



STRUCTURAL DESIGN ENCLOSED BUILDING

**MAXIMUM 51'-0"-60'-0" WIDE X 23'- 0" EAVE HEIGHT-
BOX EAVE FRAME**

10 February 2025

Revision 2

M&A Project No. 21352S/23283S/25011S

Prepared for:

**Custom Built Structures, Inc.
510 Riverside Drive Suite 100
Mt. Airy, NC 27030**

Prepared by:

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

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



Validity Notice

**Plans Expiration Date: 10 February 2026
Plans are valid for one year from issuance date**

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MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

DRAWN BY: JG

CHECKED BY: JS

PROJECT MGR: JRP

CLIENT: CBS

CUSTOM BUILT STRUCTURES, INC.
510 RIVERSIDE DRIVE SUITE 100
MOUNT AIRY, NC 27030
51'-0" - 60'-0" x 23'-0" ENCLOSED BUILDING

DATE: 2-10-25

SHT. 1

SCALE: NTS

JOB NO: 21352S/23283S/25011S

DWG. NO: SK-3

REV: 2

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INSTALLATION NOTES AND SPECIFICATIONS

- DESIGN IS FOR MAXIMUM 51'-0"-60'-0" WIDE x 20'-0" EAVE HEIGHT ENCLOSED STRUCTURES.
- DESIGN WAS DONE IN ACCORDANCE WITH ALL APPLICABLE BUILDING CODES LISTED ON SHEET 3A.
- DESIGN LOADS ARE AS FOLLOWS:
 - ROOF DEAD LOAD:
SELF-WEIGHT = 1.5 PSF
MEP = 10 PSF
COLLATERAL = 0 PSF
 - ROOF LIVE LOAD = 20 PSF
 - FLOOR LIVE LOAD = 100 PSF (4" CONCRETE SLAB-ON-GRADE)
 - GROUND SNOW LOAD = 30 PSF PER IBC 2021 AND EARLIER
= 42 PSF PER 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 ONLY BE USED FOR GROUND SNOW LOADS \leq 15 PSF.
- 3-SECOND GUST ULTIMATE WIND SPEED = \leq 155 MPH (NOMINAL WIND SPEED = \leq 120 MPH).
- MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 4.0 FEET (UNLESS NOTED OTHERWISE).
- END WALL COLUMNS (COLUMNS) ARE SIMILAR TO SIDE WALL COLUMNS IN SIZE AND SPACING (UNLESS NOTED OTHERWISE).
- RISK CATEGORY II.
- WIND EXPOSURE CATEGORY C.
- STRUCTURAL ANALYSIS/DESIGN IS BASED ON TS MEETING THE REQUIREMENTS OF ASTM A653 TYPE SS GRADE 50 WITH MINIMUM YIELD STRENGTH (FY) OF 50 KSI AND GALVANIZING MEETING THE REQUIREMENTS OF G60.
- 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). WHERE TS 2 1/2" x 2 1/2" - 14 GAUGE IS SPECIFIED, TS 2 1/4" x 2 1/4" - 12 GAUGE MAY BE USED AS AN OPTION. ONLY VERTICAL ROOF PANELS ARE ALLOWED; HORIZONTAL ROOF PANELS ARE PROHIBITED.
- CONNECTOR SLEEVES ARE MINIMUM 6" LONG, TS 2 1/4"x2 1/4"-14 GAUGE FOR 2 1/2"x2 1/2"-14 GAUGE AND TS 2"x2"-14 GAUGE FOR 2 1/4"x2 1/4"-12 GAUGE FRAMING MEMBERS (UNLESS NOTED OTHERWISE).
- AVERAGE FASTENER SPACING ON-CENTERS = 10 INCHES.
- FASTENERS CONSIST OF #12-14x3/4" SELF-DRILLING FASTENERS WITH CONTROL SEAL WASHER. SPECIFICATIONS APPLICABLE ONLY FOR ROOF SLOPES OF 14° (3:12 PITCH) OR LESS. ROOF SLOPES LESS THAN 3:12 REQUIRE USE OF LAP JOINT SEALANT.
- ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6" OF EACH COLUMN (COLUMN) ALONG SIDES AND ENDS.
- WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:
SOIL SITE CLASS = D
RISK CATEGORY II
R= 3.25
S_{DS}= 2.625 g
S_{D1}= 2.13 g
I_E= 1.0
V= C_SW
- MAXIMUM THRESHOLD HEIGHT IS 1/2" FOR PERSONNEL DOORS UTILIZED AS MEANS OF EGRESS.
- CONTRACTOR TO PROVIDE ADEQUATE BRACING FOR STRUCTURE SO THAT IT WILL BE STABLE DURING ALL STAGES OF CONSTRUCTION. THE STRUCTURE AND FOUNDATIONS ARE DESIGNED FOR A COMPLETED CONDITION ONLY AND, THEREFORE, REQUIRE ADDITIONAL SUPPORT TO MAINTAIN STABILITY BEFORE COMPLETION.
- INSTALL A MINIMUM OF TWO (2) ROWS OF BOTTOM CHORD BRIDGING SPACED EQUALLY. BRIDGING MAY BE HAT CHANNEL, C-CHANNEL OR TS. BRIDGING MY BE ATTACHED TO TOP OR BOTTOM OF TRUSS BOTTOM CHORD TS MEMBER USING A MINIMUM TWO (2) #12-14x3/4" SELF-DRILLING FASTENERS (SDF'S).
- 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.
- IF MORE THAN 50% OF COLUMN (LEG) 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.
- WHEN USING GENERIC MASTER DESIGNS TO OBTAIN BUILDING PERMIT, IT MUST BE ACCOMPANIED BY SUFFICIENT ADDITIONAL INFORMATION TO INDICATE THE LOCATION, NATURE, AND EXTENT OF THE CONSTRUCTION AND SHOW IN DETAIL THAT IT WILL CONFIRM TO ALL APPLICABLE CODES, LAWS, ORDINANCES, RULES, AND REGULATIONS.
- 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.
- ANY VARIATION FROM THE ANALYSIS/DESIGN PARAMETERS OF THE MASTER DESIGN REQUIRES THE DEVELOPMENT OF A SITE-SPECIFIC DESIGN.
- THIS STRUCTURE HAS NOT BEEN DESIGNED IN ACCORDANCE WITH THE INTERNATIONAL RESIDENTIAL CODE (IRC) AND/OR LOCAL CODES/ORDINANCES TO MEET ALL OF THE REQUIREMENTS AS A RESIDENCE.
- USE E70 ELECTRODES FOR WELDED CONNECTIONS. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF AWS D1.3.

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CLIENT: CBS

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510 RIVERSIDE DRIVE SUITE 100
MOUNT AIRY, NC 27030
51'-0" - 60'-0"x23'-0" ENCLOSED BUILDING

DATE: 2-10-25

SHT. 3

SCALE: NTS

DWG. NO: SK-3

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REV: 2

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)
2012 INTERNATIONAL BUILDING CODE (IBC 2012)
2009 INTERNATIONAL BUILDING CODE (IBC 2009)
2006 INTERNATIONAL BUILDING CODE (IBC 2006)

ALABAMA BUILDING CODE 2021
<ADOPTS THE IBC 2021 WITHOUT AMENDMENTS>
<IBC 2015, IBC 2018, IBC 2021
<DEPENDENT UPON LOCAL JURISDICTION>>

ARKANSAS FIRE PREVENTION CODE VOL II - BUILDINGS
<ADOPTS THE IBC 2021 WITH AMENDMENTS>

GEORGIA STATE MINIMUM STANDARD BUILDING CODE 2018
<ADOPTS THE IBC 2018 WITH AMENDMENTS>

INDIANA BUILDING CODE, 2014 EDITION
<ADOPTS THE IBC 2012 WITH AMENDMENTS>

KANSAS BUILDING CODE 2018
<ADOPTS THE IBC 2018 WITH AMENDMENTS>
WICHITA-SEDGWICK BUILDING CODE 2024
<ADOPTS THE IBC 2024 WITH AMENDMENTS>
<IBC 2006, IBC 2018 <DEPENDENT UPON LOCAL JURISDICTION>>

KENTUCKY BUILDING CODE 2018
<ADOPTS THE IBC 2015 WITH AMENDMENTS>

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

MISSOURI BUILDING CODE 2018
<ADOPTS THE IBC 2018 WITHOUT AMENDMENTS>
KANSAS CITY BUILDING CODE 2018
<ADOPTS THE IBC 2018 WITH AMENDMENTS>
<IBC 2006, IBC 2009, IBC 2012, IBC 2015, IBC 2018, IBC 2021
<DEPENDENT UPON LOCAL JURISDICTION>>

NORTH CAROLINA BUILDING CODE 2018
<ADOPTS THE IBC 2015 WITH AMENDMENTS>

OHIO BUILDING CODE 2024
<ADOPTS THE IBC 2021 WITH AMENDMENTS>

OKLAHOMA BUILDING CODE 2018
<ADOPTS THE IBC 2018 WITH AMENDMENTS>
<IBC 2015, IBC 2018 <DEPENDENT UPON LOCAL JURISDICTION>>

PENNSYLVANIA BUILDING CODE 2018
<ADOPTS THE IBC 2018 WITH AMENDMENTS>
PHILADELPHIA BUILDING CODE 2018
<ADOPTS THE IBC 2018 WITH AMENDMENTS>

SOUTH CAROLINA BUILDING CODE 2021
<ADOPTS THE IBC 2021 WITH AMENDMENTS>

TENNESSEE BUILDING CODE 2012
<ADOPTS THE IBC 2012 WITH AMENDMENTS>
KNOXVILLE BUILDING CODE 2024
<ADOPTS THE IBC 2024 WITHOUT AMENDMENTS>
BUILDING CODE OF METROPOLITAN NASHVILLE AND
DAVIDSON COUNTY <ADOPTS THE IBC 2018 WITH AMENDMENTS>
<IBC 2012, IBC 2018, IBC 2021 <DEPENDENT UPON LOCAL JURISDICTION>>

BUILDING CODE OF THE TEXAS INDUSTRIALIZED
HOUSING AND BUILDINGS PROGRAM
<ADOPTS THE IBC 2021 WITH AMENDMENTS>
AUSTIN BUILDING CODE 2021
<ADOPTS THE IBC 2021 WITH AMENDMENTS>
DALLAS BUILDING CODE
<ADOPTS THE IBC 2021 WITH AMENDMENTS>
FORT WORTH BUILDING CODE 2021
<ADOPTS THE IBC 2021 WITH AMENDMENTS>
CITY OF HOUSTON BUILDING CODE
<ADOPTS THE IBC 2021 WITH AMENDMENTS>
SAN ANTONIO BUILDING CODE 2021
<ADOPTS THE IBC 2021 WITH AMENDMENTS>
<IBC 2006, IBC 2009, IBC 2012, IBC 2015, IBC 2018,
IBC 2021 <DEPENDENT UPON LOCAL JURISDICTION>>

VIRGINIA UNIFORM STATEWIDE BUILDING CODE, PART I,
CONSTRUCTION/VIRGINIA CONSTRUCTION CODE (VCC)
<ADOPTS THE IBC 2021 WITH AMENDMENTS>

