

STATE OF MAINE DEPARTMENT OF TRANSPORTATION



CREW QUARTERS MEDWAY PENOBSCOT COUNTY

WIN # 030331.00

SPECIFICATIONS

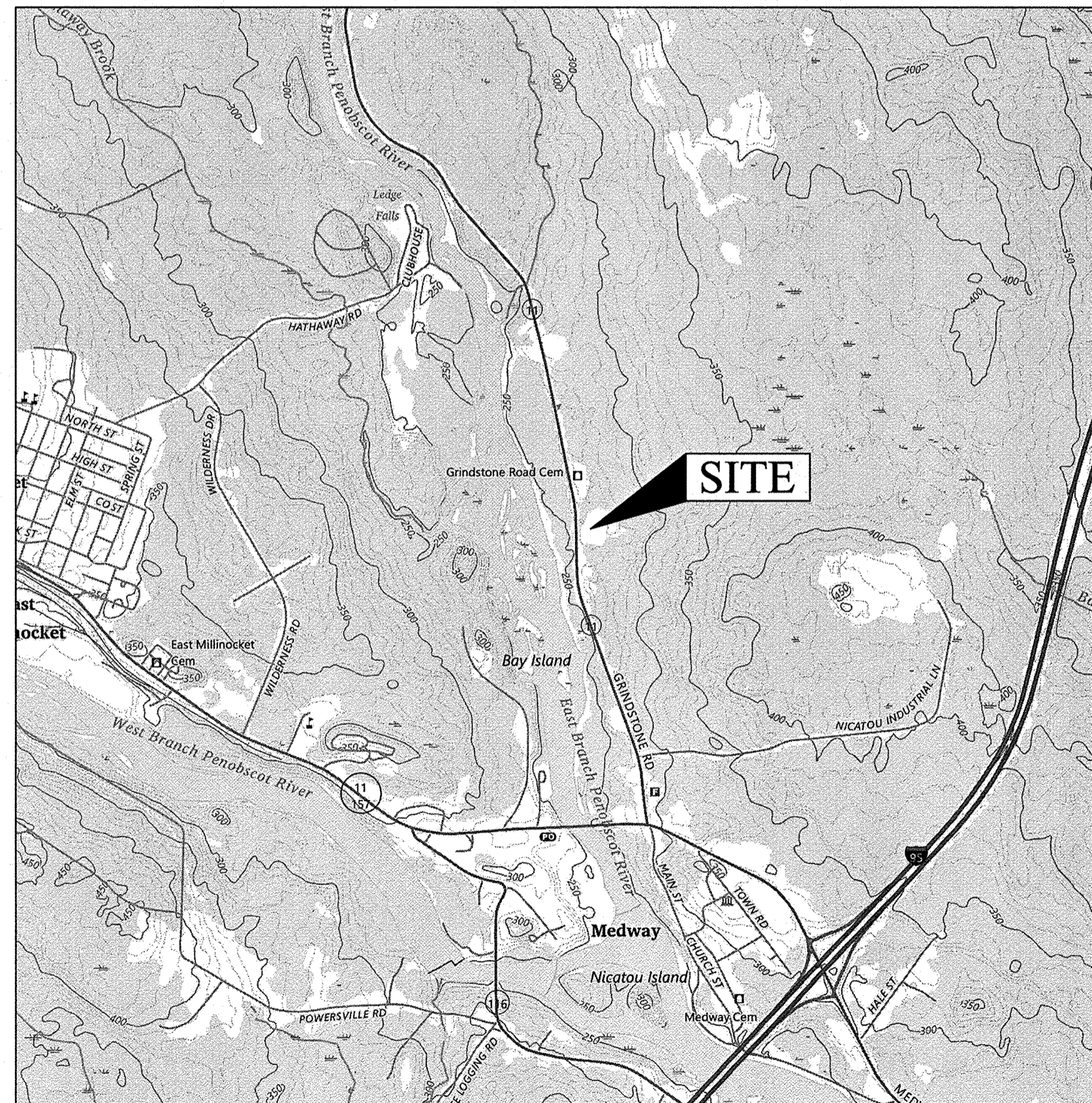
DESIGN: INTERNATIONAL BUILDING CODE 2021
ACI 318-08

DESIGN LOADING

LIVE LOAD SLAB-ON-GRADE 100 PSF
UNIFORM LOAD
GROUND SNOW LOAD 90 PSF
WIND SPEED 115 MPH

MATERIALS

REINFORCING STEEL ASTM A615, GRADE 60



LOCUS MAP NOT TO SCALE

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PROJECT LOCATION	MEDWAY
PROGRAM AREA	MAINTENANCE & OPERATIONS
SCOPE OF WORK	CREW QUARTERS DESIGN

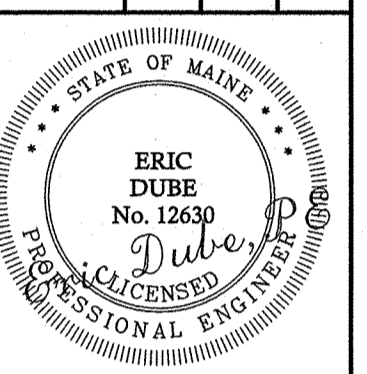
CONSULTANTS:

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DAVID MATERO ARCHITECTURE
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BENNETT ENGINEERING
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STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
	ACTING COMMISSIONER <i>[Signature]</i>	12-31-25
	CHIEF ENGINEER: <i>[Signature]</i>	12-31-2025



ME-12630	PE NUMBER	OCT. 2025	DATE
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FOR BID			

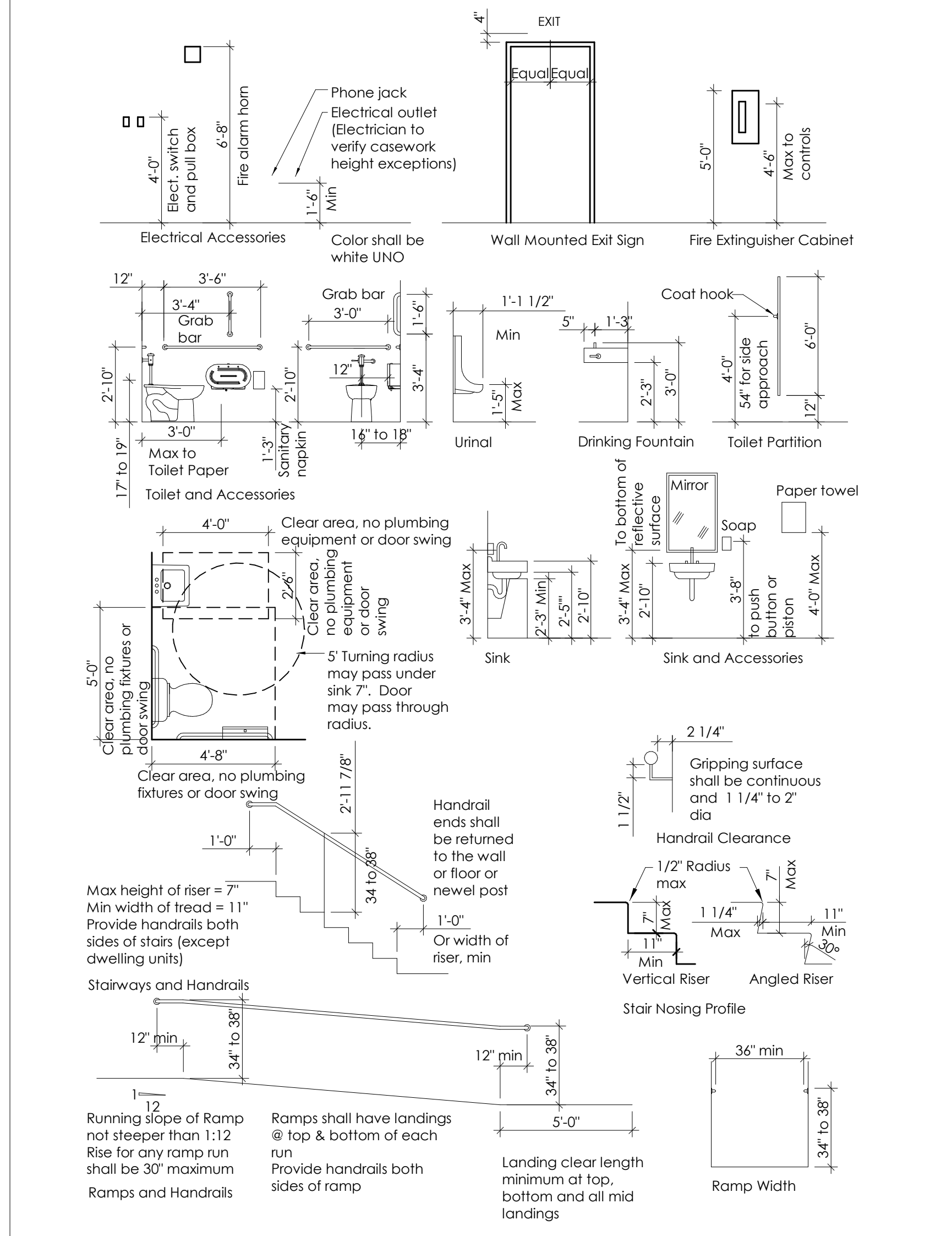
MDOT CREW QUARTERS
MEDWAY, MAINE
COVER SHEET

SHEET NUMBER
1

General Notes

- All work included in these drawings and specifications shall conform to all state, national, and other codes and ordinances.
- The General Contractor shall be responsible for obtaining building permits and for payment of all fees and hook-ups. MDTOT will obtain State Fire Marshal approval.
- The General Contractor shall obtain approval from the MDTOT for staging areas and hours of allowable work times.
- Provide appropriate reinforcing within partitions for support of all grab bars, shelving, brackets, cabinets, door frames, water coolers, cubbies, fire extinguishers, lighting and other wall mounted equipment or appliances indicated in documents.
- General Contractor shall maintain a safe egress way throughout construction that is clearly identified.
- All doors shall be located a minimum of 4" (wall to frame) off adjoining stud walls, UNO.
- All handicapped toilet rooms, grab bars, and door openings shall meet the requirements of ANSI 117.1 latest edition, and the American Disability Act (ADA) for handicapped accessibility.
- All gypsum wall board within 3'-0" of plumbing fixtures shall be moisture resistant.
- Walls and partitions within 2'-0" of service sinks, urinals, and water closets shall have a smooth, hard, non-adsorbent surface, to a height of not less than 4'-0" above the finish floor (MR gypsum board is not acceptable as a finished product)
- Before penetrating or otherwise modifying joists, beams, or other structural members, consult with the Architect on maximum size and locations of penetrations.
- Provide double studs at all door frames over 3'-0" wide.
- All materials provided in this building shall be new and not previously used, UNO.
- All exits shall be kept readily accessible and unobstructed at all times.
- Location of every exit shall be clearly indicated by exit signs placed, if required, at an angle with the exit opening. Install directional signs to serve as guides from all portions of the corridor or floor.
- Dimensions are to face of framing, studs, structural grid lines and/or foundations UNO.
- Install Rockwool sound attenuation batt insulation in all bathroom partitions and above gypsum board ceilings.
- General Contractor shall properly dispose of all demolished and construction debris off-site, and shall make every effort to conserve and recycle materials.
- General Contractor shall install backing in walls for cabinetry, shelving, handrails, mirrors, and accessories.
- Provide a continuous bead sealant in all joints in the building envelope and penetrations that may allow for passage of moisture or vapor gas through structure.
- All signage to conform with ADA, including raised braille characters in public areas.
- Do not scale drawings, work from dimensions only
- General Contractor shall verify all dimensions and report any discrepancies to the Architect before proceeding with any work
- Guarantee: All materials and work shall be guaranteed for a minimum of one year from the date of final payment.

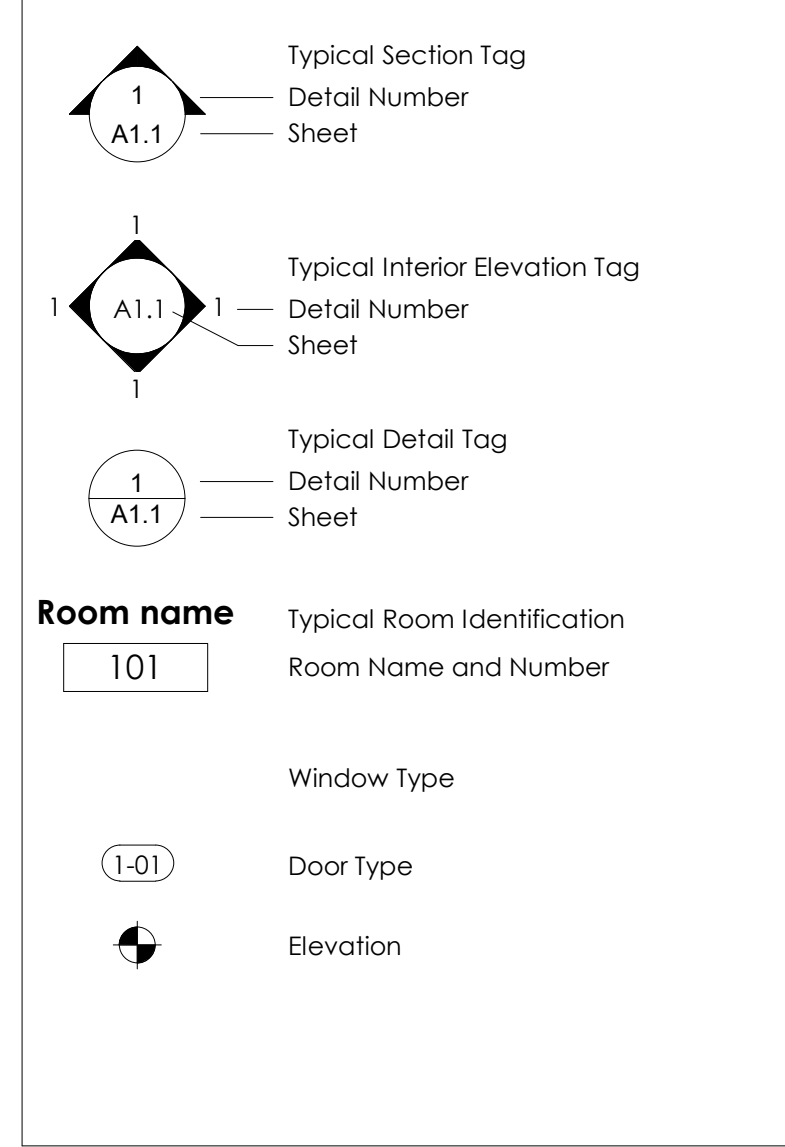
Standard Heights and Clearances / Typical Barrier Free Requirements



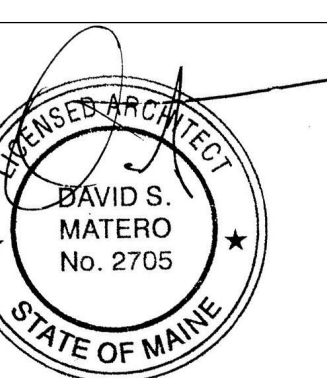
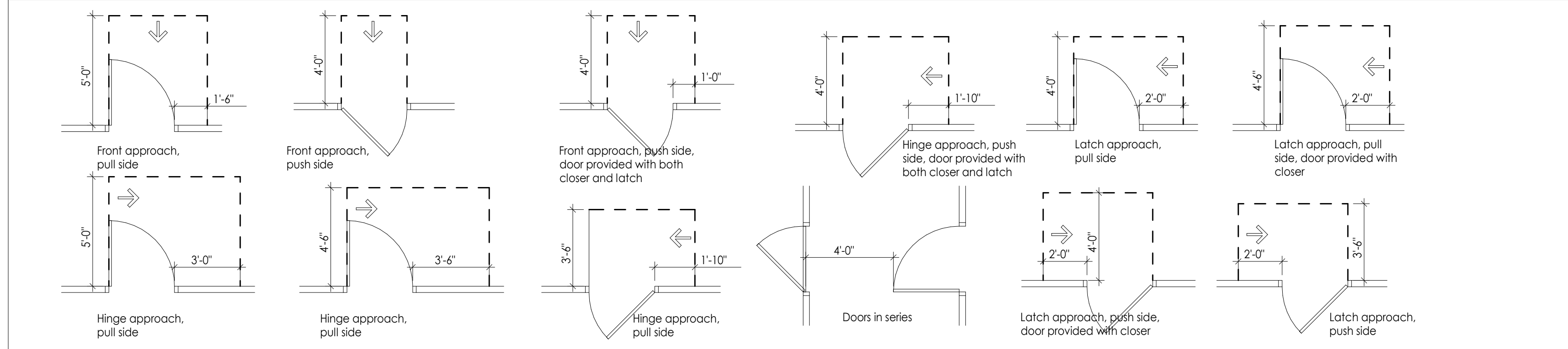
Abbreviations

Act	Acoustical Tile	Ga	Gauge	Prep	Preparation
AFF	Above Finished Floor	GC	General Contractor	PSF	Pounds per Square Foot
Alt	Alternate	GI	Glass	PSI	Pounds per Square Inch
Alum	Aluminum	GWB	Gypsum Wallboard	PT	Pressure Treated
AP	Access Panel	Gyp	Gypsum	QT	Quarry Tile
Arch	Architect				
BD	Board	HD	High Density	R	Radius, Riser
Bit	Bituminous	HR	Hour	RD	Roof Drain
Bldg	Building	HC	Hollow Core	Rec	Recreation
Bldg	Building	H. Hgt	Height	Rect	Rectangular
BO	Bottom Of	HM	Hollow Metal	Ref	Reference
Btw	Between	Hor	Horizontal	Req	Required
		Htg	Heating	Rein	Reinforcing
		HVAC	Heating/Ventilation/Air Conditioning	Rev	Revised, Revision
Cab	Cabinet	HW	Hot Water	Rm	Room
CB	Catch Basin	Hyd	Hydrant	RO	Rough Opening
CF	Cubic feet			RWB	Rubber Wall Base
CJ	Control Joint				
Clc	Closet	Incl	Include, Including	S	South
Clg	Ceiling	ID	Inside Diameter	San	Sanitary
CMU	Concrete Masonry Unit	In (")	Inch	SC	Solid Core
Co	Cleanout	Insul	Insulate, Insulating	SD	Storm Drain
Col	Column	Int	Interior	SF	Square Foot
Conc	Concrete	Inv	Invert	Sht	Sheet
Const	Construction	JC	Janitor's Closet	Sim	Similar
Cont	Continue, Continuous	Jt	Joint	Spec	Specification
Coord	Coordinate			STC	Sound Transmission Coefficient
CT	Ceramic Tile	Lam	Laminated	Std	Standard
CUH	Cabinet Unit Heater	Lav	Lavatory	Stl	Steel
CW	Cold Water	LCC	Lead Coated Copper	Sto	Storage
CY	Cubic Yard	LF	Linear Foot	Susp	Suspended
		Lin	Linear		
DAP	Dens Armor Plus	Max	Maximum	Tr	Tread
Dbl	Double	Mech	Mechanical	Tel	Telephone
DF	Drinking Fountain	Mfr	Manufacturer	Temp	Temperature, Tempered
Dia	Diameter	Misc	Miscellaneous	T&G	Tongue and Groove
Diag	Diagonal	MO	Masonry Opening	Th	Thickness
Dim	Dimension	MR	Moisture Resistant	TO	Top of
Dn	Down	Mtd	Mounted	TV	Television
Dwg	Drawing	Mtg	Mounting	Typ	Typical
		Mtl	Metal		
E	East	UL	Underwriters Laboratories	UNO	Unless Noted Otherwise
Ea	Each	N	North	Util	Utility
EF	Exhaust Fan	Nat	Natural		
EJ	Expansion Joint	NIC	Not in Contract	VCT	Vinyl Composition Tile
Elev	Elevation	No	Not to Scale	Vent	Ventilation
Elec	Electrical	NTS	Not to Scale	Vert	Vertical
Eq	Equal	OC	On Center	Vest	Vestibule
ETR	Existing to Remain	OD	Outside Diameter	VWB	Vinyl Wall Base
Exam	Examination	OH	Opposite Hand		
Ex, Exist	Existing	PI	Plate	W	West, Width
Exp	Expansion	Plam	Plastic Laminate	W/D	Washer / Dryer
Ext	Exterior	Plywd	Plywood	WC	Water Closet
		Pnt	Paint	Wd	Wood
FAP	Fire Alarm Pull	Poly	Polyethylene	W/O	Without
FBO	Furnished by Owner	Pre	Pre-finished	WWM	Welded Wire Mesh
FCO	Floor Clean Out			XPS	Extruded Polystyrene
FD	Floor drain				
Fdn	Foundation				
FEC	Fire Extinguisher Cabinet				
Fg	Fiberglass				
Fin	Finish				
Fir	Floor				
FO	Face Of				
FRP	Fiberglass Reinforced Panel				
Ft (')	Foot				
Fig	Footling				

Legend Symbol



Maneuvering Clearances at Manual Swinging Doors and Gates



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CODE ANALYSIS

MDOT Crew Quarters
Medway, ME

APPLICABLE CODES
The building shall comply and / or conform with the following construction codes, standards and guidelines which includes the Maine Uniform Building and Energy Code
International Building Code (IBC) - 2021 Edition International Existing Building Code (IEBC) - 2021 Edition International Energy Conservation Code (IECC) - 2021 Edition ASHRAE 62.1 Ventilation for Acceptable Indoor Air Quality - 2016 Edition ASHRAE 90.1 Energy Standards for Buildings except Low-Rise Residential - 2016 Edition NFPA 101 Life Safety Code - 2018 Edition Uniform Plumbing Code (UPC) - 2015 Edition ADA Standards for Accessible Design, Dept of Justice - 2010 Edition

USE AND OCCUPANCY CLASSIFICATION	PROJECT REQUIREMENTS	CODE REFERENCE
USE CLASSIFICATION:	B: Business [Assembly space with less than 50 Occupants]	IBC Sect 304, LSC Chpt 3

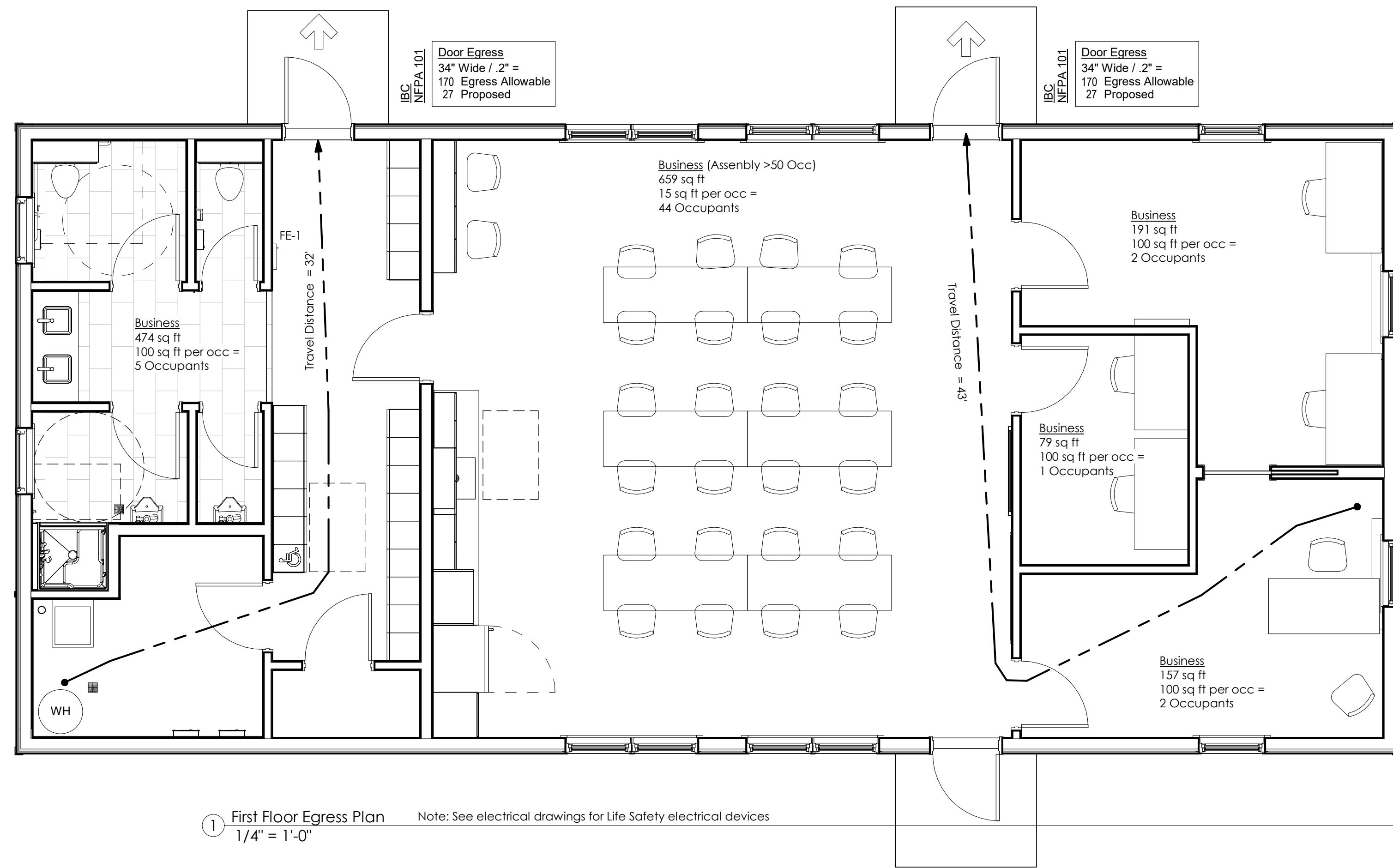
CONSTRUCTION TYPE / FIRE BARRIER RATINGS	PROJECT REQUIREMENTS	CODE REFERENCE
CONSTRUCTION CLASSIFICATION:	Type VB	IBC Table 504.4
Required Separation - Most restrictive, NFPA 101, requirements used	N/A	IBC Table 508.4, LSC Chpt 6
Fire Resistance Rating Requirements		IBC Table 601 Reference IBC Section 202
Primary Structural Frame	0 Hour	
Exterior Bearing Walls	0 Hour	
Interior Bearing Walls	0 Hour	
Exterior Non-Bearing Walls	0 Hour	
Interior Non-Bearing Walls	0 Hour	
Floor Construction - including supporting beams and joists	0 Hour	
Roof Construction - including supporting beams and joists	0 Hour	
Fire Barriers: Corridors	0 Hour	Reference Table 1020.1
Fire Barriers: Exit Enclosures	0 Hour	Reference Table 707.3
Fire Barriers: Shafts	0 Hour	IBC Section 713
Elements requiring supporting construction to be rated, shall have supporting construction rated equal to element being supported		

BUILDING HEIGHT AND AREA	PROJECT REQUIREMENTS	CODE REFERENCE
Allowable Building Height Above Grade:	40 Feet	IBC Table 504.3
Allowable No. of Stories Above Grade:	2 Stories	IBC Table 504.4
Actual Height / Stories:	16'-11" +/- / 1 Stories	
Allowable Building Area: Construction Type(s) = square feet	Type VB [NS] = 9,000 sf	
Actual Building Square Feet (sf)	1,646 +/- sf	

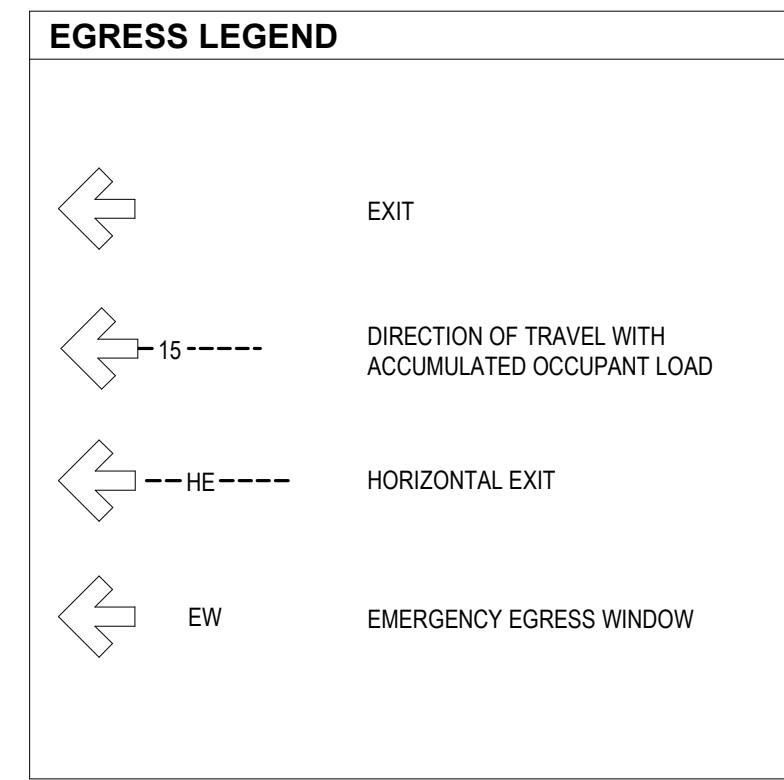
INTERIOR FINISHES	PROJECT REQUIREMENTS	CODE REFERENCE
Minimum Finish Class	B	IBC Table 803.11
Exits:	Class A	LCS Chpt 10
Corridors:	Class B	
Rooms:	Class C	

MEANS OF EGRESS	PROJECT REQUIREMENTS
Refer to Life Safety Plans; Number, Location and Capacity of Exits and Travel Distances	
Common Path of Travel Distance: Business, (B)	Reference Life Safety Plans 100 Feet - [Without Sprinkler] IBC Table 1006.2.1 LCS Table A.7.6
Maximum Exit Access Travel Distance: Business (B)	Reference Life Safety Plans 200 Feet - [Without Sprinkler]
Stories with One Exit - B Occupancies	IBC Table 1006.3.2
Egress width - Inches per occupant	NFPA 101, CH. 7, TABLE 7.3.3.1 & IBC Section 1005
Doors:	0.2 [S]
Stairs:	0.3 [S]
Corridors:	0.2 [S]
Other Egress Components:	0.2 [S]

IECC Commercial Energy Efficiency	
Required	Provided
Climate Zone	6
Attic & Other R value - R-49	R-50
Wood Framed Exterior Wall - R20+R3.8ci	R-21+R6ci
Mass Wall Above Grade - R13.3ci	R-20
Below Grade Wall (non-heated slab) - R-10ci	R-20
Unheated slabs - R-20 for 24" below	R-20
Fixed Fenestration - U 0.34	N/A
Operable Fenestration - U 0.42	U 0.20 (Double Hung) U.18 (Awning)
Entrance Door - U.63	U 0.34

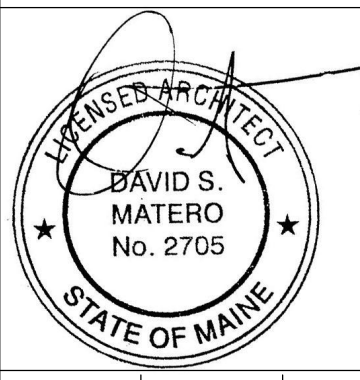


1 First Floor Egress Plan Note: See electrical drawings for Life Safety electrical devices
1/4" = 1'-0"



STATE OF MAINE DOT
CREW QUARTERS MEDWAY, MAINE
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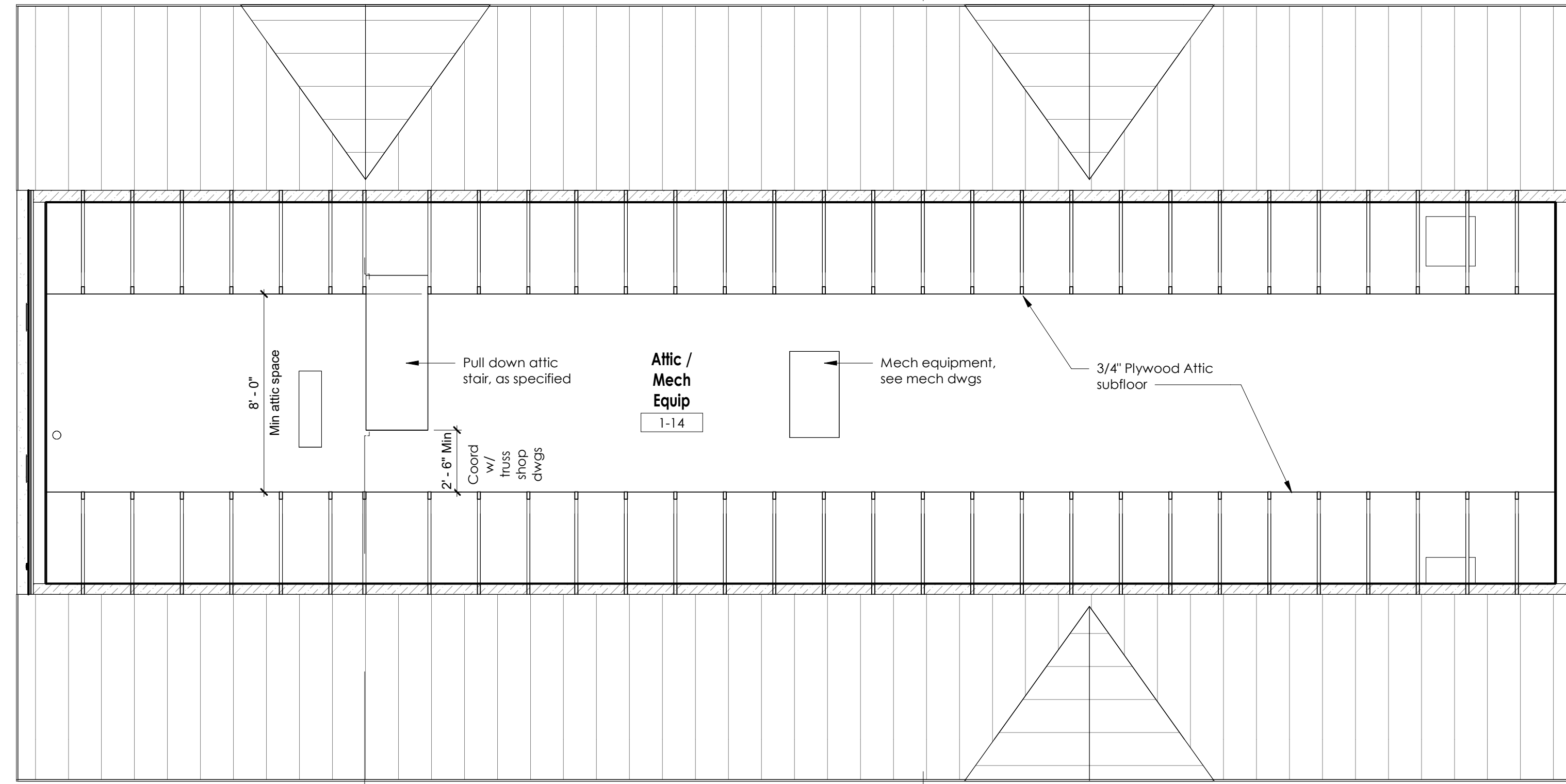
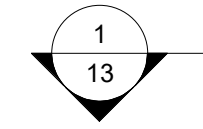
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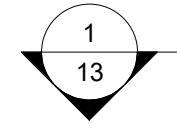
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FOR BID	
DATE	OCT. 2025
PE NUMBER	2705

CREW QUARTERS
MEDWAY, MAINE
CODE ANALYSIS

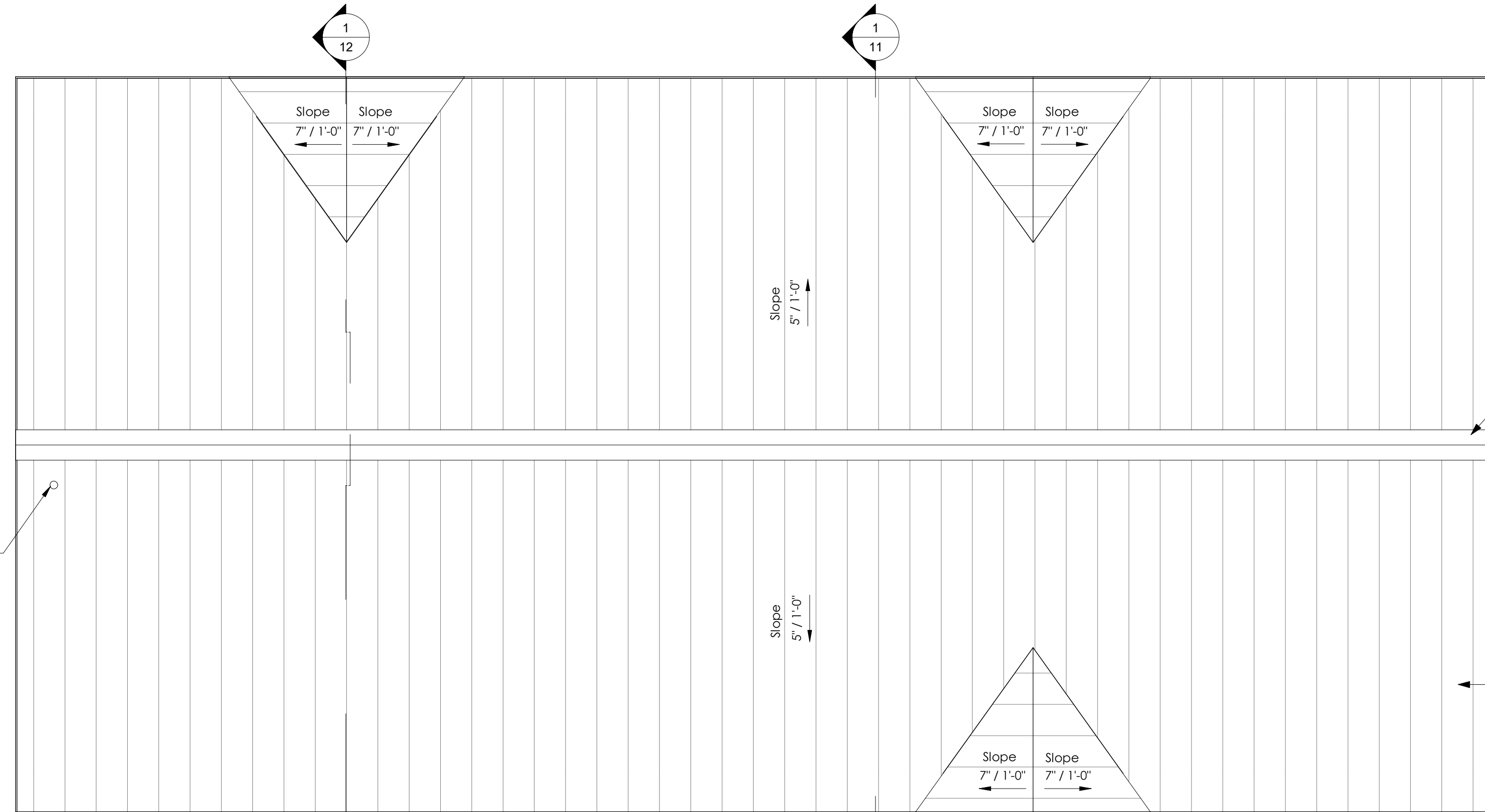
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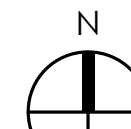
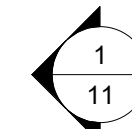
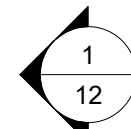
② Attic
1/4" = 1'-0"



Radon pipe, see plumbing drawings. Coord location at roof with rib spacing



① Roof Plan
1/4" = 1'-0"

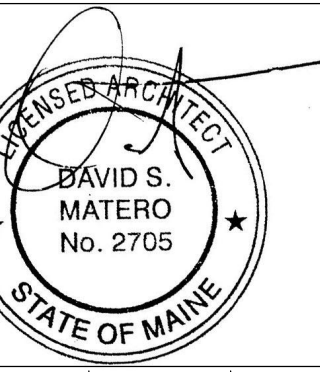


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CREW QUARTERS MEDWAY, MAINE
MEDWAY, MAINE
WIN 030331.00

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CREW QUARTERS
MEDWAY, MAINE

ATTIC & ROOF PLAN

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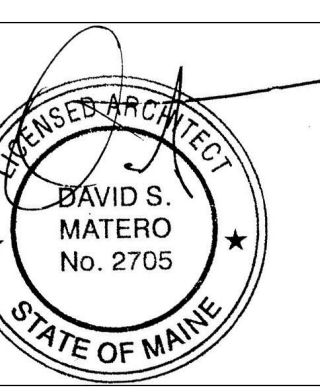
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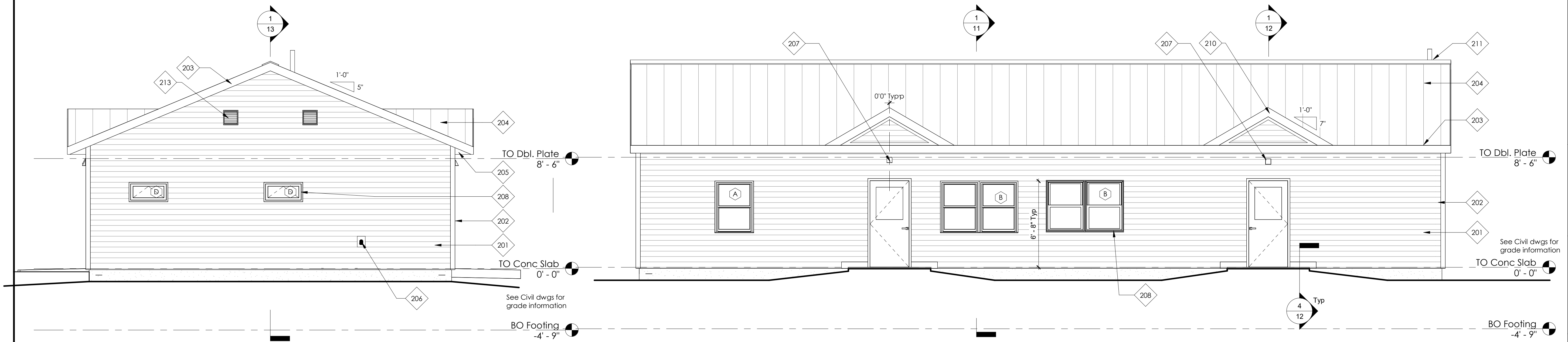
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CREW QUARTERS
MEDWAY, MAINE
BUILDING ELEVATIONS

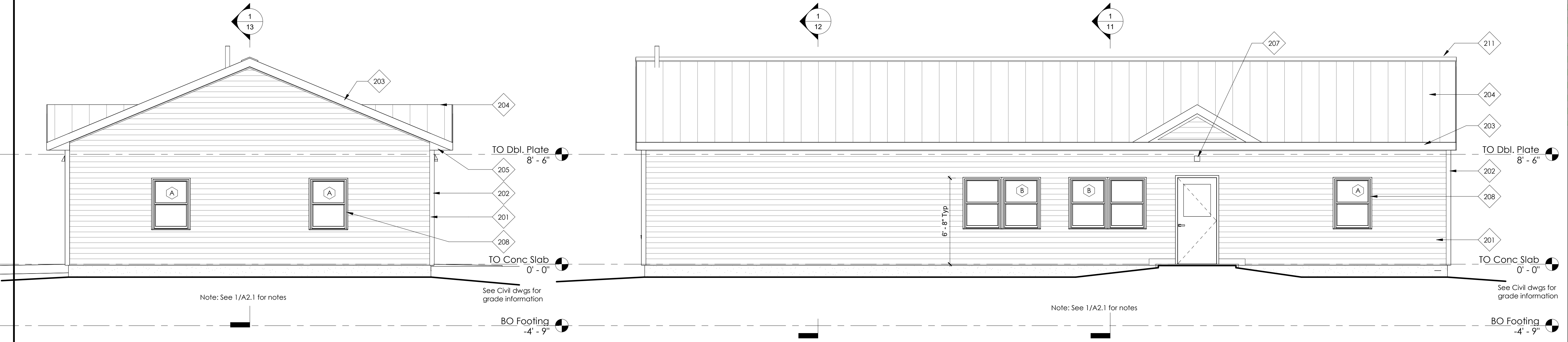
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③ North Elevation
1/4" = 1'-0"

① South Elevation
1/4" = 1'-0"



④ South Elevation
1/4" = 1'-0"

② North Elevation
1/4" = 1'-0"

Exterior Elevation Key Notes	
201	Exterior horizontal vinyl siding
202	Vinyl siding corner trim
203	Metal wrapped exterior fascia board, see details. Color = Forest green
204	Metal roofing as specified. Color = Forest green

Exterior Elevation Key Notes	
205	Metal wrapped wd closure panel @ soffit, typ. Color = Forest green
206	Frost protected hose bib
207	Light fixture, see electrical drawings
208	Vinyl window, as specified

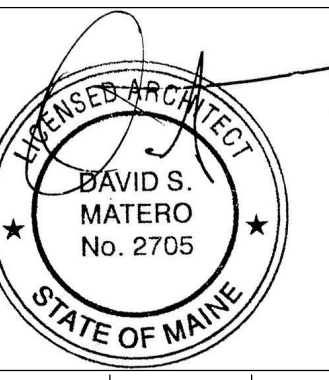
Exterior Elevation Key Notes	
210	Metal wrapped exterior trim, see details. Color = Forest green
211	Ridge vent, by metal roofing mfr. Color = Forest green
212	Venting vinyl soffit
213	Louver, see mechanical dwgs. Coord location with mechanical requirements.

