

STATE OF MAINE DEPARTMENT OF TRANSPORTATION



ATHENS MAINTENANCE SALT BUILDING

SPECIFICATIONS

Design:
-International Building Code 2009
-ACI 318-14

DESIGN LOADING

Live Load Impact of 30,000lb Vehicle
Ground Snow Load 100psf
Wind Velocity 110mph
General Exposure Category 'C', Risk Category II

MATERIALS

Reinforcing Steel ASTM A615, Grade 60, Epoxy Coated
Structural Steel:
All Material (U.N.O.) ASTM A36, Grade 36, Galvanized

BASIC DESIGN STRESSES

Concrete $f'c = 4,000$ psi
Reinforcing Steel $f_y = 60,000$ psi

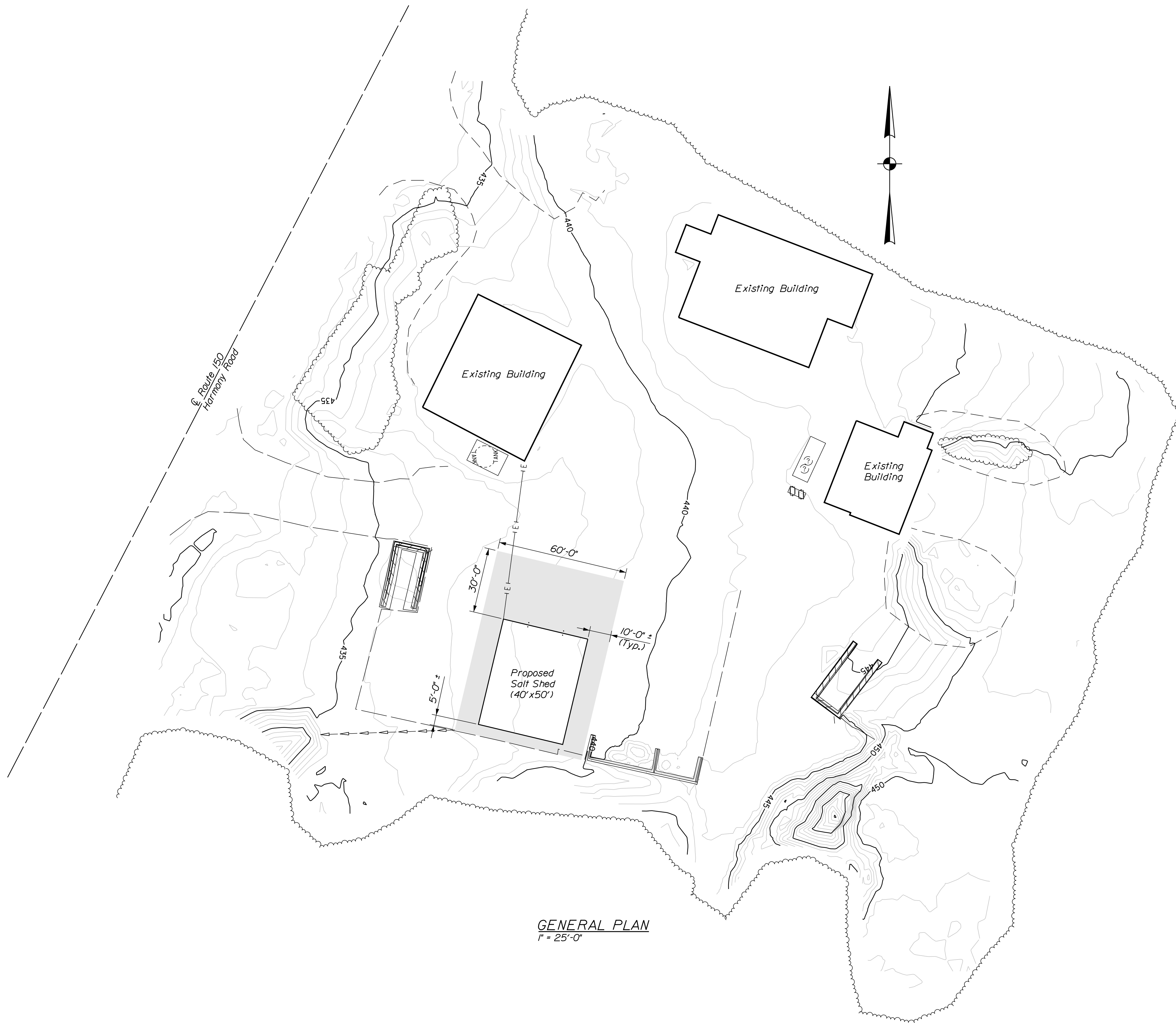
LIST OF DRAWINGS

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WIN 025818.00

PROJECT LOCATION:	177 Harmony Road Athens, Maine 04912
PROGRAM AREA:	Highway Maintenance Program
OUTLINE OF WORK:	Construction of Salt Storage Building

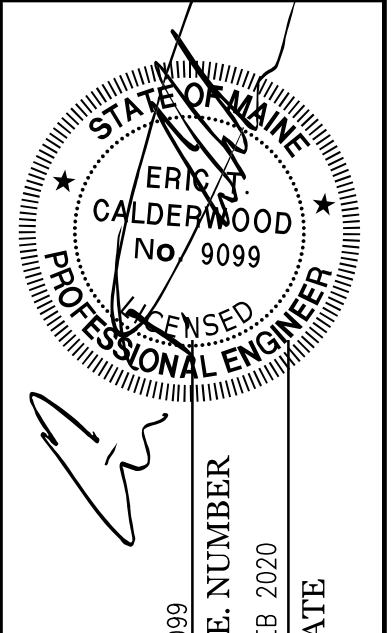
STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED <i>[Signature]</i>	DATE 4-17-2020	
COMMISSIONER: <i>[Signature]</i> CHIEF ENGINEER: <i>[Signature]</i>		DATE 4-16-2020	
SIGNATURE 9099	P.E. NUMBER CALDERWOOD ENGINEERING	DATE FEB 2020	
PROJECT INFORMATION PROGRAM PROJECT MANAGER DESIGNER CONSULTANT PROJECT RESIDENT CONTRACTOR PROJECT COMPLETION DATE	M. COLE CALDERWOOD ENGINEERING		ATHENS MAINTENANCE SALT BUILDING TITLE SHEET
SHEET NUMBER 1			OF 13



NOTES:

- 1.) Pavement Damaged due to Excavation and Construction is to be Replaced by Contractor at no Additional Cost to Maine DOT.
- 2.) Underdrain Termination will be located approximately 75' Southwest of the Southwest Corner of the proposed Salt Shed. Exact Location of the Underdrain Termination Shall be Determined in the Field by The Resident Engineer.
- 3.) Contractor will be Required to Excavate, Supply, Install, Backfill and Compact per National Electrical Code (NEC) up to 300 Ft. of Schedule 80, 2" φ Conduit. The Actual Location, Orientation, And Placement of the Conduit Shall be Determined by the Resident Engineer. The Contractor will be Required to Provide and Pull 3 Runs of 1/0 Aluminum Cable and 1 run of #6 Aluminum Ground Cable From the Load Center of the new Building. Payment for Electrical Supply, Conduit Installation and Related Work Shall be Considered Incidental to the Salt Shed Building.
- 4.) Payment for Excavation and Backfill, Including Gravel, Shall be Considered Incidental to Salt Shed Building.
- 5.) During Construction, if it is Determined that there is excavation Material Suitable for Reuse, the Contractor may use the Excavated Material For Backfill as Approved by the Resident. All excavated Material Unsuuitable for Reuse Shall be Stock Piled on Site for Future use. Exact Location of Stock Pile Shall be Determined in the Field by the Resident.
- 6.) Building Location and Elevations Shown are Approximate. Exact Location of Building and Elevations to be Determined in Field by Resident
- 7.) All Steel shown in Plans Shall be Galvanized Unless Noted Otherwise.

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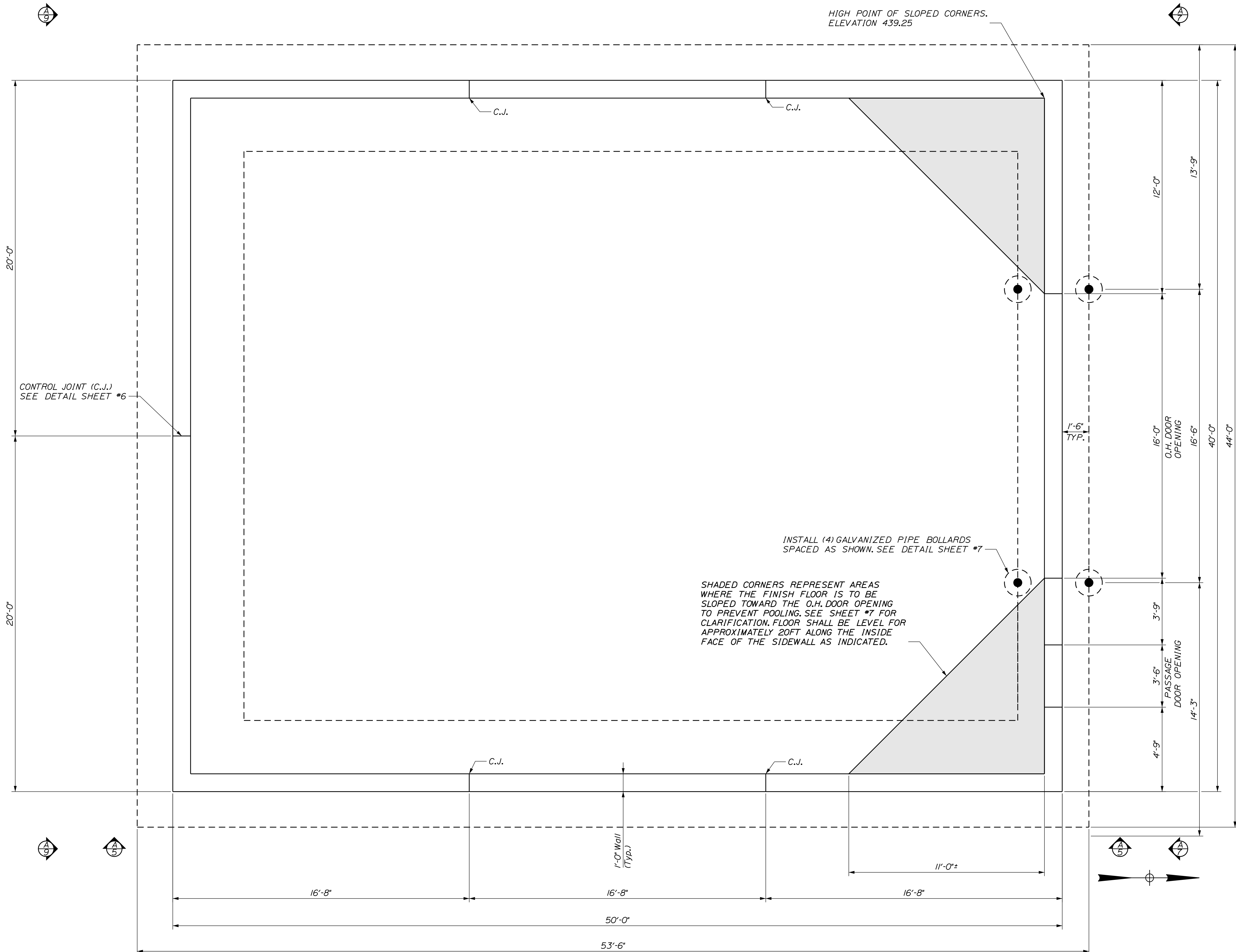
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**ATHENS MAINTENANCE
 SALT BUILDING**

