

# ENCLOSED GABLE END BUILDING MAXIMUM 30'-0" WIDE X 16'-0" EAVE HEIGHT WITH BOX FRAME / (UP TO) 146 M.P.H. WIND ZONE - 35 P.S.F. SHOW LOAD FOR:

NC CARPORTS & GARAGE
116 EAST MARKET STREET
ELKIN, NORTH CAROLINA
TELE: 336-368-0668

ISSUE DATE: 01.23.24

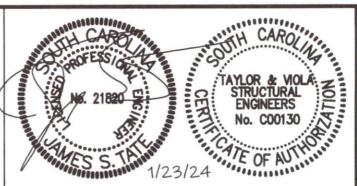




211 Stone Drive / Pilot Mountain, NC 27041 336-399-6277



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)



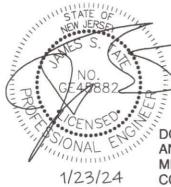
DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2012 IBC

1/23/24

DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 IBC

1/23/24

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



TAYLOR & VIOLA STRUCTURAL ENGINEERS P.O.B. 7616 HICKORY NORTH CAROLINA TELE 828-326-3311 FAX: 828-322-1801 WWW . TAYLORVIOLA COM

JCMT Associates, PLLC 211 Stone Drive, Pilot Mountain, NC 27041 Telephone: (336) 399-6277 NC CARPORTS & GARAGES

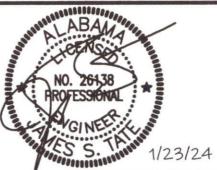
116 EAST MARKET STREET ELKIN, NORTH CAROLINA 28621 TELE: 336-368-0668

DRAWN BY:	PROJECT NO:
BKS	MISC
DATE: 01.23.24	SHEET NO:

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



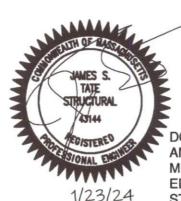
DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 IBC



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



DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 IBC



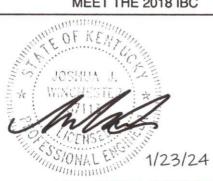
DOCUMENTS DESIGNED AND DRAWN TO MEET THE NINETH EDITION OF THE MA STATE BUILIDING CODE



DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 IBC



DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2017 IBC



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



TAYLOR & VIOLA STRUCTURAL ENGINEERS P.O.B. 7616 HICKORY NORTH CAROLINA TELI 828-328-6331 FAX: 828-322-1801 WWW . TAYLORVIOLA . COM

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# SHEET INDEX

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116 EAST MARKET STREET ELKIN, NORTH CAROLINA 28621 TELE: 336-368-0668

Street, or other Designation of the last	DRAWN BY: BKS	PROJECT NO: MISC	
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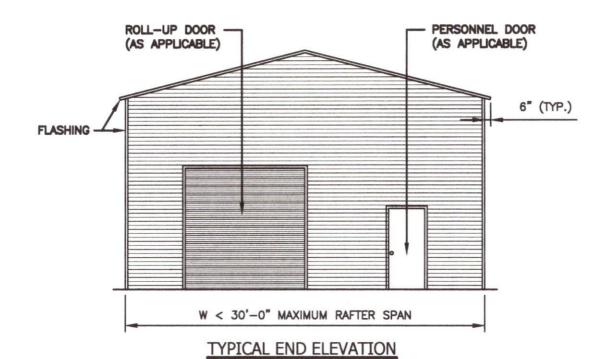
DESIGN LOADS:	
IMPORTANCE FACTORS	WIND (1w) 1.00 SNOW (1e) 1.00 SEISMIC (1e) 1.00
DEAD LOADS	ROOF         13         P.S.F.           ROOF COLLATERAL         0         P.S.F.
LIVE LOADS	ROOF
GROUND SNOW LOAD:	35 P.S.F. * DRIFT LOAD HAS NOT BEEN CALCULATED
WIND LOAD:	BASIC WIND SPEED V 145 M.P.H. (ASCE 7-16) EXPOSURE CATAGORY
SEISMIC DESIGN CATAGORY	A B X C D
PROVIDE THE FOLLOWING S	EISMIC DESIGN PARAMETERS:
OCCUPANCY CATEGORY	
SPECTRAL RESPONSE ACCE	LERATION Se 20.5 %g S1 8.8 %g
SITE CLASSIFICATION _	D . FIELD TEST . PRESUMPTIVE . HISTORICAL DATA
BASIC STRUCTURAL SYSTEM	(CHECK ONE)
. BEARING WALL X BUILDING FRAME . MOMENT FRAME	DUAL W/ SPECTRAL MOMENT FRAME DUAL W/ INTERMEDIATE R/C OR SPECIAL STEEL INVERTED PENDULUM
ANALYSIS PROCEDURE	. SIMPLIFIED X EQUIVALANT LATERAL FORCE . MODAL
LATERAL DESIGN CONTROLS	EARTHQUAKEX WIND
SOIL BEARING CAPACITIES: PRESUMPTIVE BEARING CAP	

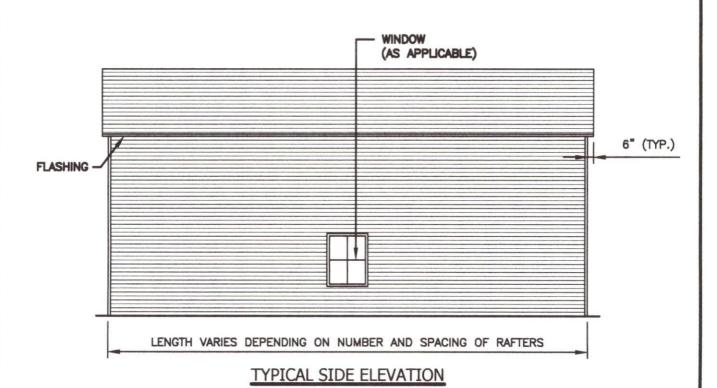
#### GENERAL NOTES:

