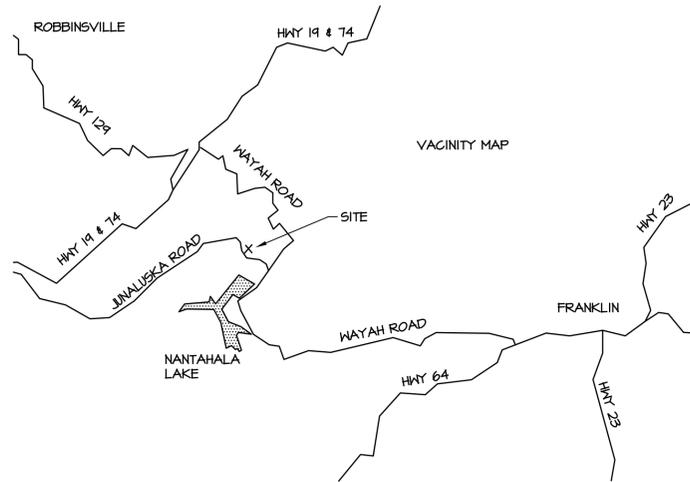


GENERAL NOTES:

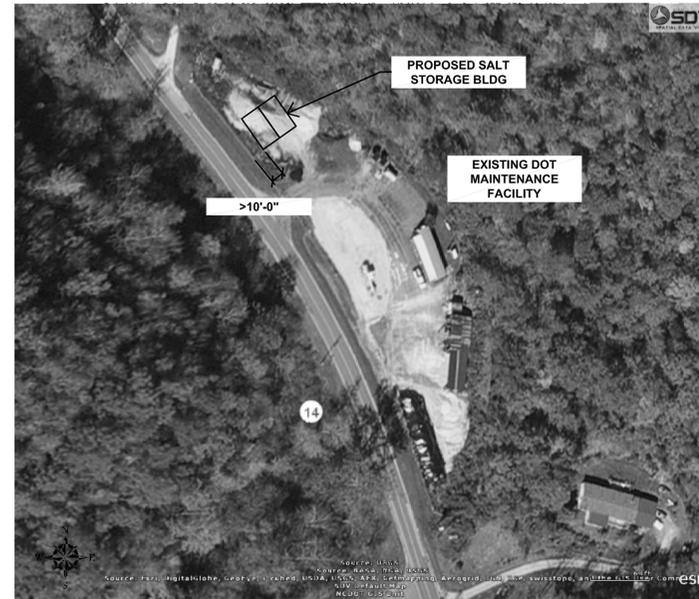
- A. GENERAL**
- See specifications for further information. In case of conflict between specifications & drawings, contact architect for resolution.
 - Contractor is responsible for coordination & distribution of all changes in contract documents to all subcontractors.
 - Contractor shall verify all field conditions, elevations, & dimensions prior to construction. Do not scale from plans.
 - Means & methods of construction, including temporary bracing, shoring, & jobsite safety, are the responsibility of the contractor.
 - Structural frame shall be braced until erection is complete & permanent connections & bracing are installed.
 - Provide silt fence or other erosion & sediment control measures as required.
 - If demolition is included in project, sawcut all edges of existing slab and asphalt to remain adjacent to new construction.
- B. FOUNDATION**
- Footing excavations shall be reviewed by a geotechnical engineer or construction testing agency approved by the architect or engineer.
 - Footing depths shown are based on geotechnical investigation or presumptive soil properties. Soft or unsuitable soils shall be removed & replaced with suitable fill as specified.
 - Under slabs & footings, remove all topsoil, trash, & organic material, & replace with select fill compacted to 95% maximum density as measured by the Standard Proctor Method (ASTM 698) in 12 inch maximum lifts. The top 12" shall be compacted to 98% maximum density.
 - Contractor is responsible for shoring while excavating near existing structures.
- C. CONCRETE**
- Compressive strength of concrete shall be as noted on plans.
 - Coordinate floor slopes and depressions with arch and plumbing plans. Maintain specified slab thickness below depressed or sloped areas.
 - Retain forms in place on cast in place walls, or provide other means to cure for seven days.
 - If not specified on plans, provide sawed slab control joints in slabs on grade spaced at not more than 48 times the slab thickness.
 - Reinforcing steel shall meet ASTM A 615, Grade 60.
 - Welded wire reinforcement shall conform to ASTM A 185 & A 82.
 - Grout under all columns & beam bearing plates with non-shrink, non-metallic grout which meets ASTM C 1107.
 - Clear distance from face of concrete to main reinforcing:
 - Suspended slabs and joists: 1"
 - Grade beams, pedestals, columns, walls: 2"
 - Footings & walls cast against earth: 3"
 - Provide (2) #4 x 48" diagonal corner bars at center of slab at all corners of floor slab openings.
 - Lap all reinforcement splices 48 bar diameters, UON.
 - Detailing, fabrication, & installation of reinforcing steel shall conform to ACI "Manual of Standard Practice for Detailing Reinforced Concrete Structures" (ACI 315).
 - Workmanship, tolerances, & concrete placement shall conform to "Standard Specifications for Structural Concrete" (ACI 301).
 - Chamfer exposed edges of concrete 3/4", UON.
 - Anchor bolts shall conform to ASTM F 1554, Grade 36, & galvanized.
 - See architectural plans for floor finishes. Coordinate slab curing & sealing compounds with flooring materials.

