

# STATE OF MAINE DEPARTMENT OF TRANSPORTATION



## BETHEL MAINTENANCE SALT SHED

### SPECIFICATIONS

Design: International Building Code 2009

### DESIGN LOADING

Live Load ..... Impact of 30,000lb Vehicle @ Endwall Concrete Only  
 Ground Snow Load ..... 100psf  
 Wind Load ..... 90mph  
 ..... Exposure C, Category I

### MATERIALS

Reinforcing Steel ..... ASTM A615, Grade 60, Epoxy Coated  
 Structural Steel:  
 All Material (except as noted) ..... ASTM A709, Grade 50  
 High Strength Bolts ..... ASTM F1554, Grade 50

### BASIC DESIGN STRESSES

Concrete ..... f'c = 4,350 psi  
 Reinforcing Steel ..... fy = 60,000 psi

### LIST OF DRAWINGS

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STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
APPROVED: *[Signature]*  
COMMISSIONER: *[Signature]*  
DATE: 4/13/13  
CHIEF ENGINEER: *[Signature]*

STATE OF MAINE  
ERIC CALDERWOOD  
No. 9099  
LICENSED PROFESSIONAL ENGINEER

SIGNATURE: *[Signature]*  
9099  
P.E. NUMBER: CALDERWOOD ENGINEERING  
MAY 2013  
DATE

PROGRAM	PROJECT INFORMATION
PROJECT MANAGER	HIGHWAY
DESIGNER	R. GRADE
CONSULTANT	C. MACALISTER
PROJECT RESIDENT	CALDERWOOD ENGINEERING
CONTRACTOR	
PROJECT COMPLETION DATE	

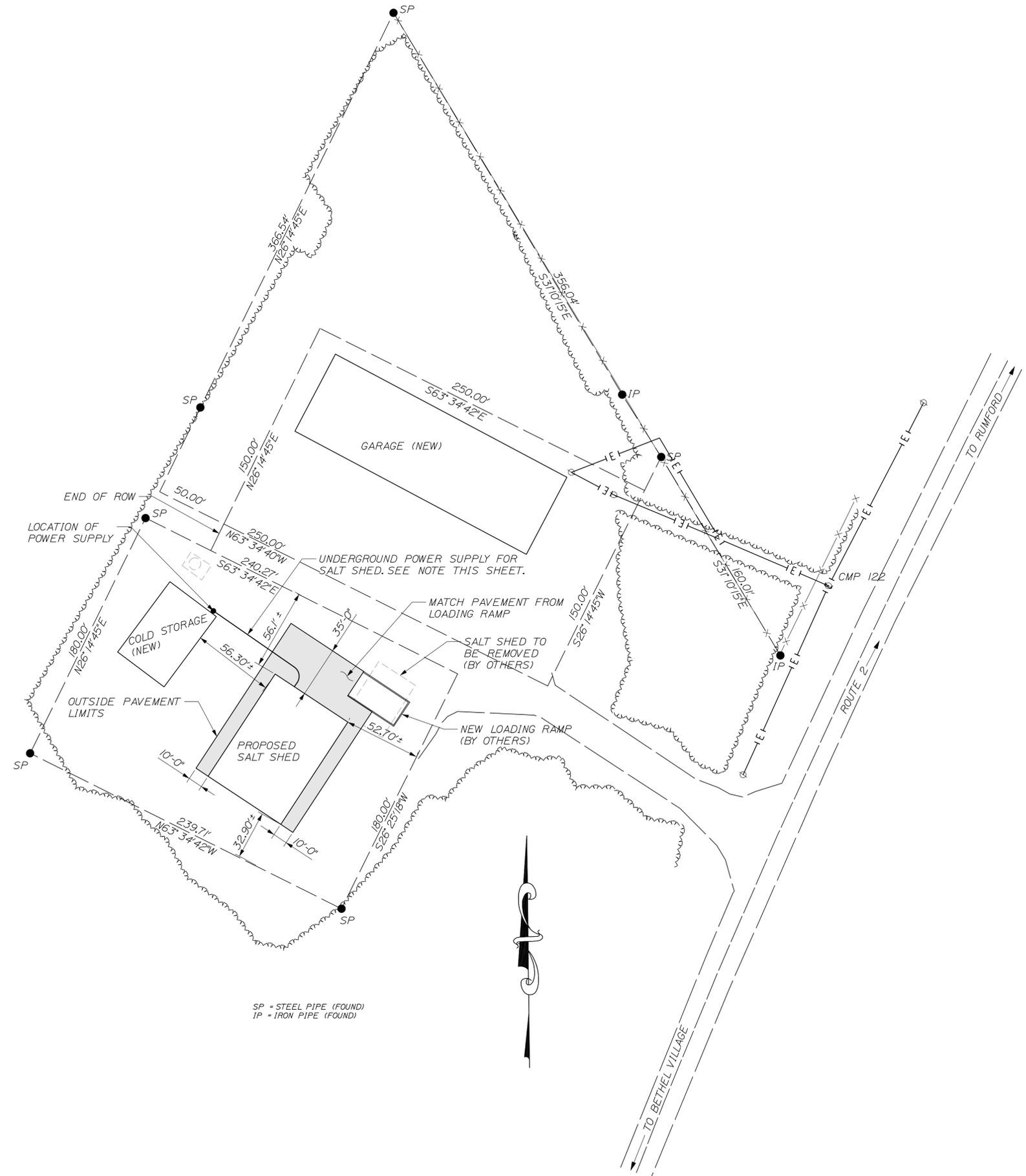
WIN 19849.00

<b>PROJECT LOCATION:</b>	821 Mayville Rd. 0.5 miles North along Route 2 from Walter Emery Rd. Bethel, ME
<b>PROGRAM AREA:</b>	Highway Maintenance Program
<b>OUTLINE OF WORK:</b>	Construction of Salt Storage Building

BETHEL MAINTENANCE  
SALT SHED  
TITLE SHEET

SHEET NUMBER  
**1**  
OF 13

Filename: \001\_Title.dgn  
Division: BRIDGE  
Username: common  
Date: 5/16/2013



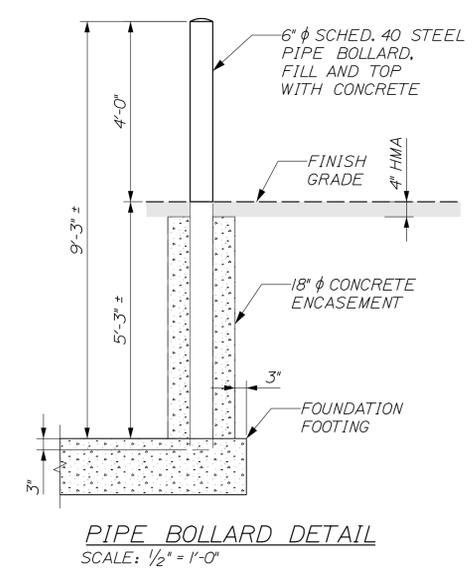
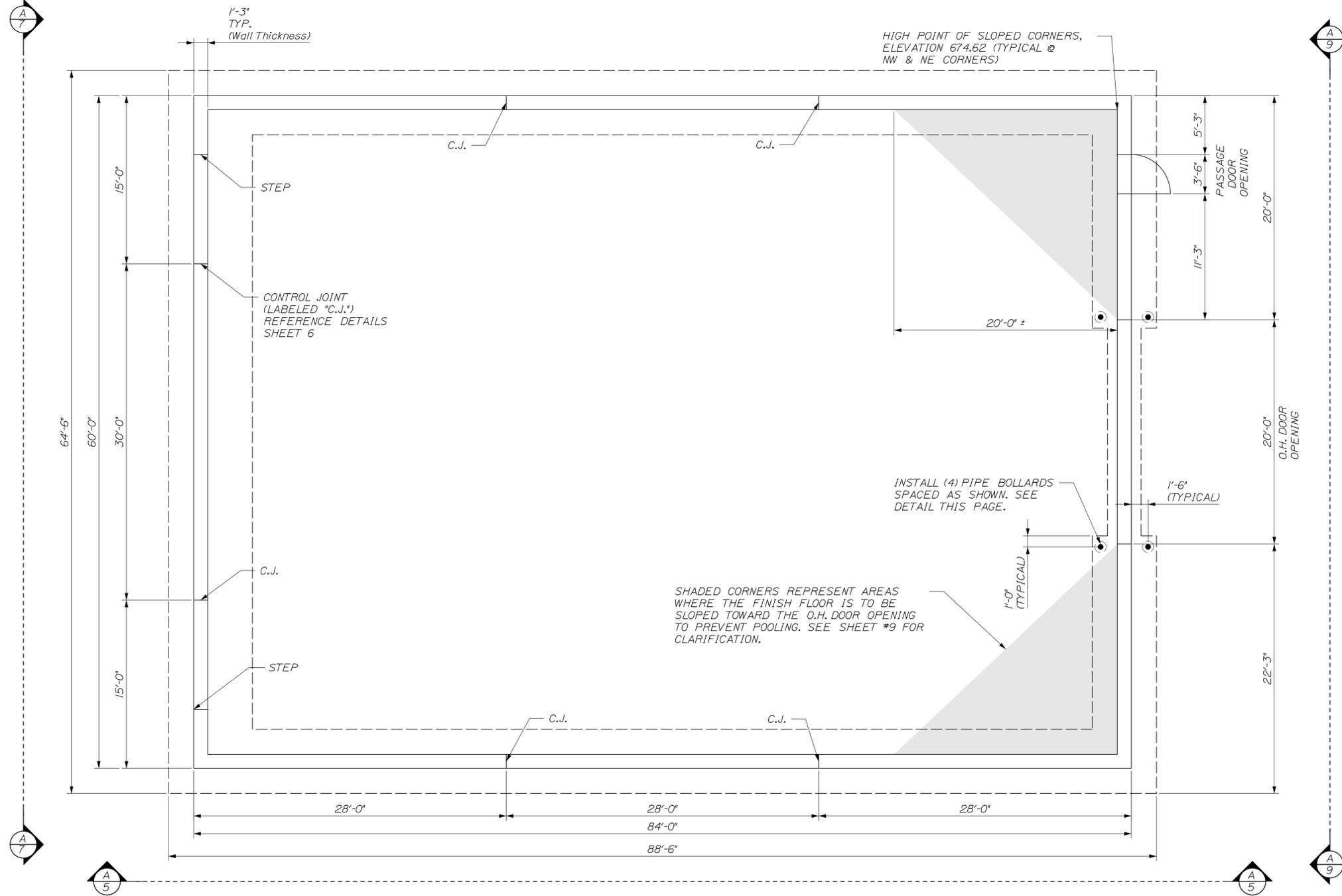
SP = STEEL PIPE (FOUND)  
 IP = IRON PIPE (FOUND)

**NOTES:**

- 1.) PAVEMENT LIMITS ON EXTERIOR OF SALT SHED ARE AS SHOWN.
- 2.) EXACT LOCATION OF THE UNDERDRAIN TERMINATION SHALL BE DETERMINED IN THE FIELD BY THE RESIDENT.
- 3.) CONTRACTOR WILL BE REQUIRED TO EXCAVATE, SUPPLY, INSTALL, BACKFILL AND COMPACT, PER NATIONAL ELECTRICAL CODE (NEC) UP TO 250FT OF SCHEDULE 80, 2" CONDUIT. THE CONDUIT WILL EXIT THE NEW SALT BUILDING AS SHOWN IN PLANS AND TRAVEL TO THE NEW COLD STORAGE BUILDING AS INDICATED ON THE PLANS. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE AND PULL 3 RUNS OF 1" 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 UNSUITABLE 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 FOR CONCEPTUAL PURPOSES ONLY. EXACT LOCATION OF BUILDING AND ELEVATIONS TO BE DETERMINED IN FIELD BY RESIDENT.
- 7.) ALL STRUCTURAL STEEL SHAPES SHOWN IN PLANS INCLUDING BOLLARDS SHALL BE GALVANIZED UNLESS NOTED OTHERWISE.