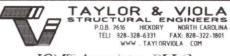
- 1. MAX FRAME SPACING SHALL BE 60"oc UNLESS NOTED OTHERWISE.
- 2. MAX. END-WALL COLUMN SPACING SHALL BE 60°CC UNLESS NOTED OTHERWISE.
- 3. TUBE MATERIAL SHALL BE 2-1/2" x 2-1/2" x 14gg. 50 K.S.I. MIN. UNLESS NOTED OTHERWISE.
- 4. ALL FASTENERS SHALL BE (2) #12 SELF TAPPING AT 9"o.c. UNLESS NOTED OTHERWISE.
- 5. 2,000 P.S.F. ASSUMED BEARING CAPACITY UNLESS NOTED OTHERWISE.
- 6. THESE DRAWINGS ARE NOT APPLICABLE TO PARTIALLY OPEN / ENCLOSED OR OPEN BUILDINGS.
- IF FRAME SPACING IS AT 48°oc (SIDE & END WALLS) GROUND SNOW LOAD CAN INCREASE TO 43.5 P.S.F. (EXCLUDING DRIFT).



# **BOX EVE FRAME RAFTER STURCTURE**







JCMT Associates, PLLC 211 Stone Drive, Pilot Mountain, NC 27041 Telephone: (336) 399-6277

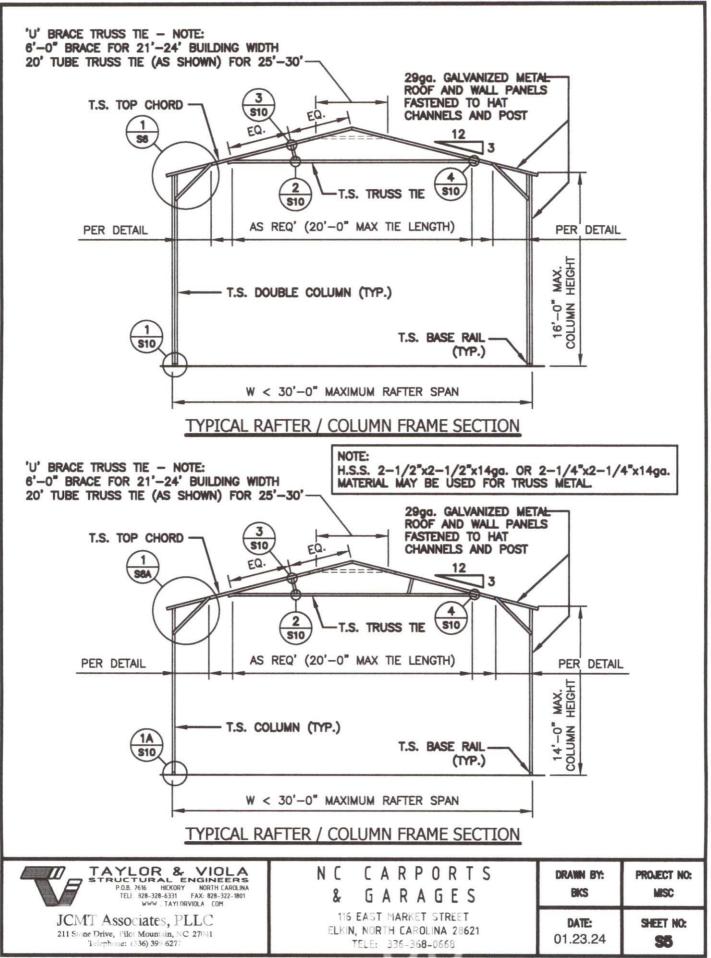
CARPORTS NC GARAGES

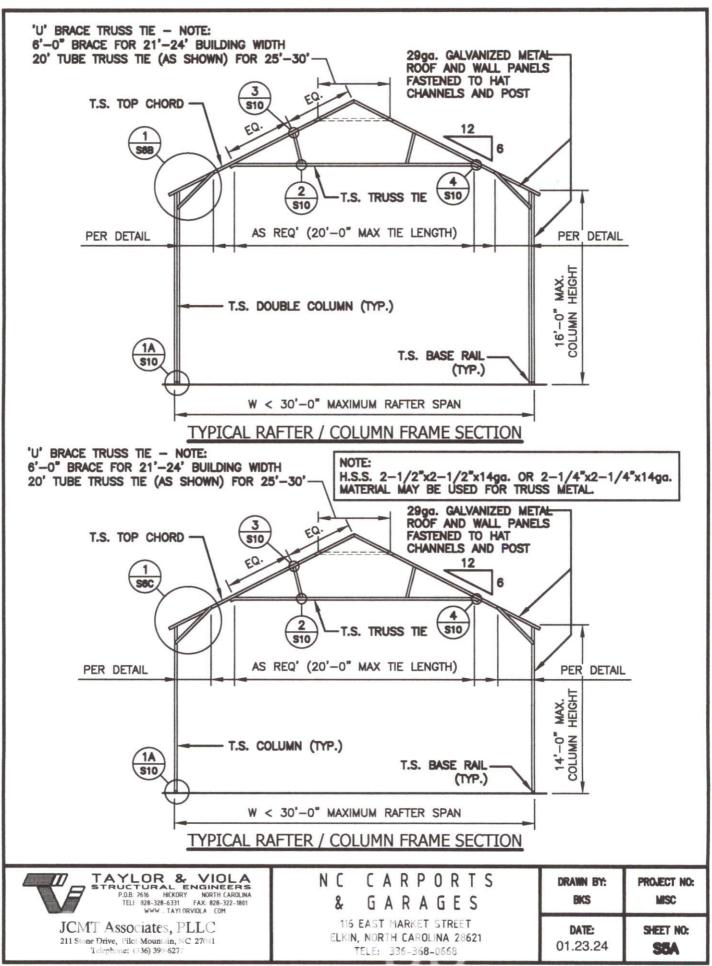
116 EAST MARKET STREET ELKIN, NORTH CAROLINA 28621 TELE: 336-368-0668

