



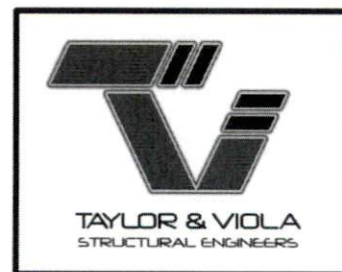
ENCLOSED GABLE END BUILDING

MAXIMUM 30'-0" WIDE X 16'-0" EAVE HEIGHT WITH BOX FRAME / (UP TO) 145 M.P.H. WIND ZONE - 30 P.S.F. SNOW LOAD

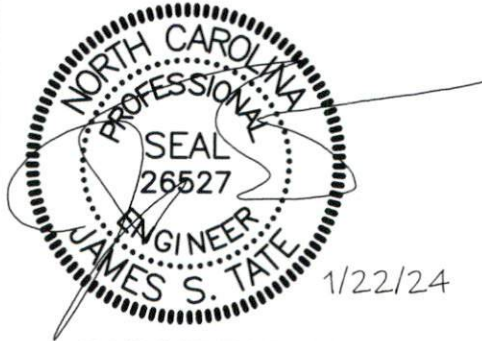
FOR:

5 STAR METAL BUILDINGS
2425 OLD HIGHWAY 601
MT. AIRY, NORTH CAROLINA
TELE: 844-308-9705

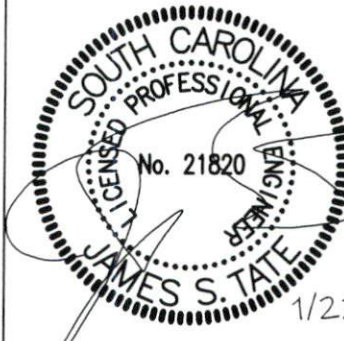
ISSUE DATE: JANUARY 22, 2024



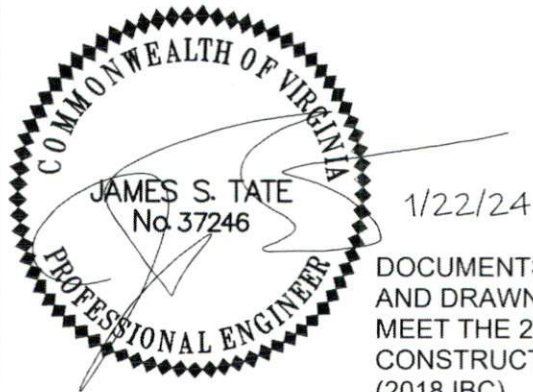
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DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 NC BUILDING CODE (2015 IBC)



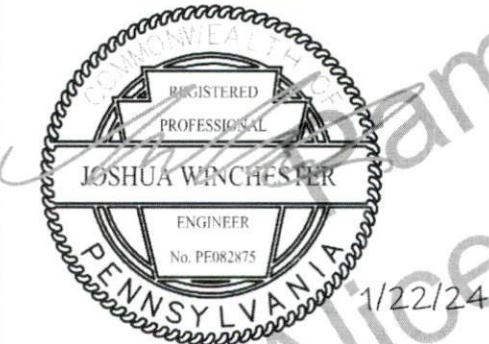
DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2021 SC BUILDING CODE (2021 IBC)



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



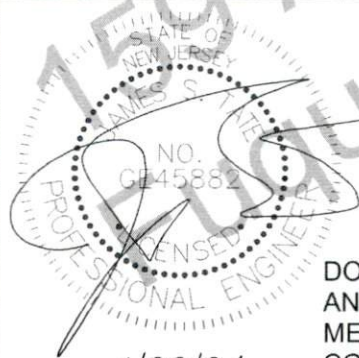
DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2012 IBC



DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 IBC



DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2020 BUILDING CODE OF NEW YORK STATE (2018 IBC)



DOCUMENTS DESIGNED AND DRAWN TO MEET THE 20210 BUILDING CODENEW JERSEY EDITION (2021 IBC)



DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 IBC



5 STAR METAL BUILDINGS

2425 OLD HIGHWAY 601 MOUNT AIRY, NORTH CAROLINA 27030 TELE: 844-308-9705

DRAWN BY: BKS

PROJECT NO: 23-500

DATE: 2024.01.22

SHEET NO: S1

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



1/22/24

DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 IBC



1/22/24

DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2021 BUILDING CODE OF ALABAMA (2021 IBC)



1/22/24

DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 IBC

Pam Tatum
159 Alice Holleman Lane
Fuquay Varina NC 27526



5 STAR
METAL BUILDINGS

2425 OLD HIGHWAY 601
MOUNT AIRY, NORTH CAROLINA 27030
TELE: 844-308-9705

DRAWN BY:
BKS

PROJECT NO:
22-500

DATE:
2024.01.22

SHEET NO:
S1

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

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S1A	P.E. SEALS SHEET
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S3	GENERAL NOTES AND SPECIFICATIONS
S4	SIDE AND END ELEVATIONS
S5	TYPICAL RAFTER / COLUMN FRAME SECTIONS
S5A	TYPICAL RAFTER / COLUMN FRAME SECTIONS
S5B	TYPICAL RAFTER / COLUMN FRAME AND SIDE FRAMING SECTION
S6	COLUMN CONNECTION DETAILS (LACED COLUMN)
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S6B	COLUMN CONNECTION DETAILS (LACED COLUMN)
S6C	COLUMN CONNECTION DETAILS (DOUBLE AND SINGLE COLUMN)
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S7E	BASE RAIL ANCHORAGE
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S16B	VERTICAL ROOF / SIDING OPTION SIDE SECTION
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S17A	END WALL HEADER OPTIONS



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METAL BUILDINGS
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MOUNT AIRY, NORTH CAROLINA 27030
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DRAWN BY:
BKS

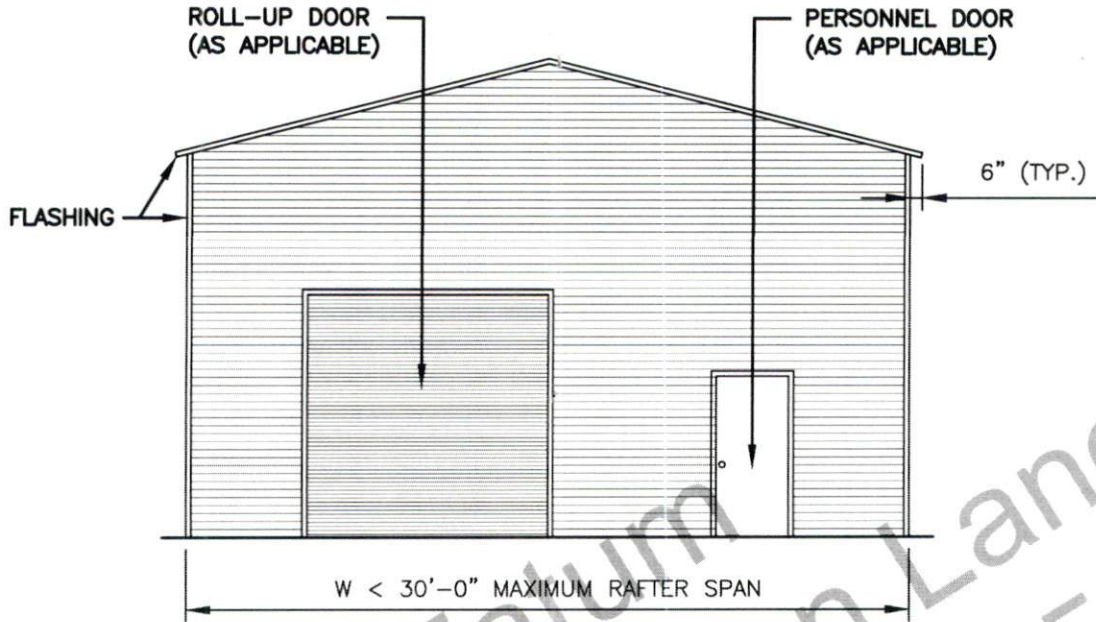
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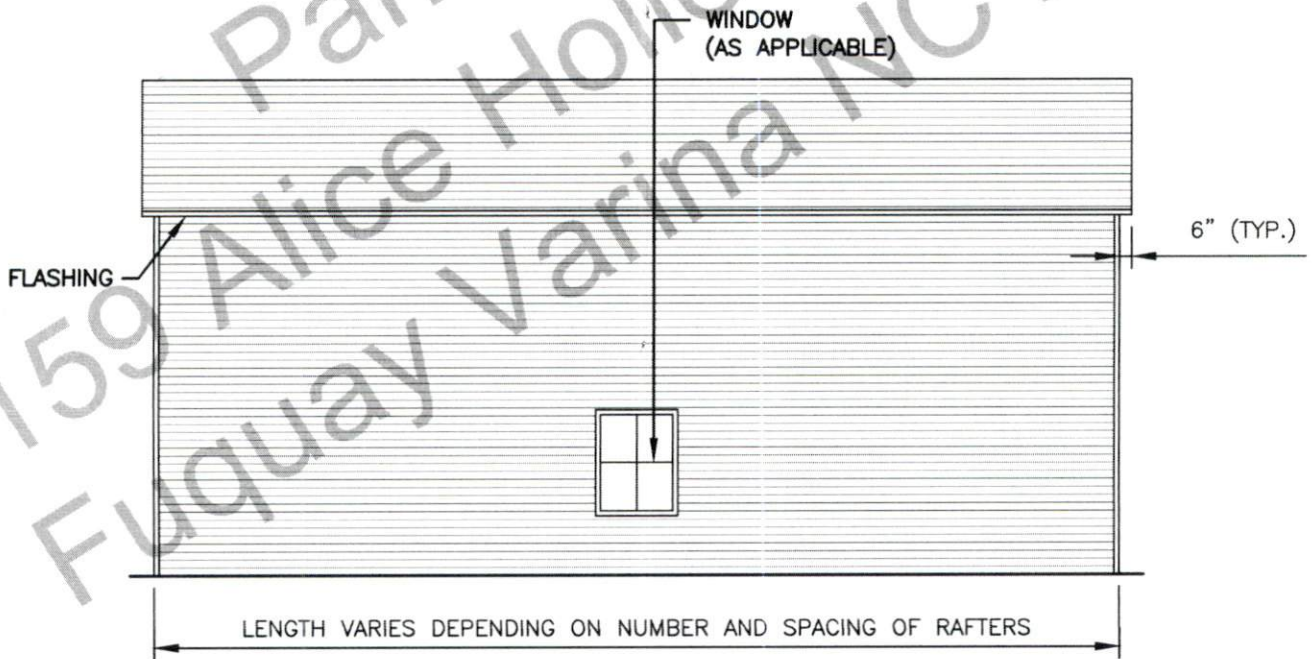
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S2

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

BOX EVE FRAME RAFTER STRUCTURE



TYPICAL END ELEVATION



TYPICAL SIDE ELEVATION



5 STAR
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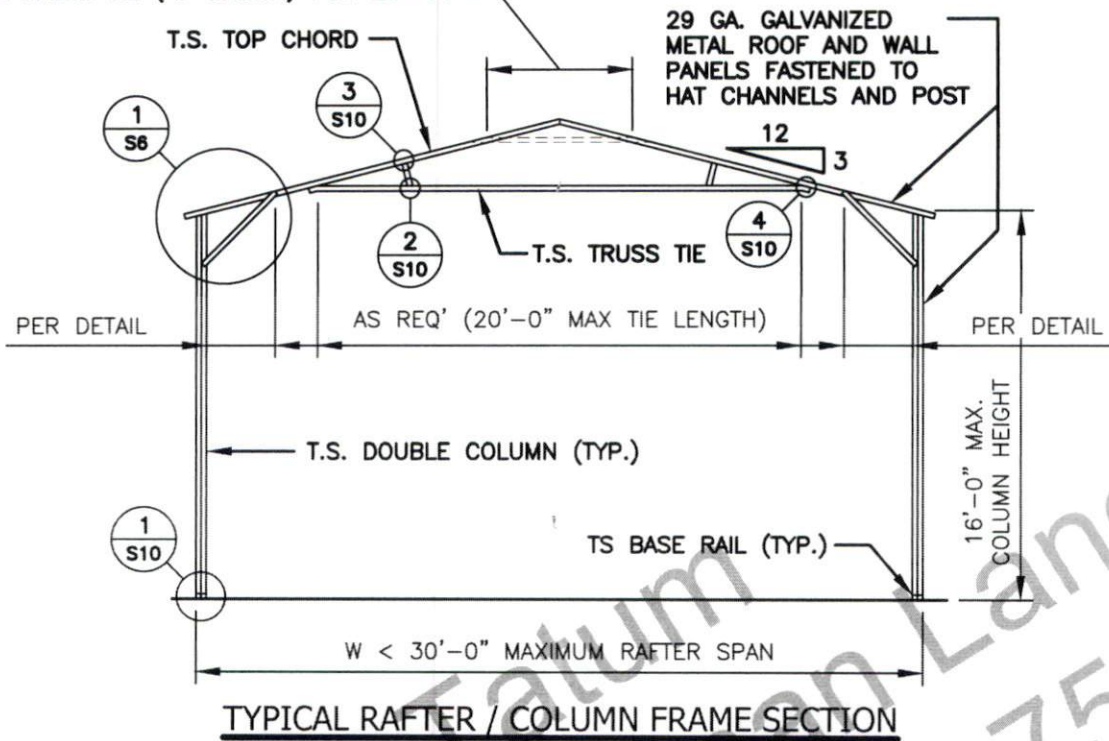
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23-501

