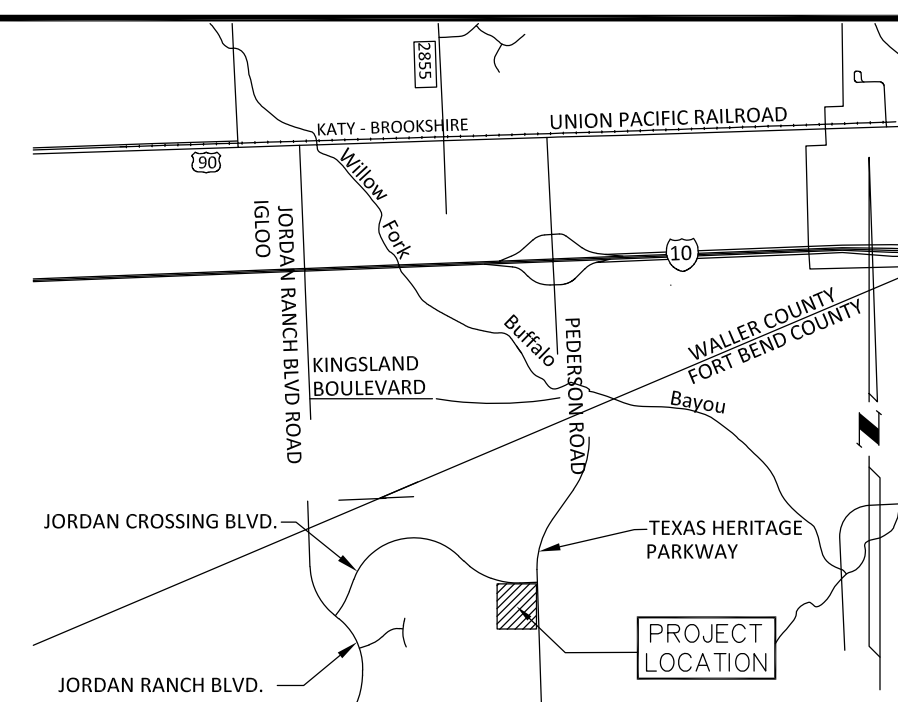


VICINITY MAP



SHOPS AT JORDAN CROSSING

RETAIL SHELL BUILDING B

29906 JORDAN CROSSING BLVD.
BROOKSHIRE, TX 77423 [FORT BEND COUNTY]



DRAWING INDEX	
SHEET #	DESCRIPTION
JE1.01	GENERAL NOTES & TYPICAL DETAILS
JE3.01	ROOF JOIST FRAMING PLAN
JE4.01	JOIST SECTIONS

AVAILABLE CONTRACT DRAWINGS	
DATE	DESCRIPTION
11/10/2023	S1, S1.1, S2, S3, S4, S5, S6, S7, S8, S9, S10, S11

JOIST ERECTION NOTES

REFER TO THE STEEL JOIST INSTITUTES (SJI) SPECIFICATIONS AND ITS TECHNICAL DIGEST (TD) 9

GC / ERECTOR NOTE:

DO NOT ERECT STEEL JOISTS WITHOUT OBTAINING A COPY AND THOROUGHLY READING THE SJI TO HANDLING AND ERECTION OF STEEL JOISTS AND JOIST GIRDERS. SERIOUS INJURY OR DEATH CAN RESULT FROM FAILURE TO FAMILIARIZE AND COMPLY WITH ALL APPLICABLE SAFETY REQUIREMENTS OF FEDERAL, STATE, AND LOCAL REGULATIONS AND THE SAFETY GUIDELINES OUTLINED IN THE SJI TO 9. THIS MANUAL IS INTENDED TO BE AN AID AND GENERAL GUIDE FOR THE SAFE AND PROP ERECTION OF STEEL JOIST PRODUCTS.

SJI TO 9 IS AVAILABLE FROM:

STEEL JOIST INSTITUTE
234 W. CHEVES STREET
FLORENCE, SC 29501

PHONE: 843-407-4091
FAX: 843-407-4044
WEB: WWW.STEELJOIST.ORG

JOIST DELIVERY AND UNLOADING:

- VERIFY QUANTITIES AND CONDITION OF JOISTS AND JOIST ACCESSORIES UPON ARRIVAL. INFO JOIST MANUFACTURER IMMEDIATELY OF ANY SHORTAGES, DISCREPANCIES OR DAMAGE.
- THE MATERIAL LISTED ON THE BILL OF LADING ARE THE ONLY ITEMS BEING SUPPLIED.
- WHEN UNLOADING JOISTS BY CRANE, ALWAYS HOIST JOISTS BY TOP OR BOTTOM CHORD PANE POINTS (NOT BY WEB MEMBERS), AT OR NEAR 1/3 POINTS.
- IF NOT ERECTED IMMEDIATELY, STORE JOISTS AND JOIST ACCESSORIES OFF THE GROUND AND KEEP THEM COVERED TO PROTECT THE PRIMER COATING.

JOIST INSTALLATION:

- FOLLOW ALL APPLICABLE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) FEDERAL REGISTER SUBPART R 1926. IMMEDIATELY AFTER JOIST IS SET, ATTACH JOIST TO SUPPORTS AS REQUIRED BY SJI AND OSHA. AS BRIDGING IS INSTALLED, REMOVE SNEEP IN THE JOIST AND CORRECT ANY VERTICAL MISALIGNMENT. ONCE THE BRIDGING IS INSTALLED, ATTACH JOISTS TO SUPPORTS PER FINAL ERECTION DRAWINGS.
- ONLY DRAWINGS HAVING A "FIELD USE" STAMP SHALL BE USED FOR ERECTION.
- REFER TO THE ERECTION SECTIONS FOR JOIST AND JOIST GIRDER END ANCHORAGE REQUIREMENTS. JOISTS, JOIST GIRDERS, AND ACCESSORIES SHALL BE ATTACHED TO STEEL SUPPORTS WITH A MINIMUM OF:

K-SERIES JOISTS – THE EQUIVALENT OF TWO 1/8" FILLET WELDS (W) 2 1/2" LONG (L), AND BOLTED WITH TWO 1/2" A307 BOLTS WHERE SLOTS ARE INDICATED IN SECTION. **LH-SERIES JOISTS, SECTION NUMBERS 02 THRU 08** – THE EQUIVALENT OF TWO 3/16" FILLET WELDS (W) 2 1/2" LONG (L), AND BOLTED WITH TWO 3/4" A307 BOLTS WHERE SLOTS ARE INDICATED IN SECTION. **DLH-SERIES & DLH-SERIES JOISTS, SECTION NUMBERS 07 THRU 17** – THE EQUIVALENT OF TWO 1/4" FILLET WELDS (W) 2 1/2" LONG (L), AND BOLTED WITH TWO 3/4" A307 BOLTS WHERE SLOTS ARE INDICATED IN SECTION. **DLH-SERIES JOISTS, SECTION NUMBERS 18 THRU 25** – THE EQUIVALENT OF TWO 1/4" FILLET WELDS (W) 4" LONG (L), AND BOLTED WITH TWO 3/4" A325 BOLTS WHERE SLOTS ARE INDICATED IN SECTION. **JOIST GIRDERS** – THE EQUIVALENT OF TWO 1/4" FILLET WELDS (W) 2 1/2" LONG (L), AND BOLTED WITH TWO 3/4" A325 BOLTS WHERE SLOTS ARE INDICATED IN SECTION. **BRIDGING** – THE EQUIVALENT OF A 1/8" FILLET WELD (W) 1" LONG (L), WITH THE EXCEPTION OF BOLTING, FOR K-SERIES JOISTS. THE EQUIVALENT OF A 1/8" FILLET WELD (W) 1" LONG (L), WITH THE EXCEPTION OF BOLTING, FOR LH-SERIES & DLH-SERIES JOISTS, SECTION NUMBERS 02 THRU 15. THE EQUIVALENT OF A 1/8" FILLET WELD (W) 1 1/2" LONG (L), WITH THE EXCEPTION OF BOLTING, FOR DLH-SERIES JOISTS, SECTION NUMBERS 16 THRU 20. THE EQUIVALENT OF A 1/8" FILLET WELD (W) 2 1/4" LONG (L), WITH THE EXCEPTION OF BOLTING, FOR DLH-SERIES JOISTS, SECTION NUMBERS 21 THRU 25. **BOTTOM CHORD BRACES** – THE EQUIVALENT OF A * FILLET WELD (W) ** LONG (L). * = SAME AS BRACE ANGLE THICKNESS, ** = SAME AS BRACE ANGLE LEG LENGTH. DO NOT WELD BRACE TO JOIST GIRDER UNTIL ALL DEAD LOAD HAS BEEN APPLIED.

KEY: 

- ALL STEEL BEARING JOISTS IN BAYS 40'-0" AND MORE, ARE TO BOLTED TO SUPPORTS PER OSHA, UNLESS JOISTS ARE PRE-ASSEMBLED INTO PANELS.
 - ACCORDING TO SJI, BEARING PLATES SHALL BE LOCATED NO MORE THAN 1/2" FROM THE FACE OF MASONRY OR CONCRETE SUPPORTS. REFERENCE SJI SPECIFICATIONS FOR MINIMUM BEARING PLATE WIDTHS.
 - UNBRIDGED JOISTS MAY EXHIBIT SOME DEGREE OF INSTABILITY UNDER THE ERECTOR'S WEIGHT, THEREFORE, EXTREME CAUTION MUST BE EXERCISED, WHEN IT IS NECESSARY FOR THE ERECTOR TO CLIMB ON THE JOIST, REFER TO SJI AND OSHA REQUIREMENTS.
 - VERIFY THAT ALL BRIDGING IS COMPLETELY INSTALLED, WITH JOIST AND JOIST GIRDER ENDS PERMANENTLY ATTACHED, BEFORE APPLYING CONSTRUCTION LOADS TO JOIST.
 - ADEQUATE MEANS FOR DISTRIBUTING CONCENTRATED LOADS SHOULD BE PROVIDED SO THAT THE CAPACITY OF ANY JOIST IS NOT EXCEEDED.
 - JOIST CHORDS ARE NOT DESIGNED FOR BENDING DUE TO CONCENTRATED LOADS, UNO ON PLANS. EITHER PLACE LOADS AT JOIST PANEL POINTS OR SEE THE "FIELD INSTALLED WEB MEMBERS AT CONCENTRATED LOADS" DETAIL.
- O'DONNELL GENERAL NOTES:**
- NIC – NOT IN CONTRACT. UNO – UNLESS NOTED OTHERWISE.
 - TYPICAL PRIMER COATING, UNO ON PLANS:
STD. SHOP COAT GRAY PRIMER FOR ALL JOISTS, JOIST GIRDERS & JOIST ACCESSORIES. SHOP PRIMER COMPLIES WITH SSPC-PAINT 15 AND FS TT-P 636.
NOTE: SHOP PRIMER IS APPLIED BY DIPPING. COATING MAY NOT BE UNIFORM AND REQUIRE REMOVAL OF ACCUMULATIONS BEFORE FINISH COAT IS APPLIED.
 - WELDED HORIZONTAL BRIDGING IS SUPPLIED IN 25'-0" LENGTHS. FIELD CUT WELDED HORIZONTAL BRIDGING AS REQUIRED AND UTILIZE ALL DROP.
NOTE: WELDED BRIDGING IS TO BE EQUALLY SPACED BETWEEN SUPPORTS, UNO ON PLANS. DECK MUST BE POSITIVELY ATTACHED TO JOIST TOP CHORDS IN ACCORDANCE WITH DECK FASTENING REQUIREMENTS, TO PROVIDE LATERAL STABILITY, UNO ON PLANS.
 - JOISTS MARKED T.L. INDICATES TIE-JOISTS. THESE JOISTS ARE NOT DESIGNED TO SATISFY OSHA 29 CFR 1926.757 (c)(3). REFER TO "DANGER" TAG ON JOIST FOR ERECTION REQUIREMENTS.
 - DO NOT CUT AWAY ANY CHORDS OR WEBS.
 - PRODUCTS ARE FABRICATED TO MEET THE ERECTION REQUIREMENTS OF OSHA. FIELD COMPLIANCE WITH OSHA IS NECESSARY.

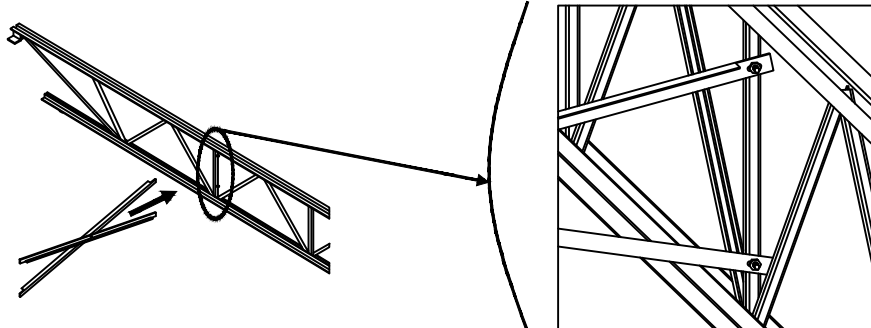
CONTRACT NOTE:

O'DONNELL WILL NOT ACCEPT THE RESPONSIBILITY OR CHARGES FOR ANY FIELD CORRECTIONSMADE WITHOUT PRIOR O'DONNELL APPROVAL.

