



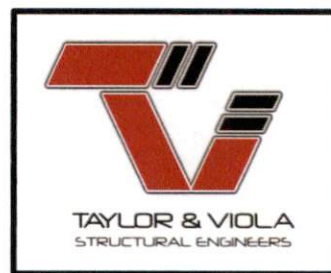
ENCLOSED GABLE END BUILDING

MAXIMUM 30'-0" WIDE X 16'-0" EAVE HEIGHT WITH BOX FRAME / (UP TO) 145 M.P.H. WIND ZONE - 35 P.S.F. SNOW LOAD

FOR:

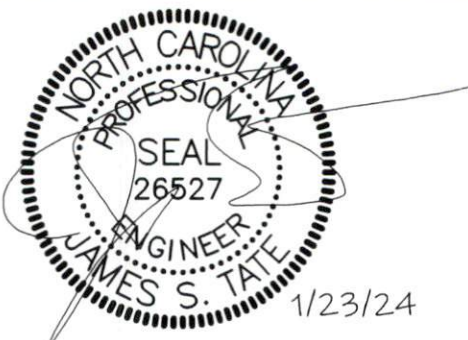
NC CARPORTS & GARAGE
116 EAST MARKET STREET
ELKIN, NORTH CAROLINA
TELE: 336-368-0668

ISSUE DATE: 01.23.24



Bobby Johnson

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)



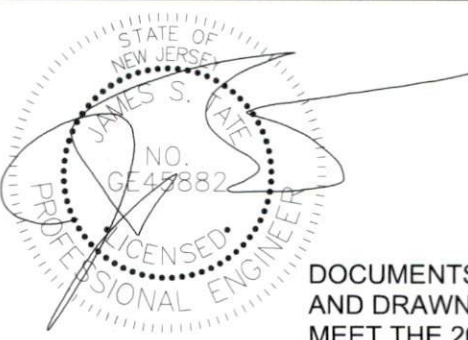
DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2012 IBC



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)



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

NC CARPORTS & GARAGES
16 EAST MARKET STREET
ELKIN, NORTH CAROLINA 28621
TELE: 336-368-0668

DRAWN BY: BKS
DATE: 01.23.24

PROJECT NO: MISC
SHEET NO: S1

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1/23/24

DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 IBC



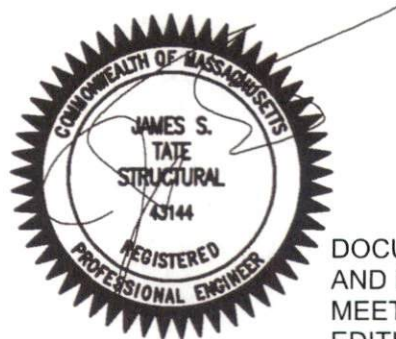
1/23/24

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



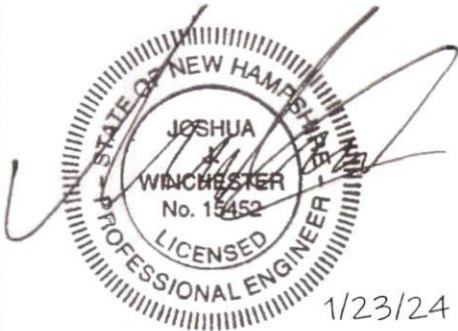
1/23/24

DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 IBC



1/23/24

DOCUMENTS DESIGNED AND DRAWN TO MEET THE NINTH EDITION OF THE MA STATE BUILDING CODE



1/23/24

DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 IBC



1/23/24

DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2017 IBC



1/23/24

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

TAYLOR & VIOLA
 STRUCTURAL ENGINEERS
 16 EAST MARKET STREET
 ELKIN, NORTH CAROLINA 28621
 TEL: 336-368-0668
 FAX: 336-368-0601
 WWW.TAYLORVIOLA.COM

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

NC CARPORTS
 DAMAGE
 16 EAST MARKET STREET
 ELKIN, NORTH CAROLINA 28621
 TELE: 336-368-0668

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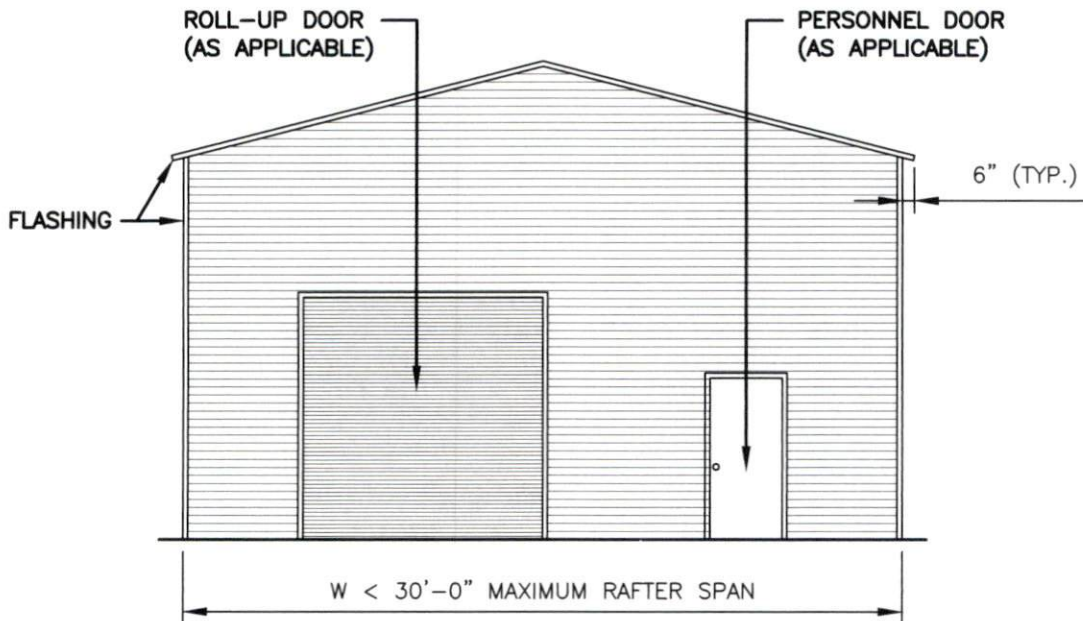
SHEET INDEX

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 (LACED COLUMN)
S6C	COLUMN CONNECTION DETAILS (DOUBLE AND SINGLE COLUMN)
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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
S8A	BASE RAIL ANCHORAGE
S9	TYPICAL END WALL OPENINGS FRAMING SECTIONS
S9A	TYPICAL SIDE WALL OPENINGS FRAMING SECTIONS
S10	CONNECTION DETAILS
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S16A	VERTICAL ROOF / SIDING OPTION END SECTION
S16B	VERTICAL ROOF / SIDING OPTION SIDE SECTION
S17	SIDE WALL HEADER OPTIONS
S17A	END WALL HEADER OPTIONS

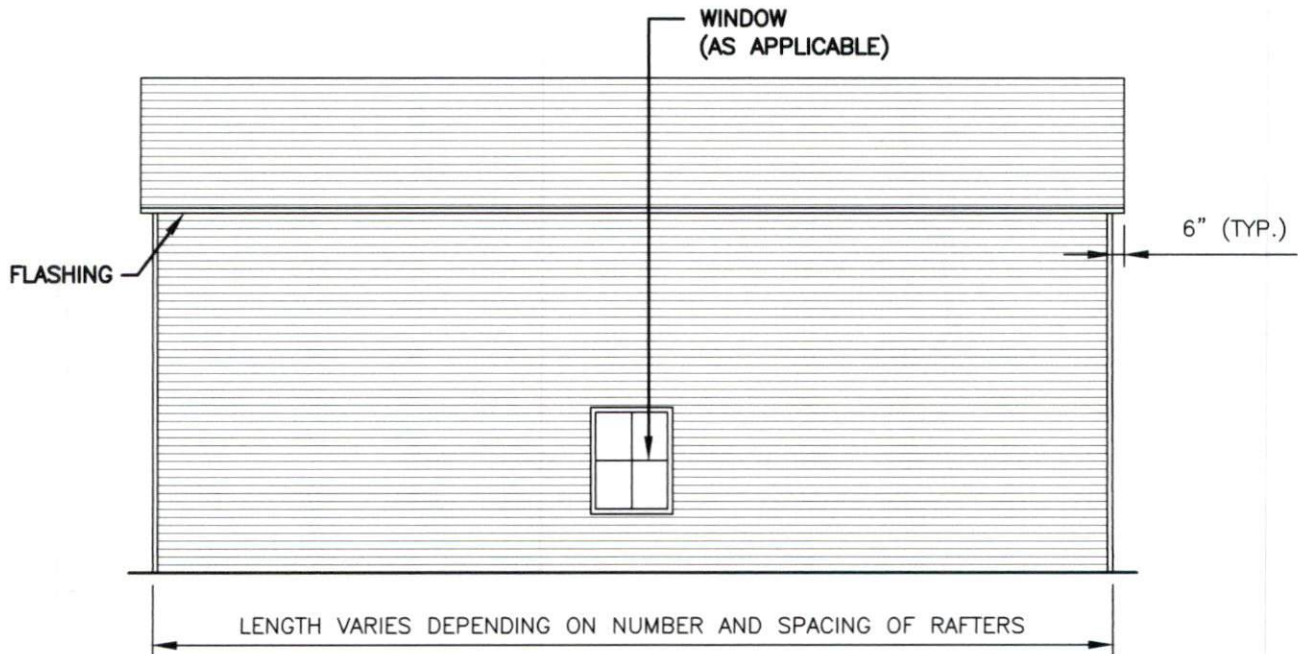
 <p style="font-size: small;">TAYLOR & VIOLA STRUCTURAL ENGINEERS 1806 S. KERRY, NORTH CAROLINA 27041-3328 FAX: 336-322-3001 WWW.TAYLORVIOLA.COM</p> <p style="font-size: small;">CMT Associates, PLLC 211 Stone Drive, Pilot Mountain, NC 27041 Telephone: (336) 399-6277</p>	<p style="font-size: x-large; color: red; font-weight: bold;">Bobby Johnson</p> <p style="font-size: small;">NC CARPORTS & GARAGES 16 EAST MARKET STREET ELKIN, NORTH CAROLINA 28621 TELE: 336-368-0668</p>	DRAWN BY:	PROJECT NO:
		BKS	MISC
		DATE:	SHEET NO:
		01.23.24	S2

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BOX EVE FRAME RAFTER STRUCTURE



TYPICAL END ELEVATION

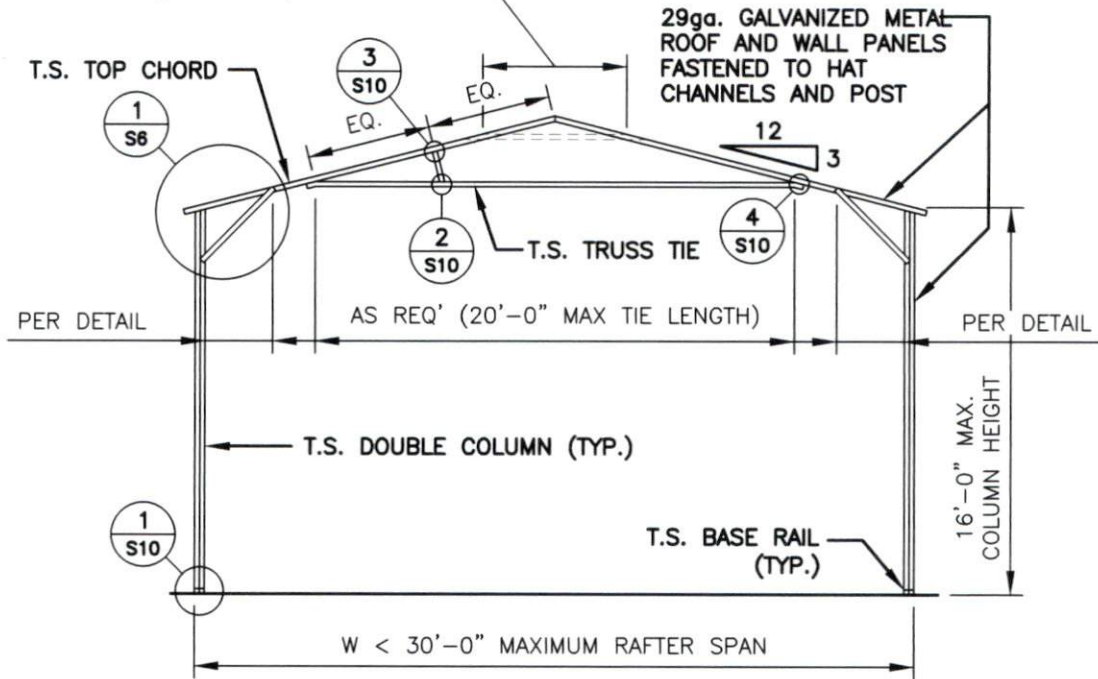


TYPICAL SIDE ELEVATION

 <p>TAYLOR & VIOLA STRUCTURAL ENGINEERS 211 Stone Drive, Pilot Mountain, NC 27041 Telephone: (336) 399-6277</p>	<p>NC CARPORTS & GARAGES</p> <p>16 EAST MARKET STREET ELKIN, NORTH CAROLINA 28621 TELE: 336-368-0668</p>	DRAWN BY:	PROJECT NO:
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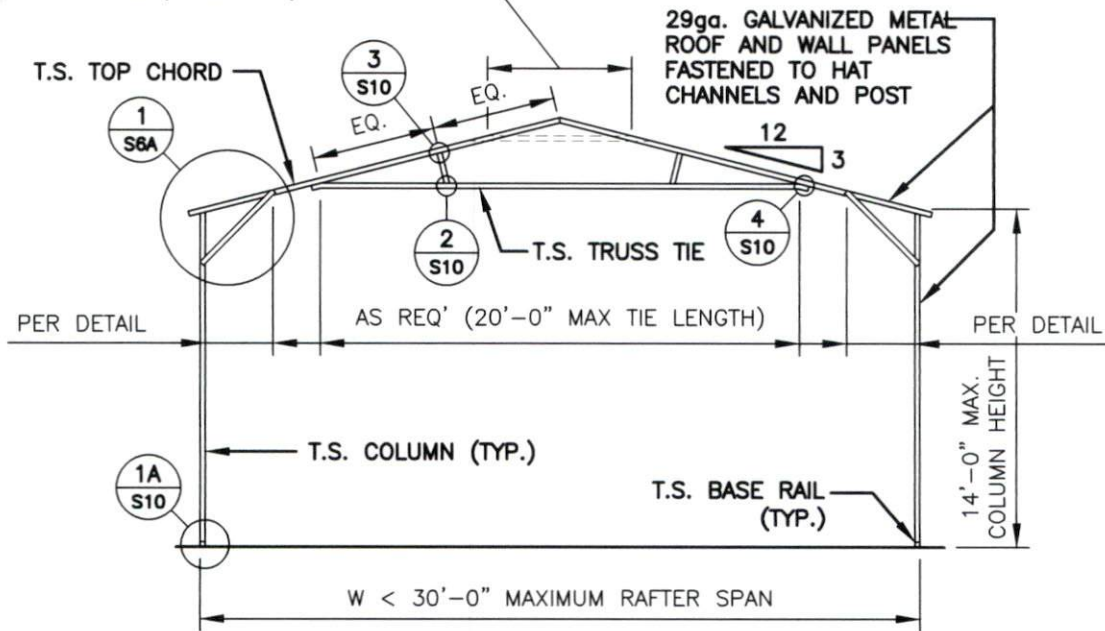
'U' BRACE TRUSS TIE - NOTE:
 6'-0" BRACE FOR 21'-24' BUILDING WIDTH
 20' TUBE TRUSS TIE (AS SHOWN) FOR 25'-30'



