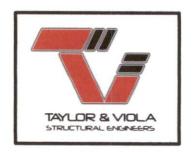


ENCLOSED GABLE END BUILDING MAXIMUM 30'-0" WIDE X 16'-0" EAVE HEIGHT WITH BOX FRAME / (UP TO) 145 M.P.H. VIND ZONE - 35 P.S.F. SNOW LOAD FOR:

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

ISSUE DATE: 01.23.24



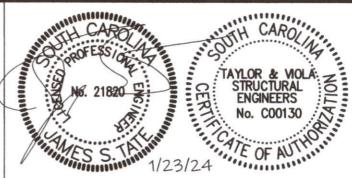




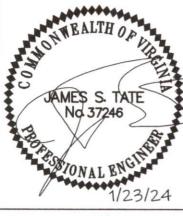
NOTE: THESE DRAWINGS ARE VALID FOR (1) CALENDAR YEAR AFTER THE ISSUE DATE LISTED ON THIS SHEET.



DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 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)



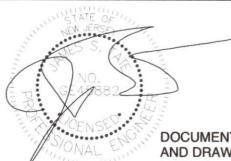
DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2012 IBC



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)



1/23/24

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



DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 IBC



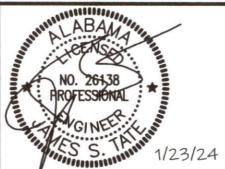
TAYLOR & VIOLA
STRUCTURAL ENGINEERS
P.O.B. 2616 HICKORY NORTH CAROLINA
TELE: 828-328-6331 FAX: 828-322-1801
WWW TAYLORVIOLA COM

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

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



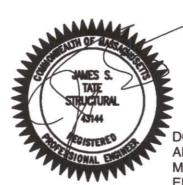
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DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2021 BUILDING CODE OF ALABAMA (2021 IBC)



DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 IBC



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

JOSHUA JO 1/23/24

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)

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CARPORTS NC GARAGES

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

SHEET INDEX

SHEET NUMBER	SHEET TITLE
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S1	P.E. SEALS SHEET
S1A	P.E. SEALS SHEET
S2	DRAWING INDEX
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)
S6A	COLUMN CONNECTION DETAILS
	(DOUBLE AND SINGLE COLUMN)
S6B	COLUMN CONNECTION DETAILS
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S6C	COLUMN CONNECTION DETAILS
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S7A	BASE RAIL ANCHORAGE
S7B	BASE RAIL ANCHORAGE
S7C	BASE RAIL ANCHORAGE
S7D ———	BASE RAIL ANCHORAGE
S7E	BASE RAIL ANCHORAGE
S7F	BASE RAIL ANCHORAGE
S7G	BASE RAIL ANCHORAGE
S8	BASE RAIL ANCHORAGE
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S9 ———	TYPICAL END WALL OPENINGS
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S9A	TYPICAL SIDE WALL OPENINGS
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S14	CONNECTION DETAILS
S15	LEAN-TO OPTIONS
	LEAN-TO CONNECTION DETAILS
S15B	LEAN-TO CONNECTION DETAILS
S15C	LEAN-TO CONNECTION DETAILS
S16 ———	VERTICAL ROOF / SIDING OPTION FND
	VERTICAL ROOF / SIDING OPTION END AND SIDE ELEVATION
S16A	VERTICAL ROOF / SIDING OPTION END SECTION
S16B	VERTICAL ROOF / SIDING OPTION SIDE
2100	SECTION SIDE OF TION SIDE
S17 ———	
S17A	END WALL HEADER OPTIONS



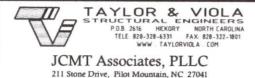
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DRAWN BY:	PROJECT NO:
BKS	MISC
DATE: 01.23.24	SHEET NO:

DESIGN LOADS:		
IMPORTANCE FACTORS	SNOW	(1w) 1.00 (1s) 1.00 (1e) 1.00
DEAD LOADS	ROOF ROOF COLLATERAL	13 P.S.F. P.S.F.
LIVE LOADS	ROOF	
GROUND SNOW LOAD:		35_ P.S.F. * DRIFT LOAD HAS NOT BEEN CALCULATED
WIND LOAD:	BASIC WIND SPEED EXPOSURE CATAGOR	NY 145 M.P.H. (ASCE 7-16)
SEISMIC DESIGN CATAGORY		A B X C D
PROVIDE THE FOLLOWING SE	EISMIC DESIGN PARAM	ETERS:
OCCUPANCY CATEGORY	*NOT FOR SI	LEEPING QUARTERS
SPECTRAL RESPONSE ACCE	LERATION Ss_	20.5 %g S1 8.8 %g
SITE CLASSIFICATION	. FIELD TE	ST . PRESUMPTIVE . HISTORICAL DATA
BASIC STRUCTURAL SYSTEM	(CHECK ONE)	
BEARING WALL DUAL W/ SPECTRAL MOMENT FRAME DUAL W/ INTERMEDIATE R/C OR SPECIAL STEEL MOMENT FRAME INVERTED PENDULUM ANALYSIS PROCEDURE SIMPLIFIEDX EQUIVALANT LATERAL FORCE MODAL LATERAL DESIGN CONTROL? EARTHQUAKEX WIND		
SOIL BEARING CAPACITIES: PRESUMPTIVE BEARING CAP	ACITIES:	2,000 P.S.F.
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 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).