- D. WOOD**
- Structural lumber shall be SPF #2 or better, UON. Wood for fabricated trusses shall be SYP #2 or better, except that webs may be SYP #3.
 - Wood in contact with concrete or masonry shall be treated.
 - Straps, ties, hangers, & other connection hardware shall be galvanized.
 - Connections not otherwise detailed shall be in accordance with Tables 2304.9.1.1 thru 2304.9.1.6 of the NC State Building Code.
 - Trusses shall be designed for the full dead & live loads specified in the contract. Submit truss shop drawings bearing the seal of a registered professional engineer licensed in the state of NC. Show truss layout & truss designs including required bracing. Bracing design is the truss designer's responsibility.
 - Contractor shall install both temporary and permanent bracing. Note that permanent bracing is often shown on individual truss calculation pages instead of the truss layout sheet, especially where there is no hard ceiling applied to truss.
 - Additional bracing may be required by engineer of record as indicated on plans for support of gable walls or other items.
 - Install blocking in walls & ceiling where required for partitions, fixtures, & other misc items. Coordinate with all trades.



TWO-BAY SALT STORAGE SHED

SITE LAYOUT



**HIGHWAY DIVISION 14, NCDOT
MACON COUNTY, NC
SCO ID# 09-07377-01M**

INDEX OF DRAWINGS

- T1 TITLE SHEET & CODE SUMMARY
- T2 SITE LAYOUT
- S1 FOUNDATION & FRAMING PLANS
- S2 WALL SECTIONS
- S3 DETAILS & ELEVATIONS

NO WATERCOURSE OR 100 YEAR FLOODPLAIN AS MAPPED BY FEMA OR AS DEFINED BY ANY FEDERAL, STATE, OR LOCAL AUTHORITY IS LOCATED ON THIS PROPERTY.

BUILDING ENERGY CODE SUMMARY

FOR ALL COMMERCIAL PROJECTS
ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If energy cost budget method, state the annual energy cost budget vs. allowable annual energy cost budget.

THERMAL ENVELOPE

Method of Compliance:
 Prescriptive Performance C-

Roof/Ceiling Assembly (each assembly)

Description of assembly

U-Value of total assembly
R-Value of insulation
Skylights in each assembly
U-Value of skylight
Total square

Walls adjacent to unconditioned space (each assembly)

Description of assembly

U-Value of total assembly
R-Value of insulation
Openings (windows or doors with glazing)
U-Value of assembly
Low e required, if applicable
Door R-Values

Walls below grade (each assembly)

Description of assembly

U-Value of total assembly
R-Value of insulation

Floors over unconditioned space (each assembly)

Description of assembly

U-Value of total assembly
R-Value of insulation

Floor slabs on grade (each assembly)

Description of assembly

U-Value of total assembly
R-Value of insulation
Horizontal/Vertical requirement
Slab heated

**NOT APPLICABLE:
OPEN AIR LOW ENERGY
BUILDING**

2012 APPENDIX B BUILDING CODE SUMMARY

Name of Project: TWO-BAY SALT STORAGE BUILDING
Address: 1401 JUNALUSKA ROAD, TOPTON, NC 28781
Proposed Use: UTILITY
Owner or Authorized Agent: HIGHWAY DIVISION 14 Phone # 828-524-2517
Owned By: STATE OF NORTH CAROLINA City/County Private State
Code Enforcement Jurisdiction: City County

LEAD DESIGN PROFESSIONAL:
DESIGNER FIRM NAME LICENSE # TELEPHONE # E-MAIL
Architectural FACILITIES DESIGN, NCDOT
SITE "Civil"
Electrical
Plumbing
Mechanical
Sprinkler-Standpipe
Structural NCDOT MIKE MOUNTCASTLE 17326 (919) 707-4547 mdmountcastle@ncdot.gov

2012 EDITION OF NC CODE FOR: New Construction Addition UpR
EXISTING: Reconstruction Alteration Repair
CONSTRUCTED ORIGINAL USE RENOVATED CURRENT USE

