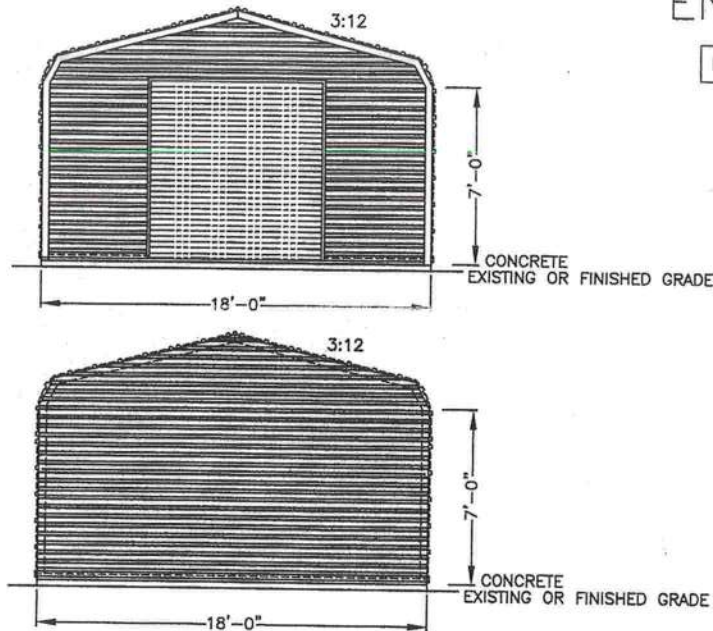


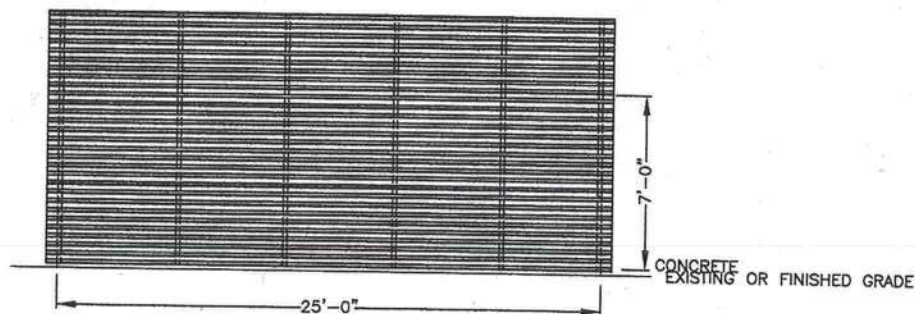
INSTALLATION PLANS & DETAILS
FRAMING & FASTENER SPECIFICATIONS
METAL CARPORT STRUCTURES

REGULAR RAFTER
ENCLOSED BUILDING

FOR CONSTRUCTION IN THE STATE OF FLORIDA



1 TYPICAL ENDWALL FINISH ELEVATIONS
S1.0 SCALE: N.T.S.



2 TYPICAL SIDEWALL FINISH ELEVATIONS
S1.0 SCALE: N.T.S.

GENERAL NOTES:

1. WIND EXPOSURE CATEGORY C
2. BASIC WIND SPEED 3-SECOND GUST OF 100 TO 130 MPH:
MAXIMUM RAFTER/POST AND END POST SPACING = 5.0 FEET
3. BASIC WIND SPEED 3-SECOND GUST OF 130 MPH:
MAXIMUM RAFTER/POST SPACING AND END POST SPACING = 4.0 FEET
4. AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR PURLINS,
AND POSTS (INTERIOR OR END) = 6 INCHES
5. SPECIFICATIONS APPLICABLE TO 29 GAUGE (100 TO 130 MPH) METAL PANELS
(WITH F_y=60KSI, MAIN RIB HEIGHT OF 7/8", GALVANIZED OR PAINTED STEEL)
FASTENED DIRECTLY TO 12 GA. STEEL TUBE RAFTER FRAMES/HAT CHANNELS
6. FASTENERS CONSIST OF 1/4" - 14 X 3/4" SELF-DRILLING SCREWS
WITH CONTROL SEAL WASHERS
7. SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 20 FEET OR LESS
AND ROOF SLOPES OF 14' (3:12 PITCH). SPACING REQUIREMENTS FOR OTHER
ROOF HEIGHTS AND OR SLOPES MAY VARY.
8. GROUND ANCHOR REQUIREMENTS ARE ONE AT EACH CORNER AND EVERY OTHER
INTERIOR RAFTER POST LOCATION, AT A MAXIMUM OF 10' O.C., AND BOTH SIDES
OF OPENINGS WHERE BASE RAIL IS ABSENT.
9. GROUND ANCHORS ARE NOT REQUIRED WITH CONCRETE SLAB CONSTRUCTION.

DESIGN CRITERIA:

CODE: FBC 2010
GROUP USE: U (CARPORTS & BARNs)
ULTIMATE DESIGN WIND SPEED: 115 MPH
ROOF DEAD LOAD: 2 PSF
ROOF LIVE LOAD: 20 PSF

LOAD COMBINATIONS:
DL+LL, 0.6DL+WL
DL+0.75LL+0.75WL

NOMINAL DESIGN WIND SPEED: 89 MPH

COMPONENTS & CLADDING: - 24.05 PSF
PRESSURE WALLS + 21.87 PSF

COMPONENTS & CLADDING: - 19.68 PSF
PRESSURE ROOF + 10.93 PSF

COMPONENTS & CLADDING: - 48.11 PSF
PRESSURE ROOF OVERHANG

CERTIFICATION:

THE CALCULATIONS/SPECIFICATIONS CONTAINED IN THESE DRAWINGS
HAVE BEEN PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF
SECTION 1609 OF THE 2010 FLORIDA BUILDING CODE.

