



STRUCTURAL DESIGN LOW WIND PACKAGE ENCLOSED BUILDING

**MAXIMUM 30'-0" WIDE X 16'- 0" EAVE HEIGHT-
BOX EAVE FRAME AND BOW FRAME**

7 April 2025

Revision 1

M&A Project No. 21089S/24012S/25096S

Prepared for:

**Bluestone Carports and Garages, LLC
380 Hall Rd.
Cairo, GA 39828**

Prepared by:

**Moore and Associates Engineering and Consulting, Inc.
1009 East Avenue
North Augusta, SC 29841**

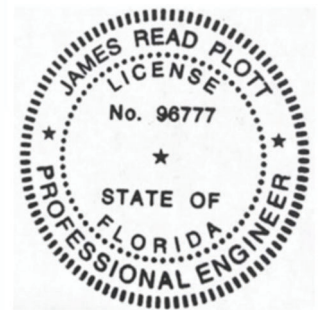
**401 S. Main Street, Suite 200
Mount Airy, NC 27030**



Validity Notice

Plans Expiration Date: 7 April 2027

Plans are valid for one year from issuance date



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DRAWN BY: LT

CHECKED BY: AM

PROJECT MGR: JRP

CLIENT: BLUESTONE

**BLUESTONE CARPORTS AND GARAGES
380 HALL RD.
CAIRO, GA 39828
30'-0"x16'-0" LWP ENCLOSED STRUCTURE**

DATE: 4-7-25

SCALE: NTS

**JOB NO: 21089S/
24012S/25096S**

SHT. 2

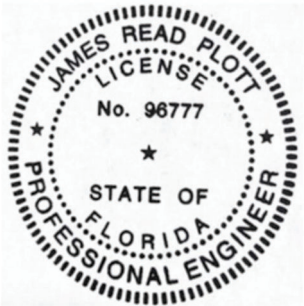
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INSTALLATION NOTES AND SPECIFICATIONS

1. DESIGN IS FOR MAXIMUM 30'-0" WIDE x 16'-0" EAVE HEIGHT ENCLOSED STRUCTURES.
2. DESIGN WAS DONE IN ACCORDANCE WITH ALL APPLICABLE BUILDING CODES LISTED ON SHEET 3A.
3. DESIGN LOADS ARE AS FOLLOWS:
- A) ROOF DEAD LOADS:
- SELF-WEIGHT = 1.5 PSF
- MEP = 0 PSF
- COLLATERAL = 0 PSF
- B) ROOF LIVE LOAD = 12 PSF
- C) FLOOR LIVE LOAD = 100 PSF (4' CONCRETE SLAB-ON-GRADE)
- D) GROUND SNOW LOAD = 15 PSF (FOR IBC 2015, 2018, 2021)
- = 17 PSF (FOR IBC 2024)
- NOTE: UNBALANCED LOADING DUE TO SNOW DRIFT/SLIDING FROM AN ADJACENT TALLER STRUCTURE HAS NOT BEEN EVALUATED. DROP-DOWN LEAN-TO'S (THOSE CAUSING A HEIGHT DIFFERENTIAL FROM THE MAIN STRUCTURE) SHALL BE LIMITED TO GROUND SNOW LOADS $\leq$ 7 PSF.
4. 3-SECOND GUST ULTIMATE WIND SPEED = MAX. 145 MPH (NOMINAL WIND SPEED = MAX. 112 MPH).
5. MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 5.0 FEET (UNLESS NOTED OTHERWISE).
6. ENDWALL COLUMNS (COLUMNS) AND SIDE WALL COLUMNS ARE EQUIVALENT IN SIZE AND SPACING (UNLESS NOTED OTHERWISE).
7. RISK CATEGORY I (NOT FOR HUMAN OCCUPANCY).
8. WIND EXPOSURE CATEGORY B/C.
9. SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2" x 2 1/2" - 14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS (UNLESS NOTED OTHERWISE). 2 1/4" x 2 1/4" - 12 GAUGE TS MAY BE USED AS OPTIONAL FRAMING MEMBERS.
10. CONNECTOR SLEEVES ARE MINIMUM 6" LONG, 2 1/4"x2 1/4"-14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS (UNLESS NOTED OTHERWISE).
11. STRUCTURAL ANALYSIS/DESIGN IS BASED ON TS MEETING THE REQUIREMENTS OF ASTM A653 GRADE TYPE GRADE 50 MINIMUM YIELD STRENGTH (FY) OF 50 KSI AND GALVANIZING MEETING THE REQUIREMENTS OF G60.
12. USE E70 ELECTRODES FOR WELDED CONNECTIONS. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF AWS D1.3.
13. AVERAGE PANEL FASTENER SPACING ON-CENTERS = 9 INCHES.
14. FASTENERS CONSIST OF #12-14x3/4" SELF-DRILLING FASTENER (SDF), USE CONTROL SEAL WASHER WITH EXTERIOR FASTENERS. SPECIFICATIONS APPLICABLE ONLY FOR ROOF SLOPES OF 14" (3:12 PITCH) OR LESS. ROOF SLOPES LESS THAN 3:12 REQUIRE USE OF JOINT SEALANT.
15. GROUND ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL AT OR WITHIN 6" OF EVERY COLUMN.
16. WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:
- SOIL SITE CLASS = D
- RISK CATEGORY I
- R = 3.25 $I_E = 1.0$
- $S_{DS} = 2.625 g$ $V = C_s W$
- $S_{D1} = 2.13 g$
17. CONTRACTOR TO PROVIDE ADEQUATE BRACING FOR STRUCTURE SO THAT IT WILL BE STABLE DURING ALL STAGES OF CONSTRUCTION. THE STRUCTURE AND FOUNDATION ARE DESIGNED FOR A COMPLETED CONDITION ONLY AND, THEREFORE, REQUIRE ADDITIONAL SUPPORT TO MAINTAIN STABILITY BEFORE COMPLETION.
18. IF MORE THAN 50% OF COLUMNS (LEGS) ARE REMOVED IN ANY LONGITUDINAL (SIDE) WALLS OF A BUILDING, THE ENGINEER IS TO BE NOTIFIED TO DETERMINE WHETHER PORTAL FRAMES OR OTHER LONGITUDINAL STABILITY ELEMENTS WILL BE REQUIRED.
19. ANALYSIS/DESIGN OF THIS STRUCTURE WAS BASED ON THE LOADS, BUILDING CODE, AND STRUCTURAL GEOMETRY NOTED HEREIN. NO CHANGES SHALL BE MADE TO THE STRUCTURE WITHOUT EXPRESS WRITTEN PERMISSION FROM THE DESIGN ENGINEER. ANY CHANGES IN THE USE OR GEOMETRY OF THE STRUCTURE IN ANY MANNER IS A VIOLATION OF THE BUILDING CODE AND NEGATES ANY LIABILITY ON THE PART OF MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.
20. WHEN USING GENERIC MASTER DESIGNS TO OBTAIN BUILDING PERMIT, IT MUST BE ACCOMPANIED BY SUFFICIENT ADDITIONAL INFORMATION TO INDICATE THE LOCATION, NATURE, AND EXTEND OF THE CONSTRUCTION AND SHOW IN DETAIL THAT IT WILL CONFORM TO ALL APPLICABLE CODES, LAWS, ORDINANCES, RULES, AND REGULATIONS.
21. WHEN APPLYING FOR BUILDING PERMIT, THE BUILDING OFFICIAL MUST BE CONSULTED TO VERIFY WHETHER THE USE OF THE MASTER DESIGN IS ADEQUATE OR IF A SITE-SPECIFIC DESIGN IS REQUIRED FOR OBTAINING A BUILDING PERMIT. GENERIC MASTER DESIGNS CAN NOT BE USED WHERE A SITE-SPECIFIC DESIGN IS REQUIRED.
22. ANY VARIATION FROM THE ANALYSIS/DESIGN PARAMETERS OF THE MASTER DESIGN REQUIRES THE DEVELOPMENT OF A SITE-SPECIFIC DESIGN.



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LIST OF APPLICABLE BUILDING CODES

2024 INTERNATIONAL BUILDING CODE (IBC 2024)

2021 INTERNATIONAL BUILDING CODE (IBC 2021)

2018 INTERNATIONAL BUILDING CODE (IBC 2018)

2015 INTERNATIONAL BUILDING CODE (IBC 2015)

ALABAMA BUILDING CODE 2021
(ADOPTS THE IBC 2021 WITH AMENDMENTS)
(IBC 2015, IBC 2018, IBC 2021, IBC 2024
(DEPENDENT UPON LOCAL JURISDICTION))

2023 FLORIDA BUILDING CODE, BUILDING, 8TH EDITION
(ADOPTS THE IBC 2021 WITH AMENDMENTS)

GEORGIA STATE MINIMUM STANDARD BUILDING CODE 2018
(ADOPTS THE IBC 2018 WITH AMENDMENTS)

MISSISSIPPI BUILDING CODE 2024
(ADOPTS THE IBC 2024 WITHOUT AMENDMENTS)
(IBC 2012, IBC 2015 AND IBC 2018, IBC 2024
(DEPENDENT UPON LOCAL JURISDICTION))

SOUTH CAROLINA BUILDING CODE 2021
(ADOPTS THE IBC 2021 WITH AMENDMENTS)

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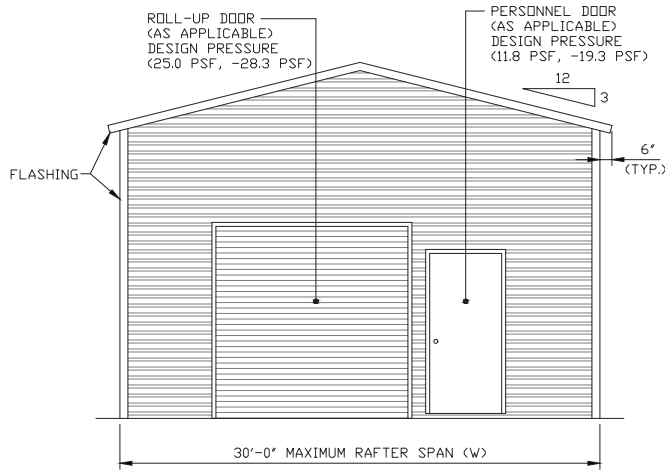
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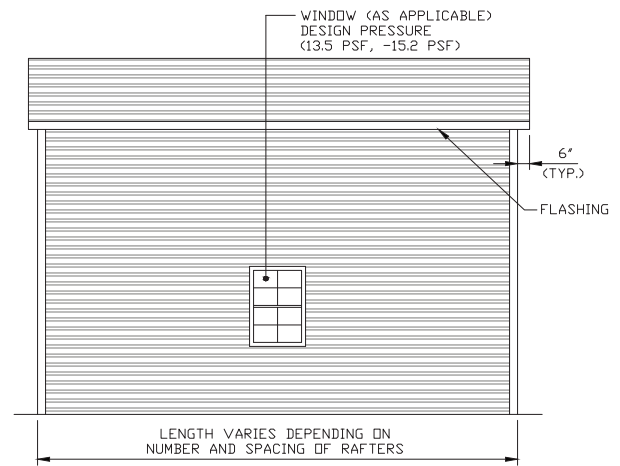
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BOX EAVE FRAME RAFTER STRUCTURE



TYPICAL END ELEVATION

SCALE: NTS

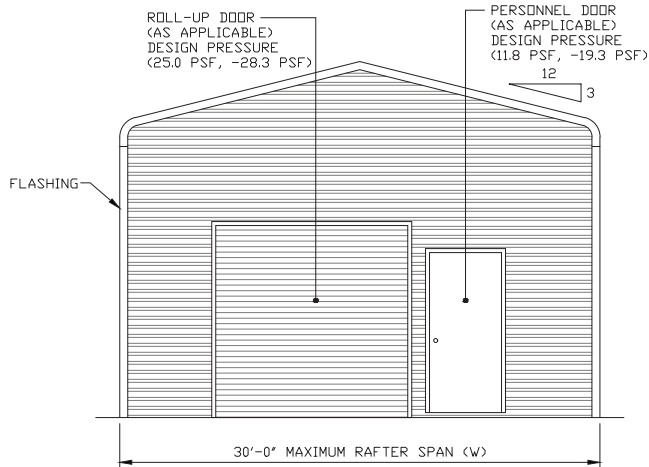


TYPICAL SIDE ELEVATION

SCALE: NTS

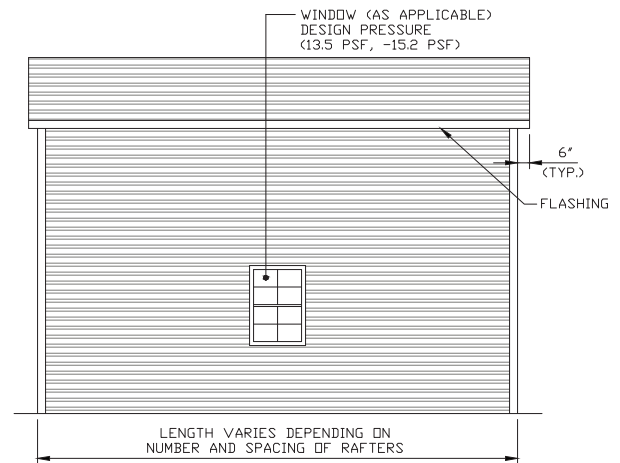
NOTE: HORIZONTAL ROOF PANELS ONLY
APPLICABLE FOR WIND SPEEDS $\leq$ 130 MPH

BOX EAVE FRAME RAFTER STRUCTURE



TYPICAL END ELEVATION

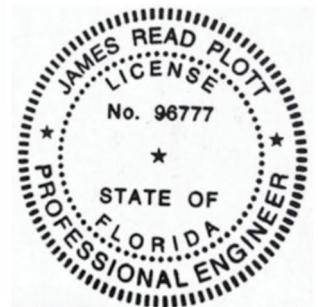
SCALE: NTS



TYPICAL SIDE ELEVATION

SCALE: NTS

NOTE: HORIZONTAL ROOF
APPLICABLE FOR WIND SF



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SHT. 4

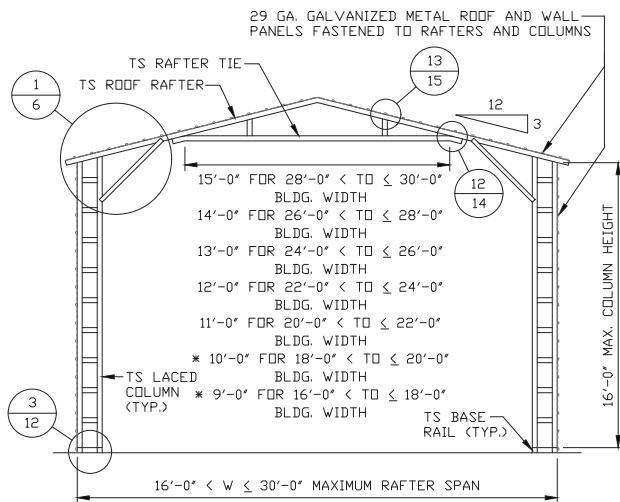
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**JOB NO: 21089S/
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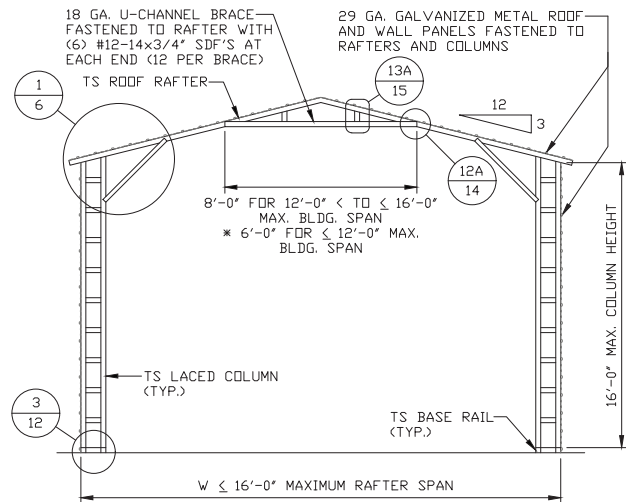
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TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS

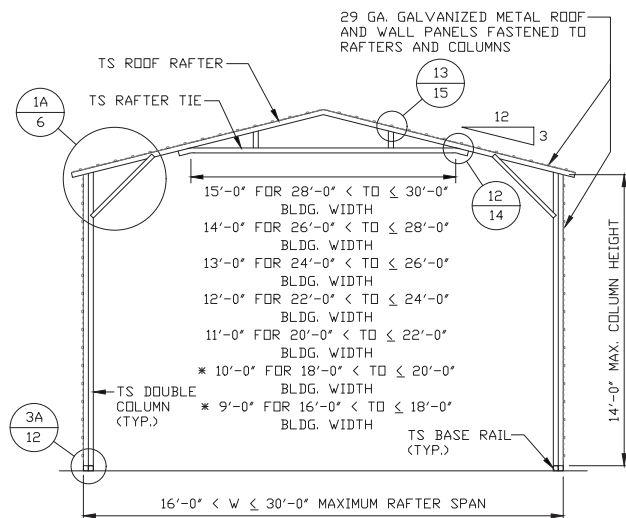
* NOTE: VERTICAL STRUTS NOT REQUIRED FOR THESE TIE LENGTHS.



