

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:

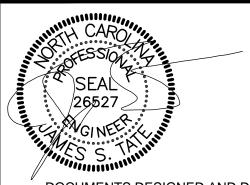
N.C. CARPORTS & GARAGES 116 EAST MARKET STREET / ELKIN, NC. 28621

ISSUE DATE: FEBRUARY 01, 2023

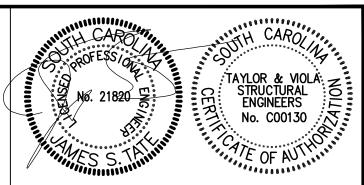




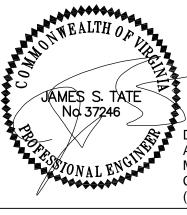




DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 NC BUILDING CODE (2015 IBC)



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)



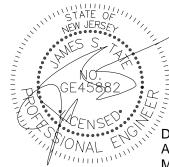
DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2012 IBC



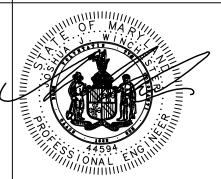
DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 IBC



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)



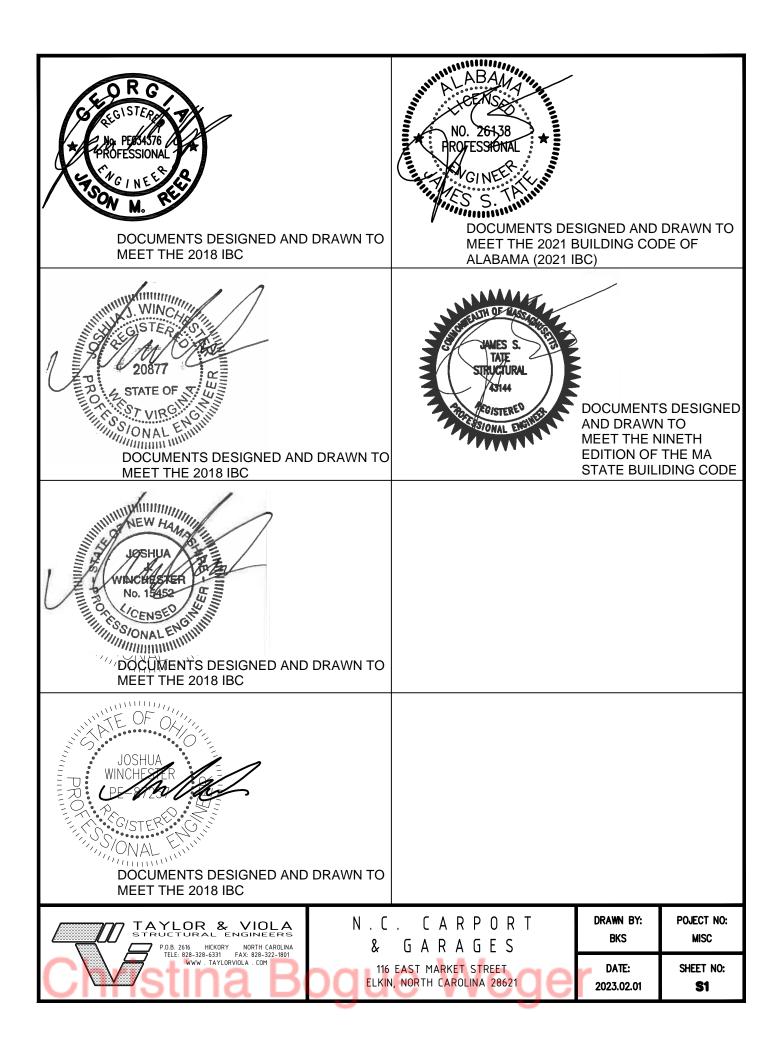
DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 IBC



N.C. CARPORT
& GARAGES

116 EAST MARKET STREET
ELKIN, NORTH CAROLINA 28621

Drawn by:	POJECT NO:
BKS	MISC
DATE: 2023.02.01	SHEET NO:



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

N . C . C A R P O R T & G A R A G E S

116 EAST MARKET STREET ELKIN, NORTH CAROLINA 28621

DRAWN	BY:
BKS	

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DATE: 2023.02.01

SHEET NO:

DESIGN LOADS:				
IMPORTANCE FACTORS	SNOW (1s	1.00 1.00 1.00		
DEAD LOADS	ROOF COLLATERAL	13 0	PSF PSF	
LIVE LOADS	ROOF	_20	PSF	
GROUND SNOW LOAD:		30	PSF	
GROUND LOAD:	BASIC WIND SPEED EXPOSURE CATAGORY		mph (ASCE 7-10)	* DRIFT LOAD HAS NOT BEEN CALCULATED
SEISMIC DESIGN CATAGORY	A			
COMPLIANCE WITH SECTION	1616.4?	X NO	YES	
PROVIDE THE FOLLOWING SE	EISMIC DESIGN PARAMETI	ERS:		
OCCUPANCY CATEGORY	1			
SPECTRAL RESPONSE ACCE	LERATION Ss 20	. <u>5</u> %g	S1 <u>8.8</u> %g	
SITE CLASSIFICATION D	FIELD TEST	P	RESUMPTIVE	HISTORICAL DATA
BASIC STRUCTURAL SYSTEM	(CHECK ONE)			
BEARING WALL X BUILDING FRAME MOMENT FRAME		INTERMED	L MOMENT FRAME DIATE R/C OR SPECI M	al steel