Curtis E. Keen 9/13/12
CURTIS E. KEEN, PE #23836, CA #3761

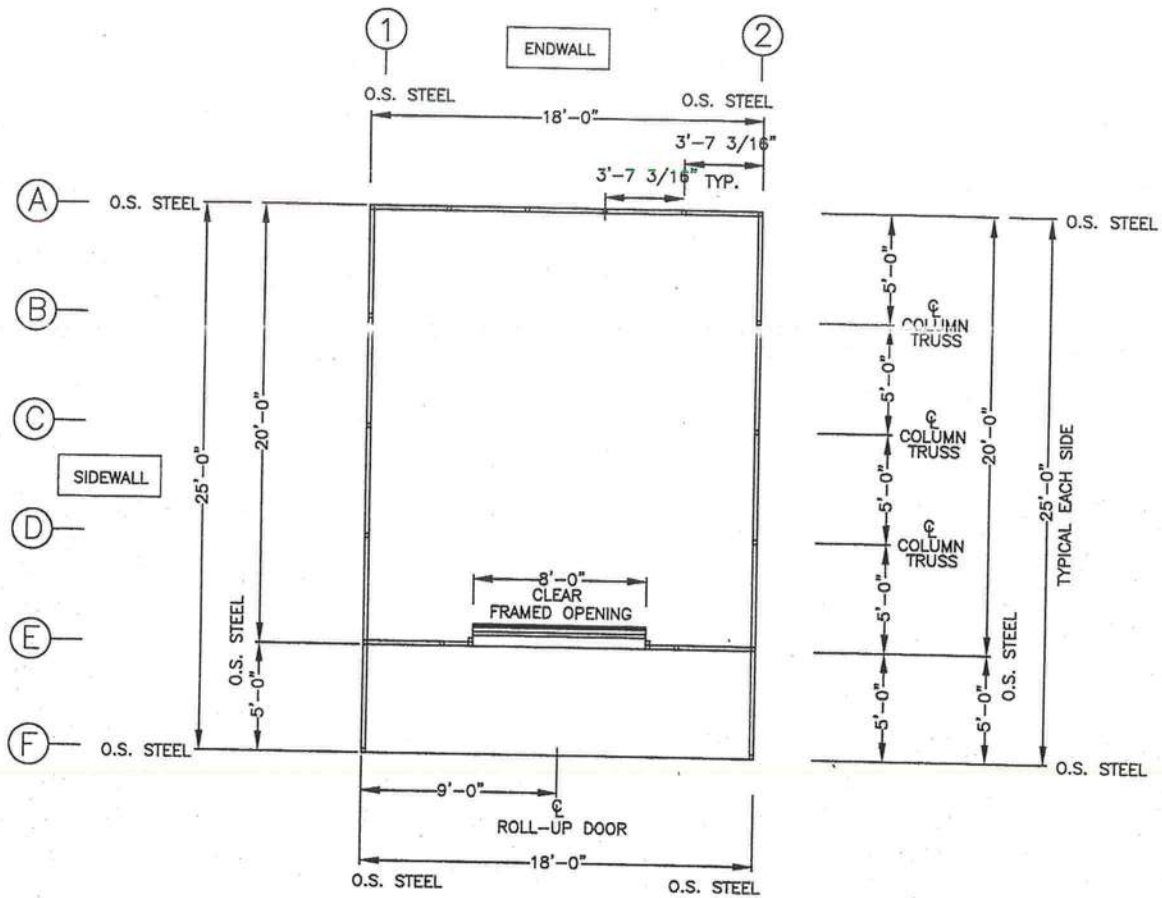
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MASON CITY COMMUNITY CENTER
LAKE CITY, FL 32055
BENETT BUILDING SYSTEMS

Curtis E. Keen, PE #23836
Certification of Authorization #3761
DATE:

SHEET	PROJ. NAME	DATE
S1.0	211535-MARON	08/08/12
	REVISED:	



1 DIMENSIONED SPECIFIC FLOOR PLAN VIEW
S2.0 SCALE: 1/8" = 1'-0"

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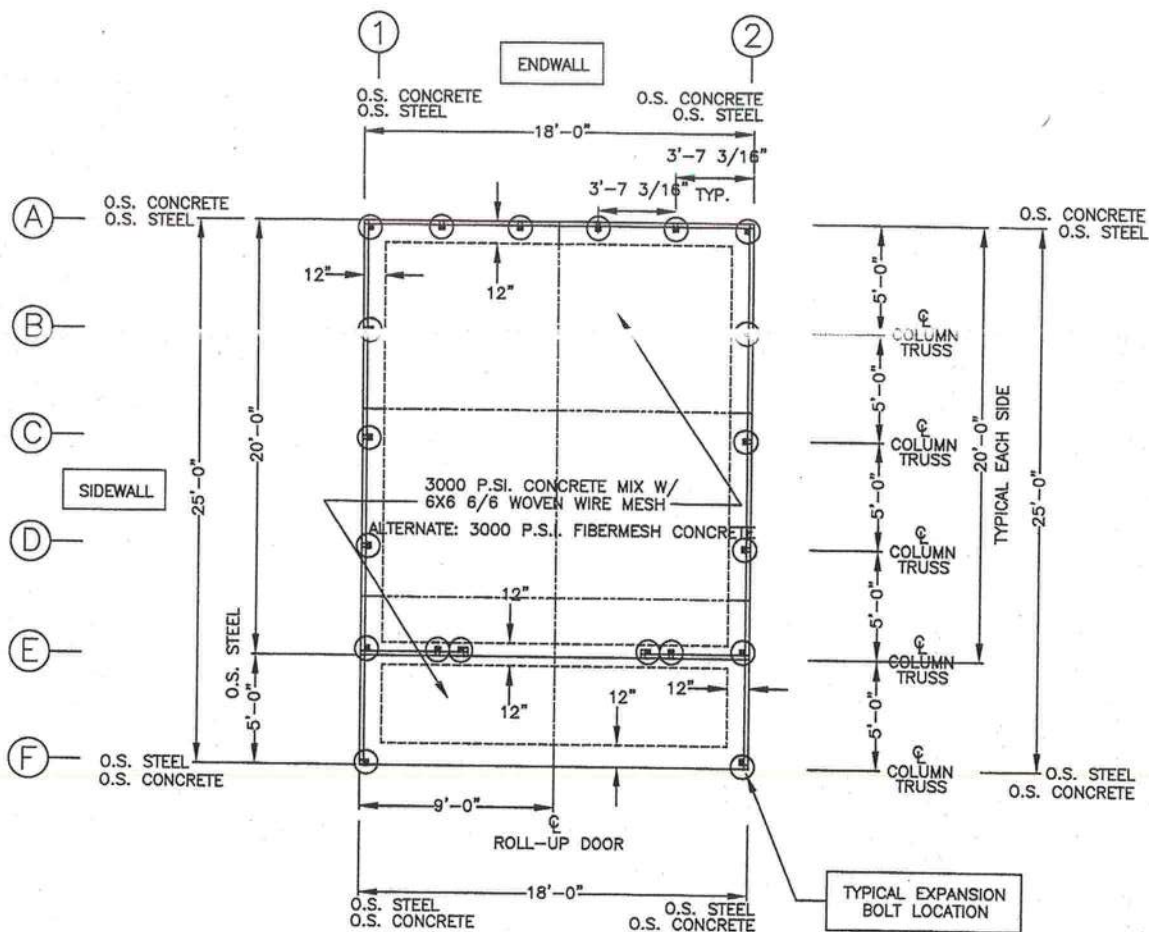
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1 DIMENSIONED SPECIFIC FOUNDATION PLAN VIEW
S3.0 SCALE: 1/8" = 1'-0"

