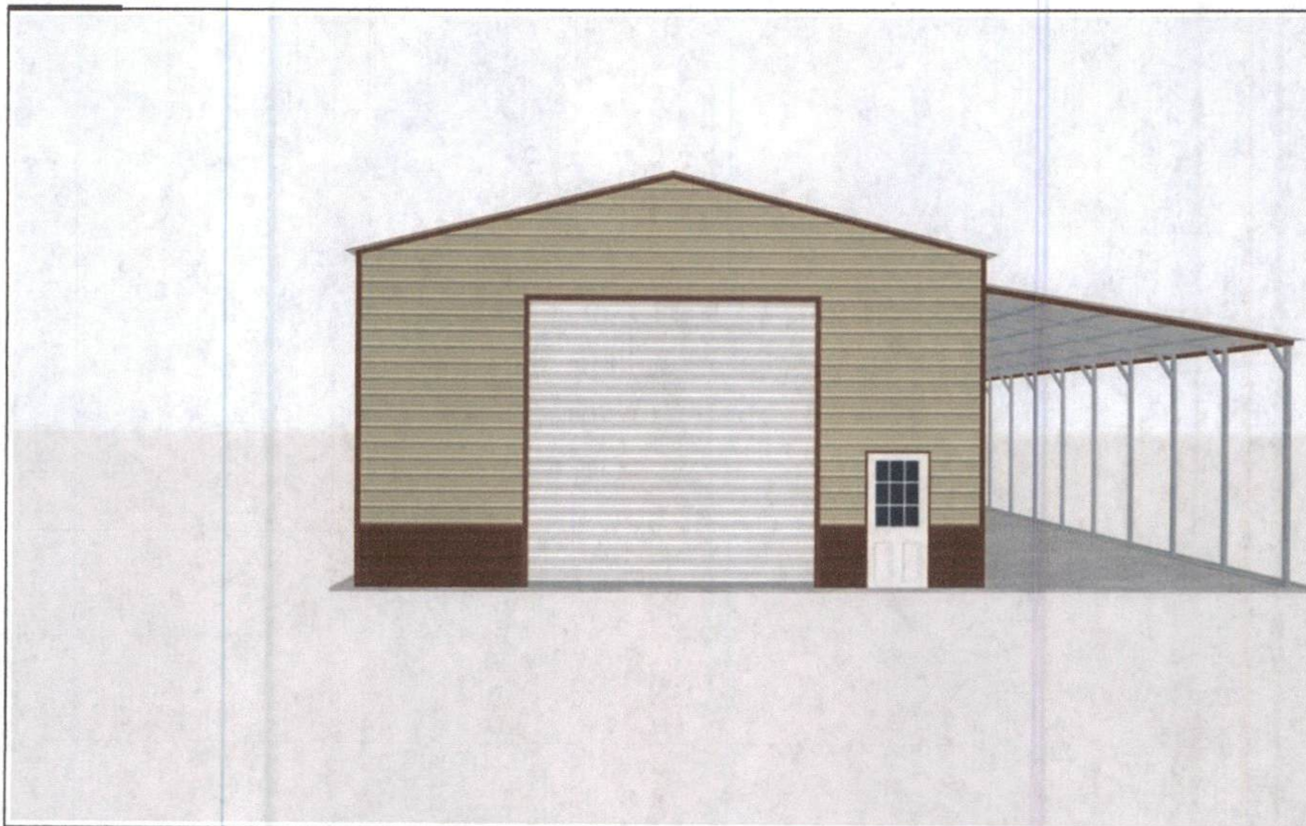
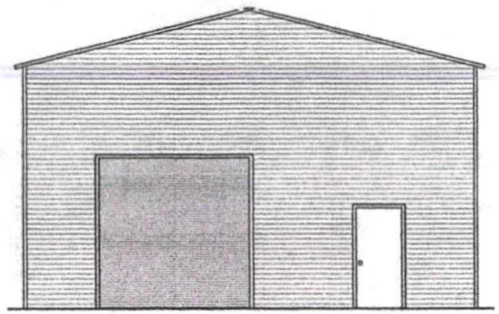
BUILDING VIEW



FRONT



ENCLOSED GABLE END BUILDING

MAXIMUM >0' TO <30'-0" WIDE x <16'-0" MAXIMUM EVE HEIGHT (BOX FRAME)
(UP TO) 145 M.P.H. WIND ZONE - 35 P.S.F. SNOW LOAD

FOR:
Wesley Williams
335 Llyod Stewart Rd
Broadway, NC 27505

ISSUE DATE: 10/24/24

TAYLOR & VIOLA
STRUCTURAL ENGINEERS

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

AMERICAN
BUILDING NETWORK

THESE PLANS HAVE BEEN PROPERLY EXAMINED BY THE UNDERSIGNED.I DETERMINED THAT THEY COMPLY WITH EXISTING LOCAL NORTH CAROLINA CODES AND ARE APPROPRIATE FOR USE IN THIS AREA

NORTH CAROLINA PROFESSIONAL SEAL 27874 ENGINEER JASON M. REEP
10/25/24

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

V1.2

INDEX OF DRAWINGS

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

0"-30'-0" WIDTH
16'-0" EAVE HEIGHT
145 WIND ZONE
35 P.S.F. SNOW

Project No. 0124-0071

Sheet No. S0B

Wesley Williams
335 Llyod Stewart Rd
Broadway, NC 27505

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

Date: 10/24/24

Revisions: -

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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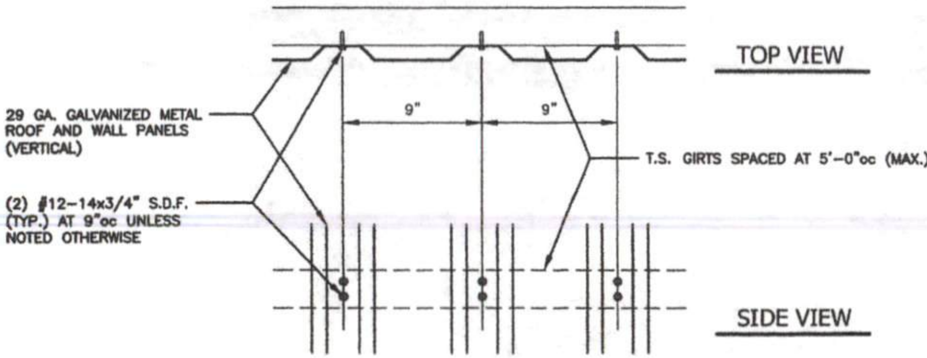
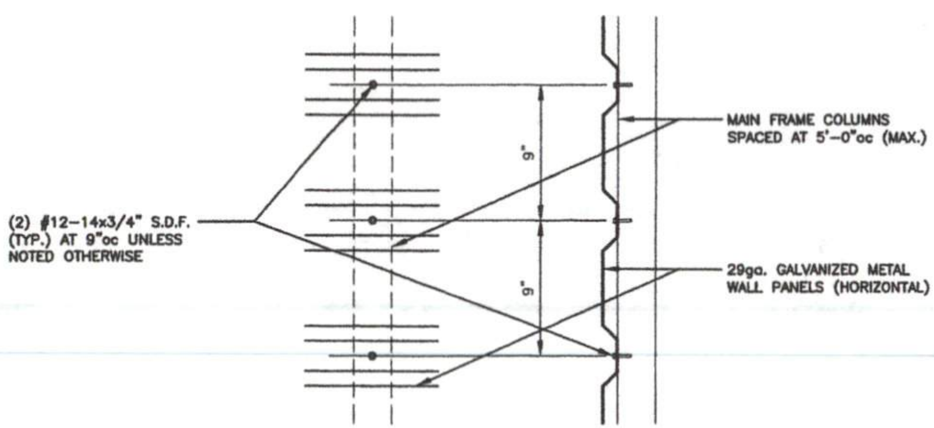
NORTH CAROLINA PROFESSIONAL SEAL 27874 ENGINEER JASON M. REEP
10/25/24



(VERTICAL) SIDING CONNECTION DETAIL

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



(HORIZONTAL) SIDING CONNECTION DETAIL

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

APPENDIX "B"

STRUCTURAL DESIGN

DESIGN LOADS:

IMPORTANCE FACTORS — WIND (Iw) 1.00; SNOW (Is) 1.00; SEISMIC (Ie) 1.00

DEAD LOADS — ROOF 13 P.S.F.; ROOF COLLATERAL 0 P.S.F.

LIVE LOADS — ROOF 20 P.S.F.

GROUND SNOW LOAD: 15 P.S.F. *DRIFT LOAD HAS NOT BEEN CALCULATED

WIND LOAD: BASIC WIND SPEED 116 M.P.H ASCE 7-10; EXPOSURE CATAGORY C

SEISMIC DESIGN CATAGORY ☐ A ☐ B ☑ C ☐ D

PROVIDE THE FOLLOWING SEISMIC DESIGN PARAMETERS:

OCCUPANCY CATEGORY II

SPECTRAL RESPONSE ACCELERATION Ss 18.8 %g S1 8.8 %g

SITE CLASSIFICATION D ☐ FIELD TEST ☒ PRESUMPTIVE ☐ HISTORICAL DATA

BASIC STRUCTURAL SYSTEM (CHECK ONE)

.	BEARING WALL	.	DUAL W/ SPECTRAL MOMENT FRAME
X	BUILDING FRAME		DUAL W/ INTERMEDIATE R/C OR SPECIAL STEEL
.	MOMENT FRAME	.	INVERTED PENDULUM

ANALYSIS PROCEDURE . SIMPLIFIED X EQUIVALANT LATERAL FORCE . MODAL

LATERAL DESIGN CONTROL? . EARTHQUAKE X WIND

SOIL BEARING CAPACITIES:
PRESUMPTIVE BEARING CAPACITIES: 1,500 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 14ga. 50 K.S.I. MIN. UNLESS NOTED OTHERWISE.
4. ALL FASTENERS SHALL BE (2) #12 SELF TAPPING AT 9"oc UNLESS NOTED OTHERWISE.
5. 1,500 PSF ASSUMED BEARING CAPACITY UNLESS NOTED OTHERWISE.
6. THESE DRAWINGS ARE NOT APPLICABLE TO OPEN / PARTIALLY OPEN BUILDINGS.
7. THESE DRAWINGS ARE NOT DESIGNED FOR SLEEPING QUARTERS.

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

0"-30'-0" WIDTH
16'-0" EAVE HEIGHT
145 WIND ZONE
35 P.S.F. SNOW

Project No. 0124-0071

Sheet No. S0C

Wesley Williams
335 Llyod Stewart Rd
Broadway, NC 27505

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

Date: 10/24/24

Revisions: .

TAYLOR & VIOLA
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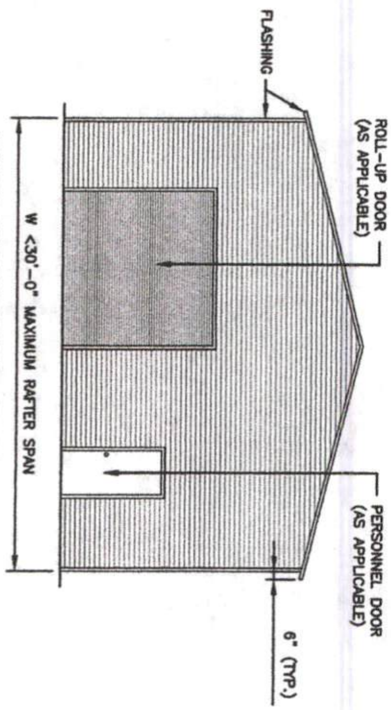
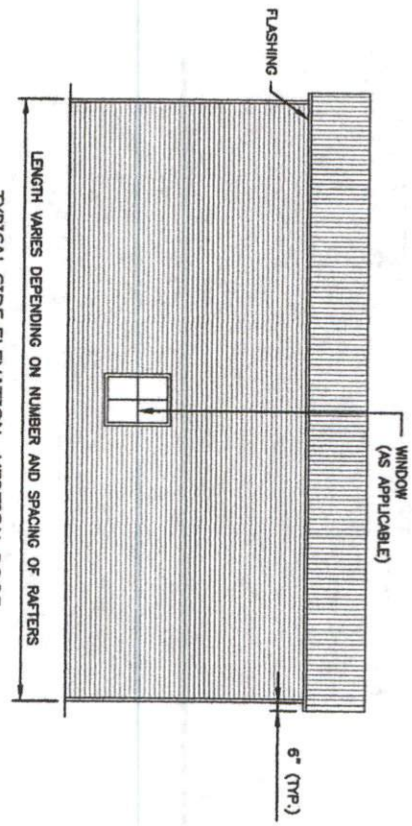
NORTH CAROLINA PROFESSIONAL SEAL 27874 ENGINEER JASON M. REEP
10/25/24

BOX EVE FRAME RAFTER STURCTURE



TYPICAL END ELEVATION - VERTICAL ROOF



TYPICAL SIDE ELEVATION - VERTICAL ROOF

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 27874 JASON M. REEP 10/25/24

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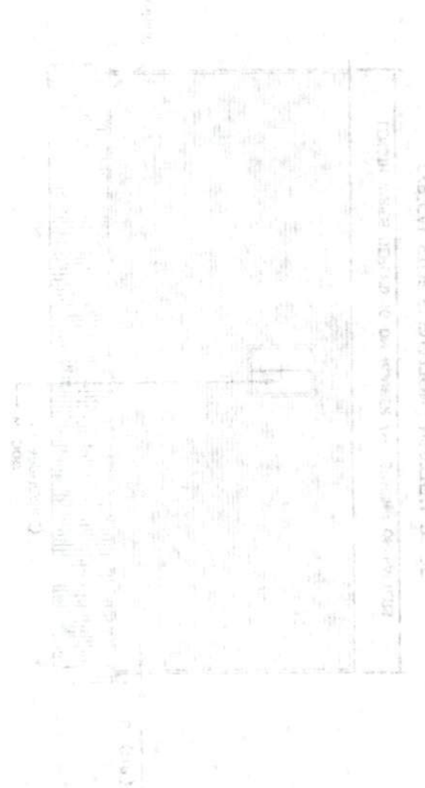
VI.2

