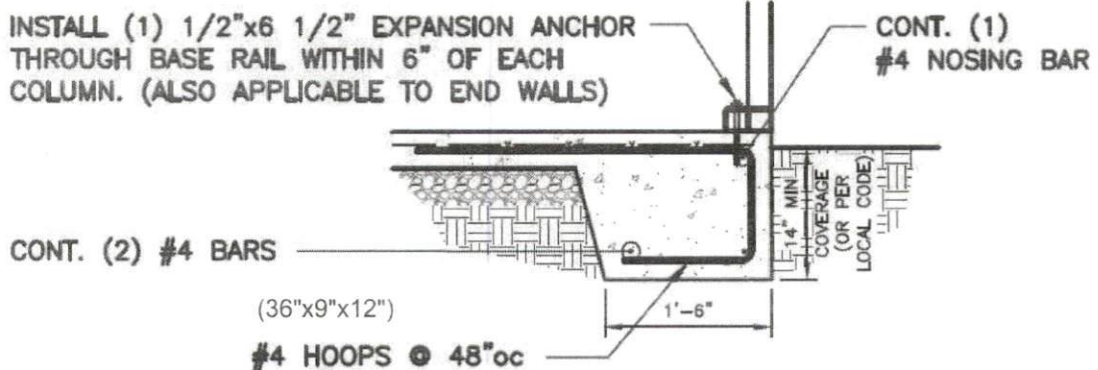


GRAY AREA REPRESENTS CONCRETE EXTENTS. HATCHED AREAS ARE FOOTING LOCATIONS. MINIMUM 18" WIDE x 14" DEEP FOOTINGS REQUIRED. MINIMUM 4" SLAB THICKNESS.

INSTALL (1) 1/2"x6 1/2" EXPANSION ANCHOR THROUGH BASE RAIL WITHIN 6" OF EACH COLUMN. (ALSO APPLICABLE TO END WALLS)



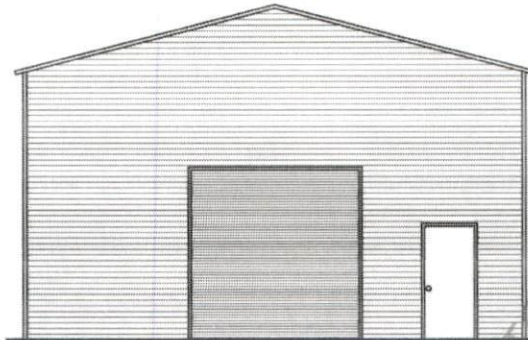
1 BASE RAIL ANCHORAGE DETAIL
 S8 (OPT.) SCALE: 1/2" = 1'-0"

AUTHORIZED USER:

TERRY RANDALL
263 CP STUART RD
LILLINGTON, NC
27546

BUILDING SIZE:

28'W X 44'L X 12'H



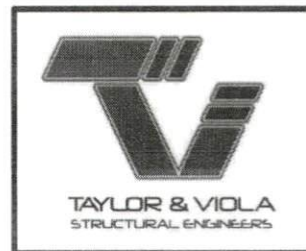
ENCLOSED GABLE END BUILDING

MAXIMUM 30'-0" WIDE X 16'-0" EAVE HEIGHT WITH BOX FRAME / 135 M.P.H. WIND ZONE - 30 P.S.F. SNOW LOAD

FOR:

FRONTLINE STEEL STRUCTURES, LLC
MT. AIRY, NORTH CAROLINA

ISSUE DATE: MAY 12, 2023



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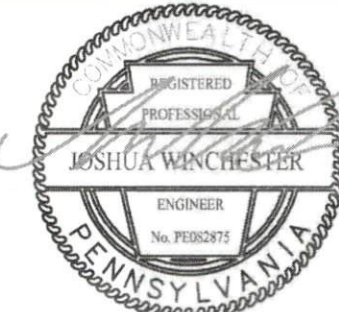
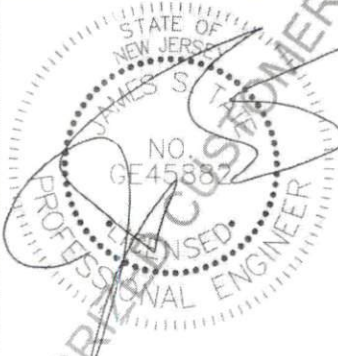
DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 NC BUILDING CODE (2015 IBC)



DOCUMENTS DESIGNED AND DRAW'N TO MEET THE 2021 SC BUILDING CODE (2021 IBC)



DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 VA CONSTRUCTION CODE (2018 IBC)



DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 IBC



DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2012 IBC



DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 IBC



DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 IBC



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STRUCTURAL ENGINEERS
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TELE: 828-328-6331 FAX: 828-322-1801
WWW.TAYLORVIOLA.COM

FRONTLINE STEEL
STRUCTURES, LLC
MT. AIRY, NORTH CAROLINA

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PROJECT NO:
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DATE:
2023.05.12

SHEET NO:
31

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DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 IBC



DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 KENTUCKY BUILDING CODE (2015 IBC)

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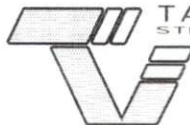
SHEET NO:
S1

NOTE: THESE DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THIS SHEET.

SHEET INDEX

SHEET NUMBER	SHEET TITLE
S0	COVER SHEET
S1	SEALS
S1A	SEALS
S2	INDEX
S3	GENERAL NOTES
S4	END ELEVATION
S4A	SIDE ELEVATION
S5	FRAME SECTIONS
S6	FRAME SECTIONS
S7	COLUMN CONNECTIONS
S7A	COLUMN CONNECTIONS
S8	BASE RAIL ANCHORAGE
S8A	BASE RAIL ANCHORAGE
S8B	BASE RAIL ANCHORAGE
S8C	BASE RAIL ANCHORAGE
S9	END WALL SECTIONS
S9A	END WALL SECTIONS
S9B	END WALL SECTIONS
S10	CONNECTION DETAILS
S11	CONNECTION DETAILS
S12	CONNECTION DETAILS
S13	CONNECTION DETAILS
S14	LEAN-TO OPTIONS
S14A	LEAN-TO OPTIONS
S14B	LEAN-TO OPTIONS
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S14D	LEAN-TO OPTIONS
S15	END ELEVATION - VERTICAL SIDING
S15A	SIDE ELEVATION - VERTICAL SIDING
S16	WALL SECTION - VERTICAL SIDING
S16A	WALL SECTION - VERTICAL SIDING
S17	HEADER INFORMATION
S17A	HEADER INFORMATION
S18	U-CHANNEL BRACE

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S2

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DESIGN LOADS:

IMPORTANCE FACTORS WIND (1w) 1.00
 SNOW (1s) 1.00
 SEISMIC (1e) 1.00

DEAD LOADS ROOF 13 PSF
 ROOF COLLATERAL 0 PSF

LIVE LOADS ROOF 20 PSF

GROUND SNOW LOAD: 30 PSF

GROUND LOAD: BASIC WIND SPEED V 135 mph (ASCE 7-16) DRIFT LOAD HAS NOT
 EXPOSURE CATAGORY B BEEN CALCULATED

SEISMIC DESIGN CATAGORY A

COMPLIANCE WITH SECTION 1616.4? NO YES

PROVIDE THE FOLLOWING SEISMIC DESIGN PARAMETERS:

OCCUPANCY CATEGORY I / II

SPECTRAL RESPONSE ACCELERATION Ss 20.5 %g S1 8.8 %g

SITE CLASSIFICATION D FIELD TEST PRESUMPTIVE HISTORICAL DATA

BASIC STRUCTURAL SYSTEM (CHECK ONE)

BEARING WALL DUAL W/ SPECTRAL MOMENT FRAME
 BUILDING FRAME DUAL W/ INTERMEDIATE R/C OR SPECIAL STEEL
 MOMENT FRAME INVERTED PENDULUM

ANALYSIS PROCEDURE SIMPLIFIED EQUIVALANT LATERAL FORCE MODAL

LATERAL DESIGN CONTROL? EARTHQUAKE WIND

SOIL BEARING CAPACITIES:
 PRESUMPTIVE BEARING CAPACITIES: 2,000 PSF

GENERAL NOTES:

1. MAX FRAME SPACING SHALL BE 60"oc UNLESS NOTED OTHERWISE.
2. MAX. END-WALL COLUMN SPACING SHALL BE 60"oc UNLESS NOTED OTHERWISE.
3. TUBE MATERIAL SHALL BE 2-1/2" x 2-1/2" x 14 GA. 50 KSI MIN. UNLESS NOTED OTHERWISE.
4. ALL FASTENERS SHALL BE #12 SELF TAPPING UNLESS NOTED OTHERWISE.
5. 2,000 PSF ASSUMED BEARING CAPACITY UNLESS NOTED OTHERWISE.