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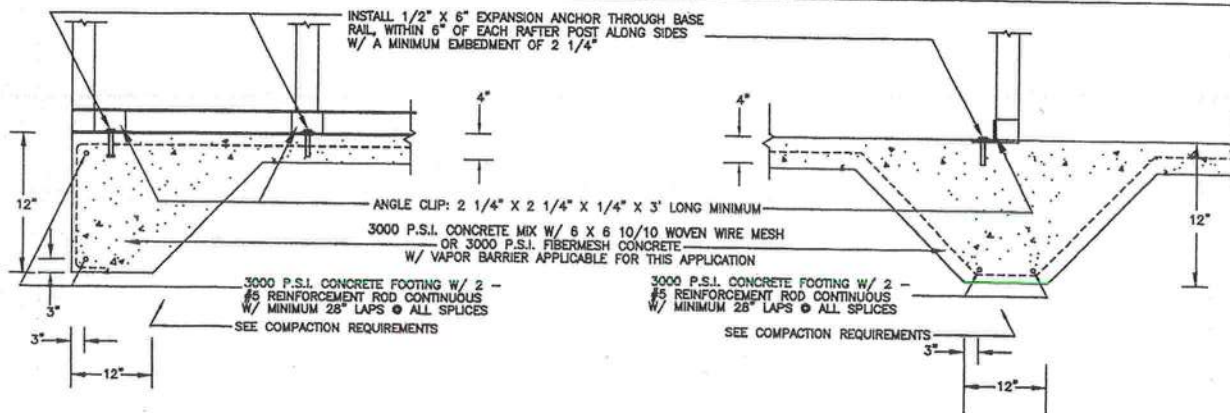
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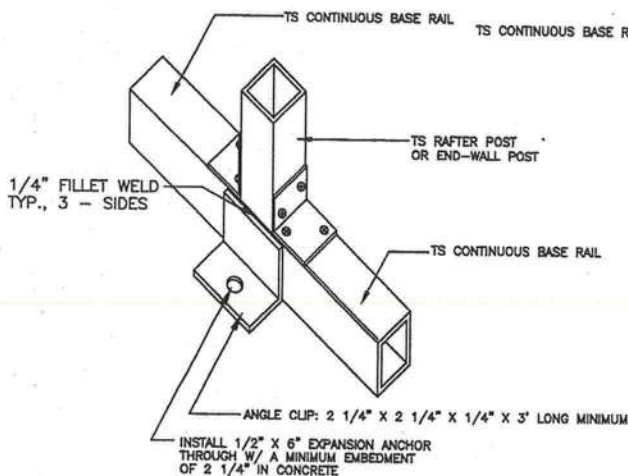
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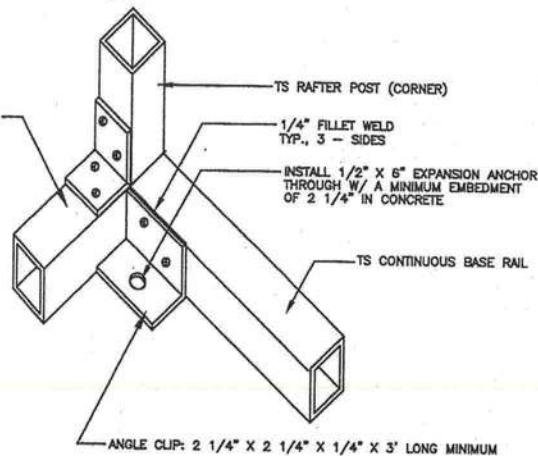


1 CONCRETE MONO SLAB
S3.1 SCALE: N.T.S.

1A INTERIOR CONCRETE SLAB BEARING
S3.1 SCALE: N.T.S.



1B CONCRETE MONO SLAB BASE RAIL ANCHORAGE
S3.1 SCALE: N.T.S.



1C CONCRETE MONO SLAB BASE RAIL ANCHORAGE
S3.1 SCALE: N.T.S.

CONCRETE:

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

COVER OVER REINFORCING STEEL

FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE: 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 INCHES ELSEWHERE. REINFORCING BARS EMBEDDED IN GROUTED CELLS SHALL HAVE A MINIMUM CLEAR DISTANCE OF 1/4 INCH FOR FINE GROUT OR 1/2" FOR COARSE GROUT BETWEEN REINFORCING BARS AND ANY FACE OF A CELL. REINFORCING BARS USED IN MASONRY WALLS SHALL HAVE A MASONRY COVER INCLUDING GROUT OF NOT LESS THAN 2 INCHES FOR MASONRY UNITS WITH FACE THAT IS EXPOSED TO EARTH OR WEATHER 1 1/2 INCHES FOR MASONRY UNITS NOT EXPOSED TO EARTH OR WEATHER.

THE REINFORCING SHALL BE MINIMUM GRADE 40.

GALVANIZATION:

METAL ACCESSORIES FOR USE IN EXTERIOR WALL CONSTRUCTION AND NOT DIRECTLY EXPOSED TO THE WEATHER SHALL BE GALVANIZED IN ACCORDANCE WITH EASTMAN A 153, CLASS B-2. METAL PLATE CONNECTORS, SCREWS, BOLTS AND NAILS EXPOSED DIRECTLY TO THE WEATHER SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED.