TYPICAL RAFTER/COLUMN FRAME SECTION

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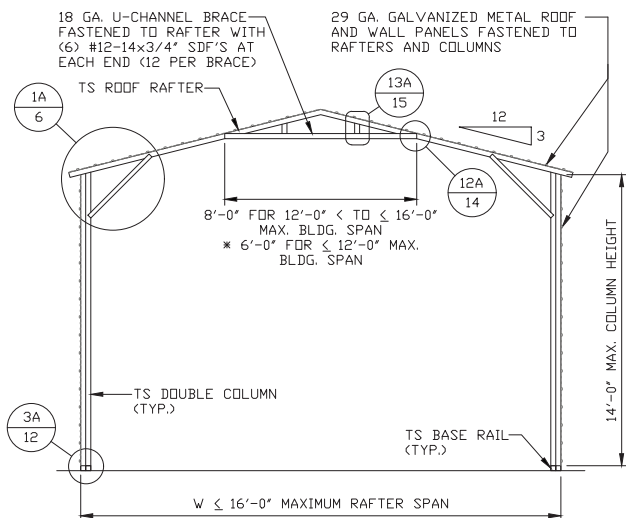
* NOTE: VERTICAL STRUTS NOT REQUIRED FOR THESE TIE LENGTHS.



TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS

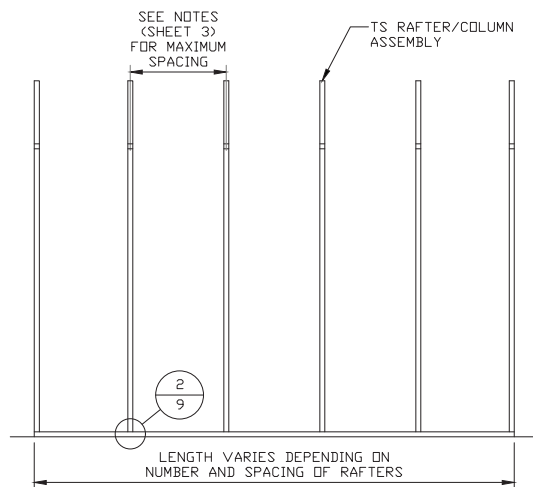
* NOTE: VERTICAL STRUTS NOT REQUIRED FOR THESE TIE LENGTHS.



TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS

* NOTE: VERTICAL STRUTS NOT REQUIRED FOR THESE TIE LENGTHS.



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

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SHT. 5

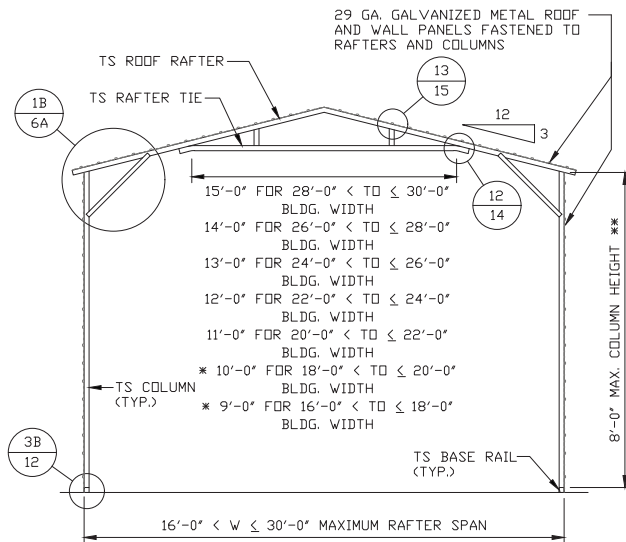
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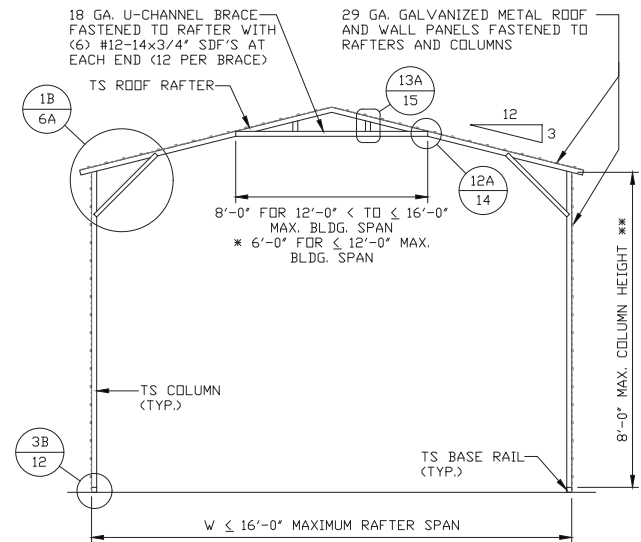
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TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS

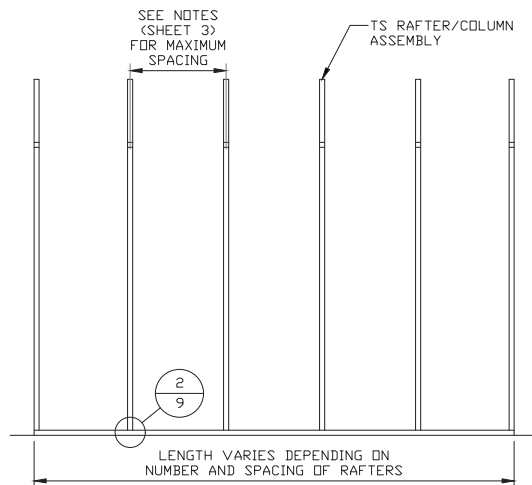
- * NOTE: VERTICAL STRUTS NOT REQUIRED FOR THESE TIE LENGTHS.
- ** NOTE: 12'-0" FOR WIND SPEED $\leq$ 105 MPH AND EXPOSURE B.



TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS

- * NOTE: VERTICAL STRUTS NOT REQUIRED FOR THESE TIE LENGTHS.
- ** NOTE: 12'-0" FOR WIND SPEEDS $\leq$ 105 MPH AND EXPOSURE B.



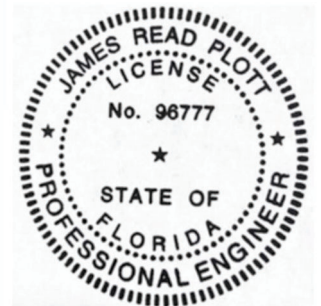
TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

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SHT. 5A

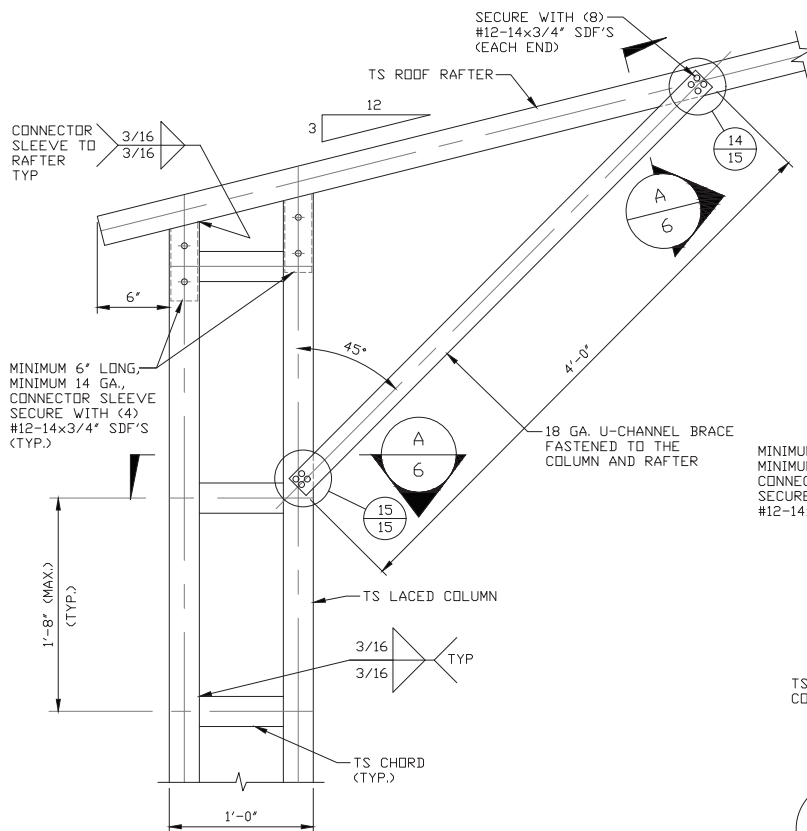
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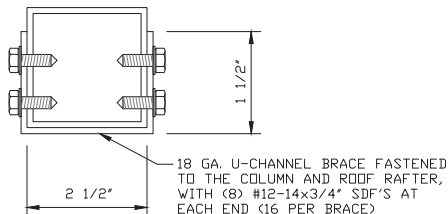
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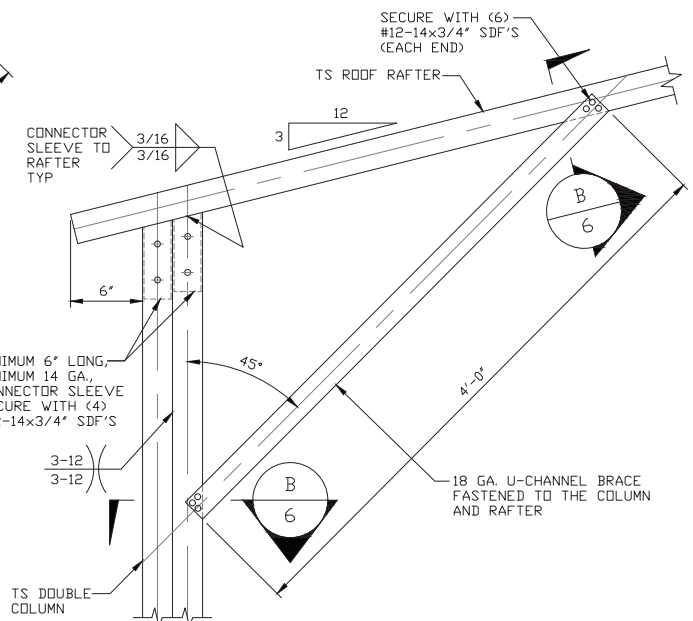
**BOX EAVE RAFTER/CORNER COLUMN
CONNECTION DETAIL
FOR HEIGHTS 14'-0" < TO ≤ 16'-0"**

SCALE: NTS



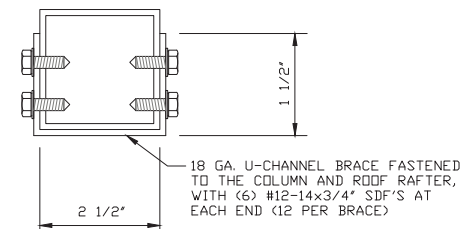
BRACE SECTION

SCALE: NTS



**BOX EAVE RAFTER/CORNER COLUMN
CONNECTION DETAIL
FOR HEIGHTS 8'-0" < TO ≤ 14'-0"**

SCALE: NTS



BRACE SECTION

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SHT. 6

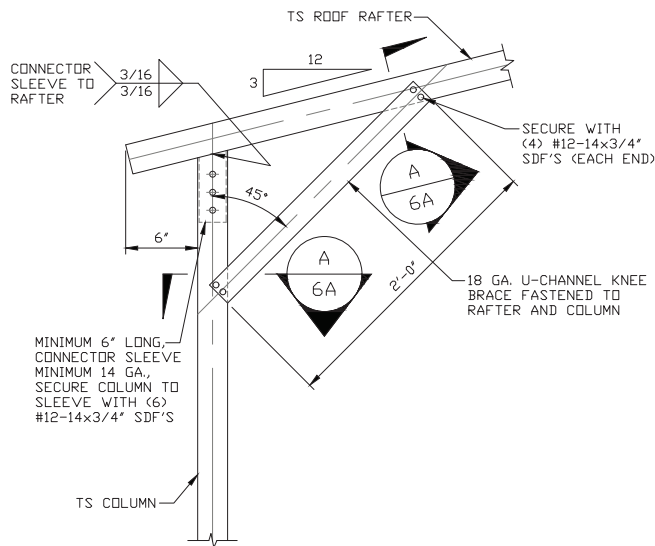
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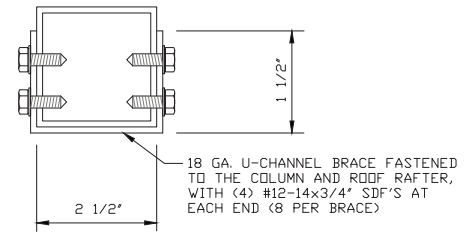
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BOX EAVE RAFTER/CORNER COLUMN CONNECTION DETAIL FOR HEIGHTS $\leq$ 8'-0"

1B

SCALE: NTS
NOTE: 12'-0" SINGLE TS COLUMN APPLICABLE FOR WIND
SPEEDS $\leq$ 105 MPH AND EXPOSURE B ONLY.