DATE:
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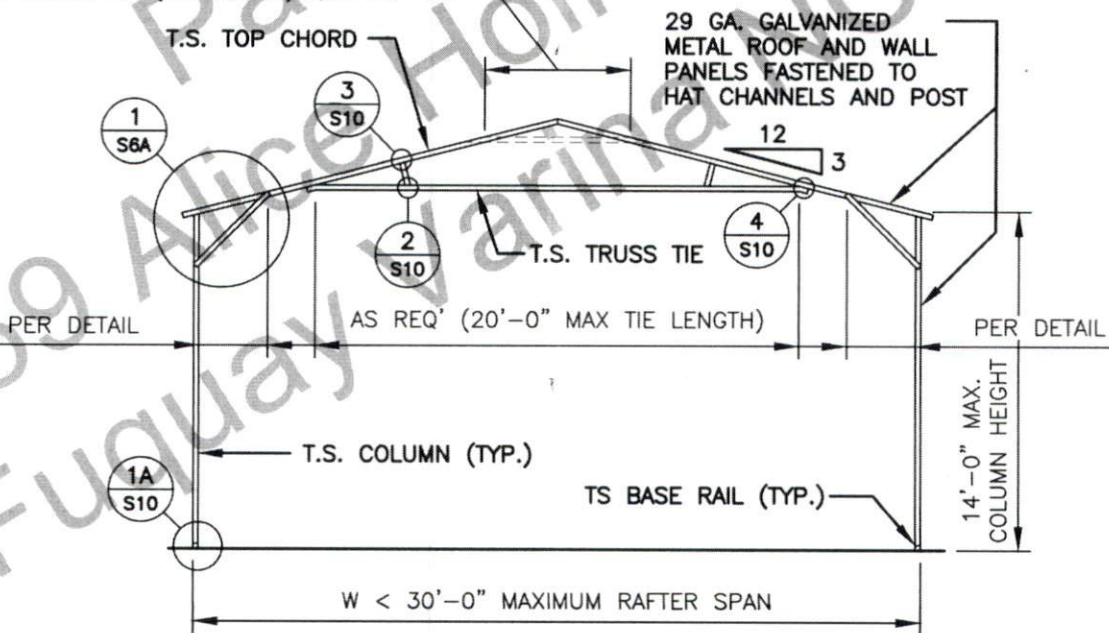
'U' BRACE TRUSS TIE - NOTE:
 6'-0" BRACE FOR 21'-24' BUILDING WIDTH
 20' TUBE TRUSS TIE (AS SHOWN) FOR 25'-30'



TYPICAL RAFTER / COLUMN FRAME SECTION

'U' BRACE TRUSS TIE - NOTE:
 6'-0" BRACE FOR 21'-24' BUILDING WIDTH
 20' TUBE TRUSS TIE (AS SHOWN) FOR 25'-30'

NOTE:
 H.S.S. 2-1/2"x2-1/2"x14ga. OR 2-1/4"x2-1/4"x14ga.
 MATERIAL MAY BE USED FOR TRUSS METAL.



TYPICAL RAFTER / COLUMN FRAME SECTION



5 STAR
 METAL BUILDINGS

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 MOUNT AIRY, NORTH CAROLINA 27030
 TELE: 844-308-9705

DRAWN BY:
 BKS

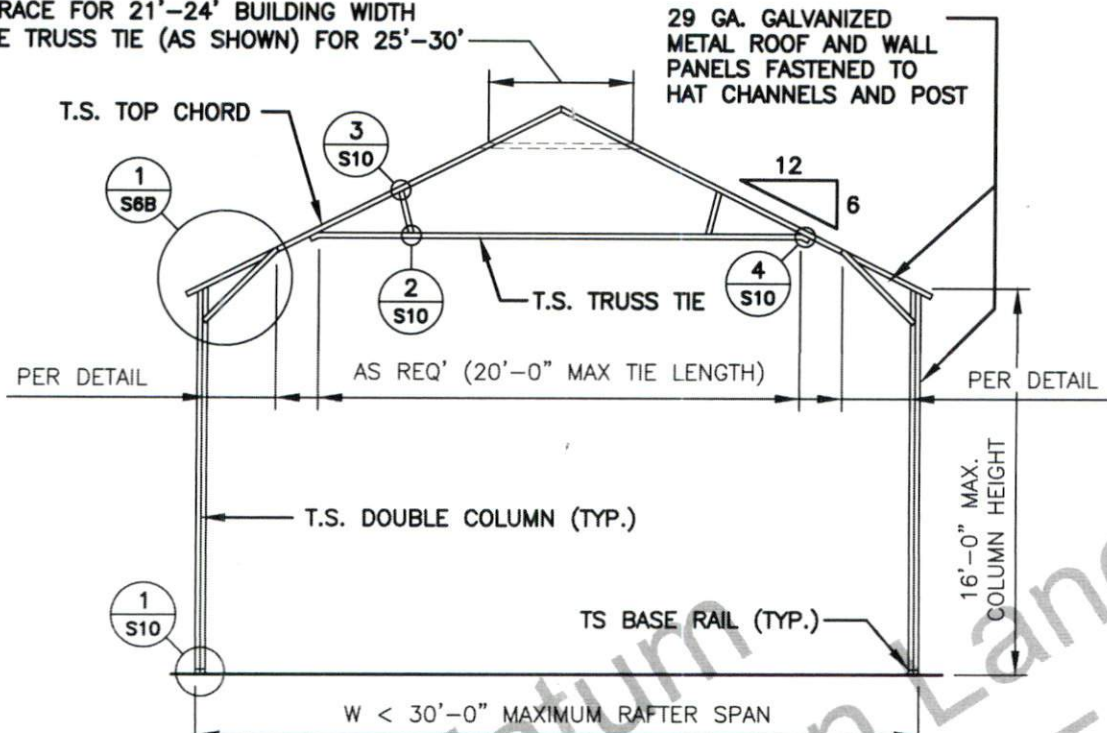
PROJECT NO:
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 2024.01.22

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

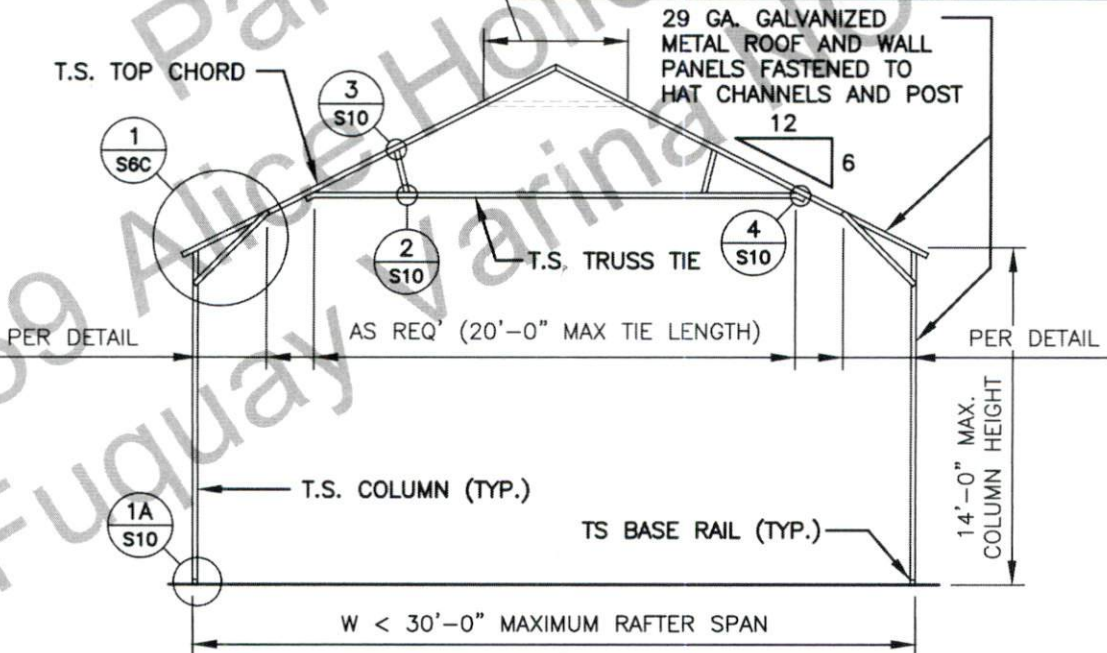
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NOTE:
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 MATERIAL MAY BE USED FOR TRUSS METAL.



TYPICAL RAFTER / COLUMN FRAME SECTION



5 STAR METAL BUILDINGS

2425 OLD HIGHWAY 601
 MOUNT AIRY, NORTH CAROLINA 27030
 TELE: 844-308-9705

DRAWN BY:
 BKS

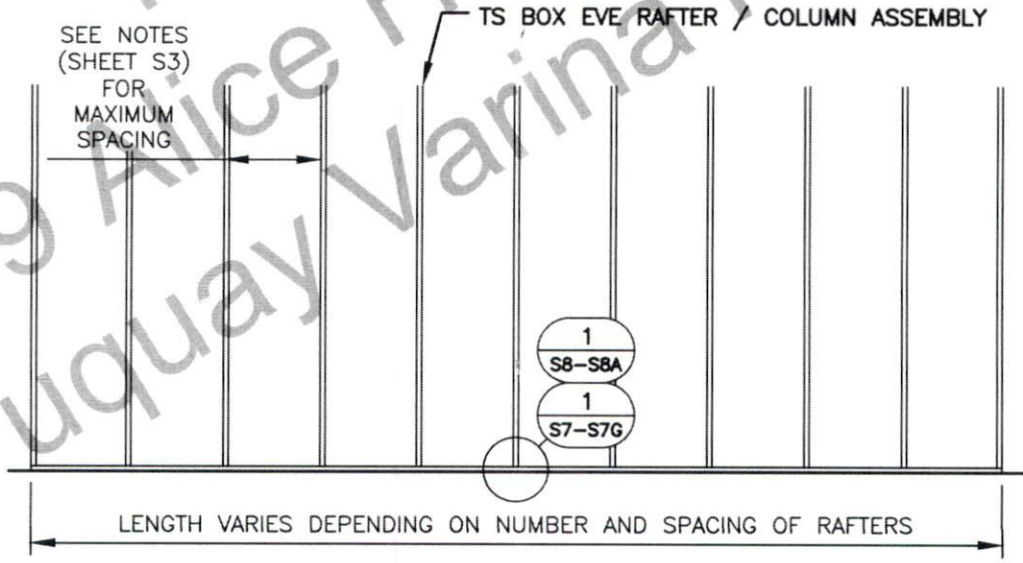
PROJECT NO:
 23-501

DATE:
 2024.01.22

SHEET NO:
S5A

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

NOTE:
 H.S.S. 2-1/2"x2-1/2"x14ga. OR
 2-1/4"x2-1/4"x14ga. MATERIAL
 MAY BE USED FOR TRUSS METAL.



TYPICAL RAFTER / COLUMN SIDE FRAME SECTION



5 STAR
 METAL BUILDINGS
 2425 OLD HIGHWAY 601
 MOUNT AIRY, NORTH CAROLINA 27030
 TELE: 844-308-9705

DRAWN BY: BKS	PROJECT NO: 23-501
DATE: 2024.01.22	SHEET NO: S58

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

CONNECTOR SLEEVE TO BOTTOM CHORD (TYP.)

T.S. TOP CHORD

TYP. $\frac{3}{16}$ $\frac{3}{16}$

3 12

SECURE WITH (2) #12-14x3/4" S.D.F.'S (EACH END)

18ga. U-CHANNEL KNEE BRACE FASTENED TO RAFTER AND COLUMN

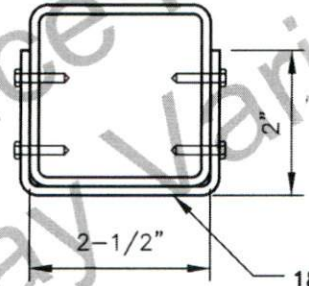
TYP. $\frac{3}{16}$ $\frac{3}{16}$ 6" \odot 24"

MIN. 6" LONG, CONNECTOR SLEEVE MINIMUM 14ga. SECURE COLUMN TO SLEEVE WITH (4) #12-14x3/4" S.D.F.'S

T.S. DOUBLE COLUMN

1 BOX EAVE / CORNER POST CONNECTION DETAIL FOR HEIGHTS 14'-1" < TO <16'-0"

S6 SCALE: 3/4" = 1'-0"



BRACE SECTION

18ga. U-CHANNEL BRACE FASTENED TO THE COLUMN AND BOTTOM CHORD, WITH #12-14x3/4" S.D.F.'S AT EACH END AS SHOWN IN ELEVATION.

