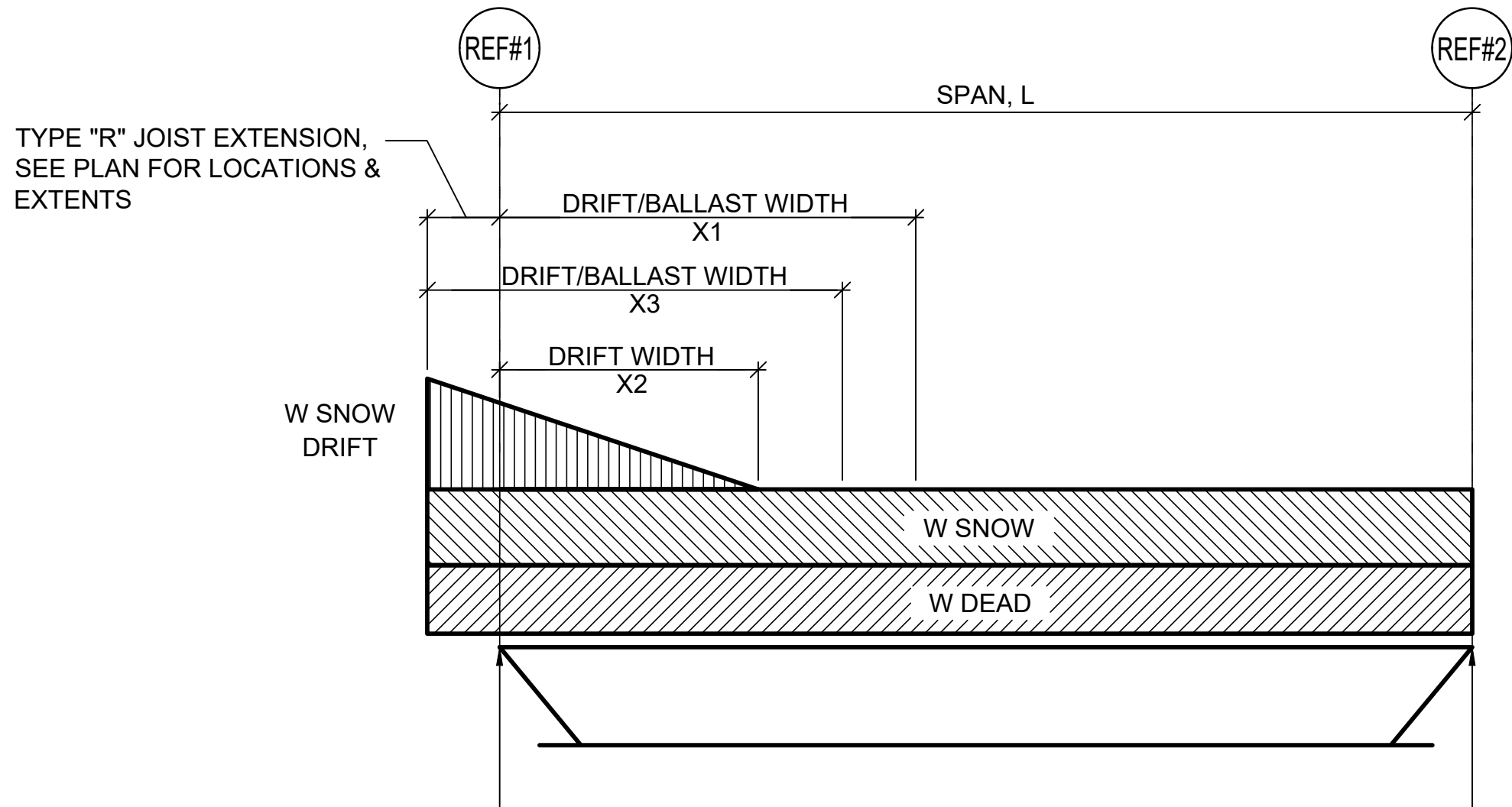
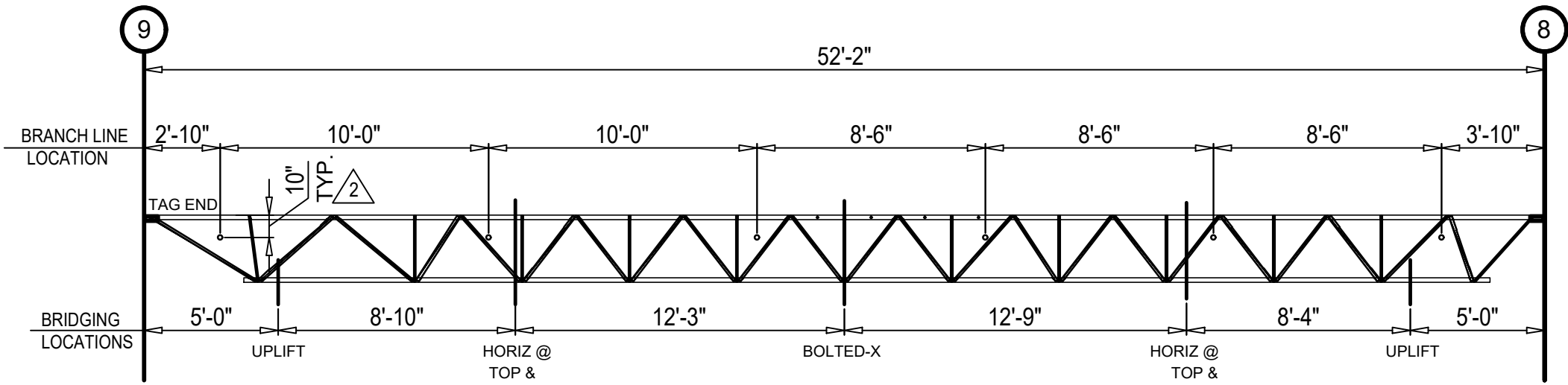


'SP' JOIST LOADING DIAGRAM

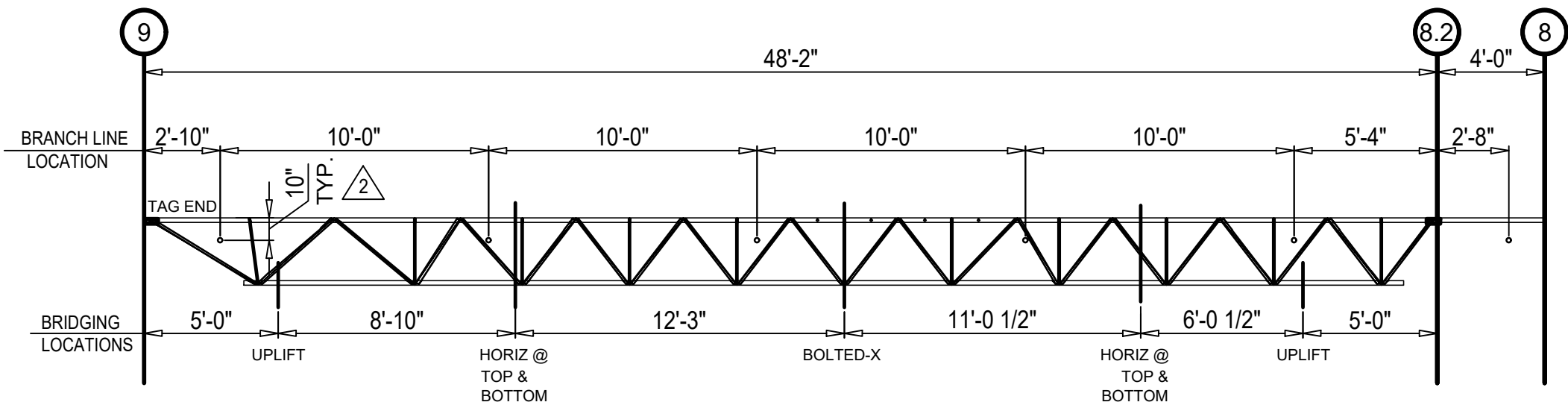


SPECIAL JOIST SCHEDULE									
MARK	SPAN, L	W DEAD (PLF)	W SNOW (PLF)	W SNOW DRIF (PLF)	X1 (FT)	X2 (FT)	X3 (FT)	REF#1	REF#2
30KSP1	53'-0"	165 (184@X3)	128	N/A	N/A	N/A	13'-3"	8	9
30KSP2	48'-2"	161 (179@X3)	126	N/A	N/A	N/A	13'-3"	8.2	9
30KSP3	48'-2"	168 (187@X3)	131	N/A	N/A	N/A	13'-3"	8.2	9
30KSP4	53'-0"	178 (184@X1)	128	86	13'-3"	6'-9"	N/A	10	9
30KSP5	53'-0"	168 (187@X1)	131	87	13'-3"	6'-9"	N/A	10	9
30KSP6	53'-0"	158 (175@X1)	123	81	13'-3"	6'-9"	N/A	10	9
30KSP7	53'-0"	162 (180@X1)	126	84	13'-3"	6'-9"	N/A	10	9
30KSP8	53'-0"	175 (180@X1)	126	84	13'-3"	6'-9"	N/A	10	9