Wesley Williams
335 Llyod Stewart Rd
Broadway, NC 27505

0"-30'-0" WIDTH
16'-0" EAVE HEIGHT
145 WIND ZONE
35 P.S.F. SNOW

Date: 10/24/24	JCMT Associates, PLLC	Project No. 0124-0071
Revisions: -	211 Stone Drive, Pilot Mountain, NC 27041 Telephone: (336) 399-6277	Sheet No. S1

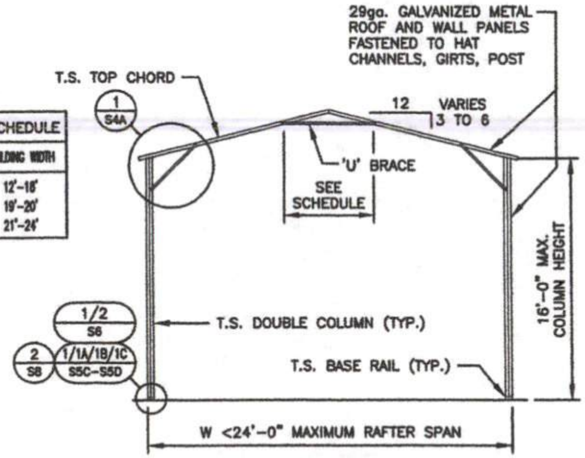


Wesley Williams
225 Lloyd Stancil Rd

[illegible] Associates, LLC

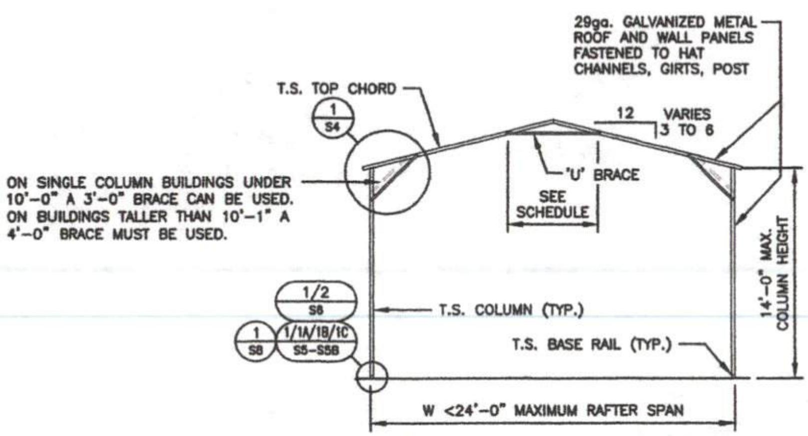
(<24' WIDE / <16' HIGH) BOX EVE RAFTER END WALL SECTIONS

'U' BRACE SCHEDULE	
BRACE SPAN	BUILDING WIDTH
2'-0"	12'-18'
4'-0"	19'-20'
6'-0"	21'-24'



TYPICAL RAFTER / COLUMN FRAME SECTION

NOTE:
H.S.S. 2-1/2"x2-1/2"x14ga. OR 2-1/4"x2-1/4"x12ga. MATERIAL MAY BE USED FOR TRUSS METAL.



TYPICAL RAFTER / COLUMN FRAME SECTION

'U' BRACE SCHEDULE	
BRACE SPAN	BUILDING WIDTH
2'-0"	12'-18'
4'-0"	19'-20'
6'-0"	21'-24'

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0"-30'-0" WIDTH
16'-0" EAVE HEIGHT
145 WIND ZONE
35 P.S.F. SNOW

Project No. 0124-0071

Sheet No. S2

Wesley Williams
335 Llyod Stewart Rd
Broadway, NC 27505

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

Date: 10/24/24

Revisions: -

TAYLOR & VIOLA
STRUCTURAL ENGINEERS
P.O.B. 2616 HICKORY NORTH CAROLINA
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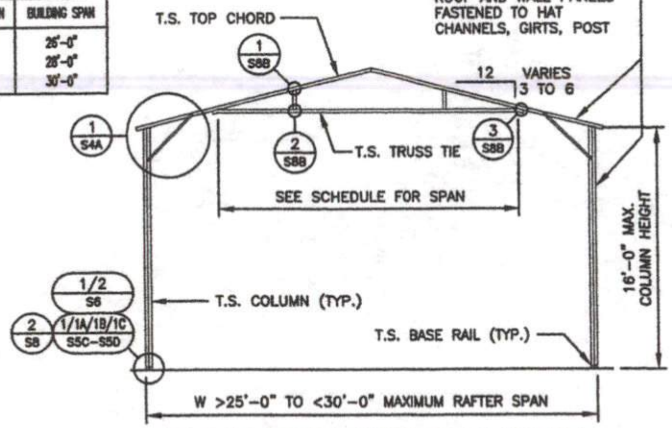
NORTH CAROLINA PROFESSIONAL SEAL 27874 ENGINEER JASON M. REEP
10/25/24

(>25' - <30' WIDE / <16' HIGH) BOX EVE RAFTER END WALL SECTIONS

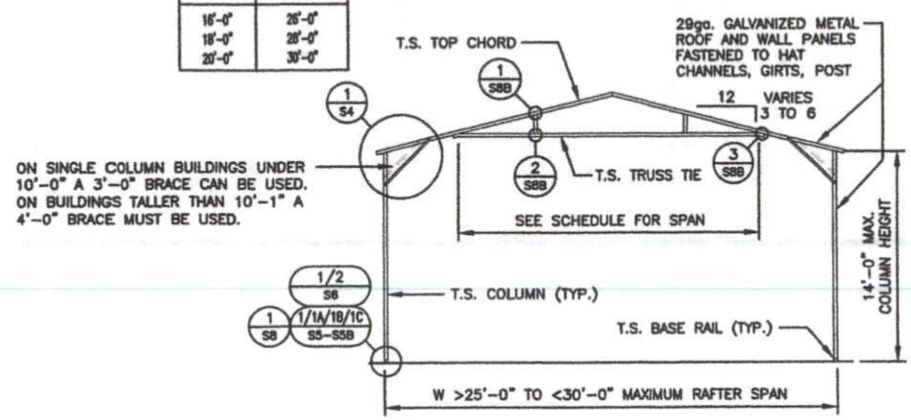
TRUSS TIE SCHEDULE	
BRACE SPAN	BUILDING SPAN
16'-0"	26'-0"
18'-0"	28'-0"
20'-0"	30'-0"



TYPICAL RAFTER / COLUMN FRAME SECTION

NOTE:
H.S.S. 2-1/2"x2-1/2"x14ga. OR 2-1/4"x2-1/4"x12ga. MATERIAL MAY BE USED FOR TRUSS METAL.

TRUSS TIE SCHEDULE	
BRACE SPAN	BUILDING SPAN
16'-0"	26'-0"
18'-0"	28'-0"
20'-0"	30'-0"



TYPICAL RAFTER / COLUMN FRAME SECTION

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0"-30'-0" WIDTH
16'-0" EAVE HEIGHT
145 WIND ZONE
35 P.S.F. SNOW

Project No. 0124-0071
Sheet No. S2A

Wesley Williams
335 Llyod Stewart Rd
Broadway, NC 27505

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

Date: 10/24/24
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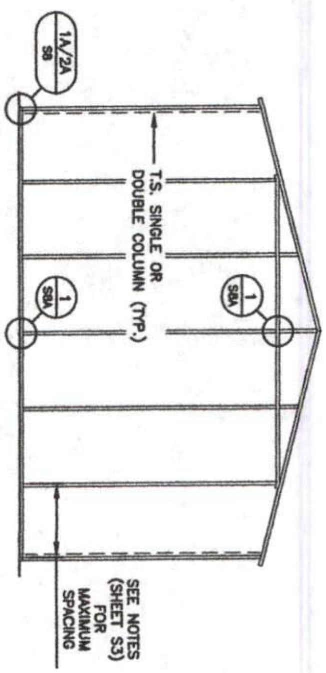
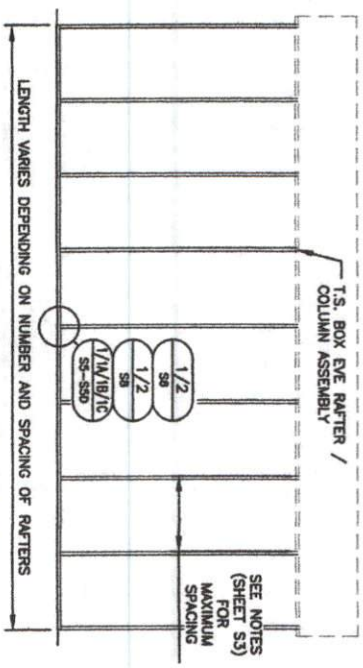
NORTH CAROLINA PROFESSIONAL SEAL 27874 ENGINEER JASON M. REEP
10/25/24

TYPICAL SIDE / END FRAMING ELEVATIONS



TYPICAL BOX EVE RAFTER / END WALL COLUMN FRAME SECTION

NOTE:
H.S.S. 2-1/2"x2-1/2"x14ga. OR 2-1/4"x2-1/4"x12ga.
MATERIAL MAY BE USED FOR TRUSS METAL.



TYPICAL RAFTER / COLUMN SIDE FRAME SECTION

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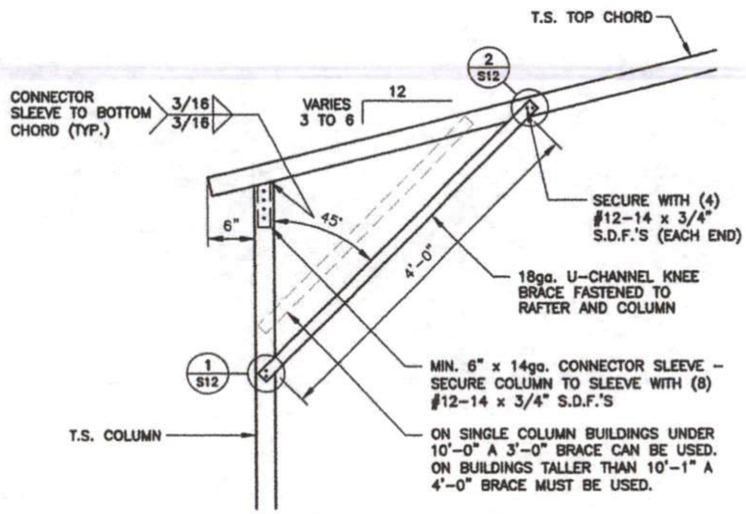
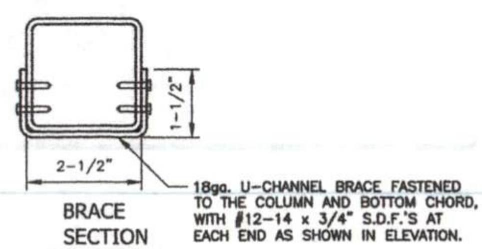
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 27874 JASON M. REEP 10/25/24	TAYLOR & VIOLA STRUCTURAL ENGINEERS P.O.B. 2616 HICKORY NORTH CAROLINA TELE: 828-328-6331 FAX: 828-322-1801 WWW. TAYLORVIOLA . COM V1.2	Wesley Williams 335 Llyod Stewart Rd Broadway, NC 27505	0"-30'-0" WIDTH 16'-0" EAVE HEIGHT 145 WIND ZONE 35 P.S.F. SNOW
Date: 10/24/24 Revisions: -	JCMT Associates, PLLC 211 Stone Drive, Pilot Mountain, NC 27041 Telephone: (336) 399-6277	Project No. 0124-0071	Sheet No. S3

DOUBLE COLUMN OPTIONS (<14-0" COLUMN HEIGHT)



1/S4 BOX EAVE / CORNER POST CONNECTION DETAIL FOR HEIGHTS <12'-0"

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



BRACE SECTION

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NORTH CAROLINA PROFESSIONAL SEAL 27874 ENGINEER JASON M. REEP
10/25/24

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V1.2

Wesley Williams
335 Llyod Stewart Rd
Broadway, NC 27505

0"-30'-0" WIDTH
16'-0" EAVE HEIGHT
145 WIND ZONE
35 P.S.F. SNOW

Date: 10/24/24

Revisions: -

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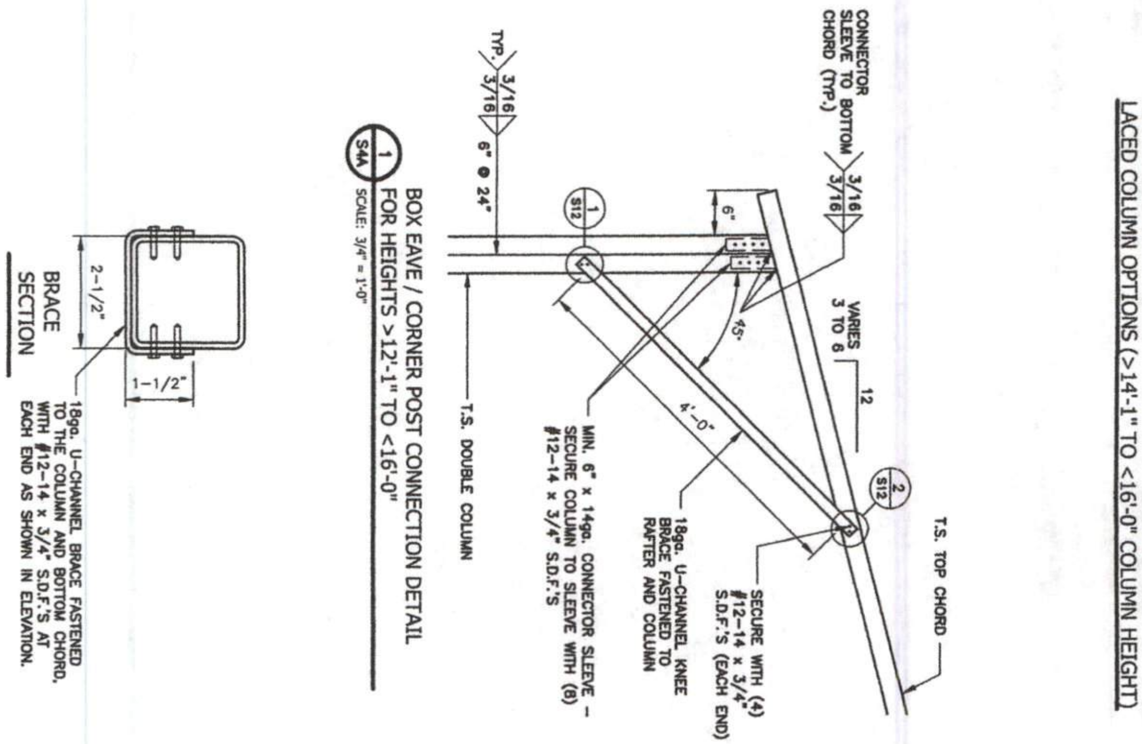
Project No. 0124-0071

