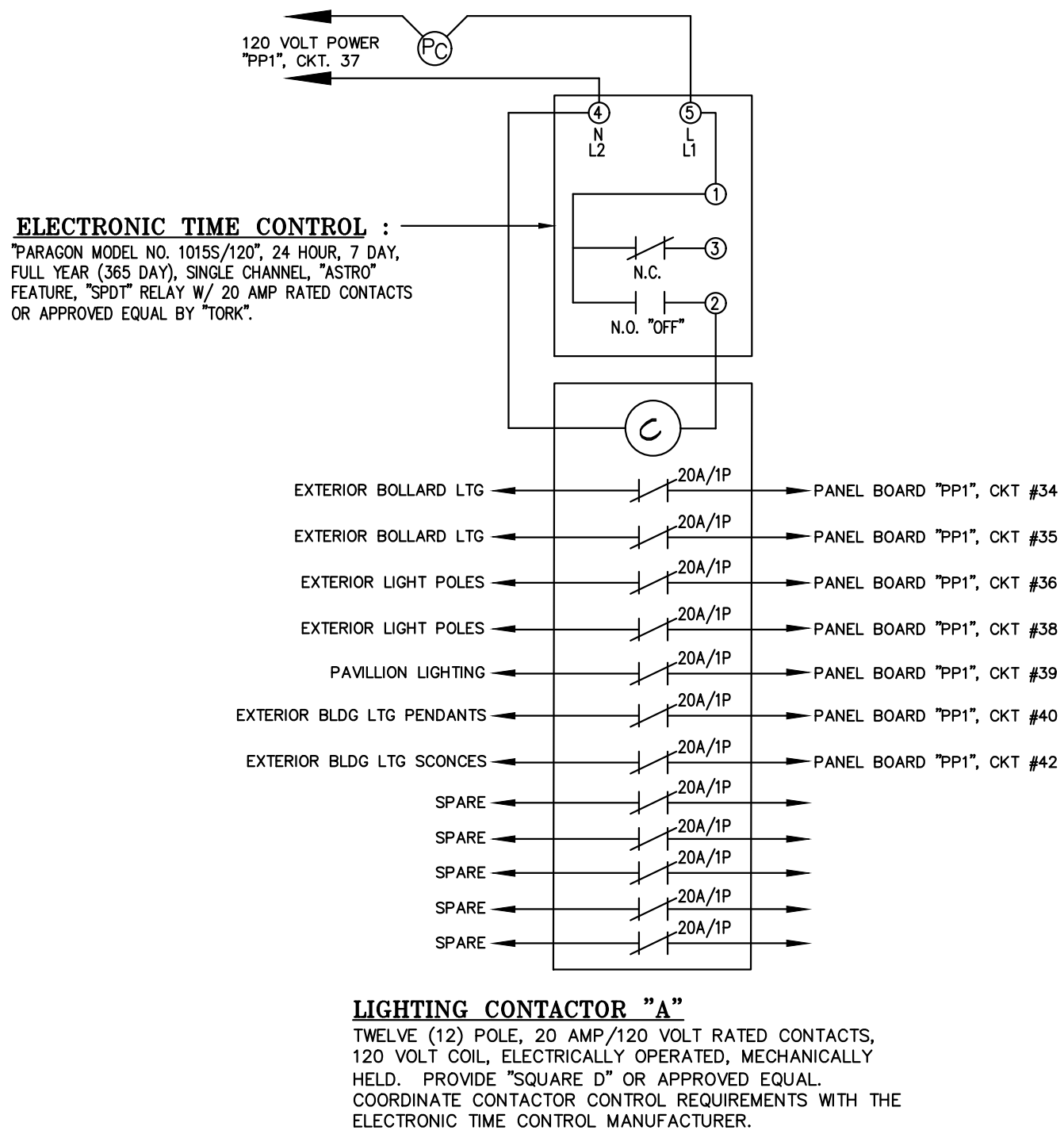
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E0.02
N.T.S.

TYPICAL ELECTRICAL UTILITY SERVICE DETAIL



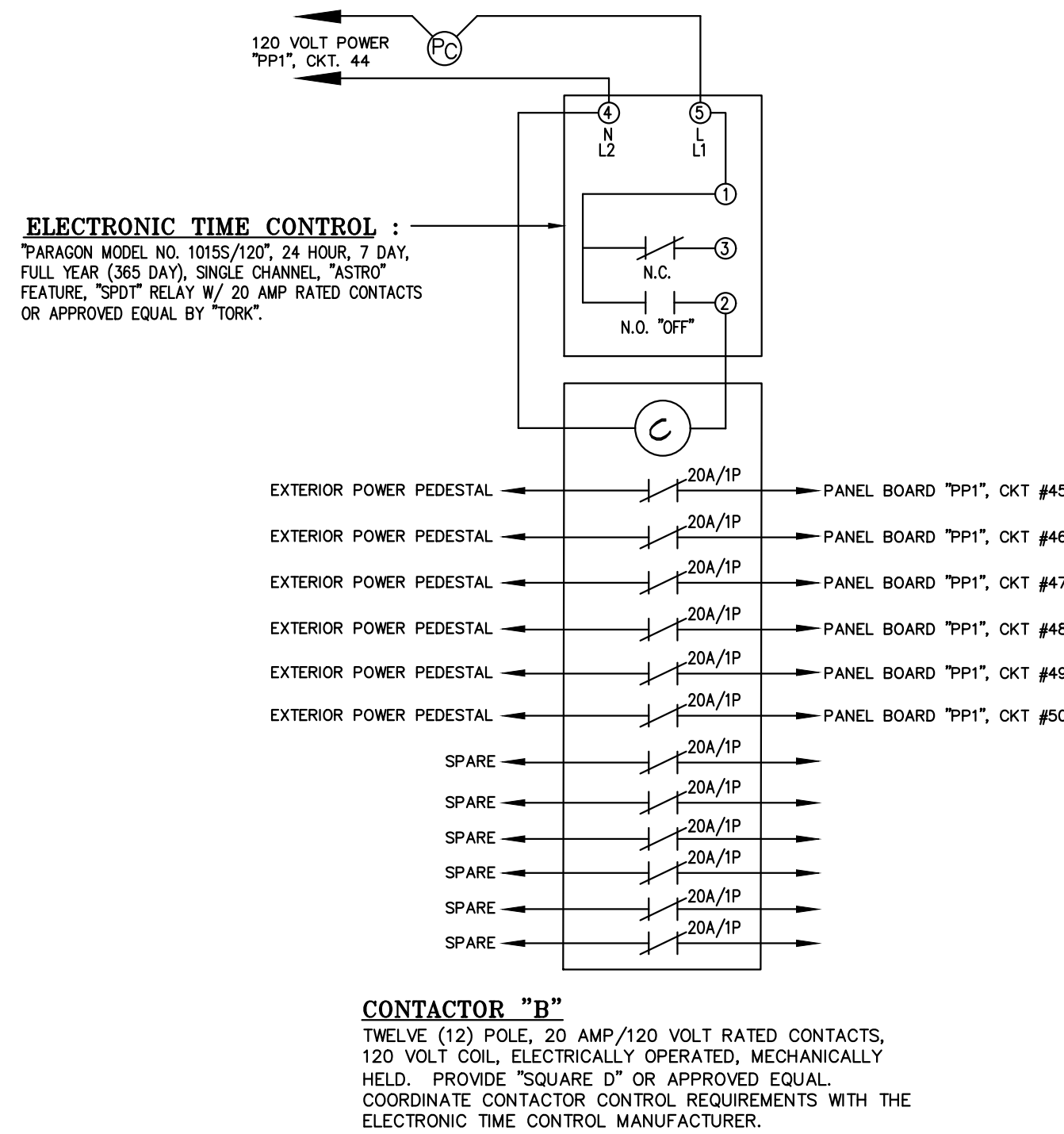
4
E0.02
N.T.S.

EXTERIOR LIGHT POLE DETAIL



2
E0.02
N.T.S.

LIGHTING CONTACTOR "A" DETAIL



3
E0.02
N.T.S.

CONTACTOR "B" DETAIL

NEW CONSTRUCTION

34TH STREET
SANDCASTLE PARK
OPERATIONS
BUILDING

BLOCK 3403, LOTS 1 & 2
CITY OF OCEAN CITY
CAPE MAY COUNTY
NEW JERSEY
08226

No.	Description	Date
	PERMIT ISSUE	09.11.2026

ELECTRICAL DETAILS

Scale	AS NOTED
Drawn by	BP
Date	09.11.2026

E0.02

UTILITY ELECTRICAL FEED
SITE CONTRACTORS: COORDINATE WITH ELECTRIC COMPANY TO RUN BELOW GRADE CONDUIT FROM UTILITY POLE ALONG WEST AVE RIGHT-OF-WAY AND PULL MAIN ELECTRICAL WIRING TO UTILITY METER, CT CABINET, AND SERVICE DISCONNECT.

BUILDING CONTRACTORS: WIRING FROM SERVICE DISCONNECT INTO WIREWAY AND EVERYTHING BEYOND THAT POINT.

SITE LIGHTING BRANCH CIRCUITS
SITE CONTRACTORS: COORDINATE WITH EXTERIOR CONTRACTORS TO LOCATE CONDUIT(S) CAPPED 5 FEET OUTSIDE OF BUILDING. PROVIDE ELECTRICAL CONNECTION TO ALL SITE LIGHTING BOLLARD LIGHTS AND SPORT LIGHTING, AS WELL AS POWER PEDESTALS. CONNECT TO SPLICE IN JUNCTION BOX LEFT BY BUILDING CONTRACTOR.

BUILDING CONTRACTORS: PROVIDE CONDUIT(S) BETWEEN PANEL AND TERMINATE WITH JUNCTION BOX 5' OUTSIDE OF BUILDING. RUN WIRE FROM PANEL TO JUNCTION BOX WITH 2' OF SLACK FOR CONNECTION BY SITE CONTRACTOR.

SITE POWER BRANCH CIRCUITS
SAME AS ABOVE.

NOTE:
- OPERATIONS BUILDING GC SHALL PROVIDE INTERIOR ACCESS TO SITE CONTRACTOR TO ALLOW FOR ANY FINAL CONNECTIONS REQUIRED BETWEEN INTERIOR AND EXTERIOR SCOPE.
- SITE AND BUILDING CONTRACTORS SHALL MEET TO DISCUSS PROJECT PHASING AND CONSTRUCTION SCHEDULES TO ALLOW FOR STREAMLINED HANDOFF OF SERVICES.

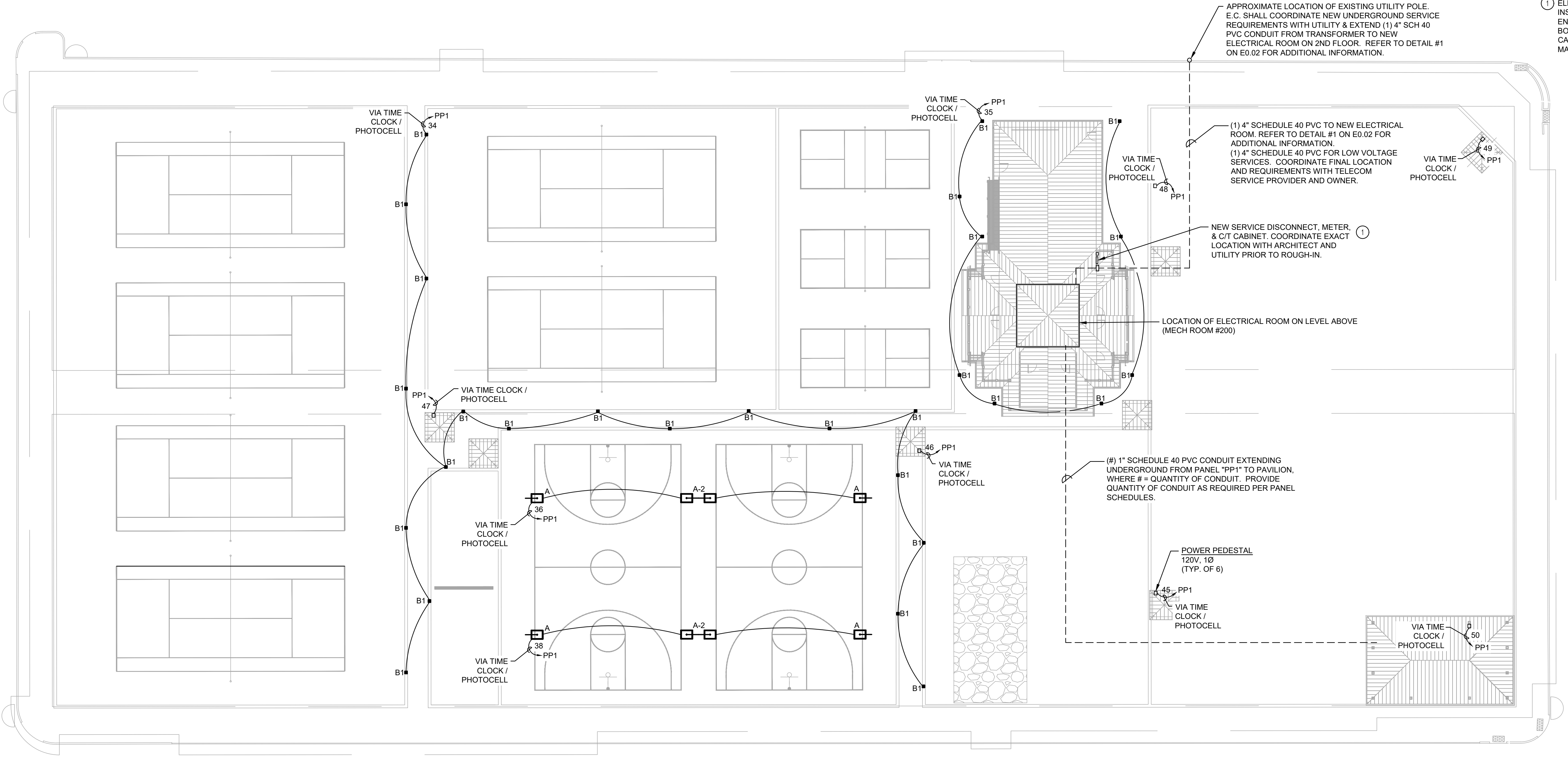
NEW WORK SYSTEM NOTES:
GENERAL NOTES:

- THE CONDUIT ROUTING SHOWN ON THIS PLAN IS DIAGRAMMATIC. E.C. SHALL ADJUST ROUTING IN FIELD AS NECESSARY. FOR ANY SIGNIFICANT DEVIATIONS IN THE ROUTING, THE E.C. SHALL CHECK VOLTAGE DROP AND ADJUST CONDUIT AND WIRE SIZES AS REQUIRED.
- SITE E.C. TO COORDINATE LOCATION OF EASEMENTS, UNDERGROUND UTILITIES AND DRAINAGE BEFORE DRILLING POLE BASES.
- E.C. TO INCREASE CONDUIT SIZE OR PROVIDE ADDITIONAL CONDUITS FOR EASE OF INSTALLATION AS DETERMINED BY THE E.C. AND THE NEC.
- E.C. TO PROVIDE ADDITIONAL HANDHOLES, AS NECESSARY, TO:
 - ALLOW EASE OF INSTALLATION.
 - REDUCE PULLING STRESS ON THE WIRING.
 - MEET THE NATIONAL ELECTRICAL CODE REQUIREMENT OF A MAXIMUM OF FOUR NINETY DEGREE BENDS, OR EQUIVALENT, BETWEEN PULL POINTS. HANDHOLE LOCATIONS SHALL BE COORDINATED WITH THE CIVIL ENGINEER AND ALL TRADES.
- E.C. TO RUN ADDITIONAL CONDUITS, AS NECESSARY, TO MEET THE NEC 2020 CONDUIT FILL AND WIRE AMPACITY DERATING REQUIREMENTS.
- ALL CONDUCTORS LESS THAN OR EQUAL TO 100A ARE COPPER UNLESS OTHERWISE NOTED.
- E.C. TO INCREASE WIRE AND RACEWAY SIZES, AS NECESSARY, TO KEEP VOLTAGE DROP FOR EACH BRANCH CIRCUIT AT 3% OR LESS.
- BURIED CONDUITS SHALL HAVE MINIMUM COVER AS SPECIFIED IN NEC TABLE 300.5
- INSTALLATION OF ALL EQUIPMENT, DEVICES, RACEWAYS AND WIRING SHALL BE IN ACCORDANCE WITH THE NEC.
- E.C. TO ROUTE ALL WIRING TO MINIMIZE TOTAL RUN LENGTH.

NEW WORK KEYED NOTES:

GENERAL: NEW WORK NOTES ARE INDICATED WITH THE FOLLOWING SYMBOL  AND ARE NUMBERED AS FOLLOWS:

- ① ELECTRICAL SERVICE ENTRANCE CONDUCTORS SHALL BE INSTALLED UNDERGROUND EXCEPT WHEN ENTERING/EXITING THE UTILITY FURNISHED CT CABINET BOTTOM BASE. EXTEND UNDERGROUND FROM THE CT CABINET WITH A STUB UP INTO THE ELECTRICAL ROOM MAIN PANELBOARD.



1 ELECTRICAL SITE PLAN
E0.10 SCALE: 1/20" = 1'-0" 0' 7.5' 15' 22.5' 45'
SCALE BAR: 1/20"=1'-0"

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ELECTRICAL NEW
WORK SITE PLAN

Scale AS NOTED
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E0.10

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- ① COORDINATE FINAL LOCATION AND EQUIPMENT DIMENSIONS OF NEW SERVICE DISCONNECT, C/T CABINET, AND METER WITH ARCHITECT AND UTILITY PRIOR TO ROUGH-IN.

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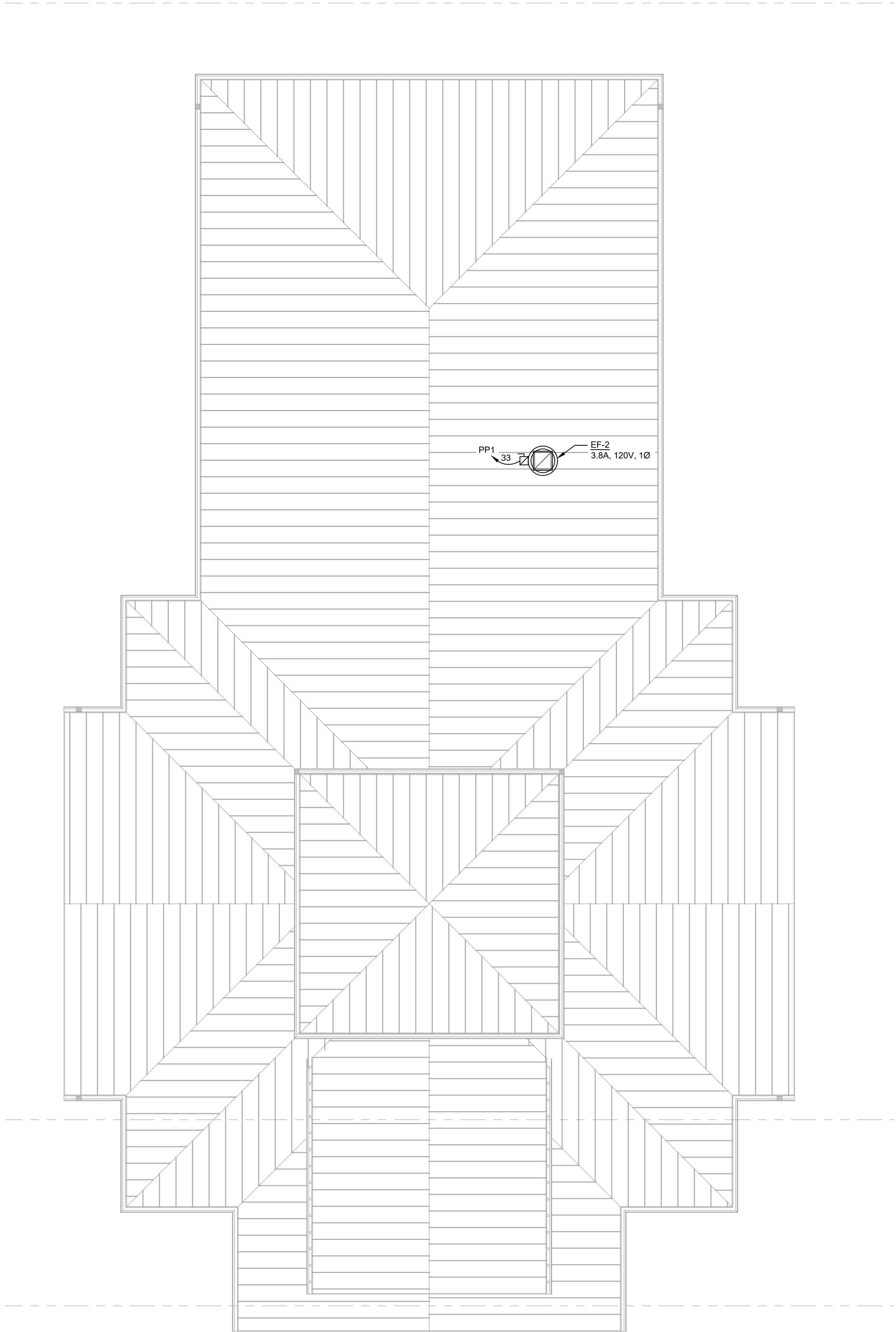
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ELECTRICAL NEW WORK POWER PLAN

Scale	AS NOTED
Drawn by	BP
Date	09.11.2026

E1.01

Comission no.	250350
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NEW WORK SYSTEM NOTES:

GENERAL NOTES:

1. REFER TO ELECTRICAL SHEET E0.00 FOR PROJECT GENERAL NOTES, SYMBOL LEGEND, AND ABBREVIATIONS.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2020 EDITION OF THE NATIONAL ELECTRICAL CODE.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO BEGINNING WORK.
4. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES. WHERE EQUIPMENT REQUIRING ELECTRICAL POWER IS BEING INSTALLED, ELECTRICAL CONTRACTOR SHALL BECOME FAMILIAR WITH AND FOLLOW MANUFACTURERS' RECOMMENDED INSTALLATION AND WIRING INSTRUCTIONS.
5. DRAWINGS ARE DIAGRAMMATIC. PRIOR TO BIDDING, VERIFY CONDITIONS, LOCATIONS AND REQUIREMENTS IN THE FIELD TO ENSURE A COMPLETE AND PROPERLY OPERATIONAL SYSTEM. EXAMINE ALL CONTRACT DOCUMENTS FOR REQUIREMENTS AFFECTING WORK OF THE ELECTRICAL TRADE.
6. CABLE ROUTING SHOWN ON THIS DRAWING IS SCHEMATIC IN NATURE.
7. WIRE SIZE OF BRANCH CIRCUITS SHALL BE MINIMUM #12 AWG, BUT NO LESS THAN PERMITTED BY THE NATIONAL ELECTRICAL CODE (NEC) FOR SPECIFIED OVERCURRENT PROTECTION. ANY DISCREPANCY MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BID.
8. ALL CONDUCTORS ARE COPPER UNLESS OTHERWISE NOTED.
9. EXPOSED EMT, CONDUIT AND SURFACE MOUNTED WIRING ARE NOT PERMITTED IN ANY FINISHED SPACE.
10. INSTALL NO MORE THAN THE EQUIVALENT OF (4) 90 - DEGREE BENDS
11. ALL HVAC AND REFRIGERATION CIRCUIT BREAKERS TO BE HACR RATED.



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ELECTRICAL ROOF
POWER PLAN

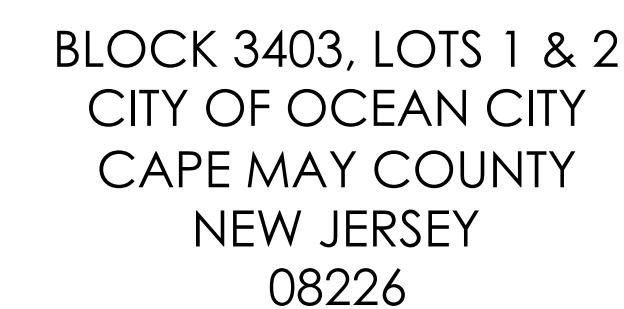
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E1.02