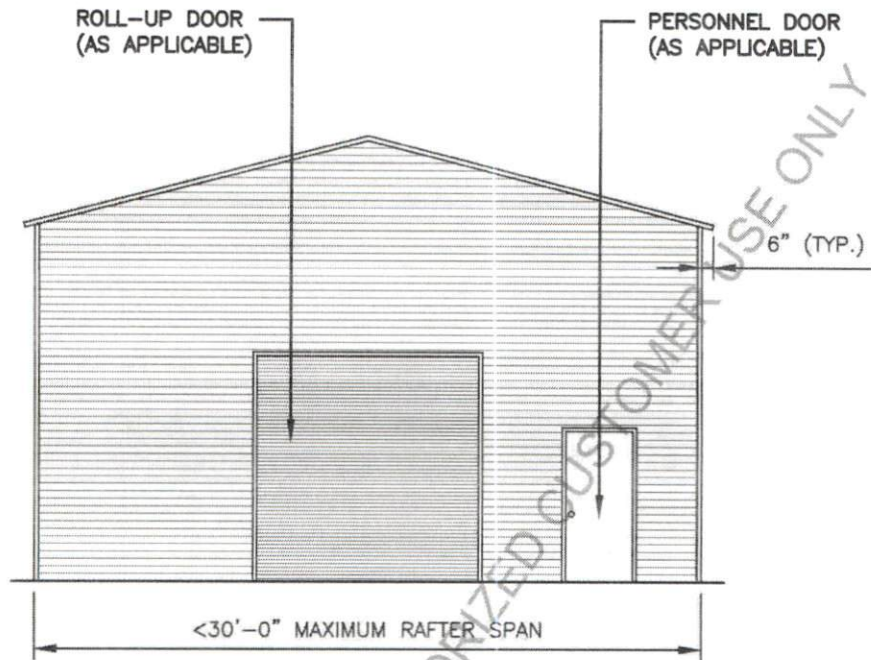
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33



TYPICAL END ELEVATION - VERTICAL ROOF



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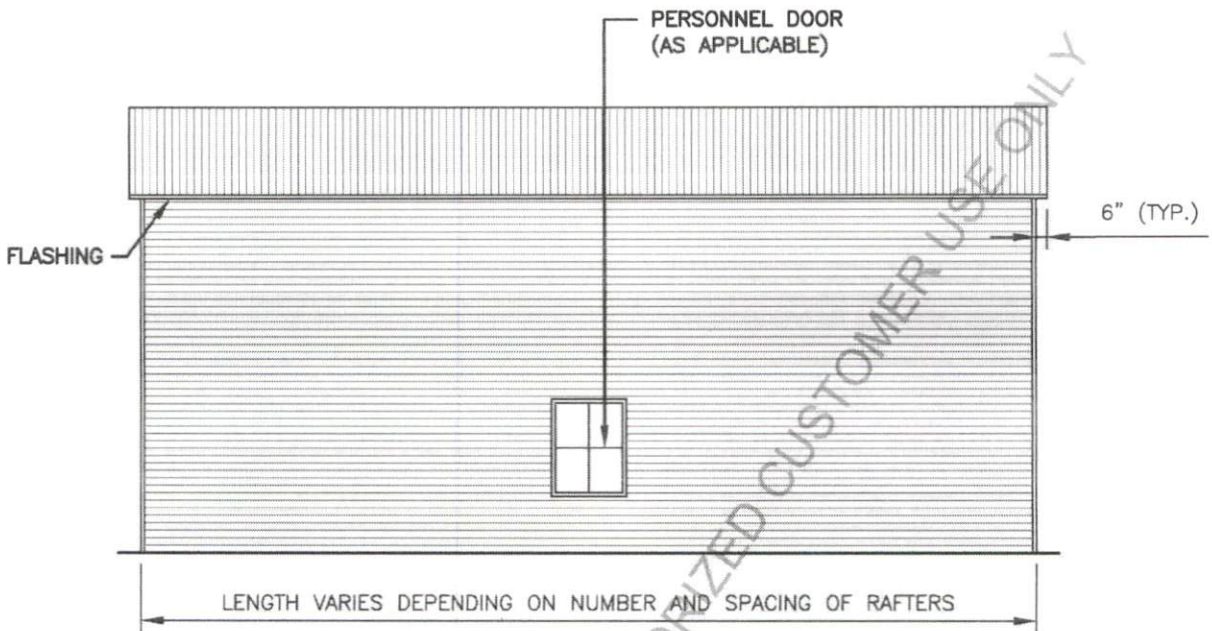
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2023.05.12

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S4

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TYPICAL SIDE ELEVATION - VERTICAL ROOF

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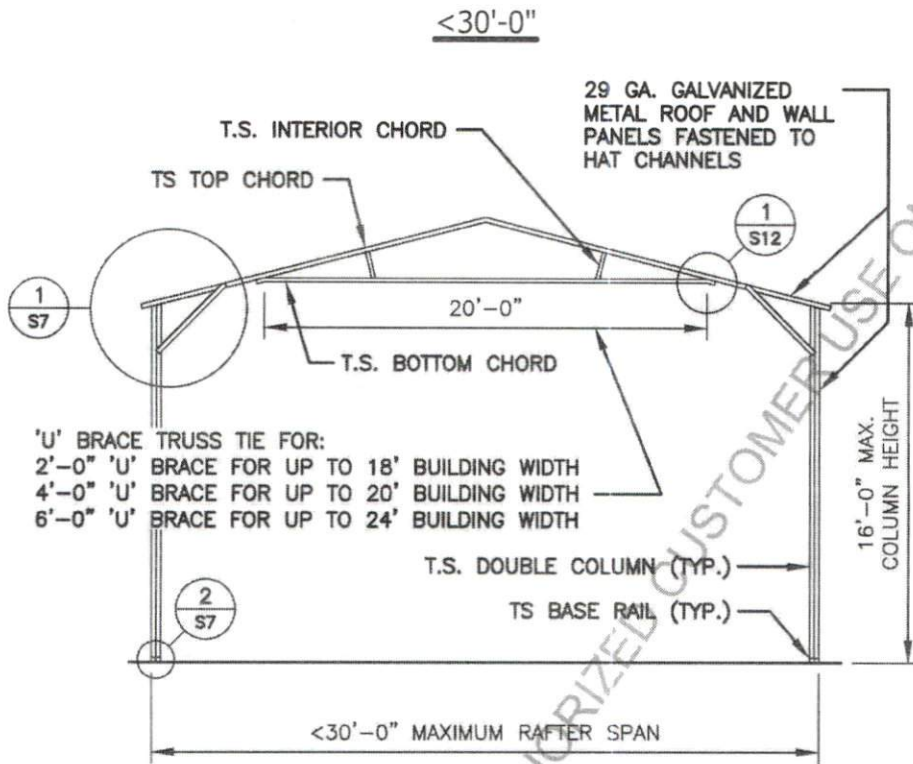
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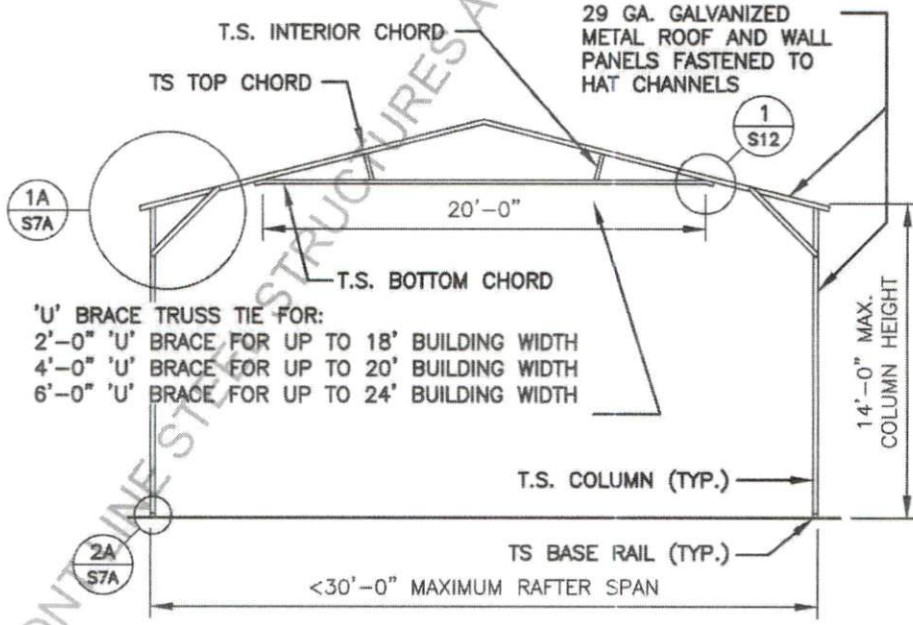
DATE:
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S4A