DRAWN BY: PROJECT NO: BKS MISC DATE:

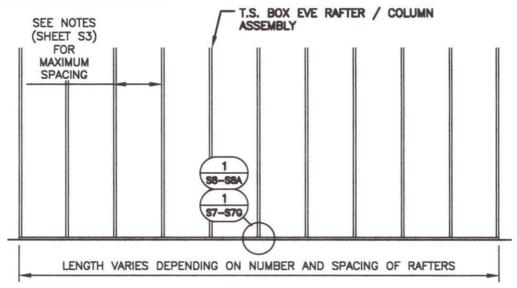
01.23.24

SHEET NO: **S4** 

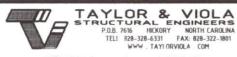




NOTE: H.S.S. 2-1/2"x2-1/2"x14ga. OR 2-1/4"x2-1/4"x14ga. MATERIAL MAY BE USED FOR TRUSS METAL.



# TYPICAL RAFTER / COLUMN SIDE FRAME SECTION

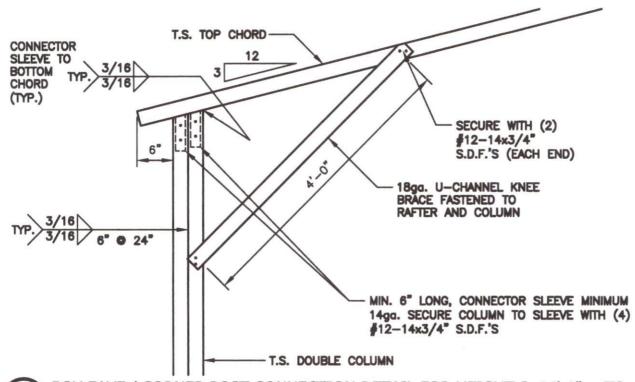


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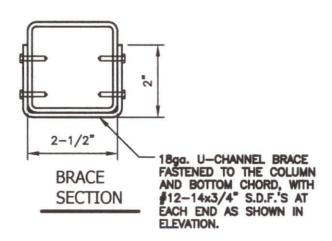
116 EAST MARKET STREET ELKIN, NORTH CAROLINA 28621 TELE: 336-368-0668 DRAWN BY: BKS PROJECT NO: MISC

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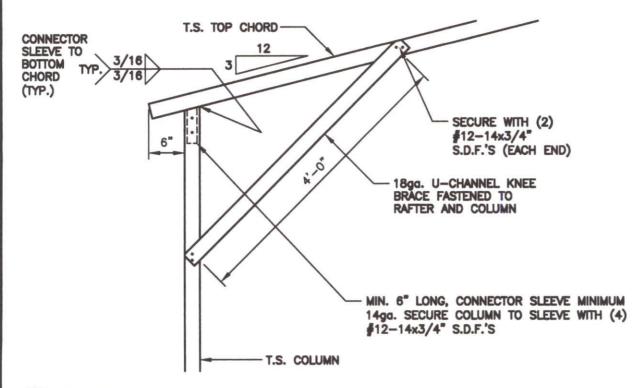
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BOX EAVE / CORNER POST CONNECTION DETAIL FOR HEIGHT.S. 14'-1" < TO S6 SCALG! -0" = 1'-0"



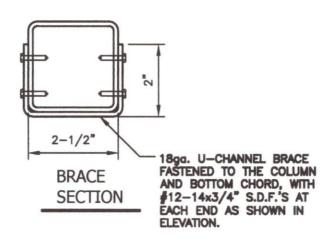




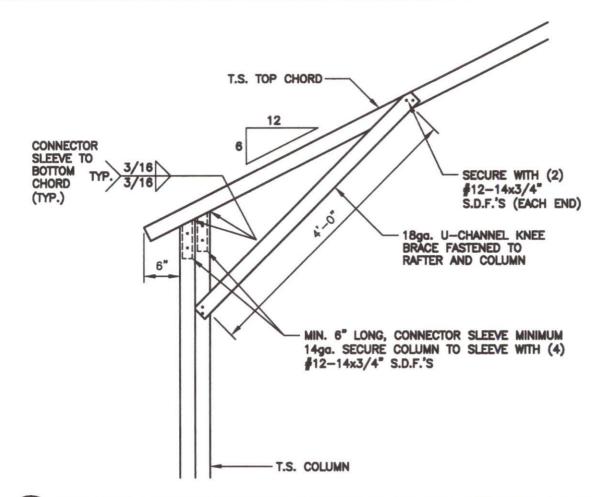
BOX EAVE / CORNER POST CONNECTION DETAIL FOR HEIGHT.S. < 14'-0"

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

S6A

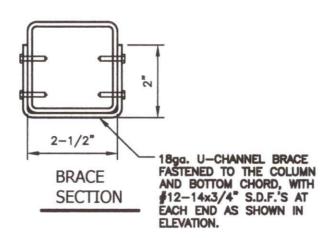






BOX EAVE / CORNER POST CONNECTION DETAIL FOR HEIGHT.S. 14'-1" < TO

S6C | SCALGE! -504" = 1'-0"



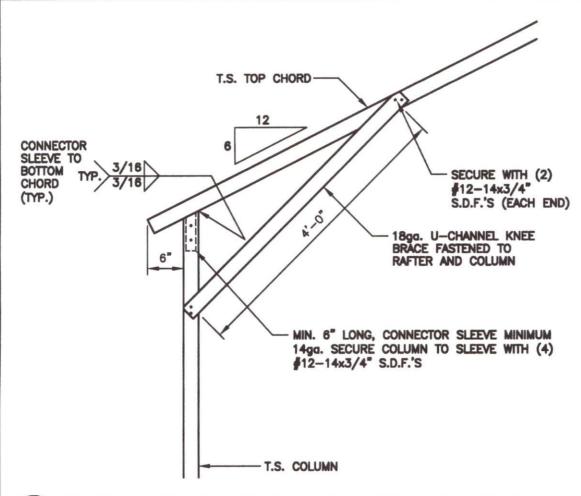


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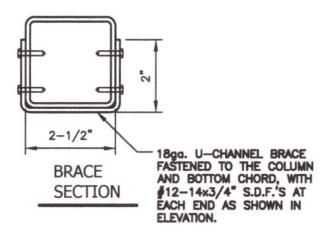
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BOX EAVE / CORNER POST CONNECTION DETAIL FOR HEIGHT.S. < 14'-0"