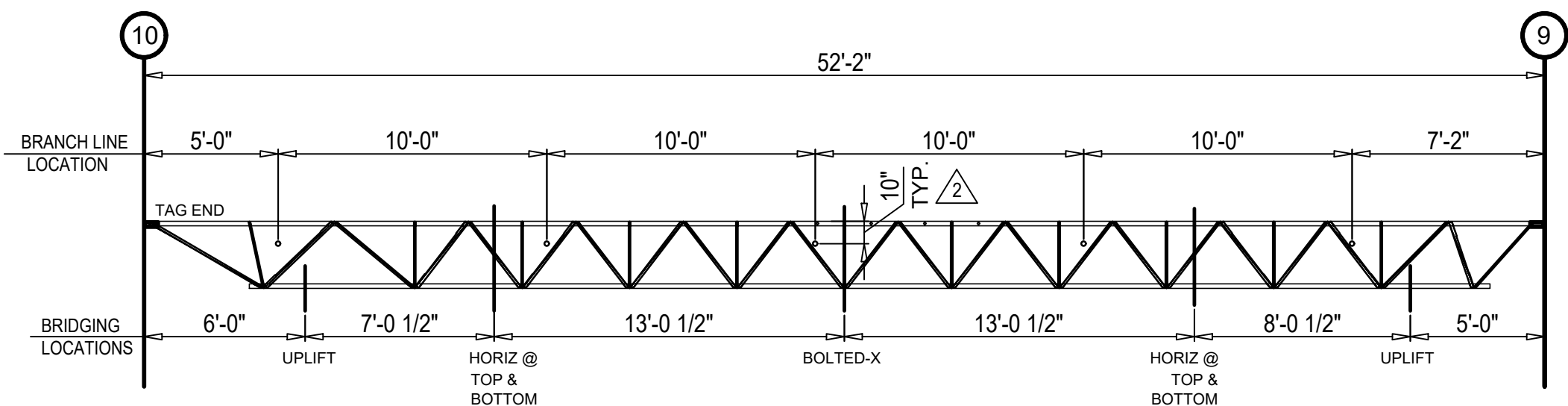
BRIDGING & BRANCH LINE LOCATIONS



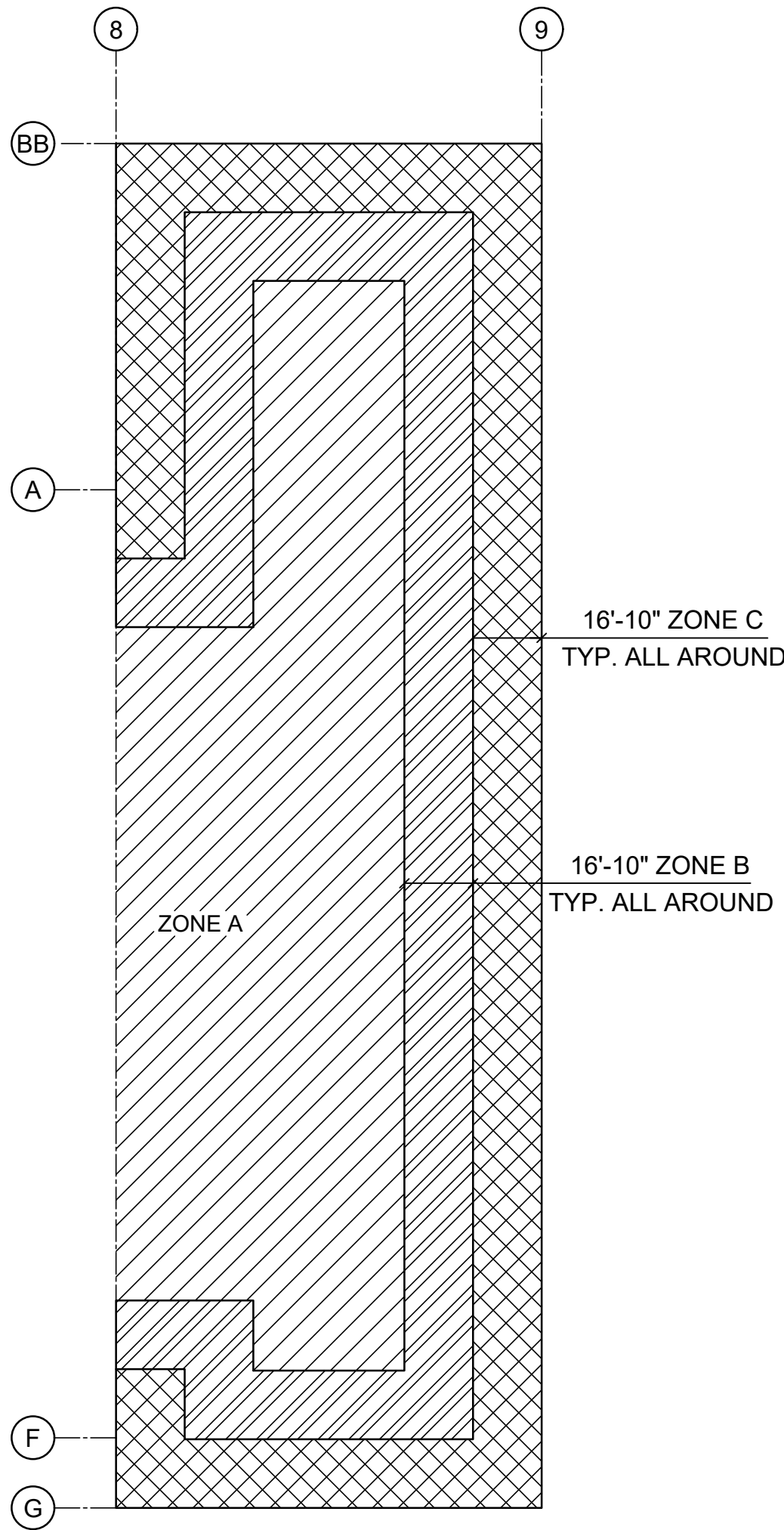
SKETCH-1



SKETCH-2



SKETCH-3

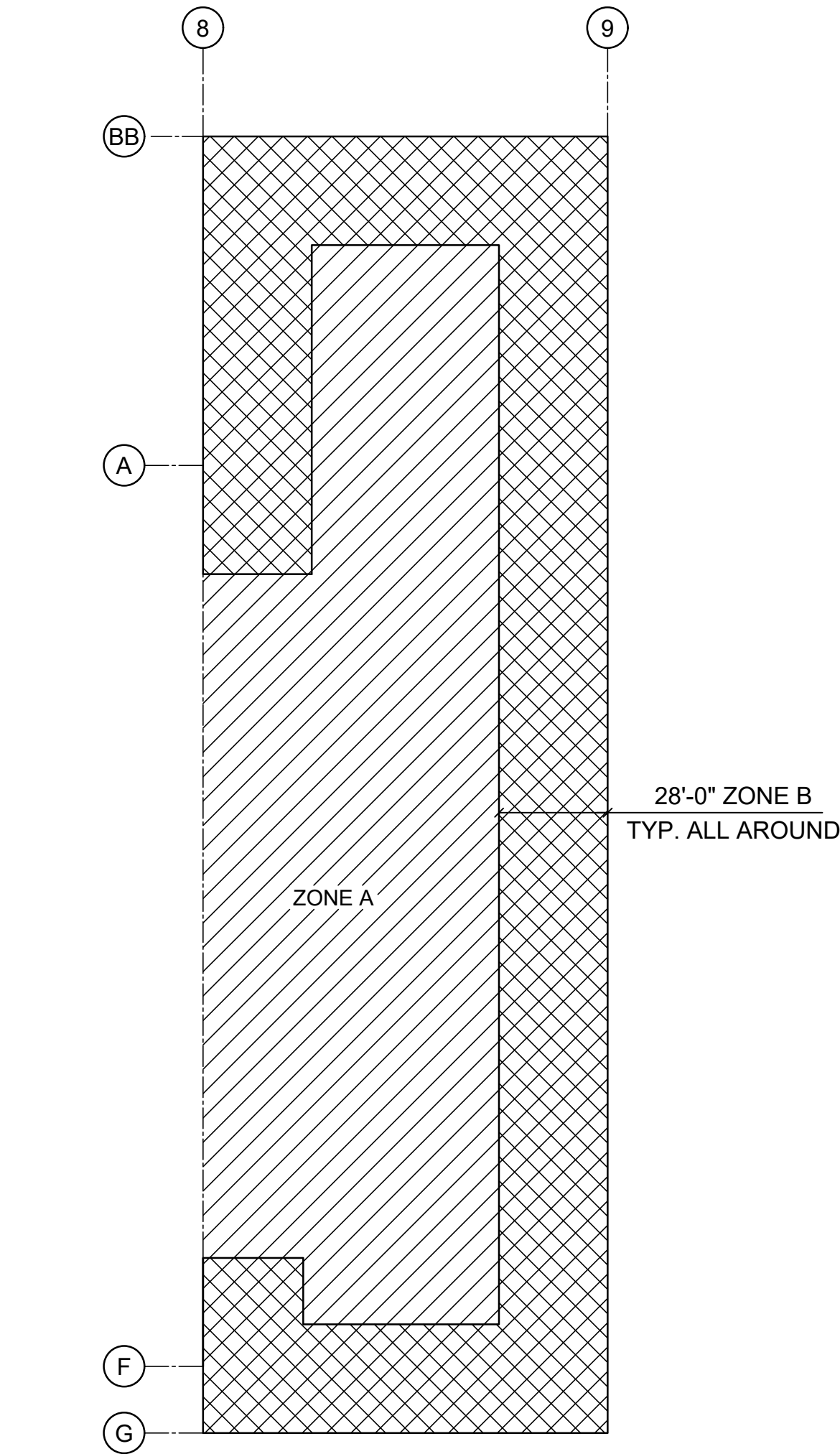


JOIST UPLIFT LOADING DIAGRAM

REF : S202

NET UPLIFT CHART :

MEMBER	ZONE A	ZONE B	ZONE C
JOIST	-4.2 PSF	-7.2 PSF	-13.2 PSF



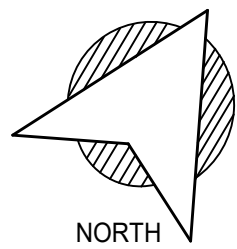
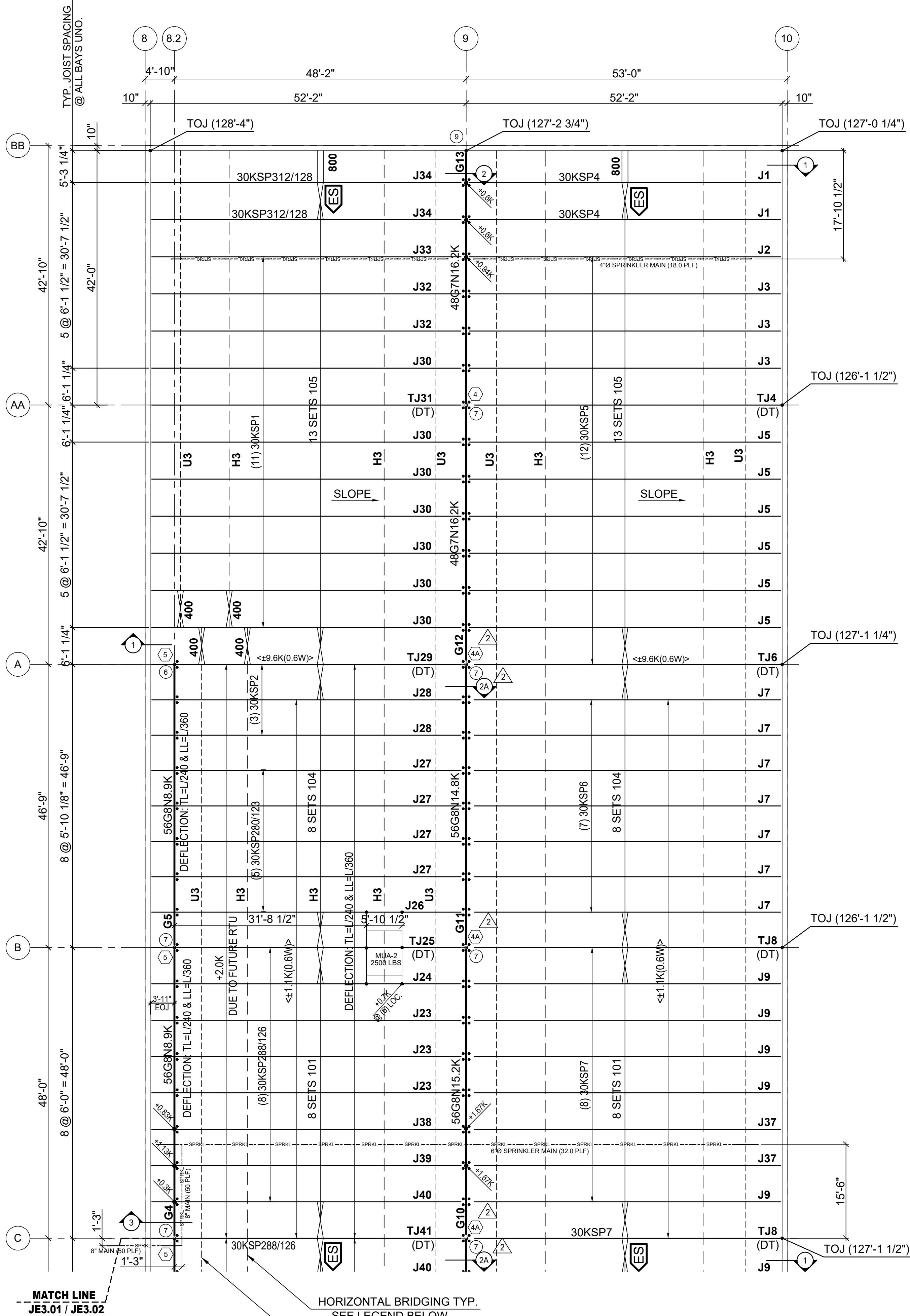
GIRDER UPLIFT LOADING DIAGRAM

REF : S202

NET UPLIFT CHART :

MEMBER	ZONE A	ZONE B
GIRDER	-1.0 PSF	-4.4 PSF

ALL JOIST & BRIDGING WILL BE PAINTED WITH
ONE COAT SJI STANDARD GRAY DIP PRIMER.