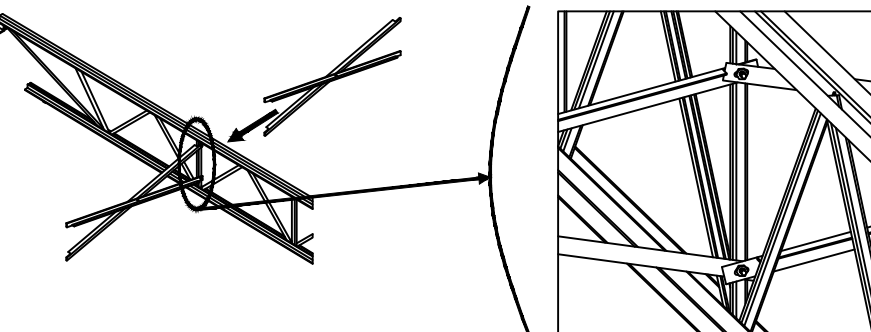
CROSS-BRIDGING STUDS SYSTEM

EACH CROSS-BRIDGING (X-BRDG) SET HAS TO BE INSTALLED AND BOLTED SEPARATELY.

STEP 1: INSTALL THE FIRST X-BRDG SET TO THE JOIST WITH TWO LOW PROFILE NUTS. (NO WASHERS ROD AT LOW PROFILE NUTS)

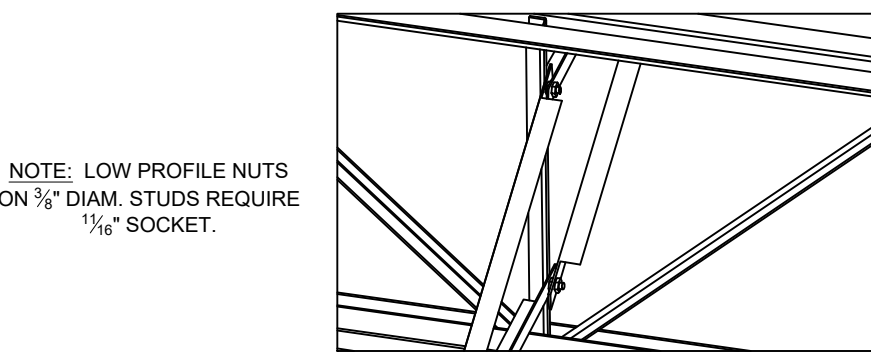


STEP 2: INSTALL THE SECOND X-BRDG SET ON THE OTHER SIDE OF THE JOIST WITH TWO ADDITIONAL LOW PROFILE NUTS (NO WASHERS ROD).

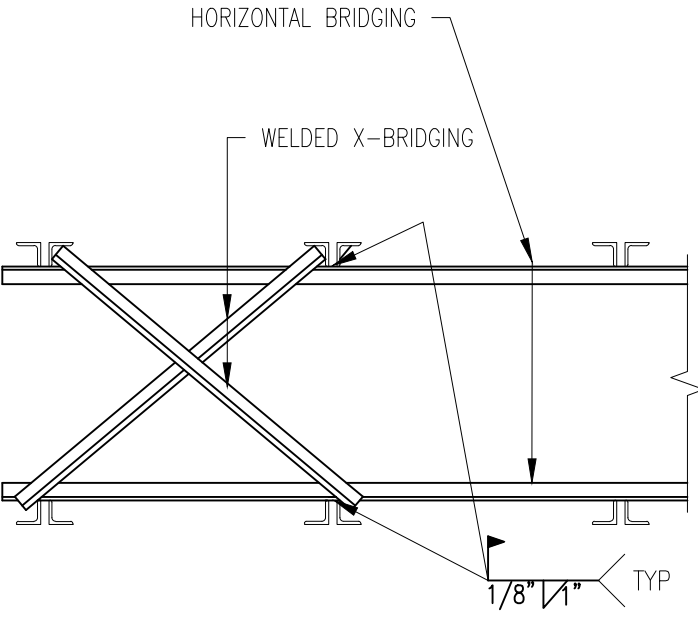


RESULT:

TWO BRDG PIECES ARE MAINTAINED AT EACH STUD WITH TWO SEPARATE LOW PROFILE NUTS. A CROSS-BRIDGING (X-BRDG) SET IS INSTALLED ON EITHER SIDE OF THE JOIST.



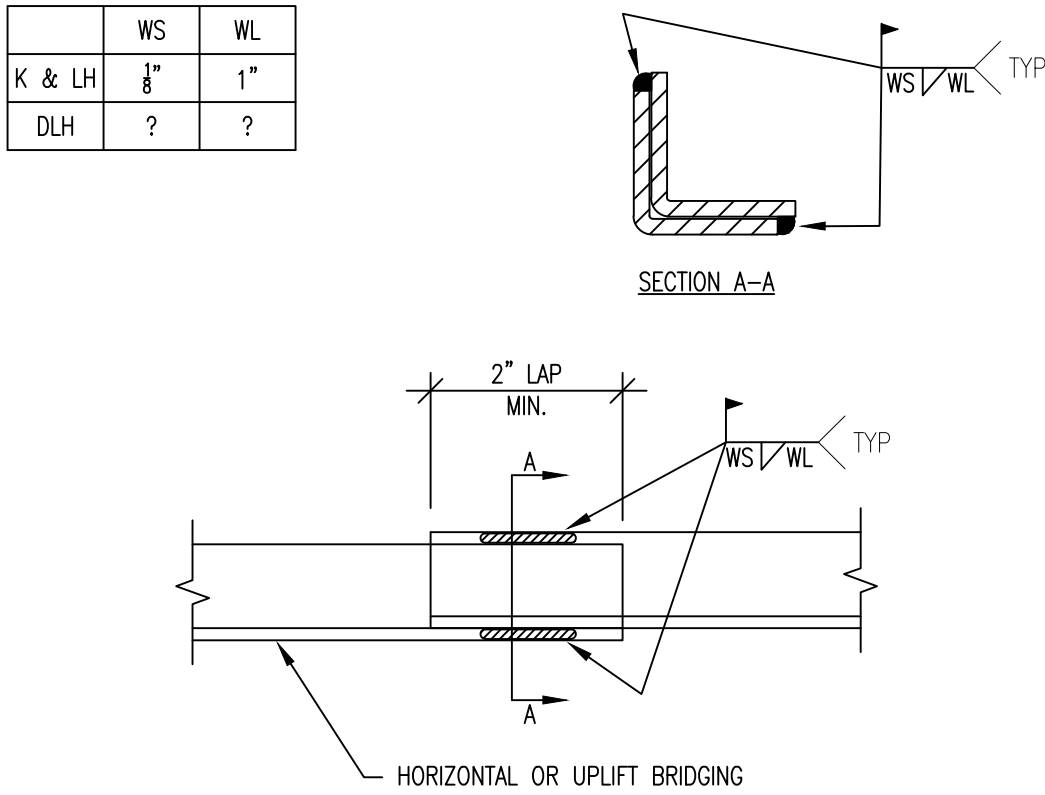
NOTE: LOW PROFILE NUTS ON 3/8" DIAM. STUDS REQUIRE 1 1/8" SOCKET.



CUT BRIDGING LENGTHS TO FIT AT END OF RUNS. WHEN REQUIRED INSTALL ALL DROPS, OBTAINED FROM CUTTING WITHIN SUBSEQUENT BRIDGING RUNS TO AVOID ANY POTENTIAL SHORTAGES OF BRIDGING MATERIAL. REFERENCE " TYPICAL CONNECTION DETAIL FOR: HORIZONTAL BRIDGING AT LAPS", FOR FURTHER INSTALLATION REQUIREMENTS.

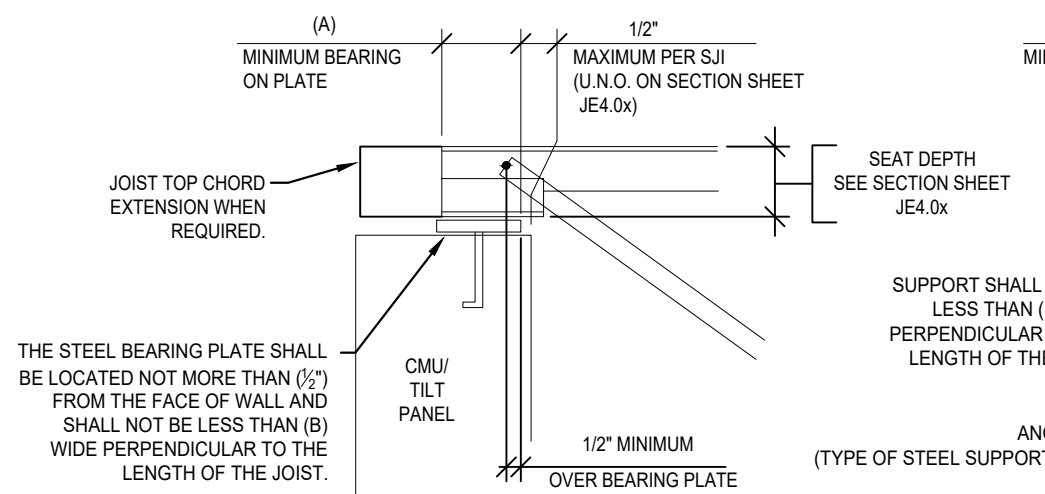
TYPICAL INSTALLATION DETAIL FOR: HORIZONTAL BRIDGING @ ROOF

REFERENCE: NOT PROVIDED



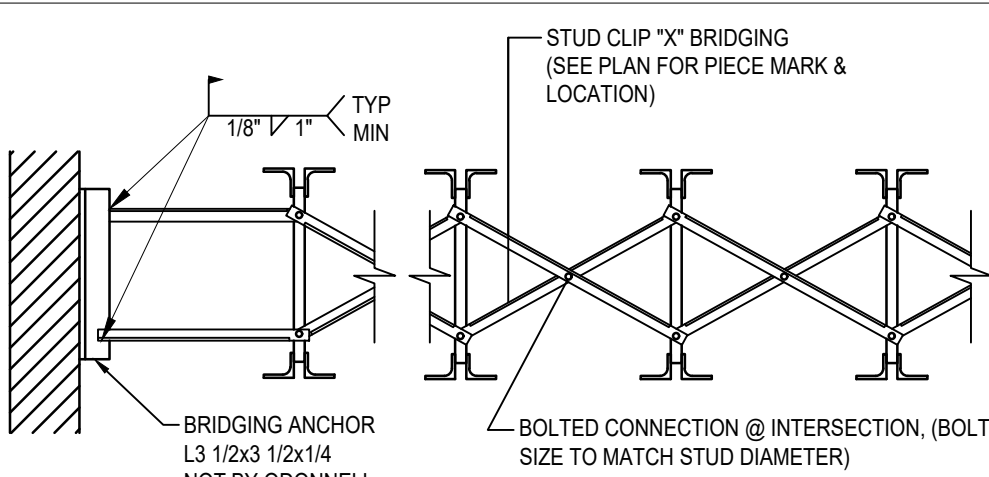
TYPICAL INSTALLATION DETAIL FOR: CONTINUOUS HORIZONTAL BRIDGING (LAP DETAIL)

KEY NOTE	K-SERIES & LH SERIES 02-06	LH SERIES 07-17	DLH-SERIES 18-25	CJ SERIES SEAT DEPTH ± 9"	JOIST GIRDERS
(A)	2"	4"	6"	4"	4"
*(B)	6"	9"	13"	9"	9"



MINIMUM JOIST BEARING DETAIL

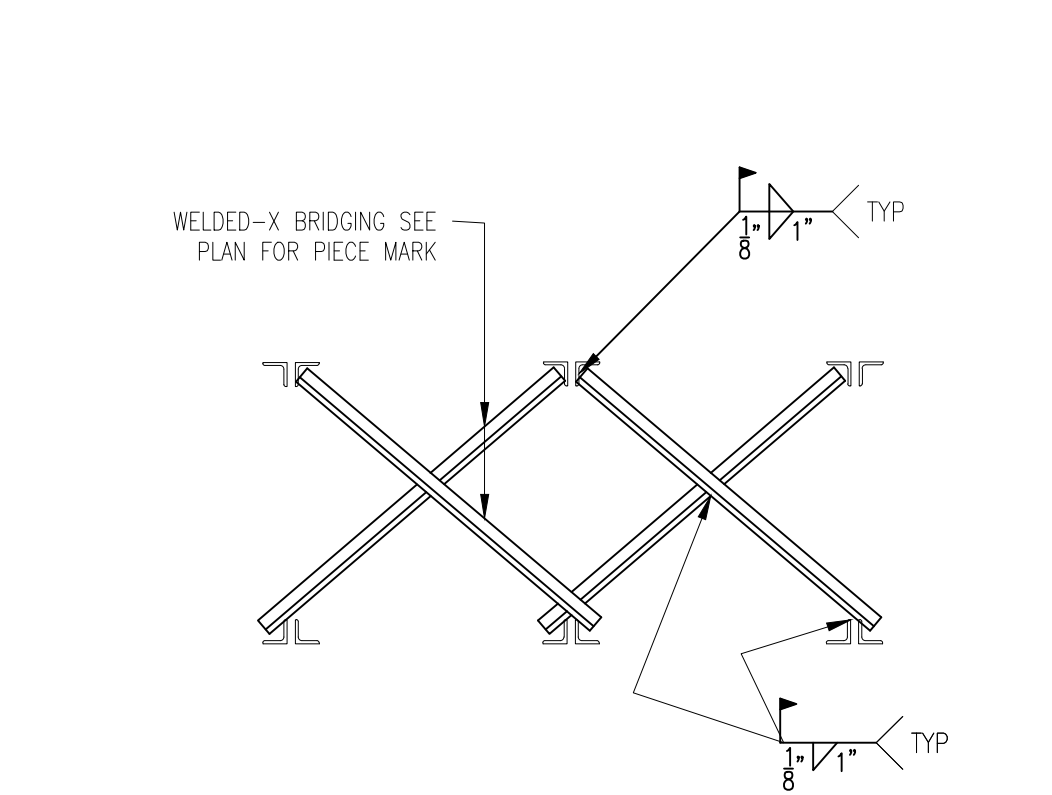
SEE THE PROJECT SPECIFIC SECTIONS WITHIN THIS SET FOR EXACT JOIST PLACEMENT. THIS SECTION CONVEYS THAT SJI MINIMUM BEARING LENGTHS AND TYPICAL WIDTH ALLOWANCES SHALL BE RESPECTED UNLESS SPECIFICALLY COORDINATED OTHERWISE WITH JOIST SUPPLIER.



