

GENERAL CONCRETE NOTES:

ALL REINFORCING BARS TO CONFORM TO ASTM-A615, GRADE 60. ALL ACCESSORIES ARE TO BE INCLUDED. BARS ARE TO BE COLD BENT IN SHOP. BAR SUPPORTS ARE TO BE SPACED INACCORDANCE WITH ACI 318 AND CRSI. ALL BAR SPLICES ARE TO BE CONSIDERED CLASS "B". CLASS "B" SPLICES ARE TO BE LAPPED A DISTANCE OF 1.3 Ld. COMPRESSION REINFORCING SHALL BE LAPPED A MIN. OF 40 BAR DIAMETERS. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 GRADE 60 OR 70. PLACEMENT IN CONCRETE SHALL BE IN THE CENTER OF THE SLAB

CONCRETE FOR FOOTINGS AND SLABS ON GRADE SHALL ATTAIN A 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI.

CONCRETE PLACEMENT AND QUALITY: PER RECOMMENDATIONS IN ACI SP-15. DEBRIS: REMOVE ALL DEBRIS FROM FORMS BEFORE PLACING CONCRETE.

SEGREGATION OF AGGREGATES: DO NOT DROP CONCRETE THROUGH REINFORCING

STEEL SO AS TO CAUSE SEGREGATION OF AGGREGATES.

INSERTS: SECURELY POSITION ALL ITEMS TO BE CAST IN CONCRETE SUCH AS REINFORCING DOWELS, BOLTS, ANCHORS, PIPES AND SLEEVES IN THE FORMS BEFORE PLACING CONCRETE.

CONSTRUCTION JOINTS: OBTAIN THE ARCHITECTS APPROVAL OF JOINT LOCATIONS IN ALL SLABS, BEAMS, AND SHEAR WALLS. REMOVE LAITANCE AND CLEAN SURFACE OF CONCRETE CONSTRUCTION JOINTS.

PIPES: DO NOT EMBED PIPES OTHER THAN ELECTRICAL CONDUITS IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED BY THE ARCHITECT. MAXIMUM PIPE SIZE SHALL BE 1/3 OF THE SLAB THICKNESS AND LOCATED AT THE MID DEPTH. MINIMUM SPACING SHALL BE 3 TIMES THE PIPE DIAMETER. PIPES SHALL NOT IMPAIR THE STRENGTH OF THE MEMBER. ANY PIPES OF ALUMINUM ARE PROHIBITED IN STRUCTURAL CONCRETE.

REBAR COVER: ALL DIMENSIONS SHOWING THE LOCATION OF REINFORCING STEEL NOT NOTED AS "CLEAR" ARE TO CENTER OF STEEL MINIMUM REBAR COVER (CLEAR) FOR NON-PRESTRESSED CONCRETE SHALL BE AS FOLLOWS:

LOCATION	MIN. COVERAGE (CLEAR)	TOLERANCES	
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:	3"	3/8"	
	EXPOSED TO EAR	TH OR WEATHER:	
#5 AND SMALLER BARS	1 1/2"	3/8"	
#6 AND LARGER BARS	2"	3/4"	
NOT EXPOSED TO	WEATHER OR IN CONTACT WITH	THE GROUND:	
STRUCTURAL SLABS & WALLS	3/4"	1/8"	
SLABS ON GRADE	1 1/2"	1/4"	
BEAMS AND COLUMNS (PRIMARY REINFORCEMENT, TIES, STIRRUPS AND SPIRALS)	1 1/2"	3/8"	

TOLERANCES OF REBAR PLACEMENT: TOLERANCE FOR LONGITUDINAL LOCATION OF BENDS AND ENDS OF REINFORCEMENT SHALL BE PLUS OR MINUS 2 INCHES EXCEPT AT DISCONTINUING ENDS OF MEMBERS WHERE TOLERANCES SHALL BE PLUS OR MINUS

DO NOT ADD WATER TO CONCRETE MIX AT SITE UNLESS APPROVED BY ARCHITECT CONCRETE: NORMAL WEIGHT CONCRETE SHALL HAVE A MINIMUM UNIT WEIGHT OF 145 POUNDS PER CUBIC FOOT.

AGGREGATE: NORMAL WEIGHT AGGREGATE CONFORMING TO ASTM C33. AGGREGATE SIZE CONFORMING TO: 3/4" ASTM C67 ASTM C67 ASTM C67

CEMENT: TYPE I BATCHING AND CONCRETE PLACEMENT UNLESS APPROVED BY ARCHITECT.

CONCRETE QUALITY:

1 1/2" ASTM C67

CONCRETE USE:	STRENGTH © 28 DAYS	SLUMP	AIR	AGGREGATE SIZE	AGGREGATE TYPE
FOUNDATIONS	3000	3"	ı	1 1/2"	ASTM C33
EXTERIOR SLABS	4500	4"	4-6%	1"	ASTM C33
STRUCTURAL WALLS	4000	4"	4-6%	1"	ASTM C33
YARD WALLS	4000	4"	4-6%	1 1/2"	ASTM C33
SLAB ON GRADE	3000	4"	4-6%	1"	ASTM C33

DO NOT ADD WATER TO CONCRETE MIX AT SITE UNLESS APPROVED BY

CONCRETE: NORMAL WEIGHT CONCRETE SHALL HAVE A MINIMUM UNIT WEIGHT OF 145 POUNDS PER CUBIC FOOT.