A

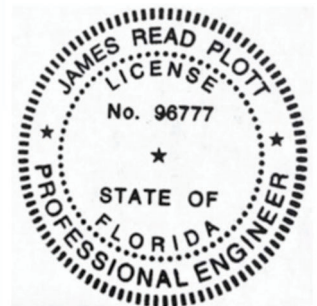
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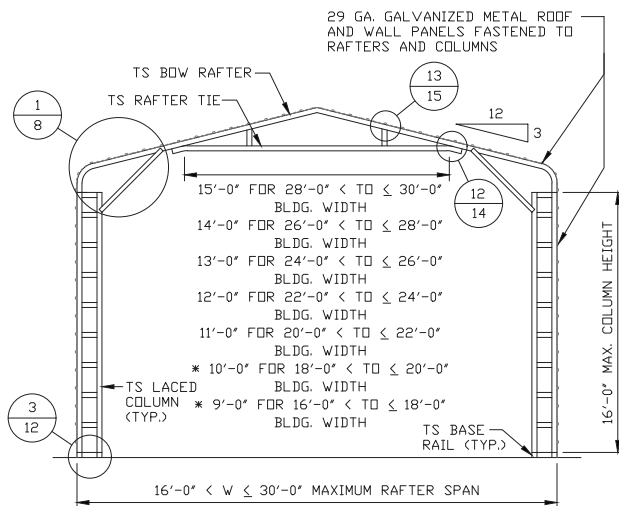
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24012S/25096S**

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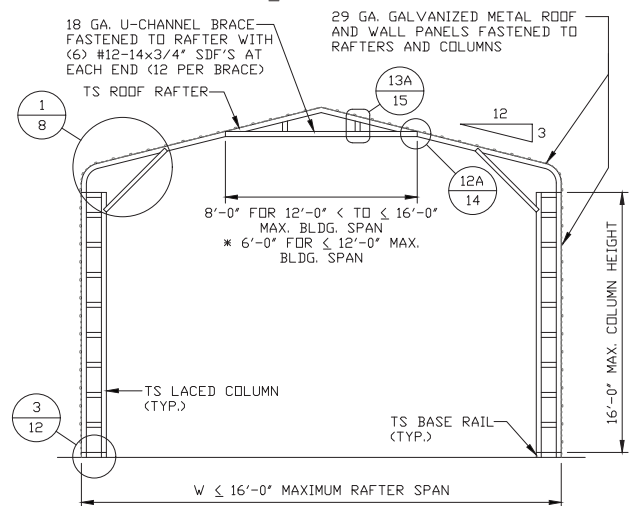
NOTE: BOW EAVE STRUCTURES CAN ONLY BE USED FOR WIND SPEEDS ≤ 130 MPH.



TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS

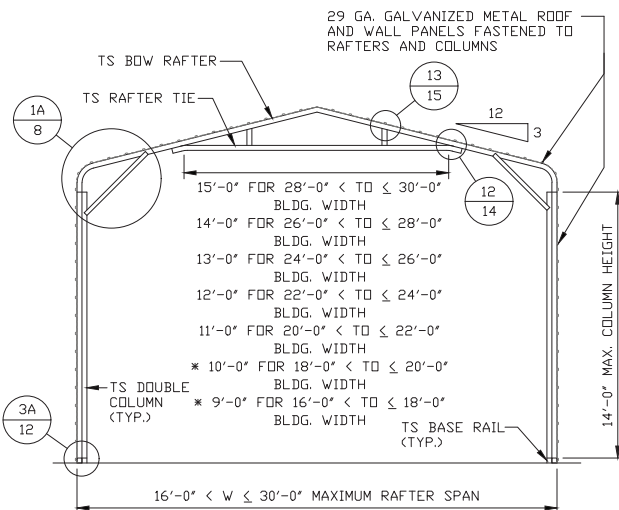
* NOTE: VERTICAL STRUTS NOT REQUIRED FOR THESE TIE LENGTHS.



TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS

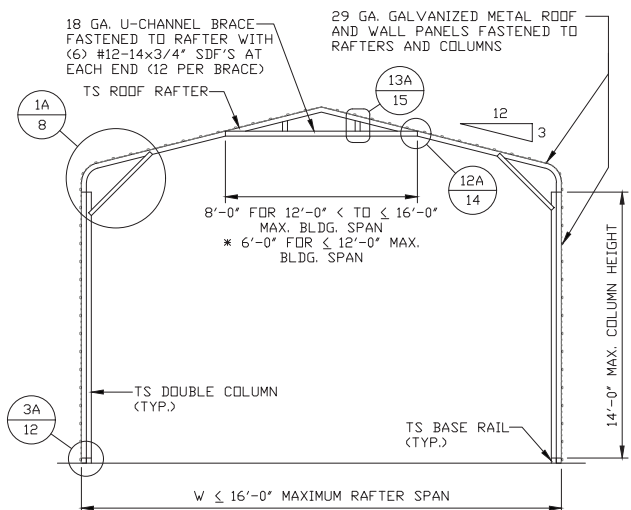
* NOTE: VERTICAL STRUTS NOT REQUIRED FOR THESE TIE LENGTHS.



TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS

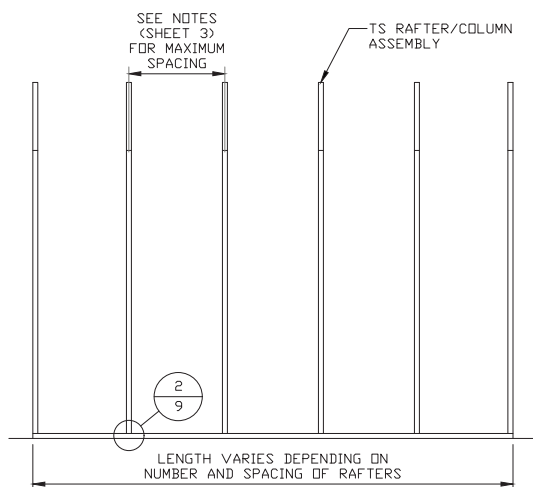
* NOTE: VERTICAL STRUTS NOT REQUIRED FOR THESE TIE LENGTHS.



TYPICAL RAFTER/COLUMN FRAME SECTION

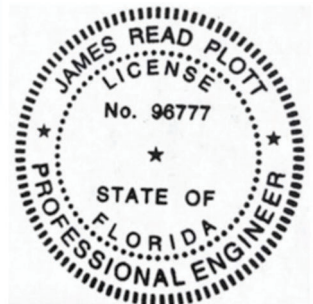
SCALE: NTS

* NOTE: VERTICAL STRUTS NOT REQUIRED



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE: NTS



Validity Notice

Plans Expiration Date:

7 April 2027

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**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: LT

CHECKED BY: AM

PROJECT MGR: JRP

CLIENT: BLUESTONE

**BLUESTONE CARPORTS AND GARAGES
380 HALL RD.
CAIRO, GA 39828**

30'-0"x16'-0" LWP ENCLOSED STRUCTURE

DATE: 4-7-25

SHT. 7

SCALE: NTS

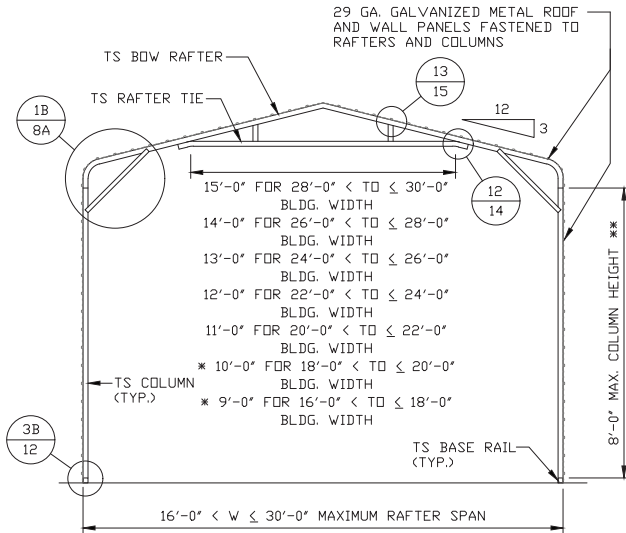
DWG. NO: SK-3

**JOB NO: 21089S/
24012S/25096S**

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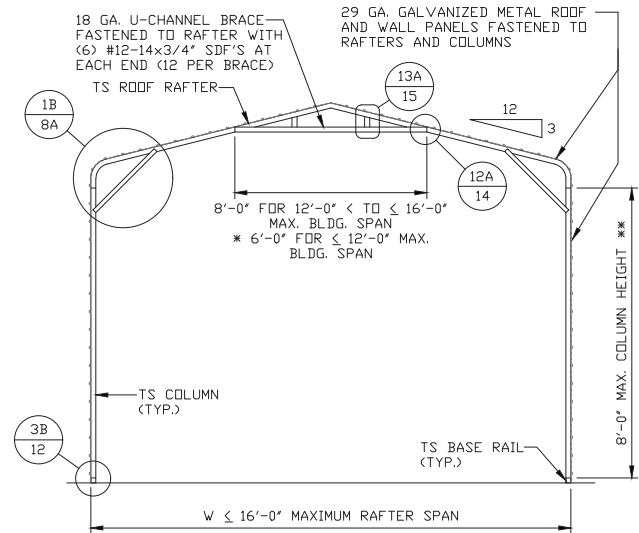
NOTE: BOW EAVE STRUCTURES CAN ONLY BE USED FOR WIND SPEEDS $\leq$ 130 MPH.



TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS

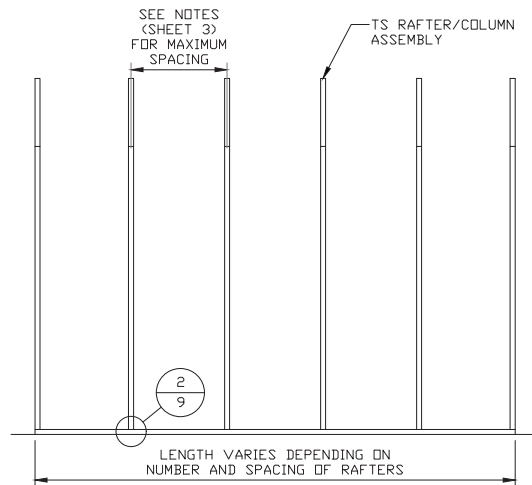
- * NOTE: VERTICAL STRUTS NOT REQUIRED FOR THESE TIE LENGTHS.
- ** NOTE: 12'-0" FOR WIND SPEED $\leq$ 105 MPH AND EXPOSURE B.



TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS

- * NOTE: VERTICAL STRUTS NOT REQUIRED FOR THESE TIE LENGTHS.
- ** NOTE: 12'-0" FOR WIND SPEEDS $\leq$ 105 MPH AND EXPOSURE B.



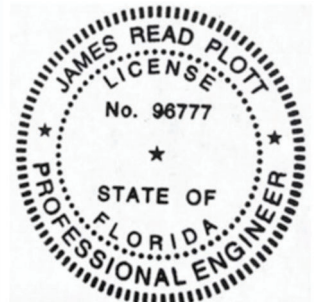
TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE: NTS

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PROJECT MGR: JRP

CLIENT: BLUESTONE

BLUESTONE CARPORTS AND GARAGES
380 HALL RD.
CAIRO, GA 39828
30'-0"x16'-0" LWP ENCLOSED STRUCTURE

DATE: 4-7-25

SHT. 7A

SCALE: NTS

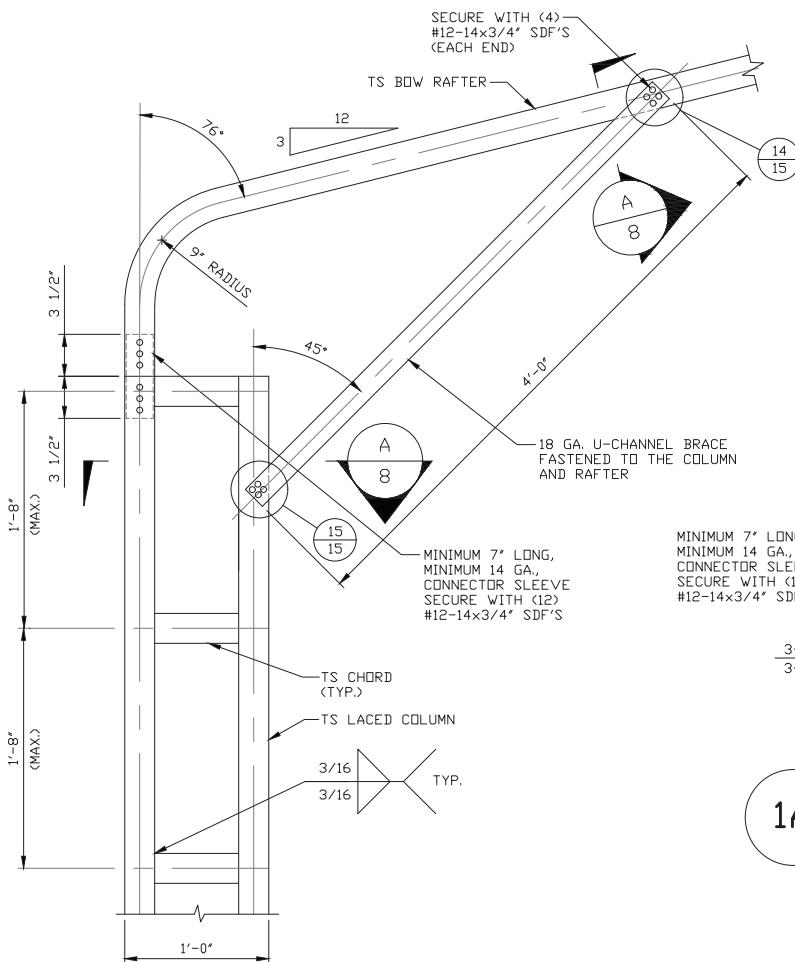
DWG. NO: SK-3

JOB NO: 21089S/
24012S/25096S

REV: 1

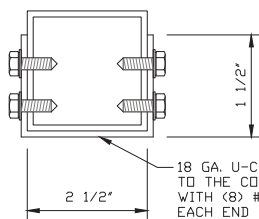
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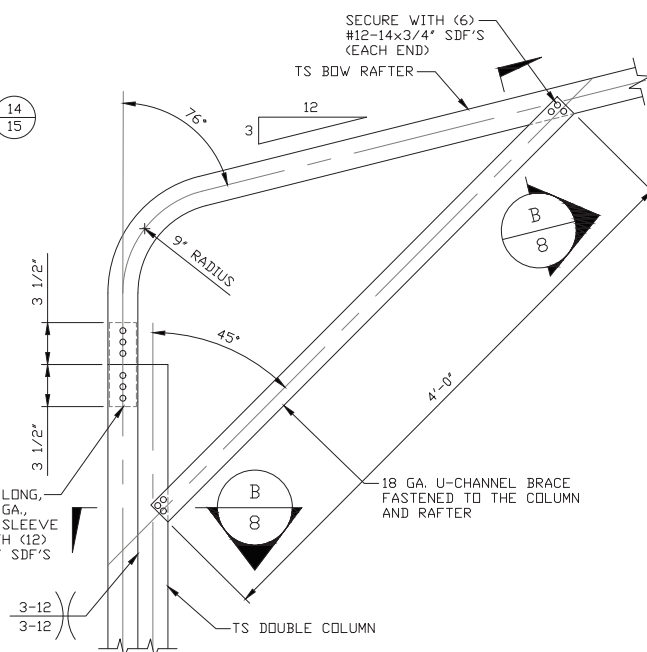
**BOW EAVE RAFTER/CORNER COLUMN
CONNECTION DETAIL
FOR HEIGHTS 14'-0" < TO ≤ 16'-0"**