Note: See 1/A2.1 for notes

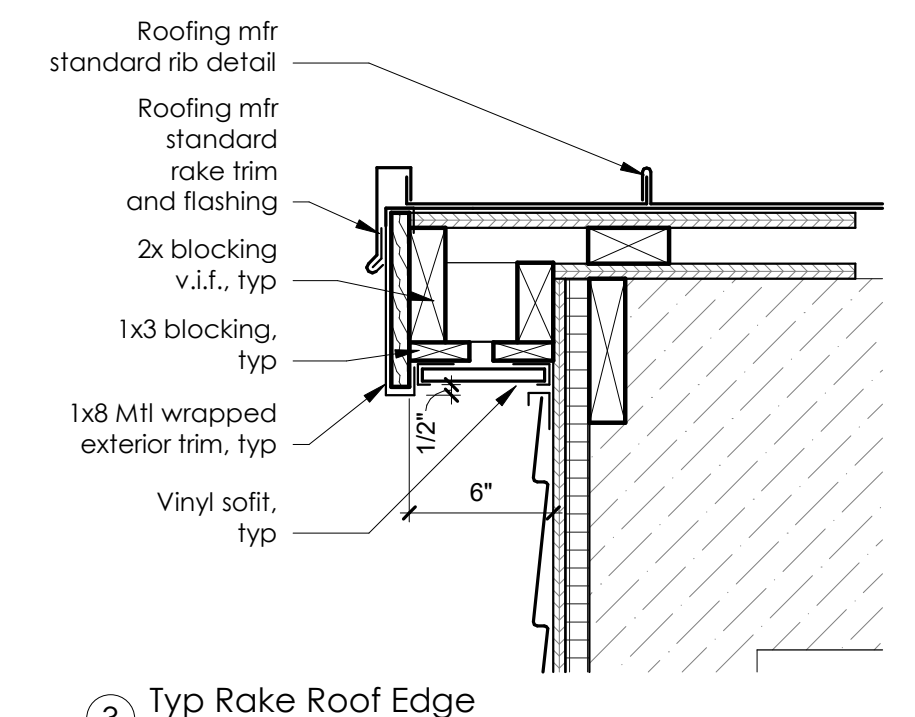
See Civil dwgs for grade information

Note: See 1/A2.1 for notes

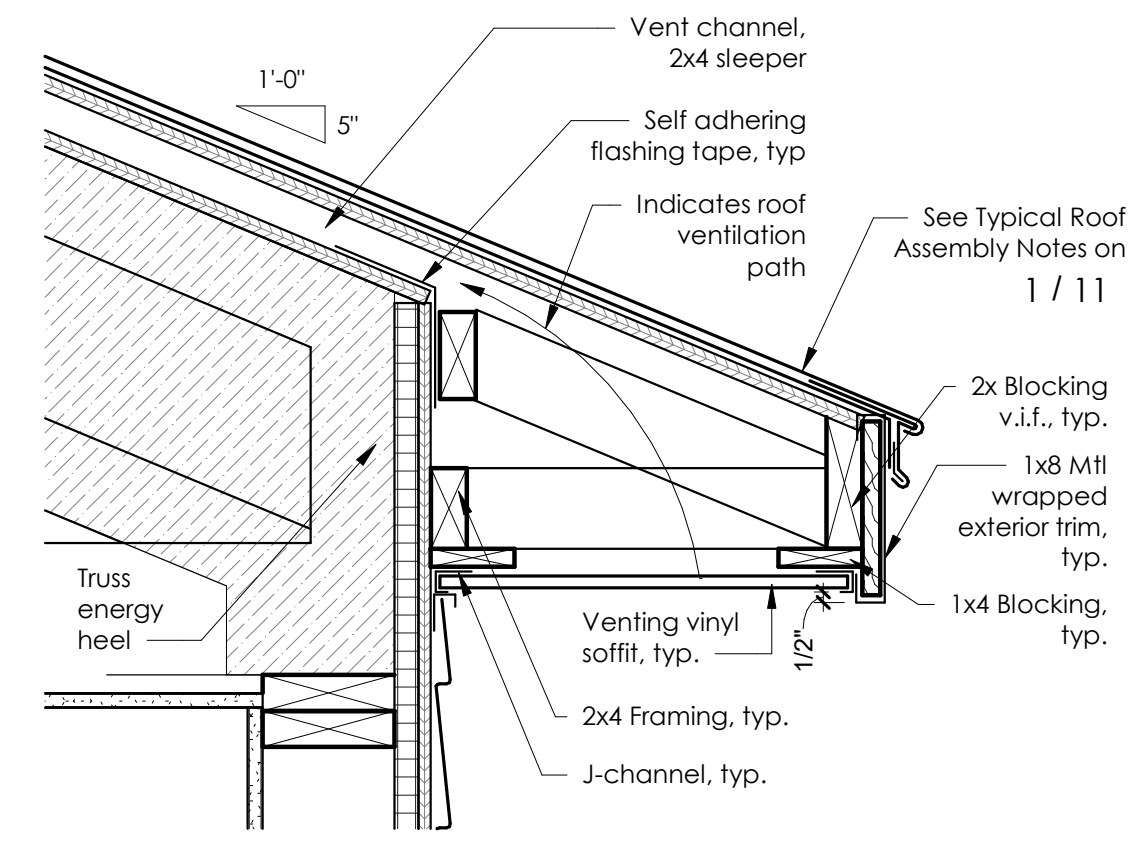
See Civil dwgs for grade information



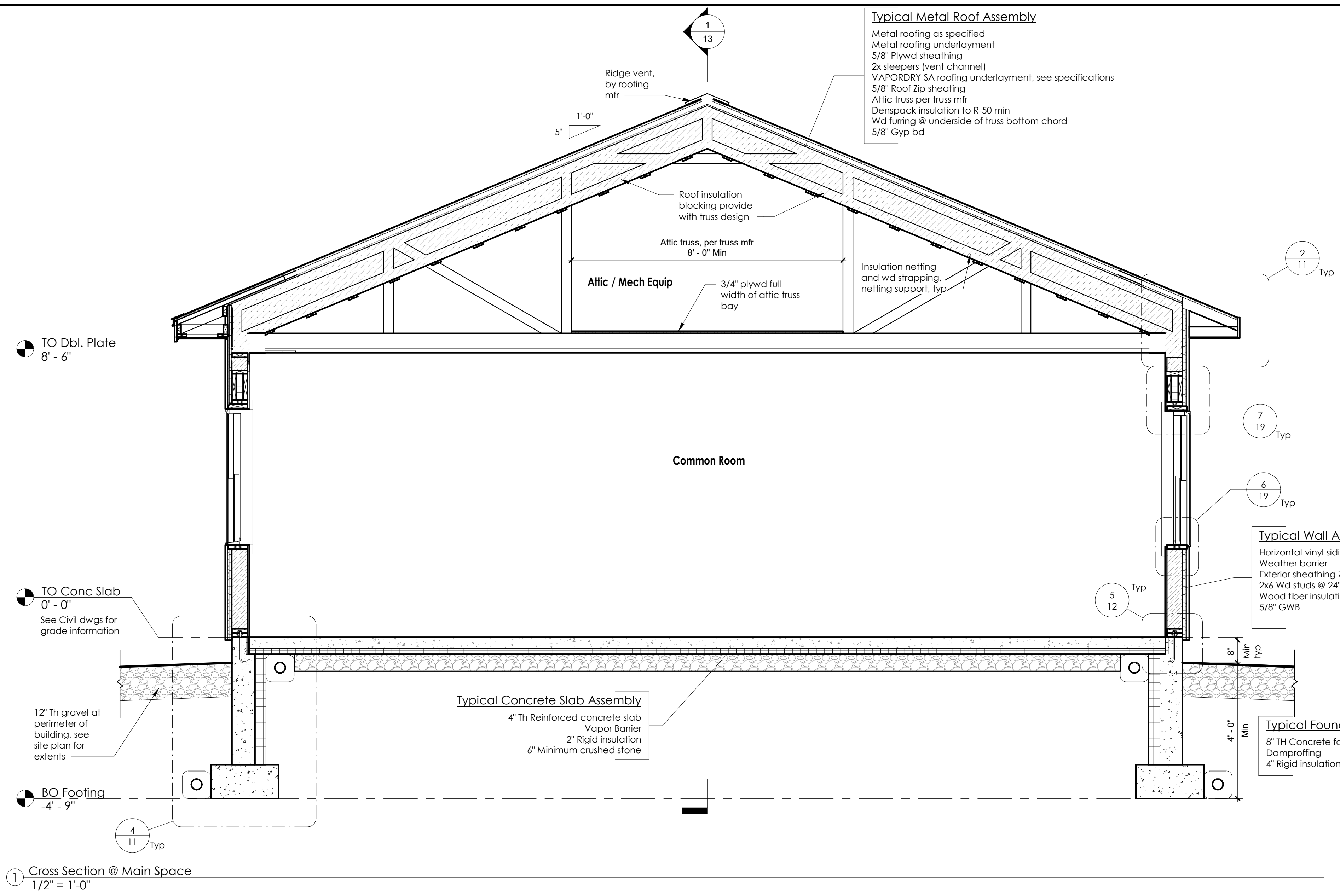
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3 Typ Rake Roof Edge
 1 1/2" = 1'-0"



2 Typ Roof Edge @ Eave
 1 1/2" = 1'-0"

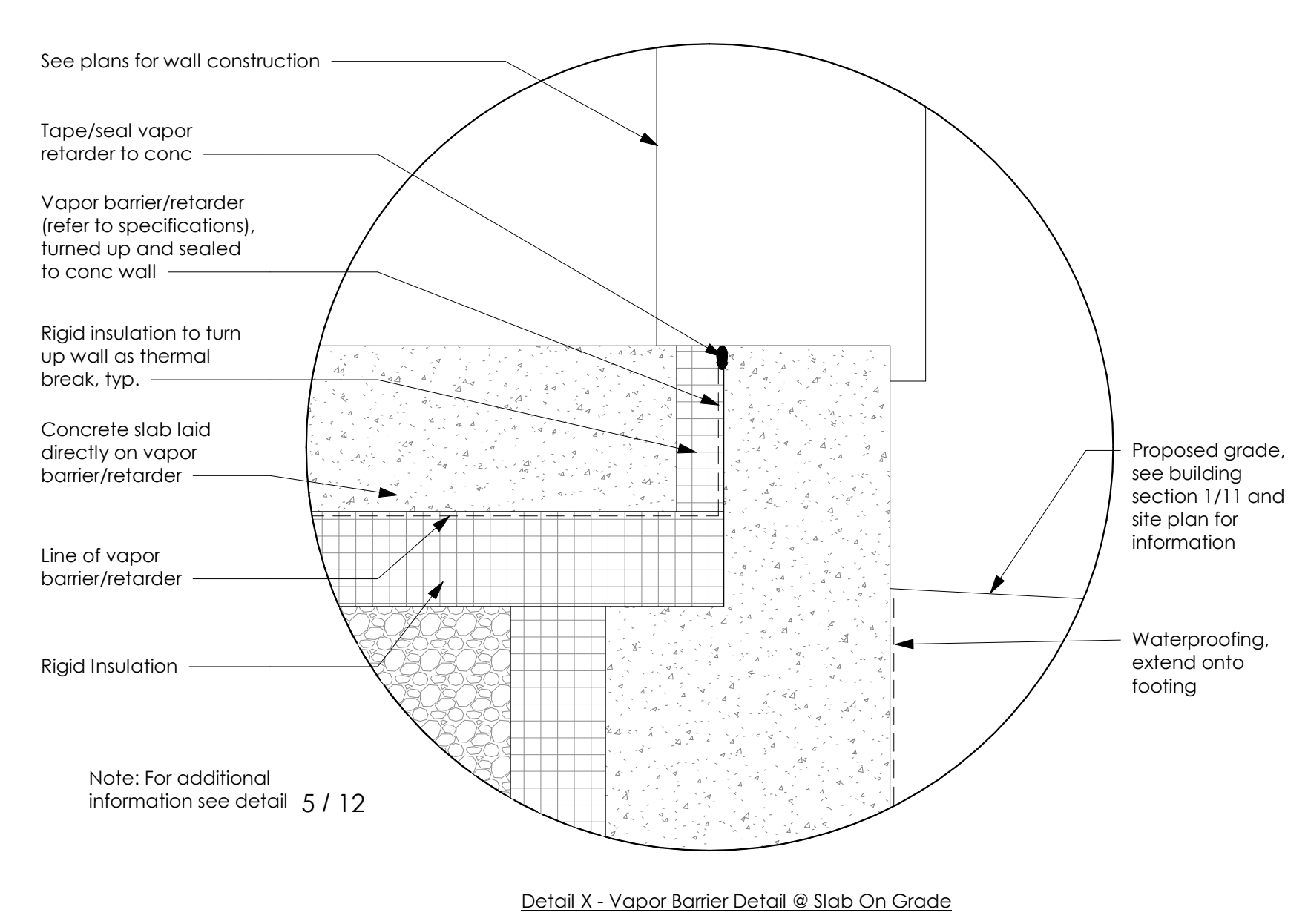
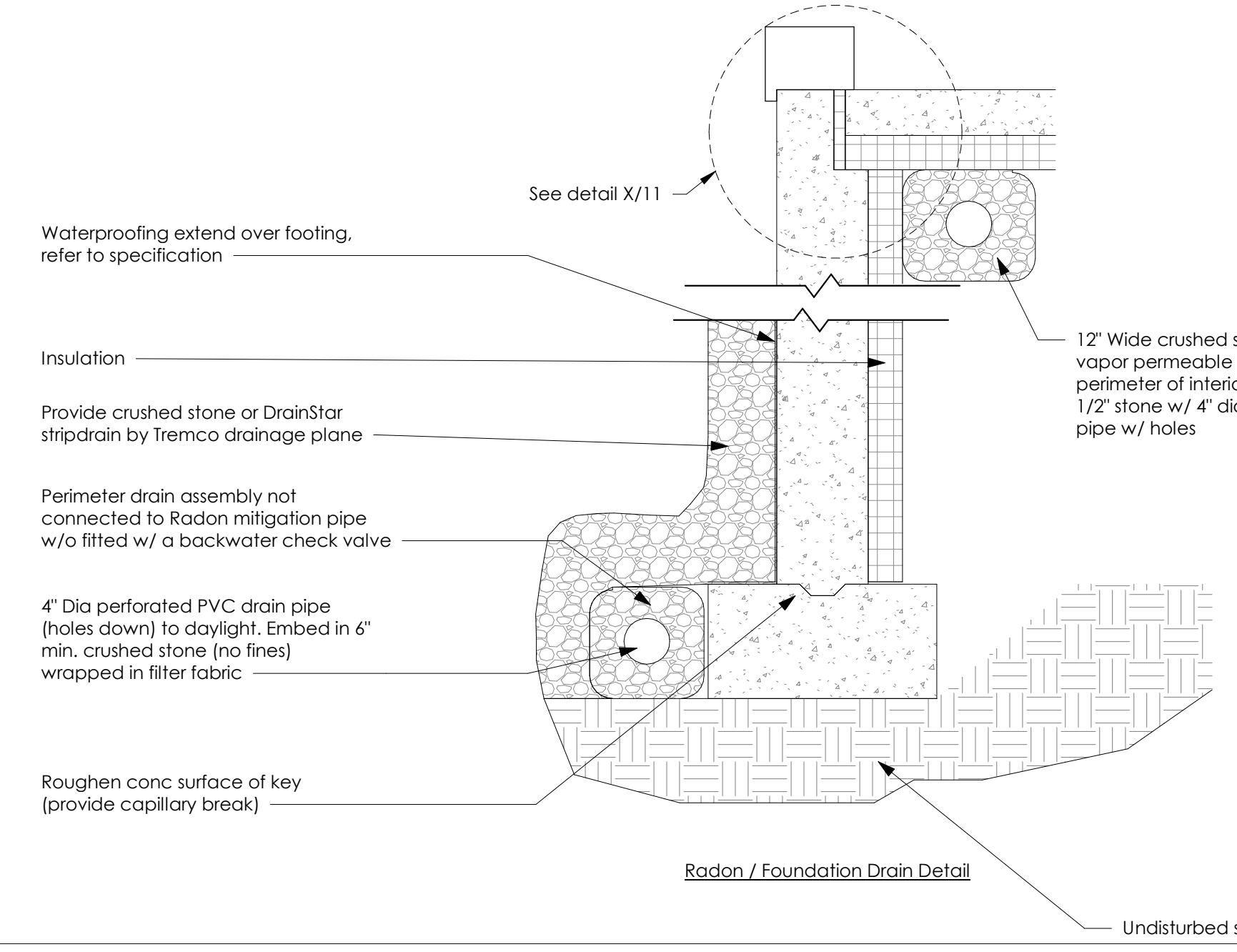


Radon Mitigation Notes

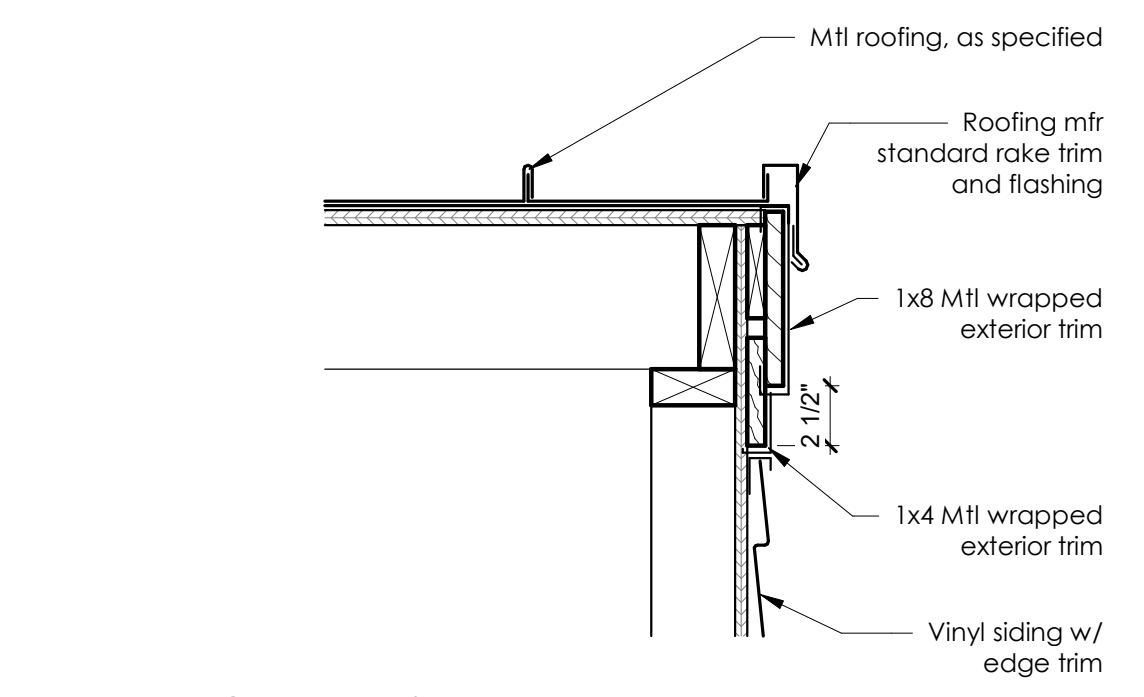
- Radon mitigation shall meet ASTM E2121 Standard Practice for Radon Control Options for the Design and Construction of New Low-Rise Residential Buildings.
- 4" Vent stacks shall be sealed to vapor retarder barriers.
- Vent stacks shall be non-perforated Schedule 40 PVC pipe and labeled "Radon Pipe" at each floor.
- Horizontal vent stack must slope downward to drain water and condensate into the gas permeable layer.
- When vent stack passes through unconditioned attic space, it must be insulated.
- Where vent stack penetrates roof, it shall be 10' minimum from a window, door, or chimney opening, 2' above opening, and 12' above the roof.
- Provide electrical outlet in attic with the ability to power a future inline tubular fan rated at least 75 cfm. Locate fan in unconditioned space.

General Notes

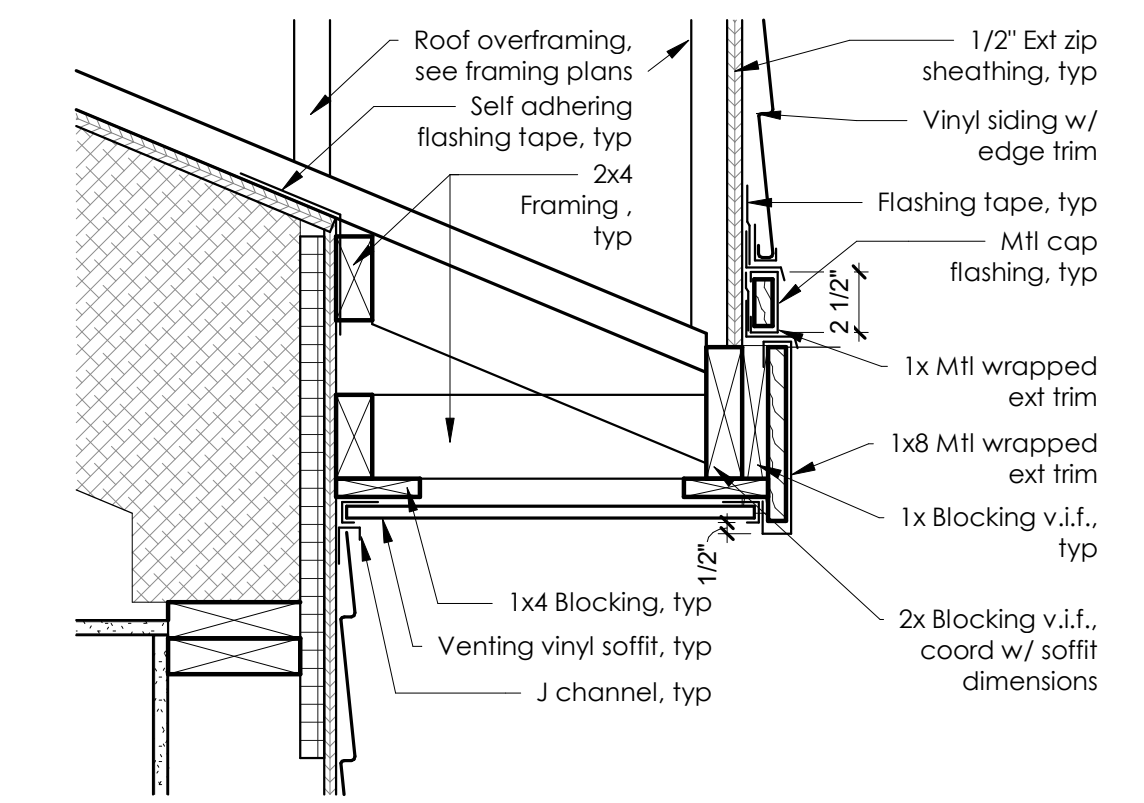
- Provide StegoHome 15mm vapor barrier. Overlap and tape seams per manufacturer's instructions.
- Concrete slab shall be poured directly on vapor retarder/barrier. Do not puncture vapor barrier.
- Vapor retarder/barrier shall be turned up concrete wall and taped/sealed to wall.
- Refer to structural drawings for concrete and reinforcing bar information and specifications.
- If interior (radon mitigation / drain) and exterior perimeter drain assembly are connected, a backwater check valve must be installed.



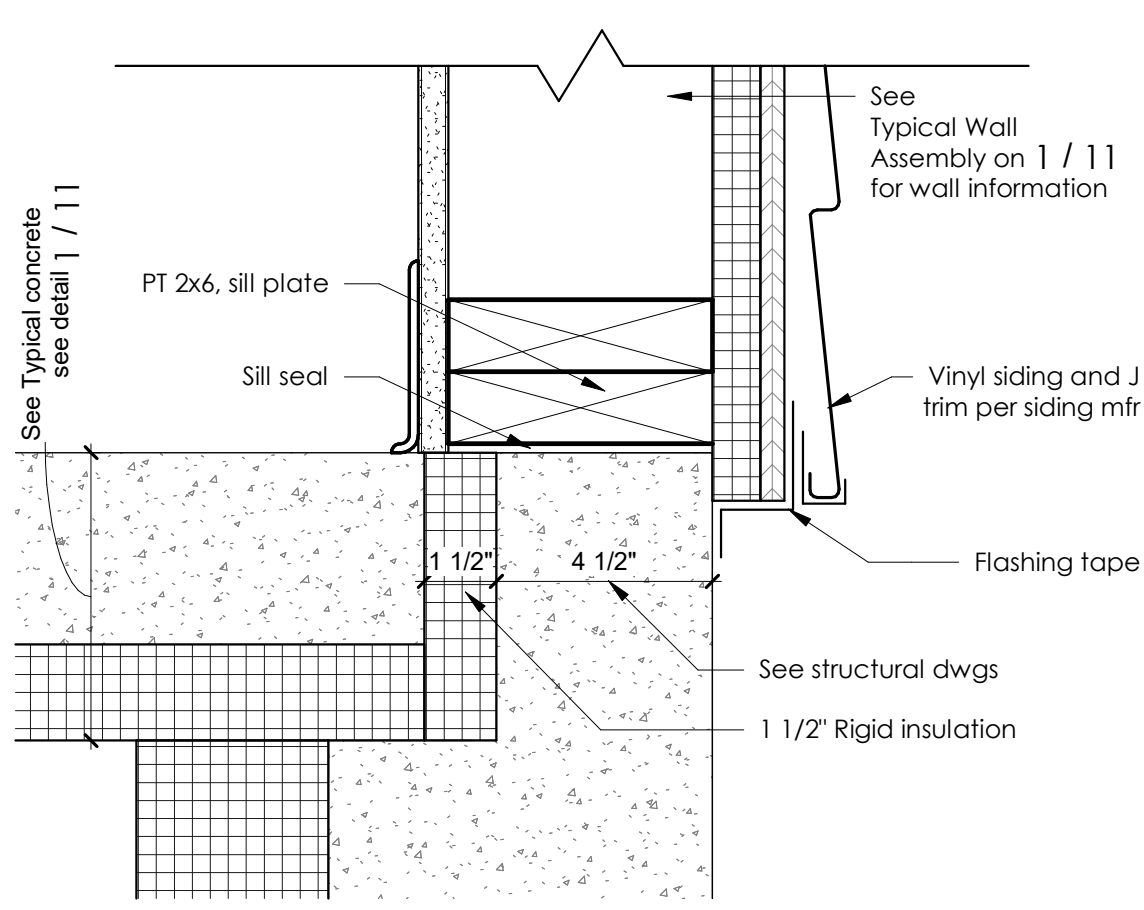
4 Radon/Foundation Drain Detail
 1" = 1'-0"



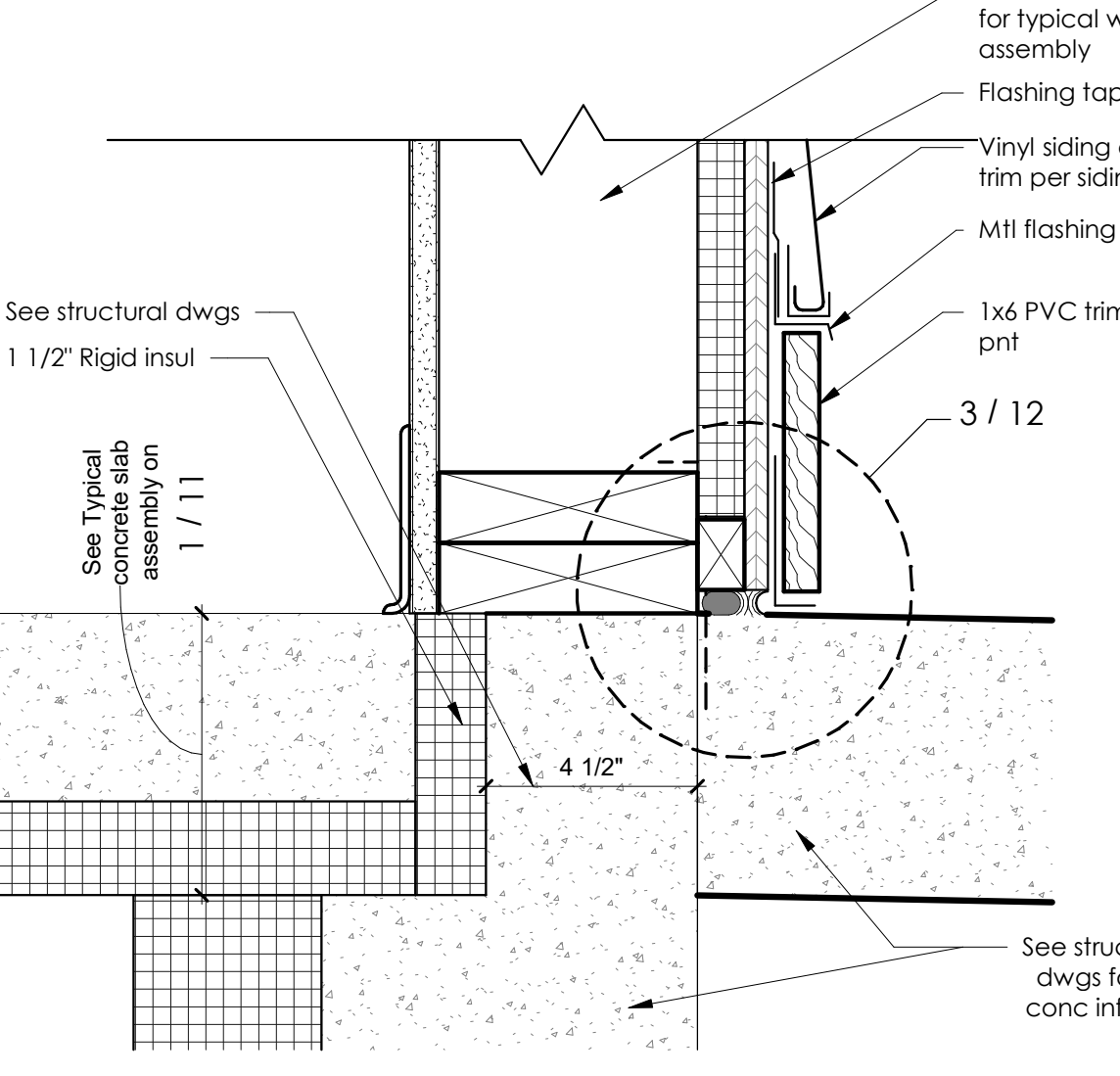
7 Typ Det @ Entry Roof Edge
1 1/2" = 1'-0"



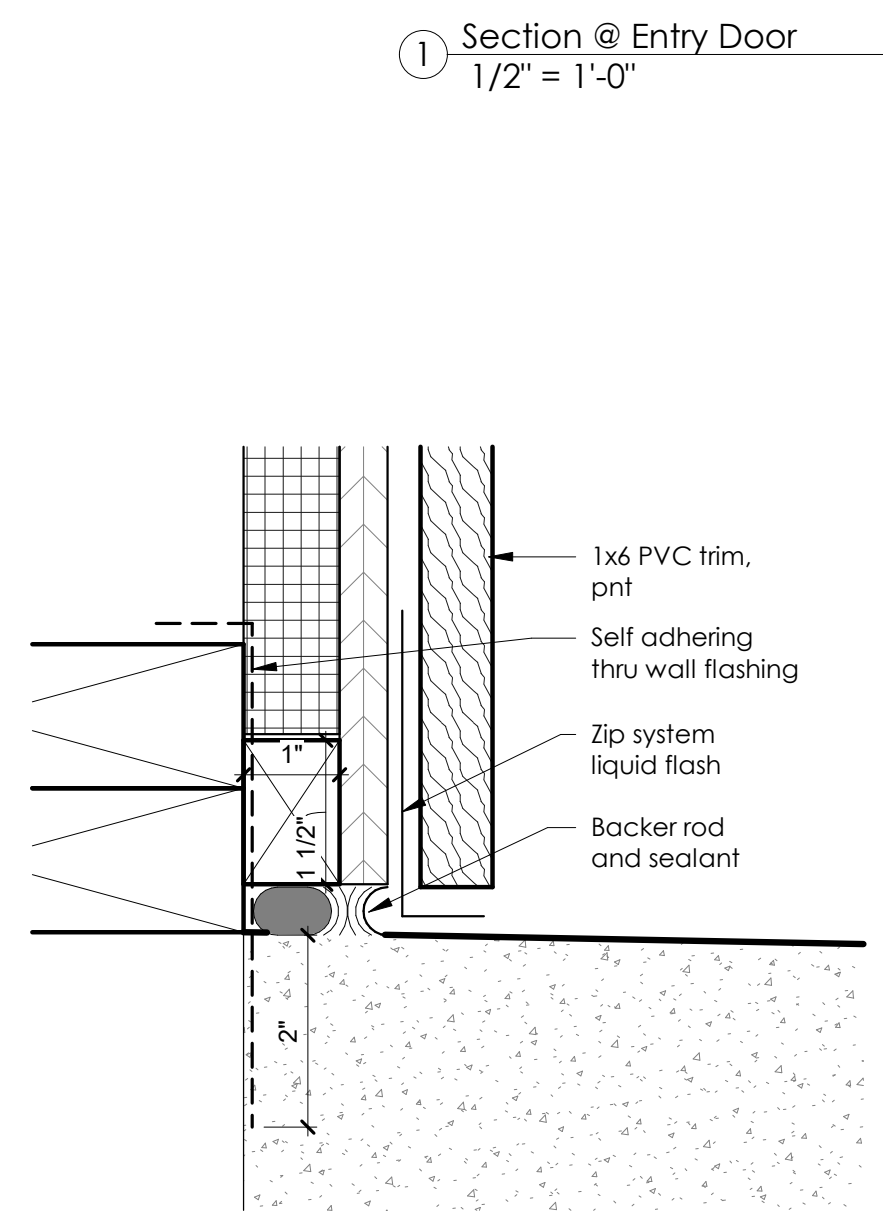
6 Typ Det @ Entrance soffit
1 1/2" = 1'-0"



5 Typical Sill Plate Detail
3" = 1'-0"

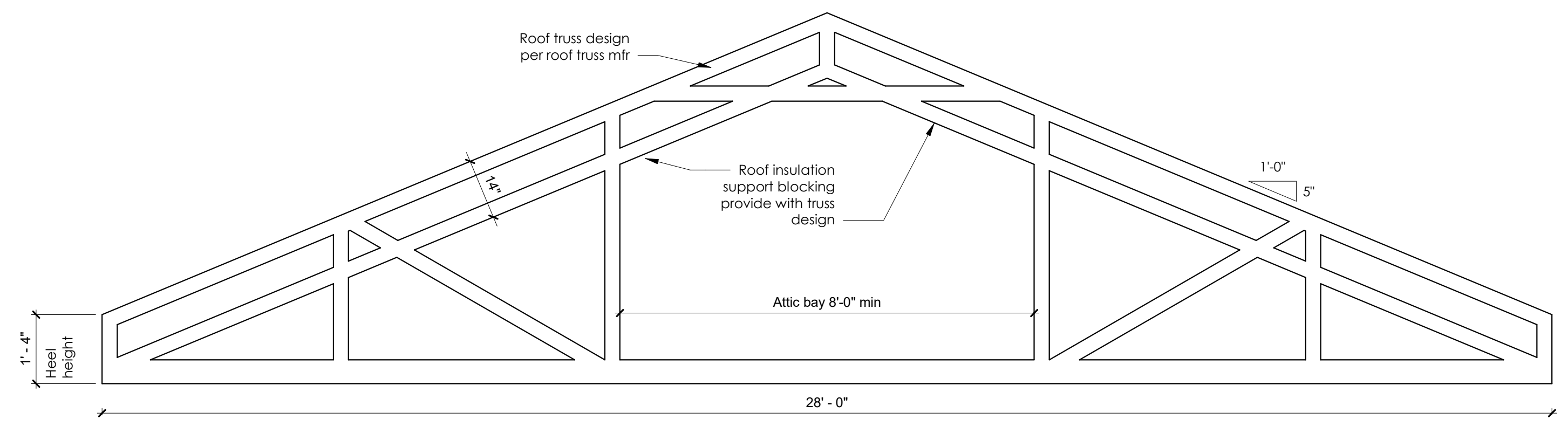
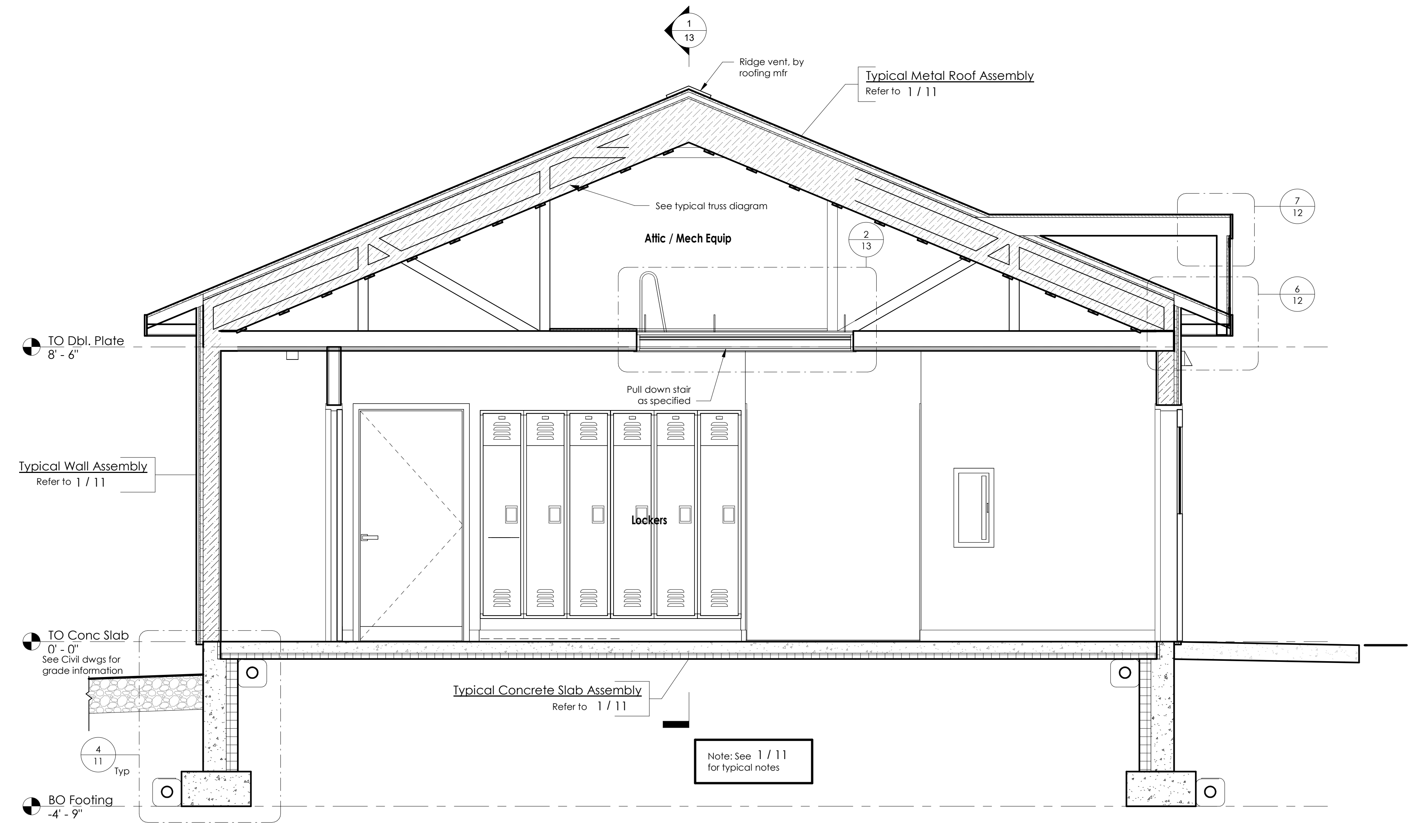


4 Wall to Slab Flashing Det
3" = 1'-0"



3 Wall to Slab Flashing Det Enlarged
6" = 1'-0"

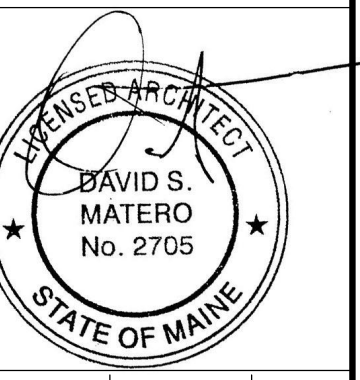
1 Section @ Entry Door
1/2" = 1'-0"