GENERAL NOTES:

SOIL BEARING CAPACITIES:

1. MAX FRAME SPACING SHALL BE 60"oc UNLESS NOTED OTHERWISE.

LATERAL DESIGN CONTROL? ____ EARTHQUAKE X WIND

PRESUMPTIVE BEARING CAPACITIES: 2,000 PSF

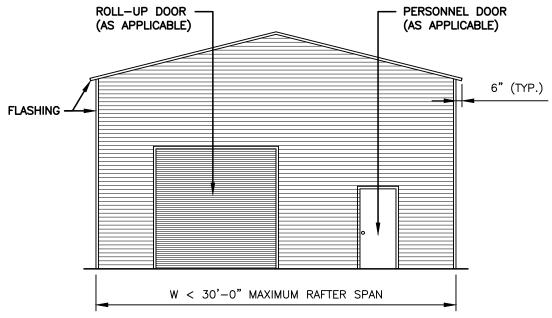
- 2. MAX. END-WALL COLUMN SPACING SHALL BE 60"oc UNLESS NOTED OTHERWISE.
- 3. TUBE MATERIAL SHALL BE 2-1/2" x 2-1/2" x 14 GA. 50 KSI MIN. UNLESS NOTED OTHERWISE.

ANALYSIS PROCEDURE _____ SIMPLIFIED __X _ EQUIVALANT LATERAL FORCE _____MODAL

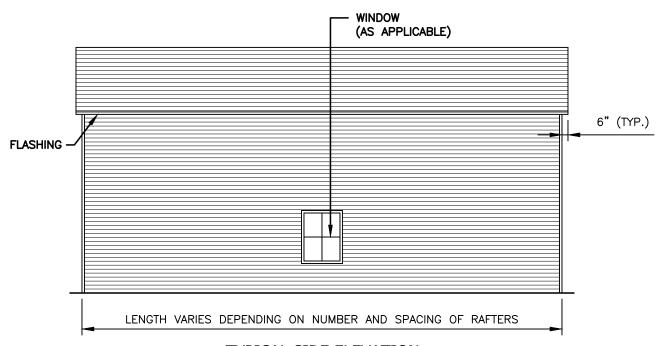
- 4. ALL FASTENERS SHALL BE #12 SELF TAPPING AT 9"o.c. UNLESS NOTED OTHERWISE.
- 5. 2,000 PSF ASSUMED BEARING CAPACITY UNLESS NOTED OTHERWISE.

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BOX EVE FRAME RAFTER STURCTURE



TYPICAL END ELEVATION



TYPICAL SIDE ELEVATION



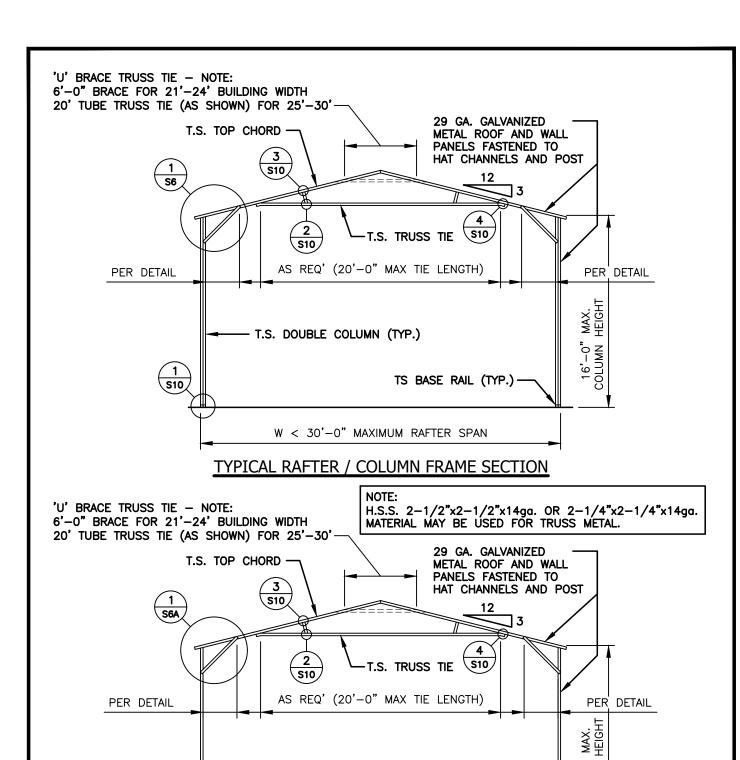
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116 EAST MARKET STREET ELKIN, NORTH CAROLINA 28621

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DATE:	SHEET NO:	

