6) UNLESS SHEAR COLLECTOR ASSEMBLIES ARE SHOWN AND DETAILED IN THE DRAWINGS, AT ALL PERIMETER DECK DIAPHRAGM BOUNDARIES AND AT SHEAR TRANSFER BAYS OF INTERIOR BRACED FRAME OR MOMENT FRAME LINES, JOIST SEATS AND THEIR ANCHORAGE TO SUPPORTING STEEL SHALL BE DESIGNED FOR THE FOLLOWING LATERAL SEAT ROLLOVER FORCES:
   A) FOR JOIST SEATS DEPTHS UP TO 3-1/2 INCHES, MINIMUM SERVICE LEVEL ROLLOVER CAPACITY SHALL BE 2,000 LBS.
   B) FOR JOIST SEATS DEPTHS GREATER THAN 3-1/2 INCHES AND LESS THAN OR EQUAL TO 5 INCHES, MINIMUM SERVICE LEVEL ROLLOVER CAPACITY SHALL BE 1,200 LBS.

7) BOTTOM CHORDS ON ALL JOISTS SHALL BE EXTENDED TO RECEIVE CEILING OR POTENTIAL FUTURE CEILING.

8) IN STEEL FRAMES, WHERE COLUMNS ARE NOT FRAMED IN AT LEAST TWO DIRECTIONS WITH SOLID WEB STRUCTURAL STEEL MEMBERS, STEEL JOISTS SHALL BE FIELD-BOLTED TO THE COLUMNS TO PROVIDE LATERAL STABILITY TO THE COLUMNS DURING ERECTION AND BOTTOM CHORD STABILITY PLATES SHALL BE PROVIDED AS REQUIRED BY OSHA SAFETY STANDARDS.

D. JOIST BRIDGING

1) JOIST BRIDGING SHOWN ON FRAMING PLANS IS PRELIMINARY AND SHALL NOT BE USED AS THE BASIS FOR BID OR FOR ERECTION. ALL JOIST BRIDGING SHALL BE DESIGNED BY THE JOIST MANUFACTURER TO MEET OR EXCEED THE MINIMUM REQUIREMENTS OF CURRENT SJI SPECIFICATIONS AND ALL OSHA PROVISIONS REGARDING JOIST ERECTION.

2) ADDITIONAL BRIDGING LINES AT THE BOTTOM CHORD OUTSIDE PANEL POINT HAVE NOT BEEN SHOWN FOR CLARITY BUT ARE REQUIRED FOR THE SUPPORT OF UPLIFT LOADS. PROVIDE AS DESIGNED BY THE JOIST MANUFACTURER.

3) NO VERTICAL LOAD SHALL BE IMPOSED ON BRIDGING.

4) HORIZONTAL BRIDGING ANGLES FOR TOP AND BOTTOM CHORDS OF JOISTS ARE SHOWN ON FRAMING PLANS THUS: - - - - - -

5) DIAGONAL BRIDGING IS SHOWN AS AN "X" ALONG A LINE OF HORIZONTAL BRIDGING. DIAGONAL BRIDGING SHALL BE PROVIDED WHERE SHOWN AND AT ANY DISCONTINUITIES IN THE ROW OF BRIDGING.

6) ALL BRIDGING LINES SHALL BE TERMINATED WITH AN "X" OR ANCHORED TO A STRUCTURAL WALL. REFER TYPICAL DETAILS FOR JOIST BRIDGING DETAILS.

E. JOIST ERECTION

1) ERECTION OF JOISTS SHALL FOLLOW CURRENT SJI SPECIFICATIONS, SJI TECHNICAL DIGEST NO. 9 AND ALL APPLICABLE PROVISIONS OF OSHA SAFETY STANDARDS. JOISTS SHALL NOT BE FULLY LOADED UNTIL ALL BRIDGING LINES ARE SECURED AND METAL DECKING IS IN PLACE. THE JOIST MANUFACTURER AND ERECTOR SHALL PROVIDE ADDITIONAL BRIDGING DURING CONSTRUCTION SEQUENCING AS REQUIRED BY THE CURRENT SJI SPECIFICATIONS AND OSHA SAFETY STANDARDS.

