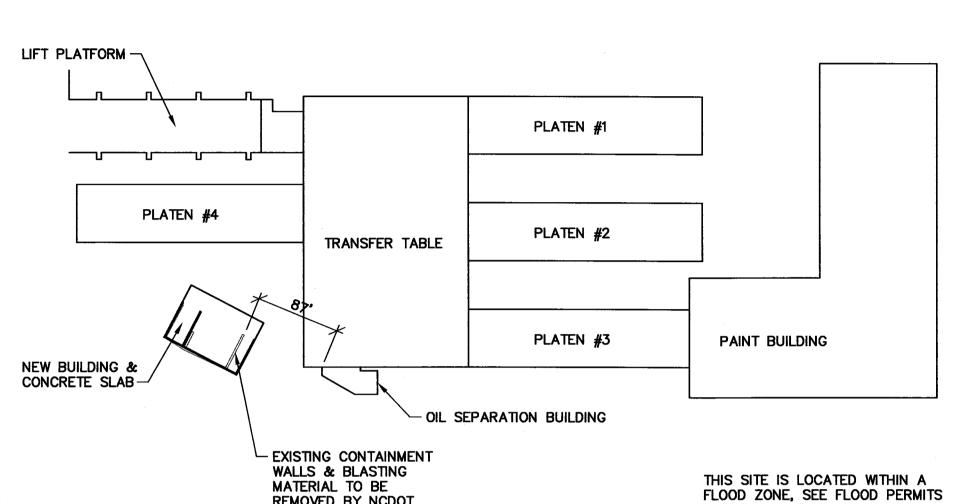
**FERRY DIVISION, NCDOT** DARE COUNTY, NC SCO ID# 14-00000-01A

**SITE LAYOUT** 





**INDEX OF DRAWINGS** 

- S1 ELEVATIONS & CODE SUMMARY S2 FOUNDATION & FRAMING PLANS
- S4 DETAILS & GENERAL NOTES

2012 APPENDIX B BUILDING CODE SUMMARY

REMOVED BY NCDOT

Owner or Auth	orized Agent: HIGHW	AY DIVISION 1		Phone # <u>252-4</u>	73-3461
Owned By: STA	TE OF NORTH CAROLINA [	□City/County		□Private	<b>⊠</b> State
Code Enforcen	nent Jurisdiction:	□ City		County	
I FAD DESIGN	PROFESSIONAL:			E-1136 - B14 - 1384 - B14 - B14	
DESIGNER	FIRM	NAME	LICENSE #		E-MAIL
DESIGNEN	1 tives		-	•	
Architectural	FACILITIES DESIGN, NCDOT				
	FACILITIES DESIGN, NCDOT				
SITE "Civil" _					
SITE "Civil" _ Electrical _					
SITE "Civil" _ Electrical _ Plumbing _					

2012 EDITION OF NC CODE FOI EXISTING: ☐Reconstruction CONSTRUCTED	R: New Construction Alteration ORIGINAL USE	Addition Repair RENOVATED	Upfit
DI III DING DATA			

BUILDING DATA

Mezzanine: ☒ No ☐ Yes

TOTAL

ALLOWABLE AREA

Factory ☐ F-1 Moderate ☐ F-2 Low □ I–3 □ I–4 **□2 □3 □4 □5** ☐ Mercantile ☐ Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4

Storage ☐ S-1 Moderate ☐ S-2 Low ☐ High-piled

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.	902	5500	NOT USED	NOT USED	5500	5500

ALLOWABLE HEIGHT

TYPE II—B	ALLOWABLE (TABLE 503)	INCREASE FOR SPRINKLERS	SHOWN ON PLANS	CODE REFERENCE
Building height in feet	Feet40	Feet=H+20'= N/A	Feet	503
Building Height in Stories	Stories	Stories+1= N/A	Stories1	503