Telephone: (336) 399-6277

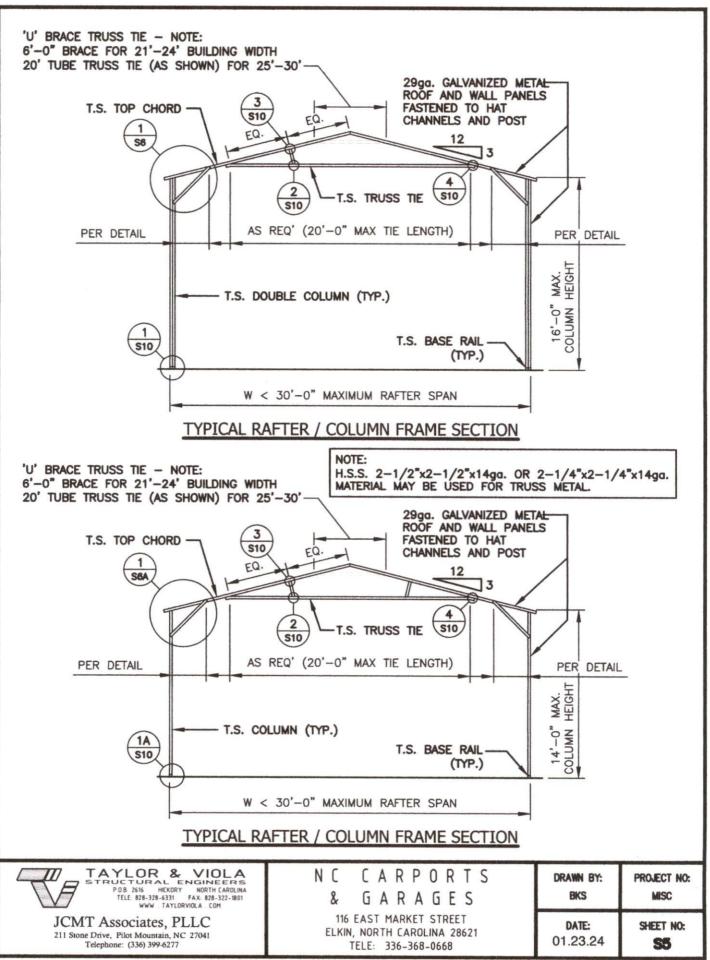
N C C A R P O R T S & G A R A G E S 116 EAST MARKET STREET ELKIN, NORTH CAROLINA 28621