GENERAL PLAN

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HIGH POINT OF SLOPED CORNERS,
ELEVATION 439.25

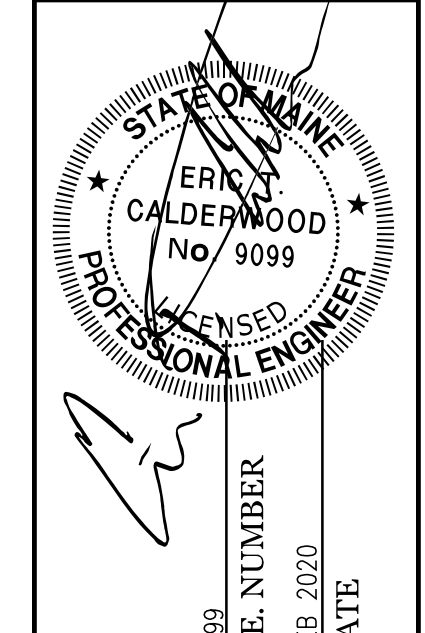
CONTROL JOINT (C.J.)
SEE DETAIL SHEET #6

INSTALL (4) GALVANIZED PIPE BOLLARDS
SPACED AS SHOWN. SEE DETAIL SHEET #7

SHADED CORNERS REPRESENT AREAS
WHERE THE FINISH FLOOR IS TO BE
SLOPED TOWARD THE O.H. DOOR OPENING
TO PREVENT POOLING. SEE SHEET #7 FOR
CLARIFICATION. FLOOR SHALL BE LEVEL FOR
APPROXIMATELY 20FT ALONG THE INSIDE
FACE OF THE SIDEWALL AS INDICATED.

FOUNDATION PLAN
3/8" = 1'-0"

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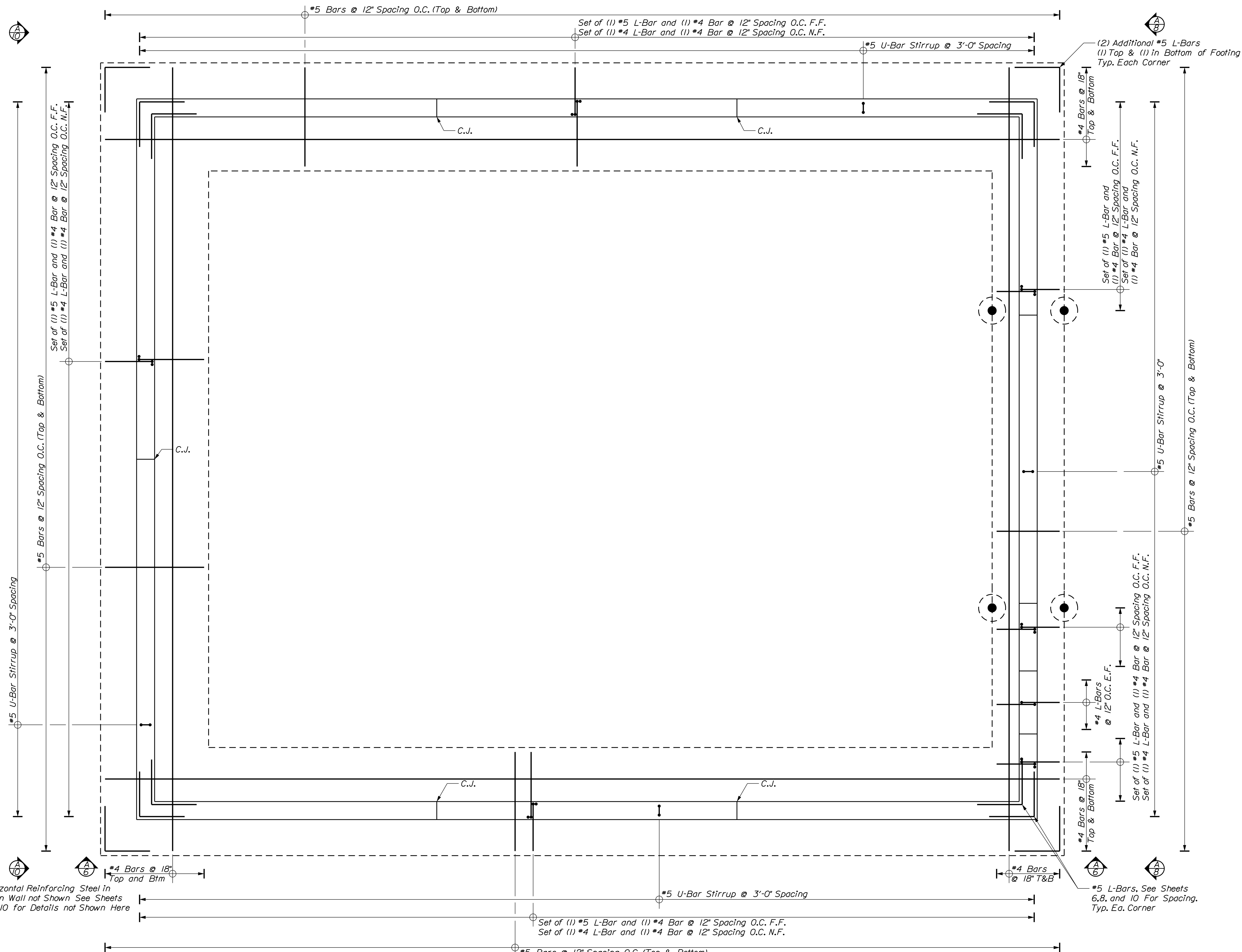


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SALT BUILDING
FOUNDATION PLAN

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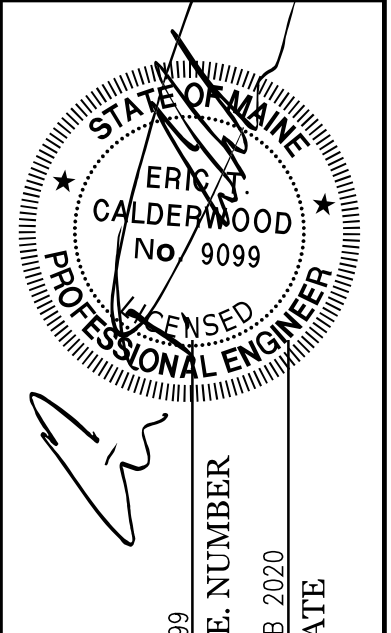




Note: Horizontal Reinforcing Steel in Foundation Wall not Shown See Sheets 6, 8, and 10 for Details not Shown Here

FOUNDATION PLAN
3/8" = 1'-0"

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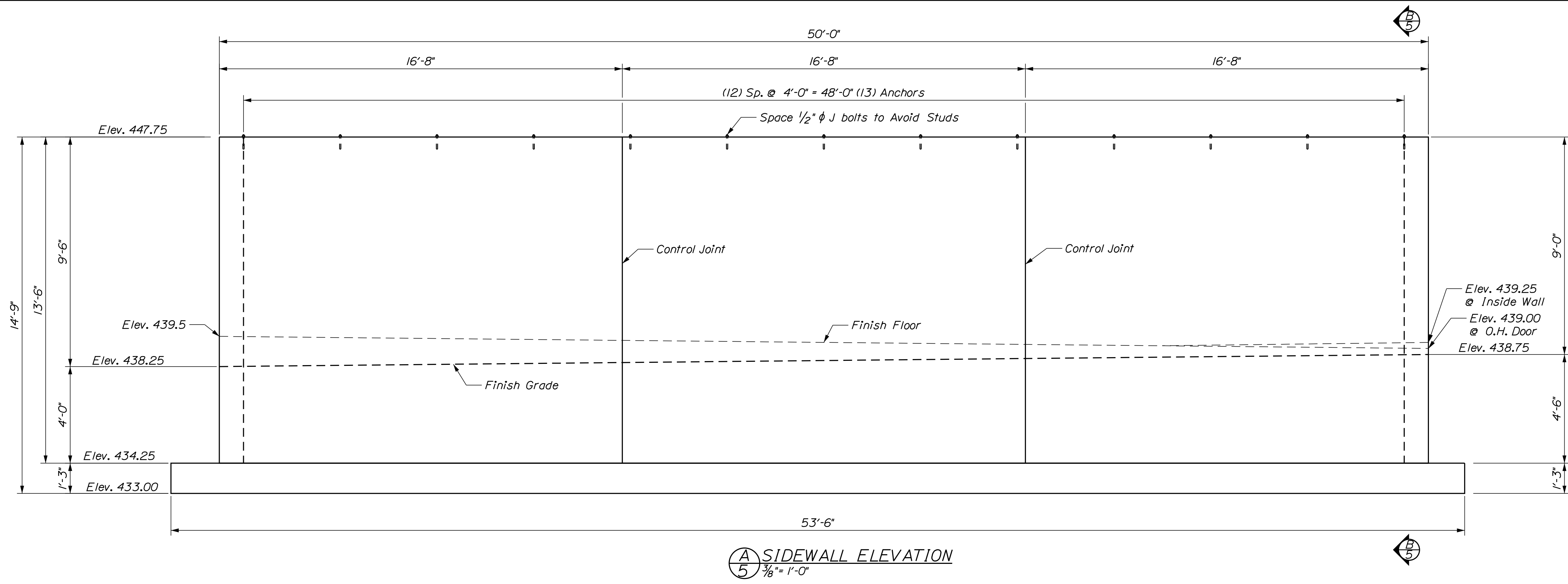