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

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 STRUCTURAL ENGINEERS
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 Telephone: (336) 399-6277

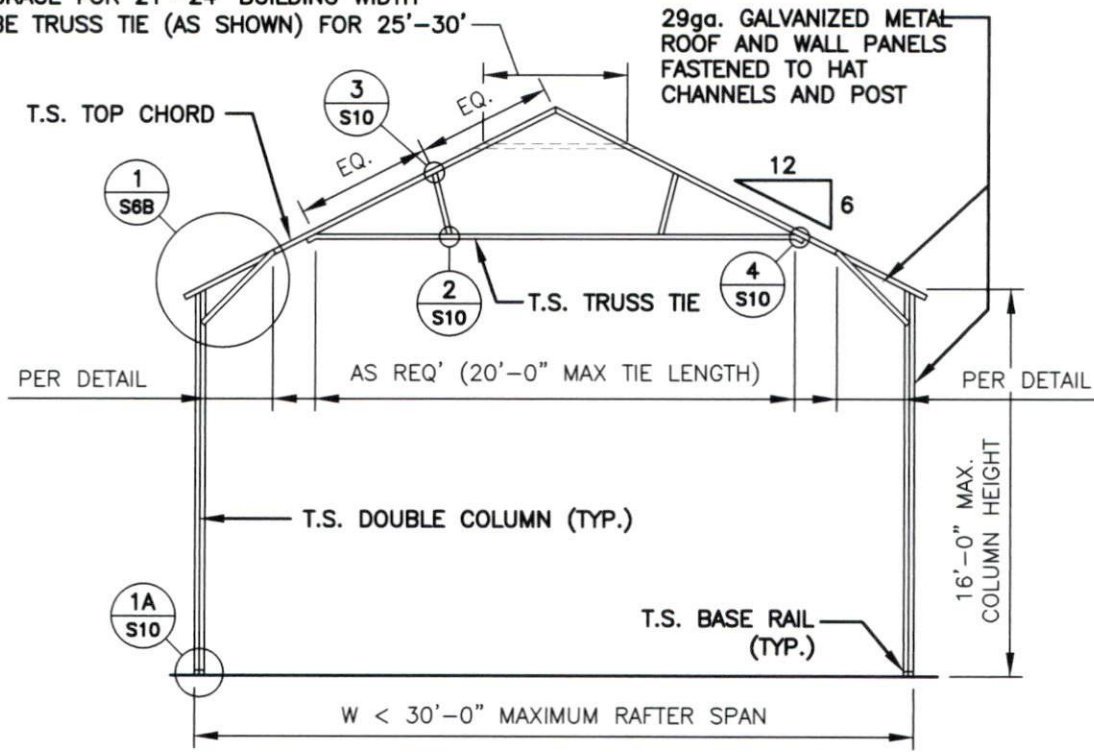
NC CARPORTS
 & DAMAGES
 16 EAST MARKET STREET
 ELKIN, NORTH CAROLINA 28621
 TELE: 336-368-0668

DRAWN BY:
 BKS
 DATE:
 01.23.24

PROJECT NO:
 MISC
 SHEET NO:
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NOTE: THESE DRAWINGS ARE VALID FOR (1) CALENDAR YEAR AFTER THE ISSUE DATE LISTED ON THIS SHEET.

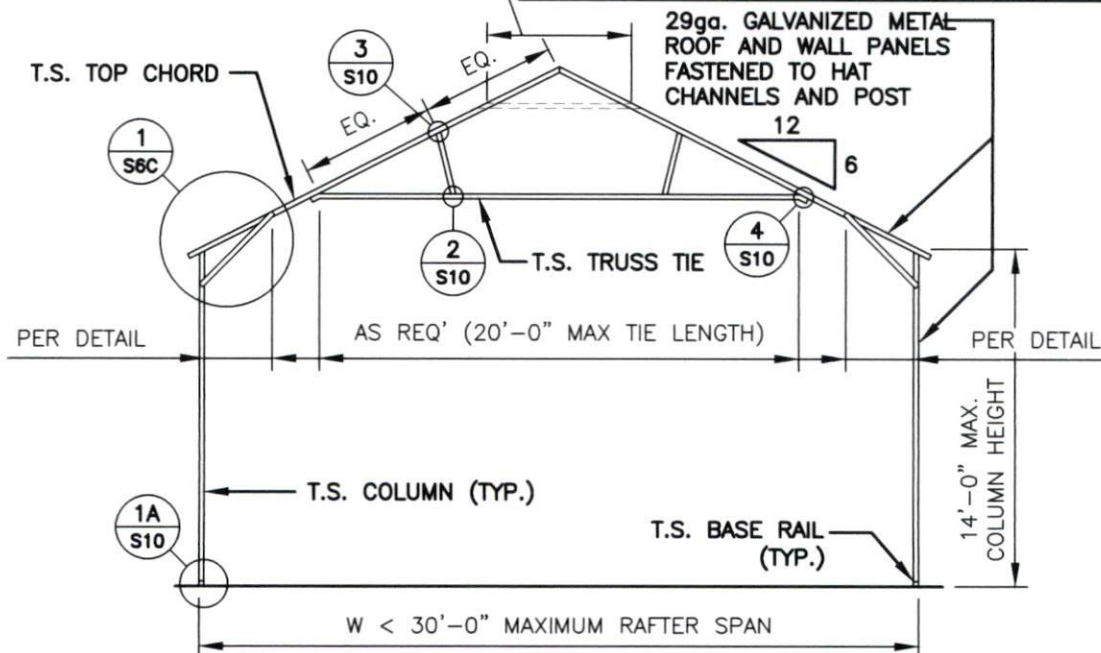
'U' BRACE TRUSS TIE - NOTE:
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 20' TUBE TRUSS TIE (AS SHOWN) FOR 25'-30'



TYPICAL RAFTER / COLUMN FRAME SECTION

'U' BRACE TRUSS TIE - NOTE:
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 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

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 STRUCTURAL ENGINEERS
 211 Stone Drive, Pilot Mountain, NC 27041
 Telephone: (336) 399-6277

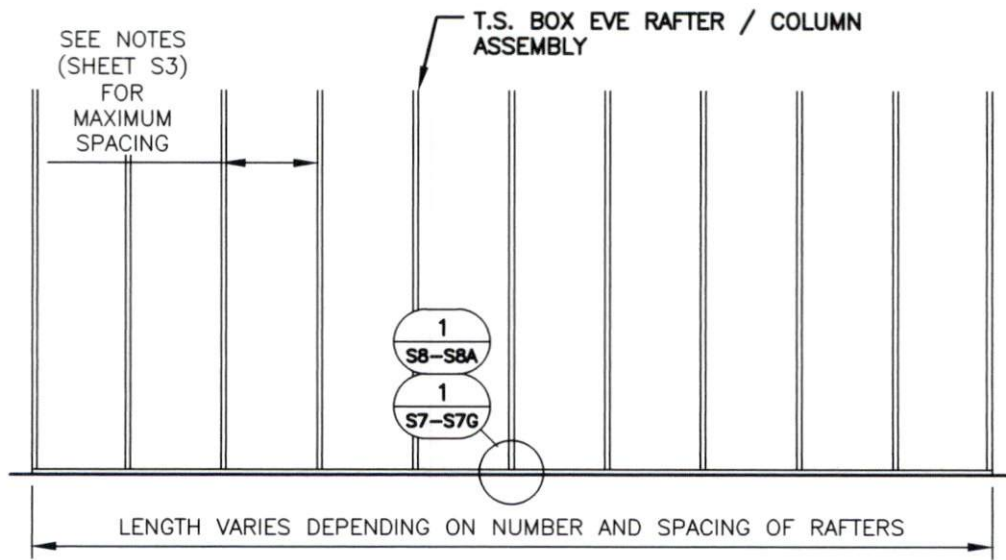
NC CARPORTS & GARAGES
 116 EAST MARKET STREET
 ELKIN, NORTH CAROLINA 28621
 TELE: 336-368-0668

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BKS
 DATE:
 01.23.24


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 MISC
 SHEET NO:
S5A

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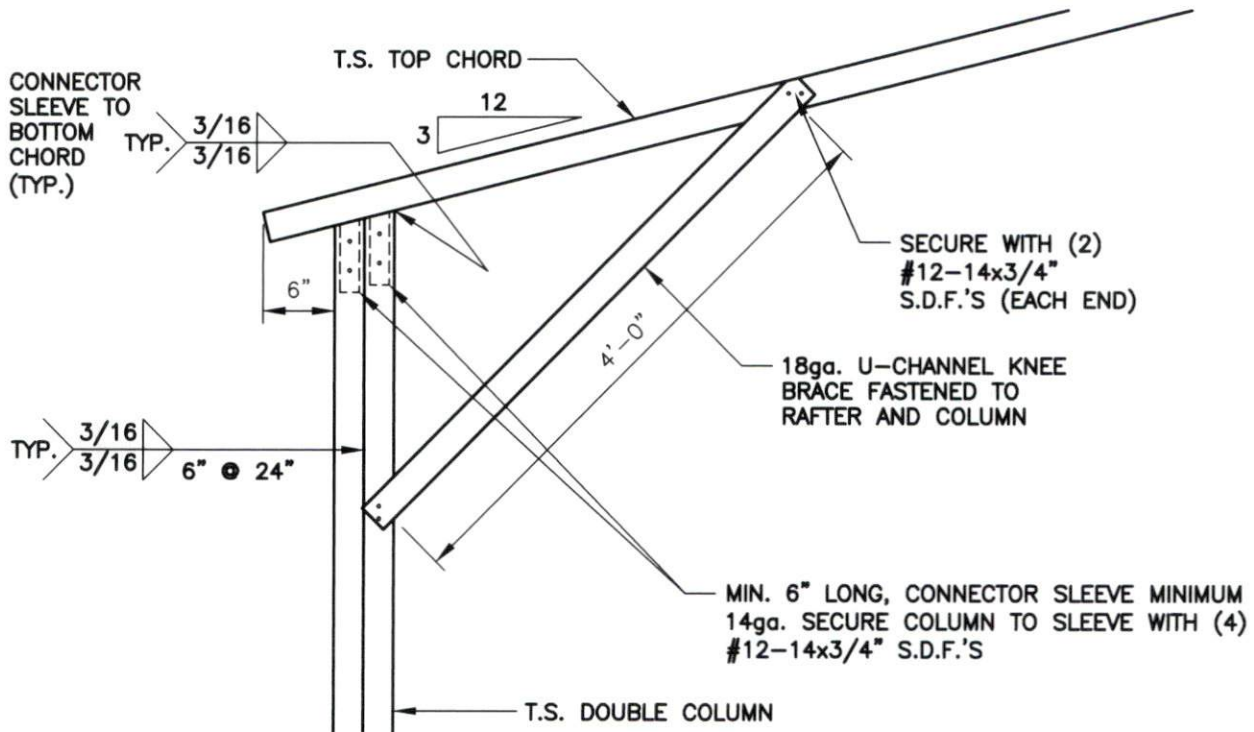
NOTE:
H.S.S. 2-1/2"x2-1/2"x14ga. OR
2-1/4"x2-1/4"x14ga. MATERIAL
MAY BE USED FOR TRUSS METAL.



