

Rhode Island College New Support Building & Walkway

Bid Set

November 5, 2025

Rhode Island College
600 Mount Pleasant Avenue
Providence, RI 02908



SITE VICINITY MAP
N.T.S.

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CHA

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272 West Exchange Street, Suite 101
Providence, RI 02903
800.206.2412
www.chasolutions.com

INCA

NORTHEAST
COLLABORATIVE
ARCHITECTS

650 Ten Rod Road, Box 4
North Kingstown, RI 02852
v. 401.846.9563

RHODE ISLAND COLLEGE

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600 Mount Pleasant Ave.
Providence, RI 02908

IF A CONSULTANT LIAISON HAS BEEN PROVIDED, THE CONSULTANT SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PROJECT. THE CONSULTANT SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PROJECT. THE CONSULTANT SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PROJECT.

NEW
SUPPORT BUILDING
& WALKWAY

No.	Submittal / Revision	Appr	By	Date

BIDDING DOCUMENT MSM/CAC 11/5/25

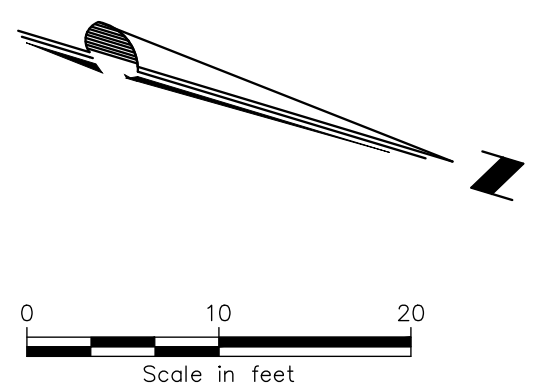
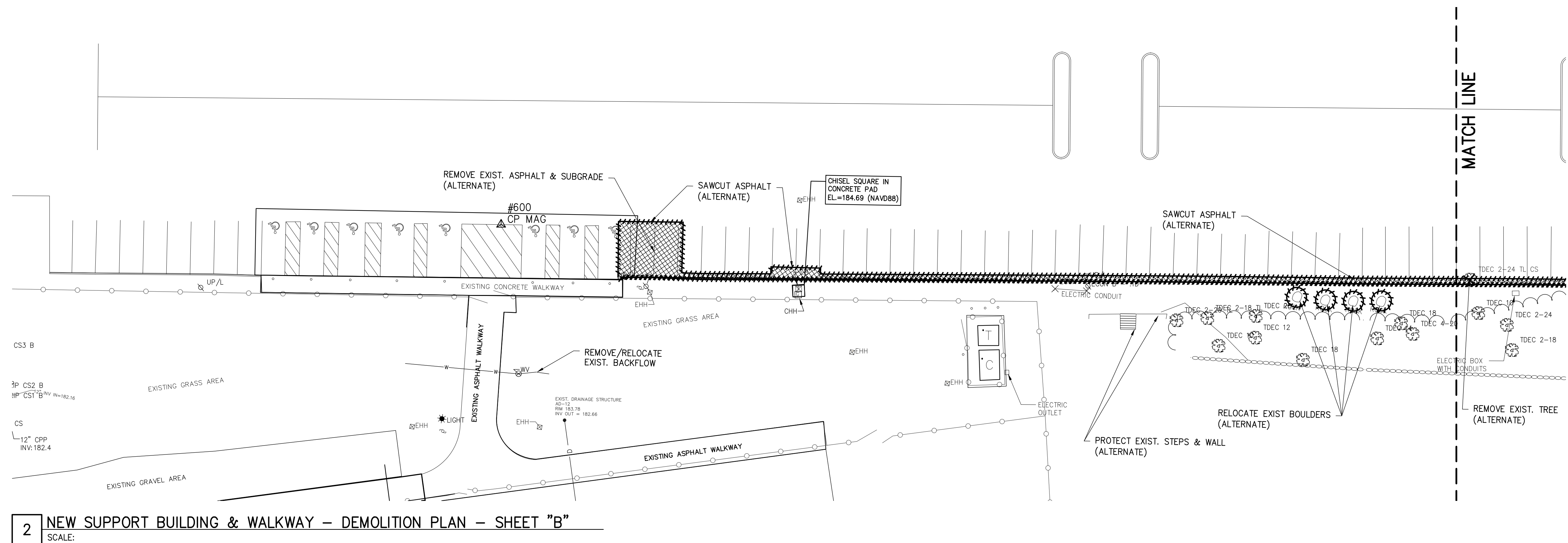
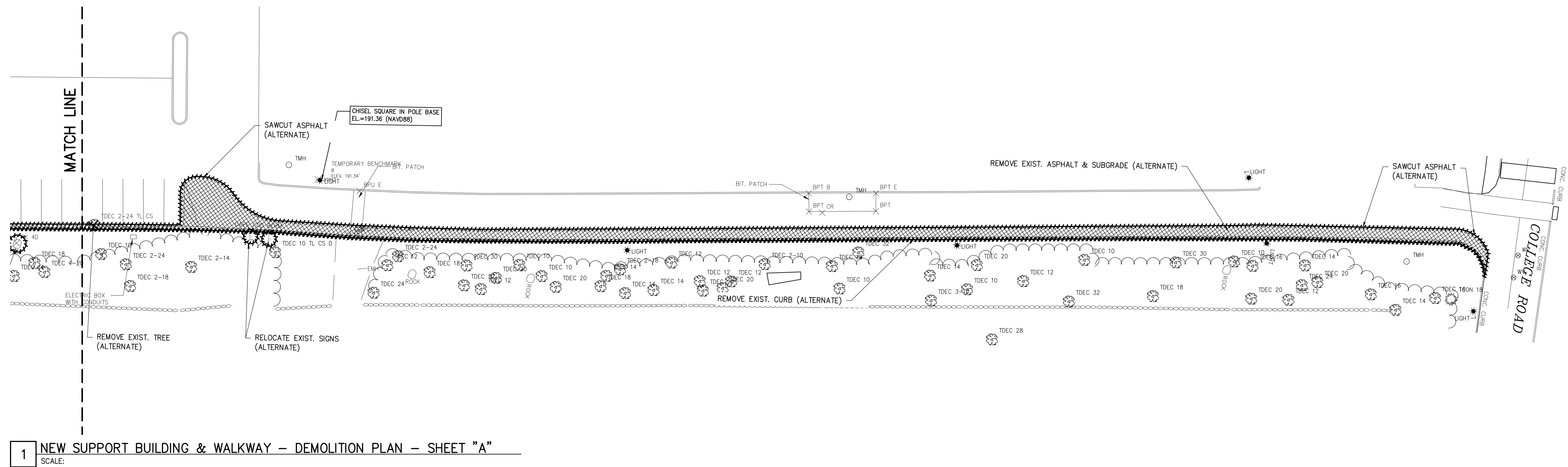
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Designed By: MSM	Drawn By: CAC	Checked By: MSM
Issue Date: 09/26/25	Project No.: 090475	Scale: AS SHOWN

Drawing No.:
G-000

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5. PLAN REFERENCES:
LAYOUT PLANS L-4516, L-8470, L-8491 & L-8763.



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IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE
ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL,
TO REPRODUCE, ADAPT, OR TRANSMIT THE CONTENTS OF THIS
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NEW
SUPPORT BUILDING
& WALKWAY

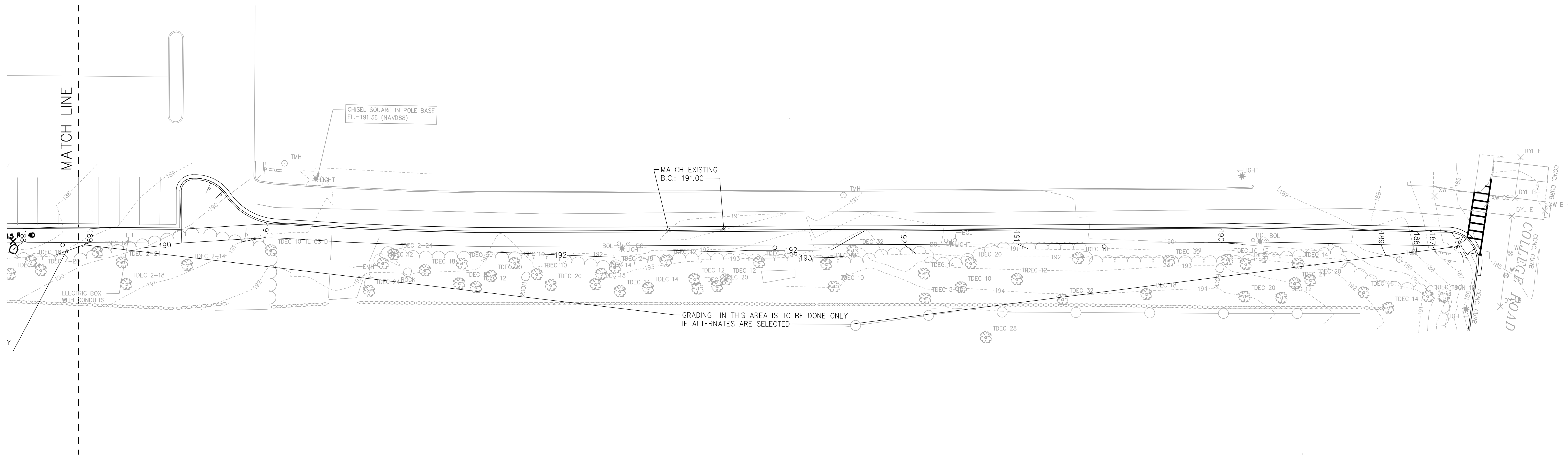
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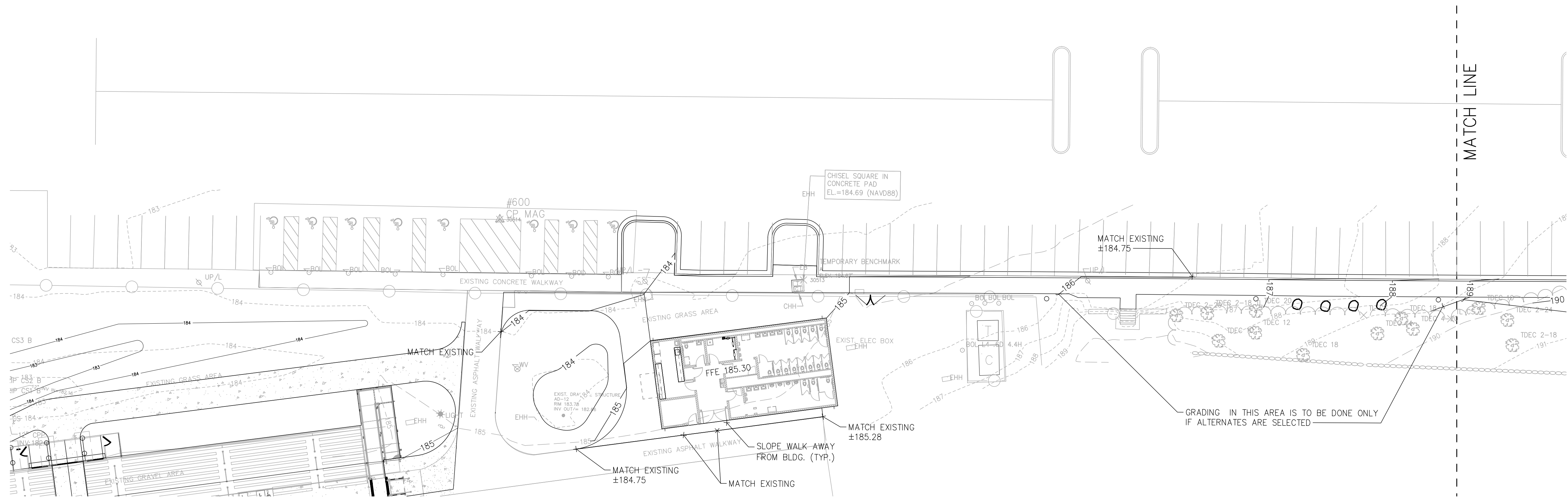
DEMOLITION PLAN

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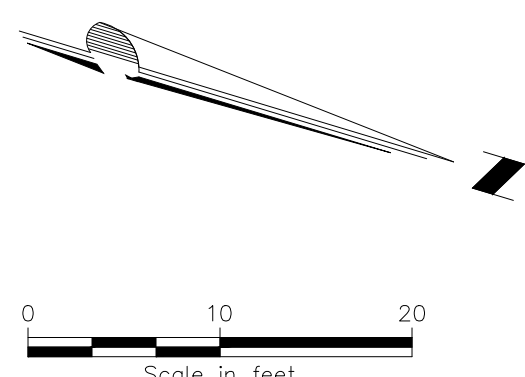
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C-050



1 NEW SUPPORT BUILDING & WALKWAY – GRADING PLAN– SHEET "A"
SCALE:



2 NEW SUPPORT BUILDING & WALKWAY – GRADING PLAN – SHEET "B"
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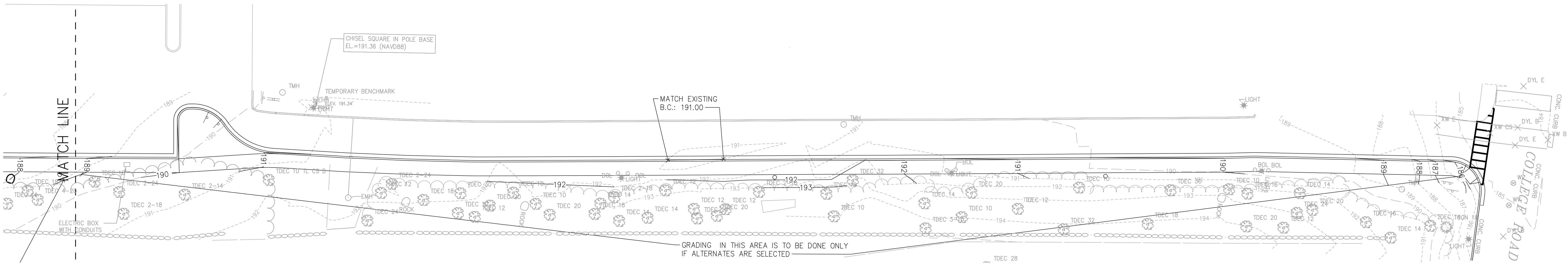


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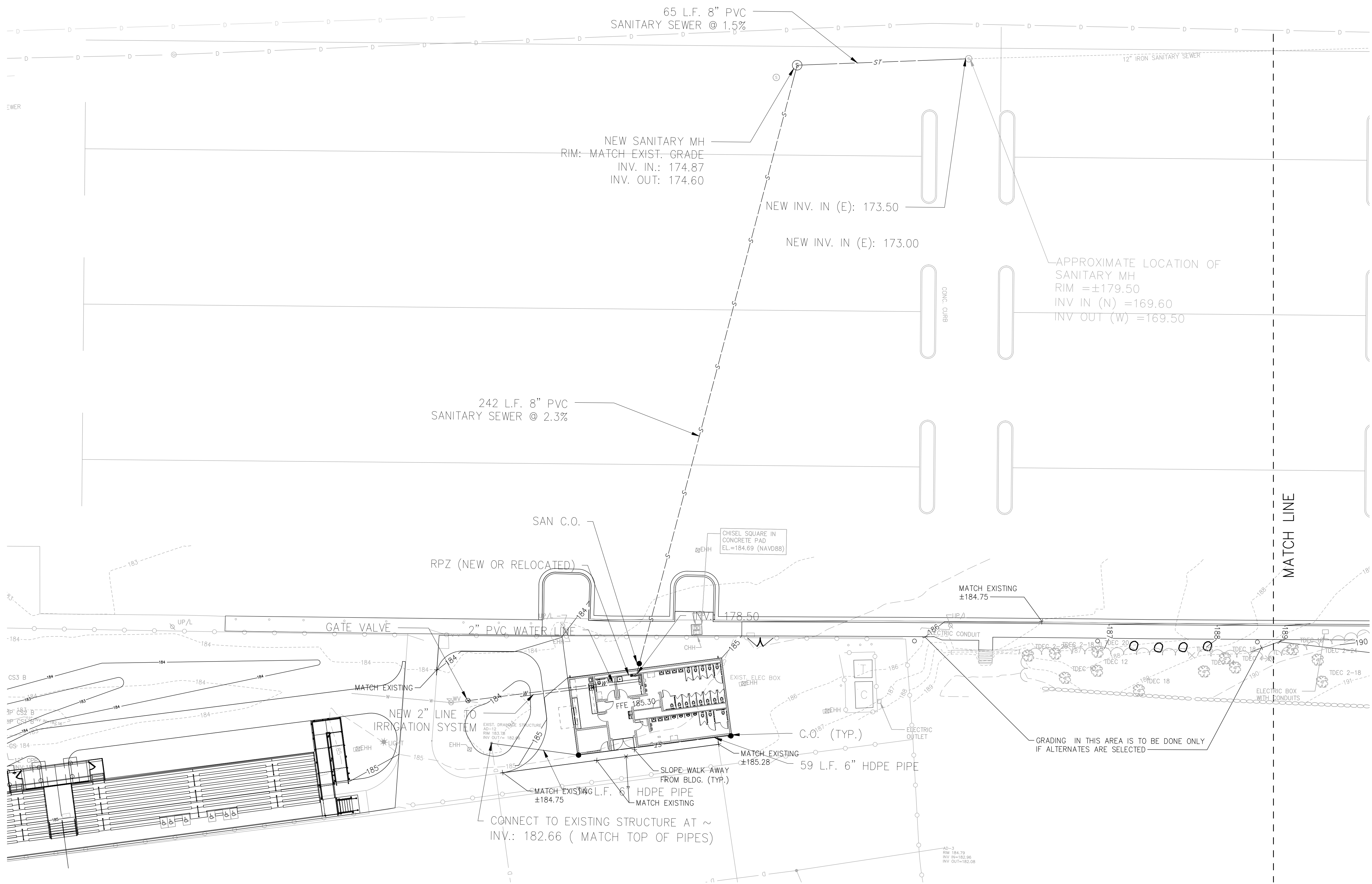
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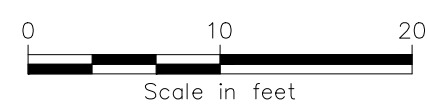
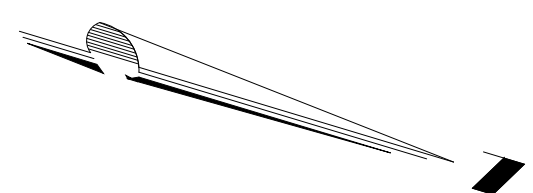
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1 NEW SUPPORT BUILDING & WALKWAY - UTILITY & DRAINAGE PLAN- SHEET "A"
SCALE:



2 NEW SUPPORT BUILDING & WALKWAY - UTILITY & DRAINAGE PLAN - SHEET "B"
SCALE:



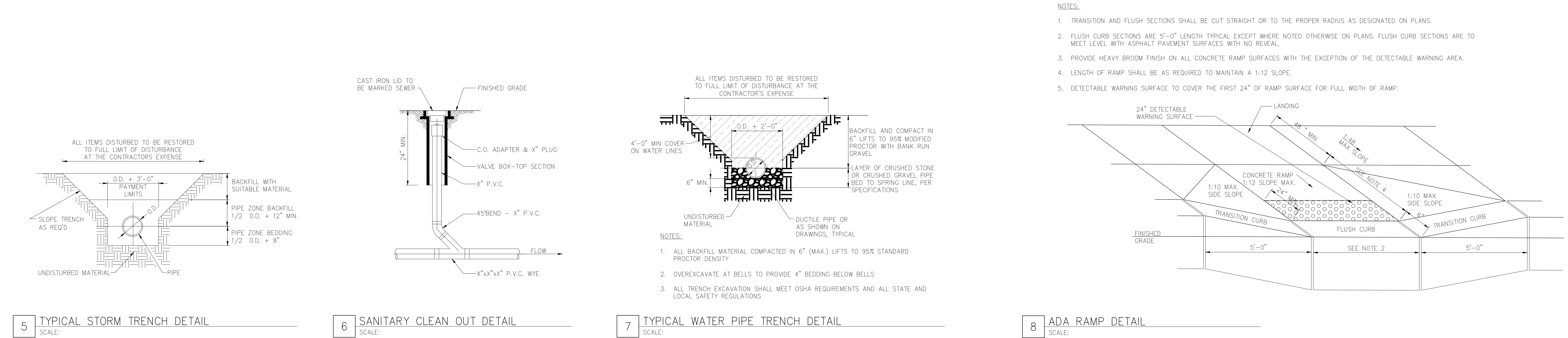
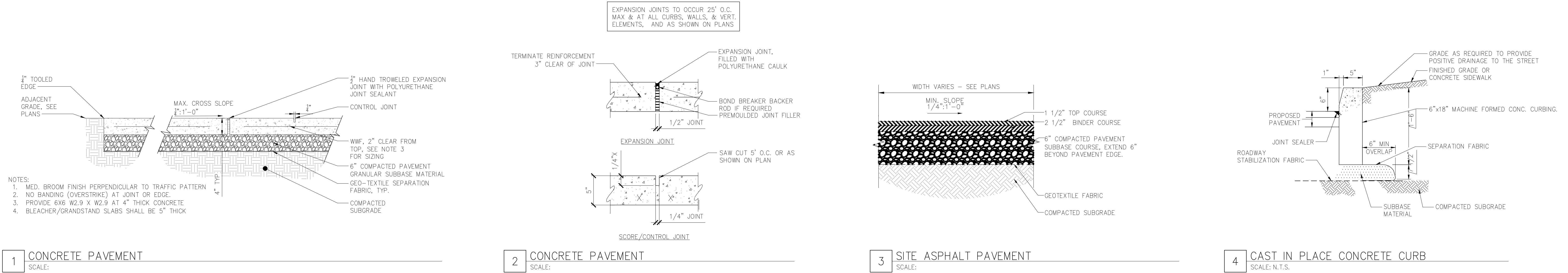
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DRAINAGE & UTILITY
PLAN

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Issue Date: 09/26/25	Project No.: 090475	Scale: AS SHOWN

Drawing No.:
C-300

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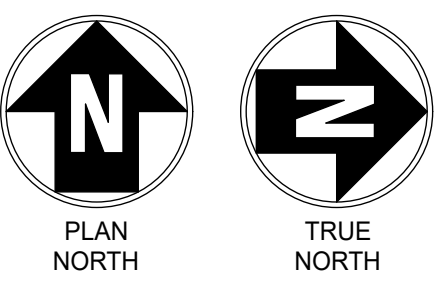
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DETAILS

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C-600



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED. THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

RHODE ISLAND COLLEGE-
TRACK SUPPORT
BUILDING

No.	Submission / Revision	App'd.	By	Date
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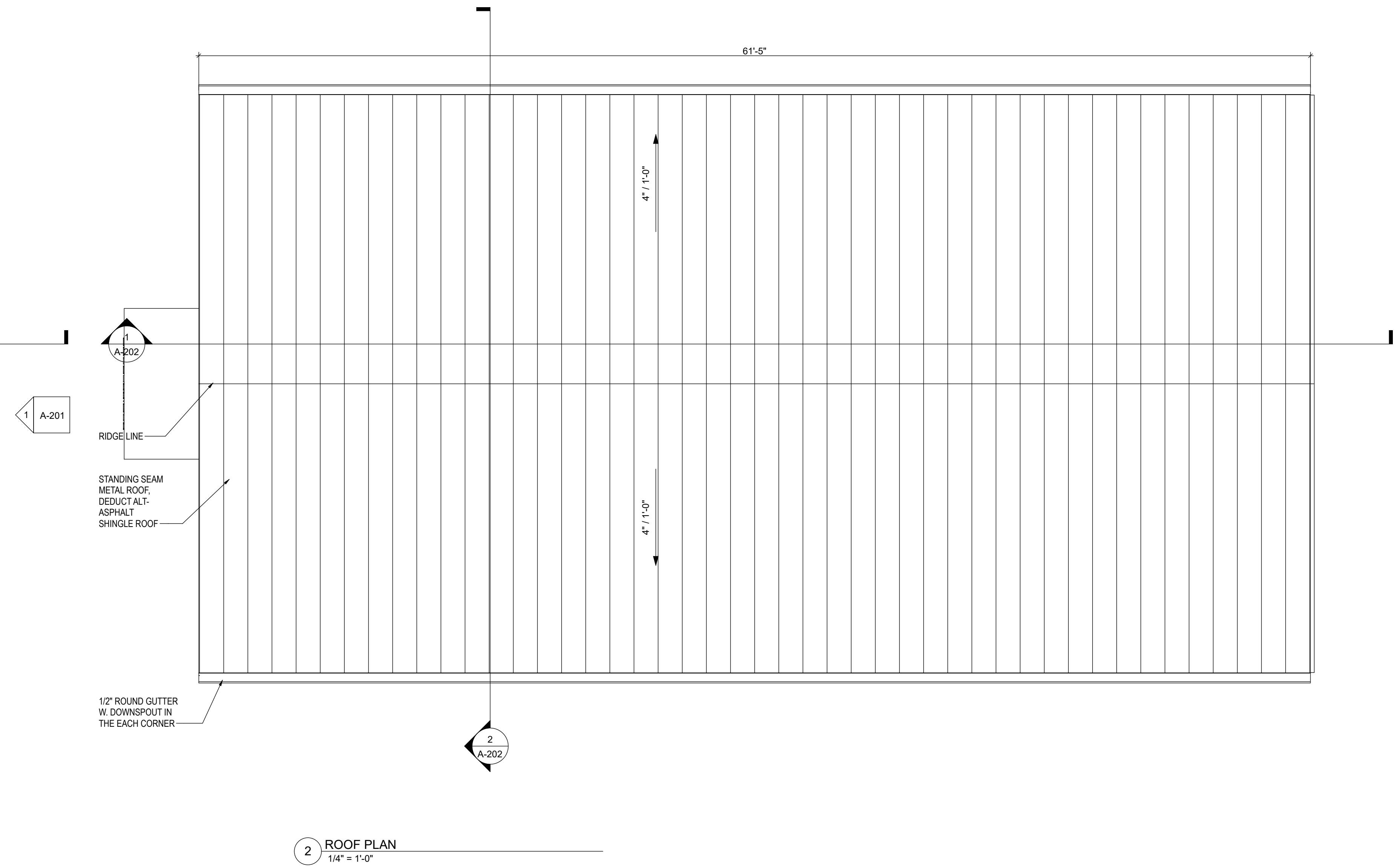
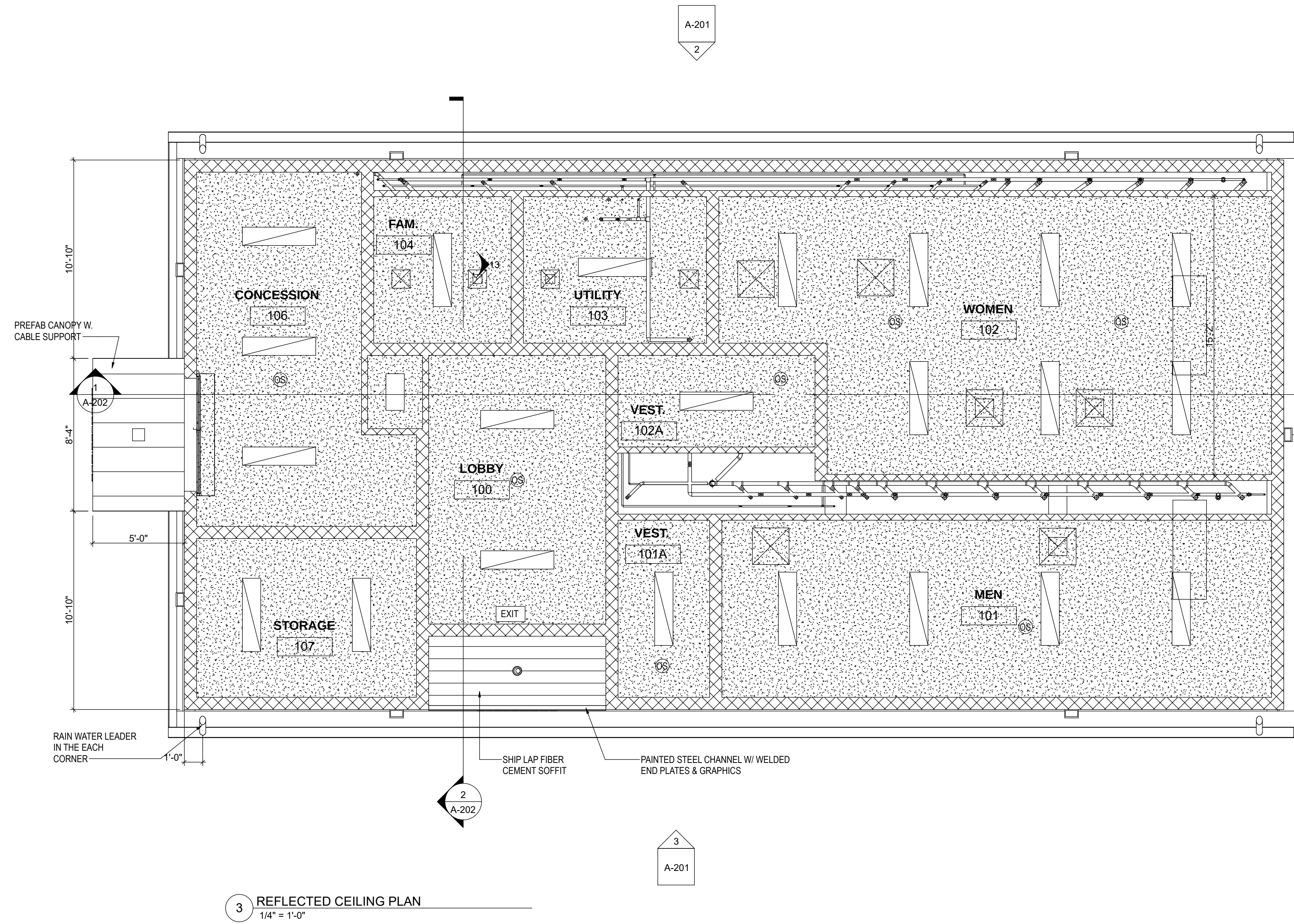
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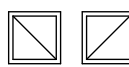
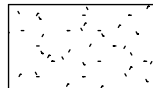
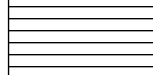
FLOOR PLANS

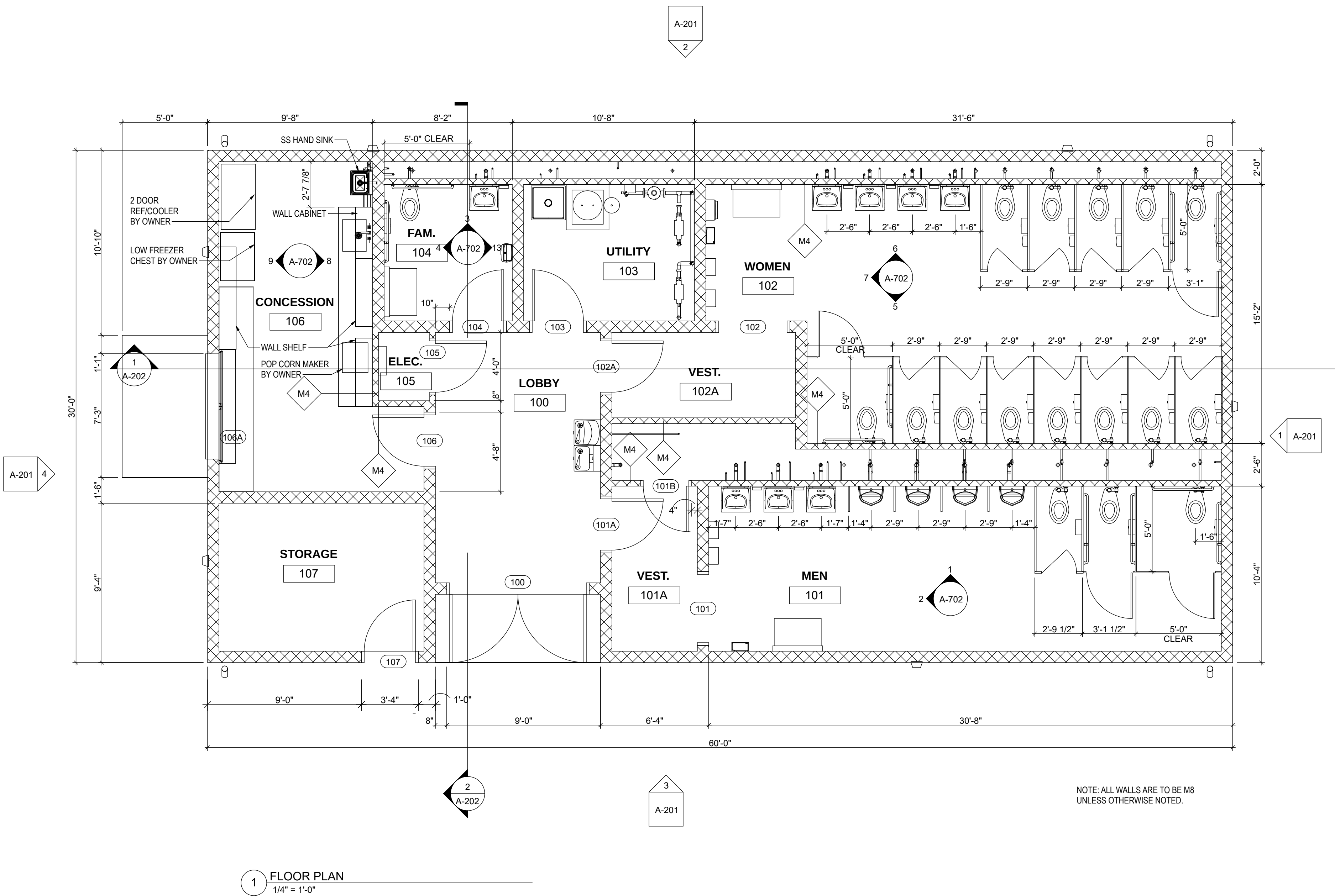
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Issue Date: 10/15/2025	Project No: 090475	Scale: AS SHOWN

Drawing No:

A-101



RCP LEGEND	
NOTES: 1 MECHANICAL, ELECTRICAL, AND FIRE PROTECTION ITEMS SHOWN FOR COORDINATION PURPOSES ONLY. 2 REFER TO MEP PLANS FOR CEILING EQUIPMENT LOCATIONS & SIZES. 3 SEE FINISH SCHEDULE FOR CEILING TYPES & FINISHES 4. ALL SPRINKLERS HEADS SHALL BE CENTERED IN CEILING TILES (TYP) 5. SEE EXXX FOR LIGHT FIXTURE SCHEDULE 6. ACCESS PANELS TO BE INSTALLED IN ALL HARD CEILINGS ADJACENT TO ALL CEILING MOUNTED VALVES & HVAC EQUIPMENT REQUIRING MAINTENANCE. LOCATIONS SHALL BE COORDINATED AS PART OF COORDINATED DRAWING PROCESS.	
	SUPPLY DIFFUSER
	RETURN GRILL
	DAFS: DIRECT APPLIED FINISH SYSTEM
	FIBER CEMENT SOFFIT
	6" DIA. RECESSED CANNED LIGHT
	4" SURFACE MOUNTED LINEAR LED LIGHT
	2" SURFACE MOUNTED LINEAR LED LIGHT
	CEILING MOUNTED EXIT SIGN