**S6C** SCALE: 3/4" = 1'-0"





& GARAGES

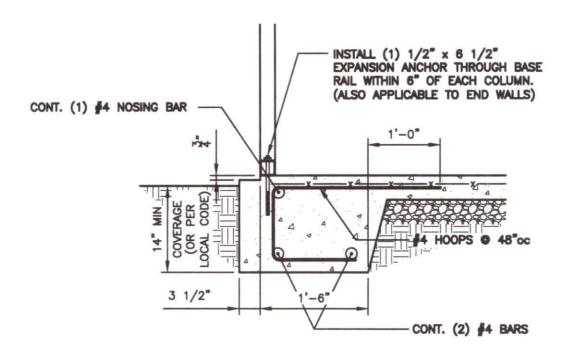
116 EAST MARKET STREET
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TELE: 336-368-0668

CARPORTS

DRAWN BY:	PROJECT NO:
BKS	MISC
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## CONCRETE BASE RAIL ANCHORAGE





#### 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:

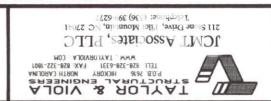
FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318: 3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH AND WEATHER AND 1-1/2" ELSEWHERE.

# 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.

- 1. REINFORCEMENT IS BENT COLD.
- 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.





1EFE: 339-398-0008 YLS 42.23.10 ELKIN, NORTH CAROLINA 28621 : BIAG 116 EAST MARKET STREET GARAGES SVIA DRAWN BY: STROGRES  $\supset N$ 

SHEEL NO: MIZC PROJECT NO:

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THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT REINFORCEMENT IS BENT COLD.

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

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

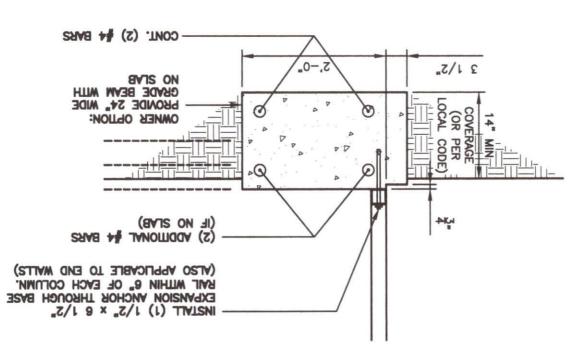
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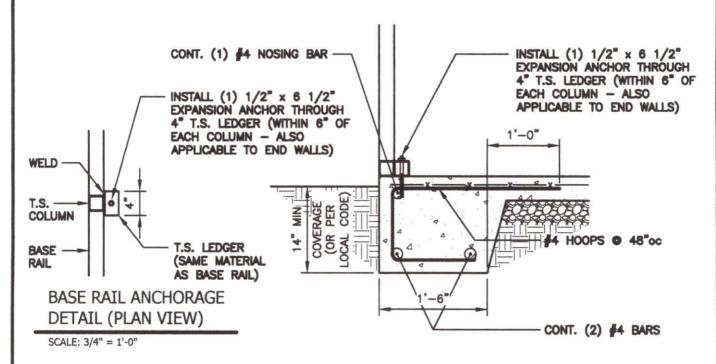
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#### **GENERAL NOTES:**





# CONCRETE BASE RAIL ANCHORAGE





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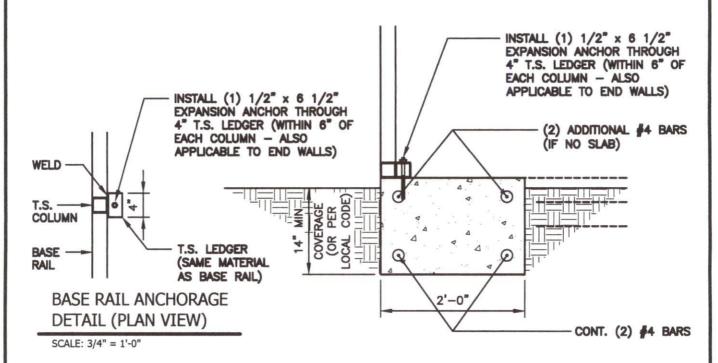
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# CONCRETE BASE RAIL ANCHORAGE (NO SLAB)