REINFORCEMENT MAY BE BENT IN THE SHOP OR FIELD PROVIDED:

1. ALL REINFORCEMENT IS BENT COLD.
2. THE DIAMETER OF THE BEND MEASURED ON THE INSIDE OF THE BAR IS NOT LESS THAN 6 BAR DIAMETERS; AND
3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.

EXCEPTION:

WHERE BENDING IS NECESSARY TO ALIGN DOWEL BARS WITH A VERTICAL CELL, BARS PARTIALLY EMBEDDED IN CONCRETE SHALL BE PERMITTED TO BE BENT AT A SLOPE OF NOT MORE THAN 1 INCH OF HORIZONTAL DISPLACEMENT TO 6 INCHES OF VERTICAL BAR LENGTH.

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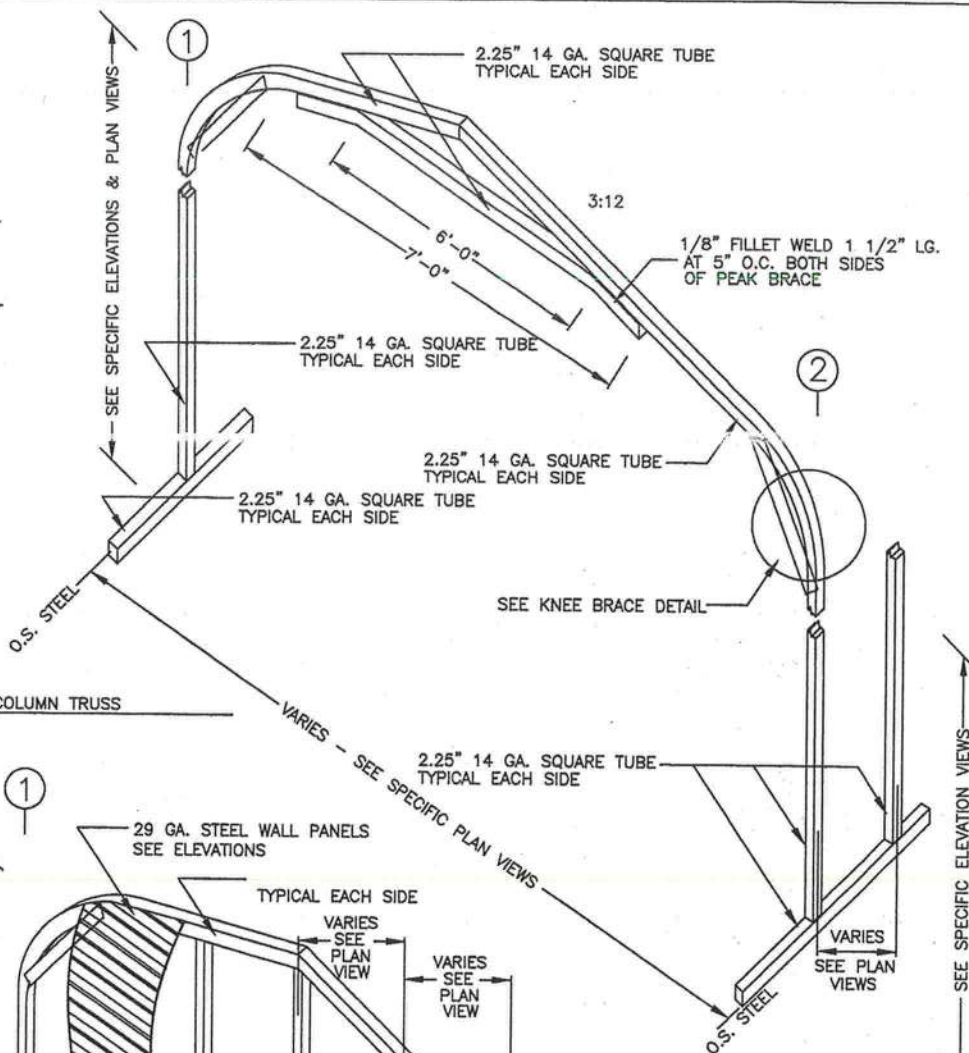
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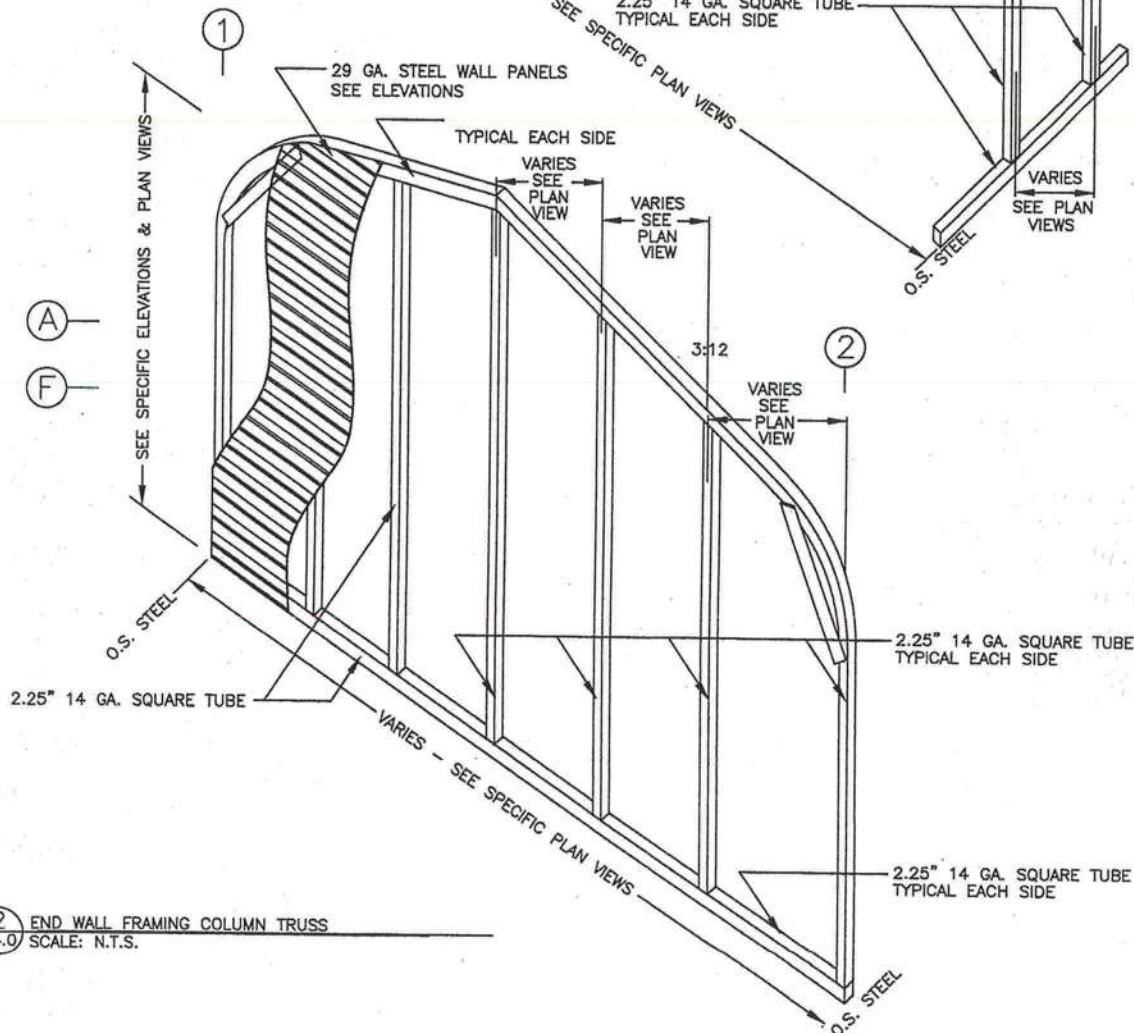
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S3.1	211535-MARON	08/08/12
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(B)
THROUGH
(E)