WEST VIRGINIA BUILDING CODE 2018
<ADOPTS THE IBC 2018 WITH AMENDMENTS>

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SHT. 3A

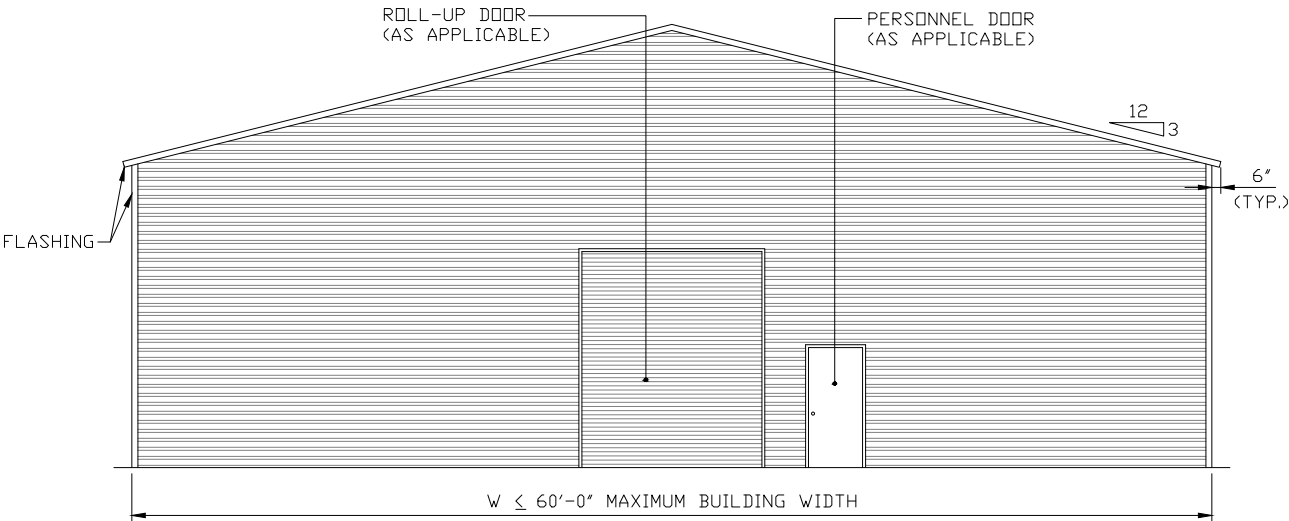
SCALE: NTS

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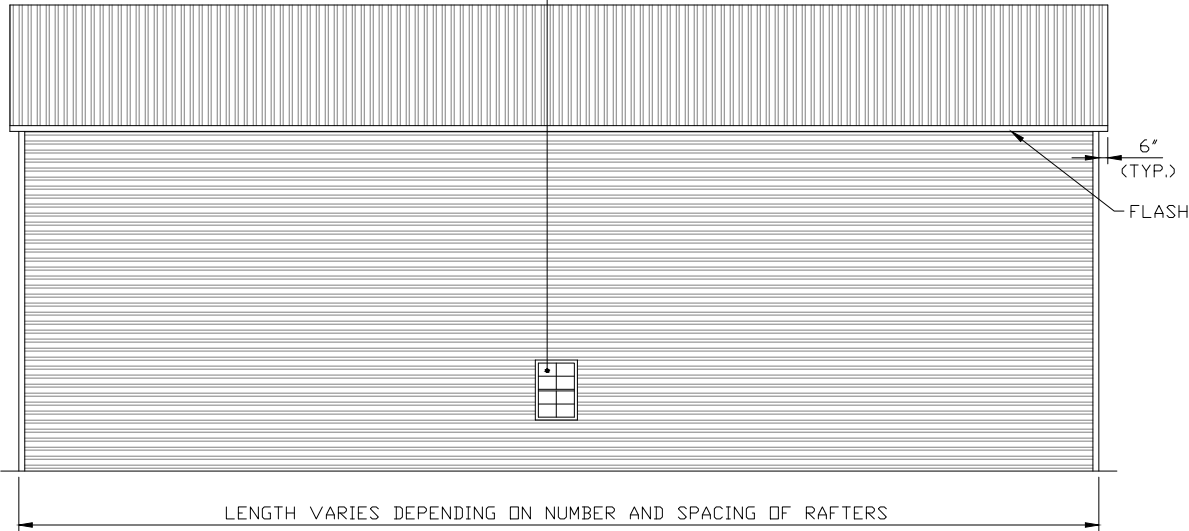
TYPICAL END AND SIDE ELEVATIONS



TYPICAL END ELEVATION-VERTICAL ROOF

SCALE: NTS

WINDOW (AS APPLICABLE)



TYPICAL SIDE ELEVATION-VERTICAL ROOF

SCALE: NTS

NOTE: HORIZONTAL ROOF PANELS ARE PROHIBITED.

NOTE: HORIZONTAL WALL PANEL ONLY ALLOWED FOR WIND SPEEDS ≤ 150 MPH.

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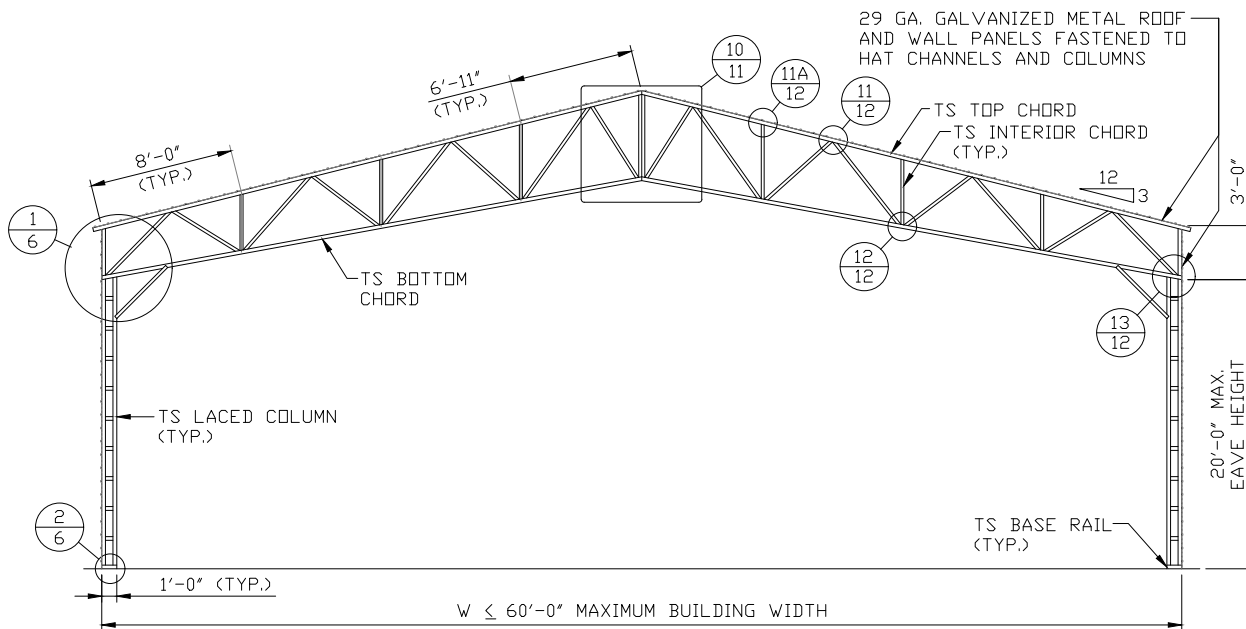
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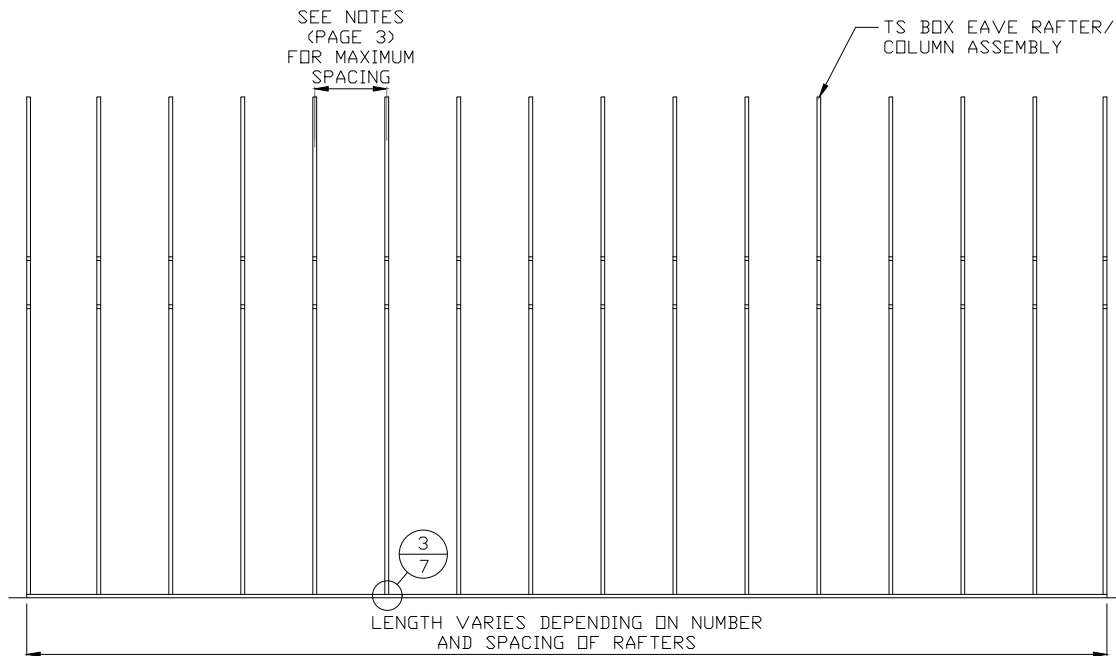
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TYPICAL RAFTER/COLUMN FRAME AND SIDE FRAMING SECTION (BOX EAVE STRUCTURE)



TYPICAL INTERIOR RAFTER/COLUMN FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
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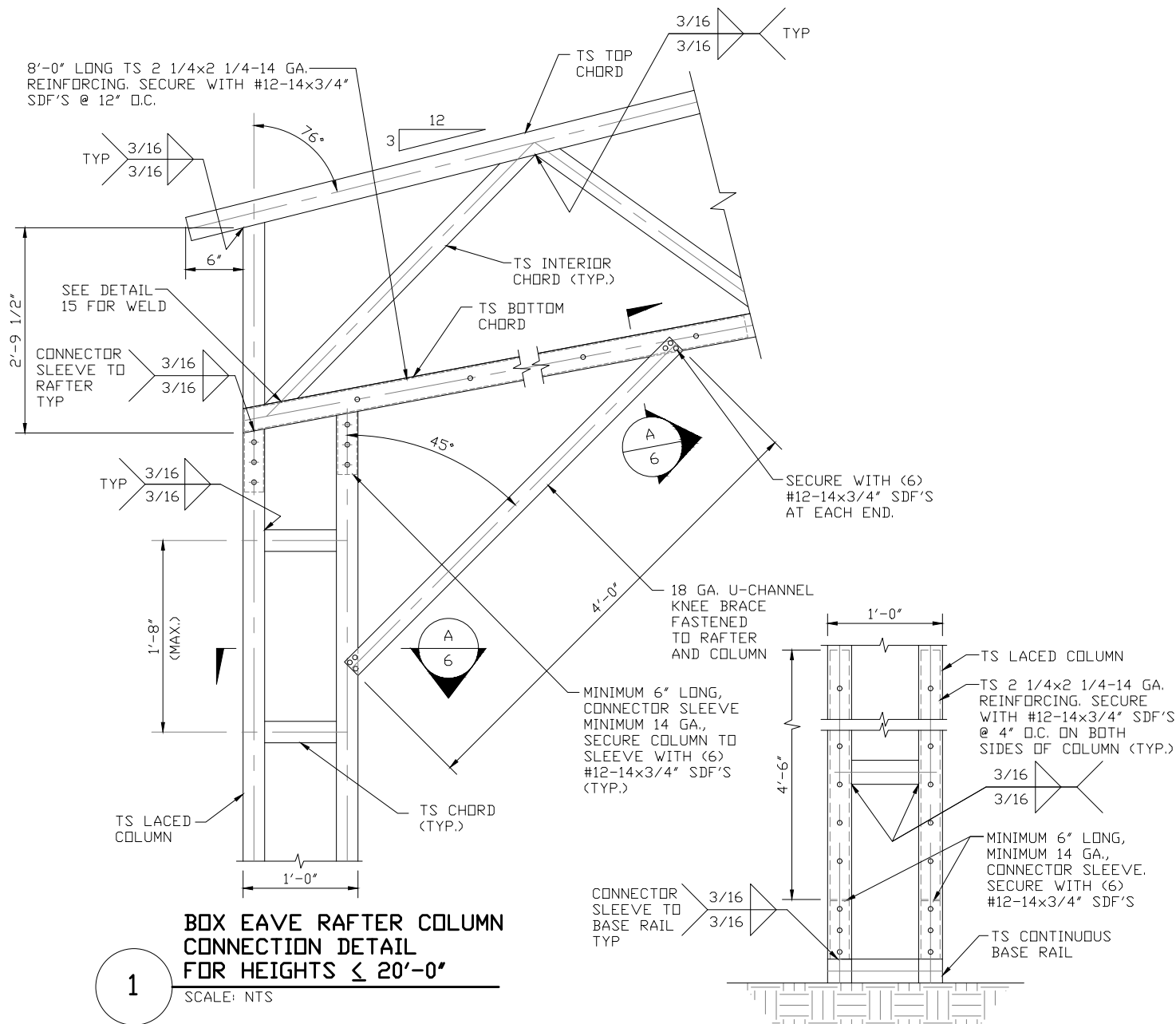
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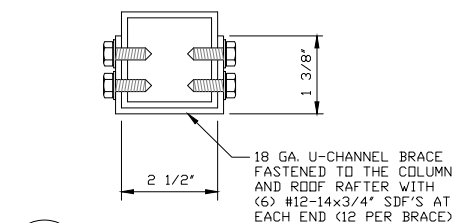
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COLUMN CONNECTION DETAILS (BOX EAVE STRUCTURE)



BOX EAVE RAFTER COLUMN
CONNECTION DETAIL
FOR HEIGHTS $\leq 20'-0"$

SCALE: NTS



BRACE SECTION

SCALE: NTS

NOTE: TRUSS AND LACED SECTIONS
NOT SHOWN FOR CLARITY.