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TYPICAL RAFTER / COLUMN FRAME SECTION



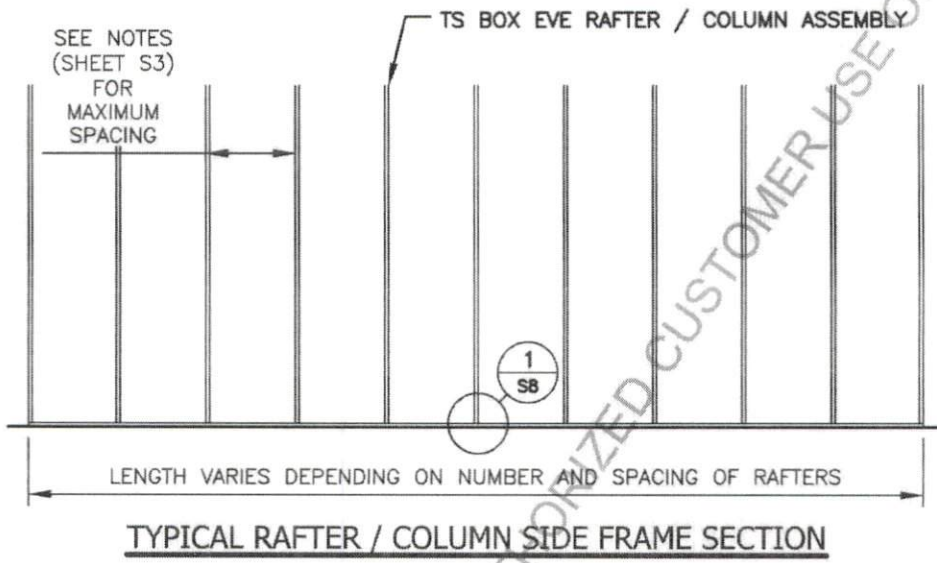
TYPICAL RAFTER / COLUMN FRAME SECTION



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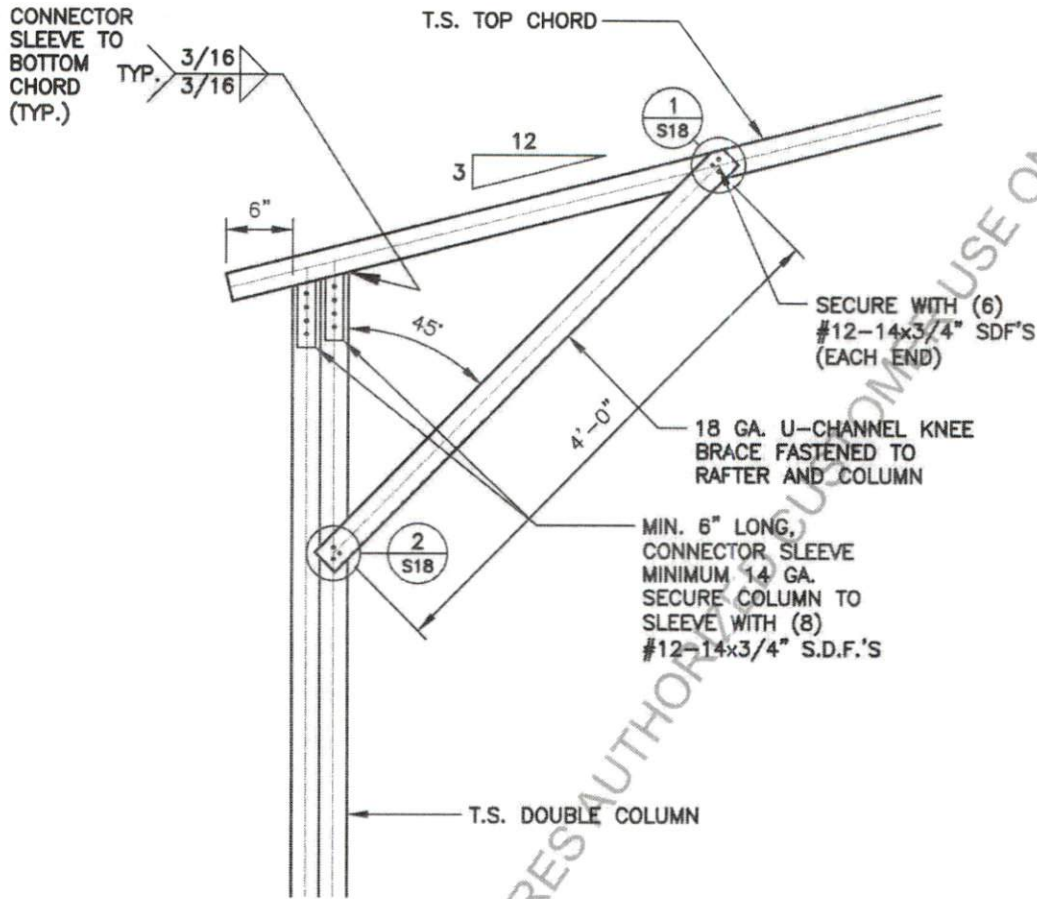
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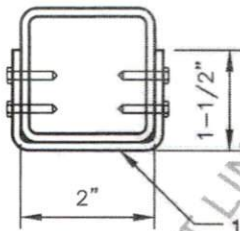
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S8