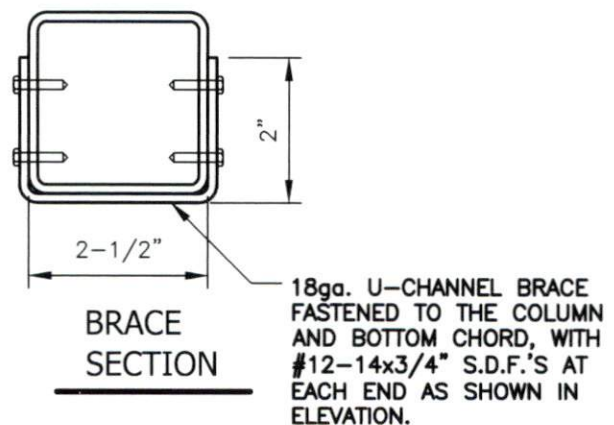
TYPICAL RAFTER / COLUMN SIDE FRAME SECTION

 <p>TAYLOR & VIOLA STRUCTURAL ENGINEERS 211 Stone Drive, Pilot Mountain, NC 27041 Telephone: (336) 399-6277</p>	<p>NC CARPORTS & GARAGES</p> <p>16 EAST MARKET STREET ELKIN, NORTH CAROLINA 28621 TELE: 336-368-0668</p>	<p>DRAWN BY: BKS</p>	<p>PROJECT NO: MISC</p>
		<p>DATE: 01.23.24</p>	<p>SHEET NO: S5B</p>

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1 BOX EAVE / CORNER POST CONNECTION DETAIL FOR HEIGHT.S. 14'-1" < TO
 S6 SCALE: 3/4" = 1'-0"



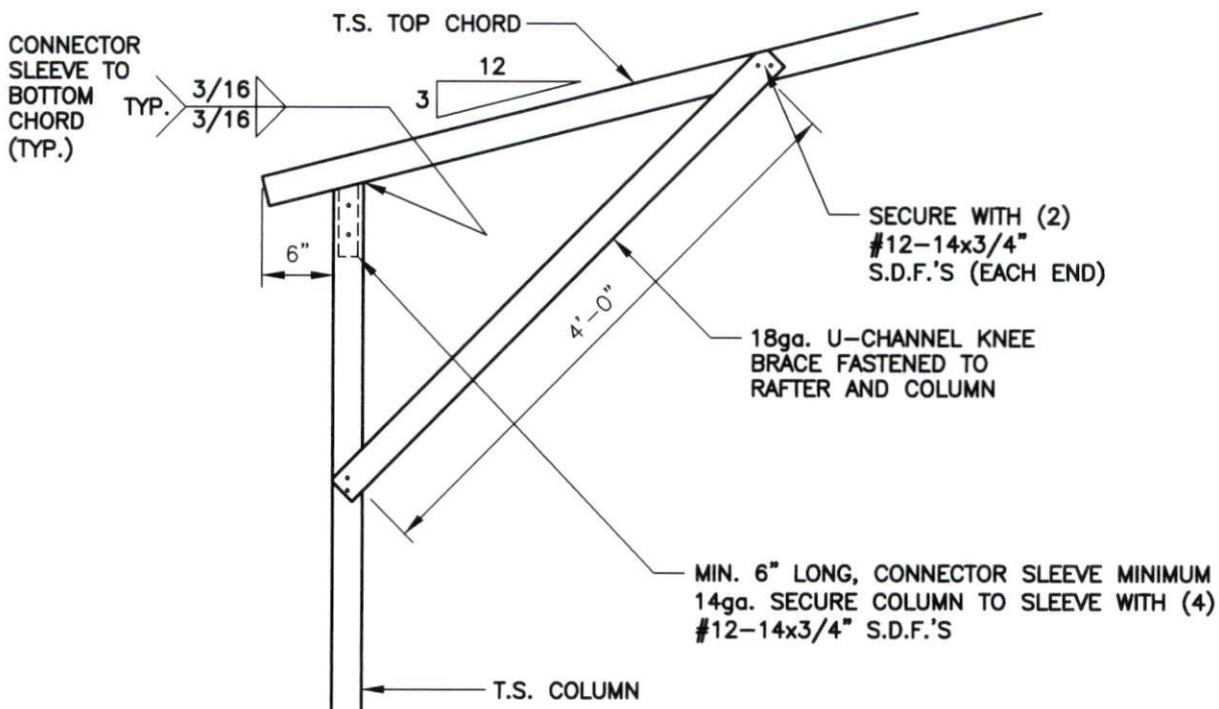
TAYLOR & VIOLA
 STRUCTURAL ENGINEERS
 211 Stone Drive, Pilot Mountain, NC 27041
 Telephone: (336) 399-6277

NC CARPORTS
 & GARAGES
 16 EAST MARKET STREET
 ELKIN, NORTH CAROLINA 28621
 TELE: 336-368-0668

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 BKS
 DATE:
 01.23.24

PROJECT NO:
 MISC
 SHEET NO:
S8

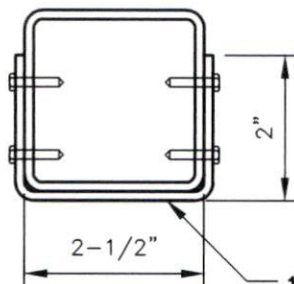
NOTE: THESE DRAWINGS ARE VALID FOR (1) CALENDAR YEAR AFTER THE ISSUE DATE LISTED ON THIS SHEET.



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

S6A

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

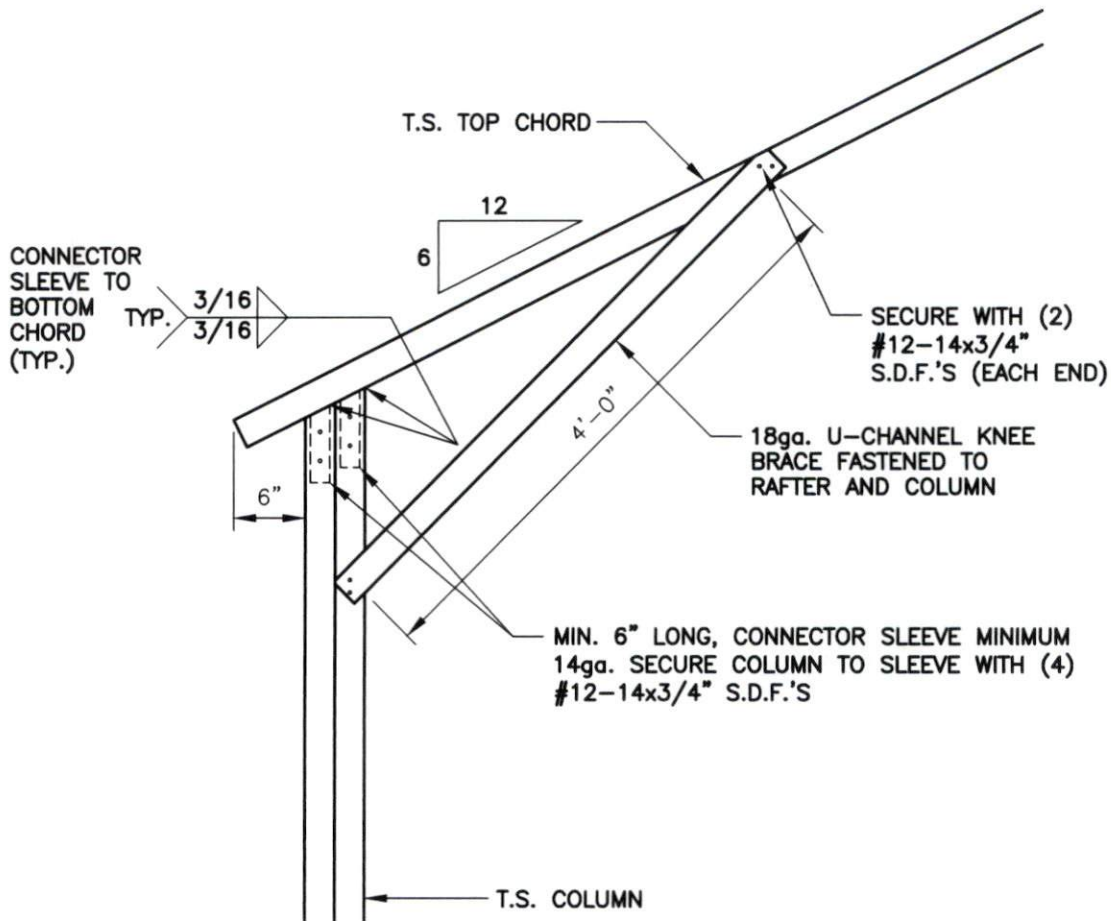
NC CARPORTS
& GARAGES
16 EAST MARKET STREET
ELKIN, NORTH CAROLINA 28621
TELE: 336-368-0668

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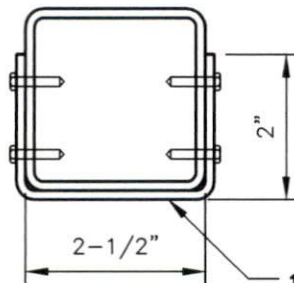
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DATE:
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SHEET NO:
S6A



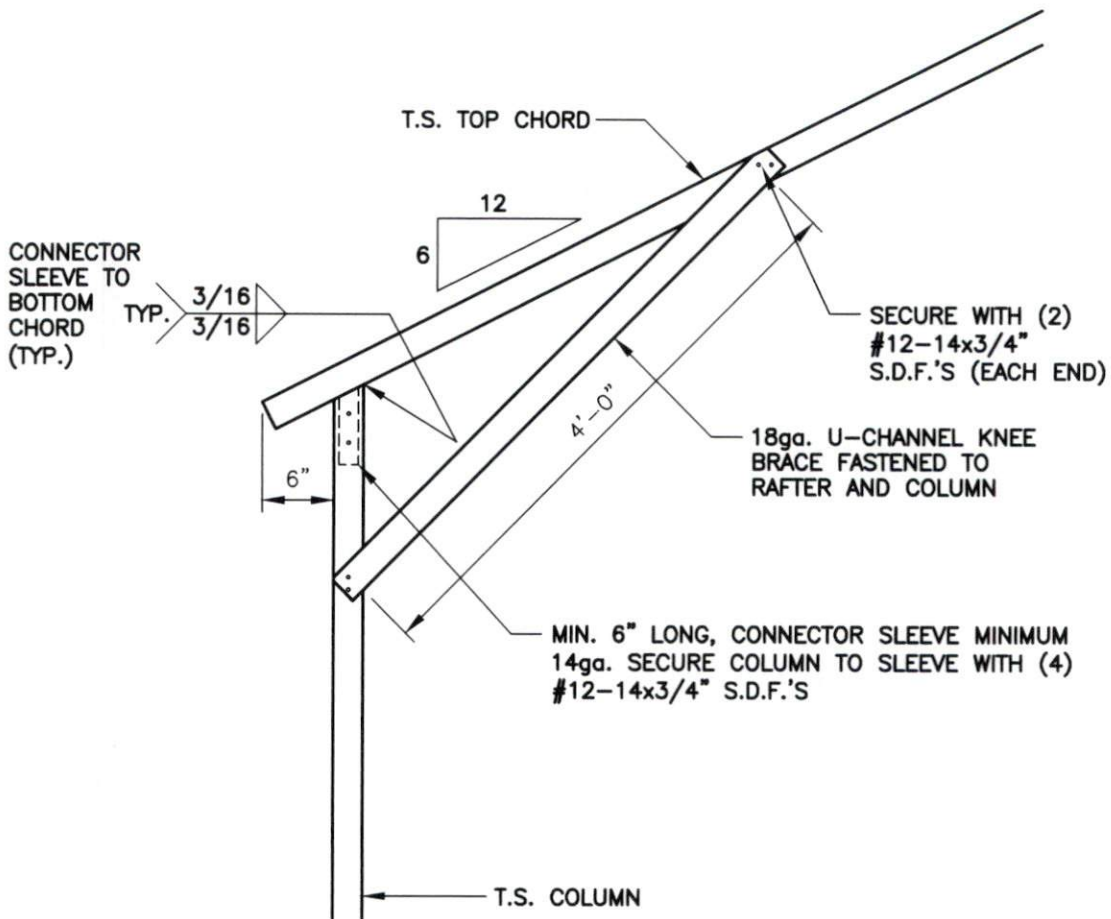
1 BOX EAVE / CORNER POST CONNECTION DETAIL FOR HEIGHT.S. 14'-1" < TO
 S6C $\frac{16'-0"}{16'-0"} = 1'-0"$



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.

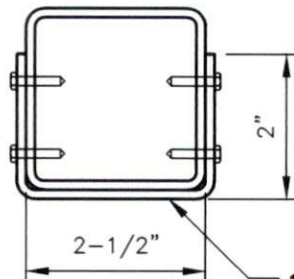
<p>TAYLOR & VIOLA STRUCTURAL ENGINEERS 16 EAST MARKET STREET ELKIN, NORTH CAROLINA 28621 TEL: 336-368-0668 FAX: 336-368-3220 WWW.TAYLORANDVIOLA.COM</p> <p>CMT Associates, PLLC 211 Stone Drive, Pilot Mountain, NC 27041 Telephone: (336) 399-6277</p>	<p>NC CARPORTS & GARAGES</p> <p>16 EAST MARKET STREET ELKIN, NORTH CAROLINA 28621 TELE: 336-368-0668</p>	<p>DRAWN BY: BKS</p>	<p>PROJECT NO: MISC</p>
		<p>DATE: 01.23.24</p>	<p>SHEET NO: S6B</p>

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1 BOX EAVE / CORNER POST CONNECTION DETAIL FOR HEIGHT.S. < 14'-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
1000 W. HARRIS STREET, SUITE 300
KODOLY, NORTH CAROLINA 27041
PHONE: 336-328-3300 FAX: 336-322-2901
WWW.TAYLORVIOLA.COM

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

NC CARPORTS
& GARAGES
16 EAST MARKET STREET
ELKIN, NORTH CAROLINA 28621
TELE: 336-368-0668

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BKS

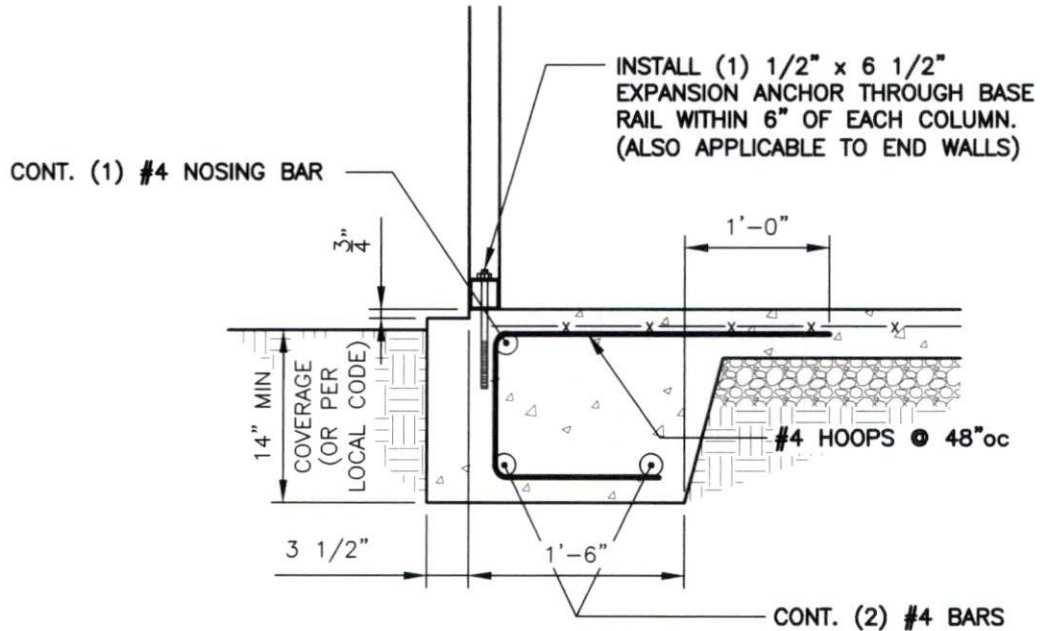
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SHEET NO:
S6C

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CONCRETE BASE RAIL ANCHORAGE



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.

