

EXISTING ATTIC TRUSS LAYOUT, TYP - DEMOLITION  
 SCALE: 1/4" = 1'-0"

(3) EXISTING TRUSSES ARE TO BE MODIFIED IN THE EXISTING ROOF LINE. LOCATIONS TO BE IDENTIFIED BY CLIENT.

TOP CHORD SHALL REMAIN IN PLACE. SEE NAILING PATTERN ON SHEET S5.8.

EXISTING TRUSS 2' OC.  
 TC TIE DOWN TO REMAIN

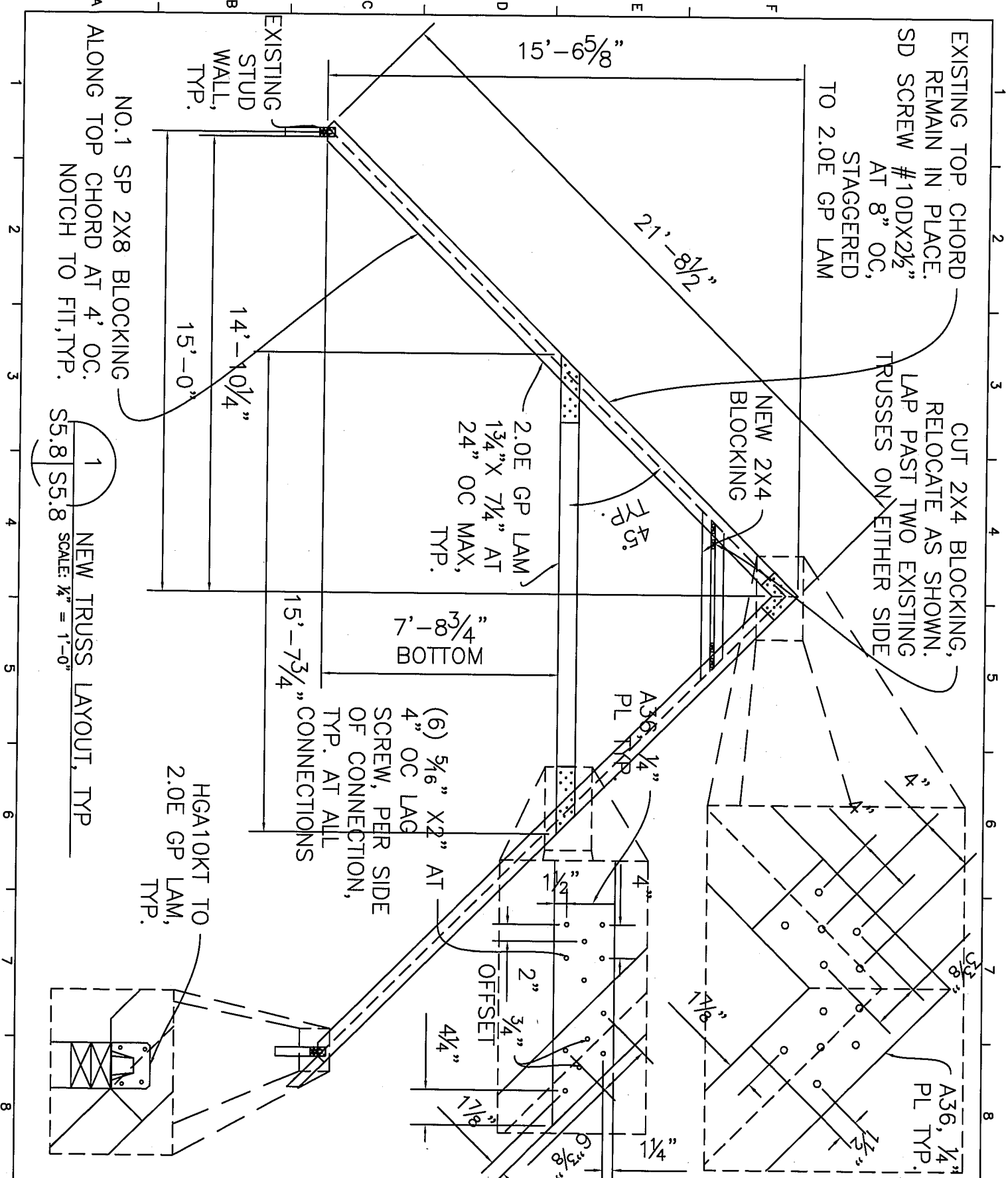
BLOCKING SHALL BE REINSTALLED AFTER NEW TRUSS INSTALLATION IS COMPLETE.  
 REMOVE AFTER NEW TRUSS INSTALLATION IS FULLY COMPLETE PER SHEET S5.8, TYP.