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DOUBLE TUBE COLUMN OPTION

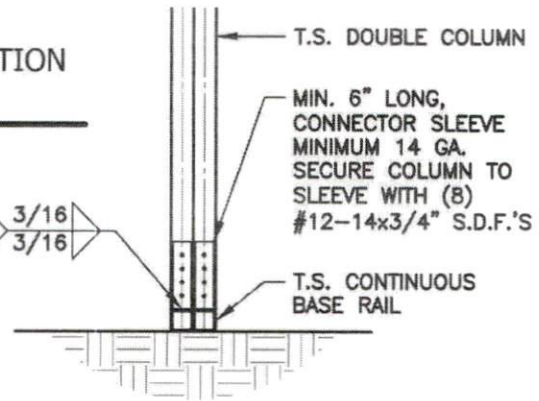


1
S7
BOX EAVE RAFTER COLUMN CONNECTION
DETAIL FOR HEIGHTS <16'-0"
SCALE: 3/4" = 1'-0"



BRACE SECTION

18 GA. U-CHANNEL BRACE FASTENED TO THE COLUMN AND BOTTOM CHORD, WITH (8) #12-14x3/4" SDF'S AT EACH END (16 PER BRACE)



2
S7
COLUMN / BASE RAIL CONNECTION DETAIL
SCALE: 3/4" = 1'-0"



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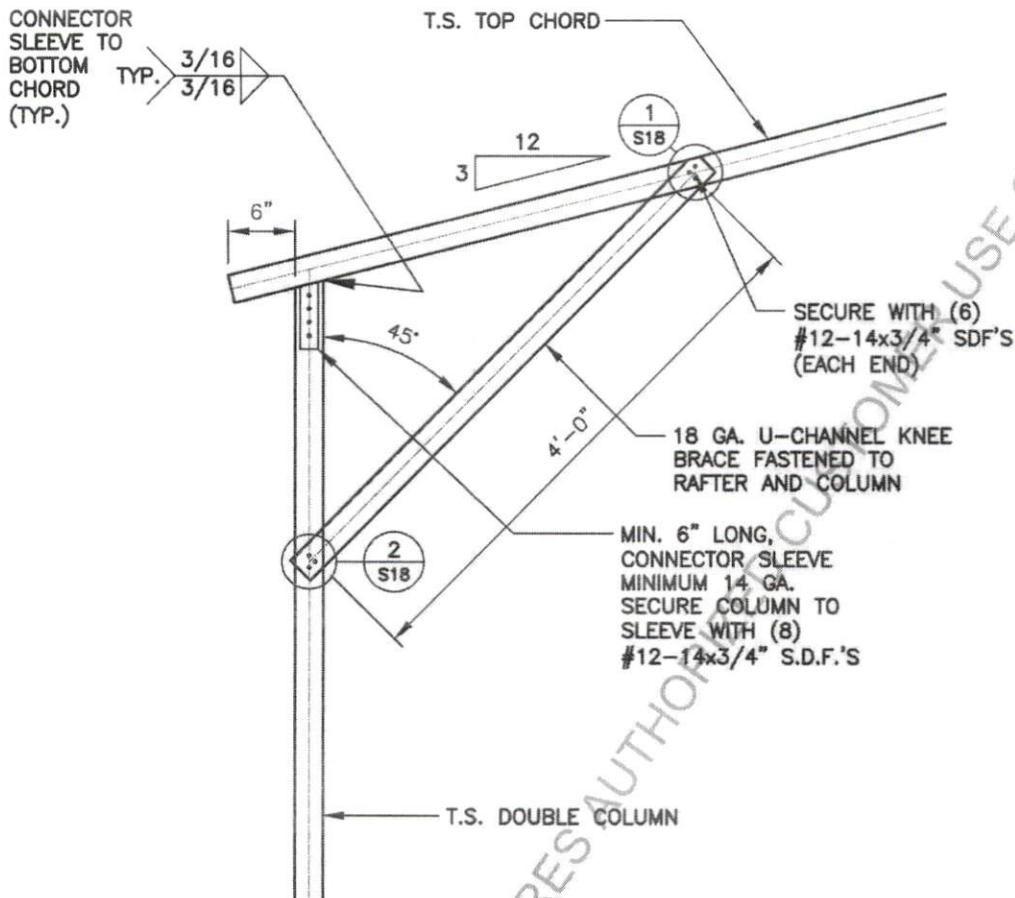
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DATE:
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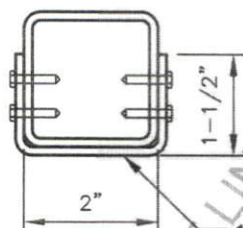
SINGLE TUBE COLUMN OPTION



BOX EAVE RAFTER COLUMN CONNECTION
DETAIL FOR HEIGHTS < 14'-0"

1A
S7A

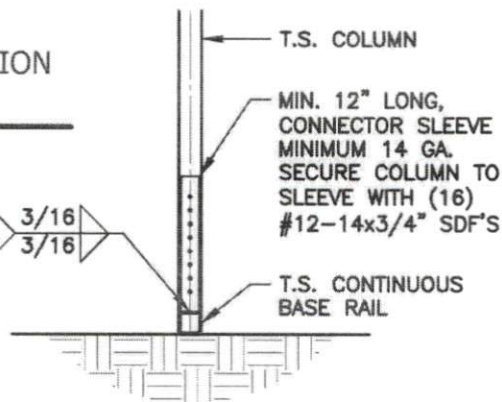
SCALE: 3/4" = 1'-0"



BRACE SECTION

18 GA. U-CHANNEL BRACE FASTENED TO THE COLUMN AND BOTTOM CHORD, WITH (8) #12-14x3/4" SDF'S AT EACH END (16 PER BRACE)

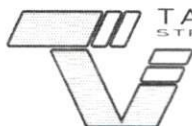
CONNECTOR SLEEVE TO BOTTOM CHORD (TYP.) $\frac{3}{16}$ / $\frac{3}{16}$



COLUMN / BASE RAIL CONNECTION DETAIL

2A
S7A

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



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S7A

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BASE RAIL ANCHORAGE

INSTALL (1) 1/2"x6 1/2" EXPANSION ANCHOR THROUGH BASE RAIL WITHIN 6" OF EACH COLUMN. (ALSO APPLICABLE TO END WALLS)

CONT. (1) #4 NOSING BAR

CONT. (2) #4 BARS

#4 HOOPS @ 48"oc



1 BASE RAIL ANCHORAGE DETAIL

S8 SCALE: 1/2" = 1'-0"

INSTALL (1) 1/2"x6 1/2" EXPANSION ANCHOR THROUGH BASE RAIL WITHIN 6" OF EACH COLUMN. (ALSO APPLICABLE TO END WALLS)

CONT. (1) #4 NOSING BAR

CONT. (2) #4 BARS

#4 HOOPS @ 48"oc

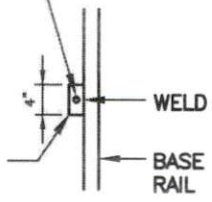


1 BASE RAIL ANCHORAGE DETAIL

S8 (OPT.) SCALE: 1/2" = 1'-0"

INSTALL (1) 1/2"x6 1/2" EXPANSION ANCHOR THROUGH BASE RAIL WITHIN 6" OF EACH COLUMN. (ALSO APPLICABLE TO END WALLS)

SAME MATERIAL AS BASE RAIL



PLAN VIEW

GENERAL NOTES:

ALL CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 2,000 PSF

CONCRETE:

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS

COVER OVER REINFORCING STEEL:

FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318: 3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH AND WEATHER AND 1-1/2" ELSEWHERE.

REINFORCING STEEL:

THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

REINFORCEMENT MAT BE BENT IN THE SHOP OF THE FIELD PROVIDED:

1. REINFORCEMENT IS BENT COLD.
2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.
3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.

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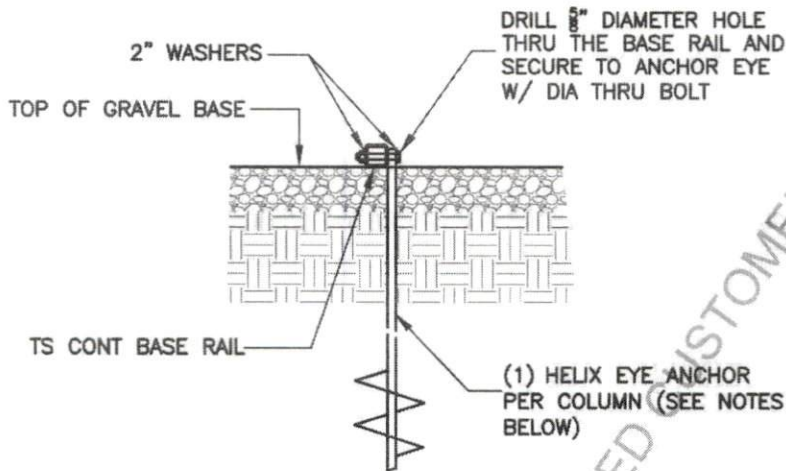
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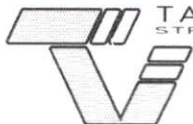
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BASE RAIL ANCHORAGE



1 BASE RAIL ANCHORAGE DETAIL
S8A SCALE: 3/4" = 1'-0"

HELIX EMBEDMENT INFORMATION:
 FOR VERY DENSE OR CEMENTED SANDS, COARSE GRAVEL, COBBLES, CALICHE, PRELOADED SILTS AND CLAYS, USE MIN (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH 50" EMBEDMENT
 FOR CORAL, USE MIN (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH 50" EMBEDMENT
 FOR MED DENSE COARSE SANDS, SANDY GRAVEL, VERY STIFF SILTS, AND CLAYS, USE MIN (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH 50" EMBEDMENT
 FOR LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS, USE MIN (2) 6" HELICES WITH MINIMUM 50" EMBEDMENT
 FOR VERY LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS AND ALLUVIAL FILL, USE MIN (2) 8" HELICES WITH MINIMUM 60" EMBEDMENT