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RHODE ISLAND COLLEGE-
TRACK SUPPORT
BUILDING

No.	Submittal / Revision	App'd.	By	Date
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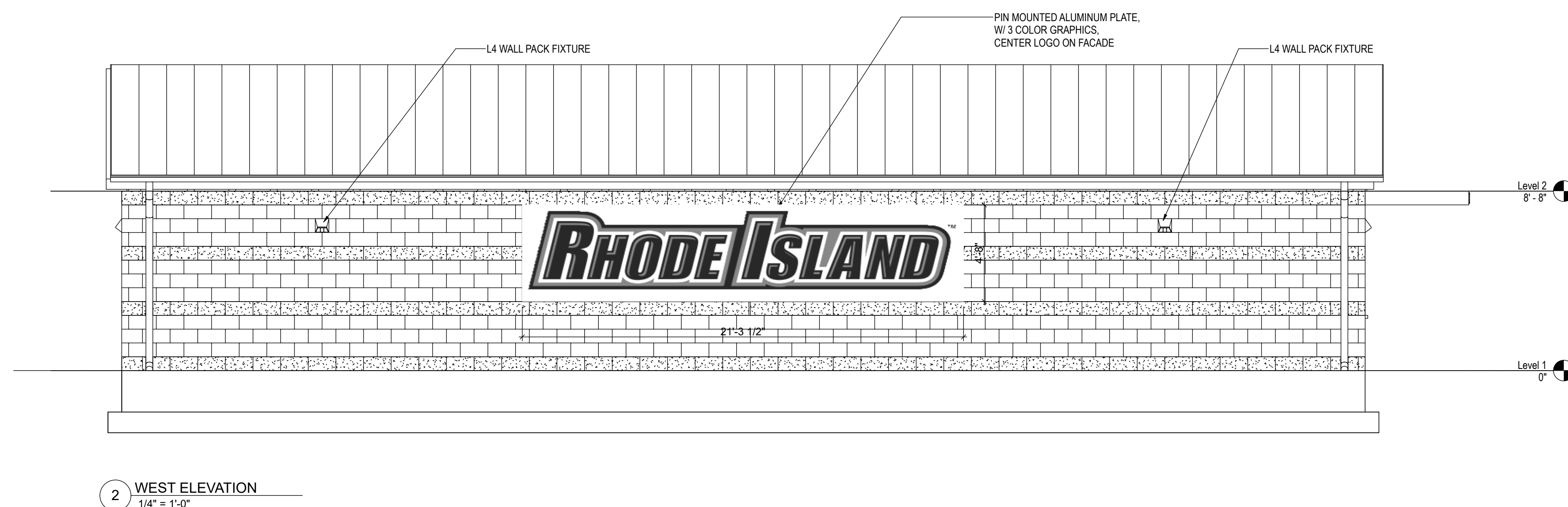
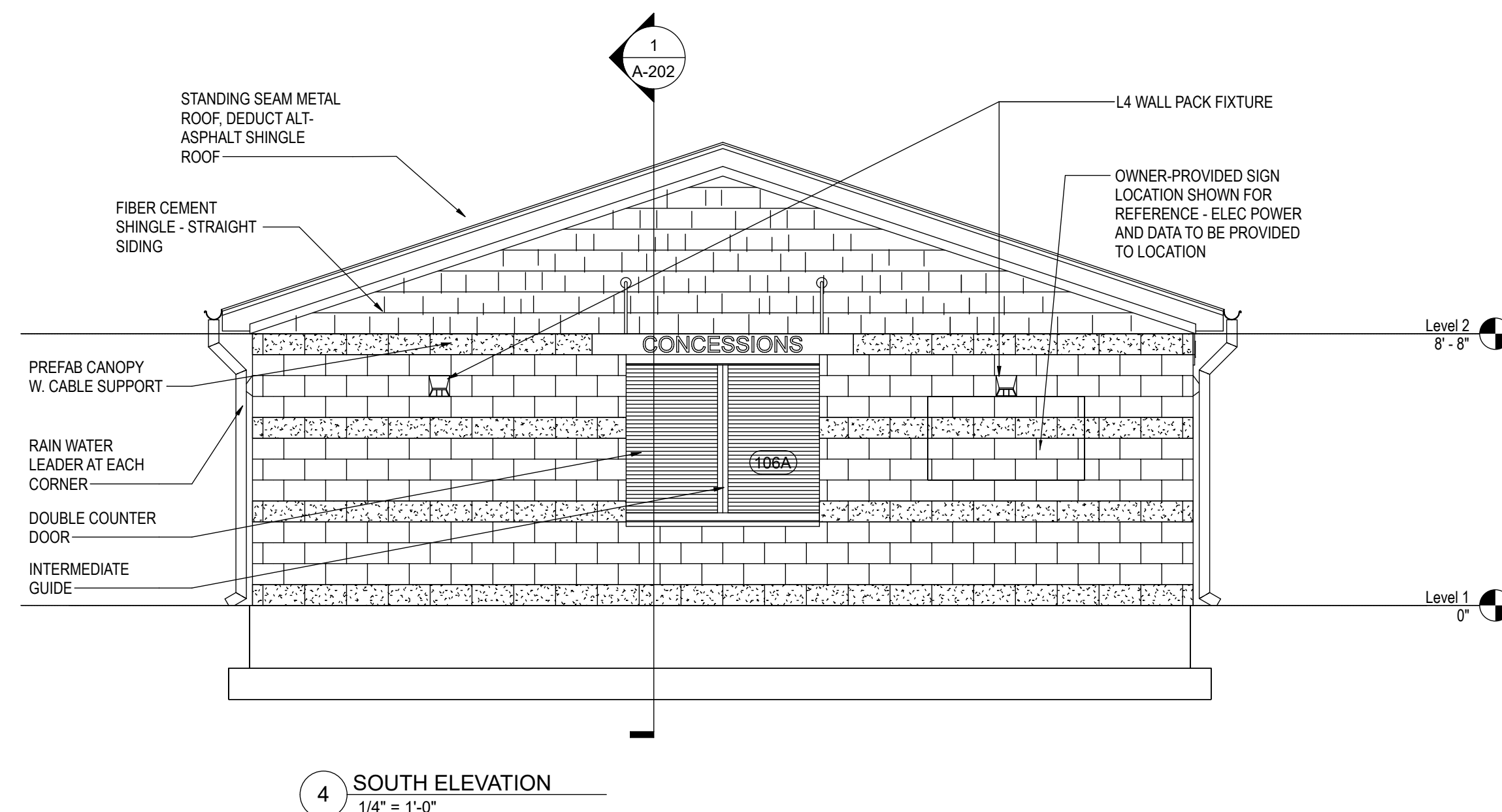
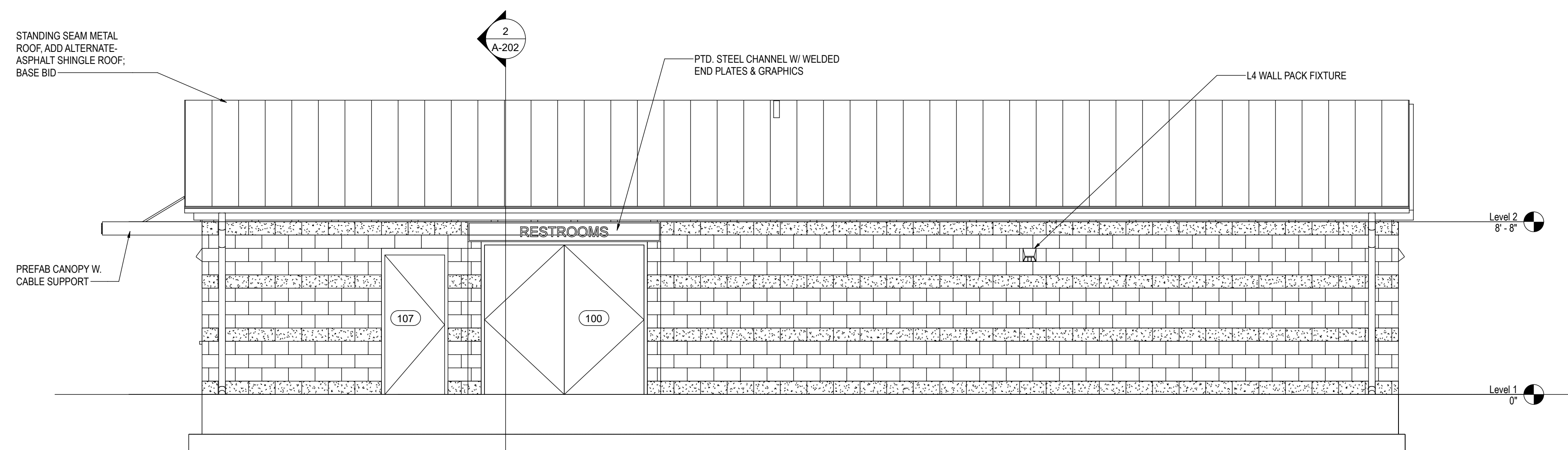
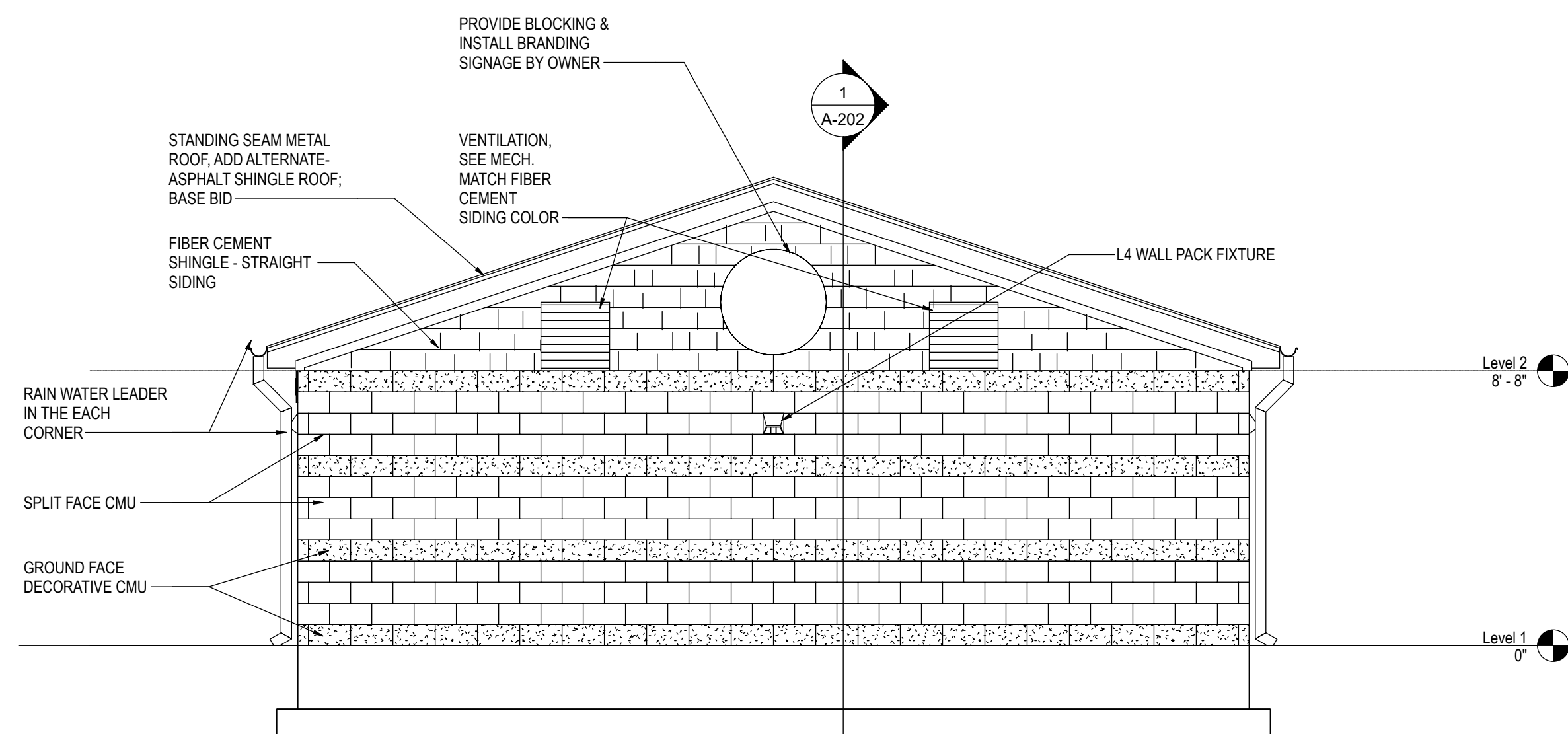
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EXTERIOR ELEVATIONS

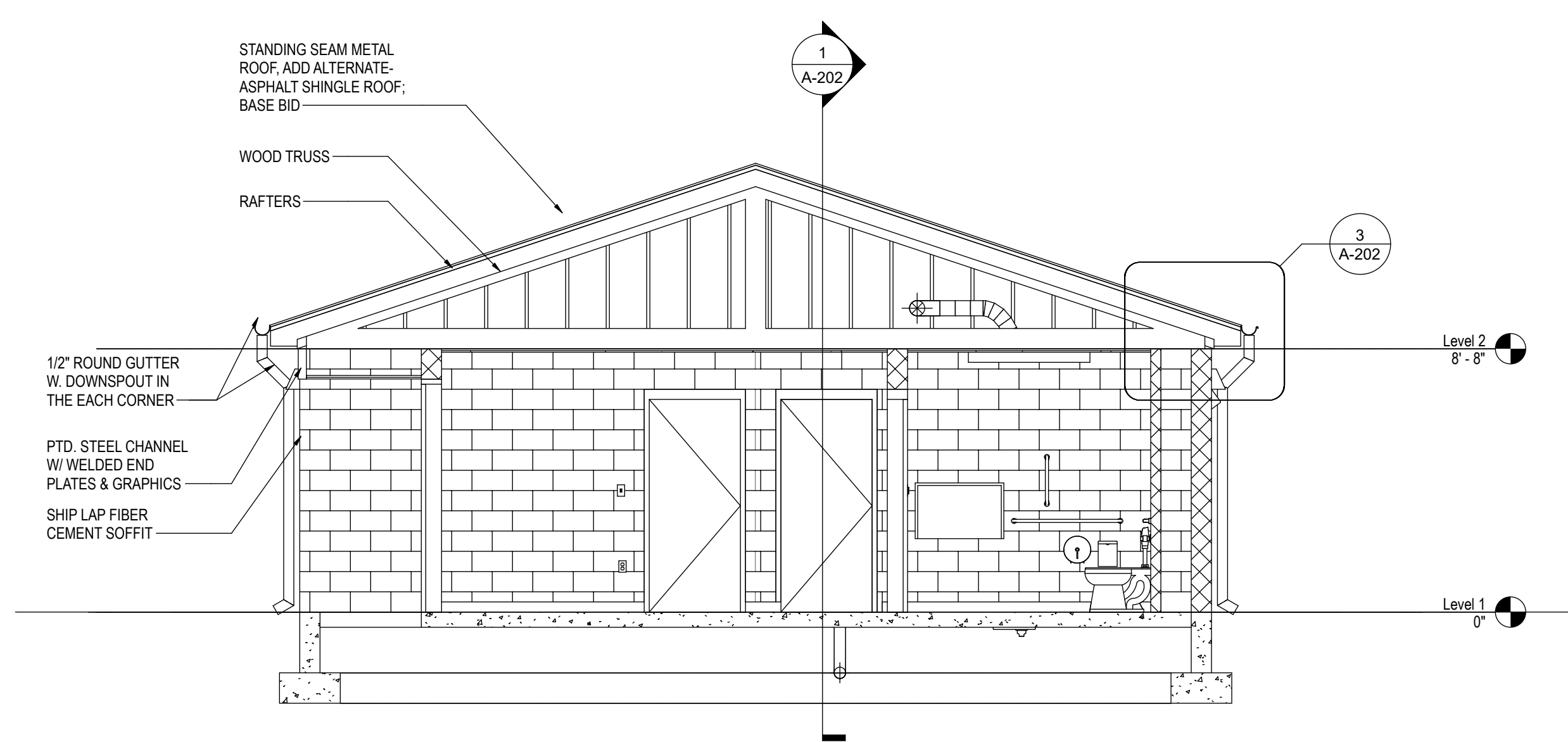
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Issue Date: 10/15/2025	Project No: 090475	Scale: AS SHOWN

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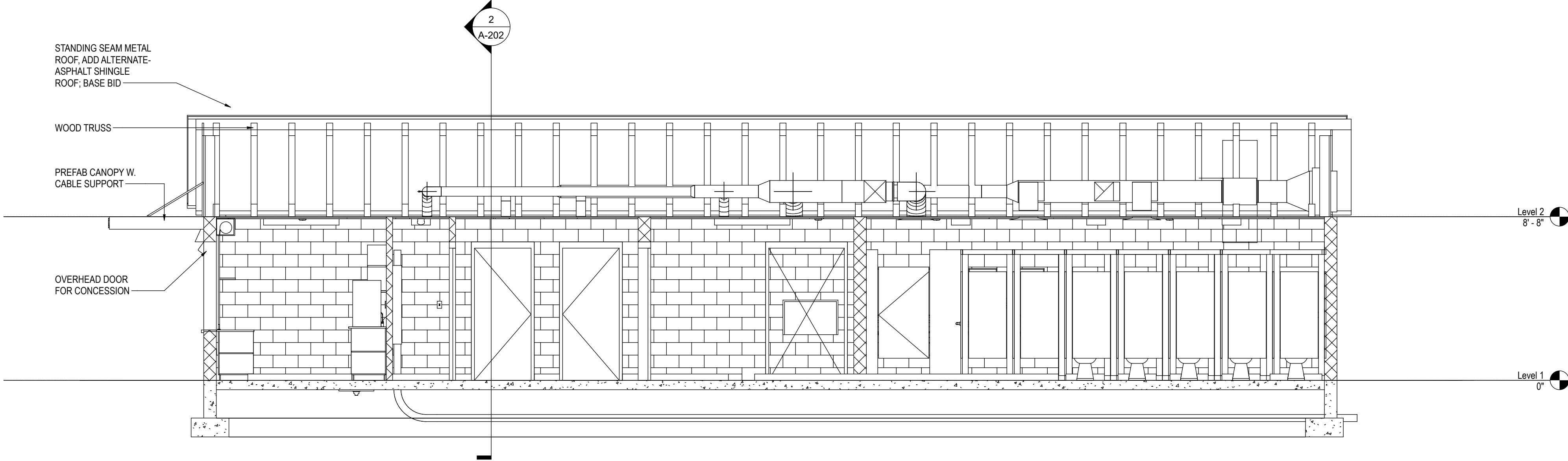
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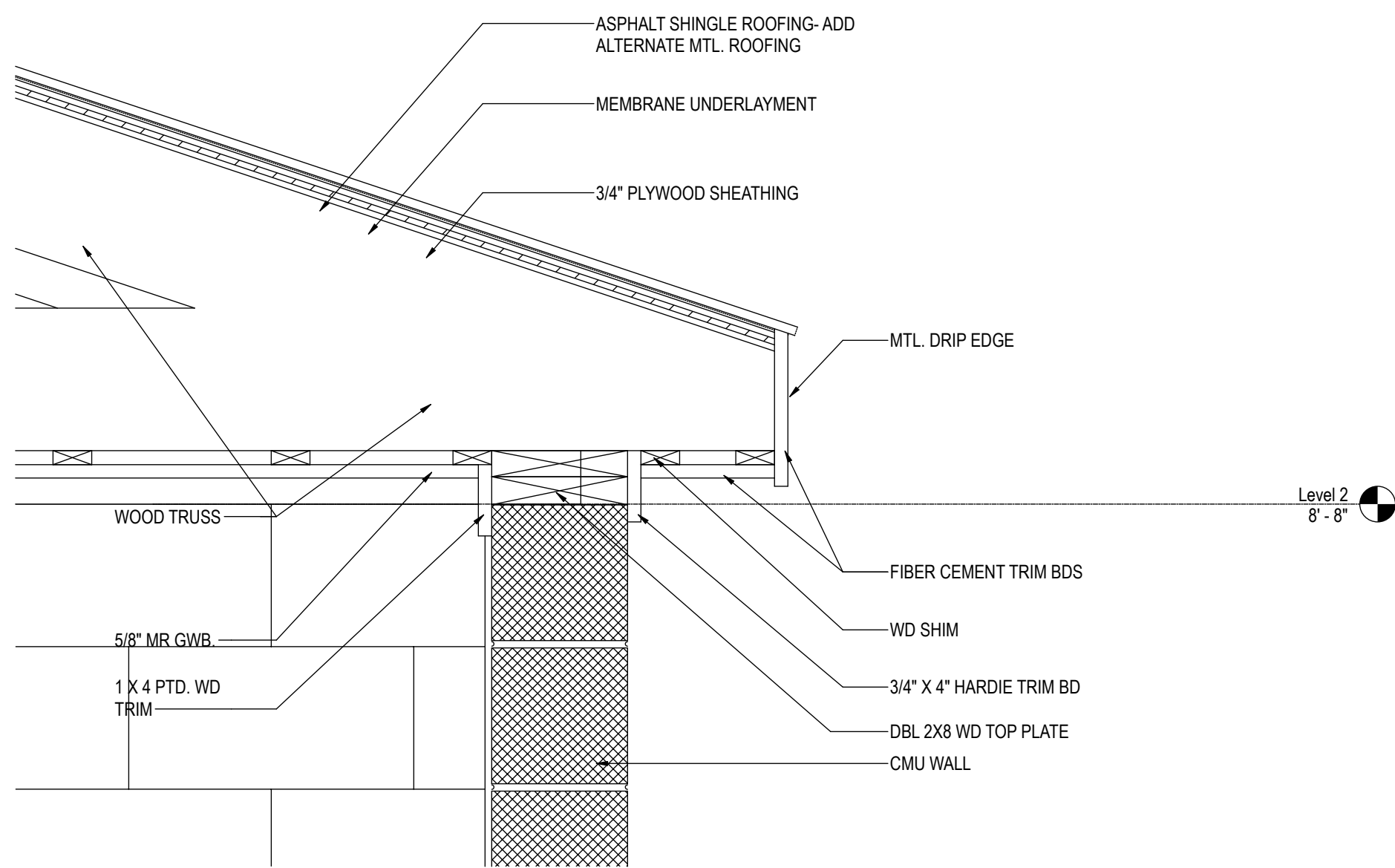
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2 SECTION THRU FAMILY RESTROOM
1/4" = 1'-0"



1 SECTION THRU CONCESSION & RESTROOMS
1/4" = 1'-0"

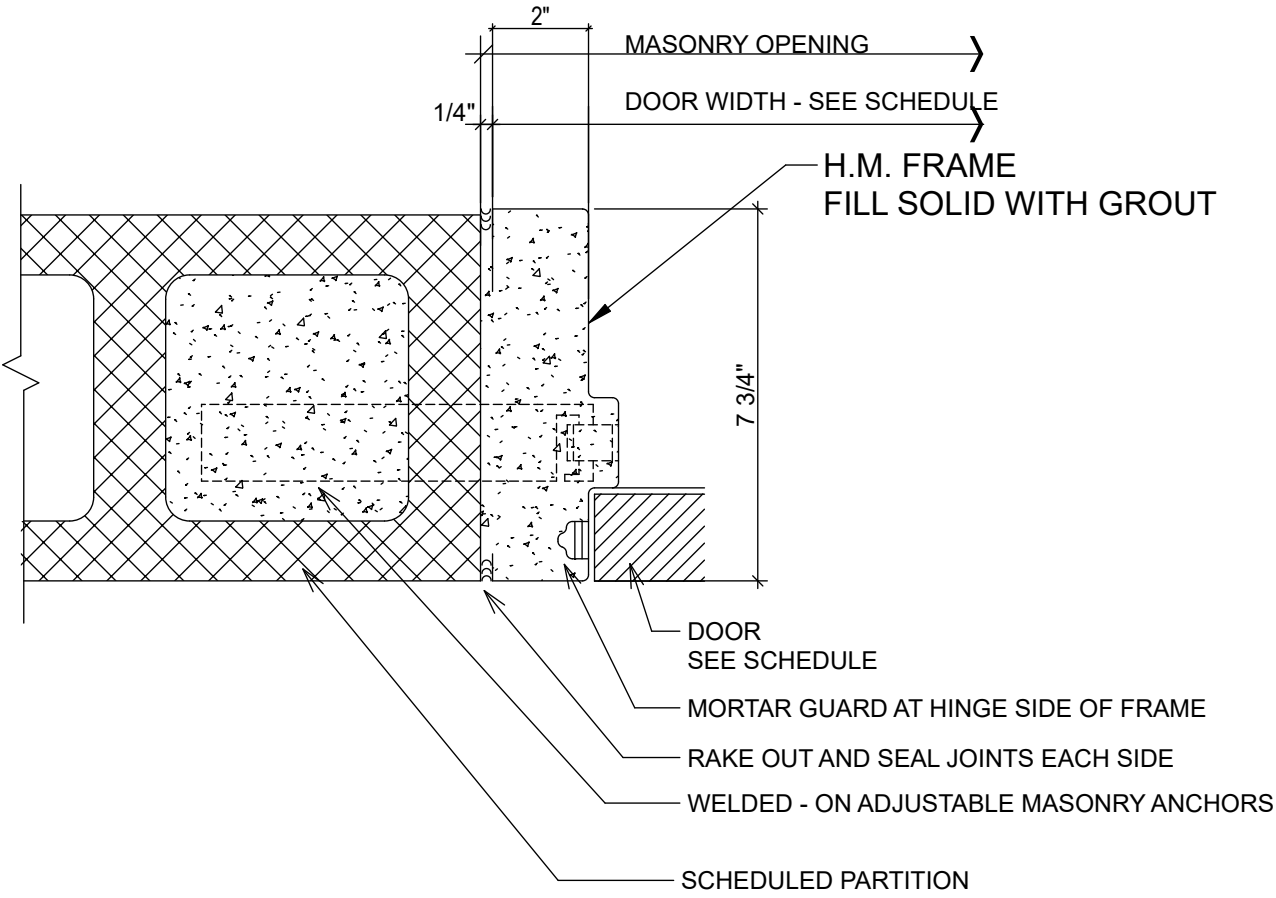
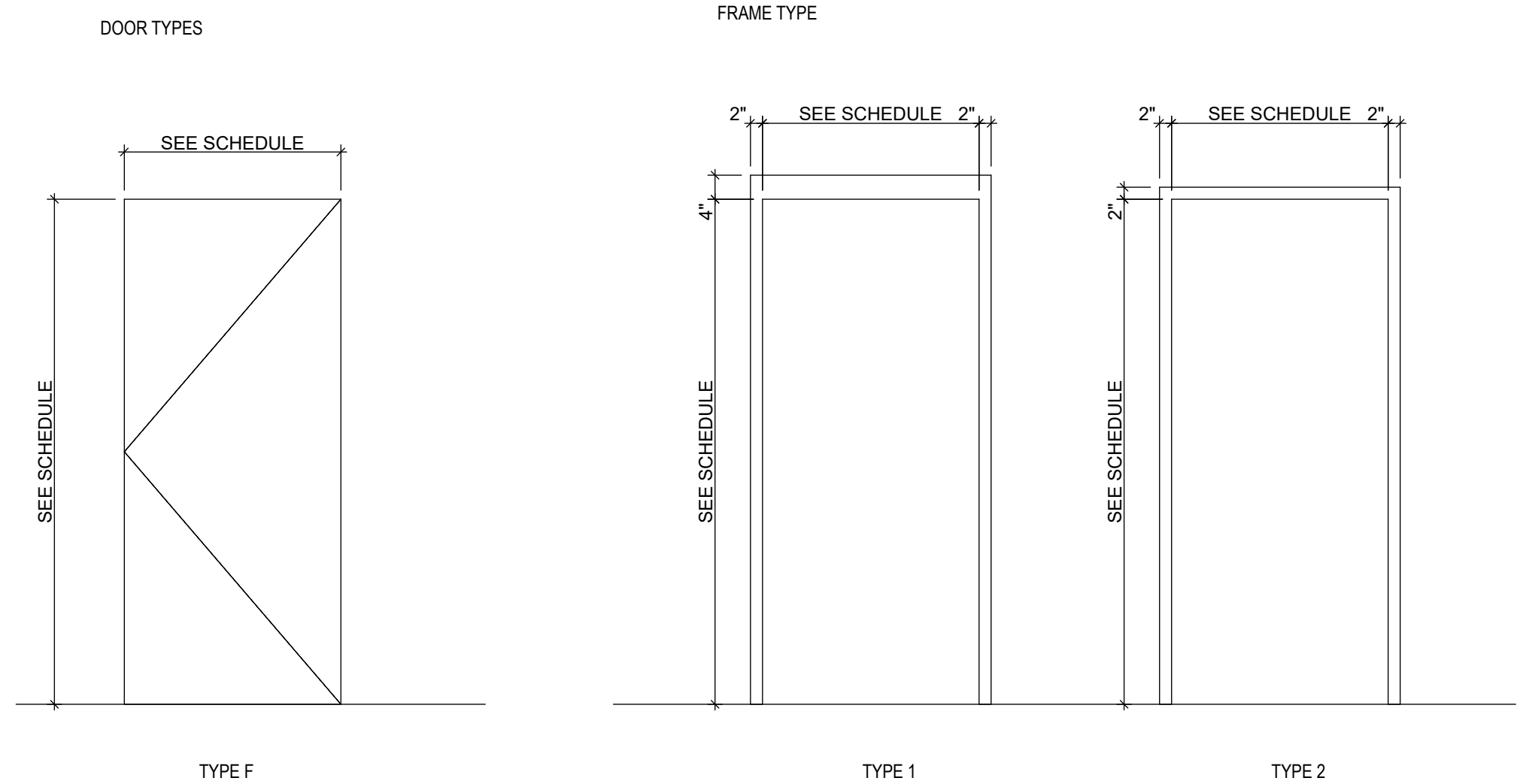


3 EAVE DETAIL
1 1/2" = 1'-0"

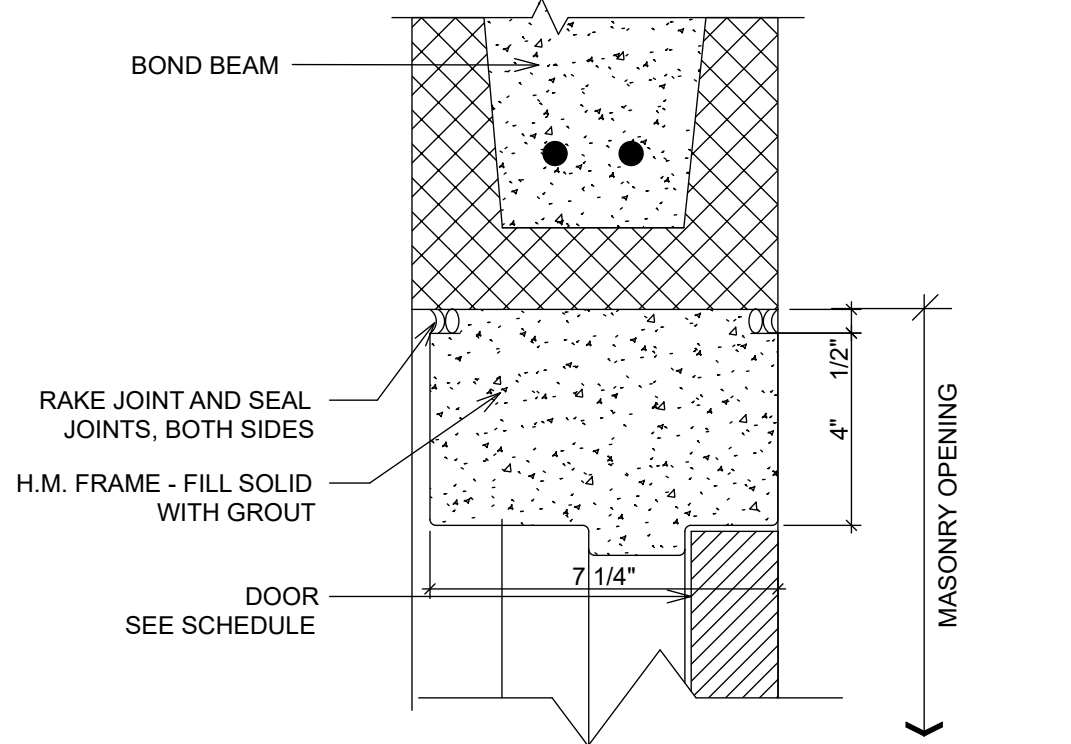


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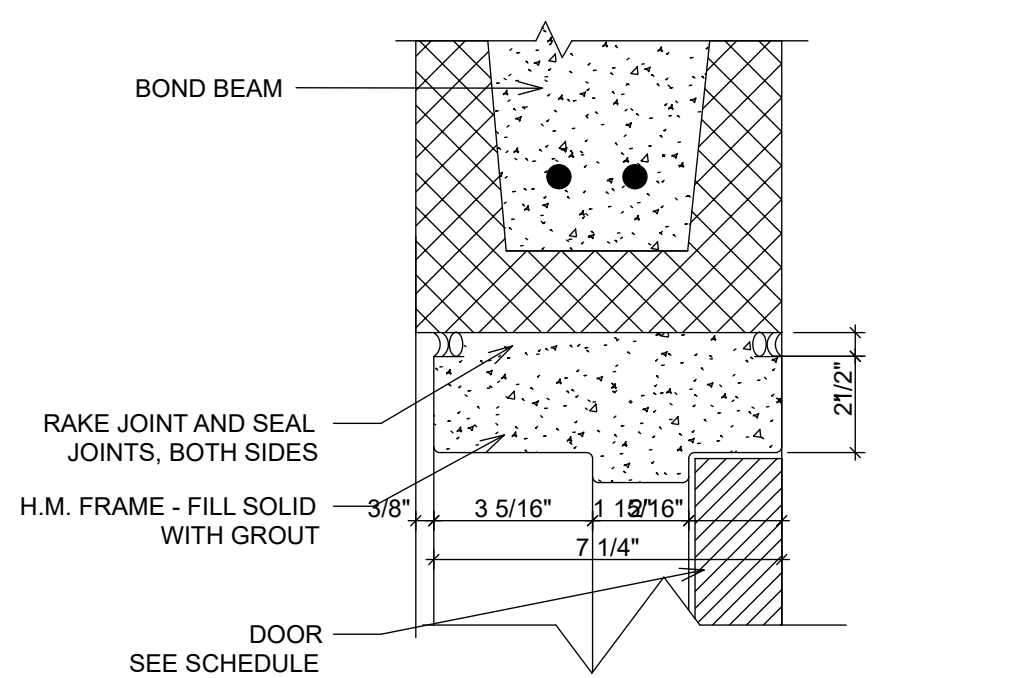
DOOR SCHEDULE															
Door Number	Name	DOOR						FRAME						Hrdwr Set	Remarks
		Width	Height	Material	Finish	Thickness	Type	Sill	Jamb	Head	Type	Material	Finish		
100	LOBBY	8' - 0"	7' - 6"	HM	PT	1 3/4"	F	5/A-601	2/A-601	4/A-601	2	HM	PT	DOUBLE DOOR	
101	MEN	4' - 0"	7' - 0"	HM	PT	0"	-	6/A-601	2/A-601	3/A-601	1	HM	PT	CASED OPENING	
101A	VEST.	3' - 0"	7' - 0"	HM	PT	1 3/4"	F	6/A-601	2/A-601	3/A-601	1	HM	PT		
101B	CHASE	2' - 8"	7' - 0"	HM	PT	1 3/4"	F	6/A-601	2/A-601	3/A-601	1	HM	PT	HINGES & CYL LOCK	
102	WOMEN	4' - 0"	7' - 0"	HM	PT	0"	-	6/A-601	2/A-601	3/A-601	1	HM	PT	CASED OPENING	
102A	VEST.	3' - 0"	7' - 0"	HM	PT	1 3/4"	F	6/A-601	2/A-601	3/A-601	1	HM	PT		
103	UTILITY	3' - 0"	7' - 0"	HM	PT	1 3/4"	F	6/A-601	2/A-601	3/A-601	1	HM	PT		
104	FAM.	3' - 0"	7' - 0"	HM	PT	1 3/4"	F	6/A-601	2/A-601	3/A-601	1	HM	PT		
105	ELEC.	3' - 0"	7' - 0"	HM	PT	1 3/4"	F	6/A-601	2/A-601	3/A-601	1	HM	PT		
106	CONCESSION	3' - 0"	7' - 0"	HM	PT	1 3/4"	F	6/A-601	2/A-601	3/A-601	1	HM	PT		
106A	CONCESSION	6' - 2"	4' - 8"	SS								SS	PT	COILING COUNTER DOORS	
107	STORAGE	3' - 0"	7' - 0"	HM	PT	1 3/4"	F	5/A-601	2/A-601	3/A-601	1	HM	PT		



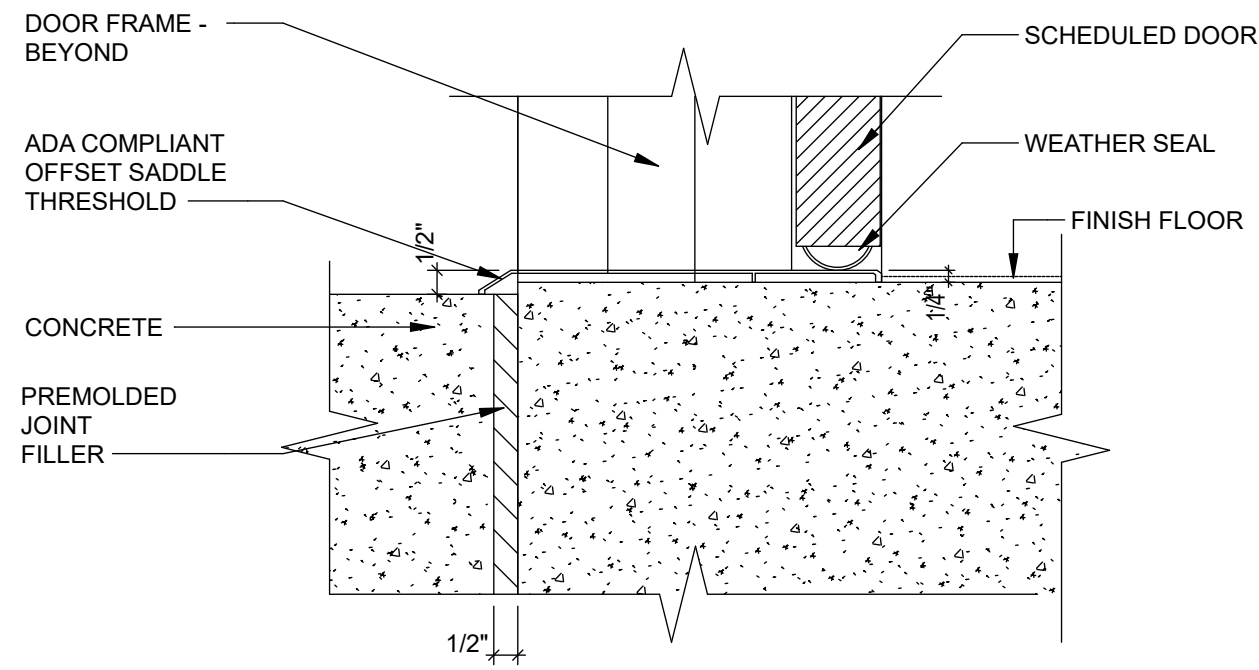
2 INTERIOR DETAIL - JAMB AT CMU
3" = 1'-0"