2) NO LOAD APPLIED TO JOIST SHALL BE DONE IN A MANNER THAT EXCEEDS THE MOMENT OR SHEAR CAPACITY OF THE JOIST.

3) ANY HANGERS SUPPORTED FROM JOISTS SHALL BE CONNECTED WITHOUT FIELD WELDING OR DRILLING TO THE JOIST.

13) METAL DECK NOTES

A. GOVERNING CODES AND STANDARDS: IN ADDITION TO THE REQUIREMENTS OF THE GOVERNING INTERNATIONAL BUILDING CODE, ALL STEEL DECK AND ASSOCIATED MATERIALS SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE FOLLOWING STEEL DECK INSTITUTE (SDI) STANDARDS AND AS SUPPLEMENTED BY THESE GENERAL NOTES AND THE PROJECT DRAWINGS AND SPECIFICATIONS.
   1) SDI NC-2017 "STANDARD FOR NONCOMPOSITE STEEL FLOOR DECK"
   2) SDI RD-2017 "STANDARD FOR STEEL ROOF DECK"
   3) SDI-C-2017 "STANDARD FOR COMPOSITE STEEL FLOOR DECK SLABS"
   4) SDI-QA/QC-2017 "STANDARD FOR QUALITY CONTROL AND QUALITY ASSURANCE FOR INSTALLATION OF STEEL DECK"

B. ROOF DECK:

1) BASIS OF DESIGN: VULCRAFT TYPE 1.5B WIDE RIB DECK WITH THE CHARACTERISTICS AND STRUCTURAL PROPERTIES OUTLINED BELOW. WIDE RIB DECKS OF OTHER MANUFACTURERS ARE ACCEPTABLE IF THEY PROVIDE SIMILAR LOAD-CARRYING CAPACITY FOR THE DECK SPANS APPLICABLE TO THIS PROJECT.
   A) SDI DECK TYPE: WIDE RIB (WR)
   B) DEPTH: 1-1/2 IN.
   C) THICKNESS: 20 GAGE
   D) FINISH: GALVANIZED
   E) I = 0.212 IN4/FT
   F) Sp = 0.234 IN3/FT
   G) Sn = 0.247 IN3/FT
   H) Fy = 33 KSI
   I) SIDE LAPS: OVERLAPPED

2) SUPPORT FASTENERS: ROOF DECK SHALL BE CONNECTED TO SUPPORTS WITH #12 MECHANICAL FASTENERS AT 6" O.C. (36/7 PATTERN).
   A) FASTENERS SHALL PENETRATE ALL PLIES OF DECKING INTO SUPPORTING SUBSTRATE OR 2 LINES OF FASTENERS SHALL BE PROVIDED.
   B) #12 MECHANICAL FASTENERS ARE CAPABLE OF SELF-TAPPING INTO A 1/2-INCH MAXIMUM SUPPORTING STEEL THICKNESS. IF SUPPORTING STEEL THICKNESS EXCEEDS 1/2-INCH OR IF SUPPORT IS AN EMBED PLATE, PROVIDE (1) 5/8-INCH DIAMETER PUDDLE WELD IN LIEU OF EACH #12 FASTENER.

3) SIDE LAP FASTENERS: ROOF DECK SIDE LAPS SHALL BE FASTENED WITH #10 SIDE LAP FASTENERS AT 12" ON CENTER.

4) MINIMUM BEARING LENGTH AND LAP LENGTH: MINIMUM BEARING LENGTH ON SUPPORTS AT DISCONTINUOUS ENDS OF ROOF DECK IS 1.5-INCHES. MINIMUM BEARING LENGTH AND LAP LENGTH OF CONTINUOUS ROOF DECK OVER INTERIOR SUPPORTS IS 3-INCHES.