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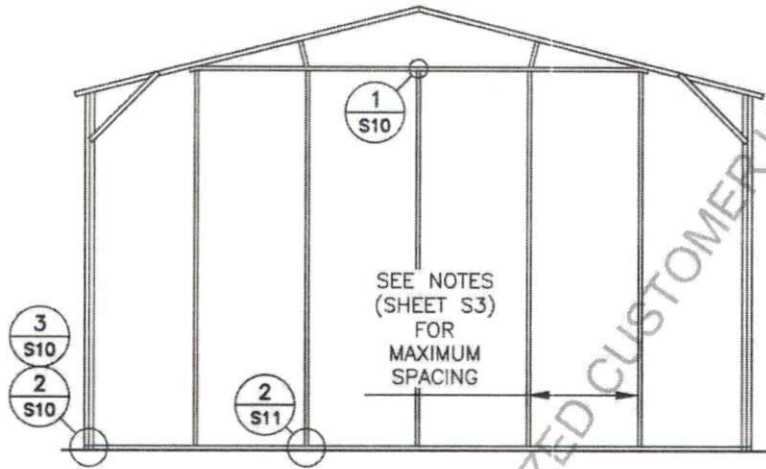
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TYPICAL END WALL FRAMING SECTION



TYPICAL END WALL FRAMING SECTION

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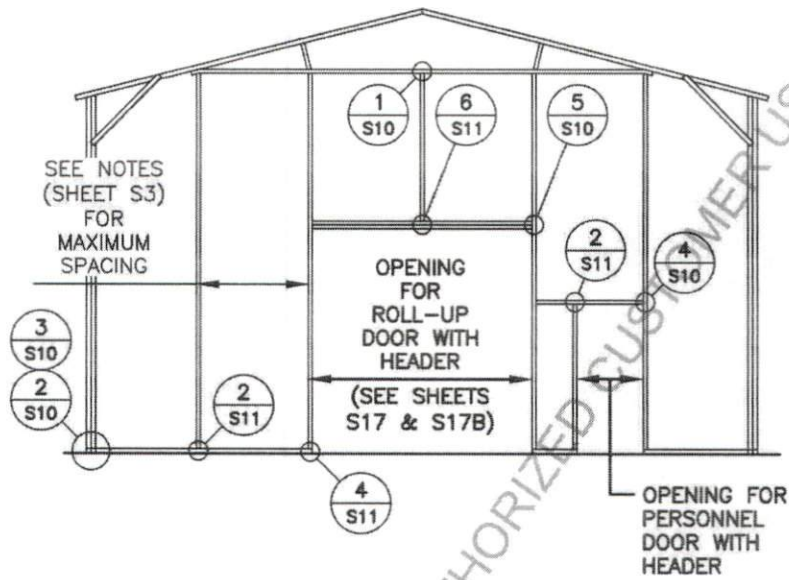
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DATE:
2023.05.12

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S9

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TYPICAL END WALL FRAMING SECTION



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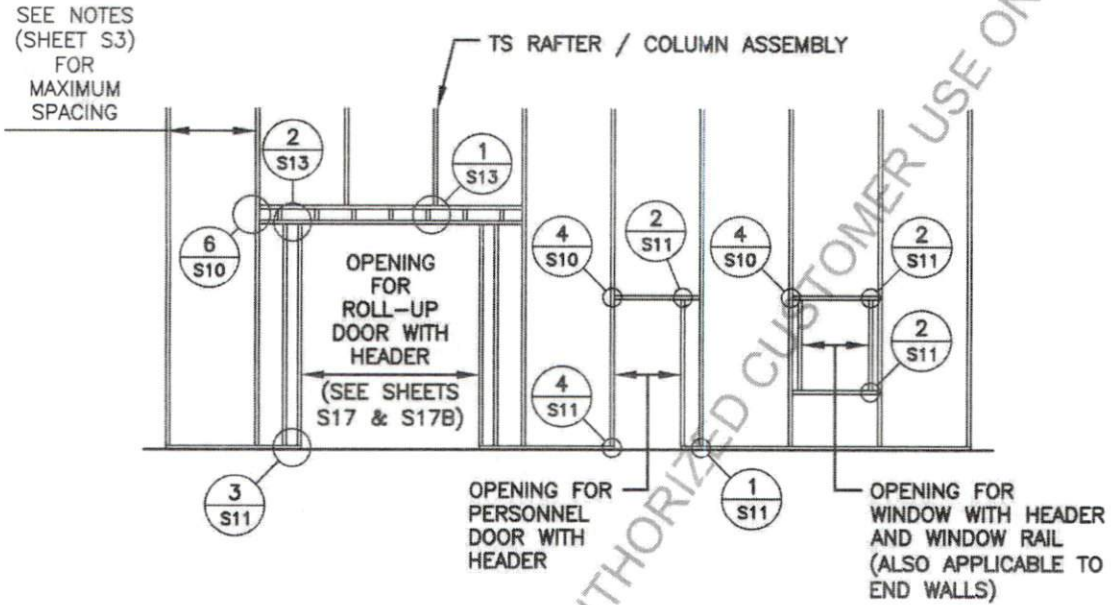
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MISC

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SHEET NO:
S0A

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TYPICAL SIDE WALL OPENING FRAMING SECTION



TYPICAL SIDE WALL OPENINGS FRAMING SECTION



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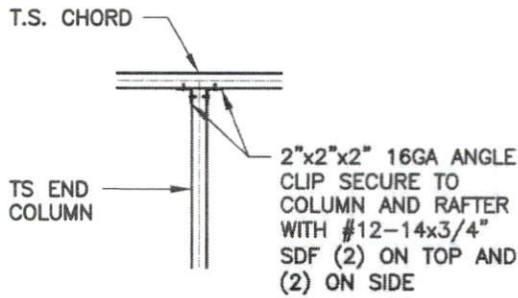
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2023.05.12

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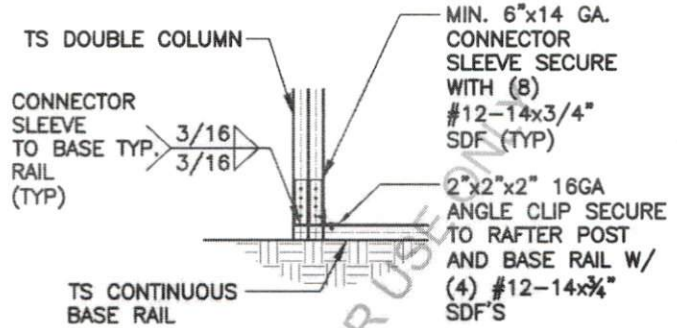
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CONNECTION DETAILS



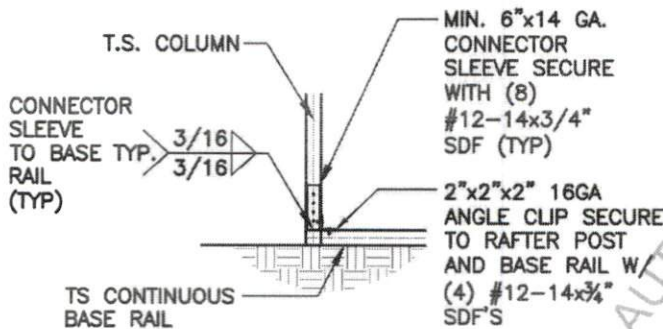
1
1
S10
 BOTTOM CHORD CONNECTION DETAIL

SCALE: 1/2" = 1'-0"



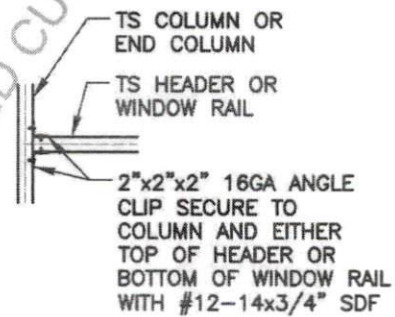
2
2
S10
 COLUMN / BASE RAIL CONNECTION DETAIL

SCALE: 1/2" = 1'-0"



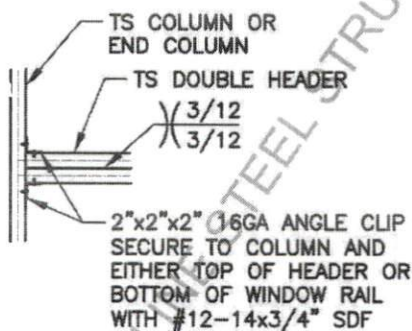
3
3
S10
 END POST / BASE RAIL CONNECTION DETAIL