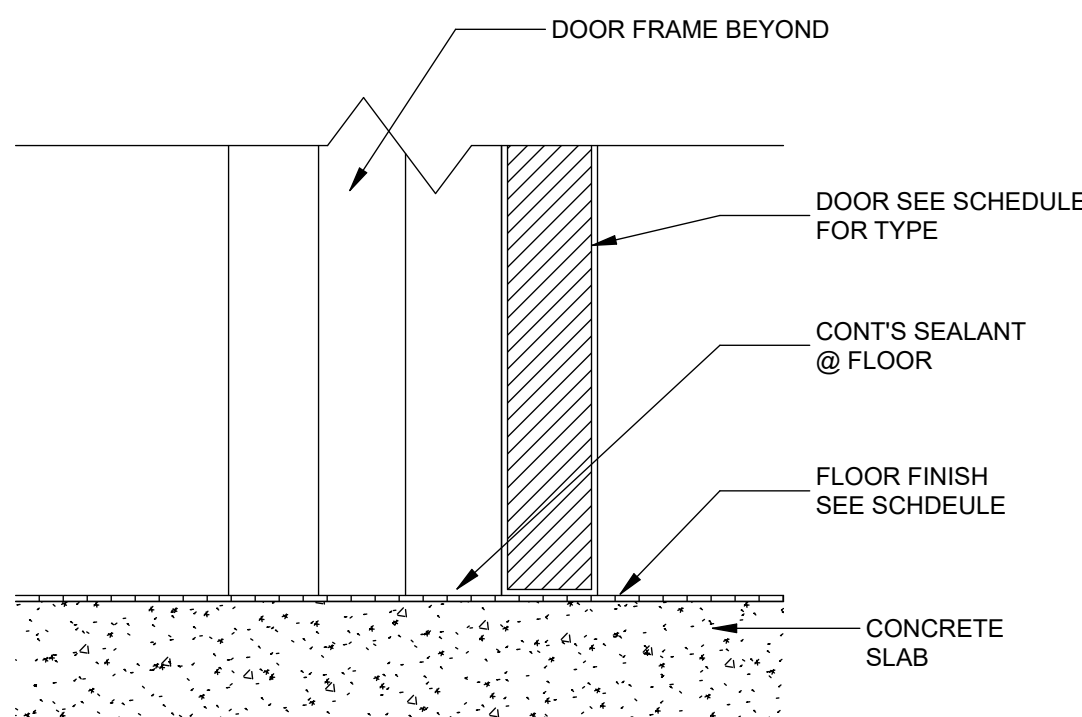
3 EXTERIOR/ INTERIOR DETAIL- 4" HEAD AT CMU
3" = 1'-0"



4 EXTERIOR DETAIL- 2" HEAD AT CMU
3" = 1'-0"



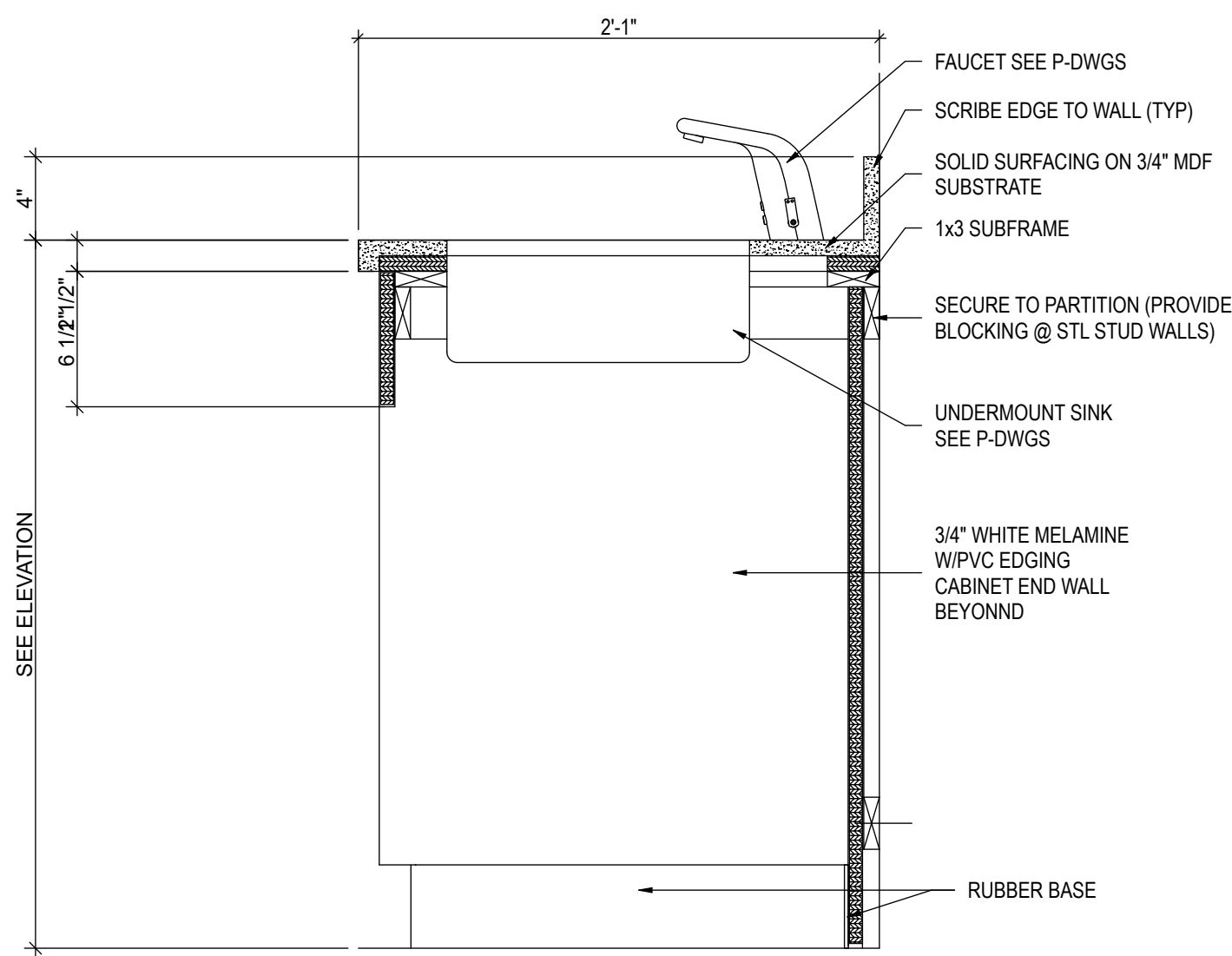
5 EXTERIOR DETAIL- SILL AT EXTERIOR DOOR
3" = 1'-0"



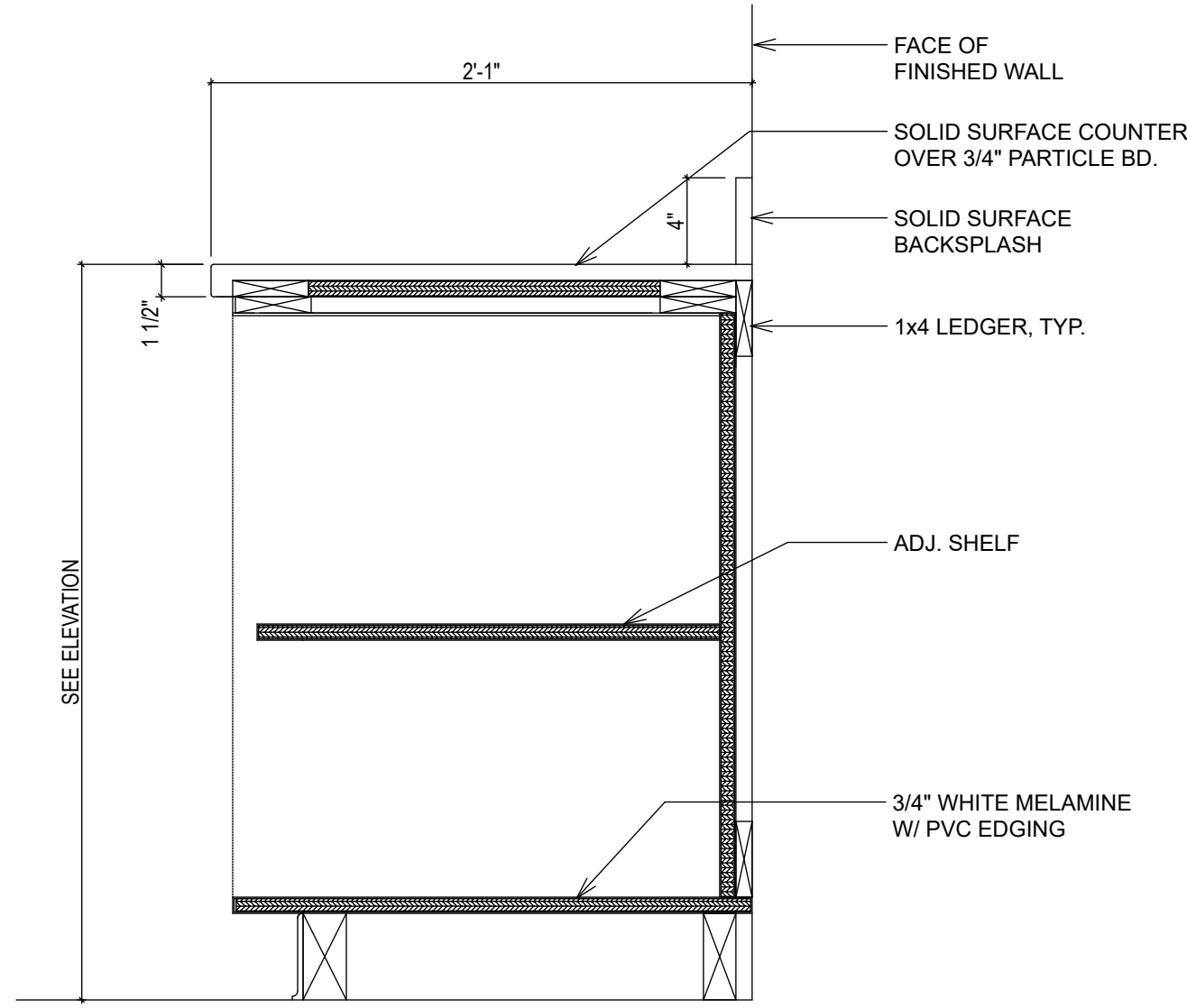
6 INTERIOR DETAIL- SILL AT EXTERIOR DOOR
3" = 1'-0"

MATERIAL & COLOR LEGEND					
TYPE	DESCRIPTION	BASIS-OF DESIGN	COLOR	FINISH	NOTES
FLOORING					
RS	RESINOUS FLOORING	SHERWIN WILLIAMS RESUFLOOR "DECO QUARTZ"	Q28- 23		
CONC.	SEALED CONCRETE		----		
WALL BASES					
WB-1	TYPICAL RUBBER BASE @ PT-1	TARKETT "MILLWORK/MONUMENT" 4"x0.25" BASE	"ANTIQUE WHITE" #194		
WB-2	TYPICAL RUBBER BASE @ PT-2	TARKETT "MILLWORK/MONUMENT" 4"x0.25" BASE	"CABERNET" #15		
PAINT					
PT-1	TYPICAL WALL PAINT	SHERWIN WILLIAMS	"GREEK VILLA" #7551	SATIN/ EGGSHELL	
PT-2	ACCENT WALL PAINT	SHERWIN WILLIAMS	BRANDING ACCENT "WILD CURRANT" SW #7583	CASHMERE PEARL	
PT-3	INETRIOR DOORS & FRAMES	SHERWIN WILLIAMS	"IVORY LACE" SW #7013	SEMI- GLOSS	
PT-4	INTERIOR DOORS & FRAMES	SHERWIN WILLIAMS	TO MATCH "NAVAJO BEIGE"	SEMI- GLOSS	
PT-5	CEILING	SHERWIN WILLIAMS	HIGH REFLECTANCE WHITE #SW7557	FLAT	
CEILINGS					
GWB	CEILING/SOFFIT GYPSUM WALL BOARD				
MILLWORK MATERIAL					
SS-1	SOLID SURFACE COUNTERTOPS	WILSONART	"BROOKLYN CONCRETE" #9219 GS		
SPECIALITY					
TP	TOILET PARTITIONS	SCRANTON PRODUCTS "FLOOR MOUNTED, OVERHEAD BRACE"	"CONCRETE"	ORANGE PEEL	
EXTERIOR MATERIALS					
CMU	DECORATIVE SPLIT FACE CMU	MATCH EXISTING SUPPORT BUILDING	MATCH EXISTING		GROUND FACE & SPLIT FACE
ASR	ASPHALT SHINGLE ROOF GUTTER & DOWNSPOUTS	MATCH EXISTING SUPPORT BUILDING	MATCH EXISTING TO MATCH HARDIE "NAVAJO BEIGE"		
	STANDING SEAM METAL ROOF	GARLAND	CRANBERRY FLEK		ADD ALTERNATE
	EXTERIOR DOOR & FRAME		PT-4		
FCS	FIBER CEMENT SIDING	JAMES HARDIE "HARDIE SHINGLE SIDING- STRAIGHT EDGE PANEL"	COUNTRYLANE RED		
FCT	FIBER CEMENT TRIM	JAMES HARDIE "HARDIE ARTISAN TRIM"	NAVAJO BEIGE		

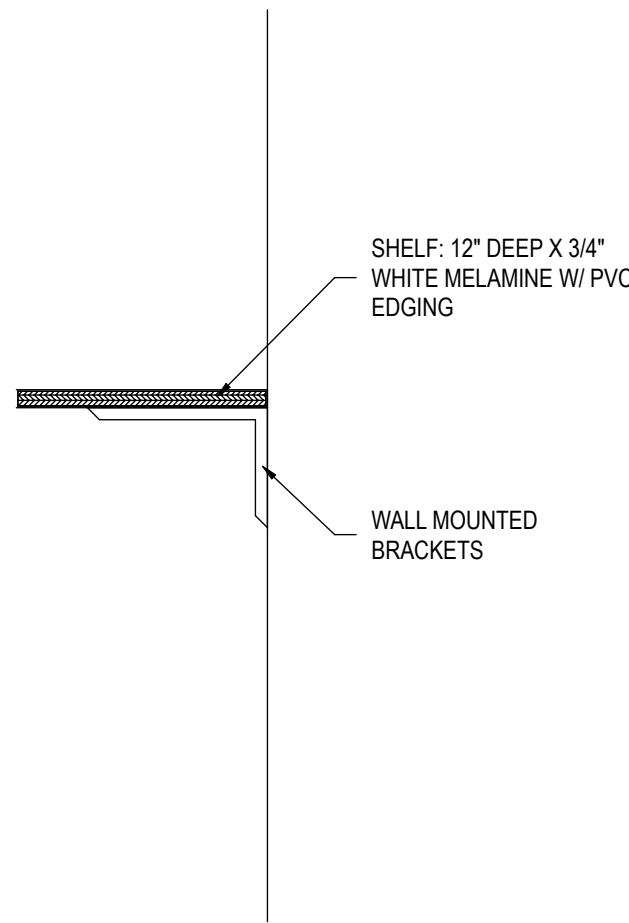
ROOM FINISH SCHEDULE						
Room Number	Room Name	Floor	Base	Wall	Ceiling	Notes
100	LOBBY	RS-1	WB-1	PT-1	GWB/ PT-5	
101	MEN	RS-1	WB-1/ WB-2	PT-1/ PT-2	GWB/ PT-5	PT-2 & WB-2 @ ACCENT WALL
101A	VEST.	RS-1	WB-1	PT-1	GWB/ PT-5	
102	WOMEN	RS-1	WB-1/ WB-2	PT-1/ PT-2	GWB/ PT-5	PT-2 & WB-2 @ ACCENT WALL
102A	VEST.	RS-1	WB-1	PT-1	GWB/ PT-5	
103	UTILITY	CONC.	WB-1	PT-1	-	
104	FAM.	RS-1	WB-1/ WB-2	PT-1/ PT-2	GWB/ PT-5	PT-2 & WB-2 @ ACCENT WALL
105	ELEC.	CONC.	WB-1	PT-1	-	
106	CONCESSION	RS-1	WB-1/ WB-2	PT-1/ PT-2	GWB/ PT-5	PT-2 & WB-2 @ ACCENT WALL
107	STORAGE	CONC.	WB-1	PT-1	-	



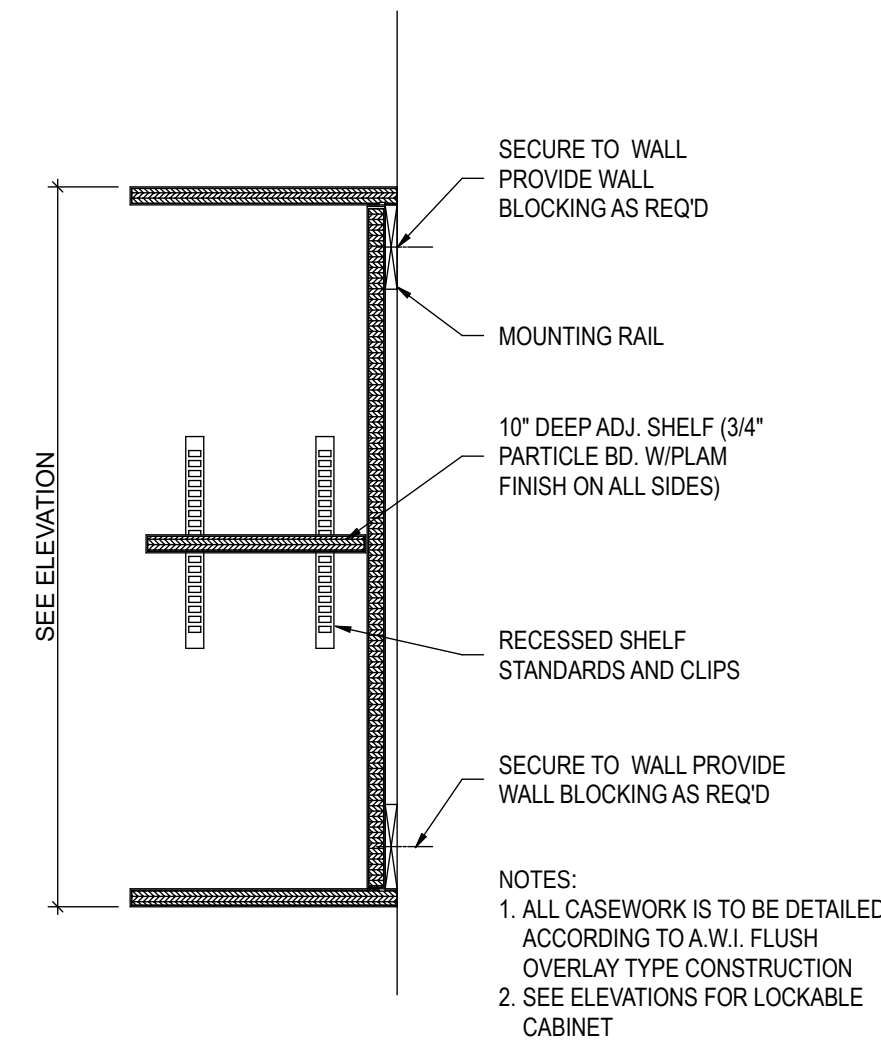
10 B1- BASE WITH UNDERMOUNT SINK
1 1/2" = 1'-0"



12 BASE CABINET, TYP.
1 1/2" = 1'-0"



14 U2- WALL SHELVING
1 1/2" = 1'-0"



11 WALL CABINET, TYP.
1 1/2" = 1'-0"

Toilet Accessory Schedule

Number	Description	Manufacturer & Model	Notes
01	TOILET PAPER DISPENSER	KIMBERLY-CLARK; #98612	*1
02	LIQUID SOAP DISPENSER	KIMBERLY-CLARK; #92145	*1
03	PAPER TOWEL DISPENSER	KIMBERLY-CLARK; #09990	*1
04	WASTE RECEPTACLE	RUBBERMAID; #7822 (W/O ASHTRAY)	*1
05-06-07	GRAB BAR	BOBRICK; B-5806 99X36 & B-5806 99X48 & B-5806 99X18	*2
08	SANITARY NAPKIN UNITS	BOBRICK; B-270	*1
09	BABY CHANGING STATION	KOALA KARE; #KB200	*1
10	MIRROR	BOBRICK; B-165/1636/18 "X36"	*1
12	SANITARY NAPKIN DISPOSAL	ROCHESTER MIDLAND; #CARE 111-J-10	*3
13	ELECTRIC HAND DRYER		*1

NOTES: SEE PLUMBING SCHEDULE FOR FIXTURES

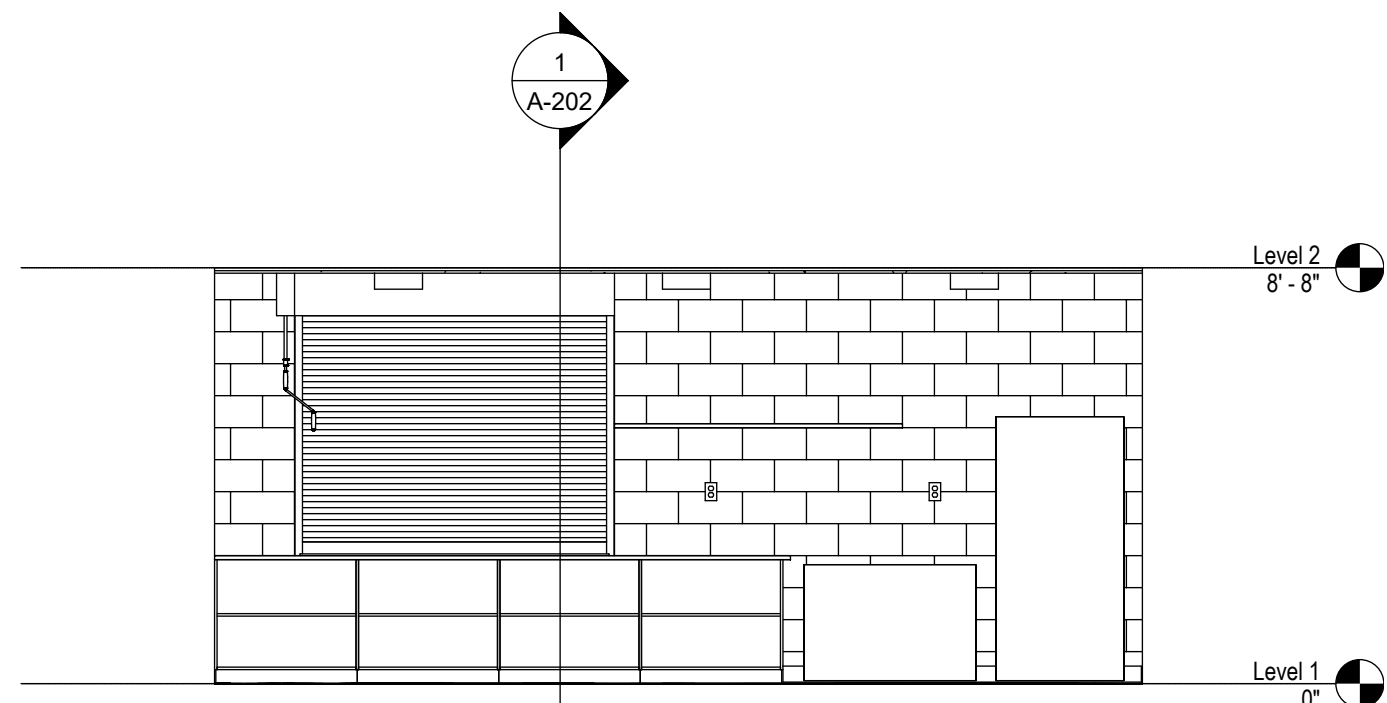
*1 INSTALL IN ALL RESTROOMS U.N.O. LOCATION & QUANTITY PER PLAN

*2 INSTALL IN ALL ACCESSIBLE TOILET COMPARTMENTS

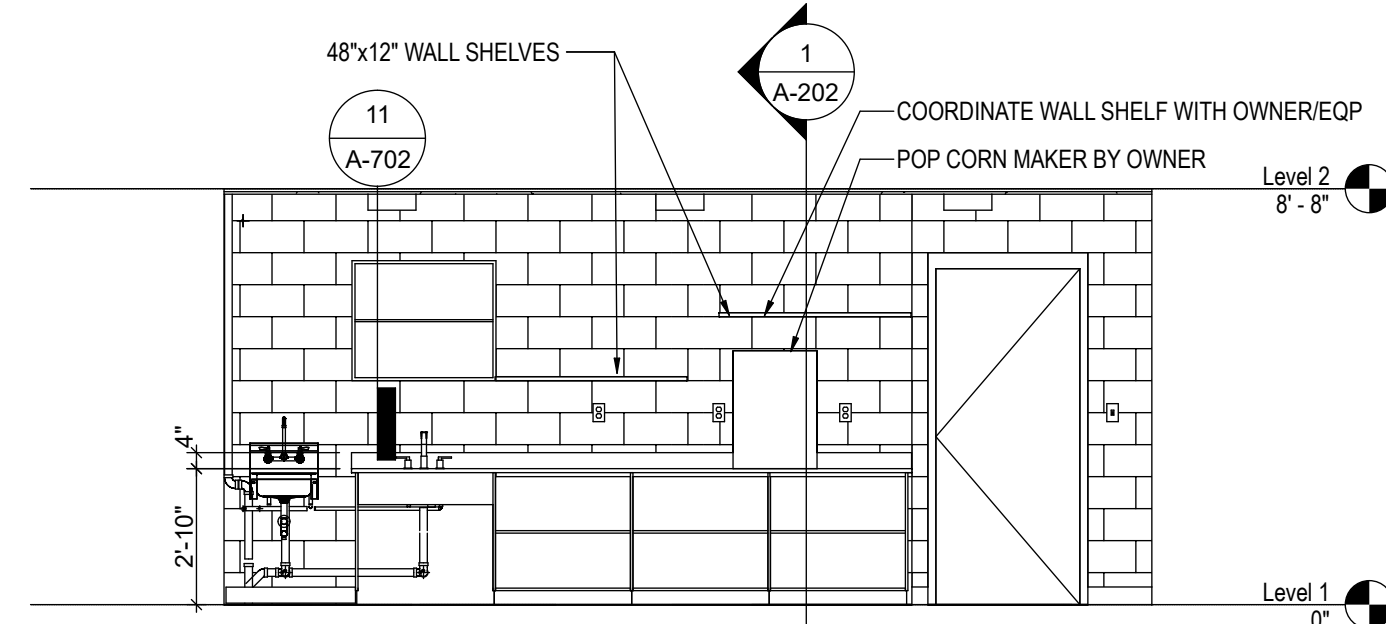
*3 INSTALL IN ALL WOMENS BATHROOM STALLS AND FAMILY

Number	Description
01	TOILET PAPER DISPENSER
02	SOAP DISPENSER
03	PAPER TOWEL DISPENSER
04	WASTE RECEPTACLE

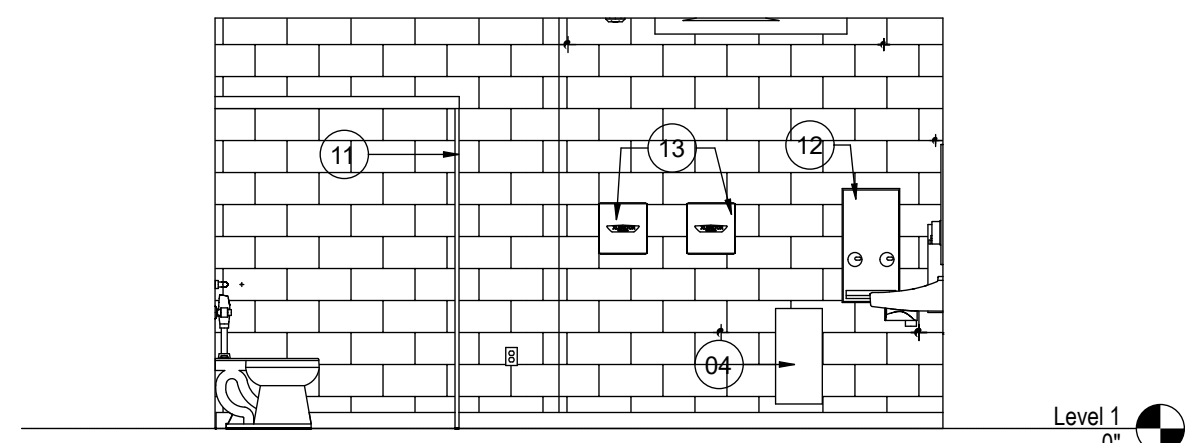
Number	Description
05	GRAB BAR/ TOILET BACK
06	GRAB BAR/ TOILET SIDE
07	GRAB BAR/ VERTICAL
08	SANITARY NAPKIN DISPOSAL UNITS
09	BABY CHANGING STATION
10	MIRROR
11	TOILET PARTITION
12	SANITARY NAPKIN DISPENSER
13	ELECTRIC HAND DRYER



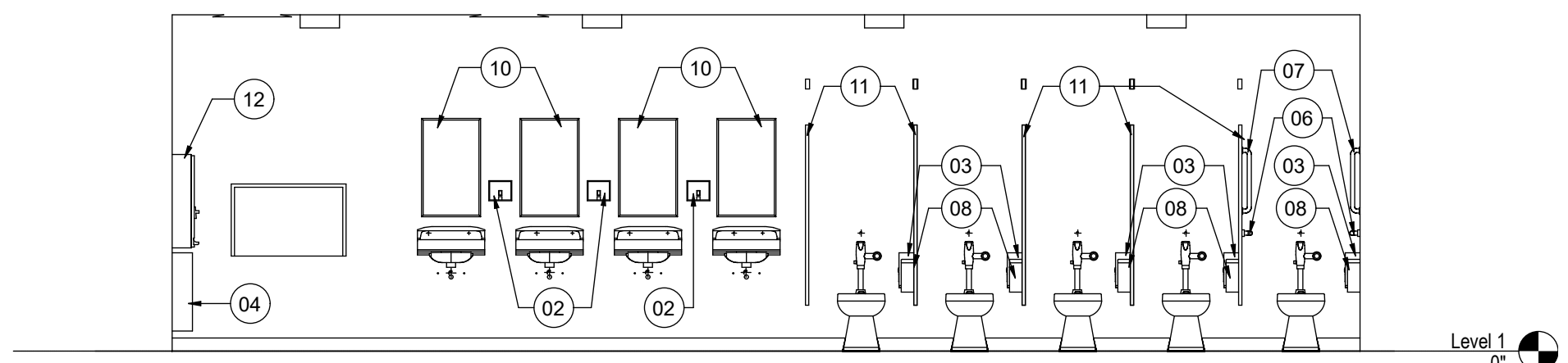
9 CONCESSIONS- SOUTH
1/4" = 1'-0"



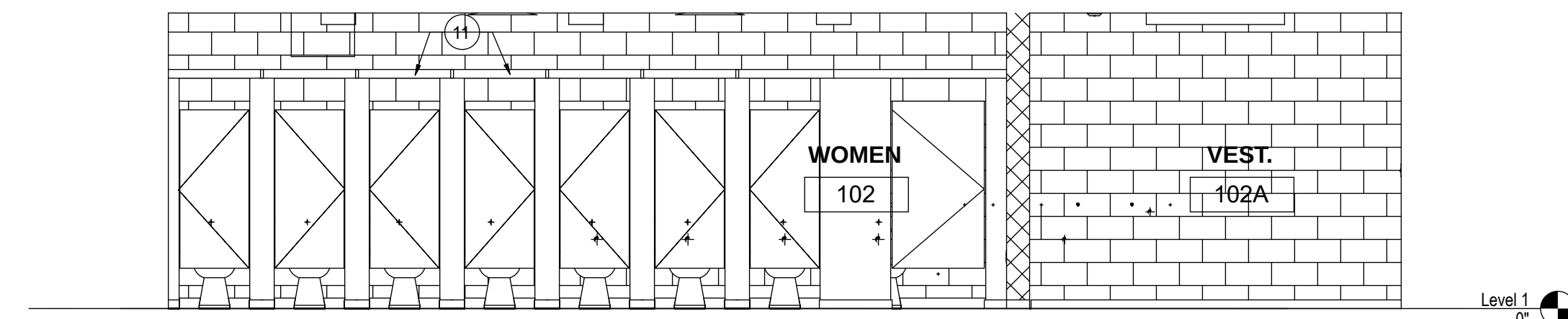
8 CONCESSIONS- NORTH
1/4" = 1'-0"



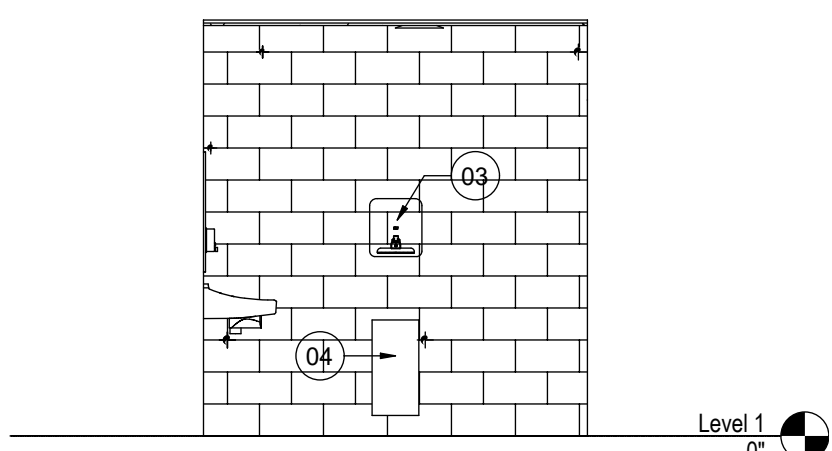
7 WOMEN'S RESTROOM- SOUTH
1/4" = 1'-0"



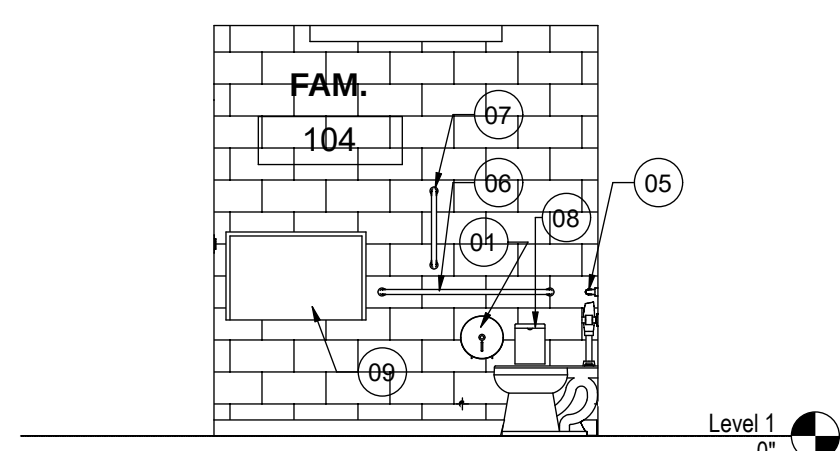
6 WOMEN'S RESTROOM- WEST
1/4" = 1'-0"



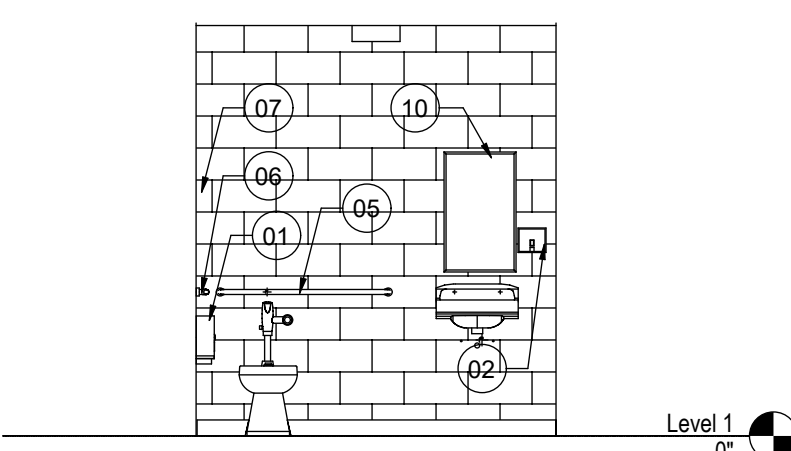
5 WOMEN'S RESTROOM- EAST
1/4" = 1'-0"