S4

2023.02.01



W < 30'-0" MAXIMUM RAFTER SPAN TYPICAL RAFTER / COLUMN FRAME SECTION

TS BASE RAIL (TYP.)-

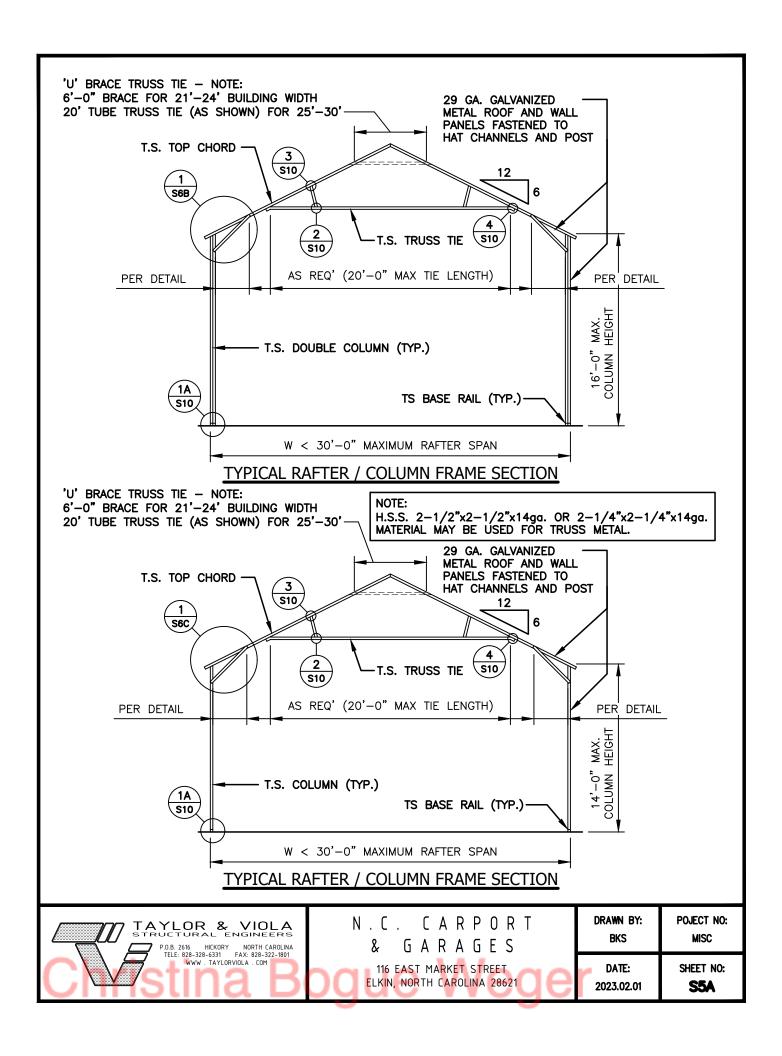
T.S. COLUMN (TYP.)

1A

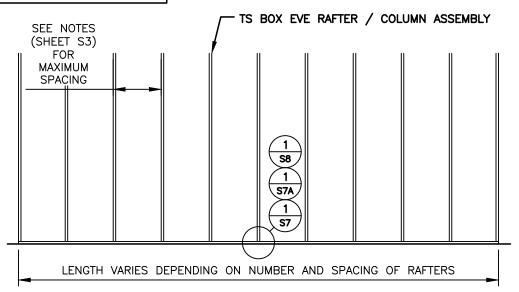
S10,

14'-0" COLUMN F



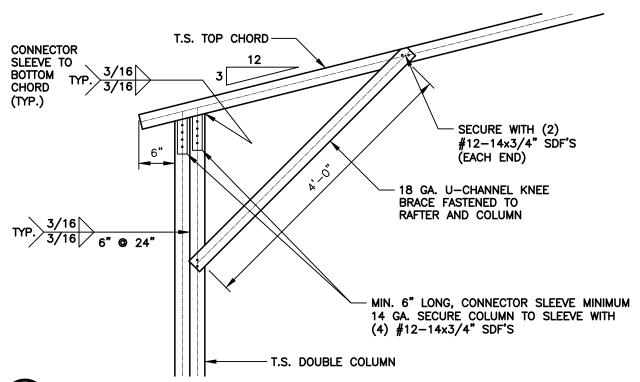


NOTE: H.S.S. 2-1/2"x2-1/2"x14ga. OR 2-1/4"x2-1/4"x14ga. MATERIAL MAY BE USED FOR TRUSS METAL.



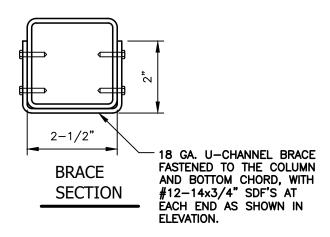
TYPICAL RAFTER / COLUMN SIDE FRAME SECTION



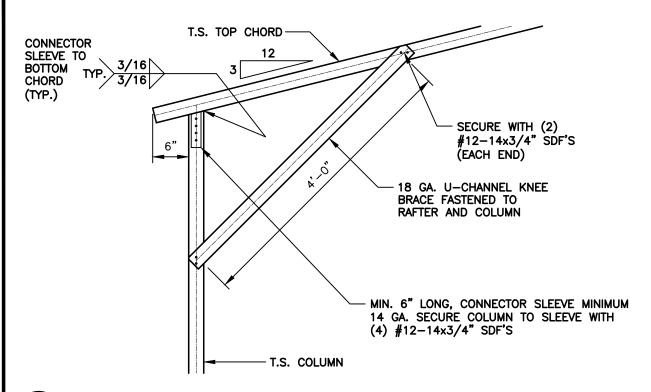


BOX EAVE / CORNER POST CONNECTION DETAIL FOR HEIGHTS 14'-1" < TO <16'-0"