HWY 87 AND BUFFALO RD  
 EXISTING ATTIC TRUSS LAYOUT

DETAILS

Professional Engineer Seal for Daniel Mathew, License No. 40787, State of North Carolina.

NO. 1	EXISTING ATTIC TRUSS LAYOUT, TYP - DEMOLITION
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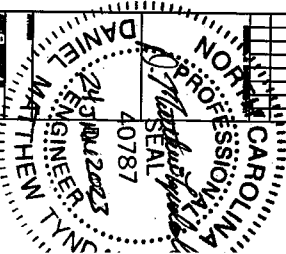
HWY 87 AND BUFFALO RD  
 MODIFY EXISTING TRUSSES  
 DETAILS

PROFESSIONAL SEAL  
 DANIEL M. MATTHEW  
 40787  
 243002025  
 ENGINEER  
 STATE OF NORTH CAROLINA

3518

GENERAL NOTES:

1. ALL UTILITIES, EXISTING FEATURES AND DIMENSIONS ARE TO BE FIELD VERIFIED PRIOR TO BIDS AND CONSTRUCTION.
2. THE CONTRACTOR IS HEREBY CAUTIONED THAT ALL SITE FEATURES SHOWN HEREON ARE BASED ON FIELD OBSERVATIONS BY INFORMATION PROVIDED BY OTHERS. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH OSHA STANDARDS.
4. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE AS SOON AS PRACTICABLE.
5. CONTRACTOR SHALL PREVENT DUST, SEDIMENT AND DEBRIS FROM EXITING THE SITE AND SHALL BE RESPONSIBLE FOR CLEANUP, REPAIRS AND CORRECTIVE ACTION IF SUCH OCCURS. CONTRACTOR SHALL DISPOSE OF DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS, ORDINANCE AND STATUTES.
6. BURNING WILL NOT BE ALLOWED ON THE PROJECT SITE UNLESS AUTHORIZED IN WRITING BY CLIENT.
7. CONTRACTOR IS RESPONSIBLE FOR PLACING BARRICADES USING FLAG MEN, FENCE, ETC AS NECESSARY TO INSURE SAFETY TO PUBLIC.
8. DETAILS ENTITLED OR NOTED AS "TYPICAL" SHALL APPLY NOT ONLY WHERE SPECIALLY INDICATED OR REFERENCED, BUT ALSO IN ALL OTHER CASES WHERE THE NATURE OF THE CONSTRUCTION REQUIRES THEIR USE. APPLICATION OF TYPICAL DETAILS SHALL BE DETERMINED FROM DESCRIPTIVE TITLES OR FROM THE SIMILARITY OF A CONSTRUCTION CONDITION TO ANOTHER CONDITION WHERE THE DETAIL IS SPECIFICALLY INDICATED OR REFERENCED.



HWY 87 AND BUFFALO RD  
RIDGED FRAME CANOPY

NOTES

DATE	NOV 11 2003
BY	DM
CHECKED	DM
SCALE	AS SHOWN
PROJECT	HWY 87 AND BUFFALO RD
SHEET NO.	56 OF 60
TOTAL SHEETS	60

GENERAL NOTES CONTINUED:

9. DISCREPANCIES IN DIMENSIONS BETWEEN DEFERENT DRAWINGS SHALL BE REPORTED TO THE CLIENT AND DESIGNER FOR CLARIFICATION PRIOR TO BEGINNING CONSTRUCTION IN THE AREAS THAT ARE INVOLVED WITH THE DISCREPANT DIMENSIONS.

STRUCTURAL FOUNDATION NOTES:

1. ALL STRUCTURES SHALL BE FOUNDED ON SELECT FILL OR UNDISTURBED SOIL HAVING A MINIMUM BEARING CAPACITY OF 2000 PSF. WHERE BEAR CAPACITY IS NOT MET, PROVIDE STRUCTURE FILL PER THE BELOW REQUIREMENTS.