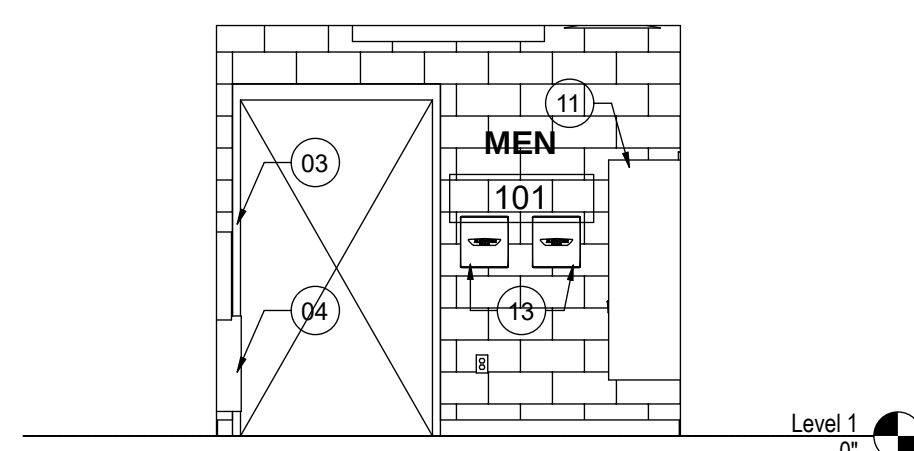
13 FAMILY RESTROOM- NORTH
1/4" = 1'-0"



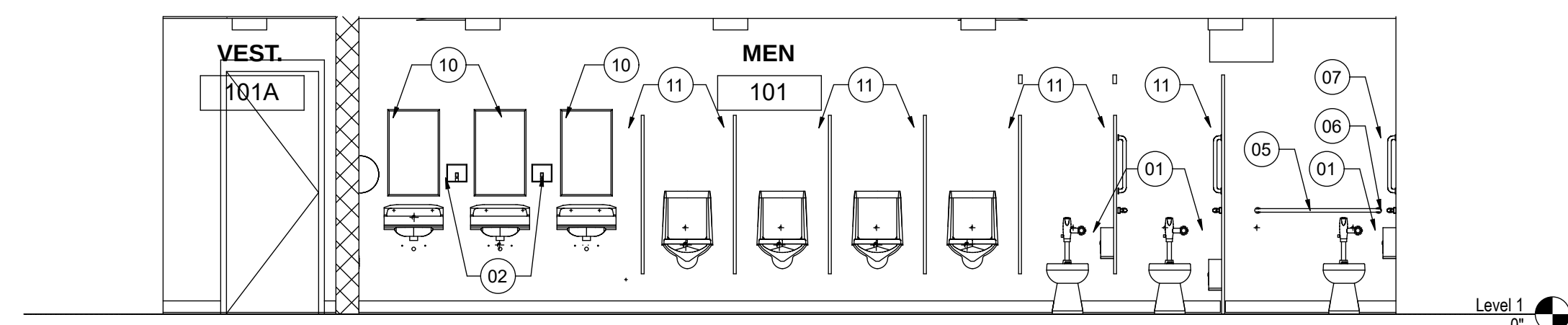
4 FAMILY RESTROOM- SOUTH
1/4" = 1'-0"



3 FAMILY RESTROOM- WEST
1/4" = 1'-0"



2 MEN'S RESTROOM- SOUTH
1/4" = 1'-0"



1 MEN'S RESTROOM- WEST
1/4" = 1'-0"

IT IS A VIOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE AT THE TIME, UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER OR REPRODUCE ANY PART OF THIS DRAWING. THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE REASON FOR THE ALTERATION. ANY ALTERATION SHALL BE FOLLOWED BY THE SIGNATURE, THE DATE OF SUCH ALTERATION AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

RHODE ISLAND COLLEGE-
TRACK SUPPORT
BUILDING

No. | Submittal / Revision | App'd. By | Date



1 | CD SUBMISSION | | 10/31/2025

INTERIOR ELEVATIONS &
CASEWORK DETAILS

Designed By: KL | Drawn By: JP | Checked By: KL
Issue Date: 10/15/2025 | Project No: 090475 | Scale: AS SHOWN

Drawing No:

A-702

GENERAL

- G1. THE GENERAL NOTES APPLY UNLESS NOTED OTHERWISE ON THE DRAWINGS AND SPECIFICATIONS.
- G2. STRUCTURAL WORK SHALL CONFORM TO REQUIREMENTS OF THE RHODE ISLAND BUILDING CODE 2021.
- G3. THE INTENT OF THE STRUCTURAL DRAWINGS IS TO SHOW THE MAIN STRUCTURAL FEATURES AND DESIGN FOR THE COMPLETED PROJECT. ARCHITECTURAL DETAILS AND OTHER COMPONENTS THAT MAY BE NECESSARY TO CONSTRUCT THE PROJECT ARE SHOWN INCIDENTALLY ONLY AND NOT COMPLETELY.
- G4. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION AND SITE/CIVIL DRAWINGS, APPROVED SHOP DRAWINGS, AND SPECIFICATIONS.
- G5. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND SITE/CIVIL DRAWINGS FOR VERIFICATION OF LOCATIONS AND DIMENSIONS OF ALL SHAFTS, INSERTS, CURBS, OPENINGS, SLEEVES, ANCHOR RODS, FLOOR PITCHES, ANGLE FRAMES, AND OTHER PROJECT REQUIREMENTS NOT SHOWN ON STRUCTURAL DRAWINGS.
- G6. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND SITE/CIVIL DRAWINGS FOR OTHER PROJECT REQUIREMENTS NOT SHOWN ON STRUCTURAL DRAWINGS.
- G6. THE CONTRACTOR SHALL INFORM THE ARCHITECT OF ALL DISCREPANCIES BETWEEN DRAWINGS OF DIFFERENT TRADES PRIOR TO INITIATION OF ANY WORK.
- G7. SHOP DRAWINGS FOR REINFORCING STEEL AND PREFABRICATED WOOD TRUSSES SHALL BE SUBMITTED TO THE ARCHITECT AND A STAMPED APPROVAL RECEIVED BEFORE FABRICATION MAY PROCEED. FABRICATION AND ERECTION SHALL PROCEED FROM APPROVED SHOP DRAWINGS ONLY.
- G8. NOTES AND DETAILS SHOWN ON ANY STRUCTURAL DRAWINGS SHALL BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS, UNLESS NOTED.
- G9. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.
- G10. ALL MATERIALS AND WORKMANSHIP SHALL BE INSPECTED BY THE OWNERS TESTING AGENCY.

**STRUCTURAL LOADS - RHODE ISLAND BUILDING CODE 2021
(I.B.C. 2018 WITH RHODE ISLAND AMENDMENTS & ASCE STANDARD ASCE 7-16)**

- L1. DEAD LOADS
A. WEIGHT OF BUILDING COMPONENTS
1. TYPICAL ROOF AREAS 15 PSF
- L2. SNOW LOADS
A. GROUND SNOW LOAD - P_g = 35 PSF
B. SNOW IMPORTANCE FACTOR - (ASCE 7-16 - TABLE 1.5-2) I_s = 1.0
C. EXPOSURE FACTOR - (ASCE 7-16 - TABLE 7.3-1) C_e = 1.0
D. THERMAL FACTOR - (ASCE 7-16 - TABLE 7.3-2) C_t = 1.0
E. FLAT ROOF SNOW LOAD - (ASCE 7-16 - SECTION 7.3) P_f = 35 PSF
F. ROOF SLOPE FACTOR - (ASCE 7-16 - FIGURE 7.4-1) C_s = 1.0
G. SLOPED ROOF SNOW LOAD (ASCE 7-16 - SECTION 7.4) P_s = 35 PSF
- L3. LIVE LOADS
A. LOADS - (IBC - TABLE 1607.1)
1. TYPICAL GROUND LEVEL 100 PSF
2. ATTIC LEVEL 25 PSF + EQUIPMENT
B. LIVE LOAD REDUCTION - (IBC - SECTION 1607.12)
- L4. WIND LOADS
NOTE: PER ASCE 7-16 AND 2018 IBC, THE DESIGN WIND PRESSURES LISTED BELOW REFLECT ULTIMATE STRENGTH VALUES.
A. WIND LOAD PARAMETERS - (ASCE 7-16 - CHAPTER 26)
1. RISK CATEGORY - (IBC 2018 - TABLE 1604.5) CATEGORY II
2. ULTIMATE DESIGN WIND SPEED - (IBC 2018 - EQUATION 16-17) V_{ult} = 135 MPH
3. NOMINAL DESIGN WIND SPEED - (IBC 2018 - EQUATION 16-17) V_{ref} = 105 MPH
4. WIND DIRECTIONALITY FACTOR - (ASCE 7-16 - TABLE 26.6-1) K_d = 0.85
5. WIND EXPOSURE CATEGORY - (ASCE 7-16 - SECTION 26.7) EXPOSURE C
6. TOPOGRAPHIC FACTOR - (ASCE 7-16 - FIGURE 26.8-1) K_{zt} = 1.00
7. ENCLOSURE CLASSIFICATION - (ASCE 7-16 - SECTION 26.12) G_{Cen} = ±0.18
8. INTERNAL PRESSURE COEFFICIENT - (ASCE 7-16 - TABLE 26.13-1) C_{pi} = 0.85
9. VELOCITY PRESSURE COEFFICIENT - (ASCE 7-16 - TABLE 26.10-1) C_{pe} = 0.85
10. VELOCITY PRESSURE - (ASCE 7-16 - EQUATION 26.10-1) q_h = 33.7 PSF
B. COMPONENTS AND CLADDING - (ASCE 7-16 - CHAPTER 30, PART 1: LOW-RISE BUILDINGS)
1. EFFECTIVE WIND AREA - (ASCE 7-16 - FIGURE 30.3-1) A_{eff} ≤ 10 SQ. FT.
2. WIDTH OF SALIENT ZONE a = 6 FEET
3. NET DESIGN WIND PRESSURES - (ASCE 7-16 - EQUATION 30.3-1)
a. WALL ELEMENTS
i. AT A NON-SALIENT AREA p_{net} = +40 PSF / -43 PSF
ii. AT A SALIENT CORNER p_{net} = +40 PSF / -53 PSF
b. ROOF ELEMENTS
i. AT A NON-SALIENT AREA p_{net} = +23 PSF / -36 PSF
ii. AT AN EDGE p_{net} = +23 PSF / -63 PSF
iii. AT A SALIENT CORNER p_{net} = +23 PSF / -94 PSF
c. OVERHANG ELEMENTS
i. AT AN EDGE p_{net} = -80 PSF
ii. AT A SALIENT CORNER p_{net} = -131 PSF
- L5. SEISMIC LOADS
A. SEISMIC OCCUPANCY CATEGORY - (ASCE 7-16 - TABLE 1.5-1) RISK CATEGORY II
B. MAPPED SPECTRAL ACCELERATION FOR SHORT PERIODS - (IA TABLE 1604.11) S_s = 0.198g
C. DESIGN SPECTRAL RESPONSE ACCELERATION FOR SHORT PERIODS S_{DS} = 0.212g
D. MAPPED SPECTRAL ACCELERATION FOR 1-SECOND PERIOD - (IA TABLE 1604.11) S_1 = 0.055g
E. DESIGN SPECTRAL RESPONSE ACCELERATION FOR 1-SECOND PERIOD S_{D1} = 0.089g
F. SITE CLASS - REFER TO GEOTECHNICAL REPORT SITE CLASS D
G. SEISMIC DESIGN CATEGORY - (ASCE 7-16 - TABLES 11.6-1 & 11.6-2) CATEGORY
H. BASIC SEISMIC-FORCE-RESISTING SYSTEM - (ASCE 7-16 - TABLE 12.2-1) ORDINARY REINFORCED MASONRY SHEAR WALLS
I. RESPONSE MODIFICATION COEFFICIENT - (ASCE 7-16 - TABLE 12.2-1) R = 2
J. DEFLECTION AMPLIFICATION FACTOR - (ASCE 7-16 - TABLE 12.2-1) C_d = 1.175
K. SYSTEM OVERSTRENGTH FACTOR - (ASCE 7-16 - TABLE 12.2-1) Ω_0 = 2.5
L. SEISMIC IMPORTANCE FACTOR - (ASCE 7-16 - TABLE 1.5-2) I_h = 1.0
M. SEISMIC RESPONSE COEFFICIENT - (ASCE 7-16 - SECTION 12.8.1.1) C_s = 0.11
N. ANALYSIS PROCEDURE USED EQUIVALENT LATERAL FORCE

FOUNDATION (SECTION 310000)

- F1. FOUNDATION WORK SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT BY LAHLAF GEOTECHNICAL CONSULTING, INC. ENTITLED "GEOTECHNICAL REPORT - PROPOSED ATHLETIC FIELDS, RHODE ISLAND COLLAGE, PROVIDENCE, RHODE ISLAND, LGCI PROJECT NO. 2229, DATED AUGUST 24, 2022.
- F2. THE OWNER AND ARCHITECT ASSUME NO RESPONSIBILITY FOR THE VALIDITY OF THE SUBSURFACE CONDITIONS DESCRIBED ON THE DRAWINGS, SPECIFICATIONS, BORING LOGS, OR TEST PITS. THIS DATA IS INCLUDED ONLY TO ASSIST THE CONTRACTOR DURING BIDDING AND SUBSEQUENT CONSTRUCTION AND REPRESENT CONDITIONS ONLY OF THOSE SPECIFIED LOCATIONS AT THE PARTICULAR TIME THEY WERE MADE.
- F3. THE CONTRACTOR SHALL INFORM THE ARCHITECT AND RELOCATE, AS REQUIRED, ANY EXISTING UTILITY LINES THAT MAY INTERFERE WITH NEW FOUNDATIONS. THE CONTRACTOR SHALL REMOVE ANY EXISTING UTILITY LINES THAT ARE BEING ABANDONED IN THE VICINITY OF THE NEW FOUNDATION AND BACKFILL THE AREA WITH COMPACTED STRUCTURAL FILL.
- F4. THE BOTTOM SURFACE OF ALL SPREAD FOOTINGS SHALL REST ON A 6" THICK LAYER OF COMPACTED CRUSHED STONE WRAPPED IN GEOTEXTILE FABRIC OVER UNDISTURBED APPROVED SOIL OR COMPACTED STRUCTURAL FILL. WITH A MINIMUM ASSUMED ALLOWABLE BEARING PRESSURE OF 1.0 TON PER SQUARE FOOT (TO BE VERIFIED BY THE GEOTECHNICAL ENGINEER OF RECORD). REMOVE ALL ORGANICS, CLAYS, SILTS, OR UNSUITABLE OR UNCOMPACTED FILL MATERIALS FROM BENEATH NEW FOOTINGS AND REPLACE WITH COMPACTED STRUCTURAL FILL.
- F5. THE ESTIMATED BOTTOM ELEVATION OF EACH FOOTING IS INDICATED THUS (X'-X") ON PLAN. THE BOTTOM OF EACH EXTERIOR FOOTING SHALL BE A MINIMUM OF 3'-4" BELOW ADJACENT EXTERIOR FINISH GRADE.
- F6. PROVIDE 2" RIGID INSULATION AND A VAPOR BARRIER UNDER INTERIOR CONCRETE SLABS ON GRADE. PROVIDE 6" MINIMUM OF COMPACTED CRUSHED STONE BASE COURSE UNDER GROUND FLOOR SLABS ON GRADE.
- F7. BACKFILL AGAINST WALLS, MATS, AND FOOTINGS SHALL BE ENGINEERED BACKFILL COMPACTED IN SPECIFIED LIFTS TO 95 PERCENT OF MAXIMUM DENSITY, UNLESS OTHERWISE INDICATED OR SPECIFIED. REFER TO GEOTECHNICAL REPORT AND EARTHWORK SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
- F8. VERIFY LOCATIONS AND REQUIREMENTS FOR INSERTS, SLEEVES, CONDUITS, EMBEDMENTS, AND PENETRATIONS WITH RESPECTIVE TRADES BEFORE PLACING CONCRETE.
- F9. FOUNDATIONS SHALL BE CENTERED UNDER SUPPORTED MEMBERS, UNLESS NOTED OTHERWISE.
- F10. DOWELS FROM FOUNDATIONS INTO PIERS, OR WALLS SHALL BE THE SAME SIZE AND NUMBER AS REINFORCEMENT IN PIERS, OR WALLS ABOVE, UNLESS NOTED OTHERWISE.
- F11. NO CONCRETE SHALL BE PLACED UNDER WATER OR ON FROZEN SUBGRADE. PROTECT IN-PLACE FOUNDATIONS AND SLABS FROM FROST PENETRATION UNTIL PROJECT IS COMPLETED.
- F12. DO NOT BACK FILL FOUNDATION WALLS RETAINING EARTH UNTIL WALLS HAVE REACHED THEIR 28 DAY STRENGTHS.

CAST-IN-PLACE CONCRETE (SECTION 033000)

- C1. CONCRETE WORK SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318 - 14).
- C2. CONCRETE SHALL BE CONTROLLED, PROPORTIONED, MIXED, AND PLACED IN THE PRESENCE OF THE APPROVED TESTING AGENCY.
- C3. CONCRETE QUALITY IN ACCORDANCE WITH THE REQUIREMENTS OF THESE DRAWINGS AND SPECIFICATIONS IS ESSENTIAL TO THE STRUCTURAL PERFORMANCE OF THE BUILDING. CONCRETE THAT IS NOT IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS WILL NOT BE ACCEPTED.
- C4. CONCRETE EXPOSED TO WEATHER SHALL CONTAIN AN AIR ENTRAINMENT ADMIXTURE.
- C5. NORMAL WEIGHT CONCRETE SHALL HAVE AN AIR-DRY UNIT WEIGHT OF 145 PCF.
- C6. CONCRETE MINIMUM 28-DAY STRENGTH, UNLESS NOTED OTHERWISE, SHALL CONFORM TO FOLLOWING:
A. FOOTINGS 4000 PSI (NORMAL WEIGHT)
B. FOUNDATION WALLS: 4000 PSI (NORMAL WEIGHT)
C. SLABS ON GRADE: 4000 PSI (NORMAL WEIGHT)
D. EXTERIOR SLABS & SITE WALLS SUBJECT TO DE-ICING SALTS: 5000 PSI (NORMAL WEIGHT)
- C7. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, DEFORMED BARS. LAP ALL CONTINUOUS BARS A MINIMUM OF 40 DIAMETERS, UNLESS NOTED. PROVIDE MATCHING CORNER AND INTERSECTION BARS.
- C8. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064 IN FLAT SHEETS. LAP ONE AND ONE-HALF SQUARES AT ALL JOINTS AND TIE AT 3'-0" o.c. AT SLAB ON GRADE, PLACE WELDED WIRE FABRIC ON SLAB BOLSTERS WITH SAND PLATES SPACED AT 3'-0" o.c. EACH WAY. PROVIDE 6x6 W1.4x1.4 WELDED WIRE REINFORCEMENT IN CONCRETE STAIR TREADS AND LANDINGS.
- C9. PROVIDE CLASS B SPLICES FOR ALL TENSION SPLICES IN SLABS, UNLESS NOTED OTHERWISE.
- C10. PROVIDE REINFORCING STEEL DETAILING, LAP SPLICES, EMBEDMENTS, BAR SUPPORTS, SPACERS, AND ACCESSORIES AS RECOMMENDED IN THE LATEST EDITION OF THE "ACI DETAILING MANUAL". ACCESSORIES, SUCH AS SLAB BOLSTERS AND BEAM AND SLAB CHAIRS, IN CONTACT WITH EXPOSED SURFACES, SHALL BE ZINC COATED AND PLASTIC TIPPED.
- C11. REINFORCING STEEL DETAILS NOT SHOWN ON THE DRAWINGS SHALL BE IN ACCORDANCE WITH THE "ACI DETAILING MANUAL".
- C12. CLEAR CONCRETE COVER FOR REINFORCING BARS OR WELDED WIRE FABRIC SHALL CONFORM TO THE FOLLOWING, UNLESS NOTED:
A. FOOTINGS 3"
B. FOUNDATION WALLS: 1-1/2"
C. INTERIOR SLABS ON GRADE: 1-1/2" FROM TOP
D. EXTERIOR SLABS ON GRADE: MID-DEPTH
- C13. SET AND TIE ALL REINFORCING STEEL BEFORE PLACING CONCRETE. SETTING DOWELS AND REINFORCING STEEL INTO WET CONCRETE IS PROHIBITED.
- C14. NO REINFORCING STEEL SHALL BE CUT OR OMITTED IN THE FIELD BECAUSE OF CONFLICT WITH SLEEVES, DUCT OPENINGS, OR RECESSES. REINFORCING STEEL MAY BE MOVED ASIDE WITHOUT CHANGE IN LEVEL, WITH THE APPROVAL OF THE ARCHITECT.
- C15. NO CONCRETE SHALL BE PLACED BEFORE REVIEW AND APPROVAL OF THE REINFORCING STEEL AND EMBEDDED ITEMS HAVE BEEN OBTAINED FROM THE ARCHITECT.
- C16. NO CHASES, RECESS, OPENINGS, OR SLEEVES SHALL BE INSTALLED IN CONCRETE WITHOUT APPROVAL OF THE ARCHITECT.
- C17. NO CONDUITS SHALL BE PLACED IN CONCRETE SLABS ON GRADE.
- C18. KEYS SHALL BE A MINIMUM OF 2" x 4" WITH BEVELED SIDES, UNLESS NOTED OTHERWISE.
- C19. DOWELS SHALL BE SET BY TEMPLATE. SET EMBEDDED ITEMS FOR CONNECTION OF OTHER WORK ACCURATELY.
- C20. HORIZONTAL CONSTRUCTION JOINTS SHALL BE AS INDICATED ON THE DRAWINGS. VERTICAL CONSTRUCTION JOINTS SHALL BE APPROVED BY THE ARCHITECT. CONSTRUCTION JOINTS SHALL BE FORMED WITH A STANDARD KEY AND ALL REINFORCING STEEL EXTENDED A MINIMUM OF 40 DIAMETERS, UNLESS NOTED. ALL CONSTRUCTION JOINTS BELOW GRADE SHALL HAVE CONTINUOUS BENTONITE WATERSTOPS.
- C21. CONSTRUCTION AND CONTROL JOINT LOCATIONS OTHER THAN THOSE SHOWN ON THE DRAWINGS MAY BE PERMITTED SUBJECT TO THE PRIOR APPROVAL OF THE ARCHITECT.
- C22. SEE ARCHITECTURAL AND SITE DRAWINGS FOR FINISHES, DEPRESSIONS, REGLETS, NOTCHES, AND OTHER ARCHITECTURAL FEATURES.
- C23. PROVIDE CONCRETE PADS FOR MECHANICAL EQUIPMENT ACCORDING TO THE REQUIREMENTS OF THE MANUFACTURER AND IN ACCORDANCE WITH THE TYPICAL DETAILS. COORDINATE LOCATIONS WITH M.E.P. WORK.
- C24. PROVIDE SEALANT FOR ALL EXPOSED-TO-VIEW CONSTRUCTION JOINTS, CONTROL JOINTS, AND SHEAR KEYS.
- C25. EXPOSED EDGES OF CONCRETE ELEMENTS SHALL HAVE A 1-INCH CHAMFER UNLESS NOTED OTHERWISE.
- C26. NOT ALL OPENINGS THROUGH CONCRETE SLABS AND WALLS ARE SHOWN ON STRUCTURAL DRAWINGS. OPENINGS INDICATED, OR ANY ADDITIONAL OPENINGS OR INSERTS REQUIRED, SHALL BE VERIFIED WITH RESPECTIVE TRADES PRIOR TO PLACING CONCRETE.
- C27. FLOOR SLABS SHALL BE PLACED TO THE REQUIRED ELEVATIONS, INCLUDING TOLERANCES FOR FLATNESS AND LEVELNESS. SLAB THICKNESSES INDICATED ARE MINIMUM.

UNIT MASONRY (SECTION 042000)

- M1. CONCRETE MASONRY CONSTRUCTION WORK SHALL CONFORM TO LATEST EDITION OF TMS 402 "BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES". CONCRETE MASONRY WALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH LOW LIFT GROUTING METHOD.
- M2. CONCRETE MASONRY STRENGTH (f'm) SHALL NOT BE LESS THAN 1500 PSI WITH SPECIAL INSPECTION.
- M3. CONCRETE MASONRY UNITS (CMU) SHALL CONFORM TO ASTM C90, NORMAL WEIGHT, TYPE 1 AND TO NCMA "REQUIREMENTS FOR LOAD BEARING CONCRETE MASONRY". COMPRESSIVE STRENGTH SHALL BE AS REQUIRED FOR SPECIFIED CONCRETE MASONRY STRENGTH (f'm), BUT NOT LESS THAN 1900 PSI FOR THE AVERAGE OF 3 UNITS OR 1700 PSI FOR AN INDIVIDUAL UNIT, BASED ON THE AVERAGE NET AREA.
- M4. MORTAR FOR REINFORCED CMU SHALL CONFORM TO ASTM C270, TYPE M OR S, AND HAVE A 28-DAY COMPRESSIVE STRENGTH EQUAL TO THE SPECIFIED CONCRETE MASONRY STRENGTH (f'm), BUT NOT LESS THAN 1800 PSI.
- M5. GROUT SHALL CONFORM TO ASTM C476, FINE TYPE, AND HAVE A 28-DAY COMPRESSIVE STRENGTH EQUAL TO THE SPECIFIED CONCRETE MASONRY STRENGTH (f'm), BUT NOT LESS THAN 3000 PSI.
- M6. GROUTING SHALL BE LIMITED TO A MAXIMUM WALL HEIGHT OF 5'-4" PER LIFT.
- M7. HORIZONTAL JOINT REINFORCEMENT SHALL CONFORM TO ASTM A82, LADDER TYPE, #9 WIRE. PROVIDE PREFABRICATED CORNERS AND TEES.
- M8. MINIMUM HORIZONTAL JOINT REINFORCEMENT FOR WALLS AND PARTITIONS SHALL BE #9 WIRE SPACED VERTICALLY AT 16" o.c. AT A MINIMUM. PROVIDE CONTINUOUS BOND BEAMS, WITH 2-#5 HORIZONTAL AND CONTINUOUS BARS, AT EACH FLOOR LEVEL AND AT THE TOP OF WALL.
- M9. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, DEFORMED BARS. LAP ALL CONTINUOUS BARS A MINIMUM OF 48 DIAMETERS.
- M10. THE TOP OF CMU WALLS AND PARTITIONS SHALL BE ANCHORED AS SHOWN IN THE TYPICAL DETAILS AND THE SECTIONS.
- M11. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR REQUIRED FIRE RATINGS.

STRUCTURAL STEEL FRAMING (SECTION 051200)

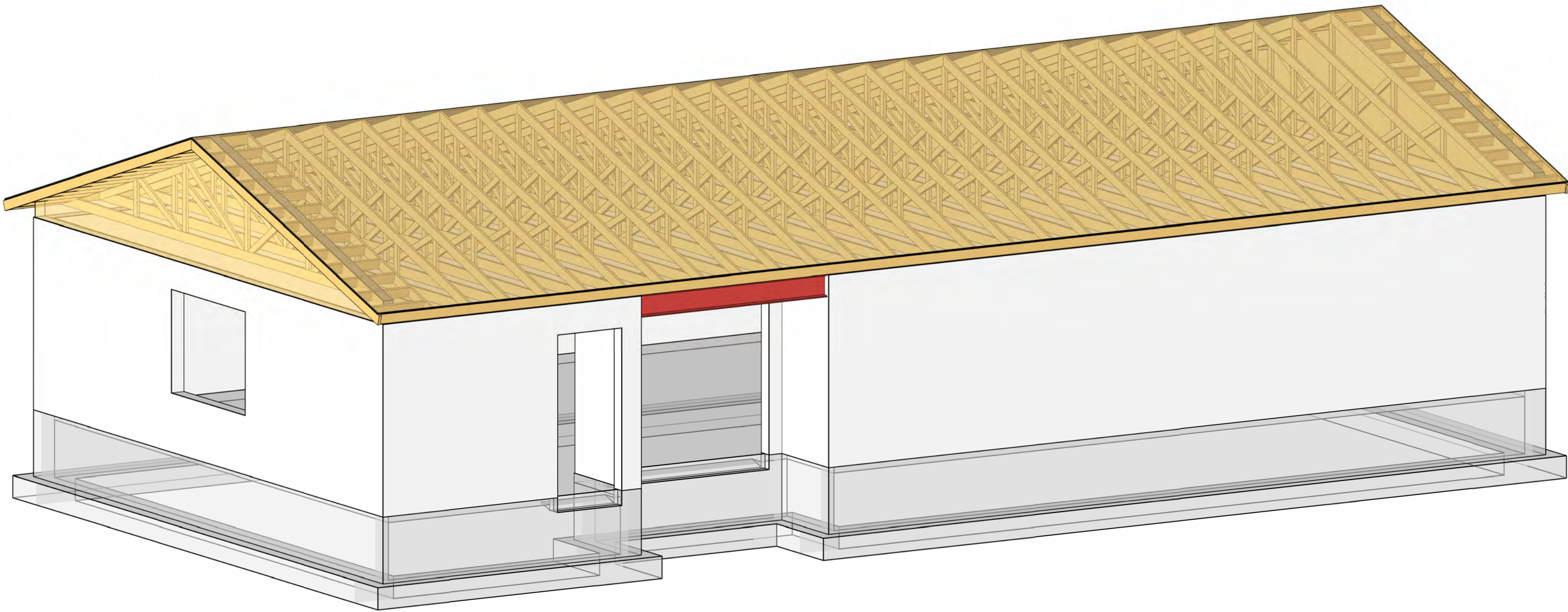
- S1. STRUCTURAL STEEL WORK SHALL CONFORM TO THE LATEST EDITIONS OF AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AND AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES". AS MODIFIED BY THE SPECIFICATIONS.
- S2. WELDING SHALL BE IN ACCORDANCE WITH THE LATEST AWS "D1.1: STRUCTURAL WELDING CODE-STEEL".
- S3. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING, UNLESS NOTED:
A. W, WT, C, AND MC SHAPES: ASTM A992 F_y = 50KSI
B. ALL OTHER STRUCTURAL SHAPES: ASTM A572 F_y = 50KSI
- S4. CONNECTIONS MAY BE BOLTED OR WELDED, UNLESS SPECIFICALLY NOTED OTHERWISE. CONNECTIONS SHALL BE DESIGNED AND DETAILED IN ACCORDANCE WITH AISC STANDARDS, USING THE ASD METHOD.
- S5. CONNECTIONS SHALL BE WELDED TO CONFORM WITH AWS D1.1, OR BOLTED TO CONFORM TO ASTM F3125, TYPE N BOLTS.
- S6. SPLICING STRUCTURAL MEMBERS WHERE NOT DETAILED ON DRAWINGS IS PROHIBITED WITHOUT PRIOR APPROVAL OF ARCHITECT.
- S7. STRUCTURAL STEEL EXPOSED TO THE WEATHER IN THE FINISHED PROJECT SHALL BE HOT DIP GALVANIZED TO CONFORM TO ASTM A123.
- S8. REFER TO THE SPECIFICATION FOR PAINTING AND SURFACE PREPARATION REQUIREMENTS.
- S9. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY GUYING AND BRACING REQUIRED TO ERECT AND HOLD THE NEW STRUCTURE FOR WIND AND CONSTRUCTION LOADS. TEMPORARY SUPPORTS SHALL REMAIN IN PLACE UNTIL ALL ELEMENTS REQUIRED FOR STABILITY OF THE STEEL FRAME ARE COMPLETED.

ROUGH CARPENTRY (SECTION 061000)

- RC1. STRUCTURAL LUMBER SHALL CONFORM TO THE LATEST EDITION OF AWS NDS "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" AND "NDS SUPPLEMENT". MAXIMUM MOISTURE CONTENT SHALL BE 19%.
- RC2. SAWN LUMBER SHALL BE SPRUCE-PINE-FIR NO. 2 OR BETTER, INCLUDING JOISTS, RAFTERS, BEAMS, STUDS, POSTS AND PLATES.
- RC3. WOOD EXPOSED TO WEATHER SHALL BE PRESERVATIVE PRESSURE TREATED SOUTHERN PINE NO. 2 OR BETTER. BOLTS IN PRESERVATIVE PRESSURE TREATED WOOD SHALL BE HOT DIP GALVANIZED. NAILS IN PRESERVATIVE PRESSURE TREATED WOOD SHALL BE STAINLESS STEEL.
- RC4. WALL SHEATHING SHALL BE A MINIMUM OF 1/2" NOMINAL (1/32" ACTUAL) EXTERIOR GRADE (EXPOSURE 1) APA RATED STRUCTURAL 1 PLYWOOD SHEATHING WITH 8d NAILS 6" o.c. AT EDGES AND 12" o.c. AT INTERMEDIATE SUPPORTS. BLOCK ALL EDGES OF PLYWOOD WALL SHEATHING.
- RC5. ALL WALL STUDS SHALL BE BLOCKED AT 4'-0" o.c. MAX AND AT ALL PLYWOOD EDGES.
- RC6. FLUSH FRAMED CONNECTIONS SHALL HAVE METAL BEAM OR JOIST HANGERS, MANUFACTURED BY SIMPSON STRONG-TIE CO., INC., OR EQUAL.
- RC7. ROOF SHEATHING SHALL BE A MINIMUM OF 5/8" NOMINAL (1/32" ACTUAL) EXTERIOR GRADE (EXPOSURE 1) APA RATED STRUCTURAL 1 PLYWOOD SHEATHING WITH 10d NAILS 6" o.c. AT EDGES AND 12" o.c. AT INTERMEDIATE SUPPORTS. PROVIDE METAL "H" CLIPS AT PANEL EDGES.
- RC8. PLYWOOD SHALL HAVE STAGGERED JOINTS AND NAILS SHALL BE THREADED. ALL PLYWOOD SHEATHING SHALL BE INSTALLED WITH THE FACE GRAIN PERPENDICULAR TO THE SUPPORTS.
- RC9. NAILING SHALL BE IN ACCORDANCE WITH THE 2018 INTERNATIONAL BUILDING CODE TABLE 2304.10.2, UNLESS OTHERWISE NOTED.
- RC10. PROVIDE SOLID BLOCKING BETWEEN RAFTERS AND TRUSSES OVER BEARING WALLS OR SUPPORTING BEAMS.
- RC11. PROVIDE METAL HURRICANE ANCHORS AT ALL ROOF RAFTERS TO PLATE CONNECTIONS.
- RC12. FRAME ALL OPENINGS IN ROOF CONSTRUCTION WITH MINIMUM OF 2 - 2x HEADERS AND TRIMMERS (DEPTH TO MATCH THE ADJACENT FRAMING) WITH METAL JOIST/BEAM HANGERS, UNLESS OTHERWISE NOTED.
- RC13. NOTCHING OF JOISTS, BEAMS, STUDS OR PLATES SHALL NOT BE PERMITTED.