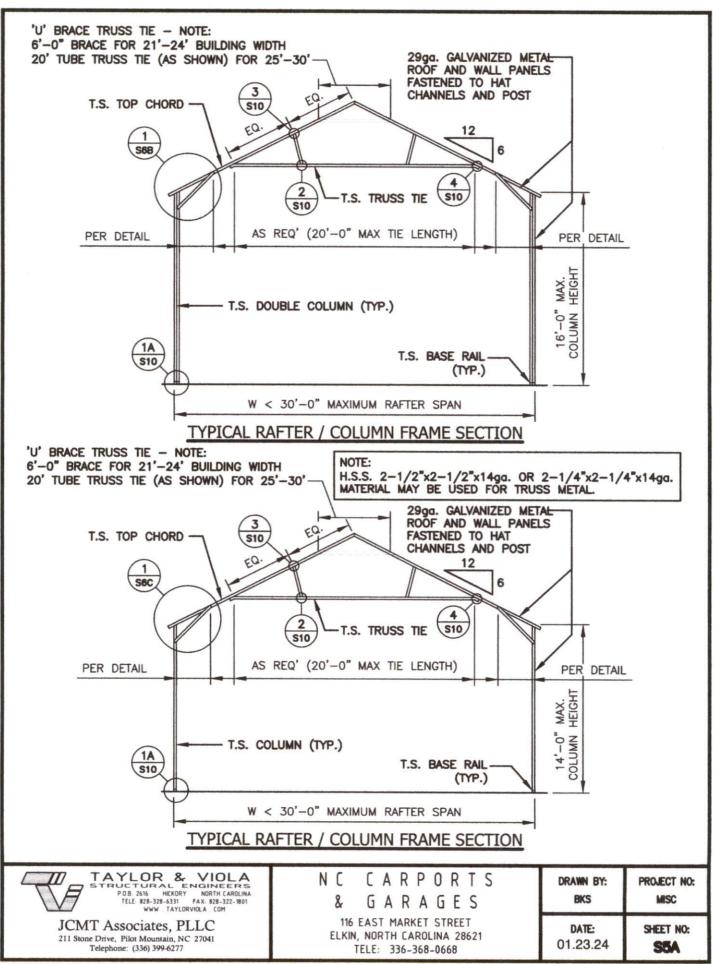
TELE: 336-368-0668

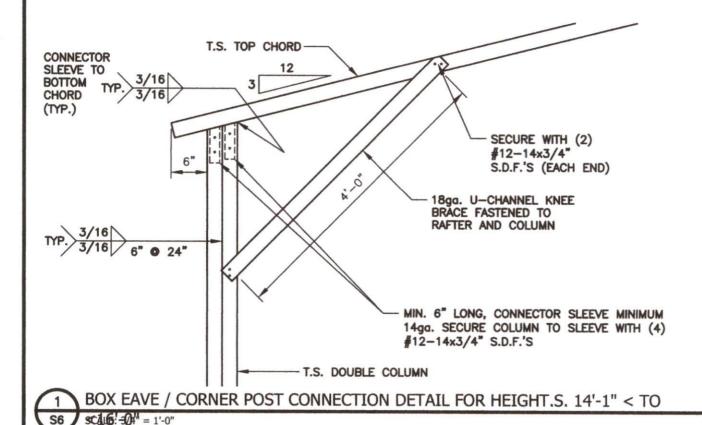
DRAWN BY: PROJECT NO:
BKS MISC

DATE: SHEET NO:
01.23.24 \$3

BOX EVE FRAME RAFTER STURCTURE ROLL-UP DOOR PERSONNEL DOOR (AS APPLICABLE) (AS APPLICABLE) 6" (TYP.) FLASHING W < 30'-0" MAXIMUM RAFTER SPAN TYPICAL END ELEVATION WINDOW (AS APPLICABLE) 6" (TYP.) FLASHING -LENGTH VARIES DEPENDING ON NUMBER AND SPACING OF RAFTERS TYPICAL SIDE ELEVATION TAYLOR & VIOLA STRUCTURAL ENGINEERS P.O.B. 2616 HICKORY NORTH CAROLINA TELE 828-328-6331 FAX: 828-322-801 WWW TAYLORVIOLA. COM CARPORTS NC DRAWN BY: PROJECT NO: GARAGES BKS MISC 116 EAST MARKET STREET JCMT Associates, PLLC DATE: SHEET NO: ELKIN, NORTH CAROLINA 28621 211 Stone Drive, Pilot Mountain, NC 27041 Telephone: (336) 399-6277 01.23.24 **S4** TELE: 336-368-0668



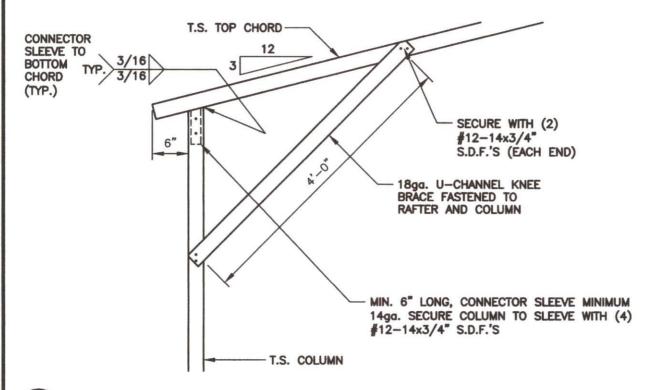




BRACE
SECTION

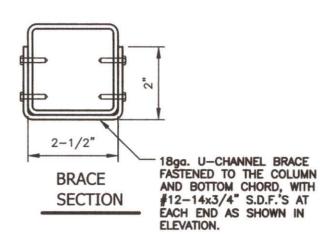
18gg. U-CHANNEL BRACE
FASTENED TO THE COLUMN
AND BOTTOM CHORD, WITH
#12-14x3/4" S.D.F.'S AT
EACH END AS SHOWN IN
ELEVATION.





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

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





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

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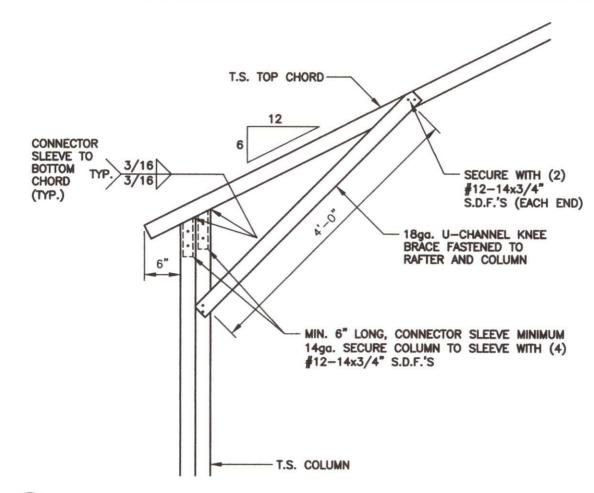
CARPORTS NC GARAGES

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

DRAWN BY: PROJECT NO: BKS MISC DATE:

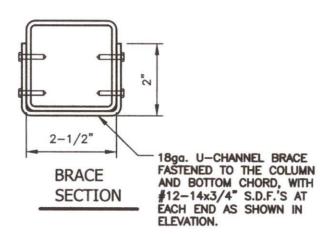
01.23.24

SHEET NO: SSA



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

S6C | SCALG!-10" = 1'-0"