BUILDING DATA
Construction Type: I-A I-B II-A II-B III-A III-B IV V-A V-B
 I-C I-D II-C II-D III-C III-D IV-C IV-D V-C V-D
Mixed construction: No Yes Types NFPA 13R NFPA 13D
Sprinklers: No Partial Yes NFPA 13 NFPA 13R NFPA 13D
Standpipes: No Yes Class I II III Wet Dry
Fire District: No Yes Flood Hazard Area: No Yes
Building Height: Feet: 25'-0" Number of Stories: 1
Mezzanine: No Yes
Gross Building Area:
FLOOR EXISTING (SQ FT) NEW (SQ FT) SUB-TOTAL
1st Floor 1763 1763 1763
TOTAL 1763 1763 1763

ALLOWABLE AREA
Primary Occupancy: Assembly A-1 A-2 A-3 A-4 A-5
 Business Educational Factory F-1 Moderate F-2 Low
Hazardous H-1 Detonate H-2 Deflagrate H-3 Combust H-4 Health H-5 HPM
Institutional I-1 I-2 I-3 I-4
I-3 Condition 1 2 3 4 5
 Mercantile Residential R-1 R-2 R-3 R-4
Storage S-1 Moderate S-2 Low High-piled
 Utility and Miscellaneous Parking Garage Open Enclosed Repair Garage
Secondary Occupancy: N/A
Mixed Occupancy: No Yes Separation: _____ Hr. Exception: _____

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 503 AREA	(C) AREA FOR OPEN SPACE INCREASE	(D) AREA FOR SPRINKLER INCREASE	(E) ALLOWABLE AREA OR UNLIMITED	(F) MAXIMUM BUILDING AREA
1	Utility & Misc.	1763	5500	NOT USED	NOT USED	5500	5500

ALLOWABLE HEIGHT

TYPE	V-B	ALLOWABLE (TABLE 503)	INCREASE FOR SPRINKLERS	SHOWN ON PLANS	CODE REFERENCE
Building height in feet	Feet	40	Feet+H/20 = N/A	Feet 20'-1"	503
Building Height in Stories	Stories	1	Stories+1 = N/A	Stories 1	503

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING		DETAIL & SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR PENETRATION	DESIGN # FOR RATED JOINTS
		REQ'D	PROVIDED W/ REDUCT				
Structural frame, including columns, girders, & trusses	>10	0	0				
Exterior walls	-	0	0				
Interior Walls and partitions	-	0	0				
Roof construction	>10	0	0				

* Indicate section number permitting reduction

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting:	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes
Exit Signs:	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes
Fire Alarm:	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes
Smoke Detection Systems:	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes
Panic Hardware:	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes

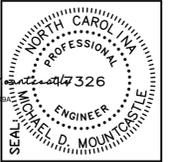
EXIT REQUIREMENTS N/A

STRUCTURAL DESIGN

DESIGN LOADS:
Importance Factors: Wind (I_w) 1.0 Live Loads: Roof 20 psf
Snow (I_s) 1.0 Mezzanine N/A psf
Seismic (I_e) 1.0 Floor 800 psf
Snow Load: 15 psf
Wind Load: Basic Wind Speed 90 mph (ASCE-7-05)
Exposure Category B
Wind Base Shears (for MWFRS) V_x = _____ V_y = _____

SEISMIC DESIGN:
Compliance with Section 1616.4 only? YES NO
SEISMIC DESIGN CATEGORY: A B C D
Provide the following Seismic Design Parameters:
Occupancy Category: I II III IV
Spectral Response Acceleration S_s 44.1 %g S₁ 11.1 %g
Site Classification 0 Field Test Presumptive
Basic structural system (check one)
 Bearing Wall Dual w/Special Moment Frame
 Building Frame Dual w/Intermediate R/C or Special Steel
 Moment Frame Inverted Pendulum
Seismic base shear V_s = _____ V_w = _____
Analysis Procedure: Simplified Equivalent Lateral Force Modal
Architectural, Mechanical, Components anchored? N/A
LATERAL DESIGN CONTROL: Earthquake Wind Special Inspection Required?
SOIL BEARING CAPACITIES: Field Test Presumptive 1000 psi Yes No