ROOF JOIST PLACEMENT PLAN

SEQ. #01J

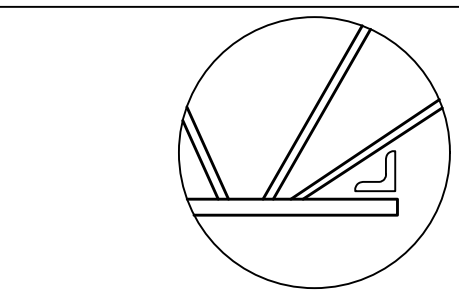
REF.: S201

1. THE TAG END OF THE JOIST IS THE END AT WHICH THE PIECEMARK IS LOCATED.
2. REFERENCE DWG JE1.01 FOR LEGEND, SYMBOLS & ABBREVIATIONS.
3. FOR JOIST SECTIONS SEE JE4.01.
4. ALL JOISTS BEARING COL'S ARE HSS10x10 TYP.
5. ○ DENOTES @ COLUMN JOIST CONNECTION.
6. ○ DENOTES @ COLUMN GIRDER CONNECTION.
7. FOR SNOW LOADING DIAGRAM SEE JE1.11.
8. THE JOIST SUPPORTING THE SPECIFIC LOADS AND LOCATIONS AS SHOWN ON THIS FRAMING PLAN ARE DESIGNED SUCH THAT THE JOIST REINFORCEMENT AT CONCENTRATED LOADS DETAIL ON SHEET JE1.01 IS NOT REQUIRED.
9. JOIST TO BE DESIGNED WITH 0" CAMBER.
10. DEFLECTION: TL = L/180 & LL = L/240 (U.N.O.)

NET UPLIFT = SEE DIAGRAM ON SHEET JE1.11

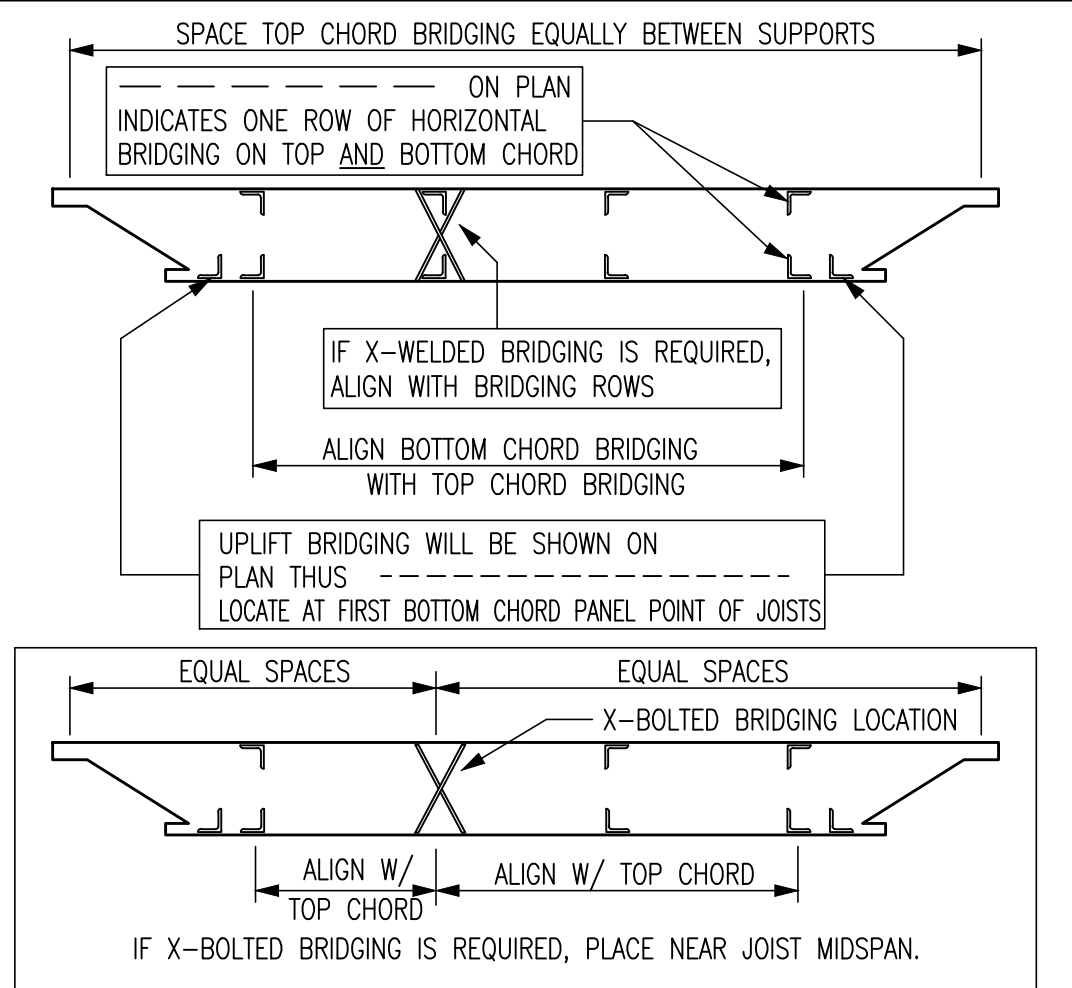
ADDITIONAL BRIDGING DUE TO UPLIFT

A SINGLE ROW OF HORIZONTAL BRIDGING LOCATED @ THE FIRST BOTTOM CHORD PANEL POINT @ EACH END. TYP. @ EACH JOIST SHOWN ----- ON PLAN. THE UPLIFT BRIDGING SIZE IS THE SAME AS THE REGULAR BRIDGING SIZE FOR THAT BAY.



UPLIFT BRIDGING DETAIL

UPLIFT BRIDGING **MUST** BE LOCATED PER DIMENSIONS (WHEN PROVIDED) SHOWN ON PLAN. BRIDGING MAY BE LOCATED EITHER SIDE OF THE JOIST BOTTOM CHORD PANEL POINTS.



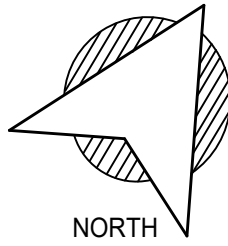
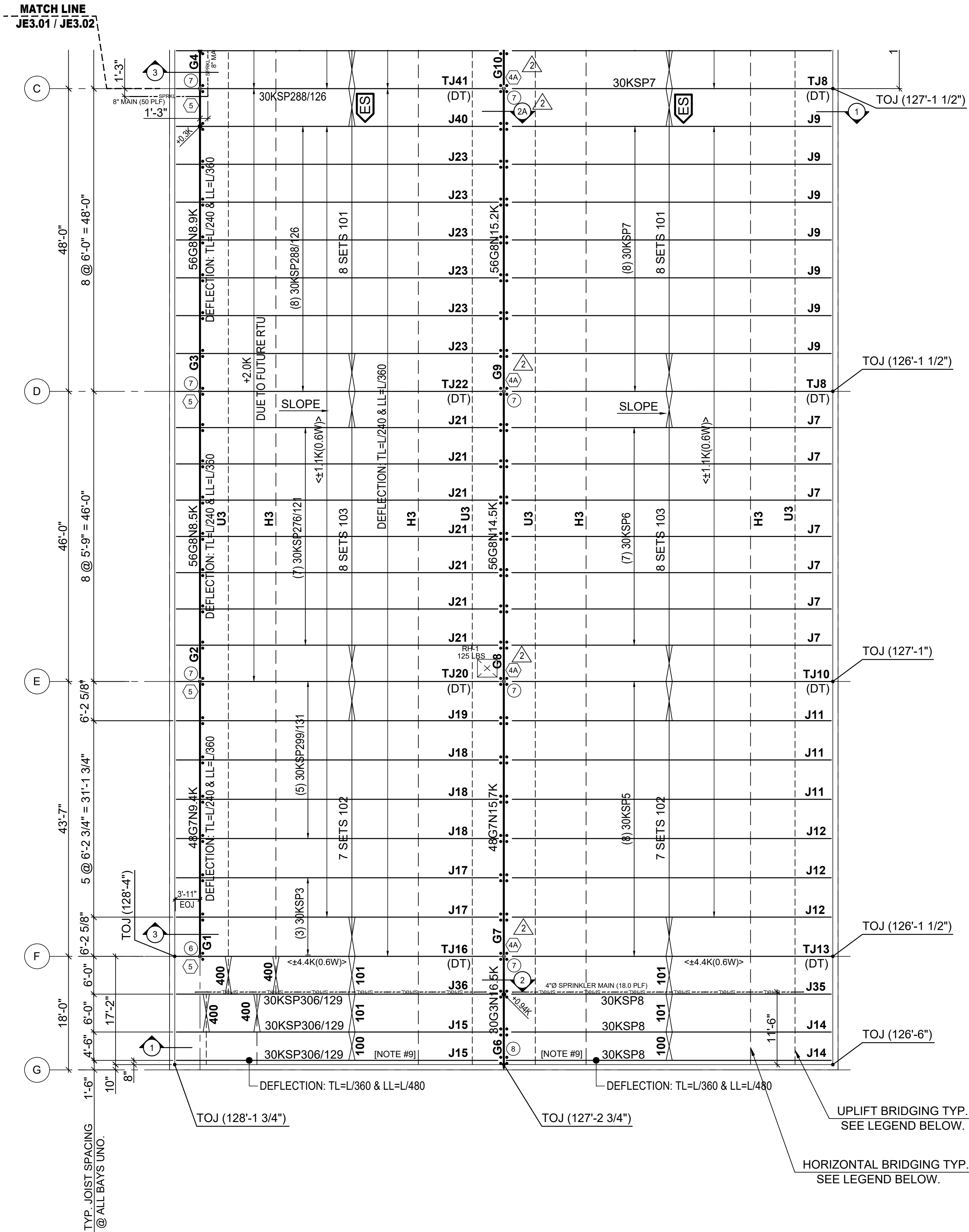
TYPICAL BRIDGING SPACING ALIGNED W/UPLIFT

NOTE: BRIDGING ROW QUANTITY'S WILL VARY.
(SEE JOIST ERECTION PLANS FOR BRIDGING ROW REQUIREMENTS.)