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		P.E. NUMBER: 9099 DATE: MAY 2013
DESIGNED: RETAINED CHECKED: REVIEWED	BY: CMW DATE: MAY 2013	REVISIONS 1 REVISIONS 2 REVISIONS 3 REVISIONS 4 FIELD CHANGES
<b>BETHEL MAINTENANCE SALT SHED</b> <b>GENERAL SITE PLAN</b>		
SHEET NUMBER <span style="font-size: 2em;">2</span> OF 13		





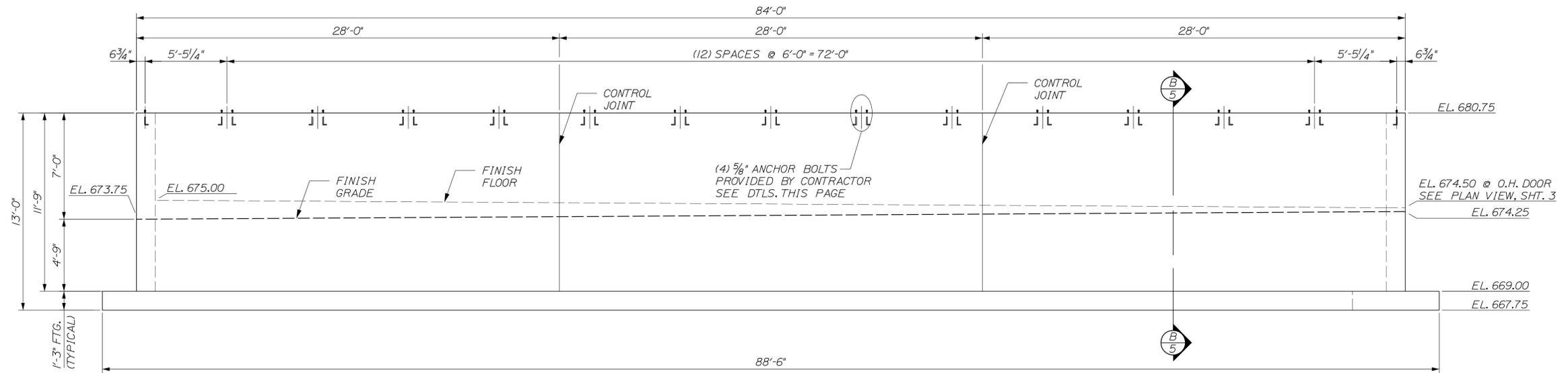
**A** FOUNDATION PLAN  
3 3/16" = 1'-0"



<b>BETHEL MAINTENANCE SALT SHED FOUNDATION PLAN</b>		<b>STATE OF MAINE DOT</b> BETHEL ME SALT SHED WIN 19849.00
SHEET NUMBER <h1 style="font-size: 2em;">3</h1>		OF 13
CALDERWOOD ENGINEERING, ETC. STRUCTURAL ENGINEERING • DETAILING SERVICES 222 RIVER RD., RICHMOND, ME 04857 PH/FX (207) 737-2007/(207) 737-2008 PREPARED FOR:		
ERIC CALDERWOOD No. 9099 LICENSED PROFESSIONAL ENGINEER		DATE: MAY 2013
P.E. NUMBER: 9099		DATE: MAY 2013
BY: CMW		DATE: MAY 2013
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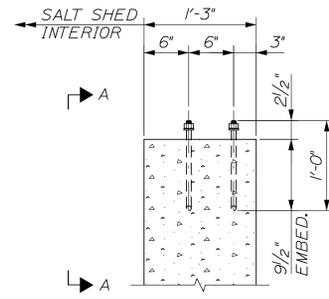
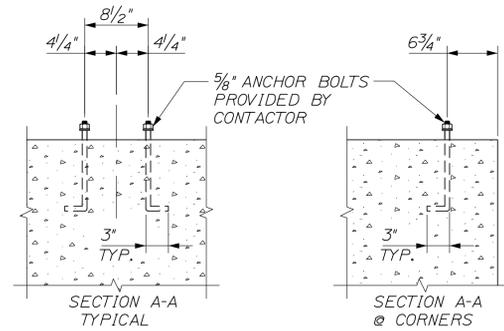






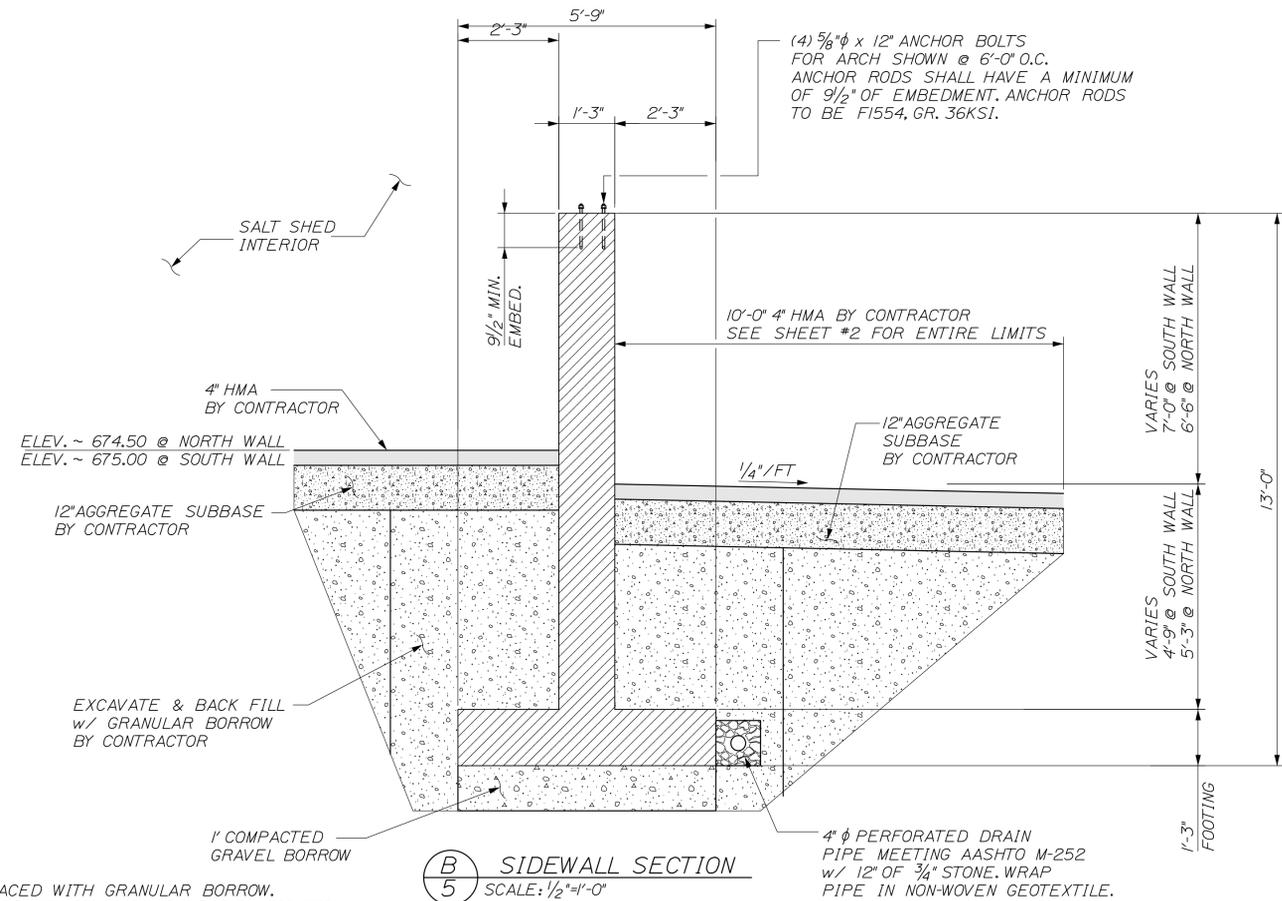
**(A) SIDEWALL ELEVATION**  
 SCALE: 1/4" = 1'-0"  
 TYPICAL FOR EAST AND WEST SIDEWALLS  
 ARCHES NOT SHOWN

**NOTE:**  
 ACTUAL ANCHOR BOLT LAYOUT TO BE COORDINATED WITH THE LAMINATED ARCH MANUFACTURER. GENERAL CONTRACTOR IS RESPONSIBLE FOR CHECKING LAYOUT OF ANCHOR BOLTS WITH ARCH BASE PLATES TO ENSURE A PROPER FIT.



**ANCHOR BOLT DETAIL**  
 SCALE: 1" = 1'-0"

**NOTES:**  
 1.) EXCAVATED MATERIAL SHALL BE REPLACED WITH GRANULAR BORROW. EXCAVATED MATERIAL SHALL BE STOCK PILED ON SITE FOR REUSE. LOCATION OF STOCK PILE SHALL BE DETERMINED BY RESIDENT IN FIELD.  
 2.) ELEVATIONS SHOWN ARE BASED OFF AN ARBITRARY DATUM.  
 3.) GRANULAR BORROW BACK FILL LIMITS SHALL EXTEND 18 INCHES PAST THE END OF THE FOOTING (BOTH SIDES) TYPICAL ALONG EACH WALL.