1 INTERIOR FRAMING COLUMN TRUSS
S4.0 SCALE: N.T.S.

(A)
(F)



2 END WALL FRAMING COLUMN TRUSS
S4.0 SCALE: N.T.S.

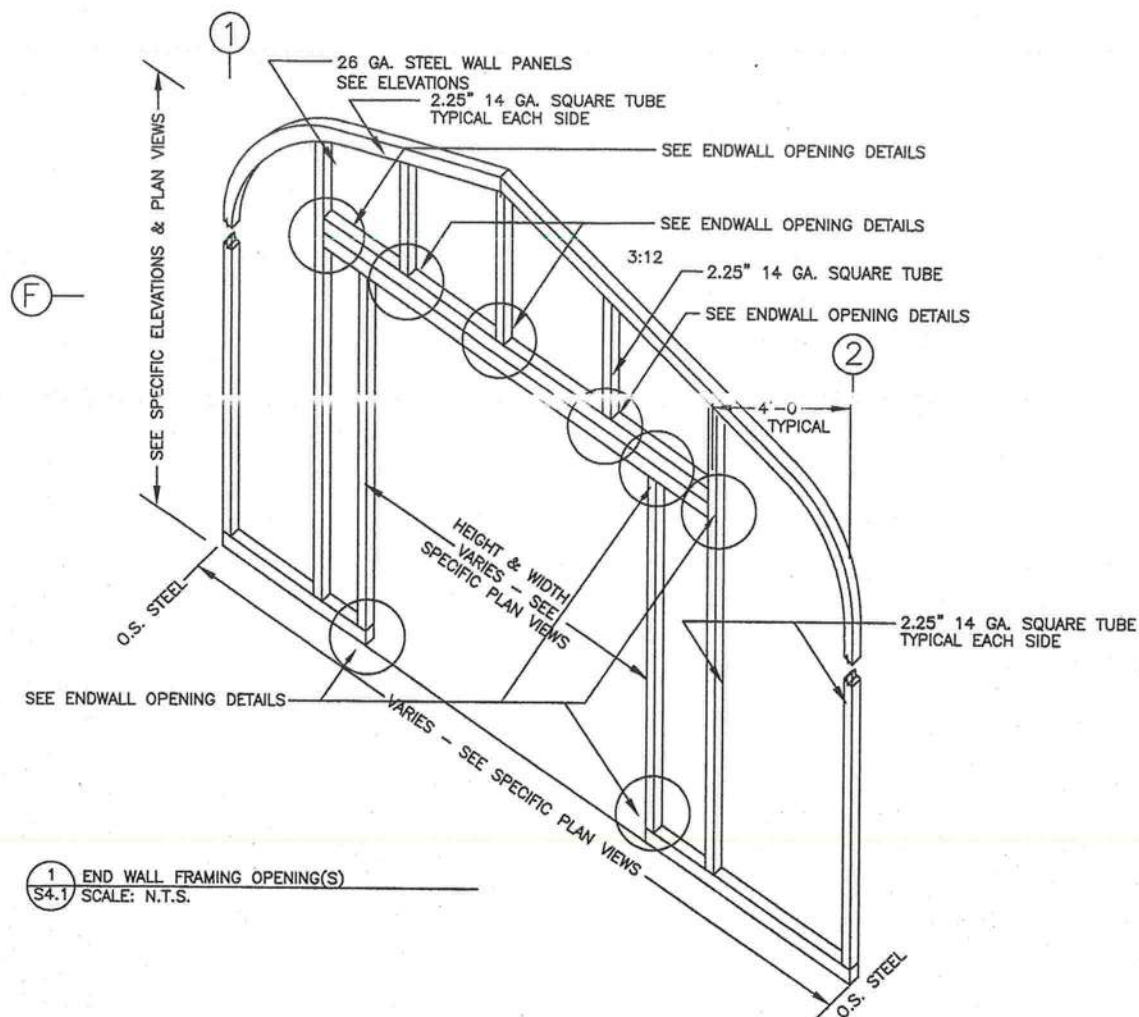
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S4.0	211535-MARON	08/08/12
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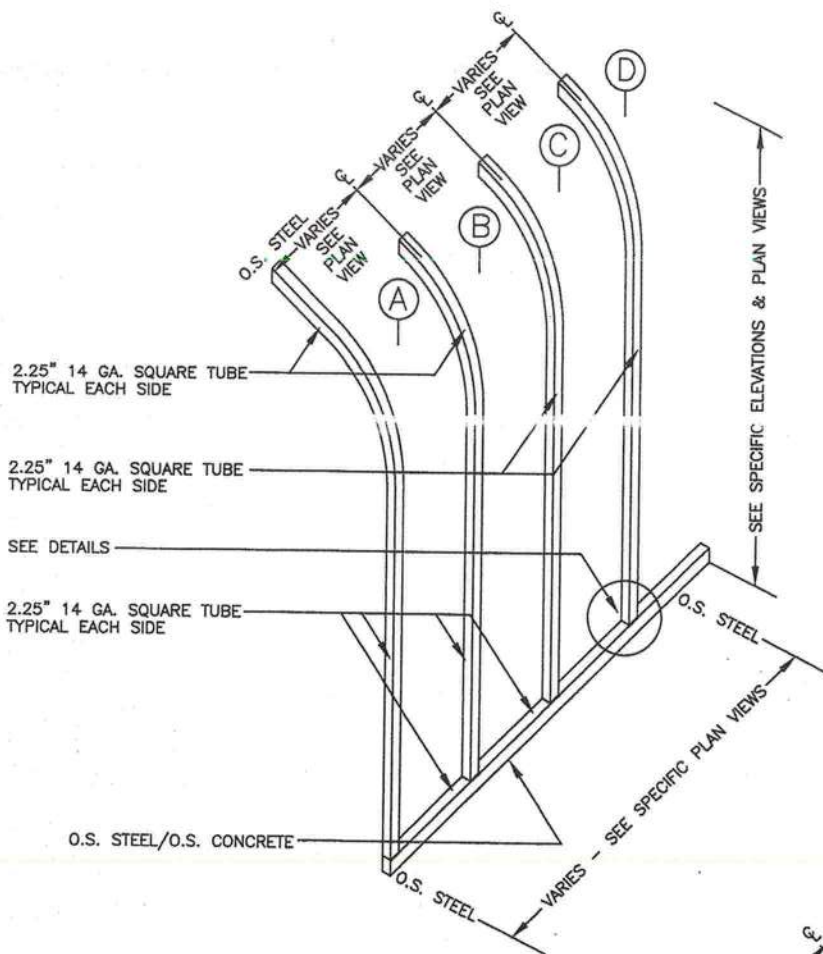