COLUMN/BASE RAIL
CONNECTION DETAIL

SCALE: NTS

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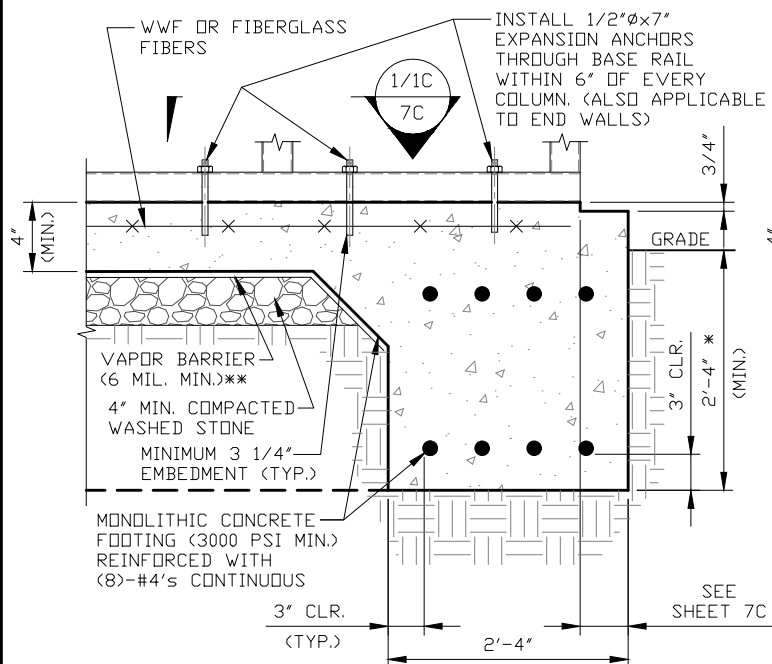
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-3 | REV. 2

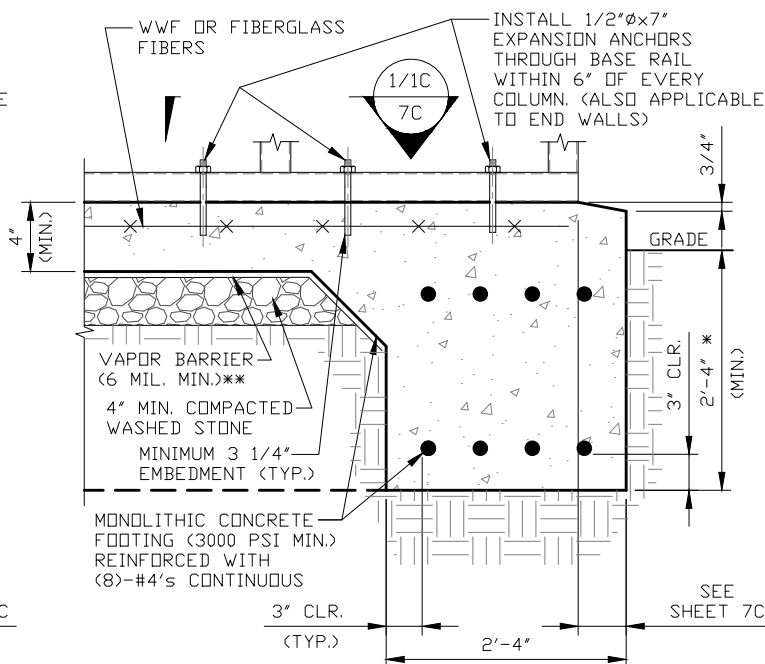
BASE RAIL ANCHORAGE OPTIONS FOR WIND SPEEDS 150 MPH < TO ≤ 155 MPH



3 CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

SCALE: NTS

- * COORDINATE WITH LOCAL BUILDING CODE AND/OR BUILDING OFFICIAL REGARDING REQUIRED FOOTING DEPTH.
- ** COORDINATE WITH LOCAL BUILDING CODE/ORDINANCE REGARDING MINIMUM VAPOR BARRIER THICKNESS.



3A CONCRETE MONOLITHIC SLAB RAIL ANCHORAGE

SCALE: NTS

- * COORDINATE WITH LOCAL BUILDING CODE AND/OR BUILDING OFFICIAL REGARDING REQUIRED FOOTING DEPTH.
- ** COORDINATE WITH LOCAL BUILDING CODE/ORDINANCE REGARDING MINIMUM VAPOR BARRIER THICKNESS.

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.

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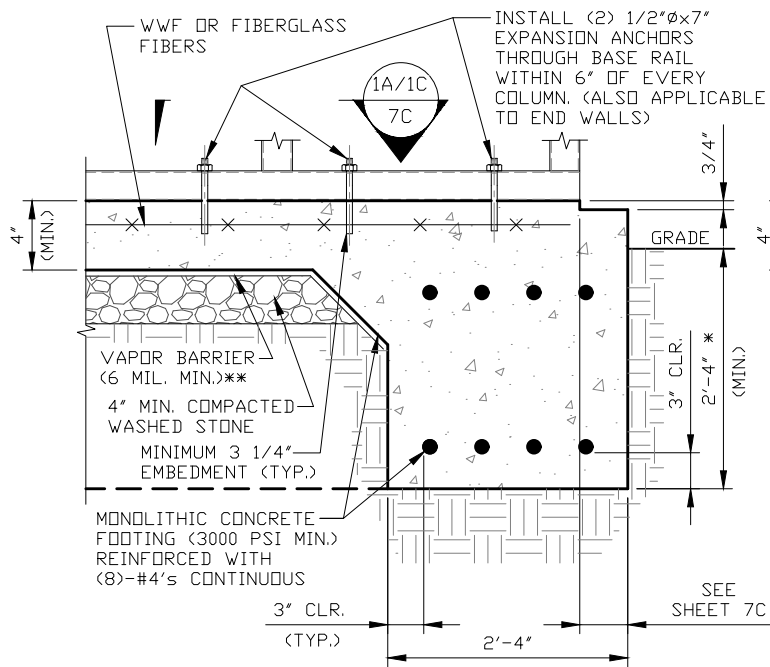
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BASE RAIL ANCHORAGE OPTIONS FOR WIND SPEEDS 125 MPH < TO ≤ 150 MPH



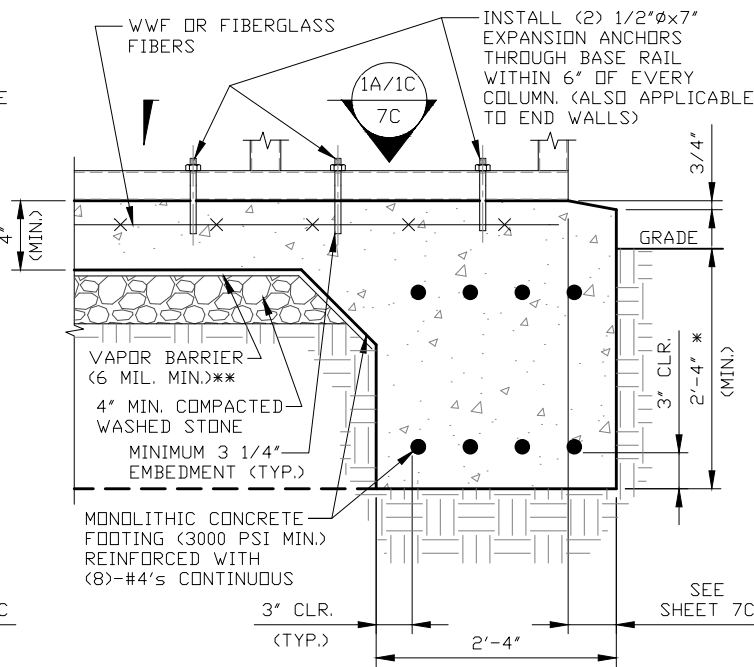
3B

CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

SCALE: NTS

* COORDINATE WITH LOCAL BUILDING CODE
AND/OR BUILDING OFFICIAL REGARDING
REQUIRED FOOTING DEPTH.

** COORDINATE WITH LOCAL BUILDING CODE/
ORDINANCE REGARDING MINIMUM VAPOR BARRIER
THICKNESS.



3C

CONCRETE MONOLITHIC SLAB RAIL ANCHORAGE

SCALE: NTS

* COORDINATE WITH LOCAL BUILDING CODE
AND/OR BUILDING OFFICIAL REGARDING
REQUIRED FOOTING DEPTH.

** COORDINATE WITH LOCAL BUILDING CODE/
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GENERAL NOTES

NOTE: CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM
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CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE
STRENGTH OF 3,000 PSI AT 28 DAYS.

COVER OVER REINFORCING STEEL:

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3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND
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EARTH OR WEATHER, AND 1 1/2" ELSEWHERE.

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MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

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
BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.
3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT
BE FIELD BENT.

Validity Notice

Plans Expiration Date:

10 February 2026

MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

DRAWN BY: JG

CHECKED BY: JS

PROJECT MGR: JRP

CLIENT: CBS

CUSTOM BUILT STRUCTURES, INC.
510 RIVERSIDE DRIVE SUITE 100
MOUNT AIRY, NC 27030
51'-0" - 60'-0" x 23'-0" ENCLOSED BUILDING

DATE: 2-10-25

SHT. 7A

SCALE: NTS

DWG. NO: SK-3

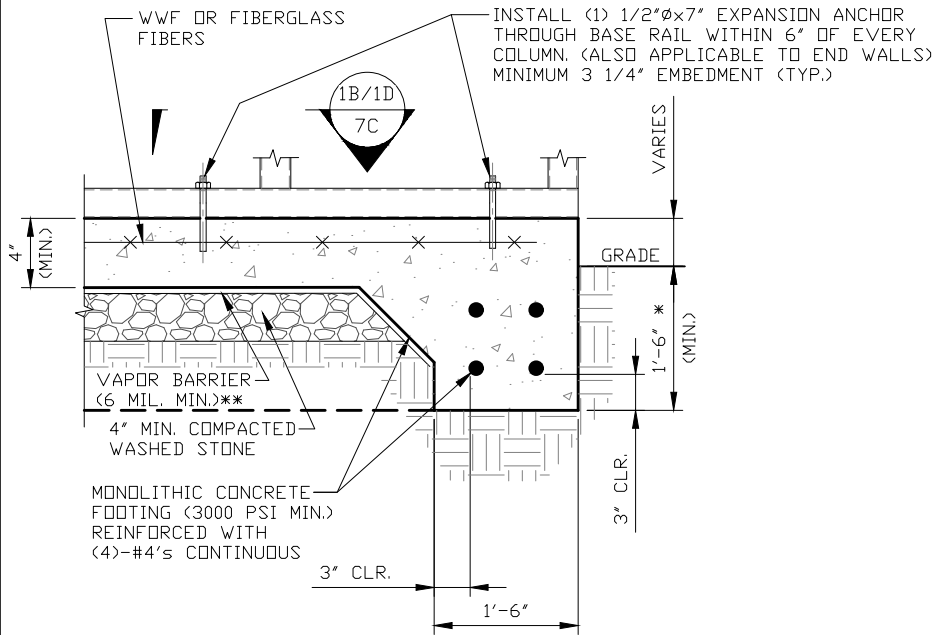
JOB NO:

21352S/23283S/25011S

REV: 2

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BASE RAIL ANCHORAGE FOR WIND SPEEDS ≤ 125 MPH



3D

CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

SCALE: NTS

SEE SHEET 7C FOR MINIMUM ANCHOR EDGE DISTANCE

* COORDINATE WITH LOCAL BUILDING CODE AND/OR BUILDING OFFICIAL REGARDING REQUIRED FOOTING DEPTH.

** COORDINATE WITH LOCAL BUILDING CODE/ORDINANCE REGARDING MINIMUM VAPOR BARRIER THICKNESS.

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.