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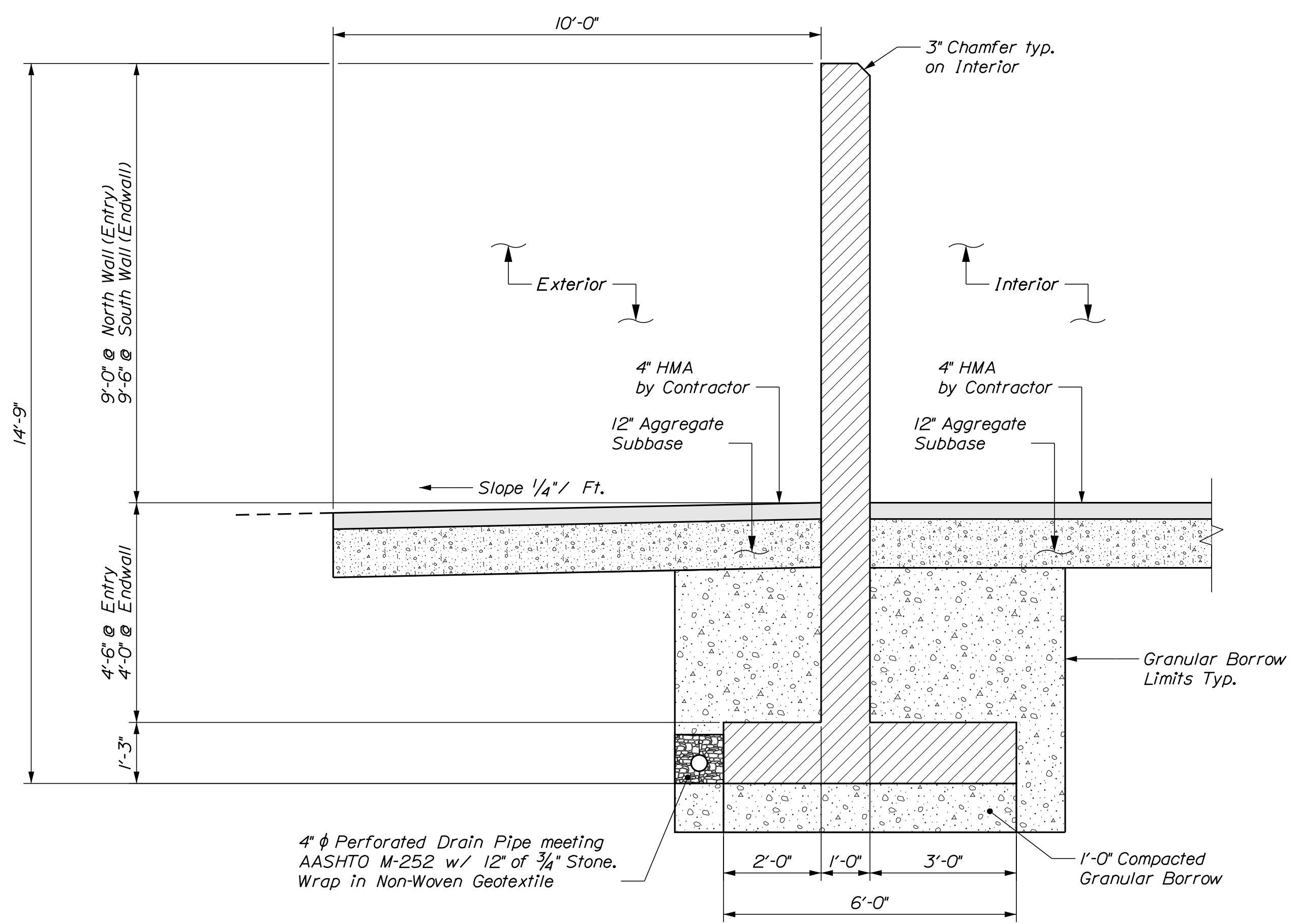
ATHENS MAINTENANCE
SALT BUILDING
FOUNDATION REINFORCING PLAN

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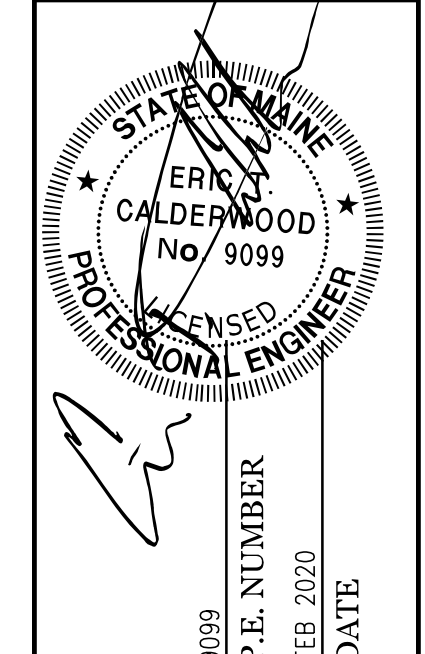


(A) SIDEWALL ELEVATION
5 3/8" = 1'-0"



(B) SIDEWALL SECTION
5 1/2" = 1'-0"

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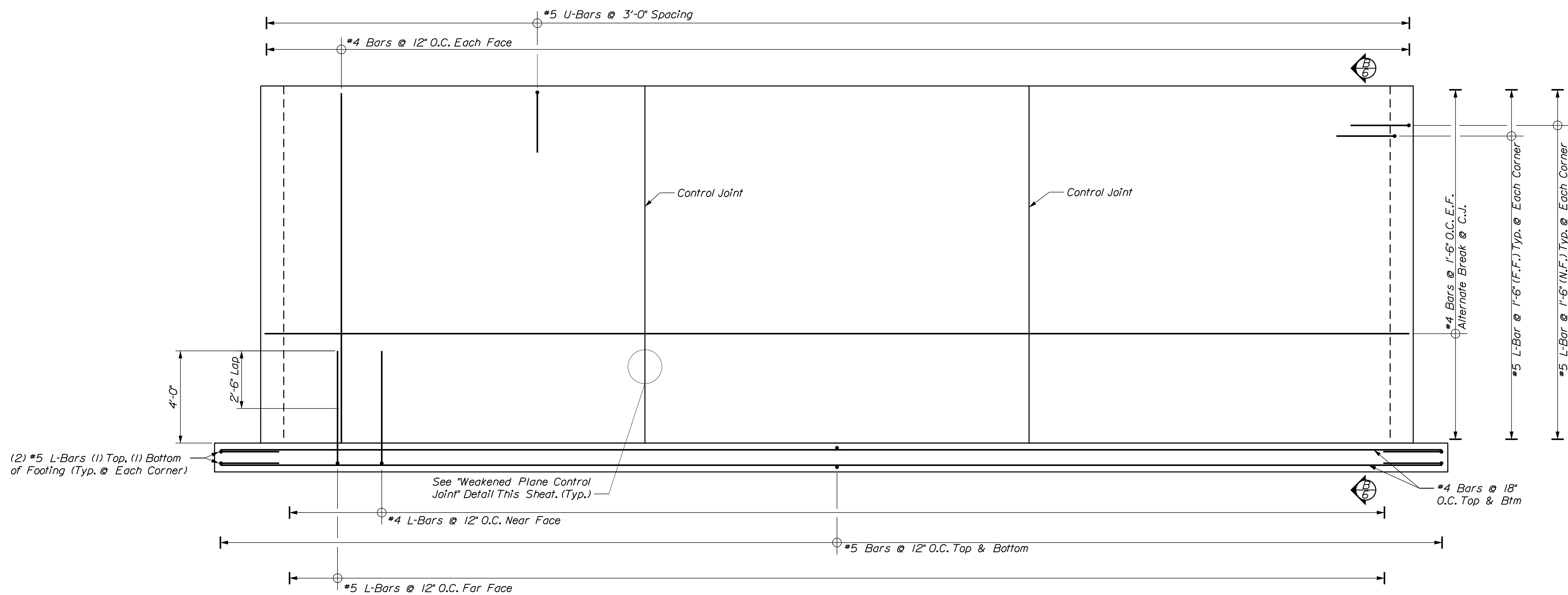


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SALT BUILDING
EAST & WEST SIDEWALL
DIMENSIONAL DETAILS

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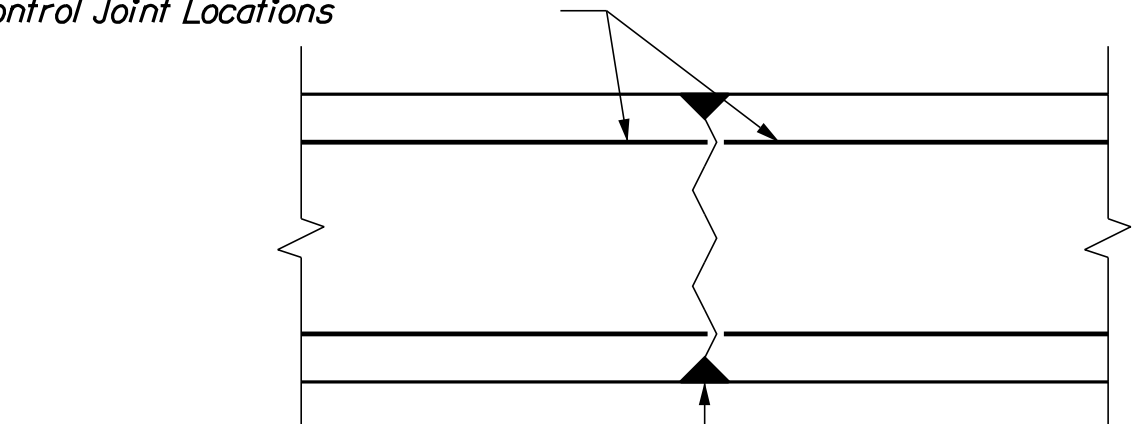
(2) #5 L-Bars (1) Top, (1) Bottom of Footing (Typ. @ Each Corner)

See "Weakened Plane Control Joint" Detail This Sheet. (Typ.)

#4 Bars @ 18" O.C. Top & Btm

A SIDEWALL REINFORCING ELEVATION
 3/8" = 1'-0"

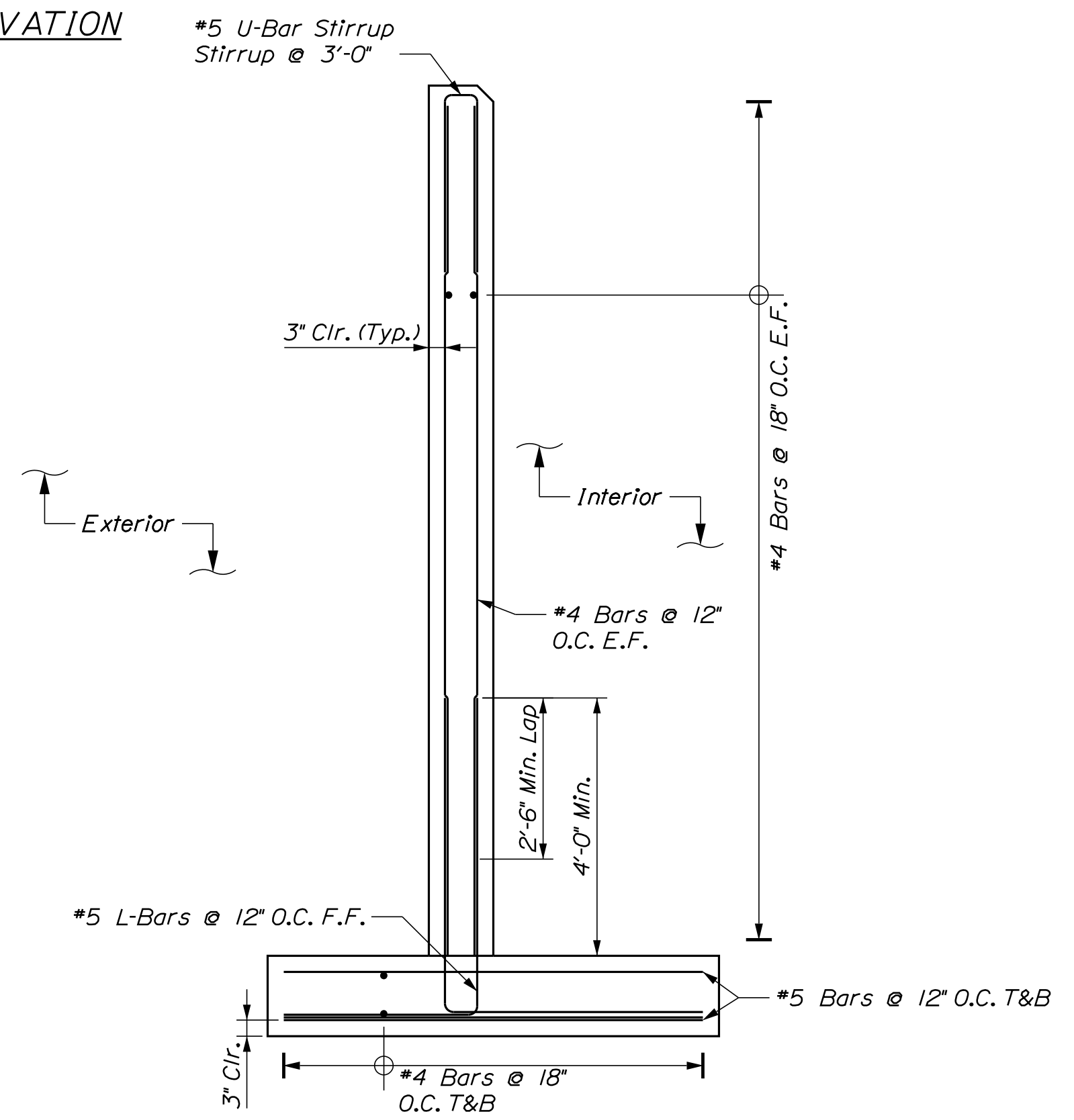
Cut or Butt Every Other Piece of Horizontal Reinforcing Steel @ Control Joint Locations