**(B) SIDEWALL SECTION**  
 SCALE: 1/2" = 1'-0"

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 REVISIONS 3  
 REVISIONS 4  
 FIELD CHANGES  
 P.E. NUMBER: 9099  
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BETHEL MAINTENANCE  
 SALT SHED  
 EAST & WEST SIDEWALL  
 DIMENSIONAL DETAILS

SHEET NUMBER

5

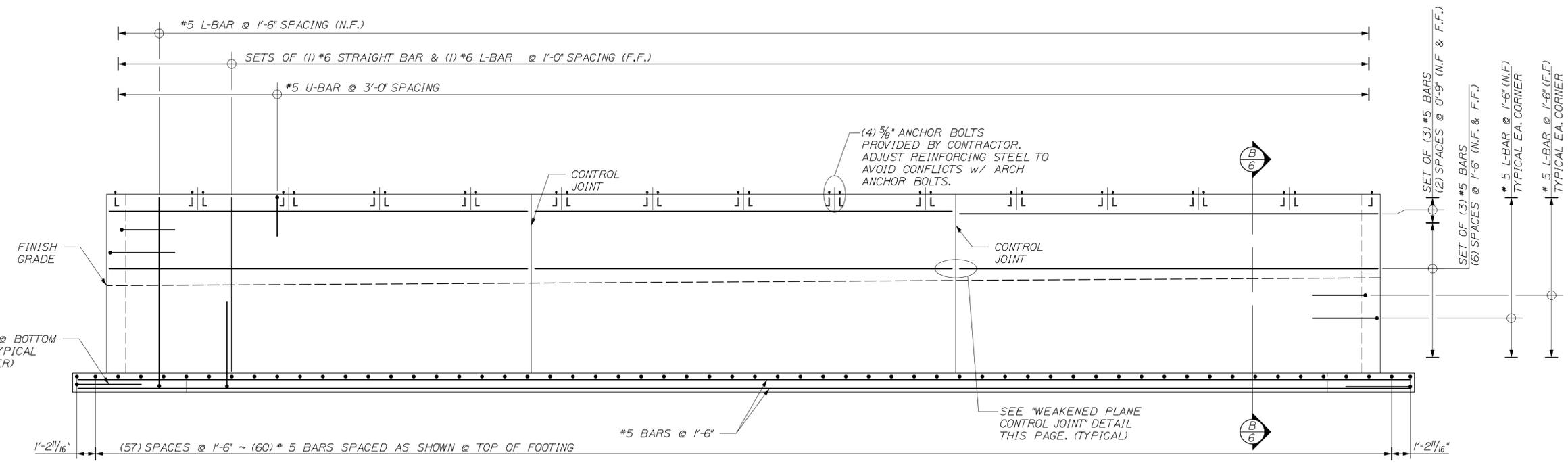
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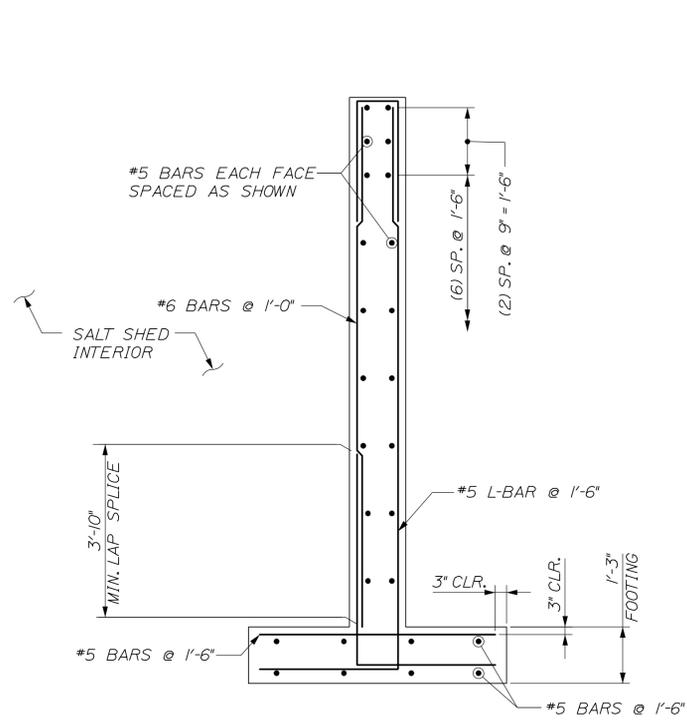
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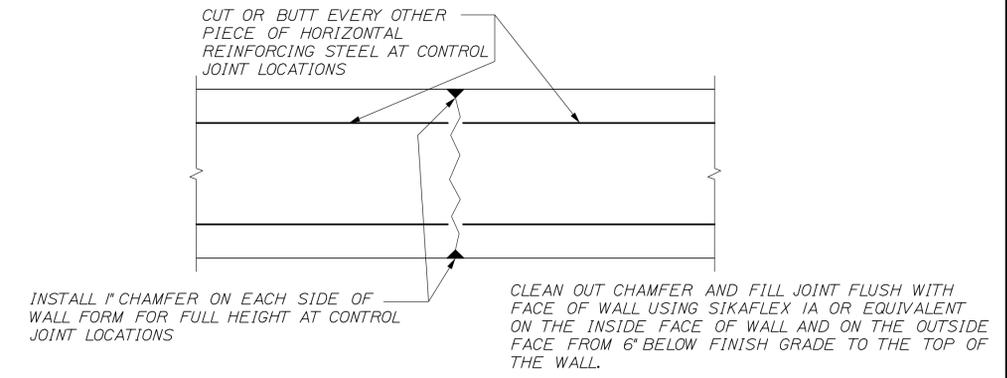
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**A**  
**6** SIDEWALL REINFORCING  
SCALE: 1/4" = 1'-0"  
TYPICAL FOR EAST AND WEST SIDEWALLS  
ARCHES NOT SHOWN



**B**  
**6** SIDEWALL REINFORCING SECTION  
SCALE: 1/2" = 1'-0"



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

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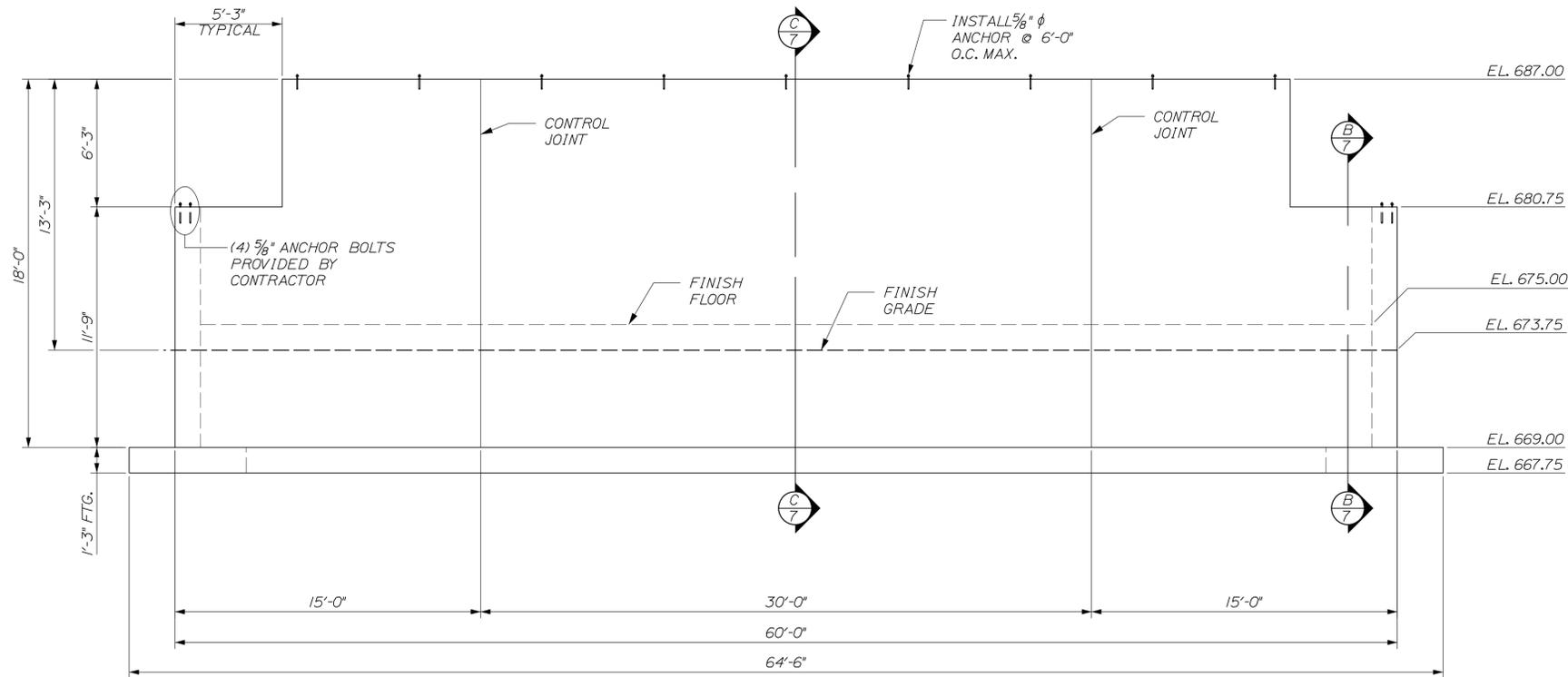
STA. 19849.00  
ERIC CALDERWOOD  
No. 9099  
LICENSED PROFESSIONAL ENGINEER  
P.E. NUMBER 9099  
DATE MAY 2013

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REVISIONS 4	CM
FIELD CHANGES	CM

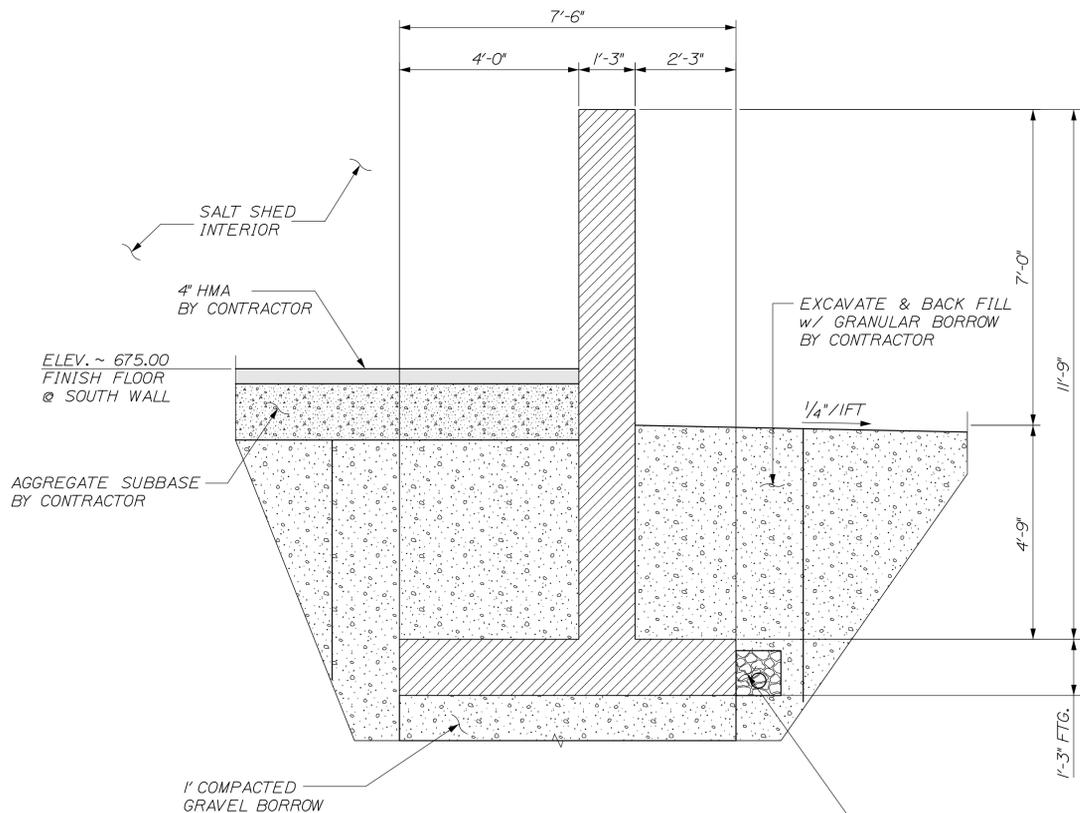
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SALT SHED  
EAST & WEST SIDEWALL  
REINFORCING DETAILS