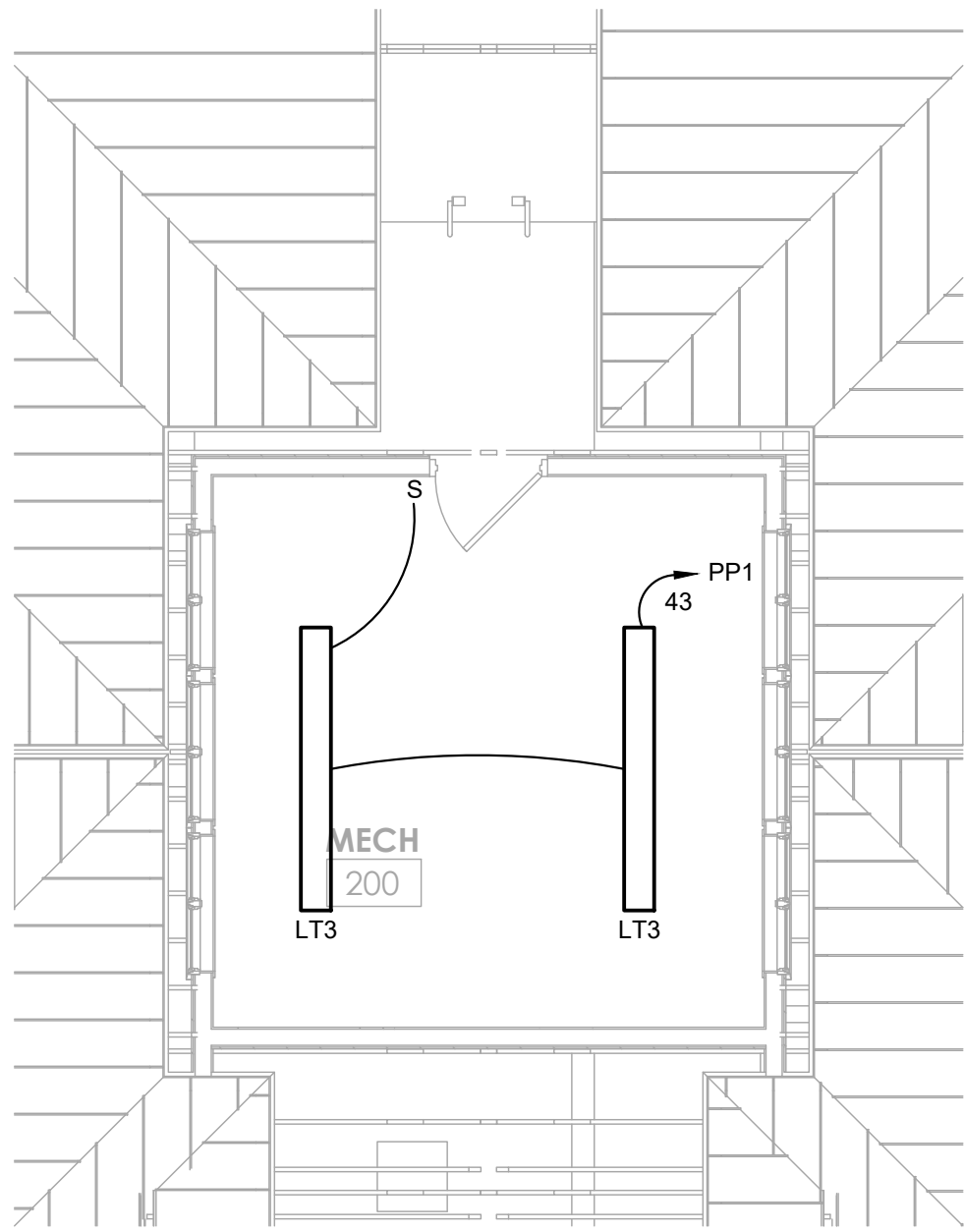
Comission no. 250350



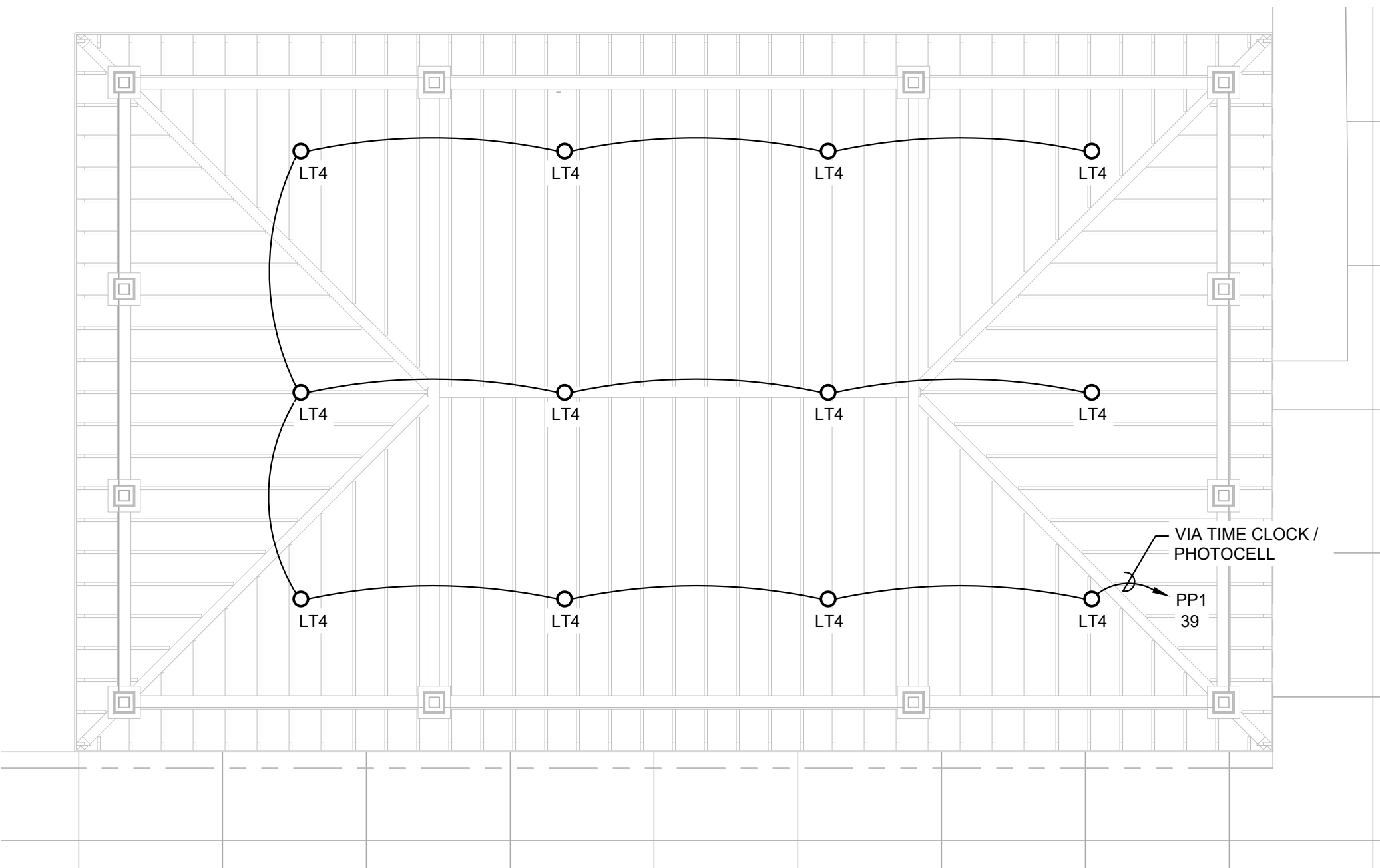
② EXHAUST FAN "EF-3" LOCATED WITHIN MOP CLOSET SHALL BE CONTROLLED VIA THE ADJACENT RENTALS ROOM #109 LIGHTING CONTROL DEVICES.



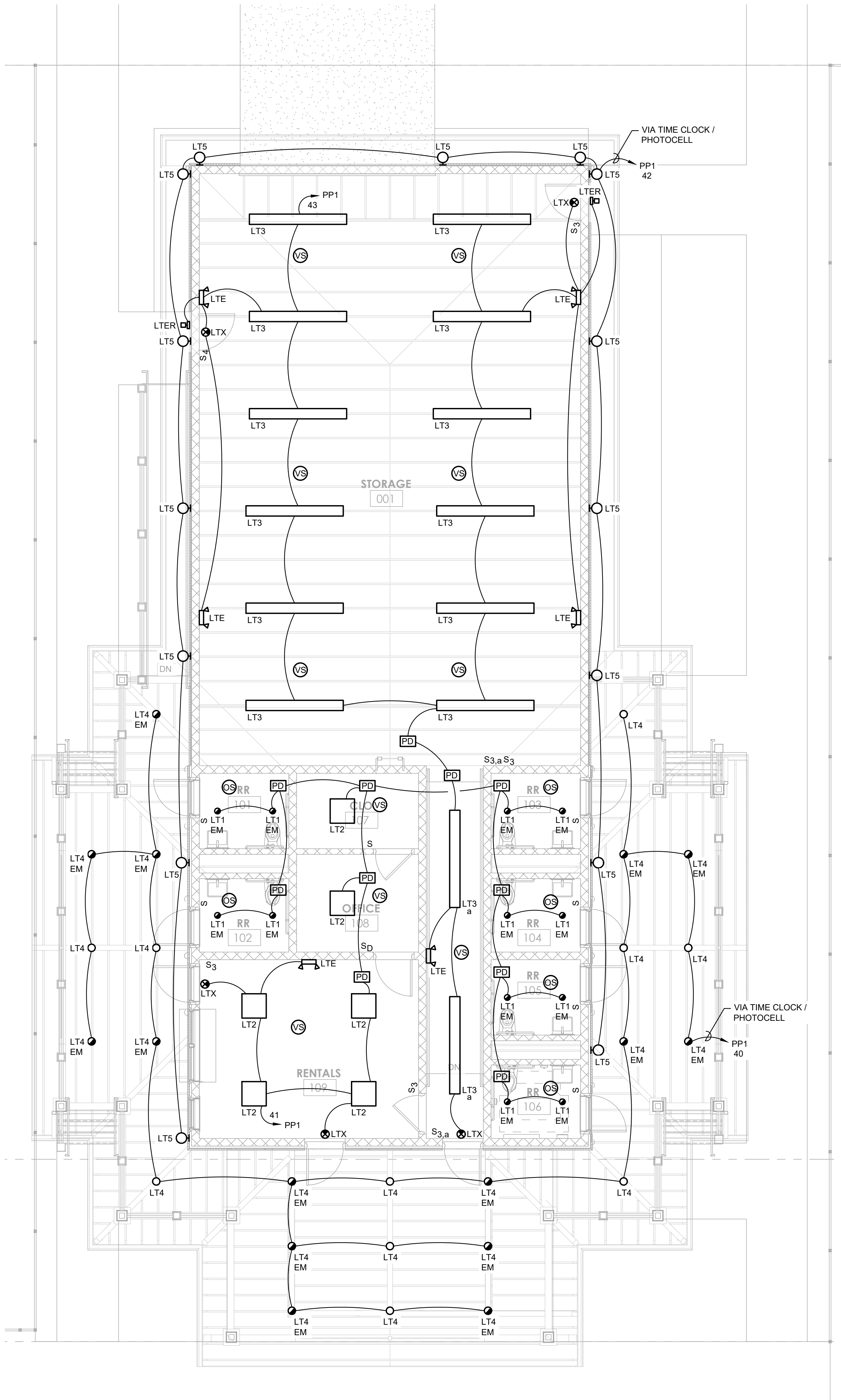
Comission no.	25035C
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3 ELECTRICAL MECH RM CEILING PLAN - GARAGE
E2.01 SCALE: 3/16" = 1'-0"



2 ELECTRICAL FIRST FLOOR CEILING PLAN - PAVILLION
E2.01 SCALE: 3/16" = 1'-0"



1 ELECTRICAL FIRST FLOOR CEILING PLAN - GARAGE
E2.01 SCALE: 3/16" = 1'-0"

NEW WORK SYSTEM NOTES:

GENERAL NOTES:

1. REFER TO ELECTRICAL SHEET E0.00 FOR PROJECT GENERAL NOTES, SYMBOL LEGEND, AND ABBREVIATIONS.
2. REFER TO ELECTRICAL SHEET E0.02 LIGHTING CONTACTOR DETAILS.
2. REFER TO ELECTRICAL SHEET E3.01 FOR ELECTRICAL PANEL SCHEDULES.
3. REFER TO ELECTRICAL SHEET E4.01 FOR LUMINAIRE SCHEDULE AND LIGHTING CONTROL DETAILS.
4. REFER TO ARCHITECTURAL PLANS FOR ELEVATION PLANS IDENTIFYING LAYOUT OF LIGHT FIXTURES.
5. REFER TO ARCHITECTURAL PLANS FOR CEILING MOUNTED LIGHTING FIXTURE LOCATIONS AND ASSOCIATED DEVICES.
6. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2020 EDITION OF THE NATIONAL ELECTRICAL CODE.
7. UNLESS OTHERWISE NOTED, EXIT SIGNS SHALL BE CIRCUITED TO THE EMERGENCY CIRCUIT SERVING THE AREA. EXIT SIGNS SHALL BE CONNECTED AHEAD OF ANY LIGHTING CONTROL DEVICES.
8. COORDINATE FINAL LIGHTING CONTROL SCHEMES, SENSITIVITY SETTINGS AND ON/OFF SCHEDULING/TIMING WITH OWNER/ARCHITECT.
9. THE ELECTRICAL CONTRACTOR IS TO VERIFY THE CEILING TYPE AND SPACE LIMITATIONS PRIOR TO ORDERING FIXTURES.
10. VERIFY LOCATIONS OF ALL DEVICES AND FIXTURES PRIOR TO BEGINNING CONSTRUCTION.
11. LIGHTING FIXTURES SHALL BE FURNISHED AND COMPLETE WITH NECESSARY MOUNTING OR HANGING HARDWARE AND WITH PLASTER FRAMES WHERE REQUIRED.
12. PROVIDE ADDITIONAL EMERGENCY LIGHTING AND EXIT SIGNS AS REQUIRED BY THE AHJ.
13. PROVIDE DIRECTIONAL CHEVRONS ON EXIT SIGNS AS INDICATED ON THESE DRAWINGS, AND AS REQUIRED BY THE AHJ.
14. PROVIDE EXIT SIGNS IN ACCORDANCE WITH NJ EDITION OF IBC 2015, SECTION 1013.
15. DRAWINGS ARE DIAGRAMMATIC. PRIOR TO BIDDING, VERIFY CONDITIONS, LOCATIONS AND REQUIREMENTS IN THE FIELD TO ENSURE A COMPLETE AND PROPERLY OPERATIONAL SYSTEM. EXAMINE ALL CONTRACT DOCUMENTS FOR REQUIREMENTS AFFECTING WORK OF THE ELECTRICAL TRADE.