METAL PLATE CONNECTED WOOD TRUSSES (SECTION 061753)

- WT1. ALL METAL PLATE CONNECTED WOOD TRUSS WORK SHALL CONFORM TO THE LATEST EDITIONS OF TPI TPI-1 "NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION" AND DSB "NATIONAL DESIGN STANDARD FOR BRACING METAL PLATE CONNECTED WOOD TRUSSES".
- WT2. METAL PLATE CONNECTED WOOD TRUSSES SHALL BE DESIGNED FOR THE STRUCTURAL LOADS INDICATED ON THE DRAWINGS. TOTAL AND LIVE LOAD DEFLECTIONS SHALL BE LIMITED AS FOLLOWS (UNLESS OTHERWISE INDICATED ON THE DRAWINGS):
SNOW LOAD DEFLECTION: $< L/480$
TOTAL LOAD DEFLECTION: $< L/360$
- WT3. SUBMIT COMPLETE SHOP DRAWINGS (ERECTION PLANS, MEMBER DETAILS, MEMBER CONNECTIONS, CONNECTIONS BETWEEN MEMBERS AND SUPPORTS, BRACING, ETC.) AND CALCULATIONS FOR ALL TRUSSES AND CONNECTIONS, INCLUDE DETAILED LOAD COMBINATIONS FOR ALL CALCULATIONS. ALL CALCULATIONS AND SHOP DRAWINGS SHALL BE PREPARED BY AND BEAR THE STAMP OF A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE THAT THE PROJECT IS LOCATED IN. FINAL DESIGN OF ALL TRUSSES SHALL BE PROVIDED BY THE DESIGNER/FABRICATOR.
- WT4. IN ADDITION TO THE SNOW LOADS AND WIND LOADS LISTED UNDER STRUCTURAL LOADS (THIS SHEET), ROOF TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING DEAD AND LIVE LOADS APPLIED TO THE TOP CHORD (TC) AND BOTTOM CHORD (BC):
SNOW LOAD: 35 PSF (TC), 20 PSF (BC)
DEAD LOAD: 10 PSF (TC), 10 PSF (BC)
- WT5. CONNECTIONS BETWEEN TRUSSES AND AT TRUSSES TO SUPPORTS SHALL BE SELECTED TO EXCEED THE LOADS FROM THE TRUSS CALCULATIONS. SUBMIT COMPLETE MANUFACTURER'S DATA FOR ALL CONNECTIONS.
- WT6. ALL ROOF TRUSSES SHALL BE ANCHORED TO ALL SUPPORTS WITH HURRICANE TIES (SIMPSON "H" SERIES OR EQ.). SELECT MODEL TO EXCEED THE UPLIFT FORCE FROM THE TRUSS MANUFACTURER'S CALCULATIONS.
- WT7. TRUSS WEB CONFIGURATIONS SHOWN ON THE TRUSS ELEVATIONS ARE SCHEMATIC ONLY. FINAL WEB CONFIGURATIONS SHALL BE DETERMINED BY THE TRUSS DESIGNER/FABRICATOR. COORDINATE WEB MEMBER LOCATIONS WITH M.E.P. AND ACCESS REQUIREMENTS SHOWN ON THE DRAWINGS. FIELD MODIFICATION OF TRUSSES TO FACILITATE THE INSTALLATION OF MEP UNITS OR PIPING IS NOT PERMITTED.
- WT8. TRUSS CHORDS AND WEB MEMBERS SHALL BE 15% MAXIMUM MOISTURE CONTENT. MINIMUM CHORD SIZES SHALL BE AS SHOWN ON THE TRUSS ELEVATIONS ON DRAWING S-101. MINIMUM WEB MEMBER SIZES SHALL BE 2x4.
- WT9. ALL TRUSSES SHALL BE SECURELY BRACED BOTH DURING ERECTION AND AFTER PERMANENT INSTALLATION OF CONTINUOUS LATERAL BRACING REQUIRED ON THE DRAWINGS. THE SHOP DRAWINGS, BY THE TPI DSB "NATIONAL DESIGN STANDARD FOR BRACING METAL PLATE CONNECTED WOOD TRUSSES" OR AS DIRECTED IN THE FIELD BY THE ARCHITECT.
- WT10. BOTTOM CHORD CONTINUOUS LATERAL BRACING (CLB) SHALL BE PROVIDED AT LOCATIONS NOTED ON THE DRAWINGS. AT A MINIMUM, PROVIDE 2x4 CLB TO BOTTOM CHORDS OF ALL TRUSSES AT 6'-0" o.c. MAX. SPACING.
- WT11. WEB TRUSS-TO-TRUSS CONTINUOUS LATERAL BRACING (CLB) SHALL BE DETERMINED BY THE TRUSS DESIGNER. HOWEVER, ALL WEB MEMBERS HAVING A LENGTH LESS THAN 8'-0" (FROM WORKING POINT TO WORKING POINT) SHALL BE DESIGNED SO THAT WEB BRACING/LATERAL RESTRAINT IS NOT REQUIRED. MEMBERS REQUIRING WEB CLB SHALL BE INDICATED ON THE FINAL TRUSS SHOP DRAWINGS.
- WT12. CONTINUOUS LATERAL BRACING LINES SHALL BE RESTRAINED WITH DIAGONAL ARROWHEAD, OR 'X' BRACING AT EACH END AND AT 20'-0" MAX BETWEEN, PER TPI DSB, AND AS SHOWN ON THE DRAWINGS. ALL BRACING SHALL BE CONTINUOUS TO ANCHORAGE POINTS CAPABLE OF RESISTING THE APPLIED LOAD.



STRUCTURAL FRAMING MODEL

FBRA STRUCTURAL DRAWING LIST	
Drawing Number	Drawing Name
S-001	GENERAL NOTES
S-002	TYPICAL DETAILS I
S-003	TYPICAL DETAILS II
S-004	TYPICAL DETAILS III
S-101	FOUNDATION AND ROOF FRAMING PLANS
S-201	SECTIONS

SCHEMATIC FRAMING DIAGRAM

THREE DIMENSIONAL FRAMING DIAGRAM IS
SCHEMATIC ONLY.
-REFER TO THE PLANS, SECTIONS AND
ELEVATIONS FOR SPECIFIC DETAILS.

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No. | Submittal / Revision | App'd. By | Date

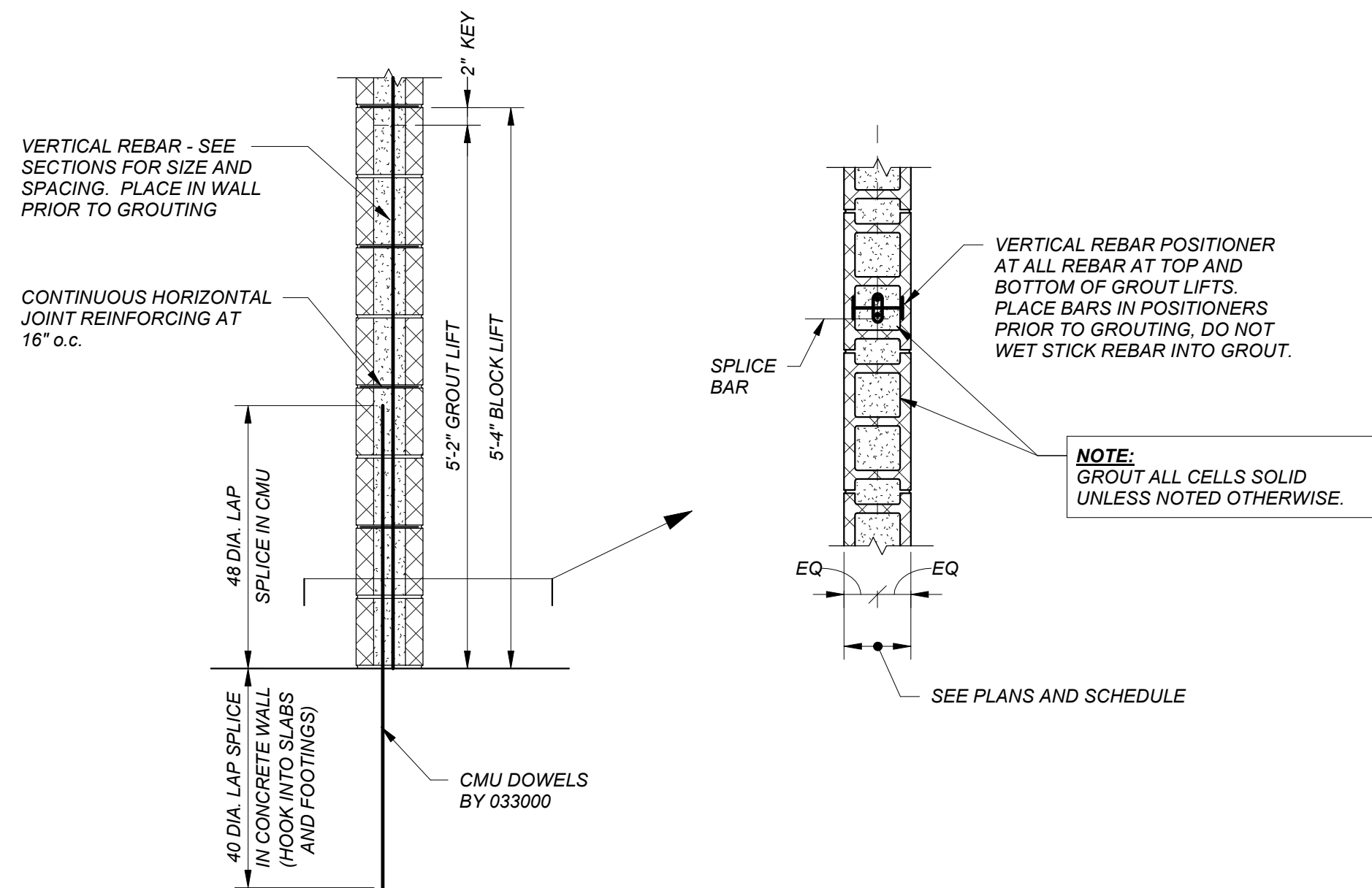
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GENERAL NOTES

Designed By: DPM
Issue Date: 10/15/2025
Drawn By: KMM
Project No: 090475
Checked By: DPM
Scale: AS SHOWN

Drawing No:
S-001

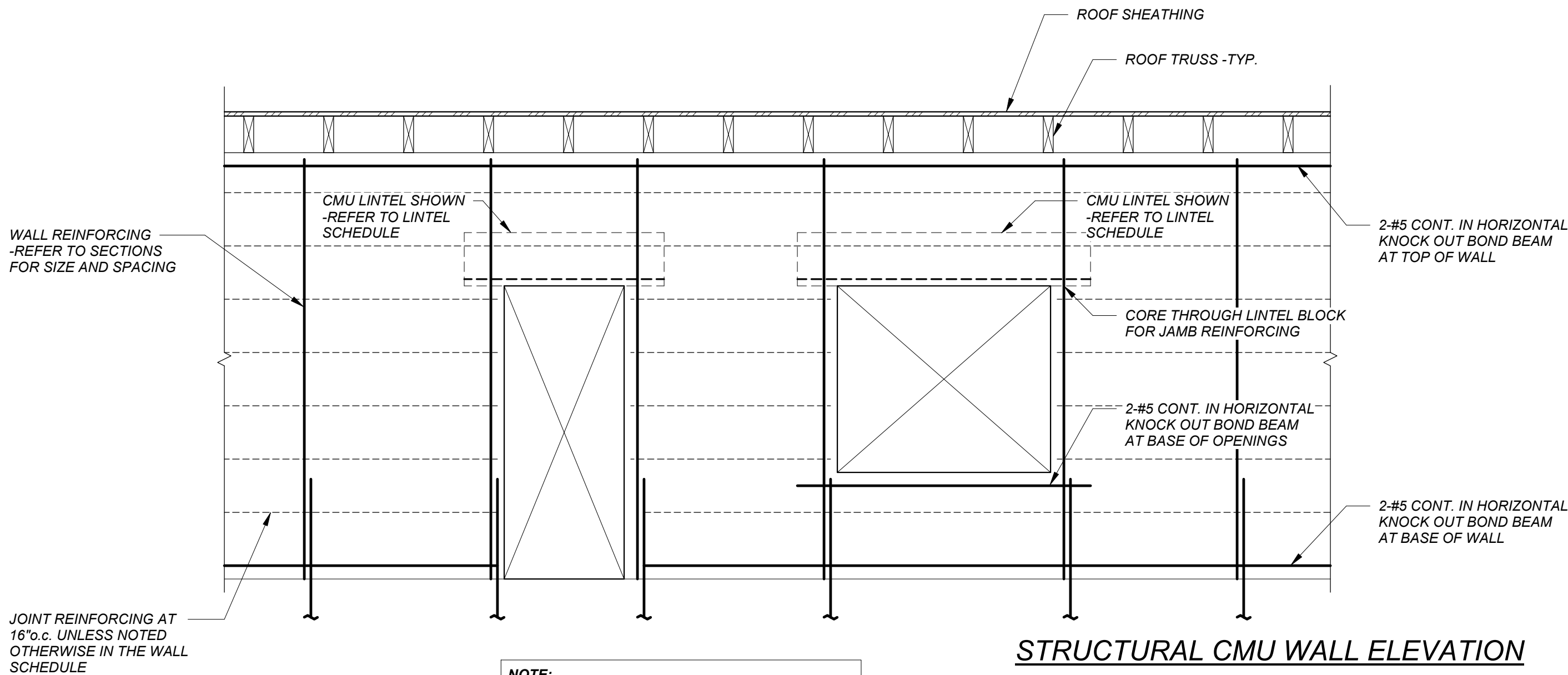
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STRUCTURAL CMU WALL GENERAL CONSTRUCTION

MASONRY CONSTRUCTION

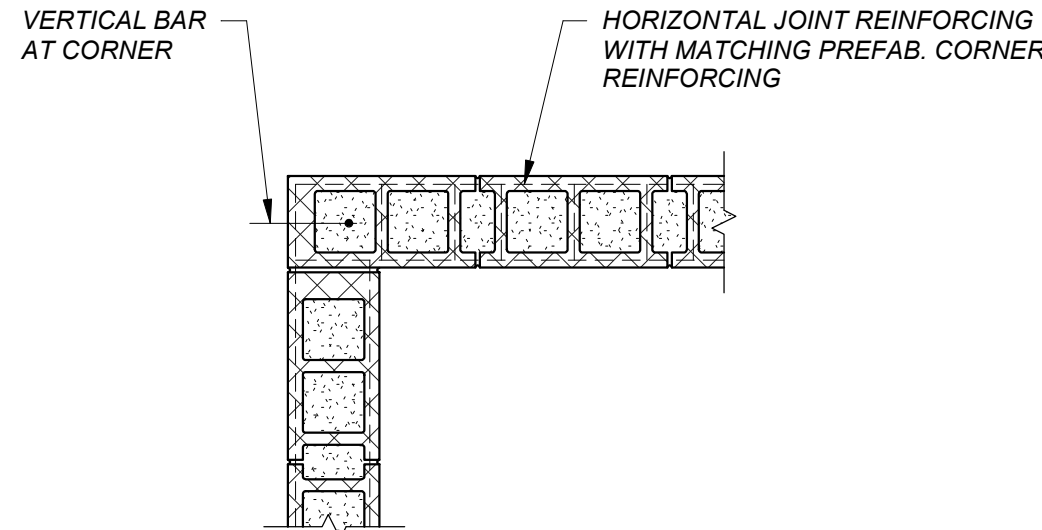
M1



STRUCTURAL CMU WALL ELEVATION

MASONRY CONSTRUCTION

M2

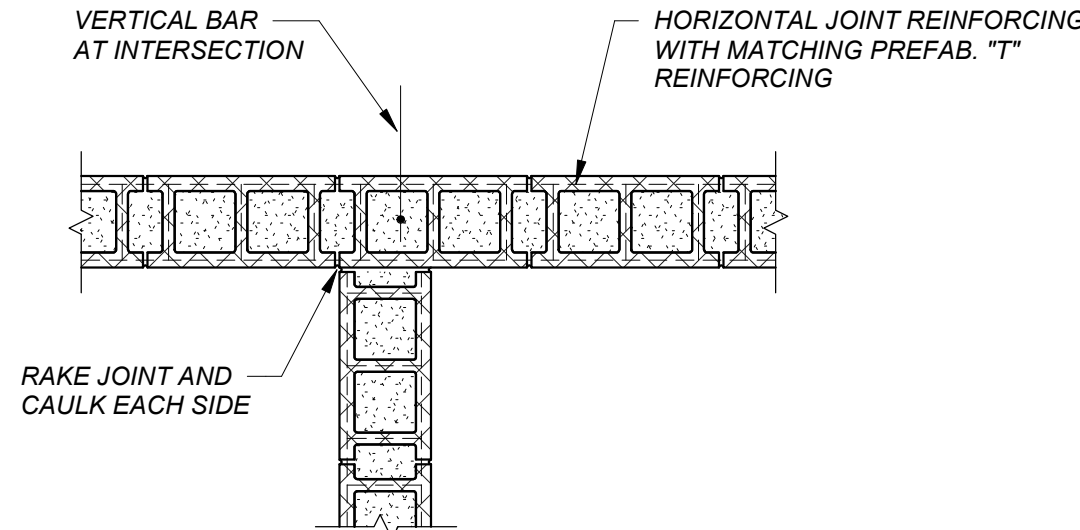


NOTE: PROVIDE MATCHING CORNER AND INTERSECTION DOWELS AT ALL BOND BEAMS. INTERLOCK CMU CELLS AT CORNER.

CMU WALL CORNER

MASONRY CONSTRUCTION

M3

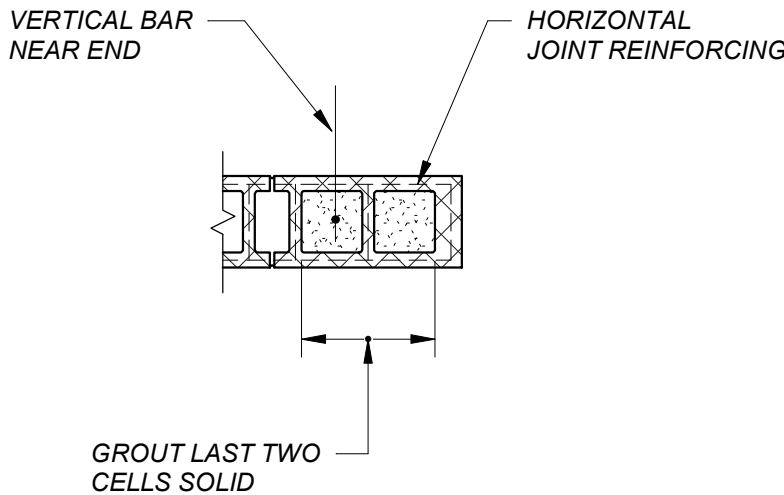


NOTE: PROVIDE MATCHING CORNER AND INTERSECTION DOWELS AT ALL BOND BEAMS. (NOT SHOWN) INTERLOCK CMU CELLS AT CORNER.

CMU WALL INTERSECTION

MASONRY CONSTRUCTION

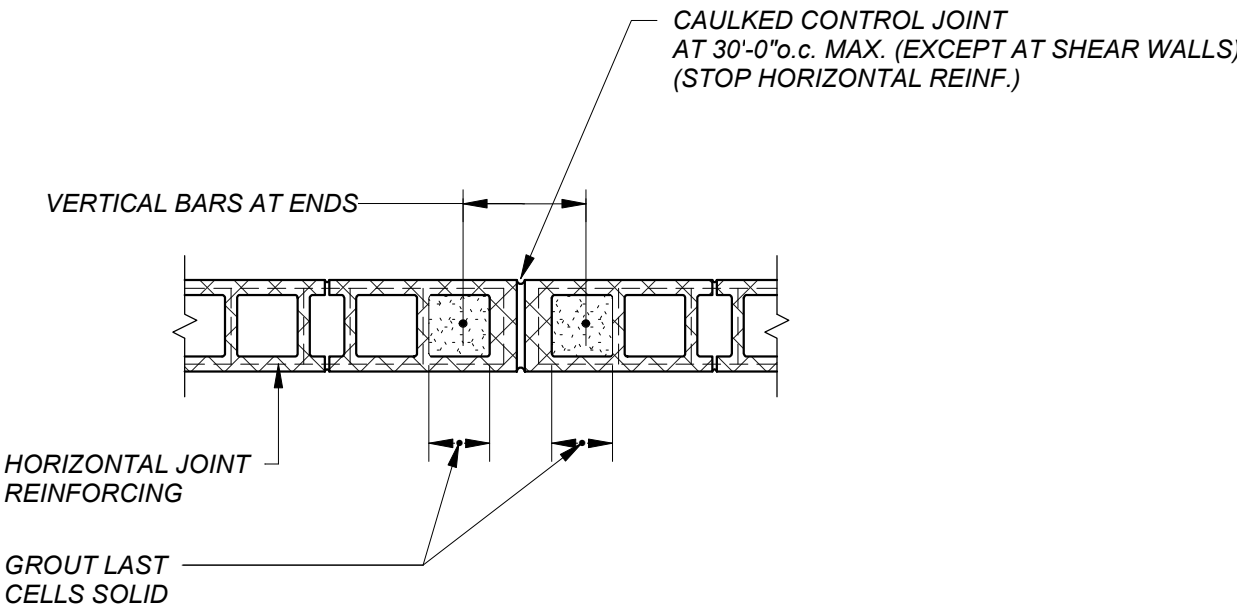
M4



CMU WALL END AND JAMB

MASONRY CONSTRUCTION

M5



SEE PLANS FOR LOCATIONS

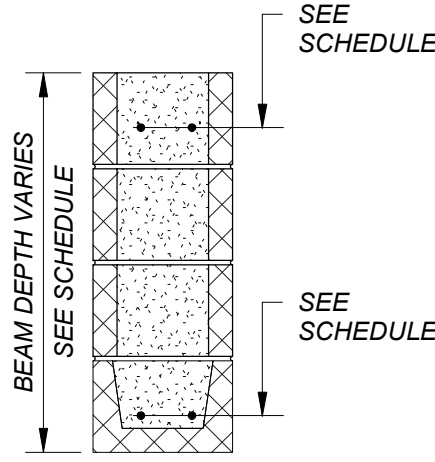
CMU WALL CONTROL JOINT

MASONRY CONSTRUCTION

M6

CMU LINTEL BEAM SCHEDULE		
MASONRY OPENING	DEPTH	REINFORCING
IN 8" WALLS		
UP TO 4'-0"	2 COURSES	2-#5
4'-1" TO 6'-0"	3 COURSES	2-#5
6'-1" TO 10'-0"	4 COURSES	2-#5 TOP & BOT.
10'-1" TO 14'-0"	5 COURSES	2-#7 TOP & BOT.

- NOTES:
1. PLACE REINFORCING IN THE FIRST COURSE ABOVE OPENING.
 2. PROVIDE 12" OF BEARING EACH END ON SOLID GROUTED CMU.
 3. PROVIDE TEMPORARY SHORING AS REQUIRED UNTIL LINTEL HAS REACHED FULL 28 DAY STRENGTH.



SECTION

CMU LINTEL BEAM SCHEDULE

MASONRY CONSTRUCTION

M18

		TYPICAL WALL REINFORCING			JAMB SIZES AND REINFORCING ⁽¹⁾ (SEE DETAIL ABOVE) FOR OPENINGS:						
TYPE	WALL DESCRIPTION	f _m (psi)	VERTICAL ⁽¹⁾ REINFORCING	HORIZONTAL REINFORCING		TO 4'-0"		TO 6'-4"		TO 10'-0"	
				BOND BEAM ⁽²⁾	JOINT	WIDTH	REBAR	WIDTH	REBAR	WIDTH	REBAR
A	8" EXTERIOR WALL	2000	#4@32"	2-#4 TOP	9 GA @16"	16"	2-#4	16"	2-#5	24"	3-#5

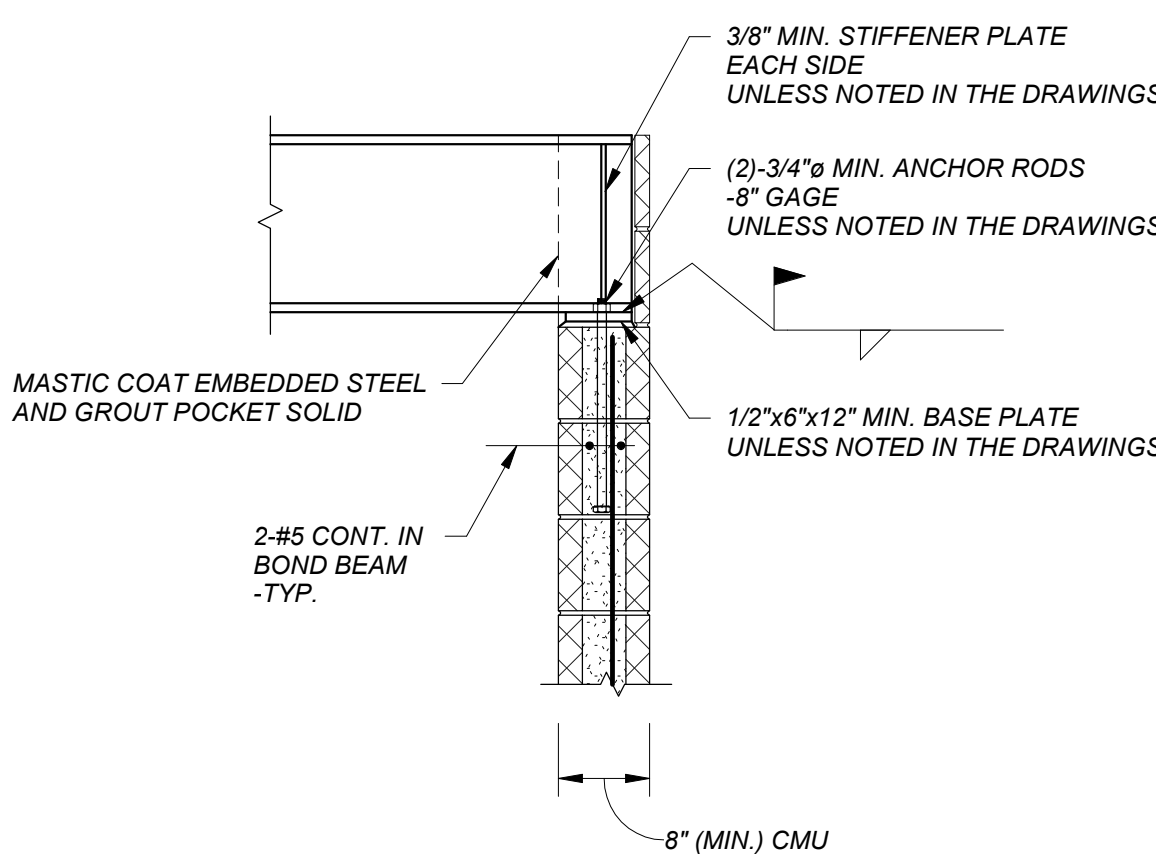
NOTES:

1. PROVIDE SINGLE LAYER OF VERTICAL REINFORCING CENTERED IN WALL EXCEPT WHERE NOTED E.F. (EACH FACE) POSITION BARS WITH A TWIN BAR POSITIONER.
2. PROVIDE BOND BEAMS AT TOP OF ALL WALLS AND BELOW ALL BEAM BEARING POCKETS.
3. ADDITIONAL REINFORCING REQUIRED AT CORNERS AND ENDS OF WALLS PER TYPICAL DETAILS.
4. SEE MASONRY LINTEL SCHEDULE FOR LINTEL REINFORCING REQUIREMENTS.
5. VERTICAL REINFORCING SHALL RUN THE FULL HEIGHT OF THE WALL. ALL CORES IN JAMB "WIDTH" SHALL BE GROUTED SOLID FULL HEIGHT.
6. VERTICAL AND HORIZONTAL REINFORCING REQUIREMENTS NOTED ABOVE ARE MINIMUM REQUIREMENTS. PROVIDE MORE STRINGENT REINFORCING REQUIREMENTS WHERE NOTED ON THE DRAWINGS.

STRUCTURAL CMU WALL REINFORCEMENT SCHEDULE

MASONRY CONSTRUCTION

M17

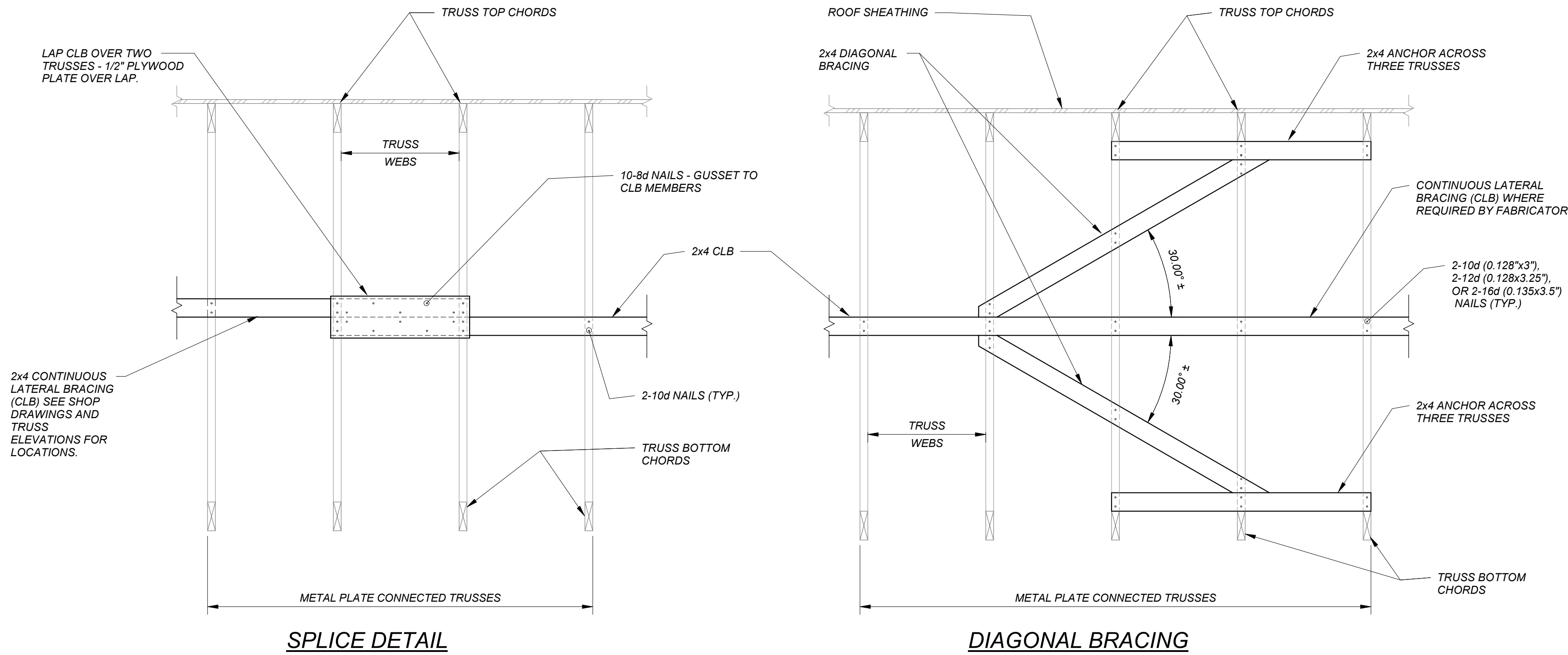


BEAM BEARING ON CMU

MASONRY CONSTRUCTION

M20

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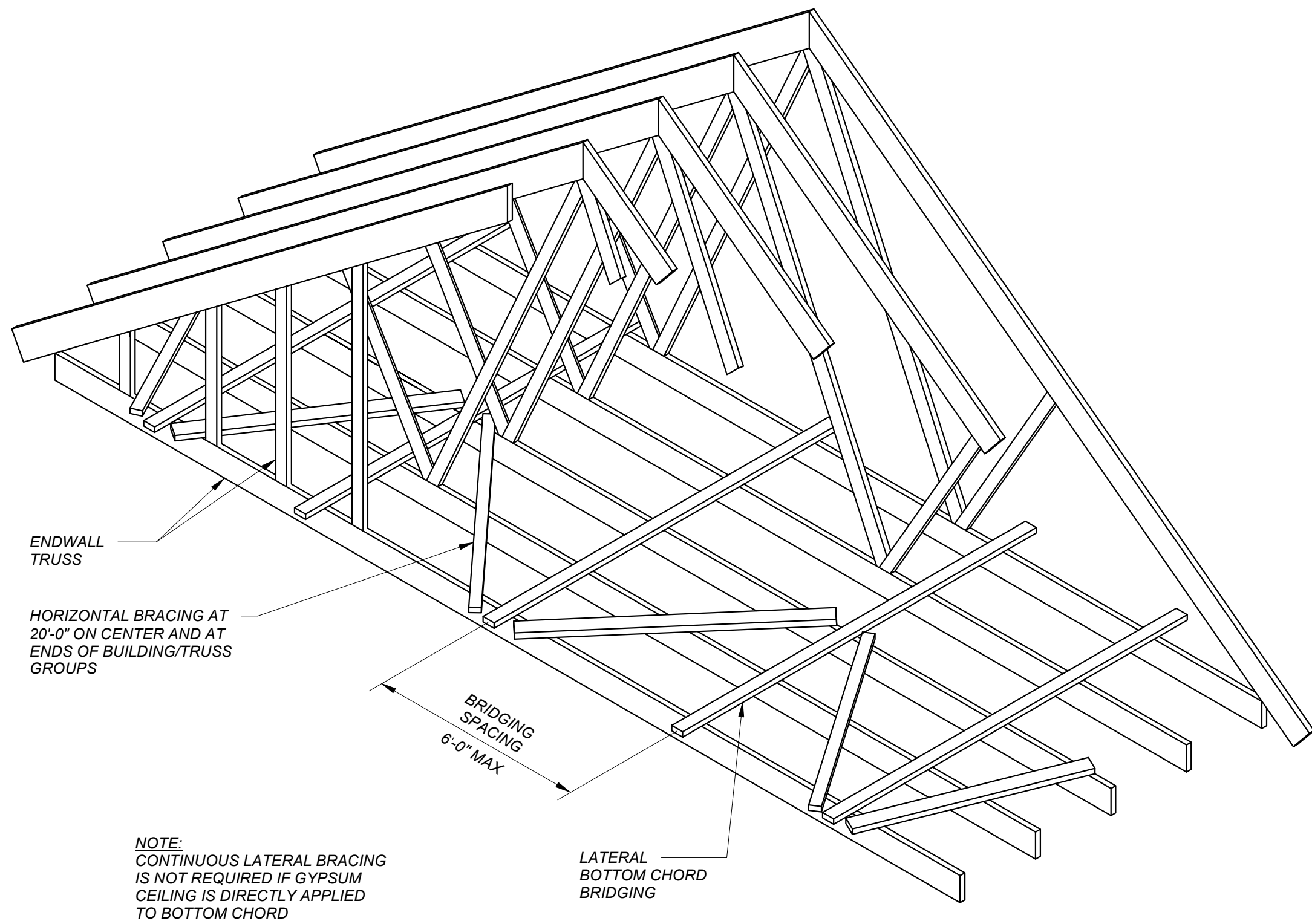
SPLICE DETAIL

DIAGONAL BRACING

NOTES:

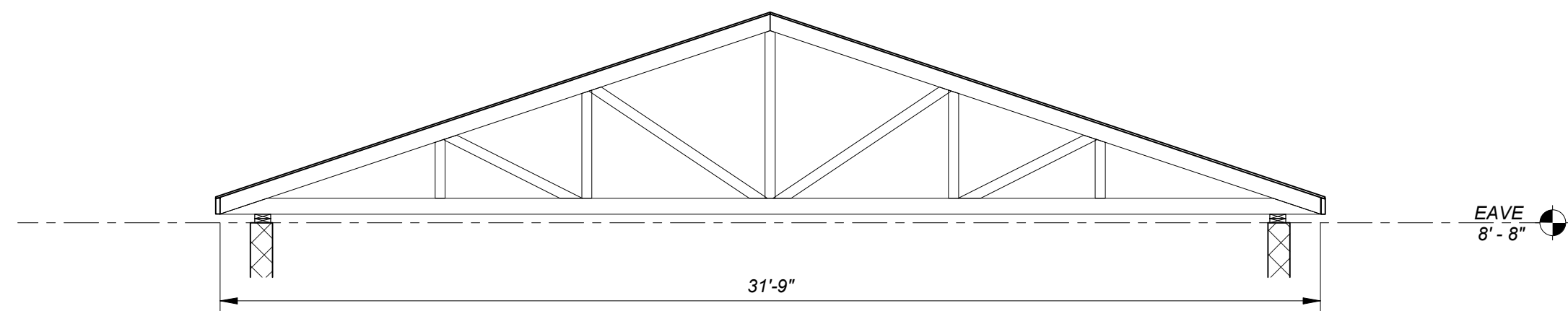
1. PROVIDE 1/2" PLYWOOD PLATE OVER LAP SPLICES IN CONTINUOUS LATERAL BRACING (CLB) LINES AS SHOWN.
2. PROVIDE DIAGONAL BRACES AND ANCHORS AS SHOWN AT 20'-0" MAXIMUM SPACING ALONG CLB LINES AND AT ENDS OF BUILDING OR TRUSS GROUPS.
3. TRUSS WEB MEMBERS TO RECEIVE CONTINUOUS LATERAL BRACING SHALL BE DESIGNATED ON THE SHOP DRAWINGS BY THE TRUSS DESIGN ENGINEER AND TAGGED ON THE WEB MEMBERS BY THE TRUSS MANUFACTURER.
4. PER 2018 IBC SECTION 2303.4.1.2, CONTINUOUS LATERAL BRACING (CLB) = PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT (PITMR).

**CONTINUOUS LATERAL BRACING (CLB)
WITH DIAGONAL BRACING TYPICAL DETAIL**



**TRUSS BOTTOM CHORD BRACING
TYPICAL DETAIL**

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TYPICAL METAL PLATE CONNECTED PRE-ENGINEERED WOOD ROOF TRUSS PROFILE
1/4" = 1'-0"

NOTES:

- FOR GENERAL NOTES AND TYPICAL DETAILS REFER TO DRAWINGS S-001 THROUGH S-004.
- R-1 INDICATES SPAN DIRECTION OF ROOF CONSTRUCTION CONSISTING OF 5/8" THICK, 4020 APA RATED SHEATHING WITH EXPOSURE 1 AND STRUCTURAL 1 RATINGS WITH METAL H-CLIPS AT PANEL EDGES BETWEEN SUPPORTS.
- PROVIDE (2)-2x6 FRAME AROUND EACH ROOF PENETRATION. COORDINATE DIMENSIONS AND LOCATIONS OF ALL ROOF DRAINS, VENTS, AND DUCT PENETRATIONS WITH ARCHITECTURAL AND M.E.P. DRAWINGS. NOTE THAT NOT ALL REQUIRED PENETRATIONS ARE SHOWN ON THE STRUCTURAL DRAWINGS.