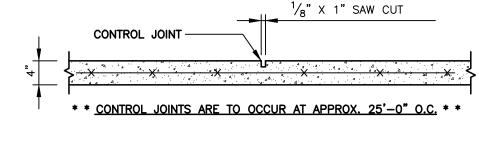
AGGREGATE: NORMAL WEIGHT AGGREGATE CONFORMING TO ASTM C33. AGGREGATE SIZE CONFORMING TO: 3/4"

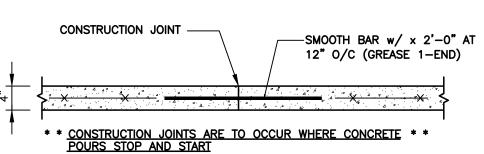
ASTM C67 1" ASTM C67 1 1/2" ASTM C67

CEMENT: TYPE I CONCRETE AGE: NO MORE THAN 90 MINUTES SHALL ELAPSE BETWEEN CONCRETE BATCHING AND CONCRETE PLACEMENT UNLESS APPROVED BY ARCHITECT.

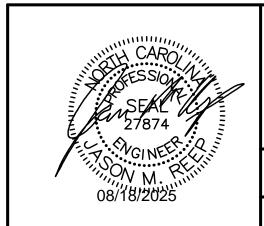
SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 ½"X2 ½" 14GA TUBE STEEL FRAMING MEMBERS WHERE 2 ½"X2 ½" 14GAUGE IS SPECIFIED, TS 2 ½"X 2 ½" 14GAUGE MAYBE USED AS AN OPTION FOR VERTICAL ROOF CONFIGURATION. AVERAGE FASTENER SPACING SHALL BE 9" FOR RAFTERS AND PURLINS FASTENERS SHALL BE #12 X 3" SELL DRILLING SCREWS WITH CONTROLSEAL WASHER. USE LAP JOINT SEALANT AT LOCATIONS LESS THAN 12 PITCH

ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6" OF EACH COLUMN (POST) ALONG SIDES AND ENDS.





TYPICAL JOINT DETAILS



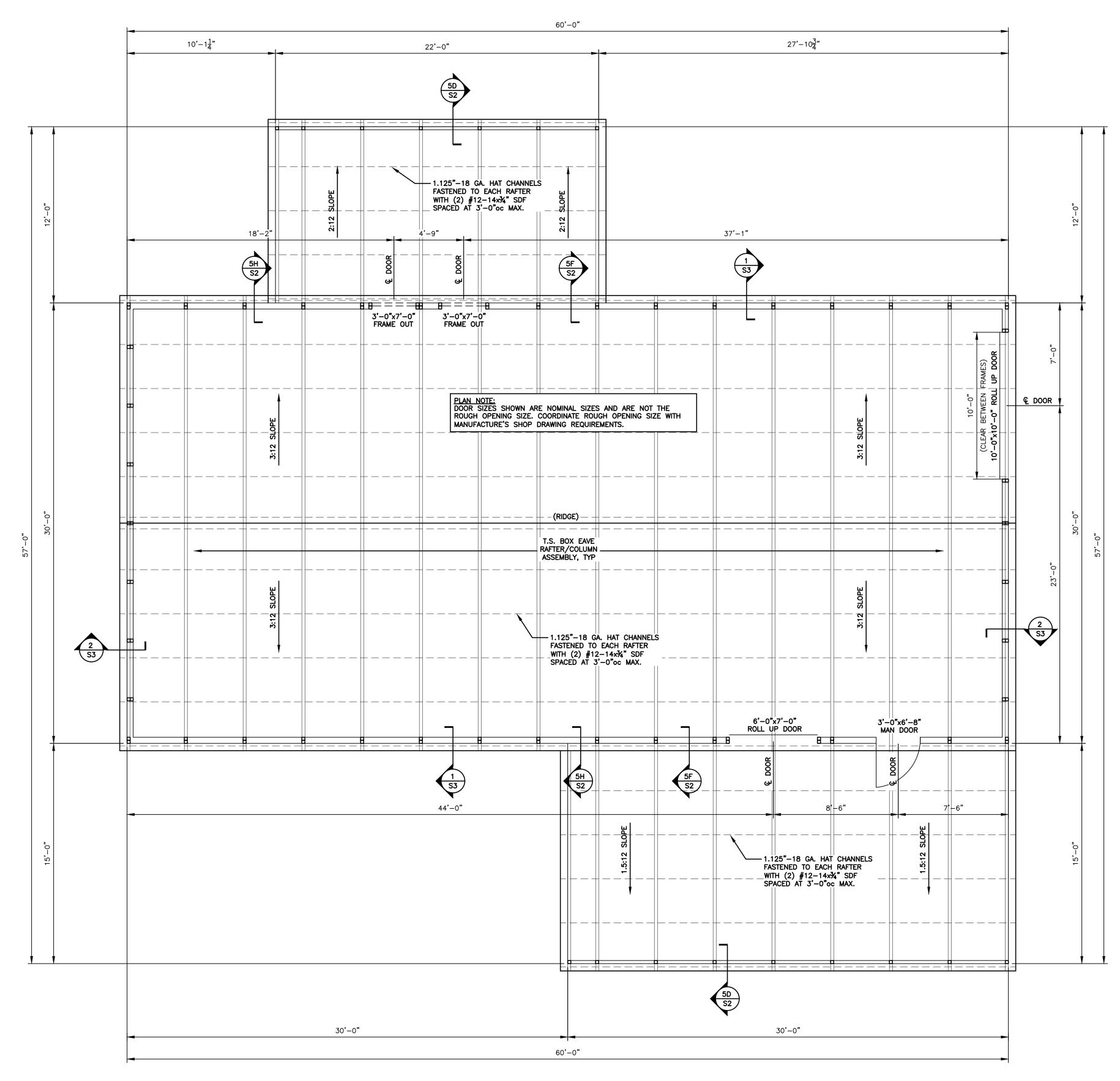
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Telephone: (336) 399-6277