TAYLOR & VIOLA
STRUCTURAL ENGINEERS
1601 W. MARKET STREET, SUITE 200
RANDOLPH, NORTH CAROLINA 28134
PHONE: 336-338-3280 FAX: 336-338-3281
WWW.TAYLORVIOLA.COM
CMT Associates, PLLC
211 Stone Drive, Pilot Mountain, NC 27041
Telephone: (336) 399-6277

NC CARPORTS

AND GARAGES

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

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SHEET NO:

S7

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CONCRETE BASE RAIL ANCHORAGE (NO SLAB)



1 BASE RAIL ANCHORAGE DETAIL
S7A 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:

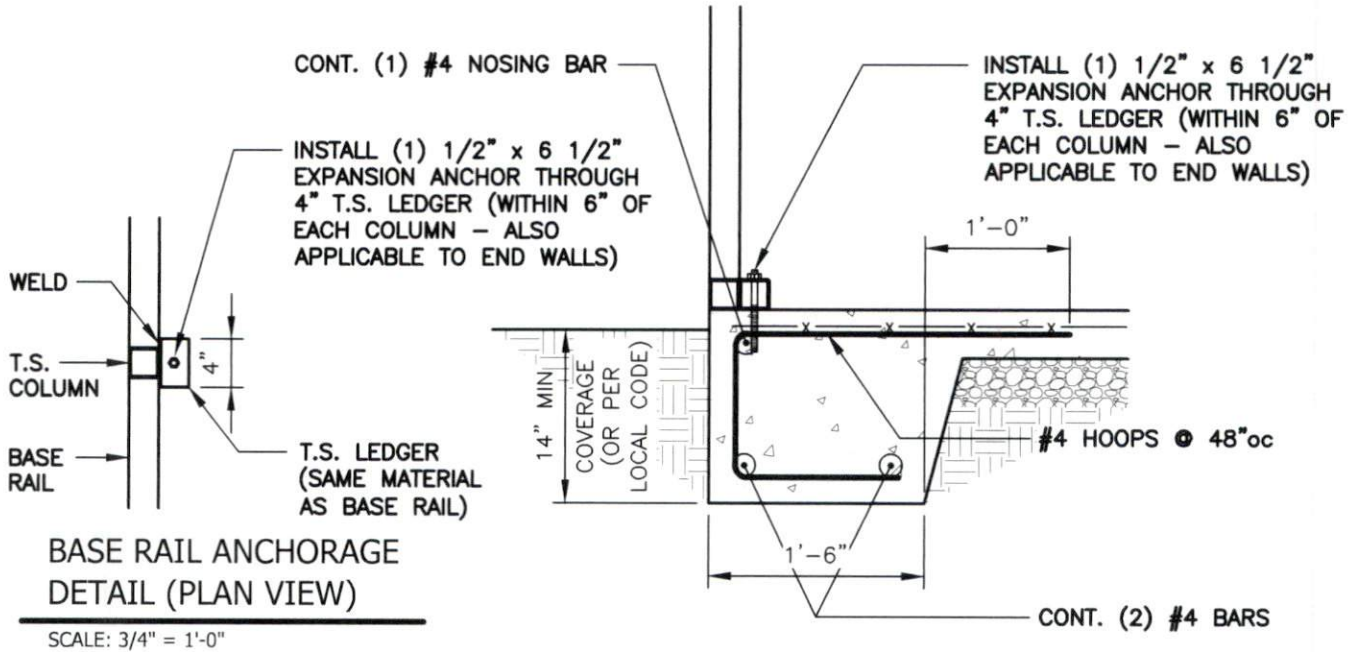
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

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

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

 <p>TAYLOR & VIOLA STRUCTURAL ENGINEERS 1101 W. 10TH STREET, SUITE 100 WILKINSON, NORTH CAROLINA 27691 TEL: 336-368-0668 FAX: 336-368-0668 WWW.TAYLORVIOLA.COM</p> <p>CMT Associates, PLLC 211 Stone Drive, Pilot Mountain, NC 27041 Telephone: (336) 399-6277</p>	<p>NC CARPORTS PAGE 3</p>	<p>DRAWN BY: BKS</p>	<p>PROJECT NO: MISC</p>
	<p>16 EAST MARKET STREET WILKINSON, NORTH CAROLINA 27691 TELE: 336-368-0668</p>	<p>DATE: 01.23.24</p>	<p>SHEET NO: S7A</p>

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:

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:

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TAYLOR & VIOLA
STRUCTURAL ENGINEERS
1000 W. HARRIS STREET, SUITE 300
RALEIGH, NORTH CAROLINA 27601
PHONE: (336) 328-3280 FAX: (336) 328-3281
WWW.TAYLORANDVIOLA.COM
CMT Associates, PLLC
211 Stone Drive, Pilot Mountain, NC 27041
Telephone: (336) 399-6277

NC CARPORTS
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16 EAST MARKET STREET
ELKIN, NORTH CAROLINA 28621
TELE: 336-368-0668

DRAWN BY:
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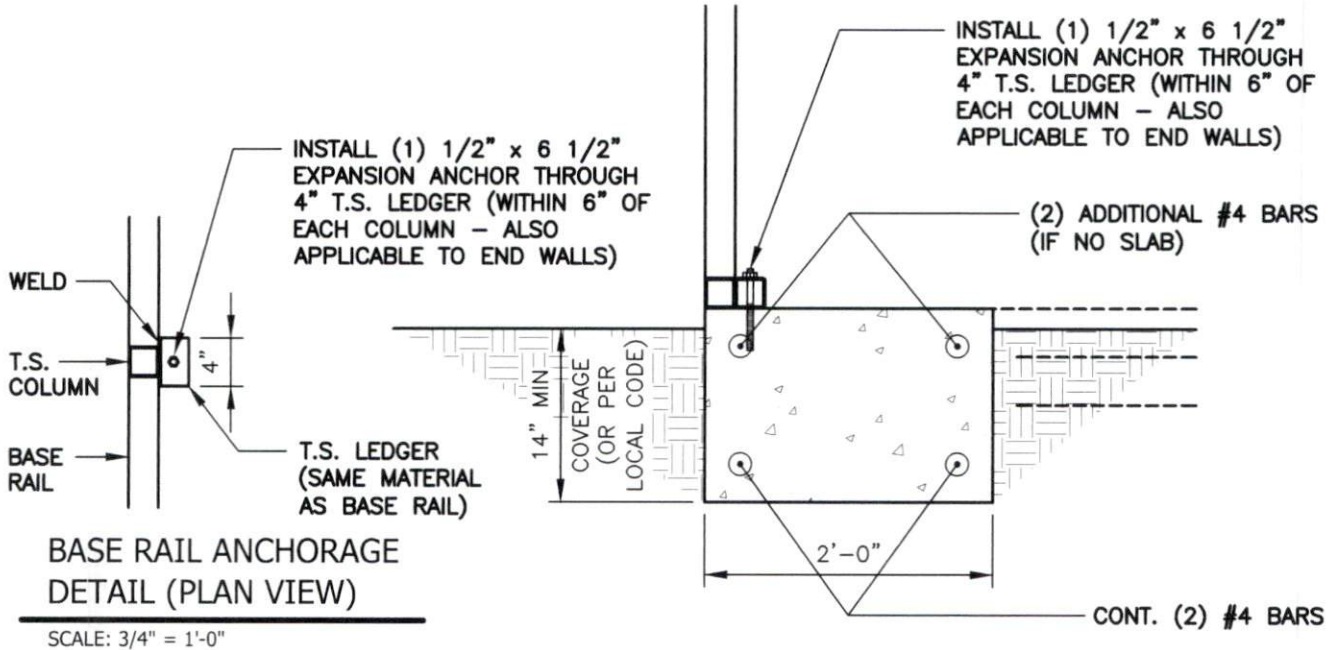
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CONCRETE BASE RAIL ANCHORAGE (NO SLAB)



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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COVER OVER REINFORCING STEEL:

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

TAYLOR & VIOLA
STRUCTURAL ENGINEERS
1100 S. 328th ST. SUITE 100
MAYLAND, NC 27041
PHONE: (336) 399-6277
FAX: (336) 399-6277
WWW.TAYLORVIOLA.COM

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

NC CARPORTS
& DAMAGES

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

DRAWN BY:

BKS

PROJECT NO:

MISC

DATE:

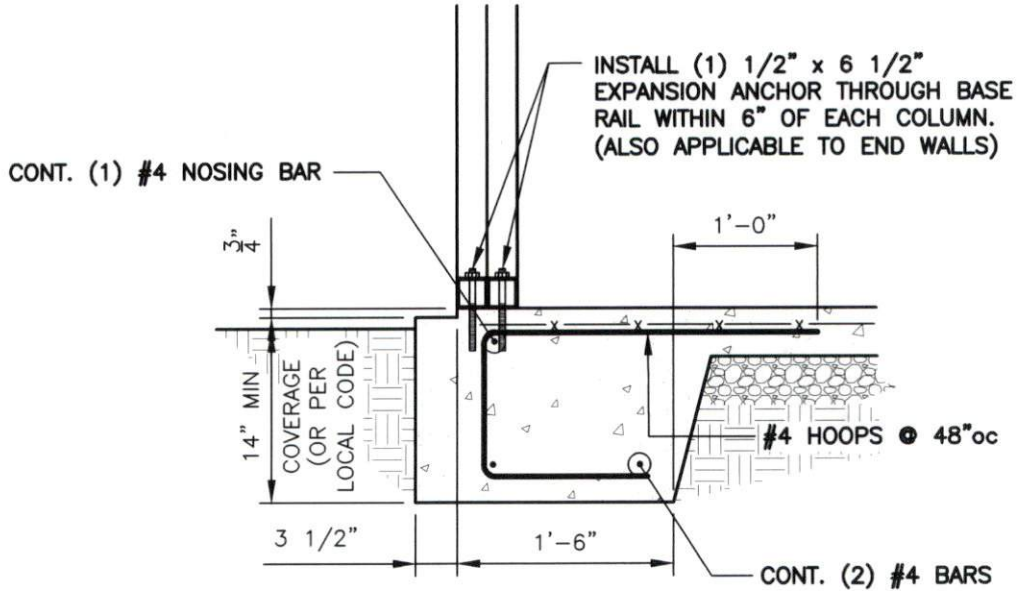
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SHEET NO:

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:


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


TAYLOR & VIOLA
 STRUCTURAL ENGINEERS
 211 Stone Drive, Pilot Mountain, NC 27041
 Telephone: (336) 399-6277

NC CARPORTS
 & GARAGES
 16 EAST MARKET STREET
 ELKIN, NORTH CAROLINA 28621
 TELE: 336-368-0668

DRAWN BY:
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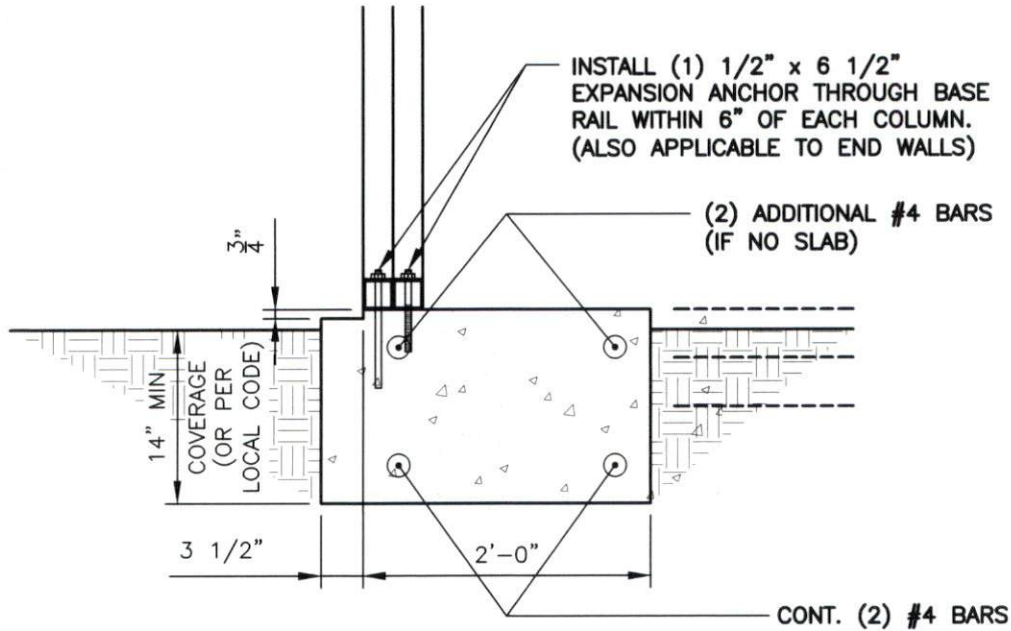
PROJECT NO:
MISC