SCALE: 1/2" = 1'-0"



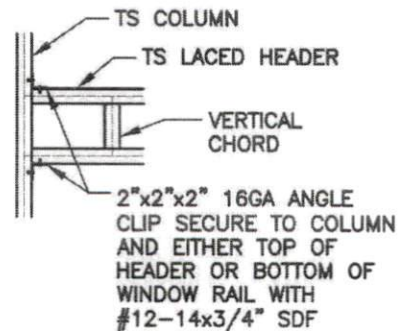
4
4
S10
 COLUMN OR WINDOW RAIL / WALL GIRTS TO POST CONNECTION DETAIL

SCALE: 1/2" = 1'-0"



5
5
S10
 COLUMN / DOUBLE HEADER CONNECTION DETAIL

SCALE: 1/2" = 1'-0"



6
6
S10
 COLUMN / LACED HEADER CONNECTION DETAIL

SCALE: 1/2" = 1'-0"



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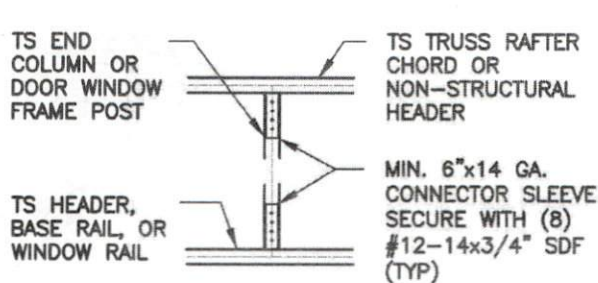
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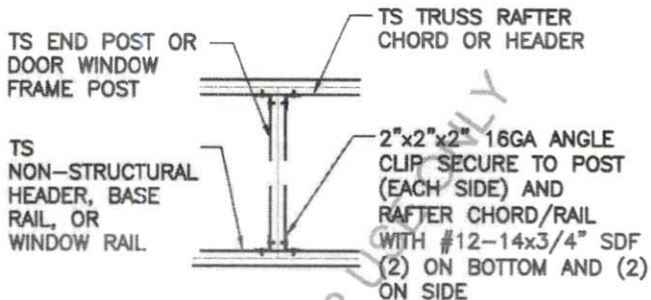
CONNECTION DETAILS



1
S11

COLUMN TO HEADER OR BASE RAIL CONNECTION DETAIL

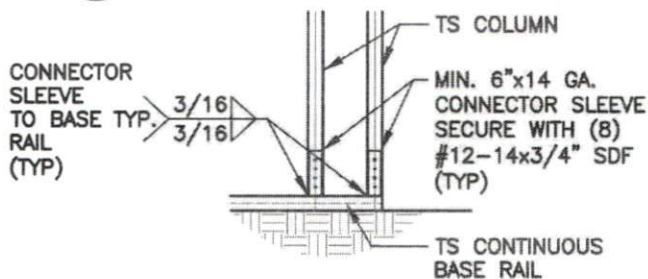
SCALE: 1/2" = 1'-0"



2
S11

DOOR OR WINDOW HEADER RAIL TO POST CONNECTION DETAIL

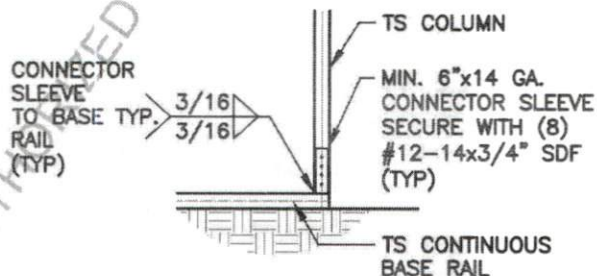
SCALE: 1/2" = 1'-0"



3
S11

COLUMN / BASE RAIL CONNECTION DETAIL

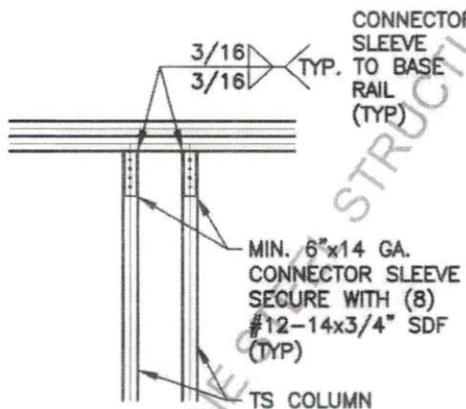
SCALE: 1/2" = 1'-0"



4
S11

COLUMN / BASE RAIL CONNECTION DETAIL

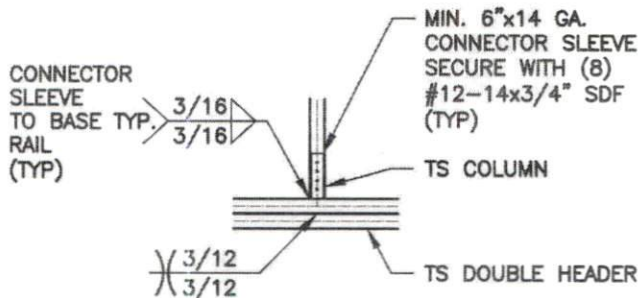
SCALE: 1/2" = 1'-0"



5
S11

DOUBLE HEADER / COLUMN CONNECTION DETAIL

SCALE: 1/2" = 1'-0"



6
S11

COLUMN / DOUBLE HEADER CONNECTION DETAIL

SCALE: 1/2" = 1'-0"

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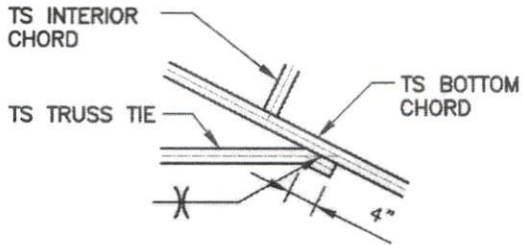
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CONNECTION DETAILS



TRUSS TIE
CONNECTION DETAIL

1
S12

SCALE: 1/2" = 1'-0"

FRONT LINE STEEL STRUCTURES AUTHORIZED CUSTOMER USE ONLY



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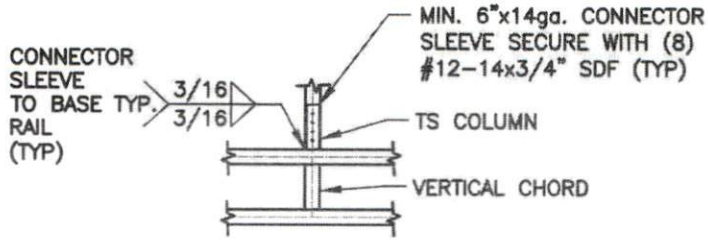
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S12

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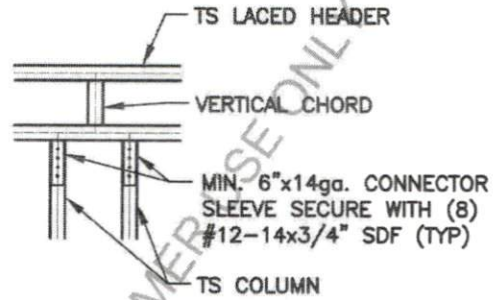
CONNECTION DETAILS



COLUMN / LACED HEADER
CONNECTION DETAIL

1
S13

SCALE: 1/2" = 1'-0"



LACED HEADER / COLUMN
CONNECTION DETAIL

1
S13

SCALE: 1/2" = 1'-0"