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

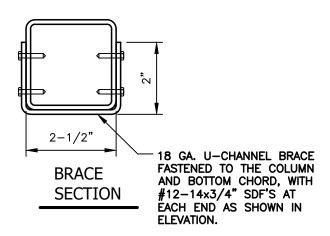


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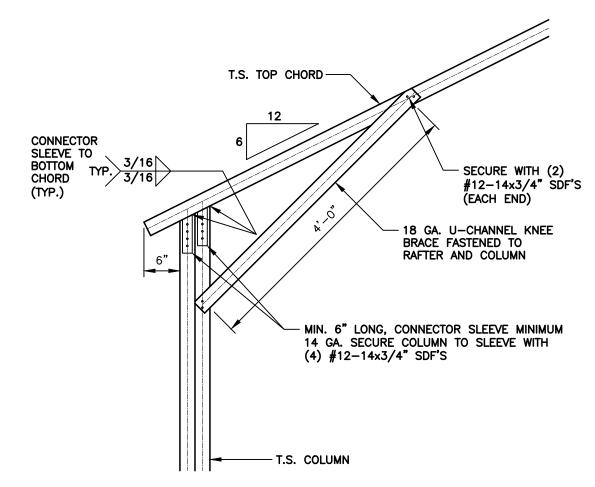


BOX EAVE / CORNER POST CONNECTION DETAIL FOR HEIGHTS < 14'-0"

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

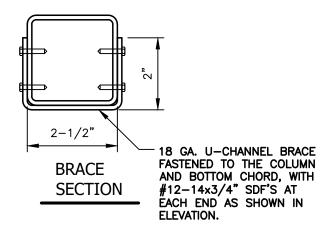






1 BOX EAVE / CORNER POST CONNECTION DETAIL FOR HEIGHTS 14'-1" < TO <16'-0"

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



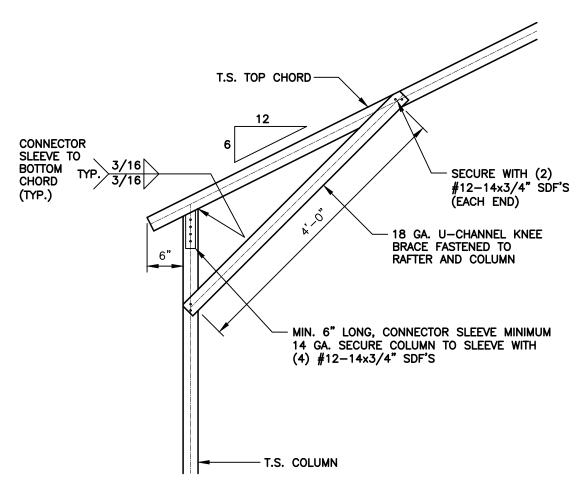


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& GARAGES

116 EAST MARKET STREET
ELKIN, NORTH CAROLINA 28621

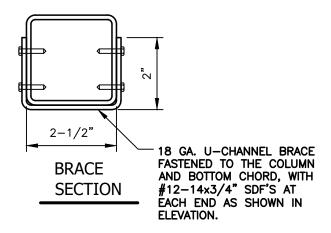
DRAWN BY:	POJECT NO:
BKS	MISC
DATE:	SHEET NO:
2023.02.01	S6B



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

S6C

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



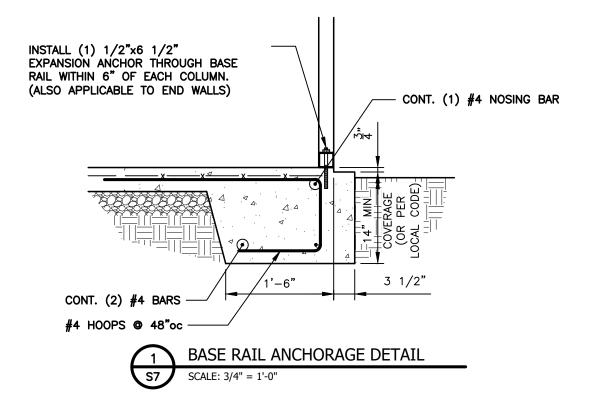


N.C. CARPORT & GARAGES

116 EAST MARKET STREET ELKIN, NORTH CAROLINA 28621

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BKS	MISC
DATE:	SHEET NO:
2023.02.01	S6C

CONCRETE BASE RAIL ANCHORAGE



GENERAL NOTES:

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

CONCRETE:

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

COVER OVER REINFORCING STEEL:

FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318:

3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH AND WEATHER AND 1-1/2" ELSEWHERE.