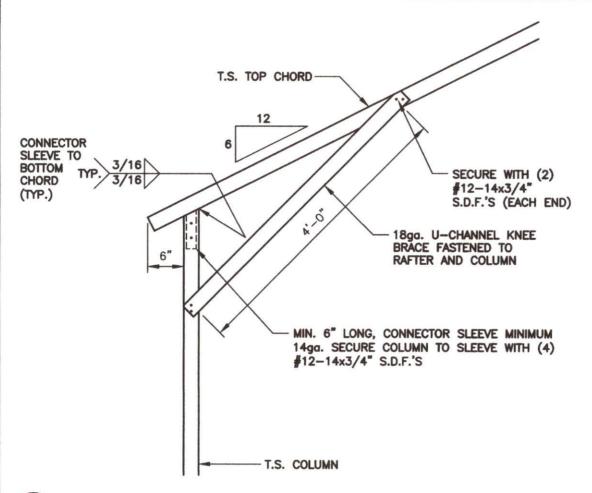
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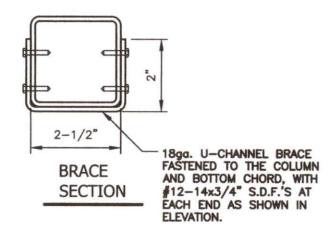
SHEET NO:



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

S6C

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





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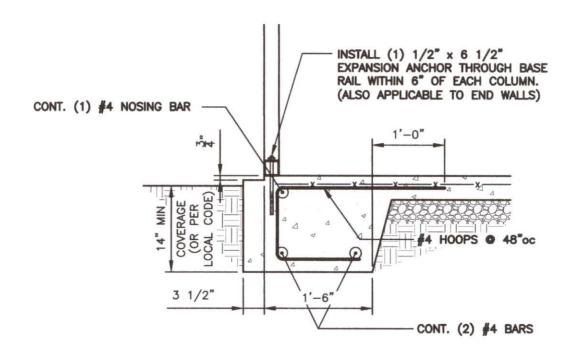
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116 EAST MARKET STREET ELKIN, NORTH CAROLINA 28621 TELE: 336-368-0668 DRAWN BY: PROJECT NO: MISC

DATE: 01.23.24

SHEET NO:

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.

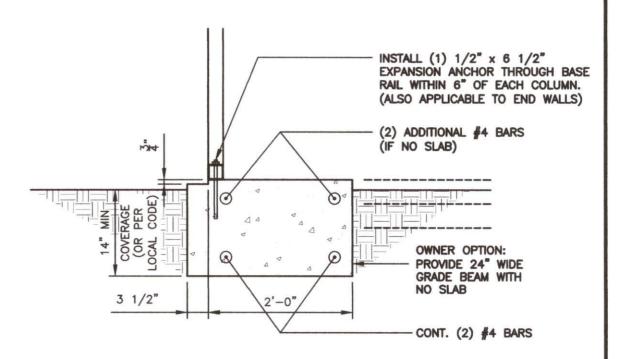
REINFORCING STEEL:

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.



CONCRETE BASE RAIL ANCHORAGE (NO SLAB)





GENERAL NOTES:

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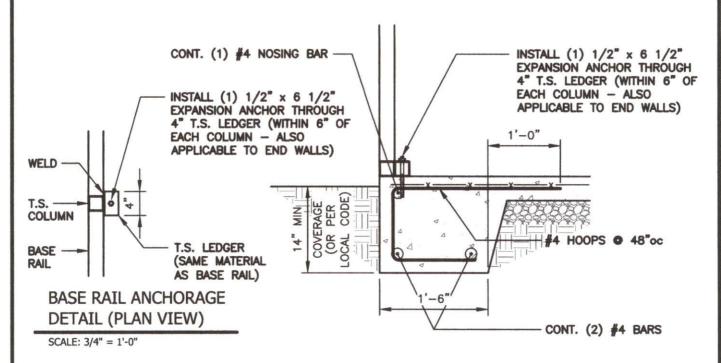
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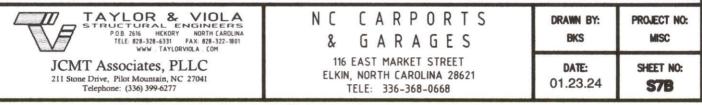
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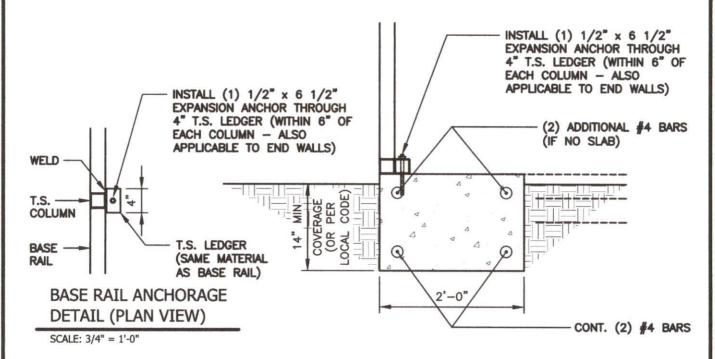
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CONCRETE BASE RAIL ANCHORAGE (NO SLAB)





GENERAL NOTES:

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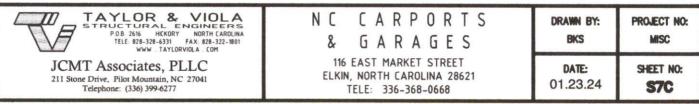
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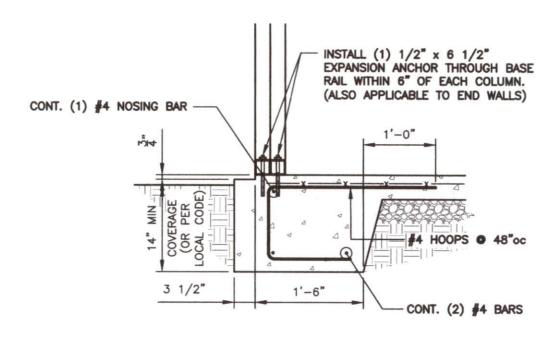
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CONCRETE BASE RAIL ANCHORAGE