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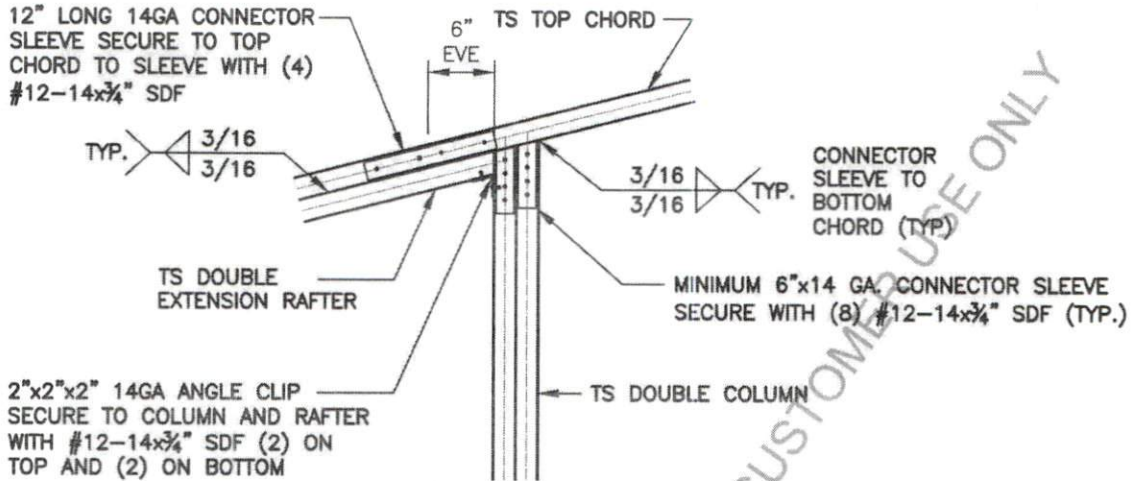
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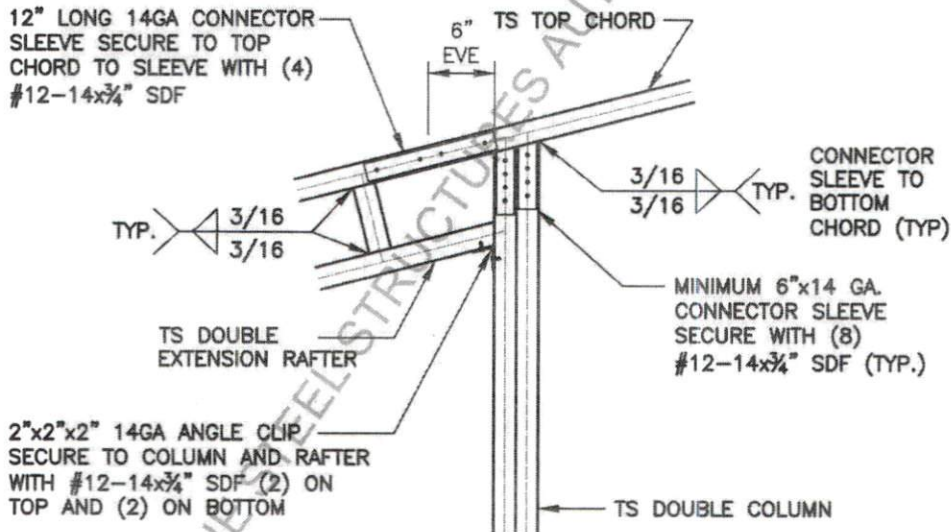
LEAN-TO OPTIONS FOR 41'-0" TO 50'-0"



SIDE EXTENSION RAFTER / CORNER POST
DETAIL FOR RAFTER SPAN <14'-1" TO <15'-0"

1
S14A

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



SIDE EXTENSION RAFTER / CORNER POST
DETAIL FOR RAFTER SPAN <15'-1" TO <20'-0"

2
S14A

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



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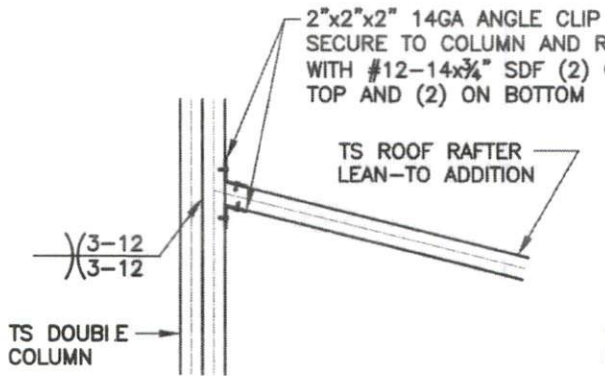
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14A

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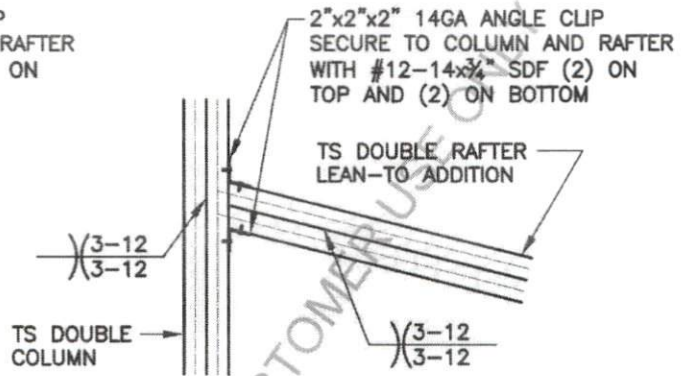
LEAN-TO OPTIONS FOR 41'-0" TO 50'-0"



LEAN-TO RAFTER TO RAFTER
POST CONNECTION DETAIL FOR
RAFTER SPAN < 12'-0"

1
S14B

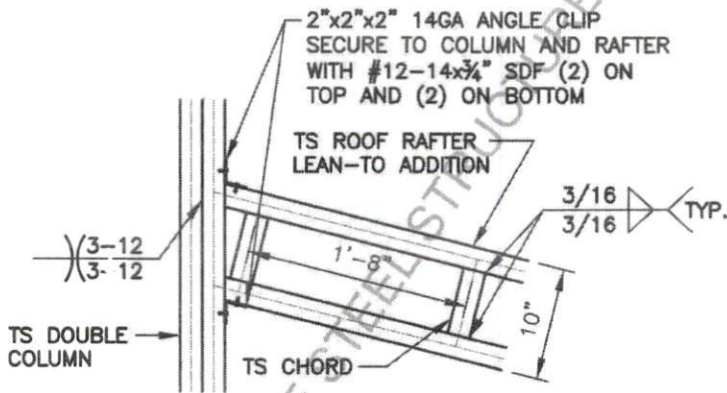
SCALE: 3/4" = 1'-0"



LEAN-TO RAFTER TO RAFTER
POST CONNECTION DETAIL FOR
RAFTER SPAN < 12'-1" TO < 15'-0"

2
S14B

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



LEAN-TO RAFTER TO RAFTER
POST CONNECTION DETAIL FOR
RAFTER SPAN < 15'-1" TO < 20'-0"