Install 1" Chamfer on Each Side of Wall Form for Full Height @ Control Joint Locations

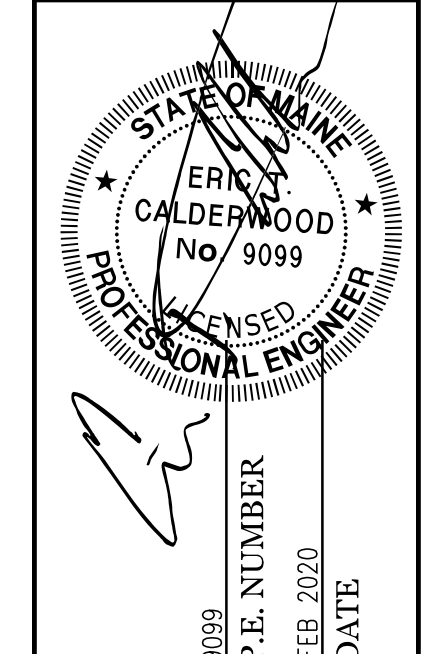
Clean Out Chamfer and Fill Joint Flush w/ Face of Wall Using Sikaflex 1A or Equivalent on the Inside Face of Wall and on the Outside Face From 6" Below Finish Grade to Top of Wall

WEAKENED PLANE CONTROL JOINT
 1/2" = 1'-0"



B SIDEWALL SECTION
 1/2" = 1'-0"

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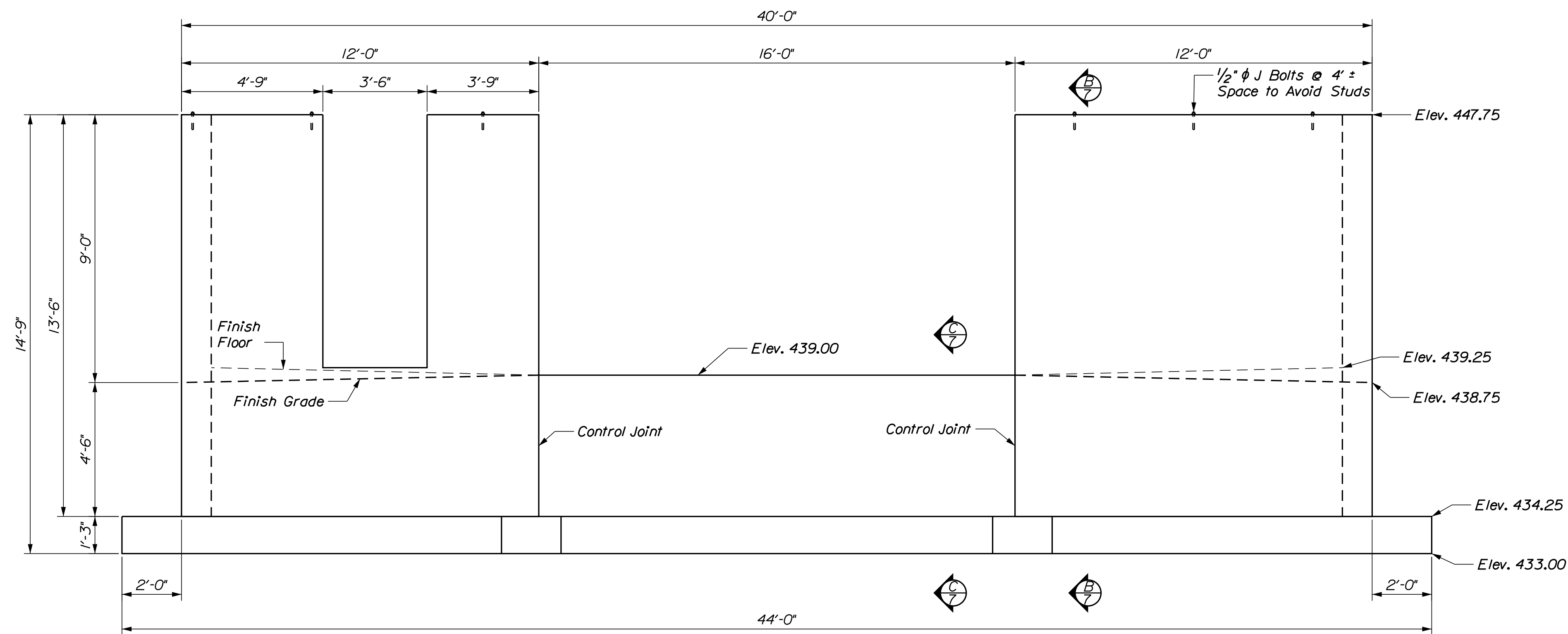


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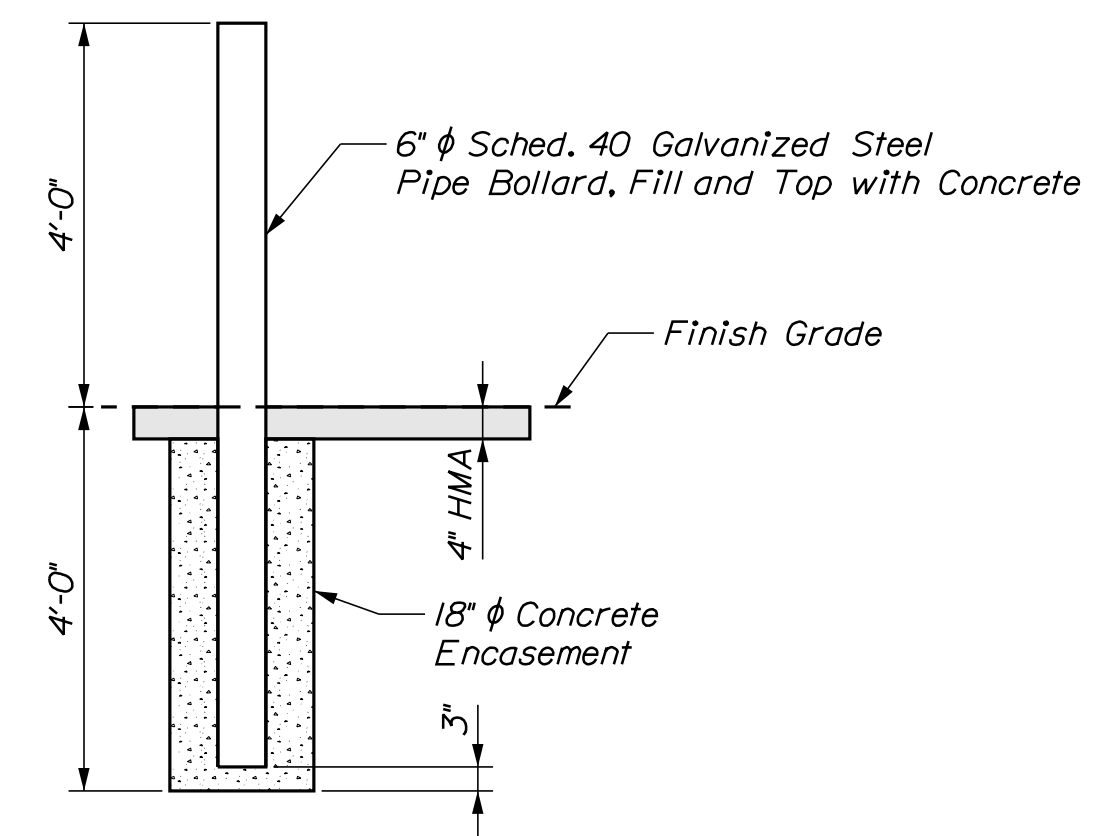
ATHENS MAINTENANCE
 SALT BUILDING
 EAST & WEST SIDEWALL
 REINFORCING DETAILS

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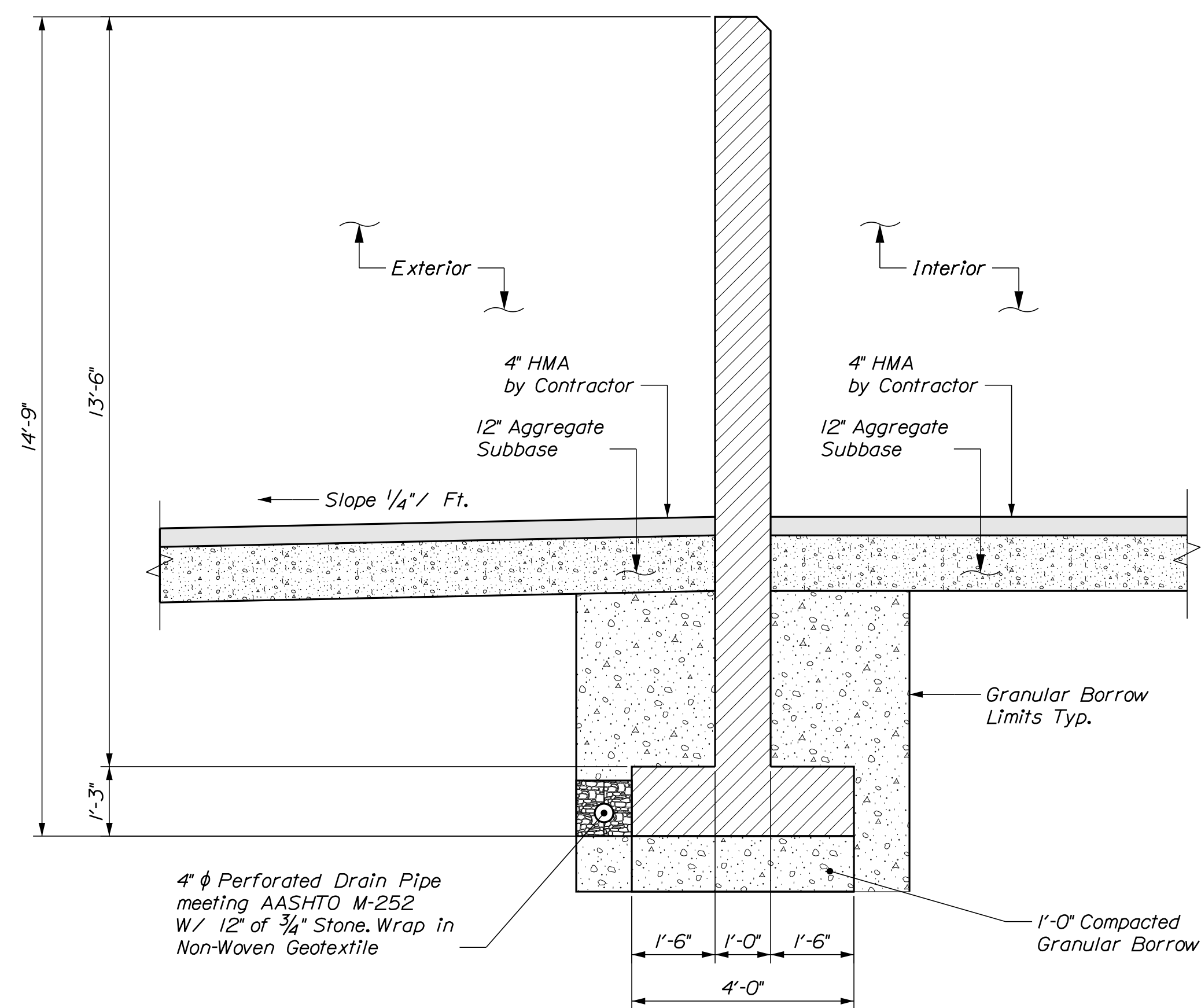