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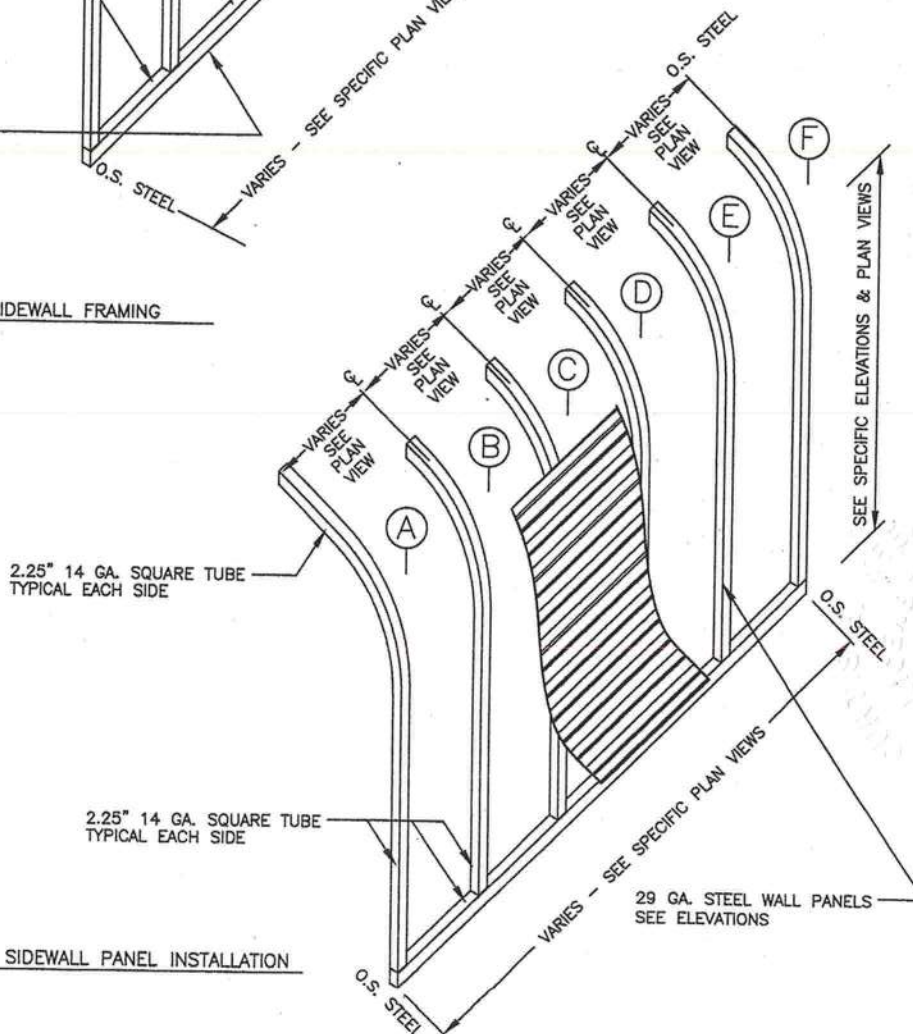
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S4.1	211535-MARON	08/08/12
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1 COLUMN TRUSS SIDEWALL FRAMING
SCALE: K.T.S.