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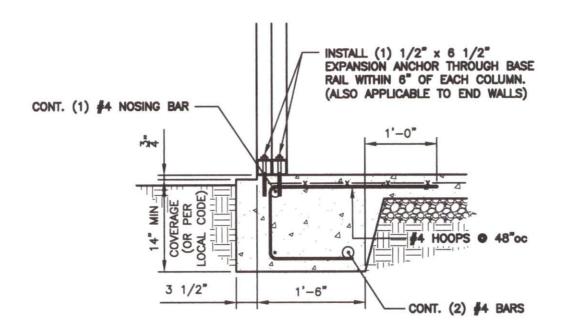
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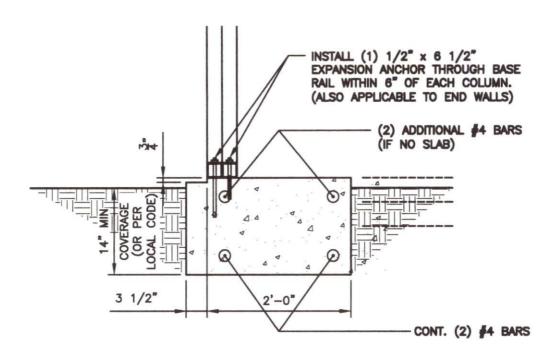
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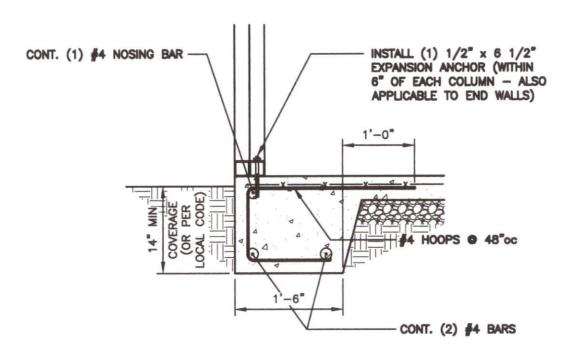
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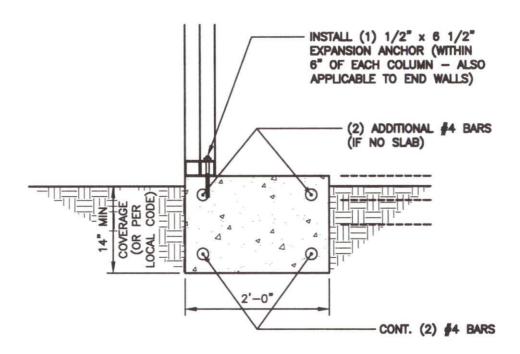
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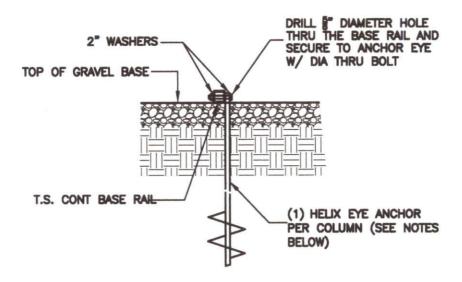
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- 2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.
- 3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.



# SOIL NAIL BASE RAIL ANCHORAGE



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

#### HELIX EMBEDMENT INFORMATION:

FOR VERY DENSE OR CEMETED SANDS, COARSE GRAVEL, COBBLES, CALICHE, PRELOADED SILT.S. 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.

BASE RAIL ANCHORAGE DETAIL

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 SILT.S., 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 SILT.S., USE MIN (2) 6" HELICES WITH MINIMUM 50" EMBEDMENT — ONE EACH END BASE RAIL AND 20'-0"oc MAX. WITH 44 REBAR AT 5'-0"oc BETWEEN.

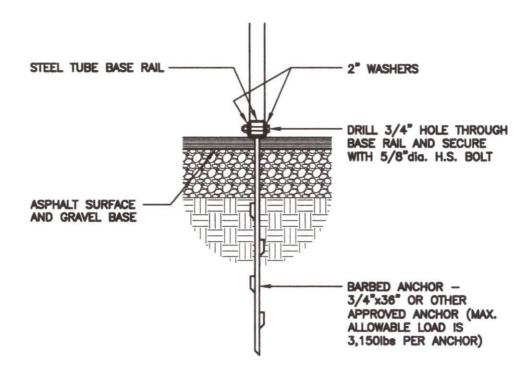
FOR VERY LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILT.S. AND ALLUVAL FILL, USE MIN (2) 8" HELICES WITH MINIMUM 60" EMBEDMENT — ONE EACH END BASE RAIL AND 20'-0"oc MAX. WITH #4 REBAR AT 5'-0"oc BETWEEN.

#### NOTE:

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



# ASPHALT ANCHOR BASE RAIL ANCHORAGE







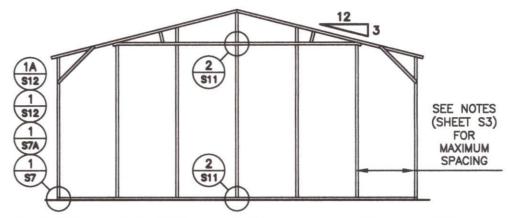
JCMT Associates, PLLC 211 Stone Drive, Pilot Mountain, NC 27041 Telephone: (336) 399-6277

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	&	G	Α	R	A	G	E	S	

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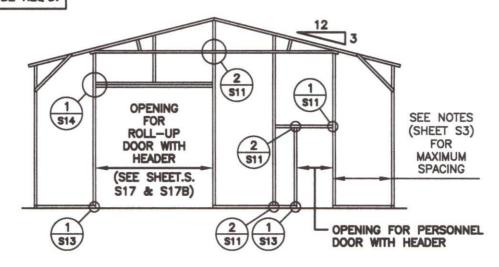
DRAWN BY: BKS	PROJECT NO: MISC
<b>DATE:</b> 01.23.24	SHEET NO:

# **BOX EVE RAFTER END WALL OPENINGS**



# TYPICAL BOX EVE RAFTER / END WALL COLUMN FRAME SECTION

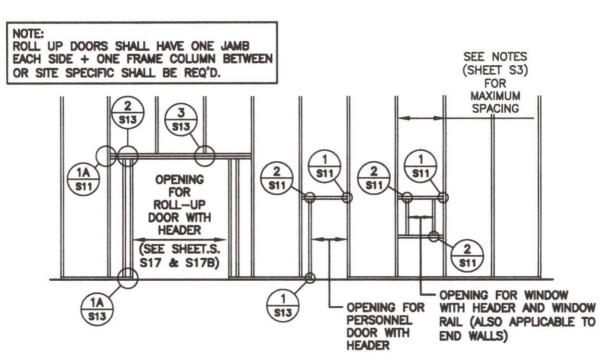
NOTE:
ROLL UP DOORS SHALL
HAVE ONE JAMB EACH
SIDE + ONE FRAME
COLUMN BETWEEN OR SITE
SPECIFIC SHALL BE REQ'D.