TYPICAL CROSS BRIDGING ON STUD CLIP

NOTE: USE WASHERS EXCEPT UNDER FLANGED BOLT HEADS OR LOW PROFILE OVER-WIDTH NUTS.

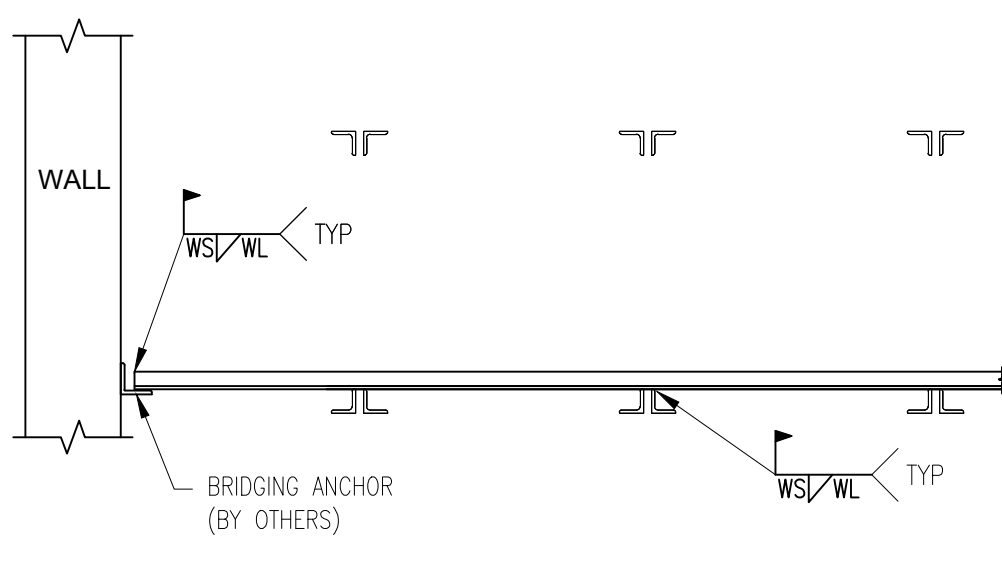
REFERENCE: NOT PROVIDED



TYPICAL INSTALLATION DETAIL FOR: WELDED DIAGONAL BRIDGING

REFERENCE: NOT PROVIDED

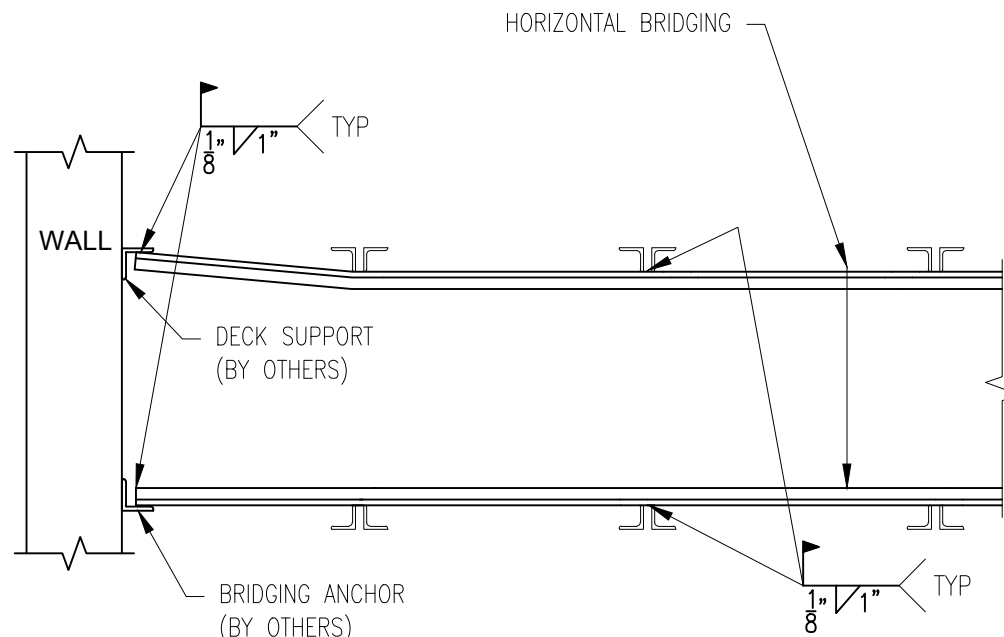
K	WS	WL
	8"	1"



CUT BRIDGING LENGTHS TO FIT AT END OF RUNS. WHEN REQUIRED INSTALL ALL DROPS, OBTAINED FROM CUTTING WITHIN SUBSEQUENT BRIDGING RUNS TO AVOID ANY POTENTIAL SHORTAGES OF BRIDGING MATERIAL. REFERENCE " TYPICAL CONNECTION DETAIL FOR: HORIZONTAL BRIDGING AT LAPS", FOR FURTHER INSTALLATION REQUIREMENTS.

TYPICAL INSTALLATION DETAIL FOR: UPLIFT BRIDGING

REFERENCE: NOT PROVIDED (AT ROOF ONLY)



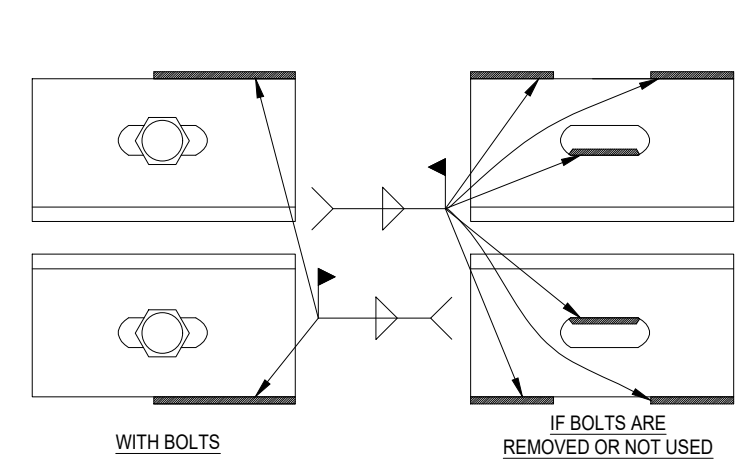
CUT BRIDGING LENGTHS TO FIT AT END OF RUNS. WHEN REQUIRED INSTALL ALL DROPS, OBTAINED FROM CUTTING WITHIN SUBSEQUENT BRIDGING RUNS TO AVOID ANY POTENTIAL SHORTAGES OF BRIDGING MATERIAL. REFERENCE " TYPICAL CONNECTION DETAIL FOR: HORIZONTAL BRIDGING AT LAPS", FOR FURTHER INSTALLATION REQUIREMENTS.

TYPICAL INSTALLATION DETAIL FOR: HORIZONTAL BRIDGING @ ROOF

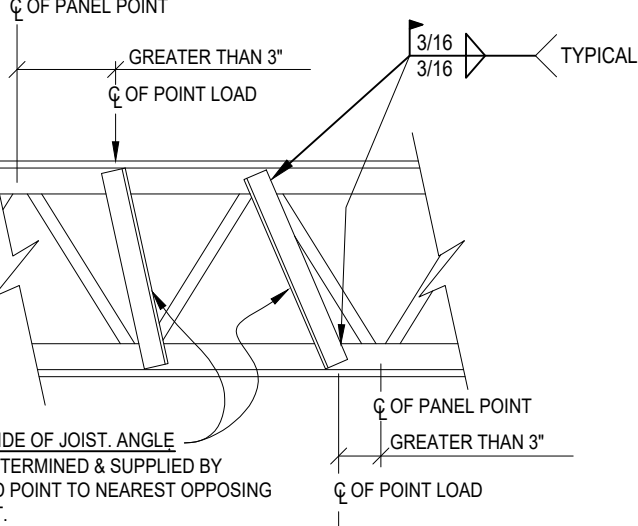
REFERENCE: NOT PROVIDED

ERECTOR NOTE:

JOIST SEATS FABRICATED TO ALLOW FOR BOLTED ANCHORAGE ALSO REQUIRE A FINAL WELDED CONNECTION, BUT THE BOLTS SHALL BE INSTALLED. IF BOLTS ARE NOT INSTALLED, AND IF PERMITTED BY THE EOR, THEN THE INSIDE EDGE OF THE SEAT SLOTS MUST BE WELDED, AS SHOWN. ADDITIONAL WELD AS REQUIRED TO MEET THE TOTAL SPECIFIED SHALL BE PLACED AT A LOCATION ON THE EDGE OF THE SEAT AWAY FROM THE OUTER EDGE OF THE SLOT.



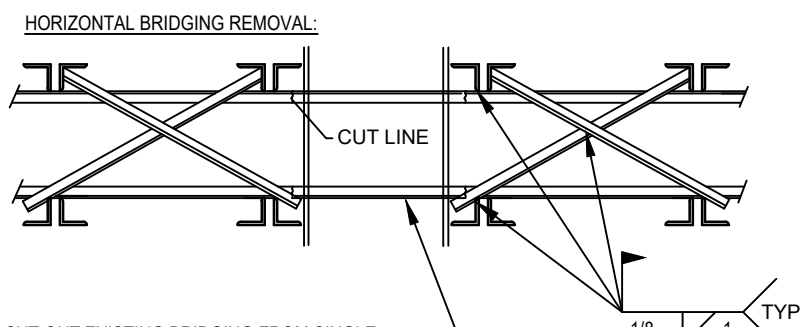
BOLTED JOIST CONNECTION DETAIL



FOR NOMINAL CONCENTRATED LOADS BETWEEN PANEL POINTS, WHICH HAVE BEEN ACCOUNTED FOR IN THE SPECIFIED UNIFORM DESIGN LOADS, A "STRUT" TO TRANSFER THE LOAD TO A PANEL POINT ON THE OPPOSITE CHORD SHALL NOT BE REQUIRED, PROVIDED THE SUM OF THE CONCENTRATED LOADS WITHIN A CHORD PANEL DOES NOT EXCEED 100 POUNDS AND THE ATTACHMENTS ARE CONCENTRIC TO THE CHORD.

TYPICAL INSTALLATION DETAIL FOR: JOIST REINFORCEMENT AT CONCENTRATED LOADS

REFERENCE: TYP. DETAIL/S11



CUT OUT EXISTING BRIDGING FROM SINGLE JOIST SPACE ONLY AND INSTALL NEW X-WELDED BRIDGING AT EACH TOP AND BOTTOM CHORD BRIDGING ROW LOCATION ON EACH SIDE OF OPENING AS SHOWN ABOVE. IF DECK IS IN PLACE, NEW X-WELDED BRIDGING IS ONLY REQUIRED AT BOTTOM CHORD BRIDGING LOCATIONS.

NOTE: X-WELDED BRIDGING SHOWN ABOVE IS NOT BY JOIST SUPPLIER.

BOLTED X-BRIDGING REMOVAL NOTE: AFTER JOIST ERECTION BOLTED X-BRIDGING MAY BE REMOVED FROM A SINGLE JOIST SPACING. IF BOLTED X-BRIDGING REMOVAL IS REQUIRED IN TWO CONSECUTIVE JOIST SPACINGS CONTACT JOIST SUPPLIER ENGINEER.