C. ACOUSTICAL ROOF DECK (7 7/8"):

1) BASIS OF DESIGN: EPIC TYPE ENVISTA 7.9A DECK WITH THE CHARACTERISTICS AND STRUCTURAL PROPERTIES OUTLINED BELOW. ACOUSTICAL DEEP DECKS OF OTHER MANUFACTURERS ARE ACCEPTABLE IF THEY PROVIDE SIMILAR LOAD-CARRYING CAPACITY FOR THE DECK SPANS APPLICABLE TO THIS PROJECT.
   A) SDI DECK TYPE: NARROW RIB (N)
   B) DEPTH: 7 7/8 IN.
   C) THICKNESS: 16 GAGE
   D) FINISH: GALVANIZED
   E) I = 12.92 IN4/FT
   F) Sp = 2.90 IN3/FT
   G) Sn = 2.90 IN3/FT
   H) Fy = 40 KSI
   I) SIDE LAPS: OVERLAPPED

2) SUPPORT FASTENERS: ROOF DECK SHALL BE CONNECTED TO SUPPORTS WITH 16/2 PATTERN, (2) 3/4-INCH DIAMETER PUDDLE WELD AT 16" PER 16" WIDE PANEL OR AS INDICATED BY MANUFACTURERS ERECTION DRAWINGS.
   A) SIDES OF PANELS LOCATED ALONG PERIMETER OF BUILDING SHALL BE FASTENED TO SUPPORTING MEMBERS AT MAXIMUM SPACING OF 36" ON CENTER OR LESS AS INDICATED PER MANUFACTURERS ERECTION DRAWINGS.

3) SIDE LAP FASTENERS: ROOF DECK SIDE LAPS SHALL BE FASTENED WITH #12 X 3/4" MAXIMUM LENGTH SCREWS AT MAXIUMUM SPACING OF 36" ON CENTER OR LESS AS INDICATED PER MANUFACTURERS ERECTION DRAWINGS.

4) MINIMUM BEARING LENGTH AND LAP LENGTH: MINIMUM BEARING LENGTH ON SUPPORTS AT DISCONTINUOUS ENDS OF ROOF DECK AND MINIMUM BEARING LENGTH AND LAP LENGTH OF CONTINUOUS ROOF DECK OVER INTERIOR SUPPORTS IS DETERMINED BY DECK MANUFACTURER.

D. SUBSTITUTION OF WELDING OR PINS FOR MECHANICAL SCREW ANCHORS WILL NOT BE PERMITTED.

E. SUPPORTS FOR DECKING ARE DEFINED AS MEMBERS PROVIDING DIRECT TRANSVERSE SUPPORT AS WELL AS CONTINUOUS PARALLEL EDGE SUPPORT.

F. ALL DECKING SHALL BE PLACED WITH RIBS PERPENDICULAR TO SUPPORTING ROOF OR FLOOR MEMBERS AND SHALL SPAN A MINIMUM OF 3 SPANS UNLESS SHOWN OTHERWISE IN STRUCTURAL DRAWINGS.

G. METAL DECKING SHALL NOT BE USED TO SUPPORT ANY HANGING LOADS INCLUDING, BUT NOT LIMITED TO, SUSPENDED MECHANICAL, ELECTRICAL, OR PLUMBING EQUIPMENT, CABLE TRAYS OR RACEWAYS, CEILING FINISHES OR CEILING FRAMING.

H. ALL DECK OPENINGS UP TO 8-IN. SHALL BE REINFORCED WITH A MINIMUM 16-GAGE PLATE AS SHOWN IN TYPICAL ROOF DECK REINFORCING DETAIL.

I. ALL DECK OPENINGS GREATER THAN 8-IN. SHALL BE SUPPORTED BY AN ANGLE FRAME. IF SPECIFIC FRAMING SIZES ARE NOT PROVIDED ON THE FRAMING PLAN, REFER TYPICAL DETAILS FOR ROOF OPENING FRAME DETAIL.

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