2 Typical Truss Diagram
1/2" = 1'-0"

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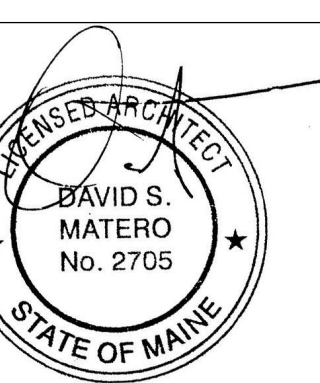


FOR BID	BY	DATE	PE NUMBER	DATE
	DM	OCT. 2025	2705	OCT. 2025

CREW QUARTERS
MEDWAY, MAINE
BUILDING SECTION 2 &
DETAILS

SHEET NUMBER

12

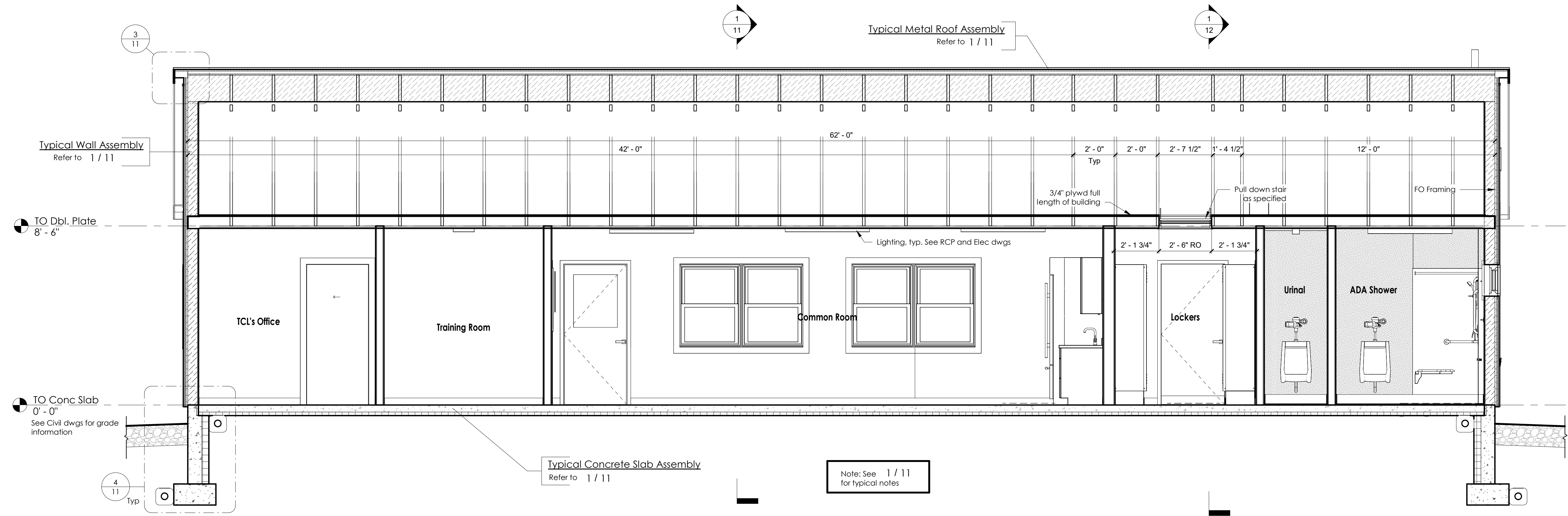


DATE	OCT. 2025
BY	DM
FOR BID	
DATE	OCT. 2025
PE NUMBER	2705

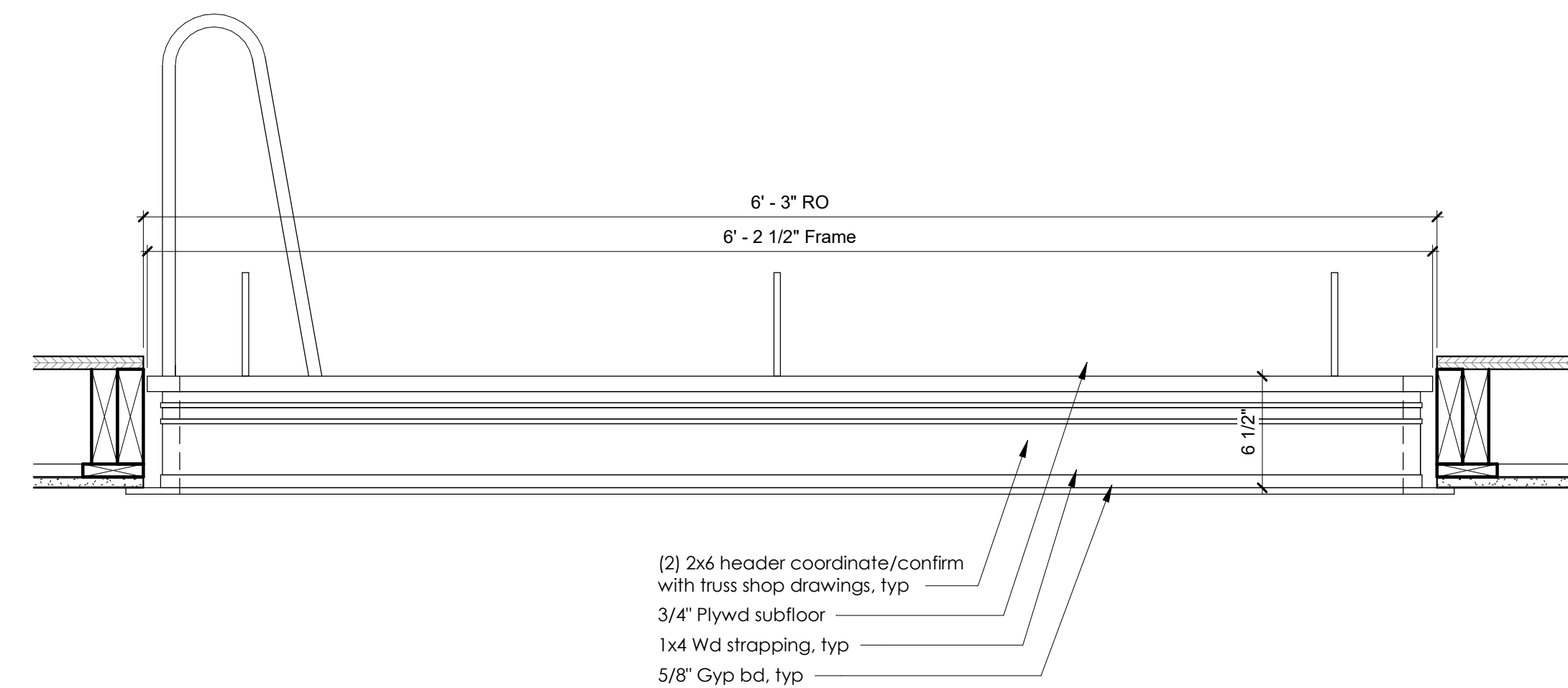
**CREW QUARTERS
 MEDWAY, MAINE
 BUILDING SECTION 3 &
 DETAILS**

SHEET NUMBER

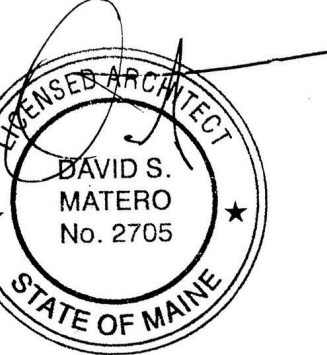
13



① Longitudinal Section
 3/8" = 1'-0"



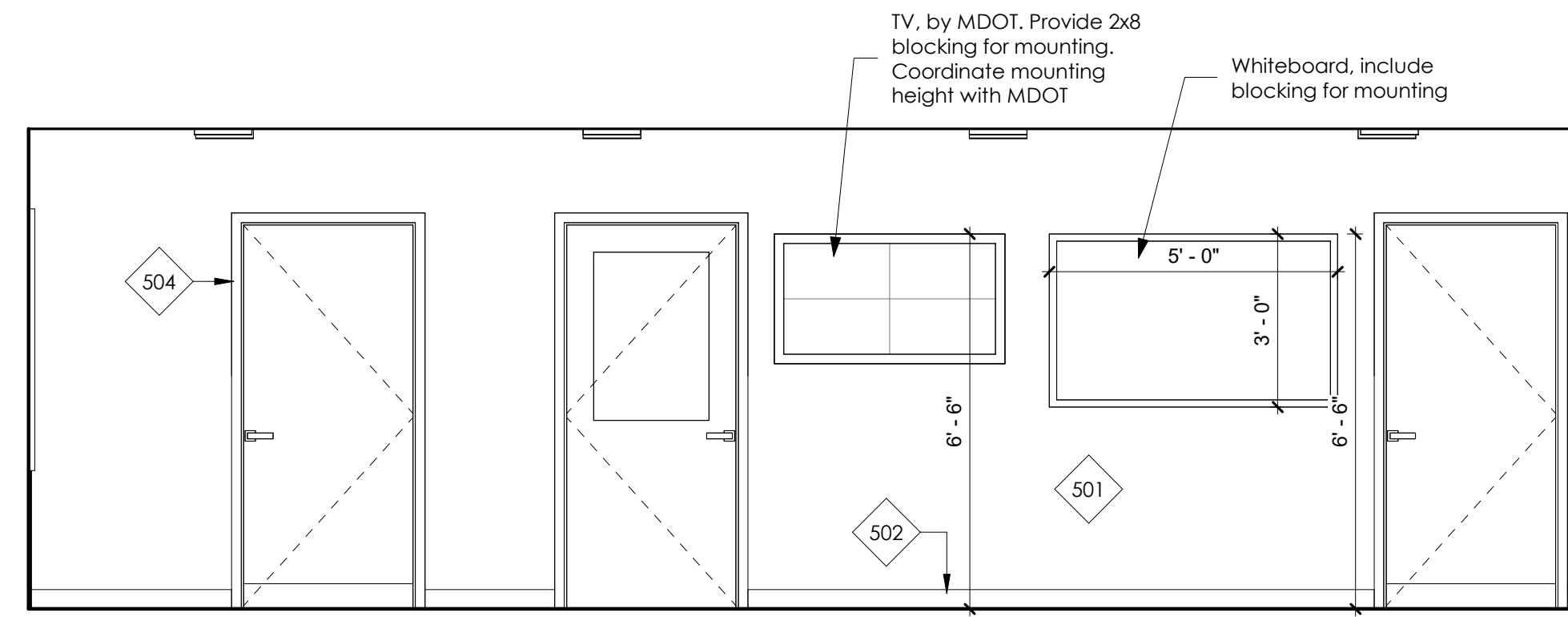
② Section @ Attic Pull Down Stair
 1 1/2" = 1'-0"



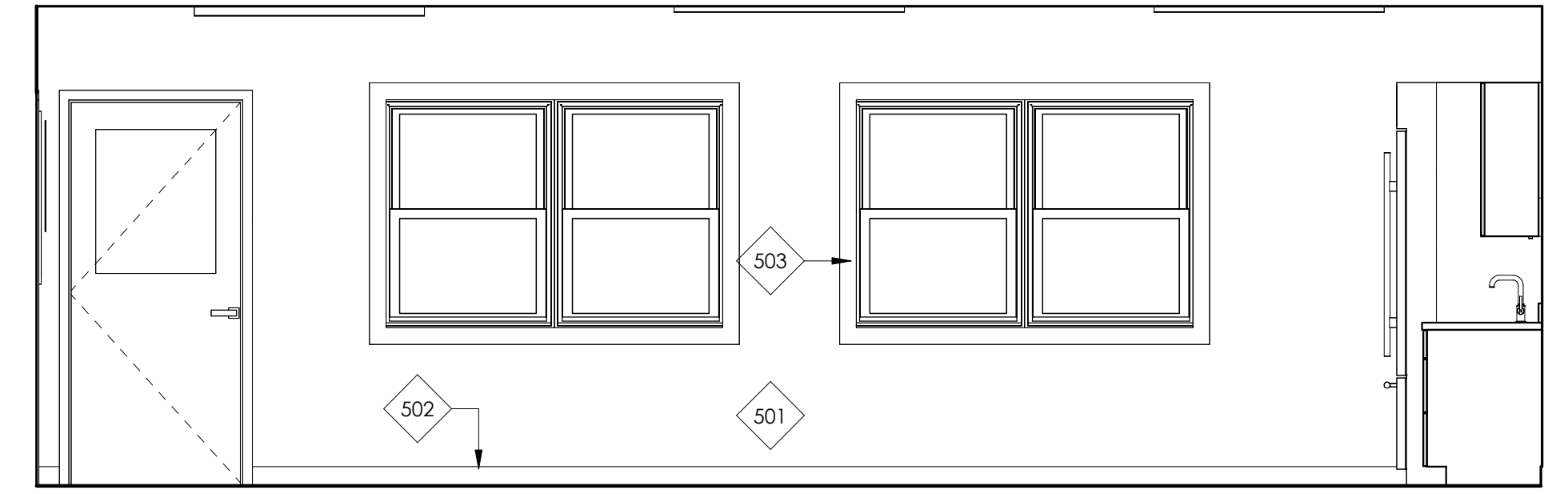
FOR BID	DATE	BY	DATE
	OCT. 2025	DM	OCT. 2025

CREW QUARTERS
 MEDWAY, MAINE
 INTERIOR ELEVATIONS 1

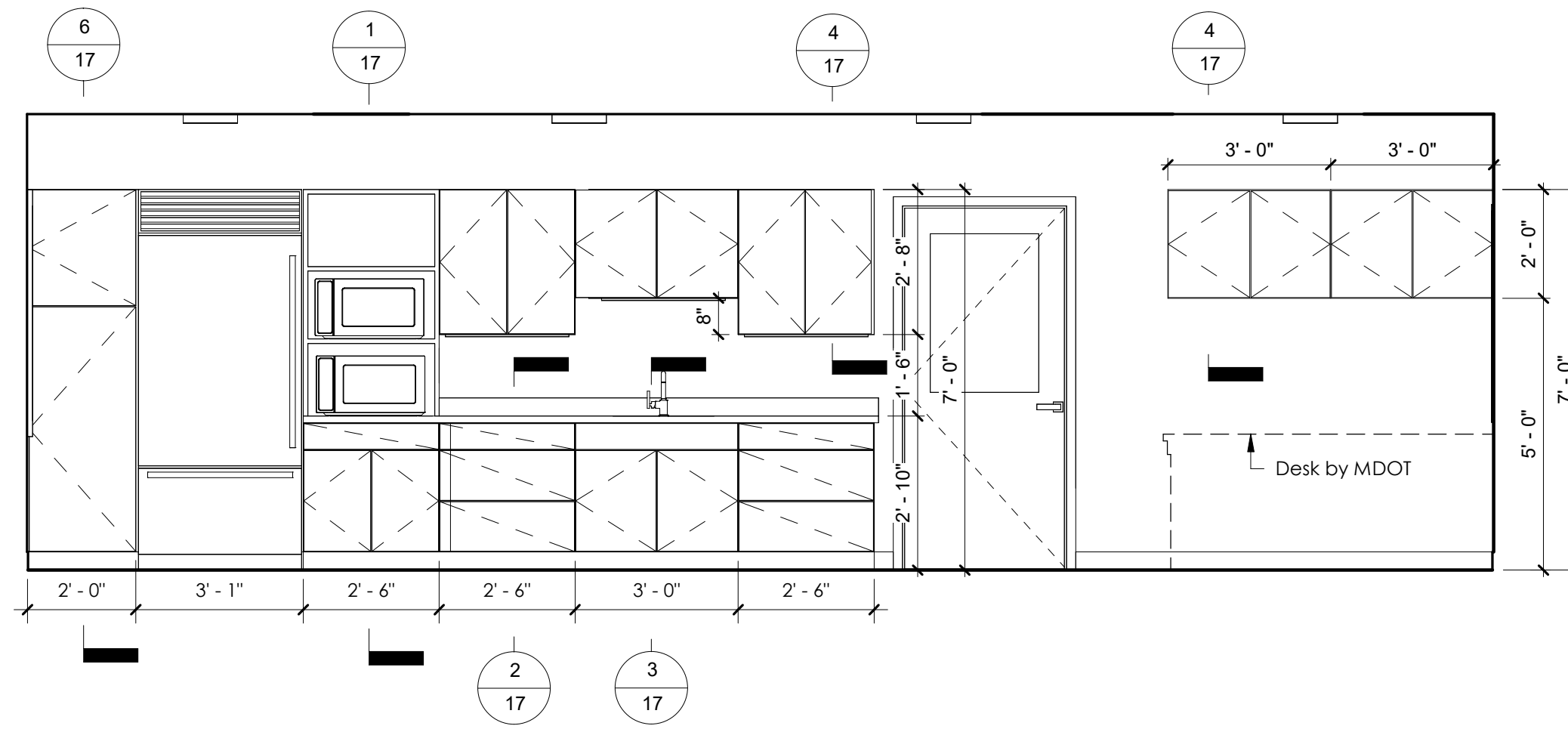
SHEET NUMBER



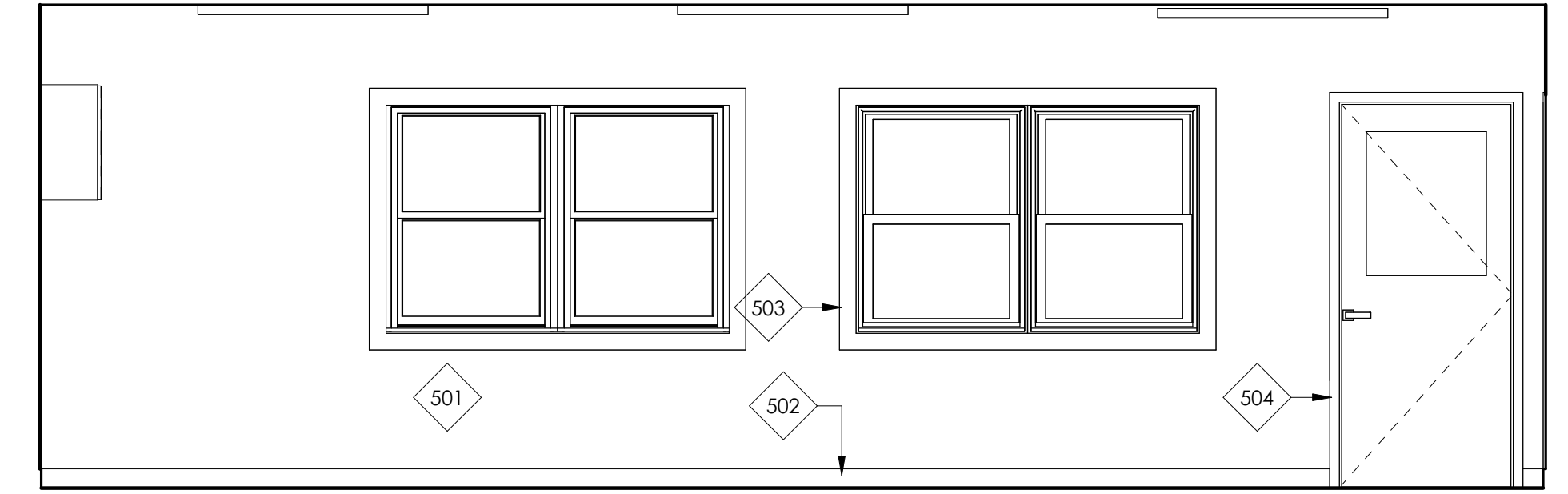
② Common Room
 3/8" = 1'-0"



① Common Room
 3/8" = 1'-0"

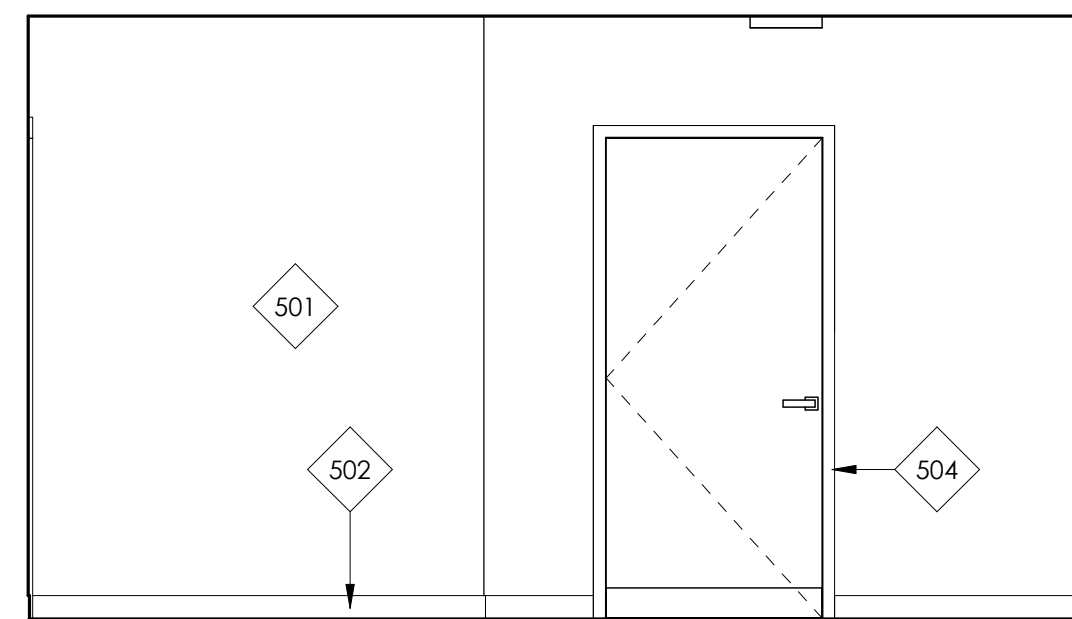


④ Common Room
 3/8" = 1'-0"

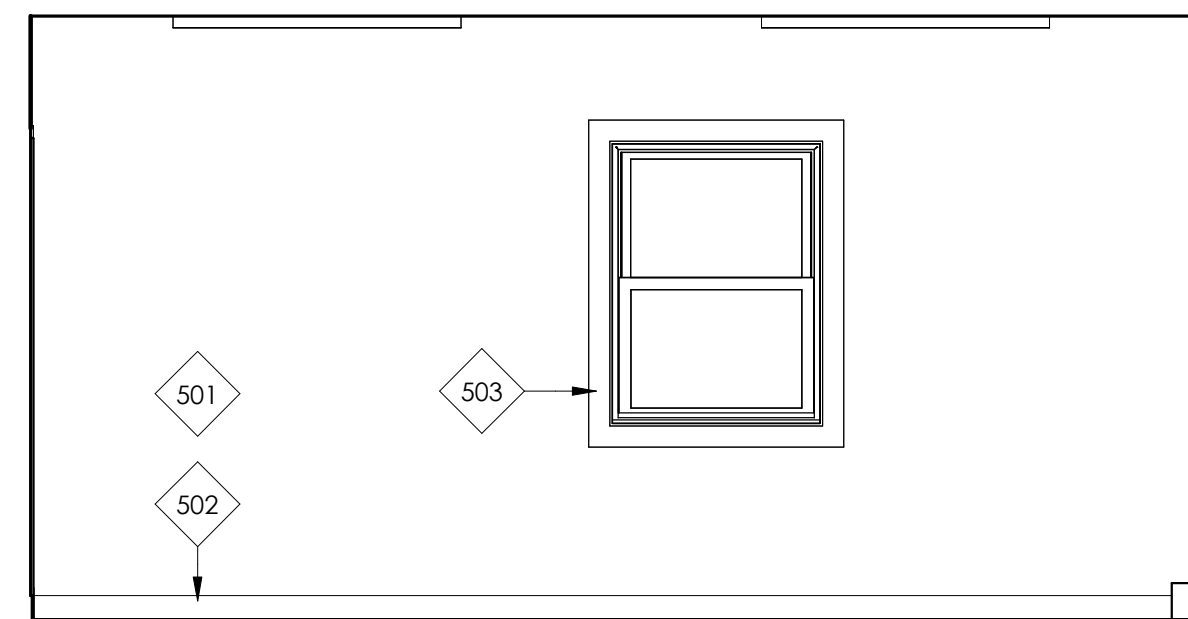


③ Common Room
 3/8" = 1'-0"

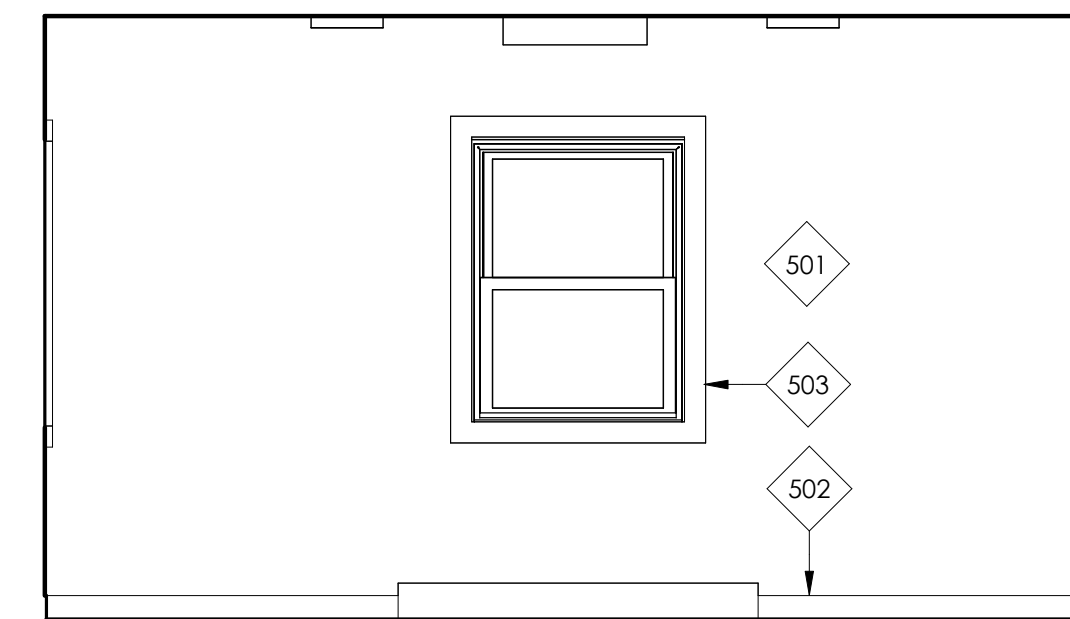
Interior Elevation Key Notes	
501	5/8" Gyp bd, ptd
502	Vinyl base, typ
503	1x4 Maple wood trim, clr finish
504	Hollow metal jamb, pnt
505	FRP Panel see interior elevations for height, see specifications
506	Whiteboard, include blocking for mounting
507	TV, by MDOT. Provide 2x8 blocking for mounting. Coordinate mounting height with MDOT
508	1x4 Wd trim, pnt
509	Mirror, as specified. Provide 2x8 blocking at top and bottom of mirror. Coordinate height w/ approved submittal.
510	Light fixture, see electrical dwgs
512	Tile Base, see finish schedule
513	See typical truss diagram
514	CMU locker base, pnt. Color to match locker color
515	2x8 Blocking, typ
516	3/4"Th x 8'H plywd mounting panel, installed over gyp bd finish, along the length of wall, pnt black
517	15"W x 18"D x 72" (6'-0")H Metal locker, typ
518	Fire extinguisher cabinet, as specified. Fire extinguisher by MDOT



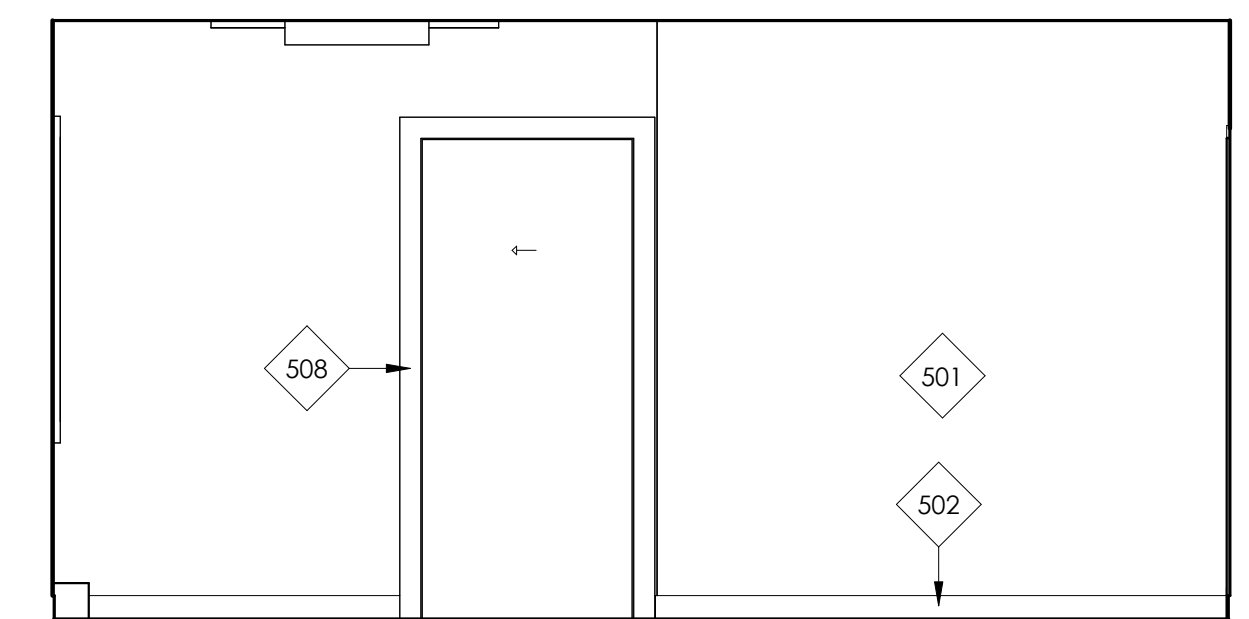
⑧ TCL 04
 3/8" = 1'-0"



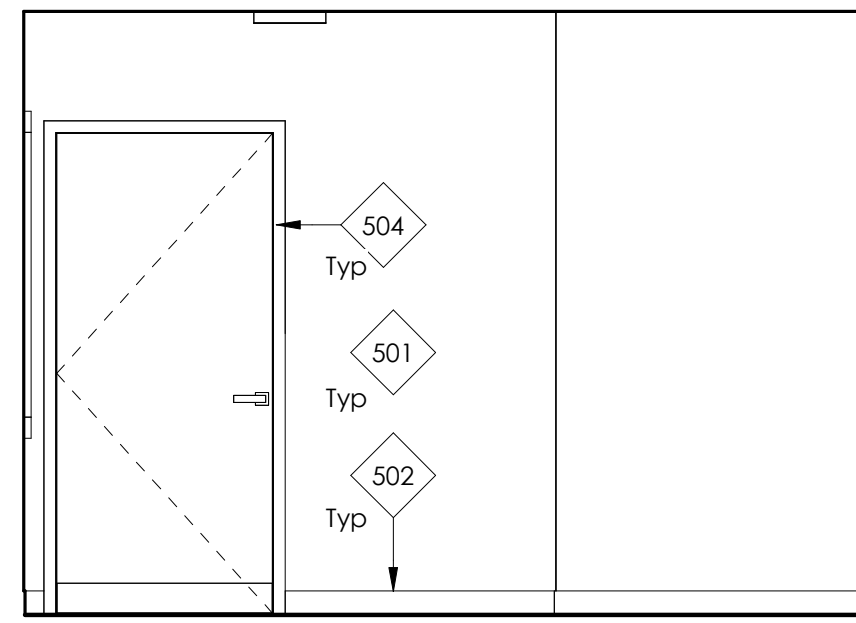
⑦ TCL 03
 3/8" = 1'-0"



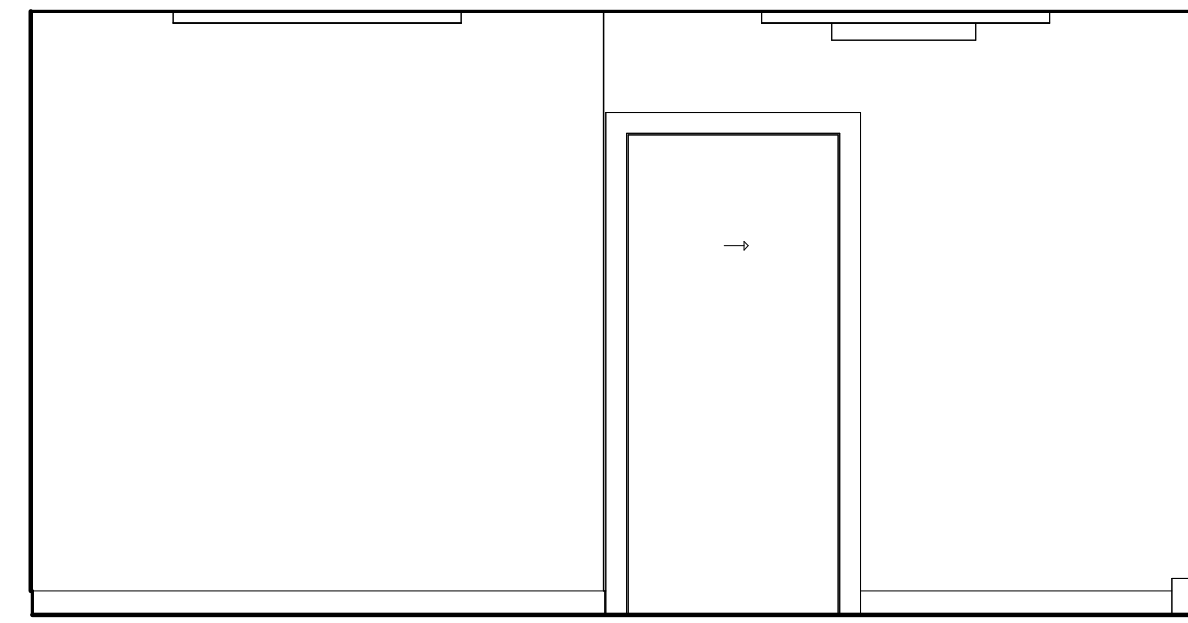
⑥ TCL 02
 3/8" = 1'-0"



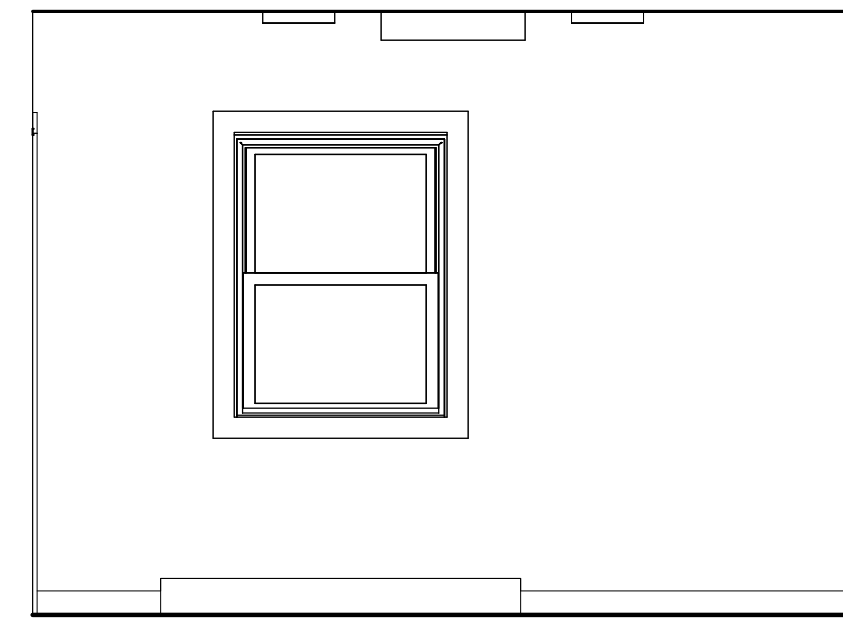
⑤ TCL 01
 3/8" = 1'-0"



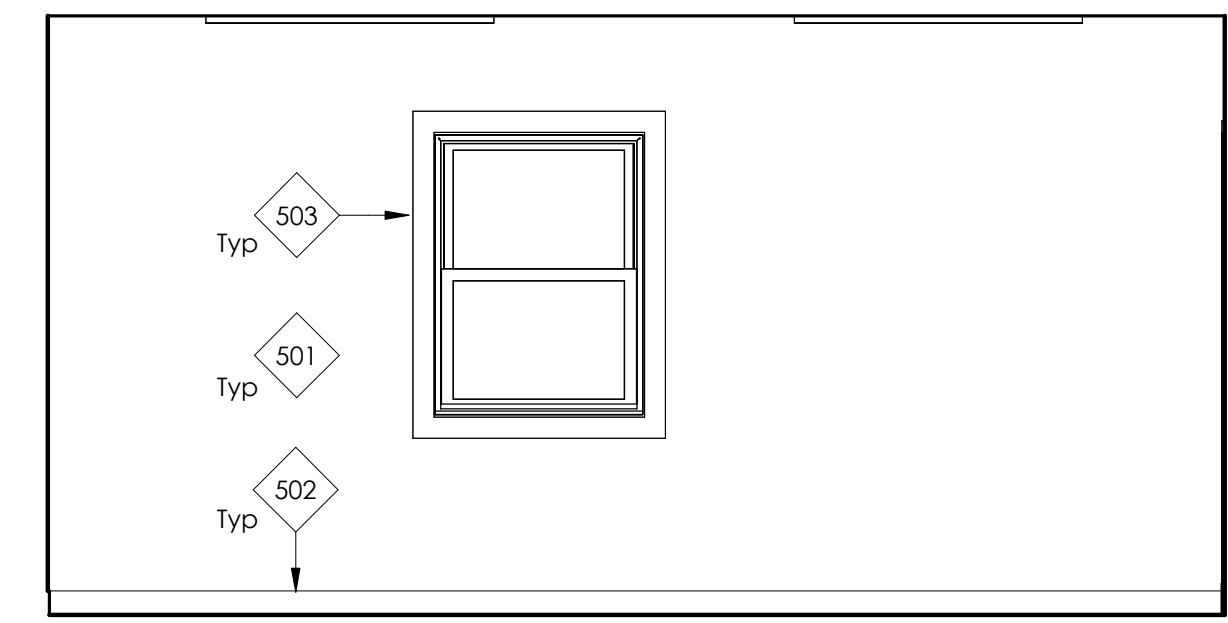
8 TCS 04
3/8" = 1'-0"



7 TCS 03
3/8" = 1'-0"

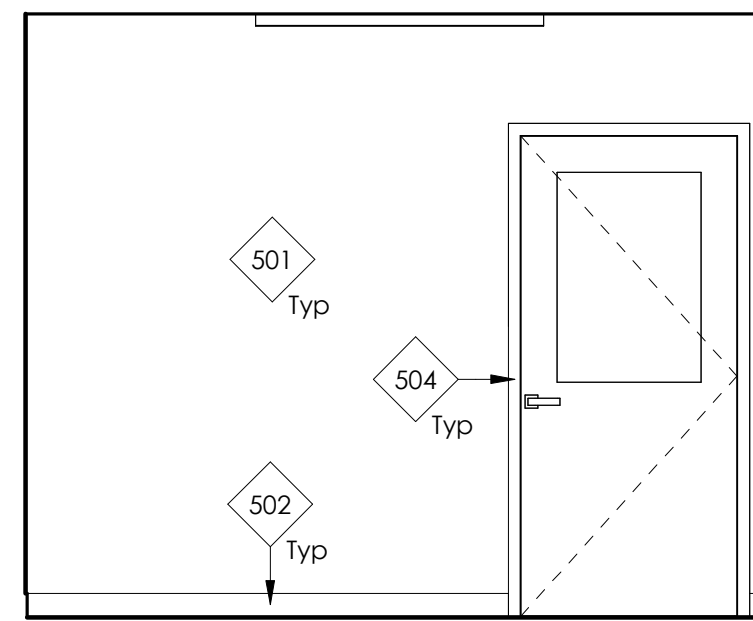


6 TCS 02
3/8" = 1'-0"

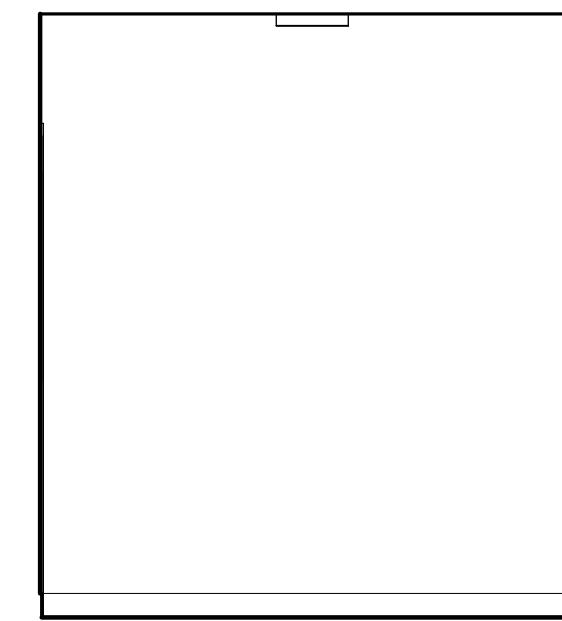


5 TCS 01
3/8" = 1'-0"

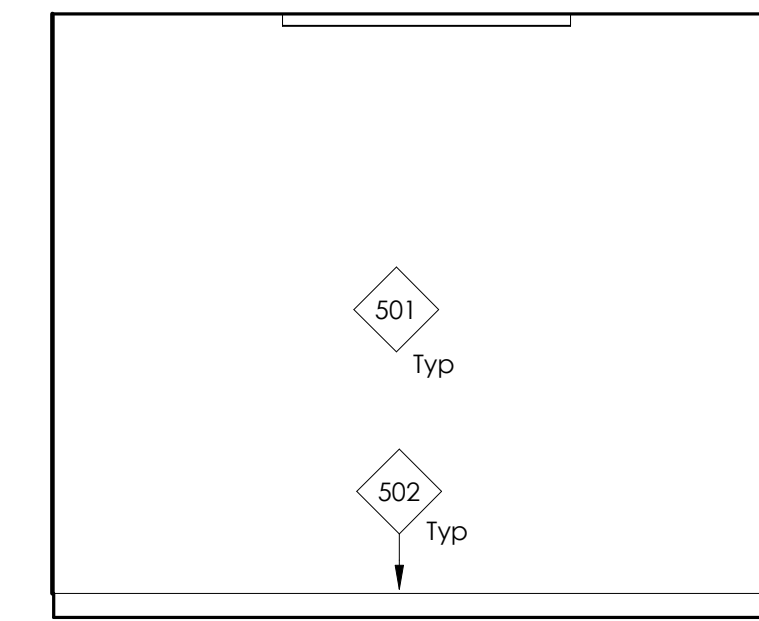
Interior Elevation Key Notes	
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517	15"W x 18"D x 72" (6'-0")H Metal locker, typ
518	Fire extinguisher cabinet, as specified. Fire extinguisher by MDOT