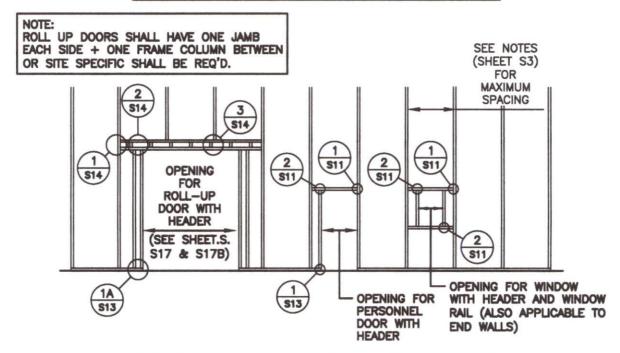
# TYPICAL BOX EVE RAFTER END WALL OPENINGS FRAMING SECTION



# BOX EVE RAFTER END WALL AND SIDE WALL OPENINGS

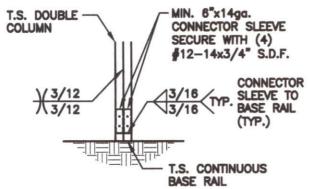


# TYPICAL END WALL OPENING FRAMING SECTION

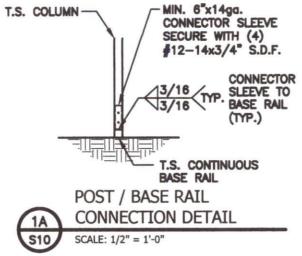


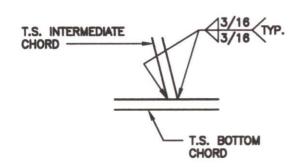
# TYPICAL SIDE WALL OPENING FRAMING SECTION





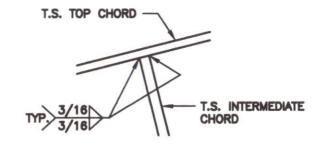
POST / BASE RAIL CONNECTION DETAIL SCALE: 1/2" = 1'-0"



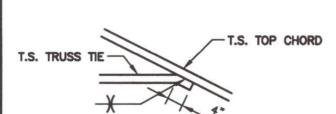


INTERMEDIATE CHORD TO BOTTOM CHORD CONNECTION DETAIL

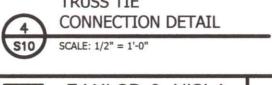
SCALE: 1/2" = 1'-0"



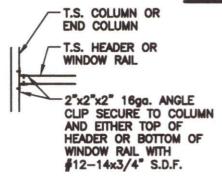
INTERMEDIATE CHORD TO TOP CHORD CONNECTION DETAIL SCALE: 1/2" = 1'-0"



TRUSS TIE







COLUMN OR WINDOW RAIL / WALL GIRT TO POST CONNECTION DETAIL



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

COLUMN / DOUBLE HEADER CONNECTION DETAIL



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

T.S. END POST OR CHORD OR HEADER

T.S. TRUSS RAFTER
CHORD OR HEADER

T.S. CHORD OR HEADER

2"x2"x2" 16ga. ANGLE
CLIP SECURE TO POST
(EACH SIDE) AND
RAFTER CHORD/RAIL
WITH #12—14x3/4"
S.D.F. (2) ON BOTTOM

DOOR OR WINDOW HEADER RAIL TO POST CONNECTION DETAIL

AND (2) ON SIDE



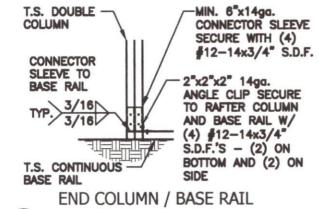
SCALE: 1/2" = 1'-0"

TAYLOR & VIOLA
STRUCTURAL ENGINEERS
P.O.B. 7616 HICKORY NORTH CAROLINA
TELL 328-328-6331 FAX: 828-322-1801
WWW. TAYLORVIOLA . COM

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DATE: SHEET NO: 01.23.24 \$11



T.S. DOUBLE -MIN. 6"x14ga. COLUMN CONNECTOR SLEEVE SECURE WITH (4) #12-14x3/4" S.D.F. CONNECTOR SLEEVE TO 2"x2"x2" 14ga. BASE RAIL ANGLE CLIP SECURE TO RAFTER COLUMN 3/16 AND BASE RAIL W/ (4) #12-14x3/4" S.D.F.'S - (2) ON BOTTOM AND (2) ON T.S. CONTINUOUS SIDE BASE RAIL END COLUMN / BASE RAIL

1A S12

CONNECTION DETAIL

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

1 CONNECTION DETAIL
S12 SCALE: 1/2" = 1'-0"

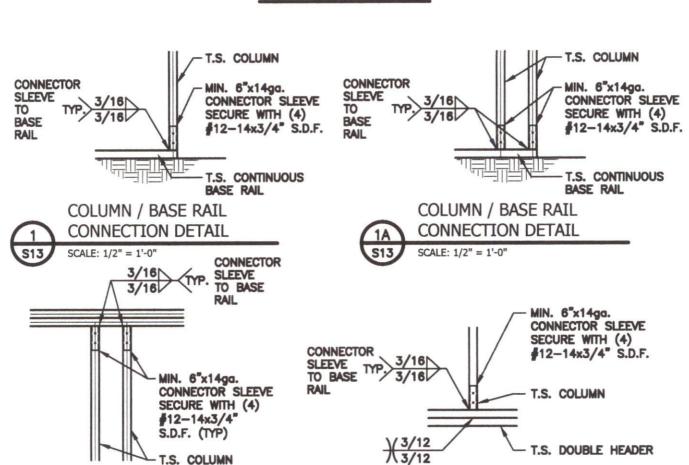
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DOUBLE HEADER / COLUMN
CONNECTION DETAIL

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

COLUMN / DOUBLE HEADER
CONNECTION DETAIL

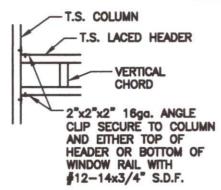
SCALE: 1/2" = 1'-0"



N C	C	Α	R	P	0	R	T	S
&	G	Α	R	A	G	E	S	
116 ELKIN,								

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COLUMN / LACED HEADER
CONNECTION DETAIL

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

T.S. LACED HEADER

VERTICAL CHORD

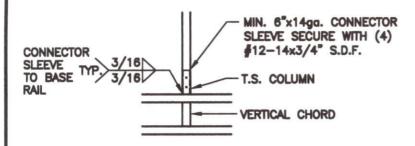
MIN. 6"x14ga. CONNECTOR SLEEVE SECURE WITH (4)

#12-14x3/4" S.D.F.