REINFORCING STEEL:

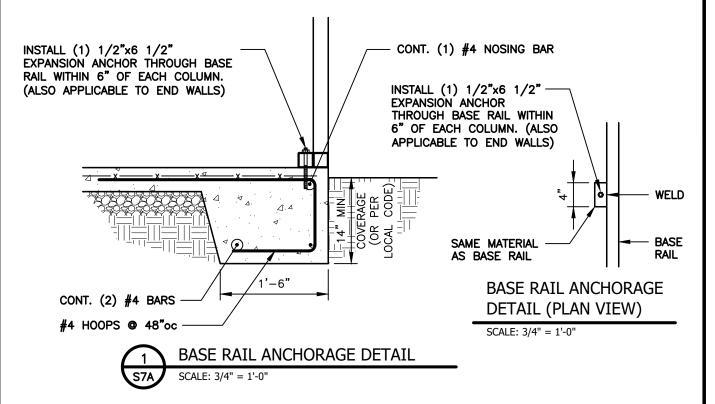
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

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

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

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CONCRETE BASE RAIL ANCHORAGE



GENERAL NOTES:

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

CONCRETE:

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

COVER OVER REINFORCING STEEL:

FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318:

3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH AND WEATHER AND 1-1/2" ELSEWHERE.

REINFORCING STEEL:

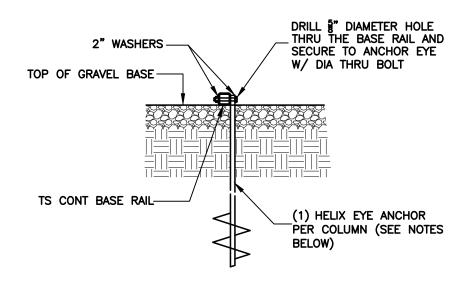
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

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

- 1. REINFORCEMENT IS BENT COLD.
- 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 S8 SCALE: 3/4" = 1'-0"

HELIX EMBEDMENT INFORMATION:
FOR VERY DENSE OR CEMETED SANDS, COARSE
GRAVEL, COBBLES, CALICHE, PRELOADED SILTS
AND CLAYS, USE MIN (2) 4" HELICES WITH
MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX
WITH 50" EMBEDMENT

FOR CORAL, USE MIN (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH 50" EMBEDMENT

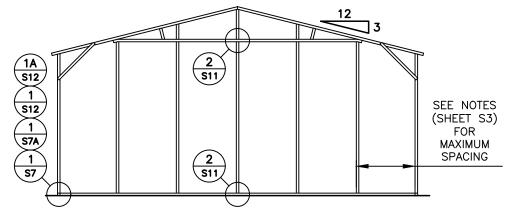
FOR MED DENSE COARSE SANDS, SANDY GRAVEL, VERY STIFF SILTS, AND CLAYS, USE MIN (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH 50" EMBEDMENT

FOR LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS, USE MIN (2) 6" HELICES WITH MINIMUM 50" EMBEDMENT

FOR VERY LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS AND ALLUVIAL FILL, USE MIN (2) 8" HELICES WITH MINIMUM 60" EMBEDMENT

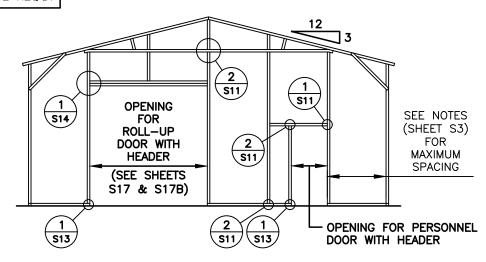
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BOX EVE RAFTER END WALL OPENINGS



TYPICAL BOX EVE RAFTER / END WALL COLUMN FRAME SECTION

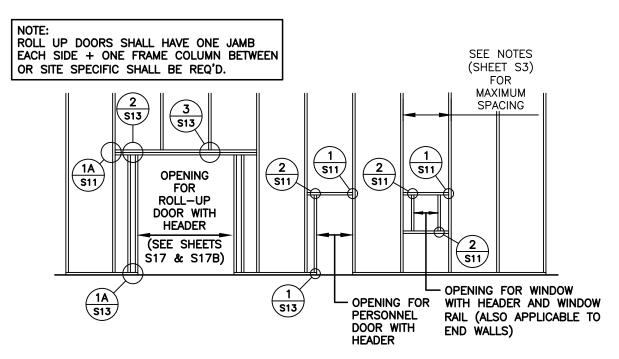
NOTE:
ROLL UP DOORS SHALL
HAVE ONE JAMB EACH
SIDE + ONE FRAME
COLUMN BETWEEN OR SITE
SPECIFIC SHALL BE REQ'D.



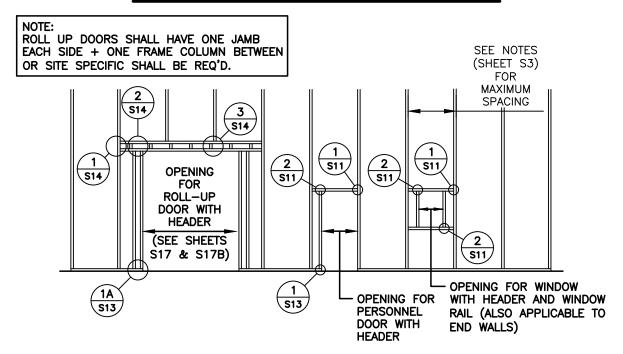
TYPICAL BOX EVE RAFTER END WALL OPENINGS FRAMING SECTION