FIRE PROTECTION REQUIREMENTS

FIRE SEPARATION DISTANCE (FEET)	RATING				DECKAN A FAD	
	REQ'D	PROVIDED W/ REDUCT	DETAIL & SHEET #	DESIGN # FOR RATED ASSEMBLY	RATED PENETRATION	Design # For Rated Joints
10	0	0	-	-	-	_
-	0	0	-	_	-	-
_	0	0	-	-	-	_
10	0	0	-	-	-	
	10 —	FIRE SEPARATION DISTANCE (FEET) REQ'D  10 0  - 0  - 0	FIRE SEPARATION DISTANCE (FEET)  10 0 0  - 0 0  - 0 0	FIRE SEPARATION DISTANCE (FEET)  10  0  0  -  -	FIRE SEPARATION DISTANCE (FEET)  REQ'D PROVIDED W/REDUCT  10 0 0	FIRE SEPARATION DISTANCE (FEET)  REQ'D PROVIDED W/ REDUCT  DETAIL & DESIGN # FOR RATED ASSEMBLY  PENETRATION  10 0 0

LIFE SAFFTY SYSTEM REQUIREMENTS

LIFE SAFEIT	SISIEM	KEQUIKEMEN
Emergency Lighting:	⊠ No	☐Yes
Exit Signs:	<b>⊠</b> No	Yes
Fire Alarm:	X No	Yes
Smoke Detection Systems:	X No	Yes
Panic Hardware:	🔀 No	☐Yes

EXIT REQUIREMENTS N/A STRUCTURAL DESIGN

Importance Factors: Wind (I w) \_\_\_\_\_1.0 Snow (I<sub>S</sub>) 1.0 Seismic (I<sub>E</sub>) \_\_\_\_\_1.0

Basic Wind Speed \_\_\_\_\_\_ mph (ASCE-7-05) Exposure Category \_\_\_\_\_B

Basic structural system (check one)

PLUMBING, ENERGY, ELECTRICAL, & MECHANICAL SUMMARIES - NOT APPLICABLE

2x4 RUNNERS - TURN FRONT WCJ, SEE PLAN-ON BACK WALL-DOWINSPOUT & SPLASH BLOCK FRONT ELEVATION (REAR SIMILAR)

LEFT SIDE ELEVATION

PAINTED FIBER CEMENT

FASCIA & SOFFIT FRONT, SIDES, & REAR -

PAINTED CONC PIER, TYP —

WALL CAP,

SEE 1/54 -

(RIGHT SIDE SIMILAR)

ALUMINUM DRIP EDGE ALL SIDES —

PAINTED CONC

SPLASH BLOCK AT

CONT WALL,

PAINTED -

REAR OF BLDG

JOINT FLASHING PER SIDING MFR

PAINTED FIBER CEMENT SIDING,

GUTTERS, FRONT & REAR

15# FELT & ASPHALT

- PAINTED STRIPE, SEE DETAILS

A = EXPOSED CONC

B = ASPHALT COATED CONC

SHINGLES

WALL CAP, SEE 1/54

SOFFIT, FASCIA, & TRIM

STORAGE BAY

WCJ, SEE PLAN

7-30-14

FERRY DIVISION CONTRACT ID#

11407920

SHED 

PROJECT: 13-10648-01A

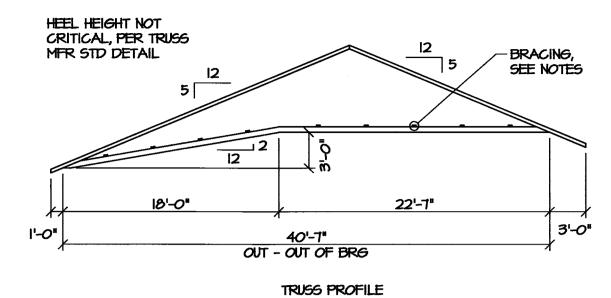
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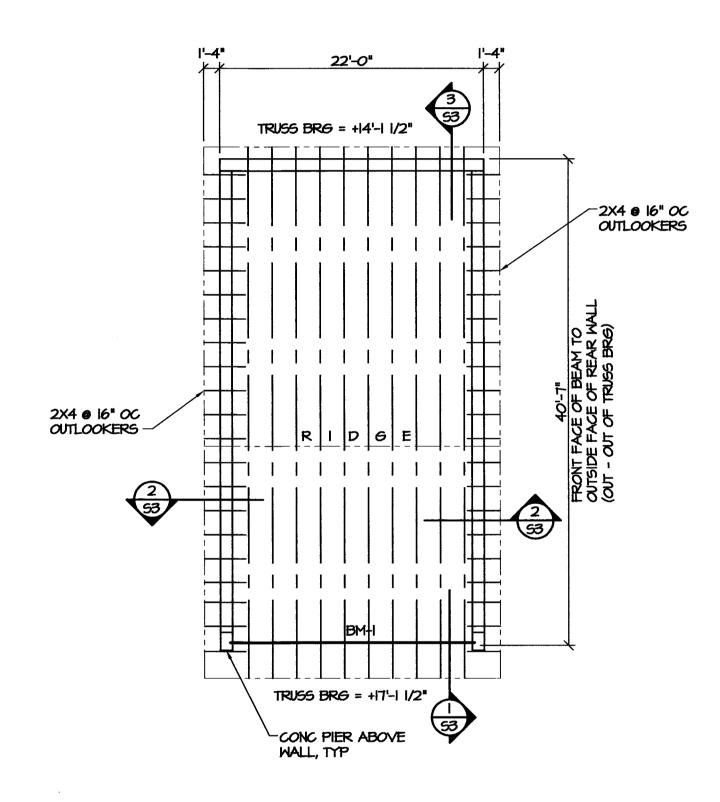
DATE ISSUED: 07-29-1 DRAWN BY: MDM