Validity Notice

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SHT. 7B

SCALE: NTS

DWG. NO: SK-3

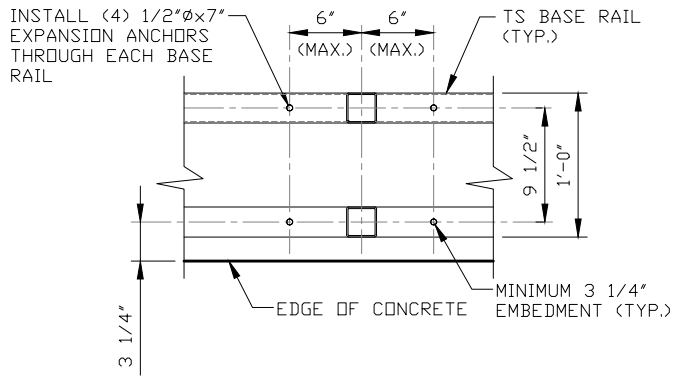
JOB NO:

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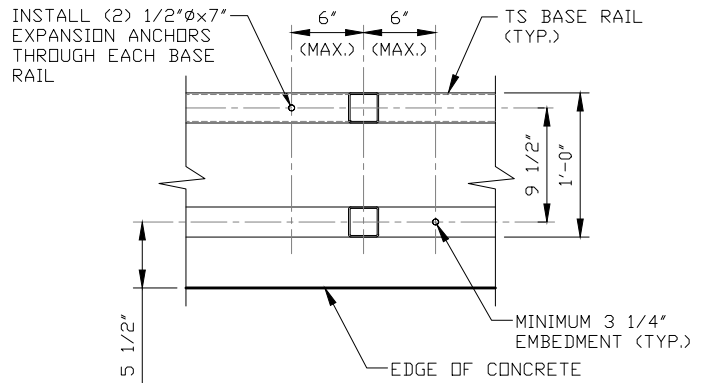
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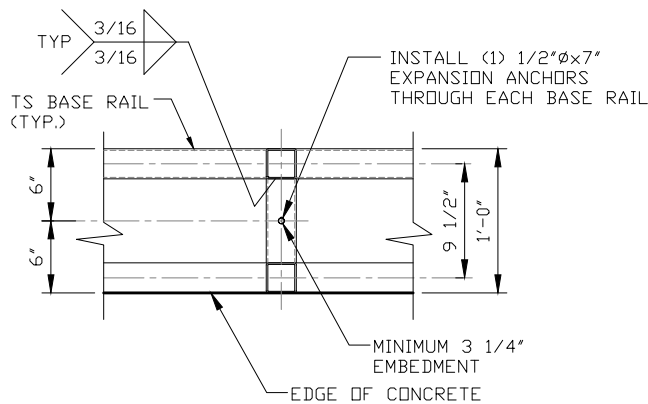
BASE RAIL ANCHORAGE OPTIONS



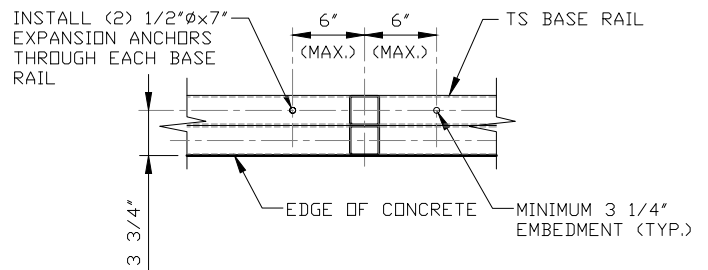
1 SECTION
SCALE: NTS



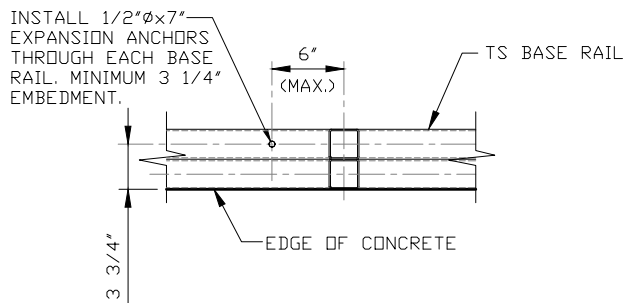
1A SECTION
SCALE: NTS



1B SECTION
SCALE: NTS



1C ENDWALL SECTION
SCALE: NTS



1D ENDWALL SECTION
SCALE: NTS

Validity Notice

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510 RIVERSIDE DRIVE SUITE 100
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DATE: 2-10-25

SHT. 7C

SCALE: NTS

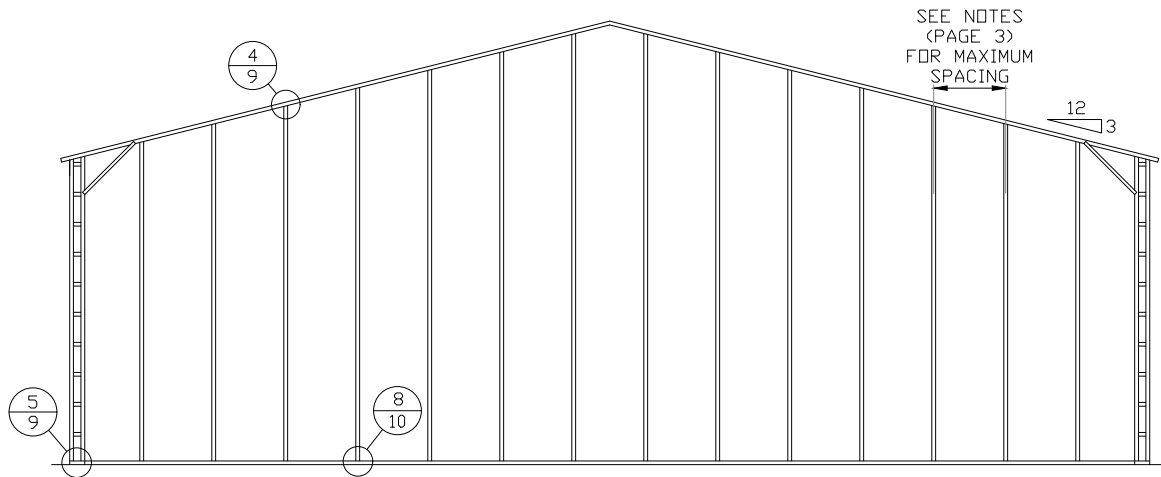
DWG. NO: SK-3

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REV: 2

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TYPICAL END WALL FRAMING SECTION

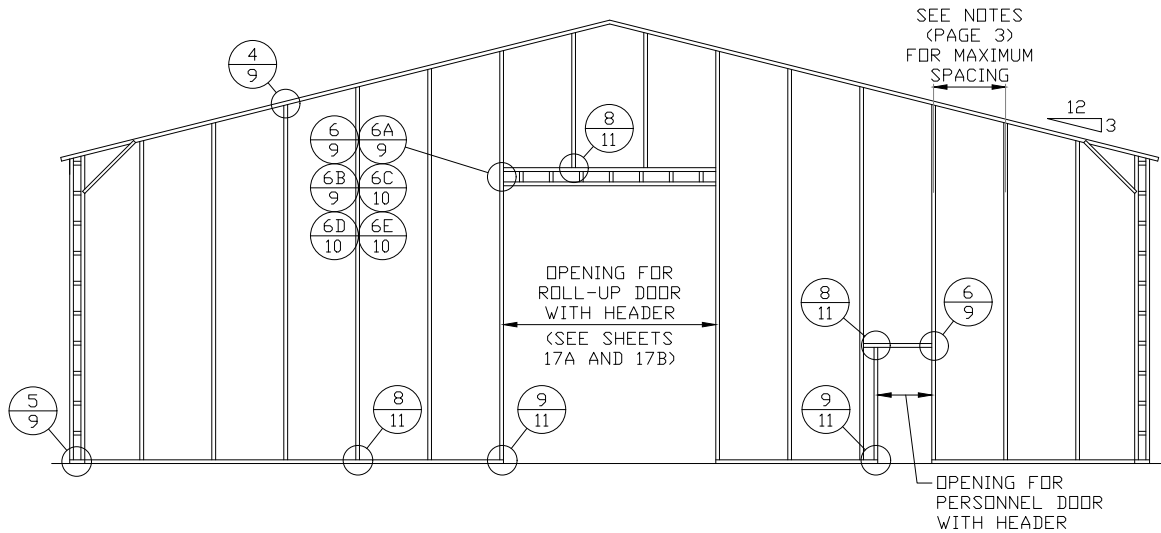


TYPICAL END WALL FRAMING SECTION

SCALE: NTS

NOTE: END WALL COLUMNS SHALL BE THE FOLLOWING SIZES:

- * LACED TUBE (1'-0") 2 1/2"x2 1/2"-14 GA. COLUMNS FOR EAVE HEIGHTS 10'-0" < TO ≤ 20'-0"
- * DOUBLE TUBE (2) 2 1/2"x2 1/2"-14 GA. COLUMNS FOR EAVE HEIGHTS ≤ 10'-0"



TYPICAL END WALL OPENINGS FRAMING SECTION

SCALE: NTS

NOTE: END WALL COLUMNS SHALL BE THE FOLLOWING SIZES:

- * LACED TUBE (1'-0") 2 1/2"x2 1/2"-14 GA. COLUMNS FOR EAVE HEIGHTS 10'-0" < TO ≤ 20'-0"
- * DOUBLE TUBE (2) 2 1/2"x2 1/2"-14 GA. COLUMNS FOR EAVE HEIGHTS ≤ 10'-0"

Validity Notice

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10 February 2026

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CLIENT: CBS

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510 RIVERSIDE DRIVE SUITE 100
MOUNT AIRY, NC 27030
51'-0" - 60'-0"x23'-0" ENCLOSED BUILDING**

DATE: 2-10-25

SHT. 8

SCALE: NTS

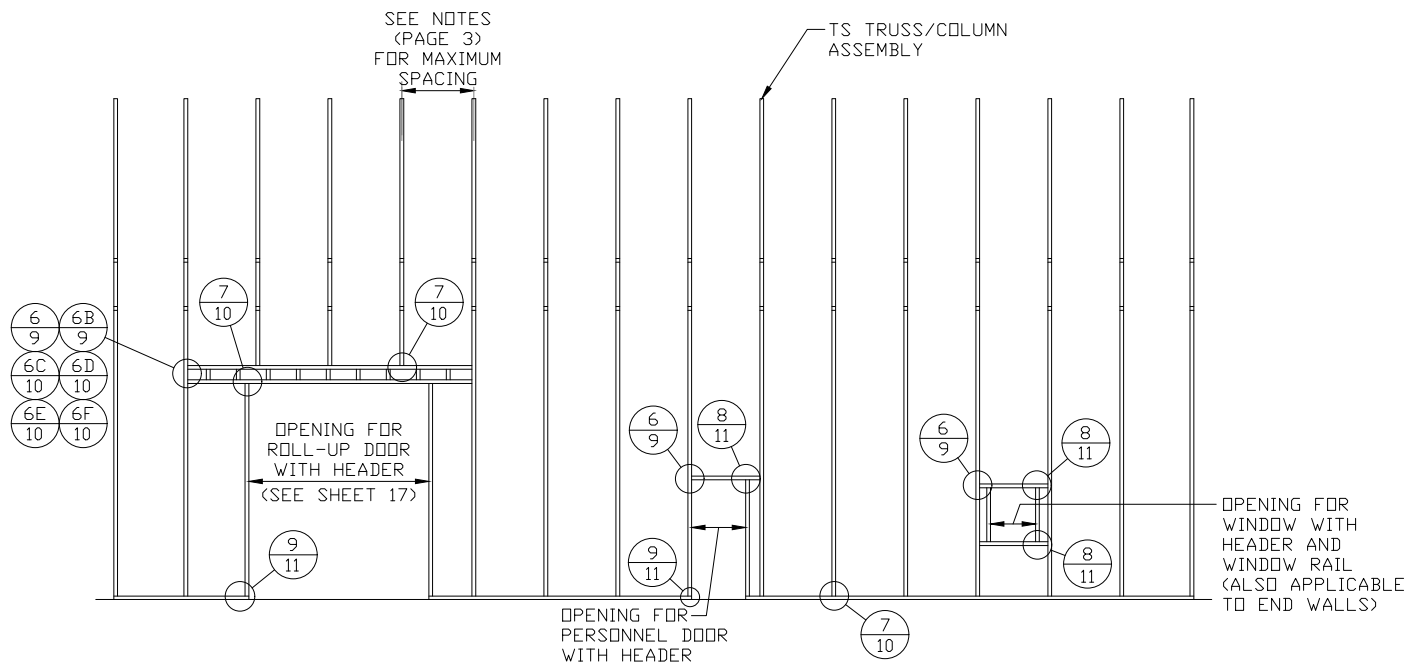
DWG. NO: SK-3

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TYPICAL SIDE WALL OPENING FRAMING SECTION



TYPICAL SIDE WALL OPENINGS FRAMING SECTION
SCALE: NTS

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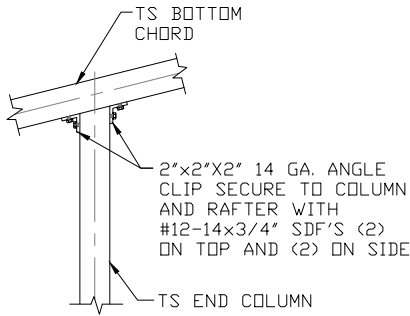
DRAWN BY: JG
CHECKED BY: JS