JCMT Associates, PLLC 08/08/25 211 Stone Drive, Revisions: Pilot Mountain, NC 27041

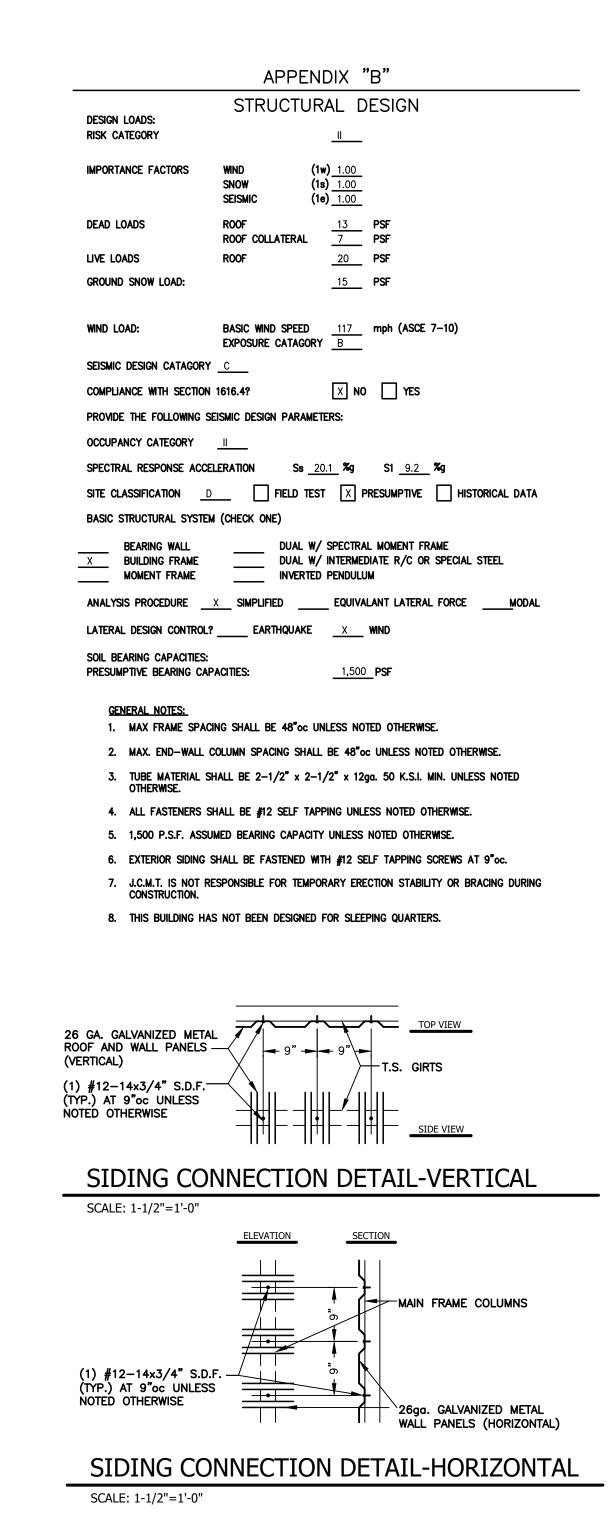
25-221 Sheet No. S1.1

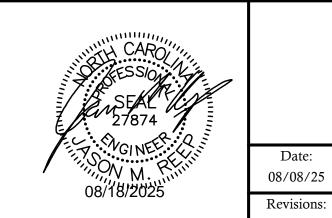
Project No.



FLOOR/ROOF FRAMING PLAN

SCALE: 1/4"=1'-0"



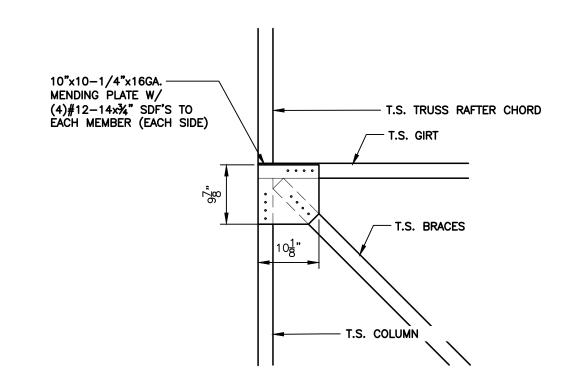


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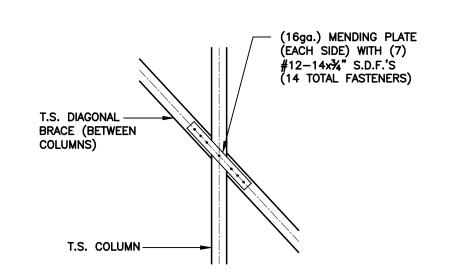
211 Stone Drive, Pilot Mountain, NC 27041 Telephone: (336) 399-6277 25-221 Sheet No. S1.2

Project No.