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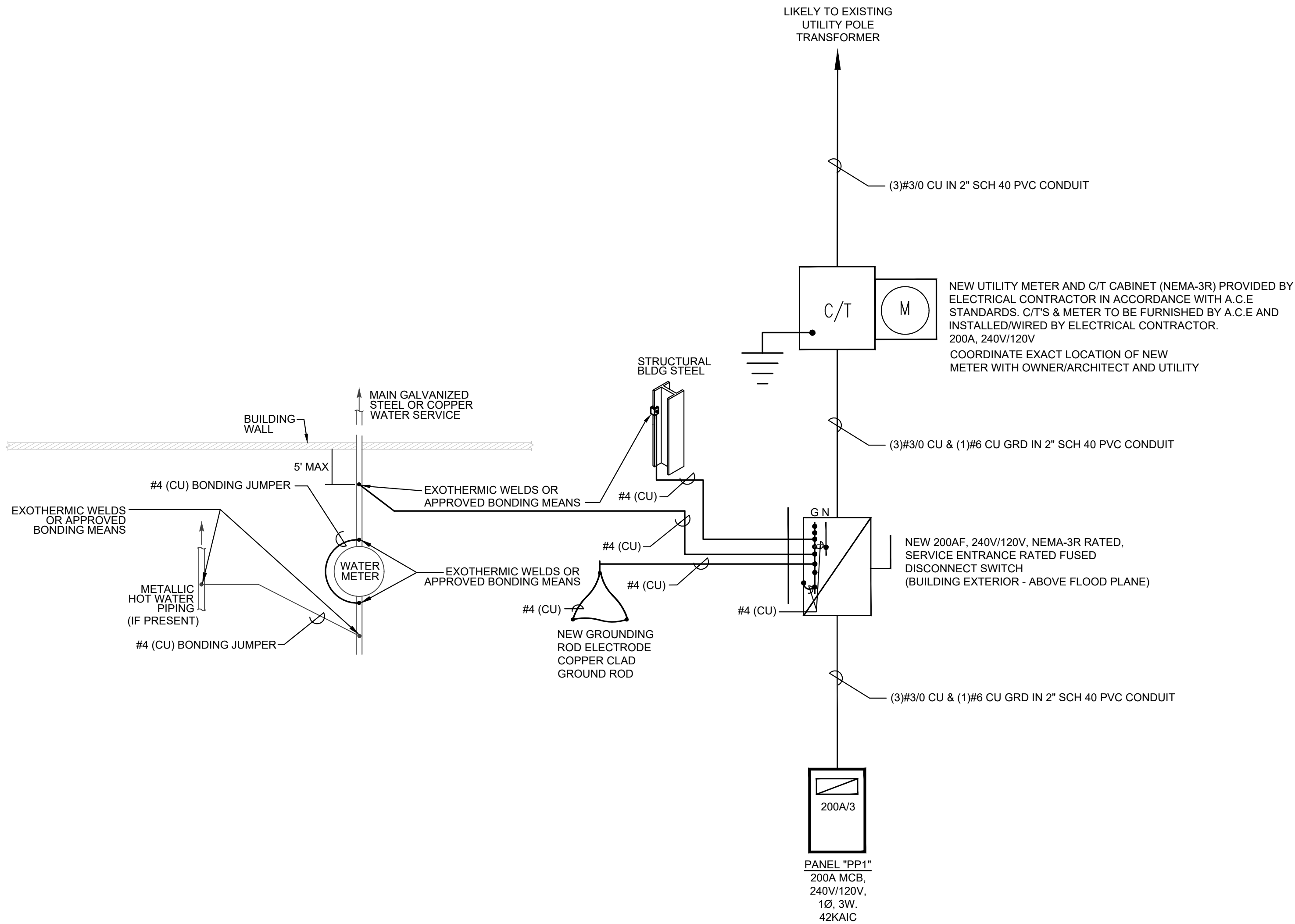
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ELECTRICAL NEW
WORK LIGHTING PLAN

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E2.01

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1 ELECTRICAL SINGLE LINE DIAGRAM
E3.01 SCALE: N.T.S.

1

NEW PANEL "PP1"													FED FROM: SEE SINGLE LINE DIAGRAM FEEDER: SEE SINGLE LINE DIAGRAM																	
MAINS: 200A MCB VOLTAGE 240V, 1Ø, 3W																														
CONDUIT	WIRE SIZE	SERVICE TO:	KW/PHASE		CIRCUIT BREAKER				CIRCUIT BREAKER				KW/PHASE		SERVICE TO:	WIRE SIZE	CONDUIT													
			A	B	AMP	P	NO.	Φ	NO.	P	AMP	A	B																	
3/4"	2#12 & 1#12 GRD	STORAGE 001 RECEPT	0.72		20	1	1	A	2	1	20	0.72			STORAGE 001 RECEPT	2#12 & 1#12 GRD	3/4"													
3/4"	2#12 & 1#12 GRD	RESTROOM 101 RECEPT		0.18	20	1	3	B	4	2	15	1.54			CU-1	3#12 & 1#12 GRD	3/4"													
3/4"	2#12 & 1#12 GRD	RESTROOM 102 RECEPT	0.18		20	1	5	A	6	▼	▼	1.54			▼	▼	▼													
3/4"	2#12 & 1#12 GRD	OFFICE 108 & CL 107 RECEPT		1.08	20	1	7	B	8	1	20	0.97			GF-1 & MOD	2#12 & 1#12 GRD	3/4"													
3/4"	2#12 & 1#12 GRD	RENTALS 109 RECEPT	0.54		20	1	9	A	10	1	20	1.50			EGU-2	2#12 & 1#12 GRD	3/4"													
3/4"	2#12 & 1#12 GRD	RESTROOM 103 RECEPT		0.54	20	1	11	B	12	1	20	0.45			GUH-2	2#12 & 1#12 GRD	3/4"													
3/4"	2#12 & 1#12 GRD	RESTROOM 104 RECEPT	0.18		20	1	13	A	14	1	20				SPARE	2#12 & 1#12 GRD	3/4"													
3/4"	2#12 & 1#12 GRD	RESTROOM 105 RECEPT	0.18		20	1	15	B	16	1	20	0.18			STAGE EXTERIOR RECEPT	2#12 & 1#12 GRD	3/4"													
3/4"	2#12 & 1#12 GRD	RESTROOM 106 RECEPT	0.18		20	1	17	A	18	1	20	0.18			STAGE EXTERIOR RECEPT	2#12 & 1#12 GRD	3/4"													
3/4"	2#12 & 1#12 GRD	RESTROOM 106 RECEPT	0.18		20	1	19	B	20	1	20	0.18			STAGE EXTERIOR RECEPT	2#12 & 1#12 GRD	3/4"													
1"	2#8 & 1#10 GRD	PAVILLION EXTERIOR RECEPT	0.36		20	1	21	A	22	1	20	0.18			STAGE EXTERIOR RECEPT	2#12 & 1#12 GRD	3/4"													
1"	2#8 & 1#10 GRD	PAVILLION EXTERIOR RECEPT		0.36	20	1	23	B	24	1	20	0.18			STAGE EXTERIOR RECEPT	2#12 & 1#12 GRD	3/4"													
3/4"	2#12 & 1#12 GRD	MECH RM 200 RECEPT	0.36		20	1	25	A	26	1	20	1.01			EOUH-1 RESTROOM 103	2#12 & 1#12 GRD	3/4"													
3/4"	2#12 & 1#12 GRD	EOUH-1 RESTROOM 101		1.01	20	1	27	B	28	1	20	1.01			EOUH-1 RESTROOM 104	2#12 & 1#12 GRD	3/4"													
3/4"	2#12 & 1#12 GRD	EOUH-1 RESTROOM 102	1.01		20	1	29	A	30	1	20	1.01			EOUH-1 RESTROOM 105	2#12 & 1#12 GRD	3/4"													
		SPARE			20	1	31	B	32	1	20	1.01			EOUH-1 RESTROOM 106	2#12 & 1#12 GRD	3/4"													
3/4"	2#12 & 1#12 GRD	EF-2 ROOF	0.46		20	1	33	A	34	1	20	0.55			EXTERIOR BOLLARD LIGHTING	2#8 & 1#10 GRD	3/4"													
3/4"	2#10 & 1#10 GRD	EXTERIOR BOLLARD LIGHTING		0.25	20	1	35	B	36	1	20	1.74			EXTERIOR LIGHT POLES	2#8 & 1#10 GRD	3/4"													
3/4"	2#12 & 1#12 GRD	LTG CONTACTOR PANEL "A"	0.50		20	1	37	A	38	1	20	1.74			EXTERIOR LIGHT POLES	2#8 & 1#10 GRD	3/4"													
1"	2#10 & 1#10 GRD	PAVILLION LIGHTING		0.45	20	1	39	B	40	1	20	0.94			EXTERIOR BLDG LTG PENDANTS	2#12 & 1#12 GRD	3/4"													
3/4"	2#12 & 1#12 GRD	BLDG INTERIOR LTG, EF-1, EF-3	0.64		20	1	41	A	42	1	20	0.90			EXTERIOR BLDG LTG SCONCES	2#12 & 1#12 GRD	3/4"													
3/4"	2#12 & 1#12 GRD	BLDG INTERIOR LIGHTING		1.65	20	1	43	B	44	1	20	0.50			CONTACTOR PANEL "B"	2#12 & 1#12 GRD	3/4"													
3/4"	2#10 & 1#10 GRD	POWER PEDESTAL	0.18		20	1	45	A	46	1	20	0.18			POWER PEDESTAL "B"	2#10 & 1#10 GRD	3/4"													
3/4"	2#10 & 1#10 GRD	POWER PEDESTAL		0.18	20	1	47	B	48	1	20	0.18			POWER PEDESTAL	2#10 & 1#10 GRD	3/4"													
3/4"	2#10 & 1#10 GRD	POWER PEDESTAL	0.18		20	1	49	A	50	1	20	0.18			POWER PEDESTAL	2#10 & 1#10 GRD	3/4"													
3/4"	2#12 & 1#12 GRD	GUH-1 - STOR 001		0.61	20	1	51	B	52	1	20	0.08			HMW-1 - CLO 107	2#12 & 1#12 GRD	3/4"													
3/4"	2#12 & 1#12 GRD	GUH-1 - STOR 001	0.61		20	1	53	A	54	1	20				SPARE															
		SPARE			20	1	55	B	56	1	20				SPARE															
		SPARE			20	1	57	A	58	1	20				SPARE															
		SPACE			20	1	59	B	60	1	20				SPACE															
		SPACE			1	61	A	62	1						SPACE															
		SPACE			1	63	B	64	1						SPACE															
		SPACE			1	65	A	66	1						SPACE															
			6.09	6.67	A		B				9.69		8.96																	
					15.77				15.63																					
							31.40																							
LOAD SUMMARY																														
31,400 W/ 240 V= 130.8 AMPS																														
131 A X 125% = 163.5 AMPS																														



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CODE REVIEW COMMENTS		09.25.2026

ELECTRICAL SINGLE
LINE DIAGRAM &
PANEL SCHEDULES

Scale AS NOTED
Drawn by BP
Date 09.11.2026

E3.01

Comission no. 250350

LUMINAIRE SCHEDULE

FIXTURE TYPE MARK	DESCRIPTION	MANUFACTURER	MODEL #	MOUNTING				LAMP TYPE	WATTAGE	VOLTAGE	DIM TYPE	REMARKS
				REC.	SURF.	SUSP.	POLE					
LT1	4" ROUND DOWNLIGHT	GOTHAM	IVO4 D 35LM 35K 80CRI MWD / MIN10 MVOLT ZT E10W	X				LED	34.4	120/277	0-10V 10%	10W EMERGENCY BATTERY PACK
LT2	2X2 SURFACE PANEL	LITHONIA	EPANL 2x2 4000LM 80CRI 35K / MIN10 MVOLT		X			LED	37	120/277	0-10V 10%	
LT3	8FT LINEAR	LITHONIA	UFIT L96 16000LM HEF 35K 80CRI / GZ10 MVOLT		X			LED	114.4	120/277	0-10V 10%	
LT4 *	6" ROUND CYLINDER PENDANT	GOTHAM	IVO6CYL PC D 35LM 35K 80CRI MWD MIN10 MVOLT ZT WL * EM: IVO6CYL PC D 35LM 35K 80CRI MWD MIN10 MVOLT ZT E10WR WL			X		LED	37.4	120/277	0-10V	TO BE SPECIFIED AS WET LISTED * "EM" INDICATES FIXTURE WITH 10W EMERGENCY BATTERY PACK
LT5	GOOSENECK SCONCE	DUNTON HOUSE	ROE		X			(1) E26 LAMP	60	120		"WS10"
LTE	EMERGENCY LIGHT	LITHONIA	EU2C HO		X			LED	0.81	120/277		EMERGENCY LIGHT, WITH HIGH OUTPUT FOR REMOTE EMERGENCY LIGHT HEAD CAPACITY
LTER	REMOTE EMERGENCY LIGHT	LITHONIA	ERE GY SGL WP SQ WP		X			LED	1	3.6VDC (POWERED FROM "LTE")		REMOTE EMERGENCY LIGHT, POWERED FROM ASSOCIATED EMERGENCY LIGHT UNIT "LTE"
LTX	EXIT SIGN	LITHONIA	LQM S W RG / MVOLT EL SD		X			LED	1.5	120/277		EXIT SIGN, NI-CAD BATTERY, SELF-DIAGNOSTIC
A	EXTERIOR SINGLE POLE LIGHT	LSI INDUSTRIES, INC.	ZNM-55L-CT-30 / UNV				X	LED	436	120/277		
A-2	EXTERIOR TWIN POLE LIGHT	LSI INDUSTRIES, INC.	(2 @ 180) ZNM-55L-CT-30 / UNV				X	LED	872	120/277		
B1	EXTERIOR BOLLARD	KIM LIGHTING	PA7S-NU3-12L-020-3K7 / UNV-EM				X	LED	27	120/277		EM BATTERY BACKUP OPTION PROVIDES EMERGENCY PATH EGRESS LIGHTING FOR 90 MINUTES

LIGHTING CONTROL SEQUENCE OF OPERATIONS

LOCATION	SEQUENCE OF OPERATIONS
SINGLE RESTROOMS	OCCUPANCY SENSOR ON/OFF. SENSOR TIME OUT AFTER 20 MINUTES OF NO MOTION AND SHUT LIGHTING OFF
RENTALS / OFFICE / CLOSET / STORAGE	MANUAL ON/OFF VIA WALL STATION; AUTOMATIC SHUTOFF VIA MOTION SENSOR(S) AFTER 20 MINUTE TIMEOUT.
EXTERIOR	PHOTOCELL ON; TIMECLOCK OFF.