PROJECT MGR: JRP
CLIENT: CBS

CUSTOM BUILT STRUCTURES, INC.
510 RIVERSIDE DRIVE SUITE 100
MOUNT AIRY, NC 27030
51'-0" - 60'-0"x23'-0" ENCLOSED BUILDING

DATE: 2-10-25	SCALE: NTS	JOB NO: 21352S/23283S/25011S
SHT. 8A	DWG. NO: SK-3	REV: 2

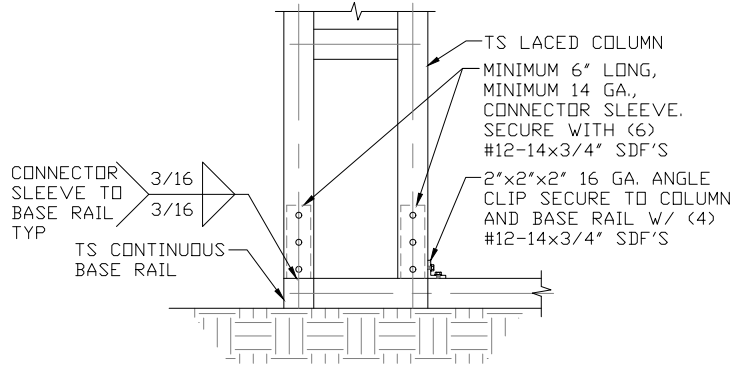
CONNECTION DETAILS



4

INTERMEDIATE CHORD TO TOP CHORD CONNECTION DETAIL

SCALE: NTS

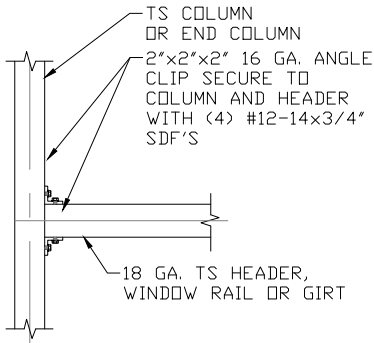


5

END COLUMN/BASE RAIL CONNECTION DETAIL

SCALE: NTS

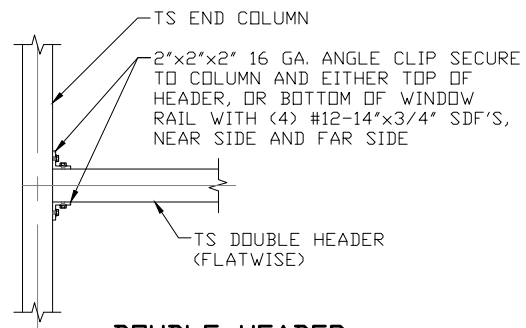
NOTE: INSERT NOT SHOWN FOR CLARITY.



6

COLUMN OR WINDOW RAIL/WALL GIRT TO COLUMN CONNECTION DETAIL

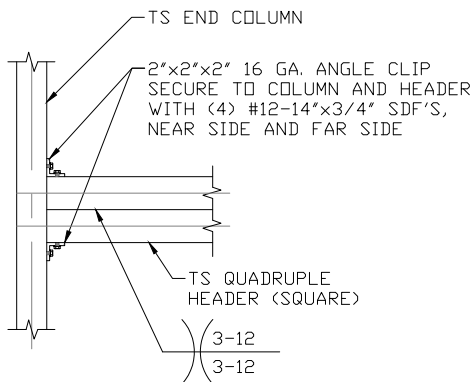
SCALE: NTS



6A

DOUBLE HEADER (FLATWISE) TO COLUMN CONNECTION DETAIL

SCALE: NTS



6B

QUADRUPLE HEADER (SQUARE) TO COLUMN CONNECTION DETAIL

SCALE: NTS

Validity Notice

Plans Expiration Date:

10 February 2026

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MOUNT AIRY, NC 27030
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DATE: 2-10-25

SHT. 9

SCALE: NTS

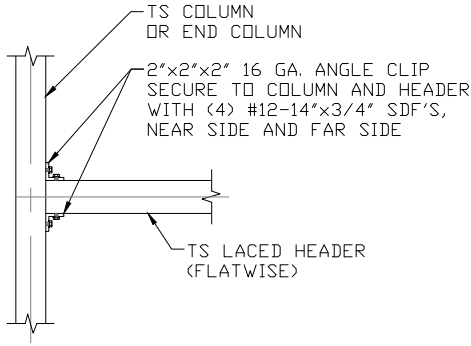
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REV: 2

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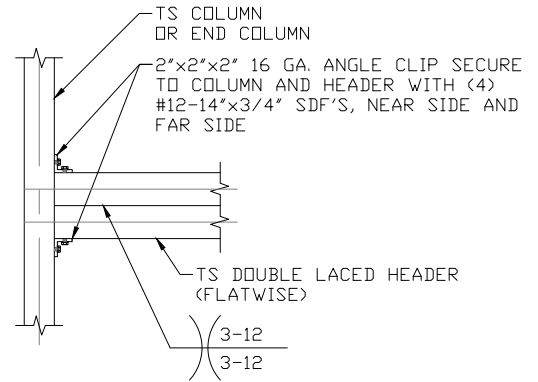
CONNECTION DETAILS



6C

LACED HEADER (FLATWISE) TO COLUMN CONNECTION DETAIL

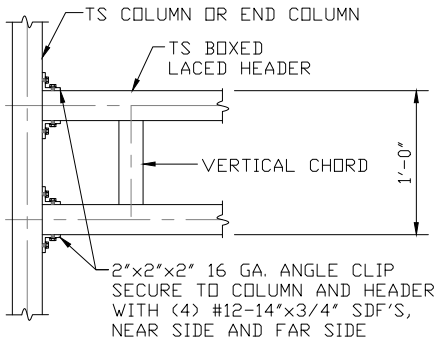
SCALE: NTS



6D

DOUBLE LACED HEADER (FLATWISE) TO COLUMN CONNECTION DETAIL

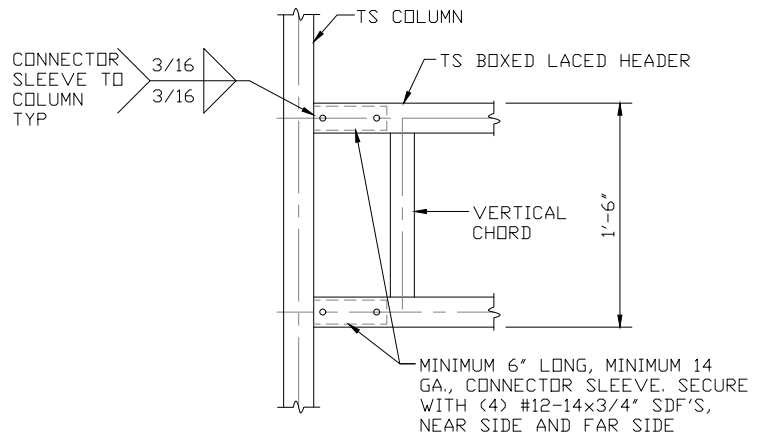
SCALE: NTS



6E

BOXED LACED HEADER TO COLUMN CONNECTION DETAIL

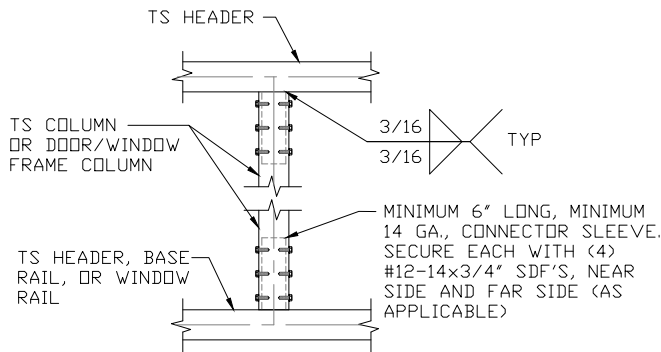
SCALE: NTS



6F

BOXED LACED HEADER TO COLUMN CONNECTION DETAIL

SCALE: NTS



7

COLUMN TO HEADER OR BASE RAIL CONNECTION DETAIL

SCALE: NTS

Validity Notice

Plans Expiration Date:

10 February 2026

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DATE: 2-10-25

SHT. 10

SCALE: NTS

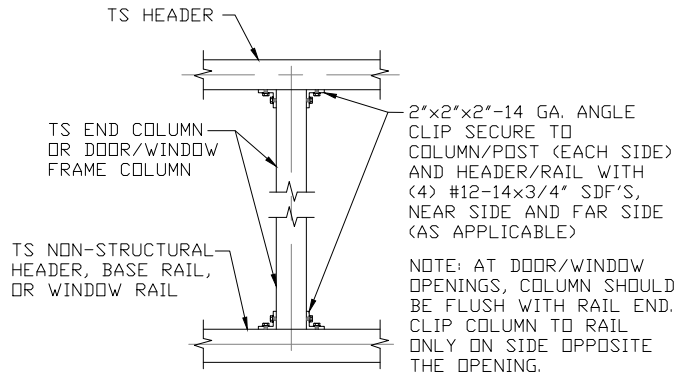
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JOB NO:
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REV: 2

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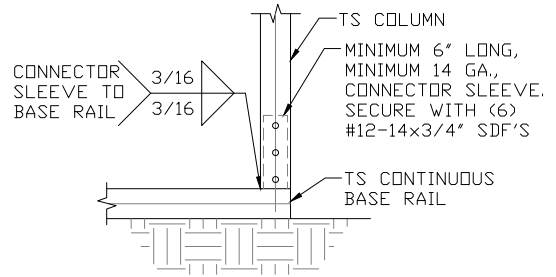
CONNECTION DETAILS



8

HEADER OR WINDOW RAIL TO COLUMN CONNECTION DETAIL

SCALE: NTS

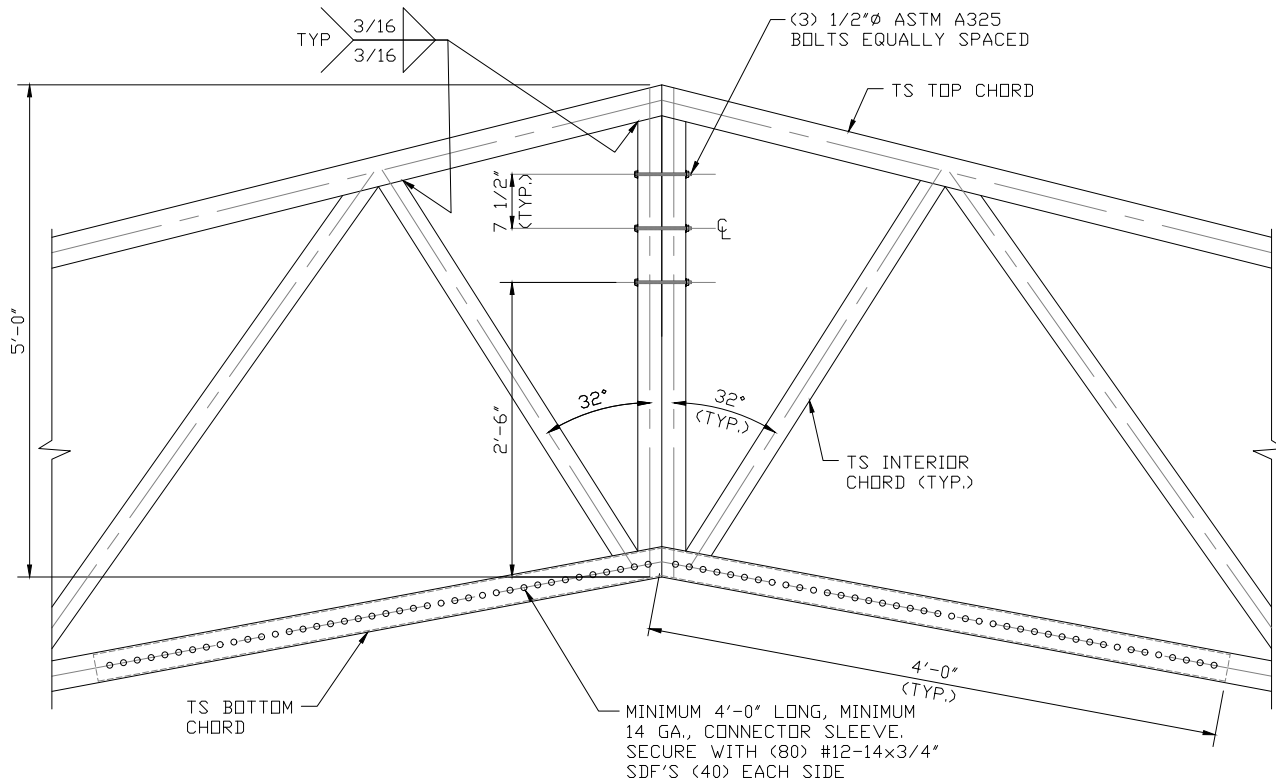


9

COLUMN/BASE RAIL CONNECTION DETAIL

SCALE: NTS

NOTE: INSERT NOT SHOWN FOR
CLARITY.