DIAGONAL BRACING CONNECTION DETAIL

S1.3 SCALE: 3/4" = 1'-0"

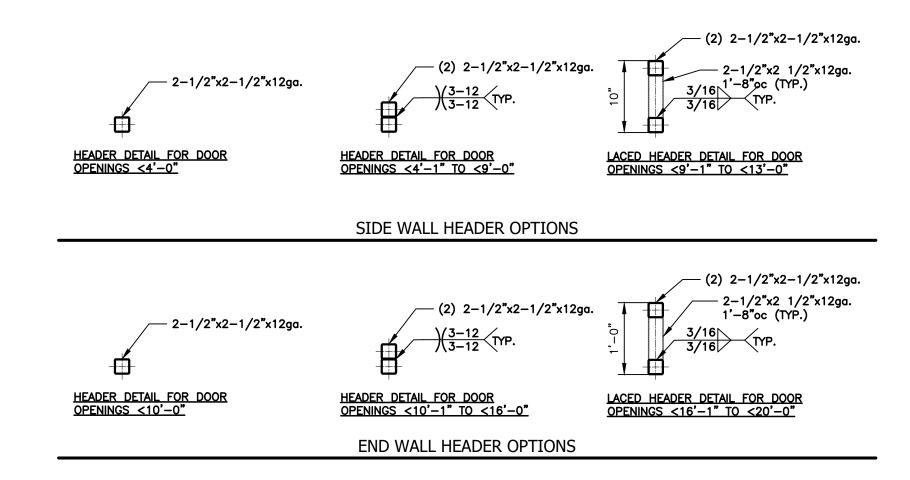


— T.S. COLUMN T.S. BRACES -— 10"x10"x16GA. MENDING PLATE W/ (4)#12–14x¾" SDF'S TO EACH MEMBER (EACH SIDE) T.S. BASE RAIL -2"x2"x2" 12GA ANGLE CLIP
SECURE TO COLUMN AND BASE
RAIL W/ (4) #12-14x3/4"
S.D.F.'S - (2) ON BOTTOM
AND (2) ON SIDE

DIAGONAL BRACING CONNECTION DETAIL

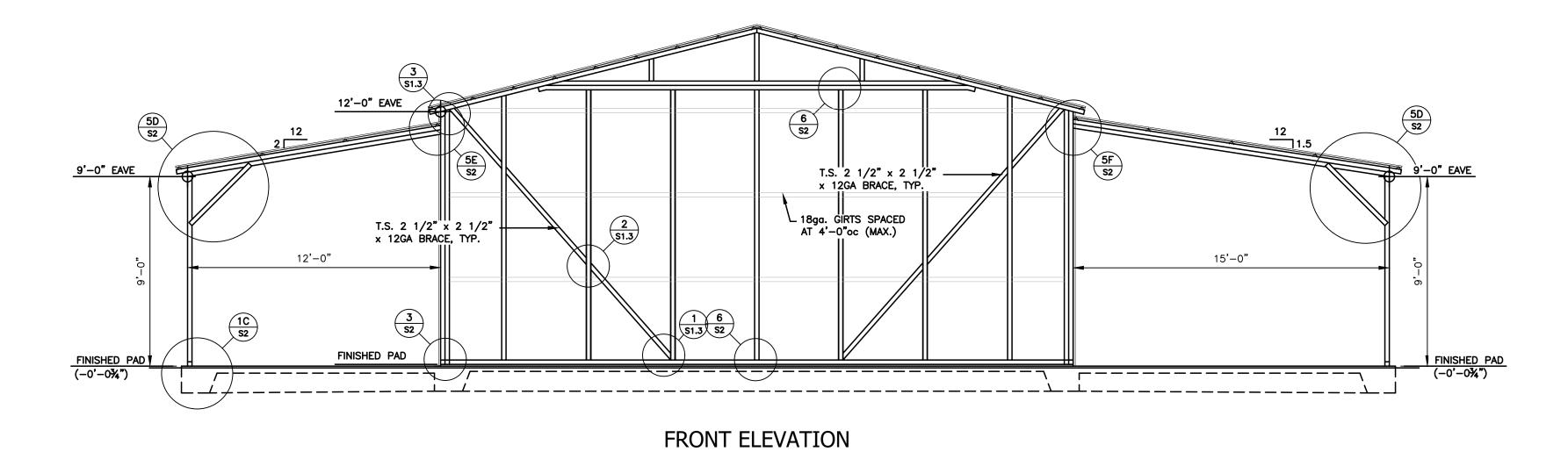
S1.3 SCALE: 3/4" = 1'-0"