NOTES:
1. EC TO PROVIDE SPARE COMPONENT STOCK AS DEFINED IN SPECIFICATIONS.
2. EC TO COORDINATION PRE-INSTALLATION MEETING WITH LIGHTING CONTROL VENDOR PRIOR TO ROUGH-IN.
3. EC TO COORDINATE FINAL PROGRAMMING AND TRAINING WITH END-USER.
4. LIGHTING CONTROL VENDOR TO PROVIDE A FOLLOW UP VISIT 6 MONTHS AFTER COMPLETION FOR FINE-TUNING OF LIGHTING CONTROL SYSTEM.
5. EC TO PROVIDE ADD/ALT PRICING ON ANNUAL SERVICE CONTRACT FOR LIGHTING CONTROL SYSTEM INCLUDING FOUR ONSITE SERVICE DAYS AND 24/7 PHONE SUPPORT.



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NEW CONSTRUCTION
34TH STREET
SANDCASTLE PARK
OPERATIONS
BUILDING

BLOCK 3403, LOTS 1 & 2
CITY OF OCEAN CITY
CAPE MAY COUNTY
NEW JERSEY
08226

No.	Description	Date
	PERMIT ISSUE	09.11.2026

ELECTRICAL
LIGHTING SCHEDULE
& CONTROL DETAILS

Scale AS NOTED
Drawn by BP
Date 09.11.2026

E4.01

Comission no. 250350

FIRE ALARM GENERAL NOTES

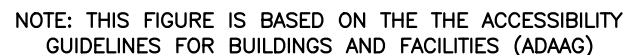
1.	ALL ELECTRICAL WORK TO BE INSTALLED IN ACCORDANCE WITH THE 2020 EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA 70) AS ADOPTED BY THE UNIFORM CONSTRUCTION CODE - STATE OF NEW JERSEY AND ANY OTHER PARTY HAVING JURISDICTION.	22.	FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW ALL FIRE PROTECTION DRAWINGS AND COORDINATE LOCATIONS AND QUANTITIES OF ALL TAMPER SWITCHES, FLOW SWITCHES, PRESSURE SWITCHES, ETC., AND THEIR FIRE ALARM WIRING REQUIREMENTS. ALL FIRE PROTECTION DEVICES SHALL BE WIRED AND INTERCONNECTED INTO THE FACILITY'S EXISTING FIRE ALARM SYSTEM.
2.	THE FIRE ALARM SYSTEM INSTALLATION SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODE REQUIREMENTS AND ANY OTHER PARTY HAVING JURISDICTION, INCLUDING 2021 IBC, 2018 IFC AS REFERENCED IN THE 2015 IBC AND NFPA & ANSI STANDARDS AS REFERENCED BY THE 2021 INTERNATIONAL IBC AND IFC.	23.	DETECTORS SHALL NOT BE INSTALLED UNTIL AFTER THE CONSTRUCTION CLEAN-UP IS COMPLETE AND FINAL DETECTORS THAT HAVE BEEN INSTALLED PRIOR TO FINAL CLEAN-UP BY ALL TRADES SHALL BE CLEANED OR REPLACED.
3.	ALL ELECTRICAL AND FIRE ALARM EQUIPMENT FOR THE PROJECT SHALL BE NEW AND APPROVED BY UNDERWRITERS LABORATORY (UL) OR ANY OTHER NATIONALLY RECOGNIZED TESTING AGENCY UNLESS NOTED OTHERWISE ON DRAWINGS.	24.	EACH FIRE ALARM SYSTEM CIRCUIT SHALL NOT EXCEED 70% OF ITS RATED CAPACITY.
4.	ALL NECESSARY PERMITS AND INSPECTIONS SHALL BE PROCURED BY THE CONTRACTOR, AND ALL PERMIT AND INSPECTION FEES PAID BY CONTRACTOR. ALL LICENSES REQUIRED BY CONTRACTOR SHALL BE PROCURED AND PAID BY THE CONTRACTOR. SUBMIT TO OWNER DUPLICATE CERTIFICATES OF INSPECTION FROM THE APPROVED INSPECTION AGENCY.	25.	CONNECTED LOAD OF THE FIRE ALARM SYSTEM'S BATTERIES SHALL NOT EXCEED 70% OF ITS RATED CAPACITY.
5.	UPON COMPLETION OF THE WORK, THE ENTIRE WIRING SYSTEM SHALL BE FREE FROM GROUNDS, SHORT CIRCUITS, OPENS, OVERLOADS AND IMPROPER VOLTAGES.	26.	ALLOW FOR MINIMUM OF 25% EXPANSION OF THE FIRE ALARM SYSTEM.
6.	PRIOR TO FINAL ACCEPTANCE OF THE WORK, A WRITTEN STATEMENT SHALL BE SUBMITTED TO THE OWNER GUARANTEEING ALL EQUIPMENT AND SYSTEMS AGAINST DEFECTIVE MATERIAL AND WORKSMANSHIP FOR ONE (1) YEAR FROM THE DATE OF ACCEPTANCE. UPON NOTICE ALL DEFECTIVE EQUIPMENT, MATERIALS AND SYSTEMS SHALL BE PROMPTLY REPAIRED AT NO EXPENSE TO THE OWNER.	27.	ALL FIRE ALARM CABLING SHALL BE "FPLP" RATED OR RUN IN A MINIMUM 3/4" CONDUIT. ALL EXPOSED LINE AND LOW-VOLTAGE CABLE SHALL BE INSTALLED IN RIGID GALVANIZED STEEL CONDUIT.
7.	THIS SET OF DRAWINGS IS DIAGRAMMATIC IN NATURE AND INDICATES THE GENERAL ARRANGEMENT OF THE SYSTEM AND APPROXIMATE LOCATIONS OF THE EQUIPMENT. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THAT THERE IS ADEQUATE SPACE AT THE LOCATIONS INDICATED FOR ALL EQUIPMENT PRIOR TO INSTALLATION OF SAME. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL DIMENSIONS IN THE FIELD, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.	28.	ALL FIRE ALARM DEVICES SHALL BE GRAPHICALLY IDENTIFIED ON THE FACILITY'S EXISTING FIRE ALARM SYSTEM'S GRAPHICS WORKSTATION.
8.	FIRE ALARM CONTRACTOR SHALL SECURE SHOP DRAWINGS FROM OTHER CONTRACTORS AND VERIFY EXACT ELECTRICAL CHARACTERISTICS OF EQUIPMENT TO BE WIRED PRIOR TO ROUGH-IN. IF DISCREPANCIES ARE NOTED BETWEEN THE FIRE ALARM CONTRACT DRAWINGS AND OTHER CONTRACTOR SHOP DRAWINGS, FIRE ALARM CONTRACTOR IS TO IMMEDIATELY NOTIFY ARCHITECT AND ENGINEER. FAILURE TO PERFORM THIS DUTY WILL NOT RELIEVE THE FIRE ALARM CONTRACTOR OF THE RESPONSIBILITY TO CORRECT WIRING DEFICIENCIES AT NO ADDITIONAL EXPENSE TO THE OWNER.	29.	FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE, AT HIS OWN EXPENSE, TO HAVE PREPARED BY A NEW JERSEY LICENSED PROFESSIONAL ENGINEER, FIRE ALARM SYSTEM DESIGN, WITH SHOP DRAWINGS, FOR THIS PROJECT. FIRE ALARM SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW JERSEY, AND SHALL BE SUBMITTED FOR REVIEW AND APPROVAL TO THE ARCHITECT, ENGINEER AND APPROVING LOCAL CONSTRUCTION OFFICIALS PRIOR TO PERFORMANCE OF ANY WORK.
9.	ALL DEVICES OR EQUIPMENT SHOWN IN SYMBOL FORM SHALL BE WIRED TO ITS RESPECTIVE PANEL.	30.	ACTUATION OF ANY ALARM DEVICES IN THE BUILDING SHALL ACTIVATE AN ALARM SIGNAL AT THE FACILITY'S FIRE ALARM CONTROL PANEL, REMOTE FIRE ALARM ANNUNCIATOR PANELS AND THE FIRE ALARM GRAPHIC WORKSTATION.
10.	ALL WIRING, CONNECTIONS AND DEVICES SHALL BE PROVIDED TO COMPLY WITH THE GROUNDING REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND THE DRAWINGS UNLESS NOTED OTHERWISE. ALL EXPOSED NON-CURRENT CARRYING ELECTRICAL EQUIPMENT METALLIC PARTS, RACEWAY SYSTEMS AND WIRING SYSTEM GROUNDING CONDUCTORS SYSTEM SHALL BE GROUNDING.	31.	ALL WIRING SHALL COMPLY WITH PROJECT SPECIFICATIONS, 2020 NEC, 2020 NFPA 72, 2021 IBC, ADADG, UL 1971, AND THE REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION. ALL EXPOSED WIRING OR WIRING INSTALLED IN LOCATIONS SUBJECT TO DAMAGE SHALL BE INSTALLED IN METAL RACEWAY PAINTED RED. ALL WIRING AND RACEWAYS SHALL BE INSTALLED IN A NEAT AND PROFESSIONAL MANNER.
11.	THE FIRE ALARM CONTRACTOR SHALL PAINT RED IN COLOR ALL JUNCTION BOXES AND CONDUIT ASSOCIATED WITH THE FIRE ALARM SYSTEM. LABEL WITH PERMANENT MARKER ALL JUNCTION BOXES AND OUTLET BOXES WITH CIRCUIT NUMBER, PANEL IDENTIFICATION OR ADDRESS AS REQUIRED.	32.	ALL WIRE AND CABLE SHALL HAVE A WIRE MARKER ON EACH END, OR EQUAL. ALL MARKERS SHALL BE TYPED, SHIELDS ON ALL SHIELDED CABLE SHALL BE CONTINUOUS, GROUNDED AT THE FIRE ALARM CONTROL PANEL ONLY, AND ISOLATED FROM GROUND ELSEWHERE.
12.	ALL CUTTING AND PATCHING REQUIRED FOR THE FIRE ALARM WORK SHALL BE THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR.	33.	FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING PATCHING AND PAINTING REQUIRED FOR COMPLETE FIRE ALARM SYSTEM INSTALLATION.
13.	ALL HOLES OR VOIDS CREATED TO ROUTE CONDUIT THROUGH FIRE RATED FLOORS AND WALLS SHALL BE SEALED WITH AN INTUMESCENT MATERIAL CAPABLE OF EXPANDING UP TO 8 TO 10 TIMES WHEN EXPOSED TO A TEMPERATURE OF 250 DEGREES FAHRENHEIT AND ABOVE. ACCEPTABLE SEALING MATERIAL SUCH AS 3M FIRE BARRIER CAULK, PUTTY, STRIP AND SHEET FORM SHALL HAVE I.C.B.O. AND BOCA APPROVED RATING OF 3 HOURS PER ASTM E-814 (U.L. 1479) AS PER NEC ART. 300-21.	34.	MOUNTING FOR ALL DEVICES SHALL COMPLY WITH ALL ADOPTED NEW JERSEY STANDARDS LISTED IN THE IBC, NFPA 90A, NFPA 72, NEC, AND ADADG.
14.	A COMPLETE SET OF "AS-BUILT" DRAWINGS, (1) SET IN HARD COPY REPRODUCIBLE AND (1) SET OF ELECTRONIC FILES PRODUCED IN PDF FORMAT, SHALL BE FURNISHED TO THE OWNER AND ENGINEER UPON PROJECT COMPLETION.	35.	FOR CONDUIT APPLICATIONS, USE ELECTRICAL METALLIC TUBING (EMT) AT ALL LOCATIONS INDOORS AND SCHEDULE 80 PVC CONDUIT OUTDOORS. ALL CONDUIT SIZE SHALL BE 3/4" MINIMUM.
15.	ALL EQUIPMENT, DEVICES AND CIRCUITS SHALL BE LABELED ACCORDING TO OWNER REQUIREMENTS. PRIOR TO LABELING AND IDENTIFICATION OF ALL EQUIPMENT, DEVICES AND CIRCUITS, CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THESE REQUIREMENTS WITH THE OWNER.	36.	FIRE ALARM CONTRACTOR SHALL REPAIR/PAINT AND (OR) REPAINT TO MATCH ADJACENT AREAS, ANY AREAS DAMAGED BY WORK OF THIS CONTRACT.
16.	PRIOR TO CONNECTING ANY LOADS TO PANELBOARDS, THE FIRE ALARM CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR TO VERIFY THE PANELBOARDS' TOTAL CONNECTED LOADS DO NOT EXCEED THOSE ALLOWED BY THE NATIONAL ELECTRICAL CODE AS ADOPTED BY THE STATE OF NEW JERSEY.	37.	THE FIRE ALARM VENDOR MUST CALCULATE THE NOTIFICATION APPLIANCES CANDELA AND dB RATINGS, AND DESIGNATE THEM ON THE SHOP DRAWINGS. ALL STROBE AND HORN SETTINGS MUST COMPLY WITH NEW JERSEY UCC AND NFPA 72 REQUIREMENTS.
17.	ALL CIRCUIT BREAKERS TO BE INSTALLED IN PANELBOARDS SHALL BE OF THE SAME MANUFACTURER AND TYPE, WITH AN EQUAL OR GREATER SHORT CIRCUIT RATING MATCHING THE PANELBOARDS BUS RATING. ALL CIRCUIT BREAKERS SERVING FIRE ALARM DEVICES SHALL BE PROVIDED A "LOCK-ON" FEATURE.	38.	ACCEPTANCE TESTING MUST BE PERFORMED IN ACCORDANCE WITH PENNSYLVANIA UCC AND 2017 NFPA 72 AS ADOPTED BY THE STATE OF NEW JERSEY. CONTRACTOR SHALL SUBMIT PENNSYLVANIA APPROVED ACCEPTANCE TESTING REPORTS TO OWNER AND LOCAL AUTHORITIES HAVING JURISDICTION.
18.	ALL LOW-VOLTAGE FIRE ALARM CABLE SHALL BE INDEPENDENTLY SUPPORTED FROM THE STRUCTURE. CABLES SHALL NOT BE LAID ON CEILING PANELS.	39.	FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL PROGRAMMING NECESSARY FOR THE FACILITY'S MODIFIED FIRE ALARM SYSTEM, AND SHALL BE PERFORMED BY A TECHNICIAN CERTIFIED BY THE FIRE ALARM SYSTEM'S MANUFACTURER TO PERFORM THIS WORK. SUBMIT AS PART OF THE FIRE ALARM SHOP DRAWING ALL FIRE ALARM TECHNICIAN'S MANUFACTURER CERTIFICATIONS.
19.	ALL WIRING AND EQUIPMENT INSTALLED IN DUCTS, PLENUMS AND OTHER AIR HANDLING SPACES SHALL CONFORM TO NEC, ARTICLE 300-22.	40.	UPON COMPLETION OF FINAL TESTING, THE FIRE ALARM SYSTEM MANUFACTURER SHALL SUBMIT ELECTRONIC AND HARD COPY SETS OF RECORD DRAWINGS DETAILING AS-BUILT CIRCUITING AND INCORPORATING ALL FIELD AND DESIGN DIRECTIVES GIVEN THROUGHOUT THE PROJECT.
20.	DO NOT INSTALL ANY A.C. CURRENT CARRYING CONDUCTORS IN OR CLOSE TO THE SAME RACEWAY WITH FIRE ALARM SYSTEM CONDUCTORS.		