T.S. COLUMN

LACED HEADER / COLUMN
CONNECTION DETAIL

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



COLUMN / LACED HEADER
CONNECTION DETAIL

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



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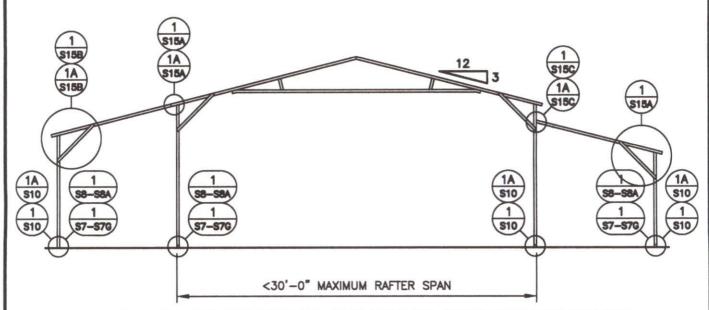
& G A R A G E S

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01.23.24 \$14

# **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



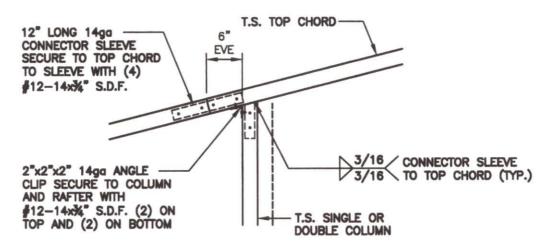
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BKS MISC

DATE: SHEET NO:

DATE: SHEET NO: 01.23.24 \$15

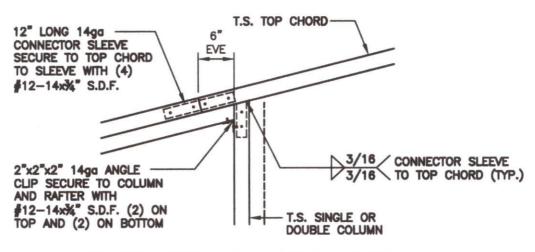
# LEAN-TO CONNECTION DETAILS



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

1 S15A

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



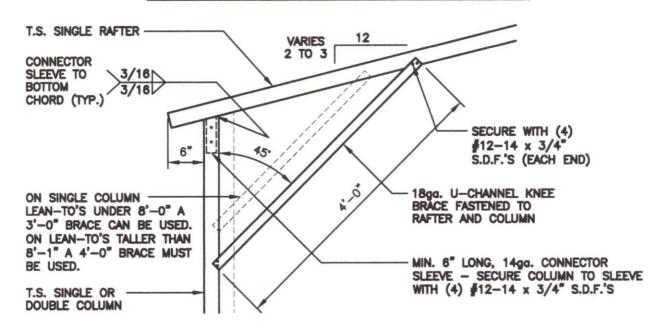
ROOF EXTENSION RAFTER / CORNER POST DETAIL FOR WIDTHS < 15'-0"



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

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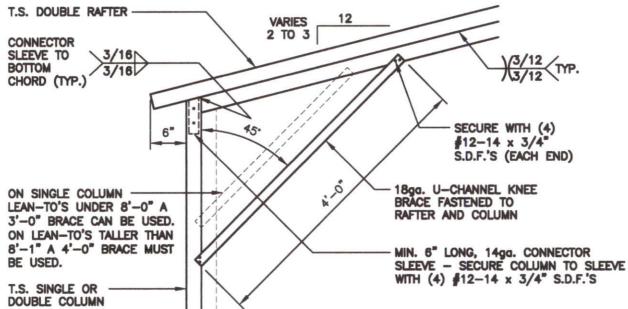
# LEAN-TO CONNECTION DETAILS - SINGLE COLUMN



LEAN-TO SINGLE RAFTER / SINGLE COLUMN CONNECTION DETAIL

1 CONNECTIO \$15B SCALE: 3/4" = 1'-0"

3CALE: 3/4 - 14



LEAN-TO DOUBLE RAFTER / SINGLE COLUMN CONNECTION DETAIL



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



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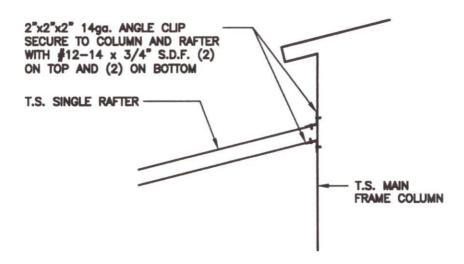
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DRAWN BY:	PROJECT NO:		
BKS	MISC		
DATE:	SHEET NO:		

S158

01.23.24

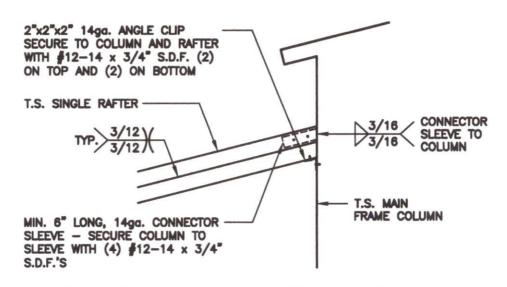
# LEAN-TO / MAIN FRAME CONNECTION DETAILS