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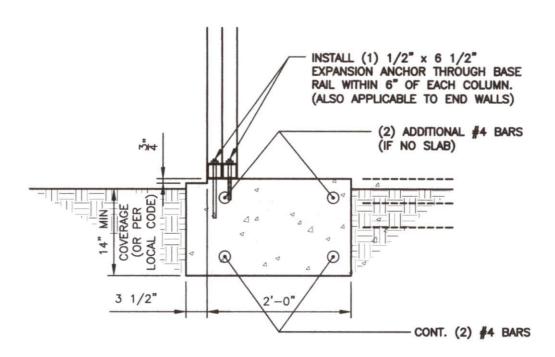
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CONCRETE BASE RAIL ANCHORAGE (NO SLAB)





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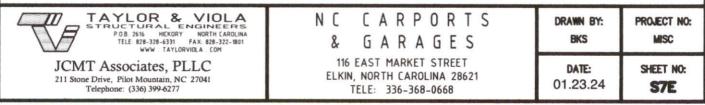
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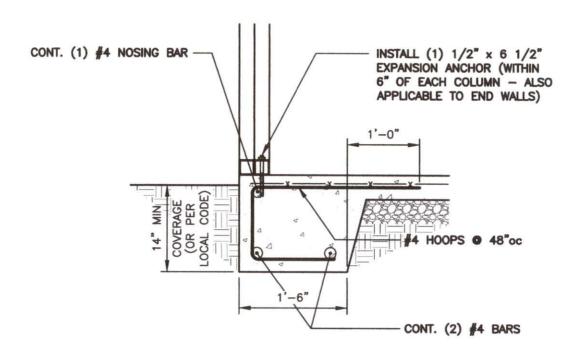
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CONCRETE BASE RAIL ANCHORAGE





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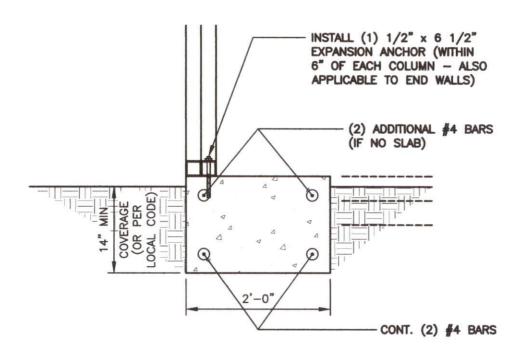
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CONCRETE BASE RAIL ANCHORAGE (NO SLAB)





GENERAL NOTES:

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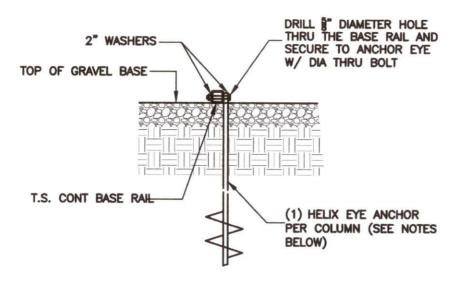
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THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

- 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.



SOIL NAIL BASE RAIL ANCHORAGE



BASE RAIL ANCHORAGE DETAIL

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.

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 #4 REBAR AT 5'-0"oc BETWEEN.

FOR VERY LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILT.S. 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.



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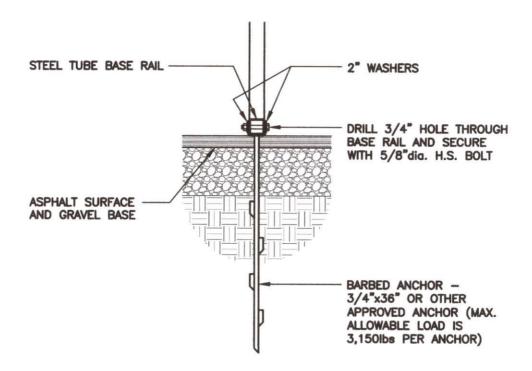
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PROJECT NO: MISC

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ASPHALT ANCHOR BASE RAIL ANCHORAGE





ASPHALT / BASE RAIL ANCHORAGE DETAIL

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



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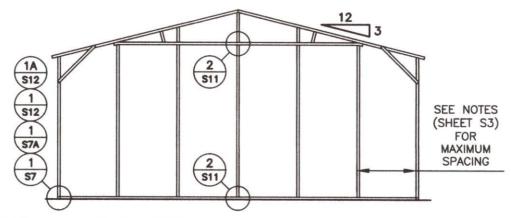
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BOX EVE RAFTER END WALL OPENINGS



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.