FIRE ALARM PERFORMANCE NOTES

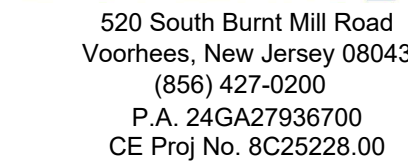
1. FIRE ALARM DESIGN AS SHOWN IS A PROTOTYPIC DESIGN PROVIDED AS A BASIS OF DESIGN FOR BID PURPOSES ONLY. CONTRACTOR SHALL BE RESPONSIBLE, AT OWN EXPENSE, TO HAVE PREPARED BY A NEW JERSEY LICENSED PROFESSIONAL ENGINEER A FIRE ALARM SYSTEM DESIGN, WITH SHOP DRAWINGS, FOR THIS PROJECT. FIRE ALARM SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW JERSEY, AND SHALL BE SUBMITTED FOR REVIEW AND APPROVAL TO THE ARCHITECT, ENGINEER AND APPROVING LOCAL CONSTRUCTION OFFICIALS PRIOR TO PERFORMANCE OF ANY WORK. 2. PROVIDE THE SERVICES OF A QUALIFIED FIRE ALARM CONTRACTOR/VENDOR WITH A MINIMUM OF 10 YEARS OF CERTIFIED PROFESSIONAL EXPERIENCE WITH SIMILAR FIRE ALARM SYSTEMS WHICH ARE TYPICALLY INSTALLED AT THE PROJECT, AND IS LOCATED WITHIN 100-MILES OF THE PROJECT SITE. 3. FIRE ALARM CONTRACTORS SHALL PROVIDE ALL MANPOWER, EQUIPMENT, AND LABOR AS NECESSARY TO PROVIDE A COMPLETE AND OPERABLE SYSTEM. TEST AND ADJUST NEW FIRE ALARM SYSTEM AS NOTED HEREIN. 4. ALL FIRE ALARM TESTING SHALL OCCUR BETWEEN THE HOURS OF 9:00AM AND 4:00PM WEEKDAYS, EXCLUDING LOCAL CITY HOLIDAYS. 5. TEST AND ADJUST EACH HOME RUN CIRCUIT INDEPENDENTLY FROM OTHER HOME RUNS. ADJUST SYSTEM GAIN SO THAT ALL FIRE ALARM HORNS PROVIDE 1000dB SPL +/-WEIGHTED AT 5-FEET ABOVE FINISHED FLOOR. USE A CALIBRATED SOUND PRESSURE METER PER PENNSYLVANIA UCC AND 2013 NFPA 72) DURING FIRE ALARM SYSTEM TESTS AND ADJUSTMENTS. BEGIN ALL TESTS WITH SYSTEM GAIN COMPLETELY OFF. DO NOT ACTIVATE OR TEST SYSTEM WITH AMPLIFIER GAINS FULLY OPEN. 6. DEMONSTRATE SYSTEM PERFORMANCE TO THE OWNER AND LOCAL FIRE INSPECTOR AT THE SPECIFIED GAIN SETTINGS, ADJUST SOUND LEVELS AS NECESSARY TO SATISFY THE OWNER AND LOCAL FIRE INSPECTOR. 7. ALL REQUIRED POWER CONNECTION, CONDUCTOR TYPES AND SIZES, BATTERY AND VOLTAGE DROP CALCULATIONS ARE TO BE SHOWN ON THE FIRE ALARM SHOP DRAWINGS. 8. UPON SYSTEM ACCEPTANCE, THE FACTORY TRAINED AND AUTHORIZED ENGINEERED SYSTEMS DISTRIBUTOR WHO PROVIDED THE MODIFICATIONS TO THE EXISTING FIRE ALARM SYSTEM SHALL PROVIDE THE OWNER WITH A FULL PARTS, MATERIALS AND LABOR WARRANTY FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF SYSTEM COMMISSIONING AND OWNER ACCEPTANCE. 9. EMERGENCY RESPONDER RADIO COVERAGE SHALL BE PROVIDED IN ALL NEW BUILDINGS IN ACCORDANCE WITH SECTION 510 OF THE INTERNATIONAL FIRE CODE. DOCUMENTATION MUST BE PROVIDED TO DESCRIBE HOW THIS REQUIREMENT WILL BE ADDRESSED TO SATISFY CODE REQUIREMENTS. FIRE DEPARTMENT APPROVAL IS REQUIRED. 10. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO CONTACT LOCAL AHJ TO DETERMINE IF JURISDICTION HAS ANY DAS SPECIFICATIONS OR CODE REQUIREMENTS PERTAINING TO EMERGENCY RESPONDER COMMUNICATIONS. 11. THE DAS SYSTEM WILL BE A DELEGATED DESIGN AND E.C. SHALL INCLUDE IN THEIR BID THE COST TO RETAIN THE SERVICES OF A DAS DESIGN AND INSTALLATION FIRM WITH BCS1 REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER (RCDD) ON STAFF. 12. DAS DESIGN FIRM SHALL PROVIDE DAS FLOOR AND RADIO AMPLIFICATION EQUIPMENT LAYOUT, DAS RISER DIAGRAM AND BILL OF MATERIALS. THEY WILL WORK WITH LOCAL AHJ ON ALL REQUIRED TESTING AND INSPECTIONS OF THE BUILDING DURING CONSTRUCTION AND MAKE ADJUSTMENT TO THE DESIGN AS REQUIRED. 13. THE DESIGNED DAS SYSTEM SHALL INCLUDE AT A MINIMUM EIGHTEEN (18) J8DA UNITS AND RELATED EQUIPMENT TO AMPLIFY THE REQUIRED FREQUENCIES; AN INTERNAL BATTERY BACKUP SYSTEM; ROOF TOP DONOR ANTENNA 14. E.C. SHALL INCLUDE IN THEIR BID THE MATERIAL AND INSTALLATION COST TO PROVIDE THE RISER INFRASTRUCTURE FOR A DAS SYSTEM, DAS FLOOR AND RADIO AMPLIFICATION EQUIPMENT, ANTENNAS AND ALL CABLEING TO PROVIDE A COMPLETE OPERABLE AND CODE COMPLIANT DAS SYSTEM.
ALL DUCT MOUNTED SMOKE OR HEAT DETECTORS (INCL. ADDRESSABLE RELAYS IF REQUIRED) SHALL BE FURNISHED AND WIRED BY THE FIRE ALARM CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR. THE FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR THE WIRING OF ALL DUCT MOUNTED DETECTORS TO ENSURE A COMPLETE OPERATING SYSTEM. THE FIRE ALARM CONTRACTOR SHALL REFER TO MECHANICAL DRAWINGS FOR THE LOCATIONS OF ALL DUCT MOUNTED DETECTORS. ALL DUCT MOUNTED DETECTORS AND THEIR ASSOCIATED WIRING SHALL CONFORM TO LATEST EDITION OF THE NATIONAL ELECTRIC CODE. MECHANICAL CONTRACTORS CONTROLS SUBCONTRACTOR IS RESPONSIBLE FOR ALL DEDICATED WIRING (AND ASSOCIATED CONTROLS PROGRAMMING) BETWEEN DUCT SMOKE AND HEAT DETECTORS REQUIRED FOR HVAC UNITS AND DAMPER OPERATIONS. PROVIDE TEST & RESET SWITCHES ON EACH DEVICE.

FIRE ALARM LEGEND

	HOME RUN ARROW INDICATES PANEL AND CIRCUIT NUMBER
	FIRE ALARM MANUAL PULL STATION
	FIRE ALARM COMBINATION HORN STROBE, # - INDICATES CANDELA RATING
	FIRE ALARM HORN, # - INDICATES CANDELA RATING
	FIRE ALARM STROBE, # - INDICATES CANDELA RATING
	FLOW SWITCH
	TAMPER SWITCH
	SMOKE DETECTOR TIED TO FIRE ALARM SYSTEM
	SMOKE AND CARBON MONOXIDE DETECTOR TIED TO FIRE ALARM SYSTEM
	CARBON MONOXIDE DETECTOR TIED TO FIRE ALARM SYSTEM
	HEAT DETECTOR TIED TO FIRE ALARM SYSTEM
	DOOR HOLDER
	120V DOOR CLOSER
	IM RELAY
	AREA OF RESCUE PNL
	WEATHER PROOF
	SOUND BASED
	SMOKE DETECTOR (DUCT MOUNTED)
	FIRE DAMPER



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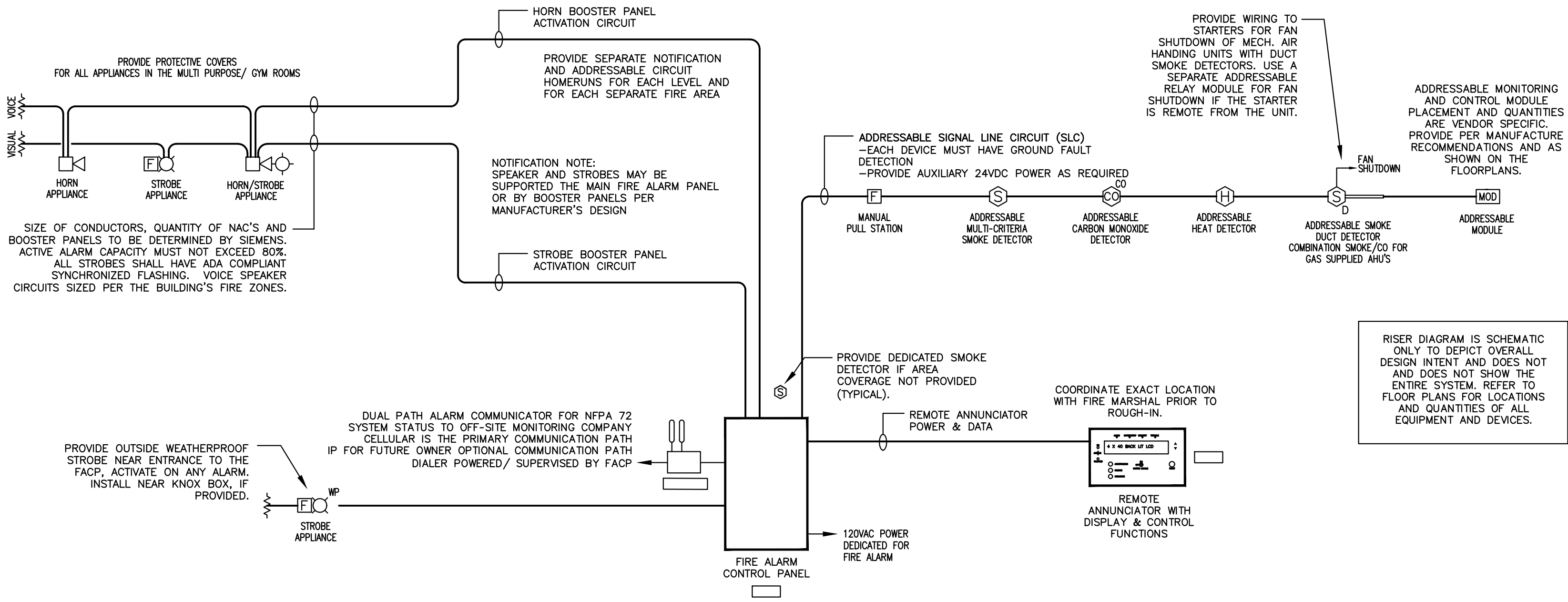