Sheet No. S4



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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 27874 JASON M. REEP 10/25/24	TAYLOR & VIOLA STRUCTURAL ENGINEERS P.O.B. 2616 HICKORY NORTH CAROLINA TELE: 828-328-6331 FAX: 828-322-1801 WWW . TAYLORVIOLA . COM V1.2	Wesley Williams 335 Llyod Stewart Rd Broadway, NC 27505	0"-30'-0" WIDTH 16'-0" EAVE HEIGHT 145 WIND ZONE 35 P.S.F. SNOW
	Date: 10/24/24 Revisions: -	JCMT Associates, PLLC 211 Stone Drive, Pilot Mountain, NC 27041 Telephone: (336) 399-6277	Project No. 0124-0071 Sheet No. S4A

SINGLE COLUMN OPTIONS (ANCHOR BOLTS)

ANCHORAGE BOLT SCHEDULE	
WIND SPEED	BOLT SIZE
UP TO 115 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 125 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 135 M.P.H.	1/2" x 9" EXPANSION ANCHOR
UP TO 145 M.P.H.	1/2" x 9" EXPANSION ANCHOR

GENERAL NOTES:

ALL CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1,500 P.S.F.

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

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

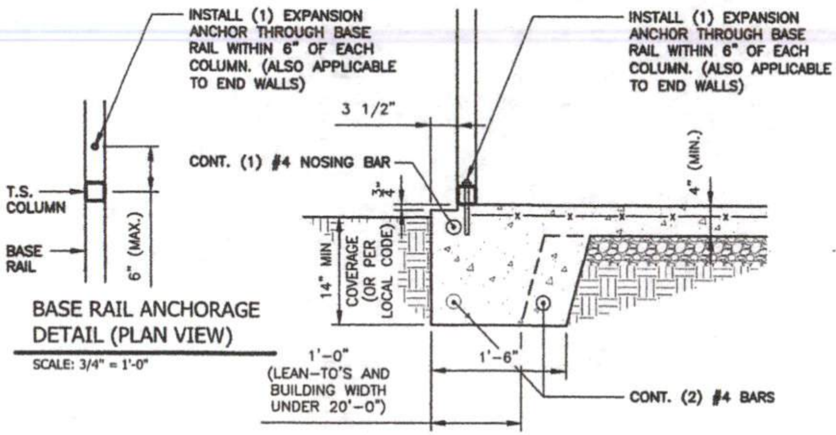
REINFORCING STEEL:

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

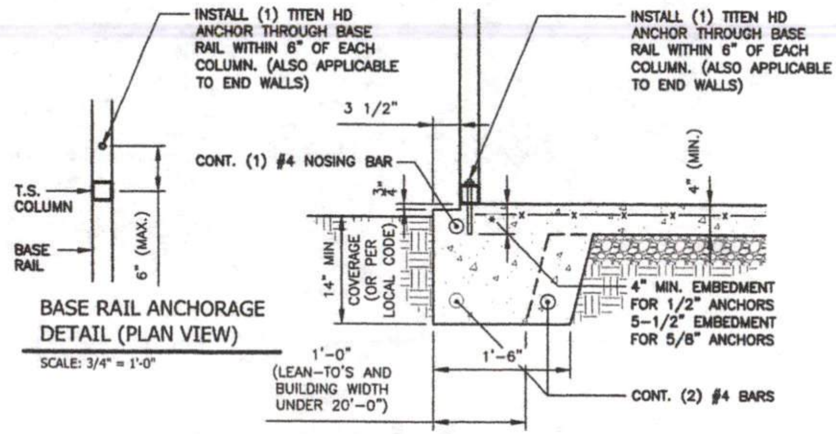
REINFORCEMENT MAY BE BENT IN THE SHOP OR IN THE FIELD PROVIDED:
1. REINFORCEMENT IS BENT COLD.
2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.
3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.

SINGLE COLUMN OPTIONS (TITEN HD ANCHORS)

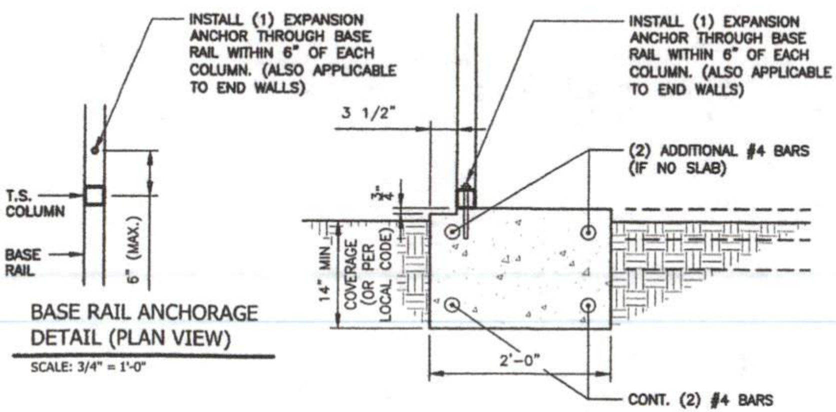
ANCHORAGE BOLT SCHEDULE	
WIND SPEED	BOLT SIZE
UP TO 110 M.P.H.	1/2" x 4" EMBEDMENT (TITEN HD)
UP TO 120 M.P.H.	1/2" x 4" EMBEDMENT (TITEN HD)
UP TO 130 M.P.H.	5/8" x 5-1/2" EMBEDMENT (TITEN HD)
UP TO 140 M.P.H.	5/8" x 5-1/2" EMBEDMENT (TITEN HD)



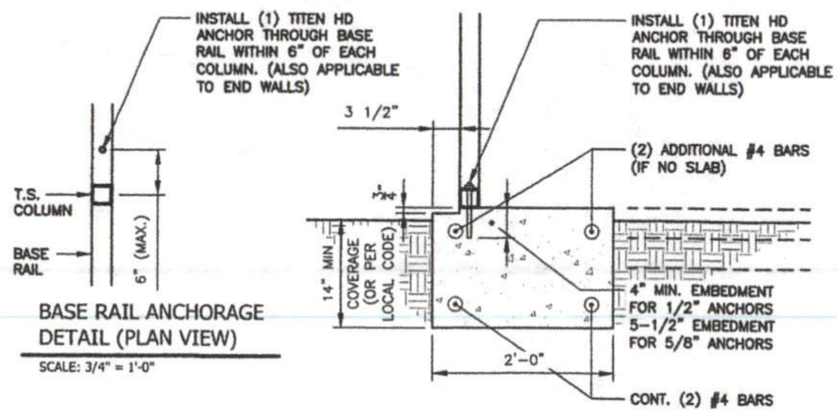
1 / S5 BASE RAIL ANCHORAGE DETAIL
SCALE: 3/4" = 1'-0"



1B / S5 BASE RAIL ANCHORAGE DETAIL (TITEN HD)
SCALE: 3/4" = 1'-0"



1A / S5 BASE RAIL ANCHORAGE DETAIL (NO SLAB)
SCALE: 3/4" = 1'-0"



1C / S5 BASE RAIL ANCHORAGE DETAIL (NO SLAB - TITEN HD)
SCALE: 3/4" = 1'-0"

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

0"-30'-0" WIDTH
16'-0" EAVE HEIGHT
145 WIND ZONE
35 P.S.F. SNOW

Wesley Williams
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Project No. 0124-0071
Sheet No. S5
Date: 10/24/24
Revisions: -

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NORTH CAROLINA PROFESSIONAL SEAL 27874 ENGINEER JASON M. REEP
10/25/24

SINGLE COLUMN OPTIONS - NO SIDING LEDGE (ANCHOR BOLTS)

ANCHORAGE BOLT SCHEDULE	
WIND SPEED	BOLT SIZE
UP TO 115 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 125 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 135 M.P.H.	1/2" x 9" EXPANSION ANCHOR
UP TO 145 M.P.H.	1/2" x 9" EXPANSION ANCHOR

GENERAL NOTES:

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SINGLE COLUMN OPTIONS - NO SIDING LEDGE (TITEN HD ANCHORS)

ANCHORAGE BOLT SCHEDULE	
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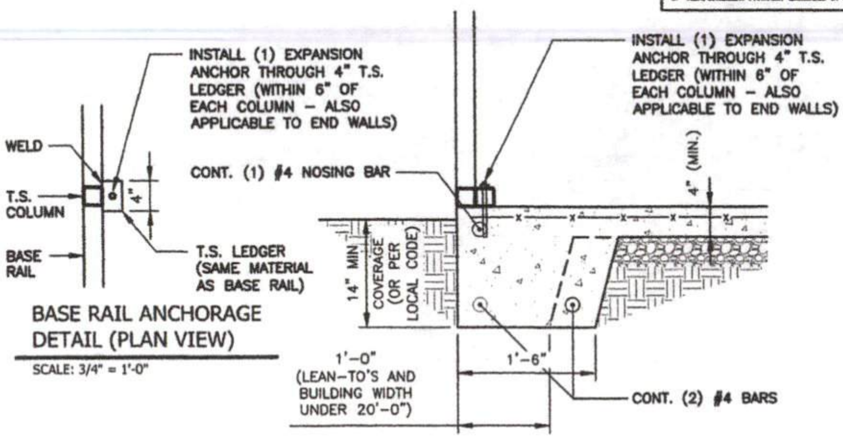
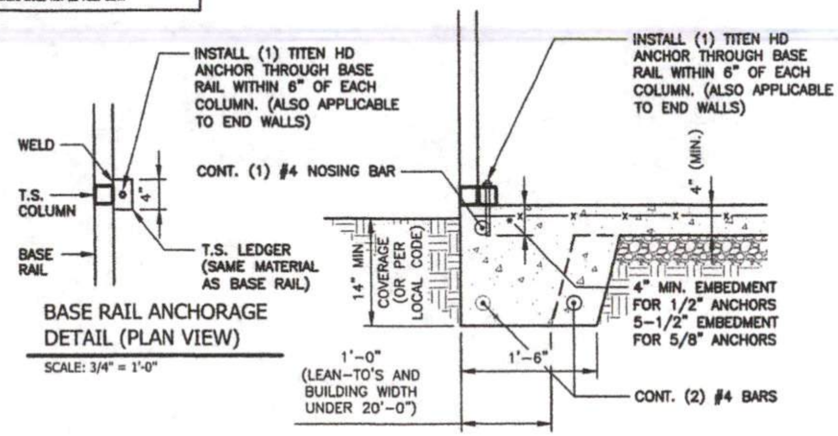
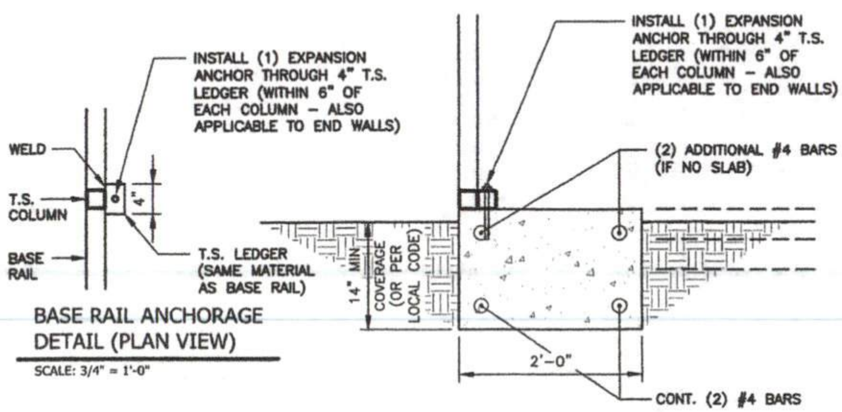
UP TO 130 M.P.H.	5/8" x 5-1/2" EMBEDMENT (TITEN HD)
UP TO 140 M.P.H.	5/8" x 5-1/2" EMBEDMENT (TITEN HD)



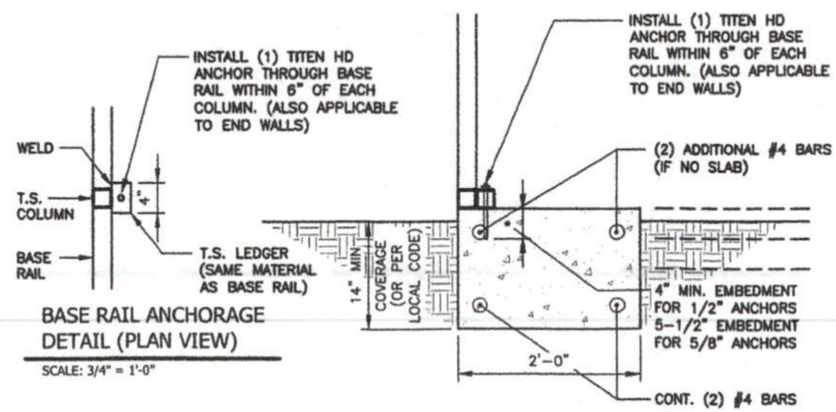
1 / S5A BASE RAIL ANCHORAGE DETAIL
SCALE: 3/4" = 1'-0"