PLUMBING, ENERGY, & MECHANICAL SUMMARIES - NOT APPLICABLE



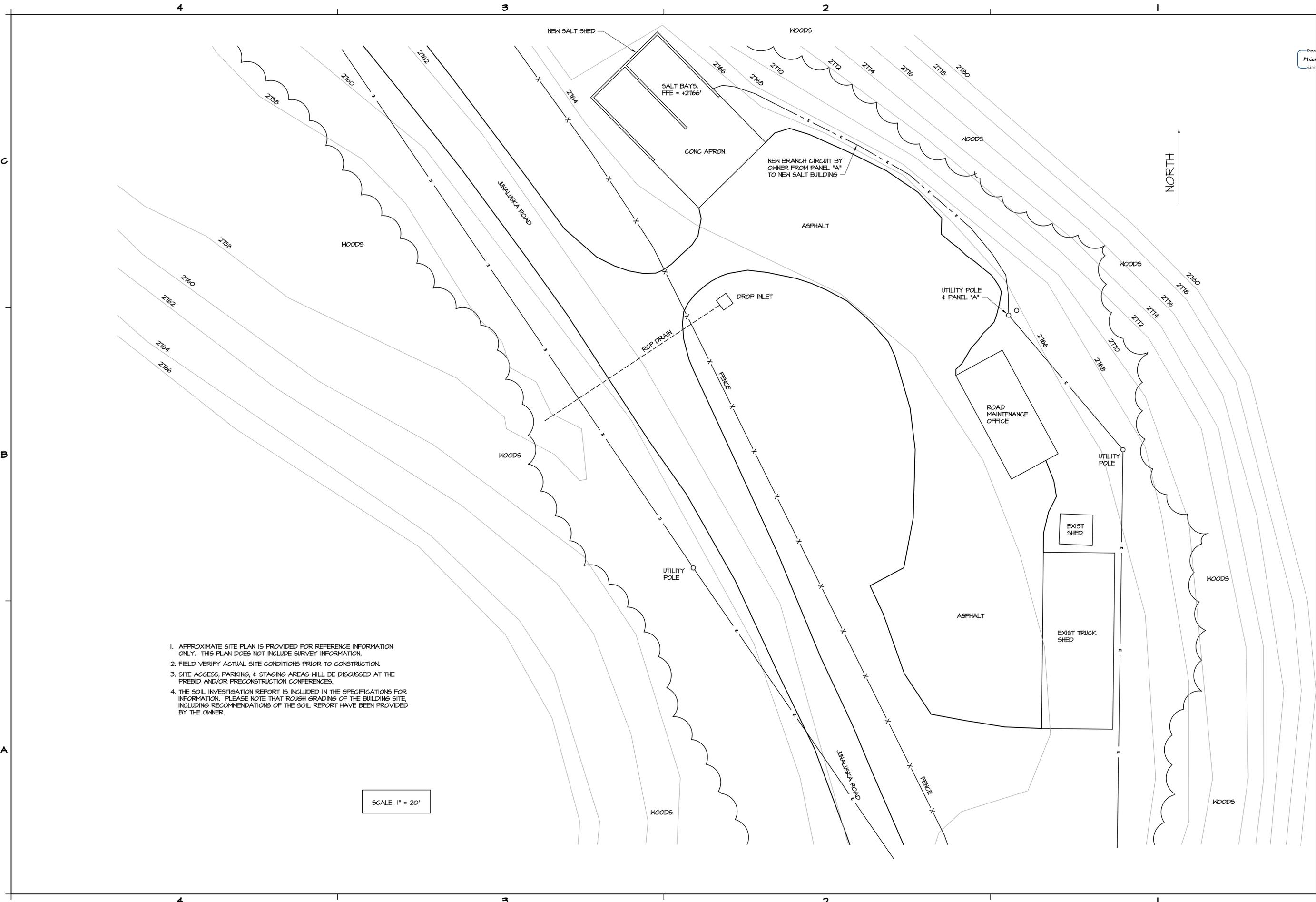
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**FACILITIES DESIGN
ARCHITECTS & ENGINEERS
GENERAL SERVICES DIVISION, NCDOT**
1 SOUTH WILMINGTON STREET
919/775-0400 FAX: 919/775-0399
RALEIGH, NORTH CAROLINA 27601



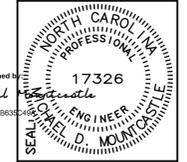
**TWO-BAY SALT SHED
DIVISION 14, NCDOT
MACON COUNTY, NC**

PROJECT: SCO ID#: 09-07377-01M
REVISIONS
NO. DATE
DATE ISSUED: 11-17-15
DRAWN BY: MDM
CHECKED BY: MDM
SHEET NO. **T1**
1 OF 2



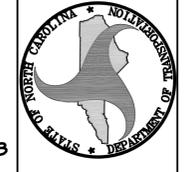
1. APPROXIMATE SITE PLAN IS PROVIDED FOR REFERENCE INFORMATION ONLY. THIS PLAN DOES NOT INCLUDE SURVEY INFORMATION.
2. FIELD VERIFY ACTUAL SITE CONDITIONS PRIOR TO CONSTRUCTION.
3. SITE ACCESS, PARKING, & STAGING AREAS WILL BE DISCUSSED AT THE PREBID AND/OR PRECONSTRUCTION CONFERENCES.
4. THE SOIL INVESTIGATION REPORT IS INCLUDED IN THE SPECIFICATIONS FOR INFORMATION. PLEASE NOTE THAT ROUGH GRADING OF THE BUILDING SITE, INCLUDING RECOMMENDATIONS OF THE SOIL REPORT HAVE BEEN PROVIDED BY THE OWNER.