TAYLOR & VIOLA
STRUCTURAL ENGINEERS
P.O.B. 2616 HICKORY NORTH CAROLINA
TELE: 828-328-6331 FAX: 828-322-1801
WWW.TAYLORVIOLA.COM

5 STAR METAL BUILDINGS

2425 OLD HIGHWAY 601
MOUNT AIRY, NORTH CAROLINA 27030
TELE: 844-308-9705

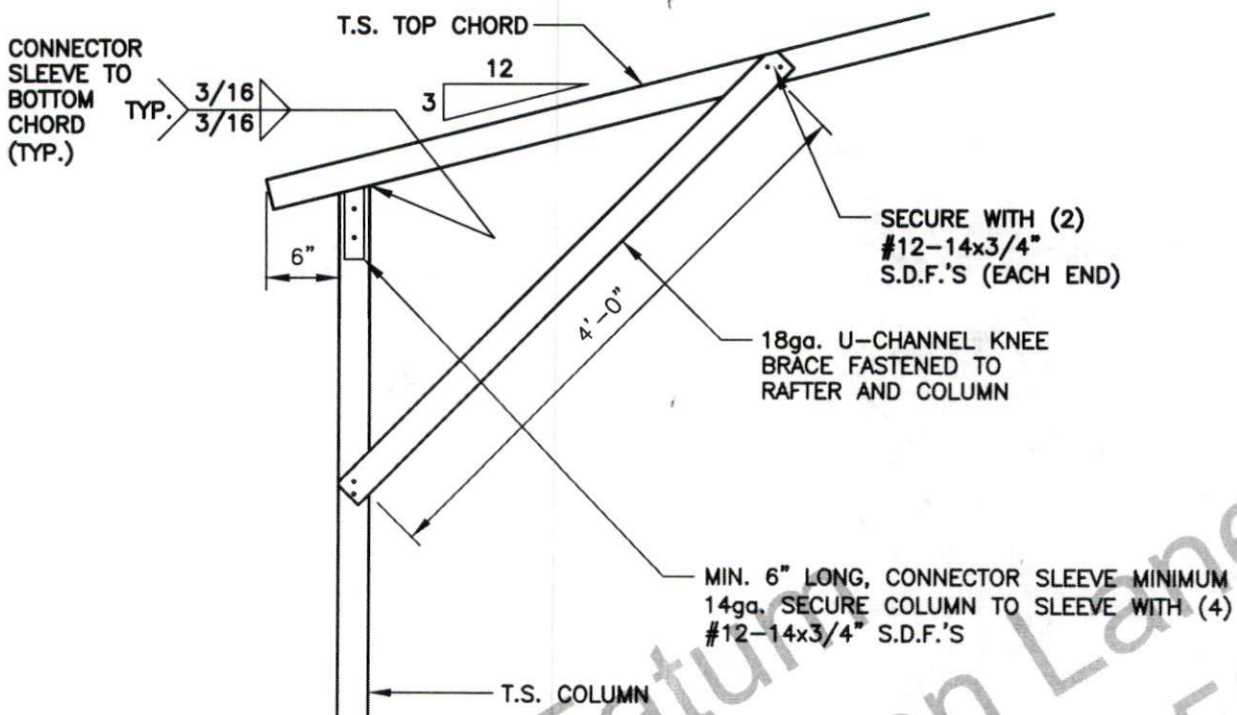
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BKS

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2024.01.22

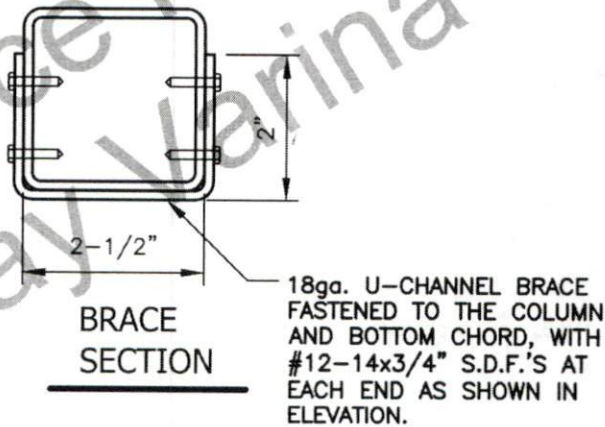
SHEET NO:
S6

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



1 BOX EAVE / CORNER POST CONNECTION DETAIL FOR HEIGHTS < 14'-0"

S6A SCALE: 3/4" = 1'-0"



5 STAR
METAL BUILDINGS

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TELE: 844-308-9705

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SHEET NO:
S6A

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CONNECTOR SLEEVE TO BOTTOM CHORD (TYP.)

TYP. $\frac{3}{16}$ / $\frac{3}{16}$

T.S. TOP CHORD

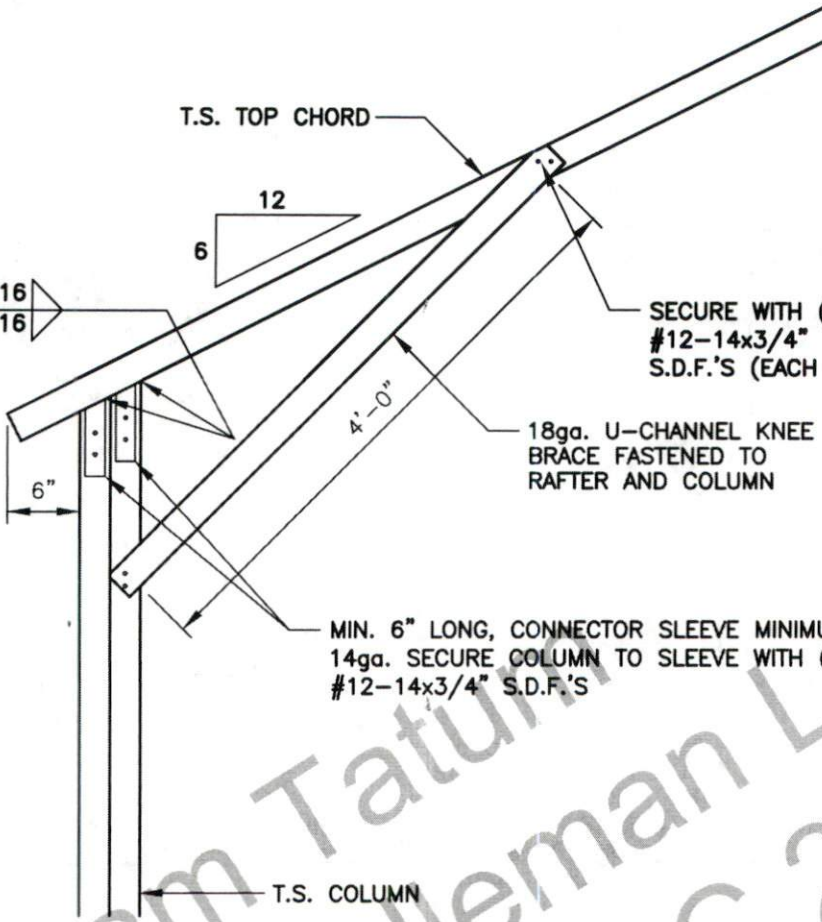
12
6

SECURE WITH (2) #12-14x3/4" S.D.F.'S (EACH END)

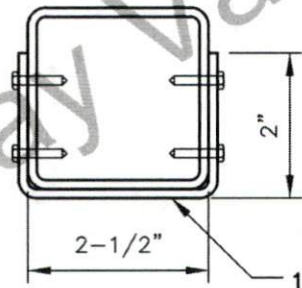
18ga. U-CHANNEL KNEE BRACE FASTENED TO RAFTER AND COLUMN

MIN. 6" LONG, CONNECTOR SLEEVE MINIMUM 14ga. SECURE COLUMN TO SLEEVE WITH (4) #12-14x3/4" S.D.F.'S

T.S. COLUMN



1 BOX EAVE / CORNER POST CONNECTION DETAIL FOR HEIGHTS 14'-1" < TO <16'-0"
S6C SCALE: 3/4" = 1'-0"



BRACE SECTION

18ga. U-CHANNEL BRACE FASTENED TO THE COLUMN AND BOTTOM CHORD, WITH #12-14x3/4" S.D.F.'S AT EACH END AS SHOWN IN ELEVATION.

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

5 STAR
METAL BUILDINGS
2425 OLD HIGHWAY 601
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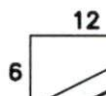
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DATE: 2024.01.22	SHEET NO: S88

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

CONNECTOR SLEEVE TO BOTTOM CHORD (TYP.)

TYP. $\frac{3}{16}$ / $\frac{3}{16}$

T.S. TOP CHORD



SECURE WITH (2) #12-14x3/4" S.D.F.'S (EACH END)

18ga. U-CHANNEL KNEE BRACE FASTENED TO RAFTER AND COLUMN

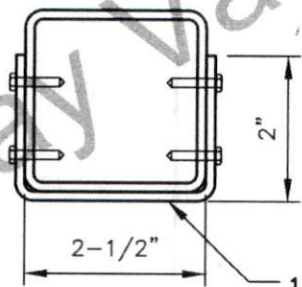
MIN. 6" LONG, CONNECTOR SLEEVE MINIMUM 14ga. SECURE COLUMN TO SLEEVE WITH (4) #12-14x3/4" S.D.F.'S

T.S. COLUMN

1
S6C

BOX EAVE / CORNER POST CONNECTION DETAIL FOR HEIGHTS < 14'-0"

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



BRACE SECTION

18ga. U-CHANNEL BRACE FASTENED TO THE COLUMN AND BOTTOM CHORD, WITH #12-14x3/4" S.D.F.'S AT EACH END AS SHOWN IN ELEVATION.

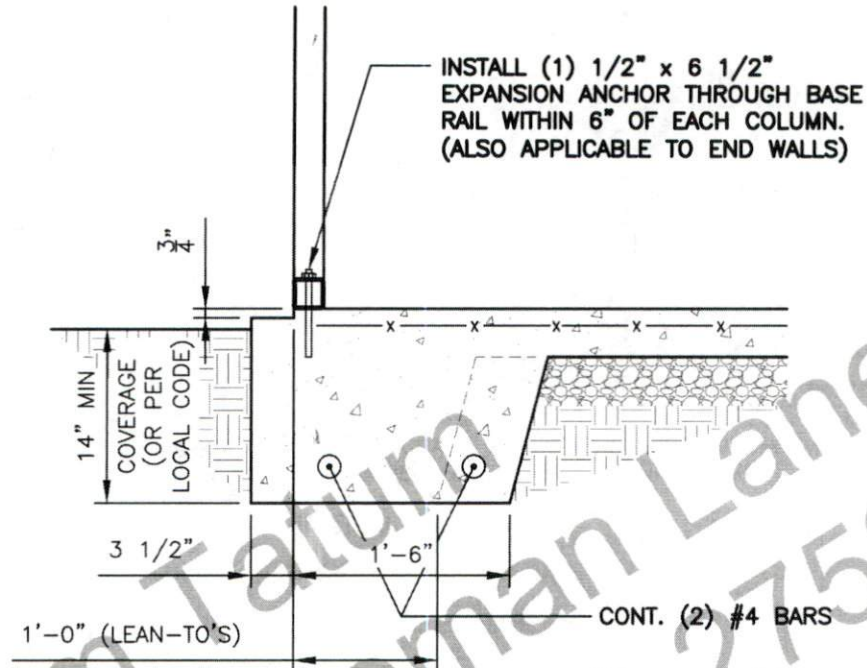
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5 STAR
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2425 OLD HIGHWAY 601
MOUNT AIRY, NORTH CAROLINA 27030
TELE: 844-308-9705

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CONCRETE BASE RAIL ANCHORAGE



1
S7

BASE RAIL ANCHORAGE DETAIL

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

GENERAL NOTES:

ALL CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 2,000 P.S.F.

CONCRETE:

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 P.S.I. 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.



5 STAR
METAL BUILDINGS

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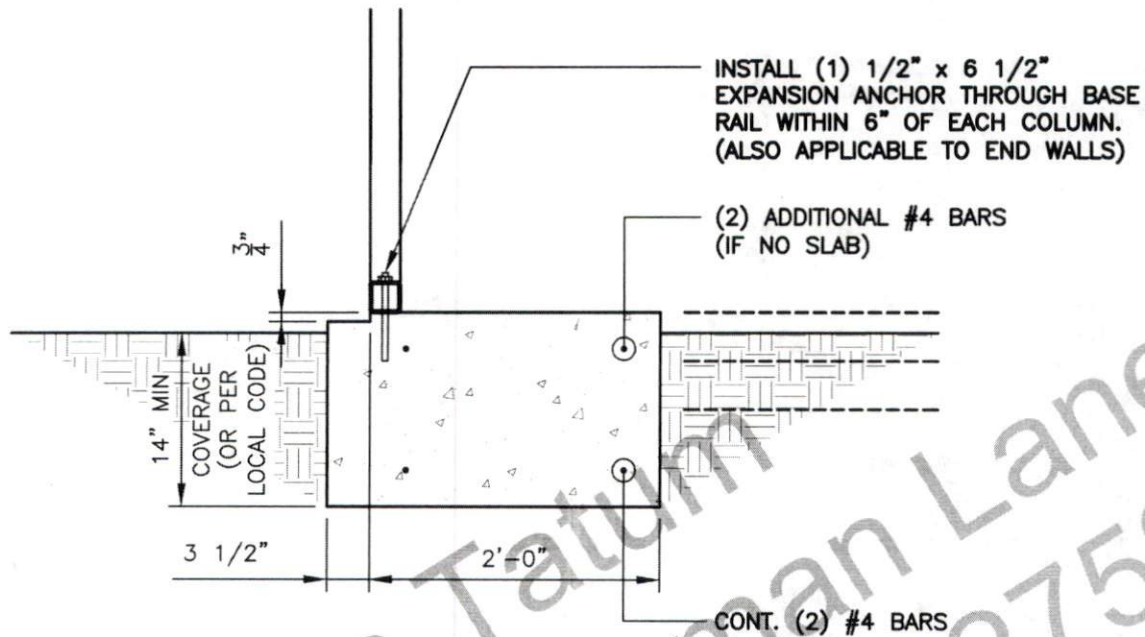
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23-501

DATE:
2024.01.22

SHEET NO:
S7

CONCRETE BASE RAIL ANCHORAGE (NO SLAB)



1
S7A
BASE RAIL ANCHORAGE DETAIL
 SCALE: 3/4" = 1'-0"

GENERAL NOTES:

ALL CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 2,000 P.S.F.

CONCRETE:

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 P.S.I. AT 28 DAYS.