2 COLUMN TRUSS SIDEWALL PANEL INSTALLATION
SCALE: K.T.S.

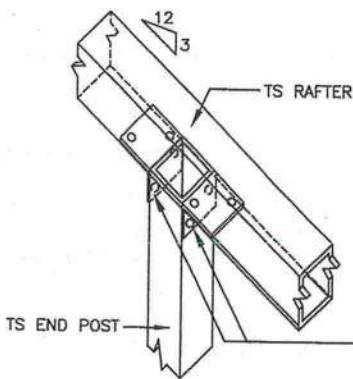
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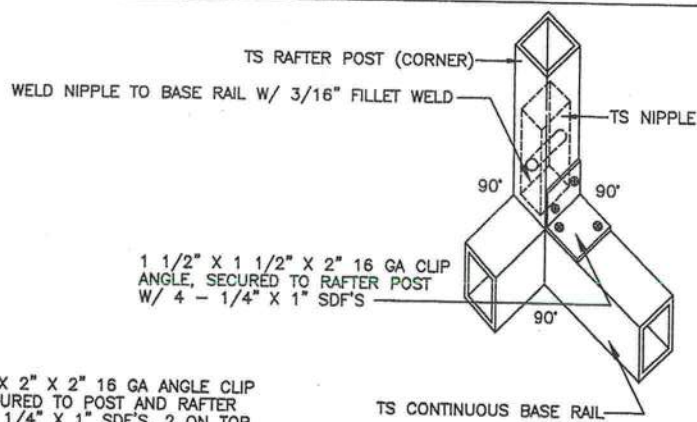
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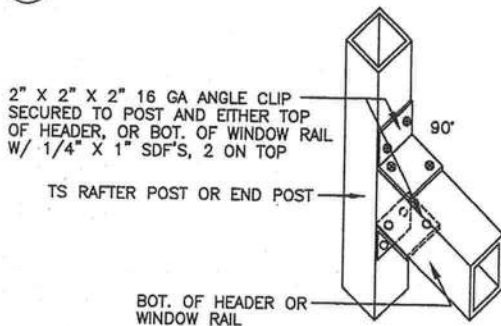
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S4.2	211535-MARON	08/08/12
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1 END POST RAFTER CONNECTION DETAIL
S4.2 SCALE: N.T.S.



2 END POST/BASE RAIL CONNECTION DETAIL
S4.2 SCALE: N.T.S.



3 NON-STRUCTURAL HEADER OR WINDOW RAIL TO POST CONNECTION DETAIL
S4.2 SCALE: N.T.S.

2" X 2" "BENT" EAR SECURED TO BASE RAIL W/ 1 - 1/4" X 1" SDF

2 - 1/4" X 1" SDF (1 - EA. SIDE)

16 GA. "U" CHANNEL

TS CORNER POST

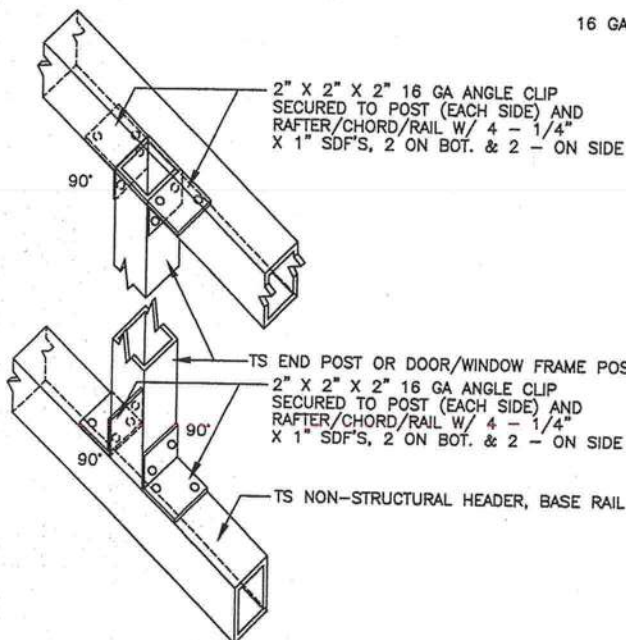
90°

TS BASE RAIL

2 - 1/4" X 1" SDF (1 - EA. SIDE)

2" X 2" "BENT" EAR SECURED TO BASE RAIL W/ 1 - 1/4" X 1" SDF

5 DIAGONAL BRACING @ CORNERS
S4.2 SCALE: N.T.S.



NOTE: AT ROLL UP DOOR OPENINGS POST SHOULD BE FLUSH WITH RAIL END. CLIP POST TO RAIL ONLY ON SIDE OPPOSITE THE OPENING

4 POST TO NON-STRUCTURAL HEADER, BASE RAIL OR WINDOW RAIL CONNECTION DETAIL
S4.2 SCALE: N.T.S.

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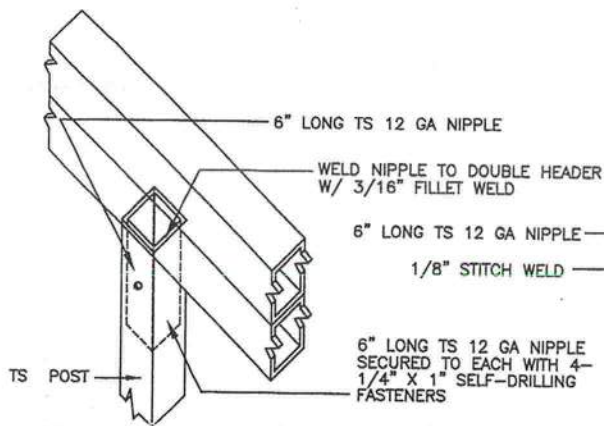
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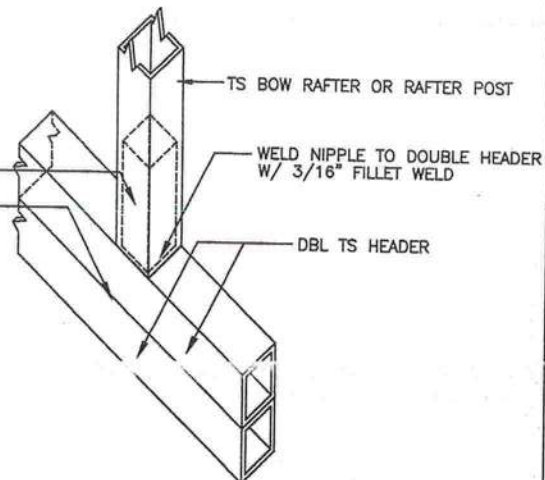
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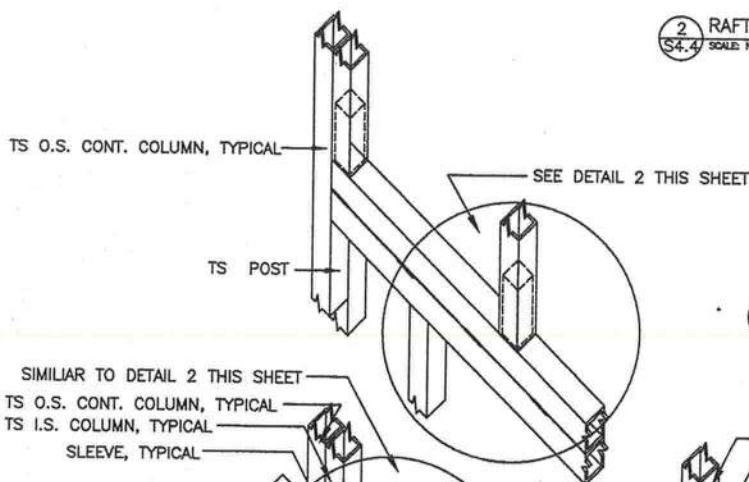
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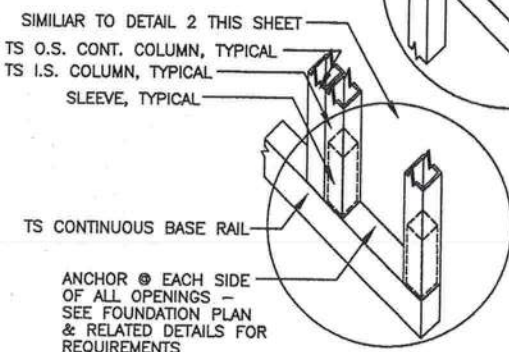
1 DBL HEADER/POST CONNECTION DETAIL
S4.4 SCALE: N.T.S.