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BOX EVE RAFTER END WALL AND SIDE WALL OPENINGS

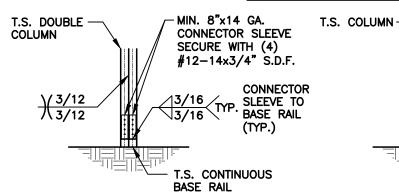


TYPICAL END WALL OPENING FRAMING SECTION



TYPICAL SIDE WALL OPENING FRAMING SECTION

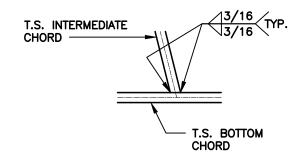
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POST / BASE RAIL CONNECTION DETAIL SCALE: 1/2" = 1'-0"

T.S. CONTINUOUS BASE RAIL POST / BASE RAIL CONNECTION DETAIL SCALE: 1/2" = 1'-0"

T.S. TOP CHORD



INTERMEDIATE CHORD TO BOTTOM CHORD CONNECTION DETAIL

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

S10

S10

T.S. INTERMEDIATE **CHORD** 3/16

MIN. 8"x14 GA.

CONNECTOR SLEEVE

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

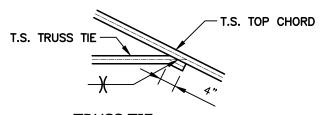
3/16 TYP. SLEEVE TO BASE RAIL

CONNECTOR

(TYP.)

INTERMEDIATE CHORD TO TOP CHORD CONNECTION DETAIL

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



TRUSS TIE CONNECTION DETAIL

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



N.C. CARPORT GARAGES 116 EAST MARKET STREET

BKS DATE: ELKIN, NORTH CAROLINA 28621 2023.02.01

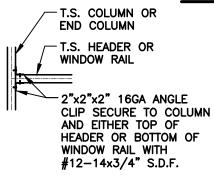
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S10



COLUMN OR WINDOW RAIL / WALL GIRT TO POST CONNECTION DETAIL

S11

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

T.S. COLUMN OR END COLUMN

T.S. DOUBLE HEADER

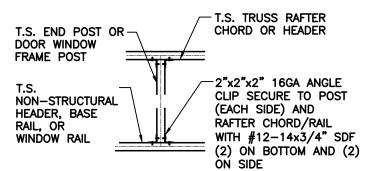
(3/12
3/12

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 / 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"

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

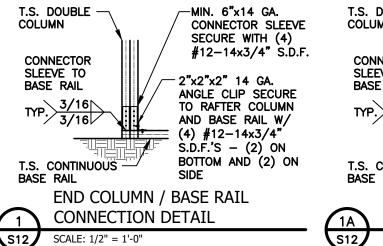
N . C . C A R P O R T & G A R A G E S

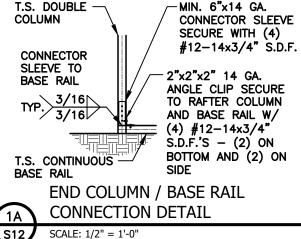
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DATE: SHEET NO:

S11

2023.02.01







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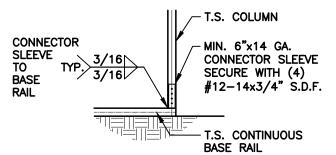
BKS MISC

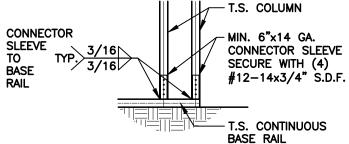
DATE: SHEET NO:
2023.02.01 \$12

1A

S13

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

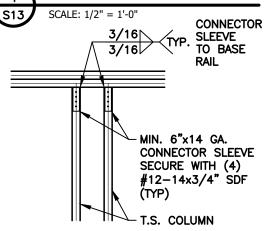


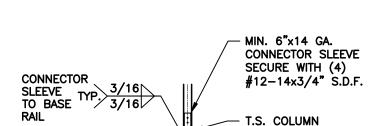


COLUMN / BASE RAIL

CONNECTION DETAIL

COLUMN / BASE RAIL CONNECTION DETAIL

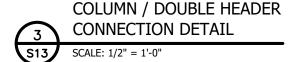




SCALE: 1/2" = 1'-0"

DOUBLE HEADER / COLUMN CONNECTION DETAIL

S13 SCALE: 1/2" = 1'-0"



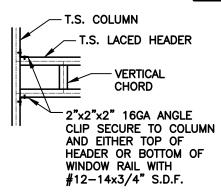


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T.S. DOUBLE HEADER



COLUMN / LACED HEADER CONNECTION DETAIL SCALE: 1/2" = 1'-0" T.S. LACED HEADER

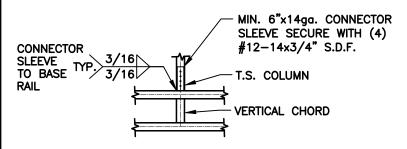
VERTICAL CHORD

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"