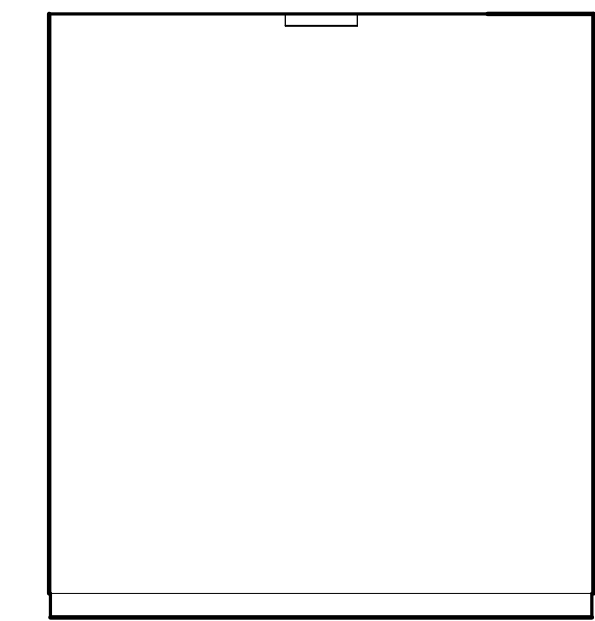
12 Training Room
3/8" = 1'-0"



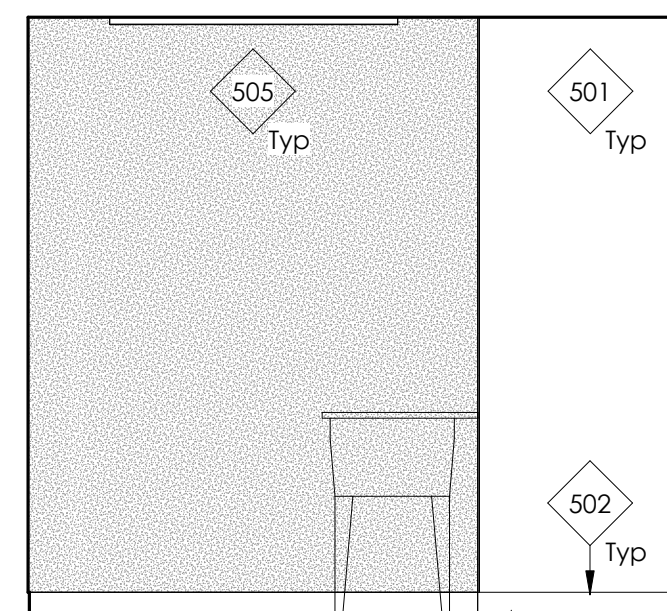
11 Training Room
3/8" = 1'-0"



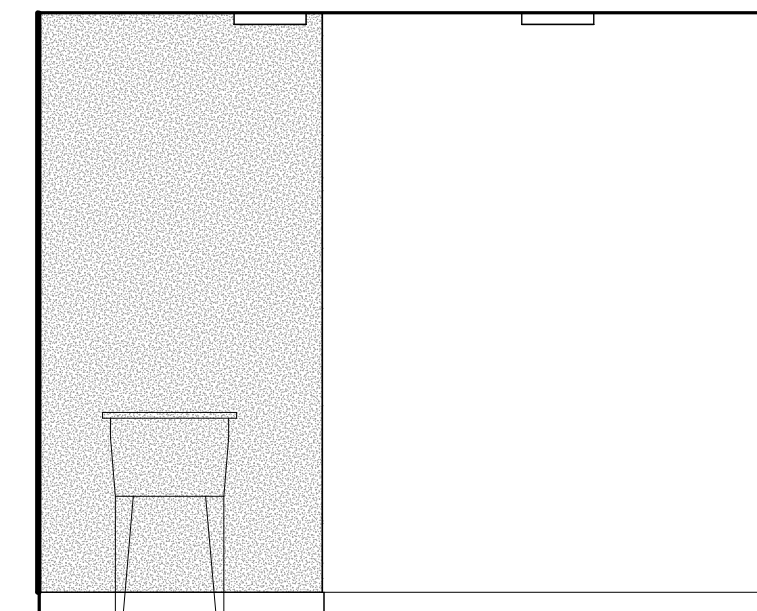
10 Training Room
3/8" = 1'-0"



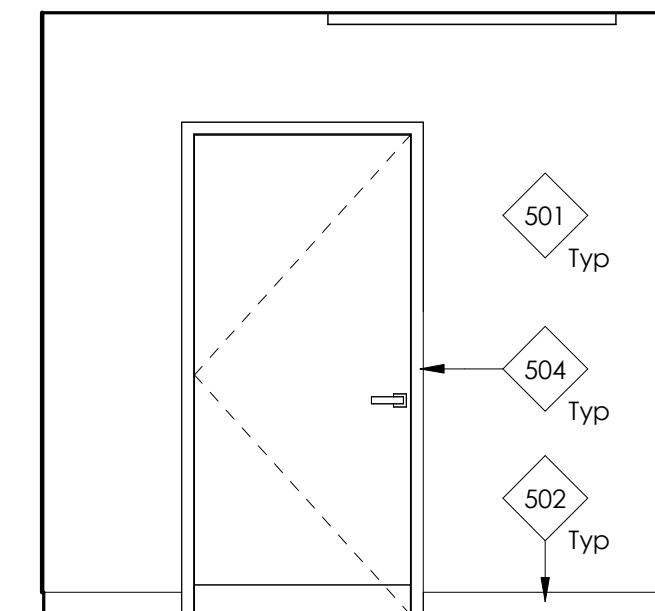
9 Training Room
3/8" = 1'-0"



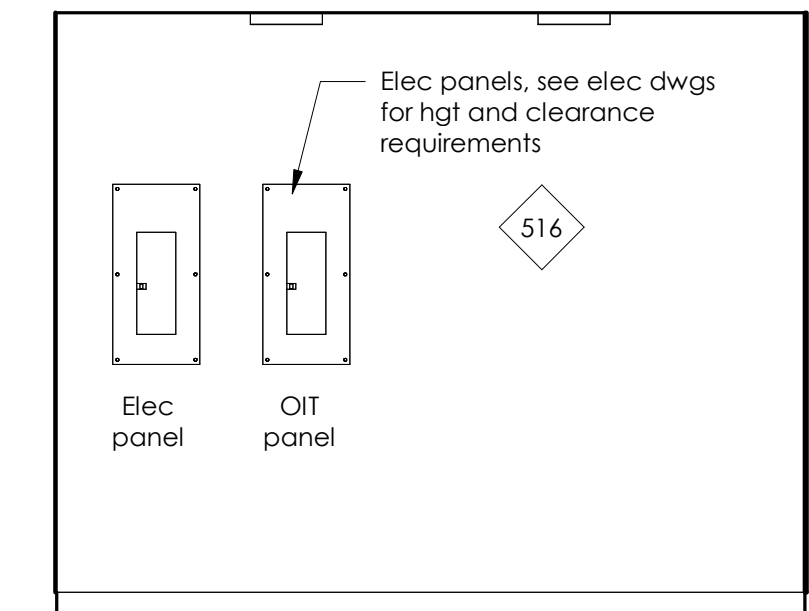
16 Mech/Utility
3/8" = 1'-0"



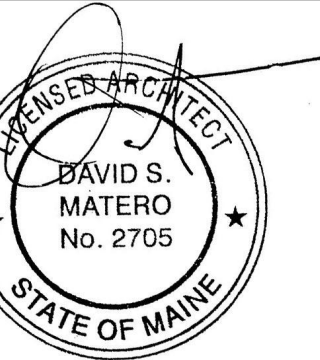
15 Mech/Utility
3/8" = 1'-0"



14 Mech/Utility
3/8" = 1'-0"



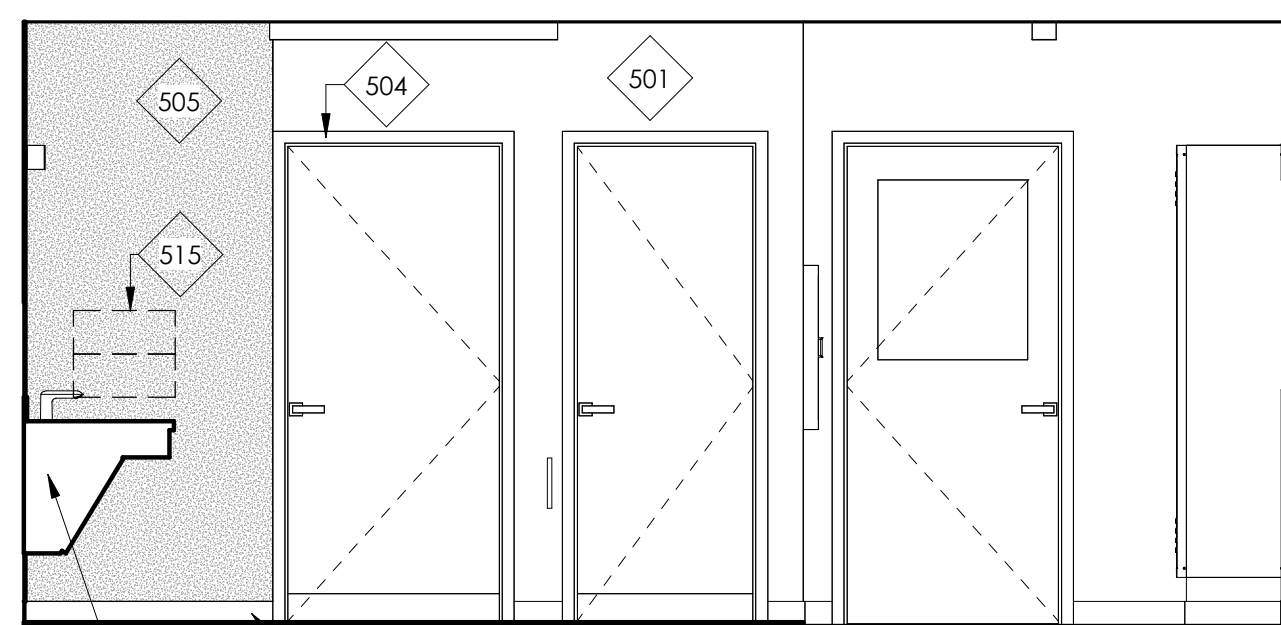
13 Mech/Utility
3/8" = 1'-0"



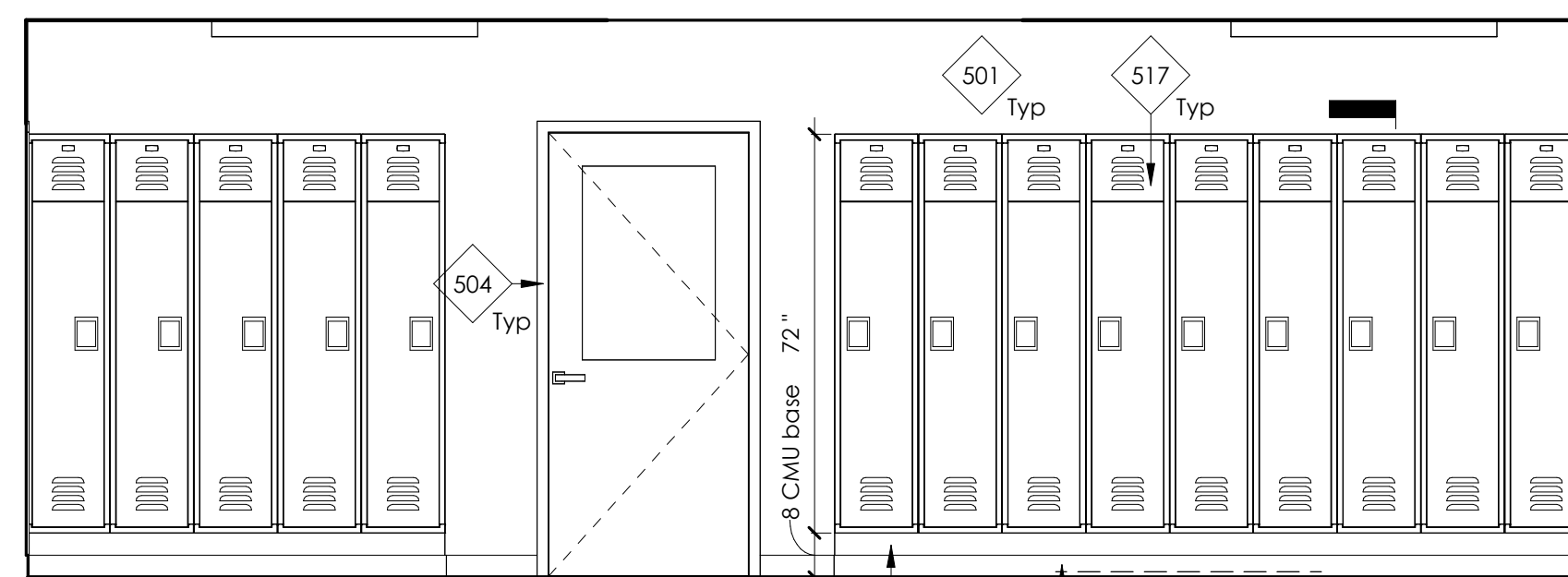
FOR BID	BY	DATE	PE NUMBER	DATE
	DM	OCT. 2025	2705	OCT. 2025

Interior Elevation Key Notes

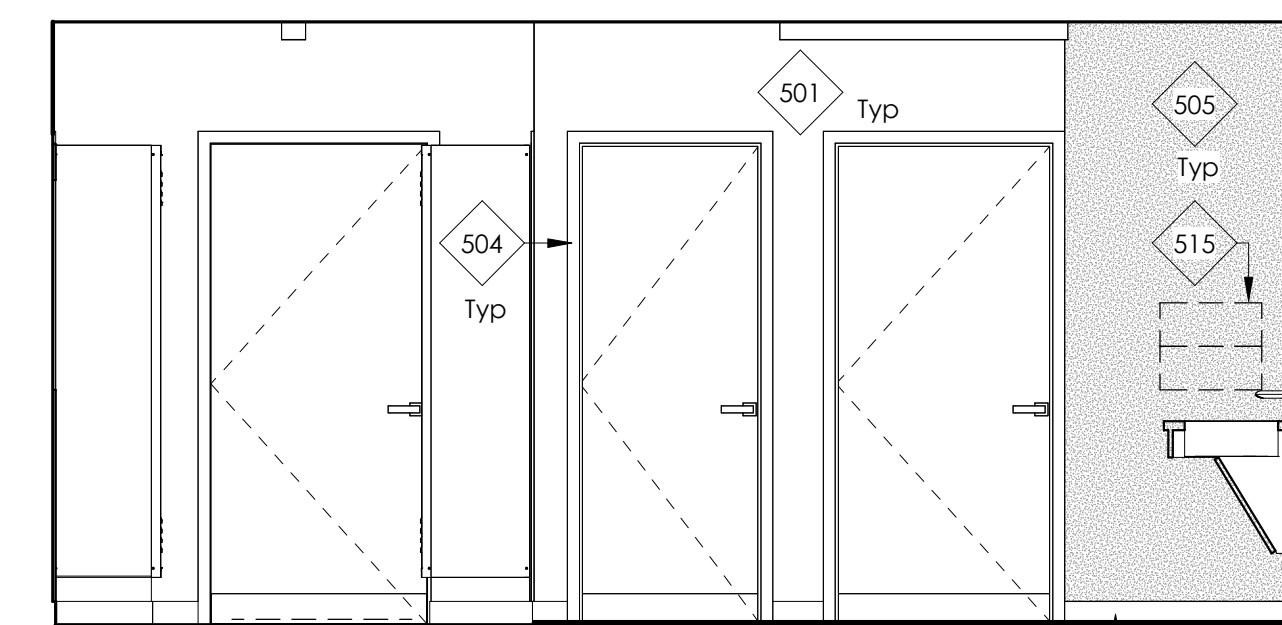
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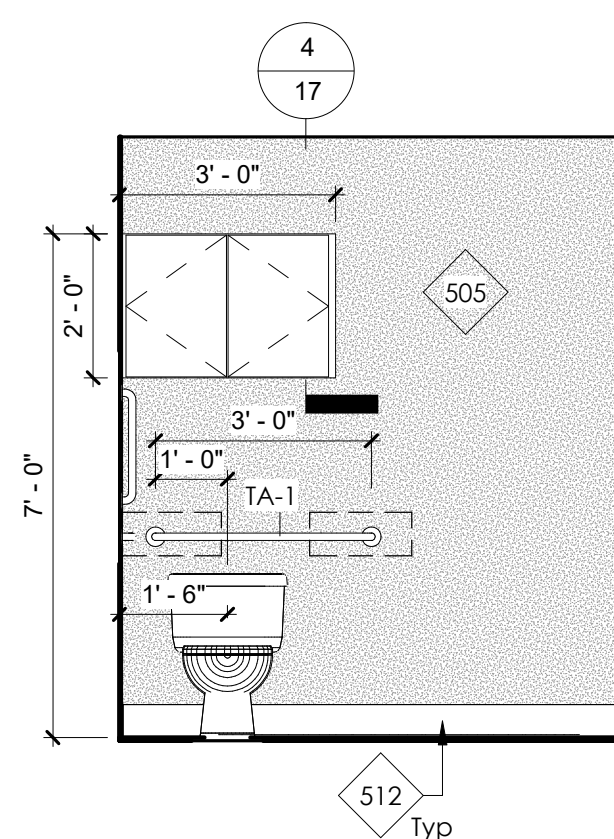
③ Lockers
3/8" = 1'-0"



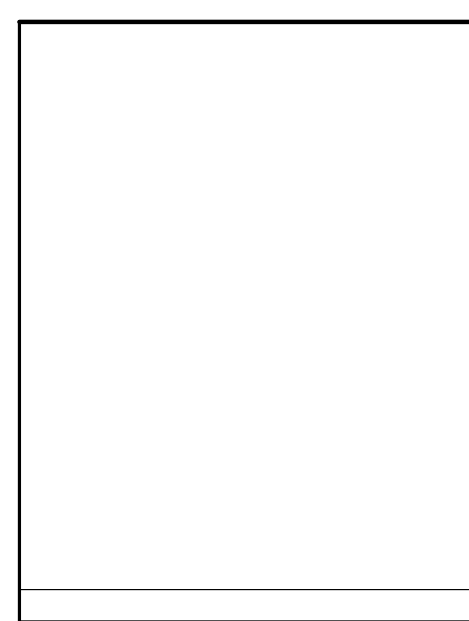
② Lockers
3/8" = 1'-0"



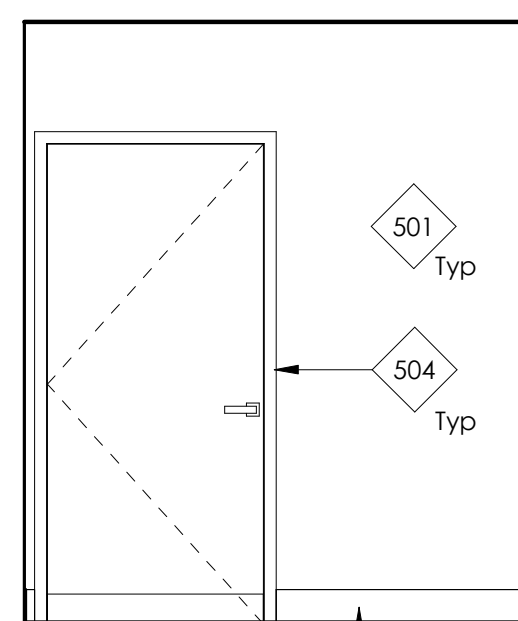
① Lockers
3/8" = 1'-0"



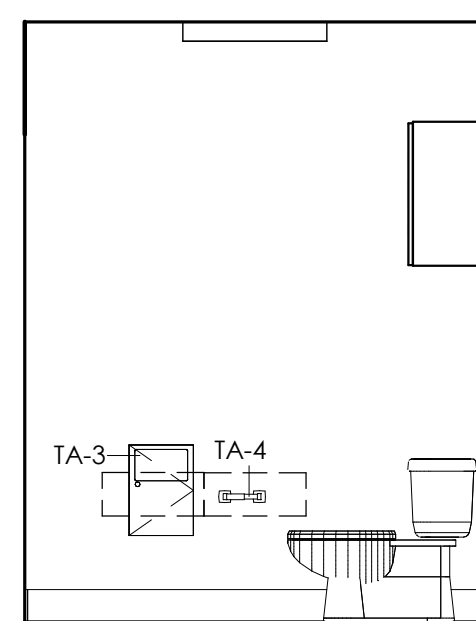
⑪ ADA Toilet
3/8" = 1'-0"



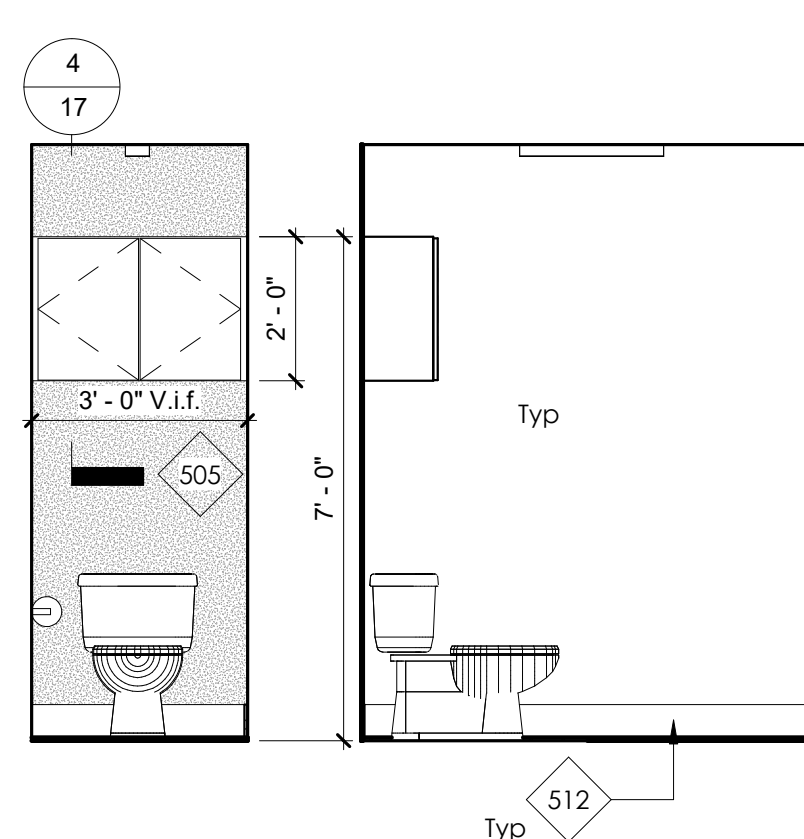
⑩ ADA Toilet
3/8" = 1'-0"



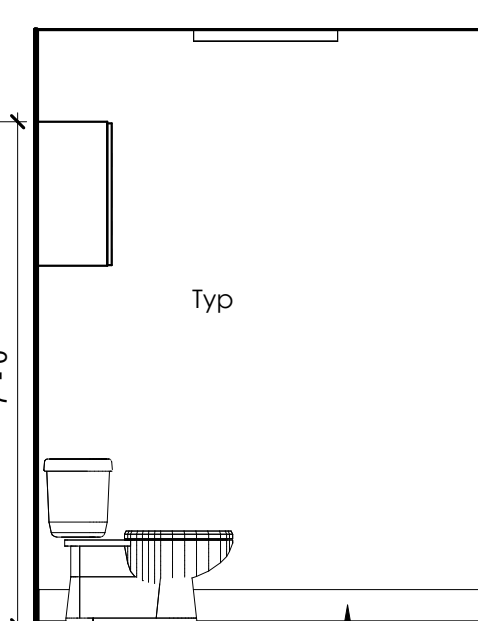
⑨ ADA Toilet
3/8" = 1'-0"



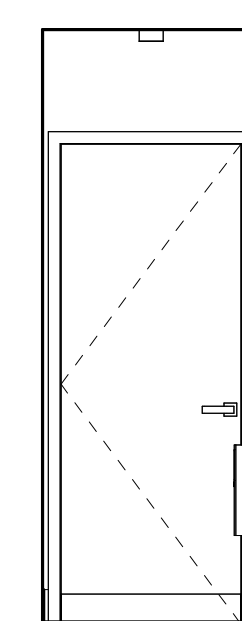
⑧ Toilet
3/8" = 1'-0"



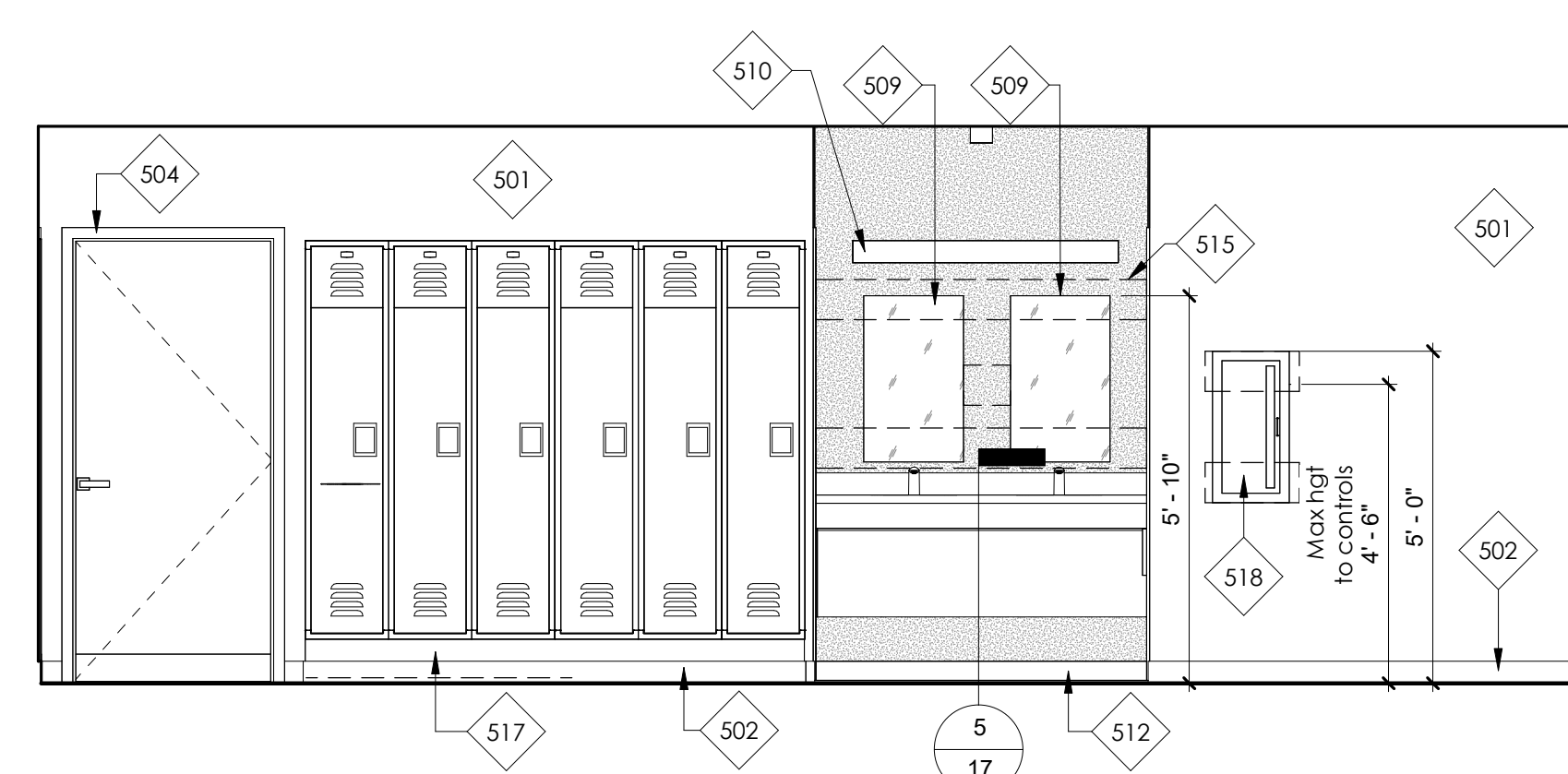
⑦ Toilet
3/8" = 1'-0"



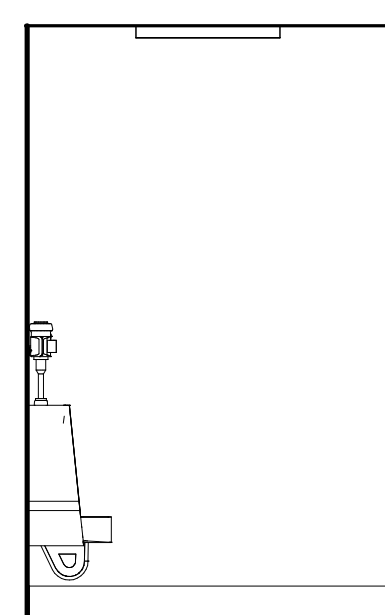
⑥ Toilet
3/8" = 1'-0"



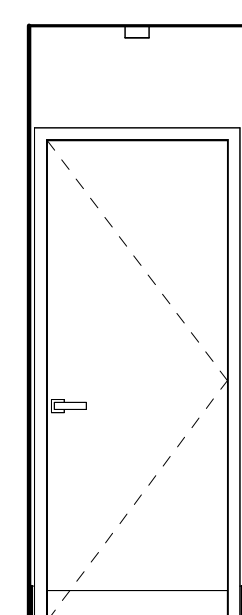
⑤ Toilet
3/8" = 1'-0"



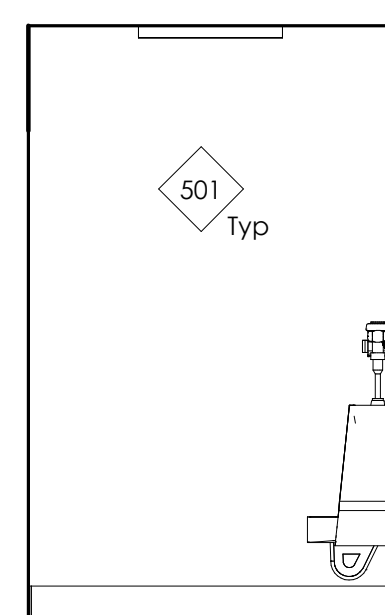
④ Lockers
3/8" = 1'-0"



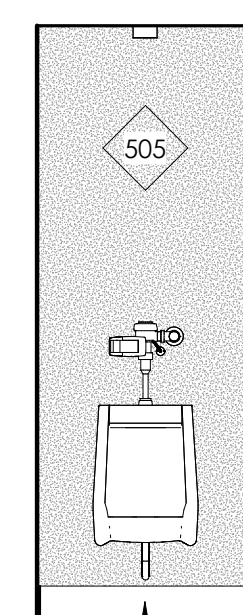
⑳ Urinal
3/8" = 1'-0"



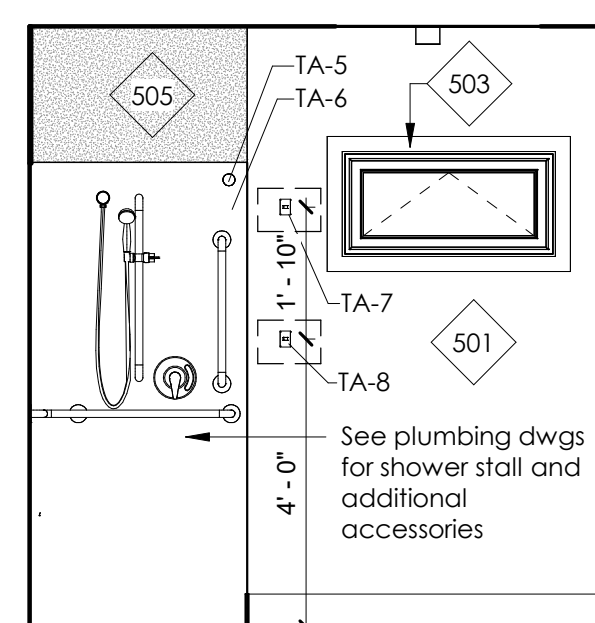
⑲ Urinal
3/8" = 1'-0"



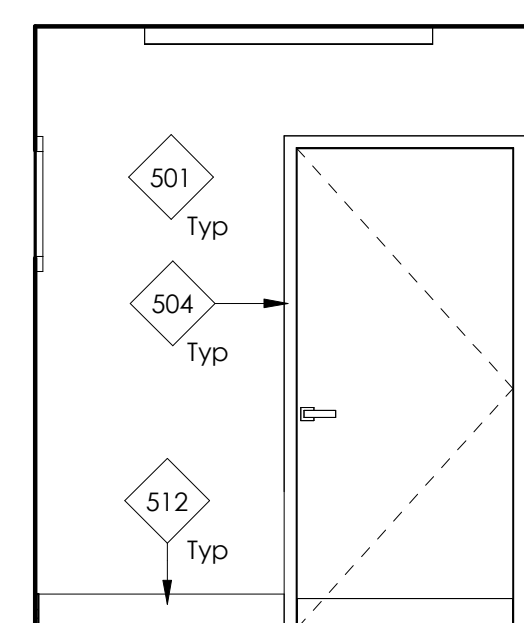
⑱ Urinal
3/8" = 1'-0"



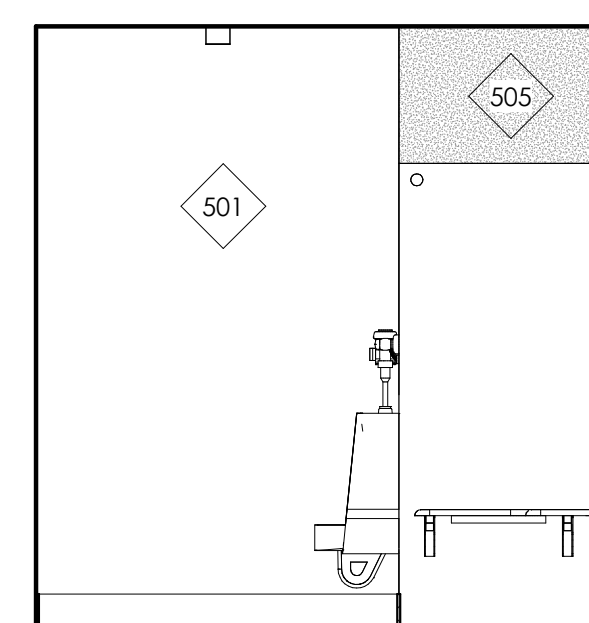
⑰ Urinal
3/8" = 1'-0"



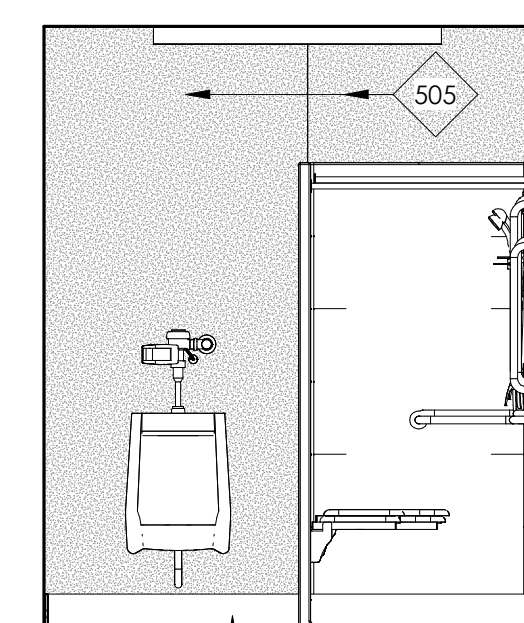
⑯ ADA Shower
3/8" = 1'-0"



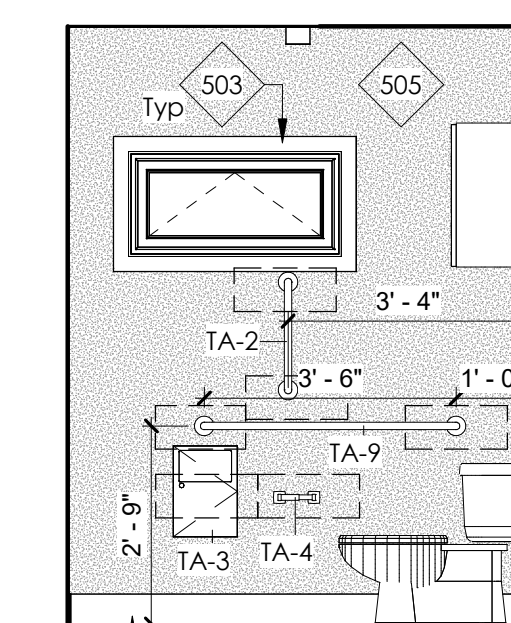
⑮ ADA Shower
3/8" = 1'-0"



⑭ ADA Shower
3/8" = 1'-0"



⑬ ADA Shower
3/8" = 1'-0"



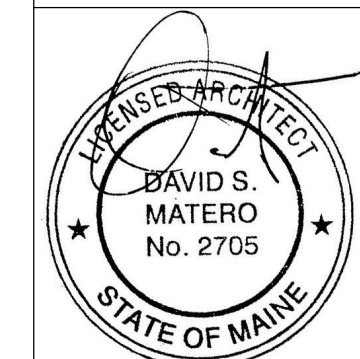
⑫ ADA Toilet
3/8" = 1'-0"

**CREW QUARTERS
MEDWAY, MAINE
INTERIOR ELEVATIONS 3**

SHEET NUMBER

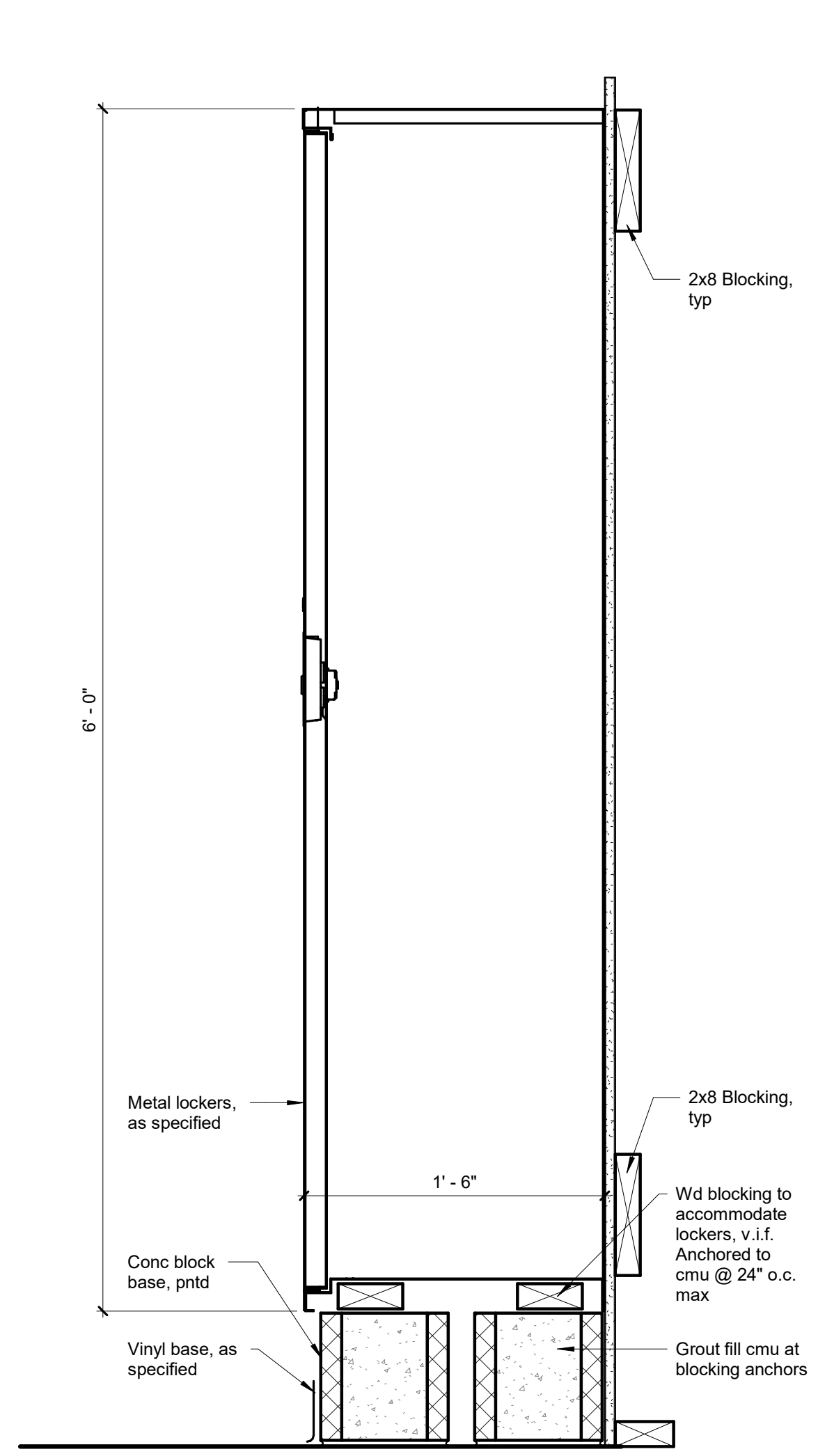
16

David Matero
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49 Centre Street
Bath, ME 04530
207.389.4278
info@davidmatero.com