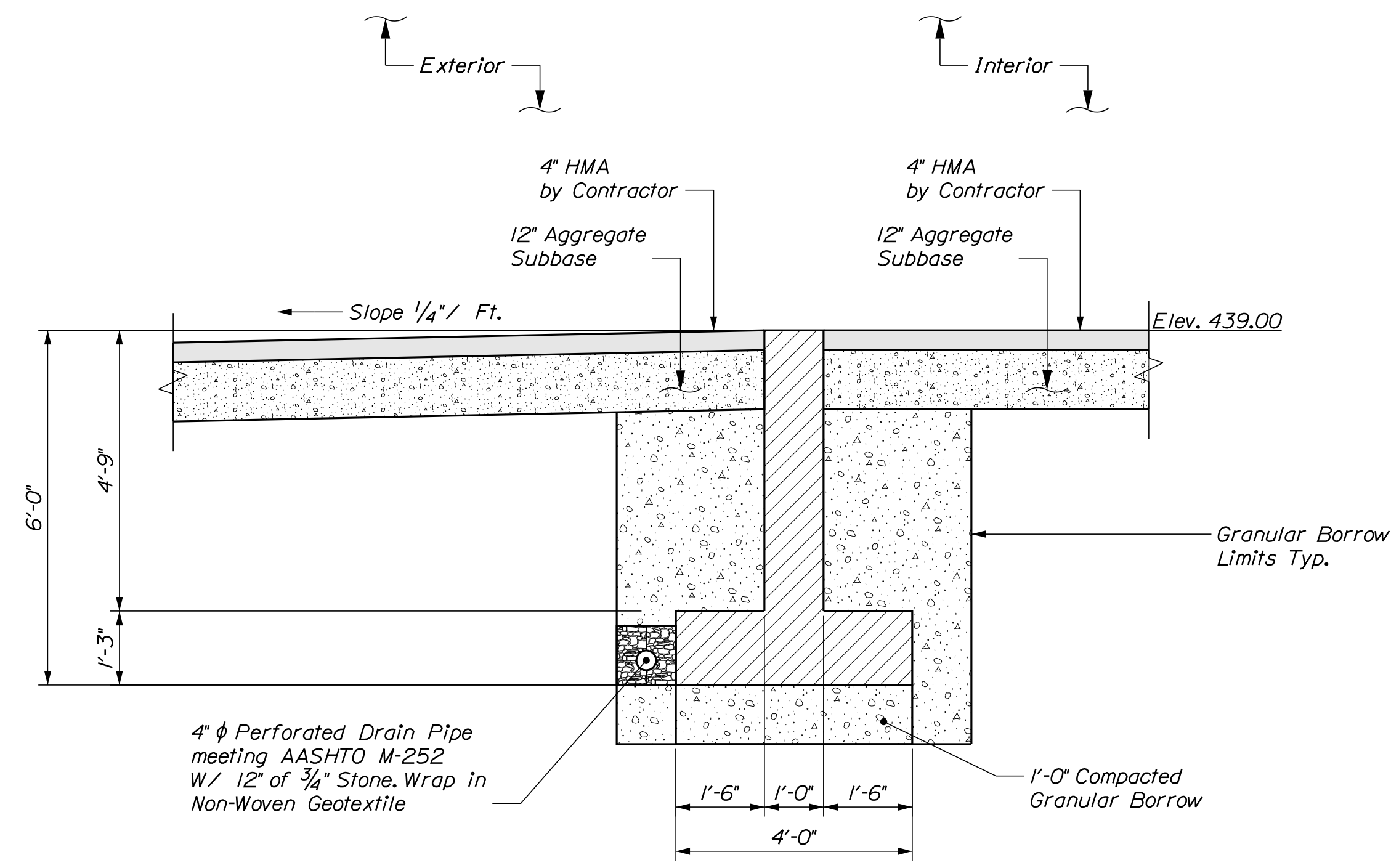
A FRONT WALL ELEVATION
7 3/8" = 1'-0"



PIPE BOLLARD DETAIL
1/2" = 1'-0"

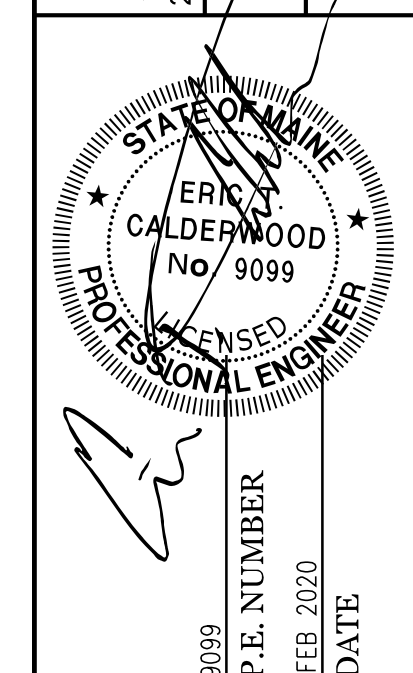


B FRONTWALL SECTION
7 1/2" = 1'-0"



C SECTION @ OVERHEAD DOOR
7 1/2" = 1'-0"

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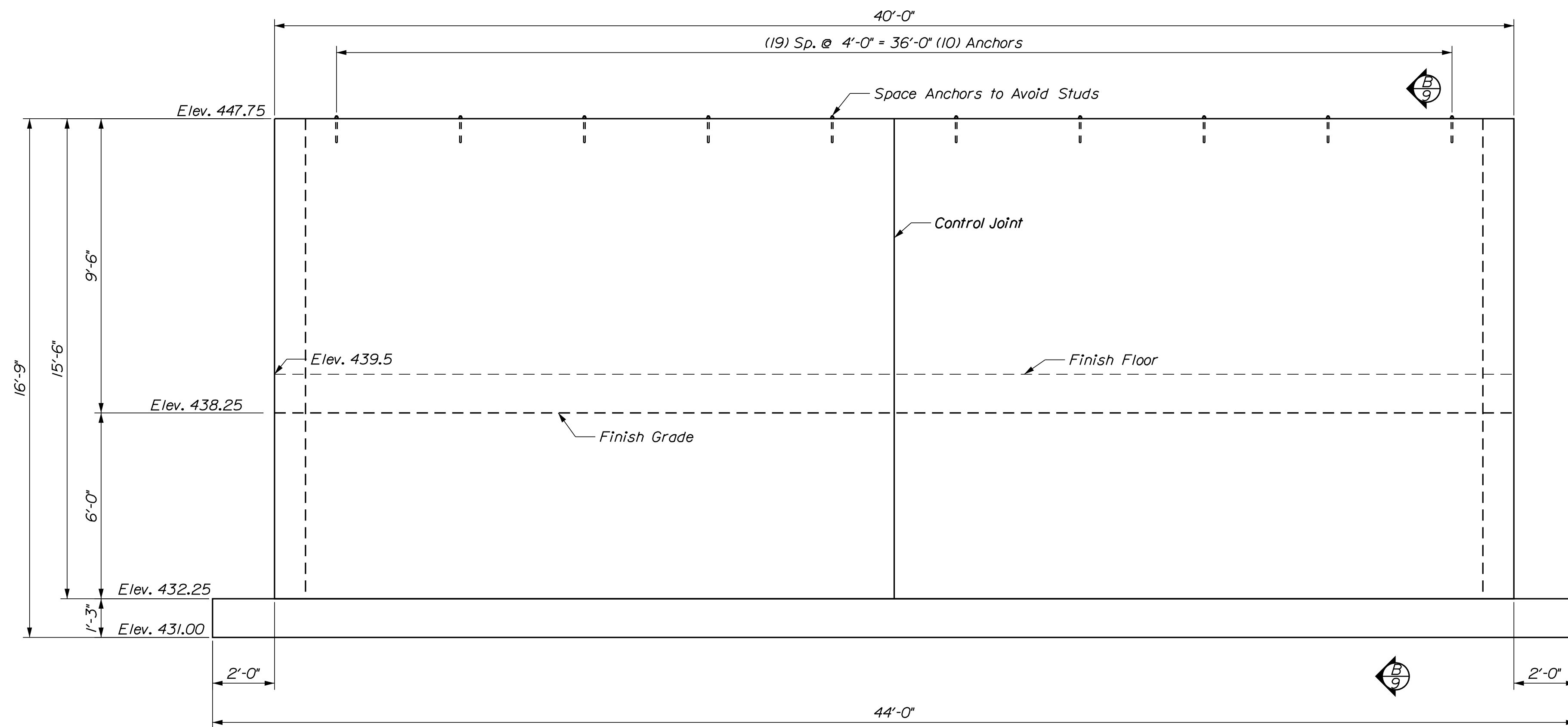
ATHENS MAINTENANCE
SALT BUILDING
NORTH END WALL
DIMENSIONAL DETAILS