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**6**  
OF 13

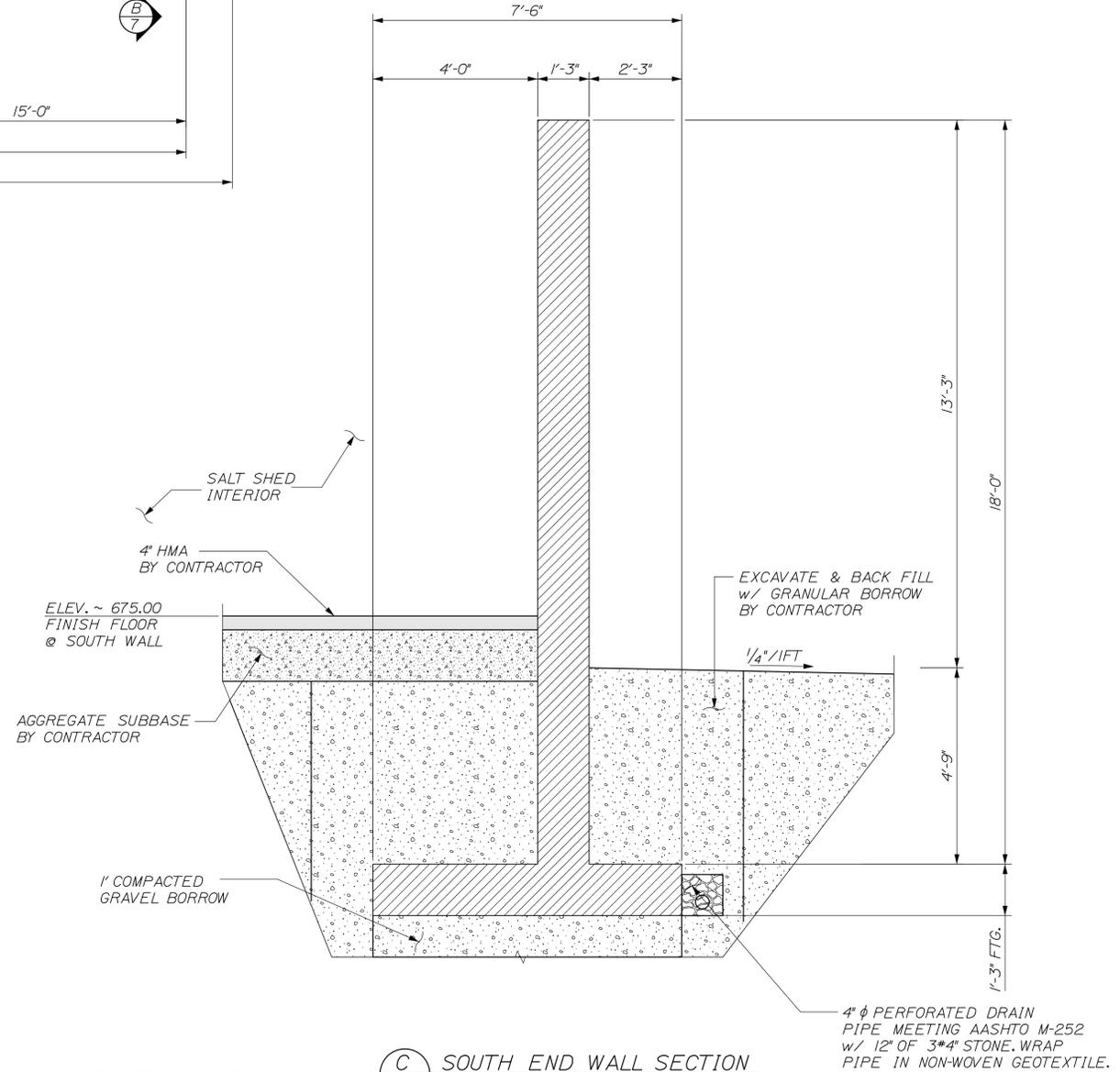




**A** SOUTH END WALL ELEVATION  
SCALE:  $\frac{1}{4}" = 1'-0"$



**B** SOUTH END WALL SECTION  
SCALE:  $\frac{1}{2}" = 1'-0"$



**C** SOUTH END WALL SECTION  
SCALE:  $\frac{1}{2}" = 1'-0"$

NOTES:

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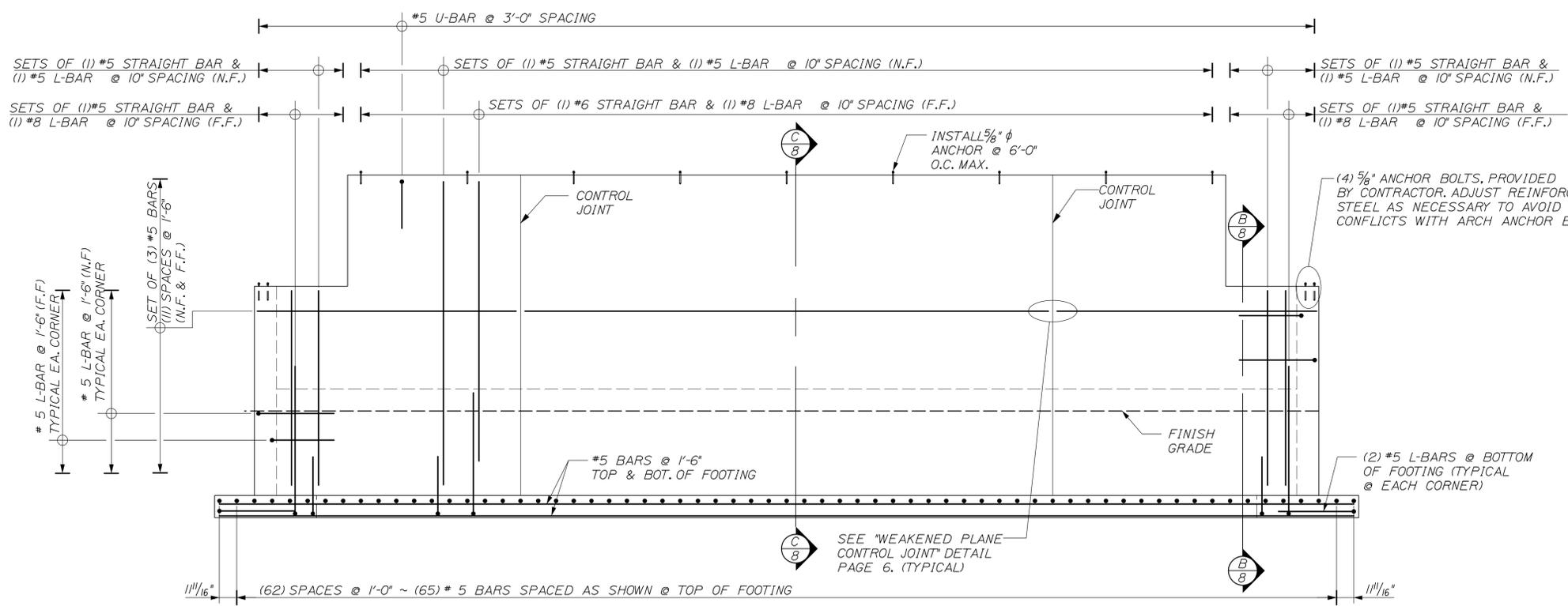
ERICK CALDERWOOD  
No. 9099  
LICENSED PROFESSIONAL ENGINEER  
P.E. NUMBER 9099  
DATE MAY 2013

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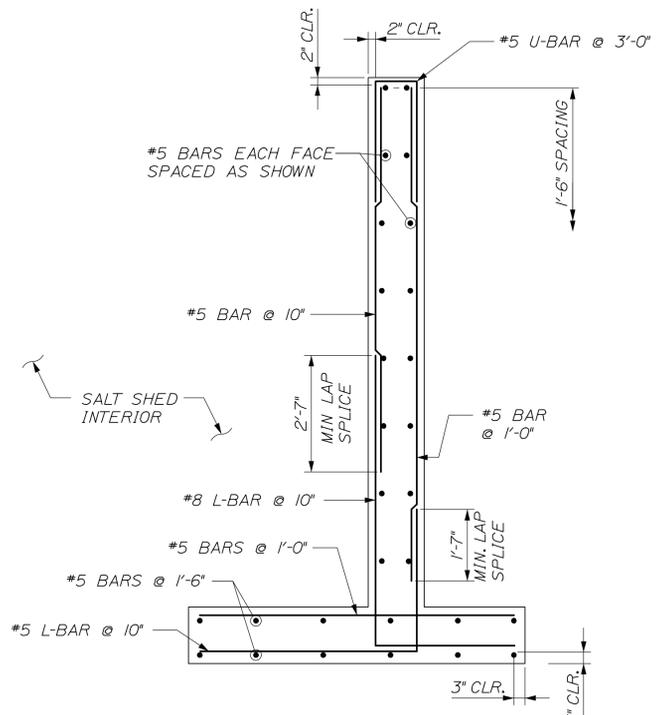
BETHEL MAINTENANCE SALT SHED  
SOUTH END WALL DIMENSIONAL DETAILS