1B / S5A BASE RAIL ANCHORAGE DETAIL (TITEN HD)
SCALE: 3/4" = 1'-0"



1A / S5A BASE RAIL ANCHORAGE DETAIL (NO SLAB)
SCALE: 3/4" = 1'-0"



1C / S5A BASE RAIL ANCHORAGE DETAIL (NO SLAB - TITEN HD)
SCALE: 3/4" = 1'-0"

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

0"-30'-0" WIDTH
16'-0" EAVE HEIGHT
145 WIND ZONE
35 P.S.F. SNOW

Project No. 0124-0071
Sheet No. S5A

Wesley Williams
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Date: 10/24/24
Revisions:

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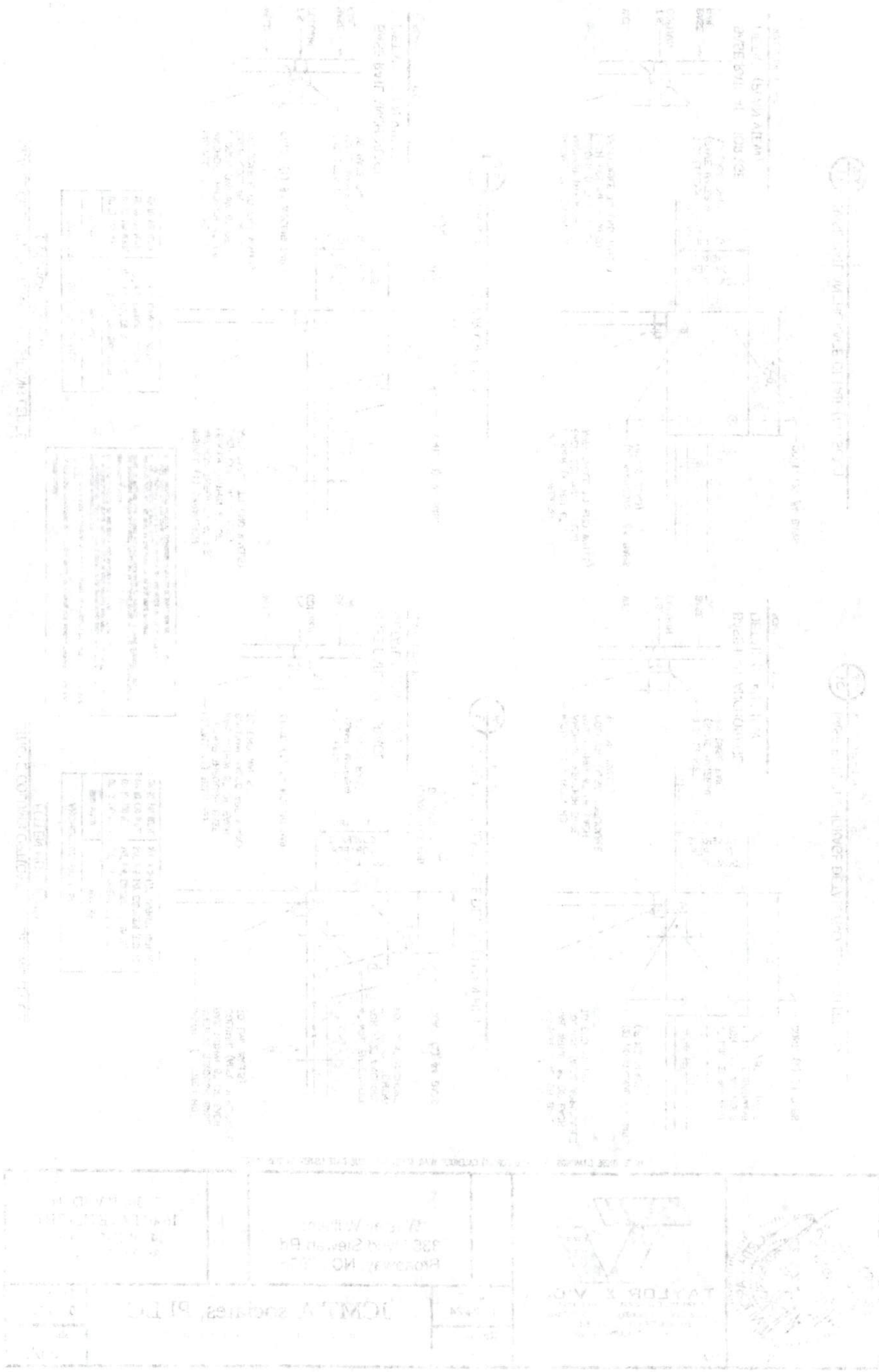
NORTH CAROLINA PROFESSIONAL SEAL 27874 ENGINEER JASON M. REEP
10/25/24



SINGLE COLUMN OPTIONS - NO SIDING LEDGE (ANCHOR BOLTS)

ANCHORAGE BOLT SCHEDULE	
WIND SPEED	BOLT SIZE
UP TO 115 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 125 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 135 M.P.H.	1/2" x 9" EXPANSION ANCHOR
UP TO 145 M.P.H.	1/2" x 9" EXPANSION ANCHOR

GENERAL NOTES:

ALL CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1,500 P.S.F.

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

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

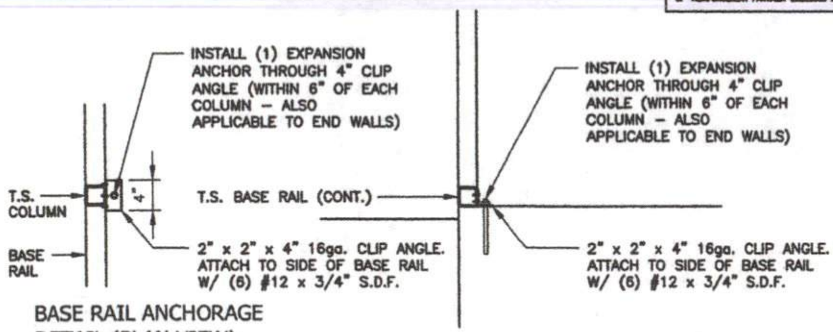
REINFORCING STEEL:

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

REINFORCEMENT MAY BE BENT IN THE SHOP OR IN 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.

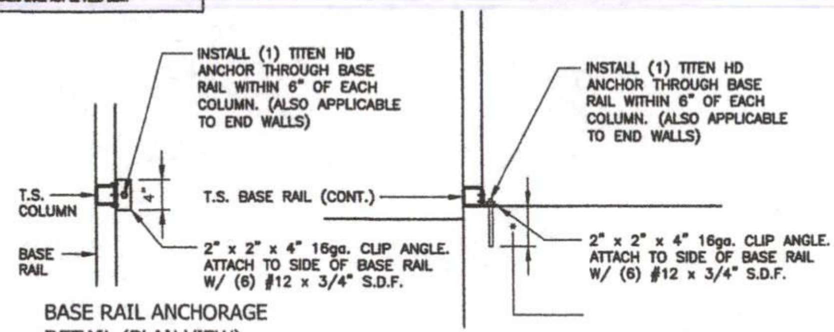
SINGLE COLUMN OPTIONS - NO SIDING LEDGE (TITEN HD ANCHORS)

ANCHORAGE BOLT SCHEDULE	
WIND SPEED	BOLT SIZE
UP TO 110 M.P.H.	1/2" x 4" EMBEDMENT (TITEN HD)
UP TO 120 M.P.H.	1/2" x 4" EMBEDMENT (TITEN HD)
UP TO 130 M.P.H.	5/8" x 5-1/2" EMBEDMENT (TITEN HD)
UP TO 140 M.P.H.	5/8" x 5-1/2" EMBEDMENT (TITEN HD)



BASE RAIL ANCHORAGE DETAIL (PLAN VIEW)
SCALE: 3/4" = 1'-0"

1 / S5B (ALTERNATE) BASE RAIL ANCHORAGE DETAIL
SCALE: 3/4" = 1'-0"



BASE RAIL ANCHORAGE DETAIL (PLAN VIEW)
SCALE: 3/4" = 1'-0"

1A / S5B (ALTERNATE) BASE RAIL ANCHORAGE DETAIL (TITEN HD)
SCALE: 3/4" = 1'-0"

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

0"-30'-0" WIDTH
16'-0" EAVE HEIGHT
145 WIND ZONE
35 P.S.F. SNOW

Project No. 0124-0071
Sheet No. S5B

Wesley Williams
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Date: 10/24/24
Revisions: -

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NORTH CAROLINA PROFESSIONAL SEAL 27874 ENGINEER JASON M. REEP
10/25/24

DOUBLE COLUMN OPTIONS (ANCHOR BOLTS)

ANCHORAGE BOLT SCHEDULE	
WIND SPEED	BOLT SIZE
UP TO 115 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 125 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 135 M.P.H.	1/2" x 9" EXPANSION ANCHOR
UP TO 145 M.P.H.	1/2" x 9" EXPANSION ANCHOR

GENERAL NOTES:

ALL CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1,500 P.S.F.

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REINFORCEMENT MAY BE BENT IN THE SHOP OR IN THE FIELD PROVIDED:
1. REINFORCEMENT IS BENT COLD.
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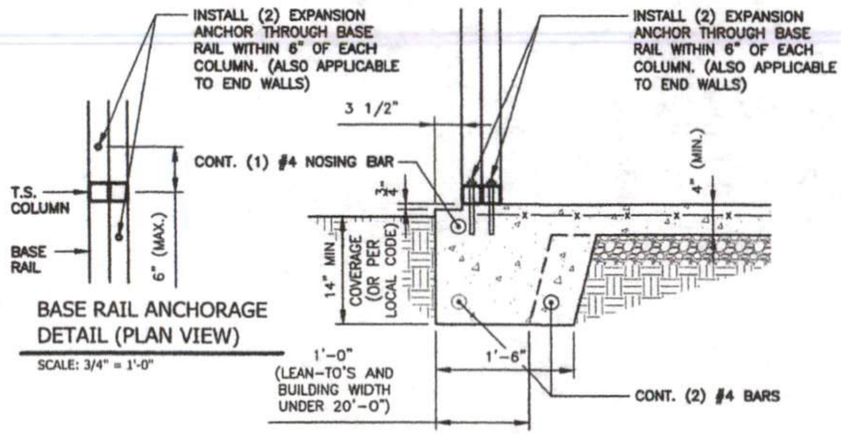
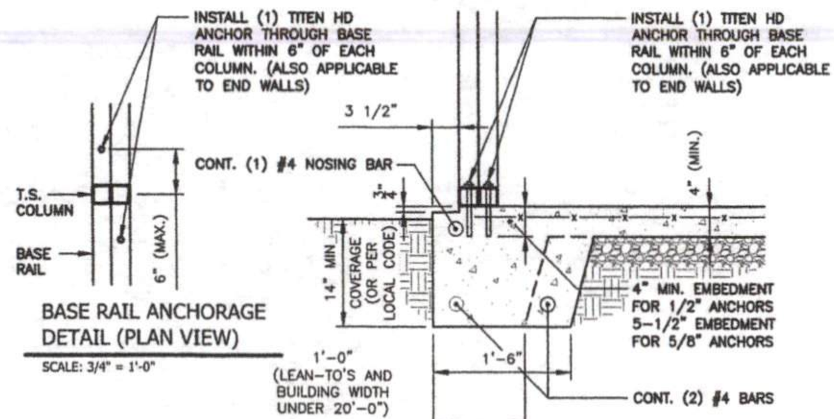
3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.

DOUBLE COLUMN OPTIONS (TITEN HD ANCHORS)

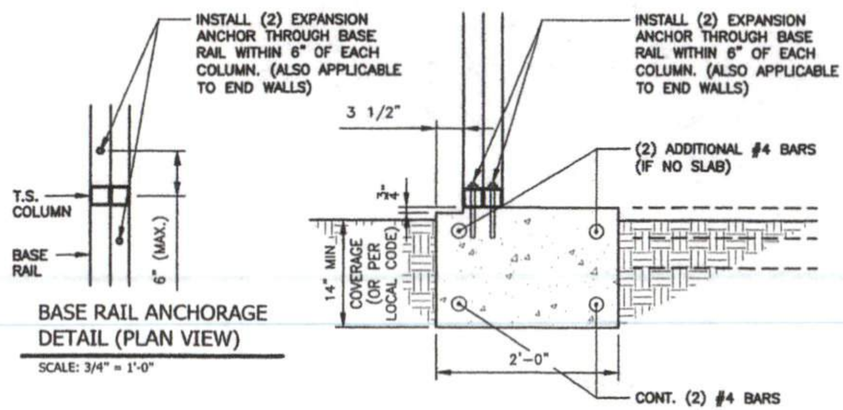
ANCHORAGE BOLT SCHEDULE	
WIND SPEED	BOLT SIZE
UP TO 110 M.P.H.	1/2" x 4" EMBEDMENT (TITEN HD)
UP TO 120 M.P.H.	1/2" x 4" EMBEDMENT (TITEN HD)
UP TO 130 M.P.H.	5/8" x 5-1/2" EMBEDMENT (TITEN HD)
UP TO 140 M.P.H.	5/8" x 5-1/2" EMBEDMENT (TITEN HD)



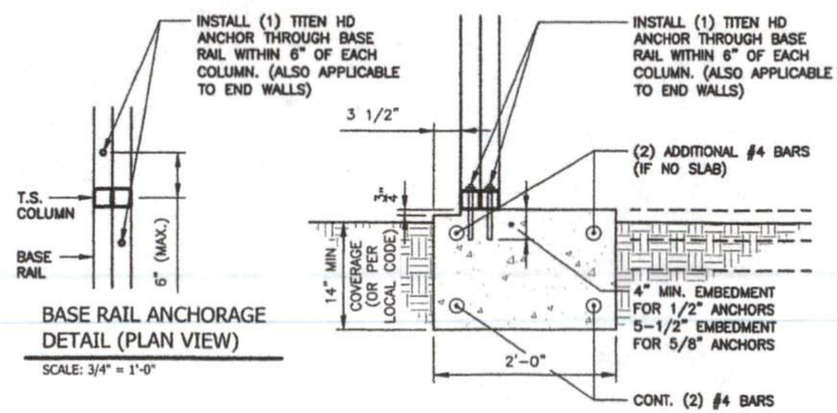
1 / S5C BASE RAIL ANCHORAGE DETAIL
SCALE: 3/4" = 1'-0"