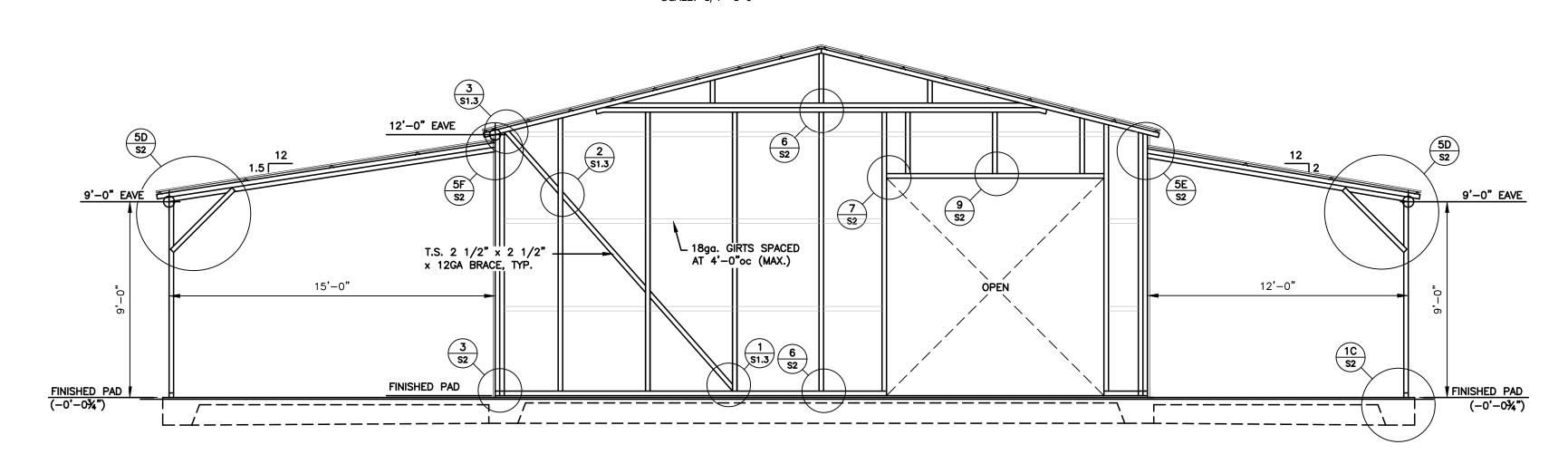
DIAGONAL BRACING CONNECTION DETAIL S1.3 SCALE: 3/4" = 1'-0"