SINGLE JOIST SPACE DISCONTINUOUS BRIDGING PLACEMENT

DRAWING LEGEND

(00'-0") = ELEVATION
[BT] = SEAT DEPTH (WHEN NON-STANDARD)
◊<0.00 = AXIAL LOADS
[ES] = ERECTION STABILITY BRIDGING (MUST BE IN PLACE PRIOR TO RELASING/POSTING LINES)
●<0.00 = POINT LOAD - AMOUNT WRITTEN ABOVE THE LINE
• = MOMENT CONNECTION
+ = SPECIAL USE
[X] = DENOTES JOIST CONNECTION
[X] = DENOTES GIRDER CONNECTION
[X] = INDICATES X-WELDED BRIDGING TO BE PLACED AT FIRST BOTTOM CHORD PANEL POINTS. ALL OTHER X-WELDED ROWS TO BE EQUALLY SPACED BETWEEN THE FIRST BOTTOM CHORD PANEL POINTS.
- - - - - = ELEVATION CHANGE
• = MAY BE USED TO INDICATE BOLTED SEAT CONNECTION.

TC = TOP CHORD
BC = BOTTOM CHORD
EOG = END OF GIRDER
EOJ = END OF JOIST
JBE = JOIST BEARING ELEVATION
DT = DANGER JOIST - NOT DESIGNED TO SUPPORT AN EMPLOYEE WITHOUT BRIDGING INSTALLED. SEE ERECTOR NOTES FOR ADDITIONAL INFORMATION.
TJ = THE JOIST
TOJ = TOP OF JOIST
BOA = BACK OF ANGLE
BOC = BACK OF CHANNEL
FOW = FACE OF WALL
IFW = INSIDE FACE OF WALL
EJ = EXPANSION JOINT
VIF = VERIFY IN FIELD

FOR FIELD USE

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



HORIZONTAL BRIDGING TYP.
SEE LEGEND BELOW.

 = CONTINUOUS ROW OF BOLTED-X BRIDGING, IDENTIFIED ON PLACEMENT PLAN BY MARKS 001 - 399

- L 1 1/4x1 1/4x0.109

 = BOLTED HORIZONTAL BRIDGING, IDENTIFIED ON PLACEMENT PLAN BY MARKS 800 - 899

- L 1 1/4x1 1/4x0.109

 = WELDED-X BRIDGING, IDENTIFIED ON PLACEMENT PLAN BY MARKS 400 - 799

- L 1 1/4x1 1/4x0.109

 = 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.

- H2 = L 1 1/4x1 1/4x0.109

 = 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)

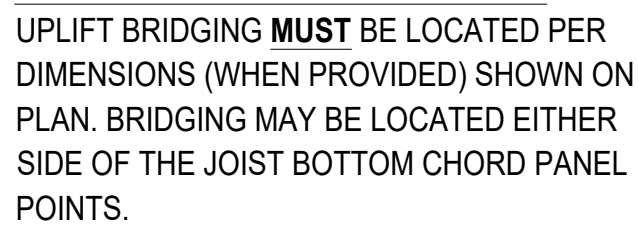
- H2 = L 1 1/4x1 1/4x0.109



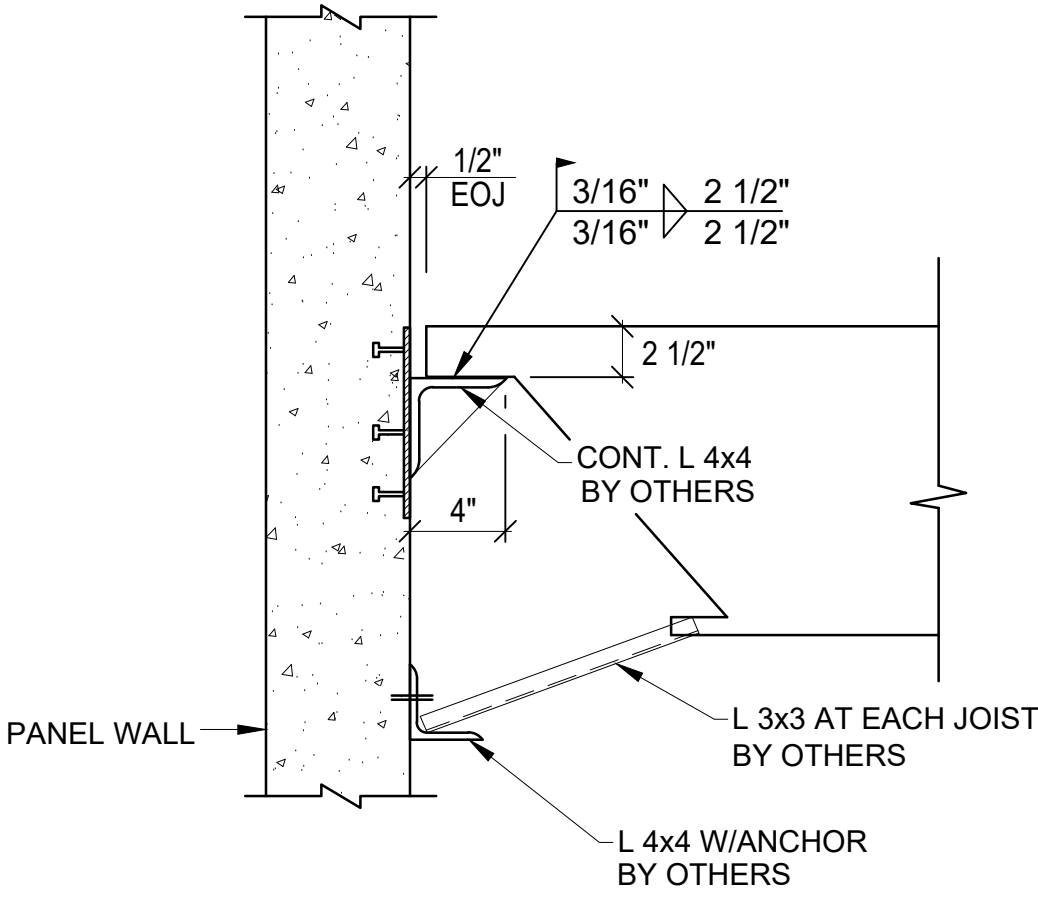
SEQ. #01J

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. ALL JOIST BEARING COLUMNS ARE HSS8x8 TYP.
4. FOR JOIST SECTIONS SEE JE4.01.

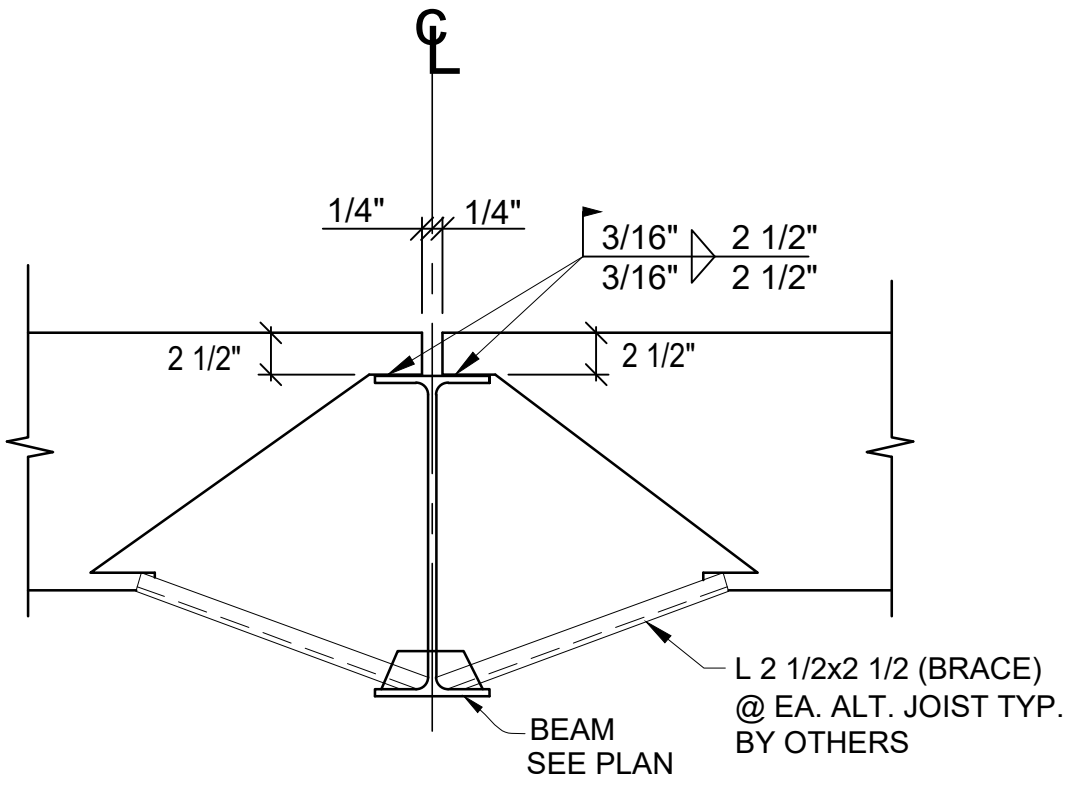
A SINGLE ROW OF HORIZONTAL BRIDGING LOCATED @ THE FIRST BOTTOM CHORD PANEL POINT @ EACH END. TYP. @ EACH JOIST SHOWN - - - - ON PLAN. THE UPLIFT BRIDGING SIZE IS THE SAME AS THE REGULAR BRIDGING SIZE FOR THAT BAY.