2. PRIOR TO CONSTRUCTION, ALL VEGETATION, TOPSOIL, AND OTHER DELETERIOUS MATERIAL SHALL BE REMOVED FROM THE LIMITS OF WORK. EXCAVATE TOP 6" OF TOP SOIL WITHIN GRADING LIMITS AND STOCK PILE. EXCAVATE TO THE LIMITS SHOWN. BACK FILL WITH SELECT FILL IN 6" LIFTS TO NEW GRADES. COMPACT EACH LIFT TO 95% STANDARD PROCTOR. REUSE TOPSOIL FROM STOCK PILE AND SPREAD 6" TOPSOIL. PROVIDE FERTILIZER AND SEED WITHIN GRADING LIMITS.

STRUCTURAL FOUNDATION NOTES CONTINUED:

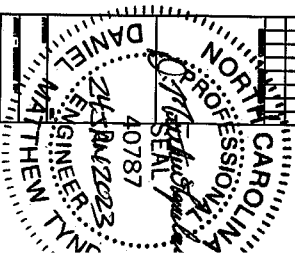
3. SELECT FILL MATERIAL SHALL MEET ASTM D 2487, CLASSIFICATION GW, GP, SW OR SP WITH NOT MORE THAN 3% PASSING ASTM D 1140, NO. 200 SIEVE AND MAXIMUM PARTICLE SIZE SHALL NOT EXCEED 3".

4. EXCAVATE MATERIAL AS REQUIRED TO MEET PROPER ELEVATIONS. SUBGRADE MATERIAL SHALL BE COMPACTED TO 95% STANDARD PROCTOR IN ACCORDANCE WITH ASTM D 698.

5. ASTM #57 STONE BASE SHALL BE 6" THICK BELOW THE BOTTOM OF SPECIFIED FOOTING DEPTH. COMPACT TO 99% RELATIVE COMPACTION (RC) PRIOR TO PLACEMENT OF CONCRETE.

5. ANY UNUSUAL SOIL CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE CLIENT AND DESIGNER.

6. VIBRATORY EQUIPMENT SHALL NOT BE ALLOWED FOR EXCAVATION NEAR OR ADJACENT TO EXISTING FOUNDATIONS.



HWY 87 AND BUFFALO RD  
RIDGED FRAME CANOPY

NOTES

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PROJECT	HWY 87 AND BUFFALO RD
SHEET	56.1

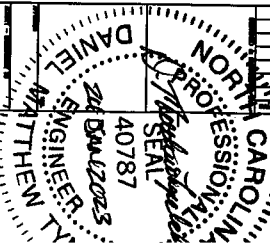
STRUCTURAL CONCRETE NOTES:

1. ALL CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF THE AMERICAN CONCRETE INSTITUTE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318, LATEST EDITION).
2. CONCRETE SHALL BE NORMAL WEIGHT AND SHALL OBTAIN A 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI. CONCRETE EXPOSED TO WEATHER SHALL HAVE 5% AIR ENTRAINMENT  $\pm$  1.5%. 7 DAY AND 28 DAY BREAK TESTS ARE REQUIRED TO BE SUBMITTED FOR APPROVAL.
3. ALL REINFORCING STEEL AND EMBEDDED ITEMS SUCH AS ANCHOR BOLTS AND WELDED PLATES SHALL BE ACCURATELY PLACED IN POSITIONS SHOWN. AND SHALL BE ADEQUATELY TIED AND SUPPORTED BEFORE CONCRETE IS PLACED TO PREVENT DISPLACEMENT BEYOND PERMITTED TOLERANCES DURING CONCRETE PLACEMENT.
4. NO CONCRETE SHALL BE PLACED UNTIL ALL EMBEDDED WORK HAS BEEN INSPECTED BY THE CONTRACTING OFFICER.

5. REINFORCING MATERIALS SHALL BE AS FOLLOWS:

- A) REINFORCING BARS - ASTM A 615, GRADE 60, DEFORMED.
- B) WELDED WIRE FABRIC - ASTM A 185, WELDED STEEL WIRE FABRIC. PROVIDE IN FLAT SHEETS, ROLL TYPE NOT ACCEPTABLE. SHEETS SHALL BE LAPPED 9" AT SPLICES.

6. MINIMUM CONCRETE COVER FOR REINFORCING STEEL SHALL BE AS DETAILED ON THE DRAWINGS. WHERE COVER IS NOT DIMENSIONED USE THE SAME AS DIMENSIONED FOR SIMILAR ITEMS. WHERE THERE ARE NO SIMILAR ITEMS ACI 318 SHALL GOVERN.
7. ALL CONTINUOUS REINFORCING SHALL BE LAPPED 48x BAR DIAMETER AT SPLICES UNLESS OTHERWISE NOTED.
8. COMPACT THE FINISHED BOTTOM SURFACE OF FOOTINGS PRIOR TO PLACING REINFORCEMENT.