COVER OVER REINFORCING STEEL:

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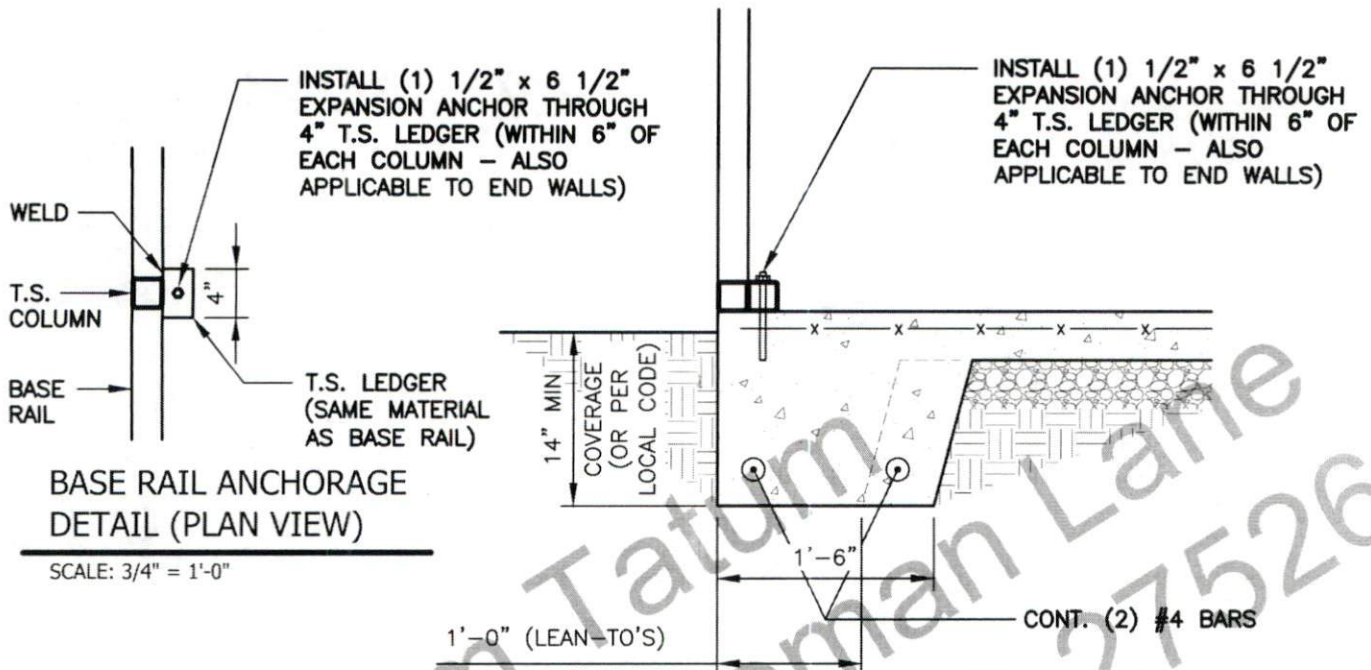
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 23-501

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 2024.01.22

SHEET NO:
S7A

CONCRETE BASE RAIL ANCHORAGE



1
S7B
BASE RAIL ANCHORAGE DETAIL
 SCALE: 3/4" = 1'-0"

GENERAL NOTES:

ALL CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 2,000 P.S.F.

CONCRETE:

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3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.



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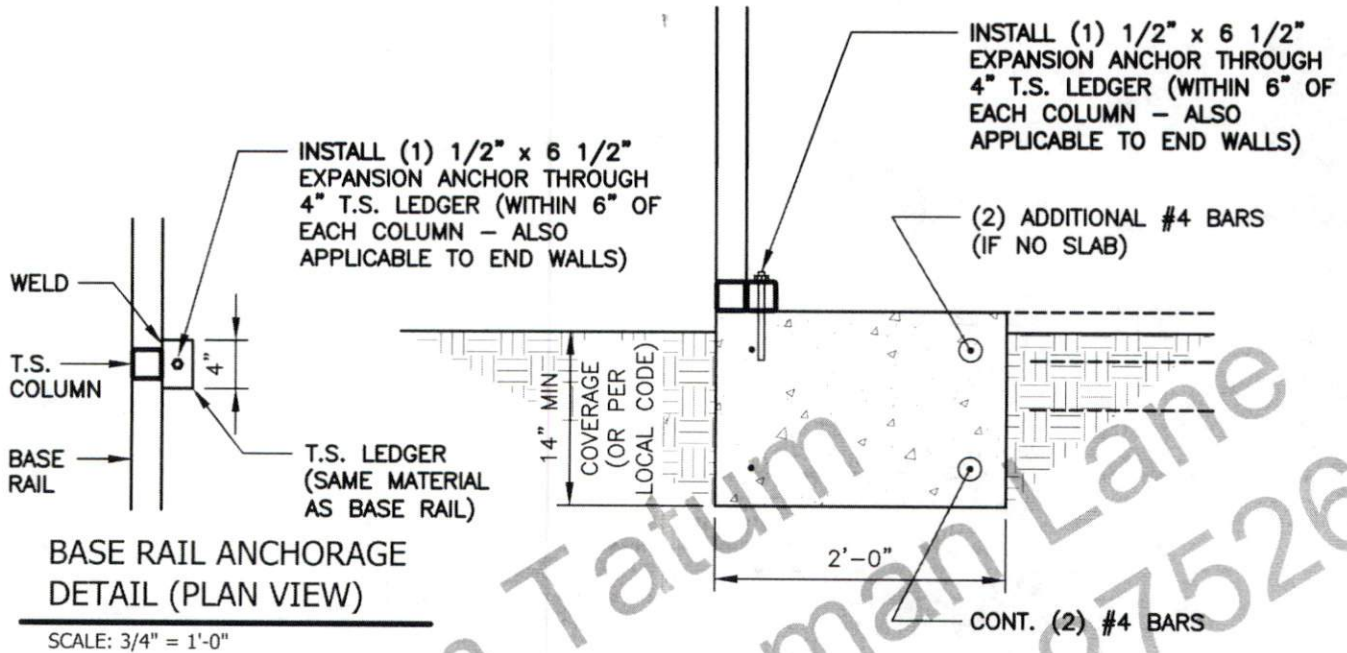
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SHEET NO:
S7B

CONCRETE BASE RAIL ANCHORAGE (NO SLAB)



1
S7C
BASE RAIL ANCHORAGE DETAIL
 SCALE: 3/4" = 1'-0"

GENERAL NOTES:

ALL CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 2,000 P.S.F.

CONCRETE:

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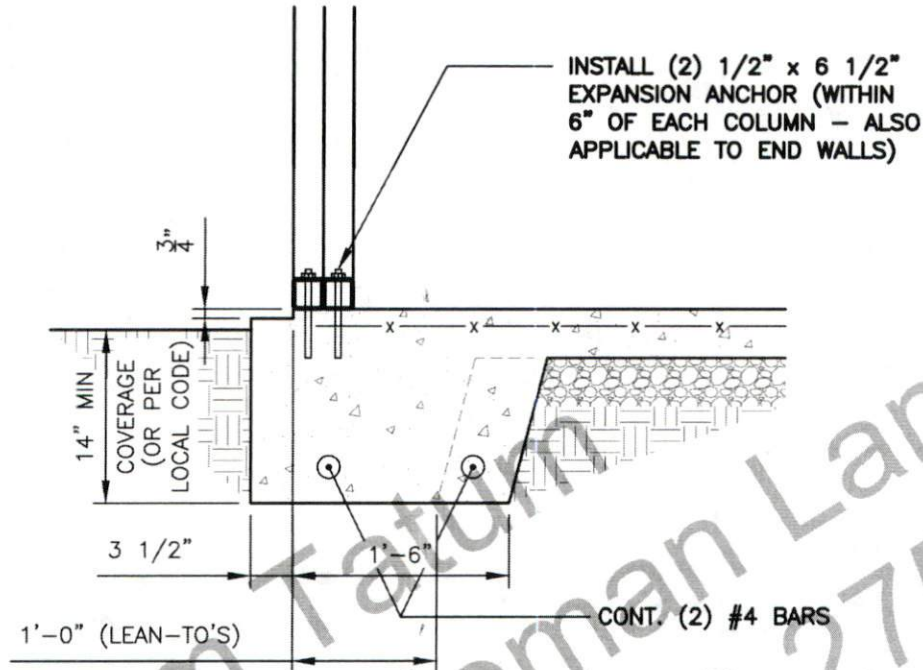
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SHEET NO:
S7C

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

CONCRETE BASE RAIL ANCHORAGE



1
S7D
BASE RAIL ANCHORAGE DETAIL
 SCALE: 3/4" = 1'-0"

GENERAL NOTES:

ALL CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 2,000 P.S.F.

CONCRETE:

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 P.S.I. 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 MAY 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.



5 STAR
METAL BUILDINGS
2425 OLD HIGHWAY 601
MOUNT AIRY, NORTH CAROLINA 27030
TELE: 844-308-9705

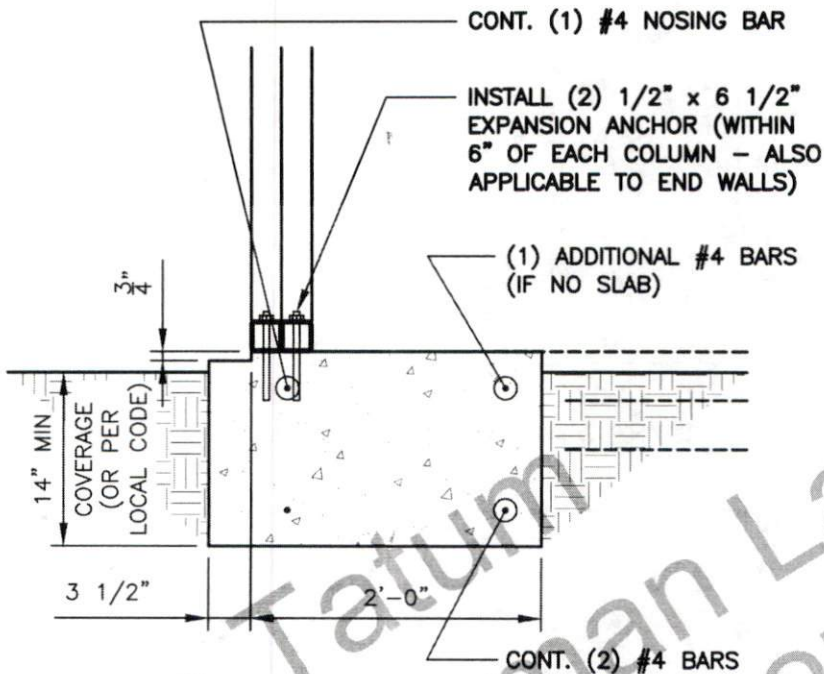
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2024.01.22

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S7D

CONCRETE BASE RAIL ANCHORAGE (NO SLAB)



1 BASE RAIL ANCHORAGE DETAIL
S7E SCALE: 3/4" = 1'-0"

GENERAL NOTES:

ALL CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 2,000 P.S.F.

CONCRETE:
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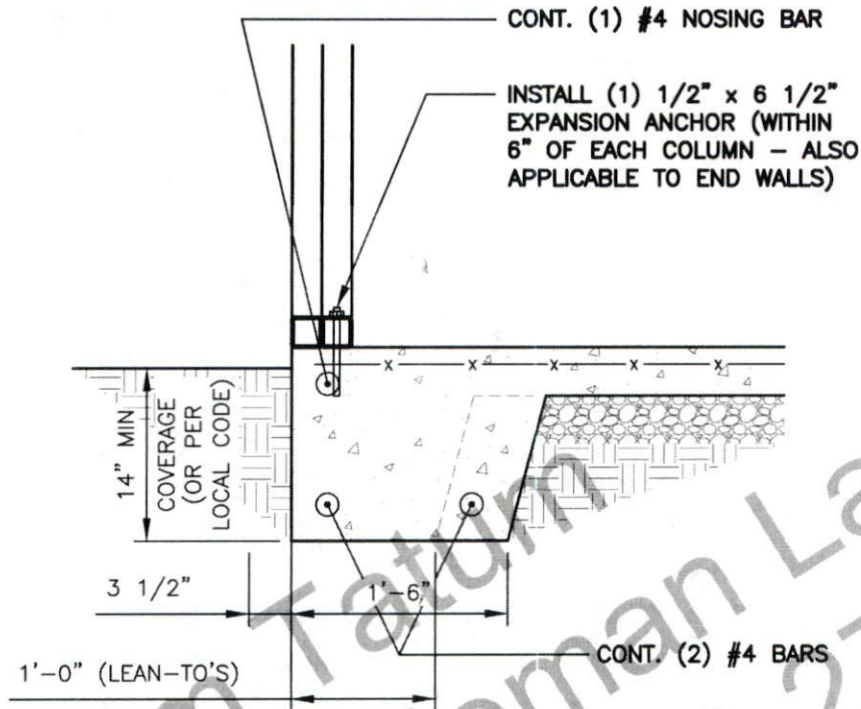
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S7E

CONCRETE BASE RAIL ANCHORAGE



1
S7F
BASE RAIL ANCHORAGE DETAIL
 SCALE: 3/4" = 1'-0"

GENERAL NOTES:

ALL CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 2,000 P.S.F.

CONCRETE:
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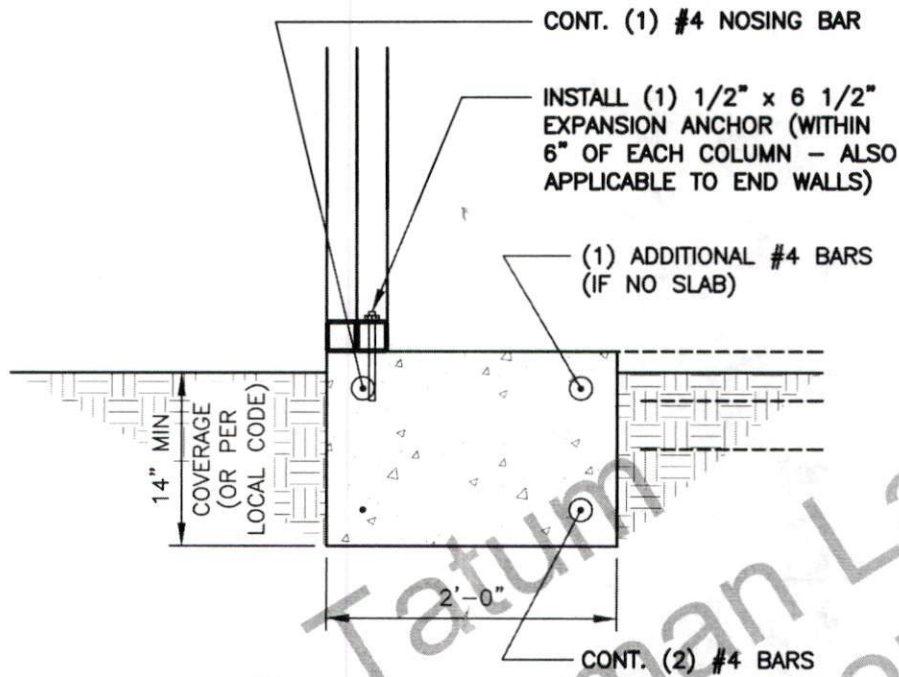
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S7F

CONCRETE BASE RAIL ANCHORAGE (NO SLAB)



1 BASE RAIL ANCHORAGE DETAIL
S7G SCALE: 3/4" = 1'-0"

GENERAL NOTES:

ALL CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 2,000 P.S.F.