# LEAN-TO SINGLE RAFTER / BUILDING FRAME CONNECTION DETAIL

1 \$15¢

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



# LEAN-TO DOUBLE RAFTER / BUILDING FRAME CONNECTION DETAIL SCALE: 3/4" = 1'-0"



& GARAGES

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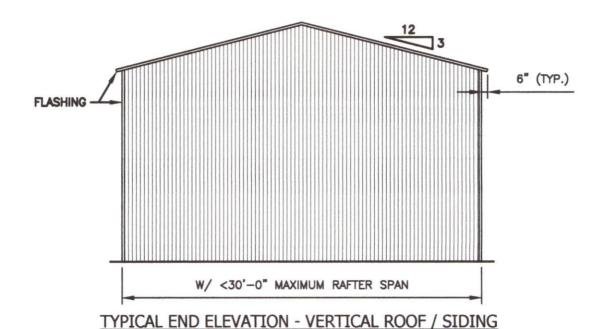
CARPORTS

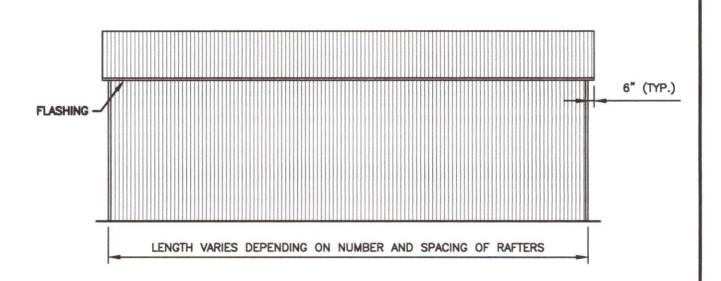
DRAWN BY: PROJECT NO: MISC

DATE: SHEET NO: 01.23.24 \$15C

NC

# VERTICAL ROOF / SIDING OPTION





# TYPICAL SIDE ELEVATION - VERTICAL ROOF / SIDING



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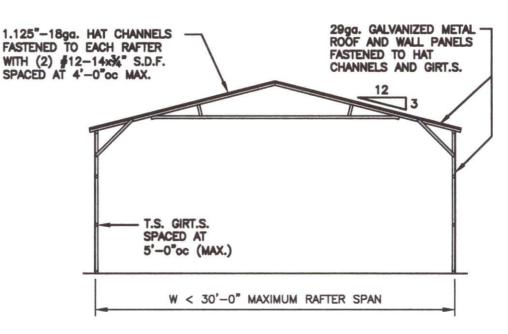
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BKS	MISC		
DATE:	SHEET NO:		

**S16** 

01.23.24

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

# **VERTICAL ROOF / SIDING OPTION**

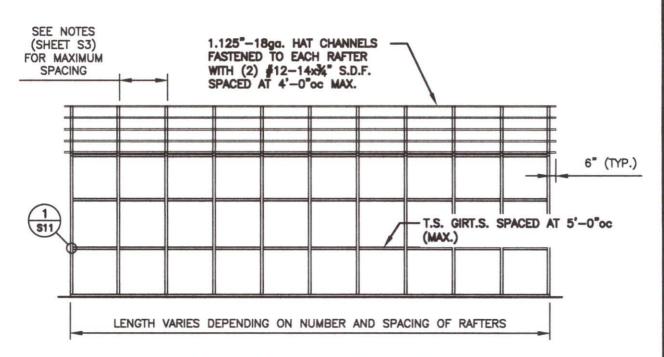


# TYPICAL SECTION VERTICAL ROOF / SIDING OPTION

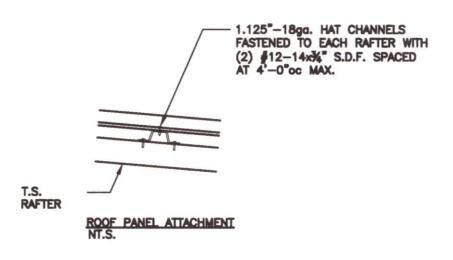
NOTE: H.S.S. 2-1/2"x2-1/2"x14ga. OR 2-1/4"x2-1/4"x14ga. MATERIAL MAY BE USED FOR TRUSS METAL.



# VERTICAL ROOF / SIDING OPTION

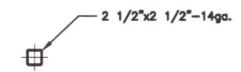


# TYPICAL SIDE FRAMING SECTION VERTICAL ROOF / SIDING OPTION

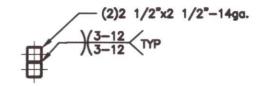




# SIDE WALL HEADER OPTIONS



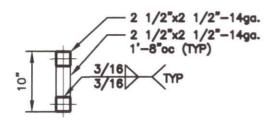
HEADER DETAIL FOR DOOR OPENINGS < 4'-0" NT.S.



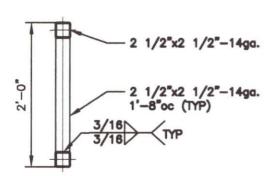
HEADER DETAIL FOR DOOR

OPENINGS 4'-1" < TO < 12'-0"

NT.S.



LACED HEADER DETAIL FOR DOOR OPENINGS 12'-1" < TO < 15'-0" NT.S.



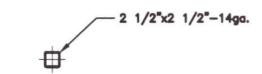
LACED HEADER DETAIL FOR DOOR OPENINGS 15'-1" < TO < 20'-0"



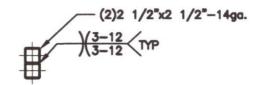
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# **END WALL HEADER OPTIONS**



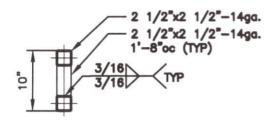
HEADER DETAIL FOR DOOR OPENINGS < 7'-0" NT.S.



HEADER DETAIL FOR DOOR

OPENINGS 7'-1" < TO < 16'-0"

NT.S.



LACED HEADER DETAIL FOR DOOR OPENINGS 16'-1" < TO < 20'-0" NT.S.

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TO	TO A DITO	

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N	C	С	A	R	P	0	R	T	S
	2	G	Α	R	Α	G	F	5	

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