1B / S5C BASE RAIL ANCHORAGE DETAIL (TITEN HD)
SCALE: 3/4" = 1'-0"



1A / S5C BASE RAIL ANCHORAGE DETAIL (NO SLAB)
SCALE: 3/4" = 1'-0"



1C / S5C BASE RAIL ANCHORAGE DETAIL (NO SLAB - TITEN HD)
SCALE: 3/4" = 1'-0"

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

0"-30'-0" WIDTH
16'-0" EAVE HEIGHT
145 WIND ZONE
35 P.S.F. SNOW

Project No. 0124-0071
Sheet No. S5C

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Date: 10/24/24
Revisions: -

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NORTH CAROLINA PROFESSIONAL SEAL 27874 ENGINEER JASON M. REEP
10/25/24

DOUBLE COLUMN OPTIONS - NO SIDING LEDGE (ANCHOR BOLTS)

ANCHORAGE BOLT SCHEDULE	
WIND SPEED	BOLT SIZE
UP TO 115 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 125 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 135 M.P.H.	1/2" x 9" EXPANSION ANCHOR
UP TO 145 M.P.H.	1/2" x 9" EXPANSION ANCHOR

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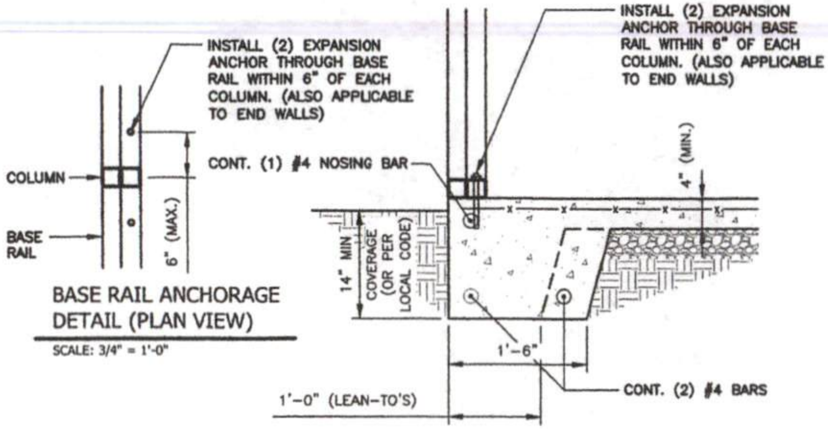
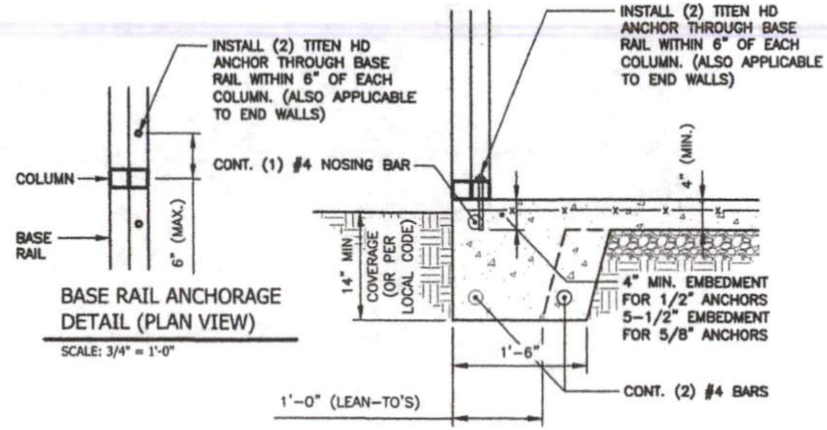
DOUBLE COLUMN OPTIONS - NO SIDING LEDGE (TITEN HD ANCHORS)

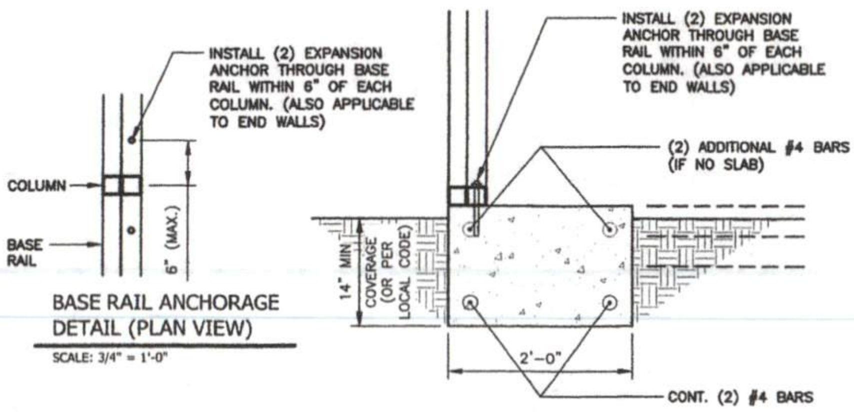
ANCHORAGE BOLT SCHEDULE	
WIND SPEED	BOLT SIZE
UP TO 110 M.P.H.	1/2" x 4" EMBEDMENT (TITEN HD)
UP TO 120 M.P.H.	1/2" x 4" EMBEDMENT (TITEN HD)
UP TO 130 M.P.H.	5/8" x 5-1/2" EMBEDMENT (TITEN HD)
UP TO 140 M.P.H.	5/8" x 5-1/2" EMBEDMENT (TITEN HD)



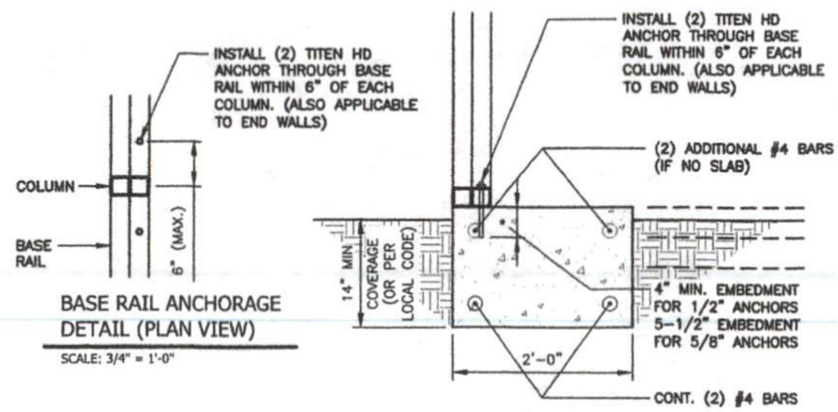
1 S5D BASE RAIL ANCHORAGE DETAIL
SCALE: 3/4" = 1'-0"



1B S5D BASE RAIL ANCHORAGE DETAIL
SCALE: 3/4" = 1'-0"



1A S5D BASE RAIL ANCHORAGE DETAIL (NO SLAB)
SCALE: 3/4" = 1'-0"



1C S5D BASE RAIL ANCHORAGE DETAIL (NO SLAB)
SCALE: 3/4" = 1'-0"

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

0"-30'-0" WIDTH
16'-0" EAVE HEIGHT
145 WIND ZONE
35 P.S.F. SNOW

Project No. 0124-0071
Sheet No. S5D

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Date: 10/24/24
Revisions: -

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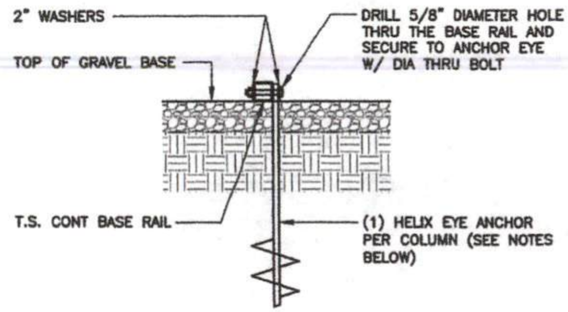
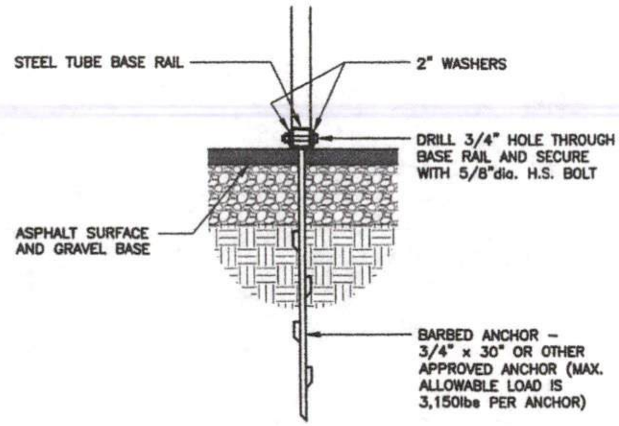
NORTH CAROLINA PROFESSIONAL SEAL 27874 ENGINEER JASON M. REEP
10/25/24

ALTERNATE ANCHORAGE OPTIONS



1/S6 BASE RAIL ANCHORAGE DETAIL
SCALE: 3/4" = 1'-0"



2/S6 ASPHALT / BASE RAIL ANCHORAGE DETAIL
SCALE: 3/4" = 1'-0"

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

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 – ONE EACH END BASE RAIL AND 25'–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 25'–0"oc MAX. WITH #4 REBAR AT 5'–0"oc BETWEEN.

FOR MED DENSE COARSE SANDS, SANDY GRAVEL, VERY STIFF SILTS, AND CLAYS, USE MIN (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH 50" EMBEDMENT – ONE EACH END BASE RAIL AND 25'–0"oc MAX. WITH #4 REBAR AT 5'–0"oc BETWEEN.

FOR LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS, USE MIN (2) 6" HELICES WITH MINIMUM 50" EMBEDMENT – ONE EACH END BASE RAIL AND 25'–0"oc MAX. WITH #4 REBAR AT 5'–0"oc BETWEEN.

FOR VERY LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS AND ALLUVIAL FILL, USE MIN (2) 8" HELICES WITH MINIMUM 60" EMBEDMENT – ONE EACH END BASE RAIL AND 25'–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.

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

0"-30'-0" WIDTH
16'-0" EAVE HEIGHT
145 WIND ZONE
35 P.S.F. SNOW

Project No. 0124-0071
Sheet No. S6

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Date: 10/24/24
Revisions: -

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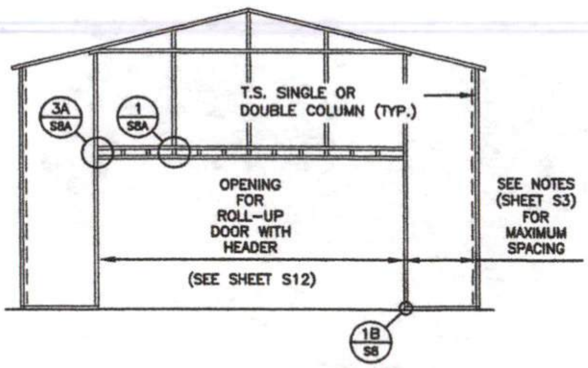
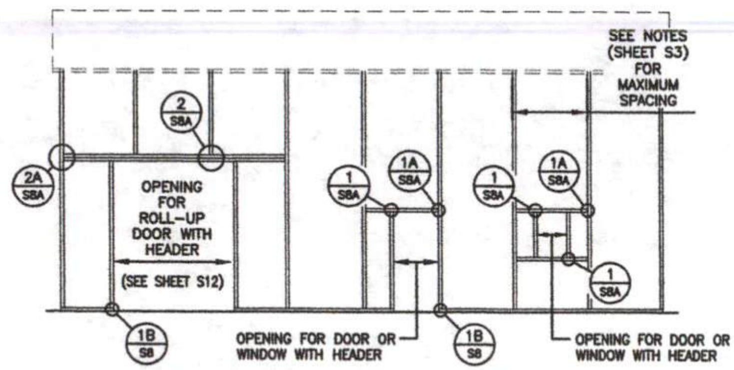
NORTH CAROLINA PROFESSIONAL SEAL 27874 ENGINEER JASON M. REEP
10/25/24

TYPICAL SIDE / END WALL OPENING FRAMING SECTIONS

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



TYPICAL END WALL FRAMING SECTION



TYPICAL SIDE WALL OPENING FRAMING SECTION

NOTE:
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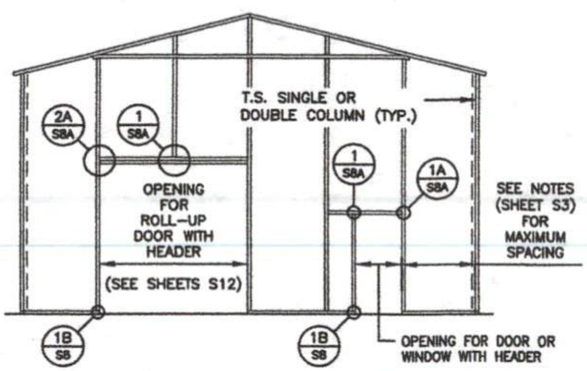
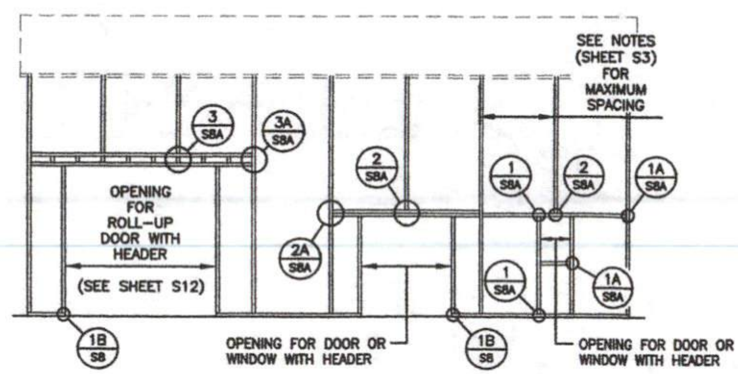