BRIDGING LEGEND WITH ANGLE SIZE

	10 SETS 100	= CONTINUOUS ROW OF BOLTED-X BRIDGING. IDENTIFIED ON PLACEMENT PLAN BY MARKS 001 - 399
	800	= BOLTED HORIZONTAL BRIDGING, IDENTIFIED ON PLACEMENT PLAN BY MARKS 800 - 899
	400	= WELDED-X BRIDGING, IDENTIFIED ON PLACEMENT PLAN BY MARKS 400 - 799
	H#	= CONTINUOUS ROW OF HORIZONTAL BRIDGING AT TOP AND BOTTOM CHORD, IDENTIFIED BY MARKS H1 - H6 ON PLACEMENT PLAN. REFERENCE TYPICAL BRIDGING SPACING DETAIL ON EACH PLACEMENT PLAN FOR SPACING REQUIREMENTS, UNLESS SPECIFIC LOCATIONS ARE SHOWN.
	U#	= CONTINUOUS ROW OF HORIZONTAL UPLIFT BRIDGING INSTALLED AT FIRST BOTTOM CHORD PANEL POINT, IDENTIFIED ON PLAN BY H1 - H6 (REFERENCE TYPICAL BRIDGING SPACING DETAIL ON ROOF PLACEMENT PLANS)
	900	= GIRDER BOTTOM CHORD BRACE, IDENTIFIED ON PLAN BY MARKS 900 - 999 (AFTER APPROVAL)

ALL JOIST & BRIDGING WILL BE PAINTED WITH
ONE COAT SJI STANDARD GRAY DIP PRIMER.



ROOF JOIST PLACEMENT PLAN

SEQ. #01J

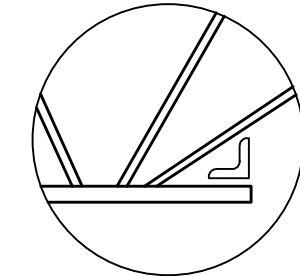
REF. : S201

1. THE TAG END OF THE JOIST IS THE END AT WHICH THE PIECEMARK IS LOCATED.
2. REFERENCE DWG JE1.01 FOR LEGEND, SYMBOLS & ABBREVIATIONS.
3. FOR JOIST SECTIONS SEE JE4.01.
4. ALL JOISTS BEARING COL'S ARE HSS10x10 TYP.
5. DENOTES @ COLUMN JOIST CONNECTION.
6. DENOTES @ COLUMN GIRDER CONNECTION.
7. FOR SNOW LOADING DIAGRAM SEE JE1.11.
8. THE JOIST SUPPORTING THE SPECIFIC LOADS AND LOCATIONS AS SHOWN ON THIS FRAMING PLAN ARE DESIGNED SUCH THAT THE JOIST REINFORCEMENT AT CONCENTRATED LOADS DETAIL ON SHEET JE1.01 IS NOT REQUIRED.
9. WHERE THESE LOADS ARE APPLIED AS A POINT LOAD AWAY FROM PANEL POINTS, THE JOIST REINFORCEMENT AT CONCENTRATED LOADS DETAIL ON SHEET JE1.01 DOES APPLY.
10. DEFLECTION: LL = L/240 & TL = L/180 (U.N.O.)

NET UPLIFT = SEE DIAGRAM ON SHEET JE1.11

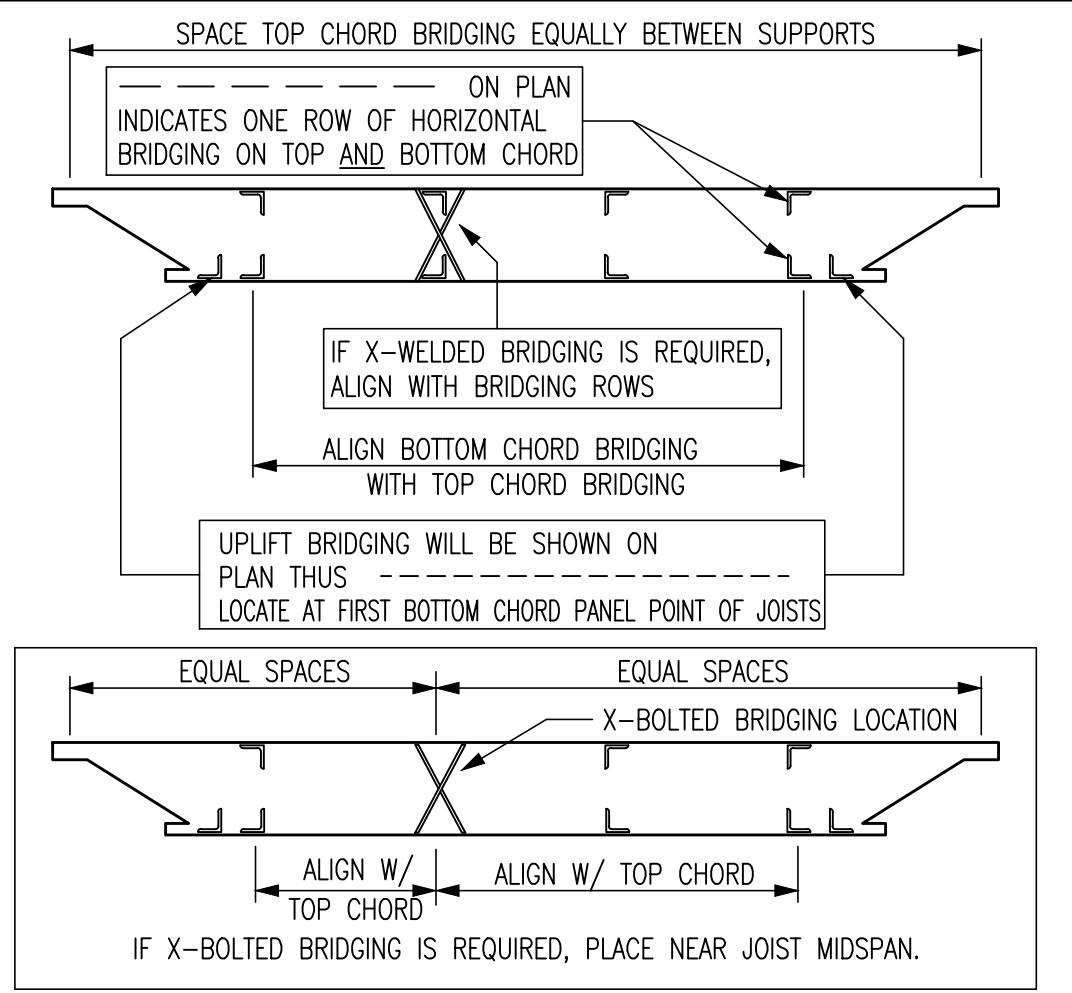
ADDITIONAL BRIDGING DUE TO UPLIFT

A SINGLE ROW OF HORIZONTAL BRIDGING LOCATED @ THE FIRST BOTTOM CHORD PANEL POINT @ EACH END. TYP. @ EACH JOIST SHOWN ----- ON PLAN. THE UPLIFT BRIDGING SIZE IS THE SAME AS THE REGULAR BRIDGING SIZE FOR THAT BAY.



UPLIFT BRIDGING DETAIL

UPLIFT BRIDGING **MUST** BE LOCATED PER DIMENSIONS (WHEN PROVIDED) SHOWN ON PLAN. BRIDGING MAY BE LOCATED EITHER SIDE OF THE JOIST BOTTOM CHORD PANEL POINTS.



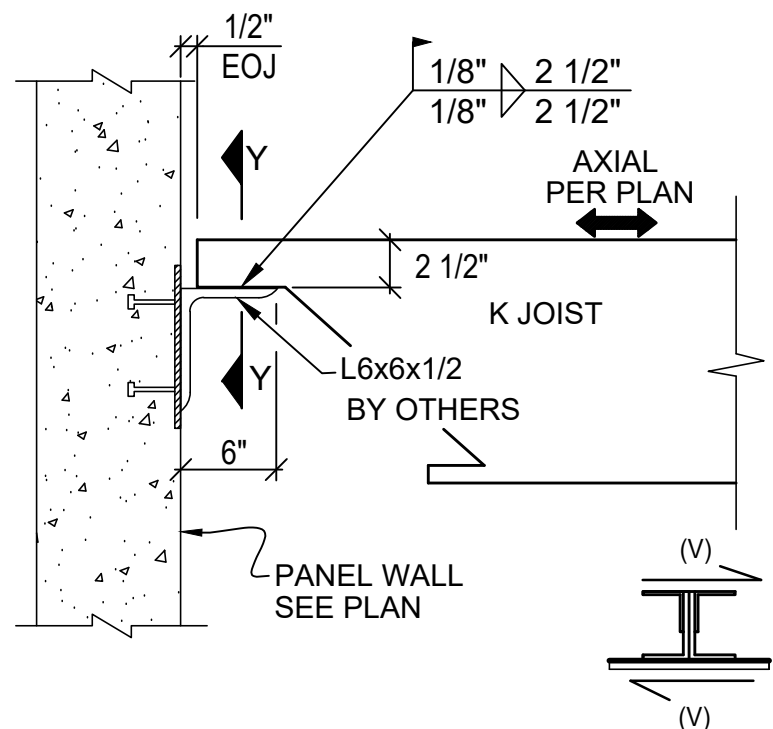
TYPICAL BRIDGING SPACING ALIGNED W/UPLIFT

NOTE: BRIDGING ROW QUANTITY'S WILL VARY.
(SEE JOIST ERECTION PLANS FOR BRIDGING ROW REQUIREMENTS.)

BRIDGING LEGEND WITH ANGLE SIZE

	10 SETS 100	= CONTINUOUS ROW OF BOLTED-X BRIDGING. IDENTIFIED ON PLACEMENT PLAN BY MARKS 001 - 399
	800	= BOLTED HORIZONTAL BRIDGING, IDENTIFIED ON PLACEMENT PLAN BY MARKS 800 - 899
	400	= WELDED-X BRIDGING, IDENTIFIED ON PLACEMENT PLAN BY MARKS 400 - 799
	H#	= CONTINUOUS ROW OF HORIZONTAL BRIDGING AT TOP AND BOTTOM CHORD, IDENTIFIED BY MARKS H1 - H6 ON PLACEMENT PLAN. REFERENCE TYPICAL BRIDGING SPACING DETAIL ON EACH PLACEMENT PLAN FOR SPACING REQUIREMENTS, UNLESS SPECIFIC LOCATIONS ARE SHOWN.
	U#	= CONTINUOUS ROW OF HORIZONTAL UPLIFT BRIDGING INSTALLED AT FIRST BOTTOM CHORD PANEL POINT, IDENTIFIED ON PLAN BY H1 - H6 (REFERENCE TYPICAL BRIDGING SPACING DETAIL ON ROOF PLACEMENT PLANS)
	900	= GIRDER BOTTOM CHORD BRACE, IDENTIFIED ON PLAN BY MARKS 900 - 999 (AFTER APPROVAL)