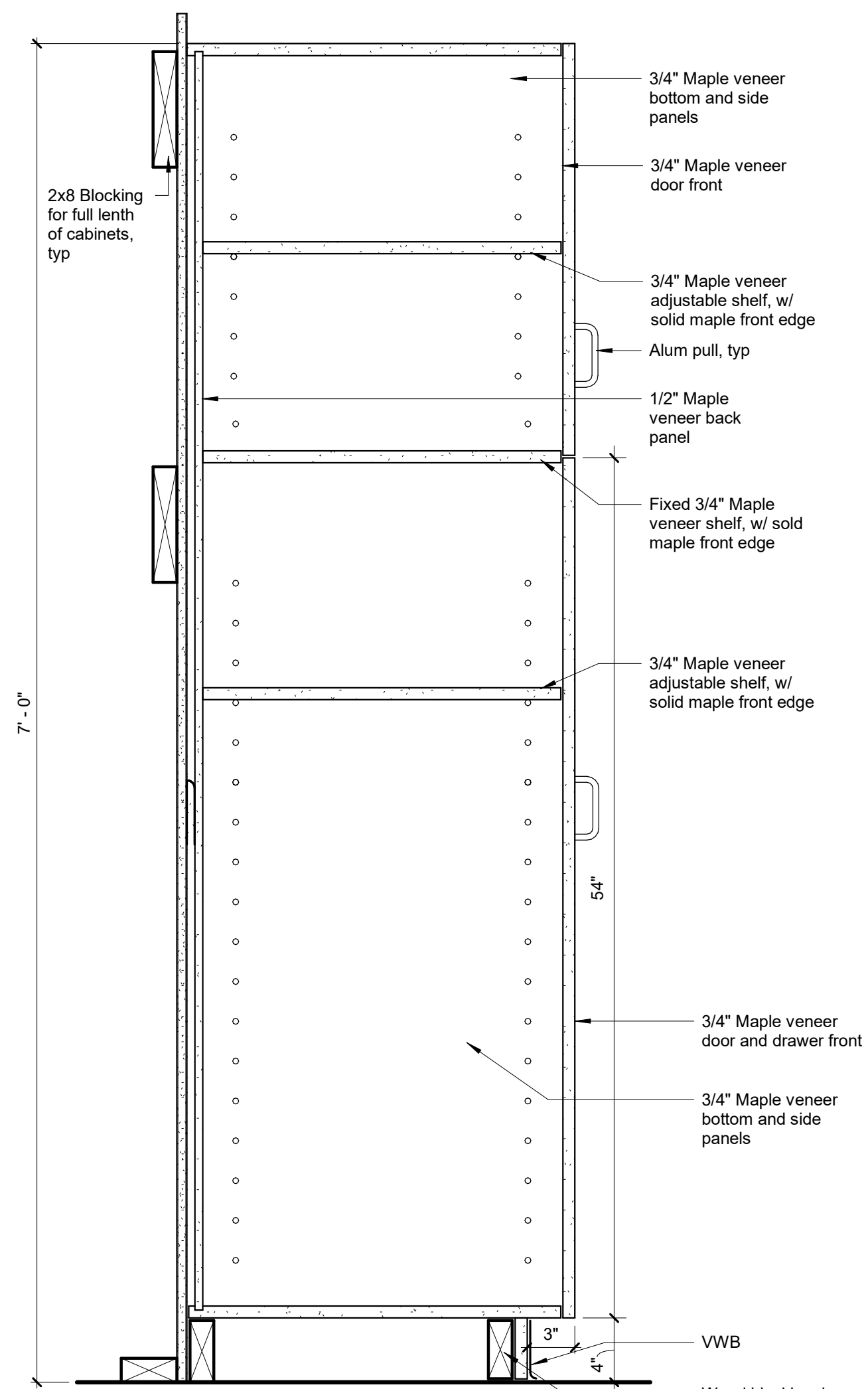


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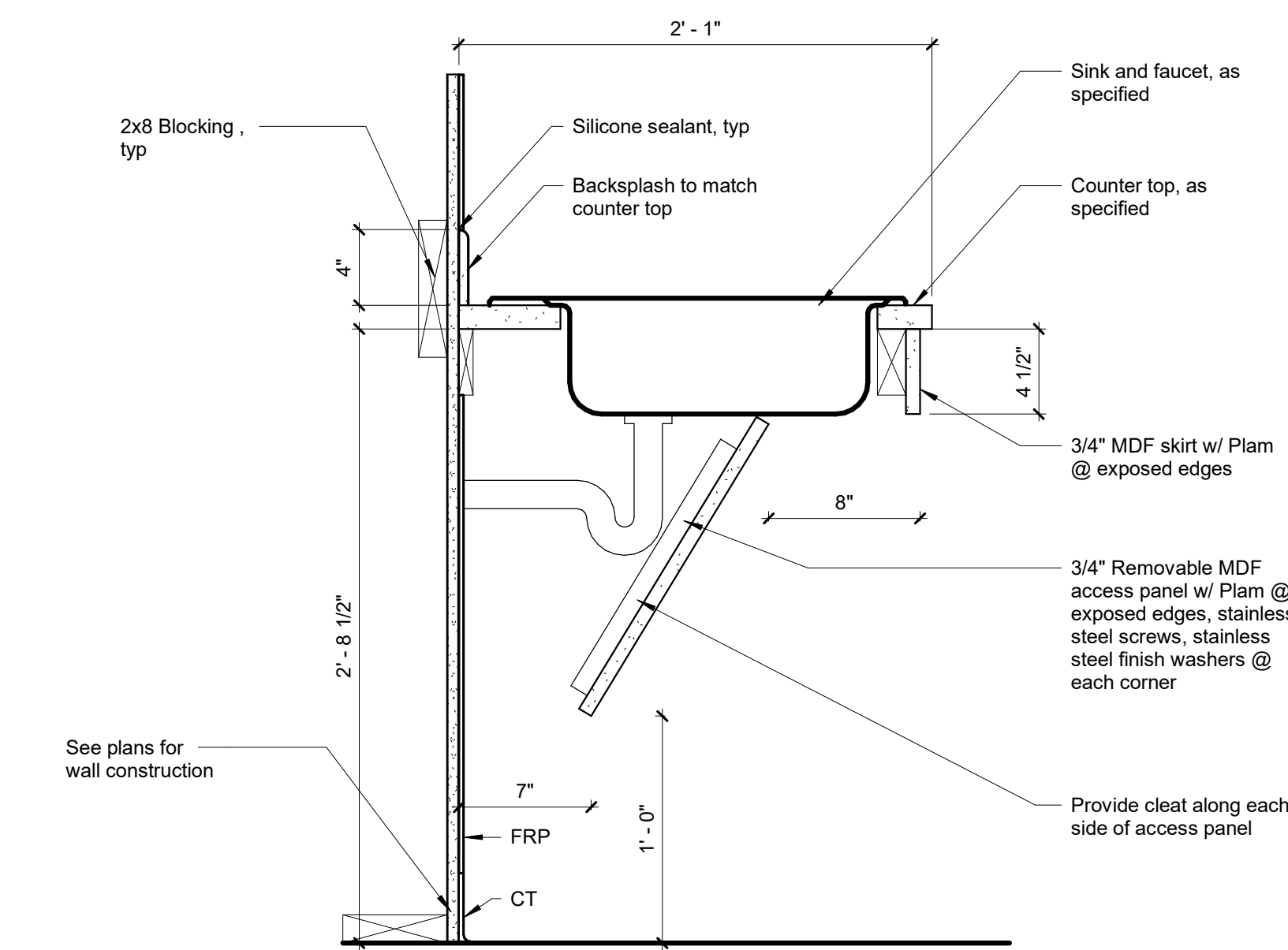
STATE OF MAINE DOT
CREW QUARTERS MEDWAY, MAINE
MEDWAY, MAINE
WIN 030331.00



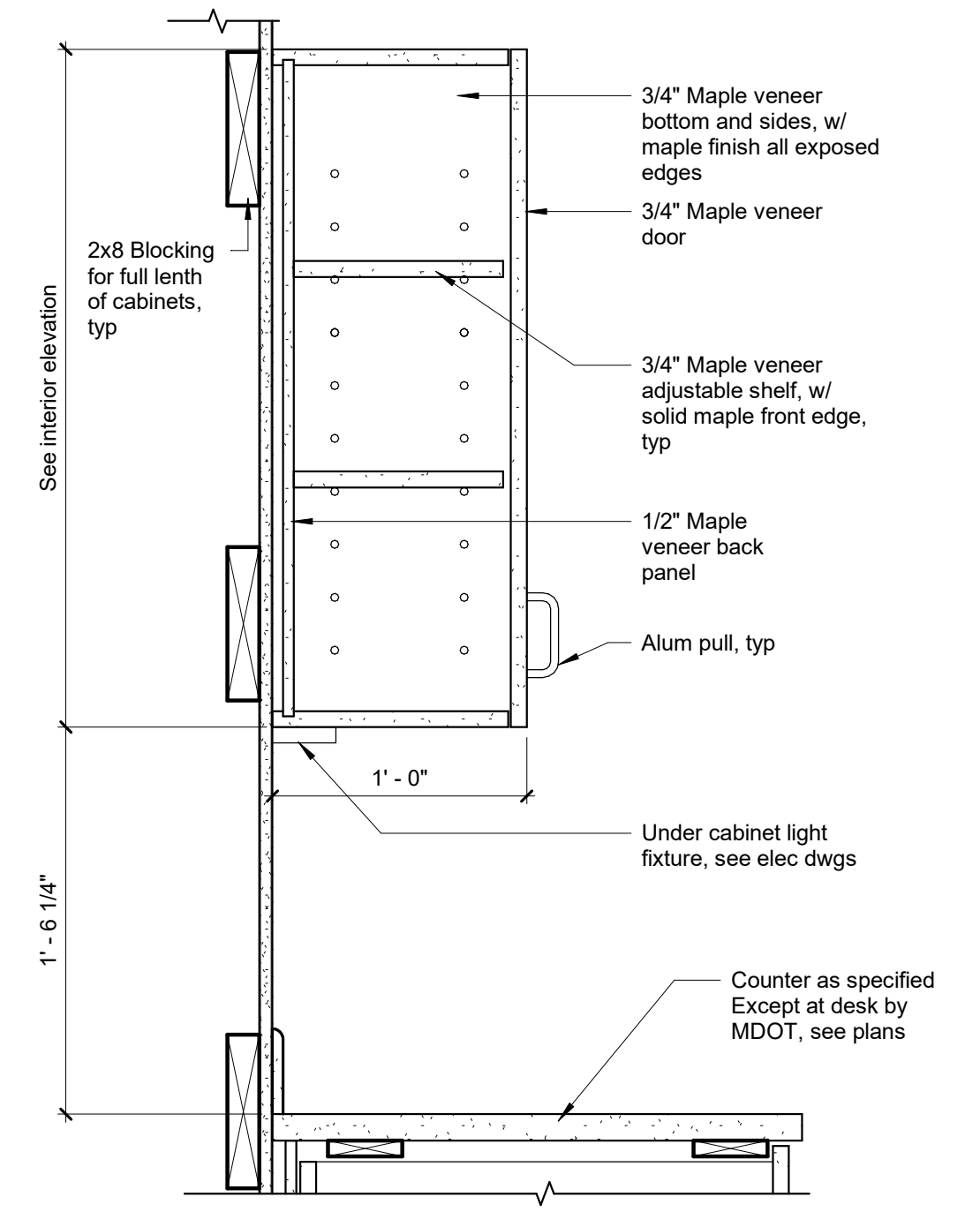
7 Typ Locker Detail
1 1/2" = 1'-0"



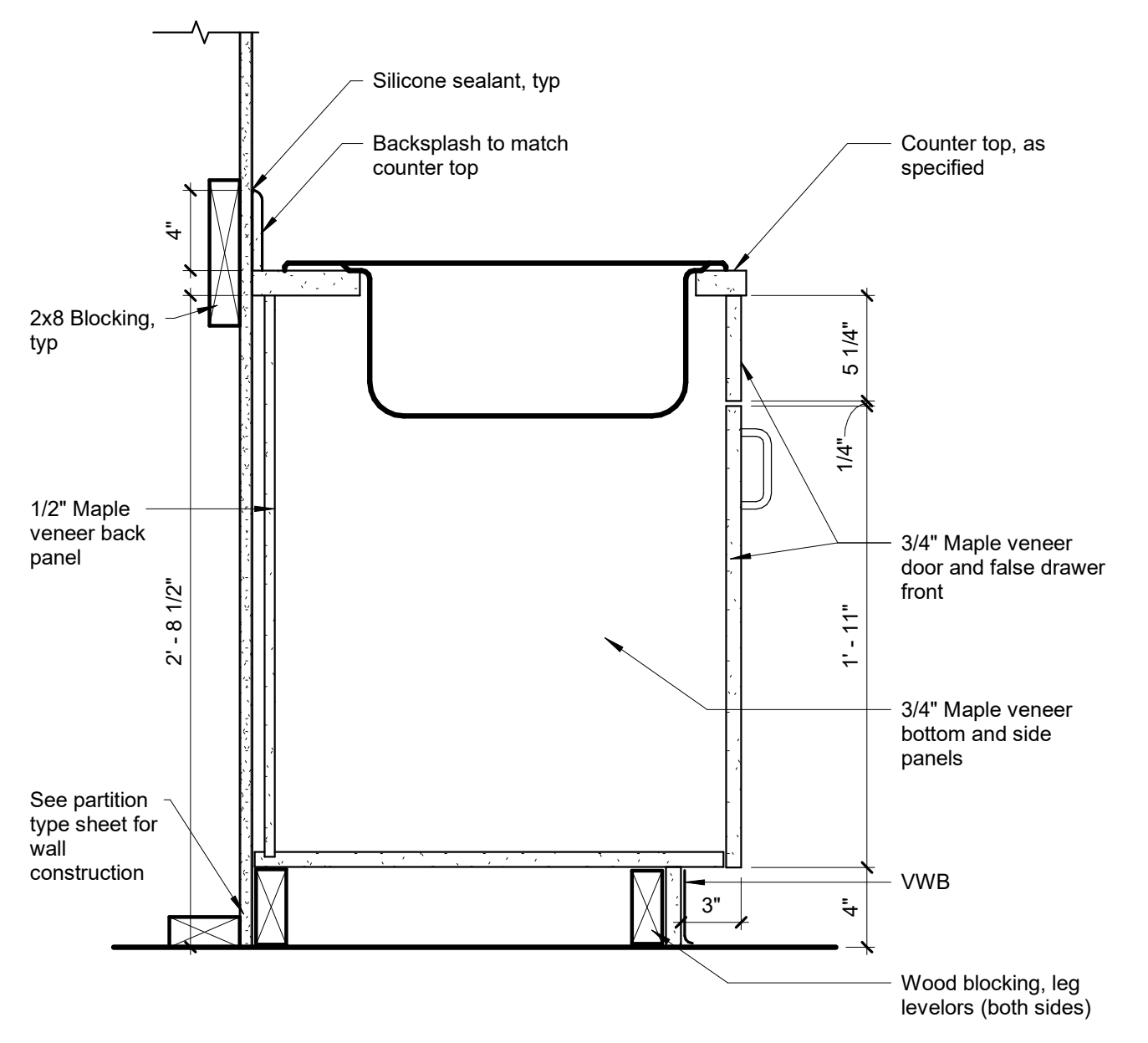
6 Tall Cabinet
1 1/2" = 1'-0"



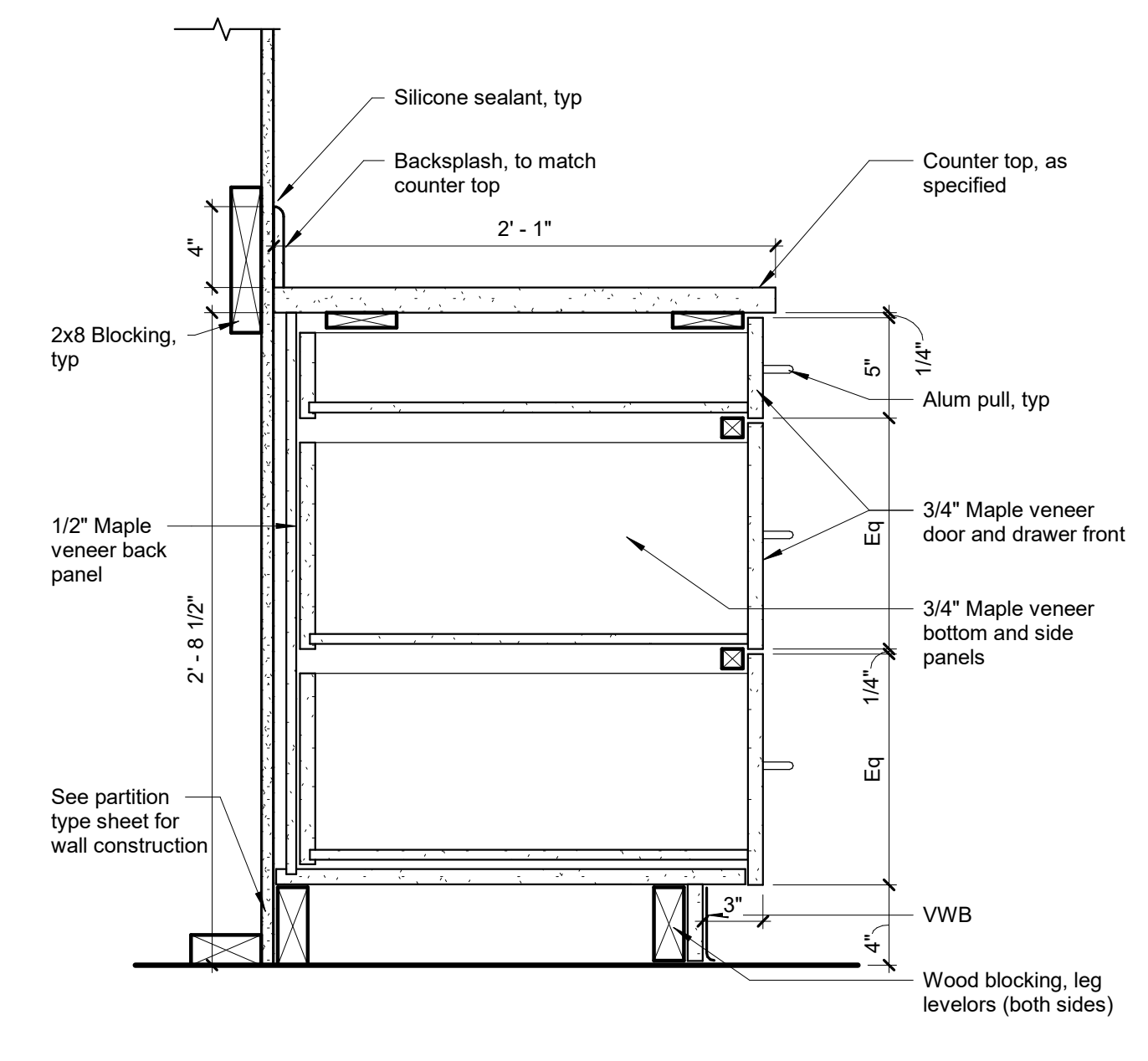
5 Cabinet Detail Hall Sink
1 1/2" = 1'-0"



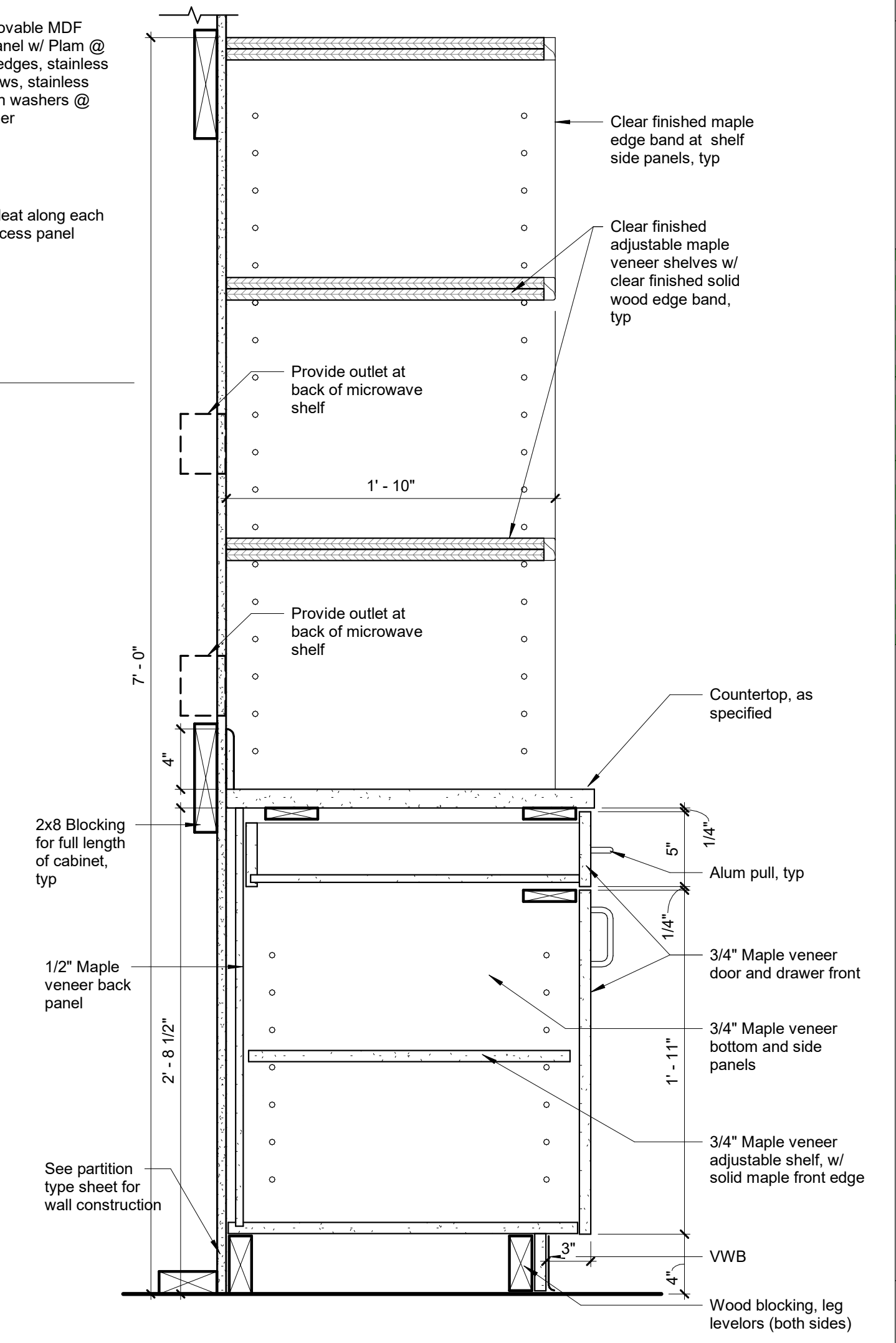
4 Cabinet Details Upper Cabinet w/ Doors
1 1/2" = 1'-0"



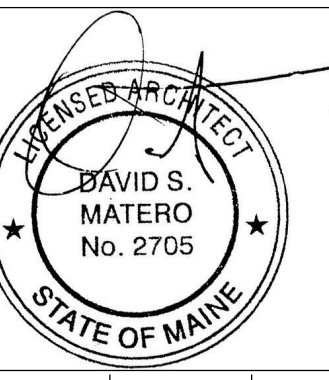
3 Cabinet Details Base @ Sink
1 1/2" = 1'-0"



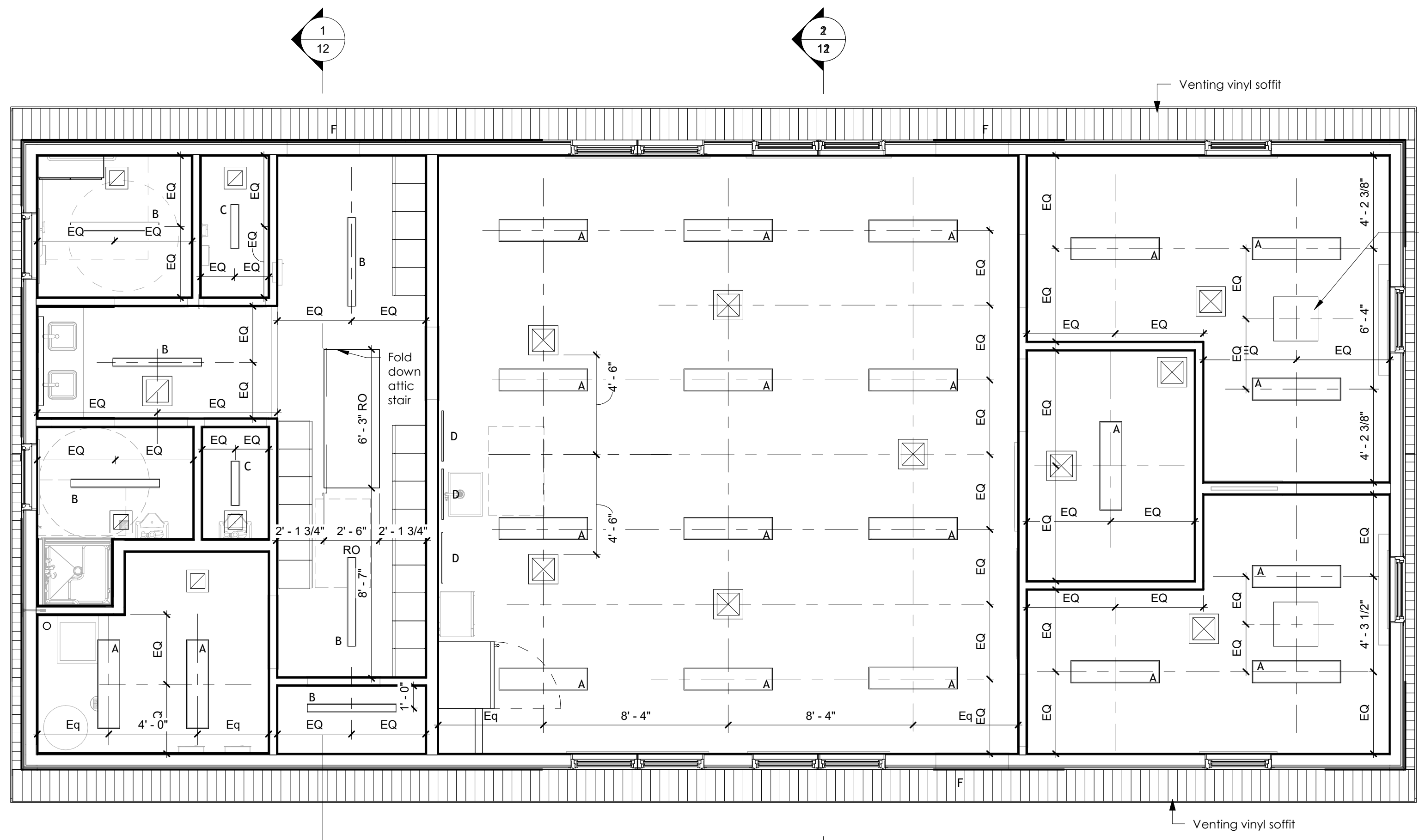
2 Cabinet Details Base @ Drawers
1 1/2" = 1'-0"



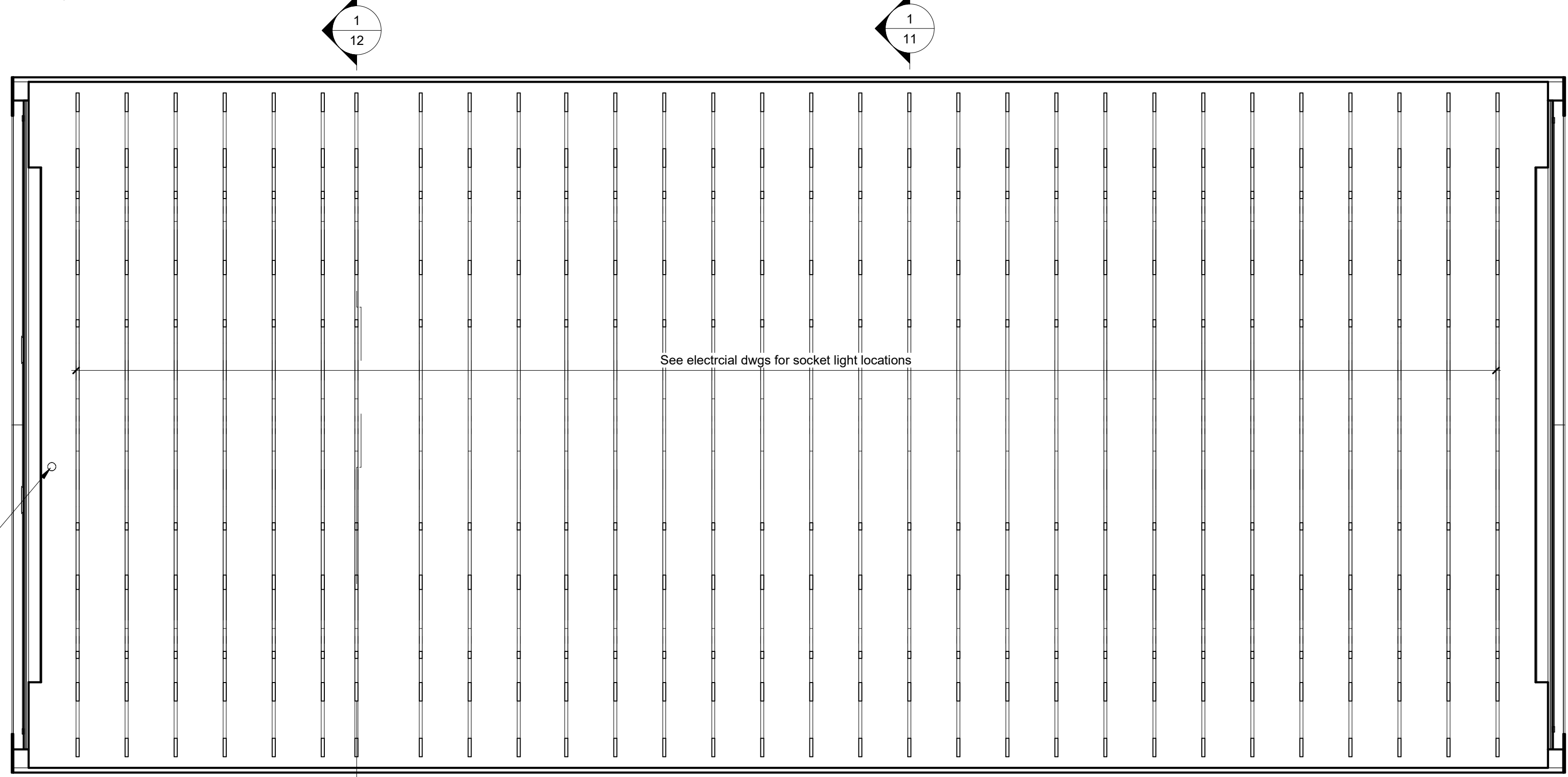
1 Cabinet Details Microwave
1 1/2" = 1'-0"



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1 First Floor Reflected Ceiling Plan
1/4" = 1'-0"



2 Attic Reflected Ceiling Plan
1/4" = 1'-0"

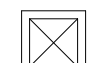
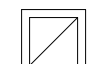
Mech equip, see mech dwgs. Coord location w/ truss location

Lighting Fixture Schedule

A	12" x 48" Surface mounted LED fixture
B	4" x 48" Surface mounted LED fixture
C	4" x 12" Surface mounted LED fixture
D	Undercabinet LED fixture
E	4" x 48" Wall mounted LED mirror fixture
F	Exterior Wall mounted full-cutoff LED fixture

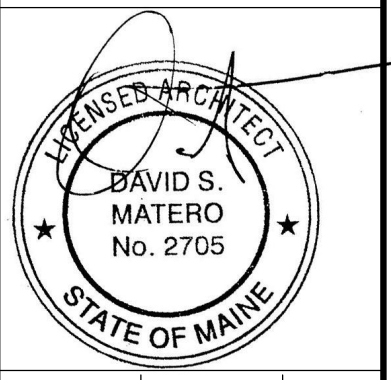
Note: See electrical drawings for fixture specifications

Reflected Ceiling Legend

 Supply Register
 Return Register
 Note: See Mechanical plans for register specifications

STATE OF MAINE DOT
CREW QUARTERS MEDWAY, MAINE
MEDWAY, MAINE
WIN 030331.00

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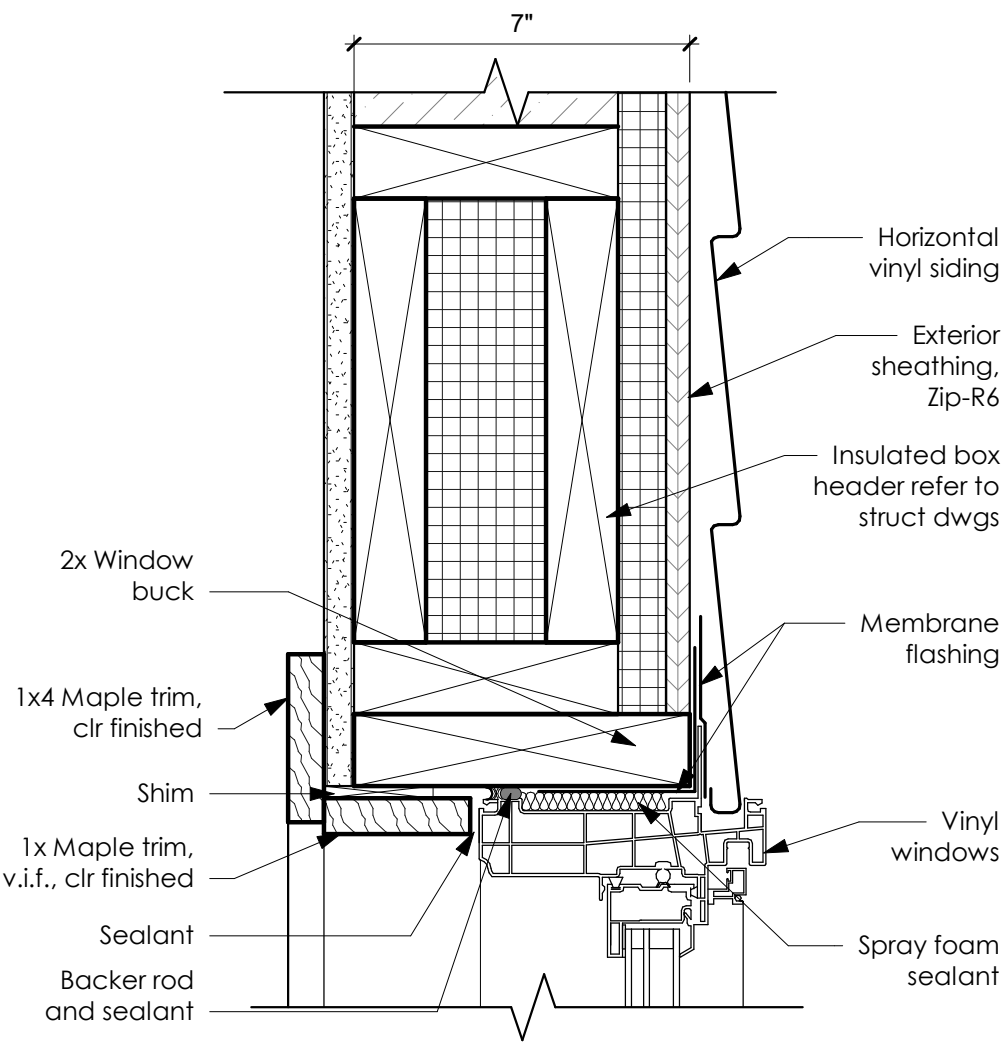


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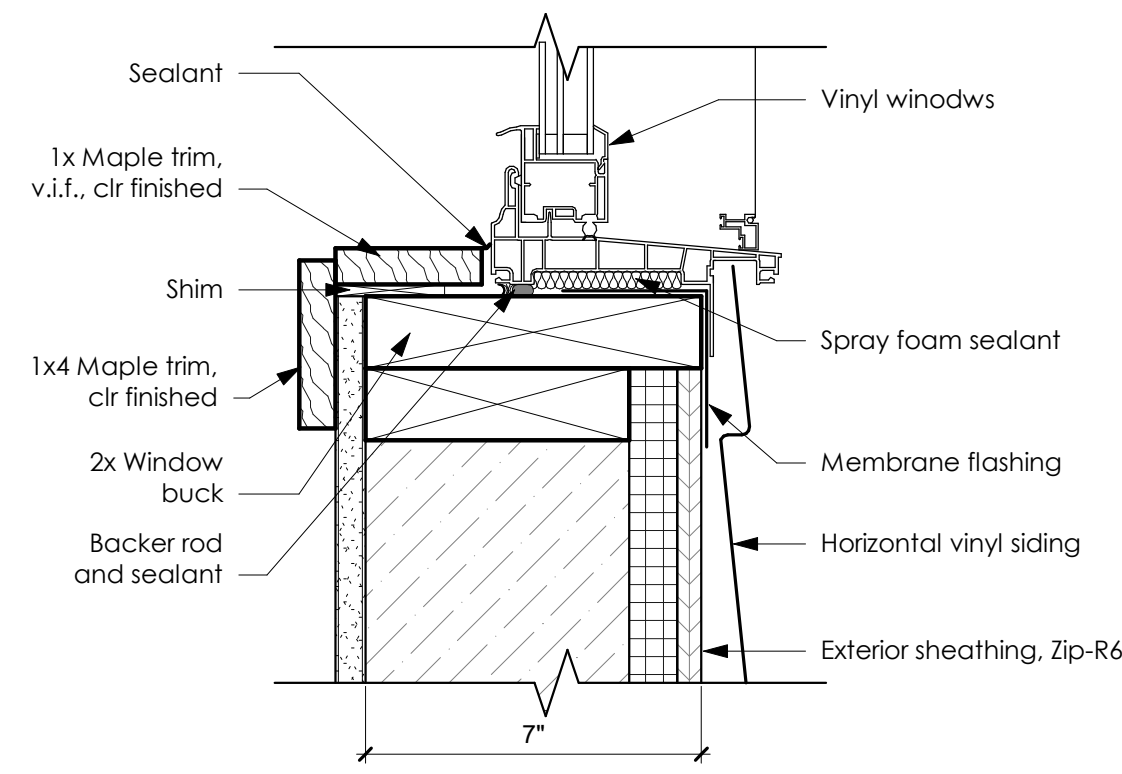
CREW QUARTERS
MEDWAY, MAINE
PROPOSED REFLECTED
CEILING PLAN

SHEET NUMBER

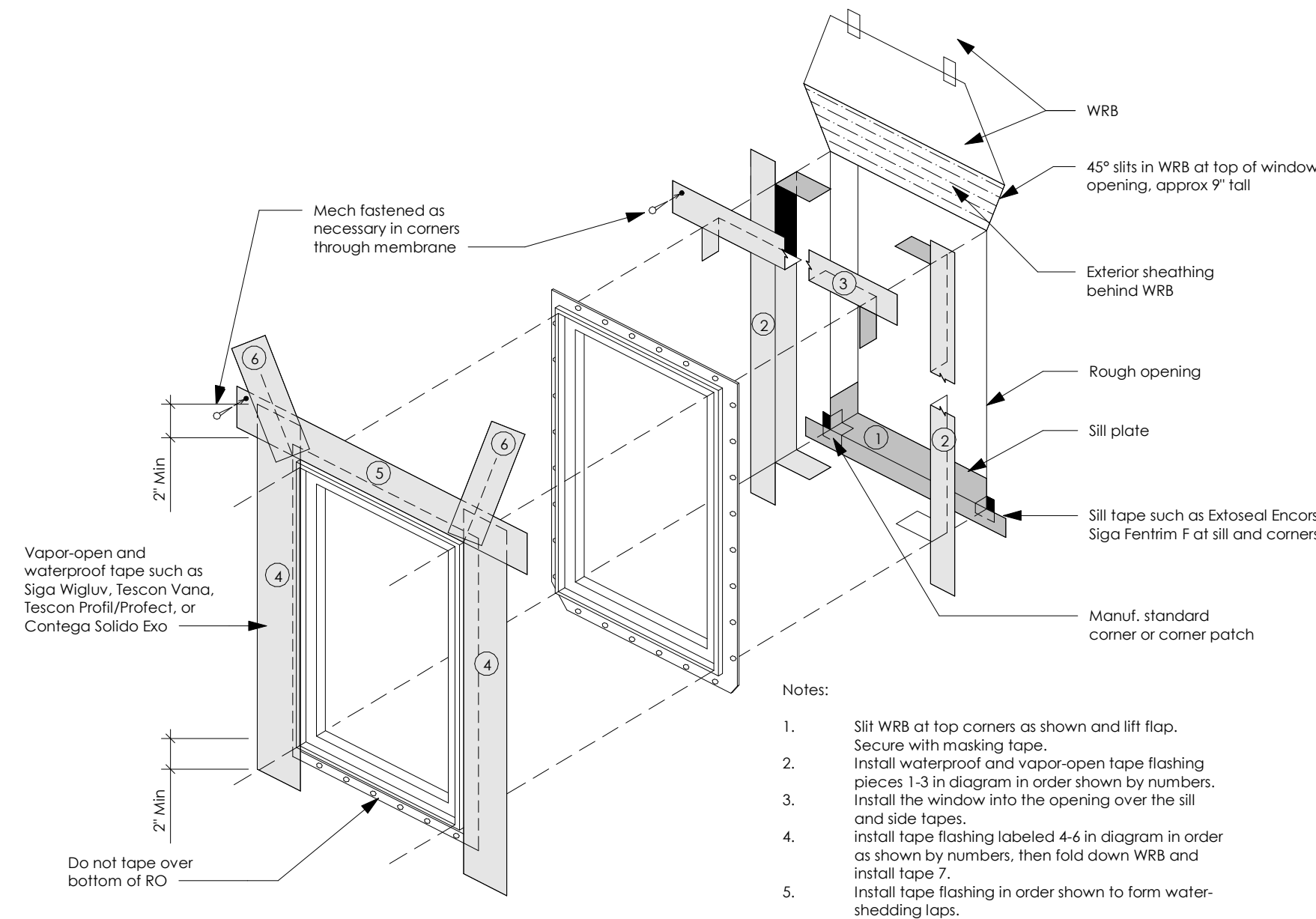
Mathews Brothers - Sanford Hills Window Schedule - Triple Glazed													
Tag	Manufacturer	Width	Height	# of Units Wide	Rough Opening		Materials		Egress	Tempered	U Value	SGHC	Remarks
					Width	Height	Exterior Finish	Interior Finish					
A	Mathews Brothers	3' - 0"	4' - 0"	1	3' - 0 1/2"	4' - 0 1/2"	Vinyl - White	Vinyl - White			0.2	0.23	
B	Mathews Brothers	3' - 0"	4' - 0"	2	6' - 0 5/8"	4' - 0 1/2"					0.2	0.23	
D	Mathews Brothers	3' - 0"	1' - 6"	1	3' - 0 1/2"	1' - 6 1/2"					0.2	0.23	



7 Typ Det @ Window Head / Jamb Sim
3" = 1'-0"



6 Typ Det @ Window Sill
3" = 1'-0"



5 Window Flashing Detail - WRB Over Sheathing
NTS

Door Notes	
1.	All doors shall be located 4" off adjacent wall except where noted or dimensioned
2.	All door thicknesses to be 1 3/4" unless noted otherwise
3.	Provide minimum of double studs at all door jambs.
4.	All floor material transitions shall occur under door in closed position
5.	All door hardware shall meet ADA. Handles, pulls and latches shall be lever style. When sliding doors are fully opened (if specified), operating hardware shall be exposed and usable from both sides.
6.	Provide wall-mounted door stops at all door openings opening against adjacent wall or door. Provide solid blocking at all locations of wall mounted door stops.
7.	Provide floor mounted door stops at all doors where wall stops are not appropriate