HWY 87 AND BUFFALO RD  
RIDGED FRAME CANOPY

NOTES

NO.	DATE	REVISION
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STRUCTURAL CONCRETE NOTES CONTINUED:

STRUCTURAL STEEL NOTES:

9. WET (NOT FLOOD) THE FORMS, REINFORCEMENT AND BOTTOM OF ALL FOOTING EXCAVATIONS IMMEDIATELY BEFORE PLACING CONCRETE IN THE FORMS.

1. LOAD COMBINATIONS PER ASCE 7-22:

10. SLAB ON GRADE SHALL HAVE A BROOM OR BURLAP DRAG FINISH.

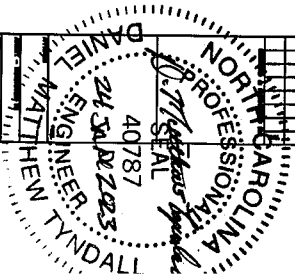
A. LRFD (CONCRETE AND STEEL MATR AND CONNECTION):

11. WHERE CONTROL JOINTS (CJ) ARE NEEDED OR SHOWN, CJ SHALL BE SAWN AS SOON AS CONCRETE HAS SET ENOUGH TO SUPPORT CONSTRUCTION EQUIPMENT. MAXIMUM OF 24 HOURS AFTER PLACEMENT.

- (1) 1.4D
- (2) 1.2D + 1.6L + 0.5 (Lr or 0.3S or 0.5R)
- (3) 1.2D + 1.6 (Lr or 1.0S or 1.6R) + (L or 0.5W)
- (4) 1.2D + 1.0 (W or WT) + L + (0.5Lr or 0.3S or 0.5R)
- (5) 0.9D + 1.0 (W or WT)
- (6) 1.2D + Ev + E<sub>n</sub> + L + 0.15S
- (7) 0.9D - Ev + E<sub>n</sub>

B. ASD (WOOD MEMBERS AND CONNECTION):

- (1) D
- (2) D + L
- (3) D + (Lr or 0.7S or R)
- (4) D + 0.75L + 0.75 (Lr or 0.7S or R)
- (5) D + 0.6 (W or WT)
- (6) D + 0.75L + 0.75 (0.6 (W or WT)) + 0.75 (Lr or 0.7S or R)
- (7) 0.6D + 0.6 (W or WT)



HWY 87 AND BUFFALO RD  
RIDGED FRAME CANOPY

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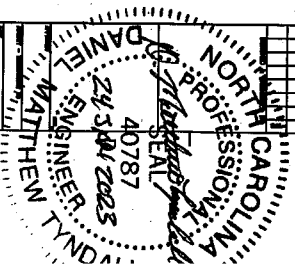
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STRUCTURAL STEEL NOTES CONTINUED:

6. CONNECTIONS - GENERAL:

- 1) ALL CONNECTIONS NOT DETAILED OR OTHERWISE NOTED SHALL BE DESIGNED AS AISC TYPE II BOLTED CONNECTIONS DESIGNED FOR THE FULL LOAD CAPACITY OF THE CONNECTING MEMBERS.
- 2) THE DESIGN AND DETAILING OF ALL CONNECTIONS SHALL CONFORM TO THE AISC SPECIFICATION CONTAINED IN THE LATEST AISC EDITION.
- 3) ALL WELDING SHALL BE PERFORMED AS PER THE AMERICAN WELDING SOCIETY'S RECOMMENDATIONS BY CERTIFIED WELDERS.
- 4) E70XX (70 KSI) ELECTRODES SHALL BE USED FOR ALL WELDS.
- 5) MINIMUM WELD SIZE FOR STRUCTURAL STEEL CONNECTIONS SHALL CONFORM TO AISC SPECIFICATIONS.
- 6) UNLESS OTHERWISE NOTED. ALL NEW BOLTS SHALL BE HIGH STRENGTH BOLTS, ASTM A325 UNLESS DIRECTED BY MANUFACTURE OR NOTED OTHERWISE. THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE.
- 7) ALL FASTENERS IN CONTACT NEAR GRADE SHALL BE HOT-DIPPED GALVANIZED PER ASTM F2329. PROTECT ALL BOLTED CONNECTIONS FROM GALVANIC CORROSION WERE DISSIMILAR METALS ARE PRESENT. ALL FASTENERS/ANCHORS SHALL USE NEOPRENE OR OTHER WASHERS IF THERE IS A POTENTIAL FOR GALVANIC CORROSION. IN LIEU OF HOT-DIPPED GALVANIZATION, FASTENERS MAY BE COVERED BY CONCRETE PER ACI 318.
- 8) AS MUCH AS POSSIBLE, CONNECTIONS SHALL BE DESIGNED AS SHOP WELDED AND FIELD BOLTED.