> 73 2 1 S11 **S11 OPENING** SEE NOTES 514 FOR (SHEET S3) ROLL-UP DOOR WITH FOR **MAXIMUM HEADER** S11 SPACING (SEE SHEET.S. S17 & S17B) OPENING FOR PERSONNEL S13 S11 S13 DOOR WITH HEADER

TYPICAL BOX EVE RAFTER END WALL OPENINGS FRAMING SECTION



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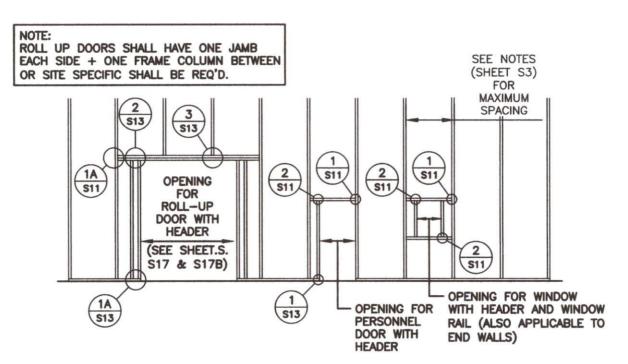
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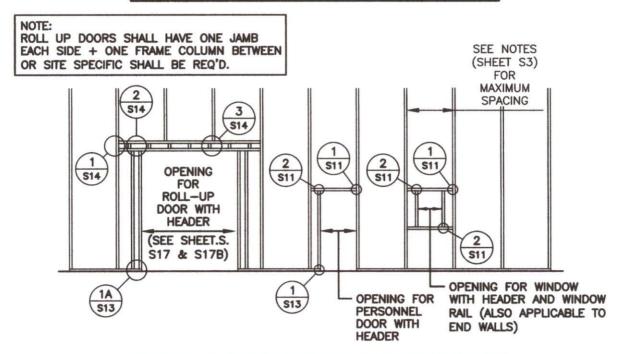
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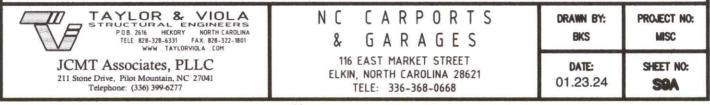
BOX EVE RAFTER END WALL AND SIDE WALL OPENINGS

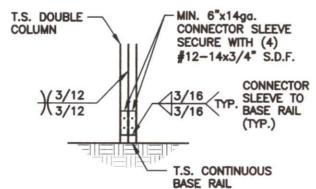


TYPICAL END WALL OPENING FRAMING SECTION



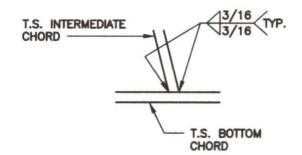
TYPICAL SIDE WALL OPENING FRAMING SECTION





POST / BASE RAIL CONNECTION DETAIL

S10 SCALE: 1/2" = 1'-0"



INTERMEDIATE CHORD TO BOTTOM CHORD CONNECTION DETAIL

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

MIN. 6"x14ga. T.S. COLUMN -CONNECTOR SLEEVE SECURE WITH (4) #12-14x3/4" S.D.F. CONNECTOR TYP. SLEEVE TO BASE RAIL /16 3/16 (TYP.) T.S. CONTINUOUS BASE RAIL

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

T.S. TOP CHORD T.S. INTERMEDIATE CHORD

INTERMEDIATE CHORD TO TOP CHORD CONNECTION DETAIL

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

T.S. TOP CHORD T.S. TRUSS TIE

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



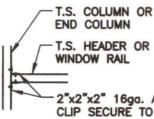
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2"x2"x2" 16ga. ANGLE
CLIP SECURE TO COLUMN
AND EITHER TOP OF
HEADER OR BOTTOM OF
WINDOW RAIL WITH
#12-14x3/4" S.D.F.

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



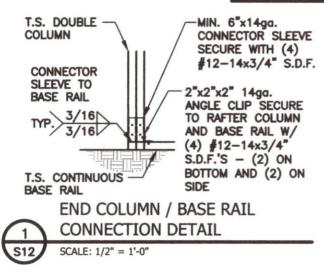
SCALE: 1/2" = 1'-0"

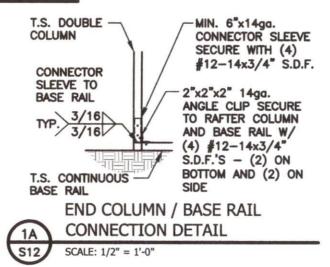
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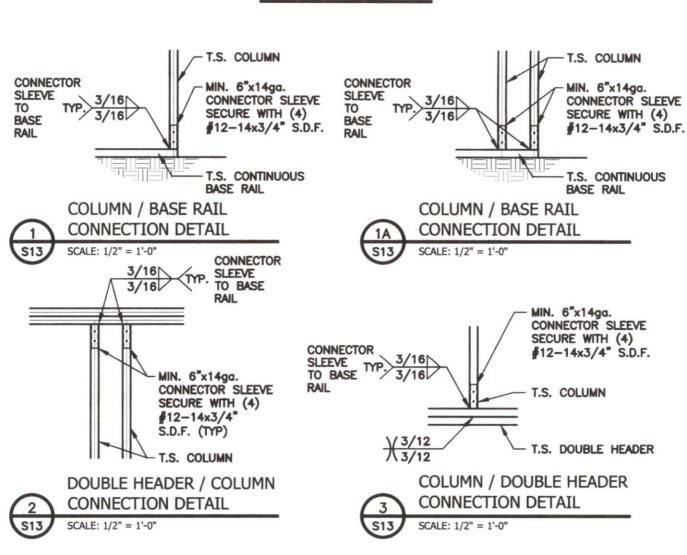