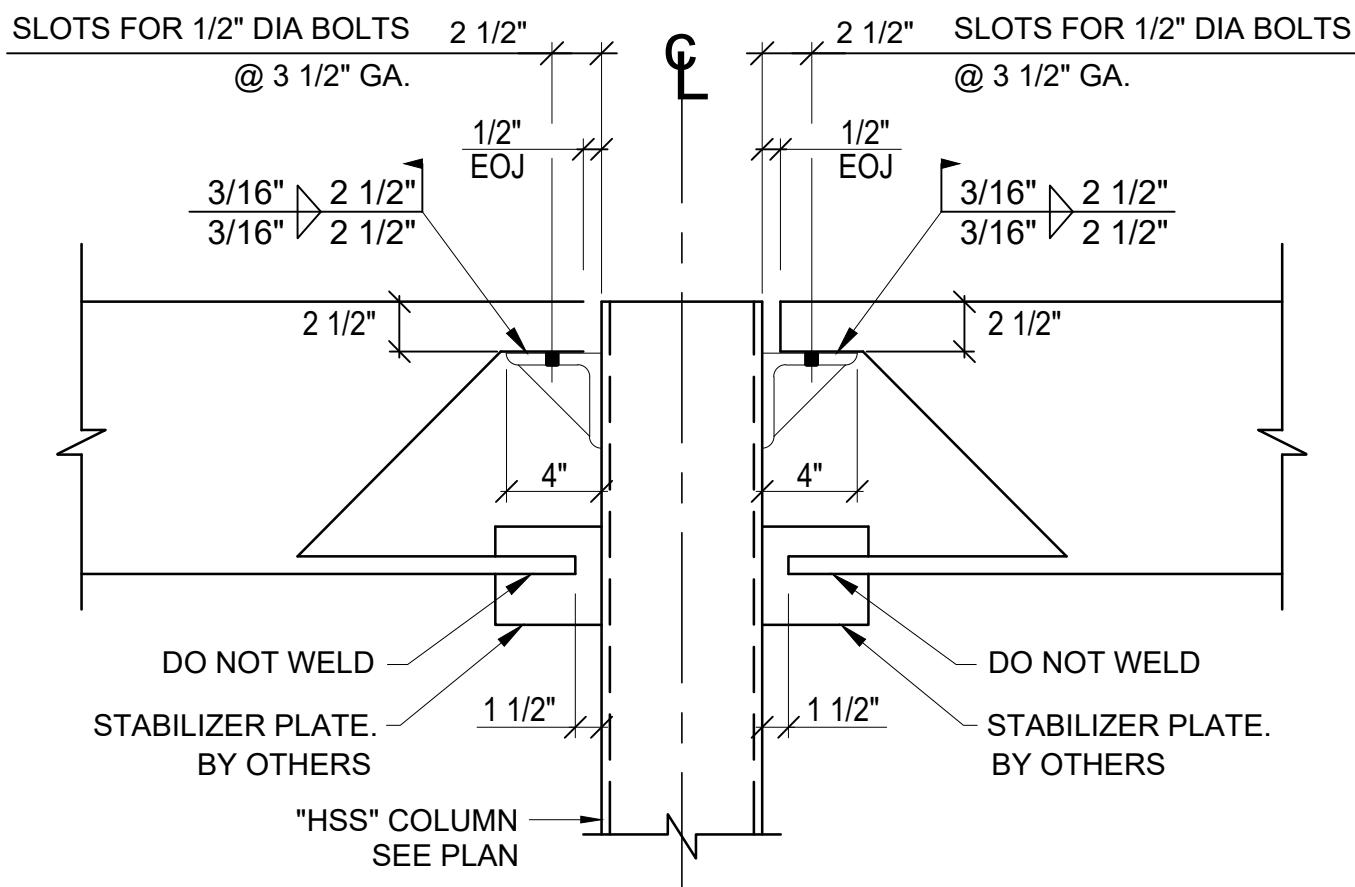
FOR FIELD USE



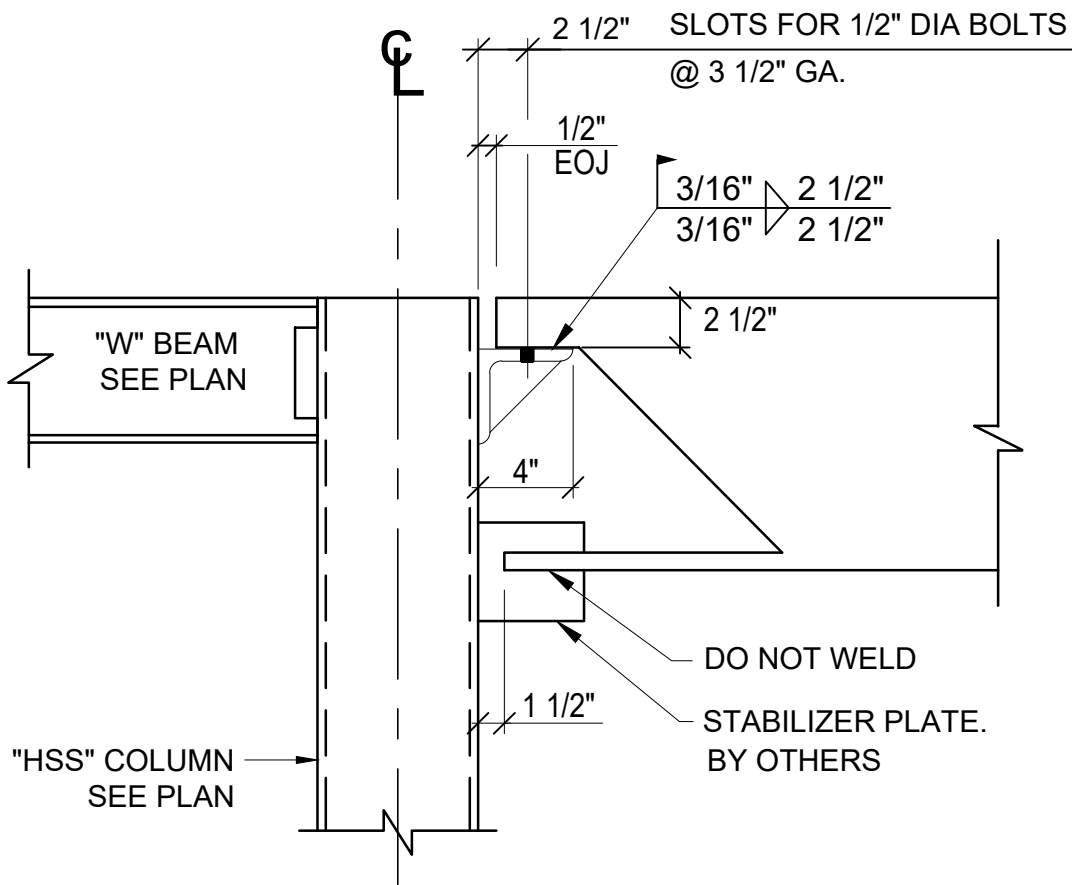
JOIST SECTION 1
REF. : 1, 2, 3/S4, 1/S5



JOIST SECTION 2
REF. : 1/S11

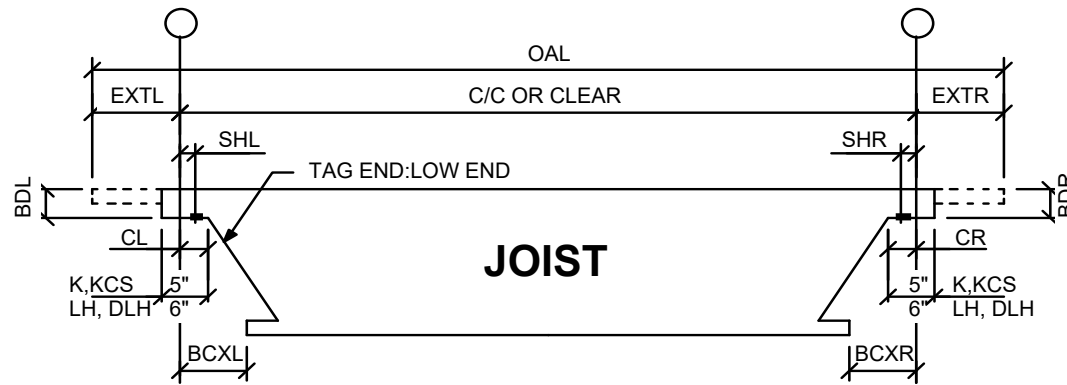


JOIST SECTION 3
BOLTS BY OTHERS
REF. : 4/S11



JOIST SECTION 4
BOLTS BY OTHERS
REF. : NOT PROVIDED

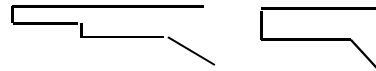
FOR FIELD USE



LENGTHS SHOWN ARE IN HORIZONTAL PROJECTION
DT= Danger Tag (per OSHA)

FL & FR = Type S, F & R
or dimension to end of
seats from center line.

Seat Standards UNLESS NOTED ON THE LIST
BDL,BDR: H & K = 2 1/2"
LH & DLH = 5"
Slots: H & K = 5/8", 3 1/2" Gage
LH & DLH = 7/8", 4" Gage

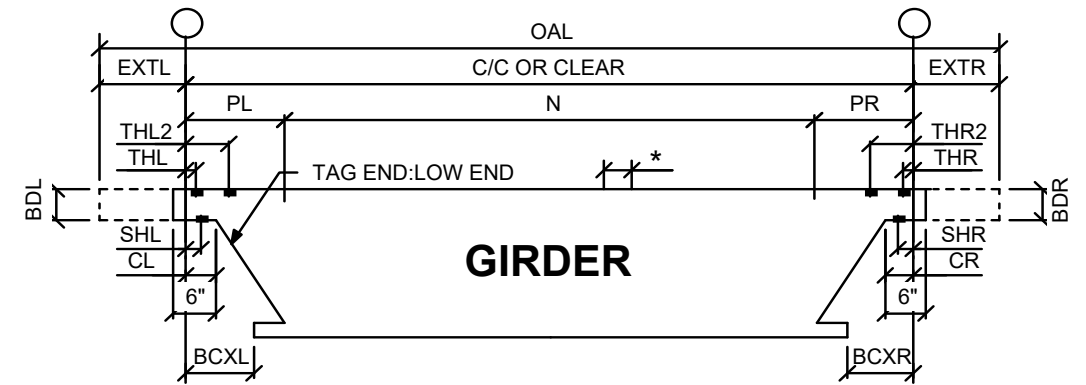


TYPE "S" EXT

TYPE "F" & "R" EXT

C/C or Clear = C/C of Grid or Inside Face of Wall
OAL Over All Length
N = Number of Joist Spacings

EXTL = **EX**tension **T**op **L**eft
CL = **C**learance **L**eft
BDL = **B**earing **D**epth **L**eft
SHL = **S**eat **H**oles **L**eft
BCXL = **B**ottom **C**hord **EX**tension **L**eft
THL = **T**op Chord **H**ole **L**eft (Girder)
THL2 = **T**op Chord **H**ole **L**eft **2**nd (Girder)
PL = **P**anel **L**eft (Girder)



LENGTHS SHOWN ARE IN HORIZONTAL PROJECTION

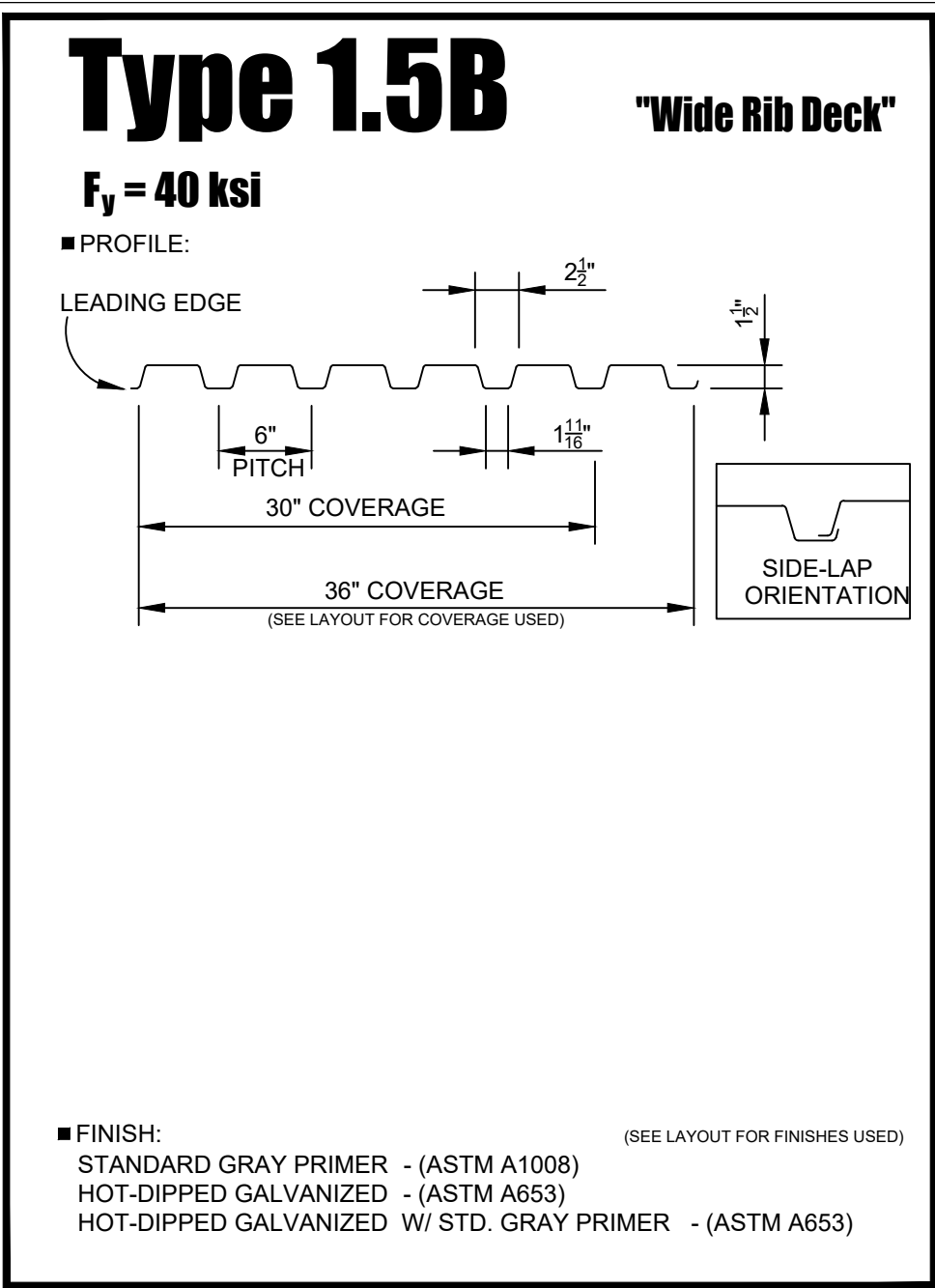
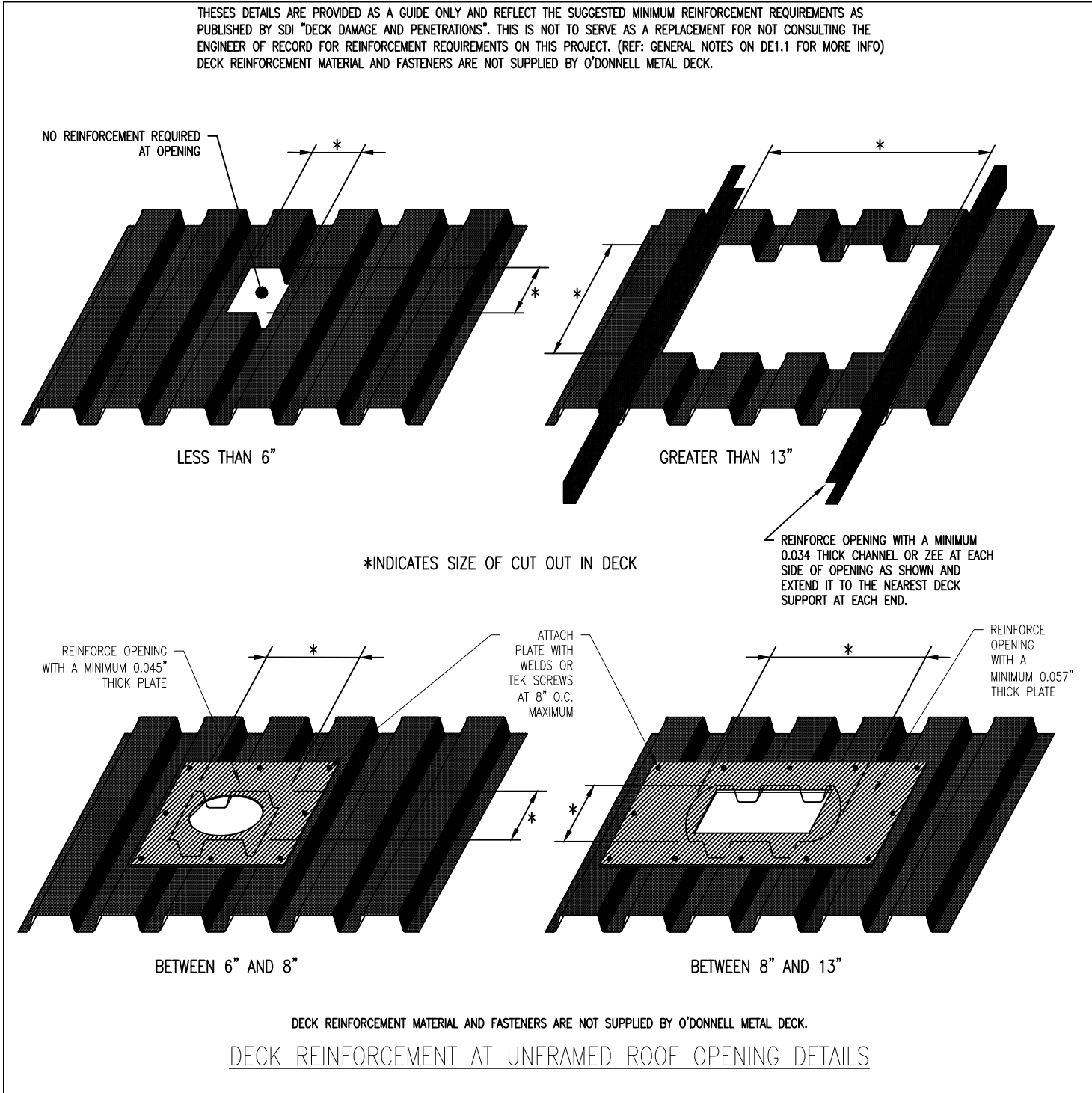
* OSHA JOIST TO GIRDER CONNECTION
WS= Welded Seats
NS= Joist Bolted on Near Side
FS= Joist Bolted on Far Side
BS= Joist Bolted on Both Sides