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5 STAR
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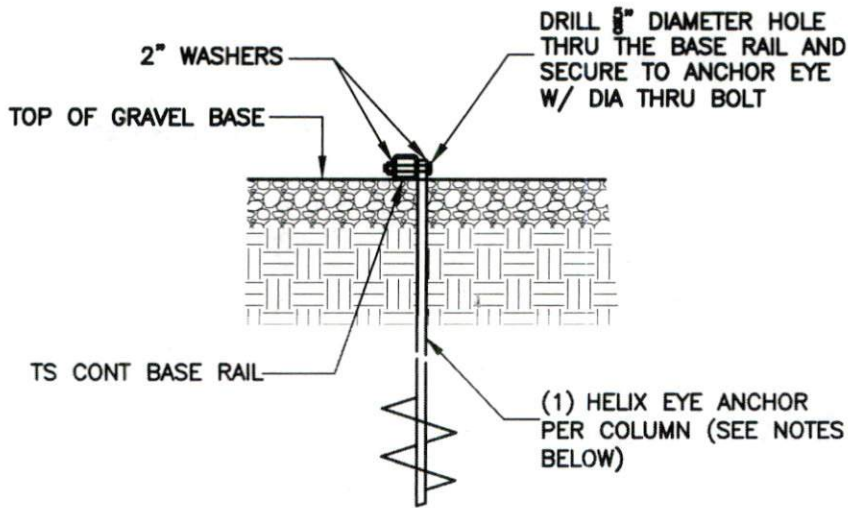
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S7G

SOIL NAIL BASE RAIL ANCHORAGE



1
S8
BASE RAIL ANCHORAGE DETAIL
 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 - ONE EACH END BASE RAIL AND 20'-0"oc MAX. WITH #4 REBAR AT 5'-0"oc BETWEEN.

FOR CORAL, USE MIN (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH 50" EMBEDMENT - ONE EACH END BASE RAIL AND 20'-0"oc MAX. WITH #4 REBAR AT 5'-0"oc BETWEEN.

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 - ONE EACH END BASE RAIL AND 20'-0"oc MAX. WITH #4 REBAR AT 5'-0"oc BETWEEN.

FOR LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS, USE MIN (2) 6" HELICES WITH MINIMUM 50" EMBEDMENT - ONE EACH END BASE RAIL AND 20'-0"oc MAX. WITH #4 REBAR AT 5'-0"oc BETWEEN.

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 - ONE EACH END BASE RAIL AND 20'-0"oc MAX. WITH #4 REBAR AT 5'-0"oc BETWEEN.

NOTE:

IN ALL CASES, IF FROST DEPTH EXCEEDS STATED DEPTH, ANCHOR SHOULD EXTEND A MIN. OF 12" BELOW FROST LINE.



5 STAR
METAL BUILDINGS

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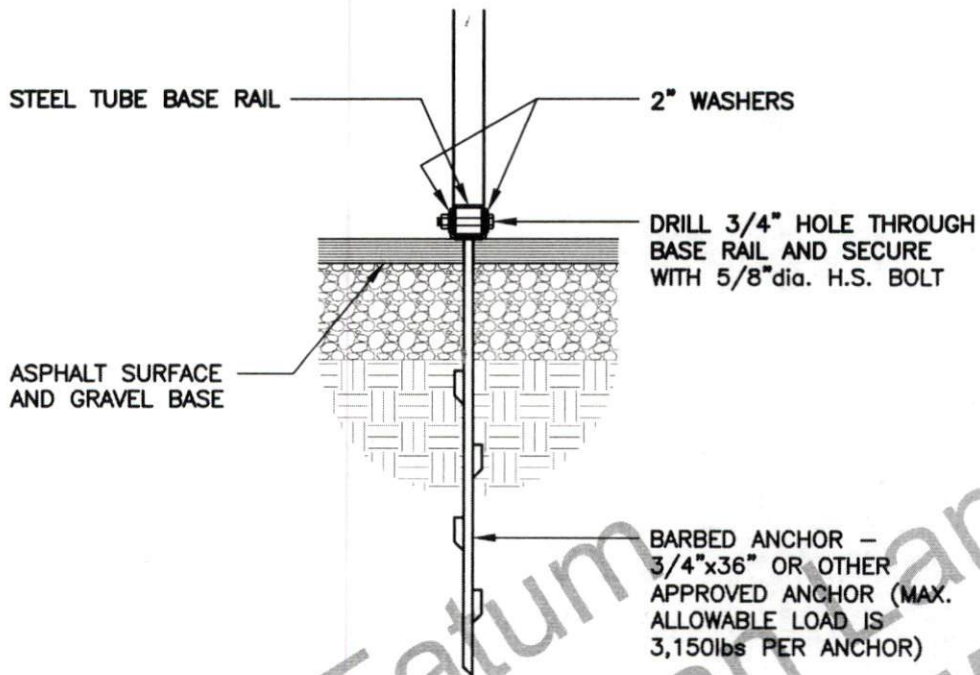
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ASPHALT ANCHOR BASE RAIL ANCHORAGE



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

Paul Tatum
 159 Alice Hollemann Lane
 Fuquay Varina NC 27526



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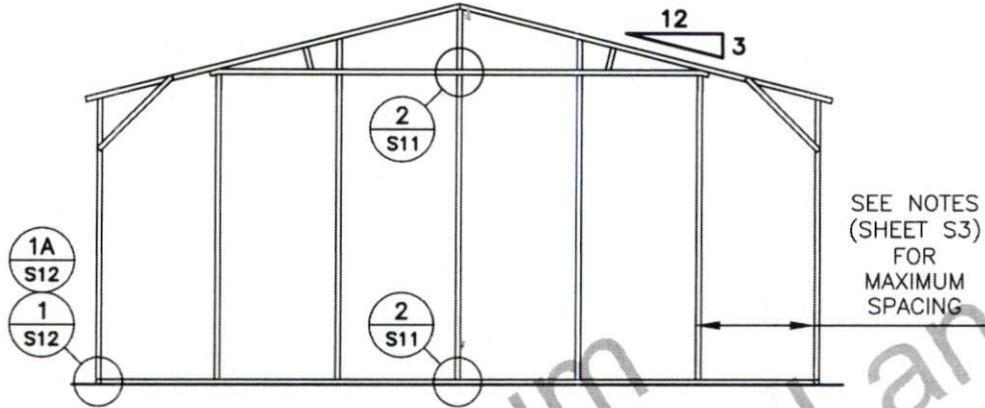
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SHEET NO:
S8A

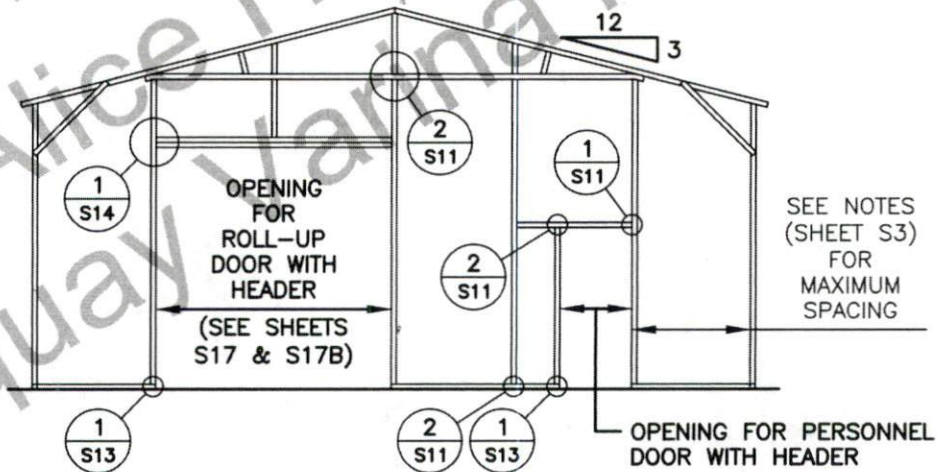
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BOX EVE RAFTER END WALL OPENINGS



TYPICAL BOX EVE RAFTER / END WALL COLUMN FRAME SECTION

NOTE:
 ROLL UP DOORS SHALL
 HAVE ONE JAMB EACH
 SIDE + ONE FRAME
 COLUMN BETWEEN OR SITE
 SPECIFIC SHALL BE REQ'D.



TYPICAL BOX EVE RAFTER END WALL OPENINGS FRAMING SECTION



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 METAL BUILDINGS**
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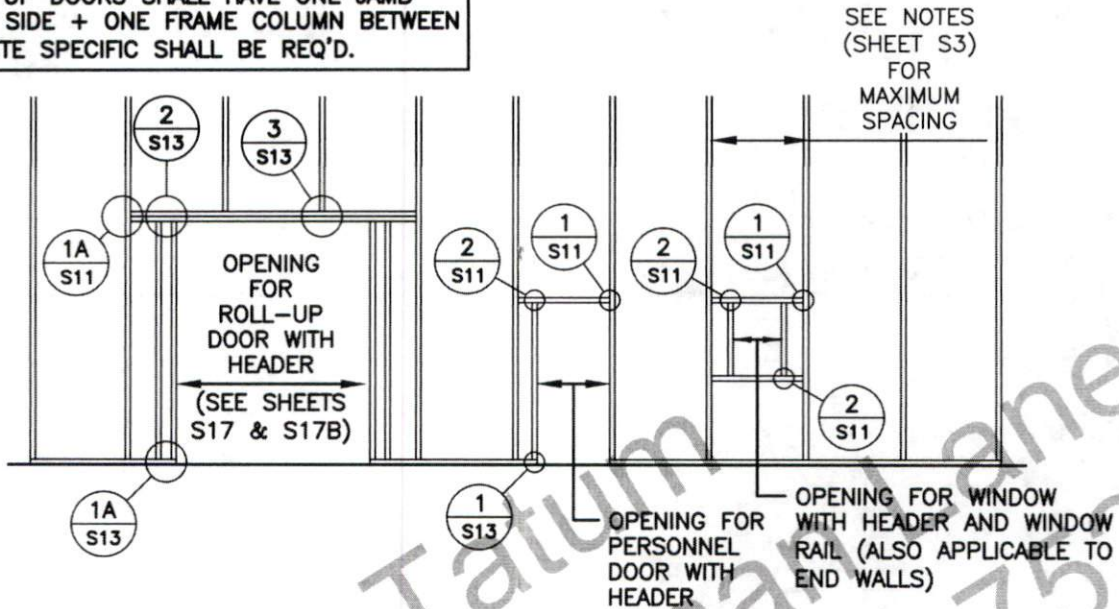
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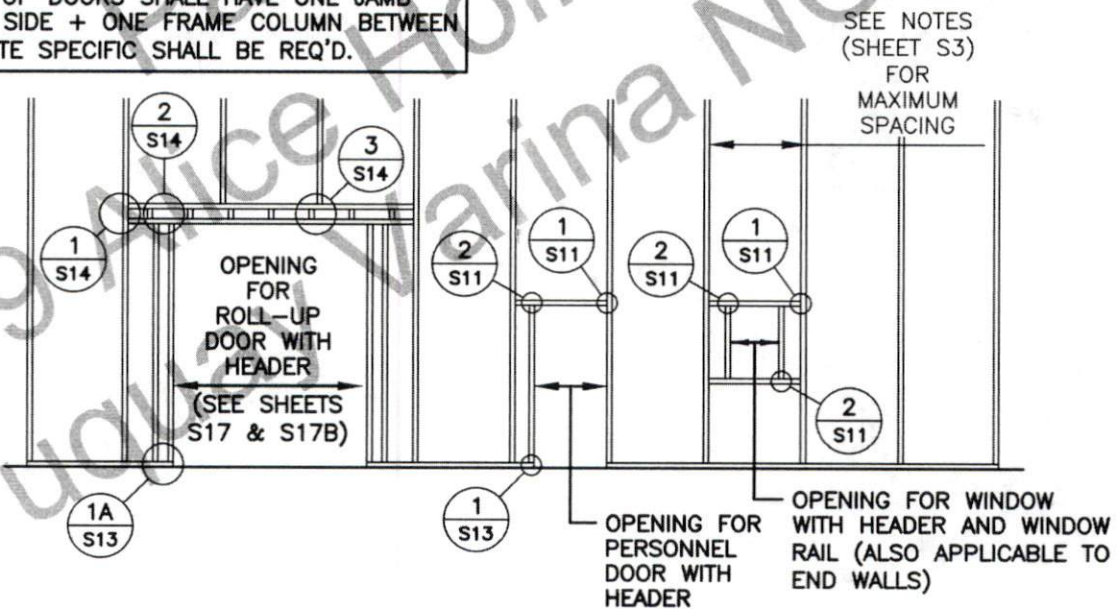
BOX EVE RAFTER END WALL AND SIDE WALL OPENINGS

NOTE:
 ROLL UP DOORS SHALL HAVE ONE JAMB
 EACH SIDE + ONE FRAME COLUMN BETWEEN
 OR SITE SPECIFIC SHALL BE REQ'D.



TYPICAL END WALL OPENING FRAMING SECTION

NOTE:
 ROLL UP DOORS SHALL HAVE ONE JAMB
 EACH SIDE + ONE FRAME COLUMN BETWEEN
 OR SITE SPECIFIC SHALL BE REQ'D.