AXIAL TRANSFERS THRU SEAT

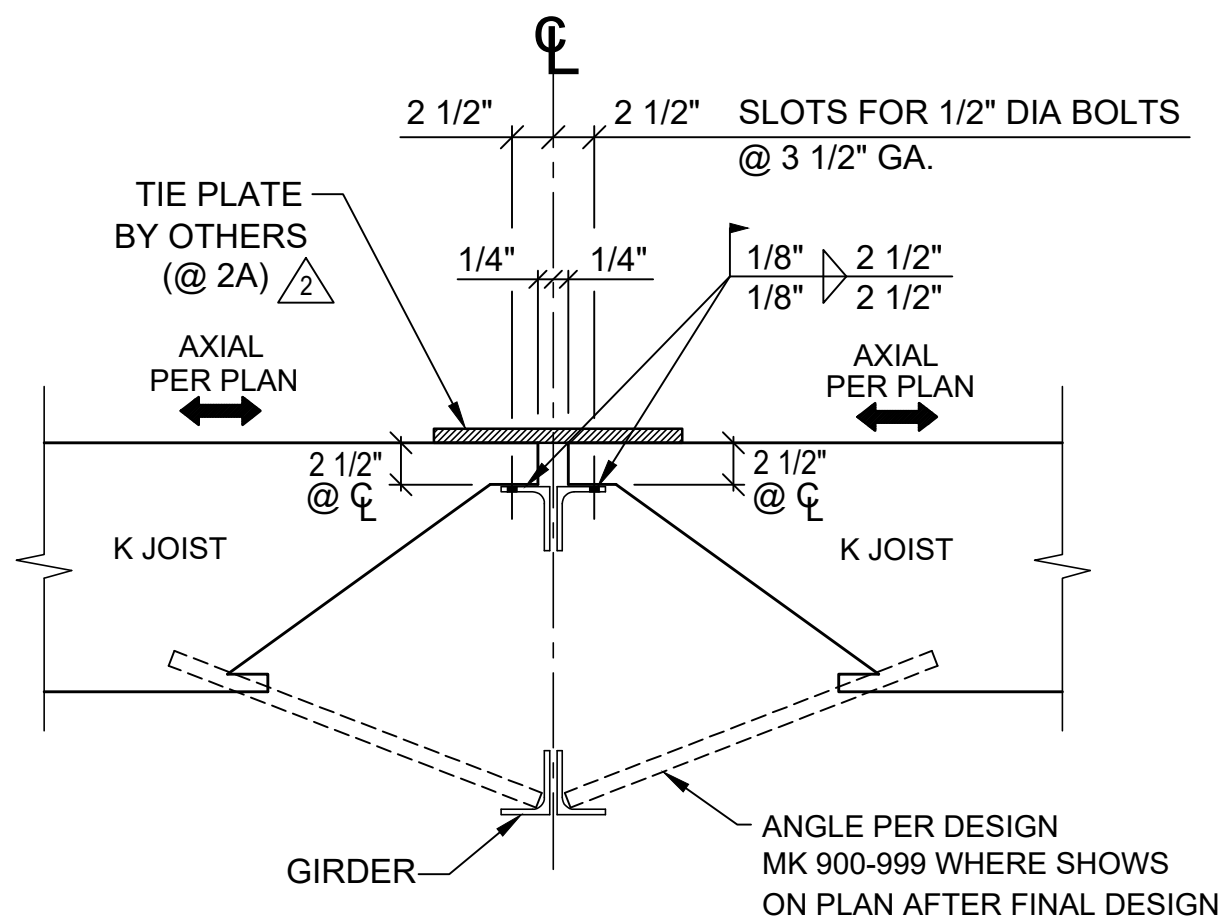


ROLLOVER FORCE TO EACH JOIST SEAT (V) = 0.2K (0.6W) ; 0.37K (0.7E)
VIEW-YY

JOIST SECTION 1

REF. : 1/S402
BOLTS BY OTHERS

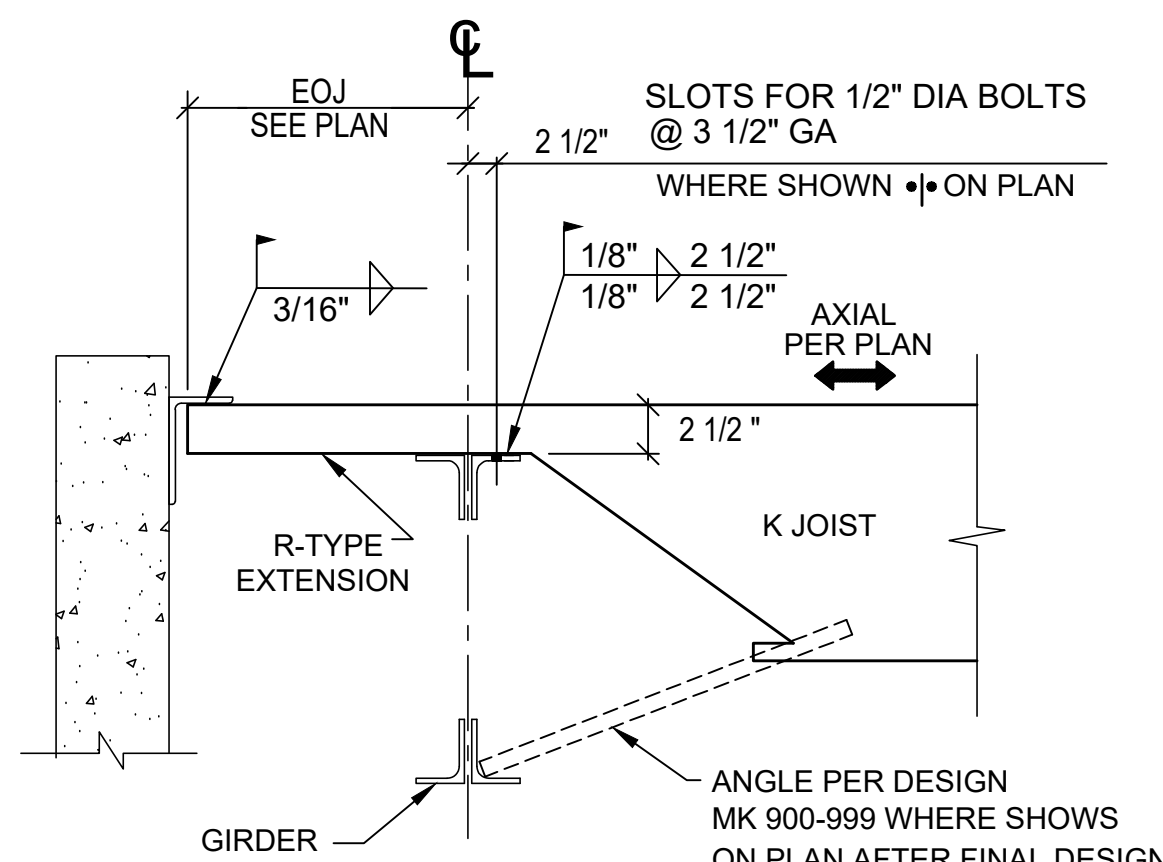
AXIAL TRANSFERS THRU PLATE



JOIST SECTION 2, 2A

REF. : 1/S401
BOLTS BY OMD

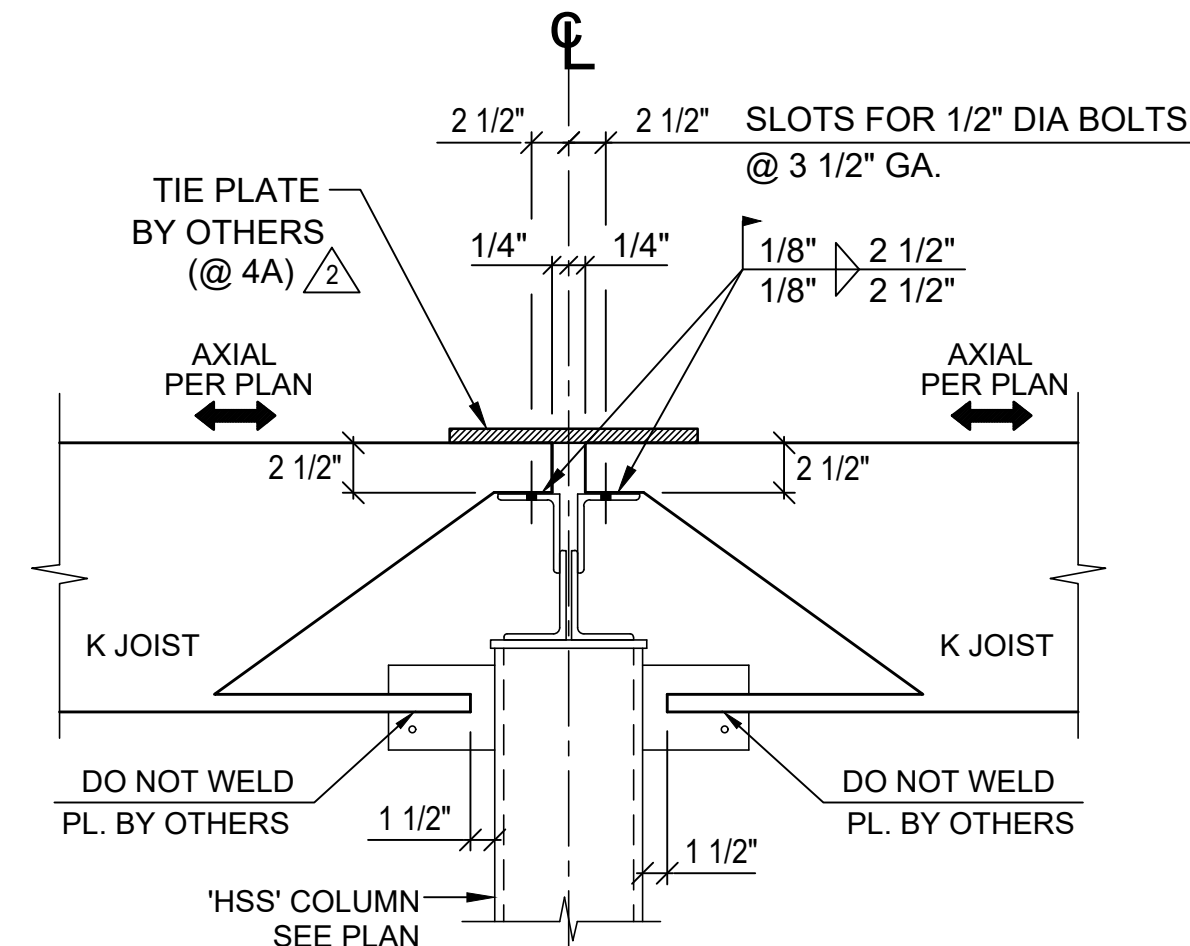
AXIAL TRANSFERS THRU SEAT



JOIST SECTION 3

REF. : 5/S402
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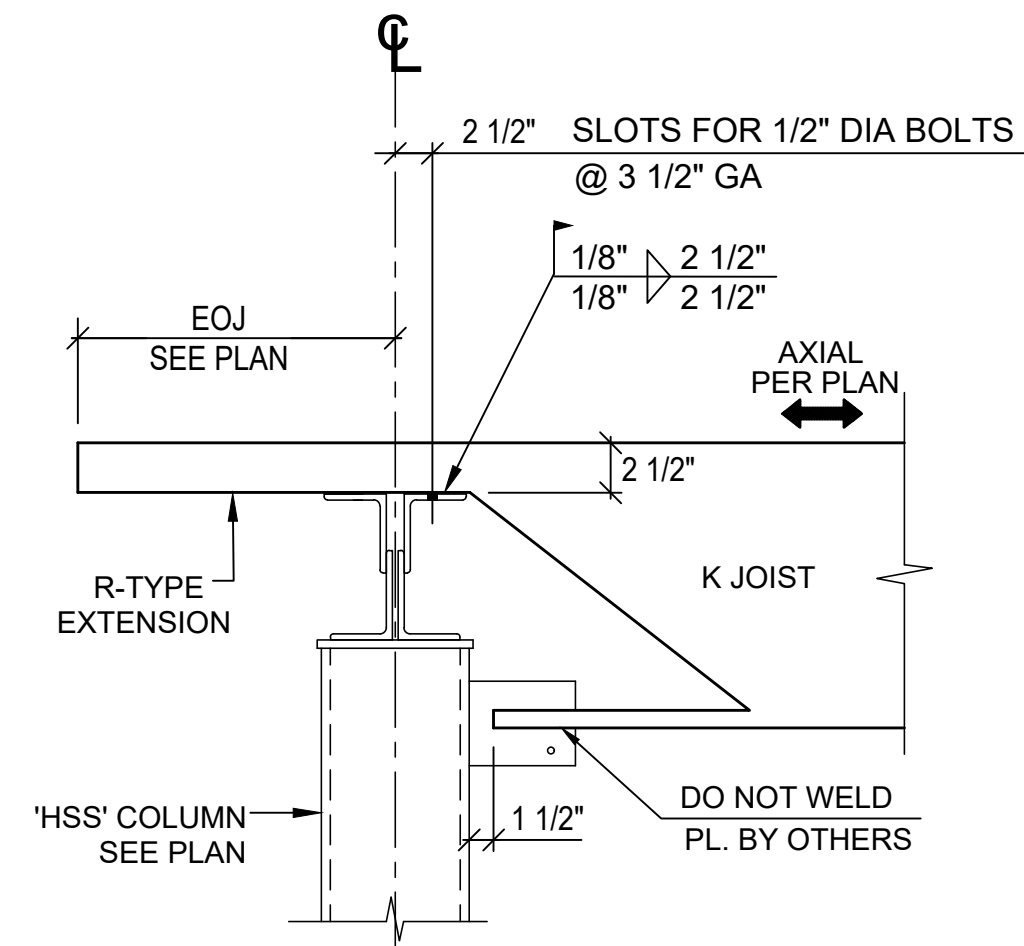
AXIAL TRANSFERS THRU PLATE