SCALE: 1" = 20'



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 GENERAL SERVICES DIVISION, NCDOT
 1 SOUTH WILMINGTON STREET
 RALEIGH, NORTH CAROLINA 27601
 919/7715-0400 FAX: 919/7715-0399



TWO-BAY SALT SHED
DIVISION 14, NCDOT
MACON COUNTY, NC

PROJECT:

SCO ID#: 09-07377-01M

REVISIONS NO.	DATE

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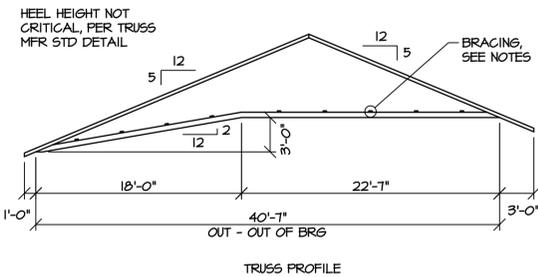
CHECKED BY: MDM

SHEET NO.

T2
 2 OF 2

NOTES:

1. PROVIDE TRUSS SHOP DRAWINGS SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NC, SHOWING TRUSS LAYOUT, TRUSS DESIGNS, & REQUIRED BRACING.
2. TRUSS MFR NOTE THERE IS NO CEILING & BOTTOM CHORD BRACING MAY BE REQUIRED. GC NOTE BOTTOM CHORD BRACING IS SHOWN ON TRUSS CALCULATION SHEET & IS IN ADDITION TO THE TEMPORARY BRACING.
3. ROOF SHEATHING SHALL BE 5/8" OSB OR PLYWOOD, ATTACHED W/ 10D NAILS @ 6" O.C. ON PANEL EDGES, & @ 8" O.C. AT INTERIOR.
4. SIDING, VENTED SOFFIT, & FASCIA SHALL BE PAINTED FIBER-CEMENT BOARD, COLOR SELECTION BY OWNER.
5. BM-1 = 5'-1/2" X 16" GLULAM, 24F-V4, BALANCED, & PRESSURE TREATED.



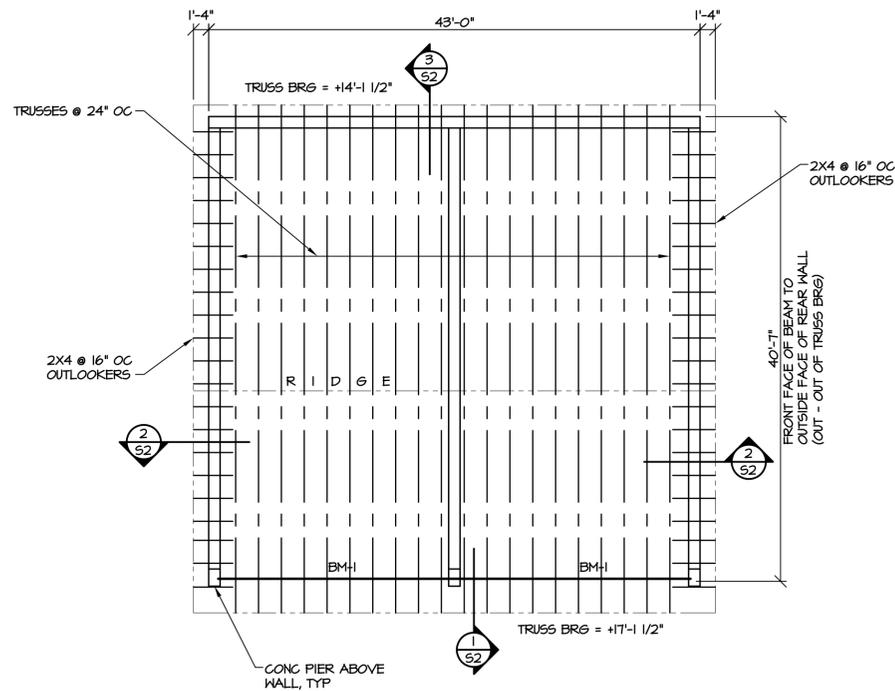
NOTES:

1. COMPRESSIVE STRENGTH OF CONCRETE FOR FOOTINGS = 4000 PSI.
2. CONCRETE FOR SLABS & WALLS SHALL HAVE 0.40 MAXIMUM W/C RATIO, & MINIMUM 5000 PSI COMPRESSIVE STRENGTH.
3. EXPOSED CONCRETE SHALL BE AIR ENTRAINED.
4. ALL REINF STEEL SHALL BE ASTM A 615, GR 60. LAP ALL SPLICES 48 X BAR DIAMETER.
5. ELEVATIONS SHOWN ARE ABOVE REFERENCE FLOOR ELEVATION = +0'-0".
6. UNLESS OTHERWISE NOTED, TOP OF FOOTING = -1'-0" BELOW FINISHED FLOOR.
7. WOOD STUD WALL SHEATHING SHALL BE 1/2" OSB OR PLYWOOD, ATTACHED W/ 8D NAILS @ 6" O.C. ON PANEL EDGES & 8" O.C. AT INTERIOR, UN. PANELS SHALL BE APA RATED SHEATHING, EXPOSURE 1. PROVIDE BLOCKING AT ALL PANEL EDGES ON EXTERIOR WALLS.
8. PT DENOTES PRESSURE TREATED IN ACCORDANCE W/ ANPA STANDARDS.
9. COORDINATE CONSTRUCTION W/ ELECTRICAL WORK PROVIDED BY OWNER.

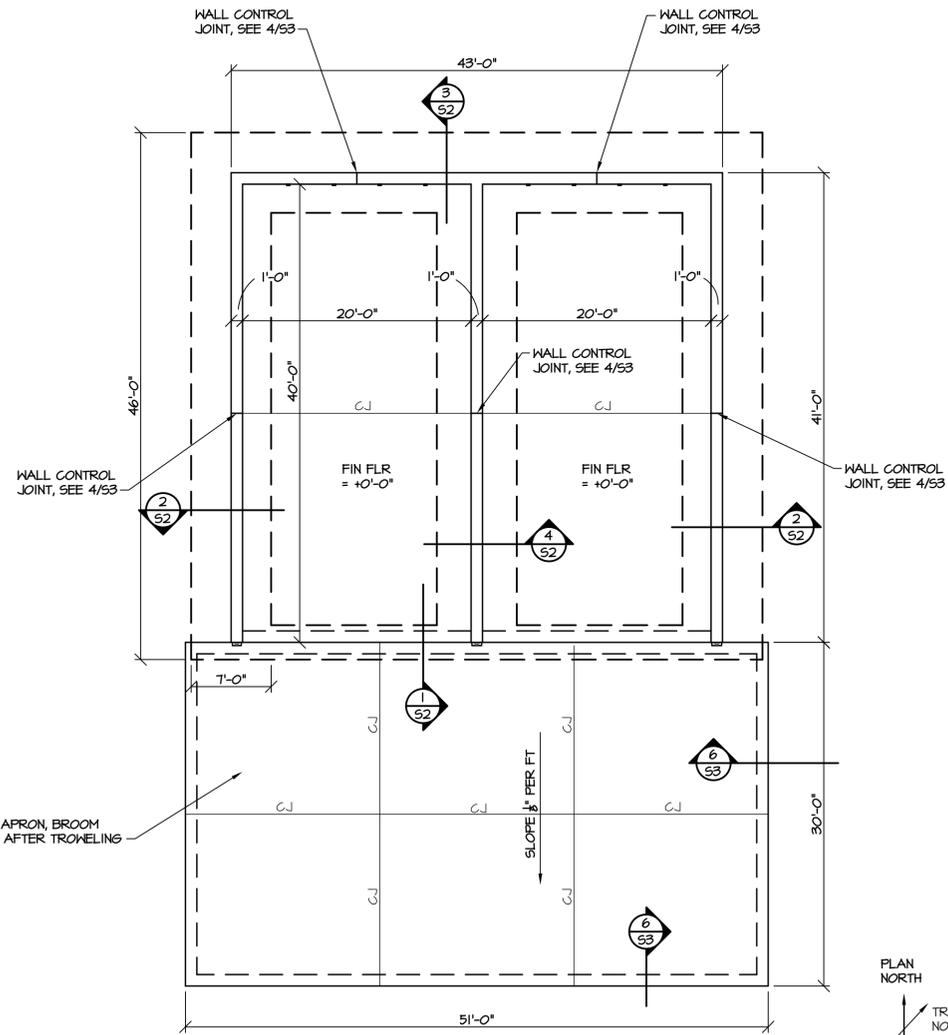
PREPARE CONCRETE WALL SURFACES AS FOLLOWS:

INTERIOR - PATCH TIE HOLES & DEFECTS, REMOVE FINIS FLUSH W/ SURFACE.
 EXTERIOR - PATCH TIE HOLES, BUG HOLES, & OTHER DEFECTS. REMOVE FINIS FLUSH WITH SURFACE. PATCH HOLES THAT CANNOT BE SEALED W/ BLOCK FILLER & PAINT.

INTERIOR FLOOR & APRON SHALL BE 6" CONC SLAB REINF W/ EPOXY COATED #4 @ 16" OC, 6" OVER 6" COMPACTED GRANULAR BASE.