Seat Standards UNLESS NOTED ON THE LIST
BDL,BDR: = 7 1/2"
SLOTS: = 7/8", 5"
THL, THR = 5/8"Holes, 5" Gage
Holes for LH Series Must be Noted

EXTR = **EX**tension **T**op **R**ight
CR = **C**learance **R**ight
BDR = **B**earing **D**epth **R**ight
SHR = **S**eat **H**oles **R**ight
BCXR = **B**ottom **C**hord **EX**tension **R**ight
THR = **T**op Chord **H**ole **R**ight (Girder)
THR2 = **T**op Chord **H**ole **R**ight **2**nd (Girder)
PR = **P**anel **R**ight (Girder)

NOTES:				NET UPLIFT: 121 PLF																				
				ASD ☒ LRFD ☐ FACTORED ☐																				
SEQUENCE				QTY	MARK	TYPE	ELEV. SLOPE	EXTL	C/C OR CLEAR	EXTR	FL / TYPE	CL	FR/ TYPE	CR	BDL	BDR	SHL	SHR	BCXL	BCXR	OAL	NOTES		
1	2	3	4																					
34				34	J1	22K4		- 1/2"	36'-0 1/2"	- 1/4"	F	4"	F	5 1/4"	2 1/2"	2 1/2"					35'-11 3/4"	X1, 2		
7				7	J2	22KCS3		- 1/2"	36'-0 1/2"	- 1/4"	F	4"	F	5 1/4"	2 1/2"	2 1/2"					35'-11 3/4"	X1, 2		
7				7	TJ3	22KCS3		- 1/2"	36'-0 1/2"	-4 1/2"	F	4"	F	8"	2 1/2"	2 1/2"		6 1/2"		5 1/2"	35'-7 1/2"	X1, 3 (DT)		
1				1	TJ4	22K4		- 1/2"	36'-0 1/2"	-4 1/2"	F	4"	F	5 1/4"	2 1/2"	2 1/2"		6 1/2"		5 1/2"	35'-7 1/2"	X1, 3 (DT)		
11				11	J5	22K4		- 1/4"	33'-11 3/4"	- 1/2"	F	5 1/4"	F	4"	2 1/2"	2 1/2"					33'-11"	X2, 1		
1				1	TJ6	22K4		-4 1/2"	35'-11"	- 1/2"	F	8"	F	4"	2 1/2"	2 1/2"	6 1/2"		5 1/2"		35'-6"	X1, 3 (DT)		
25				25	J7	22K4		- 1/4"	35'-11"	- 1/2"	F	5 1/4"	F	4"	2 1/2"	2 1/2"					35'-10 1/4"	X1, 1		
3				3	J8	22KCS3		- 1/4"	35'-11"	- 1/2"	F	5 1/4"	F	4"	2 1/2"	2 1/2"					35'-10 1/4"	X1, 1		
1				1	TJ9	22K4		-4 1/2"	33'-11 3/4"	- 1/2"	F	8"	F	4"	2 1/2"	2 1/2"	6 1/2"		5 1/2"		33'-6 3/4"	X2, 3 (DT)		
2				2	TJ10	22KCS3		-4 1/2"	33'-11 3/4"	- 1/2"	F	8"	F	4"	2 1/2"	2 1/2"	6 1/2"		5 1/2"		33'-6 3/4"	X2, 3 (DT)		
2				2	J11	22KCS3		- 1/4"	33'-11 3/4"	- 1/2"	F	5 1/4"	F	4"	2 1/2"	2 1/2"					33'-11"	X2, 1		
94				94	TOTAL QTY		LAST SHOP ORDER YES ☒ NO ☐				PROJECT: PO#24-3827-SHOPS @ JORDAN BLDG B								PAINT: GRAY		REV #	DATE:		

[illegible]



DRAWING INDEX	
SHEET #	DESCRIPTION
DE1.1	ROOF DECK TYPICAL DETAILS & LEGEND
DE1.3	DECK SECTIONS
DE2.1	ROOF DECK LAYOUT PLAN

AVAILABLE CONTRACT DRAWINGS	
DATE	DESCRIPTION
11/10/2023	S1, S1.1, S2, S3, S4, S5, S6, S7, S8, S9, S10, S11

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LH-SERIES & DLH-SERIES JOISTS, SECTION NUMBERS 07 THRU 17 - THE EQUIVALENT OF TWO 1/4" FILLET WELDS (W) 2 1/2" LONG (L), AND BOLTED WITH TWO 3/4" A307 BOLTS WHERE SLOTS ARE INDICATED IN SECTION.

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THE EQUIVALENT OF A 1/8" FILLET WELD (W) 1 1/2" LONG (L), WITH THE EXCEPTION OF BOLTING, FOR DLH-SERIES JOISTS, SECTION NUMBERS 16 THRU 20.

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* = SAME AS BRACE ANGLE THICKNESS, ** = SAME AS BRACE ANGLE LEG LENGTH. DO NOT WELD BRACE TO JOIST GIRDER UNTIL ALL DEAD LOAD HAS BEEN APPLIED.

KEY:

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10. UNBRIDGED JOISTS MAY EXHIBIT SOME DEGREE OF INSTABILITY UNDER THE ERECTOR'S WEIGHT, THEREFORE, EXTREME CAUTION MUST BE EXERCISED, WHEN IT IS NECESSARY FOR THE ERECTOR TO CLIMB ON THE JOIST, REFER TO SJI AND OSHA REQUIREMENTS.
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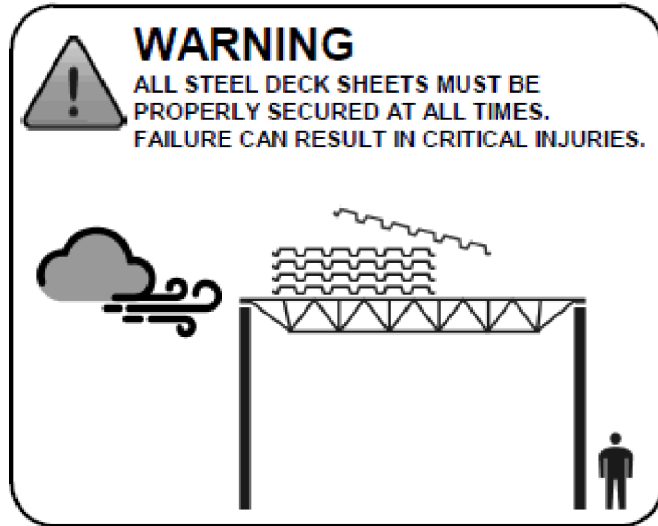
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16. WELDED HORIZONTAL BRIDGING IS SUPPLIED IN 25'-0" LENGTHS. FIELD CUT WELDED HORIZONTAL BRIDGING AS REQUIRED AND UTILIZE ALL DROP.
NOTE: WELDED BRIDGING IS TO BE EQUALLY SPACED BETWEEN SUPPORTS, UNO ON PLANS. DECK MUST BE POSITIVELY ATTACHED TO JOIST TOP CHORDS IN ACCORDANCE WITH DECK FASTENING REQUIREMENTS, TO PROVIDE LATERAL STABILITY, UNO ON PLANS.
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18. DO NOT CUT AWAY ANY CHORDS OR WEBS.
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CONTRACT NOTE:

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FOR FIELD USE

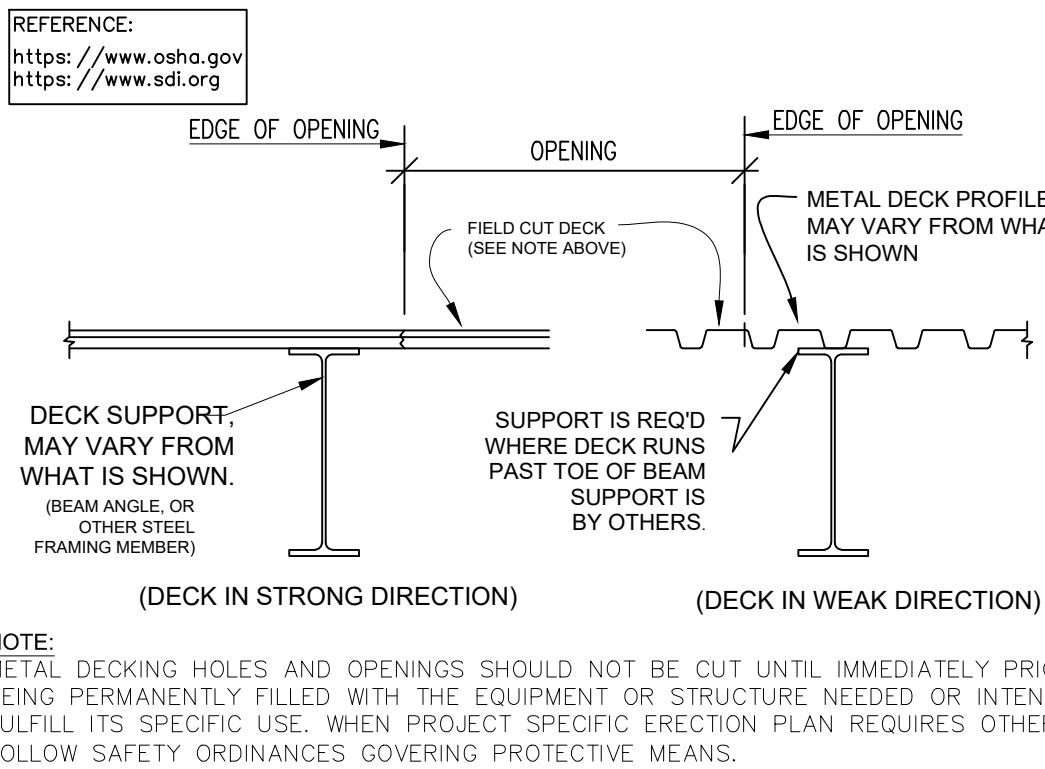


DECK LEGEND

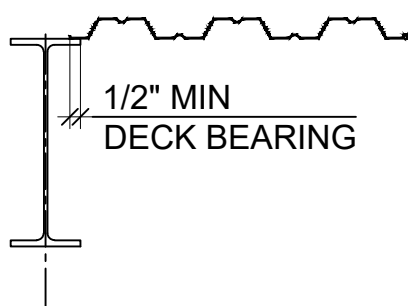
BOA	BACK OF ANGLE
BOC	BACK OF CHANNEL
BOD	BOTTOM OF DECK
BM	BEAM
C	CENTERLINE
COL	COLUMN
EOA	EDGE OF ACCESSORY
EOD	EDGE OF DECK
EPS	EDGE OF POURSTOP
FD	DIMENSION TO BE DETERMINED IN FIELD
IFOW	INSIDE FACE OF WALL
OFOW	OUTSIDE FACE OF WALL
JST	JOIST
HSS	HOLLOW STRUCTURAL STEEL
UNO	UNLESS NOTED OTHERWISE
VIF	VERIFY IN FIELD
	START DECK
	SUGGESTED ERECTION STARTING POINT
	FIELD CUTTING OF DECK REQUIRED
	TEMPORARY SHORING OF DECK REQUIRED (SHORING IS BY OTHERS NOT BY O'DONNELL METAL DECK)
1.5 - CC1	ACCESSORY (SEE PLAN AND SCHEDULE) 1.5 DENOTES THE QUANTITY CC1 DENOTES THE MARK REFERRING TO THE ACCESSORY SCHEDULE
*	POUR STOP NOTED WITH *** (PS*) DENOTES THE POUR STOP MUST BE INSTALL PRIOR TO DECK
	FIELD CUT OPENING BY OTHERS SEE TYPICAL DETAIL ON THIS SHEET

SECTION NOTES

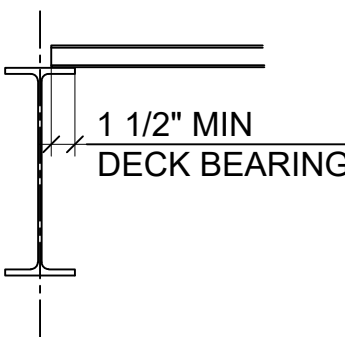
- 1) AS SECTIONS DRAWING REPRESENT A GENERAL PICTURE OF CUTS AT VARIOUS LOCATIONS ON PLANS, ACCESSORIES SHOWN MAY HAVE DIFFERENT MARKS TO SUIT EACH CONDITION. PLEASE REFER TO PLANS TO IDENTIFY APPROPRIATE MARK NUMBERS ATEACH LOCATION.
- 2) EDGE OF SLAB FORMED BY OTEHRS UNLESS ACCESSORY (POUR STOP) MARK NUMBER SHOWN.
- 3) FIELD CUT AND SUPPORT DECK AS REQUIRED TO SUIT, AT LOCATIONS OF MOMENT / COVER PLATES, ON BEAMS / PLATE GIRDERS AND / OR AT WIND GIRDER DIAGONAL BRACING CONNECTIONS, BY OTHERS.
- 4) "SP" WHEN SHOWN - INDICATES SEE PLAN VIEW FOR INFORMATION.