CHECKED BY: MDM SHEET NO.

> S<sub>1</sub> | OF 4

- 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 \$" OSB OR PLYWOOD, ATTACHED W IOD 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-I = PRESSURE TREATED 5-I/2" X I6" GLULAM, 24F-V4, BALANCED.





NOTES:

- I. COMPRESSIVE STRENGTH OF CONCRETE FOR FOOTINGS = 4000 PSI.
- 2. CONCRETE FOR WALLS SHALL HAVE 0.40 MAXIMUM W/C RATIO, & MINIMUM 5000 PSI COMPRESSIVE STRENGH (TABLE 4.2.2 OF ACI 318-05).
- 3. EXPOSED CONCRETE SHALL BE AIR ENTRAINED.
- 4. ALL REINF STEEL SHALL BE ASTM A 615, GR 60. LAP ALL SPLICES 48 X
- 5. ELEVATIONS SHOWN ARE ABOVE REFERENCE FLOOR ELEVATION = +0'-0" AS SHOWN ON PLAN.
- 6. UNLESS OTHERWISE NOTED, TOP OF FOOTING = -I'-O" BELOW TOP OF SLAB.
- 7. WOOD STUD WALL SHEATHING SHALL BE ½" OSB OR PLYWOOD, ATTACHED W 8D NAILS @ 6" O.C. ON PANEL EDGES & 8" O.C. AT INTERIOR, UON. PANELS SHALL BE APA RATED SHEATHING, EXPOSURE I. PROVIDE BLOCKING AT ALL PANEL EDGES ON EXTERIOR WALLS.
- 8. PT DENOTES PRESSURE TREATED IN ACCORDANCE W/ AWPA STANDARDS.

PROVIDE SMOOTH FINISH ON ALL EXPOSED CONCRETE SURFACES. AFTER FORM REMOVAL, PATCH TIE HOLES, BUG HOLES, & OTHER DEFECTS. REMOVE FINS FLUSH WITH SURFACE. TEXTURE IMPARTED BY FORMS MAY REMAIN PROVIDED THE CONCRETE IS SOUND & FREE OF YOLDS.

- WCJ DENOTES WALL CONTROL JOINT, SEE 4/54 *8*5'-0" 22'-0" +0'-5" 53 NEW 6" CONCRETE SLAB REINF'D W #4 @ 16" OC EW ON 6" COMPACTED GRANULAR BASE -(2) (53) +0'-0" -0'-2<mark>|</mark>"

SITE NOTES:

- I. NO PLUMBING OR ELECTRICAL WORK IS INCLUDED IN THIS CONTRACT. ANY UNFORESEEN UTILITY WORK MUST BE COORDINATED WY NCDOT.
- 2. NCDOT IS RESPONSIBLE FOR REMOVING ANY STORED MATERIAL FROM BUILDING LOCATION PRIOR TO CONSTRUCTION.
- 3. CONTRACTOR IS RESPONSIBLE FOR BUILDING LAYOUT. COORDINATE BUILDING LOCATION W NCDOT. VERIFY BUILDING LOCATION W NCDOT PRIOR TO CONSTRUCTION.
- 4. REFERENCE SLAB ELEVATION OF O'-O" SHOWN ON FDN PLAN WILL BE APPROXIMATELY +6'-O" TRUE ELEVATION. CONTRACTOR TO FIELD VERIFY W OWNER & EXISTING GRADE PRIOR TO CONSTRUCTION.