PREFABRICATED CABLE-SUPPORTED CANOPY BY OTHERS - SEE ARCH DWG'S

CMU LINTEL BELOW PER SCHEDULE

CMU LINTEL BELOW PER SCHEDULE

METAL PLATE CONNECTED PRE-ENGINEERED ROOF WOOD TRUSSES
@2'-0" o.c.

ROOF FRAMING PLAN
1/4" = 1'-0"

NOTES:

- FOR GENERAL NOTES AND TYPICAL DETAILS REFER TO DRAWINGS S-001 THROUGH S-004.
- FOR TOP OF CONCRETE EL. SEE PLAN.
- ESTIMATED ELEVATION OF BOTTOM OF FOOTING IS INDICATED THUS [X'-X"] ON PLAN. BOTTOM OF EACH EXTERIOR FOOTING SHALL BE A MINIMUM OF 3'-4" BELOW ADJACENT FINISH GRADE.
- REFER TO ARCHITECTURAL DRAWINGS FOR DOOR THRESHOLDS AND SLOPING SLABS TO DRAINS.
- COORDINATE DIMENSIONS AND LOCATIONS OF ANY PIPES OR DUCTS TO BE PLACED UNDER OR THROUGH THE SLABS OR FOUNDATION WALL WITH ARCHITECTURAL AND MEP DRAWINGS.
- NON-LOAD BEARING PARTITIONS WALLS ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO THE ARCHITECTURAL DRAWINGS FOR LAYOUT OF PARTITION WALLS.

8" CMU EXTERIOR BEARING/SHEAR WALL -TYP.

6" SLAB ON GRADE
WITH 6x6 - W2.9xW2.9 W.W.F.
T.O. CONC. EL. 0'-0"

1 1/2" SAWCUT CONTROL JOINT
SPACED 15'-0" o.c. MAX.
(10'-0" o.c. MAX. AT EXPOSED CONCRETE AREAS) -TYP.

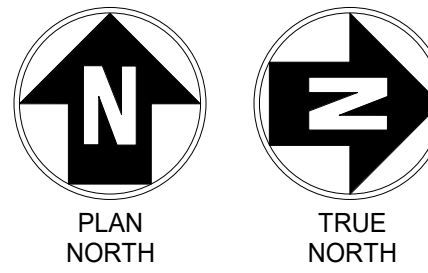
APPROACH SLAB
-SEE TYP. DETAILS

APPROACH SLAB
-SEE TYP. DETAILS

FOUNDATION PLAN
1/4" = 1'-0"

CONT. FOOTING SCHEDULE

TYPE	DIMENSIONS		REINFORCING
	WIDTH	DEPTH	
F2.0C	2'-0"	12"	(2) #5 BOT. CONT.



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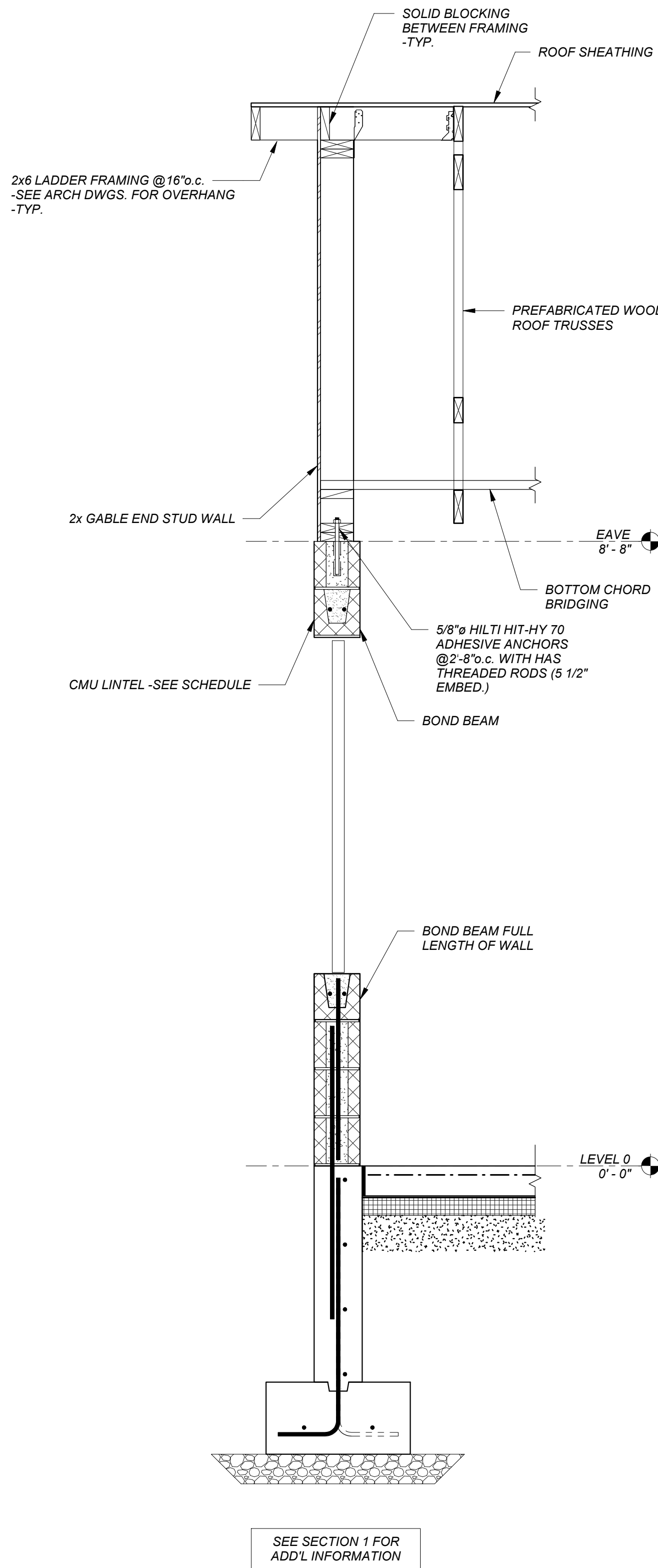
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FOUNDATION AND ROOF FRAMING PLANS

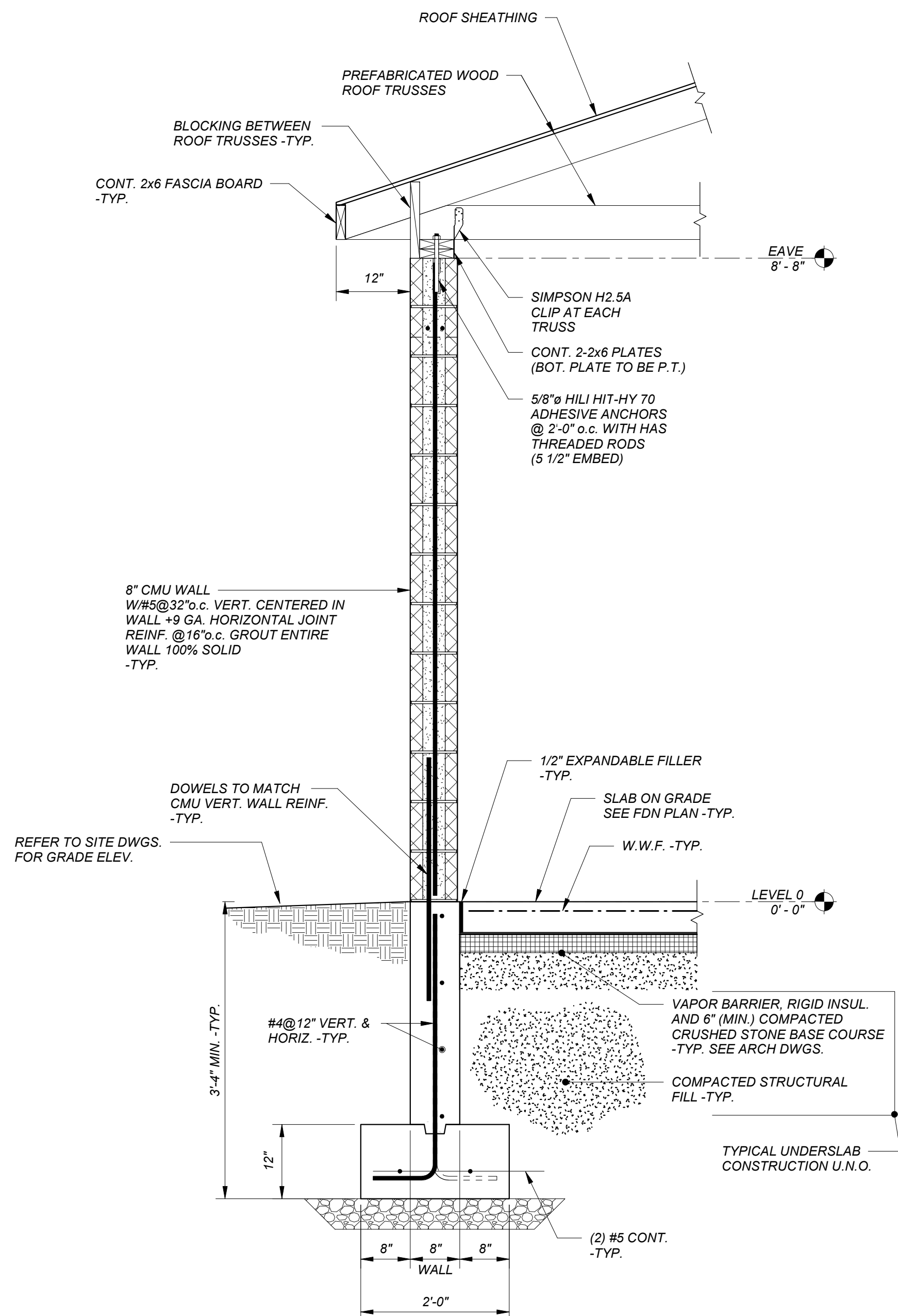
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Drawn By: KMM
Project No: 090475
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Scale: AS SHOWN

Drawing No:
S-101

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



1 SECTION
3/4" = 1'-0"

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RHODE ISLAND COLLEGE-
TRACK SUPPORT
BUILDING

No.	Submittal / Revision	App'd.	By	Date
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SECTIONS

Designed By: DPM	Drawn By: KMM	Checked By: DPM
Issue Date: 10/15/2025	Project No: 090475	Scale: AS SHOWN

Drawing No:

S-201

MECHANICAL ABBREVIATIONS	
ABS	ABSOLUTE
AC	ALTERNATING CURRENT
AD	ACCESS DOOR
AFF	ABOVE FINISH FLOOR
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
BHP	BRAKE HORSEPOWER
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
dB	DECIBEL
DB	DRY BULB
DN	DOWN
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
ELEV	ELEVATION
ESP	EXTERNAL STATIC PRESSURE
FF	FINISH FLOOR
FLA	FULL LOAD AMPS
FLR	FLOOR
FT	FOOT / FEET
FT HD	FEET OF HEAD
HP	HORSEPOWER OR HEAT PUMP
HZ	HERTZ
IN	INCHES
IN WG	INCHES WATER GAUGE
KW	KILOWATTS
LAT	LEAVING AIR TEMPERATURE
LBS/HR	POUNDS PER HOUR
LF	LINEAR FEET OR FOOT
MAX	MAXIMUM
MBH	BTU PER HOUR (THOUSAND)
MCA	MINIMUM CIRCUIT AMPS
MIN	MINIMUM
MIN SP	MINIMUM STATIC PRESSURE
MOCP	MAXIMUM OVERCURRENT PROTECTION
MTG HGT	MOUNTING HEIGHT
N/A	NOT APPLICABLE
NC	NOISE CRITERIA
N C	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N O	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
PD	PRESSURE DROP
PH	PHASE
PSI	POUNDS PER SQUARE INCH
PSIG	POUND-FORCE PER SQUARE INCH GAUGE
RA	RETURN AIR
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SP	STATIC PRESSURE
TMBH	TOTAL MBH
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VD	VOLUME DAMPER
VOLT	VOLTAGE
W	WATT
WB	WET BULB
WG	WATER GAGE
°F	DEGREES FAHRENHEIT
&	AND
#	NUMBER

MECHANICAL SYMBOLS	
	SUPPLY AIR DUCT UP
	RETURN / OUTSIDE AIR DUCT UP
	EXHAUST AIR DUCT UP
	SUPPLY AIR DUCT DOWN
	RETURN / OUTSIDE AIR DUCT DOWN
	EXHAUST AIR DUCT DOWN
	FLEXIBLE DUCT CONNECTION
	VOLUME CONTROL DAMPER IN DUCT
	FLEXIBLE DUCT, MAXIMUM LENGTH 4'-0"
	SUPPLY / OUTSIDE AIR SIDEWALL REGISTER / GRILLE
	RETURN / EXHAUST AIR SIDEWALL REGISTER / GRILLE
	MOTOR OPERATED DAMPER IN DUCT
	AIRFLOW ARROW
	POINT OF CONNECTION
	POINT OF DISCONNECTION

MECHANICAL CONTROL SYMBOLS (ONE-LINE)	
	START / STOP
	MOTORIZED DAMPER
	OCCUPANCY SENSOR
	VARIABLE FREQUENCY DRIVE
	MOTOR STARTER
	THERMOSTAT
	ANALOG OUTPUT
	ANALOG INPUT
	BINARY OUTPUT
	BINARY INPUT

DUCTWORK FITTING STANDARDS	
THE FOLLOWING INDICATE THE STANDARD FOR DUCTWORK FITTINGS REQUIRED FOR THIS PROJECT	
ACCEPTABLE	NOT ACCEPTABLE
SMOOTH RADIUS ELBOWS W/ R/D ≥ 1.5	MITERED ELBOWS (SUPPLY)
SMOOTH RADIUS ELBOWS W/ R/D ≥ .75 WITH FULL RADIUS SPLITTER VANE	MITERED ELBOWS W/ VANES
RECTANGULAR THROAT W/ RADIUS HEEL	WYE W/ TURNING VANES W/ OR W/O UT DIVIDER
MITERED ELBOWS (TRANSFER DUCT ONLY)	SMOOTH RADIUS ELBOWS W/ R/D ≤ 1.5
ROUND, FLAT, OVAL OR RECTANGULAR	ELBOWS Z-SHAPED (SUPPLY ONLY)
SMOOTH RADIUS WYE W/ R/D ≥ 1.5	RECTANGULAR WYE W/ OR W/O UT DIVIDER
ROUND, FLAT, OVAL OR RECTANGULAR	BELLMOUTH FITTINGS
ROUND, FLAT, OVAL OR RECTANGULAR	SPIN-IN-FITTINGS
TEE W/ 45° ENTRY BRANCH TO MAIN	STRAIGHT TEES
ROUND, FLAT, OVAL OR RECTANGULAR	DOUBLE TEE WITH BRANCH ANGLE ≤ 45°
TEE WITH BRANCH ANGLE ≤ 45°	
DOUBLE TEE W/ 45° ENTRY BRANCH TO MAIN	

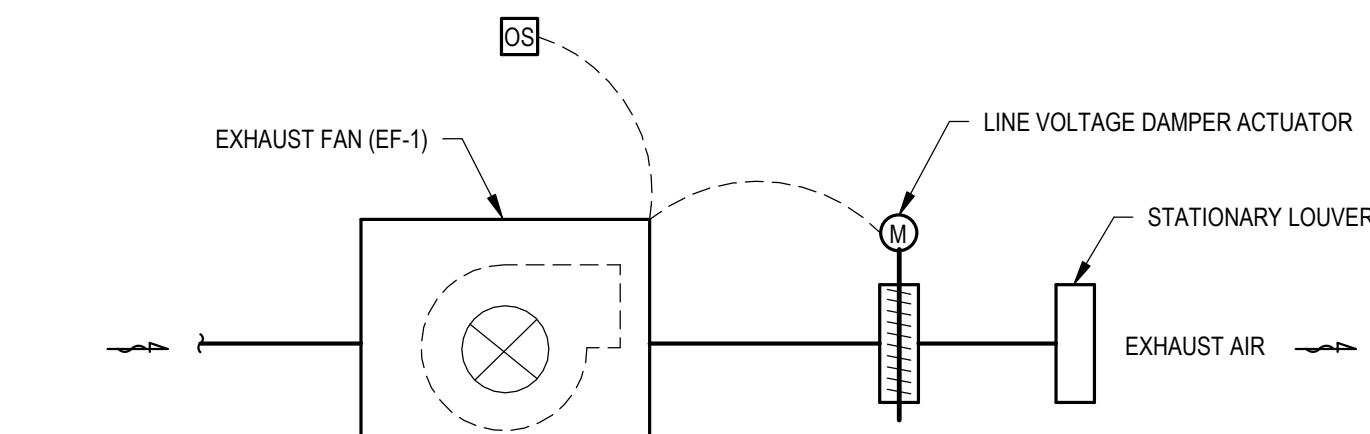
FAN											
TAG	LOCATION	SERVICE	TYPE	CFM	TSP (IN-WG)	BHP	ELECTRICAL RPM	HP	VOLT	PH	MANUFACTURER & MODEL #
EF-1	SEE PLANS	EXHAUST	INLINE	1100	0.50	0.2	1604	0.25	115	1	GREENHECK / SQ-100-VG
SF-1	SEE PLANS	SUPPLY	INLINE	1100	0.50	0.2	1604	0.25	115	1	GREENHECK / SQ-100-VG

REMARKS:
1. PROVIDE WITH MANUFACTURER'S DISCONNECT SWITCH MOUNTED IN UTILITY - 103 IN THE ON POSITION WHILE BUILDING IS OCCUPIED.
2. PROVIDE MANUFACTURER'S 24-VOLT TRANSFORMER AT FAN FOR INTERLOCK AND POWER TO MOTORIZED DAMPER.

LOUVER											
TAG	LOCATION	SERVICE	TYPE	WIDTH (IN)	HEIGHT (IN)	MIN FREE AREA	MATERIAL	FINISH	OPERATOR	MANUFACTURER & MODEL #	REMARKS
L-1	SEE PLANS	EXHAUST	STATIONARY	26	26	2.2 SF	ALUMINUM	KNYLAR	NONE	GREENHECK / ESD-635	1
L-2	SEE PLANS	INTAKE	STATIONARY	26	26	2.2 SF	ALUMINUM	KNYLAR	NONE	GREENHECK / ESD-635	1

REMARKS:
1. COORDINATE COLOR WITH ARCHITECT.

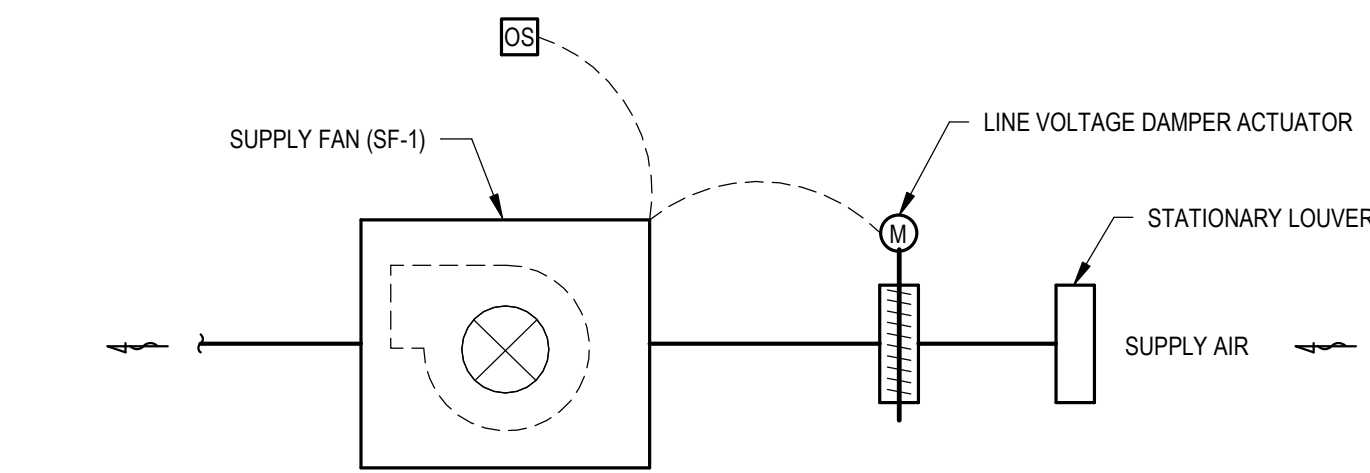
REGISTER, GRILLE, AND DIFFUSER											
TAG	LOCATION	SERVICE	TYPE	MAX CFM	FACE SIZE	NECK SIZE	PATTERN	APD (IN-WG)	MAX NC	MANUFACTURER & MODEL #	REMARKS
ED-1	SEE PLANS	EXHAUST	DIFFUSER	150	12"x12"	6"x6"	PERFORATED	0.09	30	TITUS / PAR	
ED-2	SEE PLANS	EXHAUST	DIFFUSER	350	24"x24"	12"x12"	PERFORATED	0.09	30	TITUS / PAR	
SD-1	SEE PLANS	SUPPLY	DIFFUSER	135	12"x12"	6"	4-WAY ADJUSTABLE	0.09	30	TITUS / TMS	
SD-2	SEE PLANS	SUPPLY	DIFFUSER	350	24"x24"	12"	4-WAY ADJUSTABLE	0.09	30	TITUS / TMS	



SEQUENCE OF OPERATIONS:
EXHAUST FAN MOTOR SHALL BE ENERGIZED AND DE-ENERGIZED VIA CEILING-MOUNTED OCCUPANCY SENSOR IN LOBBY (PROVIDED BY ELECTRICAL). SUPPLY FAN SHALL OPERATE CONTINUOUSLY WITH ASSOCIATED MOTORIZED DAMPERS OPEN WHILE BUILDING IS OCCUPIED.

1 EXHAUST FAN AIR FLOW DIAGRAM

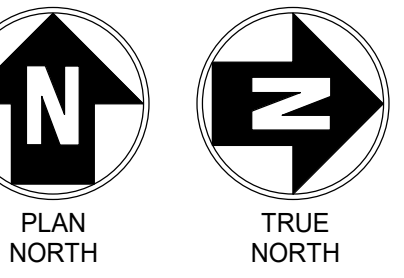
NOT TO SCALE



SEQUENCE OF OPERATIONS:
SUPPLY FAN MOTOR SHALL BE ENERGIZED AND DE-ENERGIZED VIA CEILING-MOUNTED OCCUPANCY SENSOR IN LOBBY (PROVIDED BY ELECTRICAL). SUPPLY FAN SHALL OPERATE CONTINUOUSLY WITH ASSOCIATED MOTORIZED DAMPERS OPEN WHILE BUILDING IS OCCUPIED.

2 SUPPLY FAN AIR FLOW DIAGRAM

NOT TO SCALE



MODE ISLAND COLLEGE
TRACK SUPPORT
BUILDING

BIDDING DOCUMENT			11/5/25
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Drawn By: SK	Drawn By: SK	Checked By: JL
Date: 5/25	Project No: 90475	Scale: AS SHOWN

M-101

Central File: Update this text with Central file location
Saved: 11/5/2025 10:18:33 AM Current Local File: Autodesk Docs:/090475.000 - RIC - Bleachers & Concessions/090475 - RIC-TRACK SUPPORT BUILDING_CHA_MECH_R25.m

PLUMBING ABBREVIATIONS	
ABS	ABSOLUTE
AC	ALTERNATING CURRENT
AD	ACCESS DOOR
AFF	ABOVE FINISH FLOOR
AP	ACCESS PANEL
BOP	BOTTOM OF PIPE
CD	CONDENSATE DRAIN
CLG	CEILING
Cv	COEFFICIENT, VALVE FLOW
DN	DOWN
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVATION
ESP	EXTERNAL STATIC PRESSURE
EW	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
F&T	FLOAT AND THERMOSTATIC TRAP
FAI	FRESH AIR INTAKE
FF	FINISH FLOOR
FLA	FULL LOAD AMPS
FLR	FLOOR
FT HD	FEET OF HEAD
GA	GAUGE OR GAGE
GAL	GALLON
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
IN	INCH
IN WG	INCHES WATER GAUGE
INV	INVERT
LAV	LAVATORY
LF	LINEAR FEET/FOOT
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	BTU PER HOUR (THOUSAND)
MH	MANHOLE
MCA	MINIMUM CIRCUIT AMPS
MIN	MINIMUM
MIN SP	MINIMUM STATIC PRESSURE
MOCP	MAXIMUM OVERCURRENT PROTECTION
MTG HGT	MOUNTING HEIGHT
MO	MASONRY OPENING
MY	MANUAL AIR VENT
N/A	NOT APPLICABLE
N C	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N O	NORMALLY OPEN
NPW	NON POTABLE WATER
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PH	PHASE
PHM	PARTS PER MILLION
PSIG	POUNDS PER SQUARE INCH GAUGE
RPM	REVOLUTIONS PER MINUTE
SP	STATIC PRESSURE
TD OR ΔT	TEMPERATURE DIFFERENCE
TDH	TOTAL DIFFERENTIAL HEAD
TEMP	TEMPERATURE
THR	TOTAL HEAD REJECTION
TSP	TOTAL STATIC PRESSURE
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
VOLT	VOLTAGE
VTR	VENT THROUGH ROOF
W	WATT
WBT	WET BULB TEMPERATURE
WC	WATER CLOSET
WG	WATER GAGE
WPD	WATER PRESSURE DROP
°F	DEGREES FAHRENHEIT
#	AND NUMBER

PLUMBING LINE TYPES (ONE-LINE)		
	2" R	REMOVE PIPING (SIZE AS INDICATED)
	2" (E/CW)	EXISTING PIPING (SIZE AND SYSTEM AS INDICATED)
	2" CW	COLD WATER PIPING (SIZE AS INDICATED)
	2" HW	HOT WATER PIPING (SIZE AS INDICATED)
	2" HWR	HOT WATER RETURN PIPING (SIZE AS INDICATED)
	2" SAN	SANITARY PIPING (SIZE AS INDICATED)
	2" USAN	UNDERSLAB SANITARY PIPING (SIZE AS INDICATED)
	2" UV	UNDERSLAB VENT PIPING (SIZE AS INDICATED)
	2" V	VENT PIPING (SIZE AS INDICATED)

PLUMBING PIPING SYMBOLS (ONE-LINE)	
	BALANCING VALVE
	BALL VALVE
	GATE VALVE
	GLOBE VALVE
	BUTTERFLY VALVE
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	ANGLE VALVE (GATE)
	ANGLE VALVE (GLOBE)
	PRESSURE RELIEF VALVE
	PRESSURE REDUCING VALVE
	PRESSURE REGULATING VALVE
	SPRING CHECK VALVE
	SWING CHECK VALVE
	SOLENOID VALVE
	ELECTRICALLY ACTUATED VALVE
	TRIPLE DUTY VALVE
	GAS COOK
	CIRCUIT SETTER BALANCING VALVE
	PLUG VALVE
	NEEDLE VALVE
	QUICK OPENING VALVE
	QUICK CLOSING VALVE
	WYE STRAINER
	WYE STRAINER W/ BLOWDOWN (BALL)
	WYE STRAINER W/ BLOWDOWN (GATE)
	BASKET STRAINER (SIMPLEX)
	BASKET STRAINER (DUPLEX)
	REDUCED PRESSURE ZONE (BALL VALVES)
	REDUCED PRESSURE ZONE (GATE VALVES)
	PIPE TURNING UP
	PIPE TURNING DOWN
	PIPE BRANCH UP
	PIPE BRANCH DN
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	PIPE CAP
	PIPE BREAK
	PIPE PLUG
	UNION
	MANUAL AIR VENT
	DECK PLATE CLEANOUT
	WALL CLEANOUT / CLEANOUT
	FLOOR DRAIN / ROOF DRAIN
	HOSE BIBB / NON-FREEZE HOSE BIBB
	FRESH AIR INLET
	WATER HAMMER ARRESTOR
	SINGLE BLIND FLANGE
	DOUBLE BLIND FLANGE
	POINT OF CONNECTION
	POINT OF DISCONNECTION
	THERMOMETER
	PRESSURE GAUGE
	PUMP

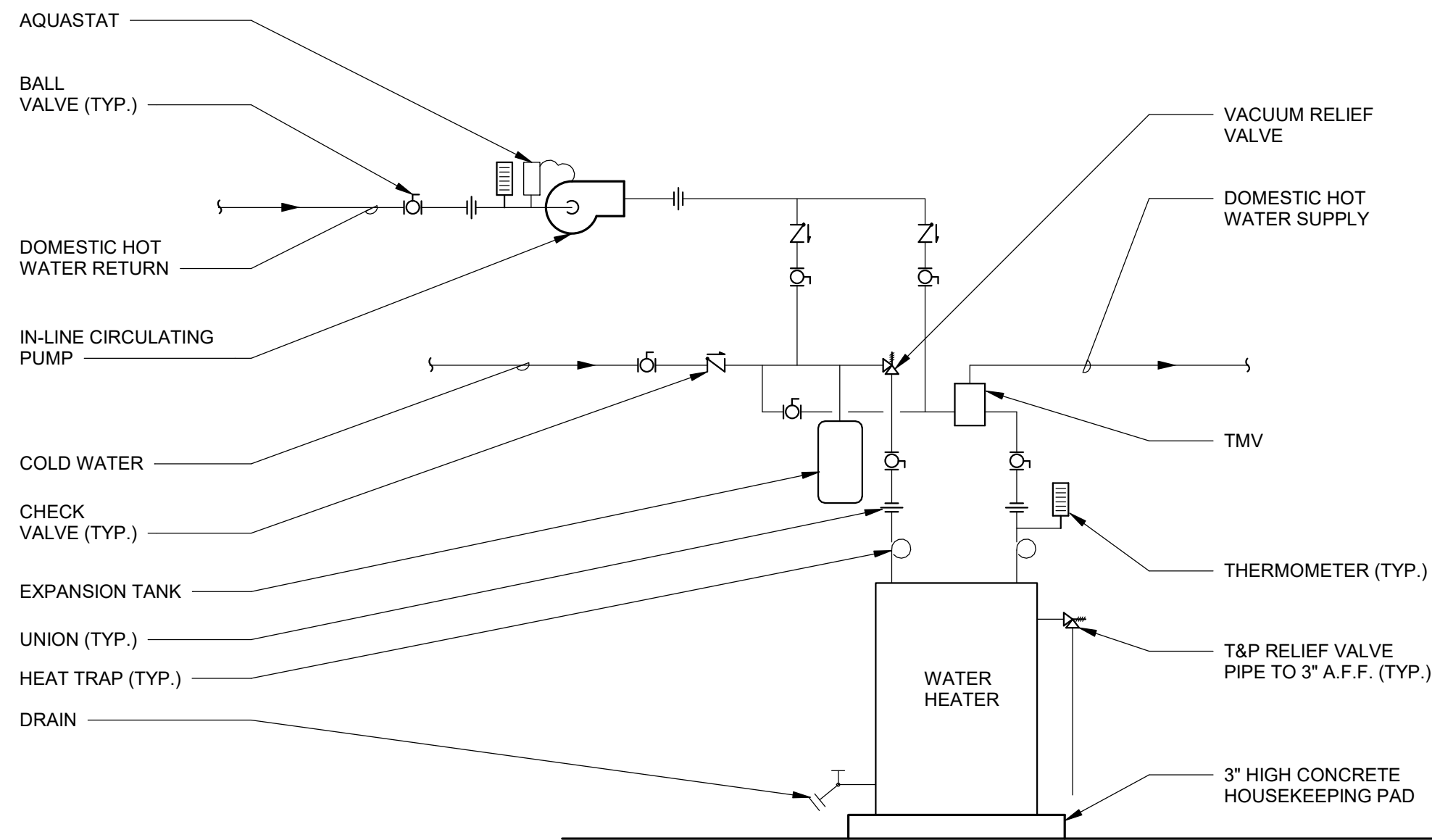
PLUMBING FIXTURE									
TAG	ITEM	WASTE	VENT	CW	HW	ITEM DESCRIPTION	FITTINGS/ACCESSORIES OR DESIGN DATA		MANUFACTURER & MODEL #
DPCO	DECK PLATE CLEANOUT	4"				ADJUSTABLE FLOOR CLEANOUT WITH POLISHED BRONZE COVER			JAY R. SMITH / 4020 SERIES
EW	ELECTRIC WATER COOLER	1 1/2"	1 1/4"	1/2"		DUAL SELF CONTAINED WALL HUNG ELECTRIC WATER COOLER WITH BOTTLE FILLER AND SELF CLOSING TOUCH CONTROLS ON FRONT AND SIDES OF EACH UNIT			ELKAY / LZSTL8WSLK
FD	FLOOR DRAIN	3"	1 1/2"			TWO-PIECE BODY WITH ADJUSTABLE STRAINER, WITH WEEP HOLES, INVERTIBLE COLLAR, AND BARRIER SEALS.			JOSAM / 30000-A
HB	HOSE BIBB			1/2"		COMBINATION HOSE BIBB WITH SEPARATE TAMPER PROOF VACUUM BREAKER WITH CAST IRON HAND WHEEL AND ADJUSTABLE PACKING NUT			WATTS / SC8
Hlav	HANDICAP LAV	1 1/2"	1 1/4"	1/2"	1/2"	VITREOUS CHINA, REAR OVERFLOW WITH STRAINER, PROVIDE OFF-SET TRAP AND MOUNT TO ADA GUIDELINES	MOEN 8800F05 FAUCET 0.5 GPM AND GRID STRAINER ASSEMBLY		AMERICAN STANDARD / COMRAD #0124.131
HS	HAND SINK	1 1/2"	1 1/4"	1/2"	1/2"	STAINLESS STEEL SINGLE BOWL WALL HUNG HAND WASH SINK	FAUCET AND STRAINER INCLUDED WITH SINK		ELKAY / CHS1716C
HUR	HANDICAP WALL-HUNG URINAL	2"	1 1/2"	1"		VITREOUS CHINA, WATER SAVER, WASHOUT ACTION, MEETS ANSI A112.19.2. MOUNT TO ADA GUIDELINES	SLOAN ROYAL 186-1 FLUSH VALVE		AMERICAN STANDARD / WASHBROOK #6501
HWC	HANDICAP FLOOR MOUNTED WATER CLOSET	3"	1 1/2"	1"		VITREOUS CHINA, WATER SAVER, SIPHON JET ACTION, ELONGATED BOWL, MEETS ANSI A112.19.2M. MEETS ADA REQUIREMENTS.	SLOAN ROYAL LC-111-1.28 FLUSH VALVE OLSONITE #95C SEAT		AMERICAN STANDARD / MADERA #2305
KS	KITCHEN SINK	3"	1 1/2"	1/2"	1/2"	UNDERMOUNT 18 GAUGE 304 STAINLESS STEEL KITCHEN SINK	ELKAY LKD232SC FAUCET AND ELKAY LKPD1 DRAIN		ELKAY / ELUH1814PD
LAV	LAVATORY	1 1/2"	1 1/4"	1/2"	1/2"	VITREOUS CHINA, REAR OVERFLOW WITH STRAINER	MOEN 8800F05 FAUCET 0.5 GPM AND GRID STRAINER ASSEMBLY		AMERICAN STANDARD / COMRAD #0124.131
MS	MOP SINK	3"	1 1/2"	1/2"	1/2"	MOLDED-STONE, 6" HIGH 2" WIDE WALLS, STAINLESS STEEL DRAIN BODY, COMBINATION STAINLESS STEEL DOME STRAINER WITH LINT BASKET, PROVIDE DEEP SEAL P-TRAP	FIAT #830-AA FAUCET, #889-CC MOP HANGAR, #1239-BB ALUMINUM BUMPER GUARD		FIAT / WSB 2424
NFHB	NON-FREEZE HOSE BIBB			1/2"		COMBINATION FROST-PROOF SELF-DRAINING HOSE BIBB WITH SEPARATE TAMPER PROOF VACUUM BREAKER WITH CAST IRON HAND WHEEL AND ADJUSTABLE PACKING NUT			WATTS / LFFHB
TMV	THERMOSTATIC MIXING VALVE			3/4"	3/4"	BRONZE BODY CONSTRUCTION WITH QUARTER TURN BALL VALVE AND DIAL THERMOMETER			LEONARD / XL-32A-LF-BDT
UR	WALL-HUNG URINAL	2"	1 1/2"	1"		VITREOUS CHINA, WATER SAVER, WASHOUT ACTION, MEETS ANSI A112.19.2	SLOAN ROYAL 186-1 FLUSH VALVE		AMERICAN STANDARD / WASHBROOK #6501
WC	FLOOR MOUNTED WATER CLOSET	3"	1 1/2"	1"		VITREOUS CHINA, WATER SAVER, SIPHON JET ACTION, ELONGATED BOWL, MEETS ANSI A112.19.2M	SLOAN ROYAL LC-111-1.28 FLUSH VALVE OLSONITE #95C SEAT		AMERICAN STANDARD / MADERA #2234
WHA	WATER HAMMER ARRESTOR			3/4"	3/4"	LEAD FREE SHOCK ABSORBER/WATER HAMMER ARRESTOR WITH STAINLESS STEEL SHELL, HYDRO-PNEUMATIC CUSHION OF NITROGEN GAS, STAINLESS STEEL BELLOW AND STAINLESS STEEL MALE THREADED PIPE NIPPLE			JOSAM / 75000 SIZE A