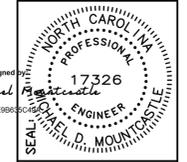
2 FRAMING PLAN
 SCALE: 1/8" = 1'-0"



SITE NOTES:

1. ROUGH GRADING HAS BEEN PROVIDED BY NCDOT. FOUNDATION EXCAVATION & FINAL GRADING IS THE CONTRACTOR'S RESPONSIBILITY.
2. CONTRACTOR IS RESPONSIBLE FOR BUILDING LAYOUT. COORDINATE BUILDING LOCATION W/ NCDOT. AFTER LAYOUT, VERIFY BUILDING LOCATION W/ NCDOT PRIOR TO CONSTRUCTION.
3. NCDOT IS RESPONSIBLE FOR REMOVING ANY STORED MATERIAL FROM BUILDING PAD PRIOR TO CONSTRUCTION.

1 FOUNDATION PLAN
 SCALE: 1/8" = 1'-0"



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 1 SOUTH WILMINGTON STREET
 919/715-0400 FAX: 919/715-0399
 RALEIGH, NORTH CAROLINA 27601



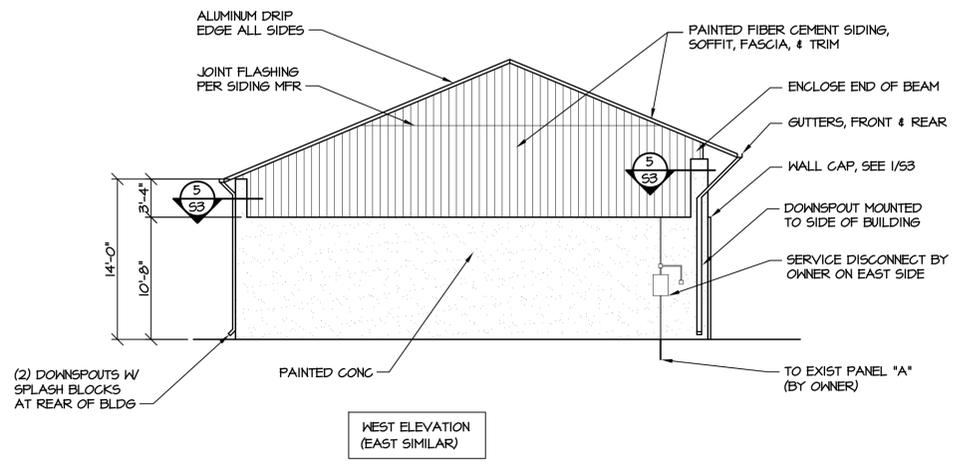
TWO-BAY SALT SHED
DIVISION 14, NCDOT
MACON COUNTY, NC

PROJECT: SCO ID#: 09-07377-01M

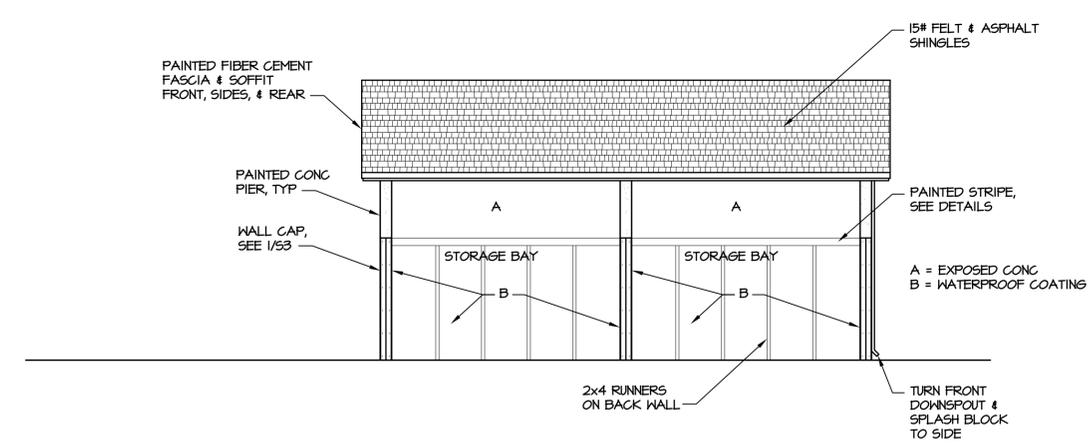
REVISIONS NO.	DATE

DATE ISSUED: 11-17-15
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 CHECKED BY: MDM
 SHEET NO.