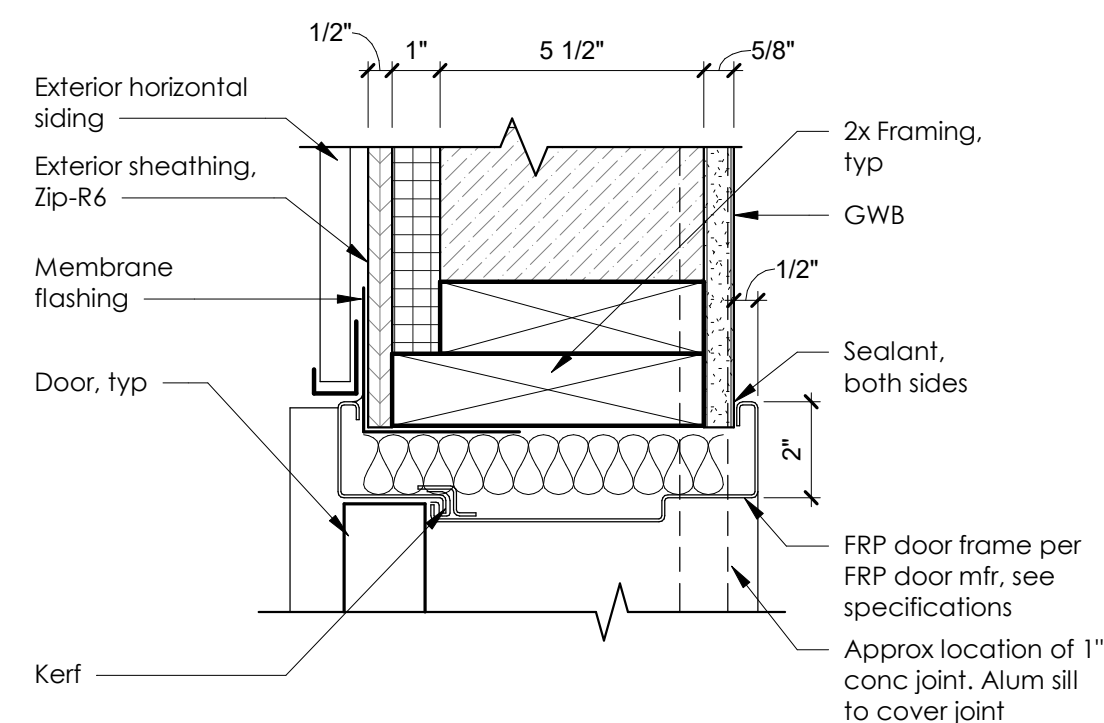
Abbreviations

AL	Aluminum
Clsr	Closer
Ex	Existing
HM	Hollow Metal
Hrdwr	Hardware
Insul	Insulated
Obs	Obscured Glass, Tempered
Pnt	Paint
Pre	Prefinish
Smoke	Smoke Seal Frame
Thick	Thickness
Wstrp	Weatherstripping
Wd	Wood
GL	Glazing
SC	Solid Core
FG	Fiberglass

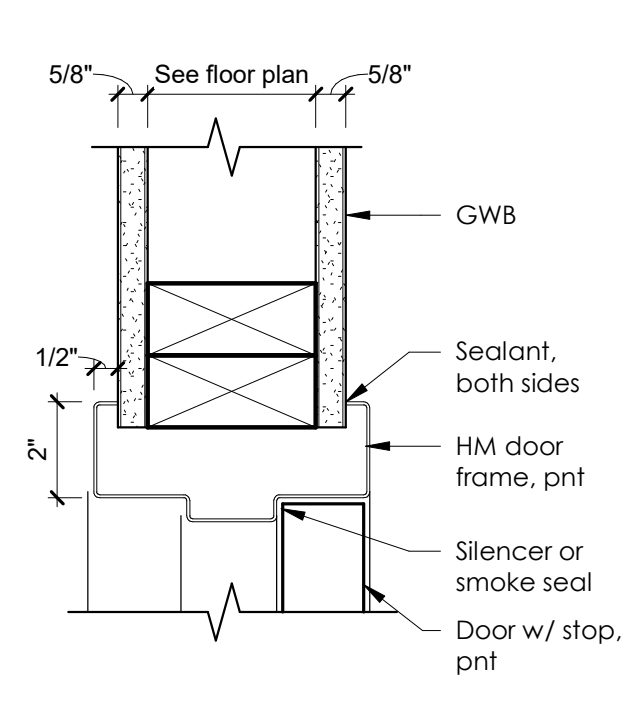
Hardware Abbreviations

BF	Bifold
DB	Dead Bolt
ED	Exit Device w/ Keypad
EL	Entry Lock
FP	Flush Pull
MBC	Magnet Ball Catch
MP	Multi-Point French Door Lock
PDL	Pocket Door HW, Lock
PL	Privacy Lock
PS	Passage Set
RC	Remote Control Opener
SC	Screen Porch HW
OF	Office Lock

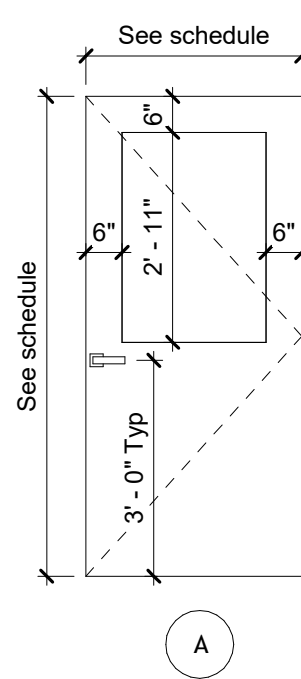
DOOR SCHEDULE																		
No.	Door								Frame				Hardware	Rating	Glazing	Closer	Panic	Comments
	Width	Height	Thick.	Material	Type	Finish	Insulated	Material	Type	Head	Jamb	Threshold						
1-01	3' - 0"	6' - 8"	1 3/4"	FRP	A	Pnt	Yes	FRP	1	4/19	4/19	Alum - ADA	ED		Insul/Temp	Yes	Yes	
1-02	3' - 0"	6' - 8"	1 3/4"	FRP	A	Pnt	Yes	FRP	1	4/19	4/19	Alum - ADA	ED		Insul/Temp	Yes	Yes	
1-03	2' - 6"	6' - 8"	1 3/4"	WD	B	Pnt		HM	2	3/19	3/19		PL					
1-04	3' - 0"	6' - 8"	1 3/4"	WD	B	Pnt		HM	2	3/19	3/19		PL					
1-05	3' - 0"	6' - 8"	1 3/4"	WD	B	Pnt		HM	2	3/19	3/19		PL					
1-06	2' - 6"	6' - 8"	1 3/4"	WD	B	Pnt		HM	2	3/19	3/19		PL					
1-07	3' - 0"	6' - 8"	1 3/4"	WD	B	Pnt		HM	2	3/19	3/19		PS					
1-08	3' - 0"	6' - 8"	1 3/4"	WD	A	Pnt		HM	2	3/19	3/19		PS		Temp	Yes		
1-09	3' - 0"	6' - 8"	1 3/4"	WD	B	Pnt		HM	2	3/19	3/19		OF					
1-10	3' - 0"	6' - 8"	1 3/4"	WD	A	Pnt		HM	2	3/19	3/19		PS		Temp			
1-11	3' - 0"	6' - 8"	1 3/4"	WD	B	Pnt		HM	2	3/19	3/19		OF					
1-12	3' - 0"	6' - 8"	1 3/4"	WD	B	Pnt		WD	2				PDL					
1-13	3' - 0"	6' - 8"	1 3/4"	WD	B	Pnt		HM	2	3/19	3/19		PS					
1-14	3' - 0"	6' - 8"	1 3/4"	FRP	A	Pnt	Yes	FRP	1	4/19	4/19	Alum - ADA	ED		Insul/Temp	Yes	Yes	



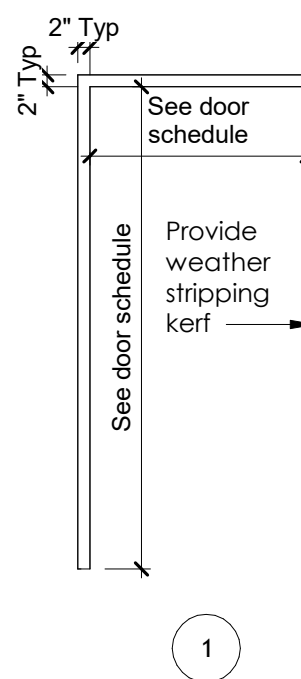
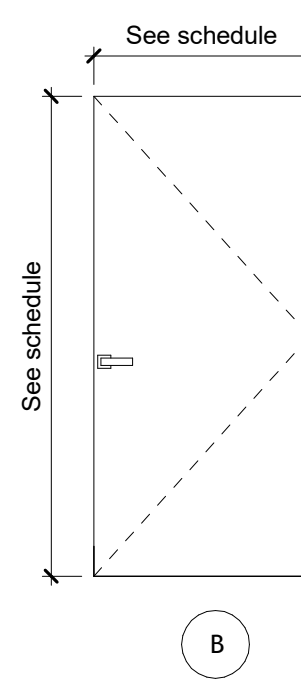
4 Typ Exterior Door Jamb Det (Head Sim)
3" = 1'-0"



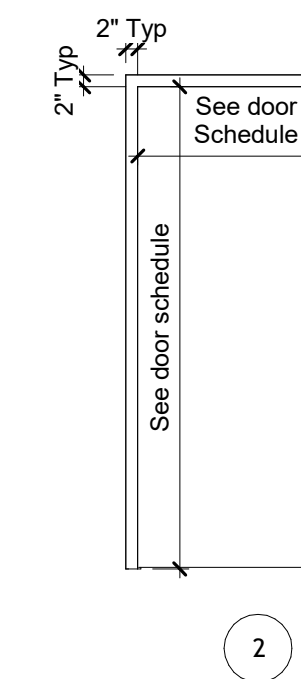
3 Door Jamb Det (Head Sim)
3" = 1'-0"



2 Door Types
3/8" = 1'-0"

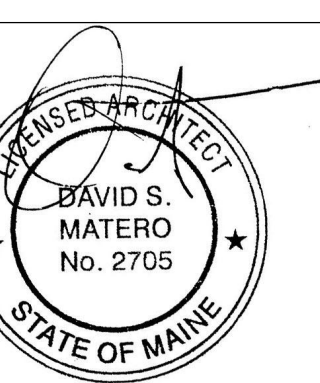


1 Frame Types
3/8" = 1'-0"



STATE OF MAINE DOT
CREW QUARTERS MEDWAY, MAINE
MEDWAY, MAINE
WIN 030331.00

David Matero
Architecture
49 Centre Street
Bath, ME 04530
207.389.4278
info@davidmatero.com



DATE: 2705
BY: DM
FOR BID: PE NUMBER: OCT. 2025
DATE:

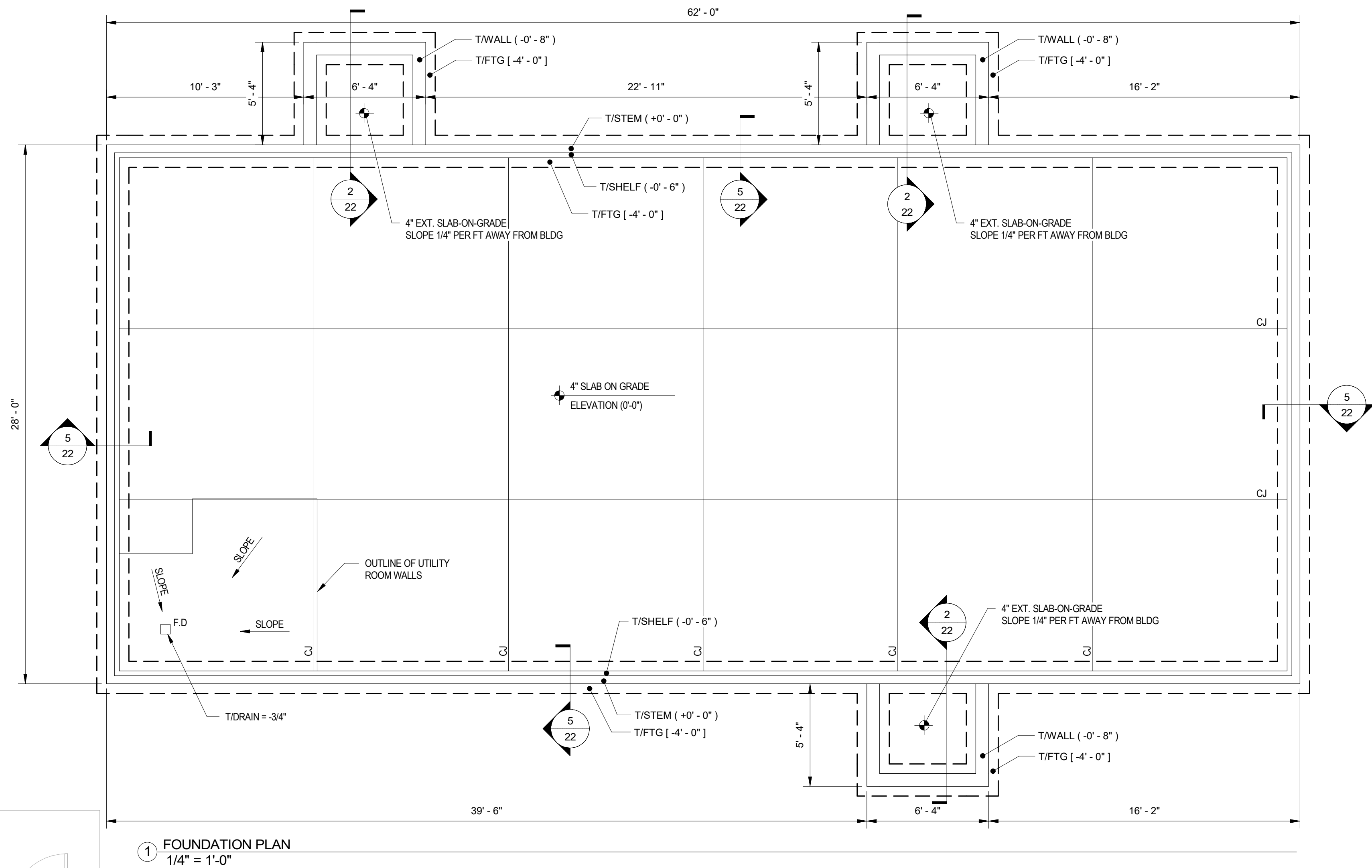
CREW QUARTERS
MEDWAY, MAINE
WINDOW & DOOR
SCHEDULES, DETAILS

SHEET NUMBER

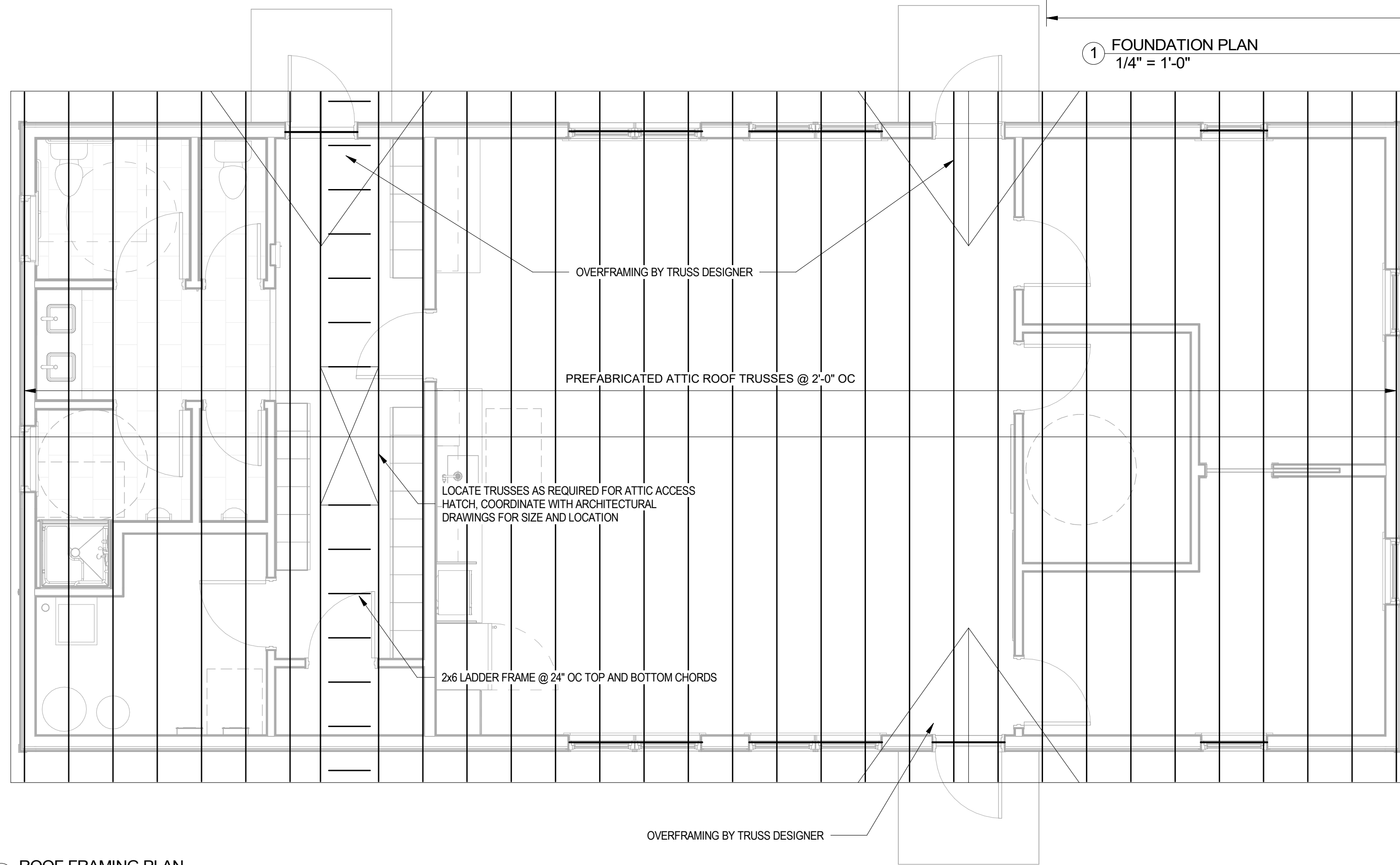
19

FOUNDATION PLAN NOTES

1. REFERENCE TOP OF SLAB-ON-GRADE ELEVATION = 0'-0", COORDINATE WITH CIVIL FOR ACTUAL ELEVATION
2. TOP OF CONCRETE ELEVATIONS ARE NOTED (+/- X'-X") FROM REFERENCE ELEVATION.
3. "CJ" DENOTES CONTROL JOINT LOCATION



① FOUNDATION PLAN
1/4" = 1'-0"



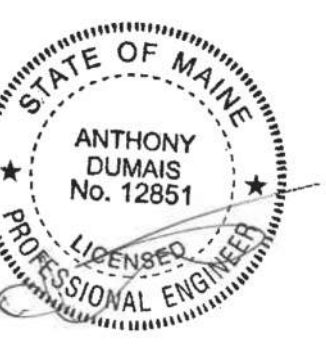
② ROOF FRAMING PLAN
1/4" = 1'-0"

FRAMING NOTES:

1. WALL FRAMING SHALL BE 2x6 @ 24" ON CENTER, ALIGNED WITH ROOF TRUSSES.
2. SEE TYPICAL HEADER DETAIL AND SCHEDULE 6 / 22
3. ALL EXTERIOR WALLS SHALL BE SHEATHED ON ONE SIDE WITH ZIP R6 SHEATHING, NAIL EXTERIOR SHEATHING PANEL EDGES @ 3" O.C. BLOCK AND STAGGER ALL PANEL EDGES. SPACE NAILS AT 12" O.C. AT INTERMEDIATE PANEL SUPPORTS, TYP U.N.O.
4. SEE PREFABRICATED TRUSS NOTES ON STRUCTURAL NOTES SHEET FOR LOADING INFORMATION

STATE OF MAINE DOT

CREW QUARTERS
MEDWAY, MAINE
WIN 030331.00

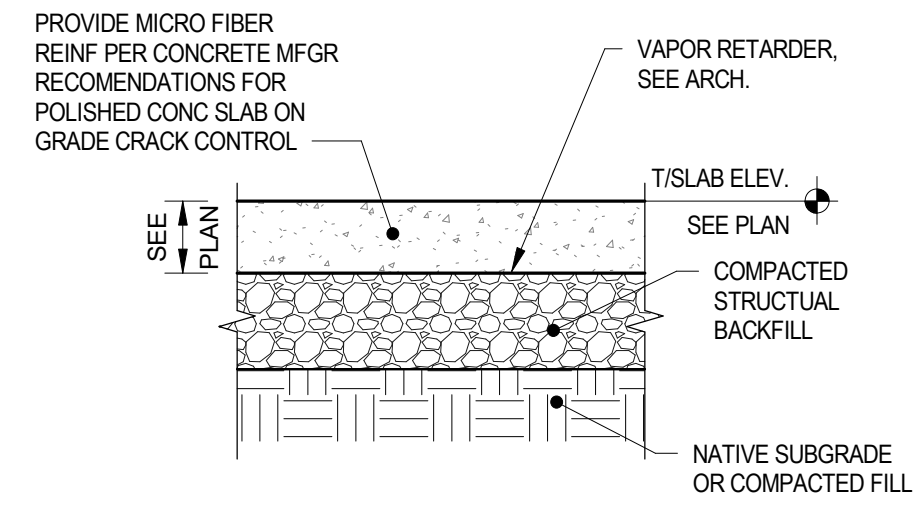


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OCT. 2025						

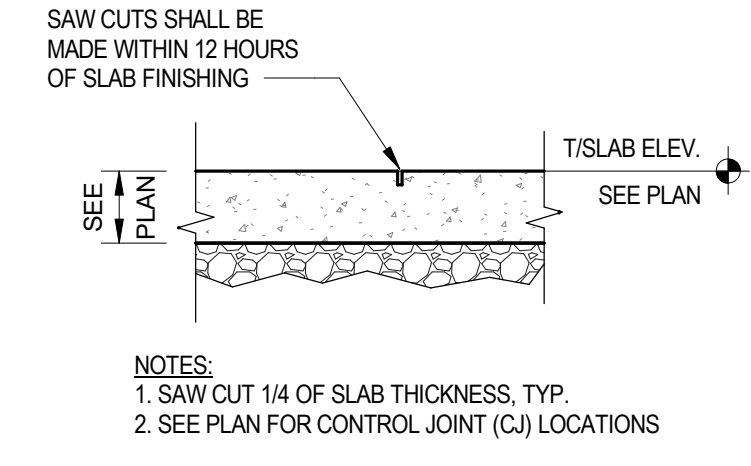
CREW QUARTERS
FOUNDATION & ROOF
FRAMING PLANS

SHEET NUMBER

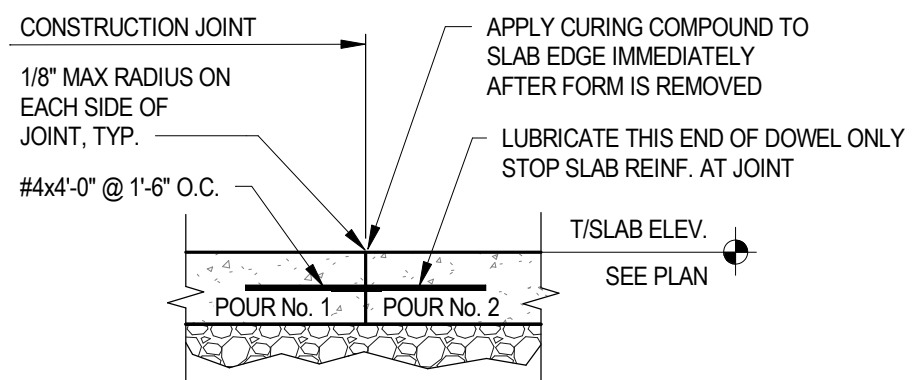
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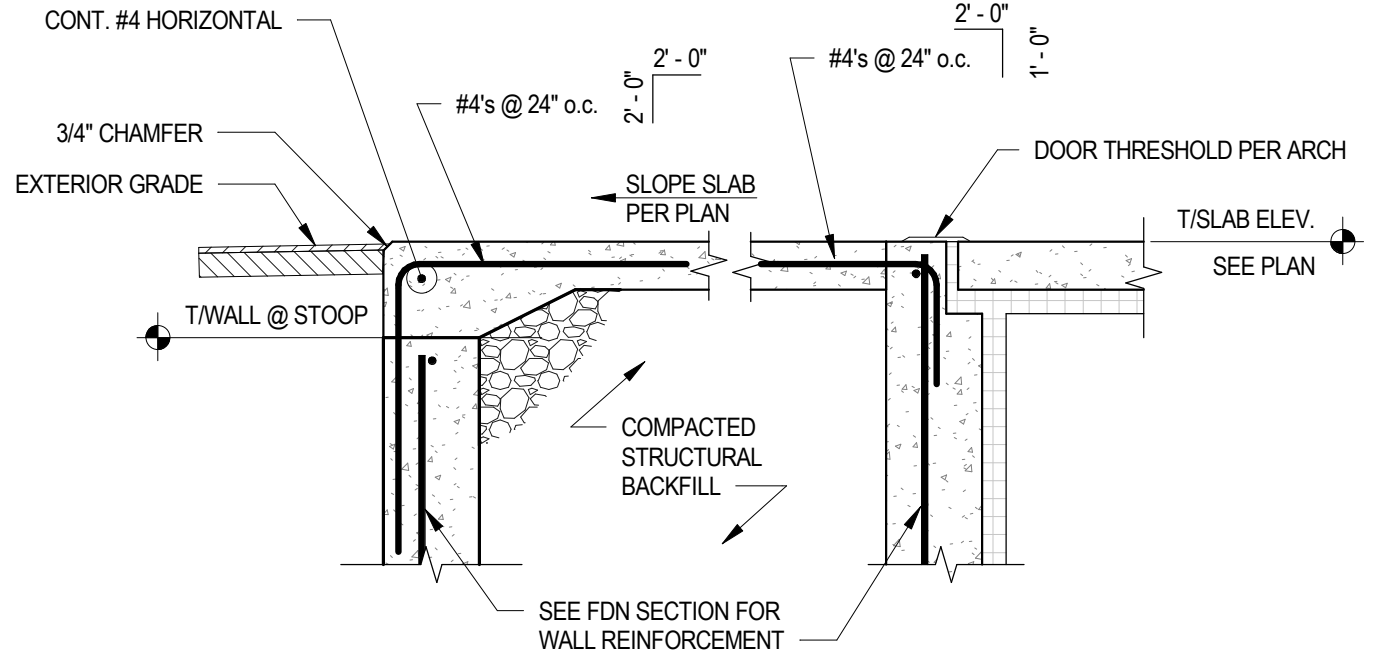
1 TYPICAL SLAB-ON-GRADE DETAILS
NTS



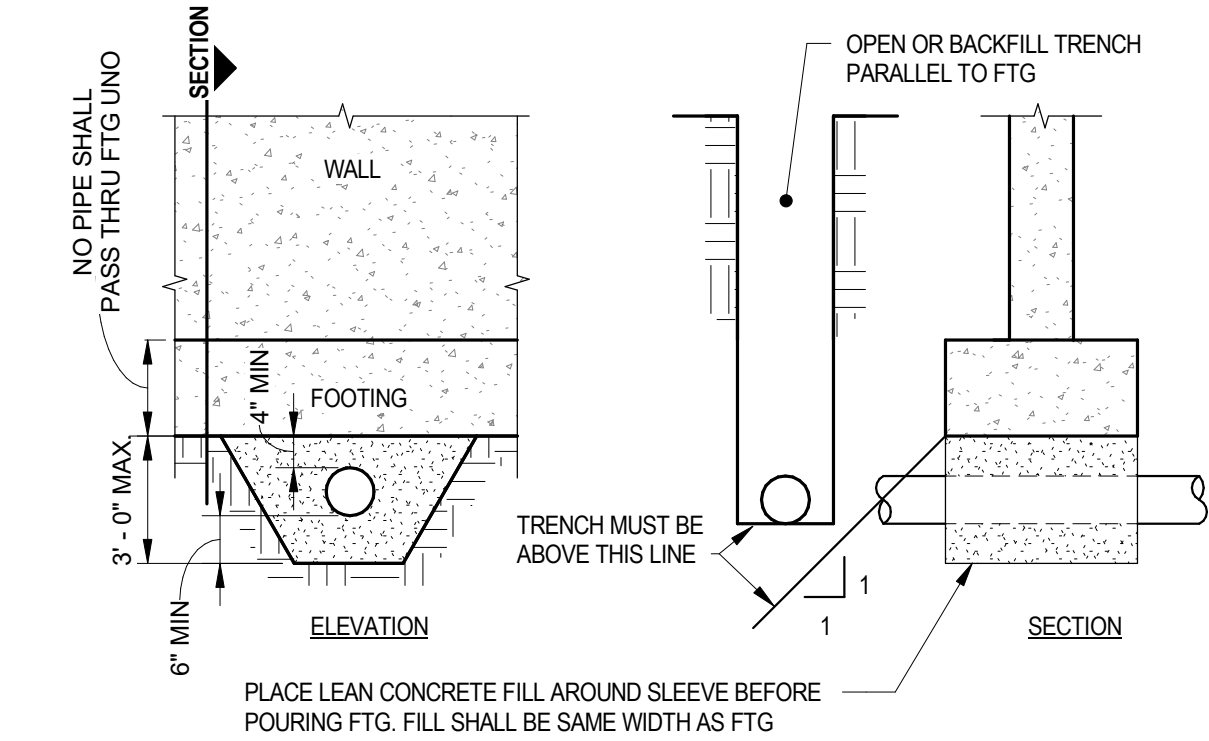
CONTROL JOINT



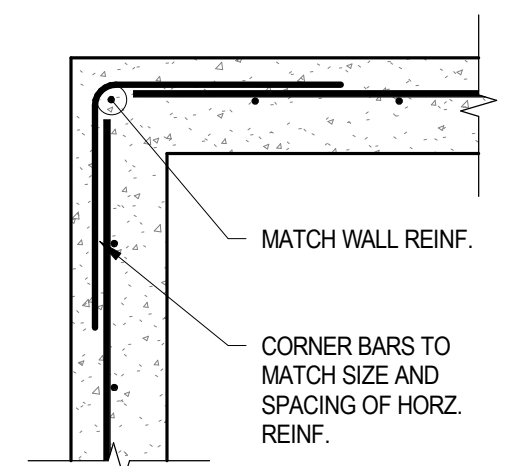
CONSTRUCTION JOINT



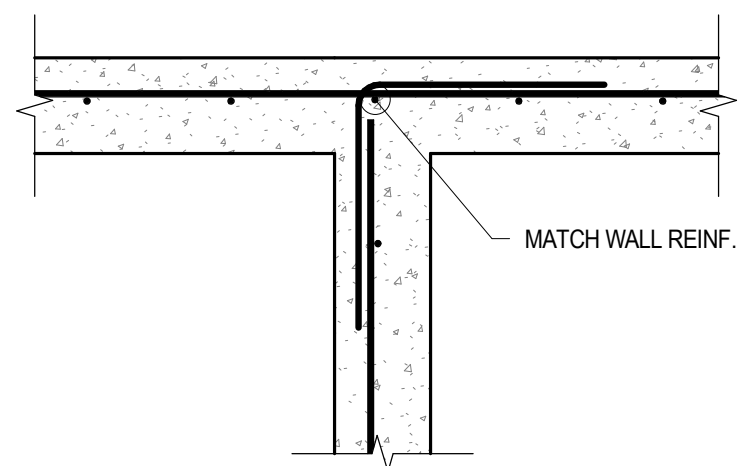
2 TYPICAL SECTION AT STOOP
NTS



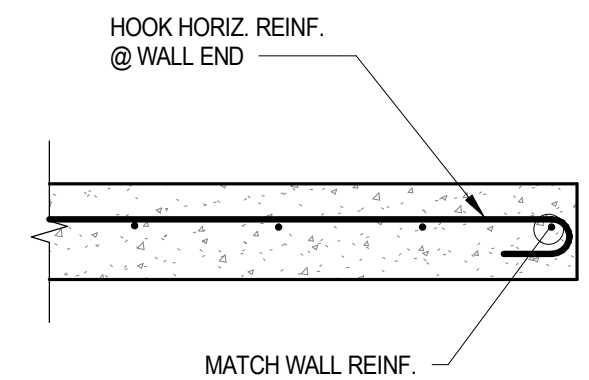
3 TYPICAL UTILITY UNDER FOOTING
NTS



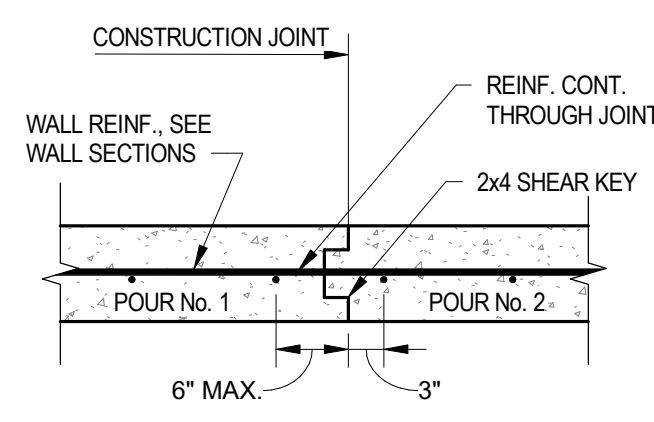
DETAIL @ WALL CORNER
W/ SINGLE ROW OF WALL REINFORCING



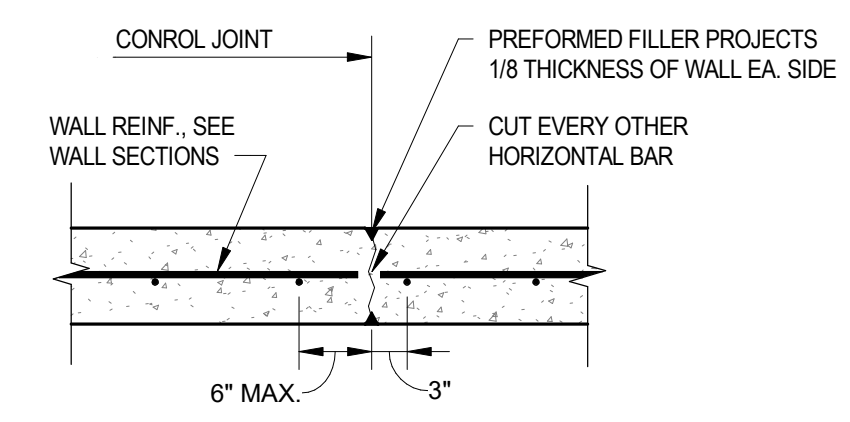
DETAIL @ WALL INTERSECTION
W/ SINGLE ROW OF WALL REINFORCING



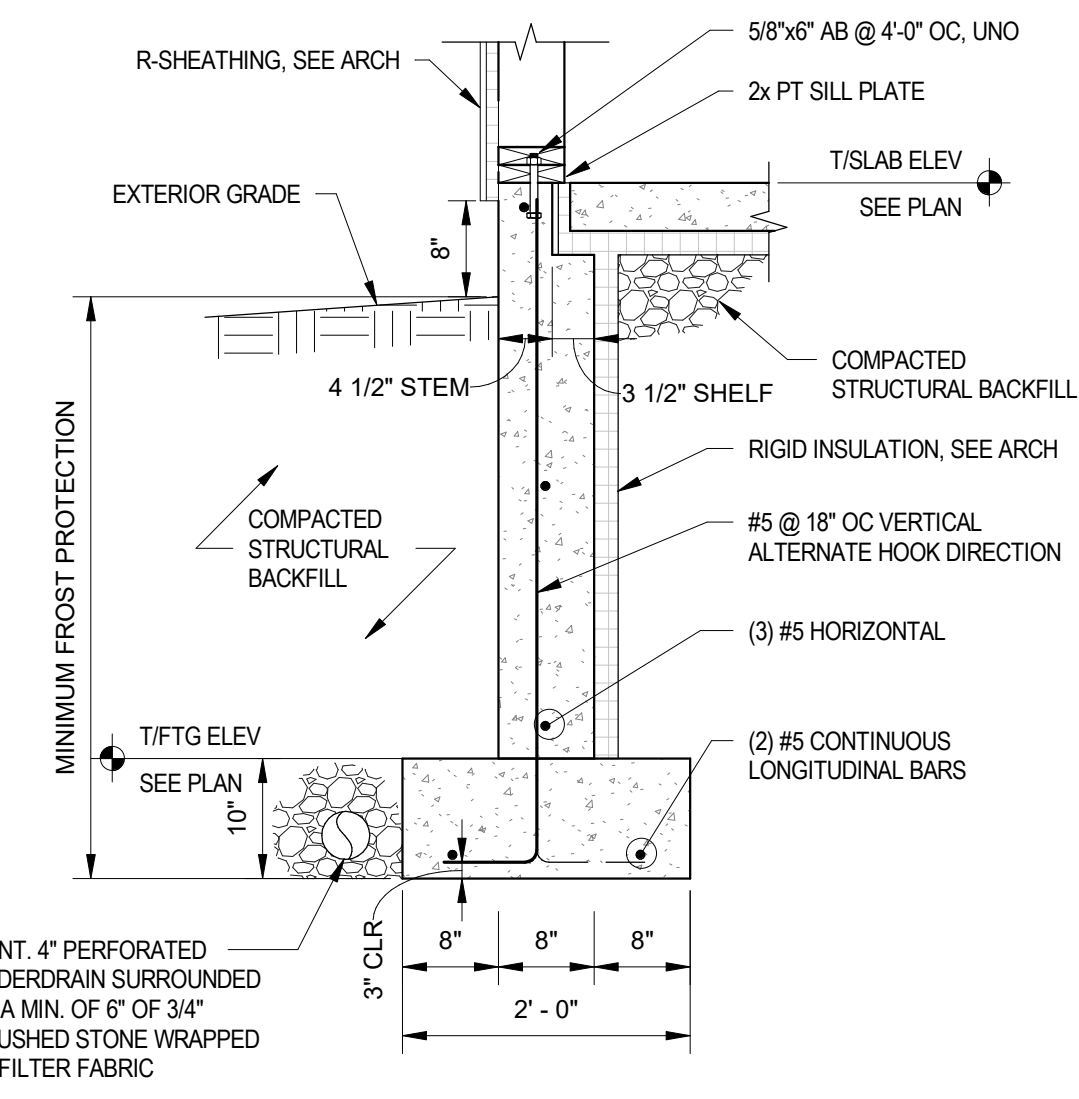
DETAIL @ WALL END
W/ SINGLE ROW OF WALL REINFORCING



CONSTRUCTION JOINT DETAIL
W/ SINGLE ROW OF WALL REINFORCING

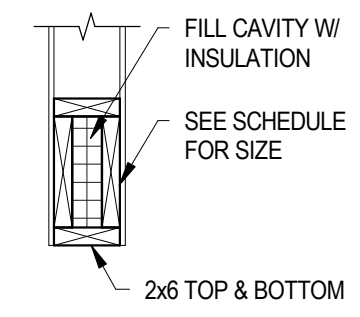


CONTROL JOINT DETAIL
W/ SINGLE ROW OF WALL REINFORCING



5 TYPICAL FOUNDATION WALL SECTION
NTS

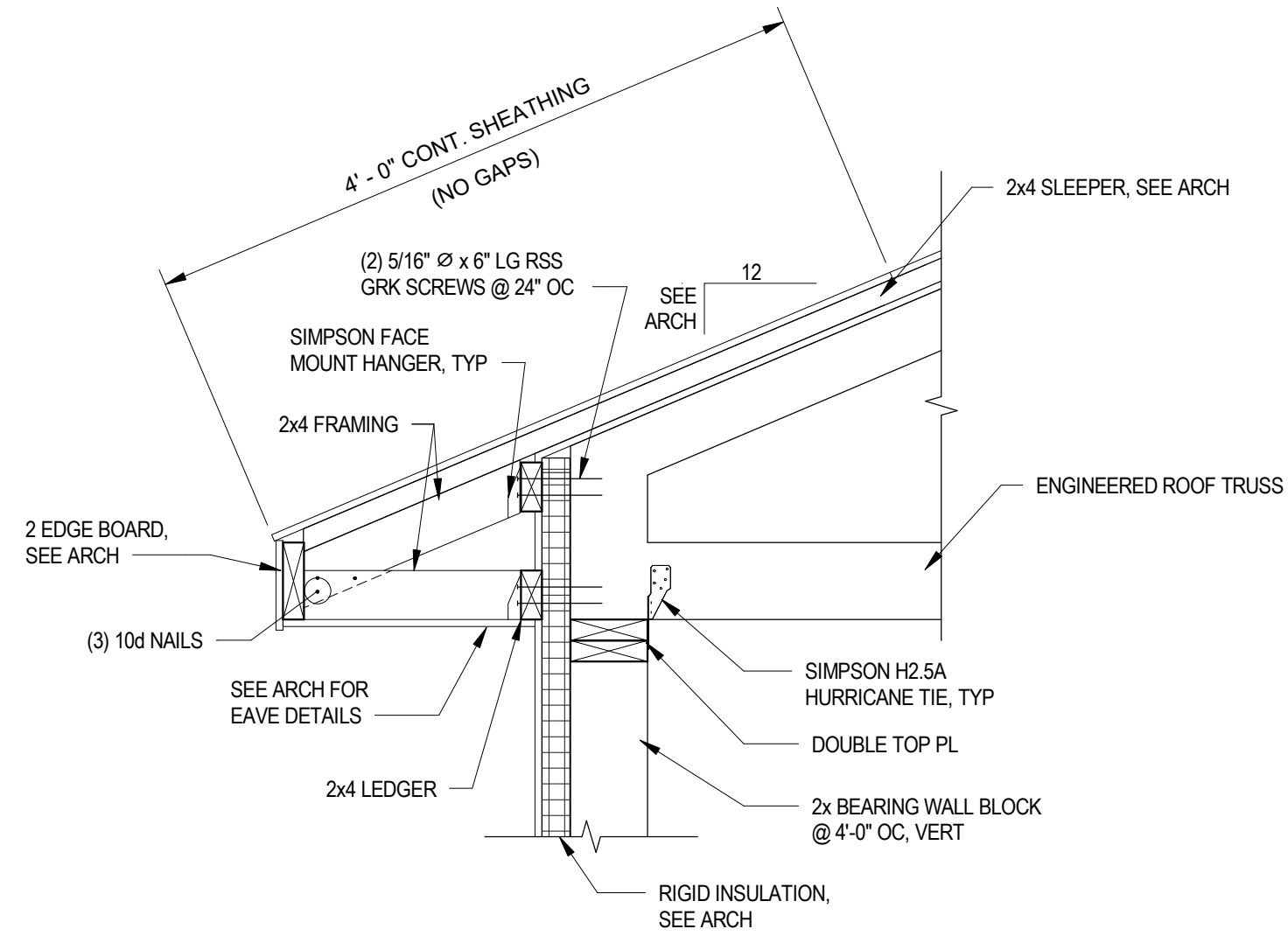
4 TYPICAL FOUNDATION WALL DETAILS - SINGLE LAYER OF REINF
NTS



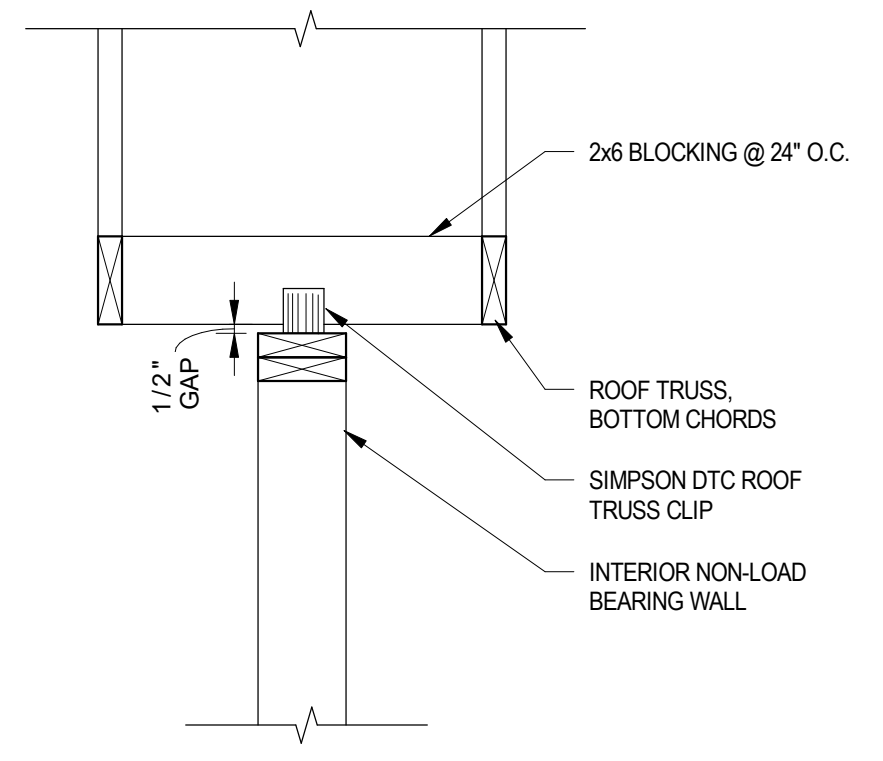
HEADER SPAN	HEADER SIZE	HEADER SUPPORTS
4'-0" MAX	(2) 2x10	(1) JACK, (1) KING
8'-0" MAX	(2) 1 3/4 x 9 1/4 LVL	(2) JACK, (2) KING

- NOTES:
- HEADER SIZES PER SCHEDULE.
 - WHERE OTHER HEADER SIZES ARE NOTED ON PLAN, FORM BOX HEADER W/ (2) 2x6 HORIZ UNO.
 - NON LOAD-BEARING HEADERS SUPPORTED BY MINIMUM OF (1) JACK STUD.
 - WINDOW SILL PLATES EXCEEDING 6 FT SHALL BE (2) 2x (FLAT), MATCH STUD WIDTH.