JOIST SECTION 4, 4A

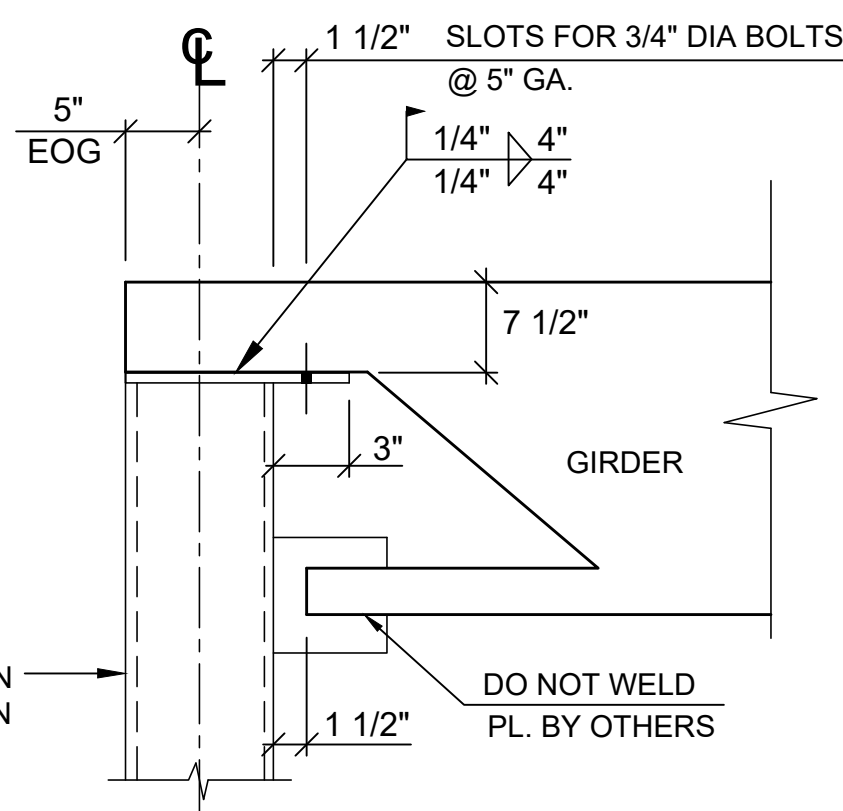
REF. : 2/S401
BOLTS BY OMD

AXIAL TRANSFERS THRU SEAT



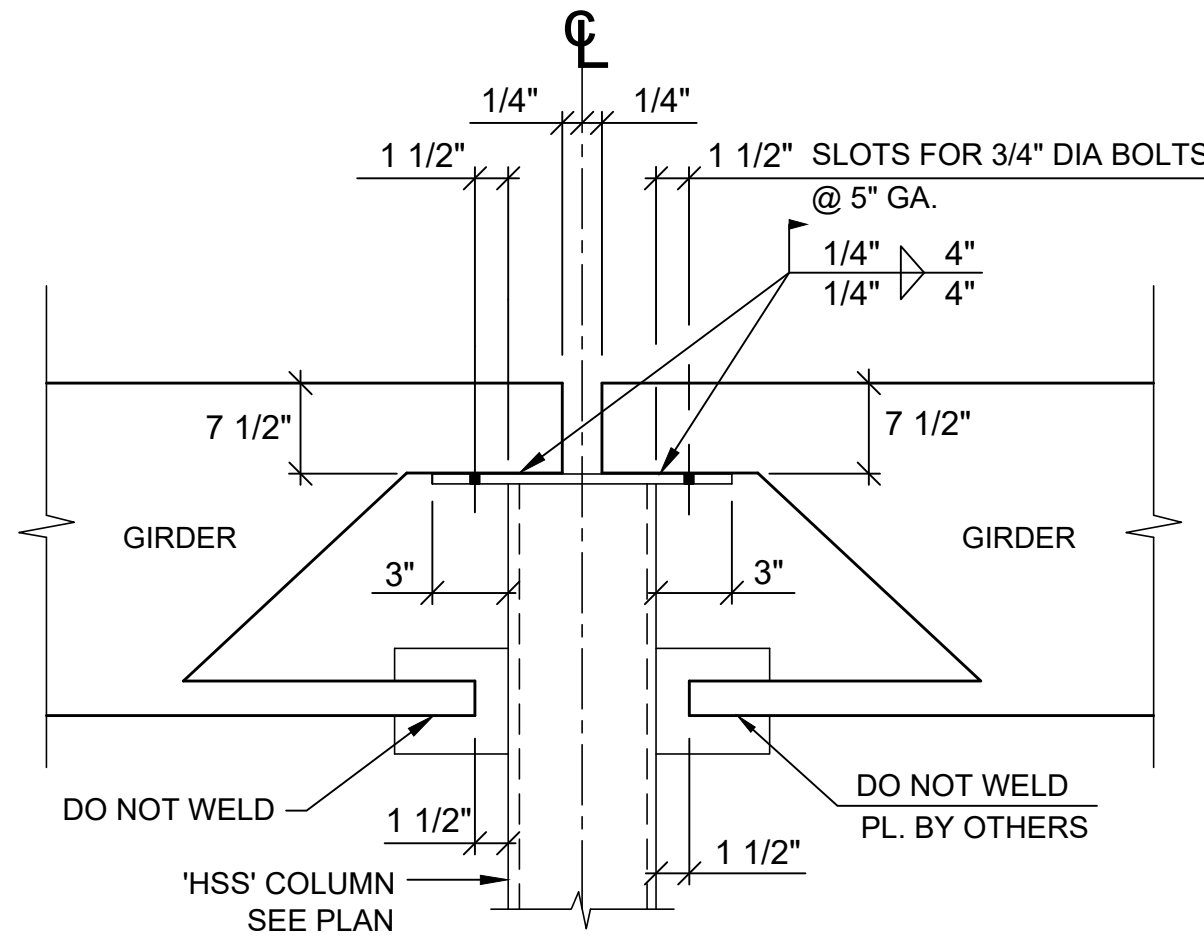
JOIST SECTION 5

REF. : 4/S402
BOLTS BY OMD



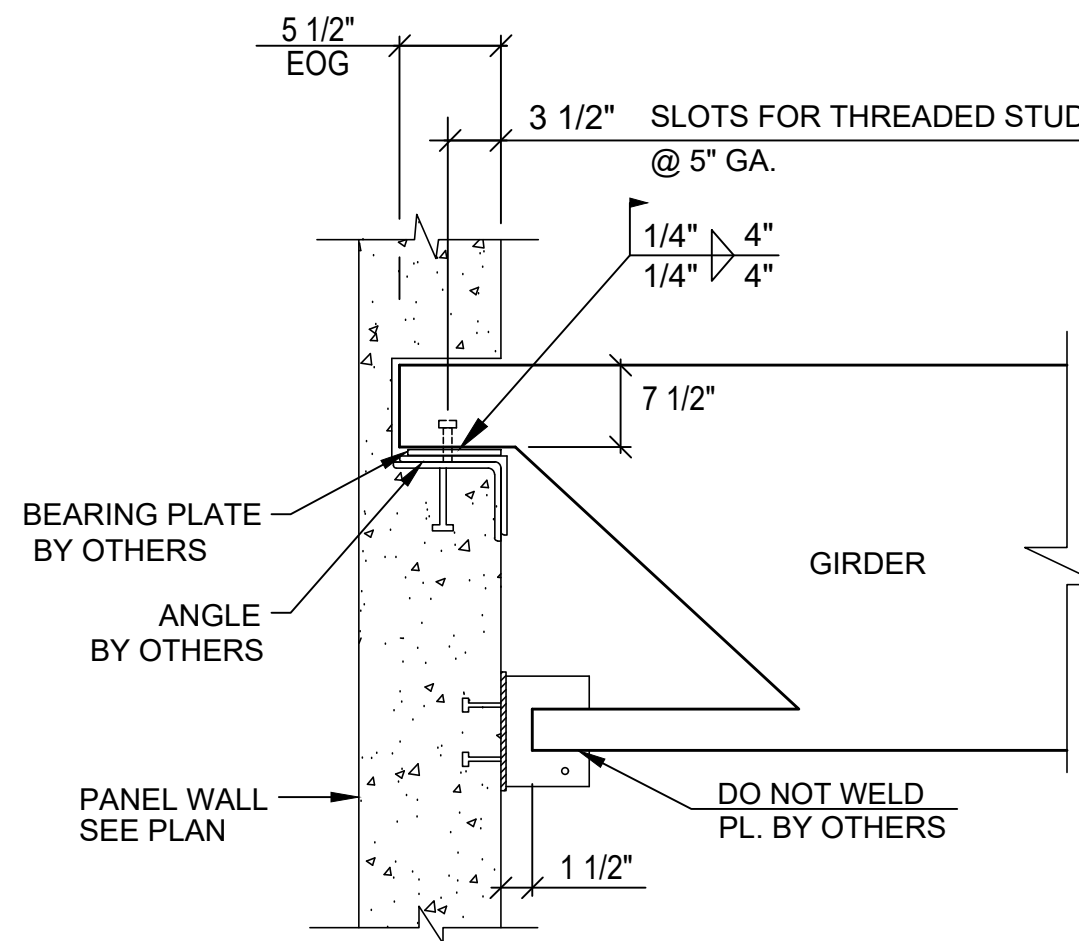
JOIST SECTION 6

REF. : 4/S402
BOLTS BY OTHERS



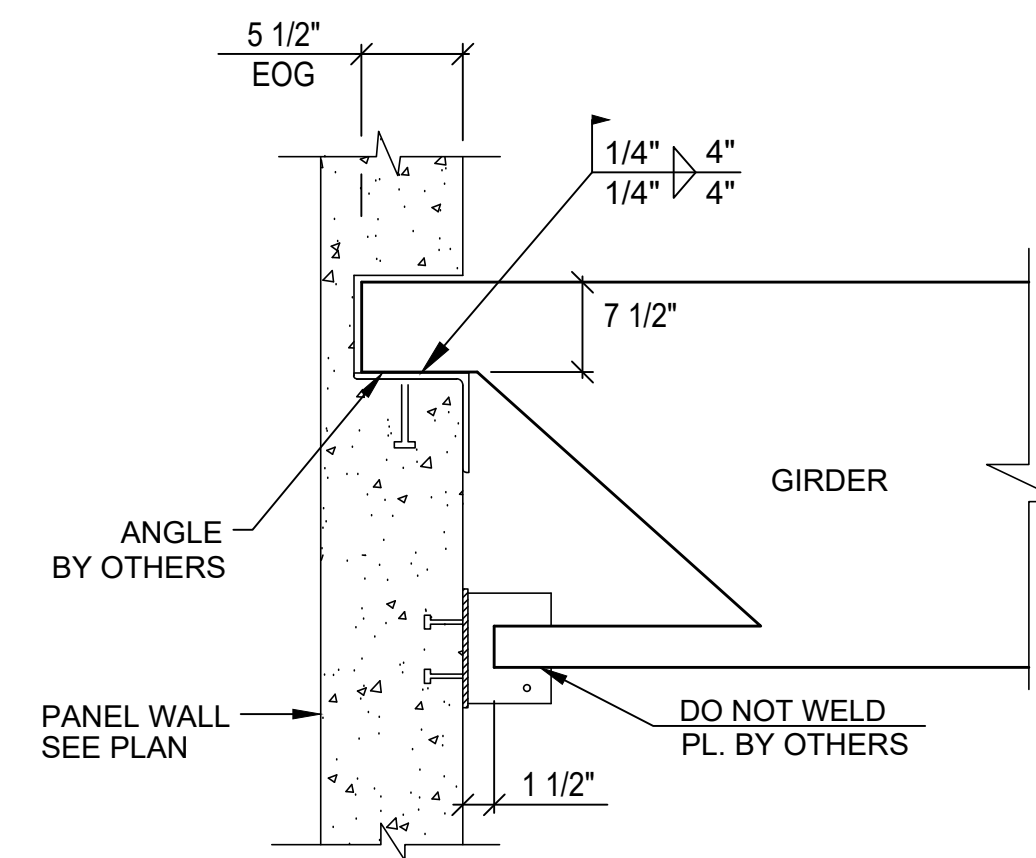