TYPICAL END WALL FRAMING SECTION



TYPICAL SIDE WALL OPENING FRAMING SECTION

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

0'-30'-0" WIDTH
16'-0" EAVE HEIGHT
145 WIND ZONE
35 P.S.F. SNOW

Project No. 0124-0071

Sheet No. S7

Wesley Williams
335 Llyod Stewart Rd
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211 Stone Drive, Pilot Mountain, NC 27041
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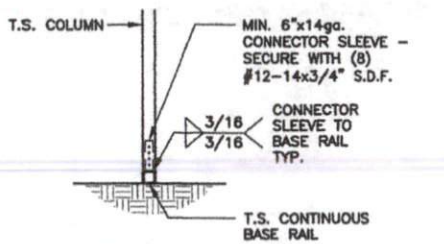
NORTH CAROLINA PROFESSIONAL SEAL 27874 ENGINEER JASON M. REEP
10/25/24

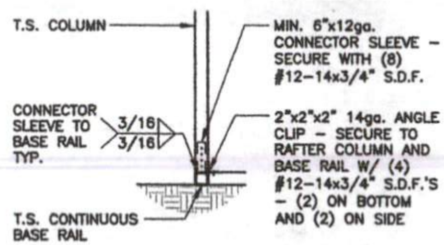
BASE RAIL CONNECTION DETAILS



COLUMN / BASE RAIL CONNECTION DETAIL

1 / S8

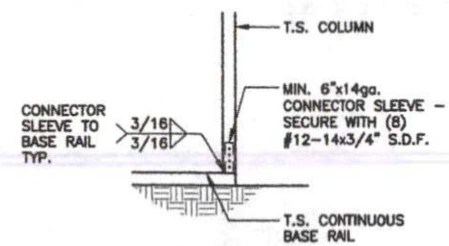
SCALE: 1/2" = 1'-0"



END COLUMN / BASE RAIL CONNECTION DETAIL

1A / S8

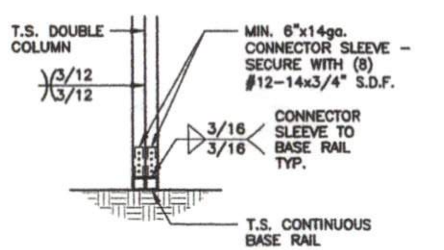
SCALE: 1/2" = 1'-0"



COLUMN / BASE RAIL CONNECTION DETAIL

1B / S8

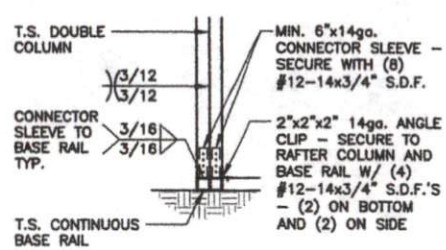
SCALE: 1/2" = 1'-0"



COLUMN / BASE RAIL CONNECTION DETAIL

2 / S8

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



END COLUMN / BASE RAIL CONNECTION DETAIL

2A / S8

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

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

0"-30'-0" WIDTH
16'-0" EAVE HEIGHT
145 WIND ZONE
35 P.S.F. SNOW

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Project No. 0124-0071

Sheet No. S8

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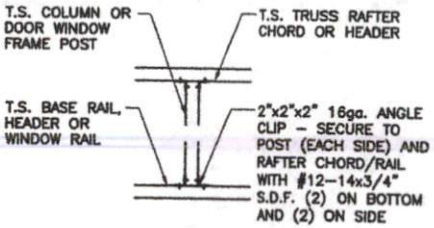
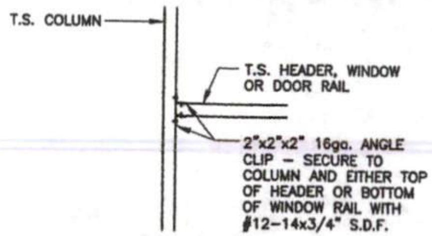
NORTH CAROLINA PROFESSIONAL SEAL 27874 ENGINEER JASON M. REEP

10/25/24

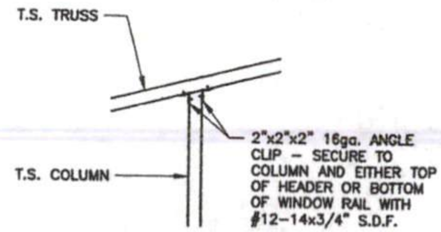
CONNECTION DETAILS



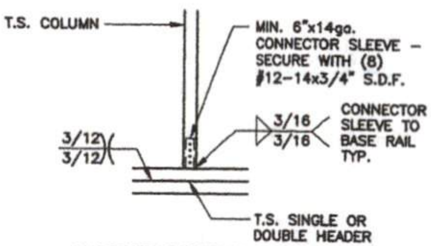
1 / S8A POST TO TRUSS / HEADER CONNECTION DETAIL
SCALE: 1/2" = 1'-0"



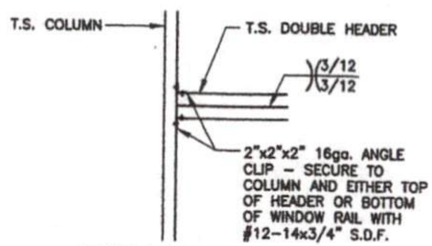
1A / S8A HEADER RAIL TO POST CONNECTION DETAIL
SCALE: 1/2" = 1'-0"



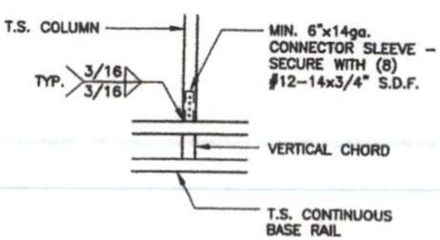
1B / S8A POST TO TRUSS CONNECTION DETAIL
SCALE: 1/2" = 1'-0"



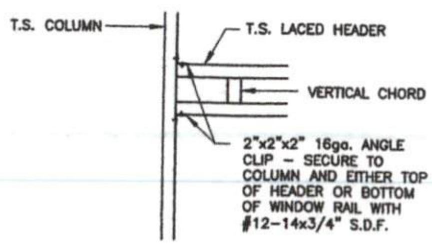
2 / S8A POST TO DOUBLE HEADER CONNECTION DETAIL
SCALE: 1/2" = 1'-0"



2A / S8A DOUBLE HEADER TO POST CONNECTION DETAIL
SCALE: 1/2" = 1'-0"



3 / S8A POST TO LACED HEADER CONNECTION DETAIL
SCALE: 1/2" = 1'-0"



3A / S8A LACED HEADER TO POST CONNECTION DETAIL
SCALE: 1/2" = 1'-0"

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

0"-30'-0" WIDTH
16'-0" EAVE HEIGHT
145 WIND ZONE
35 P.S.F. SNOW

Project No. 0124-0071
Sheet No. S8A

Wesley Williams
335 Llyod Stewart Rd
Broadway, NC 27505

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

Date: 10/24/24
Revisions: -

TAYLOR & VIOLA
STRUCTURAL ENGINEERS
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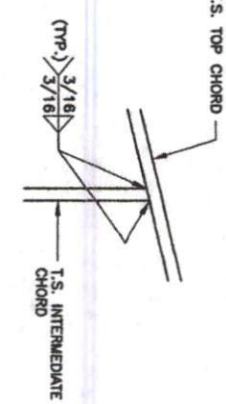
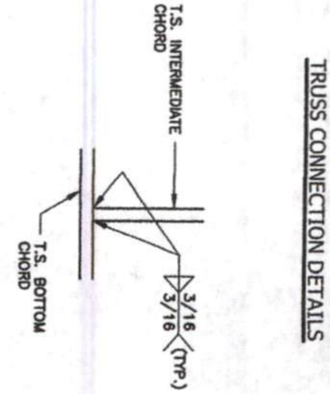
NORTH CAROLINA PROFESSIONAL SEAL 27874 ENGINEER JASON M. REEP
10/25/24

TRUSS CONNECTION DETAILS



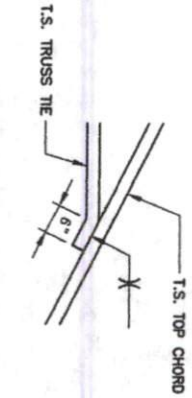
1 / S8B INTERMEDIATE CHORD / TOP CHORD CONNECTION DETAIL

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



2 / S8B INTERMEDIATE CHORD / BOTTOM CHORD CONNECTION DETAIL

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



3 / S8B TRUSS TIE / TOP CHORD CONNECTION DETAIL

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

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

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 27874 JASON M. REEP 10/25/24

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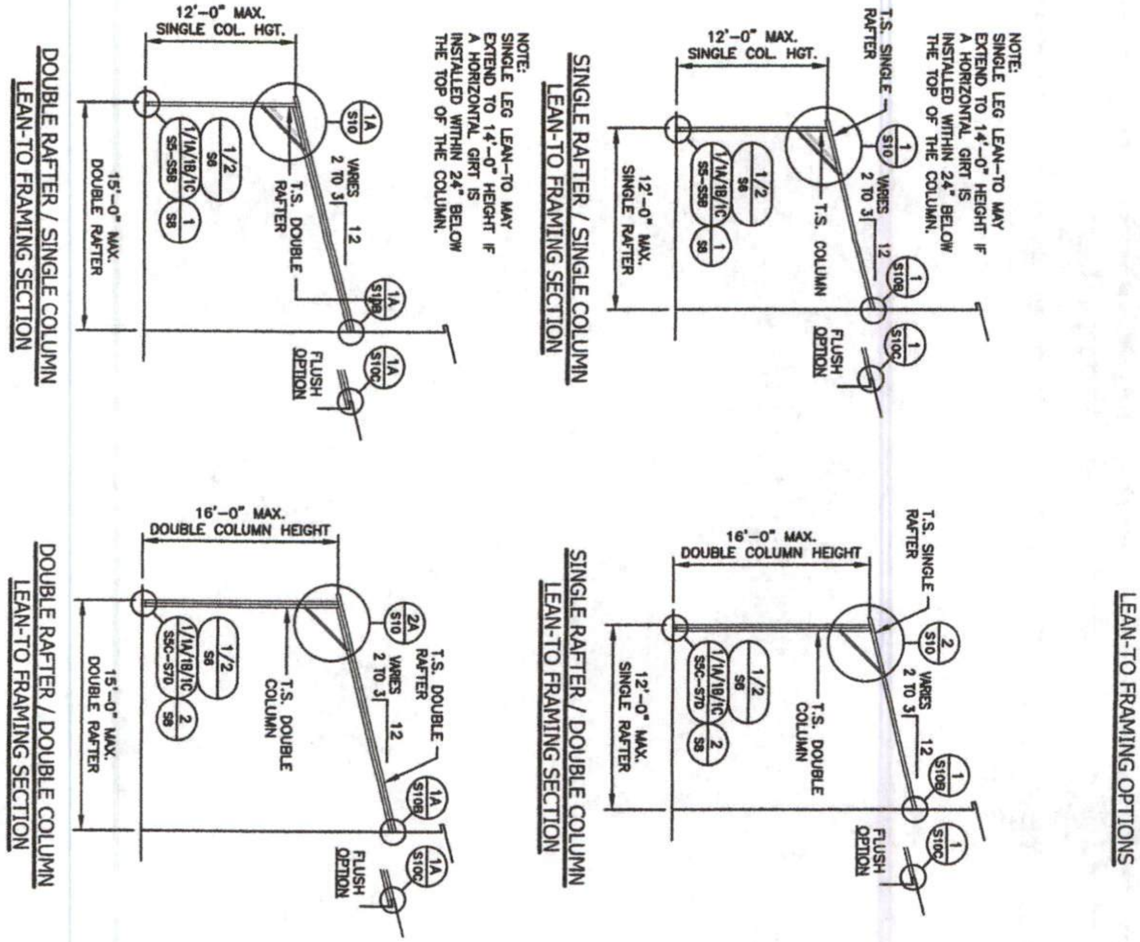
Wesley Williams
335 Llyod Stewart Rd
Broadway, NC 27505

0"-30'-0" WIDTH
16'-0" EAVE HEIGHT
145 WIND ZONE
35 P.S.F. SNOW

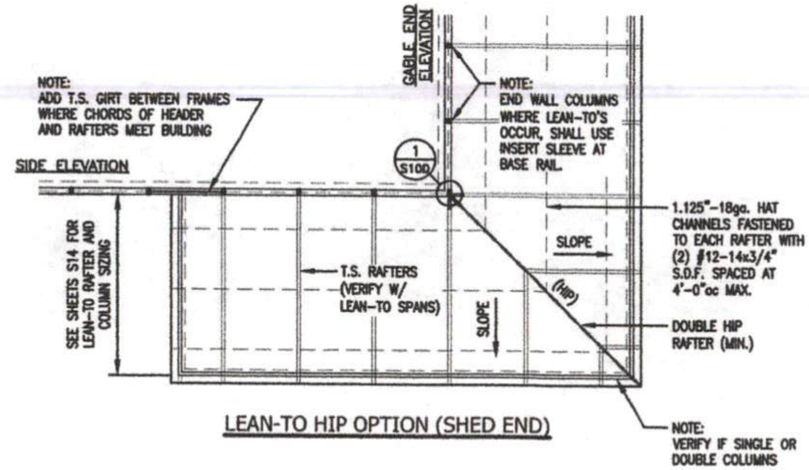
Date: 10/24/24	JCMT Associates, PLLC	Project No. 0124-0071
Revisions: -	211 Stone Drive, Pilot Mountain, NC 27041 Telephone: (336) 399-6277	Sheet No. S8B



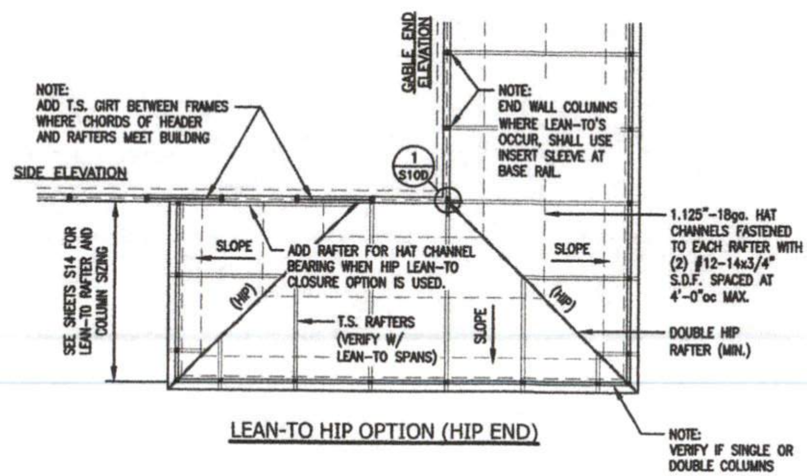
NOTE: THESE DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THIS SHEET.