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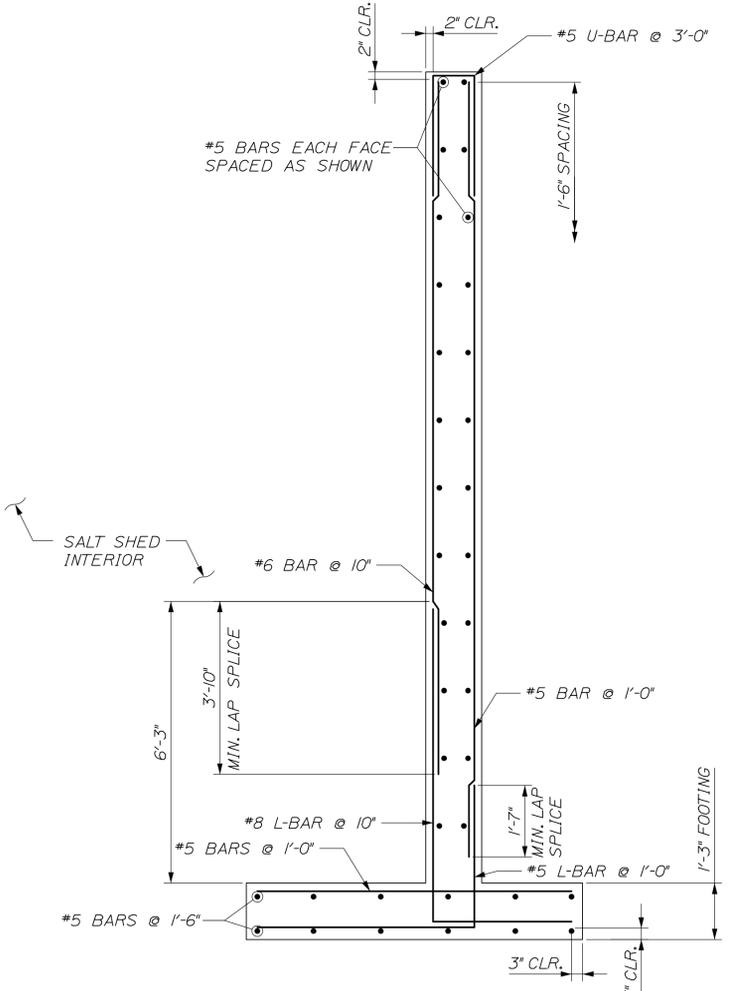




**A** SOUTH END WALL REINFORCING  
SCALE: 1/4" = 1'-0"



**B** SOUTH END WALL REINFORCING SECTION  
SCALE: 1/2" = 1'-0"



**C** SOUTH END WALL REINFORCING SECTION  
SCALE: 1/2" = 1'-0"

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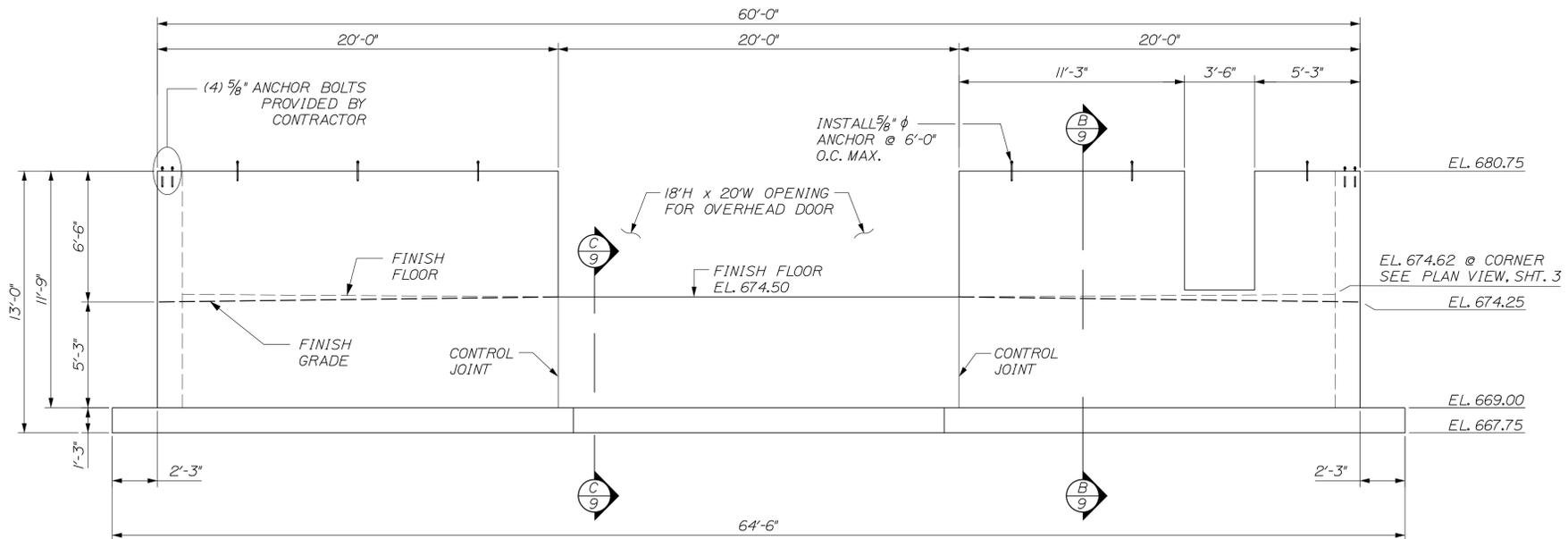
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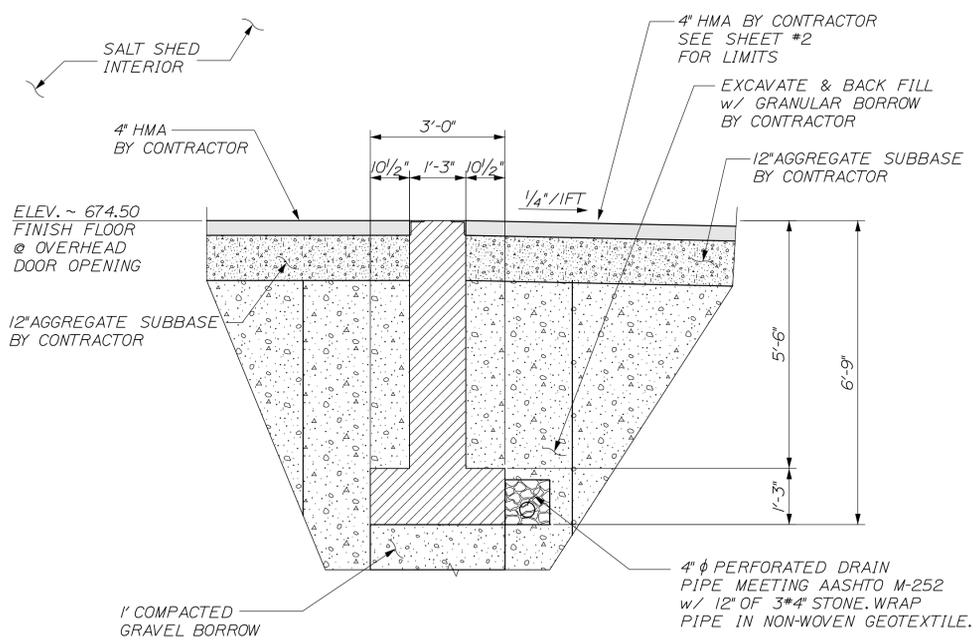
BETHEL MAINTENANCE  
SALT SHED  
SOUTH END WALL  
REINFORCING DETAILS

SHEET NUMBER  
**8**  
OF 13

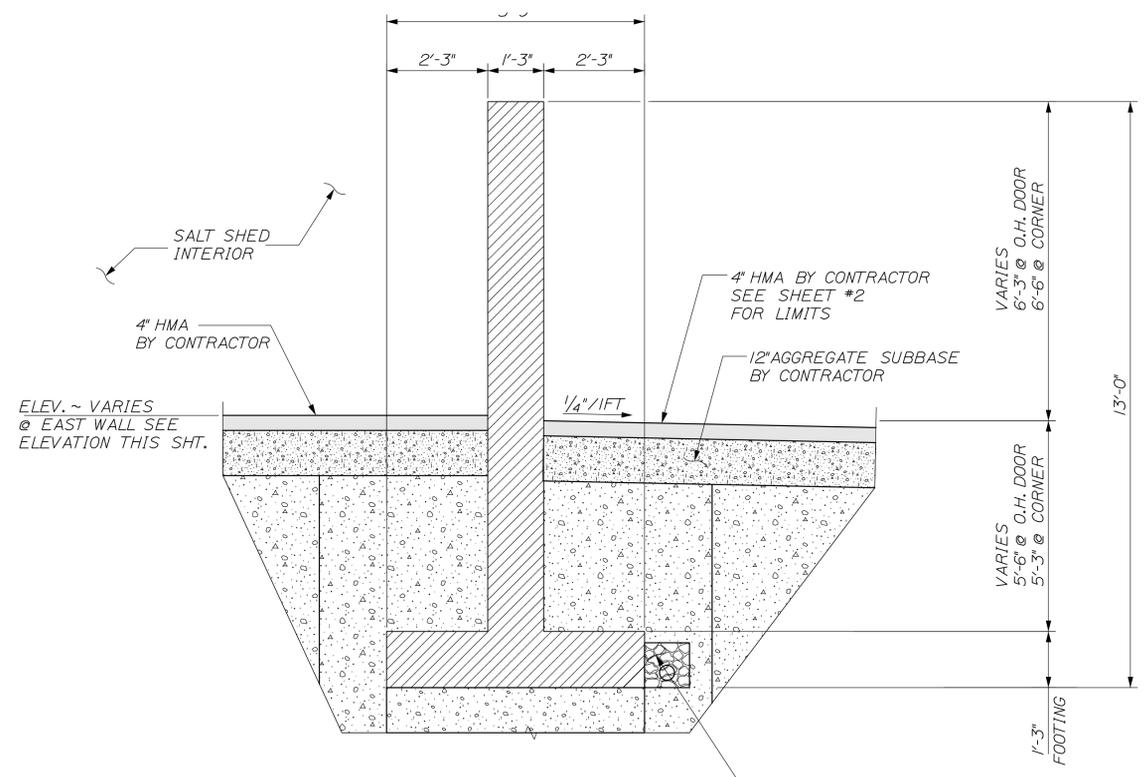




**A** NORTH END WALL ELEVATION  
SCALE: 1/4" = 1'-0"



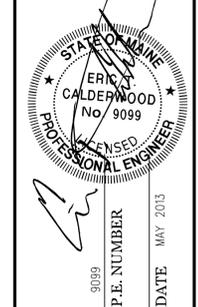
**C** SECTION @ OVERHEAD DOOR  
SCALE: 1/2" = 1'-0"



