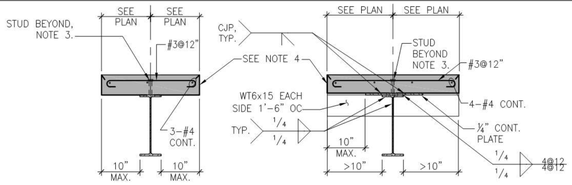
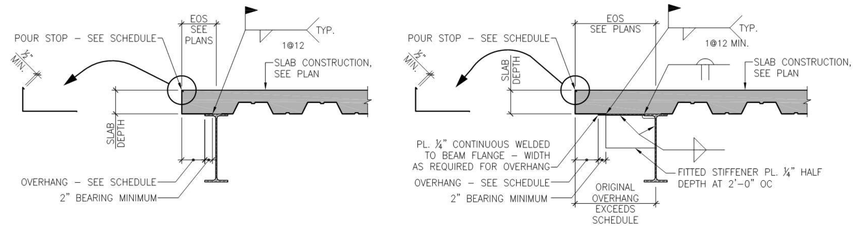


NOTES:
1. DETAIL DOES NOT APPLY FOR ECCENTRIC MASONRY LOADS ON SLAB OR MEP ATTACHMENTS TO EDGE OF SLAB.
2. DEVELOP LONGITUDINAL BARS INTO SLAB BEYOND SLAB EDGE WITH EXTENSION OR STANDARD HOOK IF SPACE DOES NOT ALLOW FOR EXTENSION.
3. PLACE STUDS AS SHOWN ON PLAN, BUT NOT LESS THAN 1 STUD AT 12" OC
4. SHEET METAL POURSTOP BY DECK SUPPLIER. USE SDI CRITERIA (SDI PUBLICATION #31) FOR THICKNESS, 14 GA. MINIMUM.

1 FLOOR OPENING ON BOTH SIDES OF BEAM

N.T.S.

MINIMUM POUR STOP GAUGE													
SLAB DEPTH (INCHES)	OVERHANG (INCHES)												
	0	1	2	3	4	5	6	7	8	9	10	11	12
6.50	16	16	16	16	16	14	14	12	12	12	10	10	
7.50	16	14	14	12	12	12	12	10	10	10			



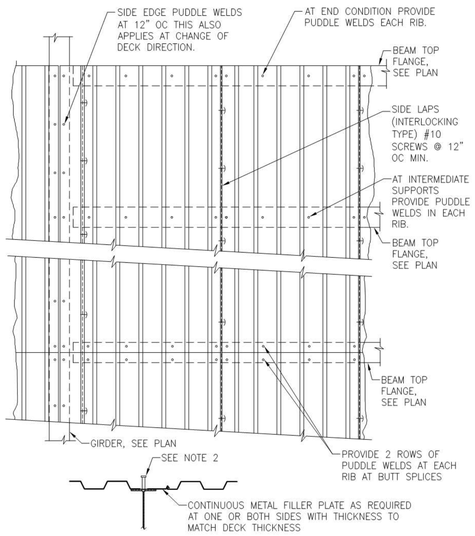
TYPICAL SLAB EDGE

LARGE OVERHANG SLAB EDGE

NOTES:
1. UON, PLACE GALVANIZED SHEET METAL POUR STOPS. POUR STOPS SHOWN ARE A MINIMUM.

2 COMPOSITE DECK SLAB EDGE DETAIL

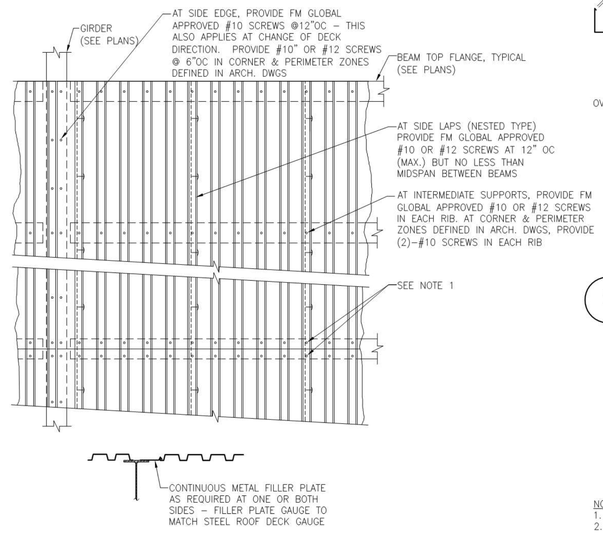
N.T.S.



NOTES:
1. PUDDLE WELDS TO BE ⅜"ø MIN.
2. WELDED HEADED STUDS MAY REPLACE PUDDLE WELDS.
3. DECK ENDS ARE TO BE BUTT SPLICED. LAPPED DECK ENDS PROHIBITED.

3 FASTENING PATTERN FOR 3" COMPOSITE METAL DECK

N.T.S.



NOTES:
1. DECK ENDS ARE TO BE BUTT SPLICED. LAPPED DECK ENDS ARE PROHIBITED.

4 FASTENING PATTERN FOR $1^1/_2$" STEEL ROOF DECK

NTS

BEAM SHEAR REACTION TABLE		
BEAM SIZE	REACTION (KIPS)	MINIMUM NUMBER OF BOLT ROWS
W8	15	2
HSS12x10	25	3
HSS12x12	25	3
W16, W18	30	3

NOTES:
1. SHEAR VALUES ON PLAN SUPERSEDE TABLE VALUES.
2. SHEAR VALUES ARE SERVICE LOADS. USE 1.5 LOAD FACTOR FOR LRFD CONVERSIONS.
3. SEE PLANS FOR BEAMS WITH AXIAL FORCES.
4. SEE DETAILS AND SECTIONS FOR BEAMS REQUIRING FULL DEPTH SHEAR CONNECTIONS.
5. MINIMUM BOLT DIAMETER: ¾"
6. DESIGN CONNECTIONS FOR AXIAL TENSILE STRENGTH PER SECTION 1614.3.2.2 OF THE INTERNATIONAL BUILDING 2009.