S14

S14

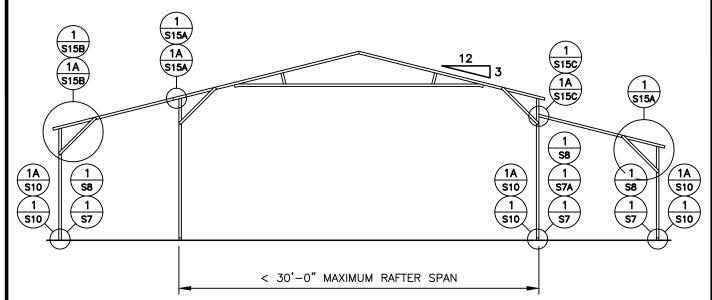


N . C . C A R P O R T & G A R A G E S

116 EAST MARKET STREET ELKIN, NORTH CAROLINA 28621

Drawn by:	POJECT NO:
BKS	MISC
DATE: 2023.02.01	SHEET NO:

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

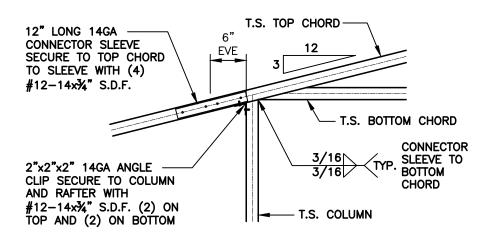
TAYLOR & VIOLA
P.O.B. 2616 HICKORY NORTH CAROLINA TELE: 828–328–6331 FAX: 828–322-1801 WWW Y TAYLORVIOLA . COM
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116 EAST MA	RKET STREET
ELKIN, NORTH (AROLINA 28621

Drawn by:	POJECT NO:
BKS	MISC
DATE: 2023.02.01	SHEET NO: S15

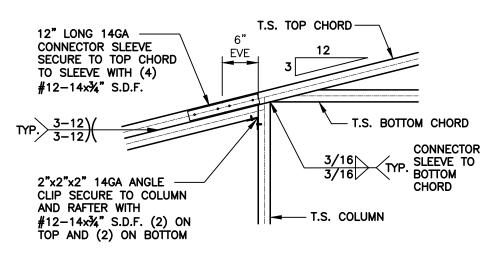
LEAN-TO CONNECTION DETAILS



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

1 S15A

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



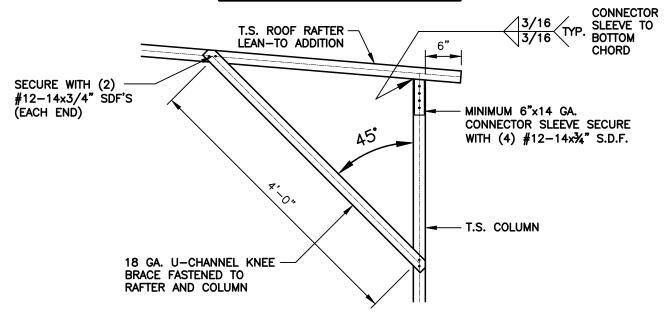
ROOF EXTENSION RAFTER / CORNER POST DETAIL FOR WIDTHS < 15'-0"

1A S15A

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

TAYLOR & VIOLA STRUCTURAL ENGINEERS P.O.B. 2616 HICKORY NORTH CAROLINA	N.C. CARPORT	DRAWN BY:	POJECT NO:
	& GARAGES	BKS	MISC
P.O.B. 2616 HICKORY NORTH CAROLINA TELE: 828-328-6331 FAX: 828-322-1801 WWW . TAYLORVIOLA . COM	116 EAST MARKET STREET ELKIN, NORTH CAROLINA 28621	DATE: 2023.02.01	SHEET NO: S15A

LEAN-TO CONNECTION DETAILS



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

SCALE: 3/4" = 1'-0" 3/16 TYP. CONNECTOR SLEEVE TO T.S. ROOF RAFTER 3/16 воттом LEAN-TO ADDITION **CHORD** SECURE WITH (2) — #12-14x3/4" SDF'S (EACH END) MINIMUM 6"x14 GA. CONNECTOR SLEEVE SECURE 45° WITH (4) #12-14x3/4" S.D.F. ¥. T.S. COLUMN 18 GA. U-CHANNEL KNEE BRACE FASTENED TO RAFTER AND COLUMN

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

1A S15B

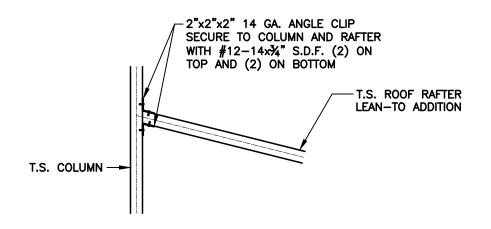
SCALE: 3/4" = 1'-0"

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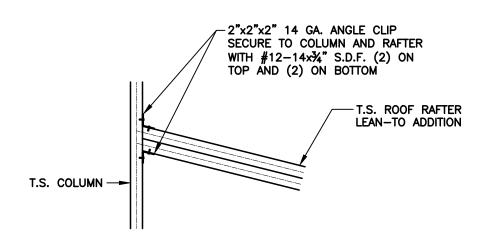
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Drawn by:	POJECT NO:
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DATE:	SHEET NO:
2023.02.01	S15B