10

SPLICE CONNECTION DETAIL

SCALE: NTS

Validity Notice

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DATE: 2-10-25

SHT. 11

SCALE: NTS

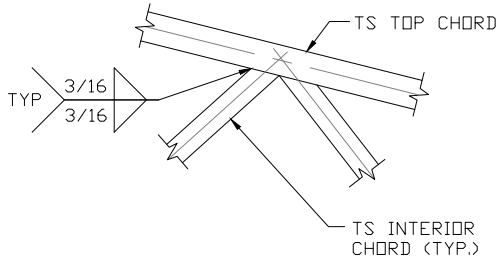
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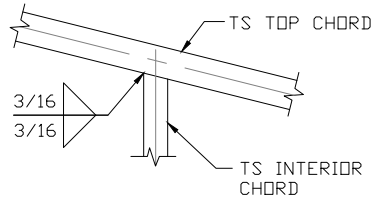
CONNECTION DETAILS



**INTERIOR CHORD
TO TOP CHORD
CONNECTION DETAIL**

11

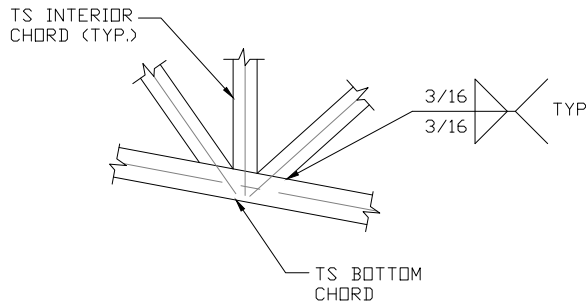
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**INTERIOR CHORD
TO TOP CHORD
CONNECTION DETAIL**

11A

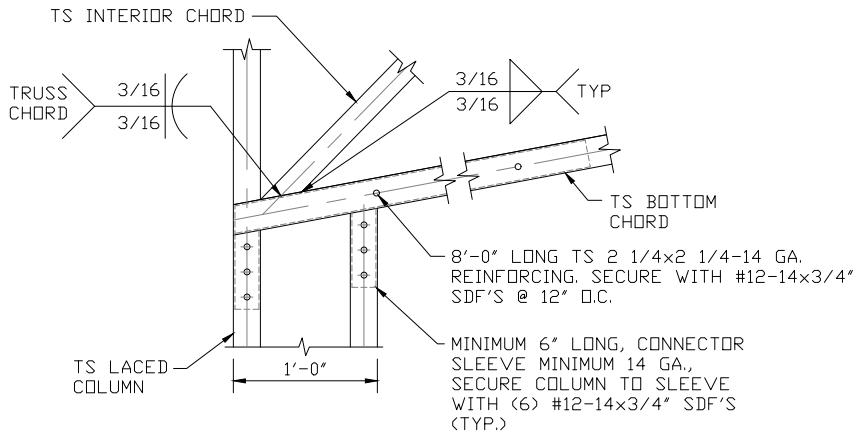
SCALE: NTS



**INTERIOR CHORD
TO BOTTOM CHORD
CONNECTION DETAIL**

12

SCALE: NTS



**INTERIOR CHORD TO
BOTTOM CHORD
CONNECTION DETAIL**

13

SCALE: NTS

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510 RIVERSIDE DRIVE SUITE 100
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51'-0" - 60'-0"x23'-0" ENCLOSED BUILDING**

DATE: 2-10-25

SHT. 12

SCALE: NTS

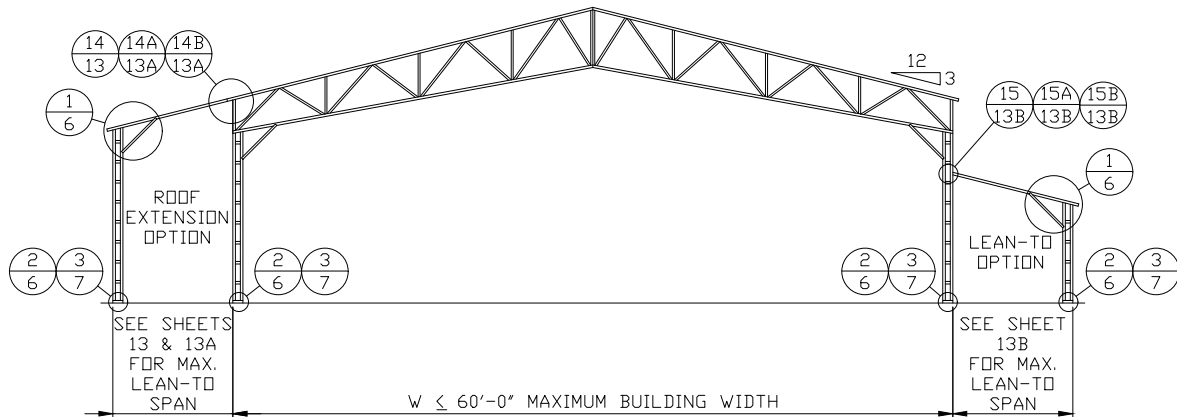
DWG. NO: SK-3

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LEAN-TO OPTIONS

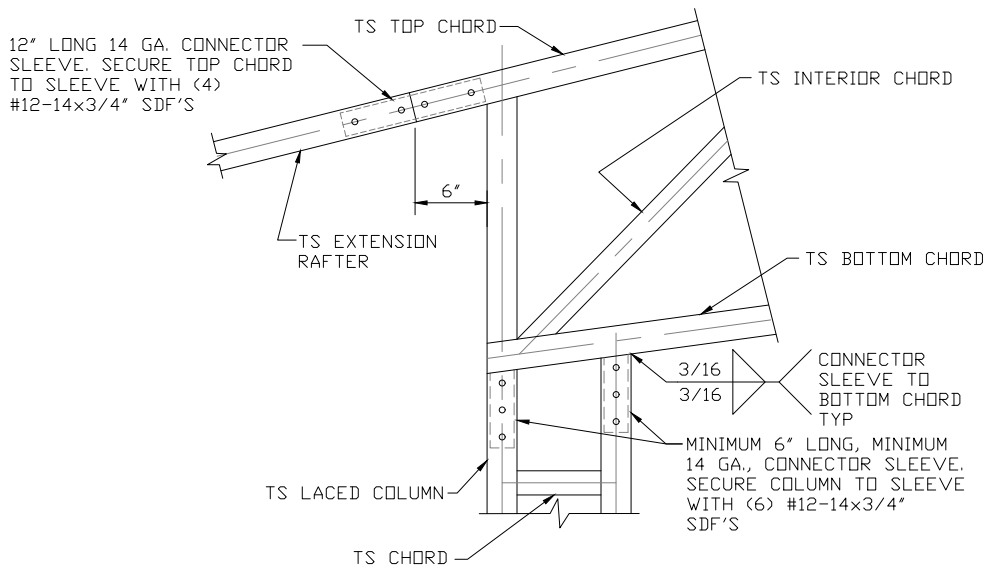


TYPICAL LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

SCALE: NTS

NOTE: LEAN-TO COLUMNS SHALL MATCH MAIN BUILDING COLUMNS.

NOTE: LEAN-TO COLUMN SPACING SHALL MATCH MAIN BUILDING.



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

SCALE: NTS

14

Validity Notice

Plans Expiration Date:

10 February 2026

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SHT. 13

SCALE: NTS

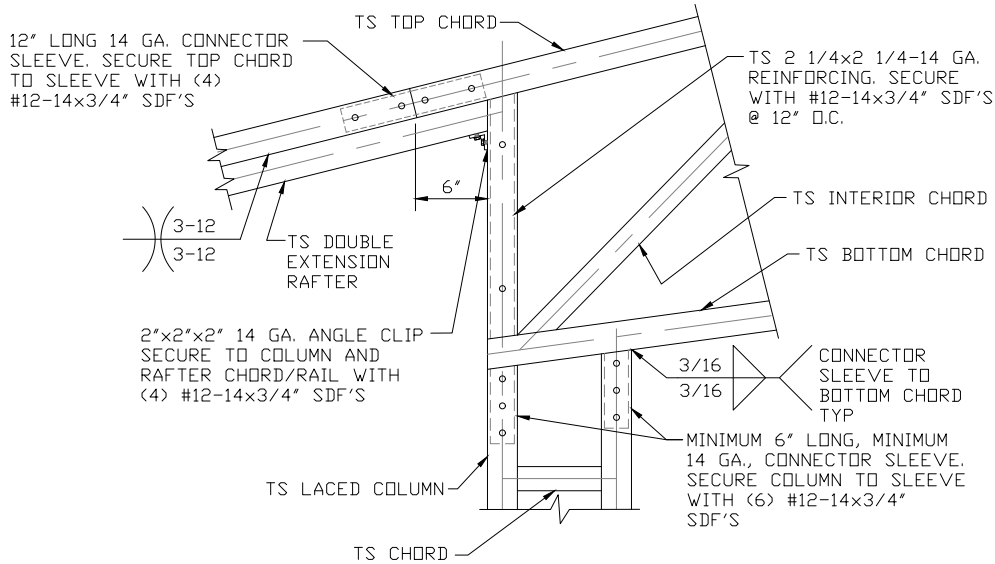
DWG. NO: SK-3

JOB NO:
21352S/23283S/25011S

REV: 2

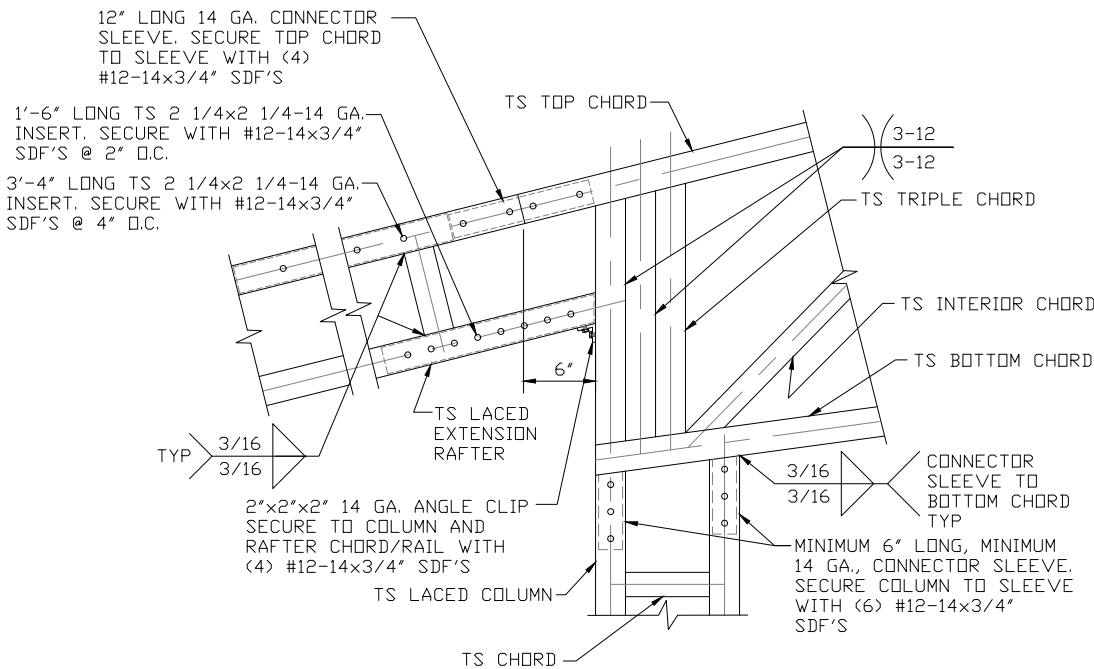
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LEAN-TO OPTIONS