SCALE: NTS



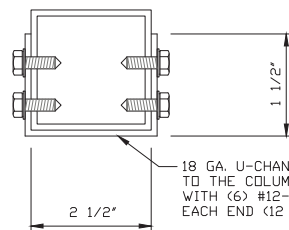
A BRACE SECTION

SCALE: NTS



**BOW EAVE RAFTER/CORNER COLUMN
CONNECTION DETAIL
FOR HEIGHTS 8'-0" < TO ≤ 14'-0"**

SCALE: NTS



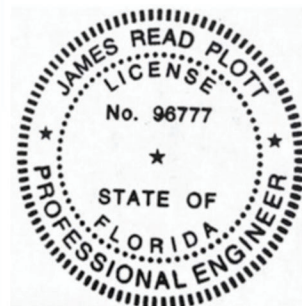
B BRACE SECTION

SCALE: NTS

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PROJECT MGR: JRP

CLIENT: BLUESTONE

**BLUESTONE CARPORTS AND GARAGES
380 HALL RD.
CAIRO, GA 39828
30'-0"x16'-0" LWP ENCLOSED STRUCTURE**

DATE: 4-7-25

SHT. 8

SCALE: NTS

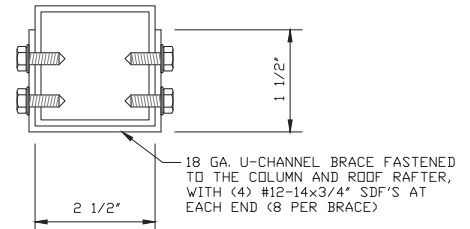
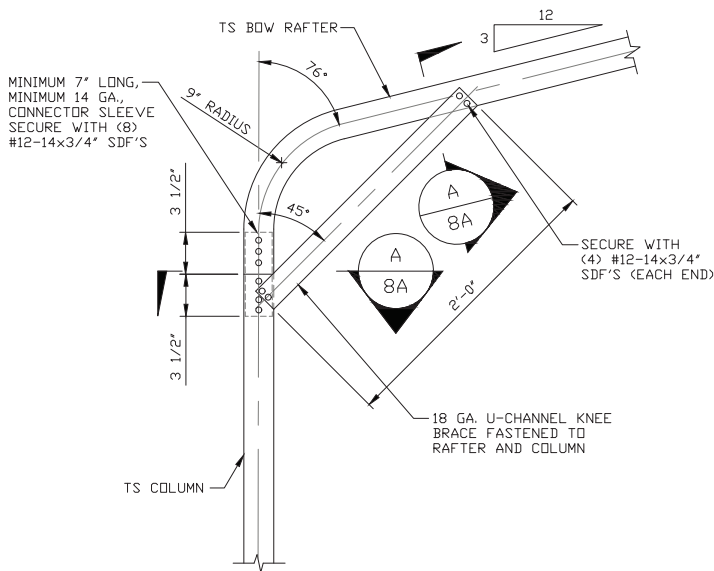
DWG. NO: SK-3

**JOB NO: 21089S/
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NOTE: BOW EAVE STRUCTURES CAN ONLY BE USED FOR WIND SPEEDS $\leq$ 130 MPH.



A **BRACE SECTION**
SCALE: NTS

1B

**BOW EAVE RAFTER/CORNER COLUMN
CONNECTION DETAIL
FOR HEIGHTS $\leq$ 8'-0"**

SCALE: NTS
NOTE: 12'-0" SINGLE TS COLUMN APPLICABLE FOR WIND
SPEEDS $\leq$ 105 MPH AND EXPOSURE B ONLY.

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BLUESTONE CARPORTS AND GARAGES
380 HALL RD.
CAIRO, GA 39828
30'-0"x16'-0" LWP ENCLOSED STRUCTURE

DATE: 4-7-25

SCALE: NTS

SHT. 8A

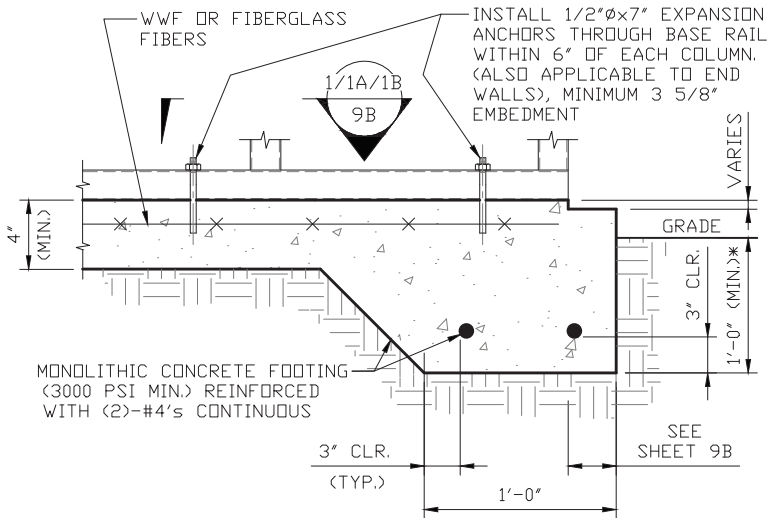
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**JOB NO: 21089S/
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REV: 1

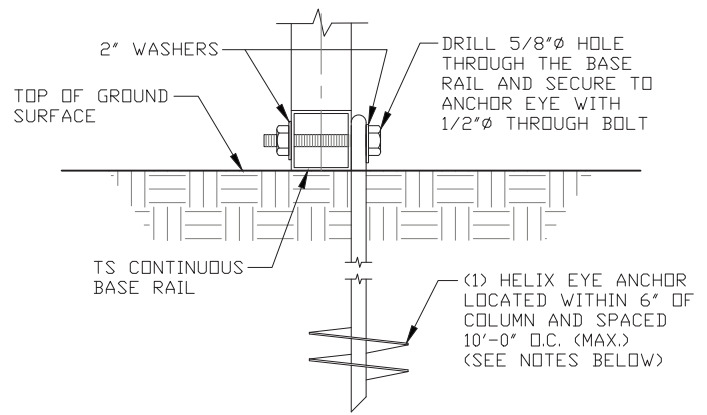
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BASE RAIL ANCHORAGE OPTIONS WITHOUT ATTACHED LEAN-TO



2 CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

SCALE: NTS
SEE SHEET 9B FOR MINIMUM ANCHOR EDGE DISTANCE.
* COORDINATE WITH LOCAL BUILDING CODE AND/
ORD. REGARDING MINIMUM FROST DEPTH (LENGTH).



2A GROUND BASE HELIX ANCHORAGE

SCALE: NTS
* COORDINATE WITH LOCAL BUILDING CODE AND/
ORD. REGARDING MINIMUM FROST DEPTH (LENGTH).

GENERAL NOTES

NOTE: CONCRETE MONOLITHIC SLAB DESIGN BASED ON
MINIMUM SOIL BEARING CAPACITY OF 1,500 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 OR WEATHER, AND 1 1/2" ELSEWHERE.

REINFORCING STEEL:

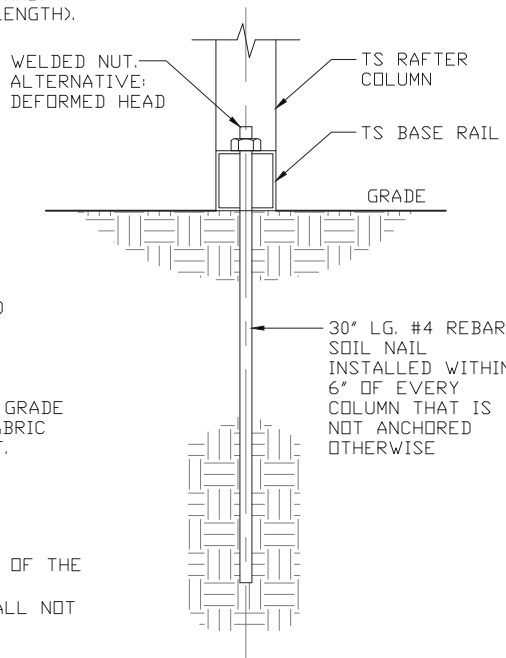
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE
60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC
MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

REINFORCEMENT MAY BE BENT IN THE SHOP OR 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.

HELIX ANCHOR NOTES:

1. FOR VERY DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL
AND COBBLES, CALICHE, PRELOADED SILTS AND CLAYS, USE
MINIMUM (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR
SINGLE 6" HELIX WITH MINIMUM 50" EMBEDMENT
2. FOR CORAL USE MINIMUM (2) 4" HELICES WITH MINIMUM
30" EMBEDMENT OR SINGLE 6" HELIX WITH MINIMUM
50" EMBEDMENT.
3. FOR MEDIUM DENSE COARSE SANDS, SANDY GRAVELS, VERY
STIFF SILTS, AND CLAYS USE MINIMUM (2) 4" HELICES WITH
MINIMUM 30 INCH EMBEDMENT OR SINGLE 6" HELIX WITH MINIMUM
50" EMBEDMENT.
4. FOR LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND
SILTS ALLUVIAL FILL, USE MINIMUM (2) 6" HELICES WITH MINIMUM
50" EMBEDMENT.
5. FOR VERY LOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER
CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 8" HELICES
WITH MINIMUM 60" EMBEDMENT.



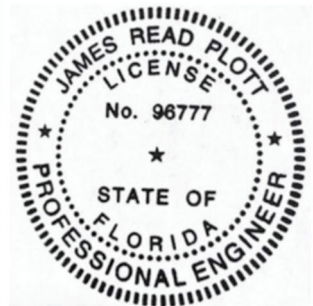
2B GROUND BASE SOIL NAIL ANCHORAGE

SCALE: NTS

Validity Notice

Plans Expiration Date:

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DRAWN BY: LT

CHECKED BY: AM

PROJECT MGR: JRP

CLIENT: BLUESTONE

BLUESTONE CARPORTS AND GARAGES
380 HALL RD.
CAIRO, GA 39828
30'-0"x16'-0" LWP ENCLOSED STRUCTURE

DATE: 4-7-25

SHT. 9

SCALE: NTS

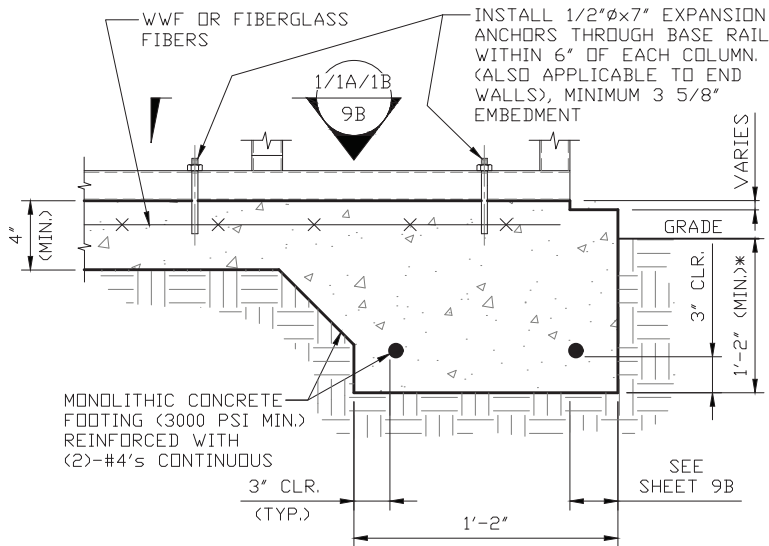
DWG. NO: SK-3

JOB NO: 21089S/
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BASE RAIL ANCHORAGE OPTIONS WITH ATTACHED LEAN-TO

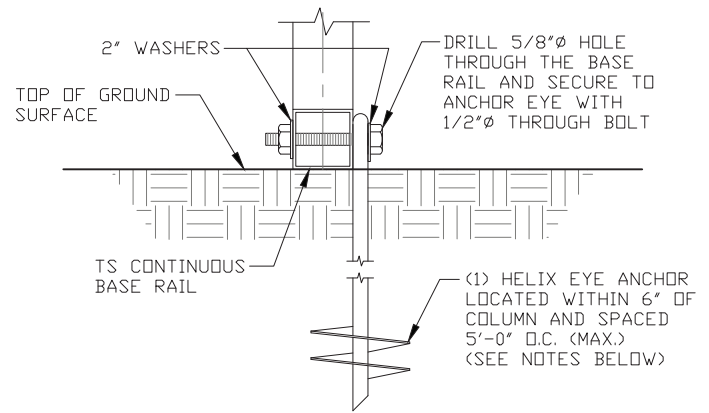


2B

CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

SCALE: NTS

SEE SHEET 9B FOR MINIMUM ANCHOR EDGE DISTANCE.
* COORDINATE WITH LOCAL BUILDING CODE AND/
ORD. REGARDING MINIMUM FROST DEPTH (LENGTH).



2C

GROUND BASE HELIX ANCHORAGE

SCALE: NTS

* COORDINATE WITH LOCAL BUILDING CODE AND/
ORD. REGARDING MINIMUM FROST DEPTH (LENGTH).

GENERAL NOTES

NOTE: CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM
SOIL BEARING CAPACITY OF 1,500 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 OR 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
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REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED:

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2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE
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3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT
BE FIELD BENT.

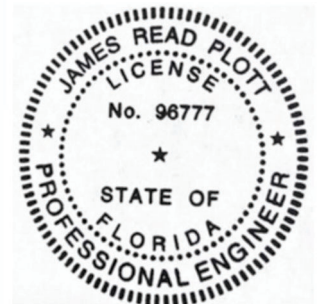
HELIX ANCHOR NOTES:

1. FOR VERY DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL
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SINGLE 6" HELIX WITH MINIMUM 50" EMBEDMENT
2. FOR CORAL USE MINIMUM (2) 4" HELICES WITH MINIMUM
30" EMBEDMENT OR SINGLE 6" HELIX WITH MINIMUM
50" EMBEDMENT.
3. FOR MEDIUM DENSE COARSE SANDS, SANDY GRAVELS, VERY
STIFF SILTS, AND CLAYS USE MINIMUM (2) 4" HELICES WITH
MINIMUM 30 INCH EMBEDMENT OR SINGLE 6" HELIX WITH MINIMUM
50" EMBEDMENT.
4. FOR LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND
SILTS ALLUVIAL FILL, USE MINIMUM (2) 6" HELICES WITH MINIMUM
50" EMBEDMENT.
5. FOR VERY LOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER
CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 8" HELICES
WITH MINIMUM 60" EMBEDMENT.