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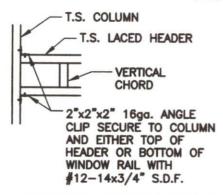
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DATE: SHEET NO: 01.23.24 \$12







T.S. LACED HEADER VERTICAL CHORD MIN. 6"x14ga. CONNECTOR SLEEVE SECURE WITH (4) #12-14x3/4" S.D.F. T.S. COLUMN

COLUMN / LACED HEADER CONNECTION DETAIL

LACED HEADER / COLUMN CONNECTION DETAIL

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

SCALE: 1/2" = 1'-0" **S14**

MIN. 6"x14ga. CONNECTOR SLEEVE SECURE WITH (4) #12-14x3/4" S.D.F. CONNECTOR 3/16 SLEEVE TO BASE TYP. 3/16 T.S. COLUMN RAIL VERTICAL CHORD

> COLUMN / LACED HEADER CONNECTION DETAIL

3

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



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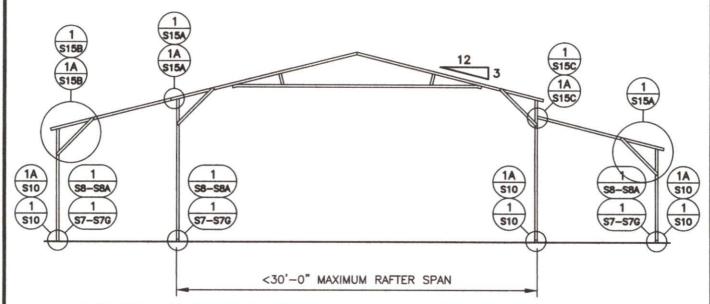
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BOX EVE RAFTER LEAN-TO OPTIONS



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



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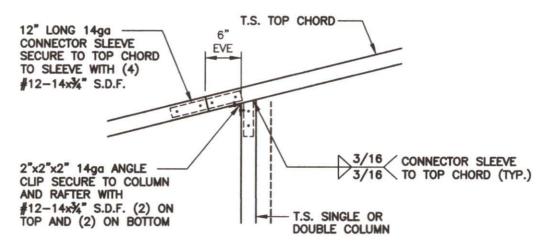
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DATE: SHEET NO:

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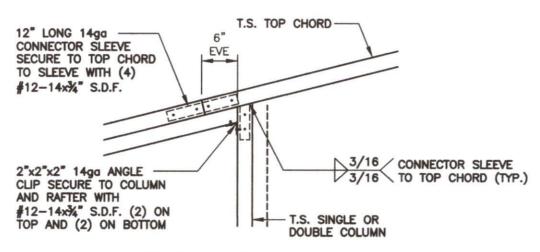
LEAN-TO CONNECTION DETAILS



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

(1 S15A)

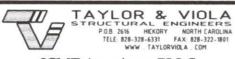
SCALE: 3/4" = 1'-0"



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

1A S15A

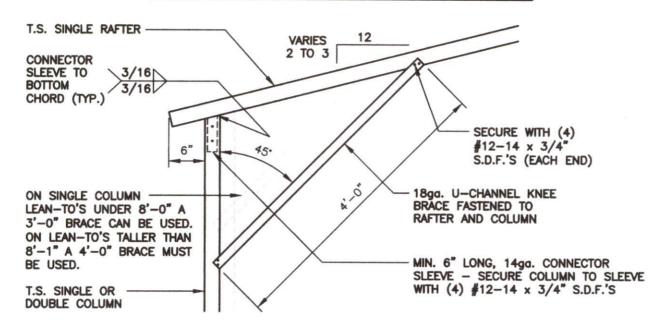
SCALE: 3/4" = 1'-0"



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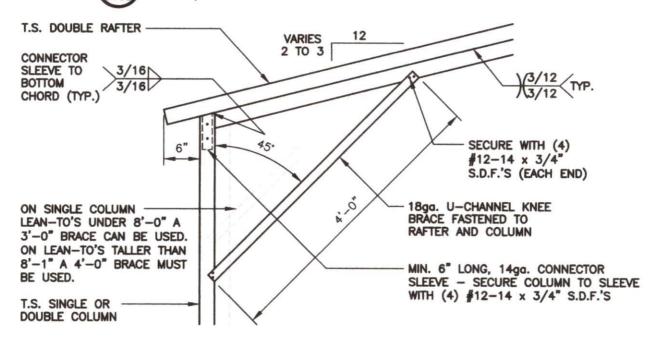
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LEAN-TO CONNECTION DETAILS - SINGLE COLUMN



LEAN-TO SINGLE RAFTER / SINGLE COLUMN CONNECTION DETAIL

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



LEAN-TO DOUBLE RAFTER / SINGLE COLUMN CONNECTION DETAIL

\$15E

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



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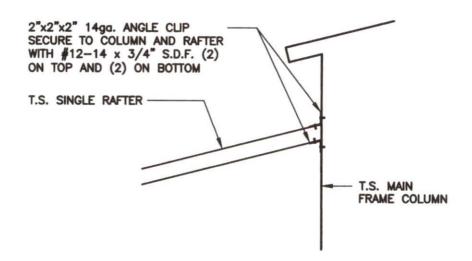
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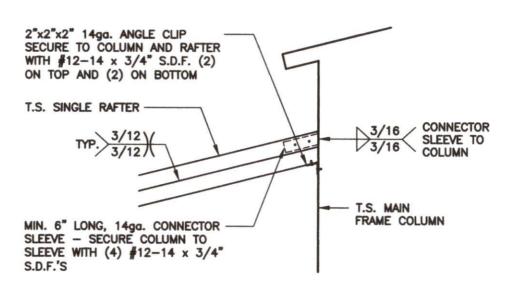
LEAN-TO / MAIN FRAME CONNECTION DETAILS