**B** NORTH END WALL SECTION  
SCALE: 1/2" = 1'-0"

- NOTES:**
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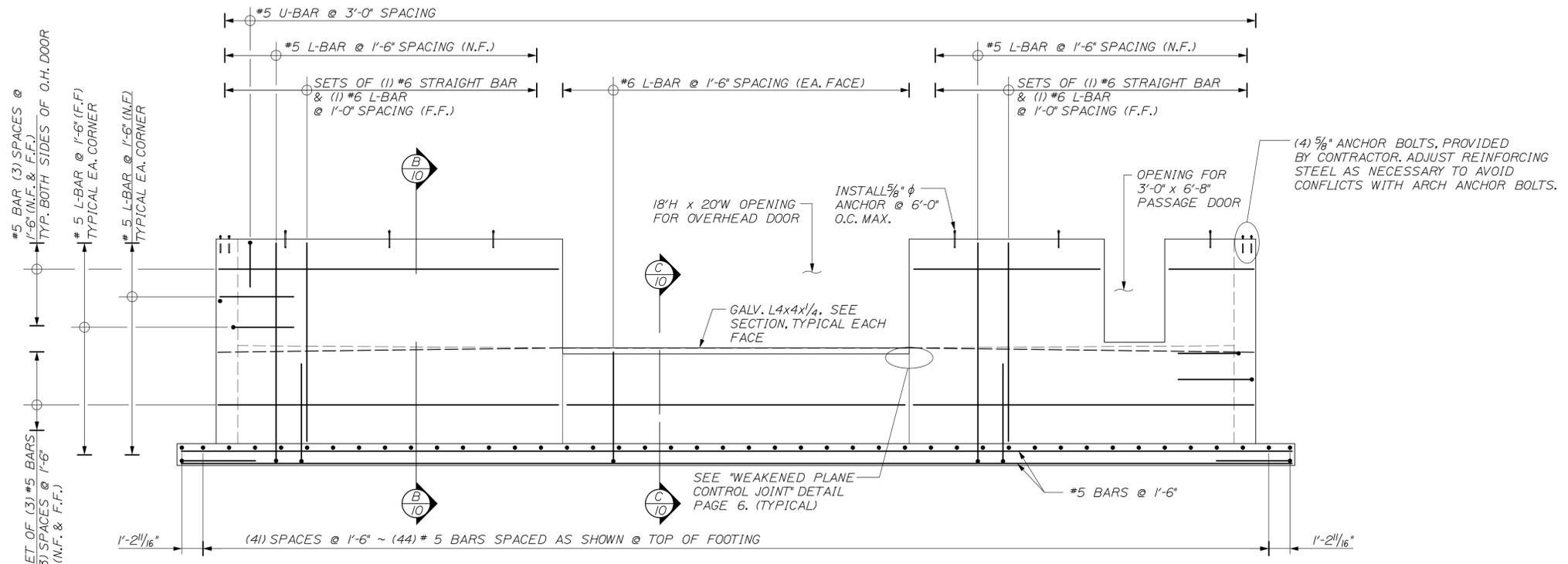
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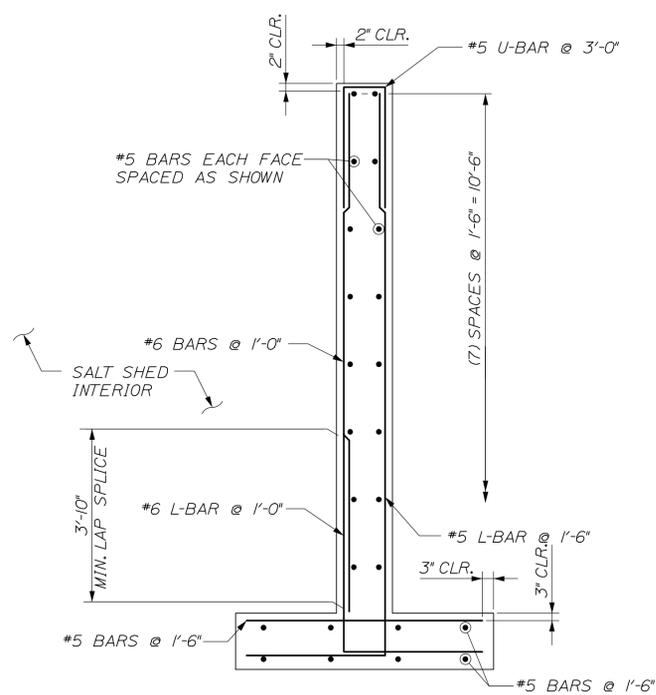
BETHEL MAINTENANCE  
SALT SHED  
NORTH END WALL  
DIMENSIONAL DETAILS



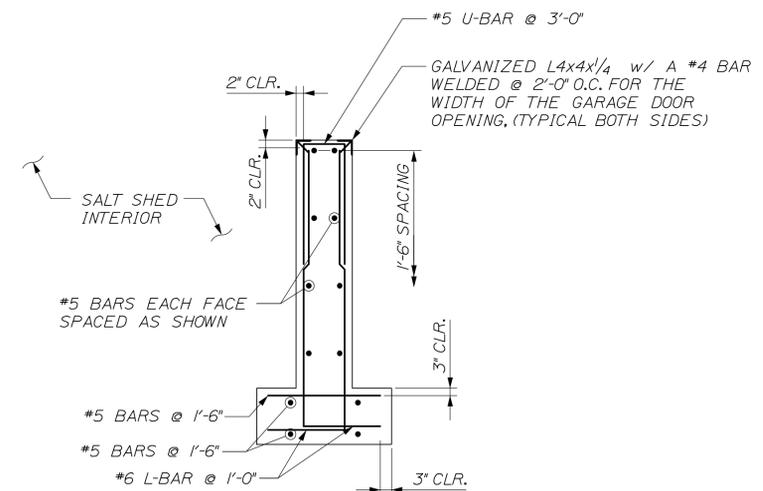


NOTE: CUT REINFORCING STEEL AS NECESSARY AT DOOR OPENINGS

**A** NORTH END WALL REINFORCING  
SCALE: 1/4" = 1'-0"



**B** NORTH END WALL REINFORCING SECTION  
SCALE: 1/2" = 1'-0"



**C** NORTH END WALL REINFORCING SECTION  
SCALE: 1/2" = 1'-0"

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BETHEL MAINTENANCE  
SALT SHED  
NORTH END WALL  
REINFORCING DETAILS

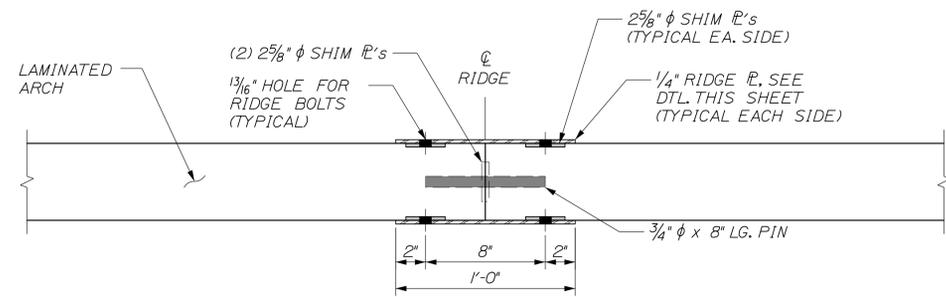
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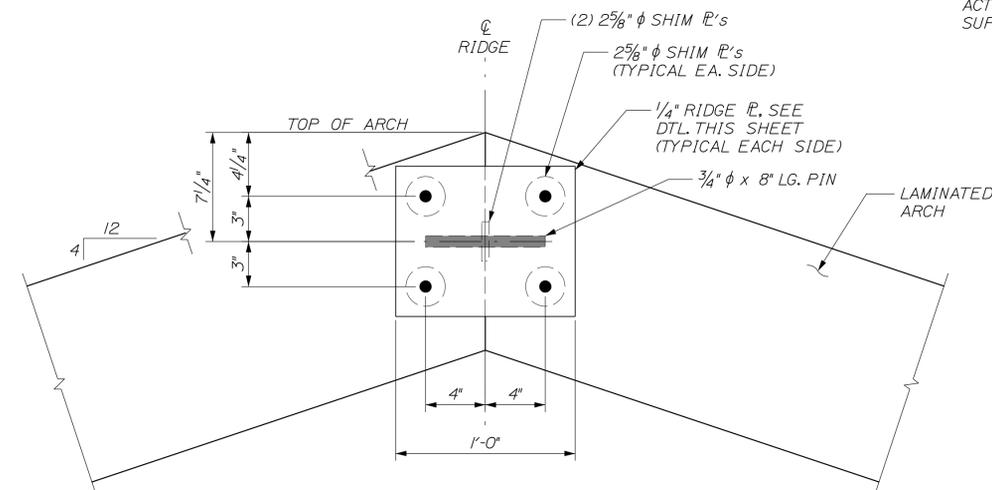
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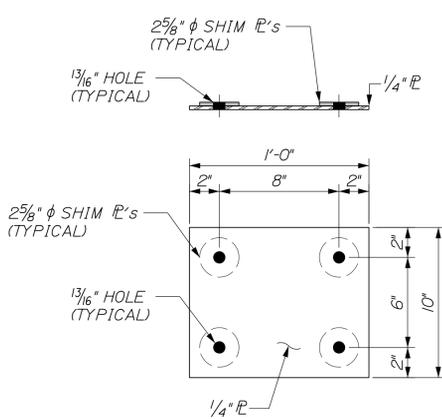