DATE:
01.23.24

SHEET NO:
S7D

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

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

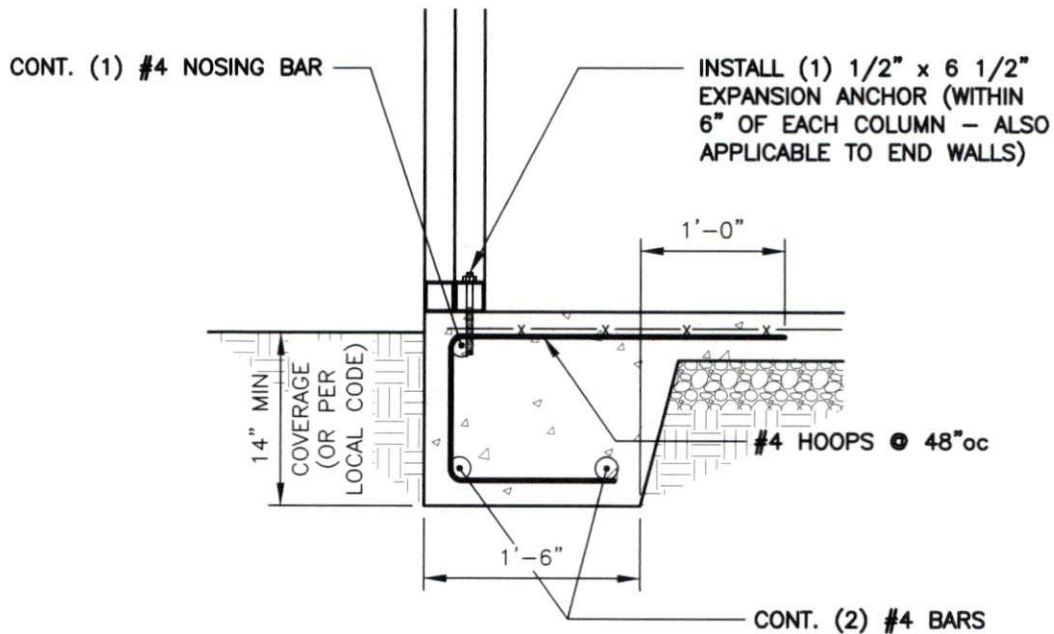
COVER OVER REINFORCING STEEL:
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 <p>TAYLOR & VIOLA STRUCTURAL ENGINEERS 211 Stone Drive, Pilot Mountain, NC 27041 Telephone: (336) 399-6277</p>	<p>NC CARPORTS & GARAGES</p> <p>16 EAST MARKET STREET ELKIN, NORTH CAROLINA 28621 TELE: 336-368-0668</p>	DRAWN BY: BKS	PROJECT NO: MISC
		DATE: 01.23.24	SHEET NO: S7E

CONCRETE BASE RAIL ANCHORAGE



1 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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TAYLOR & VIOLA
STRUCTURAL ENGINEERS
16 EAST MARKET STREET
ELKIN, NORTH CAROLINA 28621
TEL: 336-368-0668
FAX: 336-368-3220
WWW.TAYLORVIOLA.COM

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Telephone: (336) 399-6277

NC CARPORTS
& **DAPAGES**
16 EAST MARKET STREET
ELKIN, NORTH CAROLINA 28621
TELE: 336-368-0668

DRAWN BY:
BKS

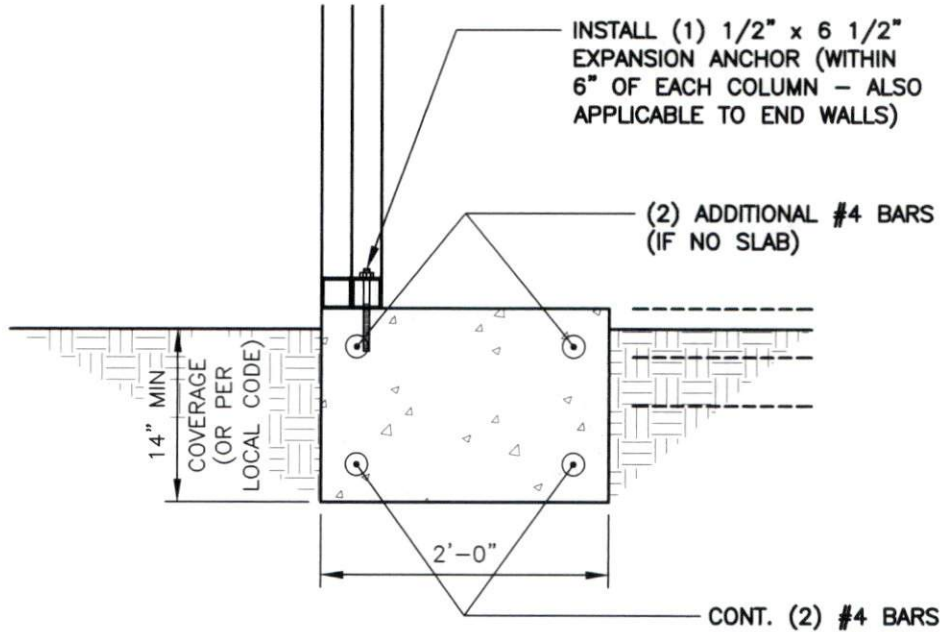
PROJECT NO:
MISC

DATE:
01.23.24

SHEET NO:
S7F

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

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.

CONCRETE:

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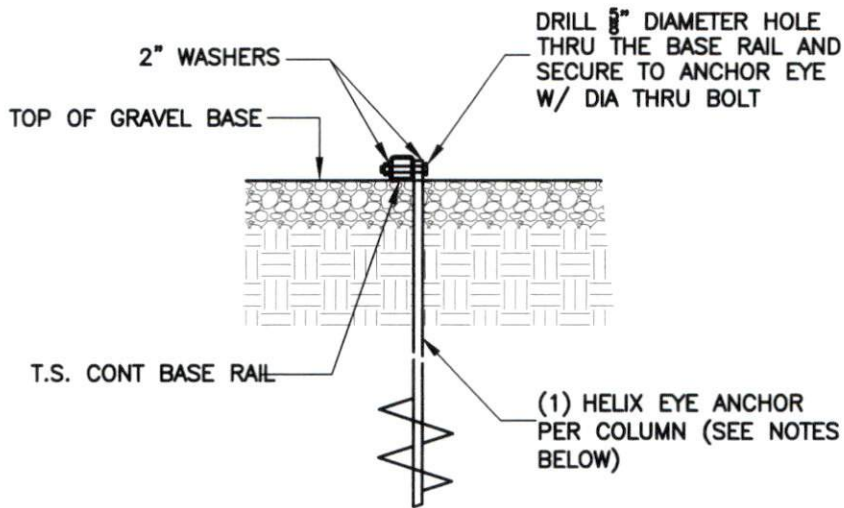
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 <p>TAYLOR & VIOLA STRUCTURAL ENGINEERS 211 Stone Drive, Pilot Mountain, NC 27041 Telephone: (336) 399-6277</p>	<p>NC CARPORTS & GARAGES 16 EAST MARKET STREET ELKIN, NORTH CAROLINA 28621 TELE: 336-368-0668</p>	<p>DRAWN BY: BKS</p>	<p>PROJECT NO: MISC</p>
		<p>DATE: 01.23.24</p>	<p>SHEET NO: S7G</p>

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SOIL NAIL BASE RAIL ANCHORAGE



1
S8
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.

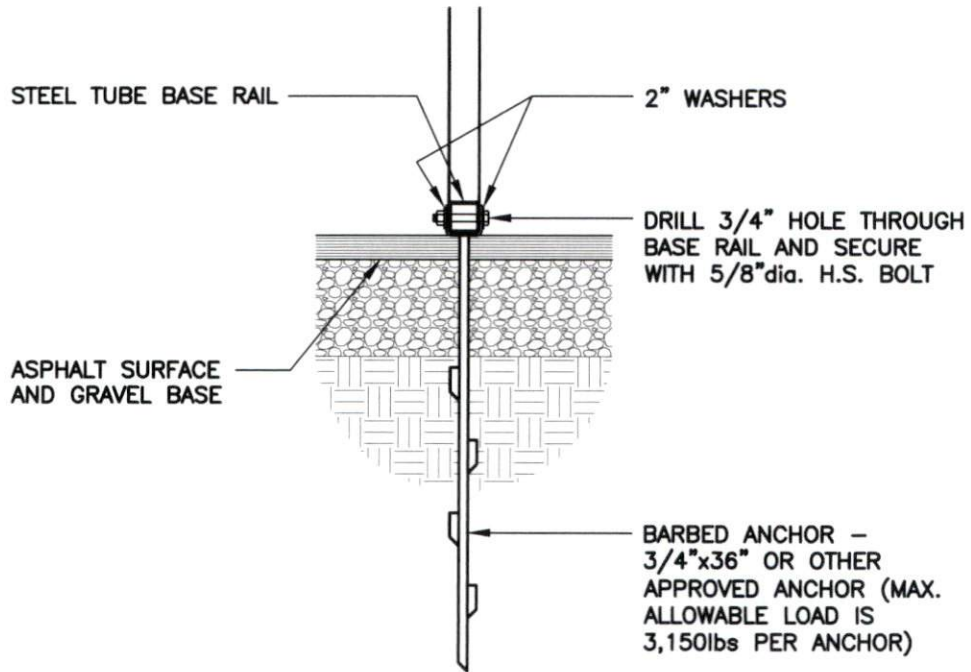
NOTE:

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

<p>TAYLOR & VIOLA STRUCTURAL ENGINEERS 211 Stone Drive, Pilot Mountain, NC 27041 Telephone: (336) 399-6277</p>	<p>NC CARPORTS DAMAGE 16 EAST MARKET STREET ELKIN, NORTH CAROLINA 28621 TELE: 336-368-0668</p>	<p>DRAWN BY: BKS</p> <p>DATE: 01.23.24</p>	<p>PROJECT NO: MISC</p> <p>SHEET NO: S8</p>
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NOTE: THESE DRAWINGS ARE VALID FOR (1) CALENDAR YEAR AFTER THE ISSUE DATE LISTED ON THIS SHEET.


ASPHALT ANCHOR BASE RAIL ANCHORAGE



1
S8A

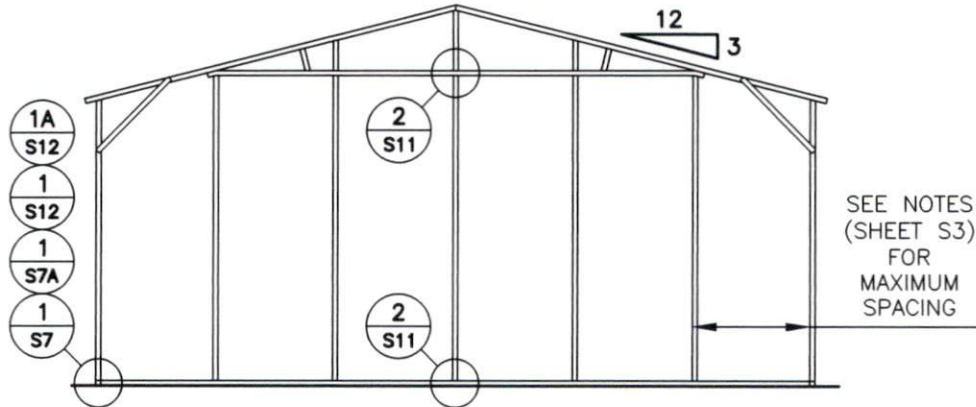
ASPHALT / BASE RAIL ANCHORAGE DETAIL

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

 <p>TAYLOR & VIOLA STRUCTURAL ENGINEERS 16 EAST MARKET STREET ELKIN, NORTH CAROLINA 28621 TEL: 336-368-0668 FAX: 336-368-0668 WWW.TAYLOR&VIOLA.COM</p> <p>CMT Associates, PLLC 211 Stone Drive, Pilot Mountain, NC 27041 Telephone: (336) 399-6277</p>	<p>NC CARPORTS & GARAGES</p> <p>16 EAST MARKET STREET ELKIN, NORTH CAROLINA 28621 TELE: 336-368-0668</p>	<p>DRAWN BY: BKS</p>	<p>PROJECT NO: MISC</p>
		<p>DATE: 01.23.24</p>	<p>SHEET NO: S8A</p>

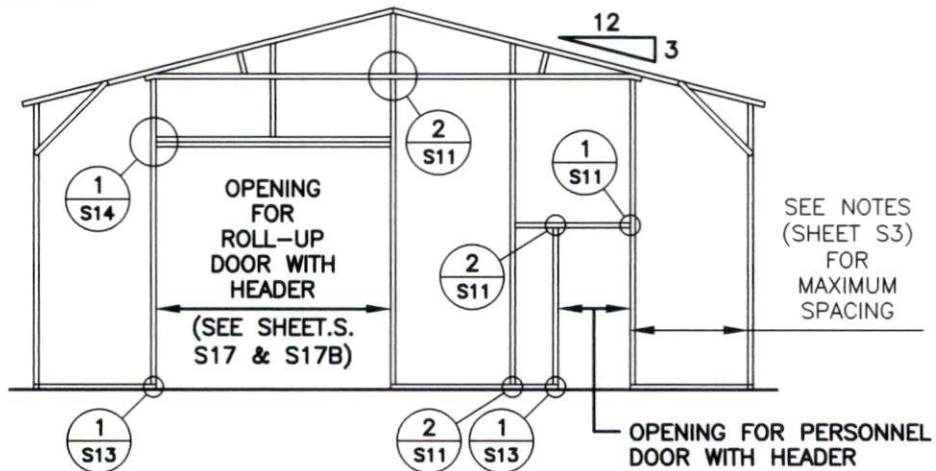
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BOX EVE RAFTER END WALL OPENINGS




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.