JOIST SECTION 7

REF. : 3/S401
BOLTS BY OTHERS



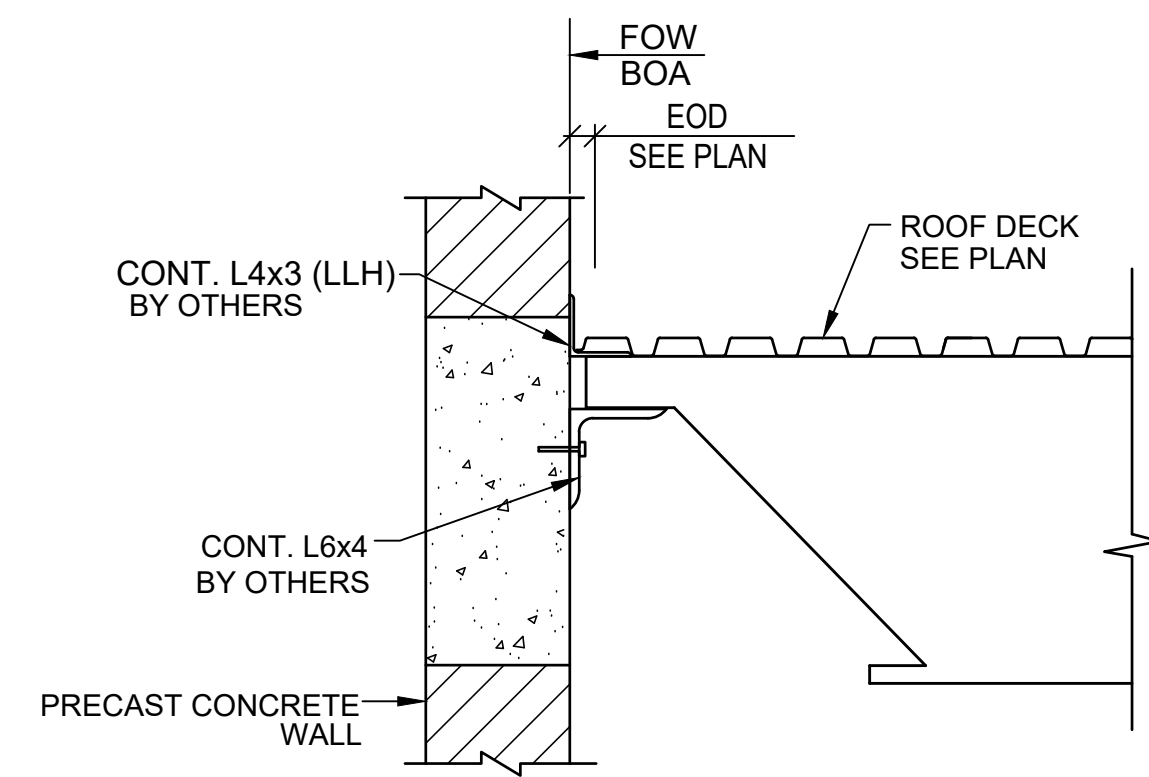
JOIST SECTION 8

REF. : SD5

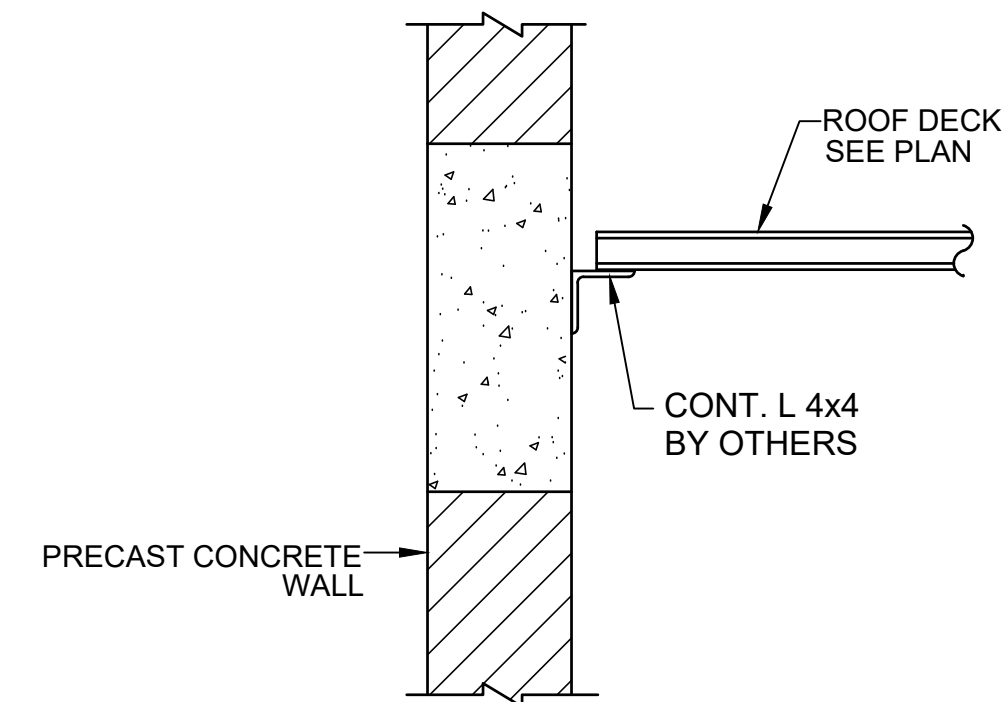


JOIST SECTION 9

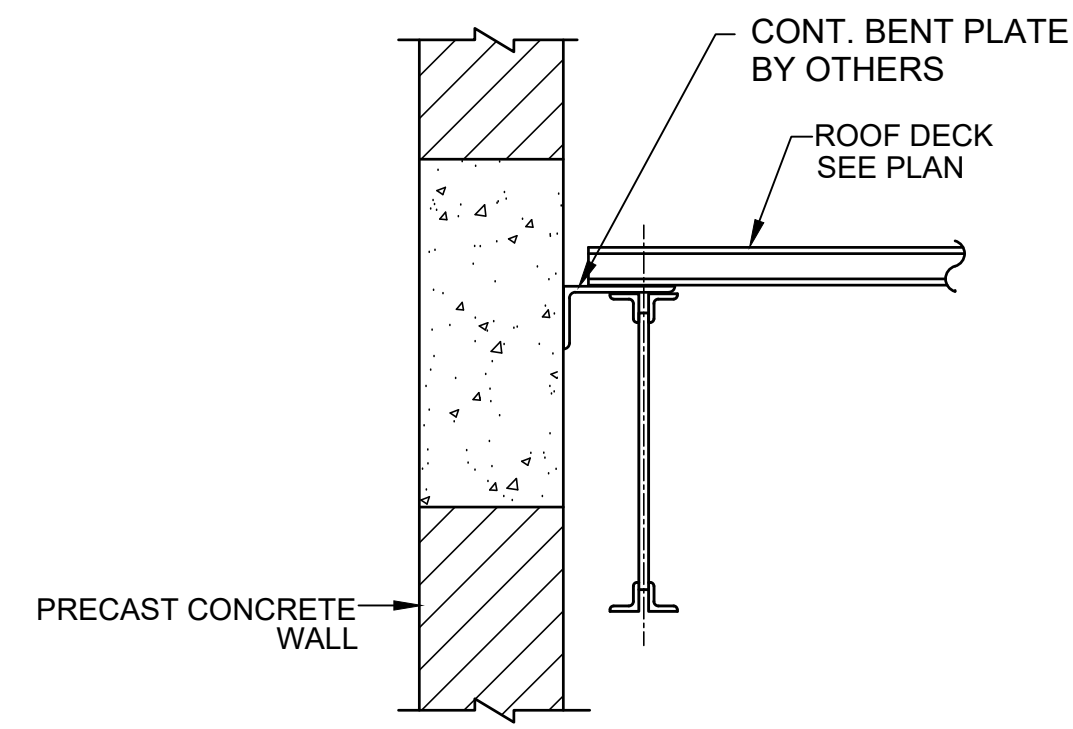
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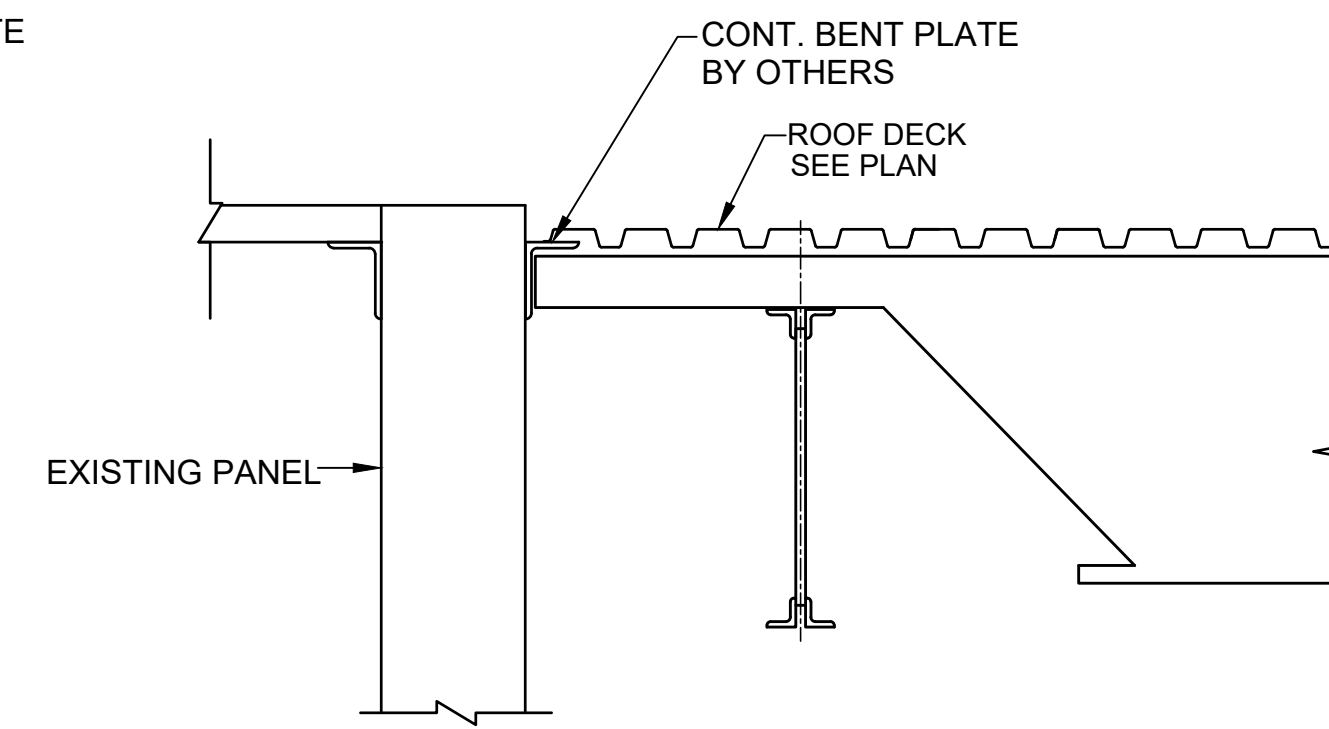
DECK SECTION 1
REF. : 1/S402