6 HEADER DETAIL & SCHEDULE
NTS



7 TYPICAL ROOF TRUSS END DETAIL
1" = 1'-0"



8 TYPICAL WOOD TRUSS DEFLECTION CLIP
NTS

STATE OF MAINE DOT
CREW QUARTERS
MEDWAY, MAINE
WIN 030331.00

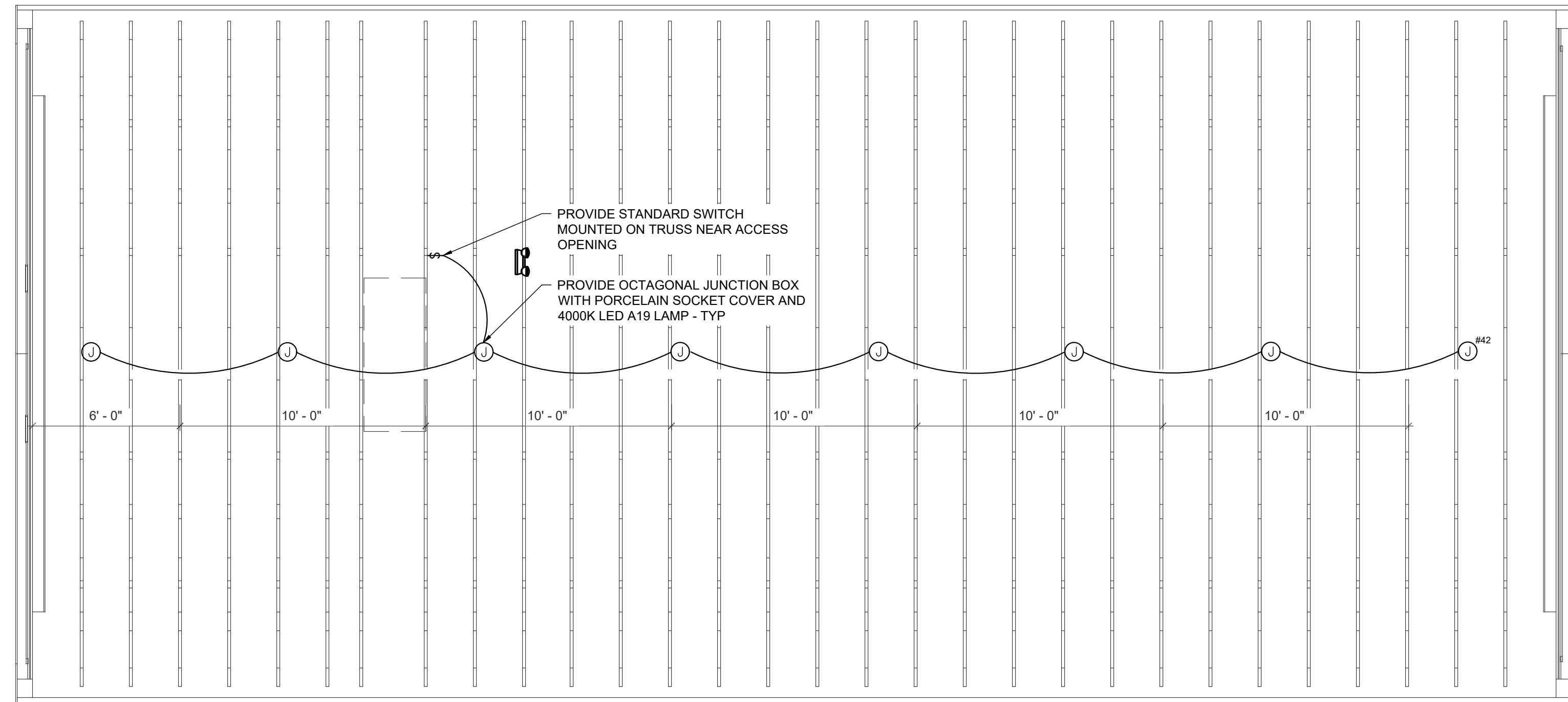


DATE	BY	REV	FOR BID
OCT. 2025			

CREW QUARTERS
STRUCTURAL DETAILS

SHEET NUMBER

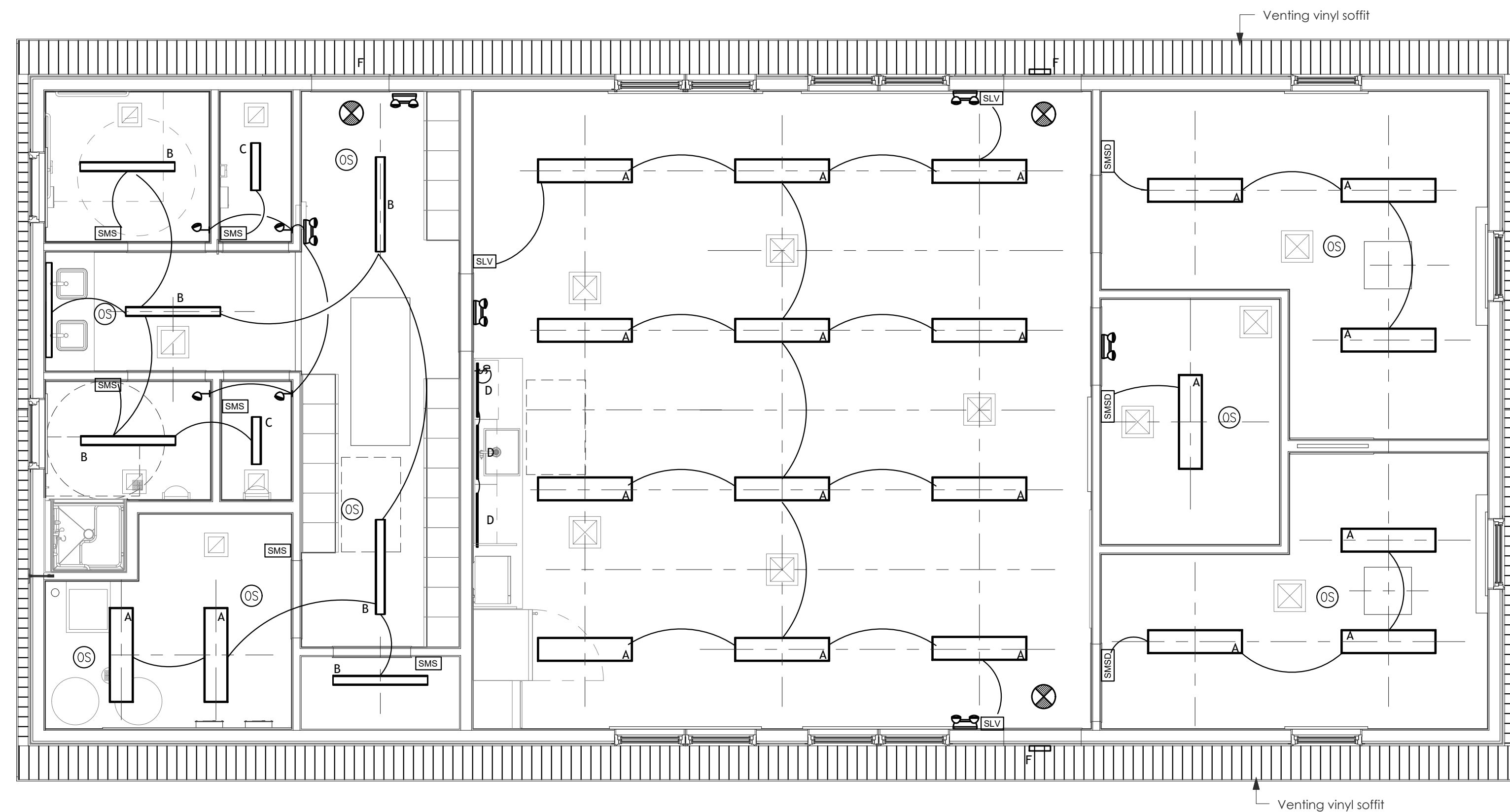
LIGHTING FIXTURE SCHEDULE					
NEW TYPE	MANUFACTURER	ORDING INFORMATION MODEL NUMBER	LED INFORMATION WATTAGE / COLOR TEMP / LUMENS	SIZE	FIXTURE INFORMATION DESCRIPTION
A	ORACLE LIGHTING	14-OSMT-LED-3400L-DIM10-MVOLT-30K-85-A12	29W / 3000K / 3400 LUMENS	12" W x 4'-0" L x 4 1/4" H	SURFACE MOUNTED 1'x4' LED TROFFER, CONSTRUCTED OF ONE-PIECE RIBBED UNITIZED HOUSING, FROSTED ACRYLIC LENS, ACCESSIBLE AND REMOVEABLE LED LIGHT ENGINE, FINISH: WHITE
B	ORACLE LIGHTING	O1S-CM-LED-4-S-4-1000L-HEX-BK-DIM10-120-30K-90-WH	32.8W / 3000K / 4000 LUMENS	4" W x 4'-0" L x 4.81" H	CEILING MOUNTED 4" WIDE 4' LINEAR GENERAL ILLUMINATION FIXTURE, ONE-PIECE RIGID ALUMINUM EXTRUSION, SMOOTH WHITE EXTRUDED FROSTED LENS WITH HEX CELL LOUVER, FINISH: WHITE
C	ORACLE LIGHTING	O1S-CM-LED-4-S-2-1000L-HEX-BK-DIM10-120-30K-90-WH	16.4W / 3000K / 2000 LUMENS	4" W x 2'-0" L x 4.81" H	SIMILAR TO TYPE B EXCEPT 2' LENGTH.
D	AFX INC	KNLU22RB	11.8W / 3000K / 955 LUMENS	3" W x 22" L x 5/8" H	SURFACE MOUNTED UNDER CABINET LIGHT FIXTURE, EXTRUDED ALUMINUM HOUSING, WHITE POLYCARBONATE LENS, 12" INTERCONNECT CORD AVAILABLE (XLLC12WH)
E	ORACLE LIGHTING	O1S-WD-LED-4-S-4-750L-HEX-BK-DIM10-120-30K-90-WH	26W / 3000K / 3000 LUMENS	4" W x 4'-0" L x 4.81" H	WALL MOUNTED 4" WIDE 4' LINEAR FIXTURE MOUNTED ABOVE SINK, ONE-PIECE RIGID ALUMINUM EXTRUSION, SMOOTH WHITE EXTRUDED FROSTED LENS WITH HEX CELL LOUVER, FINISH: WHITE
F	BEACON LIGHTING	VPW1-24L-25-35K8-2-120V-BLT-E	23W / 3000K / 3055 LUMENS	7.96" W x 4.92" H x 5.5" D	LOW PROFILE WALL MOUNTED EXTERIOR WALL PACK MICROSTRIKE OPTICS, TYPE 2 DISTRIBUTION, PROVIDE WITH EMERGENCY BATTERY, FINISH: TEXTURED BLACK



① Attic Lighting Plan
1/4" = 1'-0"

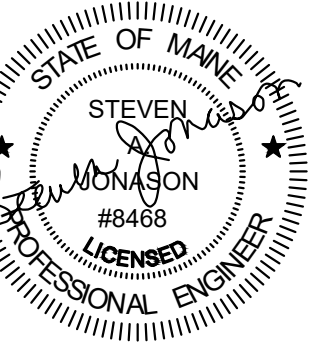
LIGHTING CONTROLS LEGEND

	MOTION SENSOR SWITCH - NX #LHMTS1
	MOTION SENSOR DIMMING SWITCH - NX #LHRDMMS2
	LOW VOLTAGE SWITCH - NX #NXSW2-00
	LOW VOLTAGE OCCUPANCY SENSOR - NX #OMNIDT2000



② Lighting Plan
1/4" = 1'-0"

STATE OF MAINE DOT
CREW QUARTERS
MEDWAY, MAINE
WIN 030331.00

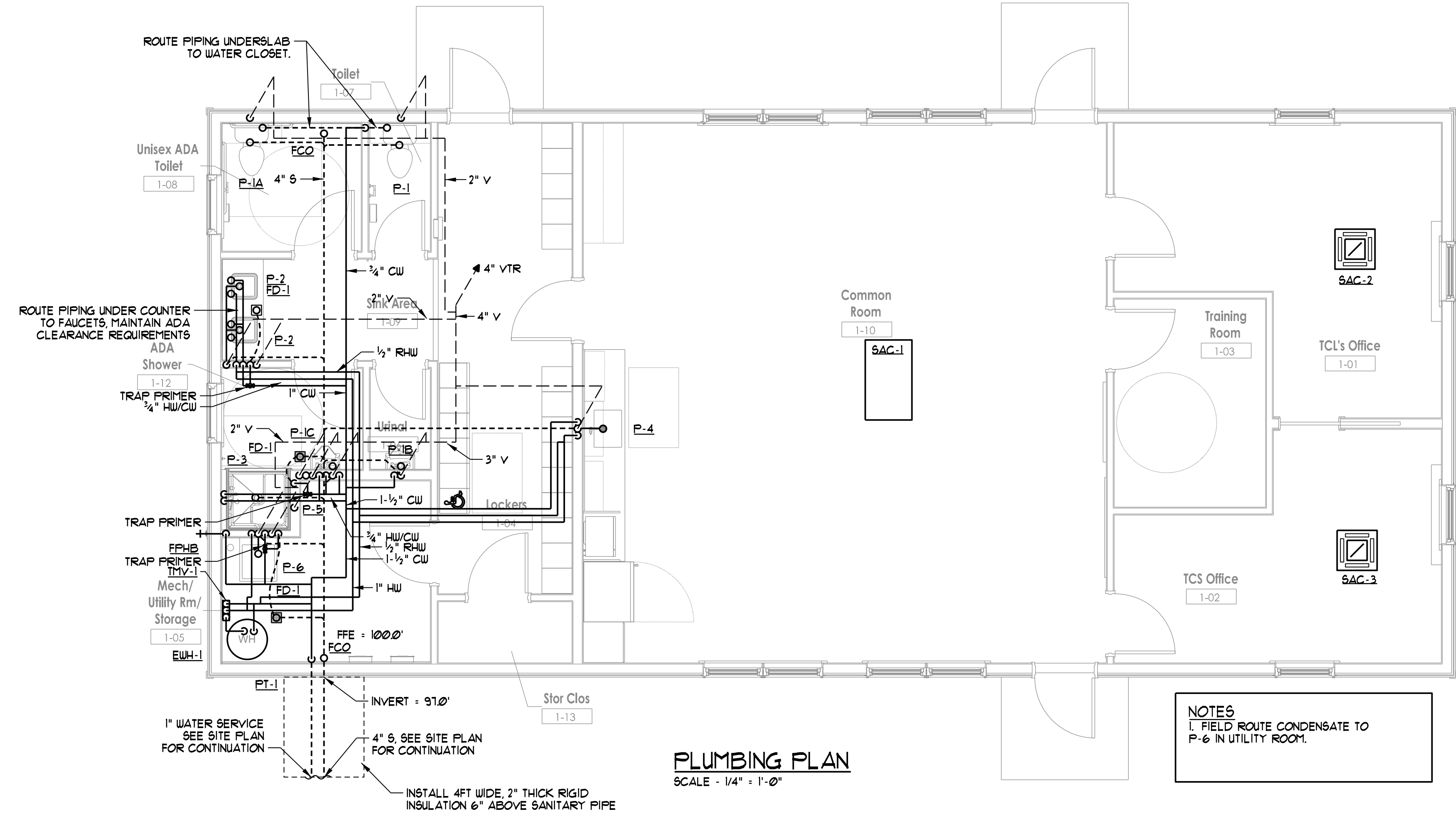


ME-8468	OCT 2025
PE NUMBER	DATE

DATE	OCT 2025
BY	MJA
FOR BID	

MDOT CREW QUARTERS
MEDWAY, MAINE
Lighting Plan

SHEET NUMBER



PLUMBING PLAN
SCALE - 1/4" = 1'-0"

NOTES
1. FIELD ROUTE CONDENSATE TO P-6 IN UTILITY ROOM.

FOR BID	BY	DATE	ME-10546	OCT. 2025
	JMV		PE NUMBER	OCT. 2025
				DATE

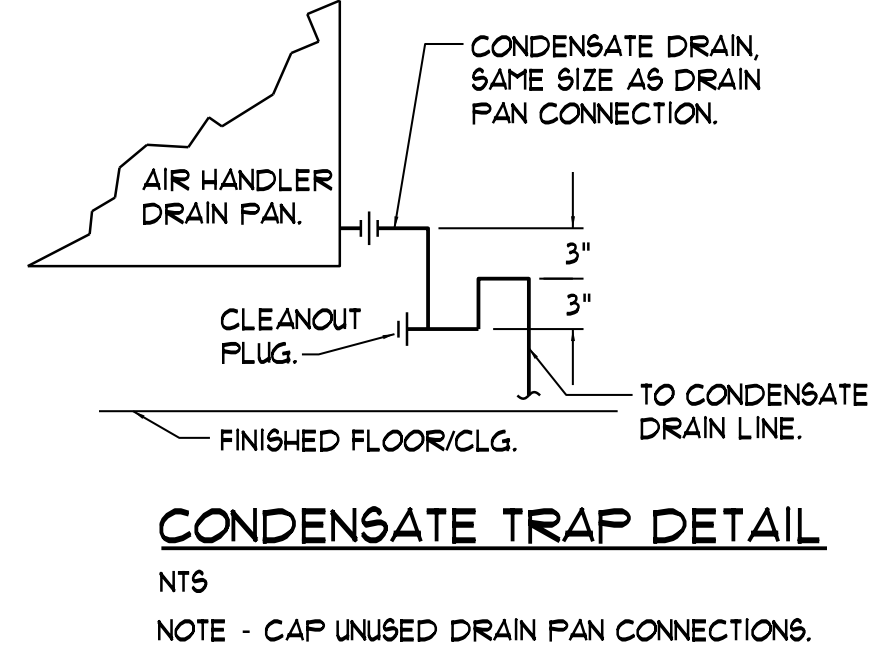
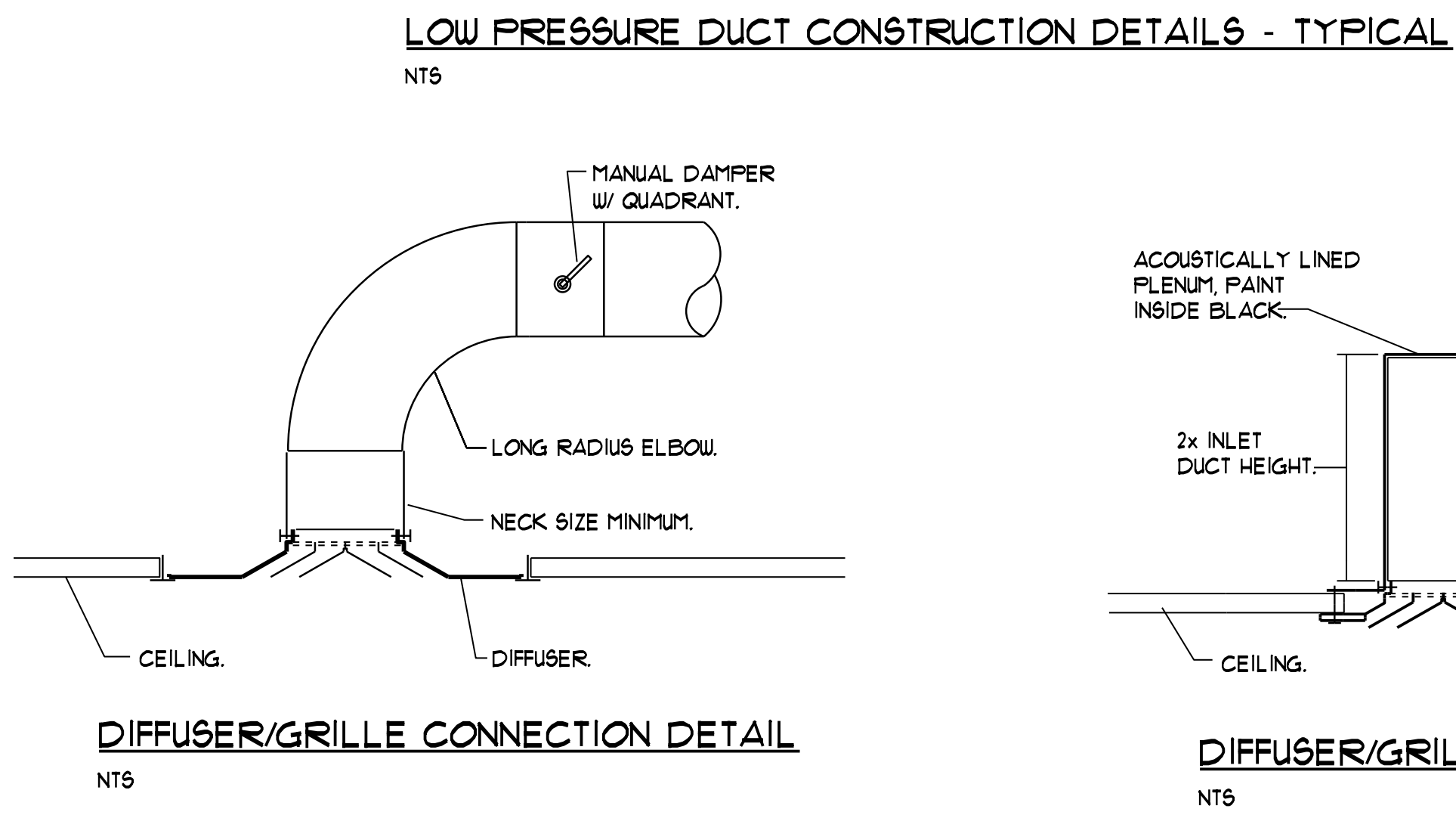
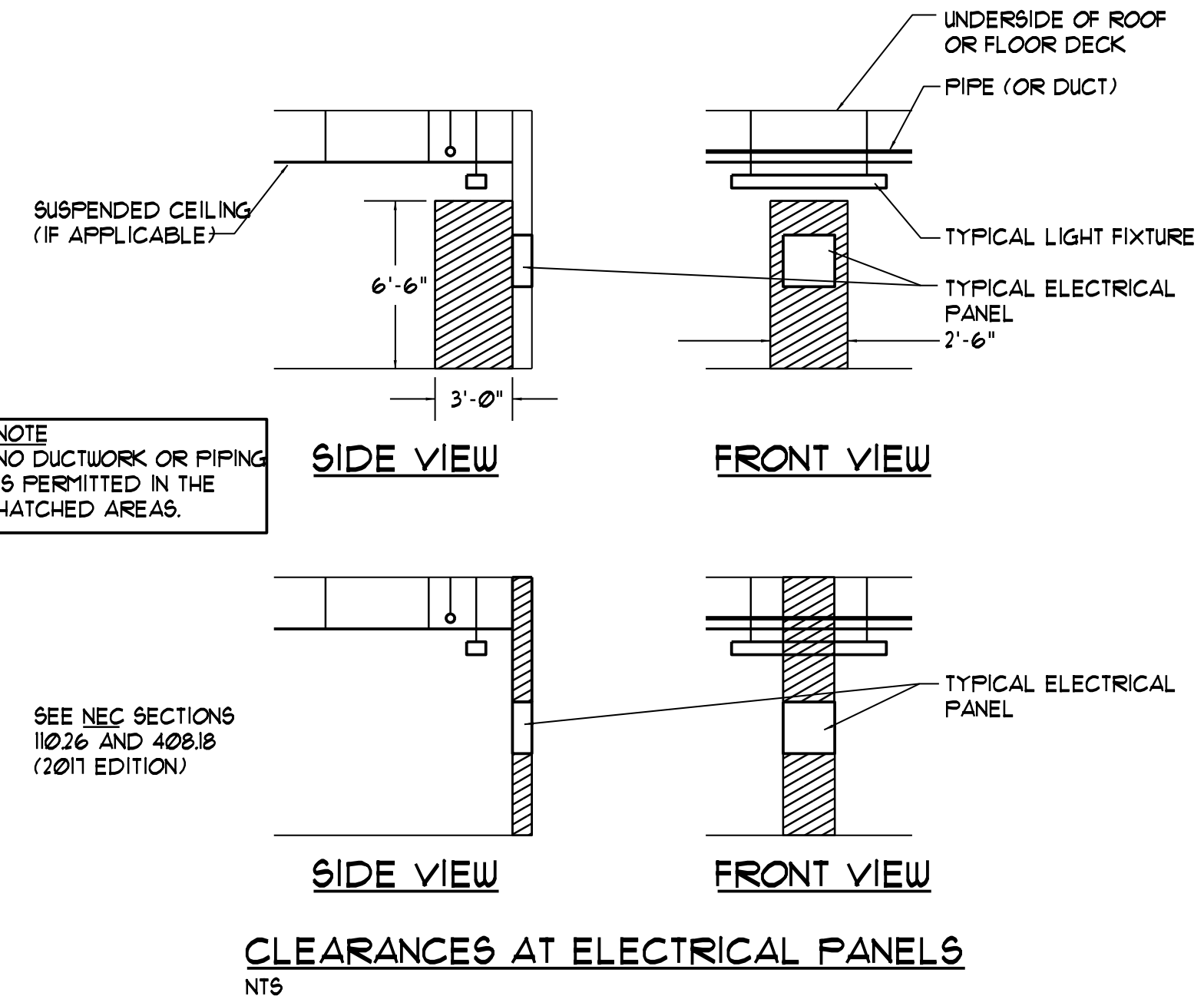
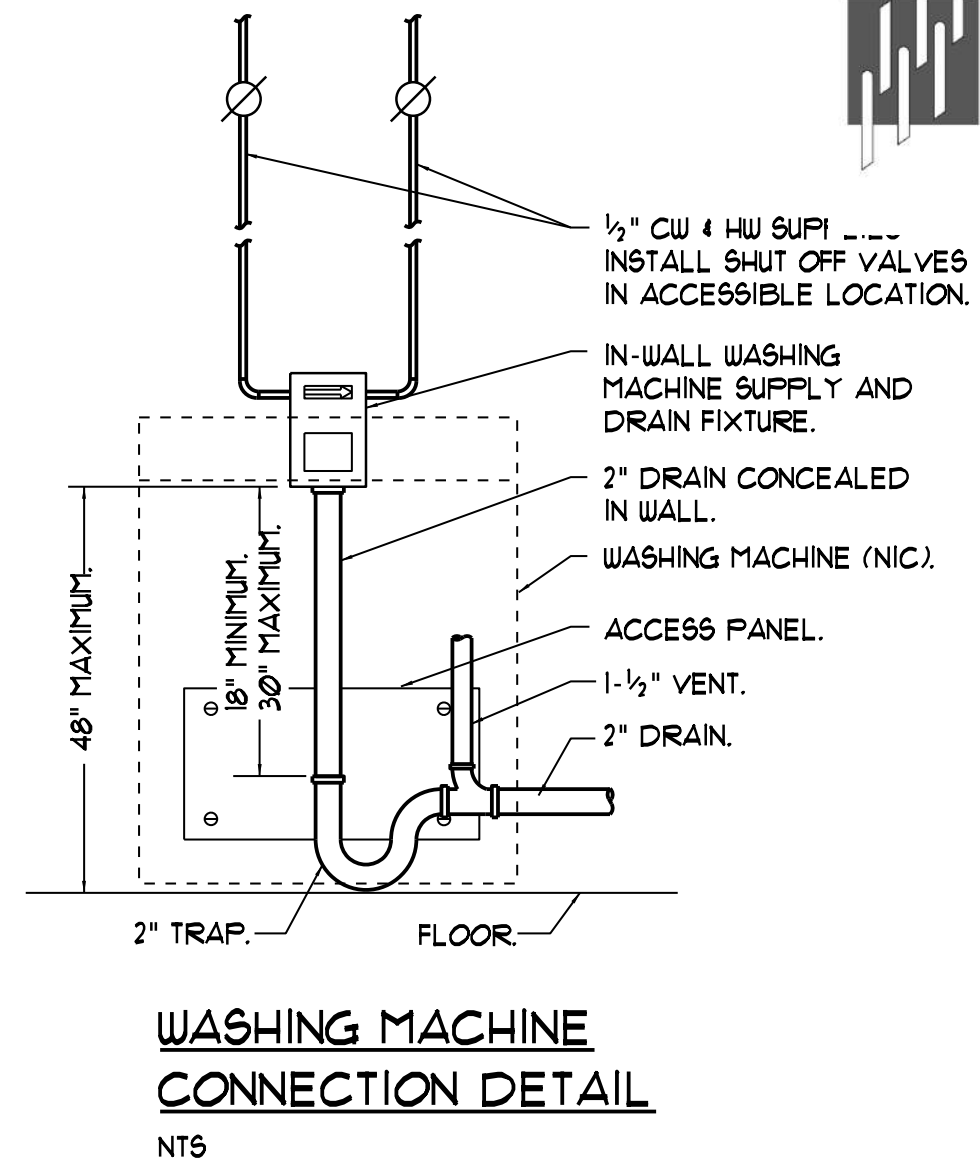
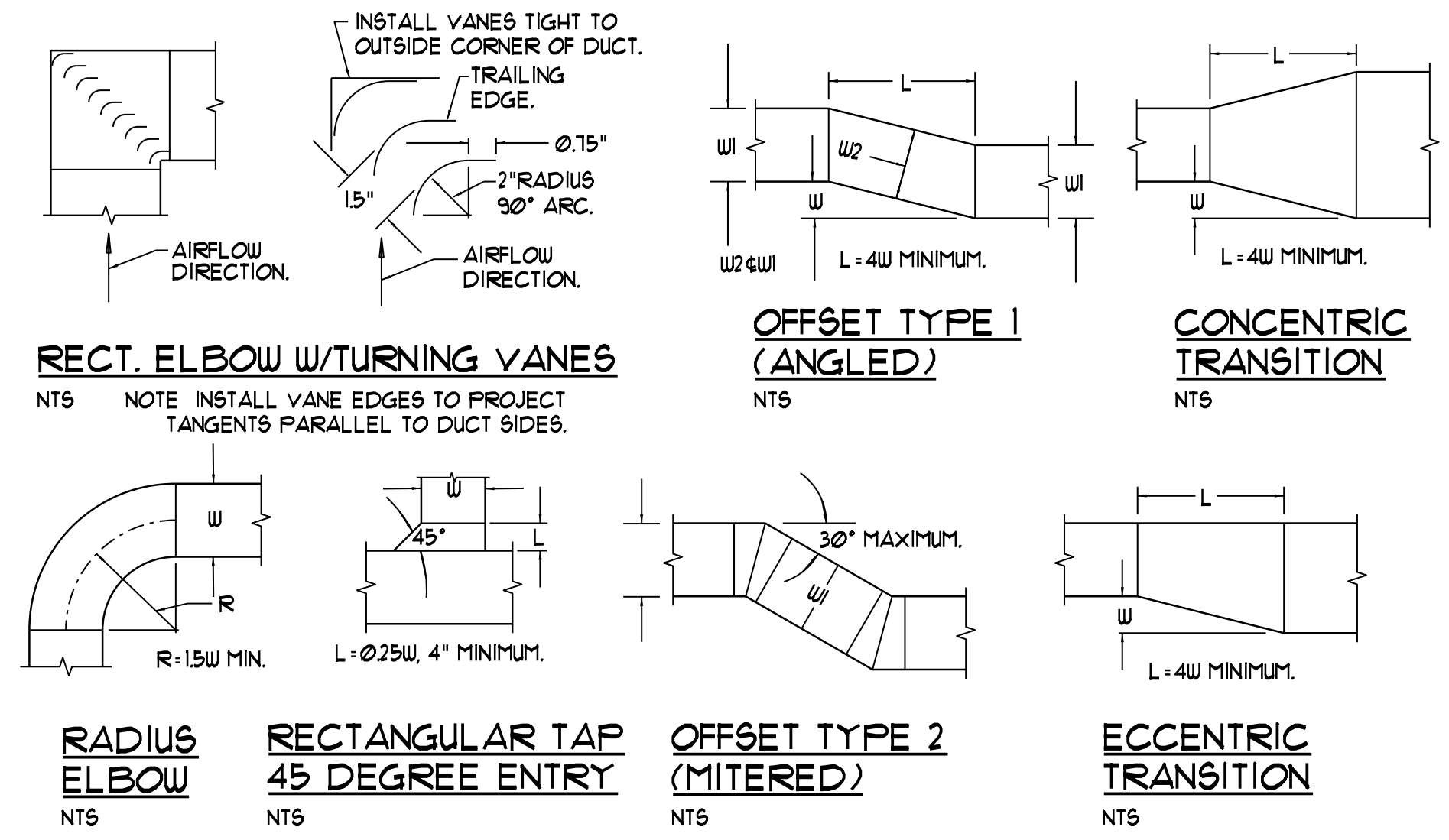
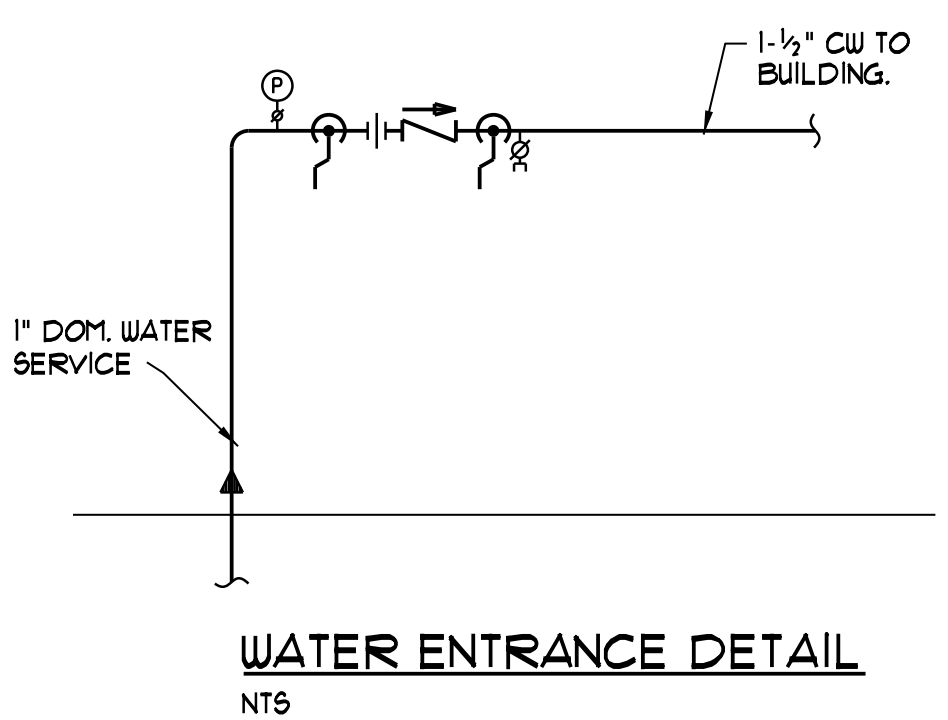
**MDOT CREW QUARTERS
MEDWAY, MAINE
PLUMBING PLAN**

SHEET NUMBER

DATE	OCT. 2025
BY	JIMV
FOR BID	
ME-10546	PE NUMBER
	OCT. 2025
	DATE

MDOT CREW QUARTERS
MEDWAY, MAINE
MECHANICAL DETAILS
AND LEGEND

SHEET NUMBER



MECHANICAL AND PLUMBING SYMBOLS AND ABBREVIATIONS LEGEND

NOTE - USE SYMBOLS AND ABBREVIATIONS AS APPLICABLE FOR THIS MECHANICAL DRAWING SET. SOME SYMBOLS AND ABBREVIATIONS IN THIS LEGEND MAY NOT APPLY.