ELECTRIC WATER HEATER									
TAG	SERVICE	GALLONS	KW	GPH	RISE	ELECTRICAL DATA			REMARKS
						VOLT	PH	FLA	
EW-H-1	DOMESTIC WATER	40.0	12	40	100 °F	208	3	37	A.O. SMITH / DEN-40

CIRCULATING PUMP												
TAG	LOCATION	SERVICE	FLUID TYPE	GPM	FT HD	EFF	ELECTRICAL				MANUFACTURER & MODEL #	REMARKS
							HP	VOLT	PH	CYCLE	RPM	
P-1	UTILITY - 103	HOT WATER RECIRC	WATER	3	6.00	44.20%	0.1	120	1	60 Hz	2864	BELL & GOSSETT / ECOCIRC 20-18

EXPANSION TANK								
TAG	LOCATION	SERVICE	TYPE	FLUID TYPE	ACCEPTANCE VOLUME (GAL)	SIZE VOLUME (GAL)	FILL PRESS (PSIG)	RELIEF VALVE SETTING (PSIG)
ET-1	UTILITY - 103	DOMESTIC WATER	DIAPHRAGM	WATER	3.2	6.5	55.00	75.00
						MANUFACTURER & MODEL #		REMARKS
						AMTROL / ST-12C-DD		

BACKFLOW PREVENTER					
TAG	LOCATION	INLET/OUTLET (IN.)	GPM	MANUFACTURER & MODEL #	REMARKS
RPZ-1	UTILITY - 103	2"	86	ZURN / 375XL	



1 ELECTRIC WATER HEATER DETAIL
NOT TO SCALE



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR, TO SEAL, SIGN, OR SEAL ANY DRAWING, SPECIFICATION, OR REPORT OF A LICENSED PROFESSIONAL, IF ALTERED, THE ALTERED PORTION, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE INFORMATION FILTERED BY FOLLOWING BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

RHODE ISLAND COLLEGE-
TRACK SUPPORT
BUILDING

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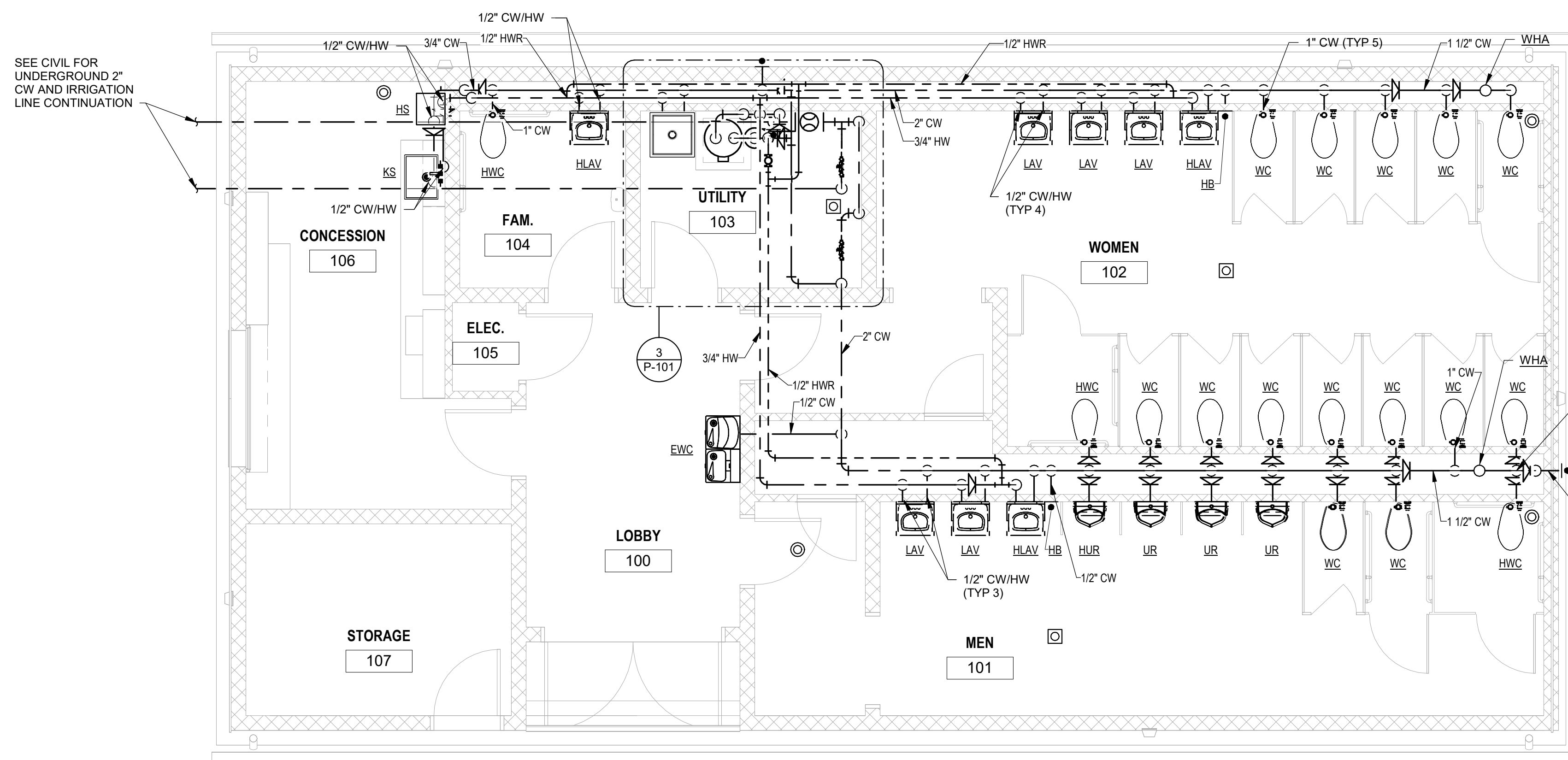
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LEGEND, ABBREVIATIONS
AND SYMBOLS

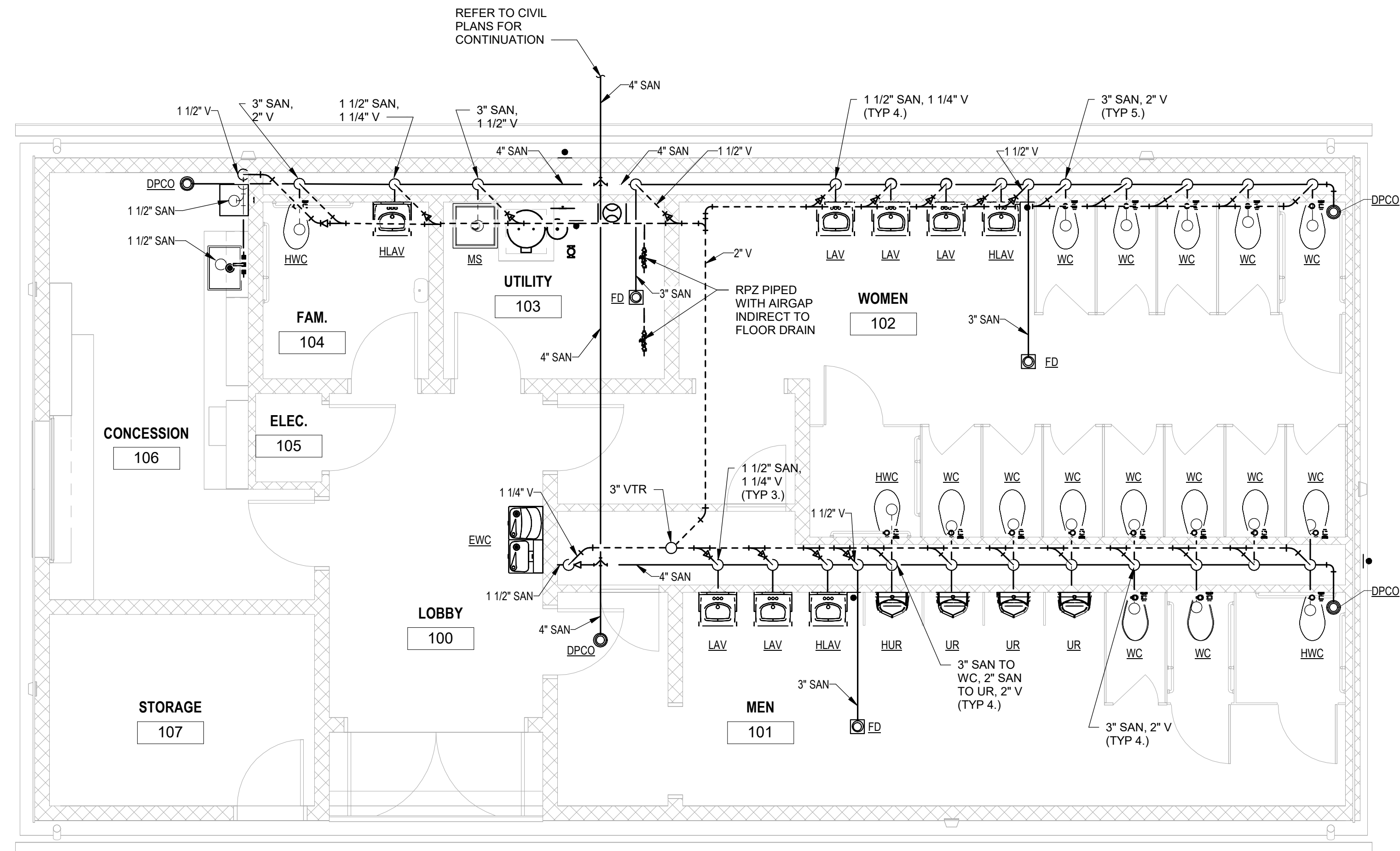
Designed By: SK	Drawn By: SK	Checked By: JL
Issue Date: 11/5/25	Project No: 90475	Scale: AS SHOWN

Drawing No:
P-001

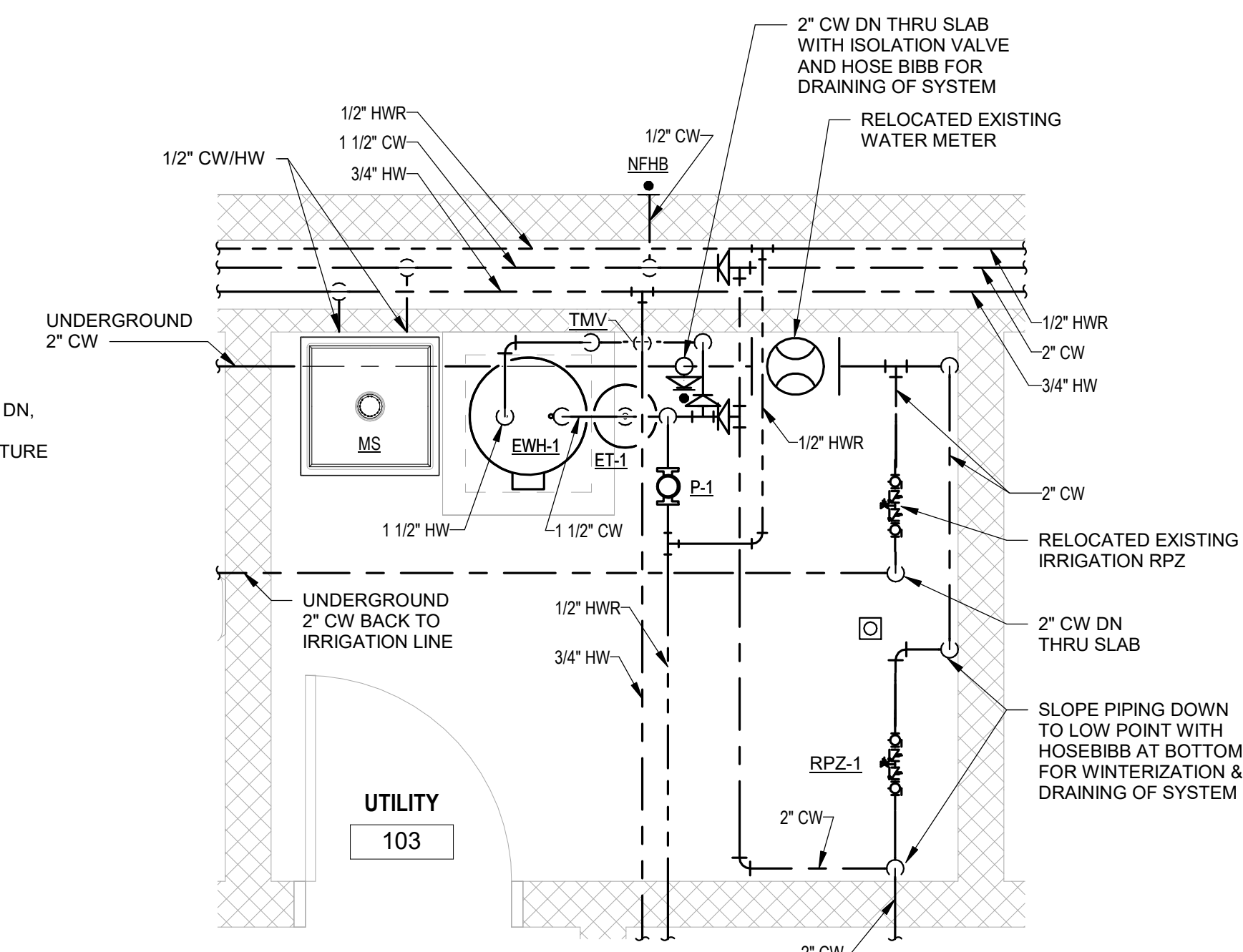
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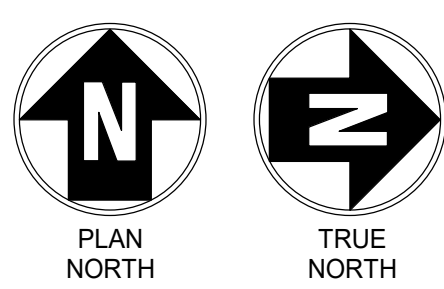
1 POTABLE PIPING PLAN
1/4" = 1'-0"



2 DRAINAGE & VENT PIPING PLAN
1/4" = 1'-0"



3 103 - UTILITY ENLARGED POTABLE PIPING PLAN
1/2" = 1'-0"



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TRACK SUPPORT
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No.	Submital / Revision	App'd.	By	Date
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PLUMBING PLAN

Designed By: SK	Drawn By: SK	Checked By: JL
Issue Date: 11/5/25	Project No: 90475	Scale: AS SHOWN

Drawing No:
P-101

ABBREVIATIONS

A	AMPERE(S)
AC	ALTERNATING CURRENT
AF	AMPERE FRAME
AFFG	ABOVE FINISHED FLOOR/GRADE
AIC	AMPERE INTERRUPTING CAPACITY
AT	AMPERE TRIP
AUX	AUXILIARY
AV	AUDIO/VISUAL
AWG	AMERICAN WIRE GAUGE
BB	BACKBOARD
BCW	BARE COPPER WIRE
BATT	BATTERY
BTM	BOTTOM
BLDG	BUILDING
C	CONDUIT
CAB	CABINET
CAV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CL	CENTERLINE
CO	COMPANY
COMM	COMMUNICATIONS
CONN	CONNECTION / CONNECT
CUH	CABINET UNIT HEATER
CT	CURRENT TRANSFORMER
CU	COPPER
Δ	DELTA (THREE PHASE CONFIGURATION)
D	DEEP / DEPTH
DB	DECIBEL
DEG	DEGREE
DET	DETECTOR
DA	DIAMETER
DISC	DISCONNECT
DIST	DISTRIBUTION
DIV	DIVISION
DN	DOWN
DWG	DRAWING
EA	EACH
EF	EXHAUST FAN
EL	ELEVATION
ELEC	ELECTRIC / ELECTRICAL
ELEV	ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOSURE
EQUP	EQUIPMENT
ETR	EXISTING TO REMAIN
EW	ELECTRIC WATER COOLER
EW	ELECTRIC WATER HEATER
EXT	EXTERIOR
F	FUSE / FUSED
FA	FIRE ALARM
FAFP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FC	FOOTCANDLE(S)
FRT	FIXTURE
FLR	FLOOR
FS	FUSIBLE SWITCH
FT	FOOT / FEET
FUT	FUTURE
G, GND	GROUND
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTION
HD	HEAVY DUTY
HGT	HEIGHT
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HPF	HORSEPOWER FACTOR
HTR	HEATER
HV	HIGH VOLTAGE
ID	IDENTIFY / IDENTIFICATION
IDF	INTERMEDIATE DISTRIBUTION FRAME
J-BOX	JUNCTION BOX
J.C	JANITOR CLOSET
JCT	JUNCTION
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT-AMPERE(S)
KW	KILOWATT(S)
L	LONG / LENGTH
LED	LIGHT EMITTING DIODE
LTG	LIGHTING
LPS	LIGHTNING PROTECTION SYSTEM
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MC	METAL CLAD
MDF	MAIN DISTRIBUTION FRAME
MFR	MANUFACTURER
MECH	MECHANICAL
MIN	MINIMUM
MLO	MAIN LUG ONLY
MTD	MOUNTED
MTG	MOUNTING
MTR	MOTOR
N	NORTH
NEC	NATIONAL ELECTRICAL CODE
NFS	NON-FUSIBLE SWITCH
NL	NIGHT LIGHT
NO. / #	NUMBER
OC	OVER COUNTER
OHD	OVERHEAD DOOR
OL	OVERLOAD
P	POLE(S)
PA	PUBLIC ADDRESS
PNL	PANEL
PR	PAIR
PR	PRIMARY
PWR	POWER
PH	PHASE
PT	POTENTIAL TRANSFORMER
RCPT	RECEPTACLE
RGS	RIGID GALVANIZED STEEL
RM	ROOM
RMC	RIGID METAL CONDUIT
RMS	ROOT MEAN SQUARE
SEC	SECONDARY
SH	SHIELDED
SPKR	SPEAKER
SW	SWITCH
TEMP	TEMPORARY / TEMPERATURE
T-STAT	THERMOSTAT
TB	TERMINAL BOARD
TYP	TYPICAL
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLT(S)
VA	VOLT-AMPERE(S)
W	WATT(S) / WIRE(S)
W/	WITH
WP	WEATHERPROOF
XFMR	TRANSFORMER
Y	WYE (THREE PHASE CONFIGURATION)

POWER

	SIMPLEX RECEPTACLE - WALL MOUNTED, 18" AFF UNLESS OTHERWISE NOTED
	DUPLEX RECEPTACLE - WALL MOUNTED, 18" AFF UNLESS OTHERWISE NOTED +XX" - INDICATES MOUNTING HEIGHT ABOVE FINISHED FLOOR (TYP ALL RECEPTACLES)
	DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER - WALL MOUNTED, 18" AFF UNLESS OTHERWISE NOTED
	QUADRUPLEX RECEPTACLE - WALL MOUNTED, 18" AFF UNLESS OTHERWISE NOTED
	SPECIAL RECEPTACLE - SUBSCRIPT INDICATES NEMA CONFIGURATION - WALL MOUNTED, 18" AFF UNLESS OTHERWISE NOTED
	DUPLEX RECEPTACLE - CEILING MOUNTED
	DUPLEX RECEPTACLE - FLOOR BOX OR FLOOR POKE-THROUGH DEVICE, FIRE RATED 1HR
	JUNCTION BOX - FLOOR BOX
	JUNCTION BOX - CEILING OR WALL MOUNTED, SUBSCRIPT INDICATES: +XX" - MOUNTING HEIGHT ABOVE FINISHED FLOOR
	480Y/277V, 3PH, 4W, BRANCH CIRCUIT OR DISTRIBUTION PANELBOARD, SURFACE MOUNTED
	208Y/120V, 3PH, 4W (UNLESS OTHERWISE NOTED), BRANCH CIRCUIT OR DISTRIBUTION PANELBOARD, SURFACE MOUNTED
	DISTRIBUTION TRANSFORMER
	HARDWIRED EQUIPMENT CONNECTION - REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE FOR ADDITIONAL REQUIREMENTS
	SINGLE POLE MOTOR RATED TOGGLE SWITCH, 120-277V, WITH CURRENT RATINGS AS REQUIRED TO SERVE EQUIPMENT CONNECTED
	MANUAL MOTOR STARTER WITH THERMAL OVERLOADS, POLES, AND CURRENT RATINGS AS REQUIRED TO SERVE EQUIPMENT CONNECTED
	DISCONNECT SWITCH - NON-FUSIBLE, NEMA 1 UNLESS OTHERWISE NOTED SUBSCRIPTS INDICATE AMPERE RATING / POLES
	DISCONNECT SWITCH - FUSIBLE, NEMA 1 UNLESS OTHERWISE NOTED SUBSCRIPTS INDICATE AMPERE RATING / POLES / FUSE RATING
	MAGNETIC MOTOR STARTER, NEMA 1 UNLESS OTHERWISE NOTED VOLTAGE, POLES, AND CURRENT RATINGS AS REQUIRED TO SERVE EQUIPMENT CONNECTED
	COMBINATION MAGNETIC MOTOR STARTER, NEMA 1 UNLESS OTHERWISE NOTED VOLTAGE, POLES, AND CURRENT RATINGS AS REQUIRED TO SERVE EQUIPMENT CONNECTED
	GROUND ROD - 5/8" X 10'-0", COPPER CLAD

RACEWAYS

	CONDUIT CONCEALED OR EXPOSED AS SPECIFIED
	CONDUIT UNDERGROUND OR UNDERSLAB
	CONDUIT TURNING UP
	CONDUIT TURNING DOWN

LIGHTING

	SINGLE POLE TOGGLE SWITCH, 120V-277V, 20A - SUBSCRIPTS INDICATE: D - DIMMER (0-10V, UNLESS OTHERWISE NOTED) T - DIGITAL ASTRONOMICAL TIMER SWITCH 3 - 3-WAY 4 - 4-WAY a - LOWERCASE LETTER INDICATES CONTROL ZONE
	OCCUPANCY SENSOR WALL SWITCH, 120V-277V, 20A
	OCCUPANCY SENSOR - CEILING MOUNTED
	LIGHTING FIXTURE - 1X4, RECESSED OR SURFACE MOUNTED
	LIGHTING FIXTURE - LINEAR, RECESSED OR SURFACE MOUNTED
	LIGHTING FIXTURE - 2X2, RECESSED OR SURFACE MOUNTED
	LIGHTING FIXTURE - 2X4, RECESSED OR SURFACE MOUNTED
	LIGHTING FIXTURE - CIRCULAR DOWNLIGHT, RECESSED OR SURFACE MOUNTED
	LIGHTING FIXTURE - LINEAR INDUSTRIAL, CHAIN OR SUSPENDED MOUNTED
	LIGHTING FIXTURE - LINEAR, WALL MOUNTED
	LIGHTING FIXTURE - LINEAR STRIPLIGHT, WALL MOUNTED
	LIGHTING FIXTURE - ROUND DOWNLIGHT, WALL MOUNTED
	LIGHTING FIXTURE - EXTERIOR AREA LIGHT, WALL MOUNTED
	EXTERIOR LIGHTING FIXTURE - POLE MOUNTED
	EXTERIOR LIGHT FIXTURE - BOLLARD
	EMERGENCY FIXTURES (TYPICAL) - DIAGONAL HATCH INDICATES FIXTURE WITH INTEGRAL EMERGENCY BATTERY BACKUP
	EXIT SIGNS, CEILING/SUSPENDED OR WALL MOUNTED, SINGLE OR DOUBLE FACE AND WITH DIRECTIONAL CHEVRONS AS INDICATED ON PLANS
LIGHTING FIXTURE TAGS:	
	LIGHTING FIXTURE TYPE - REFER TO LIGHTING FIXTURE SCHEDULE
	CIRCUIT NUMBER
	SWITCH LEG OR CONTROL ZONE

ONE-LINE DIAGRAM

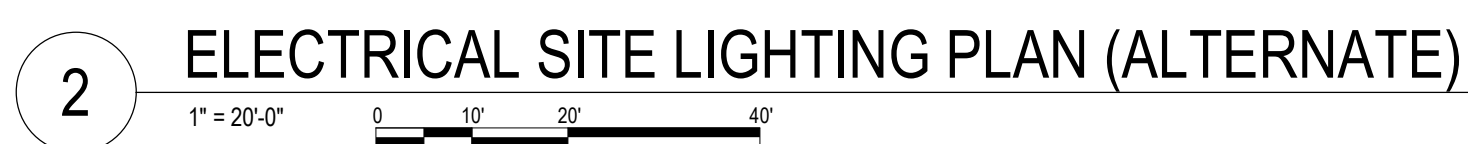
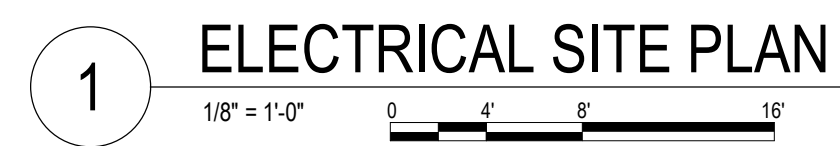
	FUSED CUTOFF		FEEDER TAG
	DRAW OUT CIRCUIT BREAKER		CURRENT TRANSFORMER
	DRAW OUT CIRCUIT BREAKER - MEDIUM VOLTAGE		POTENTIAL TRANSFORMER
	GROUND CONNECTION		SURGE-PROTECTIVE DEVICE
	FUSE		DISTRIBUTION TRANSFORMER
	CIRCUIT BREAKER		TRANSFER SWITCH - MANUAL
	DISCONNECT SWITCH - NON-FUSIBLE		TRANSFER SWITCH - AUTOMATIC
	DISCONNECT SWITCH - FUSIBLE		GENERATOR, NUMBER INDICATES KW RATING
	THERMAL OVERLOADS		MOTOR, NUMBER INDICATES HORSEPOWER
	CONTACTS - NORMALLY CLOSED		COMBINATION MOTOR STARTER W/ FUSIBLE DISCONNECT
	CONTACTS - NORMALLY OPEN		COMBINATION MOTOR STARTER W/ NON-FUSIBLE DISCONNECT

GENERAL

	CODED NOTE - REFER TO CODED NOTES LIST ON SHEET.
	DEMOLITION NOTE - REFER TO DEMOLITION NOTES LIST ON SHEET.
	HOME RUN BACK TO PANEL (PANEL AND CIRCUITS INDICATED)
	CIRCUIT CONTINUED OR CONNECTED TO EQUIPMENT AS INDICATED
	THIN LINEWEIGHT INDICATES EXISTING EQUIPMENT TO REMAIN
	THICK LINEWEIGHT INDICATES PROPOSED WORK/EQUIPMENT
	THICK DASHED LINES INDICATE EXISTING EQUIPMENT TO BE REMOVED (DEMOLITION PLANS)

GENERAL NOTES:

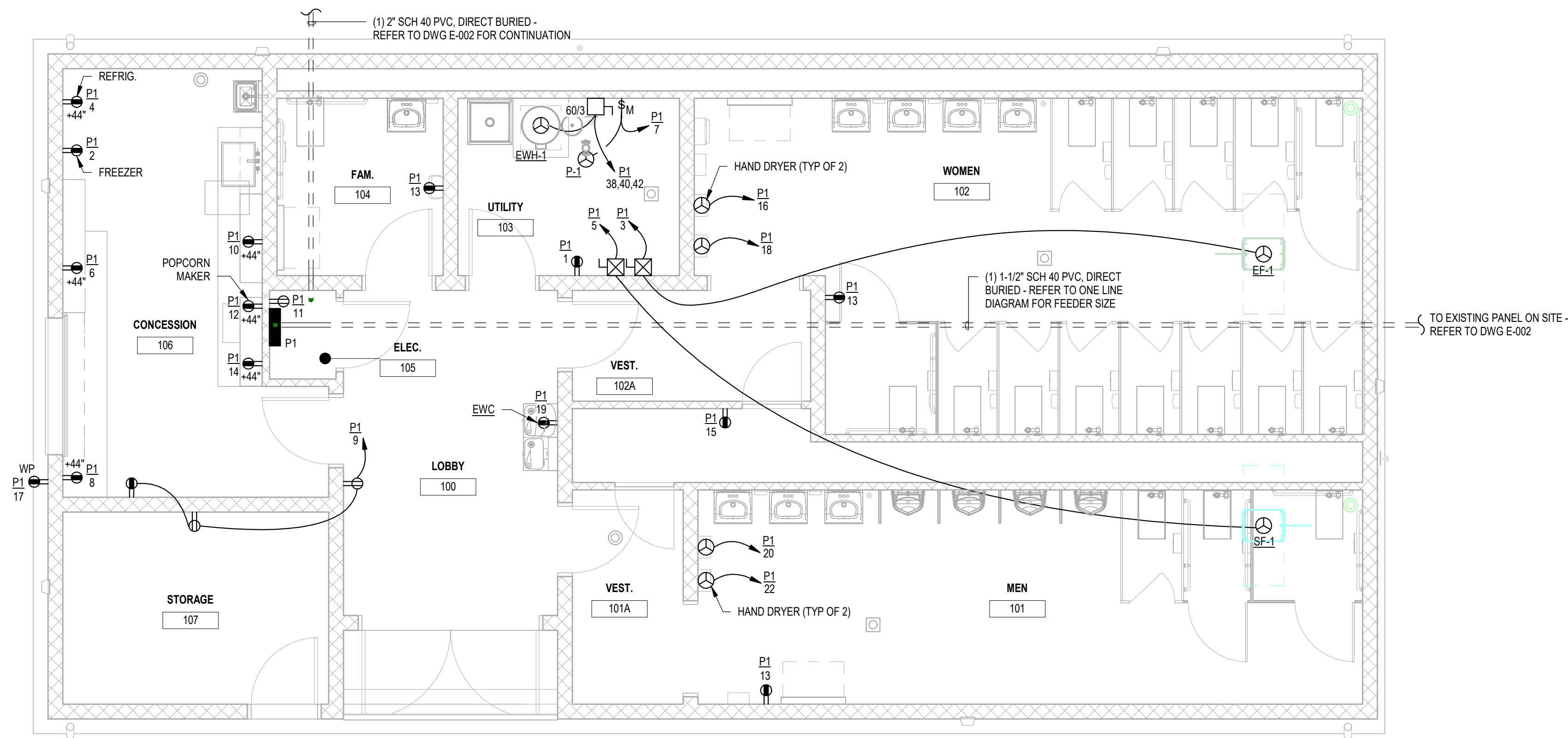
- GENERAL NOTES APPLY TO ALL CONTRACT DRAWINGS.
- REFER TO CIVIL, STRUCTURAL, ARCHITECTURAL, MECHANICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR SYMBOLS ASSOCIATED WITH WORK, EQUIPMENT, ETC. BY OTHER TRADES.
- ALL WORK SHOWN ON THE ELECTRICAL DRAWINGS SHALL BE BY THE ELECTRICAL CONTRACT UNLESS OTHERWISE NOTED.
- COORDINATE WORK WITH ALL TRADES. MECHANICAL EQUIPMENT INDICATED ON "M," "P," AND "FP" DRAWINGS WILL BE FURNISHED BY DIVISION 21, 22, 23, & 25 AND WIRED COMPLETE BY DIVISION 26 AND 28 UNLESS OTHERWISE NOTED. REFER TO MECHANICAL, PLUMBING, AND FIRE PROTECTION SCHEDULES.
- CONDUIT RUNS SHOWN ARE DIAGRAMMATIC ONLY. EXACT LOCATION OF ALL CONDUIT RUNS SHALL BE DETERMINED IN THE FIELD. COORDINATE INSTALLATIONS AND AVOID CONFLICTS WITH PIPING, DUCTWORK, ACCESS DOORS, AND WORK BY OTHER TRADES.
- CONCEAL CONDUITS AND/OR WIRING WITHIN WALLS, UNDER FLOORS, AND/OR ABOVE SUSPENDED CEILINGS WHEREVER POSSIBLE.
- FOR SINGLE PHASE CIRCUITS, THE MINIMUM CIRCUIT SIZE SHALL BE (2) #12, #12 G IN 34°C, UON. FOR THREE PHASE CIRCUITS, THE MINIMUM CIRCUIT SIZE SHALL BE (3) #12, #12 G IN 34°C, UON. BRANCH CIRCUIT WIRE SIZING MAY APPEAR AS NOTES ON PLAN DRAWINGS, ONE-LINE DIAGRAMS, OR PANELBOARD SCHEDULES. WHEN COMBINING MULTIPLE HOMERUNS IN A SINGLE CONDUIT, DO NOT COMBINE MORE THAN (6) CURRENT CARRYING CONDUCTORS IN A SINGLE CONDUIT, DERATE CONDUCTORS PER NEC



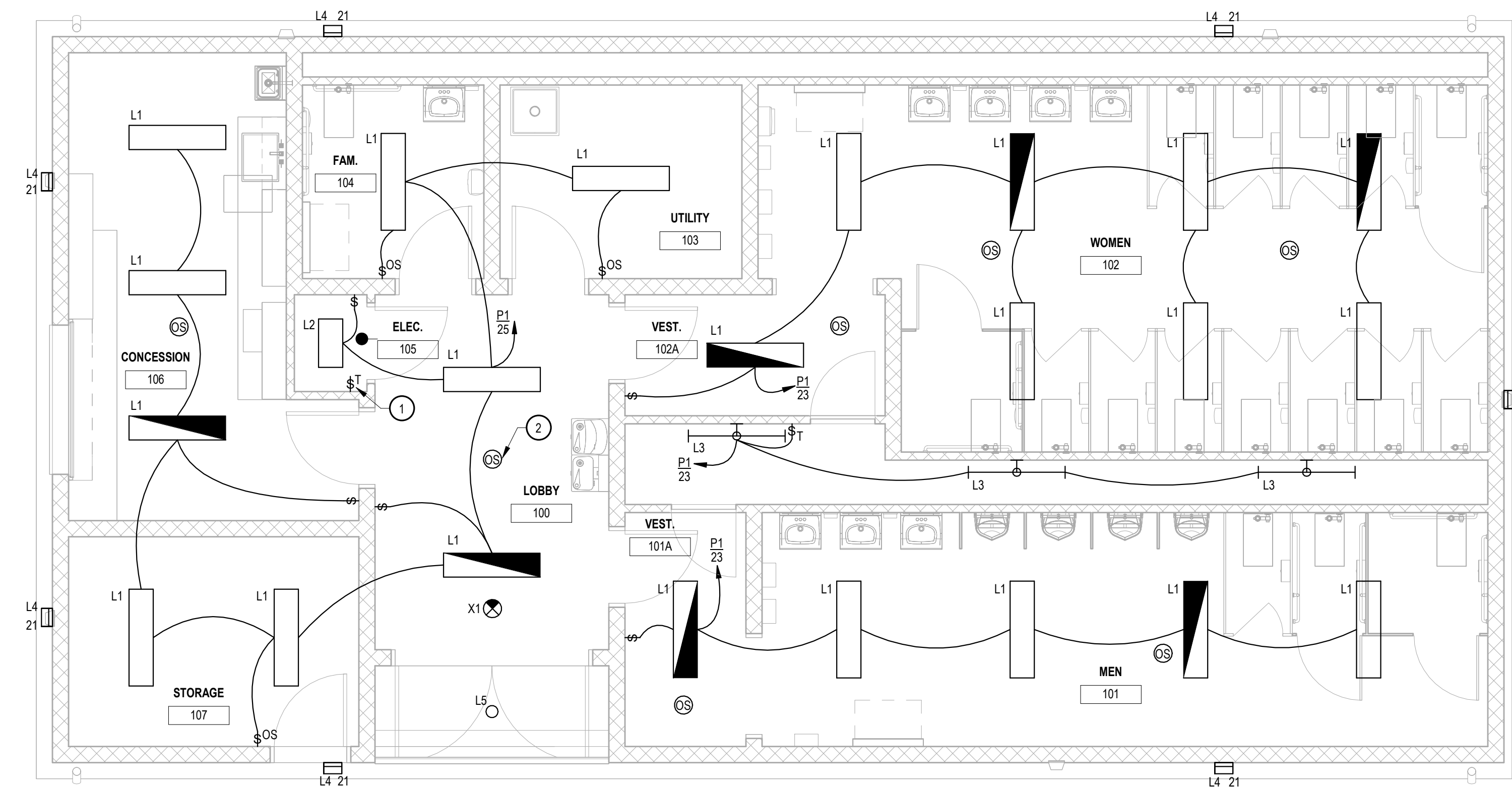
Drawing No:

E-002

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1 POWER PLAN
1/4" = 1'-0"



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

CODED NOTES:

- 1 PROVIDE DIGITAL ASTRONOMIC TIMER SWITCH FOR CONTROL OF EXTERIOR LIGHTS L4 AND L5. PROGRAM/SCHEDULE DEVICE PER OWNER'S INSTRUCTIONS.
- 2 PROVIDE ADDITIONAL POWER PACK FOR THE CONTROL OF FANS EF-1 AND SF-1. WIRE FROM POWER PACK TO MOTOR STARTERS IN UTILITY 103.