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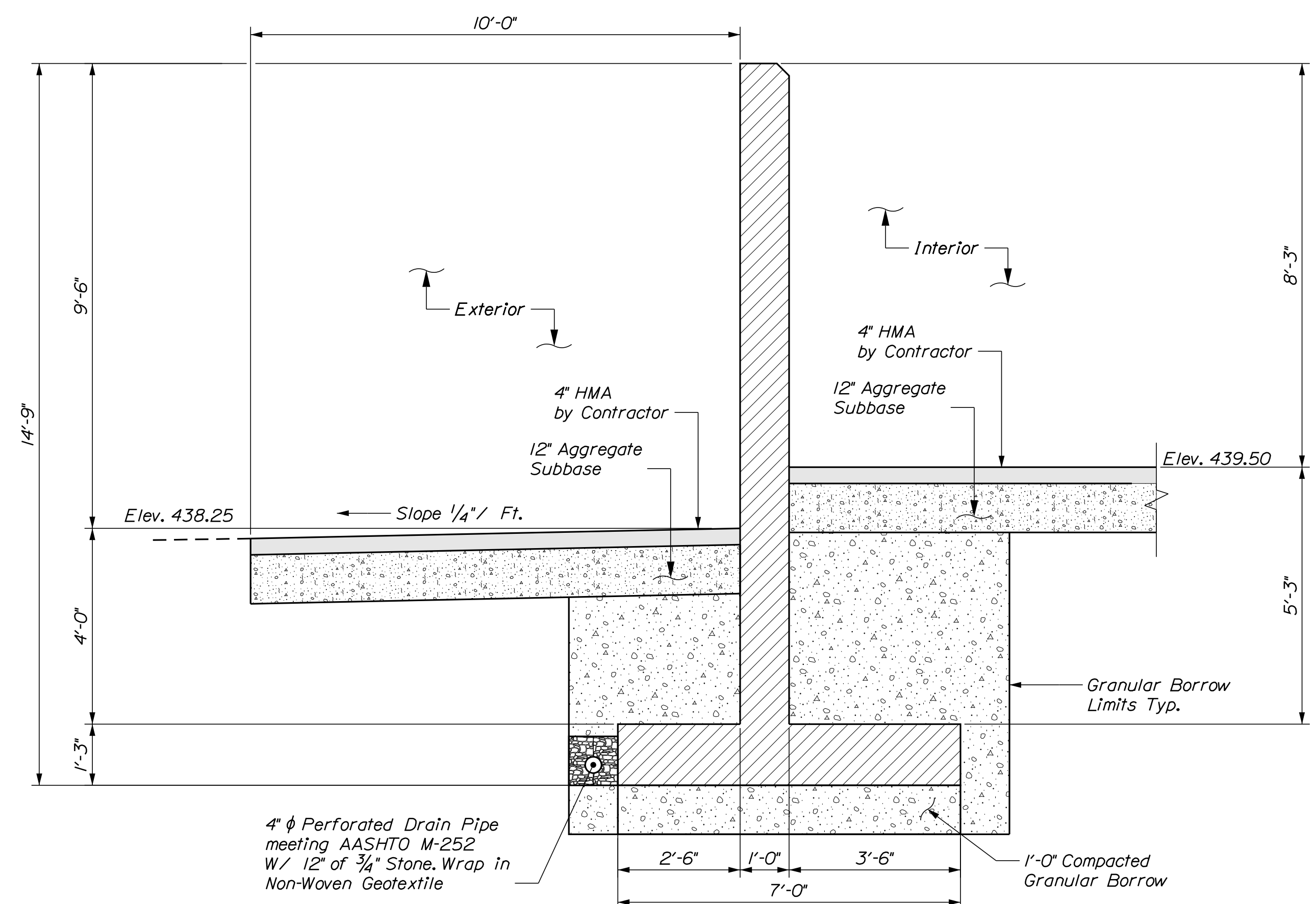
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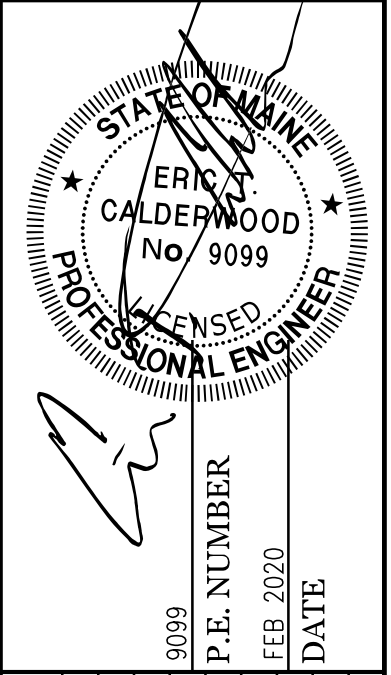


A BACK WALL ELEVATION
 3/8" = 1'-0"



B BACKWALL SECTION
 1/2" = 1'-0"

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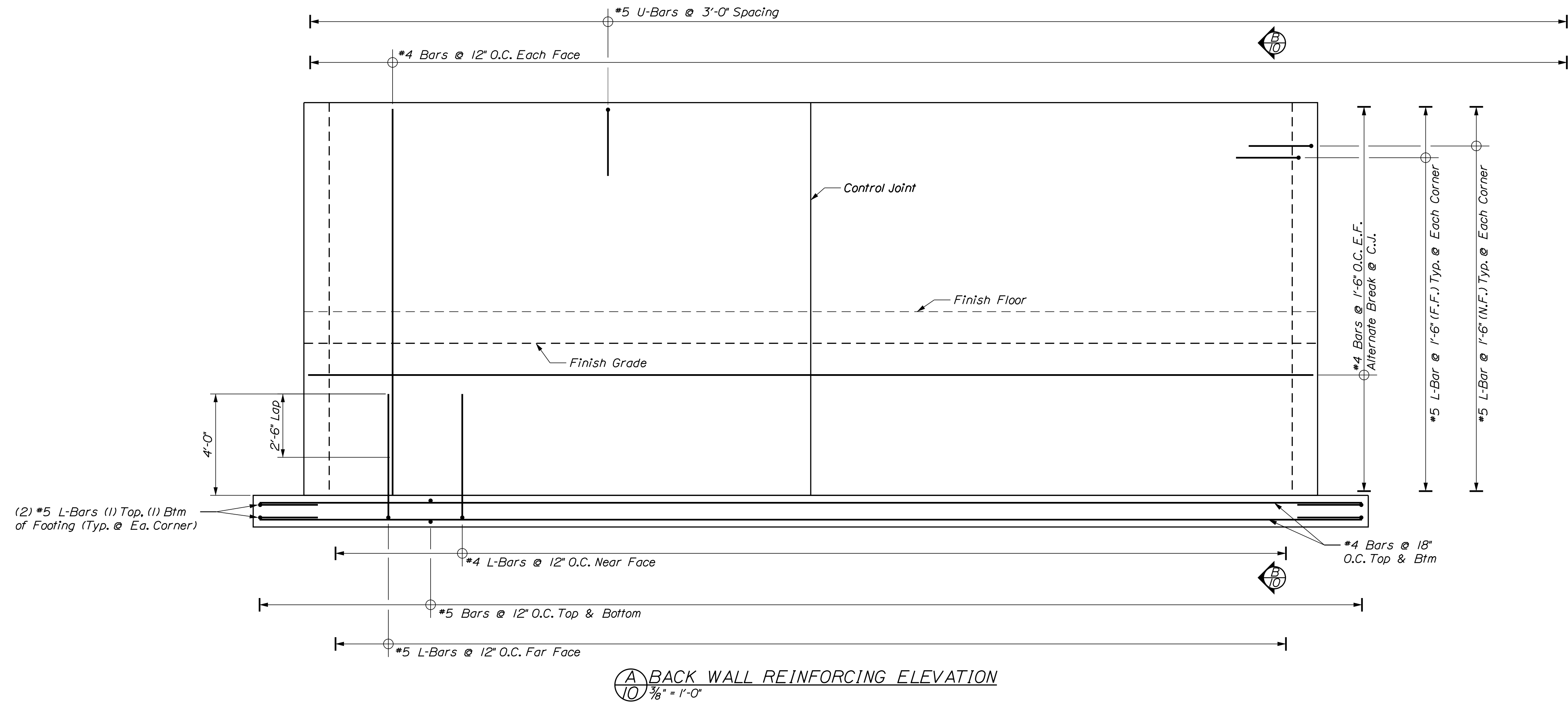


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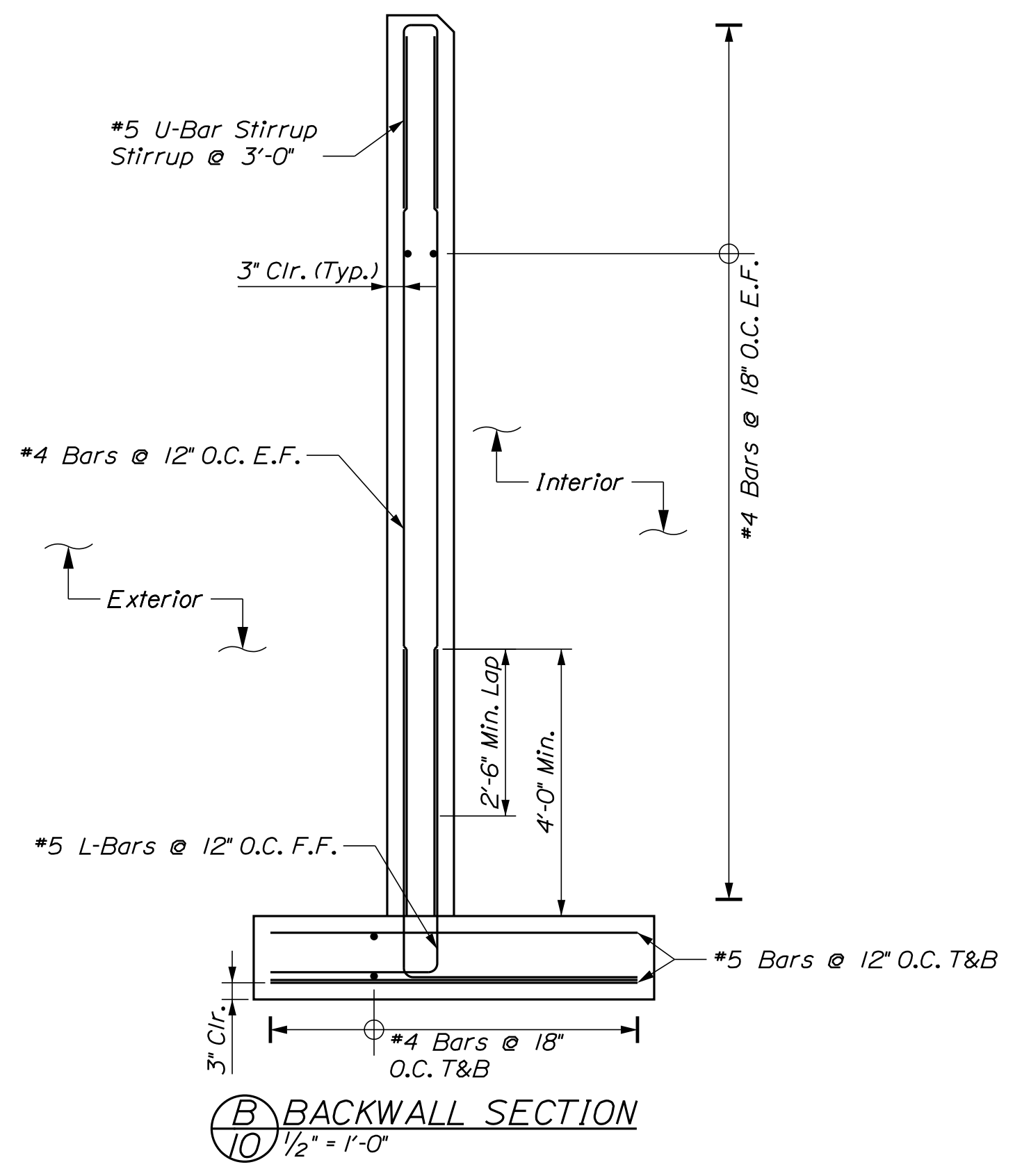
ATHENS MAINTENANCE
 SALT BUILDING
 SOUTH END WALL
 DIMENSIONAL DETAILS

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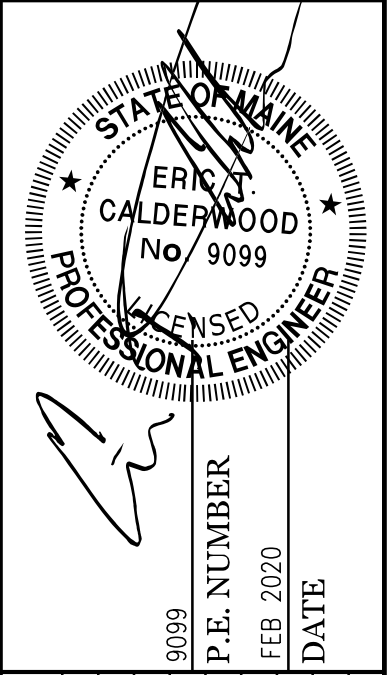


A BACK WALL REINFORCING ELEVATION
 1/8" = 1'-0"