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FIRE ALARM NOTES, LEGEND, SYMBOLS & ABBREVIATIONS

FA0.00

Comission no. 250350



1 ADDRESSABLE FIRE ALARM WITH HORN NOTIFICATION RISER DIAGRAM
FA0.01 N.T.S.

- FIRE ALARM SYSTEM RISER NOTES:
- THIS RISER DIAGRAM IS BASED ON SIEMENS BUILDING TECHNOLOGIES HORN FIRE ALARM CONTROL PANEL. IT IS A REPRESENTATION OF THE INTENDED SYSTEM DESIGN FOR THIS PROJECT. SEE THE FLOOR PLANS FOR EXACT QUANTITIES AND LOCATIONS OF FIELD EQUIPMENT. SEE THE PROJECT SPECIFICATIONS FOR PERFORMANCE, CAPACITY AND CODE COMPLIANCE REQUIREMENTS. THIS DRAWING DEPICTS SCHEMATIC INTERCONNECTIONS OF WIRING. EXACT ROUTING OF CONDUITS AND WIRING SHALL BE DETERMINED IN THE FIELD BY THE INSTALLING CONTRACTOR TO SUIT FIELD CONDITIONS AND AS SUBMITTED IN THE SHOP DRAWINGS. ALL CHANGES SHALL BE CLEARLY INDICATED ON THE RECORD DRAWINGS. QUANTITY AND SIZE OF CONDUCTORS TO BE DETERMINED BY SIEMENS.
 - THE MAIN FIRE ALARM CONTROL PANEL WILL PROVIDE THE PRIMARY OPERATOR'S INTERFACE WITH LCD DISPLAY AND SWITCHES FOR COMPLETE SYSTEM ANNUNCIATION CONTROL IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. IT SHALL BE UL LISTED FOR MASS NOTIFICATION AND HAVE CAPABILITY TO PROVIDE AND SEND LOW LEVEL AUDIO SIGNALS.
 - PROVIDE AUXILIARY FIRE ALARM SIGNAL PANEL(S) W/ BATTERY BACKUP AS REQUIRED TO SUPPORT NOTIFICATION APPLIANCE LOADS, PER MANUFACTURER'S RECOMMENDATIONS. INSTALL A SMOKE DETECTOR WITHIN 5FT OF A NAC BOOSTER IF AREA COVERAGE NOT PROVIDED.
 - CONTROL UNITS, POWER SUPPLIES AND BATTERY CABINETS SHALL BE INSTALLED SO THAT WORKING CLEARANCES ARE MAINTAINED AROUND UNITS IN ACCORDANCE WITH NFPA 70 NATIONAL ELECTRIC CODE (NEC) AND MANUFACTURER'S ALLOWANCES. PANEL MOUNTING SHALL BE SUCH THAT ALL SWITCHES AND OPERATOR CONTROLS ARE NO LESS THAN 36 INCHES AND NO MORE THAN 72 INCHES ABOVE THE FINISHED FLOOR.
 - WIRING SHALL BE INSTALLED SO THAT EQUIPMENT CAN BE SERVICED OR REMOVED WITHOUT DISCONNECTING OR MOVING UNRELATED CIRCUITS. ALL WIRING WITHIN CONTROL UNITS, JUNCTION BOXES, AND TERMINAL CABINETS SHALL BE NEATLY TRIMMED, DRESSED, LABELED, AND INSTALLED IN GUTTERS OR CHANNELS. SEE SPECIFICATIONS FOR MAXIMUM ALLOWABLE CIRCUIT LOADING AND WIRE SIZE REQUIREMENTS. COORDINATE FINAL CIRCUIT QUANTITIES, AND CABLE TYPES WITH THE SYSTEM SUPPLIER'S SHOP DRAWINGS.
 - CONNECT PRIMARY 120VAC POWER TO 20A/1P CIRCUIT BREAKER DEDICATED FOR FIRE ALARM. SECONDARY POWER BATTERY BACKUP (STANDBY & ALARM) SHALL BE SIZED PER NFPA 72 REQUIREMENTS.
 - PANEL NETWORK WIRING, INCLUDING DATA COMMUNICATIONS AND AUDIO COMMUNICATIONS, SHALL BE WIRED CLASS X (FORMER CLASS A, STYLE 7) WITH SEPARATE OUTGOING AND RETURN LOOPS.
 - ADDRESSABLE DEVICE SLC'S SHALL BE NFPA 72 CLASS B. PROVIDE PROVIDE GROUND FAULT ISOLATION DETECTION BETWEEN EACH ADDRESSABLE DEVICE FOR ENHANCED SURVIVABILITY AND REDUCED TROUBLE SHOOTING TIME.
 - NOTIFICATION APPLIANCE NAC'S SHALL BE NFPA 72 CLASS B. INDIVIDUALLY ISOLATED SO THAT A SINGLE WIRING FAULT WILL NOT EFFECT THE OPERATION OF CIRCUIT(S) SERVING ANY OTHER FLOOR OR EVACUATION SIGNALING ZONE.
 - STROBE CANDELAS AND HORN WATT TAP SETTINGS MUST BE SIZED PER NFPA 72 REQUIREMENTS BY THE FIRE ALARM VENDOR AND SHOWN ON THE SHOP DRAWINGS.
 - A COMPLETE SET FOR FIRE ALARM PRODUCT CUTSHEETS, FIRE ALARM INSTALLATION SHOP DRAWINGS, AND BATTERY/ VOLTAGE/ LOAD CALCULATIONS MUST BE SUBMITTED AND APPROVED PRIOR TO INSTALLATION.
 - THE OFF-SITE COMMUNICATOR SHALL PROVIDE GENERAL (ALARM TROUBLE/ SUPERVISORY) AND ABILITY FOR CONTACT/ GROUPED EVENT ID REPORTING PATHS WHICH INCLUDE: CELLULAR ONLY, IP ONLY, OR IP PRIMARY/CELLULAR BACKUP. FOR THIS PROJECT, UTILIZE CELLULAR COMMUNICATIONS AS THE PRIMARY MEANS OF COMMUNICATION, PER NFPA 72 REQUIREMENTS. IF COMMUNICATIONS FOR OWNER SELECTED/PROVIDED FUTURE OPTION, THE COMMUNICATOR SHALL RECEIVE ITS POWER AND SUPERVISION FROM THE FACP AND BE SUPPLIED WITH A LOCAL CELLULAR ANTENNA. WHEN THE MINIMUM CELLULAR SIGNAL STRENGTH PER THE MANUFACTURE'S INSTALLATION INSTRUCTIONS CANNOT BE MET, PROVIDE AN EXTERNAL ANTENNA LOCATED AND INSTALLED PER FIELD CONDITIONS, WITH THE OWNERS APPROVAL.
 - COORDINATE EXACT DEVICE LOCATIONS AND BACKBOX/MOUNTING REQUIREMENTS WITH THE ARCHITECTURAL ELEVATIONS, MANUFACTURER'S INSTALLATION INSTRUCTIONS, THE SYSTEM SUPPLIER'S SHOP DRAWINGS, AND THE WORK OF RELATED TRADES. INSTALL ALL CEILING-MOUNTED EQUIPMENT IN THE CENTER OF A LAY-IN TILE.



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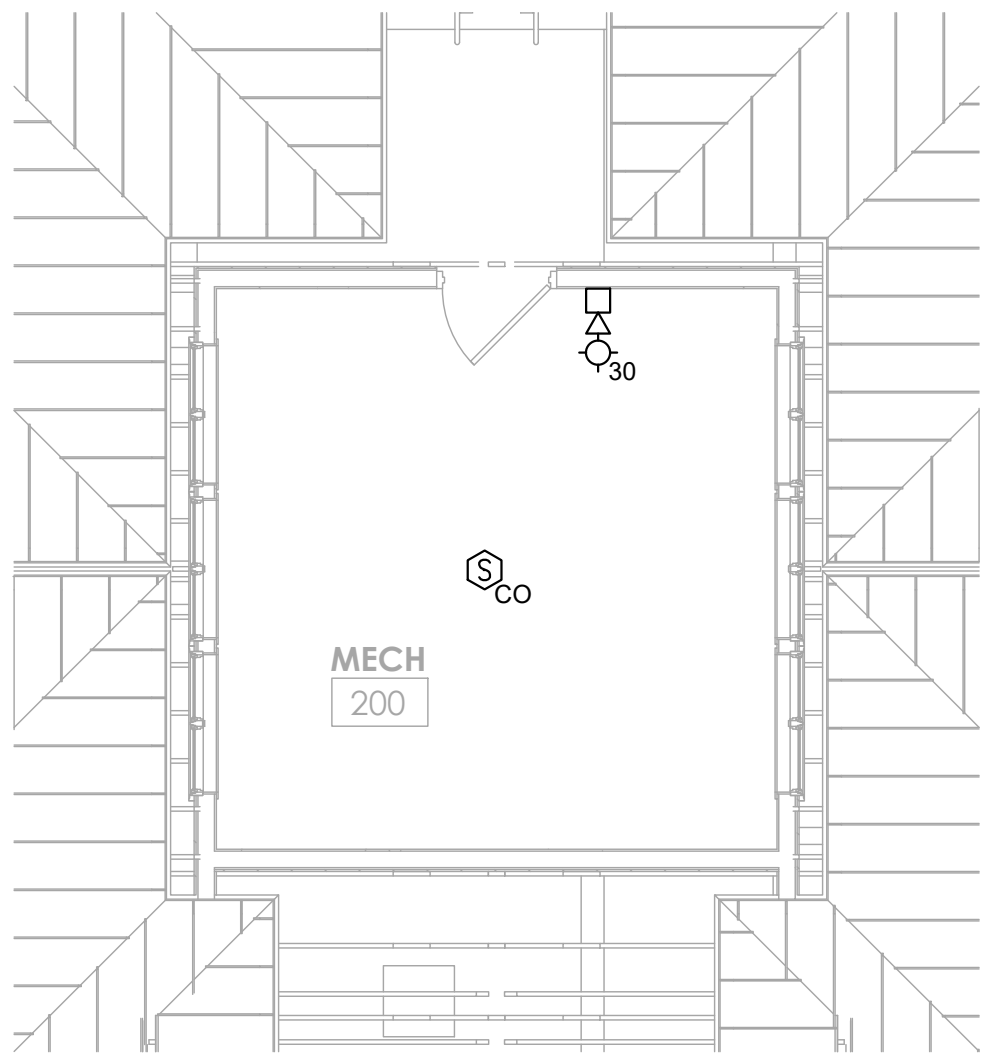
No.	Description	Date
	PERMIT ISSUE	09.11.2026