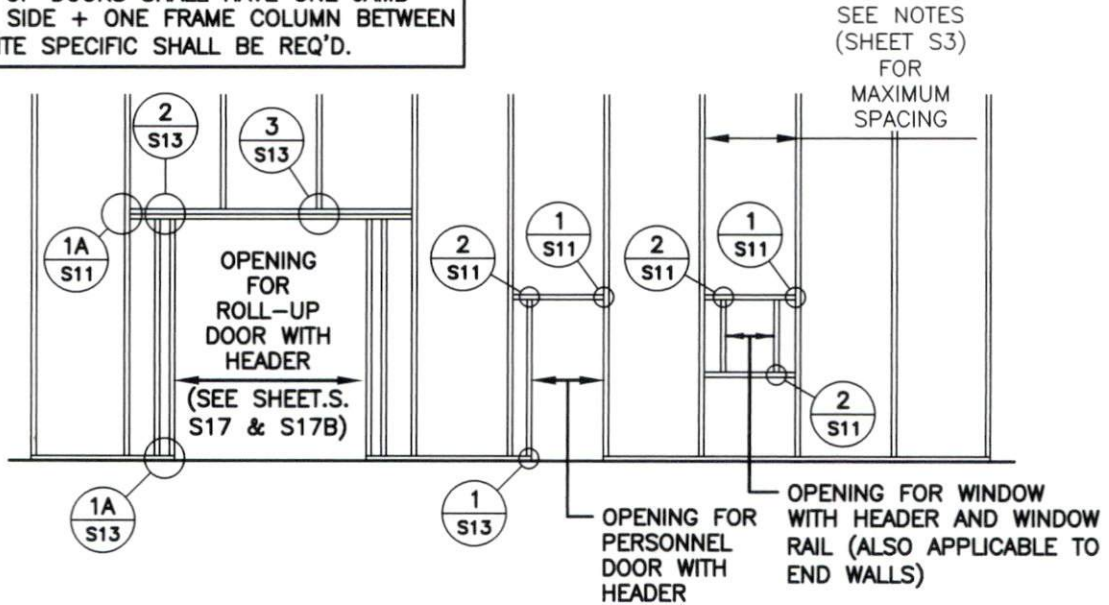
TYPICAL BOX EVE RAFTER END WALL OPENINGS FRAMING SECTION

 <p>TAYLOR & VIOLA STRUCTURAL ENGINEERS <small>1101 W. 328th Street, Raleigh, NC 27607 336-328-3280 FAX: 336-328-3281 211 Stone Drive, Pilot Mountain, NC 27041 Telephone: (336) 399-6277</small></p>	<p align="center">NC CARPORTS & ADA PAGES</p> <p align="center">16 EAST MARKET STREET ELKIN, NORTH CAROLINA 28621 TELE: 336-368-0668</p>	DRAWN BY: BKS	PROJECT NO: MISC
		DATE: 01.23.24	SHEET NO: S9

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

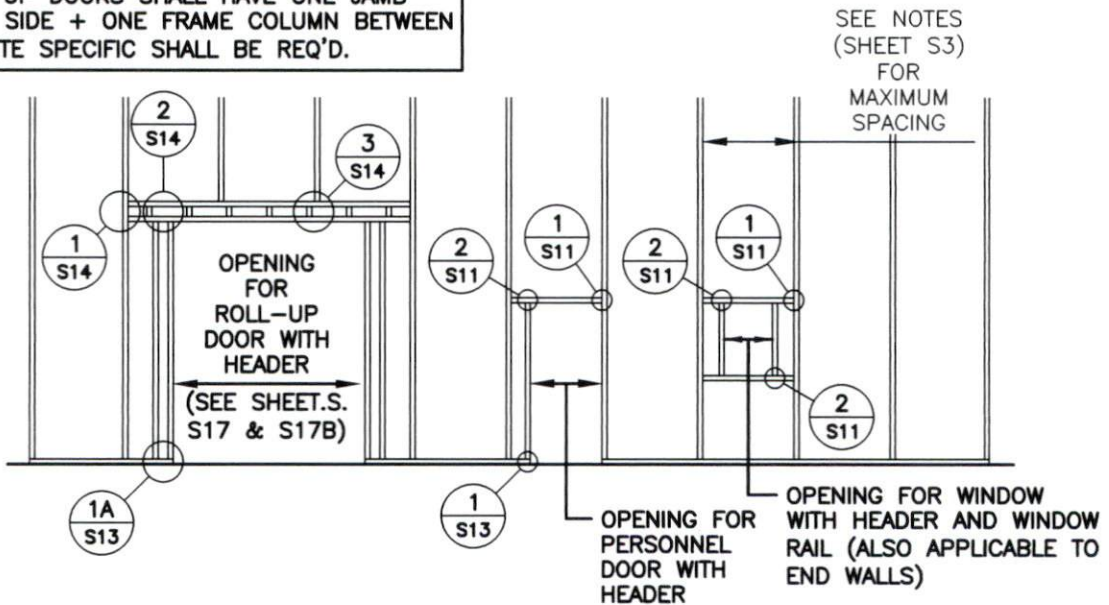
BOX EVE RAFTER END WALL AND SIDE WALL OPENINGS

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.

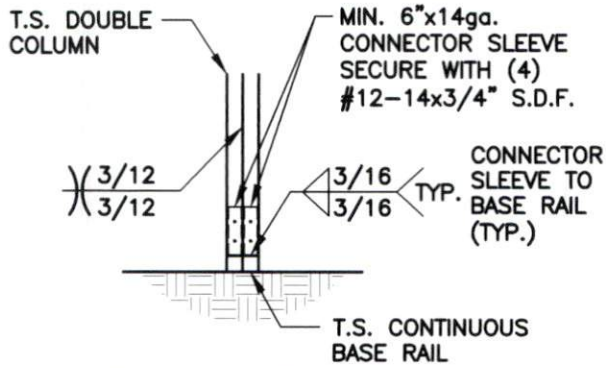


TYPICAL SIDE WALL OPENING FRAMING SECTION

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	<p>Bobby Johnson</p>	<p>16 EAST MARKET STREET ELKIN, NORTH CAROLINA 28621 TELE: 336-368-0668</p>	DATE: 01.23.24

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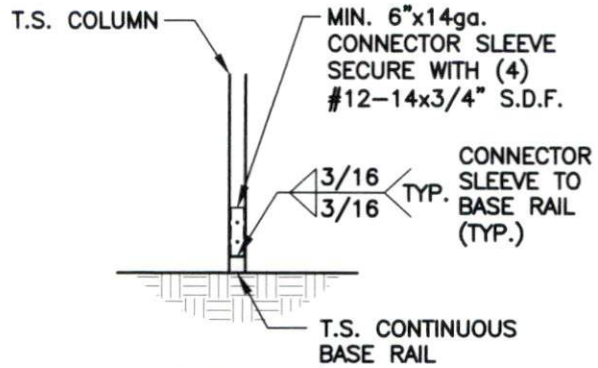
CONNECTION DETAILS



POST / BASE RAIL
CONNECTION DETAIL

1
S10

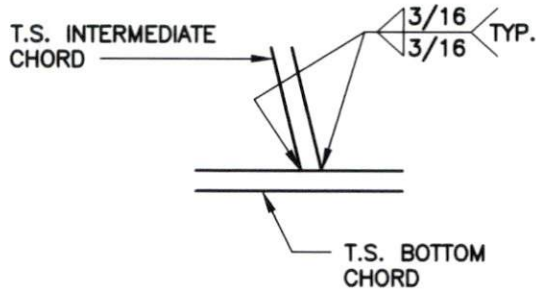
SCALE: 1/2" = 1'-0"



POST / BASE RAIL
CONNECTION DETAIL

1A
S10

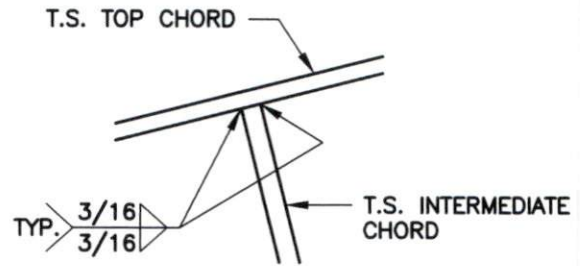
SCALE: 1/2" = 1'-0"



INTERMEDIATE CHORD
TO BOTTOM CHORD
CONNECTION DETAIL

2
S10

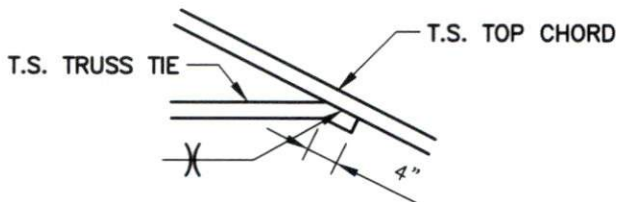
SCALE: 1/2" = 1'-0"



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"

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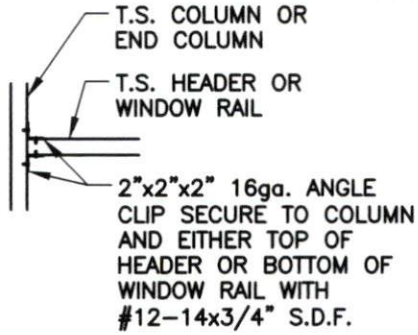
NC CARPORTS
Bobby Johnson
16 EAST MARKET STREET
ELKIN, NORTH CAROLINA 28621
TELE: 336-368-0668

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MISC
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S10

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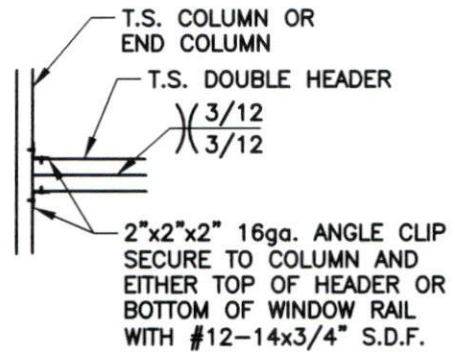
CONNECTION DETAILS



COLUMN OR WINDOW
RAIL / WALL GIRT TO POST
CONNECTION DETAIL

1
S11

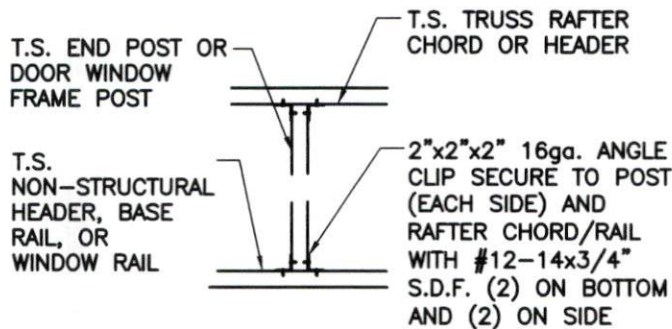
SCALE: 1/2" = 1'-0"



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"

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STRUCTURAL ENGINEERS
1616 E. KOPPEL, NORTH CAROLINA
27041-3288 PH: (336) 328-3200 FAX: (336) 328-3201
WWW.TAYLORVIOLA.COM
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211 Stone Drive, Pilot Mountain, NC 27041
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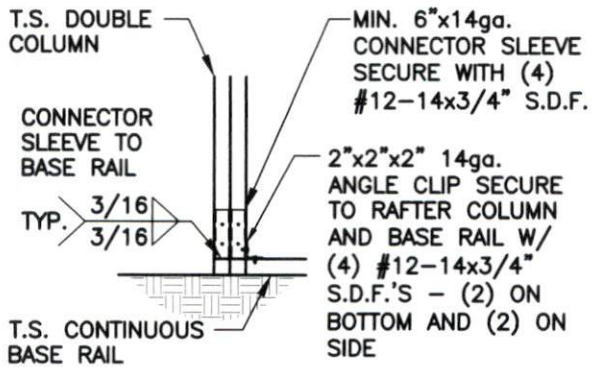
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NOTE: THESE DRAWINGS ARE VALID FOR (1) CALENDAR YEAR AFTER THE ISSUE DATE LISTED ON THIS SHEET.

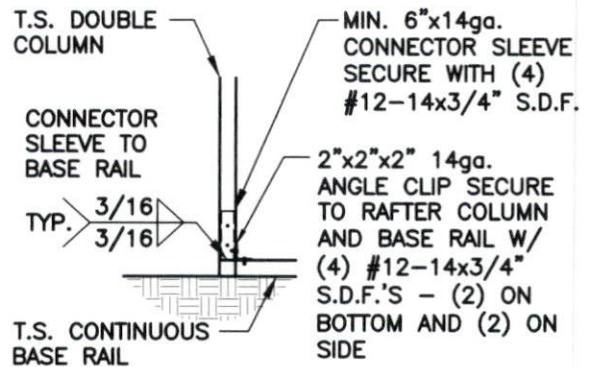
CONNECTION DETAILS



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"

TAYLOR & VIOLA
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211 Stone Drive, Pilot Mountain, NC 27041
Telephone: (336) 399-6277

NC CARPORTS
& **ADA RAMPAGES**
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ELKIN, NORTH CAROLINA 28621
TELE: 336-368-0668

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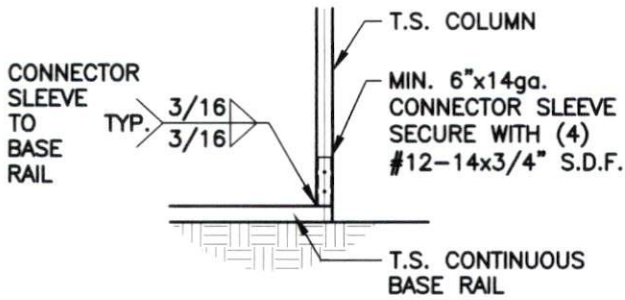
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S12

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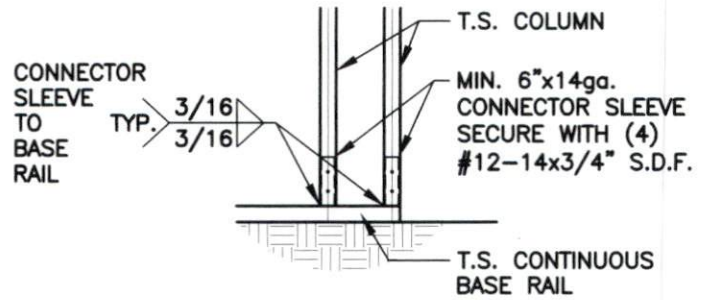
CONNECTION DETAILS



1
COLUMN / BASE RAIL CONNECTION DETAIL

S13

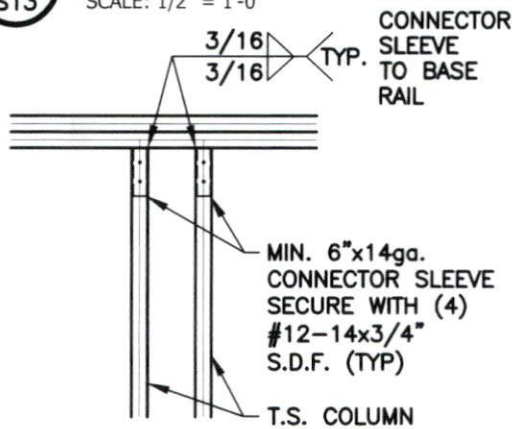
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1A
COLUMN / BASE RAIL CONNECTION DETAIL

S13

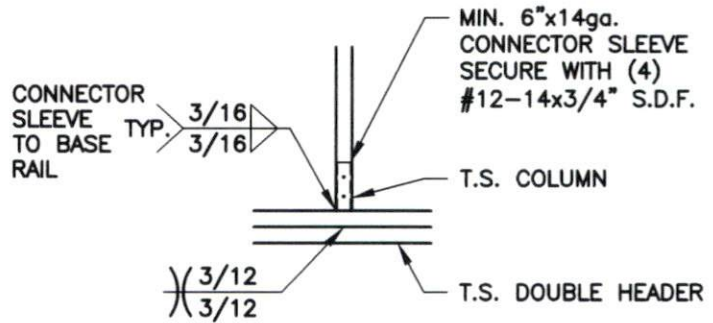
SCALE: 1/2" = 1'-0"