B BACKWALL SECTION
 1/2" = 1'-0"

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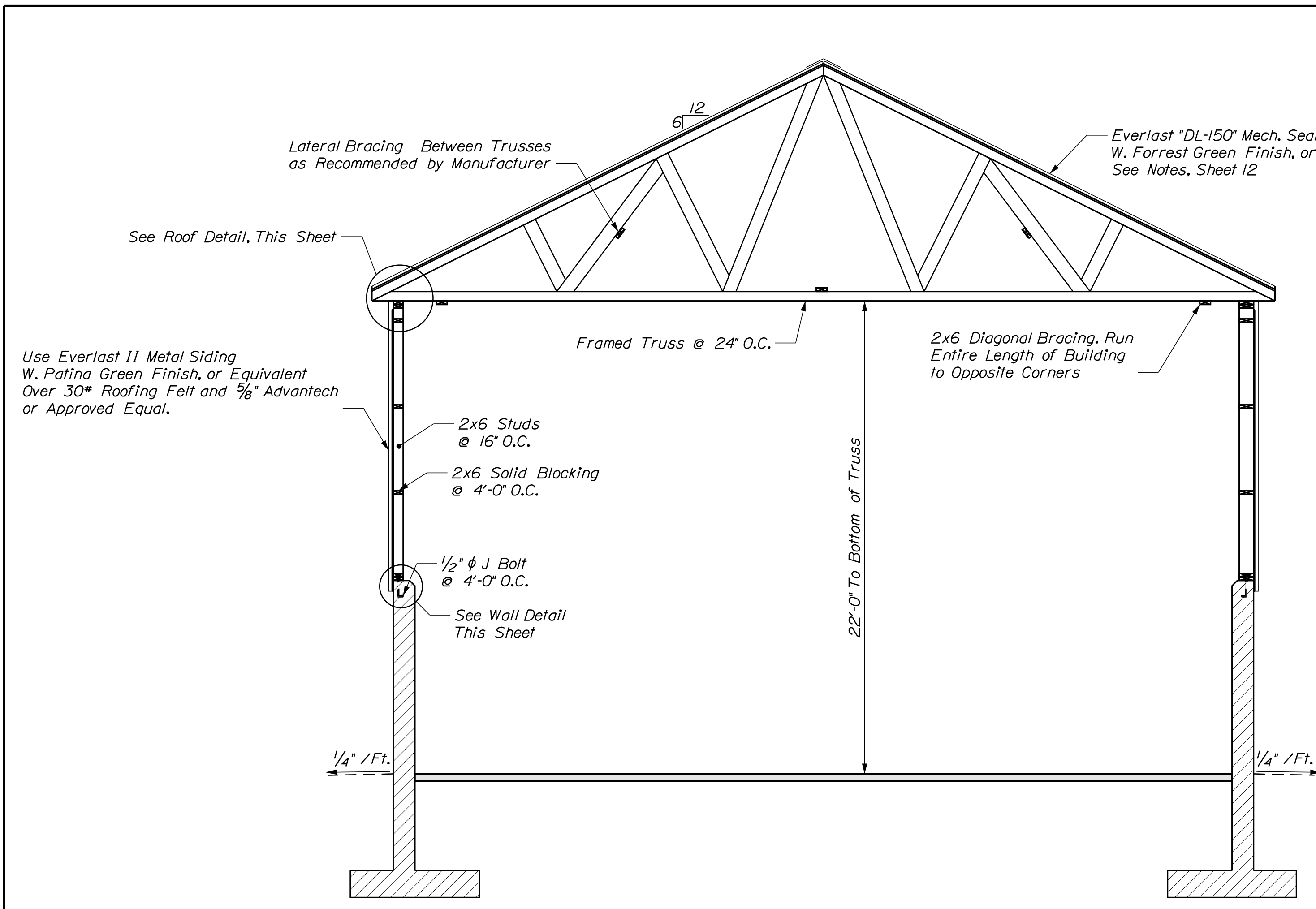


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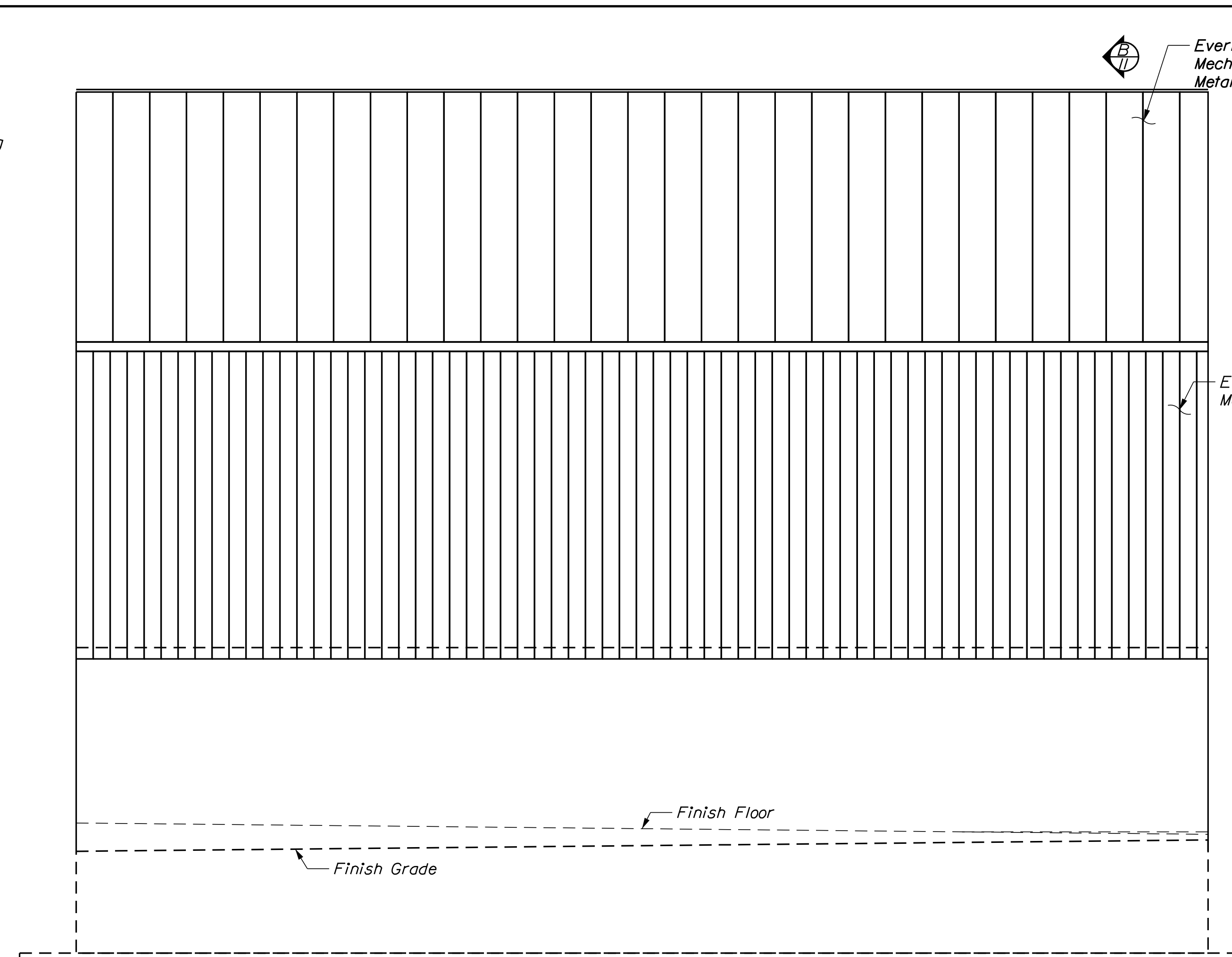
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 SALT BUILDING
 SOUTH END WALL
 DIMENSIONAL DETAILS

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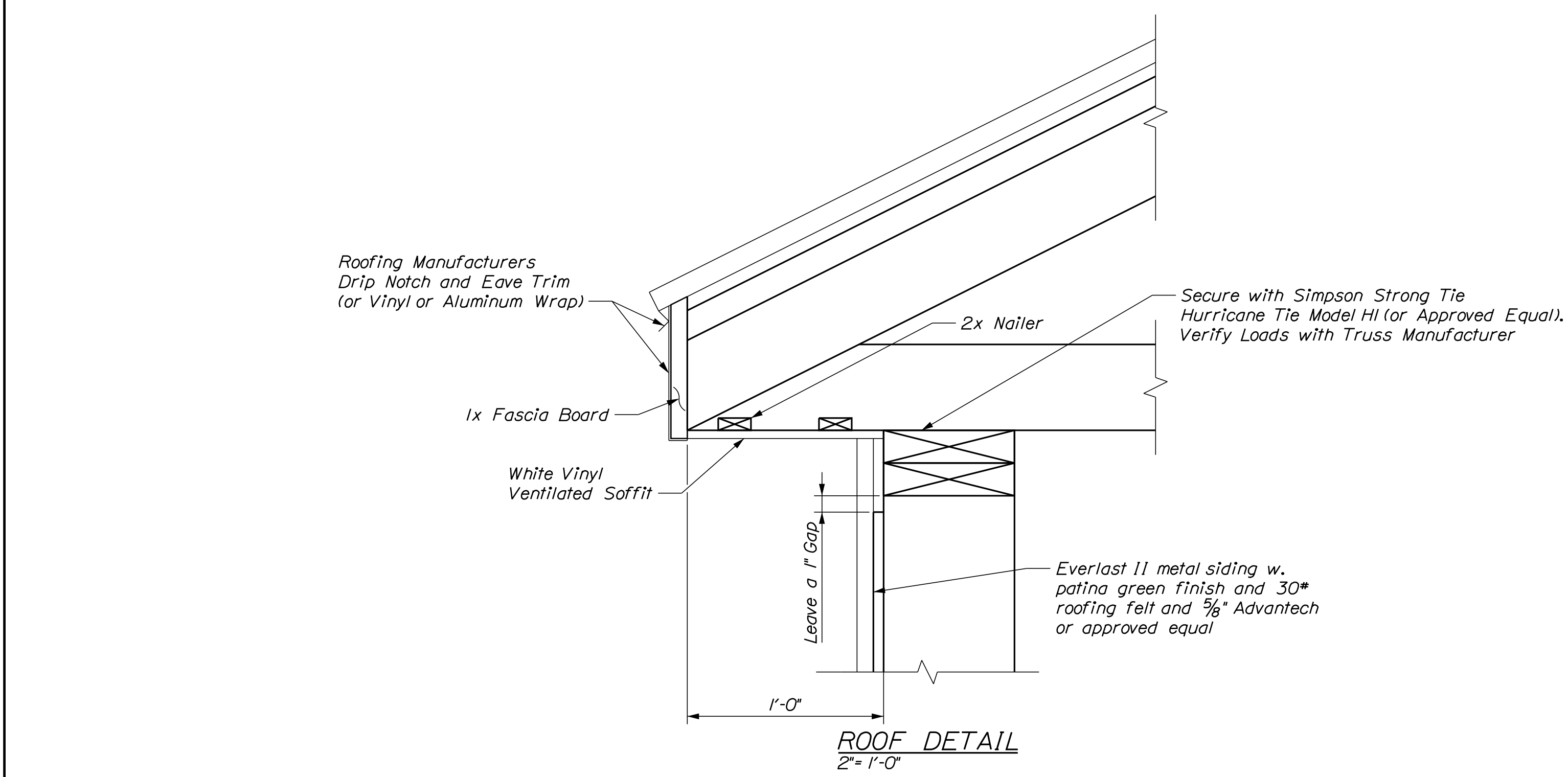