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DRAWN BY: LT

CHECKED BY: AM

PROJECT MGR: JRP

CLIENT: BLUESTONE

BLUESTONE CARPORTS AND GARAGES
380 HALL RD.
CAIRO, GA 39828
30'-0"x16'-0" LWP ENCLOSED STRUCTURE

DATE: 4-7-25

SHT. 9A

SCALE: NTS

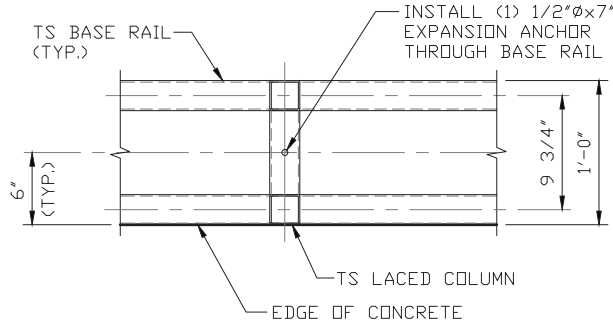
DWG. NO: SK-3

**JOB NO: 21089S/
24012S/25096S**

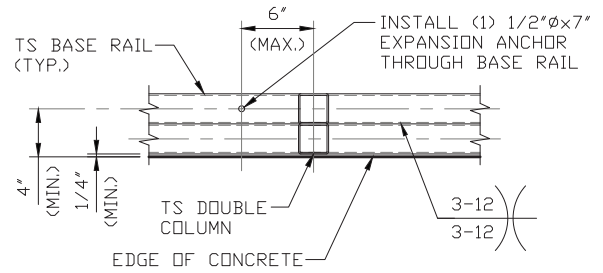
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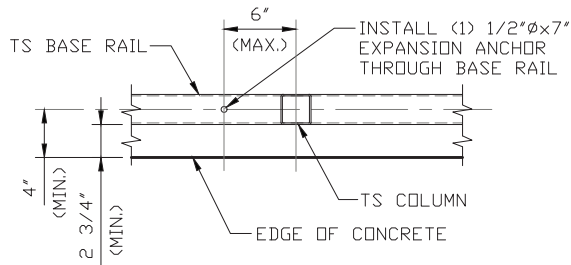
BASE RAIL ANCHORAGE OPTIONS



1 SECTION
SCALE: NTS



1A SECTION
SCALE: NTS

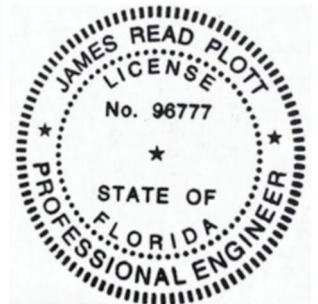


1B SECTION
SCALE: NTS

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PROJECT MGR: JRP

CLIENT: BLUESTONE

BLUESTONE CARPORTS AND GARAGES
380 HALL RD.
CAIRO, GA 39828
30'-0"x16'-0" LWP ENCLOSED STRUCTURE

DATE: 4-7-25

SCALE: NTS

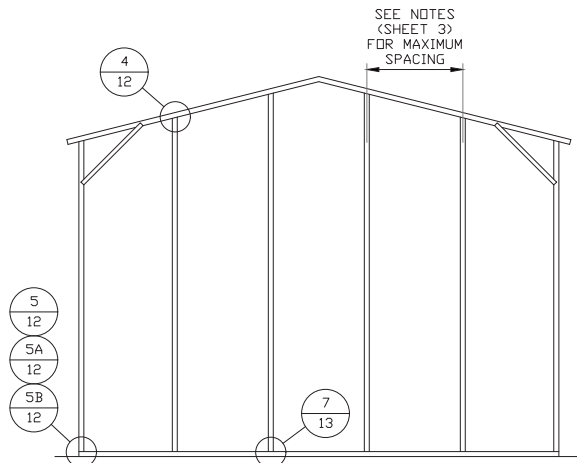
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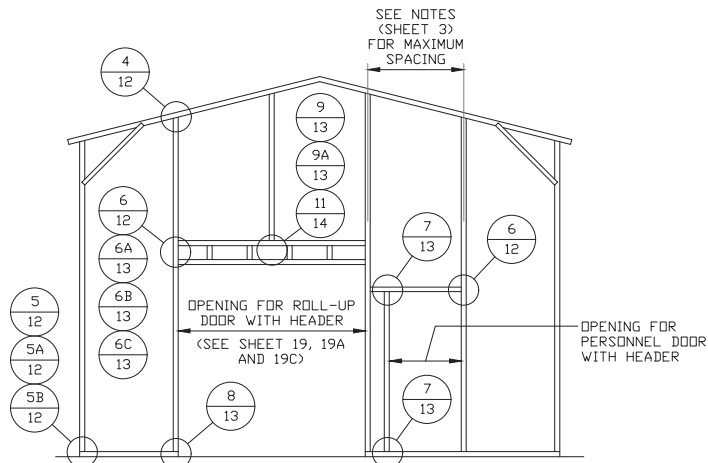
TYPICAL END WALL AND SIDE WALL FRAMING SECTIONS (BOX EAVE RAFTER)



**TYPICAL BOX EAVE RAFTER
END WALL FRAMING SECTION**

SCALE: NTS

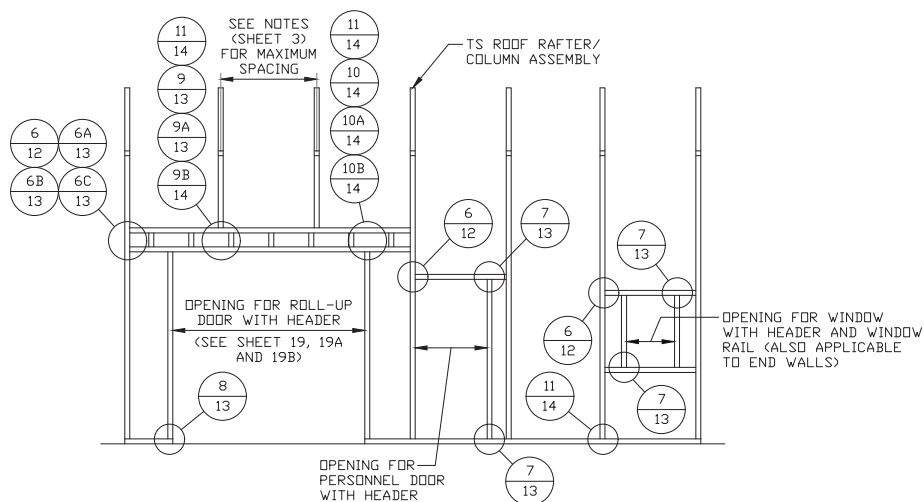
NOTE: END WALL COLUMNS CAN BE REDUCED TO THE FOLLOWING SIZES:
DOUBLE TUBE COLUMNS FOR EAVE HEIGHTS 10'-0" < TO ≤ 16'-0".
SINGLE TUBE COLUMNS FOR EAVE HEIGHTS ≤ 10'-0".



**TYPICAL BOX EAVE RAFTER END
WALL OPENINGS FRAMING SECTION**

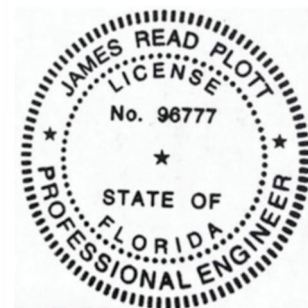
SCALE: NTS

NOTE: END WALL COLUMNS CAN BE REDUCED TO THE FOLLOWING SIZES:
DOUBLE TUBE COLUMNS FOR EAVE HEIGHTS 10'-0" < TO ≤ 16'-0".
SINGLE TUBE COLUMNS FOR EAVE HEIGHTS ≤ 10'-0".



**TYPICAL BOX EAVE RAFTER
SIDE WALL OPENINGS FRAMING SECTION**

SCALE: NTS



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PROJECT MGR: JRP

CLIENT: BLUESTONE

**BLUESTONE CARPORTS AND GARAGES
380 HALL RD.
CAIRO, GA 39828
30'-0"x16'-0" LWP ENCLOSED STRUCTURE**

DATE: 4-7-25

SCALE: NTS

DWG. NO: SK-3

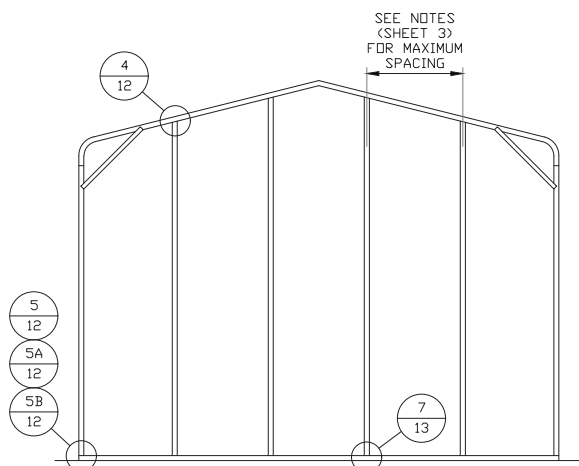
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TYPICAL END WALL AND SIDE WALL FRAMING SECTIONS (BOW EAVE RAFTER)

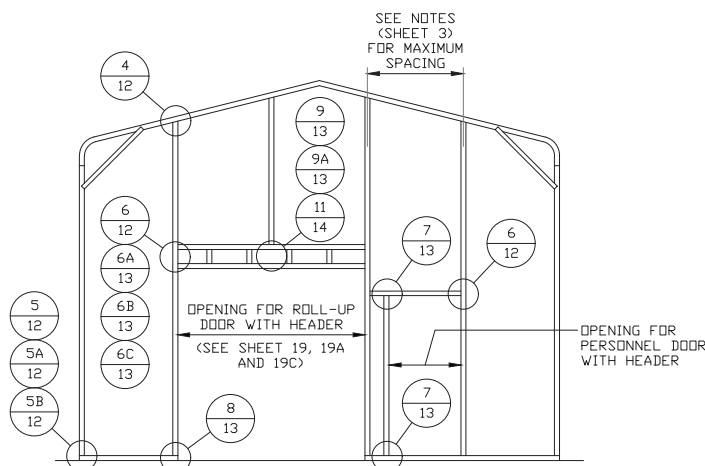
NOTE: BOW EAVE STRUCTURES CAN ONLY BE USED FOR WIND SPEEDS $\leq$ 130 MPH.



**TYPICAL BOW EAVE RAFTER
END WALL FRAMING SECTION**

SCALE: NTS

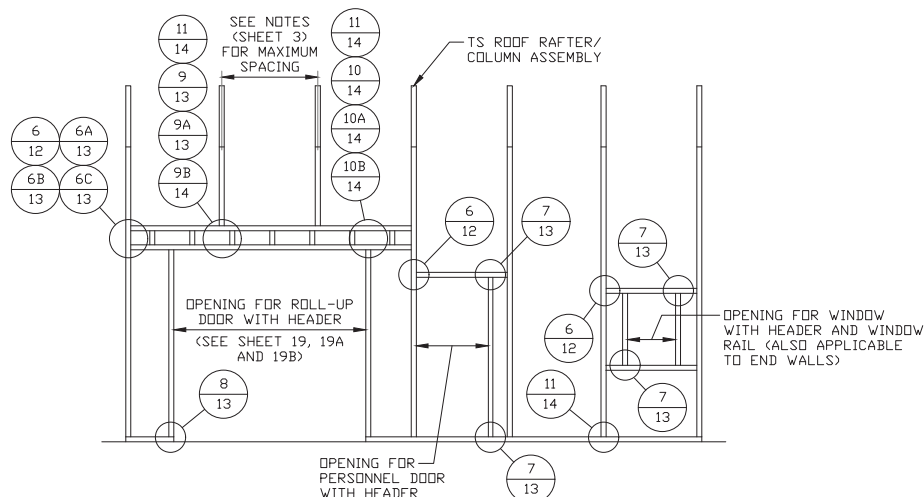
NOTE: END WALL COLUMNS CAN BE REDUCED TO THE FOLLOWING SIZES:
DOUBLE TUBE COLUMNS FOR EAVE HEIGHTS 10'-0" < TO $\leq$ 16'-0",
SINGLE TUBE COLUMNS FOR EAVE HEIGHTS $\leq$ 10'-0".



**TYPICAL BOW EAVE RAFTER END
WALL OPENINGS FRAMING SECTION**

SCALE: NTS

NOTE: END WALL COLUMNS CAN BE REDUCED TO THE FOLLOWING SIZES:
DOUBLE TUBE COLUMNS FOR EAVE HEIGHTS 10'-0" < TO $\leq$ 16'-0",
SINGLE TUBE COLUMNS FOR EAVE HEIGHTS $\leq$ 10'-0".



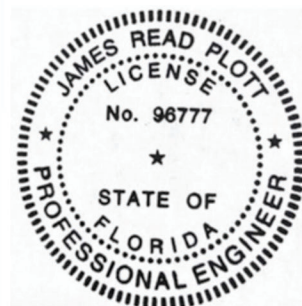
**TYPICAL BOW EAVE RAFTER
SIDE WALL OPENINGS FRAMING SECTION**

SCALE: NTS

Validity Notice

Plans Expiration Date:

7 April 2027



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**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: LT

CHECKED BY: AM

PROJECT MGR: JRP

CLIENT: BLUESTONE

BLUESTONE CARPORTS AND GARAGES
380 HALL RD.
CAIRO, GA 39828
30'-0"x16'-0" LWP ENCLOSED STRUCTURE

DATE: 4-7-25

SHT. 11

SCALE: NTS

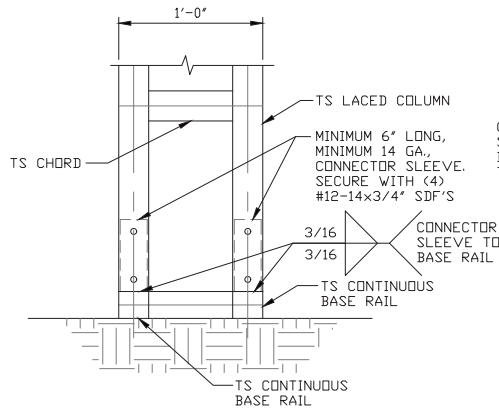
DWG. NO: SK-3

JOB NO: 21089S/
24012S/25096S

REV: 1

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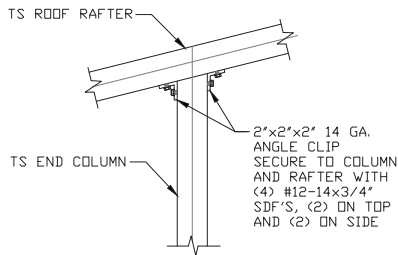
CONNECTION DETAILS