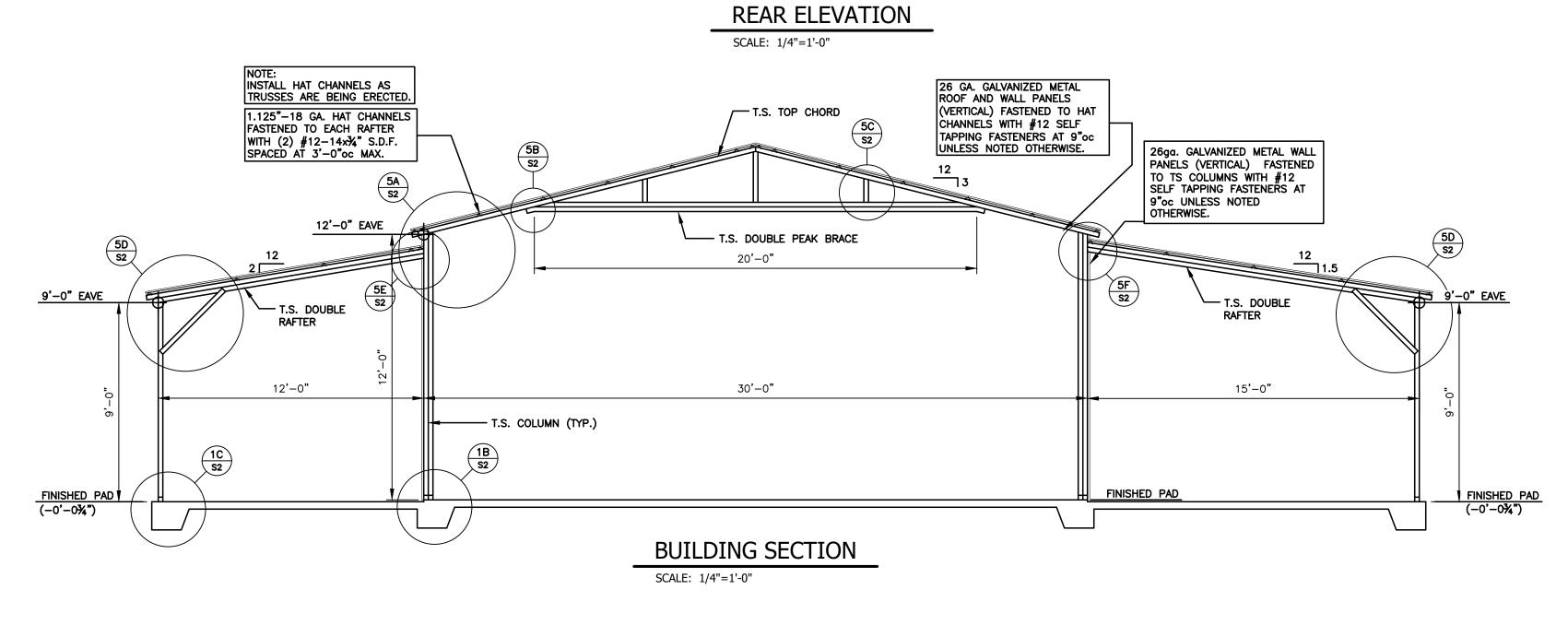


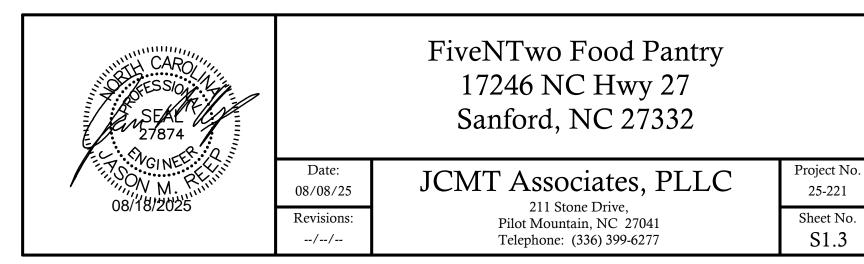
SIDE WALL / END WALL HEADER OPTIONS

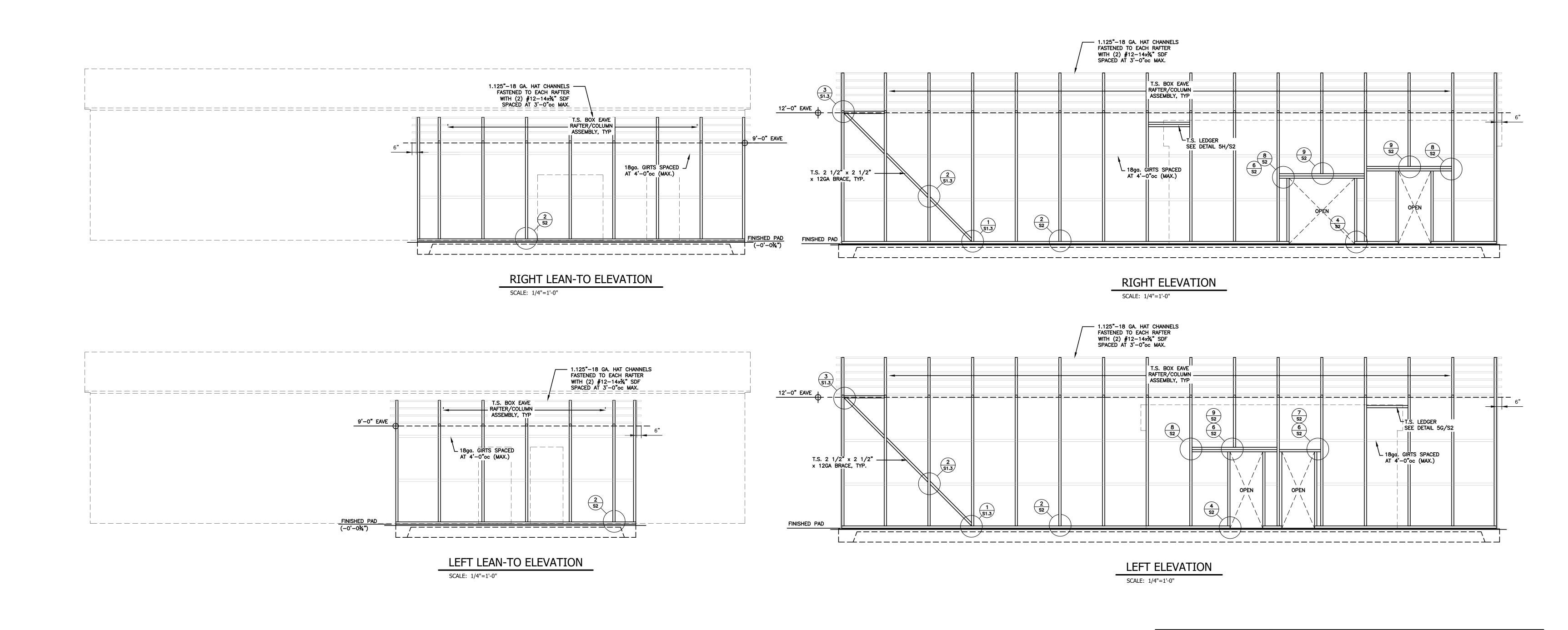
AA SIDE WALL
S1.3 SCALE: 3/4" = 1'-0"











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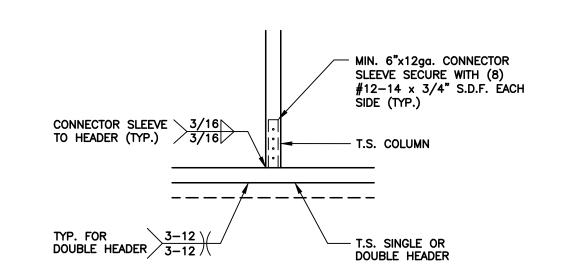
Revisions:

Project No.

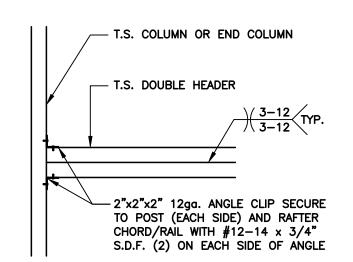
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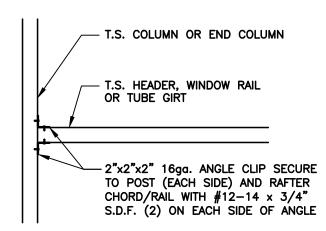
S1.4



HEADER TO COLUMN CONNECTION DETAIL NOTE: ALL TUBE STEEL SHALL BE 12ga. S2 \int SCALE: 3/4'' = 1'-0''



HEADER TO COLUMN CONNECTION DETAIL NOTE: ALL TUBE STEEL SHALL BE 12ga. SCALE: 3/4'' = 1'-0''



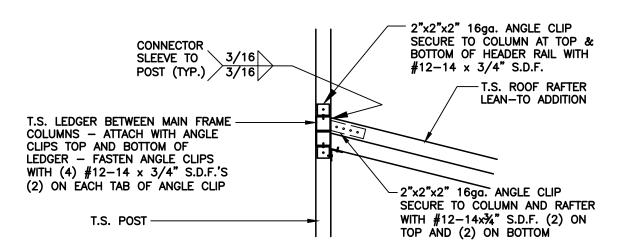
HEADER/GIRT TO COLUMN CONNECTION DETAIL

NOTE: ALL TUBE STEEL SHALL BE 12ga.