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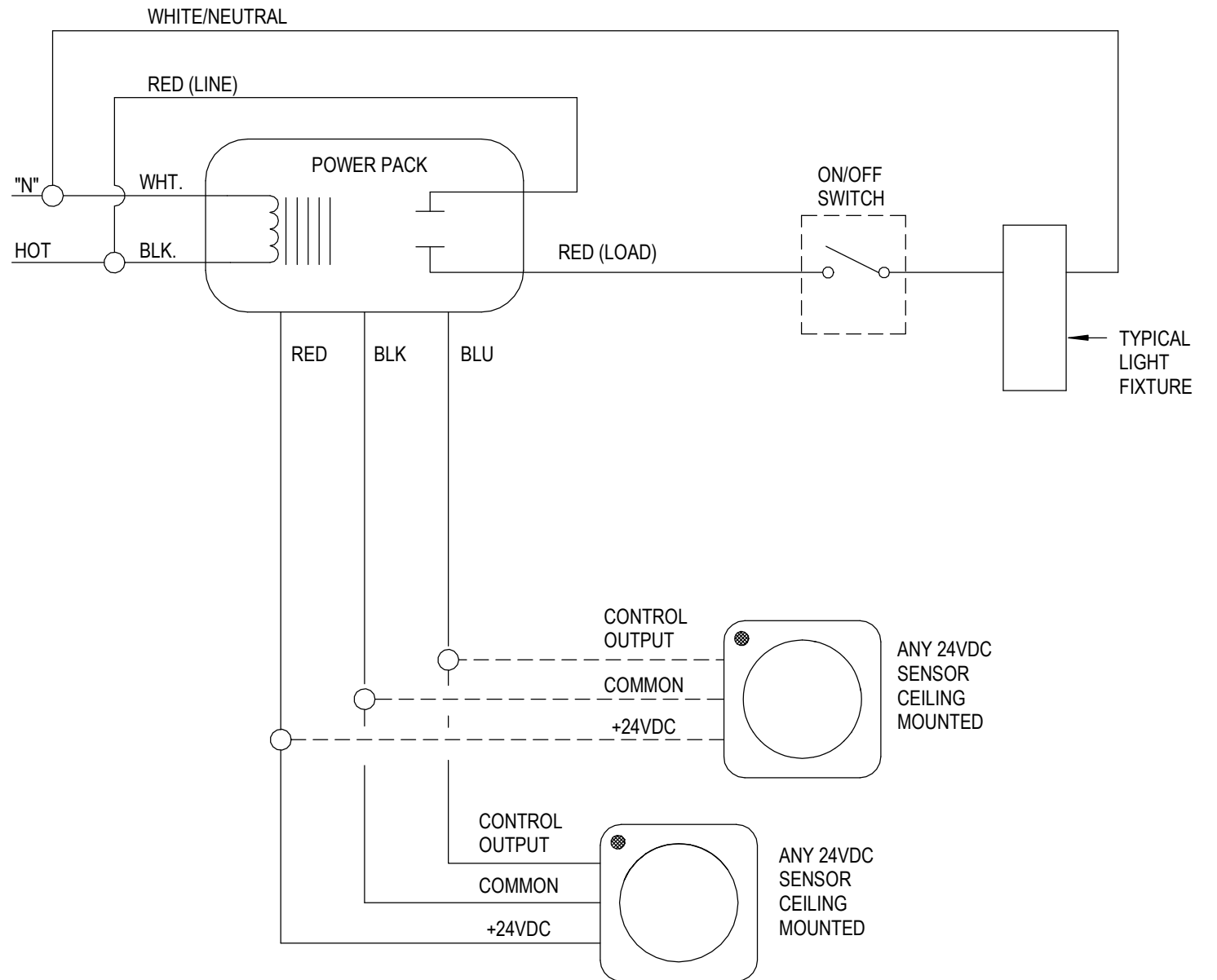
LIGHTING FIXTURE SCHEDULE													
FIXTURE DESIG.	TYPE	DESCRIPTION	MOUNTING	CCT	CRI	LUMENS	VOLTAGE	VA	WATTS	MANUFACTURER	MODEL	NOTES	
L1	LED	4-FT LONG LED WRAPAROUND STYLE FIXTURE WITH CURVED ACRYLIC LENS.	SURFACE CEILING	4000 K	80	4000 lm	120	38	34	LITHONIA	TRUM-48-AL08-CMP-69HW2-ZT-4MVOLT	PROVIDE WITH INTEGRAL EMERGENCY BATTERY BACKUP WHERE INDICATED ON PLANS.	
L2	LED	2-FT LONG SURFACE MOUNTED LENSED WRAPAROUND STYLE FIXTURE.	SURFACE CEILING	4000 K	80	2000 lm	120	19	17	LITHONIA	SBL2-2000LM-80CRI-39K-NODIM-MVOLT		
L3	LED	4-FT LONG LED STRIP FIXTURE WITH ROUND ACRYLIC LENS.	SURFACE WALL	4000 K	80	3000 lm	120	21	18.5	LITHONIA	CLXL48-3000LM-SEF-RDL-MVOLT-G210-40K-80CRI-WH	MOUNT AT 6'-0" AFF.	
L4	LED	ARCHITECTURAL WALL SCONCE, DIE-CAST ALUMINUM HOUSING, BLACK FINISH, RECTILINEAR SHAPE, FORWARD THROW OPTICS.	WALL	4000 K	80	1227 lm	120	11	10	LITHONIA	VDGE1-LED-P1-40K-80CRI-VF-MVOLT-SFM-PE-DBLXD		
L5	LED	6" ROUND DOWNLIGHT, WET LOCATION LISTED.	RECESSED CEILING	4000 K	80	1514 lm	120	19	17.5	LITHONIA	LDN6-4015-AR-LSS-MVOLT-G210		

EXIT SIGN SCHEDULE						
FIXTURE DESIG.	TYPE	DESCRIPTION	MOUNTING	VOLTS	WATTS	NOTES
XT	LED EXIT SIGN, RED LETTERS, WHITE THERMOPLASTIC HOUSING, UNIVERSAL MOUNTING CANOPY, WITH INTEGRAL BATTERY BACKUP.	CEILING SURFACE	120	2.0	LITHONIA	LQM-S-W-3-R-120/277

MOTOR AND EQUIPMENT CONNECTION SCHEDULE													
EQUIPMENT INFORMATION				LOAD DATA				CONTROLLER INFORMATION				LOCAL DISCONNECT SWITCH	
ID / TAG	EQUIPMENT DESCRIPTION	HP	FLA	KW	VOLTS	PH	PANEL OR MCC	PROVIDED BY	OTHERS	DIV. 26	TYPE	OTHERS	DIV. 26
EF-1	EXHAUST FAN	0.25 hp			120 V	1	P1	3			FVNR		
EW-1	ELECTRIC WATER HEATER			12.0 kW	208 V	3	P1	38,40,42					
P-1	CIRCULATING PUMP	0.10 hp			120 V	1	P1	7					
SF-1	SUPPLY FAN	0.25 hp			120 V	1	P1	5			FVNR		

MOTOR CONTROLLER SCHEDULE					
ID / TAG	CONTROLLER TYPE	COMBINATION TYPE (Y/N)	CONTROLLER OCPD RATING	CONTROLLER ENCLOSURE	NOTES AND ACCESSORIES
EF-1	FVNR	Yes	15 A	NEMA 1	
SF-1	FVNR	Yes	15 A	NEMA 1	

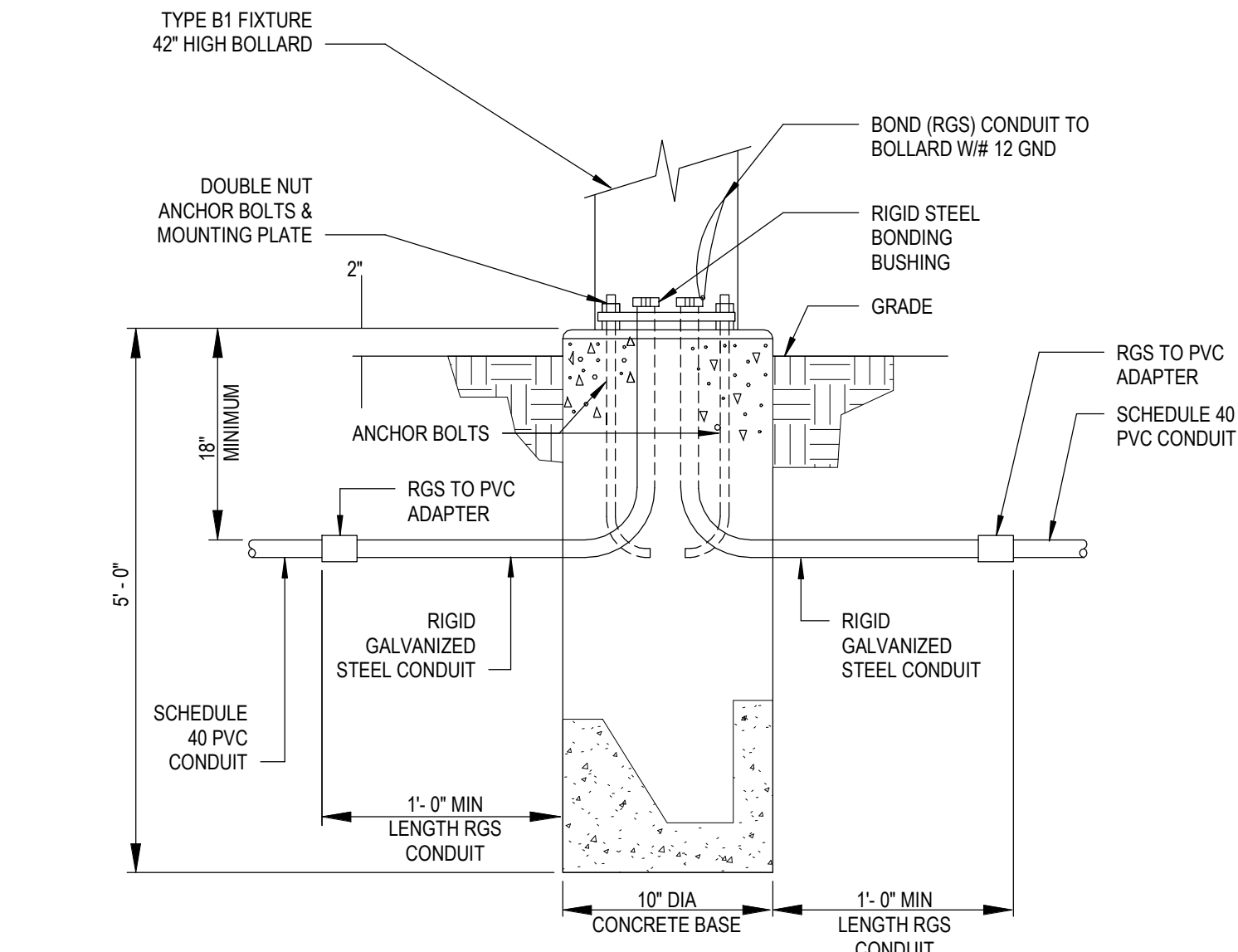
DISCONNECT SCHEDULE							
ID / TAG	TYPE	# OF POLES	SWITCH RATING	FUSE RATING	VOLTAGE RATING	ENCLOSURE	NOTES AND ACCESSORIES
EW-1	NFS	3	60 A	-	240 V	NEMA 1	
P-1	M	1	20 A	-	120 V	NEMA 1	



- NOTES:
- CONTRACTOR SHALL FIELD VERIFY PROPER PLACEMENT OF OCCUPANCY SENSOR TO ENSURE COMPLETE COVERAGE OF TARGET AREA. SENSOR SHALL BE LOCATED TO AVOID NUISANCE TRIPPING. CONTRACT DRAWINGS SHALL BE USED AS A GUIDELINE FOR PLACEMENT OF SENSORS ONLY. EXACT LOCATION MAY VARY TO PROVIDE A MORE PRECISE COVERAGE OF AREA.
 - CONTRACTOR SHALL ADHERE TO THE MANUFACTURERS RECOMMENDATIONS FOR SQUARE FLOOR COVERAGE OF DEVICES WHILE TAKING INTO CONSIDERATION ANY OBSTRUCTIONS AND/OR INTERFERENCE WHICH WOULD REQUIRE ADDITIONAL DEVICES.
 - REFER TO MANUFACTURERS REQUIREMENTS FOR INSTALLING ADDITIONAL SENSORS AND/OR POWER PACKS TO CIRCUIT.
 - INSTALL POWER PACKS IN OR AT AREA SERVED BY SENSOR.
 - ALL WIRING (#14 FOR LOW VOLTAGE) INSTALLED IN CONDUIT.

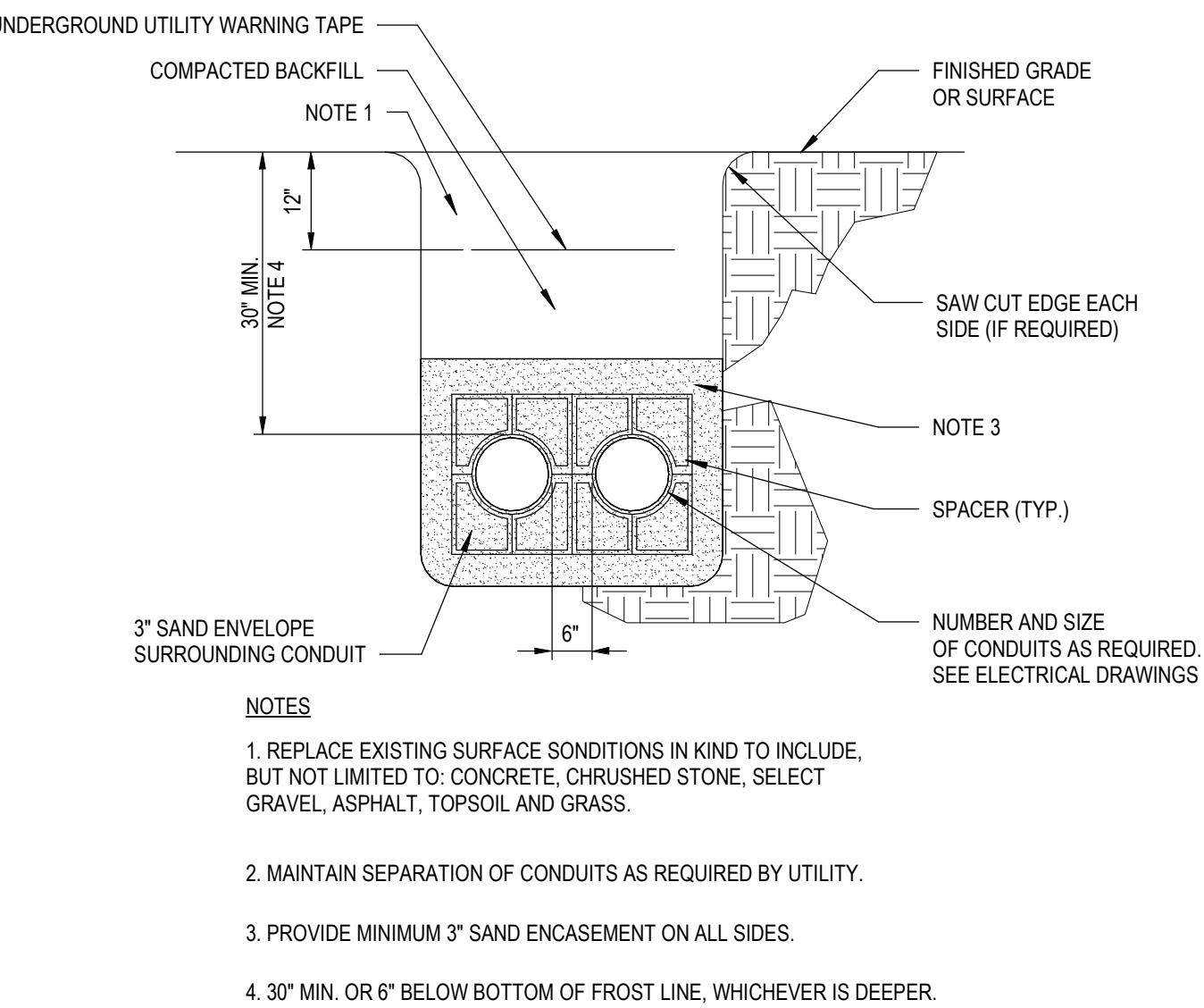
7 TYPICAL OCCUPANCY SENSOR WIRING DETAIL

NOT TO SCALE



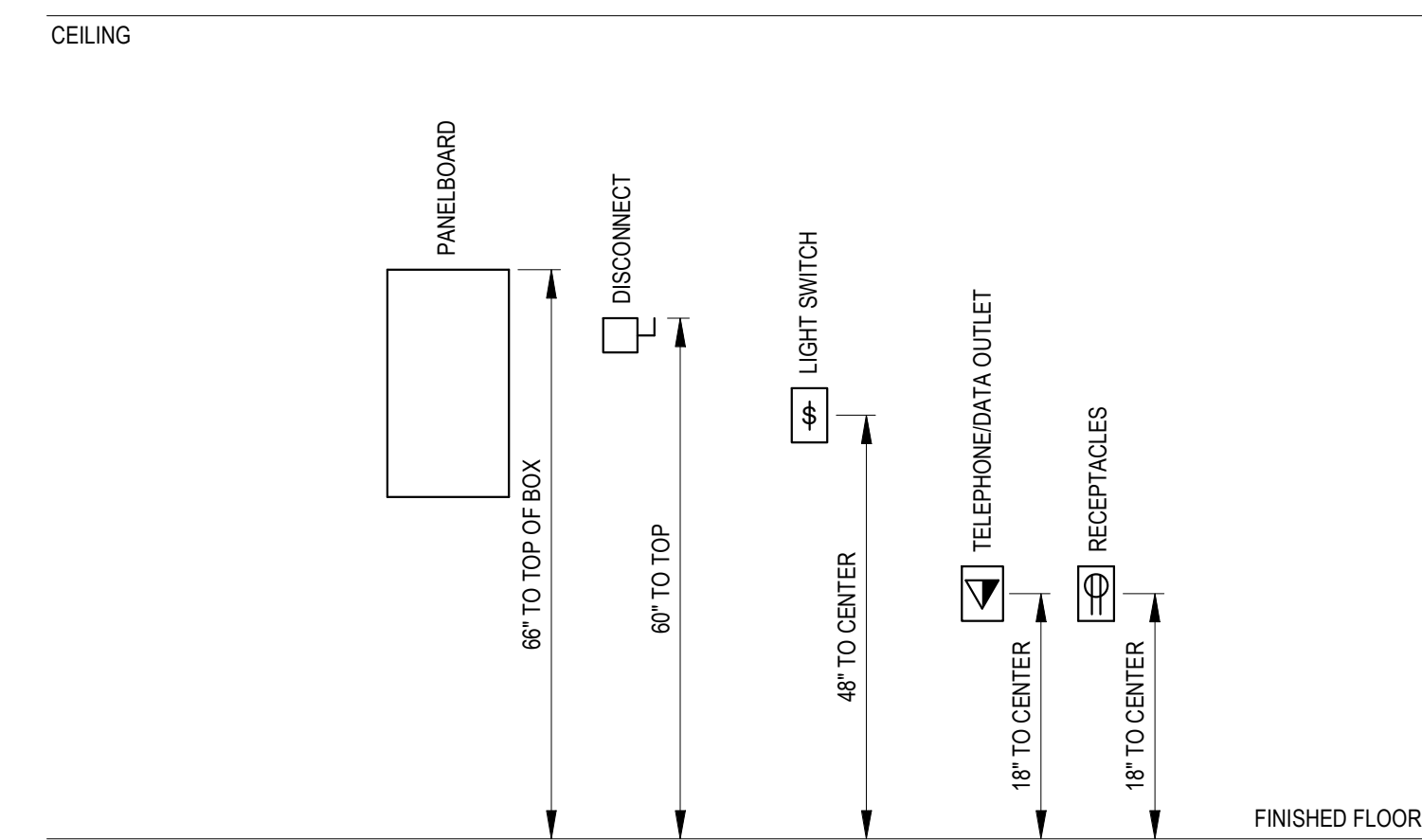
8 BOLLARD FOUNDATION DETAIL

NOT TO SCALE



6 MULTIPLE DIRECT BURIED CONDUITS DETAIL

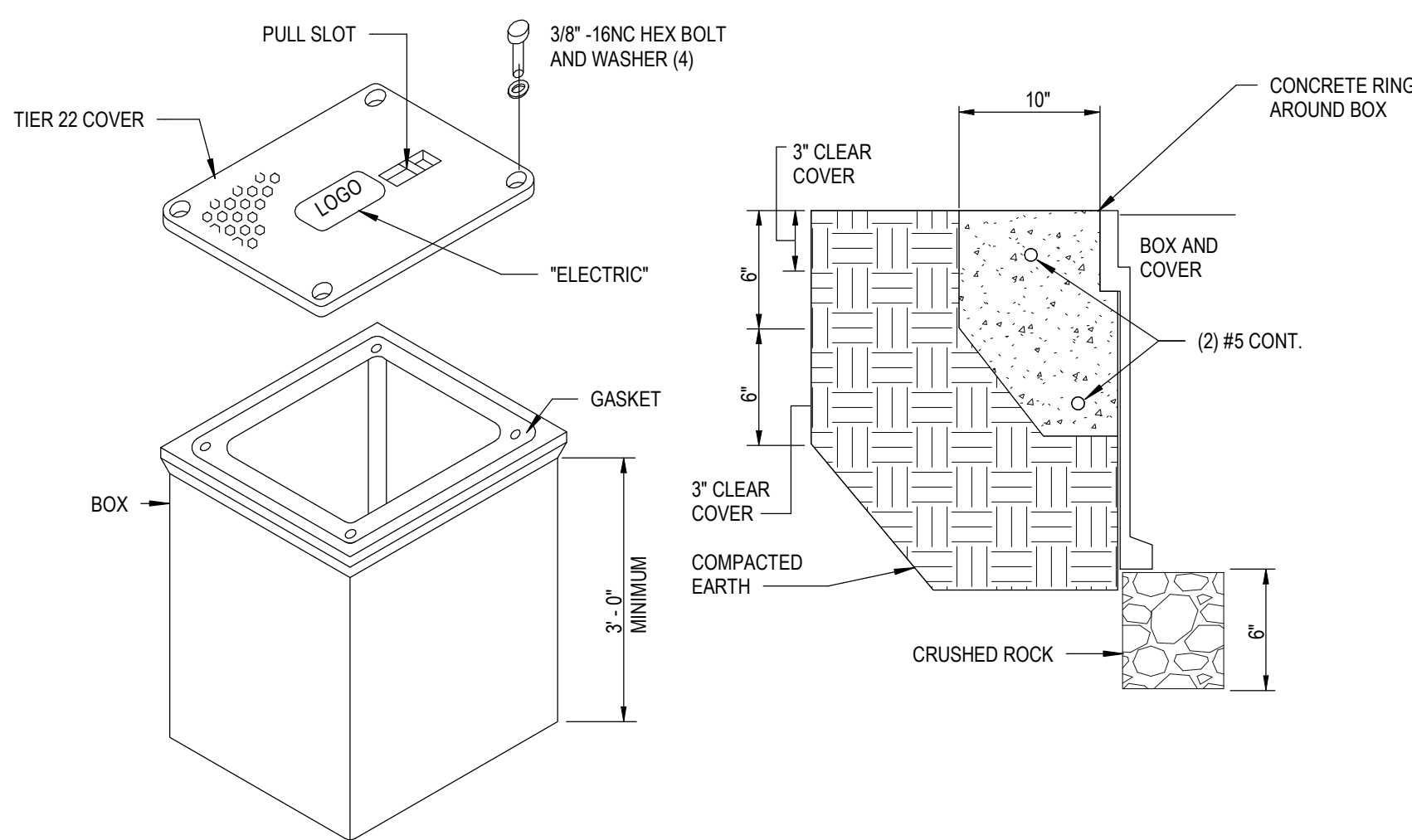
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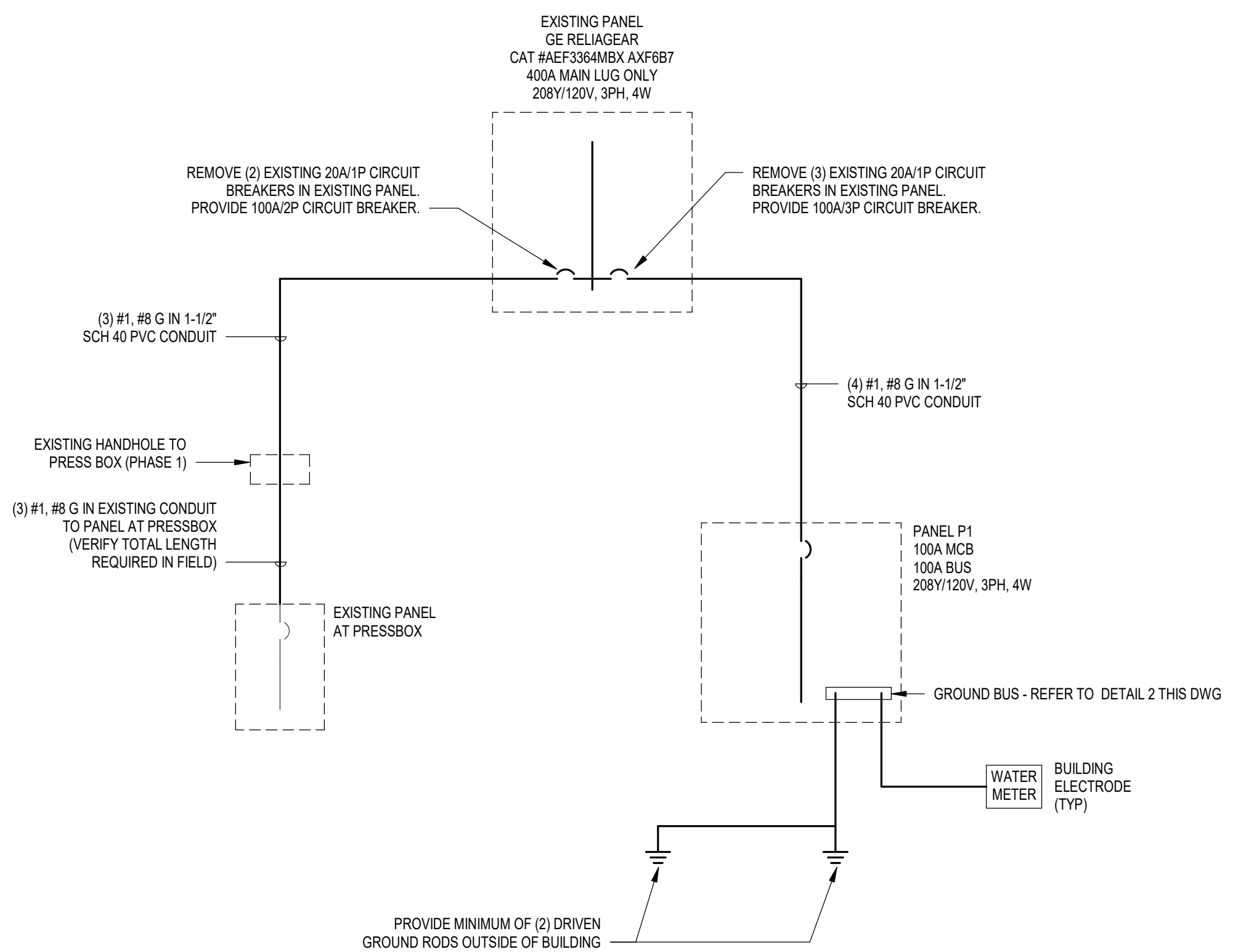
- MOUNTING ELEVATIONS NOTES:
- COORDINATE MOUNTING HEIGHTS WITH ARCHITECTURAL PLANS, ELEVATIONS AND CASEWORK DETAILS.
 - IN LOCATIONS WHERE DEVICES ARE MOUNTED AT THE SAME HEIGHT, DEVICES SHALL BE PROPERLY "GANGED" WHEN FEASIBLE AND SHALL HAVE A SINGLE COVER PLATE.
 - IN LOCATIONS WHERE DIFFERENT DEVICES ARE MOUNTED AT DIFFERENT HEIGHTS WITHIN FOUR FEET OF ONE ANOTHER, DEVICES SHALL BE MOUNTED SUCH THAT THEY HAVE A COMMON CENTERLINE. IF THERE ARE THREE OR MORE DEVICES, THE CONTRACTOR SHALL REQUEST A DETAIL FROM THE ARCHITECT.
 - ELEVATIONS SHOWN ARE TYPICAL, EXCEPTIONS ARE NOTED ON PLANS.

1 TYPICAL DEVICE MOUNTING HEIGHTS

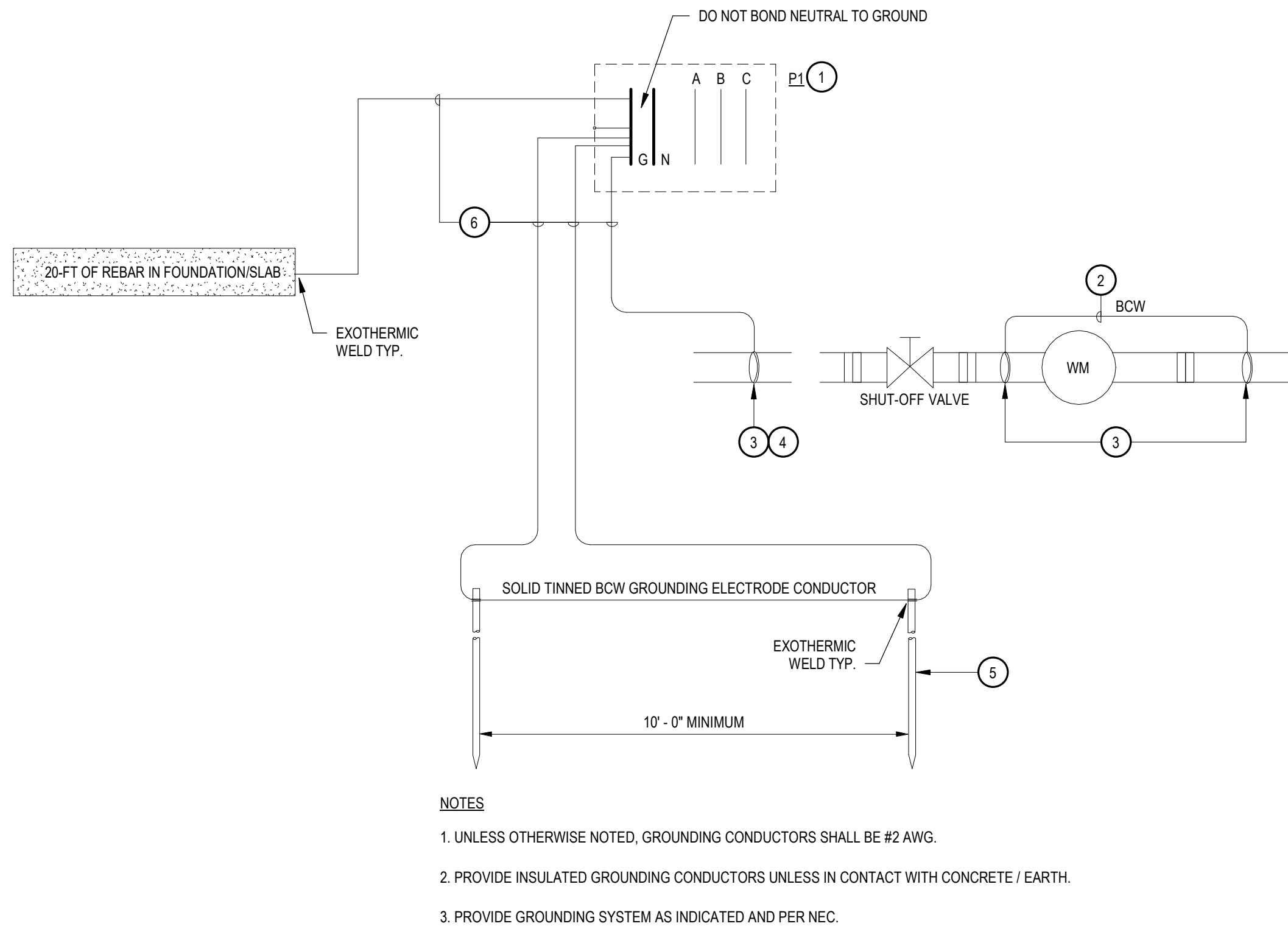
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1 ONE LINE DIAGRAM
NOT TO SCALE



2 BUILDING GROUNDING SCHEMATIC
NOT TO SCALE

PANEL SCHEDULE														
DESIGNATION: P1										MAINS TYPE: 100A MCB				
LOCATION: ELEC. 105										OCBP RATING: 100 A				
FED FROM:										BUS RATING: 100 A				
VOLTAGE: 208Y/120V										PANEL MOUNTING: SURFACE				
PHASE, WIRES: 3PH, 4W										MIN. BUS BRACING 10,000 AIC				
WIRING (SEE SCHEDULE)	CKT NO.	LOAD DESCRIPTION	**	AMPS	POLES	CONN. LOAD PHASE A (KVA)	CONN. LOAD PHASE B (KVA)	CONN. LOAD PHASE C (KVA)	POLES	AMPS	**	LOAD DESCRIPTION	CKT NO.	WIRING (SEE SCHEDULE)
	1	RECEPTACLE		20 A	1	0.2	0.2			1	20 A	RECEPT CONCESSION	2	
	3	EXHAUST FAN EF-1		15 A	1		0.7	0.2		1	20 A	RECEPT CONCESSION	4	
	5	SUPPLY FAN SF-1		15 A	1			0.7	0.2	1	20 A	RECEPT CONCESSION	6	
	7	RECIRC PUMP P-1		15 A	1	0.4	0.2			1	20 A	RECEPT CONCESSION	8	
	9	RECEPTS		20 A	1		0.5	0.2		1	20 A	RECEPT CONCESSION	10	
	11	RECEPT ELEC RM		20 A	1			0.2	0.2	1	20 A	RECEPT CONCESSION	12	
	13	RECEPTS - RESTROOMS		20 A	1	0.5	0.2			1	20 A	RECEPT CONCESSION	14	
	15	RECEPT CHASE		20 A	1		0.2	1.2		1	20 A	HAND DRYER	16	
	17	RECEPT OUTDOOR		20 A	1			0.2	1.2	1	20 A	HAND DRYER	18	
	19	RECEPT - EWC		20 A	1	0.7	1.2			1	20 A	HAND DRYER	20	
	21	LIGHTING - EXTERIOR		20 A	1		0.1	1.2		1	20 A	HAND DRYER	22	
	23	LIGHTING - RESTROOMS		20 A	1			0.6	0.0	1	20 A	SPARE	24	
	25	LIGHTING - ...		20 A	1	0.4	0.0			1	20 A	SPARE	26	
	27	SPARE		20 A	1		0.0	0.0		1	20 A	SPARE	28	
	29	SPARE		20 A	1			0.0	0.0	1	20 A	SPARE	30	
	31	SPACE		--	1	--	--			1	--	SPACE	32	
	33	SPACE		--	1	--	--	--	--	1	--	SPACE	34	
	35	SPACE		--	1	--	--	--	--	1	--	SPACE	36	
	37	SPACE		--	1	--	4.0						38	
	39	SPACE		--	1	--	--	4.0		3	45 A	EWB-1	40	(3)#6, #10 G IN 1" C
	41	SPACE		--	1	--	--	--	4.0				42	
TOTAL LOAD PER PHASE (KVA):						7.9 kVA	8.3 kVA	7.2 kVA						
TOTAL 3-PHASE LOAD (KVA):						23.3 kVA								
LOAD CLASSIFICATION		CONN. LOAD		DEMAND FACTOR		DEMAND LOAD		PANEL TOTALS						
HVAC		17342 VA		100.00%		17342 VA		TOTAL CONNECTED LOAD (A): 65 A						
Lighting		1014 VA		100.00%		1014 VA		DEMANDED LOAD (A): 66 A						
Motor		1200 VA		125.00%		1500 VA		SPARE CAPACITY (25%): 16 A						
Receptacle		3780 VA		100.00%		3780 VA		TOTAL EST. DEMAND LOAD (A): 82 A						
**NOTES:														



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO SEAL OR SIGN ANY DRAWING OR PLAN. IF ANY DRAWING OR PLAN OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE INFORMATION FILTERED BY FOLLOWING BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

RHODE ISLAND COLLEGE
TRACK SUPPORT
BUILDING

No. | Submittal / Revision | App'd. | By | Date

0 | BIDDING DOCUMENT | | | 11/05/2025

ELECTRICAL ONE LINE
DIAGRAM AND PANEL
SCHEDULE

Designed By: MG | Drawn By: MG | Checked By: JD
Issue Date: 11/05/25 | Project No: 090475 | Scale: AS SHOWN

Drawing No:
E-601