2
DOUBLE HEADER / COLUMN CONNECTION DETAIL

S13

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



3
COLUMN / DOUBLE HEADER CONNECTION DETAIL

S13

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

TAYLOR & VIOLA
STRUCTURAL ENGINEERS
1000 W. MARKET STREET, SUITE 200
WELLSVILLE, NORTH CAROLINA 28691
PHONE: 336-328-3328 FAX: 336-328-3301
WWW.TAYLORVIOLA.COM

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

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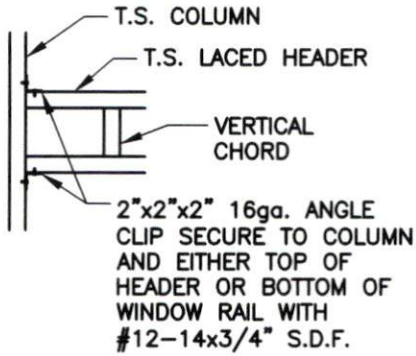
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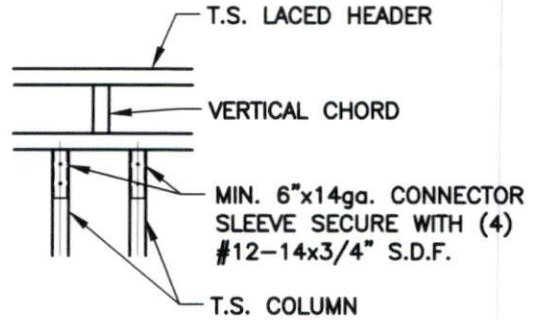
CONNECTION DETAILS



COLUMN / LACED HEADER
CONNECTION DETAIL

1
S14

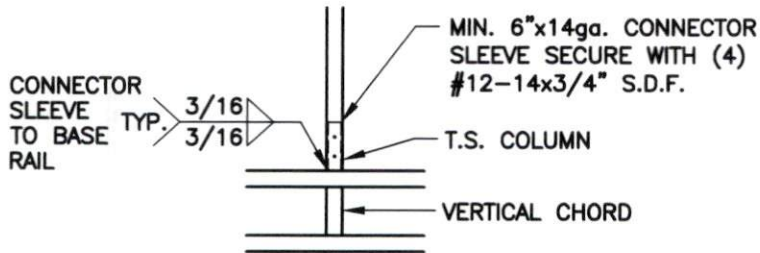
SCALE: 1/2" = 1'-0"



LACED HEADER / COLUMN
CONNECTION DETAIL

2
S14

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



COLUMN / LACED HEADER
CONNECTION DETAIL

3
S14

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

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STRUCTURAL ENGINEERS
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FAX: 336-368-0601
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211 Stone Drive, Pilot Mountain, NC 27041
Telephone: (336) 399-6277

NC CARPORTS
& **ADA RAMPES**
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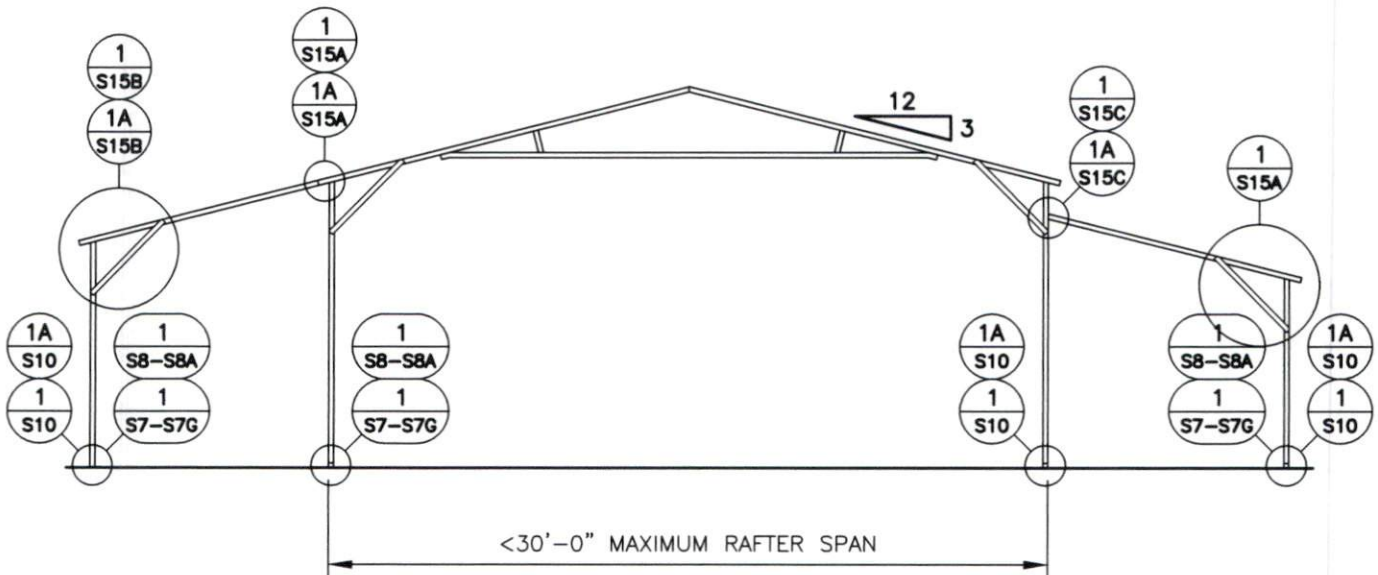
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MISC

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01.23.24

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S14


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BOX EVE RAFTER LEAN-TO OPTIONS



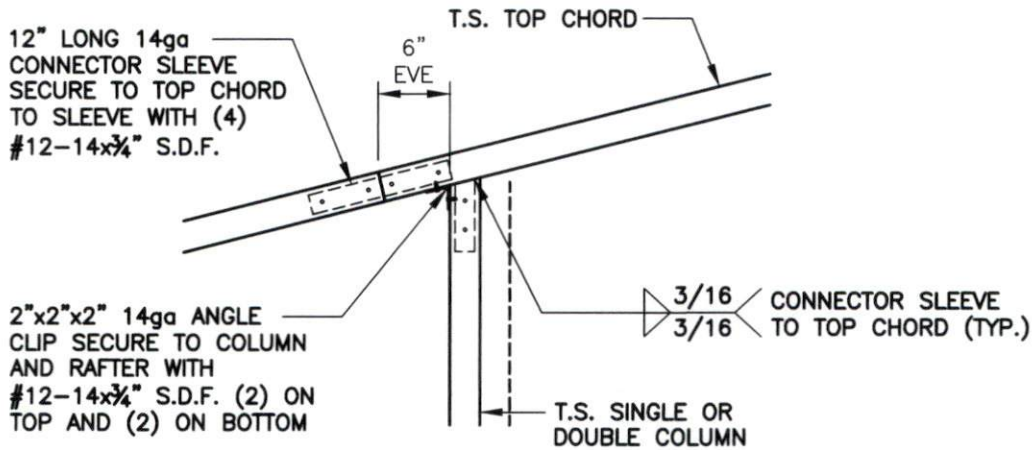
TYPICAL LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

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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		<p>DATE: 01.23.24</p>	<p>SHEET NO: S15</p>

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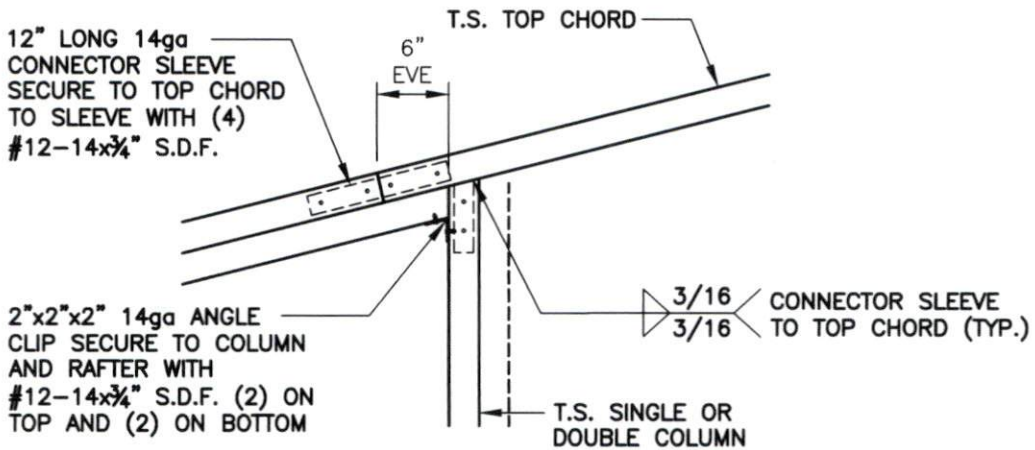
LEAN-TO CONNECTION DETAILS



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"

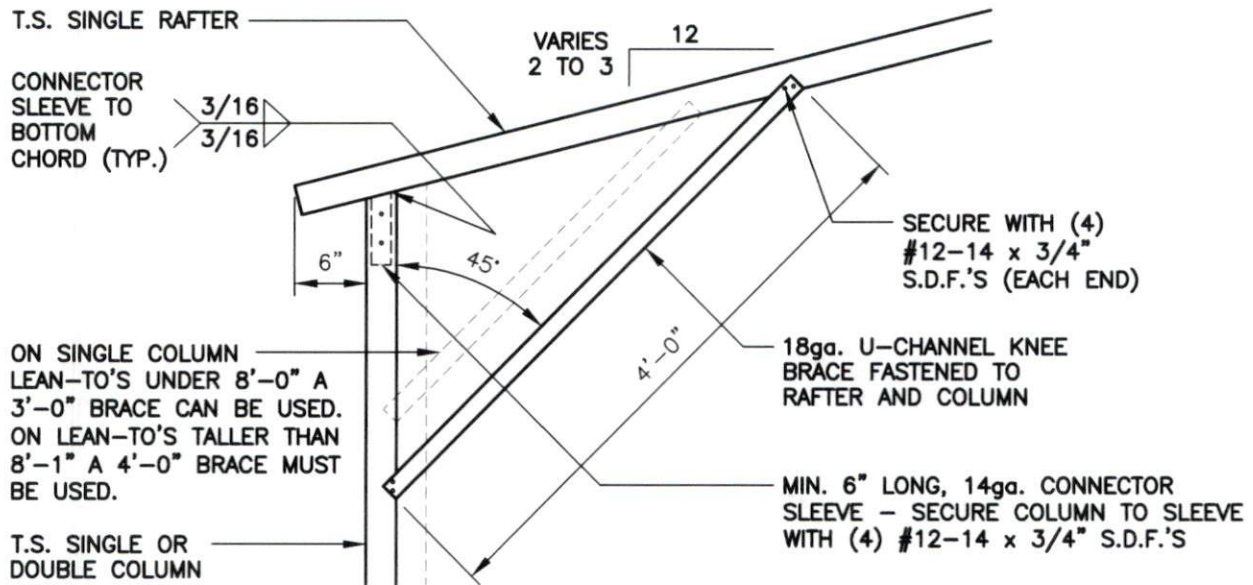
1A
S15A

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

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		<p>DATE: 01.23.24</p>	<p>SHEET NO: S15A</p>

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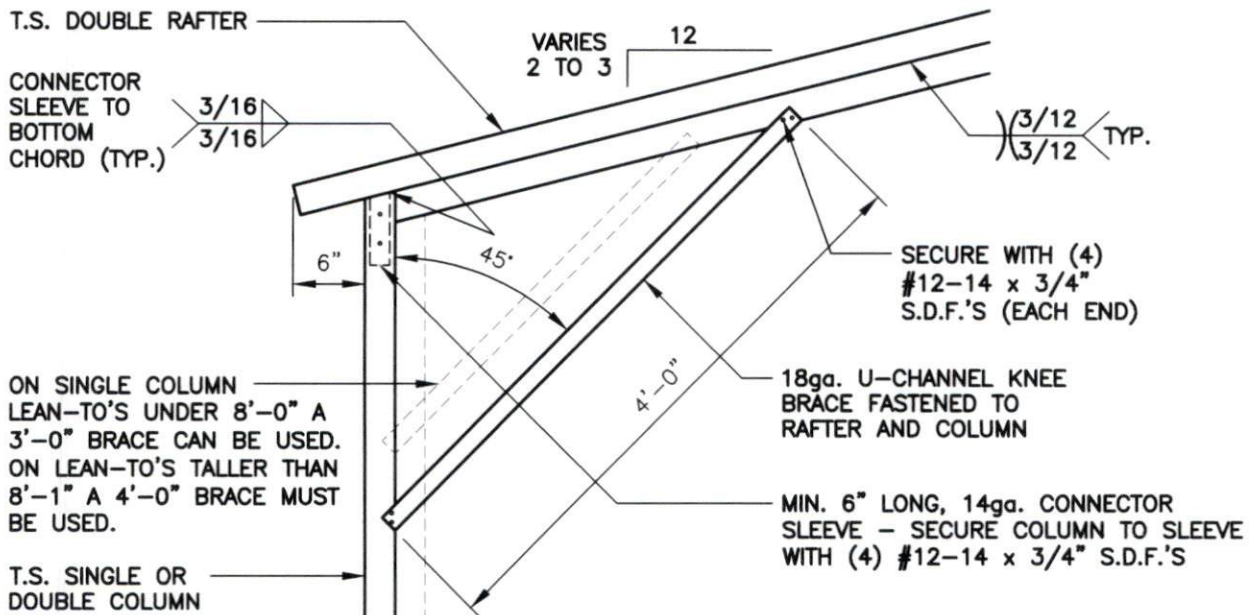
LEAN-TO CONNECTION DETAILS - SINGLE COLUMN



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"

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STRUCTURAL ENGINEERS
16 EAST MARKET STREET
ELKIN, NORTH CAROLINA 28621
TEL: 336-368-0668
FAX: 336-368-3221
WWW.TAYLOR-VIOLA.COM