3
S14B

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



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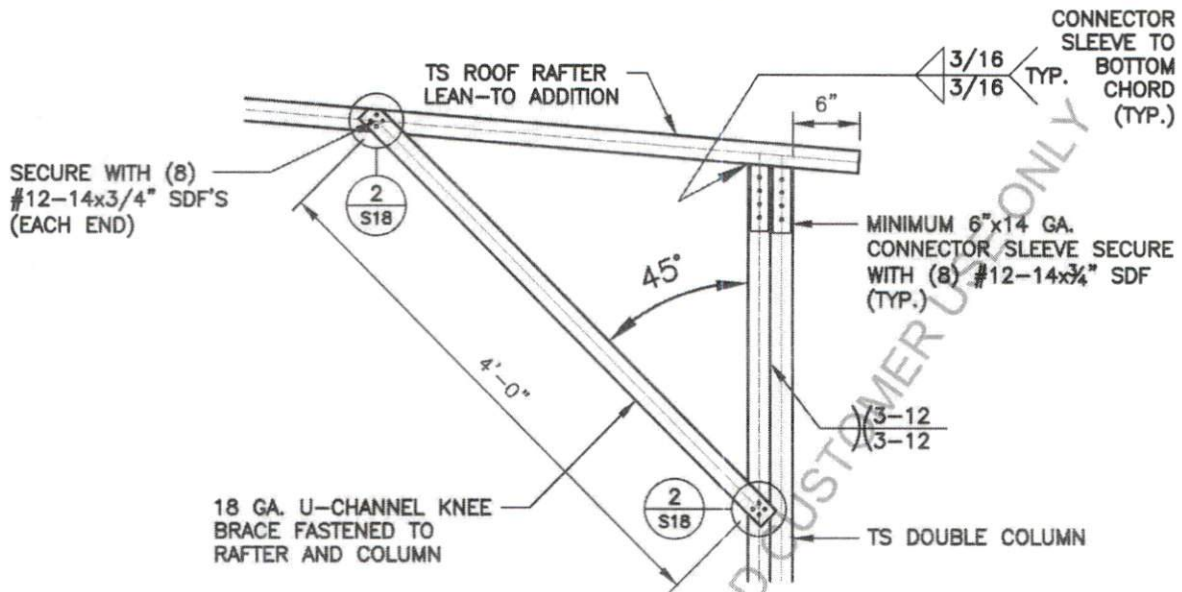
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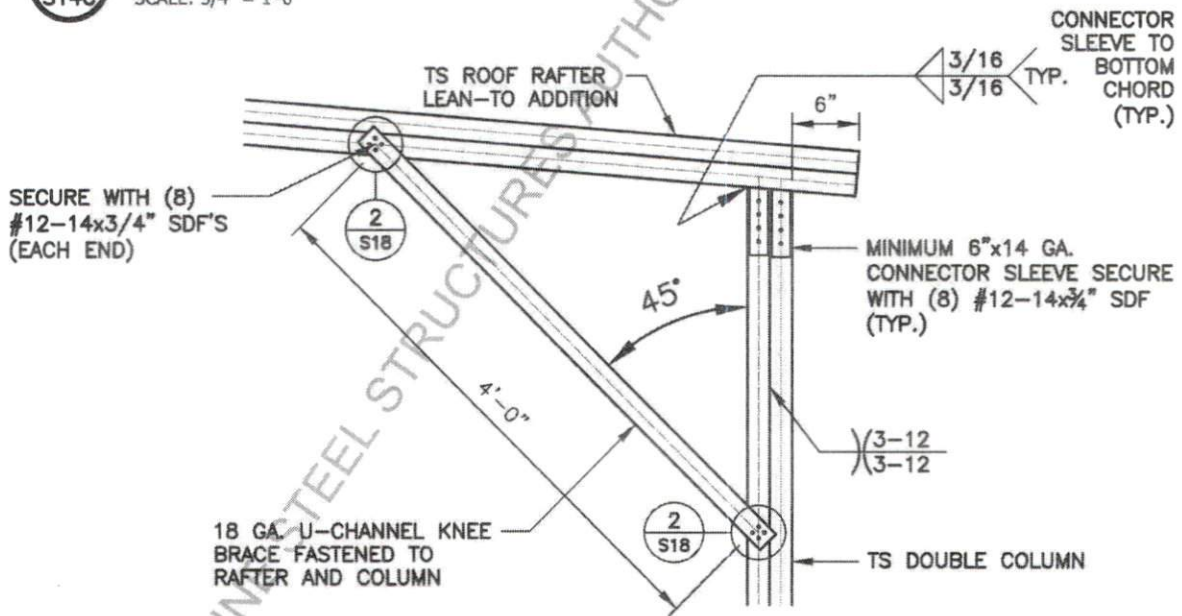
SHEET NO:
S14B

LEAN-TO OPTIONS FOR 41'-0" TO 50'-0"



BOX EAVE RAFTER COLUMN CONNECTION
DETAIL FOR RAFTER SPAN <12'-0"

1
S14C SCALE: 3/4" = 1'-0"



BOX EAVE RAFTER COLUMN CONNECTION
DETAIL FOR RAFTER SPAN <12'-1" TO <15'-0"

2
S14C SCALE: 3/4" = 1'-0"

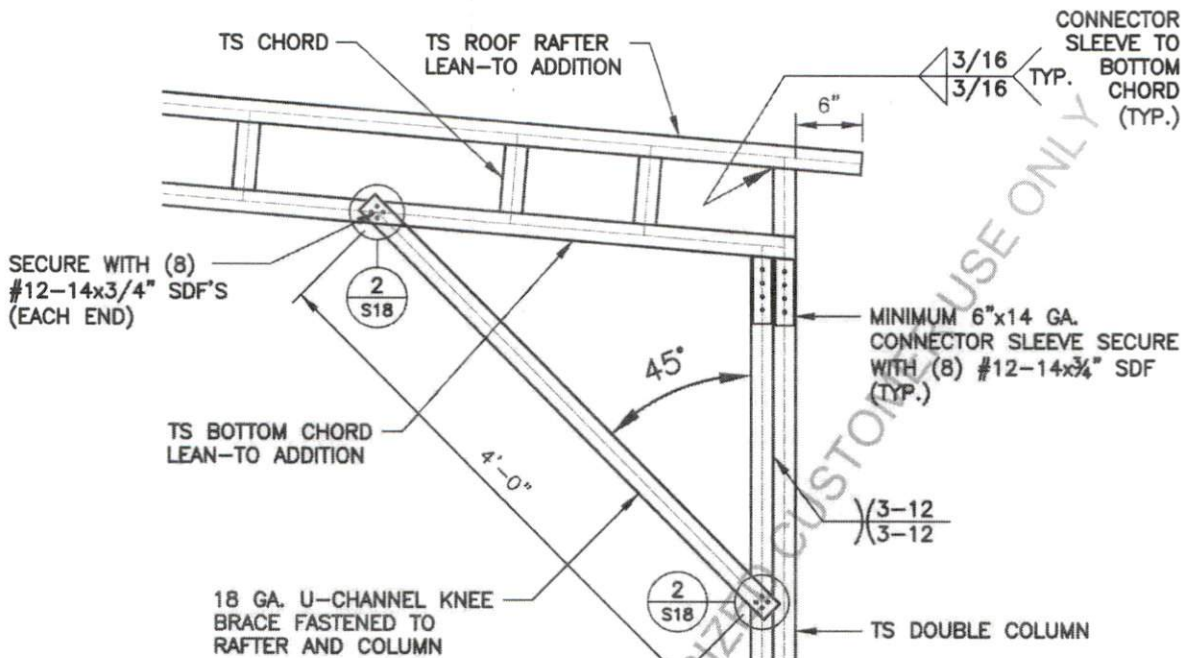


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DATE: 2023.05.12	SHEET NO: S14C

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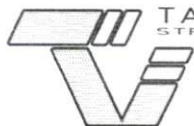
LEAN-TO OPTIONS FOR 41'-0" TO 50'-0"



BOX EAVE RAFTER COLUMN CONNECTION
 DETAIL FOR RAFTER SPAN <15'-1" TO <20'-0"

1
 S14D

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



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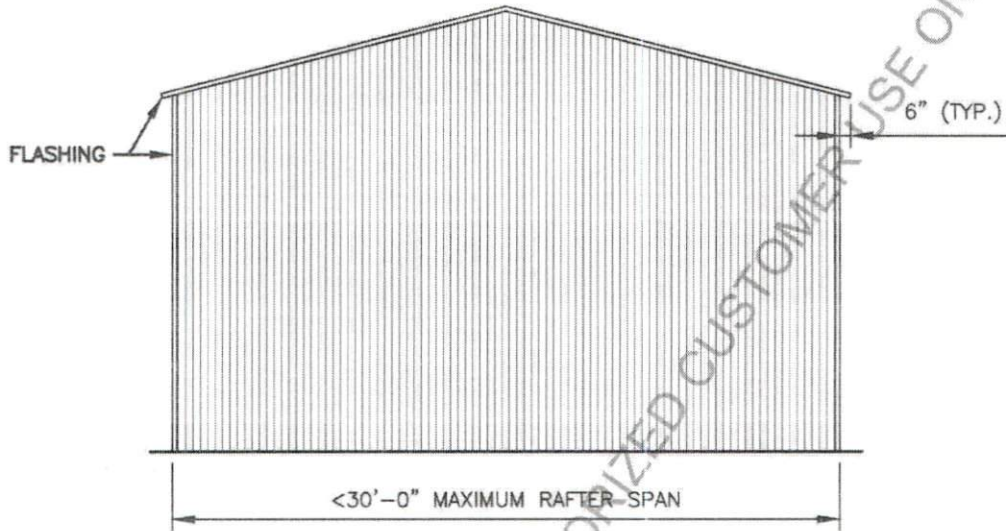
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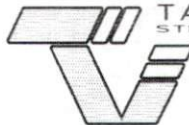
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VERTICAL ROOF / SIDING OPTION



TYPICAL END ELEVATION - VERTICAL ROOF / SIDING



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S15

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