3

COLUMN/BASE RAIL CONNECTION DETAIL

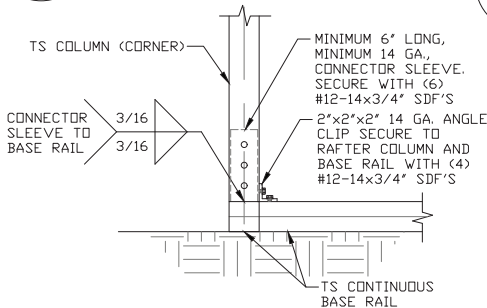
SCALE: NTS



4

END COLUMN/RAFTER CONNECTION DETAIL

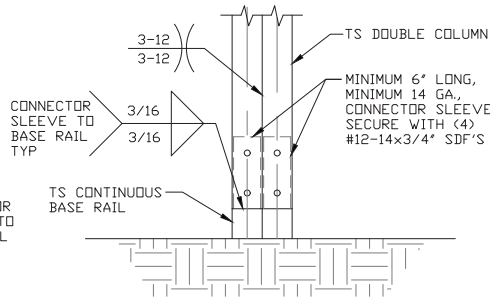
SCALE: NTS



5B

END COLUMN/BASE RAIL CONNECTION DETAIL

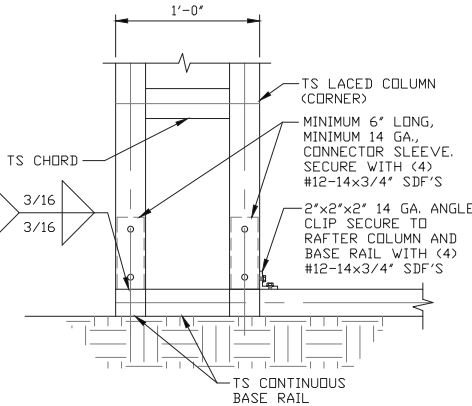
SCALE: NTS



3A

COLUMN/BASE RAIL CONNECTION DETAIL

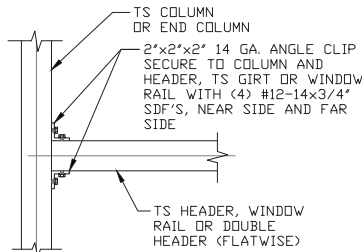
SCALE: NTS



5

END COLUMN/BASE RAIL CONNECTION DETAIL

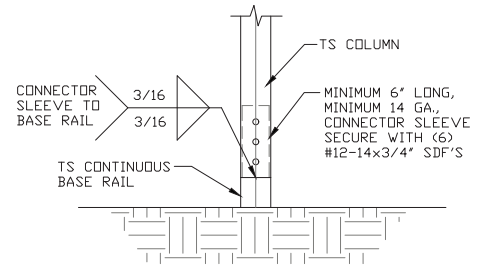
SCALE: NTS



6

HEADER OR WINDOW RAIL/WALL GIRT TO COLUMN CONNECTION DETAIL

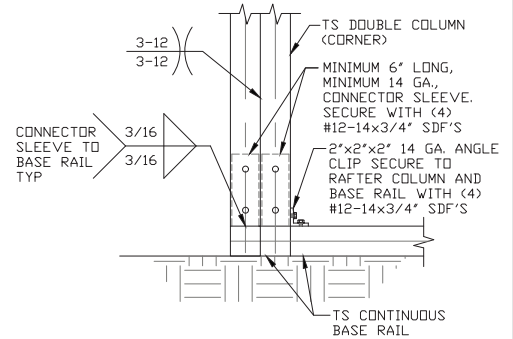
SCALE: NTS



3B

COLUMN/BASE RAIL CONNECTION DETAIL

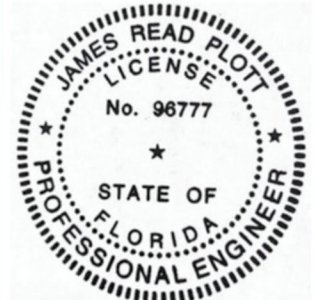
SCALE: NTS



5A

END COLUMN/BASE RAIL CONNECTION DETAIL

SCALE: NTS



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Plans Expiration Date:

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MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

DRAWN BY: LT

CHECKED BY: AM

PROJECT MGR: JRP

CLIENT: BLUESTONE

BLUESTONE CARPORTS AND GARAGES
380 HALL RD.
CAIRO, GA 39828
30'-0"x16'-0" LWP ENCLOSED STRUCTURE

DATE: 4-7-25

SHT. 12

SCALE: NTS

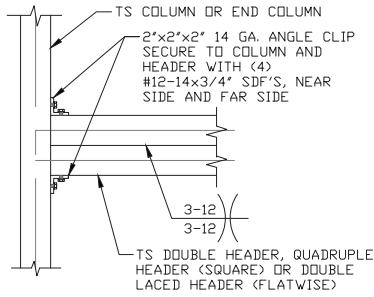
DWG. NO: SK-3

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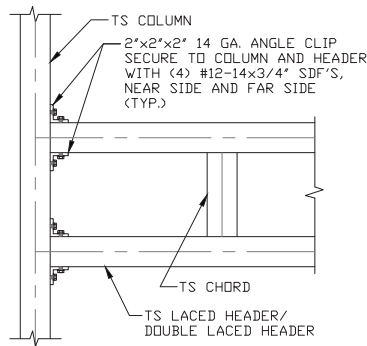
CONNECTION DETAILS



6A

DOUBLE HEADER TO COLUMN CONNECTION DETAIL

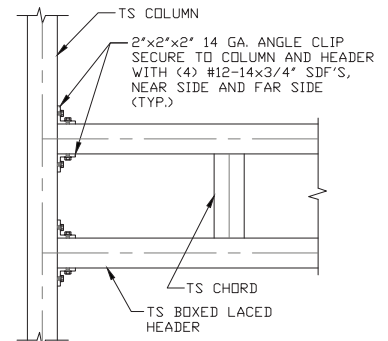
SCALE: NTS



6B

LACED HEADER TO COLUMN CONNECTION DETAIL

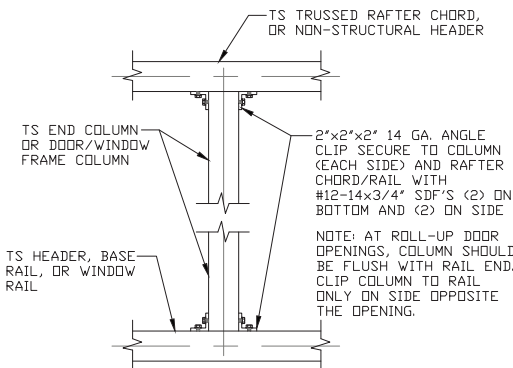
SCALE: NTS



6C

DOUBLE LACED HEADER OR BOXED LACED HEADER TO COLUMN CONNECTION DETAIL

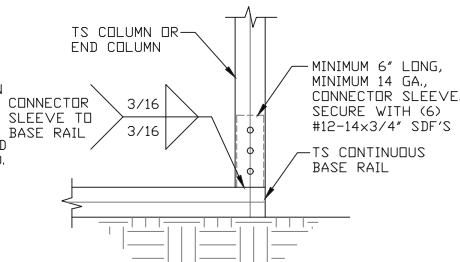
SCALE: NTS



7

COLUMN TO HEADER, BASE RAIL, OR WINDOW RAIL CONNECTION DETAIL

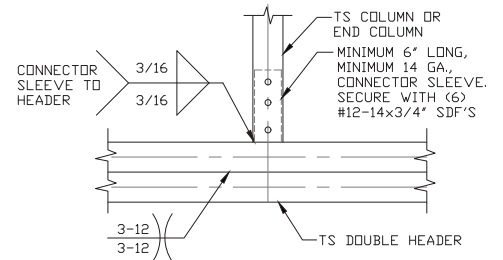
SCALE: NTS



8

COLUMN/BASE RAIL CONNECTION DETAIL

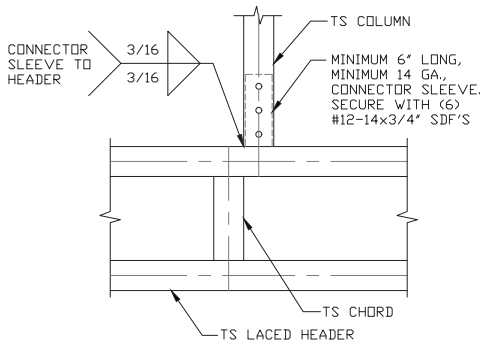
SCALE: NTS



9

COLUMN/DOUBLE HEADER CONNECTION DETAIL

SCALE: NTS



9A

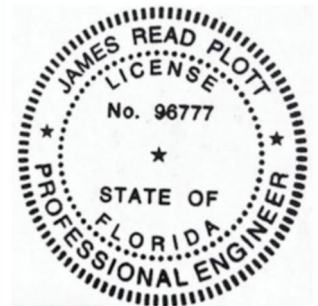
COLUMN/LACED HEADER CONNECTION DETAIL

SCALE: NTS

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DRAWN BY: LT

CHECKED BY: AM

PROJECT MGR: JRP

CLIENT: BLUESTONE

BLUESTONE CARPORTS AND GARAGES
380 HALL RD.
CAIRO, GA 39828
30'-0"x16'-0" LWP ENCLOSED STRUCTURE

DATE: 4-7-25

SHT. 13

SCALE: NTS

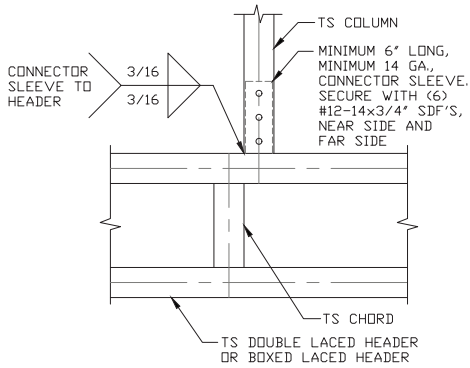
DWG. NO: SK-3

JOB NO: 21089S/
24012S/25096S

REV: 1

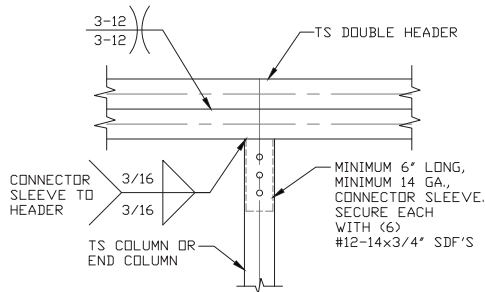
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CONNECTION DETAILS



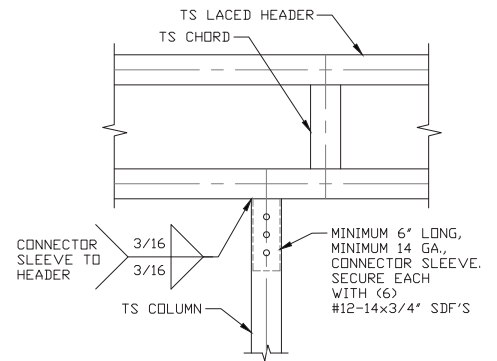
9B COLUMN/DOUBLE LACED
HEADER OR BOXED
LACED HEADER
CONNECTION DETAIL

SCALE: NTS



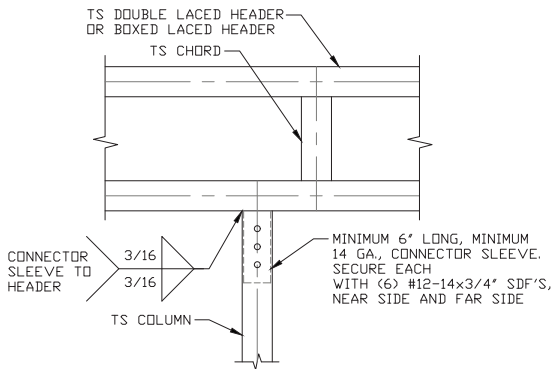
10 DOUBLE HEADER/COLUMN
CONNECTION DETAIL

SCALE: NTS



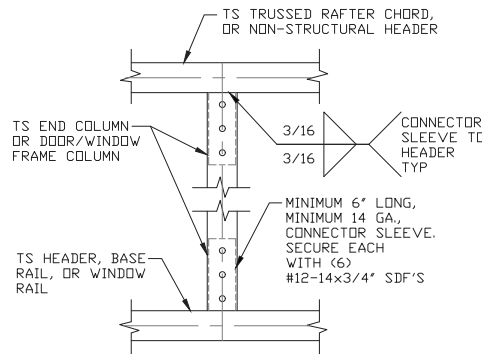
10A LACED HEADER/COLUMN
CONNECTION DETAIL

SCALE: NTS



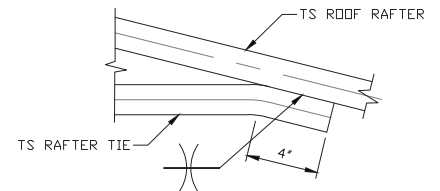
10B DOUBLE LACED HEADER
OR BOXED LACED
HEADER/COLUMN
CONNECTION DETAIL

SCALE: NTS



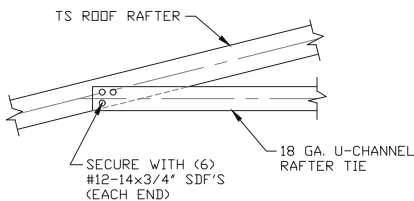
11 COLUMN TO HEADER
OR BASE RAIL
CONNECTION DETAIL

SCALE: NTS



12 RAFTER TIE
CONNECTION DETAIL

SCALE: NTS



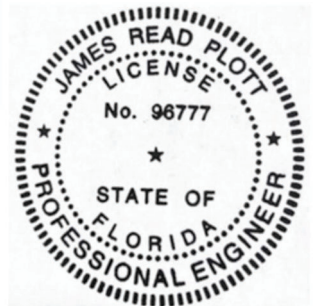
12A RAFTER TIE
CONNECTION DETAIL

SCALE: NTS

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DRAWN BY: LT

CHECKED BY: AM

PROJECT MGR: JRP

CLIENT: BLUESTONE

BLUESTONE CARPORTS AND GARAGES
380 HALL RD.
CAIRO, GA 39828
30'-0"x16'-0" LWP ENCLOSED STRUCTURE

DATE: 4-7-25

SHT. 14

SCALE: NTS

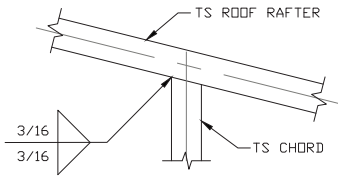
DWG. NO: SK-3

**JOB NO: 21089S/
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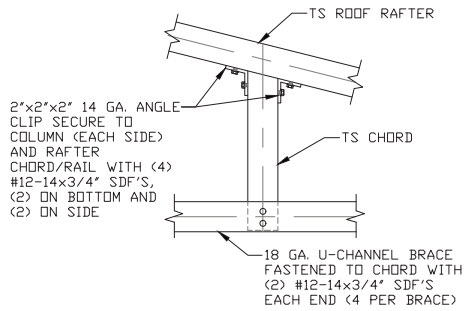
CONNECTION DETAILS



13

RAFTER TO CHORD CONNECTION DETAIL

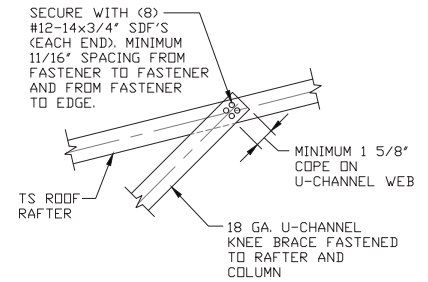
SCALE: NTS



13A

RAFTER TO CHORD CONNECTION DETAIL

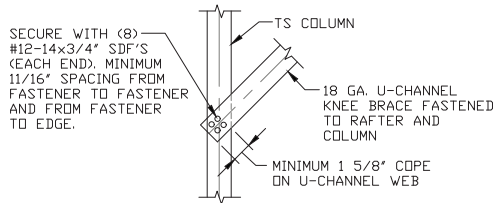
SCALE: NTS



14

U-CHANNEL TO RAFTER CONNECTION DETAIL

SCALE: NTS



15

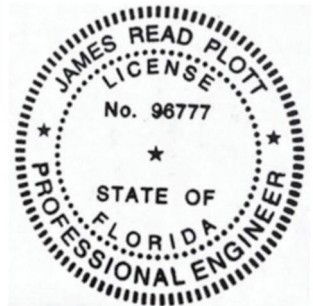
U-CHANNEL TO COLUMN CONNECTION DETAIL

SCALE: NTS

Validity Notice

Plans Expiration Date:

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PROJECT MGR: JRP

CLIENT: BLUESTONE

BLUESTONE CARPORTS AND GARAGES
380 HALL RD.
CAIRO, GA 39828
30'-0"x16'-0" LWP ENCLOSED STRUCTURE

DATE: 4-7-25

SHT. 15

SCALE: NTS

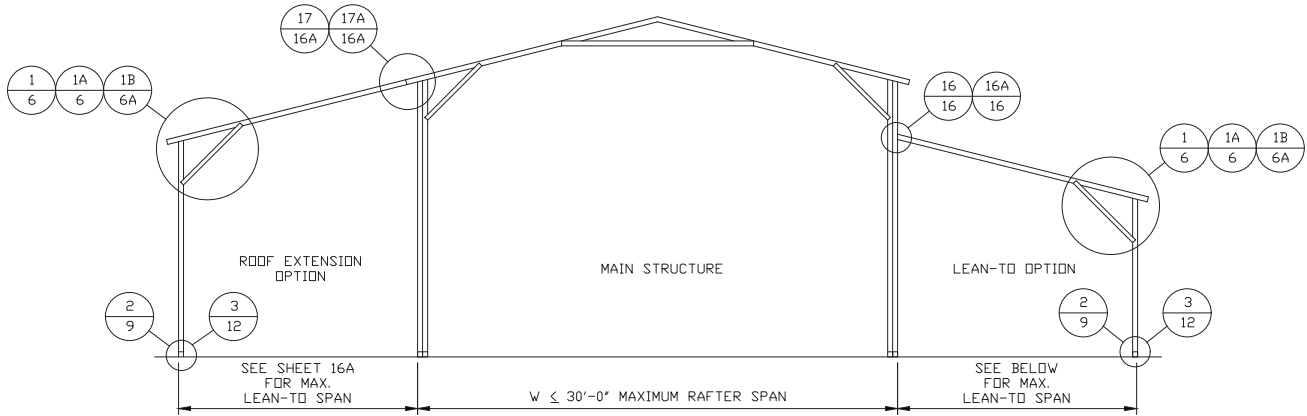
DWG. NO: SK-3

JOB NO: 21089S/
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LEAN-TO OPTIONS (BOX EAVE RAFTER)



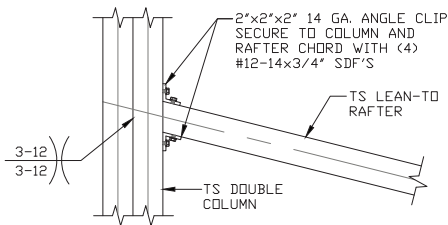
TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

SCALE: NTS

MAXIMUM WIDTH OF DOUBLE TUBE MEMBER (RAFTER AND COLUMN) ROOF EXTENSION AND LEAN-TO IS 16'-0".