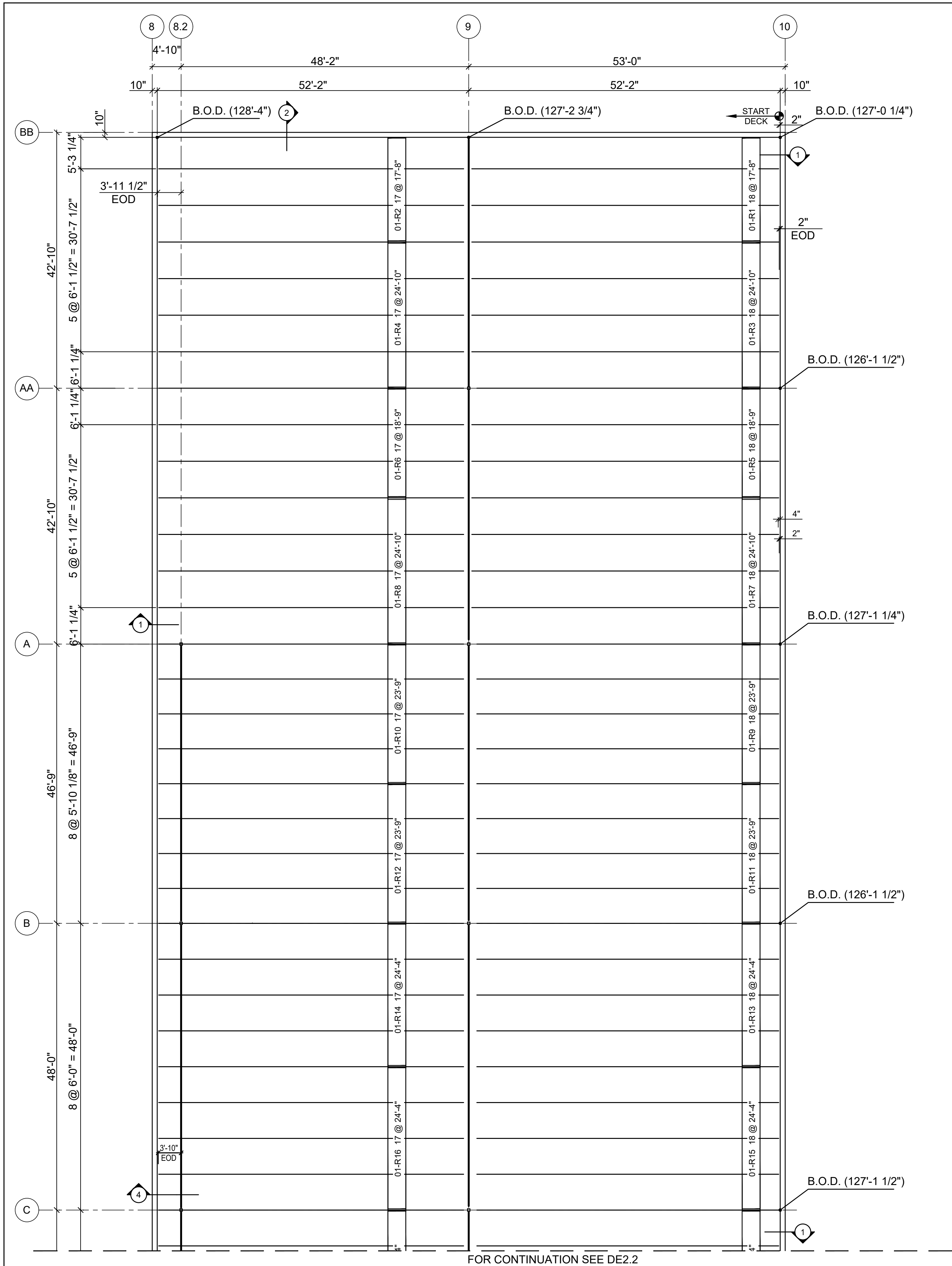
DECK SECTION 2
REF. : 2,3/S402



DECK SECTION 3
REF. : 6,7/S402



DECK SECTION 4
REF. : 4,5/S402



DECK GAGE & FINISH							
FM DECK	UL DECK	MARK	TYPE	GAGE	FINISH	Fy (KSI)	COVER
☐	☐	"R"	1.5"B	22	PAINTED GRY/ WHITE	50 KSI	36"

DECK FASTENER SCHEDULE

FASTENER PATTERN at SUPPORT:

36" COVERAGE
INDICATES ATTACHMENT
3/64" PATTERN

GENERAL NOTES:
ALLOWABLE CAPACITY FOR DIAPHRAGM ACTION IS IN ACCORDANCE TO SDI PUBLICATION "DIAPHRAGM DESIGN MANUAL". IN THE CASE OF MECHANICAL FASTENERS, THE ERECTION SHALL TAKE CARE IN THE SELECTION OF ELECTRODES AND AMPERAGE TO PROVIDE POSITIVE TIE TO THE SUPPORT WITHOUT CAUSING ANY HIGH AMPERAGE BLOW HOLES. WHEN SIDELAP SCREWS ARE SPEC, THE SPACING SHALL BE EQUALLY DISTANCED WITHOUT HAVING ANY SPACE GREATER THAN 30". MINIMUM SIZE SIDELAP SCREW SHALL BE #10 TEK.

BUILDING ZONE	PATTERN @ INTERMEDIATE SUPPORT	PATTERN @ PERIMETER SUPPORT	FASTENER TYPE @ SUPPORT	SIDELAP FASTENER
1.5"B	36/4	12" O.C.	HILTI X-HSN 24 @ JOIST (BY OTHERS) HILTI X-ENP-19 @ BEAM (BY OTHERS)	HILTI S-SLC (BY OLTHERS)

1) POUR STOP SHALL BE WELDED WITH 1" FILLET WELDS @ 12" O. C. MAX ACCORDING TO SDI WITH 2" MIN. BEARING.
2) ALL DECK ACCESSORIES OTHER THAN POUR STOPS SHALL ATTACHED BY EITHER TACK WELDING @ 24" O.C. MAX.

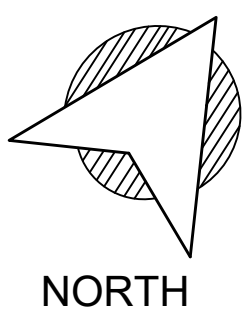
REMARKS:

DESIGN METHOD

ASD: ☒ LRFD: ☐ FACTORED: ☐

DECK SHEET LEGEND

BUNDLE NUMBER
SHEET QUANTITY
SHEET LENGTH
15-X10 40 @ 20'-10" DECK BOX
OR 15-X10 40 @ 20'-10" DECK ARROW
DECK TYPE LETTER
DIVISION/SEQUENCE



PARTIAL ROOF DECK LAYOUT PLAN

SEQ. #01D

REF. : S201

NOTES:

1. REFERENCE DWG DE1.1 FOR LEGEND, SYMBOLS & ABBREVIATIONS.
2. FOR DECK SECTIONS DE1.3 .



REF. : S201

1. REFERENCE DWG DE1.1 FOR LEGEND, SYMBOLS & ABBREVIATIONS.
2. FOR DECK SECTIONS DE1.3 .

DECK FASTENER SCHEDULE

FASTENER PATTERN AT SUPPORT:

GENERAL NOTES:

ALLOWABLE CAPACITY FOR DIAPHRAGM ACTION IS IN ACCORDANCE TO SDI PUBLICATION, "DIAPHRAGM DESIGN MANUAL." IN THE CASE OF MECHANICAL FASTENERS, THE ERECTION SHALL TAKE CARE IN THE SELECTION OF ELECTRODES AND ANCHORS TO PROVIDE POSITIVE TIE TO THE SUPPORT WITHOUT CAUSING ANY HIGH AMPERAGE BLOW HOPS. WHEN SIDELAP SCREWS ARE SPEC. THE SPACING SHALL BE EQUALLY DISTRIBUTED WITHOUT HAVING ANY SPACE GREATER THAN 30\"

BUILDING ZONE	PATTERN @ INTERMEDIATE SUPPORT	PATTERN @ PERIMETER SUPPORT	FASTENER TYPE @ SUPPORT	SIDELAP FASTENER
1.5'B	36/4	12\"	HILTI X-HSN 24 @ JOIST (BY OTHERS) HILTI X-ENP-19 @ BEAM (BY OTHERS)	HILTI S-SLC (BY OTHERS)

- POUR STOP SHALL BE WELDED WITH 1\"
- ALL DECK ACCESSORIES OTHER THAN POUR STOPS SHALL ATTACHED BY EITHER TACK WELDING @ 24\"

REMARKS:

DESIGN METHOD

ASD: ☒ LRFD: ☐ FACTORED: ☐