SCALE: 3/4" = 1'-0" ______T.S. TRUSS RAFTER CHORD OR HEADER T.S. END POST OR -DOOR WINDOW FRAME POST - 2"x2"x2" 16ga. ANGLE CLIP SECURE TO POST (EACH SIDE) AND RAFTER T.S. NON-STRUCTURAL -HEADER, BASE RAIL, OR WINDOW RAIL CHORD/RAIL WITH #12-14 x 3/4" S.D.F. (2) ON EACH SIDE OF ANGLE

RAIL TO POST CONNECTION DETAIL

NOTE: ALL TUBE STEEL SHALL BE 12ga. S2 / SCALE: 3/4" = 1'-0"



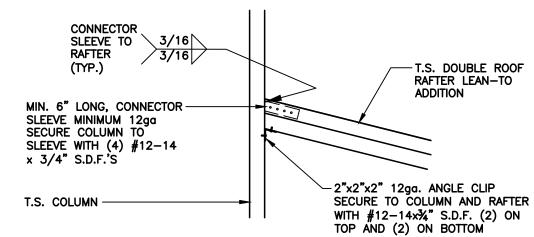
LEAN-TO RAFTER/POST CONNECTION DETAIL

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

THIS DETAIL WAS NOT USED

LEAN-TO RAFTER/POST CONNECTION DETAIL

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



LEAN-TO

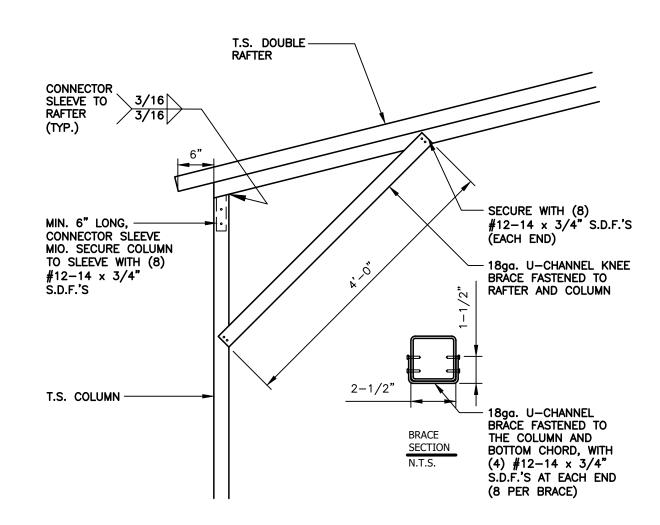
RAFTER TO COLUMN CONNECTION DETAIL NOTE: ALL TUBE STEEL SHALL BE 12ga. SCALE: 3/4" = 1'-0"

THIS DETAIL WAS NOT USED

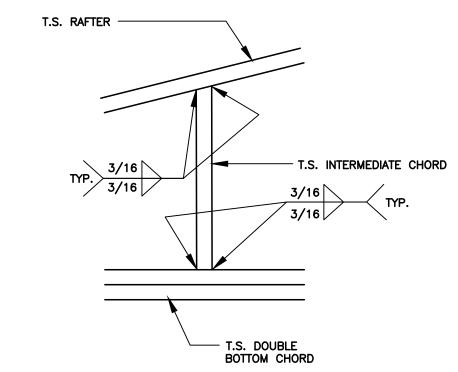
LEAN-TO

RAFTER TO COLUMN CONNECTION DETAIL

NOTE: ALL TUBE STEEL SHALL BE 12ga. SCALE: 3/4" = 1'-0"



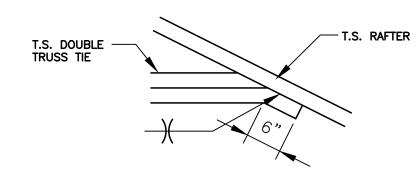
BOX EAVE RAFTER / COLUMN CONNECTION DETAIL NOTE: ALL TUBE STEEL SHALL BE 12ga. SCALE: 3/4" = 1'-0"



INTERMEDIATE CHORD TO TOP/BOTTOM

CHORD CONNECTION DETAIL

NOTE: ALL TUBE STEEL SHALL BE 12ga. SCALE: 3/4'' = 1'-0''

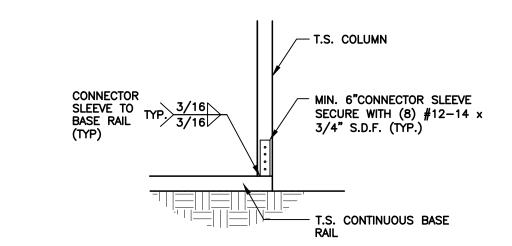


TRUSS TIE CONNECTION DETAIL

NOTE: ALL TUBE STEEL SHALL BE 12ga. SCALE: 3/4" = 1'-0"

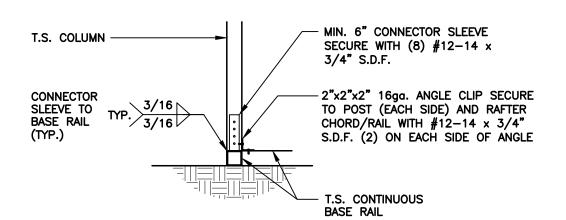
BOX EAVE RAFTER / COLUMN CONNECTION DETAIL