MAXIMUM WIDTH OF SINGLE TUBE MEMBER (RAFTER AND COLUMN) ROOF EXTENSION AND LEAN-TO IS 12'-0".

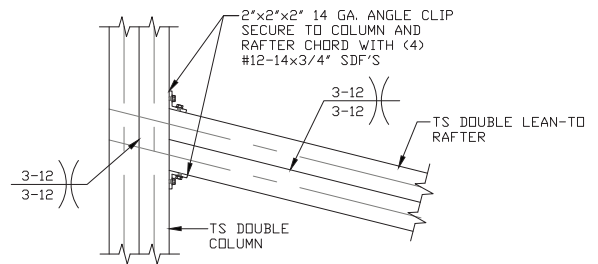
REFERENCE RAFTER COLUMN CONNECTION DETAILS FOR APPROPRIATE COLUMN HEIGHT AND TUBING SPECIFICATION.



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS $\leq 12'-0"$

SCALE: NTS

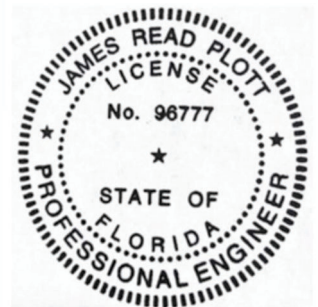
16



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS $12'-0" < \text{TO} \leq 16'-0"$

SCALE: NTS

16A



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PROJECT MGR: JRP

CLIENT: BLUESTONE

BLUESTONE CARPORTS AND GARAGES
380 HALL RD.
CAIRO, GA 39828
30'-0"x16'-0" LWP ENCLOSED STRUCTURE

DATE: 4-7-25

SCALE: NTS

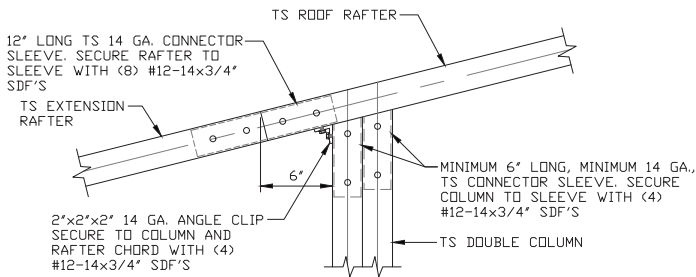
DWG. NO: SK-3

JOB NO: 21089S/
24012S/25096S

REV: 1

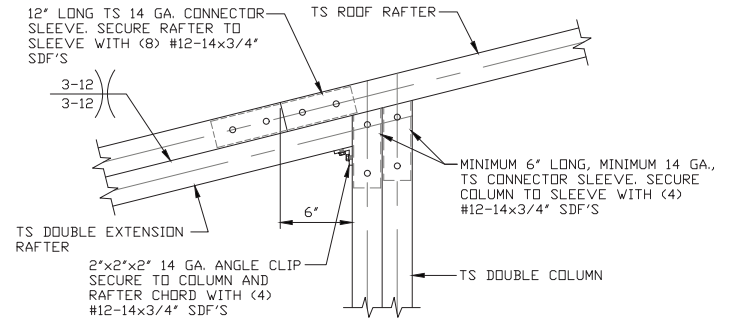
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BOX EAVE RAFTER LEAN-TO OPTIONS



17 SIDE EXTENSION RAFTER/COLUMN
DETAIL FOR SPANS $\leq 12'-0''$

SCALE: NTS



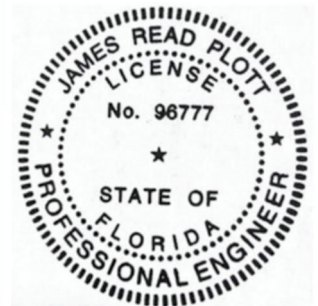
17A SIDE EXTENSION RAFTER/COLUMN
DETAIL FOR SPANS $12'-0'' < \text{TO} \leq 16'-0''$

SCALE: NTS

Validity Notice

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DRAWN BY: LT

CHECKED BY: AM

PROJECT MGR: JRP

CLIENT: BLUESTONE

**BLUESTONE CARPORTS AND GARAGES
380 HALL RD.
CAIRO, GA 39828
30'-0"x16'-0" LWP ENCLOSED STRUCTURE**

DATE: 4-7-25

SCALE: NTS

SHT. 16A

DWG. NO: SK-3

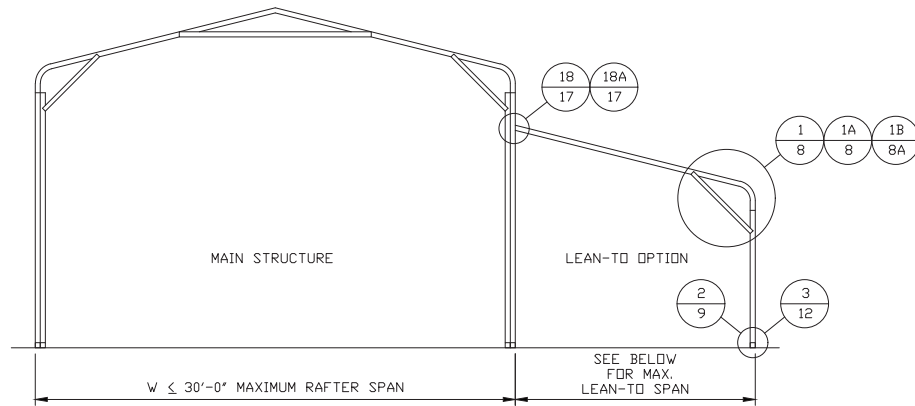
**JOB NO: 21089S/
24012S/25096S**

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LEAN-TO OPTIONS (BOW EAVE RAFTER)

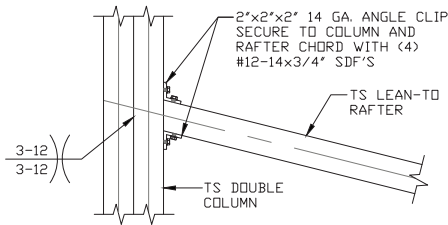
NOTE: BOW EAVE STRUCTURES CAN ONLY BE USED FOR WIND SPEEDS $\leq$ 130 MPH.



TYPICAL BOW EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION

SCALE: NTS

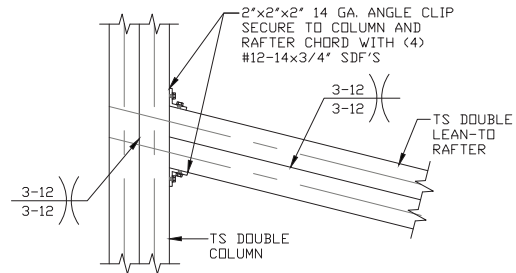
MAXIMUM WIDTH OF DOUBLE TUBE MEMBER (RAFTER AND COLUMN) ROOF EXTENSION AND LEAN-TO IS 16'-0".
MAXIMUM WIDTH OF SINGLE TUBE MEMBER (RAFTER AND COLUMN) ROOF EXTENSION AND LEAN-TO IS 12'-0".
REFERENCE RAFTER COLUMN CONNECTION DETAILS FOR APPROPRIATE COLUMN HEIGHT AND TUBING SPECIFICATION.



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS $\leq$ 12'-0"

SCALE: NTS

18



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS 12'-0" < TO $\leq$ 16'-0"

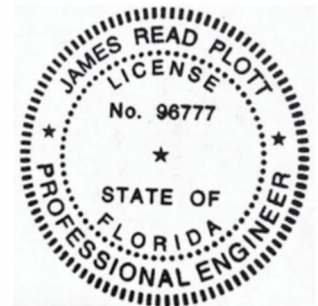
SCALE: NTS

18A

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DRAWN BY: LT

CHECKED BY: AM

PROJECT MGR: JRP

CLIENT: BLUESTONE

BLUESTONE CARPORTS AND GARAGES
380 HALL RD.
CAIRO, GA 39828
30'-0"x16'-0" LWP ENCLOSED STRUCTURE

DATE: 4-7-25

SHT. 17

SCALE: NTS

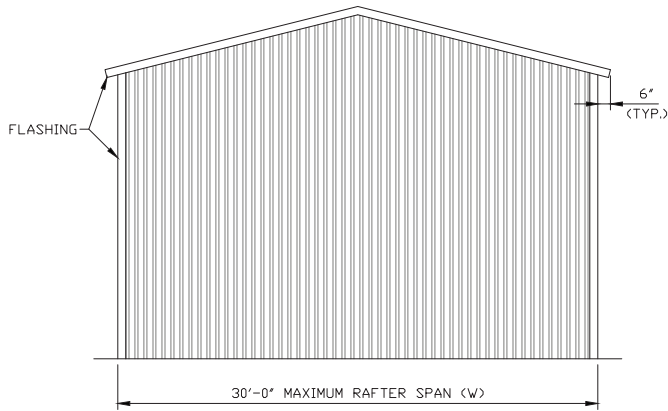
DWG. NO: SK-3

JOB NO: 21089S/
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REV: 1

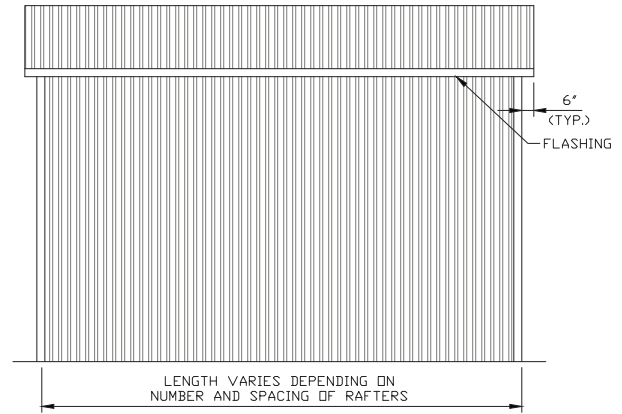
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BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



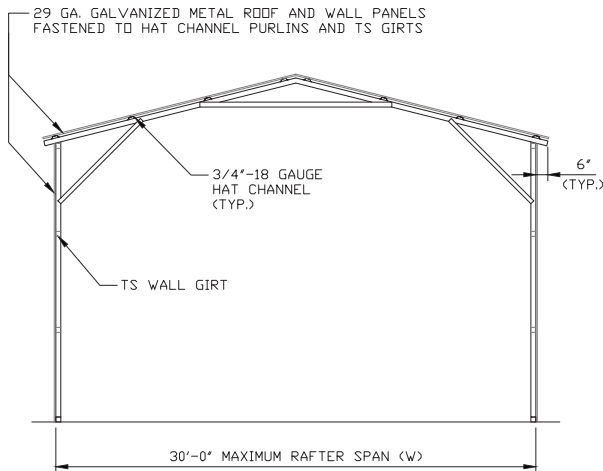
**TYPICAL END ELEVATION
VERTICAL ROOF/SIDING**

SCALE: NTS



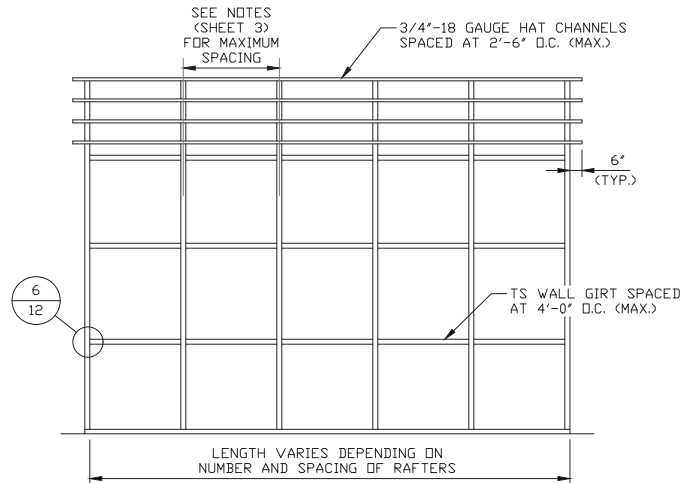
**TYPICAL SIDE ELEVATION
VERTICAL ROOF/SIDING**

SCALE: NTS



**TYPICAL SECTION VERTICAL
ROOF/SIDING OPTION**

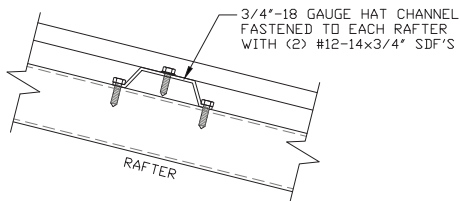
SCALE: NTS



**TYPICAL FRAMING SECTION VERTICAL
ROOF/SIDING OPTION WITH TS GIRTS**

SCALE: NTS

NOTE: HAT CHANNELS CAN BE USED AS AN OPTION IN PLACE OF TS WALL GIRTS. BE SPACED AT 4'-0" O.C. M.