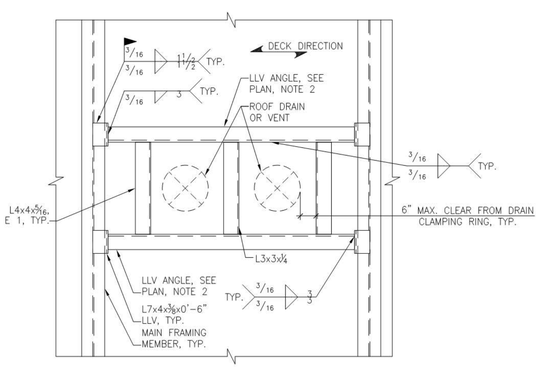
5 BEAM REACTION TABLE AND NOTES

NTS

MINIMUM SIZE OF FILLET WELDS TABLE, UON	
MATERIAL THICKNESS OF THICKER PART JOINED (IN.)	MINIMUM SIZE OF FILLET WELD[a] (IN.)
TO ¼ INCLUSIVE	⅛
OVER ¼ TO ½	3/16
OVER ½ TO ¾	¼
OVER ¾	5/16
[a] LEG DIMENSION OF FILLET WELDS. SINGLE–PASS WELDS MUST BE USED.	

6 WELD TABLE

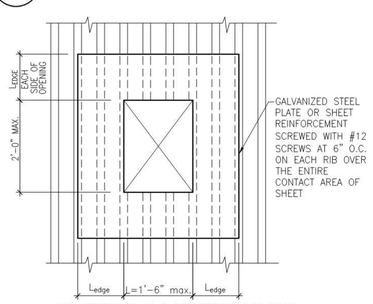
N.T.S.



NOTES:
1. OMIT WHEN DRAIN IS LESS THAN 1'–6" CLEAR FROM A MAIN FRAMING MEMBER FLANGE EDGE.
2. OMIT ANGLE WHEN DRAIN IS LESS THAN 1'–0" CLEAR FROM A MAIN FRAMING MEMBER FLANGE EDGE, CONNECT SHORT ANGLES TO MAIN FRAMING MEMBER WITH L6x4x5/16 WITH SAME WELDS SHOWN FOR L7x4 ANGLE SUPPORT.
3. TOP OF STEEL ELEVATION TO MATCH MAIN FRAMING MEMBER ELEVATIONS EXCEPT FOR L7x4 CONNECTIONS.
4. REFER TO TYPICAL DETAILTS FOR SUPPORT AT CORNER CONDITION.

7 ROOF DRAIN OR VENT SUBFRAMING DETAIL

N.T.S.



FOR OPENING TO 1'–6" PERPENDICULAR TO DECK

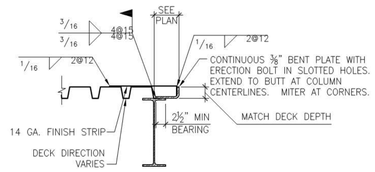
NOTES:
1. NO REINFORCEMENT NEEDED WHERE "L" IS 6 INCHES OR LESS.

PARAMETERS FOR DECK CUT REINFORCEMENT POUR			
DEPTH OF DECK	DECK GAUGE	REINFORCING SHEET THICKNESS	MAX. CLEAR SPAN OF DECK
$1^1/_2$"	20	13 GA.	5'–0"
	18	12 GA.	6'–0"
	16	12 GA.	7'–0"
3"	20	12 GA.	7'–0"
	18	1/8" or 10 GA.	8'–0"
	16	1/8" or 10 GA.	9'–0"

NOTES:
1. L_{EDGE} = 1'–0" MIN.
2. DETAIL DOES NOT APPLY TO OPENINGS SHOWN ON PLAN WITH STEEL SUBFRAMING.
3. FOR OPENINGS CUT IN THE FIELD, NOT SHOWN ON PLAN, AND EXCEEDING THE MAXIMUM SPAN LIMITS, ADD SUBRAMING PER TYPICAL DETAILS.
4. DETAIL APPLIES TO OPENINGS SPACED NO CLOSER THAN 5'–0" CLEAR IN DIRECTION TRANSVERSE TO DECK RIBS AND NO CLOSER THAN 10'–0" CLEAR IN DIRECTION PARALLEL TO RIBS.
5. REVIEW WITH ENGINEER SPECIFIC CONDITIONS THAT MIGHT ALLOW MODIFICATIONS TO THE SPECIFIED PARAMETERS OF THE DETAIL.

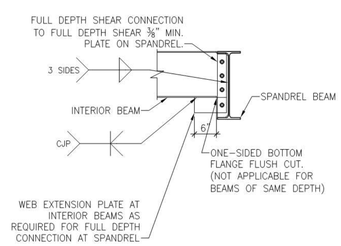
8 ROOF DECK OPENING REINFORCEMENT

N.T.S.



9 ROOF DECK EDGE SUPPORT

N.T.S.



10 BEAM FRAMING TO SPANDREL BEAM CONNECTION

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REVISIONS

NUMBER	DESCRIPTION	DATE

STAMP

KEY PLAN

DATE.....10/19/2015
SCALE.....
DRAWN BY.....MAT
PROJECT NUMBER.....SAR15A.00

DRAWING TITLE
STEEL TYPICAL DETAILS (2 OF 2)

S-021
DRAWING NUMBER