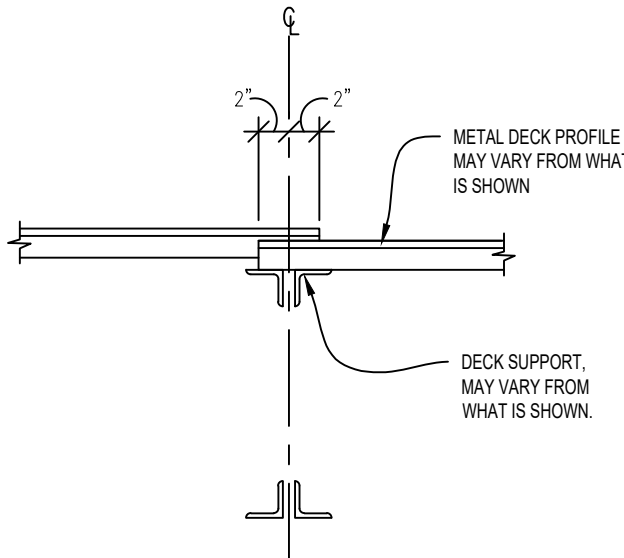
TYPICAL FIELD CUT OPENING WITHOUT SLAB



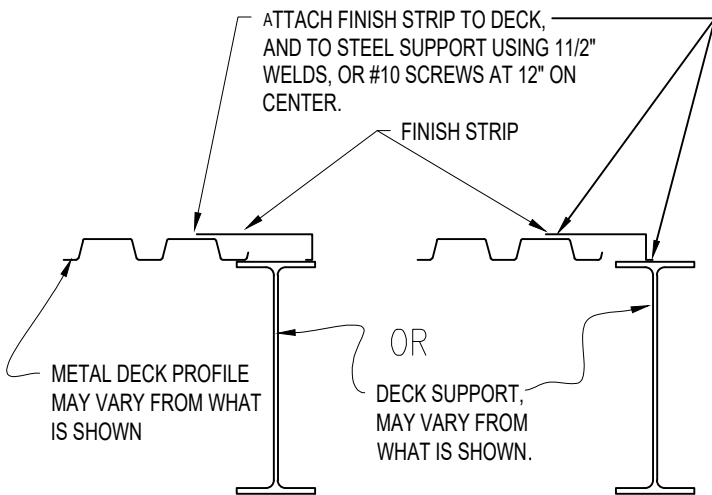
MIN. DECK BEARING ON "WEAK" DIRECTION



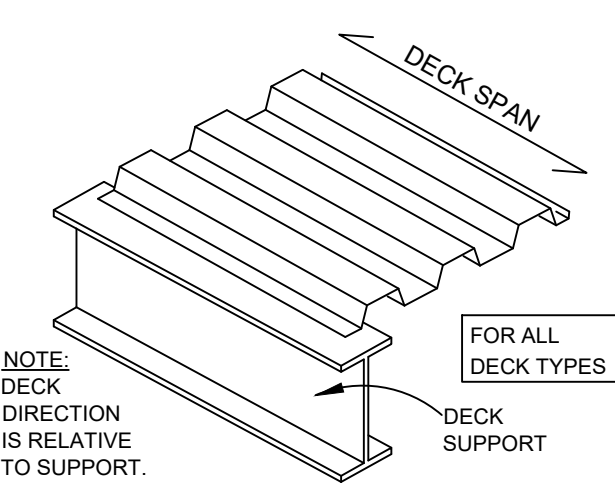
MIN. DECK BEARING ON "STRONG" DIRECTION



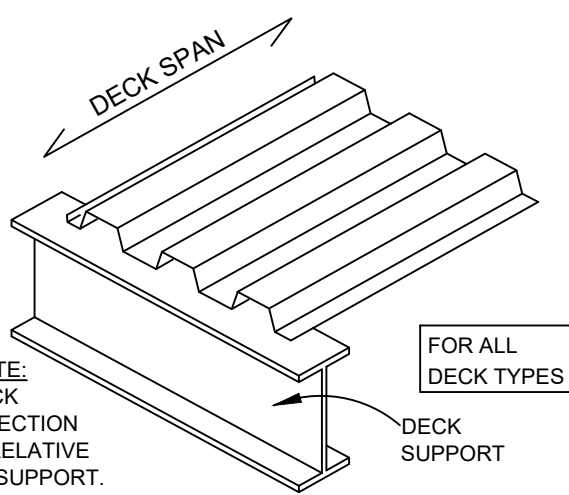
TYPICAL DECK LAP @ SUPPORT



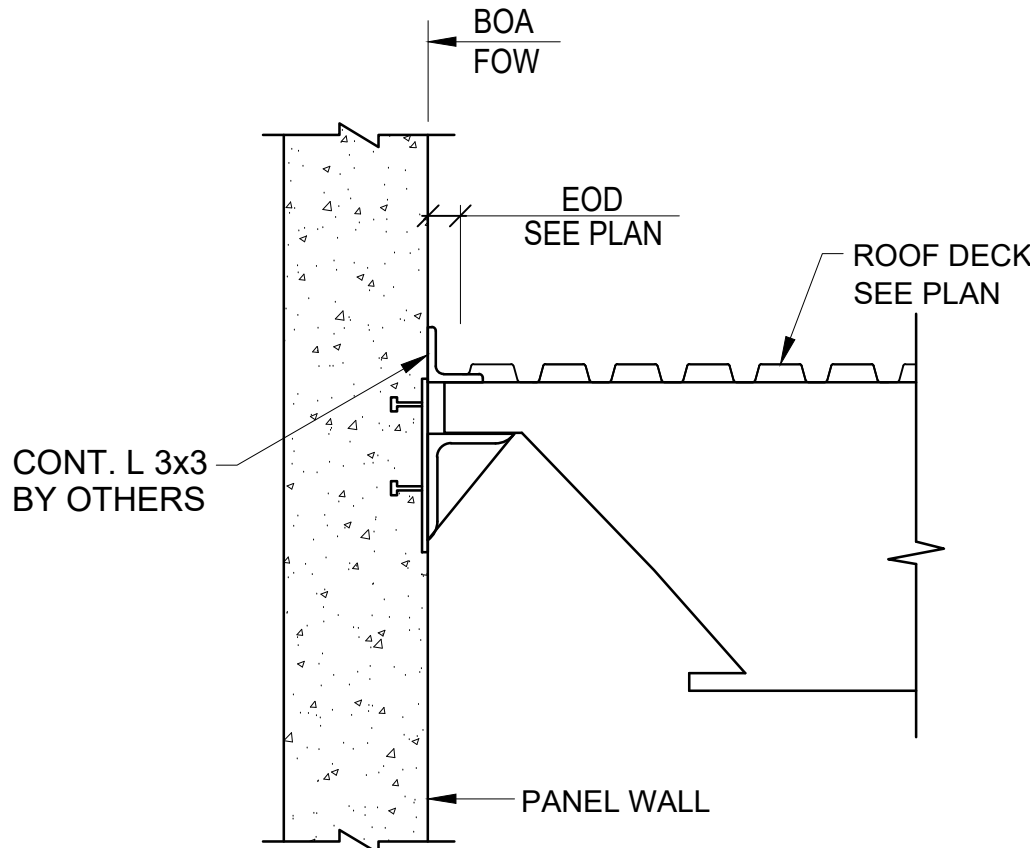
TYPICAL INSTALLATION DETAIL FOR FINISH STRIP



"WEAK" DIRECTION APPLIES TO ALL DECK TYPES

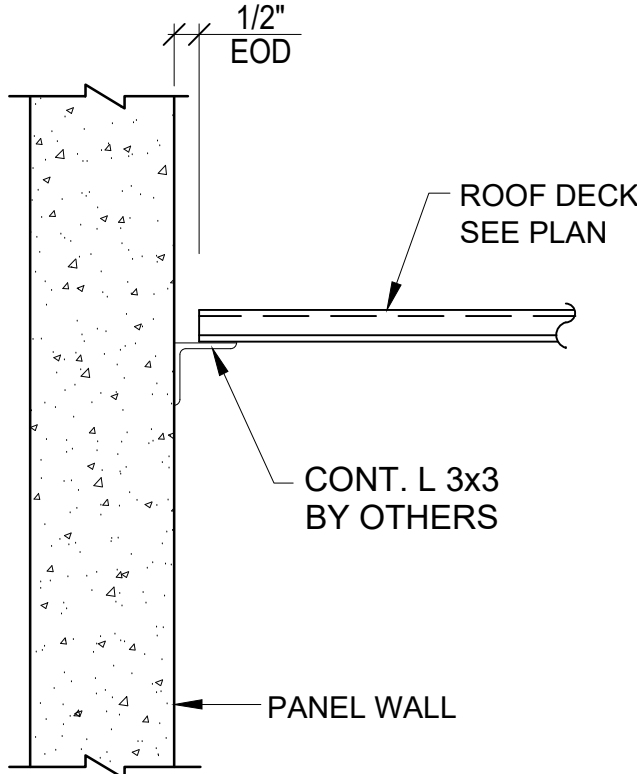


"STRONG" DIRECTION APPLIES TO ALL DECK TYPES



DECK SECTION 1

REF. : 1, 2, 3/S4, 1/S5



DECK SECTION 2

REF. :1/S7, 2/S5, 1/S6

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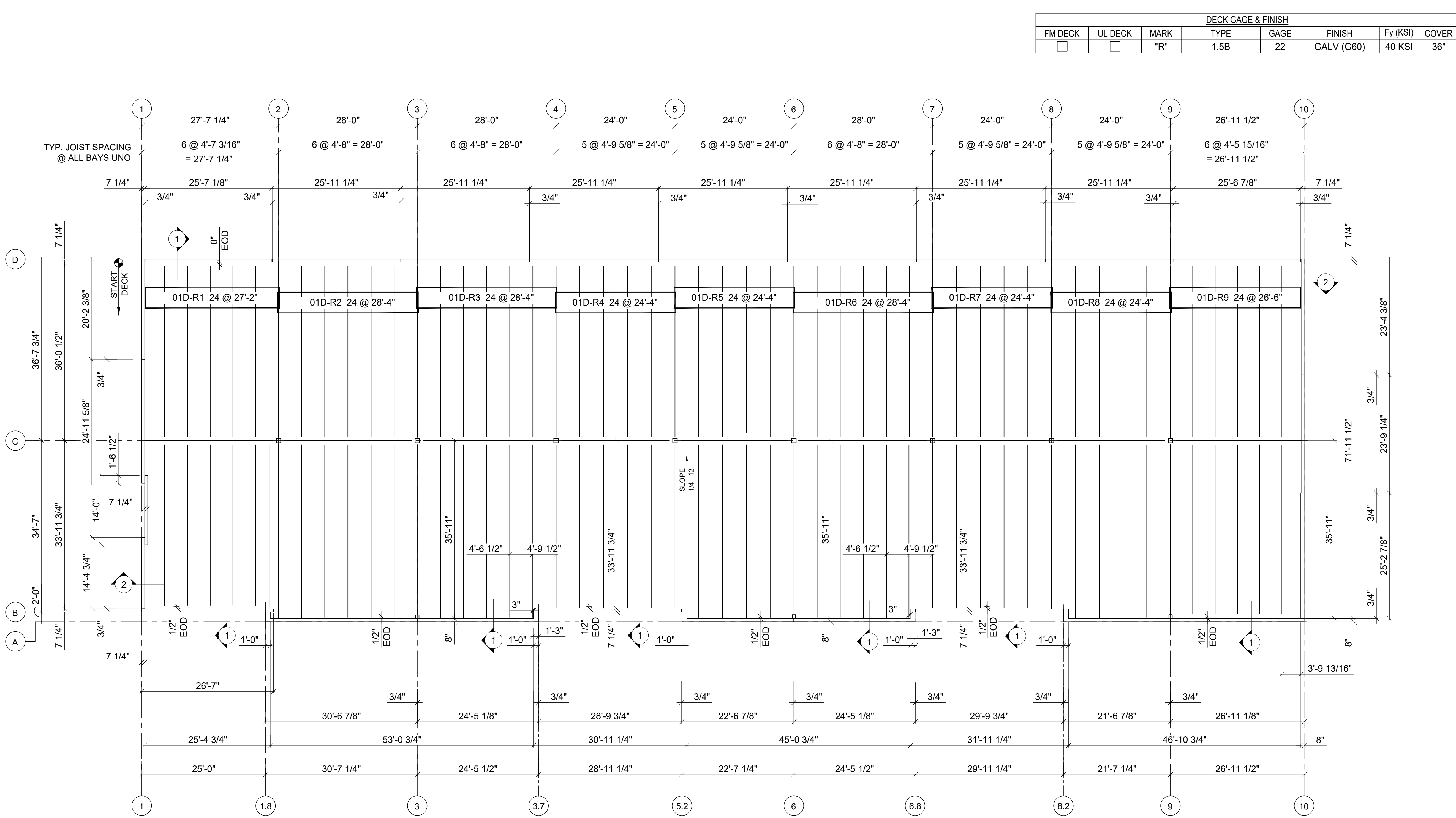
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FOR FIELD USE