TYPICAL SIDE WALL OPENING FRAMING SECTION



5 STAR
 METAL BUILDINGS

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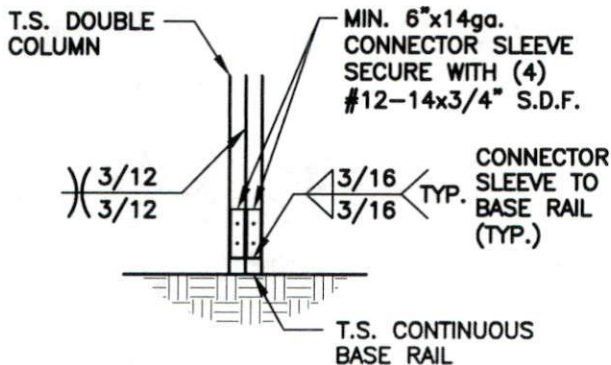
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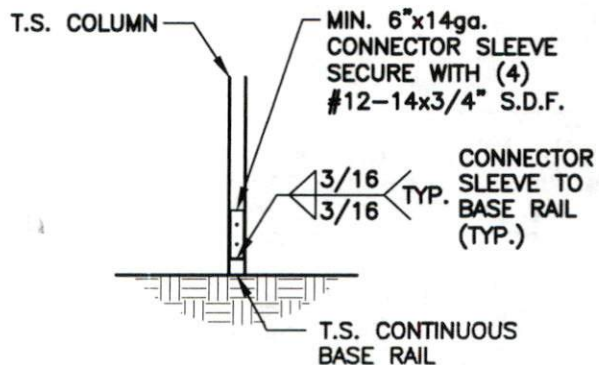
CONNECTION DETAILS



POST / BASE RAIL
CONNECTION DETAIL

1
S10

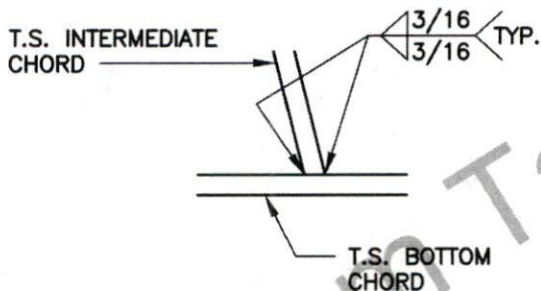
SCALE: 1/2" = 1'-0"



POST / BASE RAIL
CONNECTION DETAIL

1A
S10

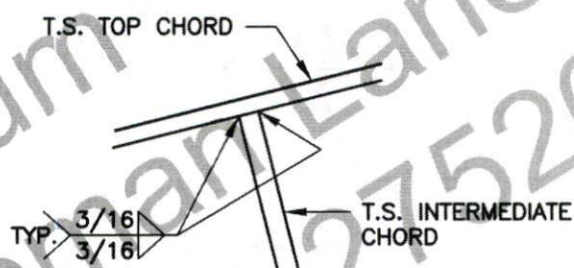
SCALE: 1/2" = 1'-0"



INTERMEDIATE CHORD
TO BOTTOM CHORD
CONNECTION DETAIL

2
S10

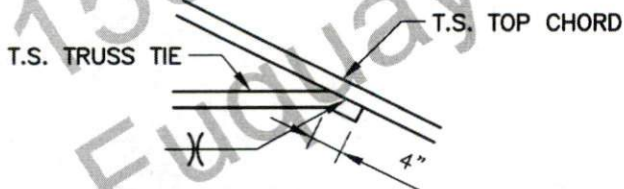
SCALE: 1/2" = 1'-0"



INTERMEDIATE CHORD TO TOP
CHORD CONNECTION DETAIL

3
S10

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



TRUSS TIE
CONNECTION DETAIL

4
S10

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



5 STAR
METAL BUILDINGS

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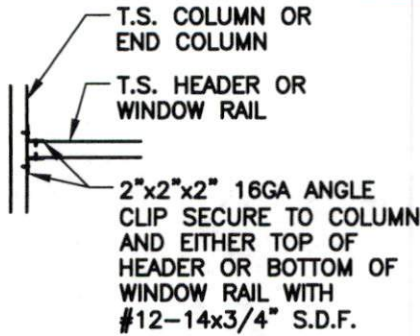
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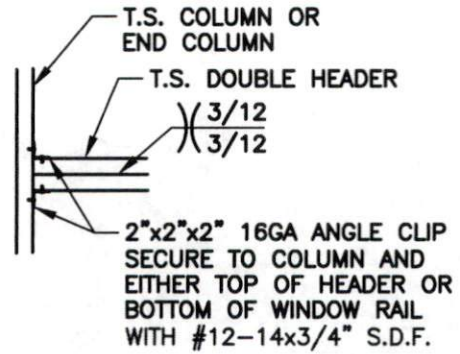
CONNECTION DETAILS



COLUMN OR WINDOW
RAIL / WALL GIRT TO POST
CONNECTION DETAIL

1
S11

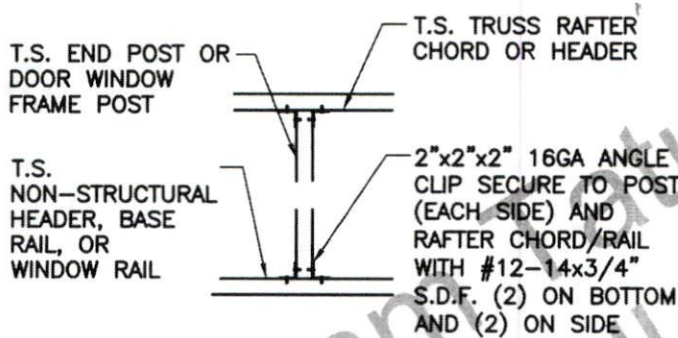
SCALE: 1/2" = 1'-0"



COLUMN / DOUBLE HEADER
CONNECTION DETAIL

1A
S11

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



DOOR OR WINDOW HEADER
RAIL TO POST CONNECTION
DETAIL

2
S11

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



5 STAR
METAL BUILDINGS

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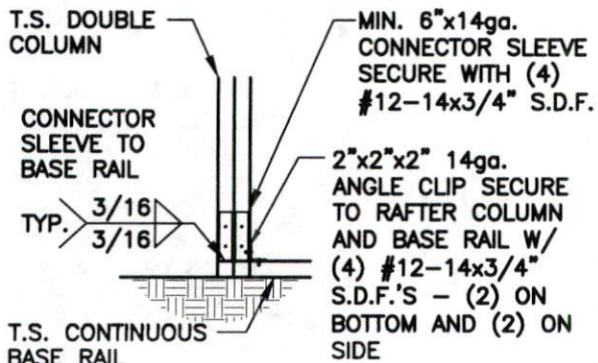
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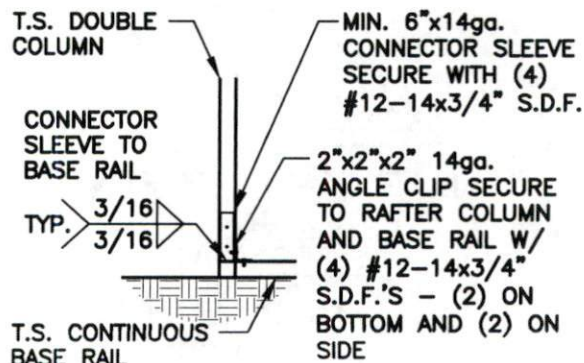
CONNECTION DETAILS



**END COLUMN / BASE RAIL
CONNECTION DETAIL**

1
S12

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



**END COLUMN / BASE RAIL
CONNECTION DETAIL**

1A
S12

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

Pam Tatum
159 Alice Holleman Lane
Fuquay Varina NC 27526



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**5 STAR
METAL BUILDINGS**

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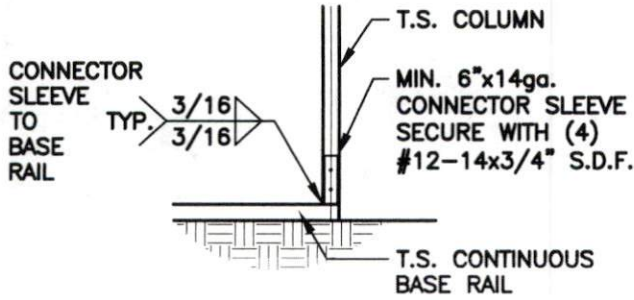
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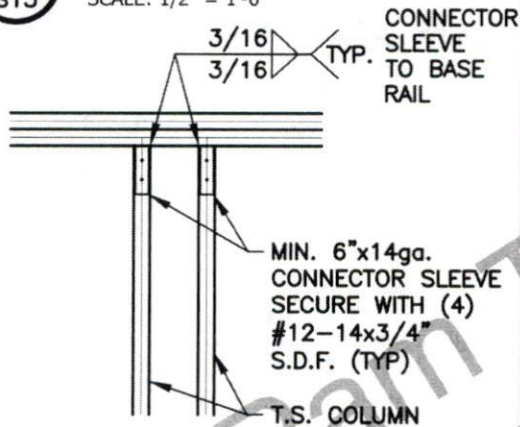
CONNECTION DETAILS



1
COLUMN / BASE RAIL CONNECTION DETAIL

S13

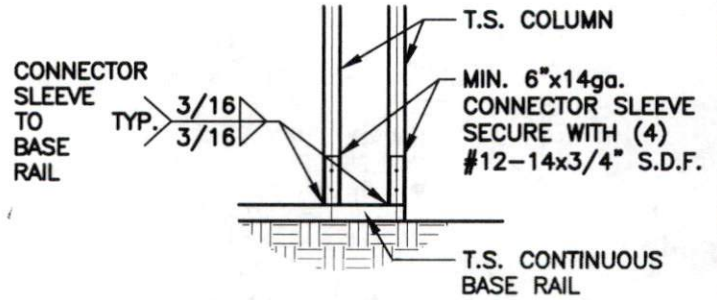
SCALE: 1/2" = 1'-0"



2
DOUBLE HEADER / COLUMN CONNECTION DETAIL

S13

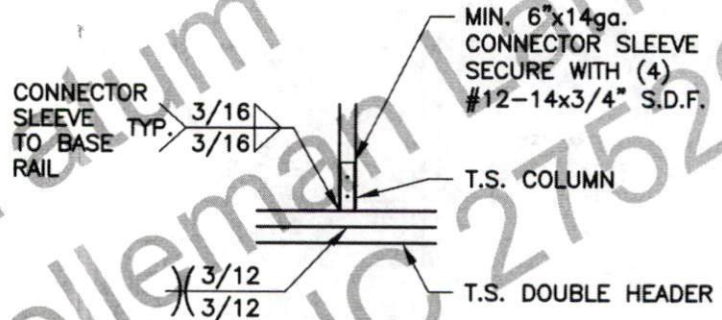
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1A
COLUMN / BASE RAIL CONNECTION DETAIL

S13

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



3
COLUMN / DOUBLE HEADER CONNECTION DETAIL

S13

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



5 STAR
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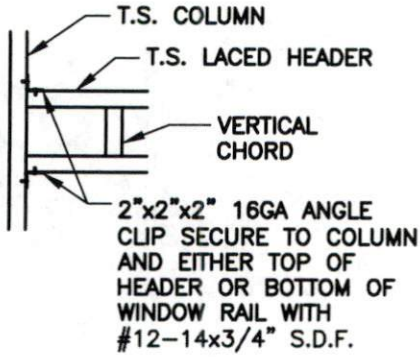
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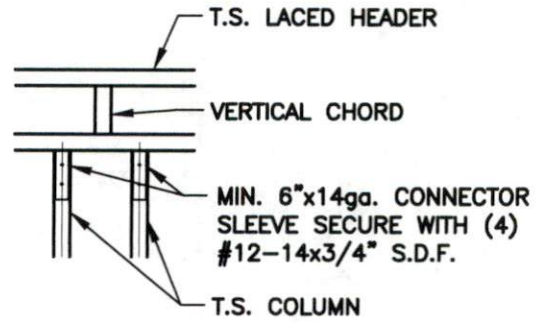
CONNECTION DETAILS



1
COLUMN / LACED HEADER CONNECTION DETAIL

S14

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

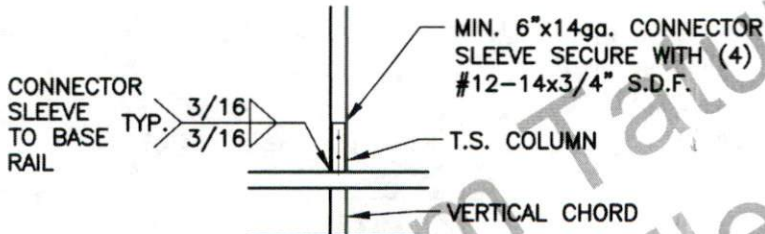


2
LACED HEADER / COLUMN CONNECTION DETAIL

S14

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

CONCRETE BASE RAIL ANCHORAGE



3
COLUMN / LACED HEADER CONNECTION DETAIL

S14

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



5 STAR
METAL BUILDINGS

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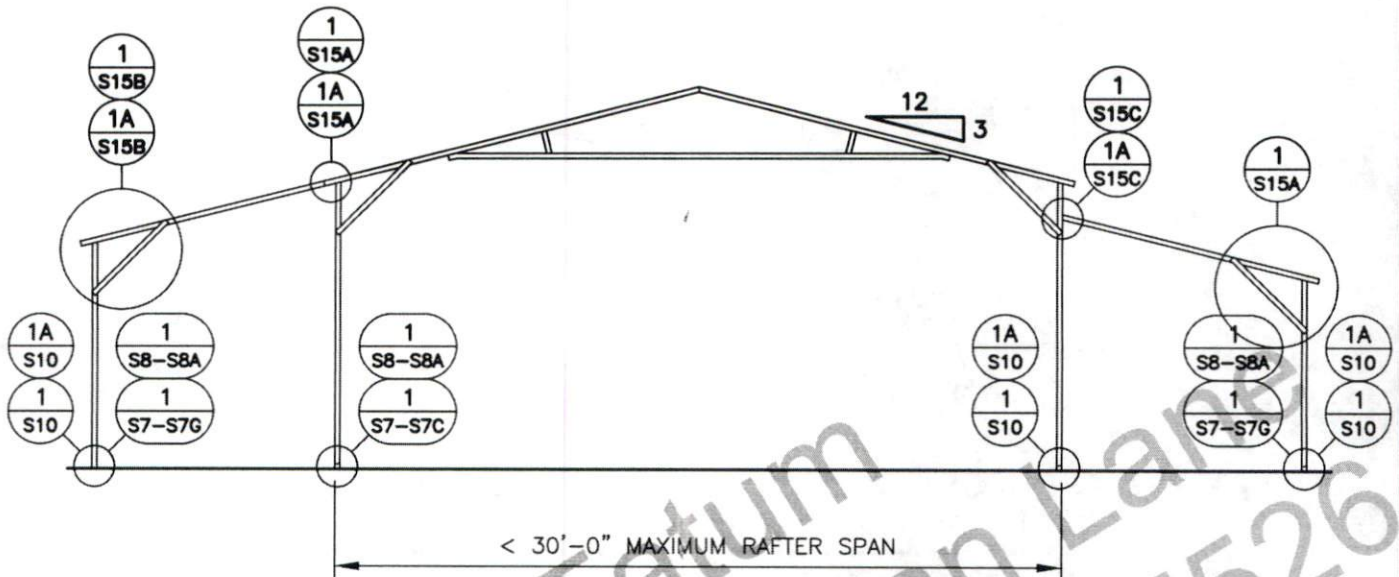
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BOX EVE RAFTER LEAN-TO OPTIONS