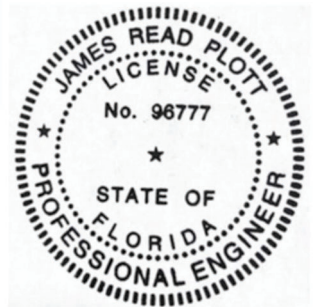
PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF PANELS)
SCALE: NTS

Validity Notice

Plans Expiration Date:

7 April 2027



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**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: LT

CHECKED BY: AM

PROJECT MGR: JRP

CLIENT: BLUESTONE

BLUESTONE CARPORTS AND GARAGES
380 HALL RD.
CAIRO, GA 39828
30'-0"x16'-0" LWP ENCLOSED STRUCTURE

DATE: 4-7-25

SHT. 18

SCALE: NTS

DWG. NO: SK-3

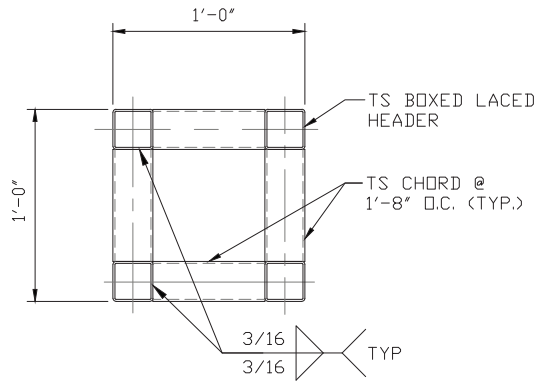
**JOB NO: 21089S/
24012S/25096S**

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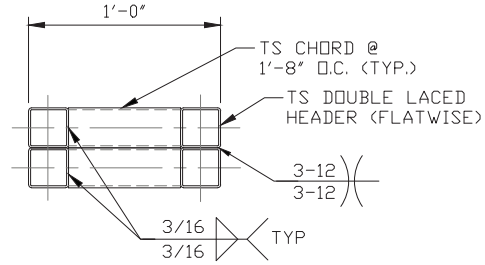
SIDE WALL HEADER OPTIONS FOR TS LACED COLUMNS

NOTE: HEADER DESIGN DOES NOT TAKE IN TO ACCOUNT ADDITIONAL ROOF LOADING FROM ATTACHED LEAN-TO STRUCTURES.



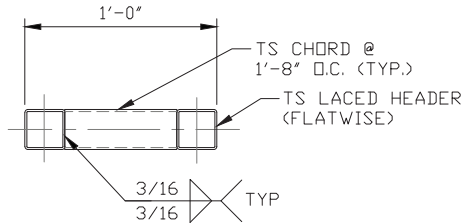
**HEADER DETAIL FOR
19'-0" < LENGTH ≤ 20'-0"**

SCALE: NTS



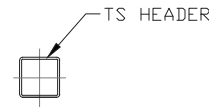
**HEADER DETAIL FOR
12'-0" < LENGTH ≤ 19'-0"**

SCALE: NTS



**HEADER DETAIL FOR
LENGTH ≤ 12'-0"**

SCALE: NTS



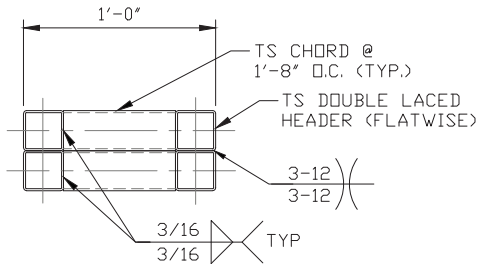
**HEADER DETAIL FOR
LENGTH ≤ 5'-0"**

SCALE: NTS

NOTE: ONLY ALLOWED BETWEEN COLUMNS.

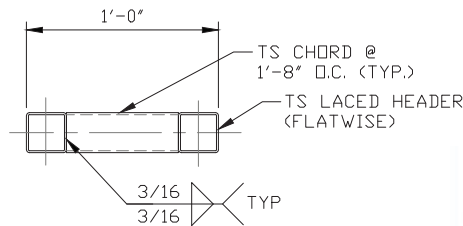
END WALL HEADER OPTIONS FOR TS LACED COLUMNS

NOTE: HEADER DESIGN DOES NOT TAKE IN TO ACCOUNT ADDITIONAL ROOF LOADING FROM ATTACHED LEAN-TO STRUCTURES.



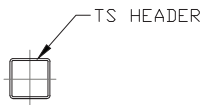
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13'-0" < LENGTH ≤ 20'-0"**

SCALE: NTS



**HEADER DETAIL FOR
LENGTH ≤ 13'-0"**

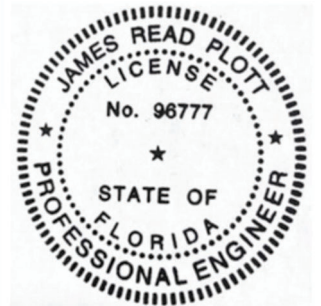
SCALE: NTS



**HEADER DETAIL FOR
LENGTH ≤ 5'-0"**

SCALE: NTS

NOTE: ONLY ALLOWED BETWEEN COLUMNS.



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Validity Notice

Plans Expiration Date:

7 April 2027

**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: LT

CHECKED BY: AM

PROJECT MGR: JRP

CLIENT: BLUESTONE

**BLUESTONE CARPORTS AND GARAGES
380 HALL RD.
CAIRO, GA 39828
30'-0"x16'-0" LWP ENCLOSED STRUCTURE**

DATE: 4-7-25

SHT. 19

SCALE: NTS

DWG. NO: SK-3

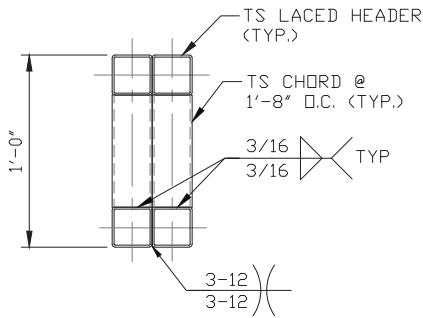
**JOB NO: 21089S/
24012S/25096S**

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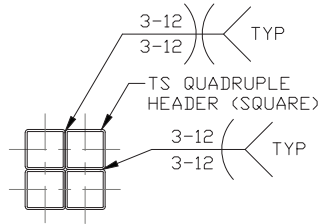
SIDE WALL HEADER OPTIONS FOR TS DOUBLE COLUMNS

NOTE: HEADER DESIGN DOES NOT TAKE IN TO ACCOUNT ADDITIONAL ROOF LOADING FROM ATTACHED LEAN-TO STRUCTURES.



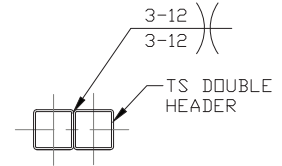
**HEADER DETAIL FOR
15'-0" < LENGTH ≤ 20'-0"**

SCALE: NTS



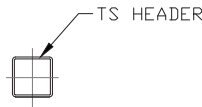
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10'-0" < LENGTH ≤ 15'-0"**

SCALE: NTS



**HEADER DETAIL FOR
LENGTH ≤ 10'-0"**

SCALE: NTS



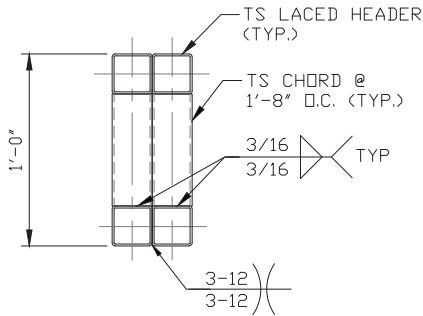
**HEADER DETAIL FOR
LENGTH ≤ 5'-0"**

SCALE: NTS

NOTE: ONLY ALLOWED BETWEEN COLUMNS.

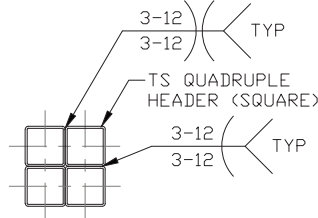
END WALL HEADER OPTIONS FOR TS DOUBLE COLUMNS

NOTE: HEADER DESIGN DOES NOT TAKE IN TO ACCOUNT ADDITIONAL ROOF LOADING FROM ATTACHED LEAN-TO STRUCTURES.



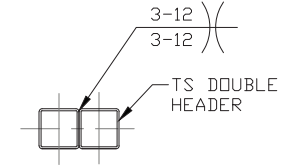
**HEADER DETAIL FOR
16'-0" < LENGTH ≤ 20'-0"**

SCALE: NTS



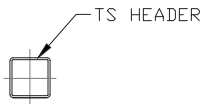
**HEADER DETAIL FOR
13'-0" < LENGTH ≤ 16'-0"**

SCALE: NTS



**HEADER DETAIL FOR
LENGTH < 13'-0"**

SCALE:



**HEADER DETAIL FOR
LENGTH ≤ 5'-0"**

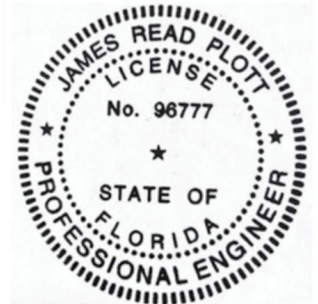
SCALE: NTS

NOTE: ONLY ALLOWED BETWEEN COLUMNS.

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**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: LT

CHECKED BY: AM

PROJECT MGR: JRP

CLIENT: BLUESTONE

BLUESTONE CARPORTS AND GARAGES
380 HALL RD.
CAIRO, GA 39828
30'-0"x16'-0" LWP ENCLOSED STRUCTURE

DATE: 4-7-25

SHT. 19A

SCALE: NTS

DWG. NO: SK-3

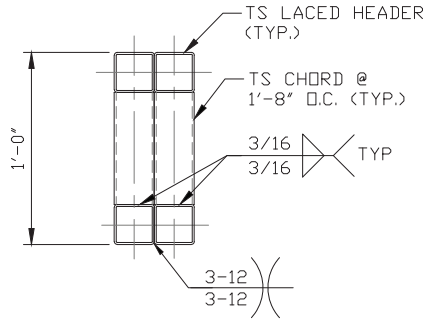
**JOB NO: 21089S/
24012S/25096S**

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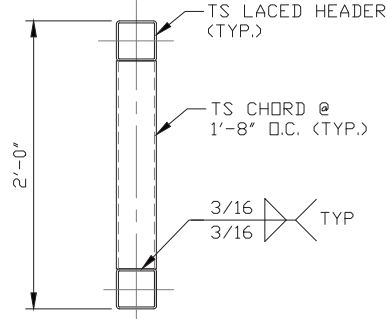
SIDE WALL HEADER OPTIONS FOR TS SINGLE COLUMNS

NOTE: HEADER DESIGN DOES NOT TAKE IN TO ACCOUNT ADDITIONAL ROOF LOADING FROM ATTACHED LEAN-TO STRUCTURES.



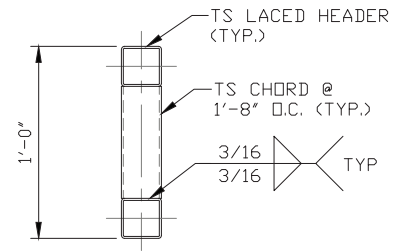
**HEADER DETAIL FOR
16'-0" < LENGTH ≤ 20'-0"**

SCALE: NTS



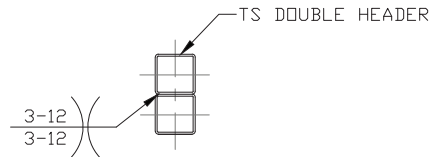
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14'-0" < LENGTH ≤ 16'-0"**

SCALE: NTS



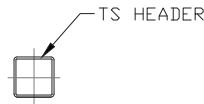
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11'-0" < LENGTH ≤ 14'-0"**

SCALE: NTS



**HEADER DETAIL FOR
7'-0" < LENGTH ≤ 11'-0"**

SCALE: NTS



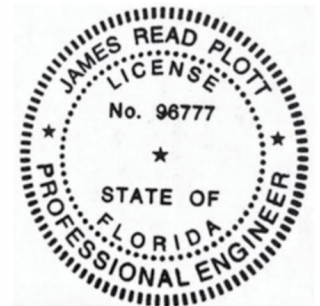
**HEADER DETAIL FOR
LENGTH ≤ 7'-0"**

SCALE: NTS

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DRAWN BY: LT

CHECKED BY: AM

PROJECT MGR: JRP

CLIENT: BLUESTONE

**BLUESTONE CARPORTS AND GARAGES
380 HALL RD.
CAIRO, GA 39828
30'-0"x16'-0" LWP ENCLOSED STRUCTURE**

DATE: 4-7-25

SHT. 19B

SCALE: NTS

DWG. NO: SK-3

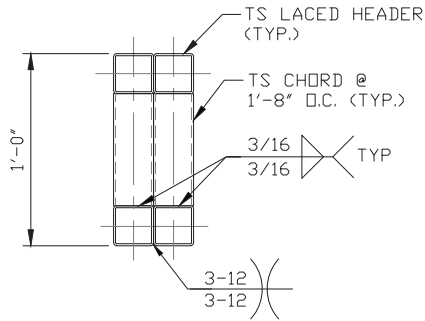
**JOB NO: 21089S/
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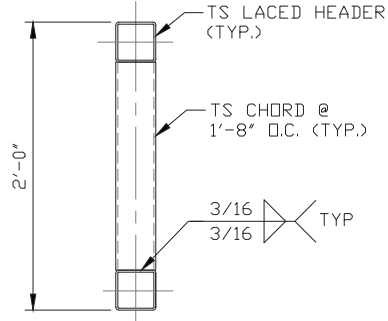
END WALL HEADER OPTIONS FOR TS SINGLE COLUMNS

NOTE: HEADER DESIGN DOES NOT TAKE IN TO ACCOUNT ADDITIONAL ROOF LOADING FROM ATTACHED LEAN-TO STRUCTURES.



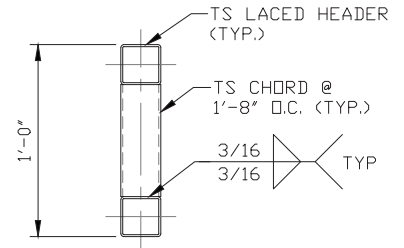
**HEADER DETAIL FOR
12'-0" < LENGTH ≤ 20'-0"**

SCALE: NTS



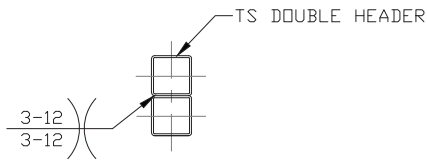
**HEADER DETAIL FOR
11'-0" < LENGTH ≤ 12'-0"**

SCALE: NTS



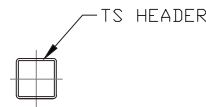
**HEADER DETAIL FOR
10'-0" < LENGTH ≤ 11'-0"**

SCALE: NTS



**HEADER DETAIL FOR
9'-0" < LENGTH ≤ 10'-0"**

SCALE: NTS



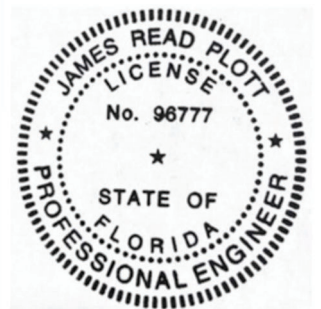
**HEADER DETAIL FOR
LENGTH ≤ 9'-0"**

SCALE: NTS

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DRAWN BY: LT

CHECKED BY: AM

PROJECT MGR: JRP

CLIENT: BLUESTONE

**BLUESTONE CARPORTS AND GARAGES
380 HALL RD.
CAIRO, GA 39828
30'-0"x16'-0" LWP ENCLOSED STRUCTURE**

DATE: 4-7-25

SHT. 19C

SCALE: NTS

DWG. NO: SK-3

**JOB NO: 21089S/
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