PLAN VIEW



ELEVATION VIEW

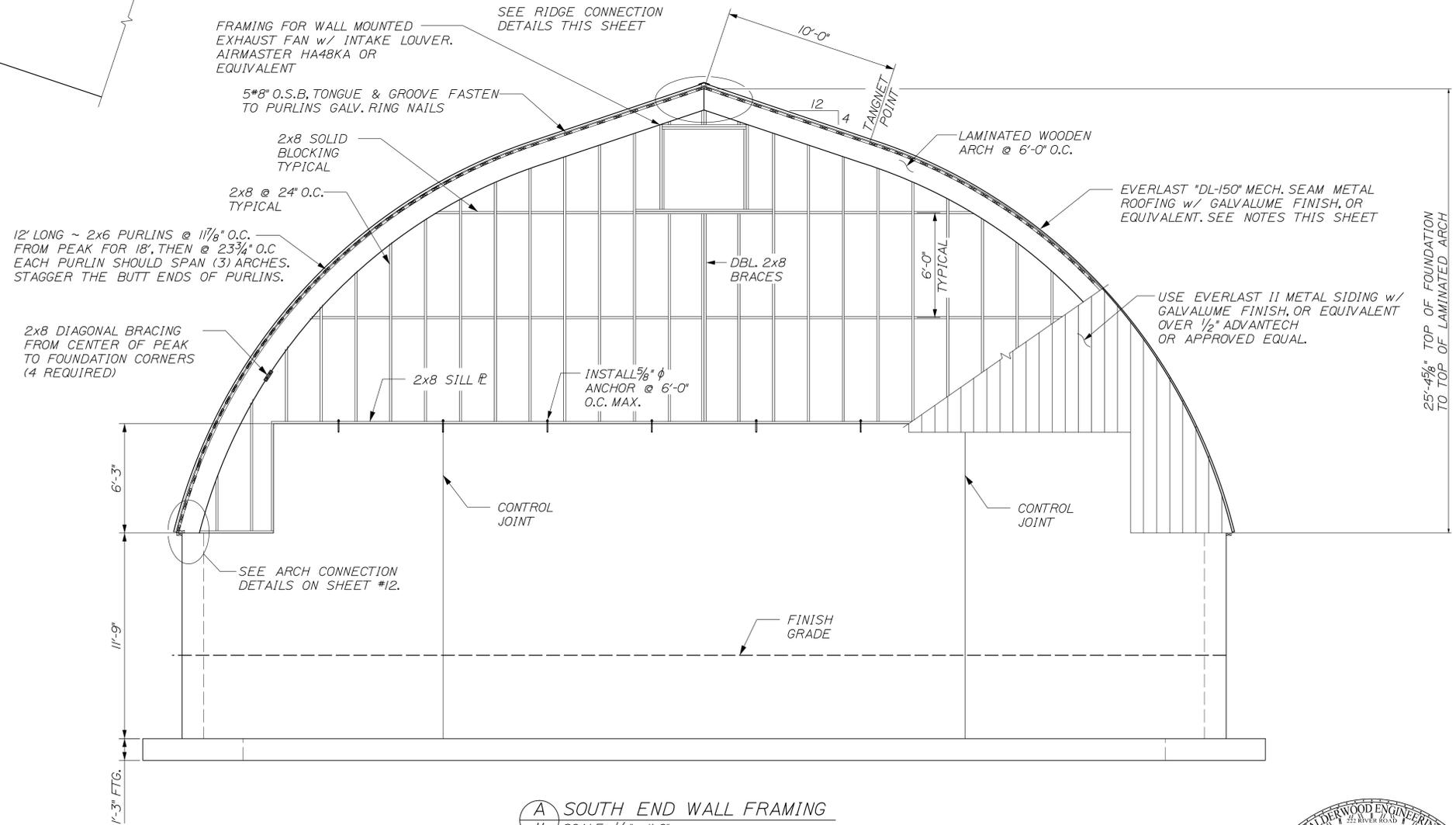
RIDGE CONNECTION  
SCALE: 2" = 1'-0"



RIDGE CONNECTION PLATE  
SCALE: 2" = 1'-0"

NOTE:  
RIDGE CONNECTION PLATE SHOWN IS AN EXAMPLE.  
COORDINATE WITH ARCH MANUFACTURER FOR  
ACTUAL PLATE TO BE USED.

NOTE:  
DEPENDING ON SIZE AND TYPE OF ARCH SELECTED,  
LOCATION OF CONNECTION BOLTS AND AND PINS  
AT THE RIDGE MAY CHANGE.  
ACTUAL RIDGE CONNECTION TO BE DESIGNED AND  
SUPPLIED BY ARCH MANUFACTURER.

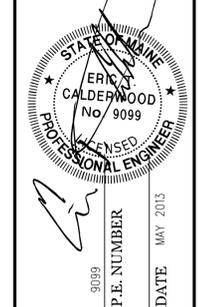


A SOUTH END WALL FRAMING  
SCALE: 1/4" = 1'-0"

METAL ROOFING NOTES:

1. THE SALT SHED IS TO BE ROOFED WITH THE EVERLAST DL-150 PRODUCT, OR AN EQUIVALENT PRODUCT. THIS PRODUCT USES DOUBLE-LOCK STANDING SEAM ROOF PANELS.
2. THE FINISH IS TO BE BARE GALVALUME.
3. THE PANELS ARE TO BE DELIVERED TO THE JOB SITE BY THE SUPPLIER IN STRAIGHT, UNFORMED PANELS. THE SUPPLIER WILL THEN FORM THE PANELS ON SITE TO THE SHAPE AND RADIUS OF THE ROOF. THE CONTRACTOR MAY BE REQUIRED TO PROVIDE ADDITIONAL MAN-POWER TO THE SUPPLIER TO AID IN MOVING THE PANELS.
4. NO BUTT SEAMS WILL BE ALLOWED ON THE ROOF. THE PANELS WILL BE FORMED FROM 1 PIECE THAT BEGINS AT THE BOTTOM OF THE ROOF AND CONTINUES ALL THE WAY TO THE RIDGE.
5. NO EXPOSED FASTENERS WILL BE ALLOWED ON THE ROOF PANELS.
6. PANELS MUST BE INSTALLED IN A SEQUENTIAL PATTERN.
7. A 30# ROOFING FELT OR AN APPROVED EQUAL SHOULD BE INSTALLED OVER SUBSTRATE PRIOR TO INSTALLATION OF PANELS AND ALSO BETWEEN CONCRETE WALL AND GABLE ENDS.
8. PANELS MUST BE LOCKED IN THE FIELD BY A MECHANICAL SEAMER.
9. IF PANELS REQUIRE STORAGE BEFORE BEING INSTALLED, THEY SHOULD BE STORED IN A WELL-VENTILATED, DRY PLACE WHERE NO MOISTURE CAN COME IN CONTACT WITH THEM. IF STORED OUTSIDE, COVER WITH VENTED TARP OR WATERPROOF PAPER COVER (NOT PLASTIC). KEEP MATERIAL OFF THE GROUND.

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BETHEL MAINTENANCE  
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SOUTH END WALL  
FRAMING DETAILS

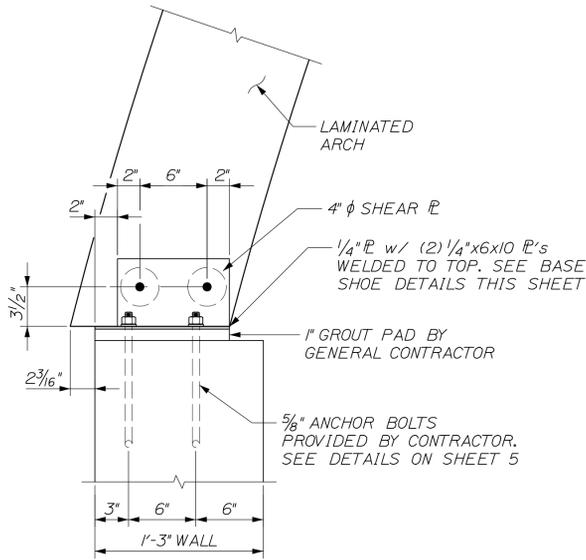
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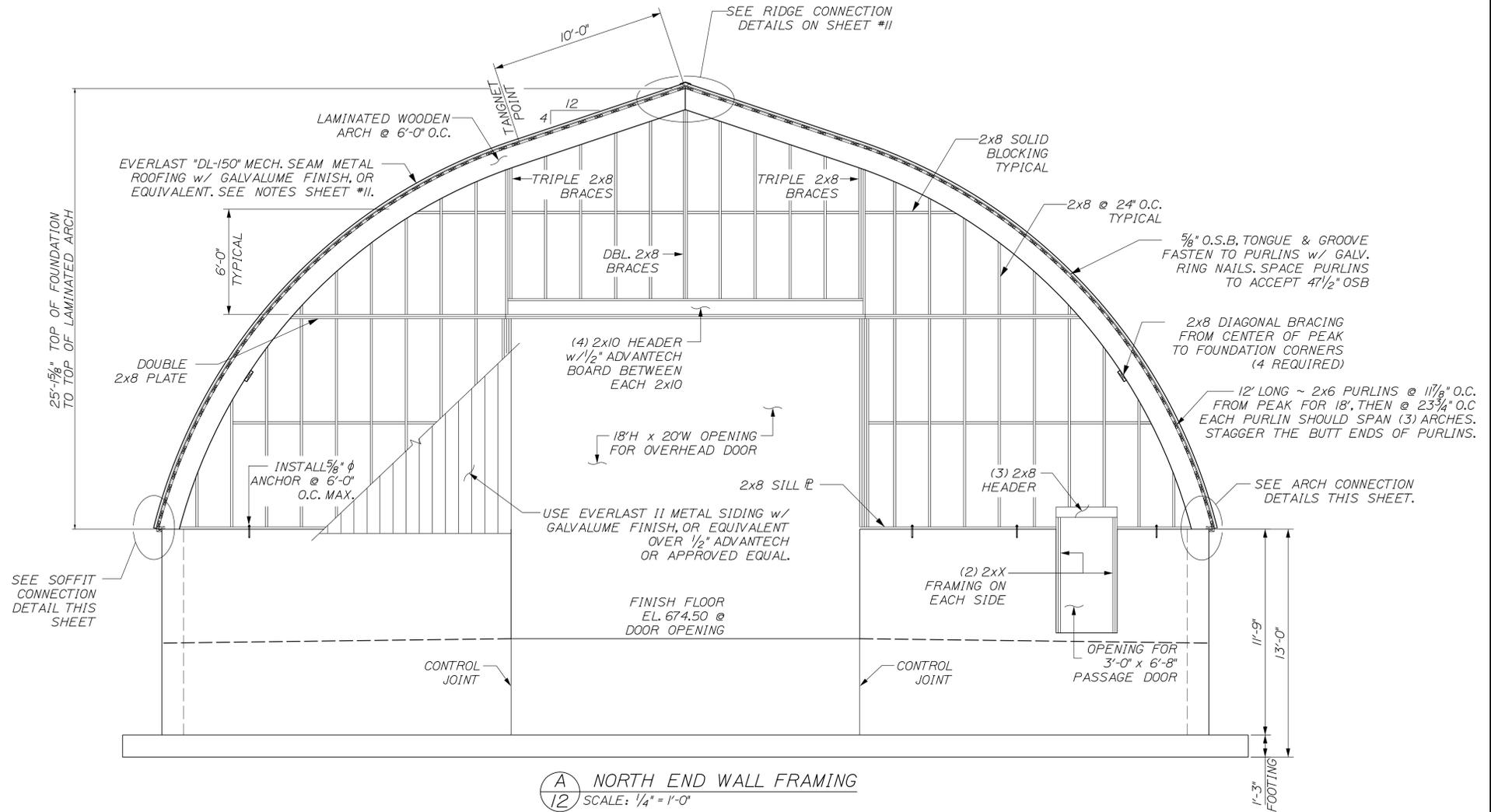
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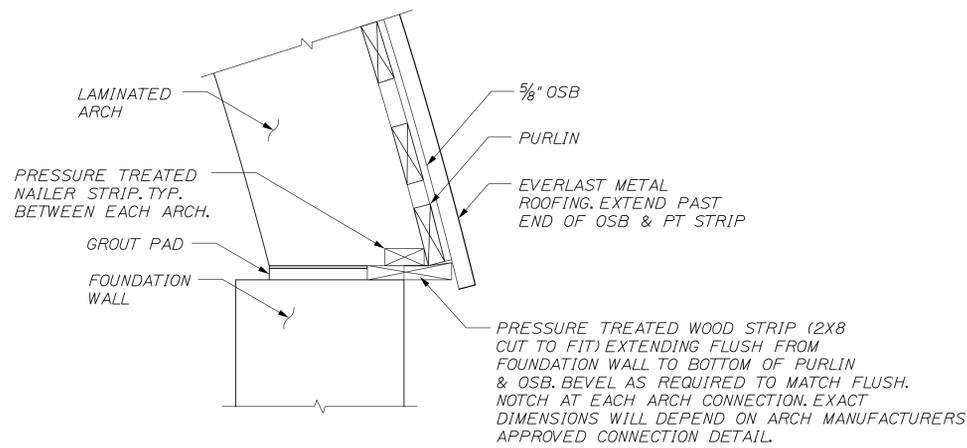