LEAN-TO CONNECTION DETAILS



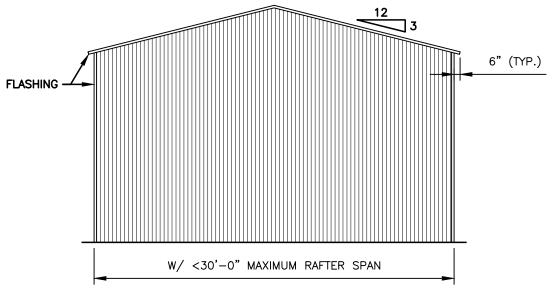
LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS < 12'-0" SCALE: 3/4" = 1'-0"



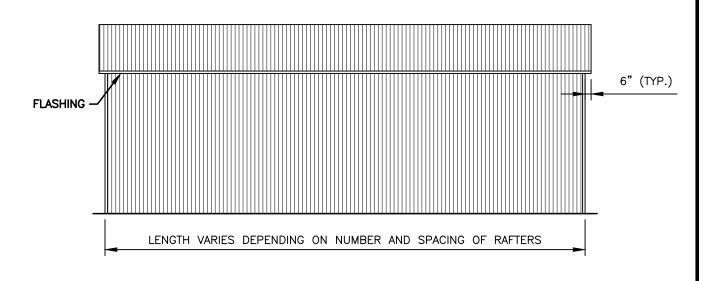




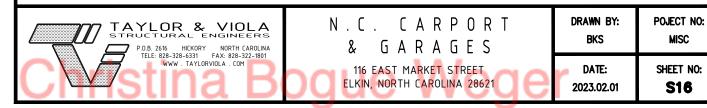
VERTICAL ROOF / SIDING OPTION



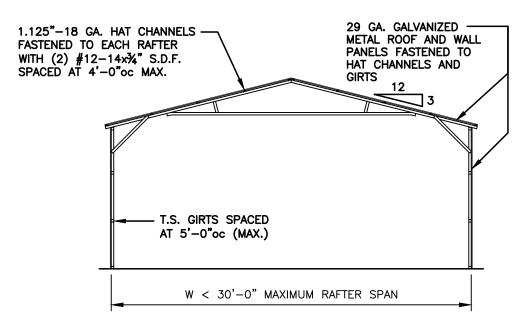
TYPICAL END ELEVATION - VERTICAL ROOF / SIDING



TYPICAL SIDE ELEVATION - VERTICAL ROOF / SIDING



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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N.C. CARPORT & GARAGES

116 EAST MARKET STREET ELKIN, NORTH CAROLINA 28621

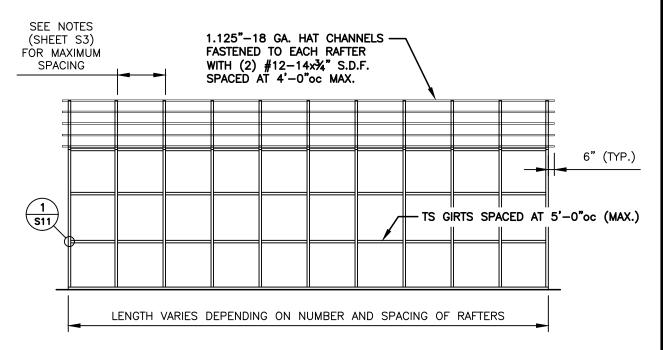
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POJECT NO: MISC

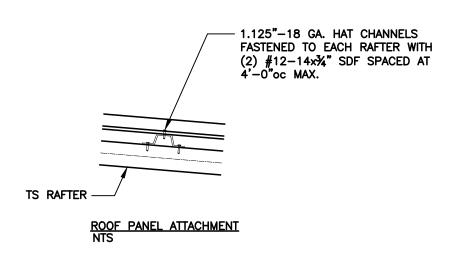
DATE: 2023.02.01

SHEET NO: S16A

VERTICAL ROOF / SIDING OPTION

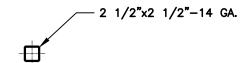


TYPICAL SIDE FRAMING SECTION VERTICAL ROOF / SIDING OPTION

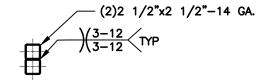




SIDE WALL HEADER OPTIONS



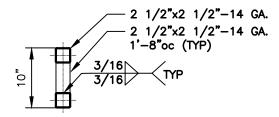
HEADER DETAIL FOR DOOR OPENINGS < 4'-0" NTS



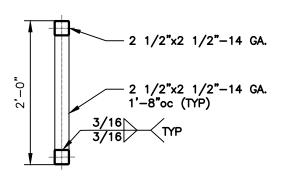
HEADER DETAIL FOR DOOR

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"

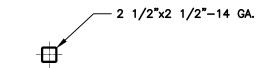
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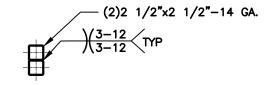
116 EAST MARKE	T STREET
ELKIN, NORTH CARO	DLINA 28621

DRAWN BY:	POJECT NO:
BKS	MISC
DATE: 2023.02.01	SHEET NO:

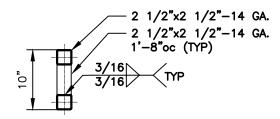
END WALL HEADER OPTIONS



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



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



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

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116 EAST MARKET STREET
ELKIN, NORTH CAROLINA 28621

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SHEET NO: S17A