TYPICAL LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

MAXIMUM WIDTH OF SINGLE MEMBER ROOF EXTENSION AND LEAN-TO OPTION IS 12'-0"
 MAXIMUM WIDTH OF DOUBLE MEMBER ROOF EXTENSION AND LEAN-TO IS 15'-0"
 12'-0" MAX. LEAN-TO HEIGHT WITH SINGLE COLUMN
 16'-0" MAX. LEAN-TO HEIGHT WITH DOUBLE COLUMN

Patent Pending
 159 Alice Horton Lane
 Fuquay Varina NC 27526



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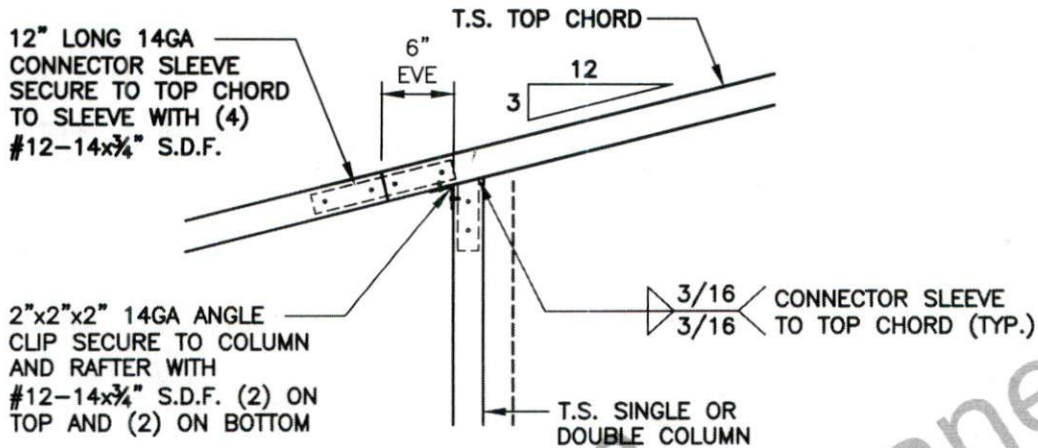
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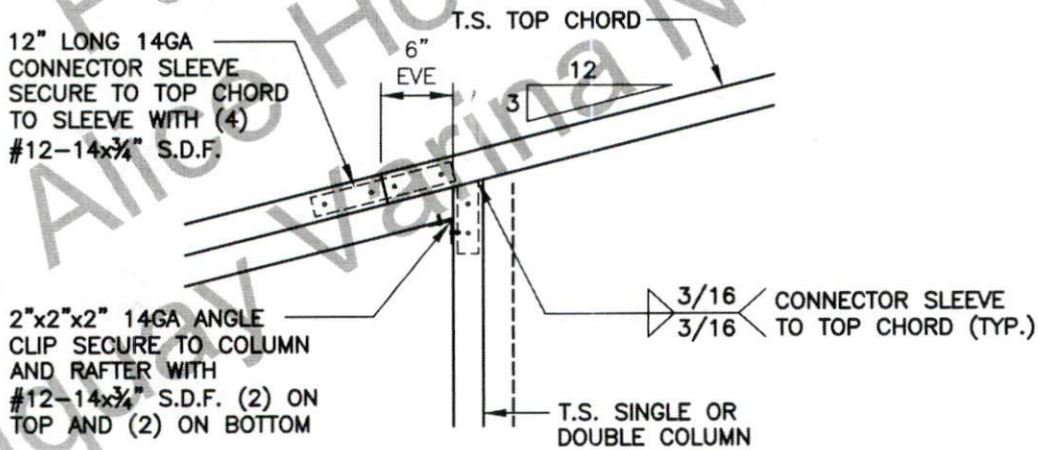
LEAN-TO CONNECTION DETAILS



ROOF EXTENSION RAFTER / CORNER POST
DETAIL FOR WIDTHS < 12'-0"

1
S15A

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



ROOF EXTENSION RAFTER / CORNER POST
DETAIL FOR WIDTHS < 15'-0"

1A
S15A

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



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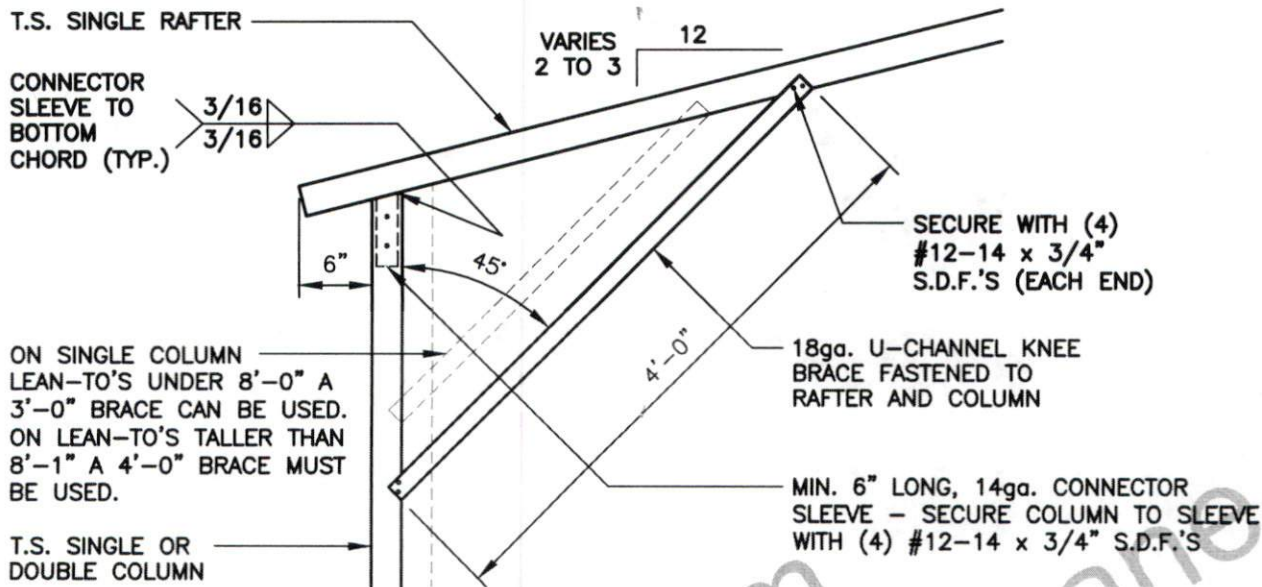
DRAWN BY:
BKS

PROJECT NO:
23-501

DATE:
2024.01.22

SHEET NO:
S15A

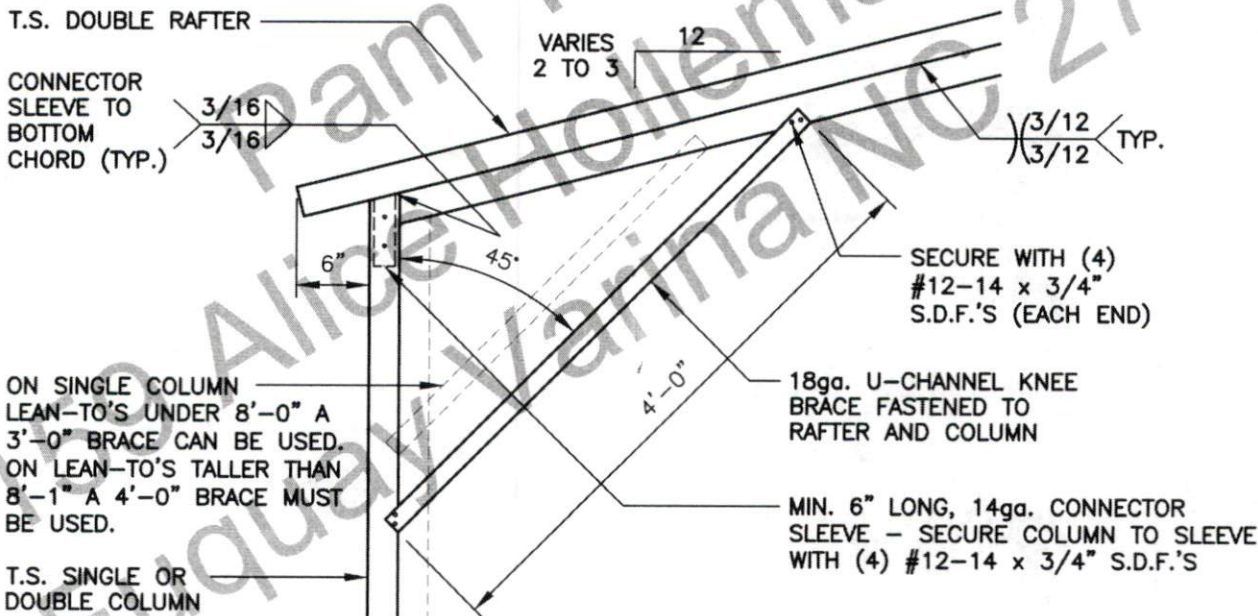
LEAN-TO CONNECTION DETAILS - SINGLE COLUMN



LEAN-TO SINGLE RAFTER / SINGLE COLUMN CONNECTION DETAIL

1
S15B

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



LEAN-TO DOUBLE RAFTER / SINGLE COLUMN CONNECTION DETAIL

1A
S15B

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



5 STAR
METAL BUILDINGS

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TELE: 844-308-9705

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23-501

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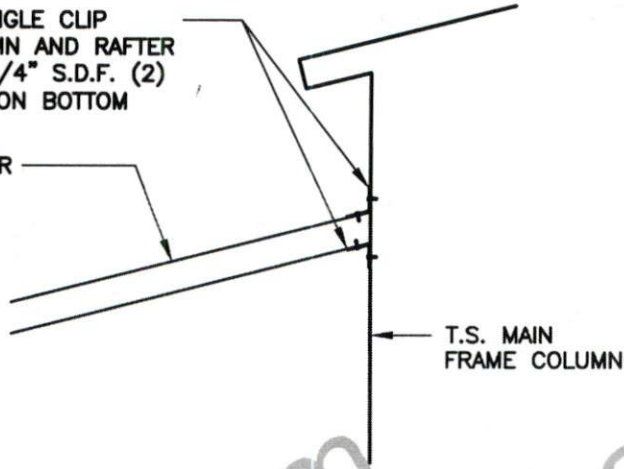
SHEET NO:
S15B