14A SIDE EXTENSION RAFTER/CORNER
COLUMN DETAIL FOR RAFTER SPANS
12'-0" < TO ≤ 18'-0"

SCALE: NTS



14B SIDE EXTENSION RAFTER/CORNER
COLUMN DETAIL FOR RAFTER SPANS
18'-0" < TO ≤ 25'-0"

SCALE: NTS

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SHT. 13A

SCALE: NTS

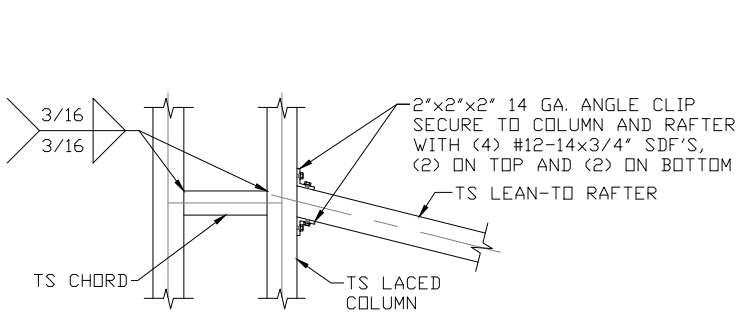
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**JOB NO:
21352S/23283S/25011S**

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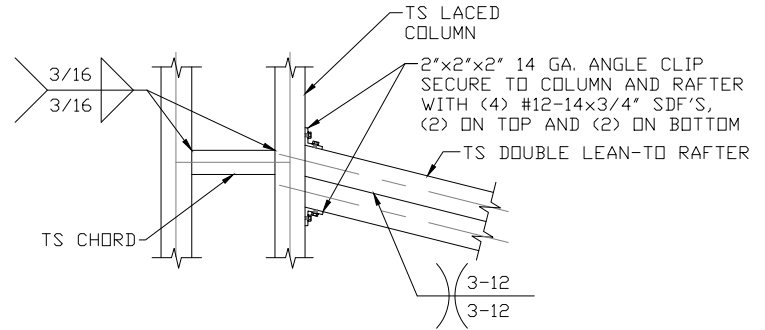
LEAN-TO OPTIONS



**LEAN-TO RAFTER TO RAFTER
COLUMN CONNECTION DETAIL
FOR RAFTER SPAN $\leq 12'-0''$**

15

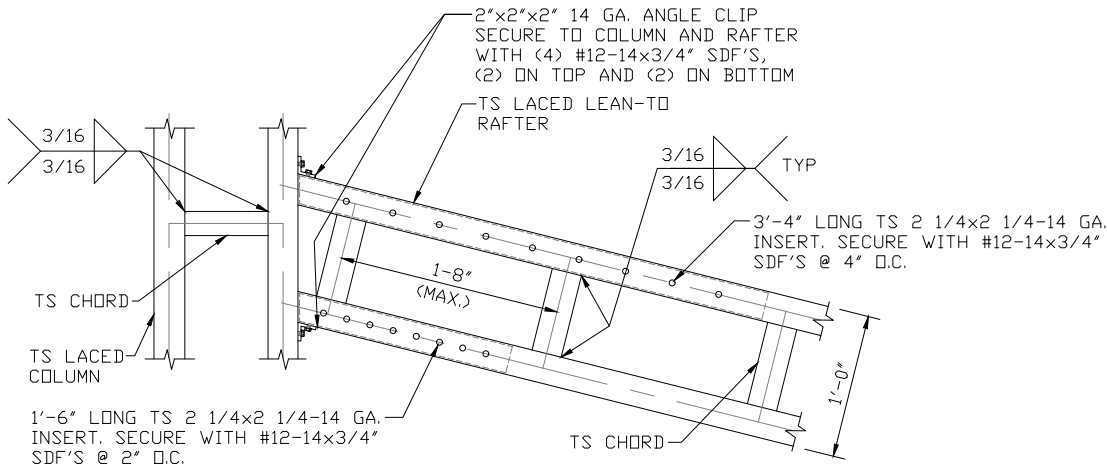
SCALE: NTS



**LEAN-TO RAFTER TO RAFTER
COLUMN CONNECTION DETAIL
FOR RAFTER SPAN $12'-0'' < \text{TO} \leq 18'-0''$**

15A

SCALE: NTS



**LEAN-TO RAFTER TO RAFTER
COLUMN CONNECTION DETAIL
FOR RAFTER SPAN $18'-0'' < \text{TO} \leq 25'-0''$**

15B

SCALE: NTS

Validity Notice

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SHT. 13B

SCALE: NTS

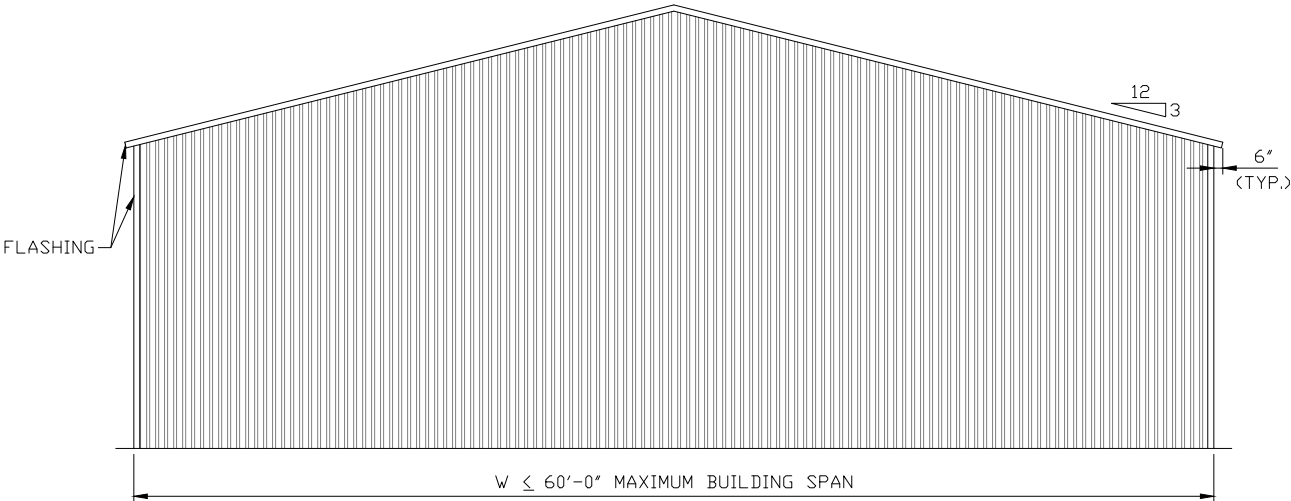
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**JOB NO:
21352S/23283S/25011S**

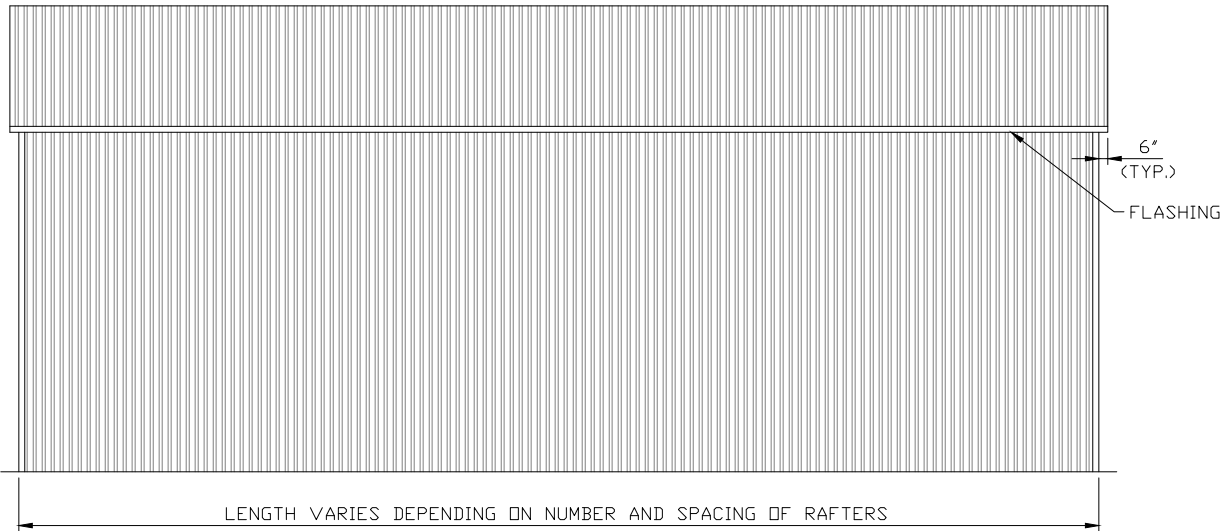
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ROOF/SIDING OPTION



TYPICAL END ELEVATION VERTICAL ROOF/SIDING
SCALE: NTS



TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING
SCALE: NTS
NOTE: HORIZONTAL ROOF PANELS ARE PROHIBITED.

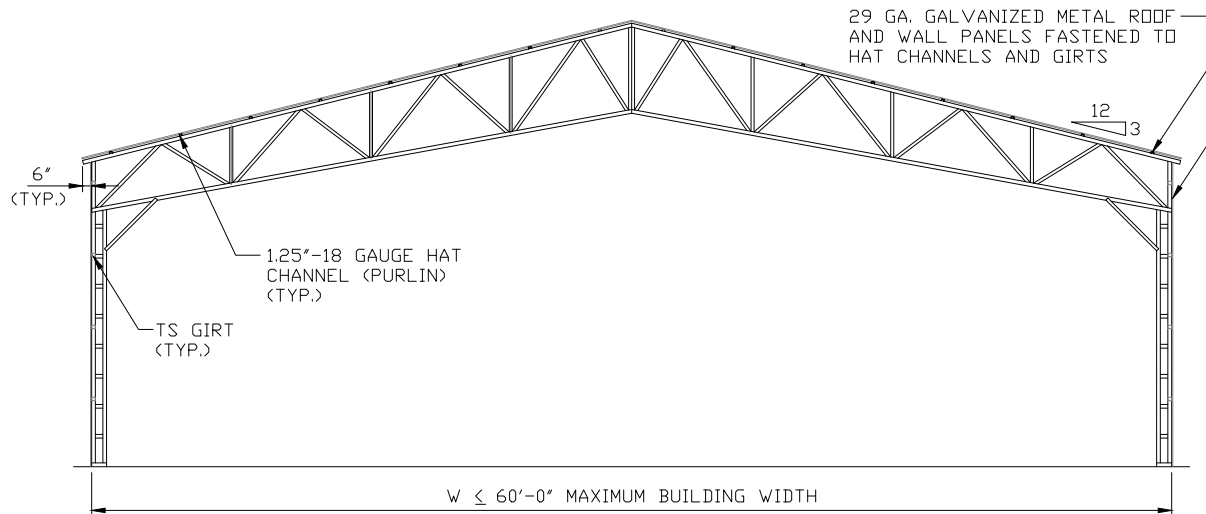
Validity Notice

Plans Expiration Date:

10 February 2026

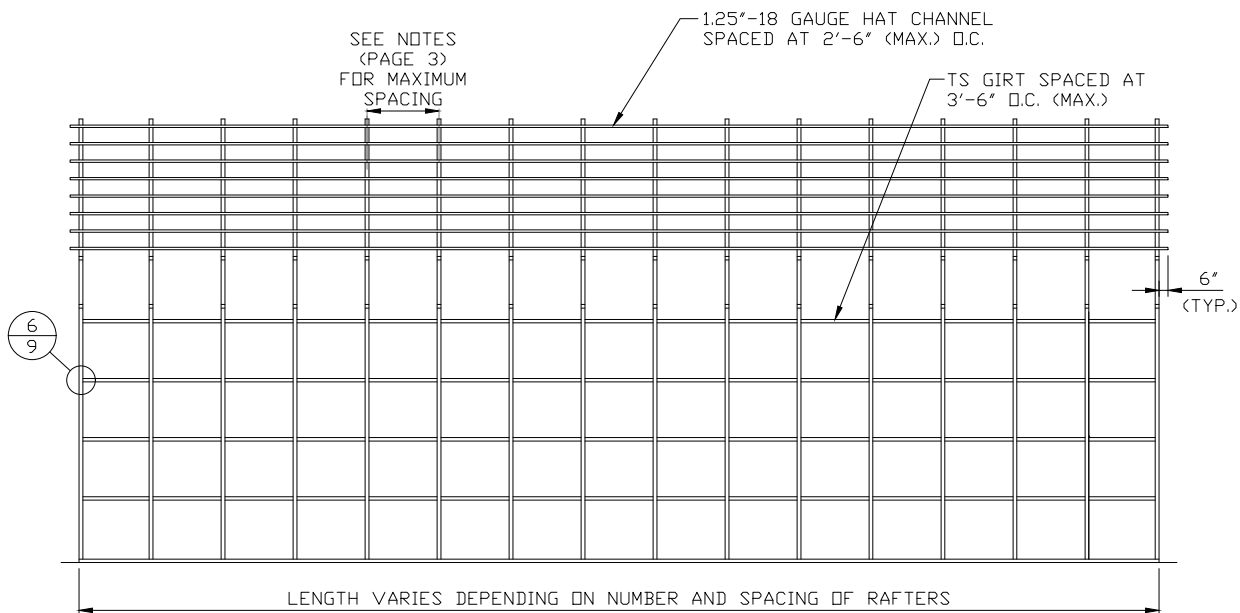
MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: JG		CUSTOM BUILT STRUCTURES, INC. 510 RIVERSIDE DRIVE SUITE 100 MOUNT AIRY, NC 27030 51'-0" - 60'-0"x23'-0" ENCLOSED BUILDING		
	CHECKED BY: JS				
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	CLIENT: CBS	SHT. 14	DWG. NO: SK-3		REV: 2