**TYPICAL ARCH TO FOUNDATION CONNECTION**  
SCALE: 1/2" = 1'-0"

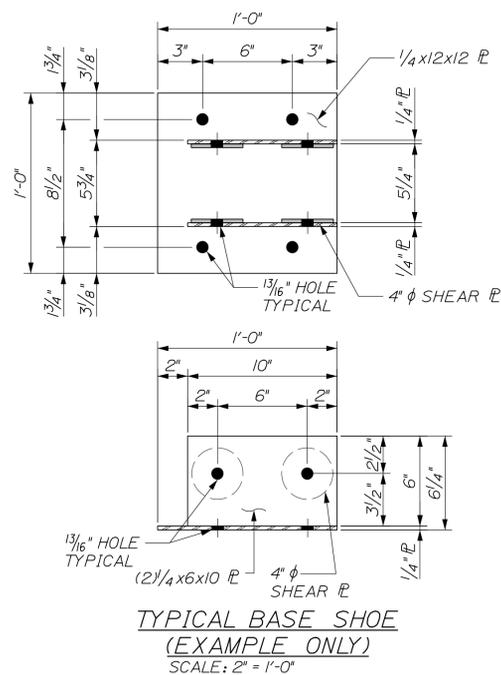
NOTE: DEPENDING ON SIZE AND TYPE OF ARCH SELECTED, ANCHOR BOLT LAYOUT MAY CHANGE. ACTUAL ANCHOR BOLT LAYOUT TO BE COORDINATED WITH THE LAMINATED ARCH MANUFACTURER. GENERAL CONTRACTOR IS RESPONSIBLE FOR CHECKING LAYOUT OF ANCHOR BOLTS WITH ARCH BASE PLATES TO ENSURE A PROPER FIT. BASE SHOES, SHEAR PLATES, AND ARCH BOLTS TO BE DESIGNED AND SUPPLIED BY ARCH MANUFACTURER.



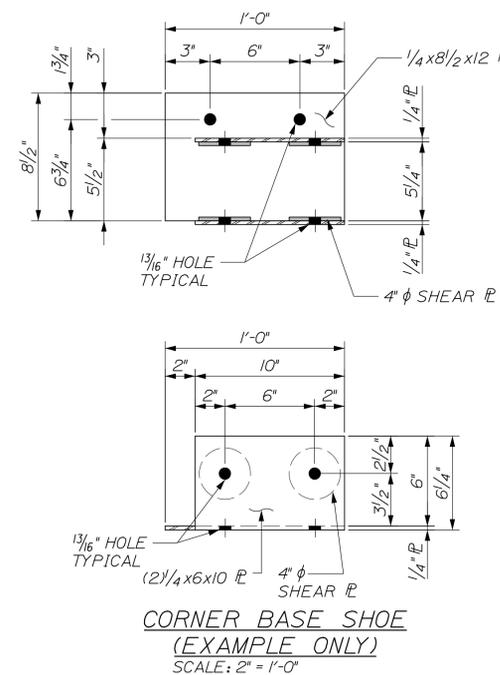
**A NORTH END WALL FRAMING**  
SCALE: 1/4" = 1'-0"



**SOFFIT CONNECTION**  
1/2" = 1'-0"



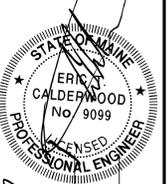
**TYPICAL BASE SHOE (EXAMPLE ONLY)**  
SCALE: 2" = 1'-0"



**CORNER BASE SHOE (EXAMPLE ONLY)**  
SCALE: 2" = 1'-0"

NOTE: BASE SHOES SHOWN ARE EXAMPLES. COORDINATE WITH ARCH MANUFACTURER FOR ACTUAL SHOES TO BE USED.

CALDERWOOD ENGINEERING, ETC.  
STRUCTURAL ENGINEERING • DETAILING SERVICES  
222 RIVER RD., RICHMOND, ME 04857 PH/FX (207) 737-2007/(207) 737-2008  
PREPARED FOR: STATE OF MAINE DOT  
BETHEL, ME SALT SHED WIN 19849.00



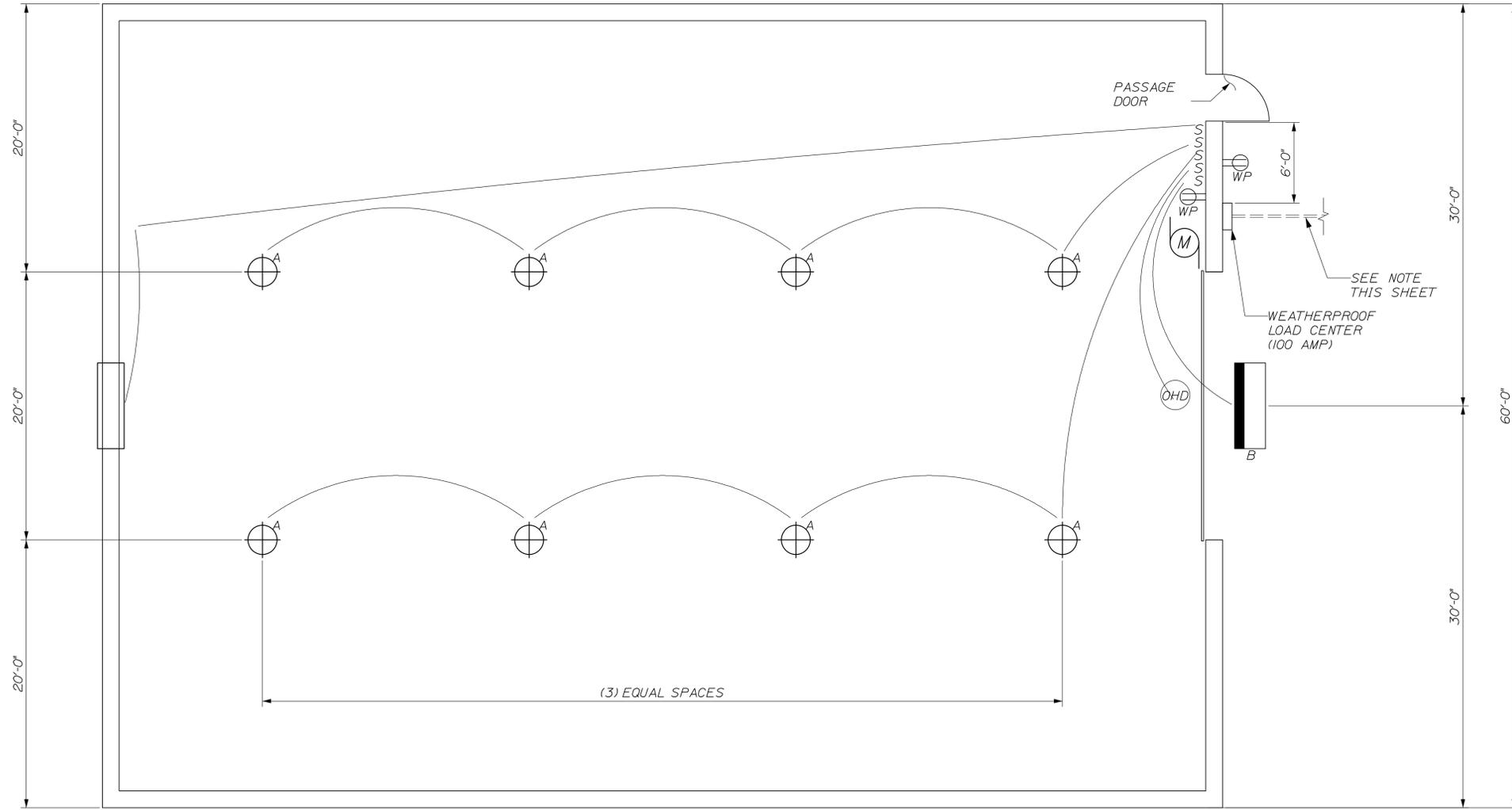
DATE: MAY 2013  
P.E. NUMBER: 9099

DESIGN/REVIEWED	DATE
CM	MAY 2013

BETHEL MAINTENANCE SALT SHED  
NORTH END WALL FRAMING DETAILS

SHEET NUMBER  
**12**  
OF 13





**A**  
**13** ELECTRICAL FLOOR PLAN  
3/16"=1'-0"

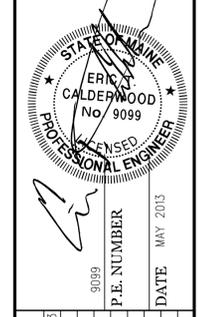
ELECTRICAL LEGEND	
	H.E. WILLIAMS, 5' DEEP, FULLY ENCLOSED INDUSTRIAL LIGHT FIXTURE. MODEL #92-8-454TSH-A-EB2/2-SSLATCH-SSMB W/ ATTACHED HUBBELL FIXTURE MOUNTED OCCUPANCY SENSORS
	250W METAL HALIDE FLOOD LIGHT EQUIV. TO LUMARK NIGHTHAWK III W/ PHOTOCELL AND SWITCH.
	WEATHERPROOF SWITCH
	GFCI RECEPTACLE W/ WEATHERPROOF COVER
	OVERHEAD DOOR OPERATOR
	EXHAUST FAN

POWER TO BE INSTALLED UNDERGROUND IF POSSIBLE. CONTRACTOR SHALL PRICE AS SUCH. SEE SHEET 2 FOR DETAILS

CONDUIT SHALL BE INSTALLED BELOW GRADE. EACH END OF CONDUIT SHALL BE CAPPED AND PROTRUDE ABOVE FINISH GRADE BY 2 FEET.

FAN ON BACKWALL, OHD OPENER AND LIGHTS SHALL BE WIRED AND HOOKED UP FOR POWER AS INDICATED.

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WIN 19849.00



DESIGN	DATE
RETAINED	
CHECKED	MAY 2013
REVIEWED	
BY	
CNM	
DATE	
P.E. NUMBER	9099
DATE	MAY 2013
REVISIONS 1	
REVISIONS 2	
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

BETHEL MAINTENANCE  
SALT SHED  
ELECTRICAL PLAN

SHEET NUMBER  
**13**  
OF 13