FIRE ALARM DETAILS

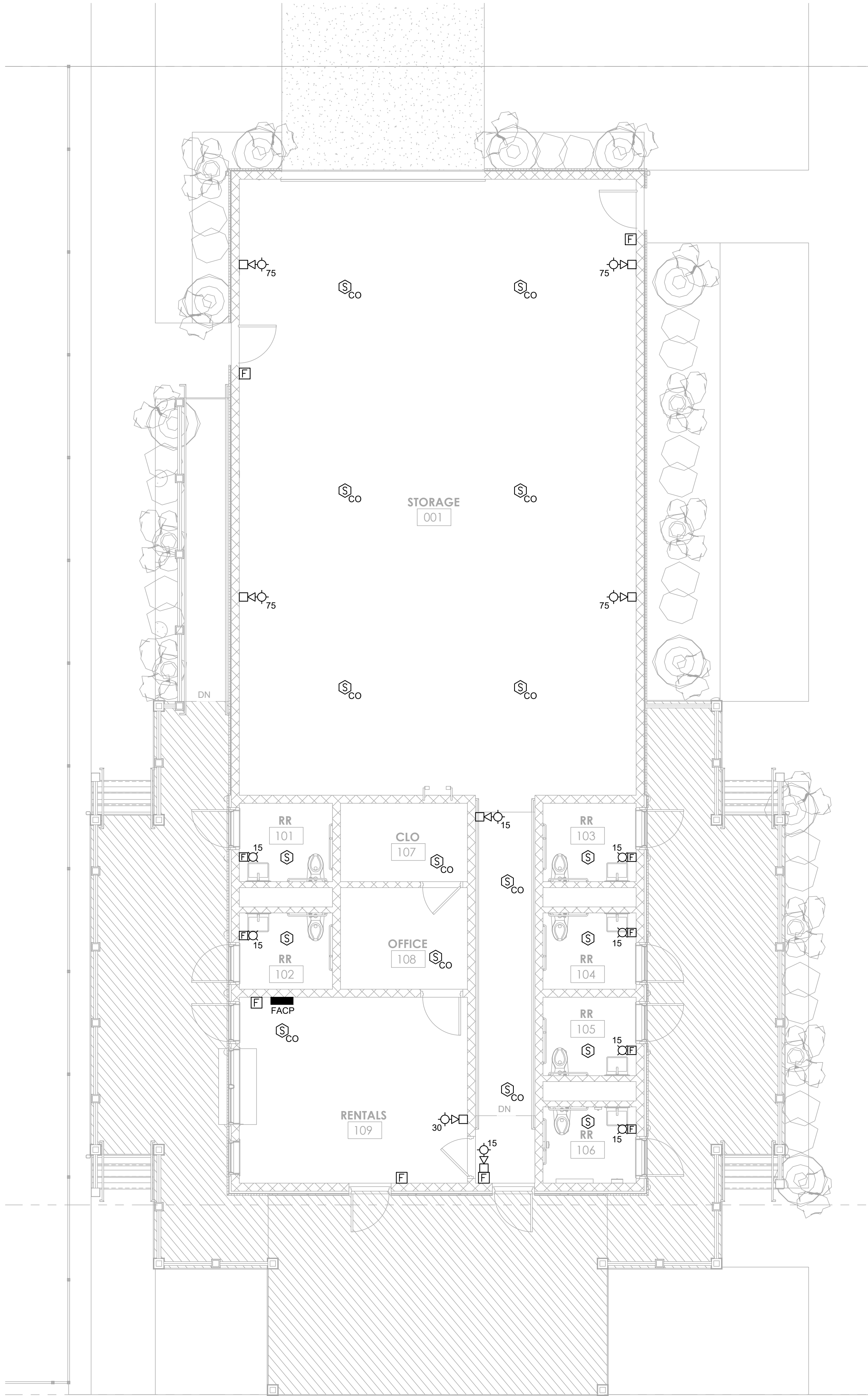
Scale AS NOTED
Drawn by BP
Date 09.11.2026

FA0.01

Comission no. 250350



2 FIRE ALARM MECH PLAN – GARAGE
FA1.01 SCALE: 3/16" = 1'-0"
SCALE BAR: 3/16"=1'-0"



1 FIRE ALARM FIRST FLOOR PLAN – GARAGE
FA1.01 SCALE: 3/16" = 1'-0"
SCALE BAR: 3/16"=1'-0"

FIRE ALARM SYSTEM NOTES:

GENERAL NOTES:

- THE FIRE ALARM DESIGN AS SHOWN IS A PROTOTYPE DESIGN PROVIDED AS A BASIS OF DESIGN FOR BID PURPOSES ONLY. FIRE ALARM SYSTEM DESIGN IS DELEGATED DESIGN BY THE CONTRACTOR (FIRE ALARM VENDOR). PREPARE AND SUBMIT SIGNED AND SEALED DRAWINGS BY A REGISTERED NEW JERSEY PROFESSIONAL ENGINEER. SUBMIT FOR REVIEW TO THE PROJECT ENGINEER, ARCHITECT AND APPROVING LOCAL AUTHORITY PRIOR TO WORK BEING PERFORMED.
- ALL WIRING SHALL COMPLY WITH PROJECT SPECIFICATIONS, NFPA 72, NEC ARTICLE 760, AND THE REQUIREMENTS OF THE AHJ. NO FIRE ALARM POWER-LIMITED WIRING SHALL BE PERMITTED IN THE SAME RACEWAY AS NO POWER-LIMITED UNLESS SEPARATED BY AN APPROVED BARRIER.
- FOR CONDUIT APPLICATIONS, USE ELECTRICAL METALLIC TUBING (EMT), 3/4" MINIMUM.
- ALL CONDUITS, CONDUCTORS, RACEWAYS, EQUIPMENT, ETC., SHALL BE SUPPORTED IN AN APPROVED MANNER BY THE BUILDING STRUCTURE, INCLUDING HANGERS AND RESTRAINTS, IN ACCORDANCE WITH ALL APPLICABLE CODES REQUIREMENTS. NO A.C. CARRYING CONDUCTORS ARE ALLOWED TO SHARE RACEWAYS WITH THE FIRE ALARM SYSTEM WIRING.
- ALL FIRE RATED PENETRATIONS SHALL BE MADE WITH A UL APPROVED FIRE STOP MATERIAL OR METHOD.
- SEAL ALL PENETRATIONS THROUGH EXTERIOR WALLS, FLOORS, AND ROOFS WITH WATERTIGHT MATERIAL.
- FURNISH AND INSTALL ACCESS PANELS WHERE REQUIRED FOR ACCESS TO CONCEALED EQUIPMENT WHERE NO OTHER MEANS IS PROVIDED. ALL DEVICES SHALL BE INSTALLED IN A MANNER THAT PROVIDES ACCESSIBILITY FOR PERIODIC MAINTENANCE. PER NFPA 72 2013 REQUIREMENTS
- ADDRESSABLE CONTROL RELAYS MUST BE WITHIN 3 FEET OF DEVICE IT IS TO CONTROL. PER NFPA 72, 3.9.2.
- MOUNTING FOR ALL DEVICES AND APPLIANCES SHALL COMPLY WITH STATE, LOCAL, AND ADAAG.
- 110VAC CIRCUIT FEEDING FIRE ALARM CONTROL PANELS AND ASSOCIATED EQUIPMENT SHALL BE EQUIPPED WITH BREAKER LOCK, BE PERMANENTLY MARKED IN RED COLOR AND IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL" OR APPROPRIATE IDENTIFICATION IN ACCORDANCE WITH NFPA 72A REQUIREMENTS. THE LOCATION OF THE SERVING CIRCUIT BREAKER SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL PANEL.
- SMOKE AND/OR HEAT DETECTORS SHALL BE MOUNTED ON THE CEILING, UNLESS NOTED OTHERWISE. IT SHALL NOT BE PERMISSIBLE TO INSTALL DETECTORS ON THE BOTTOM OF OPEN WEB JOISTS, OR ANY BEAM EXCEEDING 12 INCHES IN DEPTH FROM CEILING. ALL SMOKE DETECTORS SHALL BE LOCATED 3 OR MORE FEET FROM ANY SUPPLY OR RETURN AIR REGISTER AND A MINIMUM OF 1 FOOT AWAY FROM ANY LIGHTING FIXTURE.
- CONTRACTOR SHALL REPAIR/PATCH AND/OR REPAINT TO MATCH ADJACENT AREAS. ANY AREAS DAMAGED (OR WHERE ITEMS WERE REMOVED/DEMOLISHED) BY WORK OF THIS CONTRACT.
- THE FIRE ALARM VENDOR MUST CALCULATE THE NOTIFICATION APPLIANCES CANDELA RATINGS AND DESIGNATE THEM ON THE SHOP DRAWINGS. ALL STROBE SETTING MUST COMPLY WITH NFPA 72 REQUIREMENTS.
- SMOKE AND/OR HEAT DETECTORS SHALL BE MOUNTED ON THE CEILING, UNLESS NOTED OTHERWISE. IT SHALL NOT BE PERMISSIBLE TO INSTALL DETECTORS ON THE BOTTOM OF OPEN WEB JOISTS, OR ANY BEAM EXCEEDING 12 INCHES IN DEPTH FROM CEILING. ALL SMOKE DETECTORS SHALL BE LOCATED 3 OR MORE FEET FROM ANY SUPPLY OR RETURN AIR REGISTER AND A MINIMUM OF 1 FOOT AWAY FROM ANY LIGHTING FIXTURE.
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- THE FIRE ALARM VENDOR MUST CALCULATE THE NOTIFICATION APPLIANCES CANDELA RATINGS AND DESIGNATE THEM ON THE SHOP DRAWINGS. ALL STROBE SETTING MUST COMPLY WITH NFPA 72 REQUIREMENTS.
- EACH AIR HANDLING SYSTEM 2000 CFM OR GREATER SHALL BE EQUIPPED WITH A SUPPLY DUCT DETECTOR. EACH AIR HANDLING SYSTEM GREATER THAN 15,000 CFM SHALL BE EQUIPPED WITH A SUPPLY AND RETURN DUCT DETECTOR. WHEN THE AIR HANDLER SUPPLIES MORE THAN ONE STORY, RETURN DUCT DETECTORS ARE NOT REQUIRED. WHERE THE ENTIRE SPACE SERVED BY THE AIR HANDLER IS PROTECTED BY SYSTEM SMOKE DETECTORS, DUCT DETECTORS ARE NOT REQUIRED ON 100% EXHAUST FANS.
- ALL WORK AND SHUTDOWNS ASSOCIATED WITH FIRE ALARM SYSTEM INTERFACES SHALL BE COORDINATED THROUGH THE RESPECTIVE CONTRACTOR, INCLUDING BUT NOT LIMITED TO: SPECIAL HAZARD SUPPRESSION SYSTEM(S), AUTOMATIC SPRINKLER SYSTEM(S), HVAC SYSTEM(S), ELEVATOR SYSTEM(S), AND SECURITY/ACCESS CONTROL SYSTEM(S).
- SYSTEM MANUFACTURER SHALL COORDINATE FINAL QUANTITIES AND LOCATIONS OF ALL SYSTEM MONITOR AND CONTROL MODULES WITH THE RESPECTIVE CONTRACTORS FOR INTERFACE. FINAL LOCATIONS TO BE SHOWN ON SHOP DRAWINGS. CHECK AND VERIFY CONDITIONS AT THE SITE WITHIN THE CONTRACT LIMITS. THE INSTALLATION CONTRACTOR IS RESPONSIBLE FOR ALL FIELD MEASUREMENTS AND VERIFICATION OF FIELD CONDITIONS PRIOR TO COMMENCING WORK. ANY CHANGES IN WORK NECESSITATED BY FAILURE OF THIS CONTRACTOR TO COMPLY WITH THIS PROCEDURE SHALL BE UNDERTAKEN BY THIS CONTRACTOR AT HIS/HER OWN EXPENSE.
- THE INSTALLATION CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE FIRE ALARM SHOP DRAWING SUBMITTAL FOR COMPLETE COMPLIANCE WITH THE FULL SET OF BID DOCUMENTS PRIOR TO SUBMITTING TO THE ENGINEER FOR APPROVAL.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL WIRING TO ENSURE THAT CIRCUITS ARE FREE AND CLEAR OF GROUNDS AND THE PROPER END OF LINE RESISTANCE IS READ. ACCEPTANCE TESTING MUST BE PERFORMED IN ACCORDANCE WITH NFPA 72 AND AHJ REQUIREMENTS.
- THE CONTRACTOR IS RESPONSIBLE FOR LABELING ALL PERIPHERAL DEVICES WITH THE UNIQUE IDENTIFICATION NUMBER SHOWN ON THE REQUIRED SUBMITTAL DRAWINGS. LABELS TO BE SIMILAR TO BROTHER P-TOUCH® BLACK LETTERING ON WHITE BACKGROUND, SELF-ADHESIVE TAPE. DEVICE LABELS SHALL BE INSTALLED PRIOR TO SYSTEM CHECKOUT.
- UPON COMPLETION OF FINAL TESTING AND APPROVAL OF THE AHJ, THE SYSTEM VENDOR SHALL SUBMIT RECORD DRAWINGS TO THE OWNER. DETAILING AS-BUILT CIRCUITING AS SHOWN ON THE INSTALLER'S RED-LINE MARKUPS. THEY SHALL INCORPORATE ALL FIELD AND DESIGN DIRECTIVES GIVEN THROUGH OUT THE PROJECT.

NOTIFICATION APPLIANCE CIRCUIT (NAC) BOOSTER PANELS:

- PROVIDE NAC POWER SUPPLIES THROUGHOUT THE BUILDING, AS REQUIRED, TO PROVIDE POWER FOR THE AUDIBLE/VISUAL APPLIANCES AND TO REDUCE VOLTAGE DROP ON NACS. PROVIDE A DEDICATED 120 VAC, 20-AMP BRANCH CIRCUIT FROM THE NEAREST POWER PANEL TO POWER THE NAC POWER SUPPLY. LOCATE NAC POWER SUPPLIES IN ACCESSIBLE LOCATIONS FOR MAINTAINING THE PANELS, PREFERABLY IN EQUIPMENT CHASES AND ELECTRICAL CLOSETS OR ROOMS. PROVIDE AN ADDRESSABLE SIGNAL MODULE TO ACTIVATE THE NAC POWER SUPPLY OUTPUTS DURING AN ALARM AND A MONITOR MODULE TO MONITOR THE PANEL COMMON TROUBLE OUTPUT. PROVIDE A SMOKE DETECTOR AT EACH NAC PANEL IN ACCORDANCE WITH NFPA REQUIREMENTS.



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NEW CONSTRUCTION
34TH STREET
SANDCASTLE PARK
OPERATIONS
BUILDING

BLOCK 3403, LOTS 1 & 2
CITY OF OCEAN CITY
CAPE MAY COUNTY
NEW JERSEY
08226

No.	Description	Date
	PERMIT ISSUE	09.11.2026

FIRE ALARM NEW
WORK PLAN

Scale	AS NOTED
Drawn by	BP
Date	09.11.2026
Comission no.	250350

FA1.01