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

LEAN-TO / MAIN FRAME CONNECTION DETAILS

2"x2"x2" 14ga. ANGLE CLIP
 SECURE TO COLUMN AND RAFTER
 WITH #12-14 x 3/4" S.D.F. (2)
 ON TOP AND (2) ON BOTTOM

T.S. SINGLE RAFTER



LEAN-TO SINGLE RAFTER / BUILDING FRAME
 CONNECTION DETAIL

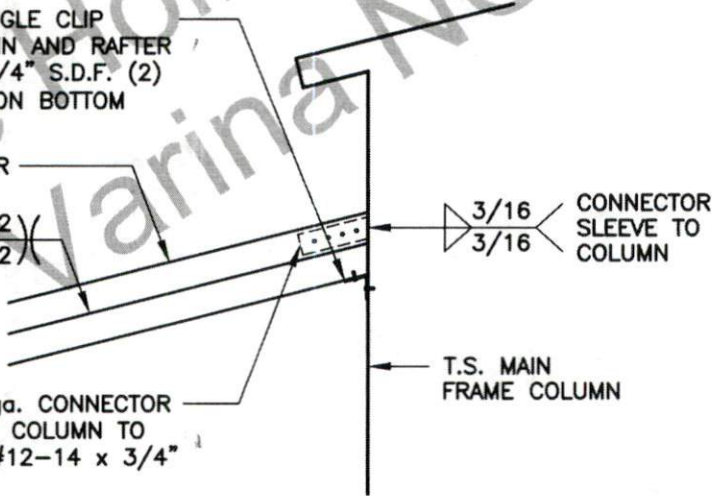
1
 S15C

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

2"x2"x2" 14ga. ANGLE CLIP
 SECURE TO COLUMN AND RAFTER
 WITH #12-14 x 3/4" S.D.F. (2)
 ON TOP AND (2) ON BOTTOM

T.S. SINGLE RAFTER

TYP. $\frac{3}{12}$ / $\frac{3}{12}$



MIN. 6" LONG, 14ga. CONNECTOR
 SLEEVE - SECURE COLUMN TO
 SLEEVE WITH (4) #12-14 x 3/4"
 S.D.F.'S

LEAN-TO DOUBLE RAFTER / BUILDING FRAME
 CONNECTION DETAIL

1A
 S15C

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



5 STAR
 METAL BUILDINGS

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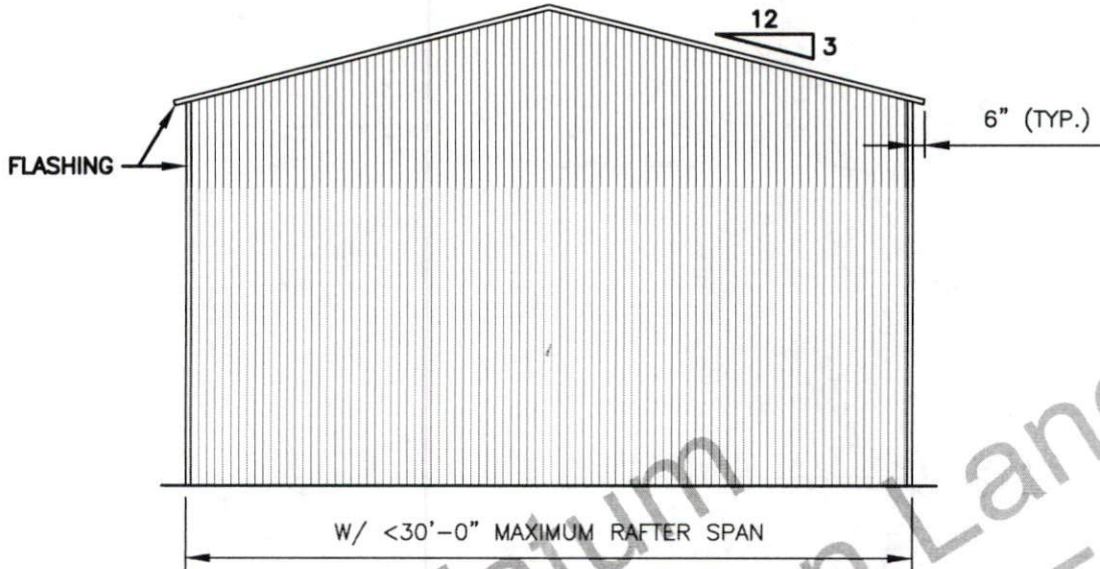
PROJECT NO:
 23-501

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 2024.01.22

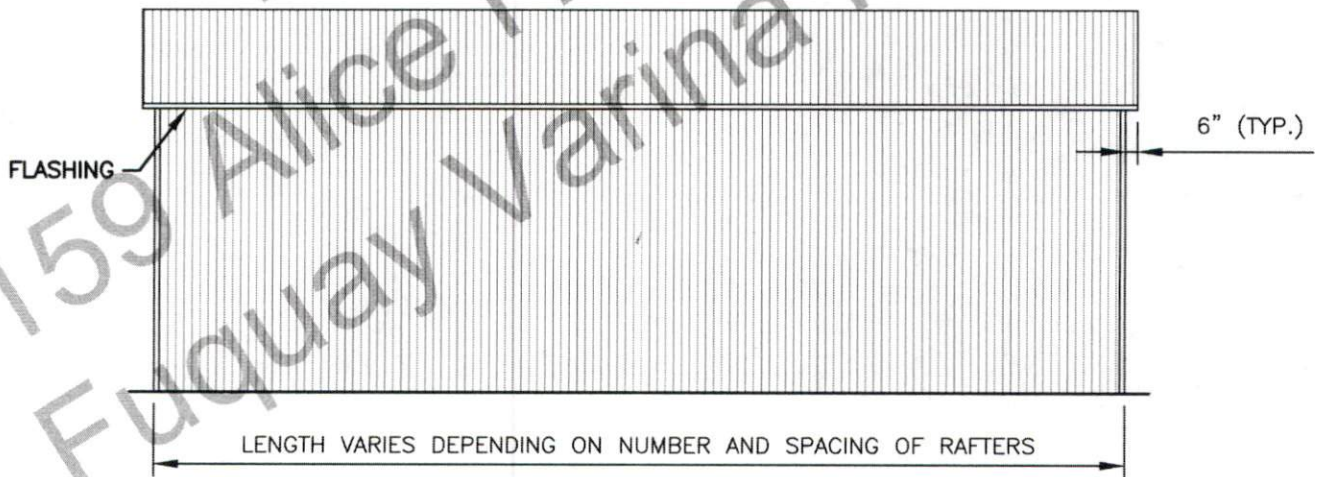
SHEET NO:
S15C

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

VERTICAL ROOF / SIDING OPTION



TYPICAL END ELEVATION - VERTICAL ROOF / SIDING



TYPICAL SIDE ELEVATION - VERTICAL ROOF / SIDING



5 STAR
METAL BUILDINGS

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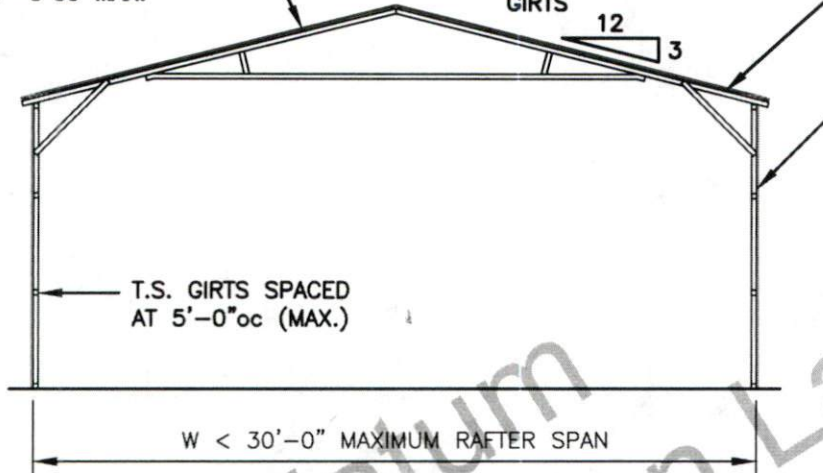
SHEET NO:
S16

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

VERTICAL ROOF / SIDING OPTION

1.125"-18ga. HAT CHANNELS
FASTENED TO EACH RAFTER
WITH (2) #12-14x $\frac{3}{4}$ " S.D.F.
SPACED AT 4'-0"oc MAX.

29 GA. GALVANIZED
METAL ROOF AND WALL
PANELS FASTENED TO
HAT CHANNELS AND
GIRTS



TYPICAL SECTION VERTICAL ROOF / SIDING OPTION

NOTE:
H.S.S. 2-1/2"x2-1/2"x14ga. OR
2-1/4"x2-1/4"x14ga. MATERIAL
MAY BE USED FOR TRUSS METAL.



5 STAR
METAL BUILDINGS

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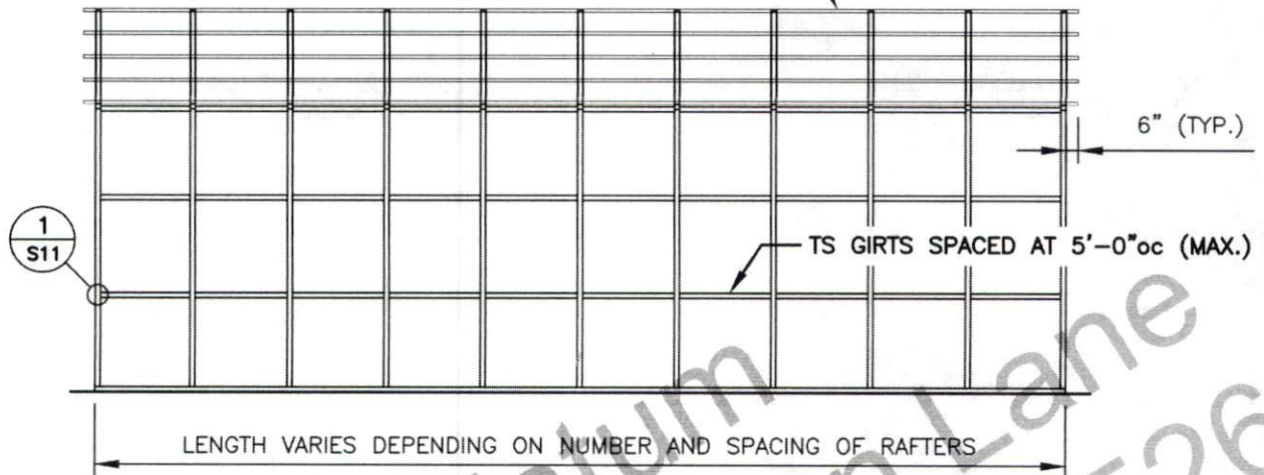
SHEET NO:
S16A

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

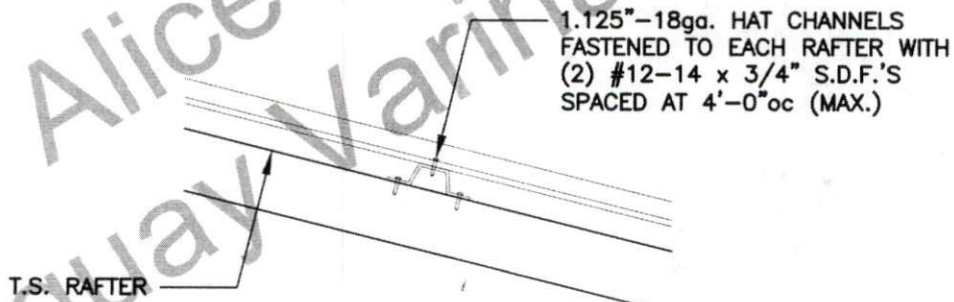
VERTICAL ROOF / SIDING OPTION

SEE NOTES
(SHEET S3)
FOR MAXIMUM
SPACING

1.125"-18ga. HAT CHANNELS
FASTENED TO EACH RAFTER
WITH (2) #12-14x3/4" S.D.F.
SPACED AT 4'-0"oc MAX.



TYPICAL SIDE FRAMING SECTION VERTICAL ROOF / SIDING OPTION



(TYPICAL) ROOF PANEL ATTACHMENT



5 STAR
METAL BUILDINGS

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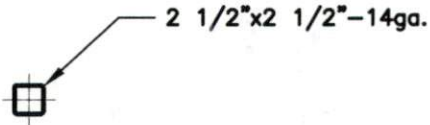
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23-501

DATE:
2024.01.22

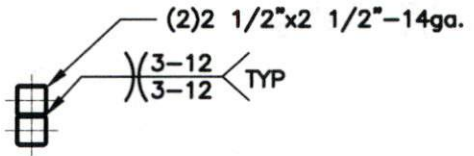
SHEET NO:
S16B

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

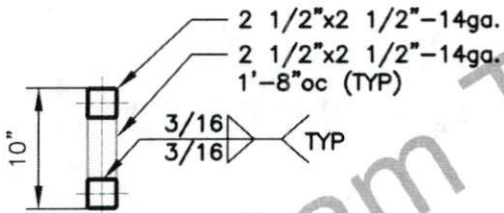
SIDE WALL HEADER OPTIONS



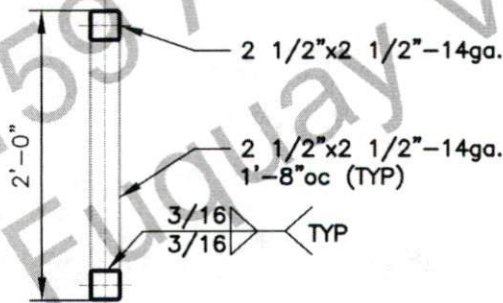
HEADER DETAIL FOR DOOR
OPENINGS < 4'-0"
 NTS



HEADER DETAIL FOR DOOR
OPENINGS 4'-1" < TO < 12'-0"
 NTS



LACED HEADER DETAIL FOR DOOR
OPENINGS 12'-1" < TO < 15'-0"
 NTS



LACED HEADER DETAIL FOR DOOR
OPENINGS 15'-1" < TO < 20'-0"

GENERAL NOTE:

PROVIDE DOUBLE WYTHE HEADER
 ON DOUBLE COLUMNS AND LACED
 COLUMNS



5 STAR
METAL BUILDINGS

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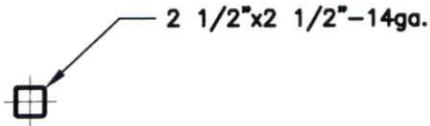
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PROJECT NO:
 23-501

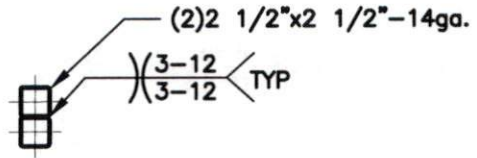
DATE:
 2024.01.22

SHEET NO:
S17

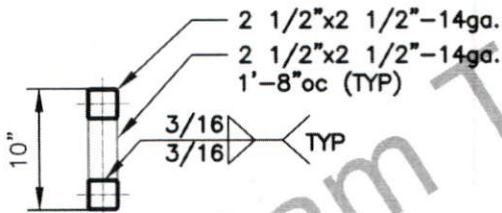
END WALL HEADER OPTIONS



HEADER DETAIL FOR DOOR
OPENINGS < 7'-0"
 NTS



HEADER DETAIL FOR DOOR
OPENINGS 7'-1" < TO < 16'-0"
 NTS



LACED HEADER DETAIL FOR DOOR
OPENINGS 16'-1" < TO < 20'-0"
 NTS

GENERAL NOTE:

PROVIDE DOUBLE WYTHE HEADER
 ON DOUBLE COLUMNS AND LACED
 COLUMNS



5 STAR
 METAL BUILDINGS

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SHEET NO:
S17A