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
CA	COMPRESSED AIR PIPING (CA)	TV	TEST OR SENSOR W/ TAMPERPROOF GUARD	B	BOILER TAG	EWB	ENTERING WET BULB	LB	POUNDS	RPZ	REDUCED PRESSURE ZONE
C	CONDENSATE DRAIN PIPING (C)	TV	MANUAL AIR VENT	BD	BYPASS DAMPER TAG	EWH	ELECTRIC WATER HEATER TAG	LD	LINEAR DIFFUSER TAG	RR	RETURN REGISTER TAG
CTR	COOLING TOWER RETURN PIPING (CTR)	NT	NOTE TAG (NUMBER)	BFP	BACKFLOW PREVENTER TAG	EWT	ENTERING WATER TEMPERATURE	LT	LOW TEMPERATURE HOT WATER	RTU	ROOM TEMPERATURE SENSOR
CTS	COOLING TOWER SUPPLY PIPING (CTS)	AT	AIR DEVICE TAG (LETTER) WITH CFM	BHP	BRAKE HORSEPOWER	EXG	EXISTING	LRA	LOCKED ROTOR AMPS	RV	RELIEF VALVE
CWR	CHILLED WATER RETURN PIPING (CWR)	RT	ROOM NUMBER	BTUH	BRITISH THERMAL UNITS PER HOUR	EXH	EXHAUST	LUCCO	LOW WATER CUTOUT	RWL	RAINWATER LEADER
CWS	CHILLED WATER SUPPLY PIPING (CWS)	TV	TURNING VANES	CBD	COUNTER BALANCED DAMPER	FC	FLEXIBLE CONNECTION	LWT	LEAVING WATER TEMPERATURE	SA	SUPPLY AIR
FOR	FUEL OIL RETURN PIPING (FOR)	MD	DUCT W/MANUAL DAMPER	CC	COOLING COIL TAG	FCO	FLOOR CLEANOUT	MAX	MAXIMUM	SAN	SANITARY (DRAIN & WASTE)
FOS	FUEL OIL SUPPLY PIPING (FOS)	FC	DUCT W/FLEXIBLE CONNECTION (FC)	CFM	CUBIC FEET PER MINUTE	FD	FIRE DAMPER	MBH	THOUSANDS OF BTU PER HOUR	SD	SMOKE DAMPER
G	GAS PIPING (G)	LD	LAGGED DUCT	CHLR	CHILLER TAG	FD	FLOOR DRAIN TAG	MCA	MINIMUM CIRCUIT AMPACITY	SEER	SEASONAL ENERGY EFFICIENCY RATIO
HWR	HOT WATER RETURN PIPING (HWR)	CO	DUCT W/ACOUSTIC LINING	CO	CLEANOUT	FLA	FULL LOAD AMPS	MIN	MINIMUM	SF	SUPPLY FAN
HWS	HOT WATER SUPPLY PIPING (HWS)	CT	DUCT W/SQUARE-TO-ROUND TRANSITION	CONV	CONVECTOR TAG	FOR	FUEL OIL RETURN	NC	NOISE CRITERION	SG	SUPPLY GRILLE TAG
RL	REFRIGERANT LIQUID PIPING (RL)	CUH	FLEXIBLE DUCT	CT	CIRCUIT TAG	FOS	FUEL OIL SUPPLY	NTS	NOT TO SCALE	SP	STATIC PRESSURE
RG	REFRIGERANT GAS PIPING (RG)	CP	MOTOR OPERATED DAMPER	CT	CIRCUIT TAG	FPFB	FROST PROOF HOSE BIBB	OA	OUTSIDE AIR	SP	SUMP PUMP TAG
SD	SANITARY PIPING BELOW FLOOR (SAN)	CFM	AIRFLOW OUT	CT	CIRCUIT TAG	FFM	FEET PER MINUTE	OPD	OPPOSED BLADE DAMPER	SR	SUPPLY REGISTER TAG
SD	SANITARY PIPING ABOVE FLOOR (SAN)	CI	AIRFLOW IN	Cv	VALVE COEFFICIENT	FS	FLOOR SINK TAG	OBD	OUTSIDE DIAMETER	SQFT	SQUARE FEET
SV	SANITARY VENT PIPING	CD	FIRE DAMPER	CW	COLD WATER	FT	FEET	O.D.	TEMPERATURE DIFFERENTIAL	TEMP	TEMPERATURE
RWL	RAINWATER LEADER ABOVE SLAB (RWL)	CHWS/R	ROUND OR FLAT OVAL DUCT DOWN	DB	DRY BULB	FTR	FINTUBE RADIATION TAG	OED	OPEN ENDED DUCT	TEMP	TEMPERATURE
CW	COLD WATER PIPING (CW)	DB	ROUND OR FLAT OVAL DUCT UP	dB RE	DECIBELS RELATIVE TO	GA	GAGE	OFRUL	OVERFLOW RAINWATER LEADER	TCF	TEMPERATURE CONTROL PANEL
HW	HOT WATER PIPING (HW)	DC	SUPPLY DIFFUSER	DC	DOUBLE CHECK	GAL	GALLONS	OFUH	OIL FIRED WATER HEATER TAG	TMV	THERMOSTATIC MIXING VALVE TAG
RHW	RECIRCULATED HOT WATER PIPING (RHW)	DCA	RETURN GRILLE	DCA	DOUBLE CHECK ATMOSPHERIC	GFH	GAS FIRED WATER HEATER TAG	OFRD	OVERFLOW ROOF DRAIN	TSP	TOTAL STATIC PRESSURE
PC	PIPE CAP	DEG F	STEAM TRAP	DEG F	DEGREES FAHRENHEIT	GPH	GALLONS PER HOUR	OPD	OVERCURRENT PROTECTIVE DEVICE	TYP	TYPICAL
DF	DIRECTION OF FLUID FLOW	DIA	WATER HAMMER ARRESTOR	DIA	DIAMETER	GPM	GALLONS PER MINUTE	P	PLUMBING FIXTURE TAG	UH	UNIT HEATER TAG
EU	ELBOW UP	DN		DN	DOWN IN WALL	GUH	GAS UNIT HEATER TAG	PENETN	PENETRATION	UNO	UNLESS NOTED OTHERWISE
ED	ELBOW DOWN	EA		EA	EXHAUST AIR	HC	HEATING COIL TAG	FF	PADDLE FAN TAG	VAV	VARIABLE AIR VOLUME BOX TAG
TT	PIPE TEE UP	EAT		EAT	ENTERING AIR TEMPERATURE	HP	HORSEPOWER	PSIA	POUNDS PER SQUARE INCH ABSOLUTE	VB	VACUUM BREAKER
TD	PIPE TEE DOWN	EDB		EDB	ENTERING DRY BULB	HRV	HEAT RECOVERY VENTILATOR TAG	PSIG	POUNDS PER SQUARE INCH GAGE	VFD	VARIABLE FREQUENCY INVERTER DRIVE
R	PIPE REDUCER	EDC		EDC	ELECTRIC DUCT COIL TAG	HW	HOT WATER	PVC	POLYVINYL CHLORIDE (PIPE)	VTR	VENT THRU ROOF
W	PIPE WITH GUIDE	EER		EER	ENERGY EFFICIENCY RATIO	HWS/R	HOT WATER SUPPLY AND RETURN	RA	RETURN AIR	V/PH/Hz	VOLTS/PHASES/HERTZ
WA	PIPE WITH ANCHOR	EP		EP	EXHAUST FAN TAG	I-B-R	INSTITUTE OF BOILER AND RADIATOR MANUFACTURERS	RD	ROOF DRAIN	WB	WET BULB
BV	BUTTERFLY VALVE	EG		EG	EXHAUST GRILLE TAG	IFWH	INDIRECT FIRED WATER HEATER TAG	RDE	RECOMMENDED DUAL ELEMENT FUSE AMPS	WCO	WALL CLEANOUT
GA	GAS 4 Y GATE VALVE	ER		ER	EXHAUST REGISTER TAG	IN	INCHES	RFM	RADIANT FLOOR MANIFOLD TAG	WG	WATER GAGE
BFP	BACKFLOW PREVENTER (BFP)	ESP		ESP	EXTERNAL STATIC PRESSURE	IV	INTAKE VENT TAG	RG	RETURN GRILLE TAG	WPD	WATER PRESSURE DROP
CV	CHECK VALVE	ET		ET	EXPANSION TANK TAG	L	LOUVER TAG	RHW	RECIRCULATED HOT WATER	WSA	WIRE SIZING AMPS
AV	BALANCING VALVE (ADJUSTABLE)					LAT	LEAVING AIR TEMPERATURE	RLA	RUNNING LOAD AMPS	WTD	WATER TEMPERATURE DROP
AFV	AUTOMATIC FLOW CONTROL VALVE							RFM	REVOLUTIONS PER MINUTE	W	WATER
								RPS	REVOLUTIONS PER SECOND	WITH	WITH
										ZD	ZONE DAMPER TAG

DATE	OCT. 2025
BY	JMV
FOR BID	
ME-10546	
PE NUMBER	
OCT. 2025	
DATE	

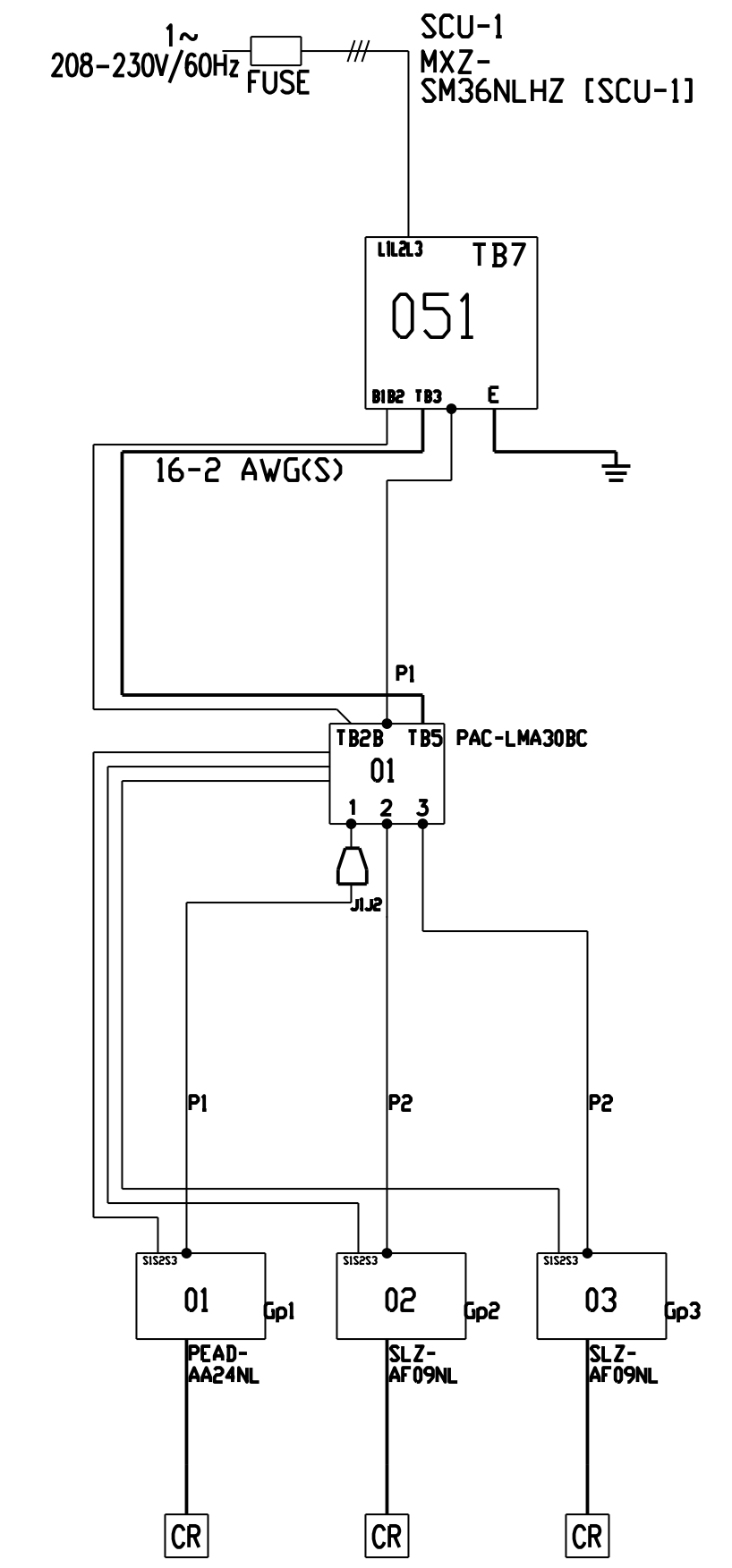
DIAGRAM DISPLAY	SYMBOL DESCRIPTION	CONT.No	PAGE
---	POWER WIRE		
---	CONTROL WIRE		
---	REF. PIPE		

CITY MULTI SYSTEM SCHEMATIC DWG.

This drawing is schematic in nature. Final routing of piping & wiring shall be determined by the installing contractor and/or designer of record. Additional refrigerant charge is needed depending on the size and length of extended piping. Please refer the amount of pre-charge and the formula of calculation which is mentioned on the data book.
1.25mm²(16 AWG) : 1.25mm²(16 AWG) or more. 0.75mm²(20 AWG) : between 0.5mm²(24 AWG) and 0.75mm²(20 AWG).

PIPING AND CONTROLS

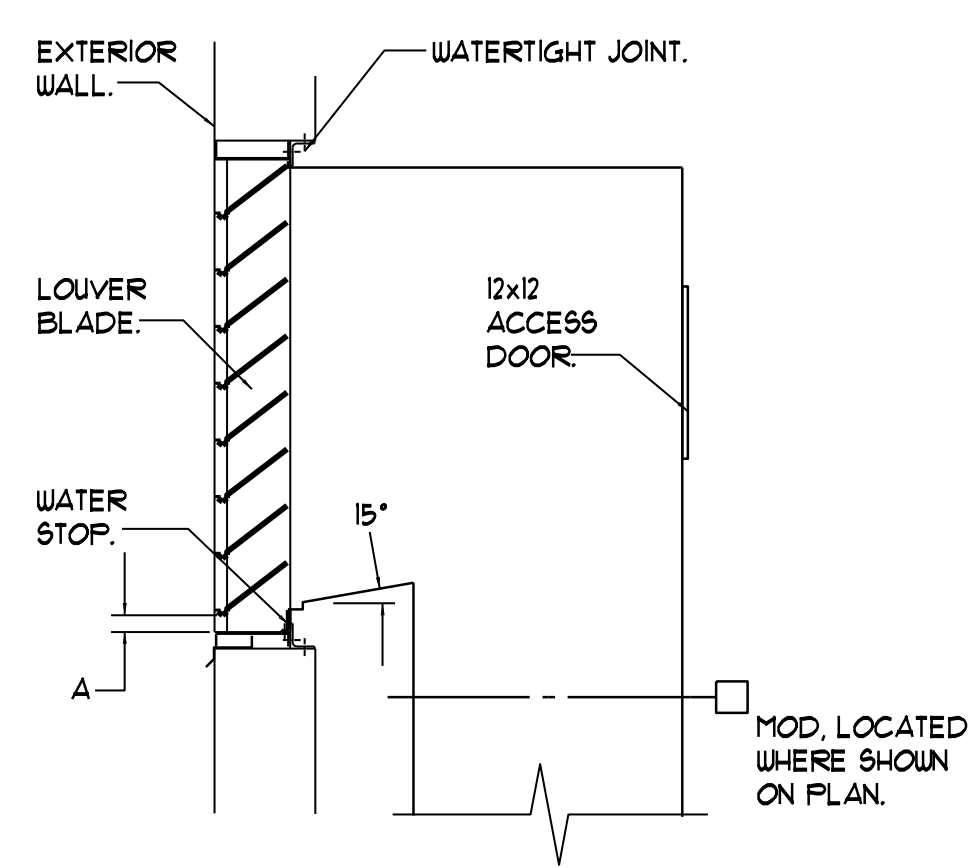
SYMBOL	BRANCH PIPE MODEL NAME
J1	PAC-S076RJ-E
J2	PAC-493PI
SYMBOL	LIQUID PIPE / GAS PIPE SIZE
P1	3/8 / 5/8
P2	1/4 / 3/8
SYMBOL	MODEL NUMBER
CR	PC-Y1532AU-J



Diamond System Builder
s.w: 5.9.0.18
d.b: 5.9.0.12
6/2/2025
1:59 PM

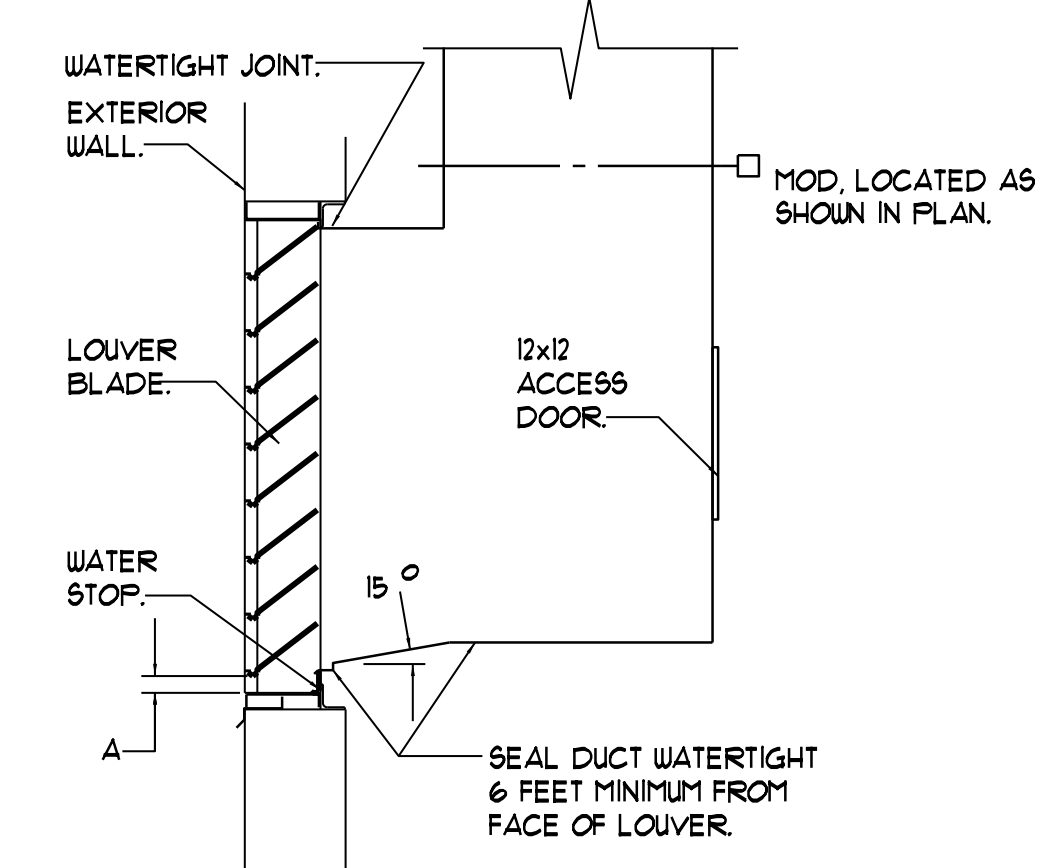
SAC-1 SAC-2 SAC-3

REMARKS
Comments:



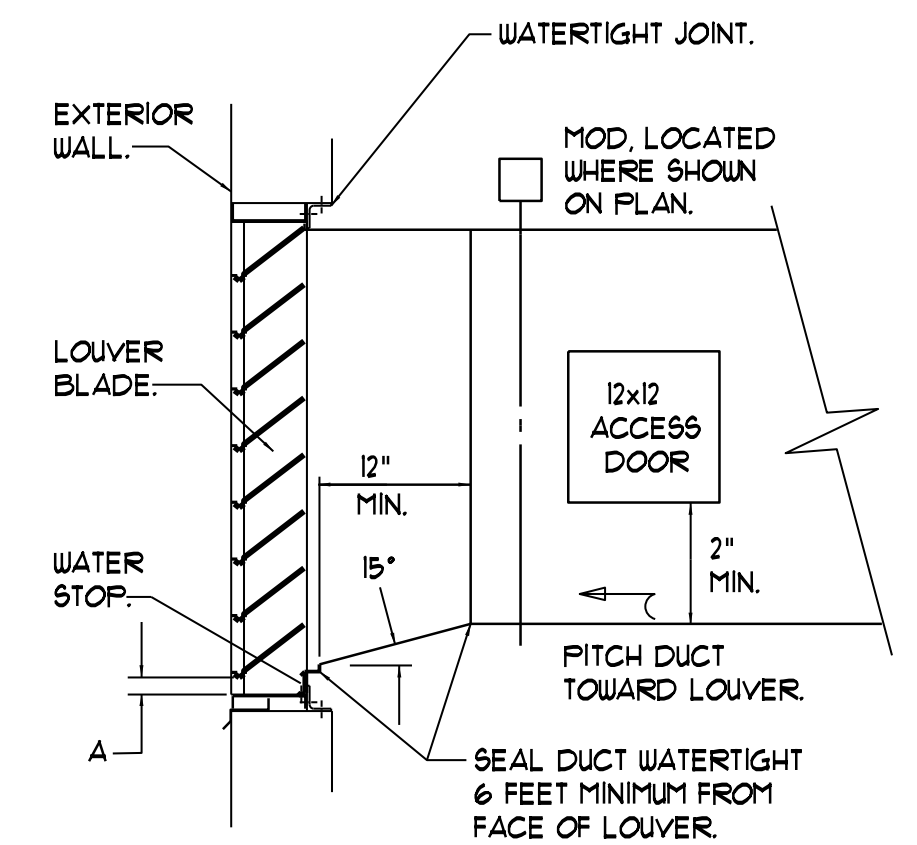
LOUVER DETAIL WITH DUCT FROM BELOW

NTS
NOTE IF DIMENSION "A" IS LESS THAN 1 INCH SEE MODIFIED LOUVER DETAIL THIS SHEET.



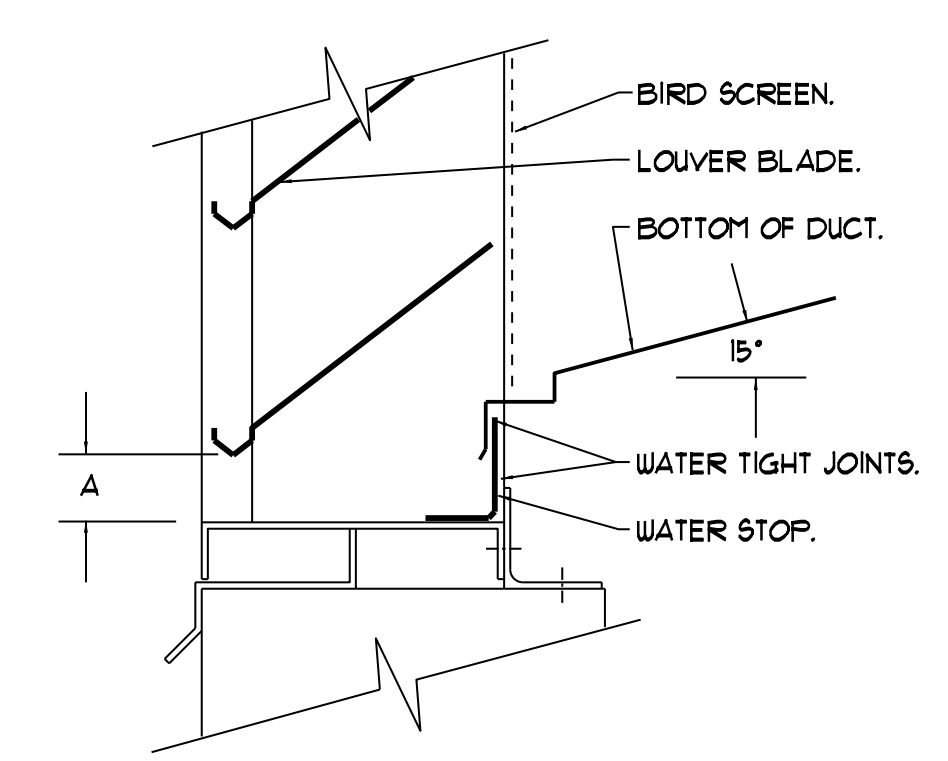
LOUVER DETAIL WITH DUCT FROM ABOVE

NTS
NOTE IF DIMENSION "A" IS LESS THAN 1 INCH SEE MODIFIED LOUVER DETAIL THIS SHEET.



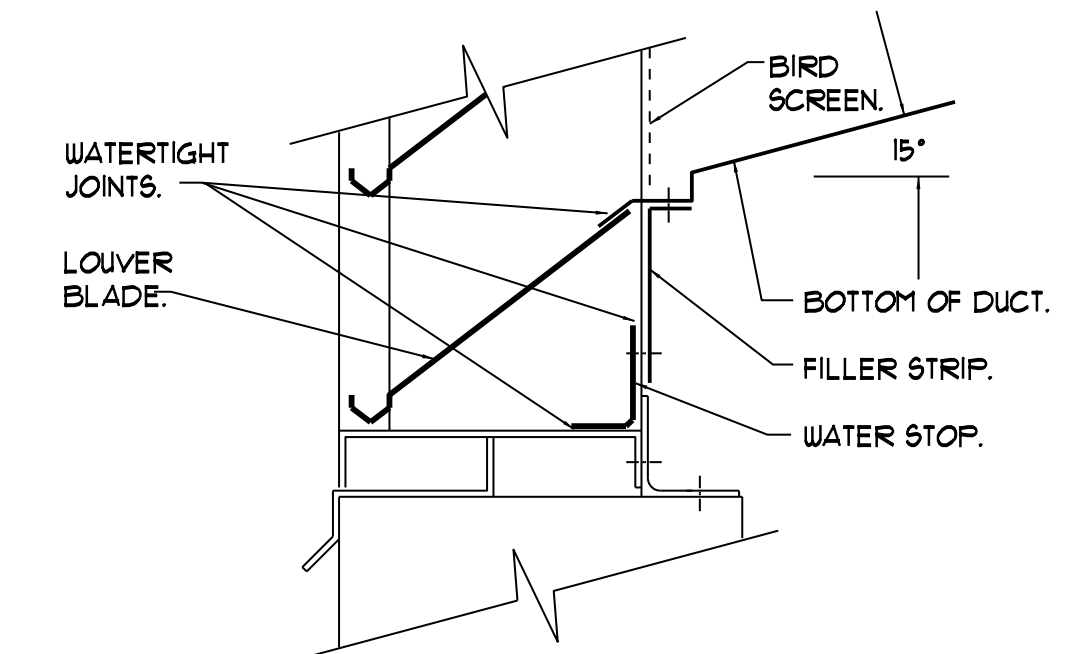
LOUVER DETAIL WITH HORIZONTAL DUCT

NTS
NOTE IF DIMENSION "A" IS LESS THAN 1 INCH SEE MODIFIED LOUVER DETAIL THIS SHEET.



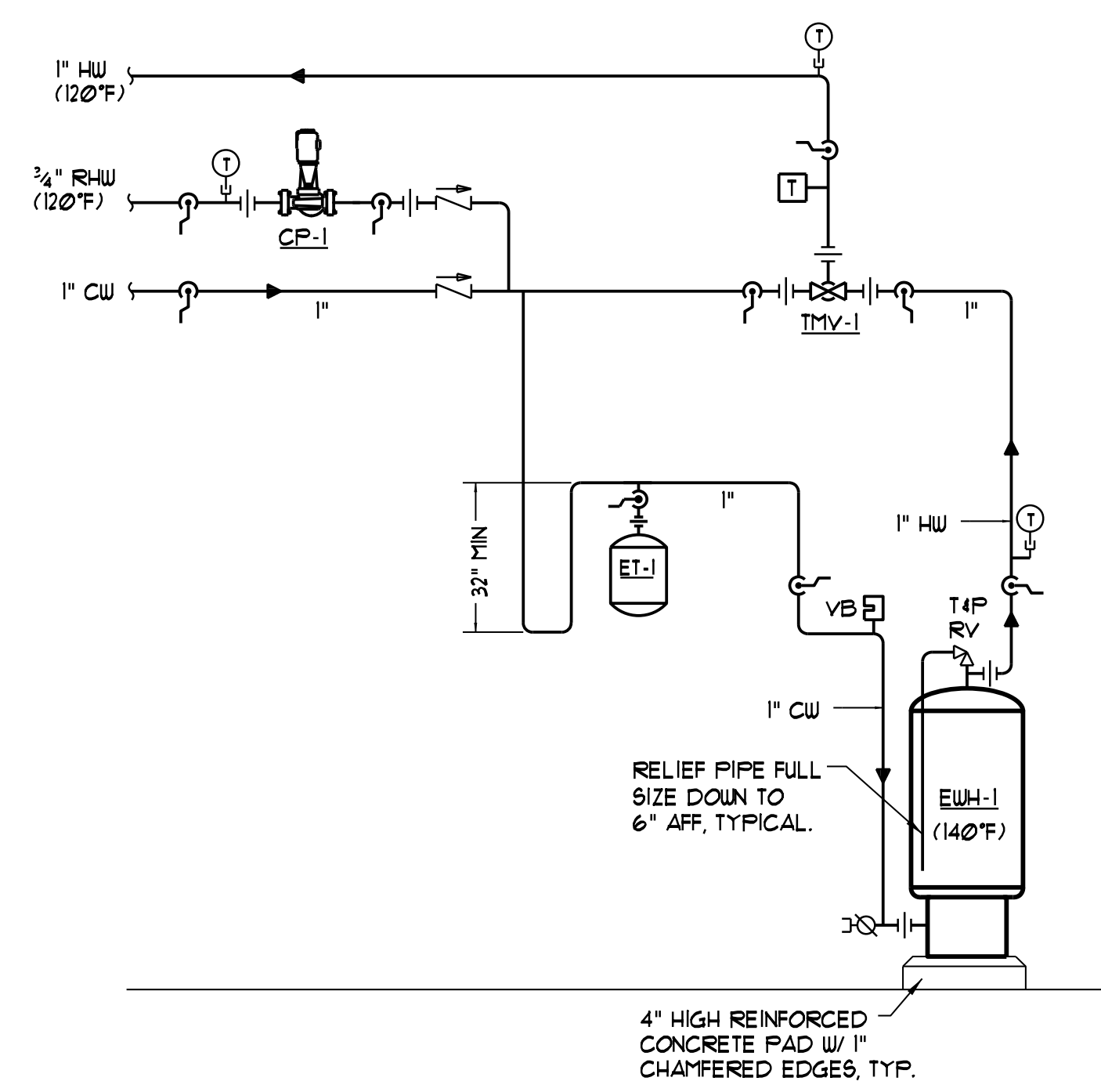
LOUVER CONNECTION DETAIL

NTS
NOTE TYPICAL FOR LOUVERS AND BLOCK VENTS. IF DIMENSION "A" IS LESS THAN 1 INCH SEE MODIFIED LOUVER DETAIL AT RIGHT (LOUVERS ONLY).



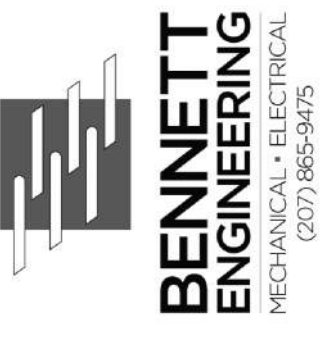
MODIFIED LOUVER DETAIL

NTS

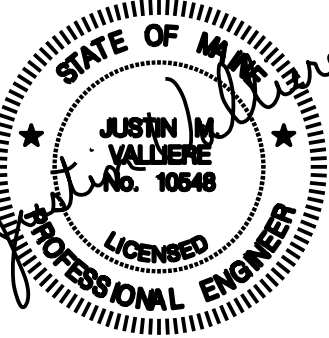


DOMESTIC HOT WATER PIPING SCHEMATIC

NTS



STATE OF MAINE DOT
CREW QUARTERS
MEDWAY, MAINE
WIN 030331.00



DATE	OCT. 2025
BY	JMV
FOR BID	
ME-10548	PE NUMBER
	OCT. 2025
	DATE

MDOT CREW QUARTERS
MEDWAY, MAINE
MECHANICAL
SCHEDULES

SHEET NUMBER

HYBRID HEAT PUMP WATER HEATER PERFORMANCE SCHEDULE

TAG	STORAGE (GAL)	FIRST HOUR RATING (GAL)	DHW STORAGE TEMP (deg F)	ELECTRICAL REQUIREMENTS		BASIS OF DESIGN: A.O. SMITH	
				WATTS	V/PH/Hz	SERVICE	MODEL
EWH-1	46.0	65.0	140.0	4500	240/1/60	DOM. HW	HPTA-50

THERMOSTATIC MIXING VALVE PERFORMANCE SCHEDULE

TAG	FLOW RATE (GPM)	INLET CONNECTION (INCHES)	OUTLET CONNECTION (INCHES)	W.P.D. (PSIG)	SETPOINT (DEG F)	PROVIDE SPARE CARTRIDGE (Y) OR (N)	BASIS OF DESIGN: SYMMONS	
							ARRANGEMENT	MODEL
TMV-1	7.0	3/4"	3/4"	10.0	115	-	WALL	7-230

PUMP PERFORMANCE SCHEDULE

TAG	FLOW RATE (GPM)	HEAD (FT.WG)	RPM	Impeller Dia	Eff %	ELECTRICAL REQUIREMENTS				BASIS OF DESIGN: TACO			
						HP	BHP	VFD	AMPS	V/PH/Hz	SERVICE	ARRANGEMENT	MODEL
CP-1	1.0	15.0	3250	-	-	1/8	-	N	1.4	115/1/60	DHW RECIRC	CARTRIDGE	009SS

1. CP-1 SHALL BE STAINLESS STEEL CONSTRUCTION

EXPANSION TANK PERFORMANCE SCHEDULE

TAG	TANK VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	MIN ACCEPT. VOLUME (GAL)	MAX. WORK'G TEMPERATURE (DEG F)	MAX. WORK'G PRESSURE (PSIG)	WET WEIGHT (LBS)	BASIS OF DESIGN: TACO		
							MOUNTING	SERVICE	MODEL
ET-1	6.6	4.0	1.9	240	150	90	FLOOR	DOMESTIC HW	PAX-25

NOTE: ALL TANKS SHALL BE ASME RATED CONSTRUCTION.

PRESSURE TANK PERFORMANCE SCHEDULE

TAG	TANK VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	MIN ACCEPT. VOLUME (GAL)	MAX. WORK'G TEMPERATURE (DEG F)	MAX. WORK'G PRESSURE (PSIG)	WET WEIGHT (LBS)	BASIS OF DESIGN: AMTROL		
							MOUNTING	SERVICE	MODEL
PT-1	158.0	102.0	102.0	240	125	1950	FLOOR	DOMESTIC WATER	WX-451C

NOTES: ALL TANKS SHALL BE ASME RATED CONSTRUCTION.
PRESSURIZE TANK TO SYSTEM PRESSURE UNDER NO FLOW CONDITIONS

ELECTRIC WALL HEATER SCHEDULE

TAG	MOUNTING	WATTS	MAX BTUH	CFM	ELECTRICAL POWER			MTG HT AFF (IN)	BASIS OF DESIGN: MESTEK QMARK		
					AMPS	MOCP	V/PH/Hz		LOCATION	MODEL	REMARKS
WH-1	RECESSED	1,500	5,100	50	12.5	-	120/1/60	12"	MULTIPLE	GFR1500T2F	NOTES: NONE
WH-2	SURFACE	1,500	5,100	50	12.5	-	120/1/60	12"	MULTIPLE	GFR1500T2F	NOTES: ALL

NOTES:
1. PROVIDE WITH SURFACE MOUNTING FRAME.
2. PROVIDE WITH OPTIONAL THERMOSTAT

ELECTRIC DUCT HEATING COIL PERFORMANCE SCHEDULE

TAG	AIRFLOW (CFM)	MAX A.P.D. (IN.WG.)	DIMENSION (WxH, INCHES)	VELOCITY (FPM)	E.A.T. (DEG F)	L.A.T. (DEG F)	ELECTRICAL REQUIREMENTS				BASIS OF DESIGN: RENEWAIRE		
							KW	V/PH/Hz	MCA	MOPD	SERVICE	MODEL	NOTES
EDC-1	420	0.05	10"x10"	605	45.0	75.0	4.0	240/1/60	20.8	25.0	ERV-1 HEAT	EK	ALL

NOTES:
1. PROVIDE WITH SCR CONTROLLER w/THERMOSTAT AND SENSOR, AIRFLOW PROVING SWITCH, FAN INTERLOCK AND DISCONNECT.
2. REFER TO MECHANICAL PLANS FOR CONTROL BOX OFFSET REQUIREMENTS.

MULTI-SPLIT HEAT PUMP OUTDOOR UNIT PERFORMANCE SCHEDULE

TAG	NOMINAL COOLING (MBH)*	NOMINAL HEATING (MBH)*	CORRECTED COOLING (MBH)**	CORRECTED HEATING (MBH)**	EER2 / COP	REFRIGERANT		MINIMUM COOLING TEMP(DEG F)	MINIMUM HEATING TEMP(DEG F)	FOOTPRINT DIM (INCHES) (HxWxD)	OPERATING WEIGHT (LBS)	ELECTRICAL REQUIREMENTS			REFRIGERANT LINES		SOUND (DBA)	BASIS OF DESIGN: MITSUBISHI	
						REFRIGERANT	CHARGE (LBS)					MCA	MOCP	V/PH/Hz	LIQUID (IN)	GAS (IN)		SERVICE	MODEL
SCU-1	36.0	42.0	34.8	39.7	12.7 / 3.7	R-454B	22.6	23.0	-13.0	53 x 42 x 14	300	51.0	86.0	230/1/60	3/8	5/8	53	BUILDING	MXZ-SM36NLHZ

* NOMINAL HEATING AND COOLING AT AHRI CONDITIONS OF 80°F DB / 67°F WB (INDOOR) AND 95°F OUTDOOR FOR COOLING AND 70°F DB / 60°F WB (INDOOR AND 47°F OUTDOOR FOR HEATING
** CORRECTED COOLING AS PART OF THE SPECIFIC COMPLETE SYSTEM INCLUDING LINE LENGTHS AND AT OUTDOOR CONDITIONS OF 95°F DB AND INDOOR CONDITIONS OF 75°F DB / 63.9°F WB
*** CORRECTED HEATING AS PART OF THE SPECIFIC COMPLETE SYSTEM INCLUDING LINE LENGTHS AND WITH A 5% DEFROST AND AT OUTDOOR CONDITIONS OF -13.0°F DB AND INDOOR CONDITIONS OF 70°F DB
1. PROVIDE AND INSTALL WITH STAND AND SNOW/HAIL GUARDS.

SPLIT - SYSTEM HEAT PUMP INDOOR UNIT PERFORMANCE SCHEDULE (FIRST & SECOND FLOORS)

TAG	CORRESPONDING OUTDOOR UNIT	NOMINAL COOLING (MBH)*	NOMINAL HEATING (MBH)*	CORRECTED COOLING (MBH)**	CORRECTED HEATING (MBH)**	MAX AIRFLOW (CFM)	COND. DRAIN (IN)	REFRIGERANT PIPING		SOUND RATING (DB)	WEIGHT (LBS)	ELECTRICAL REQUIREMENTS				BASIS OF DESIGN: MITSUBISHI		
								LIQUID (IN)	GAS (IN)			MCA	MOCP	V/PH/Hz	POWERED FROM OUTDOOR UNIT	SERVICE	ARRANGEMENT	MODEL
SAC-1	SCU-1	24.0	24.0	19.8	18.7	740	1-1/4"	3/8"	5/8"	35	70	1	15	208/1/60	YES	MEETING/TRAINING	CONCEALED DUCTED	PEAD-AA24NL
SAC-2		9.0	11.0	7.4	10.5	300	1-1/4"	1/4"	3/8"	31	36	1	15	208/1/60	YES	TCS OFFICE	4-WAY CEILING	SLZ-AF09NL
SAC-3		9.0	11.0	7.4	10.5	300	1-1/4"	1/4"	3/8"	31	36	1	15	208/1/60	YES	TCL OFFICE	4-WAY CEILING	SLZ-AF09NL

* NOMINAL HEATING AND COOLING AT AHRI CONDITIONS OF 80°F DB / 67°F WB (INDOOR) AND 95°F OUTDOOR FOR COOLING AND 70°F DB / 60°F WB (INDOOR AND 47°F OUTDOOR FOR HEATING
** CORRECTED COOLING AS PART OF THE SPECIFIC COMPLETE SYSTEM INCLUDING LINE LENGTHS AND AT OUTDOOR CONDITIONS OF 95°F DB AND INDOOR CONDITIONS OF 75°F DB / 63.9°F WB
*** CORRECTED HEATING AS PART OF THE SPECIFIC COMPLETE SYSTEM INCLUDING LINE LENGTHS AND WITH A 5% DEFROST AND AT OUTDOOR CONDITIONS OF -13.0°F DB AND INDOOR CONDITIONS OF 70°F DB
NOTE - PROVIDE ALL UNITS WITH CONDENSATE PUMPS

ENERGY RECOVERY VENTILATOR PERFORMANCE SCHEDULE

TAG	AIR STREAM	DUCT CONNECTIONS		UNIT AIRFLOW				ENERGY RECOVERY - WINTER					ENERGY RECOVERY - SUMMER					HEATING COIL	COOLING COIL	ELECTRICAL REQUIREMENTS			WEIGHT (LBS)	BASIS OF DESIGN: RENEWAIRE		NOTES
		ENTERING	LEAVING	CFM	E.S.P. (INWC)	T.S.P. (INWC)	HP	BHP	E.D.B (F)	E.W.B (F)	L.D.B (F)	L.W.B (F)	EFF. %	E.D.B (F)	E.W.B (F)	L.D.B (F)	L.W.B (F)			EFF %	V/PH/Hz	MCA		MOP	SERVES	
ERV-1	SUPPLY	END	END	420	0.5	--	0.23	0.23	-20.0	-20.5	45.1	37.1	72.6 SENS	89.0	73.0	78.9	67.5	72.6 SENS	240/1/60	2.6	15.0	175	BUILDING VENTILATION	HE07-JINV	ALL	
	EXHAUST	END	END	420	0.5	--	0.23	0.23	70.0	51.4	-	-	72.4 TOT	75.0	62.5	-	-	55.0 TOT								

NOTE:
1. PROVIDE WITH FUSED DISCONNECT, 2" MERV 13 FILTERS AND PREMIUM PACKAGED CONTROLS WITH ADJUSTABLE TIMCLOCK.

REGISTERS, GRILLES AND DIFFUSERS SCHEDULE

TAG	MAX CFM	MODULE SIZE W X H	NECK SIZE (INCHES)	MAX STATIC PRESSURE (IN. WC)	SOUND (NC)	ARRANGEMENT	BASIS OF DESIGN: PRICE INDUSTRIES	
							MODEL	REMARKS
A	60	-	6 x 6	0.02	15		H4002	NOTES: ALL
B	340	-	12 x 12	0.03	15		H4002	NOTES: ALL
AA	50	-	6 x 6	0.01	15		RHD	NOTES: ALL
BB	120	-	8 x 8	0.01	15		RHD	NOTES: ALL
CC	370	-	12 x 12	0.02	20		RHD	NOTES: ALL

NOTES:
1. PROVIDE ALL REGISTERS, GRILLES AND DIFFUSERS WITH OPPOSED BLADE DAMPERS

LOUVER PERFORMANCE SCHEDULE

TAG	AIRFLOW (CFM)	MODULE SIZE W X H	AIR VELOCITY (FPM)	FREE AREA (SQFT)	MAX STATIC PRESSURE (IN. WC)	BASIS OF DESIGN: RUSKIN		
						SERVICE	MODEL	REMARKS
L-1	420	16"x16"	575	0.73	0.1	ERV-1 INTAKE	ELF6375DX	NOTES: ALL
L-2	420	16"x16"	575	0.73	0.1	ERV-1 EXHAUST	ELF6375DX	NOTES: ALL

NOTES:

PLUMBING FIXTURE CONNECTION SCHEDULE

TAG	DESCRIPTION	SAN	VENT	CW	HW	FIXTURE MODEL
P-1	TT WATER CLOSET	3"	2"	1/2"	-	AMERICAN STANDARD CADET PRO W/BEMIS 1280SLOW SEAT
P-1A	ADA TT WATER CLOSET	3"	2"	1/2"	-	AMERICAN STANDARD CADET PRO W/BEMIS 1280SLOW SEAT
P-1B	WALL HUNG URINAL	2"	2"	3/4"	-	AMERICAN STANDARD WASHBROOK W/SLOAN ROYAL 186 0.125GPF FLUSH VALVE
P-1C	ADA WALL HUNG URINAL	2"	2"	3/4"	-	AMERICAN STANDARD WASHBROOK W/SLOAN ROYAL 186 0.125GPF FLUSH VALVE
P-2	ADA COUNTERTOP LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	AMERICAN STANDARD RONDALYN W/ MONTERREY 0.5GPM, 4" CENTERSET FAUCET
P-3	ADA 36" SHOWER	2"	1-1/2"	1/2"	1/2"	AQUATIC 1363BFRF W/ SEAT AND GRAB BARS, SYMMONS S-9603-PLR ADA SHOWER VALVE
P-4	ADA DOUBLE BOWL KITCHEN SINK	2"	2"	1/2"	1/2"	ELKAY ELUHAD191655PD W/ AMERICAN STANDARD COLONY PRO GOOSENECK FAUCET
P-5	WASHING MACHINE BOX	2"	2"	1/2"	1/2"	GUY GRAY #82048 W/WATER HAMMER ARRESTORS
P-6	UTILITY SINK	3"	2"	3/4"	3/4"	FIAT FL1 W/LEGS AND FIAT A1 FAUCET
FD-1	FLOOR DRAIN	3"	2"	-	-	WATTS FD-100A
FPHB	FREEZE PROOF HOSE BIB	-	-	3/4"	-	WOODFORD MODEL 65

NOTES:
1. MINIMUM SIZE OF BELOW SLAB SANITARY & VENT PIPING SHALL BE 2".
2. PROVIDE TRAP PRIMERS ON FLOOR DRAINS, CONNECT TO NEAREST FIXTURE.

ELECTRIC BASEBOARD PERFORMANCE SCHEDULE

TAG	OUTPUT (MBH)	LENGTH (FEET)	MTG. HT. AFF (IN)	ELECTRICAL REQUIREMENTS			BASIS OF DESIGN: MESTEK QMARK	
				AMPS	WATTS	V/PH/Hz	SERVICE	MODEL
EBB-1	4.2	5.0	-	10.4	1250	120/1/60	SUPPLEMENT HEAT	QMKC2515W
EBB-2	3.4	4.0	-	8.3	1000	120/1/60	SUPPLEMENT HEAT	QMKC2514W

PROVIDE WITH RELAY FOR USE AS SECOND STAGE HEAT WITH LOW VOLTAGE THERMOSTAT