NORTH CAROLINA PROFESSIONAL SEAL 27874 ENGINEER JASON M. REEP 10/25/24	TAYLOR & VIOLA STRUCTURAL ENGINEERS P.O.B. 2616 HICKORY NORTH CAROLINA TELE: 828-328-6331 FAX: 828-322-1801 WWW.TAYLORVIOLA.COM V1.2	Date: 10/24/24 Revisions: -	Wesley Williams 335 Llyod Stewart Rd Broadway, NC 27505 JCMT Associates, PLLC 211 Stone Drive, Pilot Mountain, NC 27041 Telephone: (336) 399-6277	0"-30'-0" WIDTH 16'-0" EAVE HEIGHT 145 WIND ZONE 35 P.S.F. SNOW Project No. 0124-0071 Sheet No. S9

LEAN-TO HIP FRAMING OPTIONS



LEAN-TO HIP OPTION (SHED END)



LEAN-TO HIP OPTION (HIP END)

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

NORTH CAROLINA PROFESSIONAL SEAL 27874 ENGINEER JASON M. REEP
10/25/24

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Wesley Williams
335 Llyod Stewart Rd
Broadway, NC 27505

0"-30'-0" WIDTH
16'-0" EAVE HEIGHT
145 WIND ZONE
35 P.S.F. SNOW

Date: 10/24/24

Revisions: -

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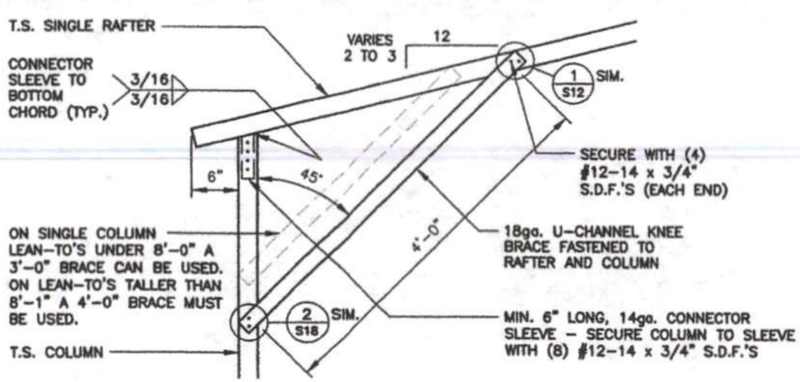
Project No. 0124-0071

Sheet No. S9A

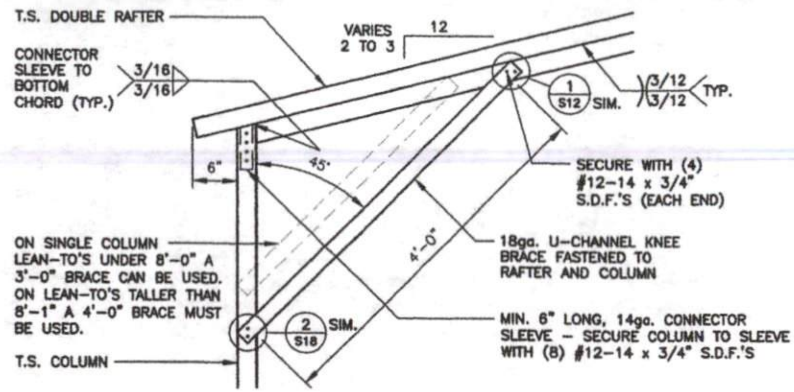
Wesley Williams
3381 Lloyd Stewart Rd

CMT Associates, P.L.L.C.

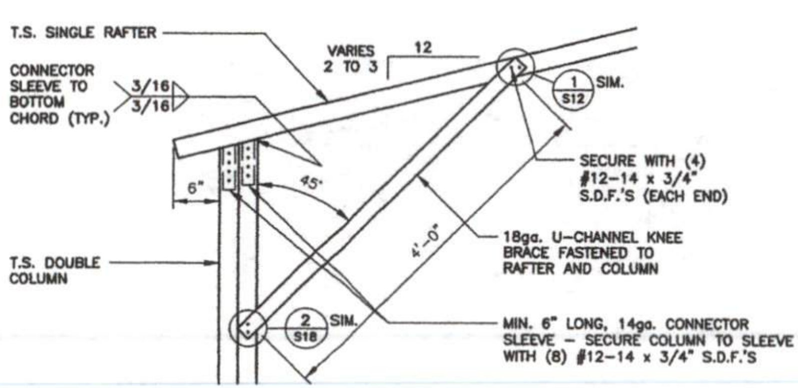
LEAN-TO FRAMING OPTIONS



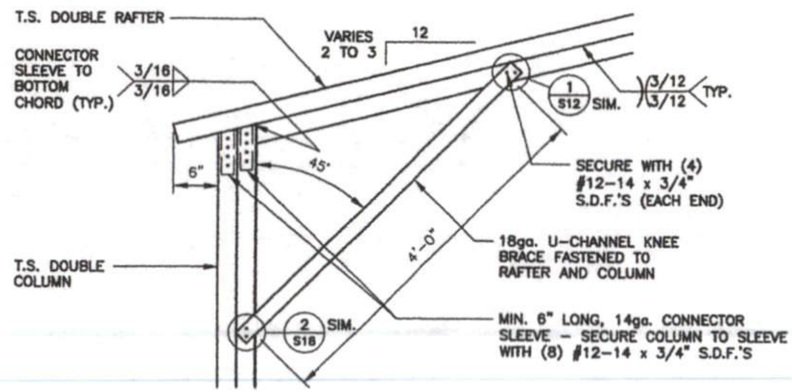
1 / S12 LEAN-TO SINGLE RAFTER / SINGLE COLUMN CONNECTION DETAIL
SCALE: 3/4" = 1'-0"



1A / S10 LEAN-TO DOUBLE RAFTER / SINGLE COLUMN CONNECTION DETAIL
SCALE: 3/4" = 1'-0"



2 / S10 LEAN-TO SINGLE RAFTER / DOUBLE COLUMN CONNECTION DETAIL
SCALE: 3/4" = 1'-0"



2A / S10 LEAN-TO DOUBLE RAFTER / DOUBLE COLUMN CONNECTION DETAIL
SCALE: 3/4" = 1'-0"

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

0"-30'-0" WIDTH
16'-0" EAVE HEIGHT
145 WIND ZONE
35 P.S.F. SNOW

Project No. 0124-0071

Sheet No. S10

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Date: 10/24/24

Revisions: -

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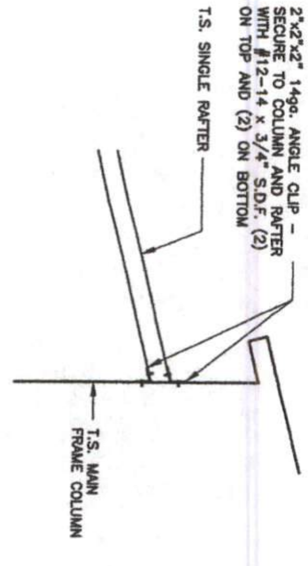
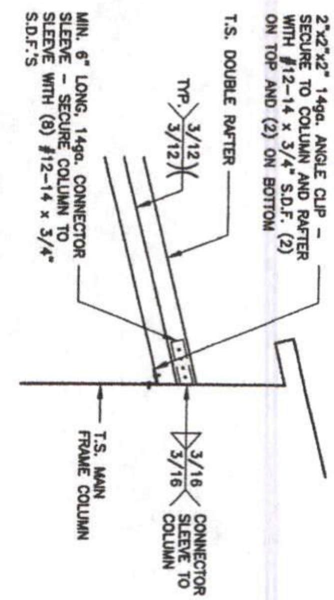
NORTH CAROLINA PROFESSIONAL SEAL 27874 ENGINEER JASON M. REEP
10/25/24

LEAN-TO FRAMING OPTIONS



1 / S10B — LEAN-TO SINGLE RAFTER / BUILDING FRAME CONNECTION DETAIL

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



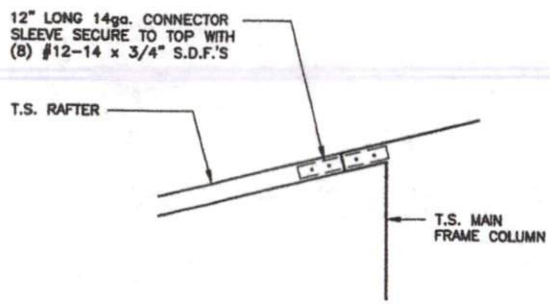
1A / S10B — LEAN-TO DOUBLE RAFTER / BUILDING FRAME CONNECTION DETAIL

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

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

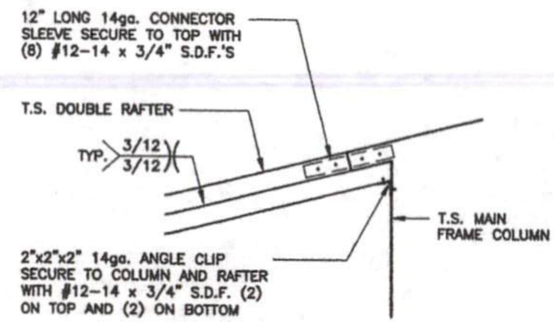
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 27874 JASON M. REEP 10/25/24	TAYLOR & VIOLA STRUCTURAL ENGINEERS P.O.B. 2616 HICKORY NORTH CAROLINA TELE: 828-328-6331 FAX: 828-322-1801 WWW.TAYLORVIOLA.COM V1.2	Date: 10/24/24 Revisions: -	Wesley Williams 335 Llyod Stewart Rd Broadway, NC 27505 / JCMT Associates, PLLC 211 Stone Drive, Pilot Mountain, NC 27041 Telephone: (336) 399-6277	0"-30'-0" WIDTH 16'-0" EAVE HEIGHT 145 WIND ZONE 35 P.S.F. SNOW / Project No. 0124-0071 / Sheet No. S10B

LEAN-TO FRAMING OPTIONS



1 / S10C — LEAN-TO SINGLE RAFTER / BUILDING FRAME (FLUSH) CONNECTION DETAIL

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



1A / S10C — LEAN-TO SINGLE RAFTER / BUILDING FRAME (FLUSH) CONNECTION DETAIL

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

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

0"-30'-0" WIDTH
16'-0" EAVE HEIGHT
145 WIND ZONE
35 P.S.F. SNOW

Wesley Williams
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211 Stone Drive, Pilot Mountain, NC 27041
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Project No. 0124-0071