ROOF/SIDING OPTION



TYPICAL INTERIOR SECTION VERTICAL ROOF/SIDING OPTION

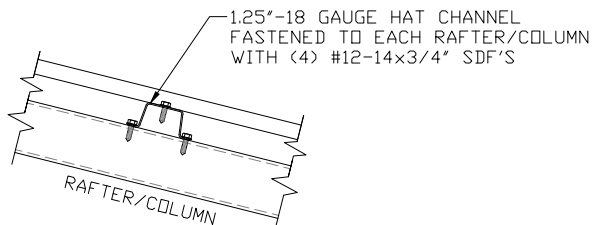
SCALE: NTS



TYPICAL SIDE FRAMING SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS

NOTE: 1.25"-18 GAUGE HAT CHANNELS CAN BE USED AS AN OPTION IN PLACE OF TUBE STEEL (TS) WALL GIRTS, SPACED @ 3'-6" O.C. (MAX.).



ROOF PANEL ATTACHMENT

SCALE: NTS

(ALTERNATE FOR VERTICAL ROOF PANELS)

Validity Notice

Plans Expiration Date:

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

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PROJECT MGR: JRP

CLIENT: CBS

CUSTOM BUILT STRUCTURES, INC.
510 RIVERSIDE DRIVE SUITE 100
MOUNT AIRY, NC 27030
51'-0" - 60'-0" x 23'-0" ENCLOSED BUILDING

DATE: 2-10-25

SHT. 15

SCALE: NTS

DWG. NO: SK-3

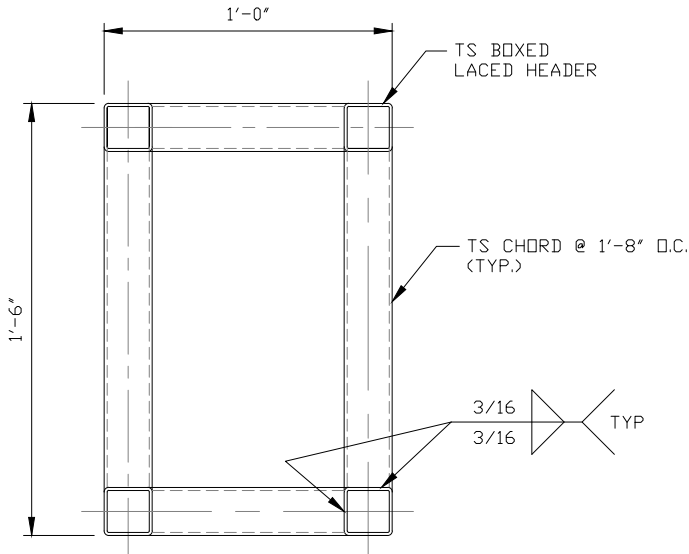
**JOB NO:
21352S/23283S/25011S**

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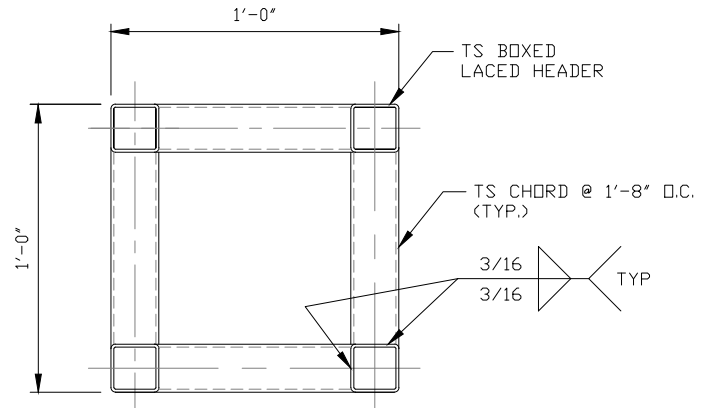
SIDE WALL HEADER OPTIONS FOR TS LACED COLUMNS

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



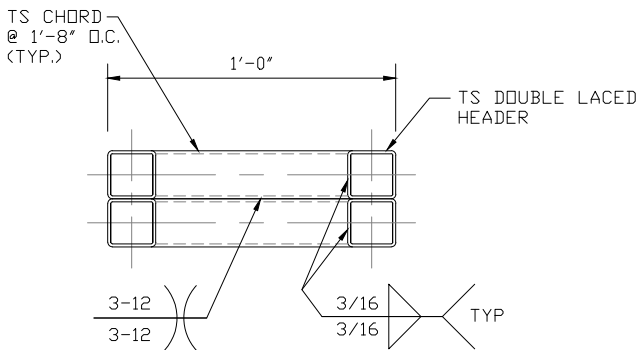
**HEADER DETAIL FOR
16'-0" < LENGTH ≤ 20'-0"**

SCALE: NTS



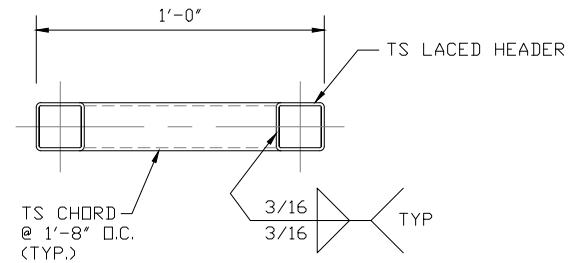
**HEADER DETAIL FOR
9'-0" < LENGTH ≤ 16'-0"**

SCALE: NTS



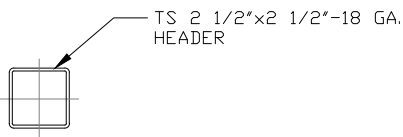
**HEADER DETAIL FOR
5'-0" < LENGTH ≤ 9'-0"**

SCALE: NTS



**HEADER DETAIL FOR
LENGTH ≤ 5'-0"**

SCALE: NTS



**HEADER DETAIL FOR
LENGTH ≤ 4'-0"**

SCALE: NTS

NOTE: ONLY ALLOWED BETWEEN COLUMNS

Validity Notice

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ENGINEERING AND CONSULTING, INC.**

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**CUSTOM BUILT STRUCTURES, INC.
510 RIVERSIDE DRIVE SUITE 100
MOUNT AIRY, NC 27030
51'-0" - 60'-0" x 23'-0" ENCLOSED BUILDING**

DATE: 2-10-25

SHT. 16

SCALE: NTS

DWG. NO: SK-3

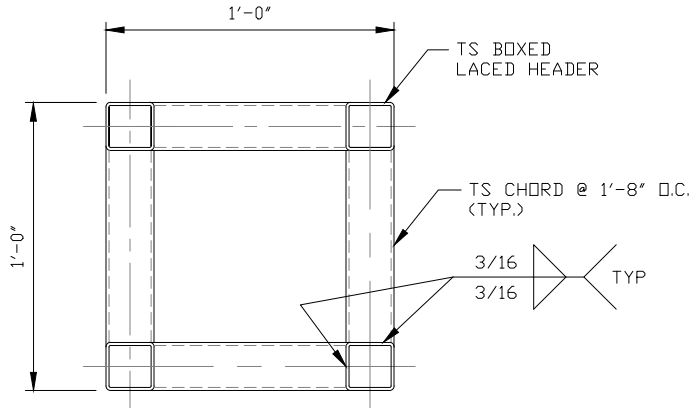
**JOB NO:
21352S/23283S/25011S**

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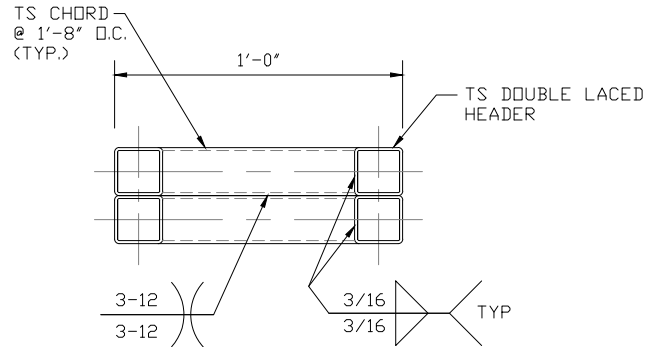
END WALL HEADER OPTIONS FOR TS LACED COLUMNS

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



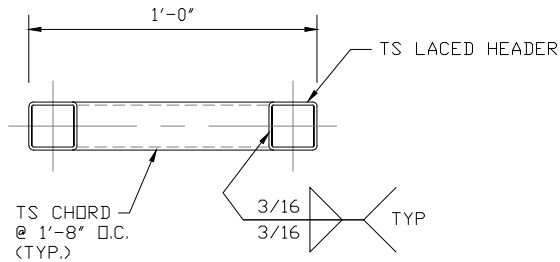
**HEADER DETAIL FOR
18'-0" < LENGTH ≤ 20'-0"**

SCALE: NTS



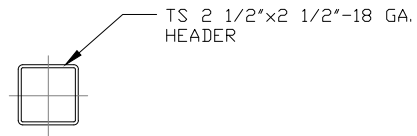
**HEADER DETAIL FOR
9'-0" < LENGTH ≤ 18'-0"**

SCALE: NTS



**HEADER DETAIL FOR
LENGTH ≤ 9'-0"**

SCALE: NTS



**HEADER DETAIL FOR
LENGTH ≤ 4'-0"**

SCALE: NTS

NOTE: ONLY ALLOWED BETWEEN COLUMNS

Validity Notice

Plans Expiration Date:

10 February 2026

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ENGINEERING AND CONSULTING, INC.**

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510 RIVERSIDE DRIVE SUITE 100
MOUNT AIRY, NC 27030
51'-0" - 60'-0" x 23'-0" ENCLOSED BUILDING**

DATE: 2-10-25

SHT. 16A

SCALE: NTS

DWG. NO: SK-3

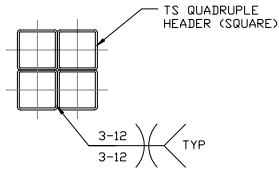
**JOB NO:
21352S/23283S/25011S**

REV: 2

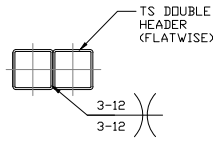
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END WALL HEADER OPTIONS FOR TS DOUBLE COLUMNS

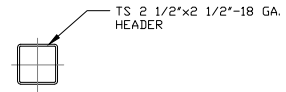
NOTE: HEADER DESIGN DOES NOT TAKE IN TO ACCOUNT ADDITIONAL ROOF LOADING FROM ATTACHED LEAN-TO STRUCTURES.



HEADER DETAIL FOR
9'-0" < LENGTH ≤ 14'-0"
SCALE: NTS



HEADER DETAIL FOR
LENGTH ≤ 9'-0"
SCALE: NTS



HEADER DETAIL FOR
LENGTH ≤ 4'-0"
SCALE: NTS
NOTE: ONLY ALLOWED BETWEEN COLUMNS

Validity Notice

Plans Expiration Date:

10 February 2026

MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

DRAWN BY: JG

CHECKED BY: JS

PROJECT MGR: JRP

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CUSTOM BUILT STRUCTURES, INC.
510 RIVERSIDE DRIVE SUITE 100
MOUNT AIRY, NC 27030
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DATE: 2-10-25

SHT. 16B

SCALE: NTS

DWG. NO: SK-3

JOB NO:
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