2 RAFTER POST/DBL HEADER CONNECTION DETAIL
S4.4 SCALE: N.T.S.



3 SECTION THROUGH ROLL-UP DOOR HEADER
S4.4 SCALE: N.T.S.



4 SIDEWALL OPENING - TYPICAL FRAMING
S4.4 SCALE: N.T.S.

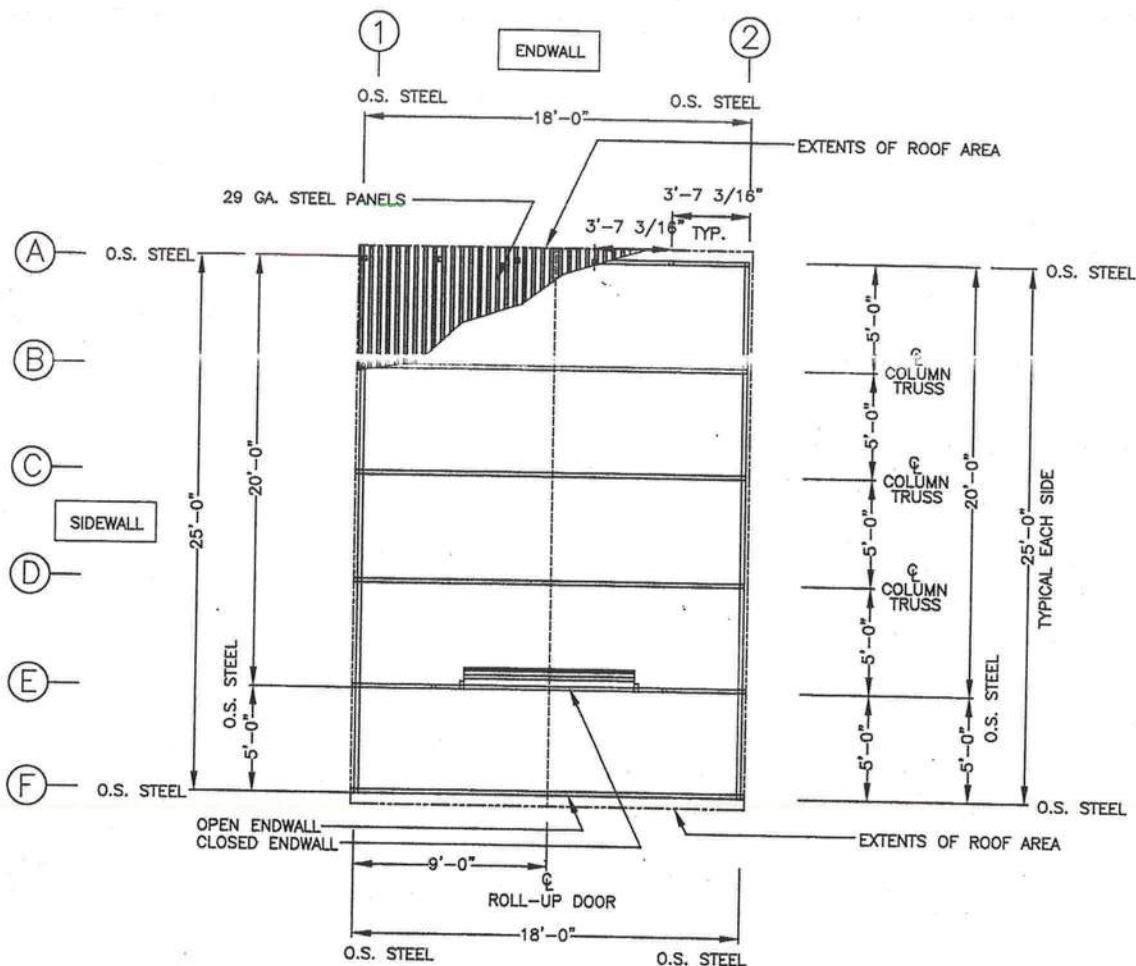
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S4.4	211535-MARON	08/08/12
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1 DIMENSIONED SPECIFIC ROOF PLAN VIEW
S5.0 SCALE: 1/8" = 1'-0"

FASTENER SCHEDULE

FASTEN HAT CHANNELS (1-1/2"x 18 GAUGE) TO RAFTER WITH (2) 1/4" X 1" SDF SPACED NOT MORE THAN 48" O.C.

FASTEN METAL ROOF PANELS WITH TEKS #12x1" SCREWS W/ NEOPRENE/ STEEL WASHER @ 6" C/C OF EDGE PANEL AND 8" C/C ELSEWHERE WITH MINIMUM ONE FASTENER PER SPAN AT SIDELAP PANELS AND MAXIMUM OF 4" C/C SPACING AT PANEL OVERLAP WITH SILICON CAULKING.
WHERE PITCH OF ROOF IS LESS THAN 3:12 - A MINIMUM OF 2 CONTINUOUS BEADS OF SILICONE CAULKING OR OTHER APPROVED SEALANT SHALL BE APPLIED BETWEEN ALL LAPS @ STEEL ROOFING PANELS.

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