HWY 87 AND BUFFALO RD  
RIDGED FRAME CANOPY

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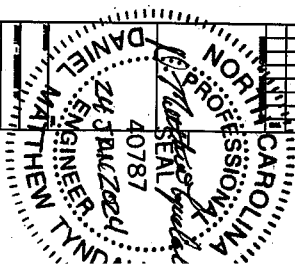
STRUCTURAL STEEL NOTES CONTINUED:

7. STRUCTURAL STEEL MATERIAL SPECIFICATION:

- 1) PLATES: ASTM A572 GR 50, UNLESS OTHERWISE NOTED
- 2) ANGLES: ASTM A36.
- 3) HOLLOW STRUCTURAL STEEL (HSS) SECTIONS: ASTM A500C GR 50.
- 4) WIDE FLANGES: ASTM A992
- 5) STEEL TO STEEL BOLTS: ASTM A325
- 6) ANCHOR RODS CONCRETE: ASTM F1554 GR36
- 7) STEEL TO ANGLE: SEE KEY NOTES ON SHEETS.

8. WHERE HOT-DIPPED FASTENERS ARE USED, ZINC RICH PAINT SHALL BE USED ONLY ON AREAS OF STEEL WHERE THE HOT-DIPPED GALVANIZATION HAS BEEN DISTURBED DUE TO CONSTRUCTION.

9. ALL SHOP DRAWINGS, PAINT AND A MATERIAL PURCHASE SHEET SHALL BE SUBMITTED FOR APPROVAL BY CLIENT.



HWY 87 AND BUFFALO RD  
RIDGED FRAME CANOPY

NOTES

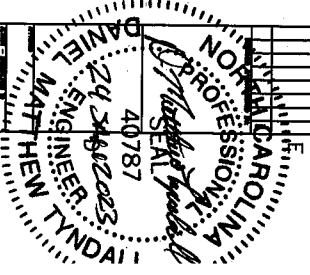
DATE	11.18.14
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PROJECT	HWY 87 AND BUFFALO RD
SHEET NO.	56.6
TOTAL SHEETS	57
DATE	11.18.14
BY	DM
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SCALE	AS SHOWN
PROJECT	HWY 87 AND BUFFALO RD
SHEET NO.	56.6
TOTAL SHEETS	57

**STRUCTURAL WOOD NOTES:**

1. ALL WOOD CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE AMERICAN WOOD COUNCIL (AWC) NATIONAL DESIGN SPECIFICATION (NDS) 2018.
2. ALL CONNECTORS AND HANGERS ARE SHALL BE SIMPSON STRONG-TIE. SEE THE BELOW RATINGS. REFER TO SIMPSON STRONG TIE LOAD GRAPHICS FOR DIRECTIONAL STRENGTH REQUIREMENTS LISTED AS F1, F2, AND F3 (AS APPLICABLE).
3. ALL FASTENERS USED WITH SIMPSON STRONG-TIE CONNECTORS SHALL BE SD UNLESS OTHERWISE NOTED.
4. ALL WOOD SILL PLATES PLACED ON STEEL SHALL BE FASTEN DIRECTLY USING SIMPSON STRONG-TIE STRONG-DRIVE TF WOOD-TO-STEEL (MODEL #: TFP1475) PLACED (2) ROWS AT 6" OC OFFSETTING ROWS BY 3"±. FASTENERS ARE TO BE PLACED ALONG THE ENTIRE LENGTH OF THE SILL PLATE. \*\*SPECIAL ATTENTION: FASTENERS SHALL BE KEPT DRY AS DESIGN STRENGTHS MAY SUFFER IN WET OR CORROSIVE ENVIRONMENTS.
5. ALL CONNECTORS SHALL BE INSTALLED PER THE MANUFACTURE INSTRUCTIONS.
6. STANDARD FRAMING PRACTICE SHALL APPLY UNLESS OTHERWISE NOTED OR WERE SPECIFIC FASTENERS ARE NOT SHOWN OR LISTED.