1 S15C

LEAN-TO SINGLE RAFTER / BUILDING FRAME CONNECTION DETAIL

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



LEAN-TO DOUBLE RAFTER / BUILDING FRAME CONNECTION DETAIL



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



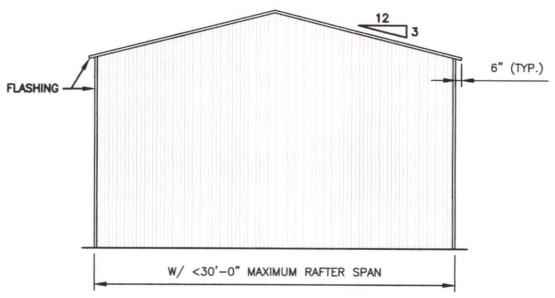
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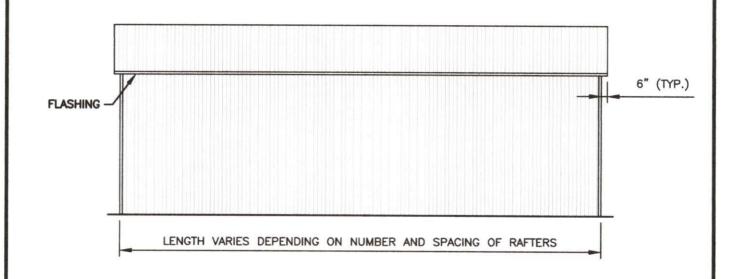
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VERTICAL ROOF / SIDING OPTION



TYPICAL END ELEVATION - VERTICAL ROOF / SIDING



TYPICAL SIDE ELEVATION - VERTICAL ROOF / SIDING



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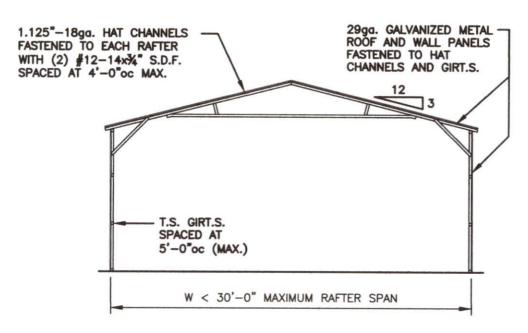
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VERTICAL ROOF / SIDING OPTION



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.



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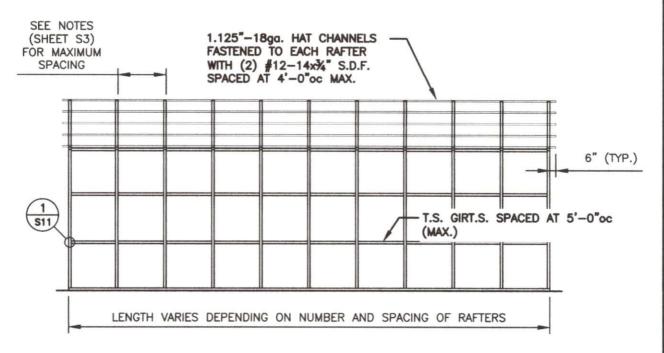
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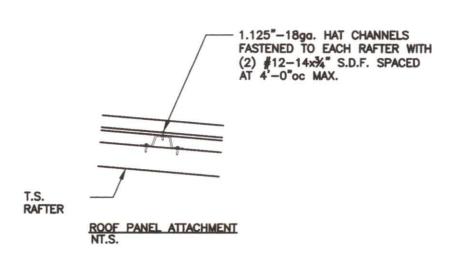
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VERTICAL ROOF / SIDING OPTION



TYPICAL SIDE FRAMING SECTION VERTICAL ROOF / SIDING OPTION





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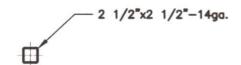
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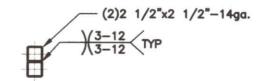
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SIDE WALL HEADER OPTIONS



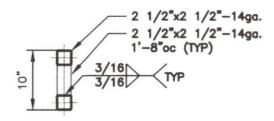
HEADER DETAIL FOR DOOR OPENINGS < 4'-0" NT.S.



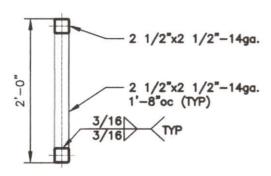
HEADER DETAIL FOR DOOR

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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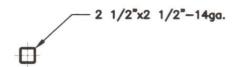
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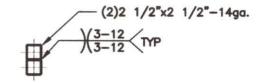
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END WALL HEADER OPTIONS



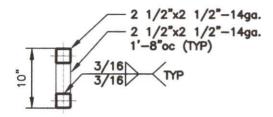
HEADER DETAIL FOR DOOR OPENINGS < 7'-0" NT.S.



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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