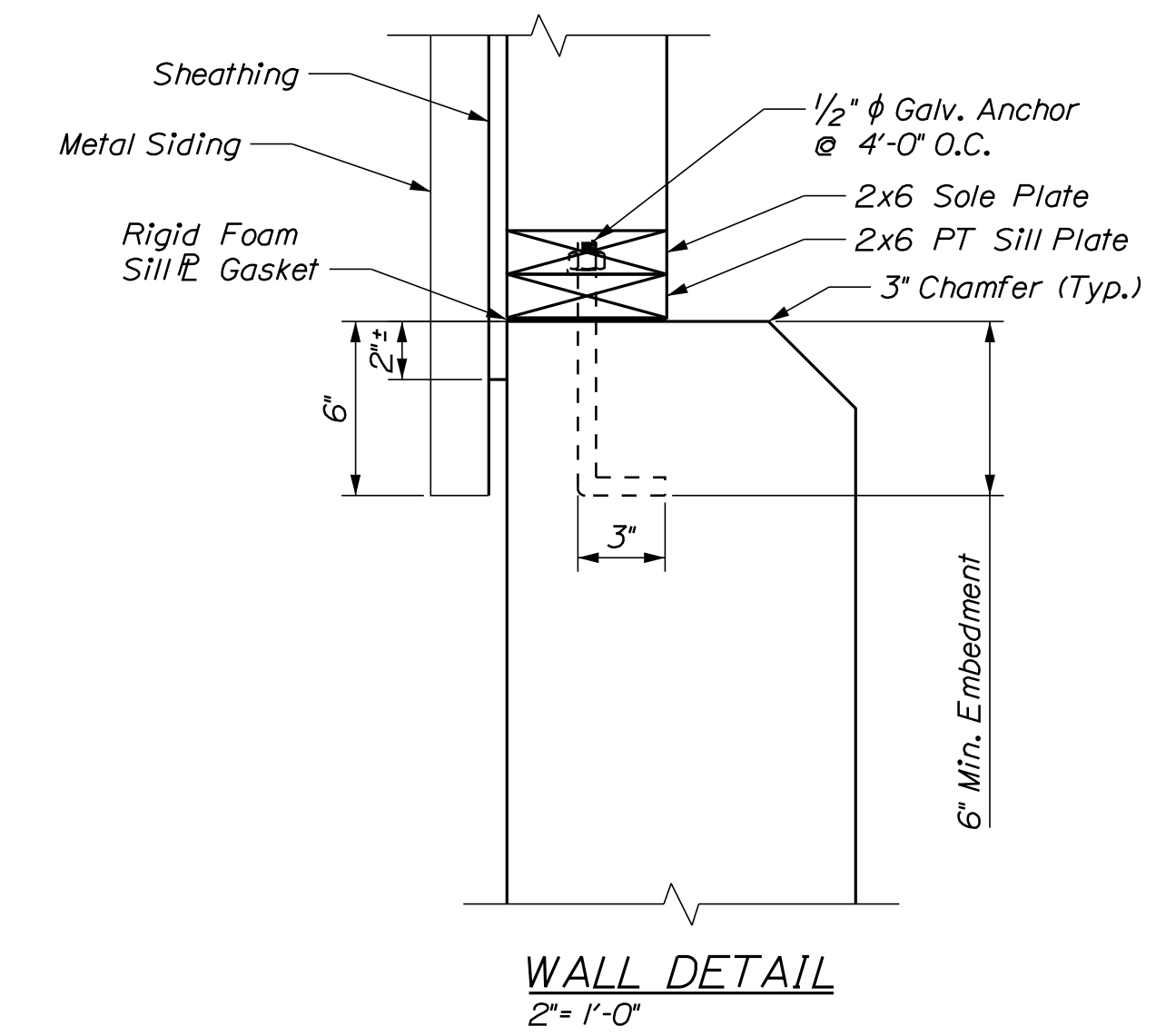
B TYPICAL SECTION
 1/4" = 1'-0"



A SIDEWALL ELEVATION
 1/4" = 1'-0" *East Elevation Shown

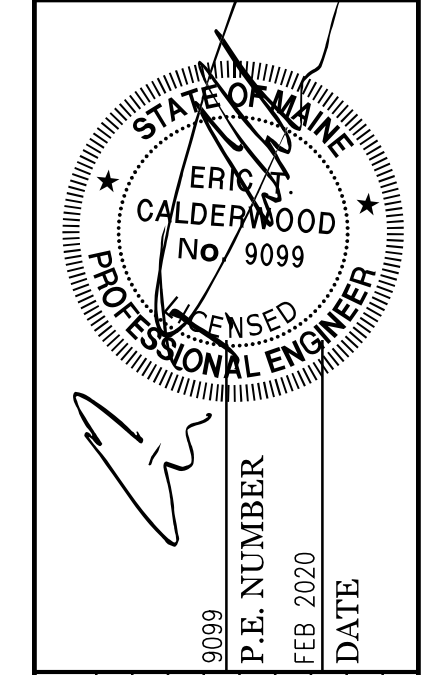


ROOF DETAIL
 2" = 1'-0"



WALL DETAIL
 2" = 1'-0"

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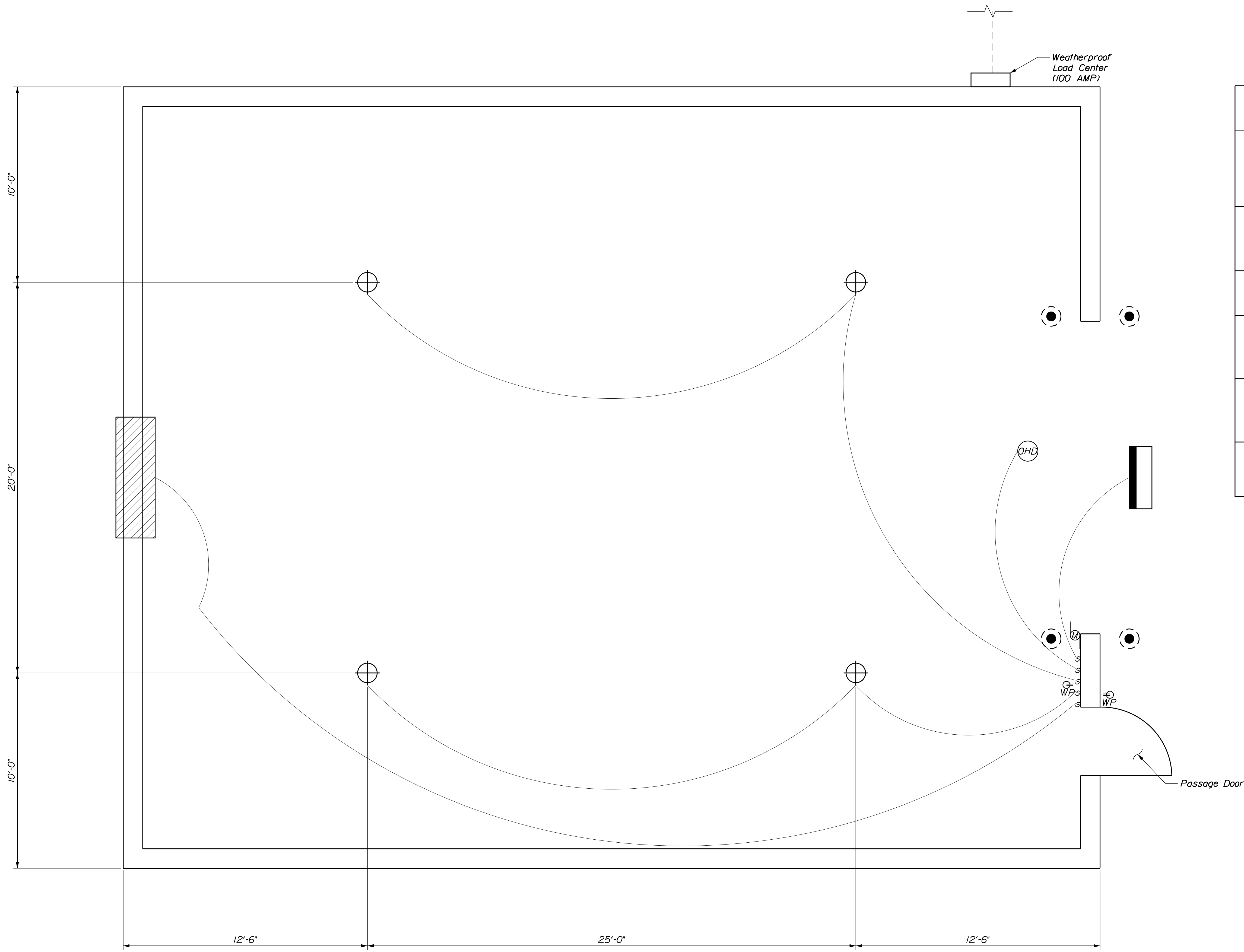


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ATHENS MAINTENANCE
 SALT BUILDING
 TYPICAL FRAMING DETAILS

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ELECTRICAL FLOOR PLAN
 $\frac{3}{8}'' = 1'-0''$

ELECTRICAL LEGEND	
	H.E. Williams, 5" Deep, Fully Enclosed Industrial Light Fixture. Model #92-8-454T5H-A-EB2/2-SSLATCH-SSMB W/ Attached Hubbell Fixture Mounted Occupancy Sensors
	LED FLOOD LIGHT EQUIV. TO LITHONIA D-SERIES SIZE 3 W/ PHOTOCELL AND SWITCH
s	WEATHERPROOF SWITCH
	GFCI RECEPTACLE W/ WEATHERPROOF COVER
	OVERHEAD DOOR OPERATOR
	EXHAUST FAN

Power to be Installed Underground if Possible, Contractor Shall Price as Such.

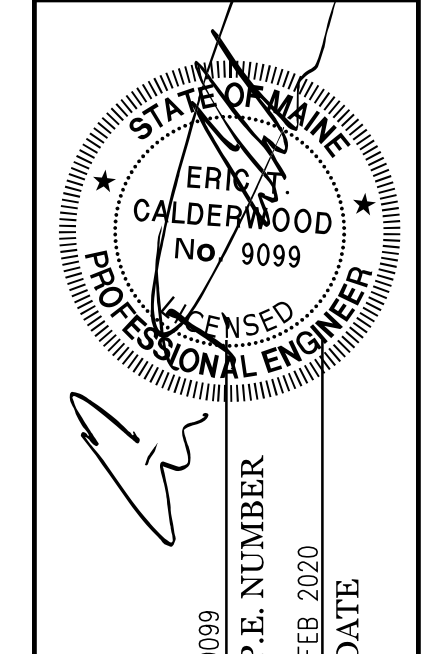
Contractor will be Req'd to Excavate, Supply, Install, Backfill, and Compact per National Electrical Code (NEC) an Underground Conduit. See Sheet 2 for Details.

Conduit Shall be Installed Below Grade. Each end of the Conduit Shall be Capped and protrude Above Finish Grade by 2 Ft.

Fan on Backwall, OHD Opener and Lights Shall be Wired and Hooked up for Power as Indicated

Suspend all Interior Lights a Min. of 1'-0" Below the Bottom Chord of the Framed Truss

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**ATHENS MAINTENANCE
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 FOUNDATION PLAN**

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