S1
 1 OF 3

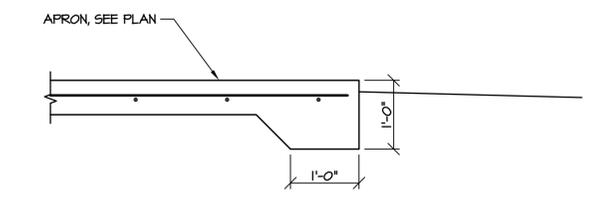


WEST ELEVATION
(EAST SIMILAR)

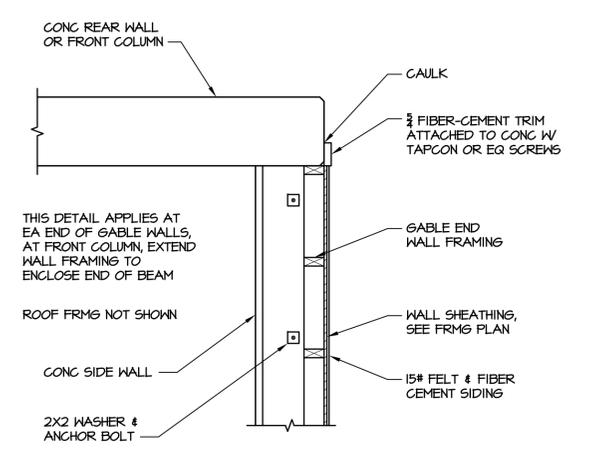


SOUTH ELEVATION
(NORTH SIMILAR)

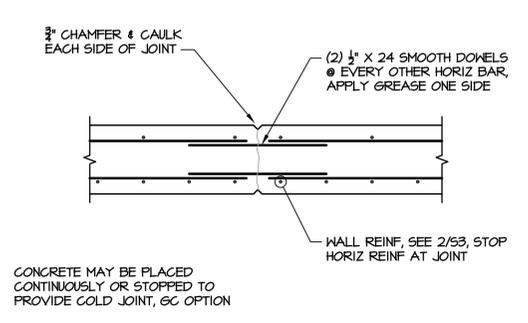
7 ELEVATIONS
SCALE: 1/8" = 1'-0"



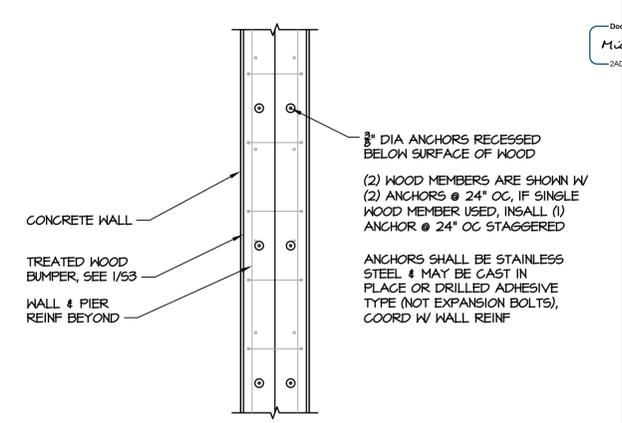
6 SLAB EDGE AT APRON
SCALE: 3/4" = 1'-0"



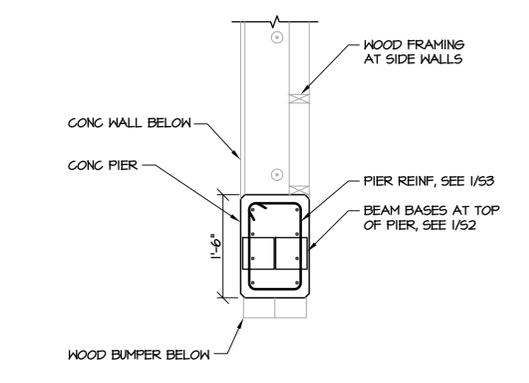
5 GABLE WALL TRIM DETAIL
SCALE: 3/4" = 1'-0"



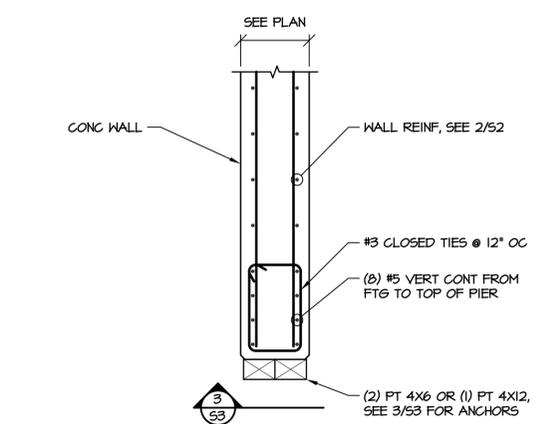
4 WALL CONTROL JOINT
SCALE: 3/4" = 1'-0"



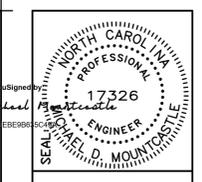
3 WOOD BUMPER ATTACHMENT
SCALE: 3/4" = 1'-0"



2 CONCRETE PIER
SCALE: 3/4" = 1'-0"



1 WALL REINFORCEMENT
SCALE: 3/4" = 1'-0"



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 919/7715-0400 FAX: 919/7715-0399

TWO-BAY SALT SHED
DIVISION 14, NCDOT
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