NOTE: ALL TUBE STEEL SHALL BE 12ga. SCALE: 3/4'' = 1'-0''



COLUMN / BASE RAIL CONNECTION DETAIL

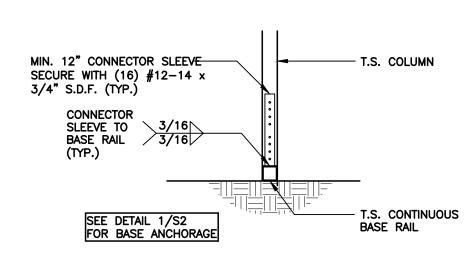
NOTE: ALL TUBE STEEL SHALL BE 12ga. S2 / SCALE: 3/4" = 1'-0"



END WALL COLUMN / BASE RAIL

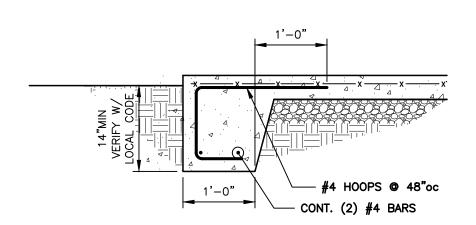
CONNECTION DETAIL

SCALE: 3/4" = 1'-0" NOTE: ALL TUBE STEEL SHALL BE 12ga.

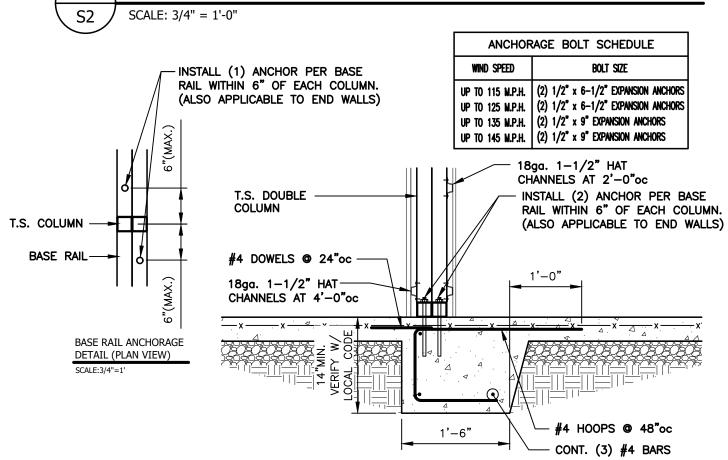


COLUMN / BASE RAIL CONNECTION DETAIL

NOTE: ALL TUBE STEEL SHALL BE 12ga. SCALE: 3/4" = 1'-0"

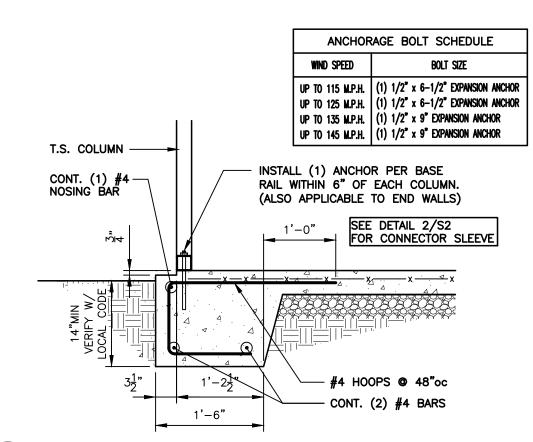






BASE RAIL ANCHORAGE DETAIL

SCALE: 3/4" = 1'-0" NOTE: ALL TUBE STEEL SHALL BE 12ga.

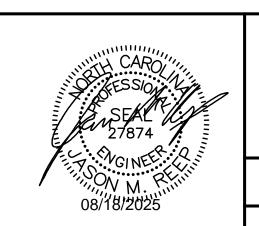


BASE RAIL ANCHORAGE DETAIL AT LEAN-TO

NOTE: ALL TUBE STEEL SHALL BE 12ga. SCALE: 3/4" = 1'-0"

BASE RAIL ANCHORAGE DETAIL

SCALE: 3/4" = 1'-0" NOTE: ALL TUBE STEEL SHALL BE 12ga.



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25-221 Sheet No. S2 Telephone: (336) 399-6277

Project No.

T.S. TRUSS CHORI		
T.S. PEAK BRACE BOTTOM TRUSS CH		
CONNECTOR SLEEVE TO BRACE / TRUSS		
METAL WALL PANE INSTALLED (VERTIC		
TYP. 3/16 3/16		
T.S. DOUBLE COLU		
INSTALL (1) ANCH		
INSTALL (1) ANCH RAIL WITHIN 6" OF (ALSO APPLICABLE		
T.S. DOUBLE COLU METAL WALL PANEL INSTALLED (VERTICA		
T.S. BASE RAIL —		
PLAN SCALE:		
METAL WALL PANE INSTALLED (VERTIO MIN. 6" x 14ga. 0 SLEEVE — SECURE #12-14 x 3/4" S		
#12-14 x 3/4" S CONNECTOR SLEEVE TO BASE RAIL (TYP.)		
CONT. (1) #4 NOS		
AS PER		
SIDE		
2 SIDE S3 SCALE: 3		