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7-30-14

FERRY DIVISION CONTRACT ID# 11407920

SHED (7

SCO ID#: 13-10648-01A

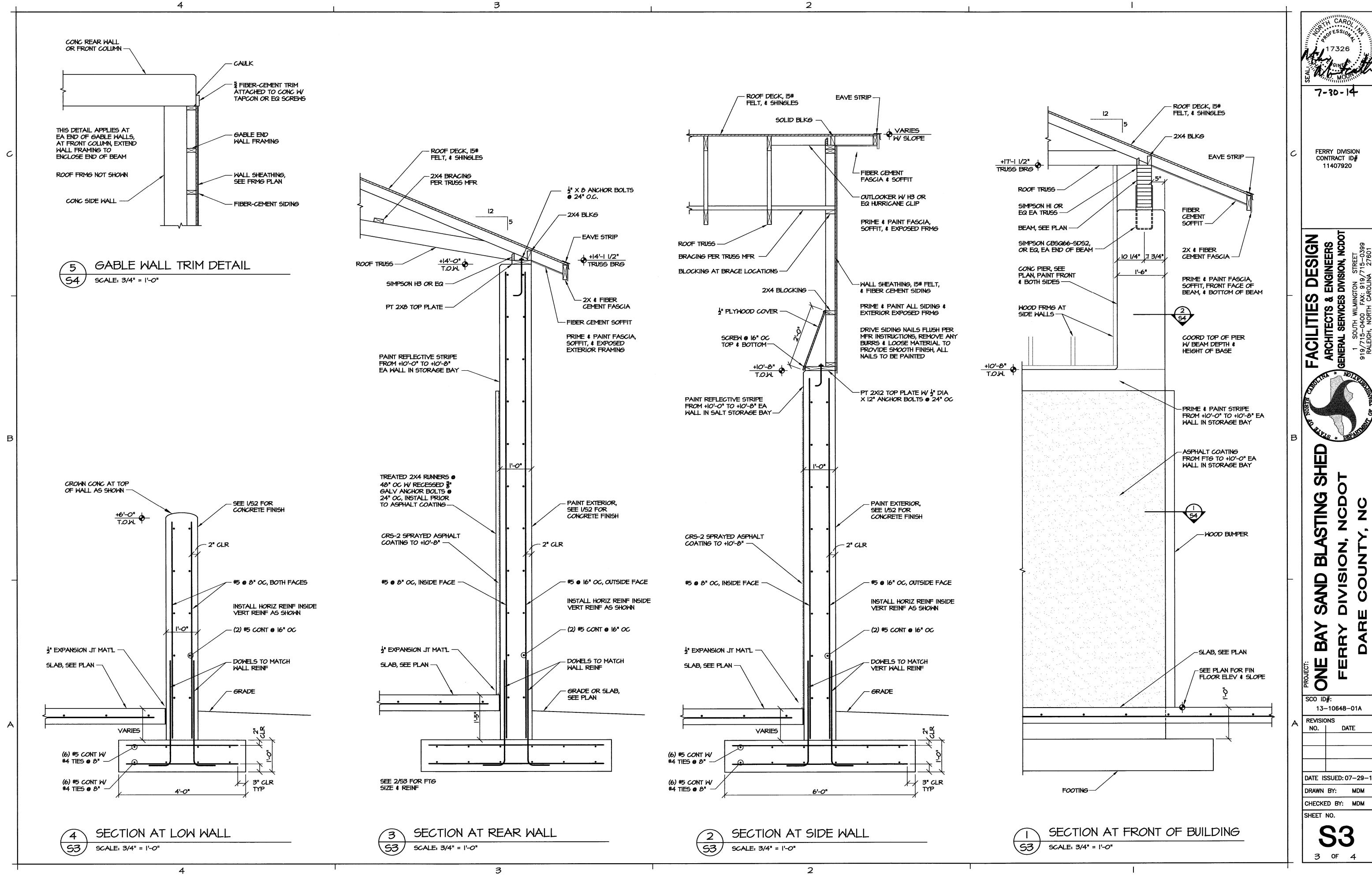
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# GENERAL NOTES:

### A. GENERAL

- 1. See specifications for further information. in case of conflict between specifications & drawings, contact architect for resolution.
- 2. Contractor is responsible for coordination & distribution of all changes in contract documents to all subcontractors.
- 3. Contractor shall verify all field conditions, elevations, & dimensions prior to construction. Do not scale from plans.
- 4. Means & methods of construction, including temporary bracing, shoring, & jobsite safety, are the responsibility of the contractor.
- 5. Structural frame shall be braced until erection is complete & permanent connections & bracing are installed.
- 6. Provide silt fence or other erosion & sediment control measures as required.
- 7. If demolition is included in project, sawcut all edges of existing slab and asphalt to remain adjacent to new construction.

## B. FOUNDATION

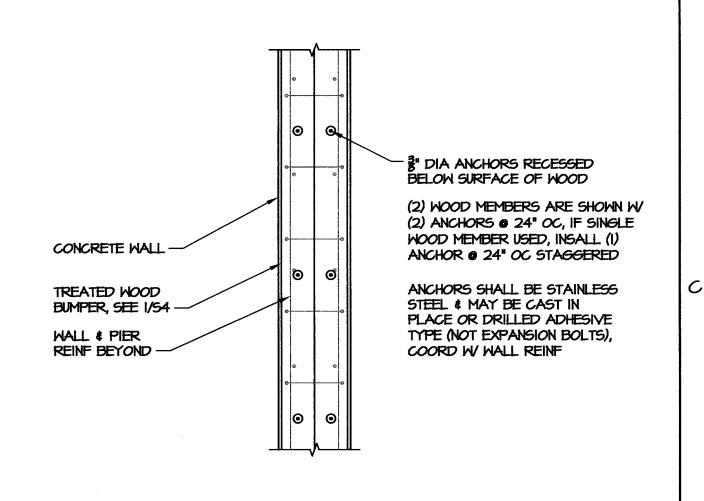
- 1. Footing excavations shall be reviewed by a geotechnical engineer or construction testing agency approved by the architect or engineer.
- 2. Footing depths shown are based on geotechnical investigation or presumptive soil properties. Soft or unsuitable soils shall be removed & replaced with suitable fill
- 3. 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.
- 4. Contractor is responsible for shoring while excavating near existing structures.

### C. CONCRETE

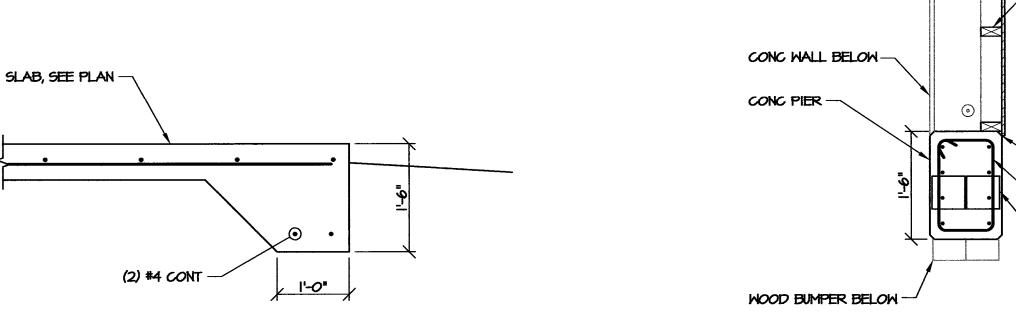
- 1. See plans for required compressive strength of concrete. All exposed concrete shall be air entrained per Table 4.2.1 of ACI 318-05.
- 2. Coordinate floor slopes and depressions with arch and plumbing plans. Maintain specified slab thickness below depressed or sloped areas.
- 3. If not specified on plans, provide sawed slab control joints in slabs on grade spaced at not more than 48 times the slab thickness.
- 4. Reinforcing steel shall meet ASTM A 615, Grade 60.
- 5. Welded wire reinforcement shall conform to ASTM A 185 & A 82.
- 6. Grout under all columns & beam bearing plates with non-shrink, non-metallic grout which meets ASTM C 1107.
- 7. Clear distance from face of concrete to main reinforcing:
  - Suspended slabs and joists:
  - Grade beams, pedestals, columns, walls:
  - Footings & walls cast against earth:
- 8. Provide (2) #4 x 48" diagonal corner bars at center of slab at all corners of floor slab openings.
- 9. Lap all reinforcement splices 48 bar diameters, UON.
- 10. Detailing, fabrication, & installation of reinforcing steel shall conform to ACI "Manual of Standard Practice for Detailing Reinforced Concrete Structures" (ACI
- 11. Workmanship, tolerances, & concrete placement shall conform to "Standard Specifications for Structural Concrete (ACI 301).
- 12. Chamfer exposed edges of concrete 3/4", UON.
- 13. Anchor bolts shall conform to ASTM F 1554, Grade 36, & galvanized.
- 14. See architectural plans for floor finishes. Coordinate slab curing & sealing compounds with flooring materials.