Sheet No. S10C

Date: 10/24/24

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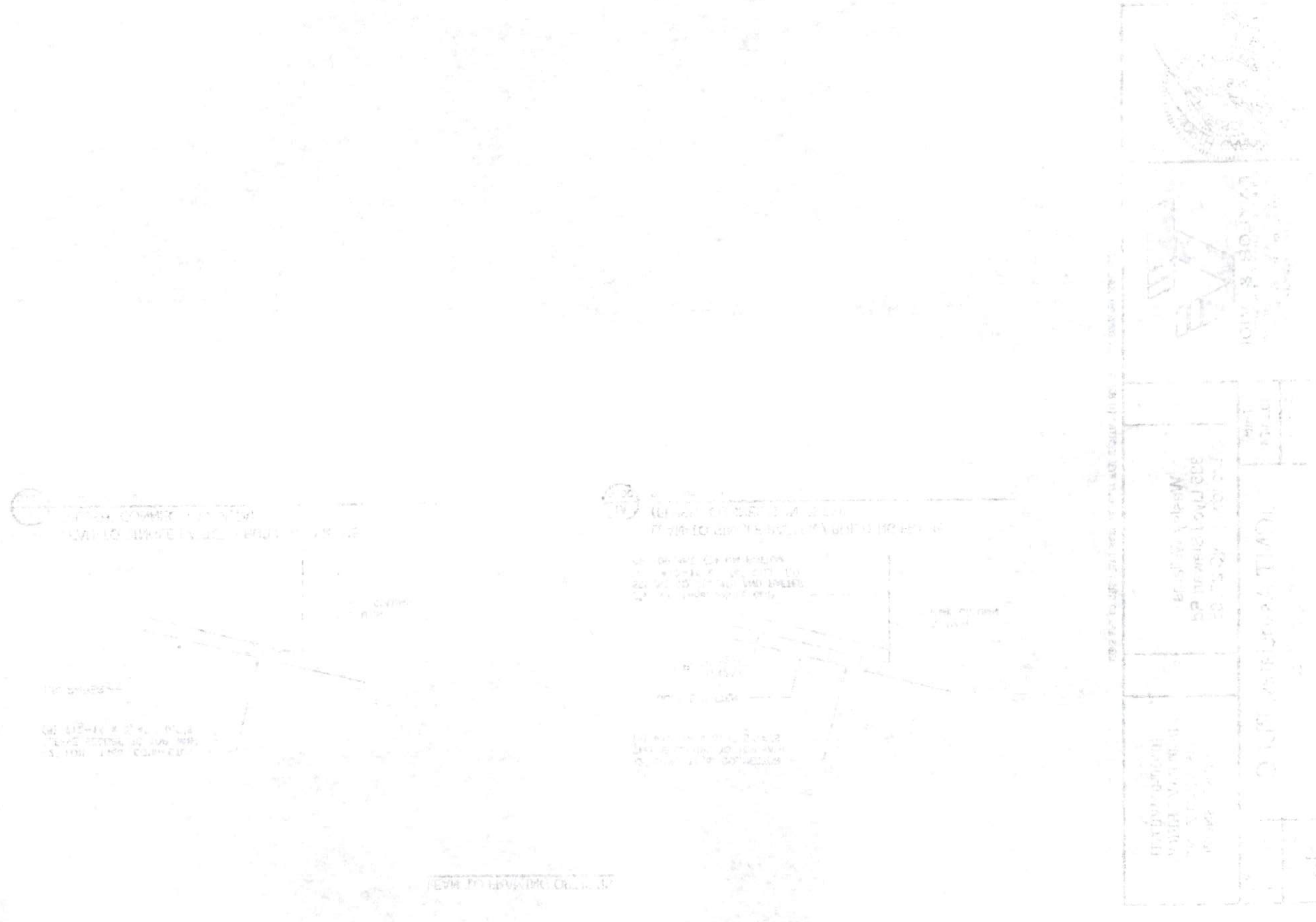
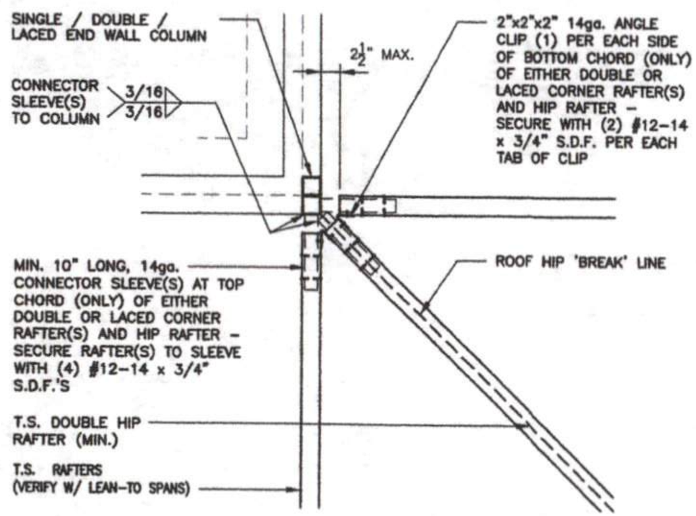
NORTH CAROLINA PROFESSIONAL SEAL 27874 ENGINEER JASON M. REEP
10/25/24



LEAN-TO FRAMING OPTIONS



1
S10D

END WALL COLUMN / HIP RAFTER CONNECTION DETAIL

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

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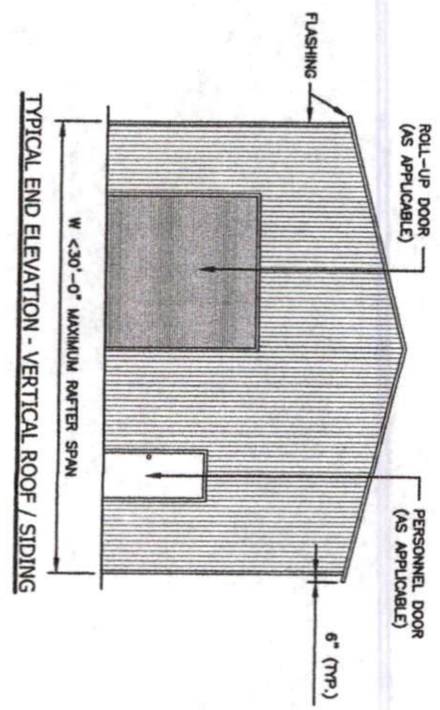
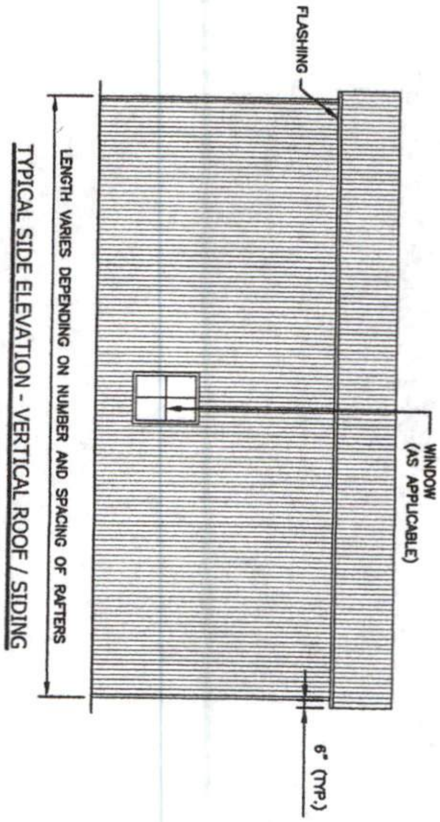
NORTH CAROLINA PROFESSIONAL SEAL 27874 ENGINEER JASON M. REEP 10/25/24	TAYLOR & VIOLA STRUCTURAL ENGINEERS P.O.B. 2616 HICKORY NORTH CAROLINA TELE: 828-328-6331 FAX: 828-322-1801 WWW . TAYLORVIOLA . COM V1.2	Date: 10/24/24 Revisions: -	Wesley Williams 335 Llyod Stewart Rd Broadway, NC 27505
			0"-30'-0" WIDTH 16'-0" EAVE HEIGHT 145 WIND ZONE 35 P.S.F. SNOW
			JCMT Associates, PLLC 211 Stone Drive, Pilot Mountain, NC 27041 Telephone: (336) 399-6277
			Project No. 0124-0071 Sheet No. S10D

Associates, PLLC

VERTICAL ROOF / SIDING OPTION



TYPICAL END ELEVATION - VERTICAL ROOF / SIDING



TYPICAL SIDE ELEVATION - VERTICAL ROOF / SIDING

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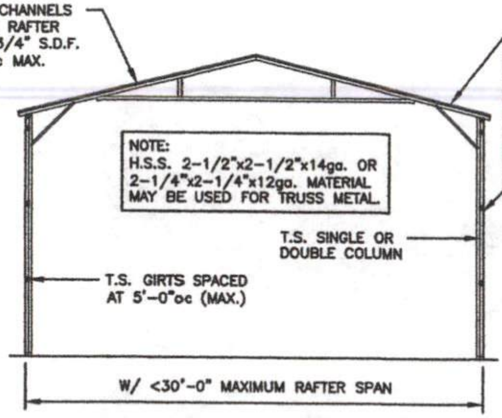
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 27874 JASON M. REEP 10/25/24	TAYLOR & VIOLA STRUCTURAL ENGINEERS P.O.B. 2616 HICKORY NORTH CAROLINA TELE: 828-328-6331 FAX: 828-322-1801 WWW.TAYLORVIOLA.COM V1.2	Wesley Williams 335 Llyod Stewart Rd Broadway, NC 27505	0"-30'-0" WIDTH 16'-0" EAVE HEIGHT 145 WIND ZONE 35 P.S.F. SNOW
	Date: 10/24/24 Revisions: -	JCMT Associates, PLLC 211 Stone Drive, Pilot Mountain, NC 27041 Telephone: (336) 399-6277	Project No. 0124-0071 Sheet No. S11

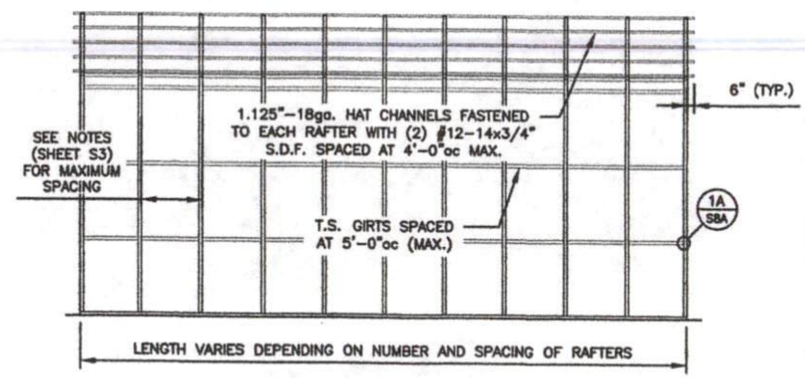
VERTICAL ROOF / SIDING OPTION

VERTICAL ROOF / SIDING OPTION

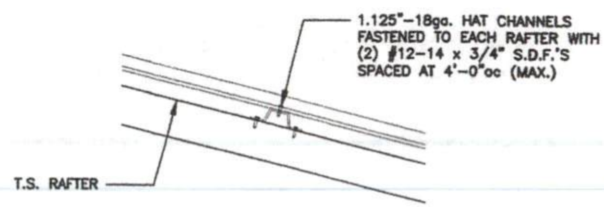


TYPICAL SECTION VERTICAL ROOF / SIDING OPTION

MAIN BUILDING COLUMNS TO BE SINGLE COLUMNS FOR COLUMN HEIGHTS <14'-0"
MAIN BUILDING COLUMNS TO BE DOUBLE COLUMNS FOR COLUMN HEIGHTS >14'-1" TO <16'-0"



TYPICAL SIDE FRAMING SECTION VERTICAL ROOF / SIDING OPTION



(TYPICAL) ROOF PANEL ATTACHMENT

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

0"-30'-0" WIDTH
16'-0" EAVE HEIGHT
145 WIND ZONE
35 P.S.F. SNOW

Project No. 0124-0071

Sheet No. S11A

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Date: 10/24/24

Revisions: -

TAYLOR & VIOLA
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NORTH CAROLINA PROFESSIONAL SEAL 27874 ENGINEER JASON M. REEP
10/25/24

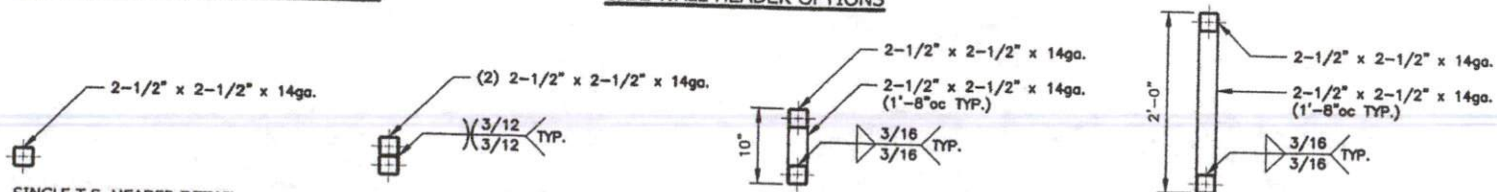
Wesley Williams
535 Lloyd Stewart Rd
Broadway, NC 27505

GENERAL NOTE:

PROVIDE DOUBLE WYTHE HEADER ON DOUBLE COLUMNS.

HEADER OPTIONS

SIDE WALL HEADER OPTIONS



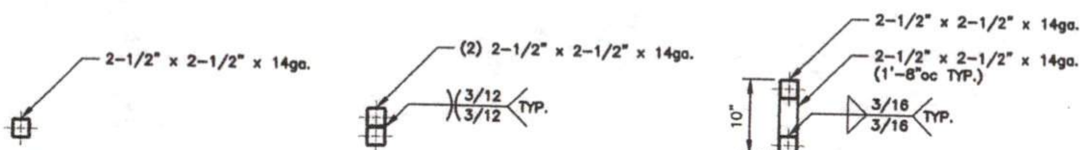
SINGLE T.S. HEADER DETAIL
FOR OPENINGS <4'-0"

DOUBLE T.S. HEADER DETAIL
FOR OPENINGS >4'-0" TO <12'-0"

LACED T.S. HEADER DETAIL
FOR OPENINGS >12'-1" TO <15'-0"

LACED T.S. HEADER DETAIL
FOR OPENINGS >15'-1" TO <20'-0"

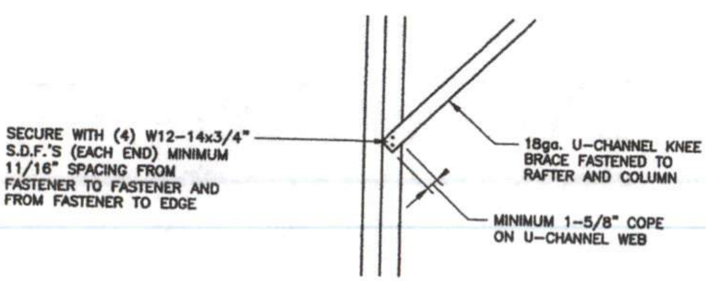
END WALL HEADER OPTIONS



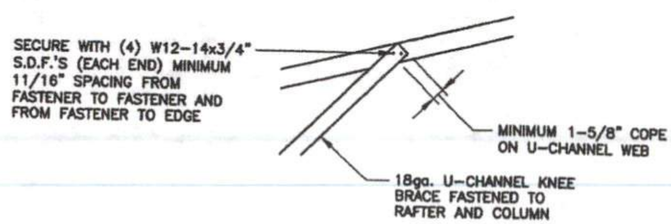
SINGLE T.S. HEADER DETAIL
FOR OPENINGS <7'-0"

DOUBLE T.S. HEADER DETAIL
FOR OPENINGS >7'-1" TO <16'-0"

LACED T.S. HEADER DETAIL
FOR OPENINGS >16'-1" TO <20'-0"



1 / S12 U-CHANNEL TO COLUMN CONNECTION DETAIL
SCALE: 3/4" = 1'-0"



2 / S12 U-CHANNEL TO TRUSS CONNECTION DETAIL
SCALE: 3/4" = 1'-0"

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

0"-30'-0" WIDTH
16'-0" EAVE HEIGHT
145 WIND ZONE
35 P.S.F. SNOW

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Broadway, NC 27505

Project No. 0124-0071
Sheet No. S12

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Date: 10/24/24
Revisions: -

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10/25/24