DECK GAGE & FINISH						
FM DECK	UL DECK	MARK	TYPE	GAGE	FINISH	Fy (KSI)
☐	☐	"R"	1.5B	22	GALV (G60)	40 KSI

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- ONLY DRAWINGS HAVING A "FIELD USE" STAMP SHALL BE USED FOR ERECTION.
- REFER TO THE ERECTION SECTIONS FOR JOIST AND JOIST GIRDER END ANCHORAGE REQUIREMENTS. JOISTS, JOIST GIRDERS, AND ACCESSORIES SHALL BE ATTACHED TO STEEL SUPPORTS WITH A MINIMUM OF:

K-SERIES JOISTS - THE EQUIVALENT OF TWO 1/8" FILLET WELDS (W) 2 1/2" LONG (L), AND BOLTED WITH TWO 1/2" A307 BOLTS WHERE SLOTS ARE INDICATED IN SECTION. **LH-SERIES JOISTS** - SECTION NUMBERS 02 THRU 06 - THE EQUIVALENT OF TWO 3/16" FILLET WELDS (W) 2 1/2" LONG (L), AND BOLTED WITH TWO 3/4" A307 BOLTS WHERE SLOTS ARE INDICATED IN SECTION.

DLH-SERIES JOISTS - SECTION NUMBERS 07 THRU 17 - THE EQUIVALENT OF TWO 1/4" FILLET WELDS (W) 2 1/2" LONG (L), AND BOLTED WITH TWO 3/4" A307 BOLTS WHERE SLOTS ARE INDICATED IN SECTION. **DLH-SERIES JOISTS** - SECTION NUMBERS 18 THRU 25 - THE EQUIVALENT OF TWO 1/4" FILLET WELDS (W) 4" LONG (L), AND BOLTED WITH TWO 3/4" A325 BOLTS WHERE SLOTS ARE INDICATED IN SECTION.

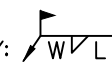
JOIST GIRDERS - THE EQUIVALENT OF TWO 1/4" FILLET WELDS (W) 2 1/2" LONG (L), AND BOLTED WITH TWO 3/4" A325 BOLTS WHERE SLOTS ARE INDICATED IN SECTION. **BRIDGING** - THE EQUIVALENT OF A 1/8" FILLET WELD (W) 1" LONG (L), WITH THE EXCEPTION OF BOLTING, FOR K-SERIES JOISTS.

THE EQUIVALENT OF A 1/8" FILLET WELD (W) 1" LONG (L), WITH THE EXCEPTION OF BOLTING, FOR LH-SERIES & DLH-SERIES JOISTS, SECTION NUMBERS 02 THRU 15.

THE EQUIVALENT OF A 1/8" FILLET WELD (W) 1 1/2" LONG (L), WITH THE EXCEPTION OF BOLTING, FOR DLH-SERIES JOISTS, SECTION NUMBERS 16 THRU 20.

THE EQUIVALENT OF A 1/8" FILLET WELD (W) 2 1/4" LONG (L), WITH THE EXCEPTION OF BOLTING, FOR DLH-SERIES JOISTS, SECTION NUMBERS 21 THRU 25.

BOTTOM CHORD BRACES - THE EQUIVALENT OF A * FILLET WELD (W) ** LONG (L).
* = SAME AS BRACE ANGLE THICKNESS, ** = SAME AS BRACE ANGLE LEG LENGTH.
DO NOT WELD BRACE TO JOIST GIRDER UNTIL ALL DEAD LOAD HAS BEEN APPLIED.

KEY:  WFL

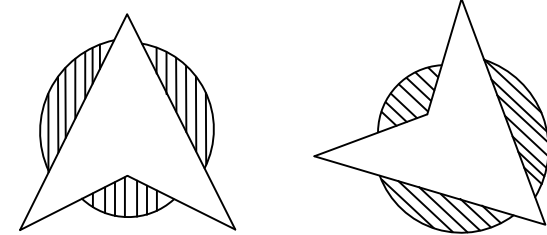
- ALL STEEL BEARING JOISTS IN BAYS 40'-0" AND MORE, ARE TO BE BOLTED TO SUPPORTS PER OSHA, UNLESS JOISTS ARE PRE-ASSEMBLED INTO PANELS.
- ACCORDING TO SJI, BEARING PLATES SHALL BE LOCATED NO MORE THAN 1/2" FROM THE FACE OF MASONRY OR CONCRETE SUPPORTS. REFERENCE SJI SPECIFICATIONS FOR MINIMUM BEARING PLATE WIDTHS.
- UNBRIDGED JOISTS MAY EXHIBIT SOME DEGREE OF INSTABILITY UNDER THE ERECTOR'S WEIGHT, THEREFORE, EXTREME CAUTION MUST BE EXERCISED, WHEN IT IS NECESSARY FOR THE ERECTOR TO CLIMB ON THE JOIST, REFER TO SJI AND OSHA REQUIREMENTS.
- VERIFY THAT ALL BRIDGING IS COMPLETELY INSTALLED, WITH JOIST AND JOIST GIRDER ENDS PERMANENTLY ATTACHED, BEFORE APPLYING CONSTRUCTION LOADS TO JOIST.
- ADEQUATE MEANS FOR DISTRIBUTING CONCENTRATED LOADS SHOULD BE PROVIDED SO THAT THE CAPACITY OF ANY JOIST IS NOT EXCEEDED.
- JOIST CHORDS ARE NOT DESIGNED FOR BENDING DUE TO CONCENTRATED LOADS, UNO ON PLANS. EITHER PLACE LOADS AT JOIST PANEL POINTS OR SEE THE "FIELD INSTALLED WEB MEMBERS AT CONCENTRATED LOADS" DETAIL.

O'DONNELL GENERAL NOTES:

- NIC - NOT IN CONTRACT. UNO - UNLESS NOTED OTHERWISE.
- TYPICAL PRIMER COATING, UNO ON PLANS:
STD. SHOP COAT GRAY PRIMER FOR ALL JOISTS, JOIST GIRDERS & JOIST ACCESSORIES.
SHOP PRIMER COMPLIES WITH SSPC-PAINT 15 AND FS TT-P 636.
NOTE: SHOP PRIMER IS APPLIED BY DIPPING, COATING MAY NOT BE UNIFORM AND REQUIRE REMOVAL OF ACCUMULATIONS BEFORE FINISH COAT IS APPLIED.
- WELDED HORIZONTAL BRIDGING IS SUPPLIED IN 25'-0" LENGTHS. FIELD CUT WELDED HORIZONTAL BRIDGING AS REQUIRED AND UTILIZE ALL DROP.
NOTE: WELDED BRIDGING IS TO BE EQUALLY SPACED BETWEEN SUPPORTS, UNO ON PLANS.
DECK MUST BE POSITIVELY ATTACHED TO JOIST TOP CHORDS IN ACCORDANCE WITH DECK FASTENING REQUIREMENTS, TO PROVIDE LATERAL STABILITY, UNO ON PLANS.
- JOISTS MARKED TL_ INDICATES TIE-JOISTS. THESE JOISTS ARE NOT DESIGNED TO SATISFY OSHA 29 CFR 1926.757 (c)(3). REFER TO "DANGER" TAG ON JOIST FOR ERECTION REQUIREMENTS.
- DO NOT CUT AWAY ANY CHORDS OR WEBS.
- PRODUCTS ARE FABRICATED TO MEET THE ERECTION REQUIREMENTS OF OSHA. FIELD COMPLIANCE WITH OSHA IS NECESSARY.

CONTRACT NOTE:

O'DONNELL WILL NOT ACCEPT THE RESPONSIBILITY OR CHARGES FOR ANY FIELD CORRECTIONS MADE WITHOUT PRIOR O'DONNELL APPROVAL.



PROJECT
NORTH

TRUE
NORTH

ROOF DECK LAYOUT PLAN

SEQ. #01D

REF.: S3

- REFERENCE DWG DE1.1 FOR LEGEND, SYMBOLS & ABBREVIATIONS.
- FOR DECK SECTIONS, SEE DRAWING DE1.3

ERECTOR NOTE :
DECK TO BE FIELD CUT
AS REQUIRE @ ROOF
HATCH & OPENING AREA.

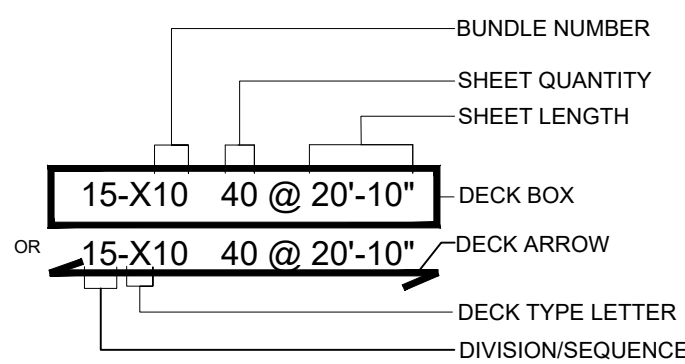
DESIGN METHOD

ASD: ☒

LRFD: ☐

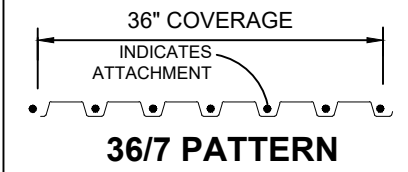
FACTORED: ☐

DECK SHEET LEGEND



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 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
ROOF	36/7	6" O.C.	5/8"Ø PUDDLE WELDS	#10 TEK SCREWS @ 36" O.C.

- POUR STOP SHALL BE WELDED WITH 1" FILLET WELDS @ 12" O. C. MAX ACCORDING TO SDI WITH 2" MIN. BEARING.
- ALL DECK ACCESSORIES OTHER THAN POUR STOPS SHALL ATTACHED BY EITHER TACK WELDING OR #10 TEK SCREWS (BY OTHERS) @ 24" O. C. MAX ACCORDING TO SDI WITH 2" MIN. BEARING.

REMARKS:

SCREWS - #10 -16x3/4" Type/1 (Side Laps)

FOR FIELD USE

BILL OF MATERIALS

List For FABRICATION

JOB-ID	23-14306	SEQ#	01D
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Job Name	PO#24-3827 - SHOPS @ JORDAN BLDG B
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Remarks	KSI VALUE - 40KSI (MIN.) REQUIRED
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DECK BOM	
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Type	1.5" B	GA	22	FINISH	G-60	Top Clr		Cover	36	SQS	169.92
						Bot Clr					

BLANK = GALV ONLY

[illegible]

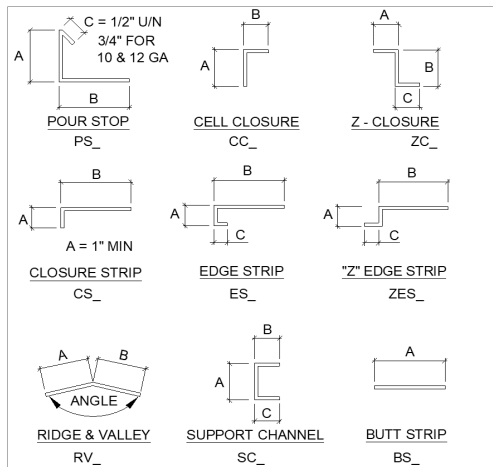
SCREWS

#10-16 x 3/4-in.	3,000
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#12-24 x 1 1/4-in.	
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Weld Washers 14ga. 5/8-in.	
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ACCESSORY TYPES



<u>MARK-TYPE</u>	<u>PCS</u>	<u>Gauge</u>	<u>A</u>	<u>B</u>	<u>C</u>	<u>Length</u>
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[illegible]

216

169.92 28,037