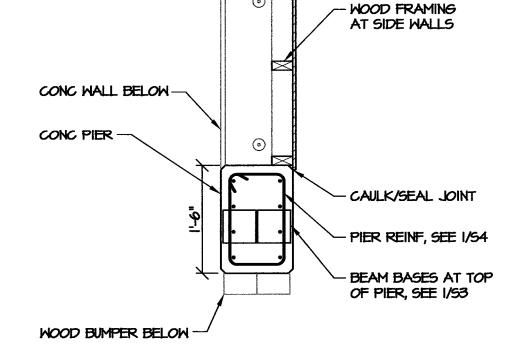
## F. WOOD

- 1. 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.
- 2. Wood in contact with concrete or masonry shall be treated.
- 3. Straps, ties, hangers, & other connection hardware shall be galvanized.
- 4. 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.
- 5. 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.
- 6. 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.
- 7. Additional bracing may be required by engineer of record as indicated on plans for support of gable walls or other items.
- 8. Install blocking in walls & ceiling where required for partitions, fixtures, & other misc items. Coordinate with all trades.



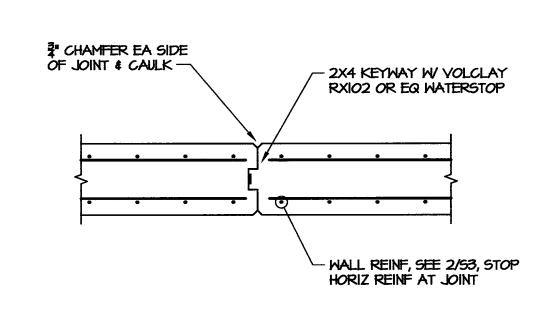


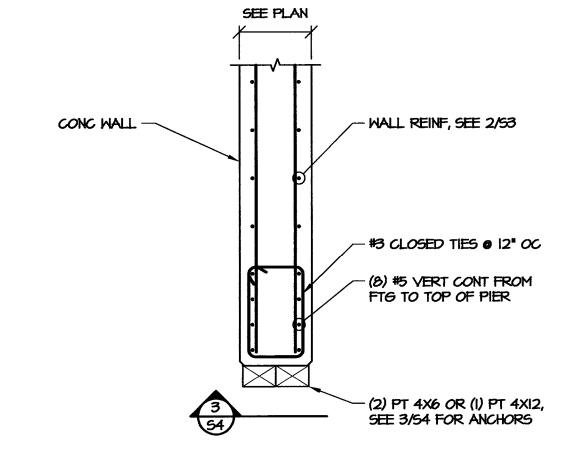




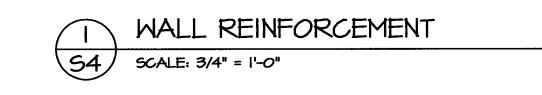


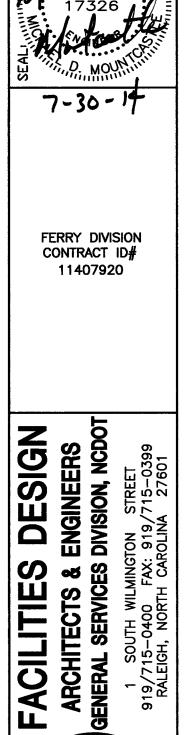












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4 OF 4