MODEL NO.	NO. OF PLIES	FASTENERS		GIRDER	ALLOWABLE LOADS (LB) DF/SP (160)	UPLIFT	F1	F2
		STUD/PLATE						
LGT2	2	(14) #9X1½"SD	(16) #9X1½"SD		2,465	700		170

MODEL NO.	FASTENERS		SUPPORTING ROOF PITCH	ALLOWABLE LOADS (LB)	
	SUPPORT FRAMING	VALLEY TRUSS		UPLIFT DF/SP	DOWNLOAD DF/SP
VTCR	(4) SD#9X2½"	(3) SD#9X1½"	4/12	495	750



HWY 87 AND BUFFALO RD  
RIDGED FRAME CANOPY

NOTES

DATE	3/24/2023
SCALE	3/6" = 1'-0"
PROJECT NO.	567
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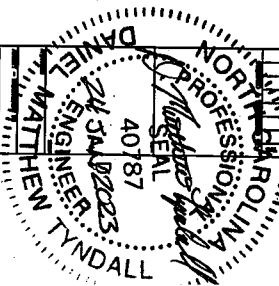
STRUCTURAL WOOD NOTES CONTINUED:

MODEL NO.	FASTENERS	L (IN.)	LOAD DIRECTION	ALLOWABLE LOADS DF/SP (160)
L90	10-SD9112	9	F1, F2	1,370 LB

MODEL NO.	FASTENERS TO TRUSS/RAFTER	FASTENERS TO STUD	ALLOWABLE LOADS (LB)	
			DF/SP (160)	UPLIFT
H10S	(8) 0.131"X1½"	(8) 0.131"X2½"	910	660
				215

MODEL NO.	FASTENERS TO TRUSS/RAFTER	FASTENERS TO PLATES	ALLOWABLE LOADS (LB)	
			DF/SP (160)	UPLIFT
H1	(6) .131"X1½"	(4) 0.131"X2½"	480	510
				190

MODEL NO.	ANCHORAGE TYPE	MINIMUM BASE MATERIAL	NO OF ANCHORS	F2 AND F3	F4
FCB4.3.5	SIMPSON STRONG-TIE 0.157"X5/8" POWER-ACTUATED FASTENERS PDPAT-62KP	A572 OR A992 STEEL 3/6" THICK	4	1,170 LB	840 LB



HWY 87 AND BUFFALO RD  
RIDGED FRAME CANOPY

NOTES

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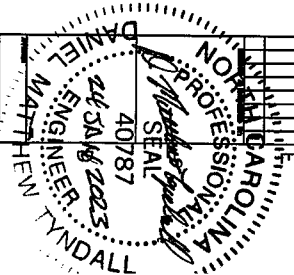
STRUCTURAL WOOD NOTES CONTINUED:

MODEL NO.	FASTENERS TO TRUSS/RAFTER	FASTENERS TO PLATES	ALLOWABLE LOADS (LB)			
			DF/SP (160)	F1	F2	F3
HGA10KT	(4) 1/4" X 1 1/2" SDS	(4) 1/4" X 3" SDS	650	1165	940	815

MODEL NO.	GA	FASTENERS (IN)		MIN. WOOD MEMBER SIZE (IN)	ALLOWABLE TENSION LOADS (LB) DF/SP (160)
		ANCHOR BOLT	WOOD FASTENERS		
HDU4-SDS2.5HD	14	5/8"	(10) 1/4" X 2 1/2" SDS	3 X 3 1/2	4565

MODEL NO.	FASTENERS (TOTAL)	ALLOWABLE LOADS (LB) DF/SP (160) UPLIFT
MSTA36	(14) 0.148" x 2 1/2"	1345

MODEL NO.	FASTENERS TO BLOCK/CONCRETE (TOTAL)	FASTENERS (TOTAL)	ALLOWABLE LOADS (LB) DF/SP (160) UPLIFT
HETA40	EMBEDDED	(10) 0.148" x 1 1/2"	1810



HWY 87 AND BUFFALO RD  
 MODIFY EXISTING TRUSSES  
 NOTES

DATE	24 JAN 2023
BY	DANIEL MATT TYNDALL
PROJECT	HWY 87 AND BUFFALO RD
NO.	569