CMT Associates, PLLC
211 Stone Drive, Pilot Mountain, NC 27041
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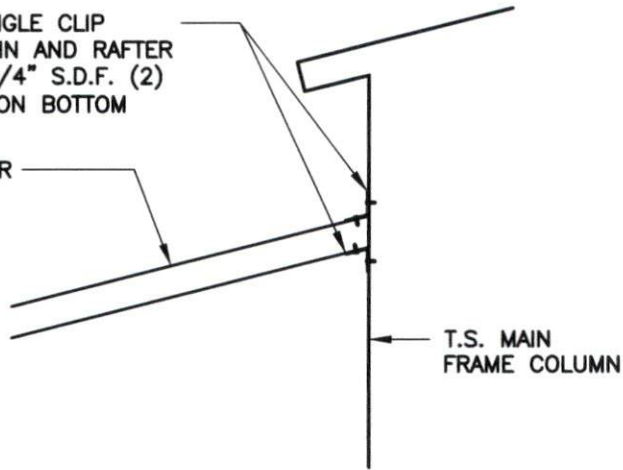
SHEET NO:
S15B

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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

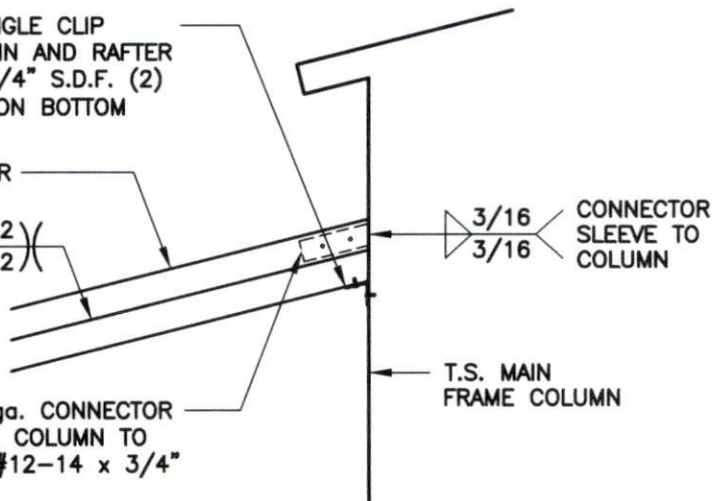
1
S15C

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

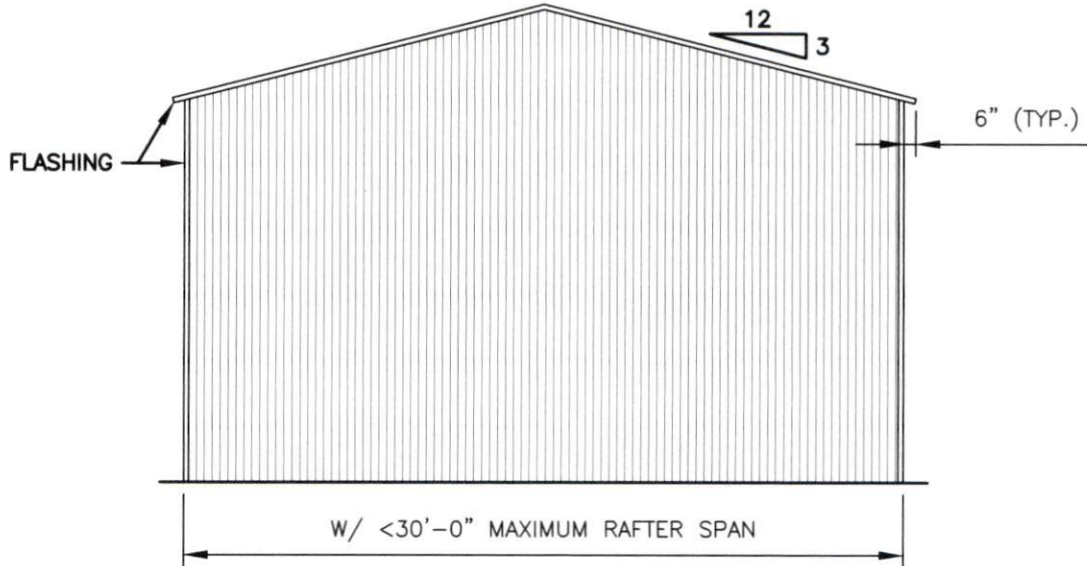
1A
S15C

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

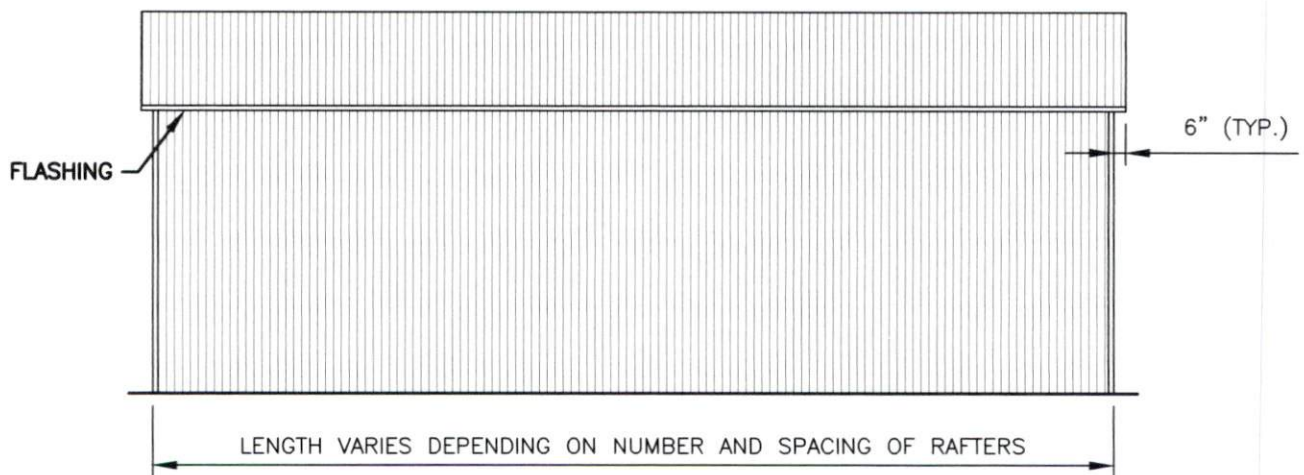
 <p>TAYLOR & VIOLA STRUCTURAL ENGINEERS 16 EAST MARKET STREET ELKIN, NORTH CAROLINA 28621 TEL: 336-368-0668</p>	<p align="center">NC CARPORTS & GARAGES</p>	<p>DRAWN BY: BKS</p>	<p>PROJECT NO: MISC</p>
		<p>DATE: 01.23.24</p>	<p>SHEET NO: S15C</p>

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VERTICAL ROOF / SIDING OPTION



TYPICAL END ELEVATION - VERTICAL ROOF / SIDING



TYPICAL SIDE ELEVATION - VERTICAL ROOF / SIDING

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STRUCTURAL ENGINEERS
211 Stone Drive, Pilot Mountain, NC 27041
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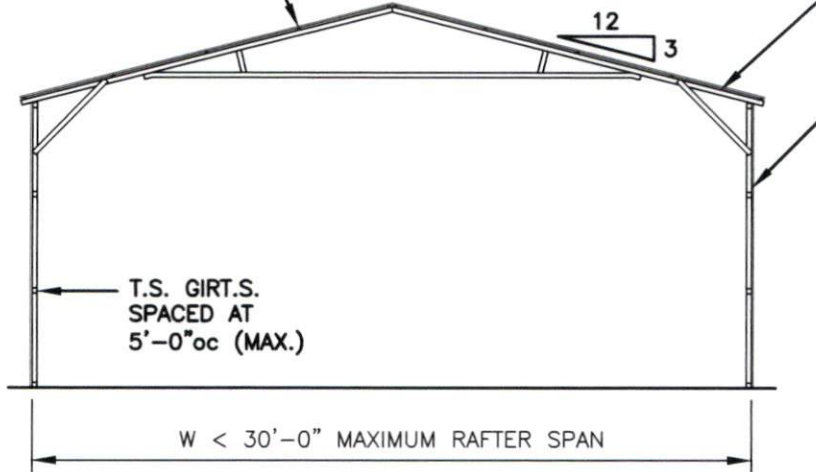
DATE:
01.23.24

SHEET NO:
S16

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.

29ga. GALVANIZED METAL ROOF AND WALL PANELS FASTENED TO HAT CHANNELS AND GIRT.S.



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.

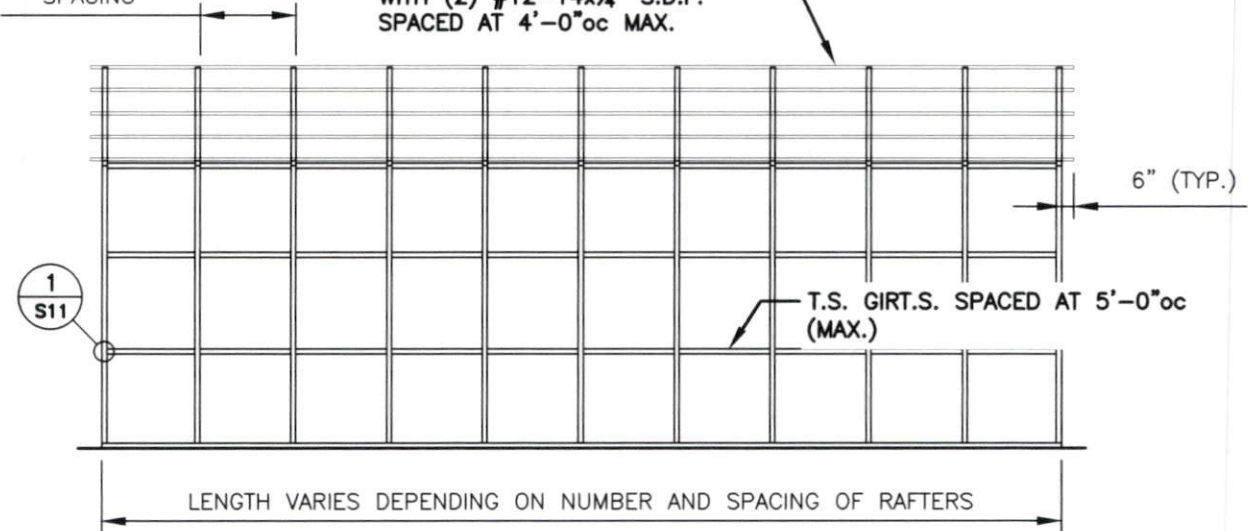
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		<p>DATE: 01.23.24</p>	<p>SHEET NO: S16A</p>

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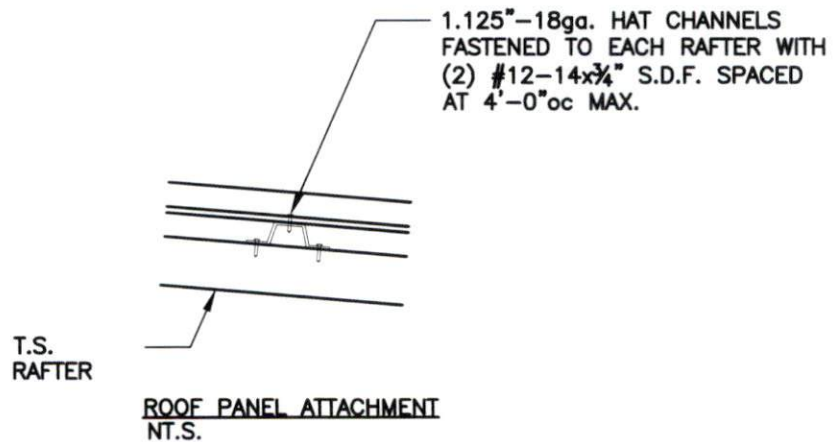
VERTICAL ROOF / SIDING OPTION

SEE NOTES
(SHEET S3)
FOR MAXIMUM
SPACING

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.



TYPICAL SIDE FRAMING SECTION VERTICAL ROOF / SIDING OPTION



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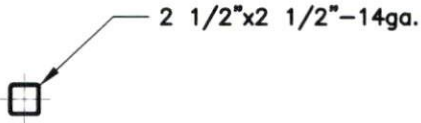
PROJECT NO:
MISC

DATE:
01.23.24

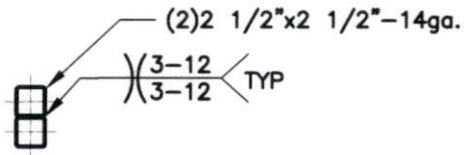
SHEET NO:
S16B

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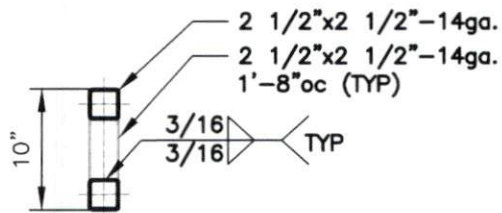
SIDE WALL HEADER OPTIONS



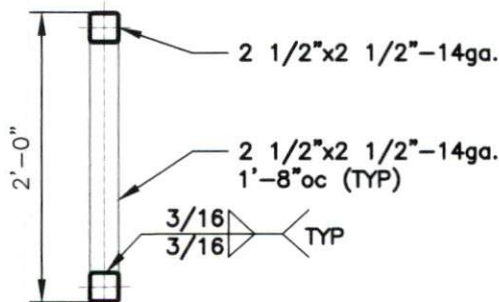
HEADER DETAIL FOR DOOR
OPENINGS < 4'-0"
 NT.S.



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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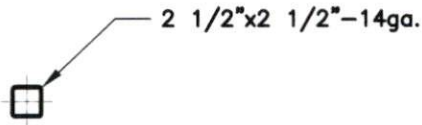
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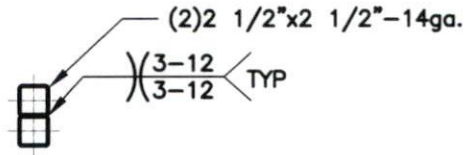
PROJECT NO:
 MISC
SHEET NO:
S17

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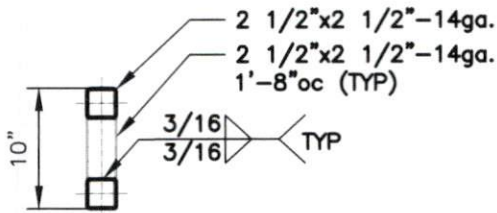
END WALL HEADER OPTIONS



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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