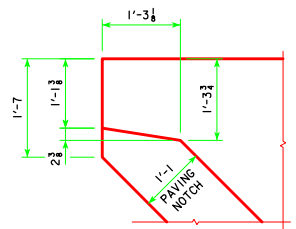


**45° SKEW  
TRANSVERSE REINFORCING STEEL LAYOUT**

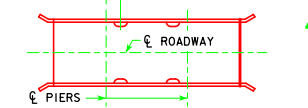
NOTE: 5d BARS ARE TO PASS UNDER 8e BARS IN CONFLICT AREAS.

45° TRANSV. REINFORCING DIMENSION TABLE									
BRIDGE	"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"	"I"
70' BRIDGE	47	47'-0	48	50	50'-0	51	27'-7	17'-0	29'-8
80' BRIDGE	57	57'-0	58	60	60'-0	61	31'-7	19'-0	33'-8
90' BRIDGE	67	67'-0	68	70	70'-0	71	35'-7	21'-0	37'-8
100' BRIDGE	77	77'-0	78	80	80'-0	81	39'-7	23'-0	41'-8
110' BRIDGE	87	87'-0	88	90	90'-0	91	43'-7	25'-0	45'-8
120' BRIDGE	97	97'-0	98	100	100'-0	101	47'-7	27'-0	49'-8
130' BRIDGE	107	107'-0	108	110	110'-0	111	51'-7	29'-0	53'-8
140' BRIDGE	117	117'-0	118	120	120'-0	121	55'-7	31'-0	57'-8
150' BRIDGE	127	127'-0	128	130	130'-0	131	59'-7	33'-0	61'-8

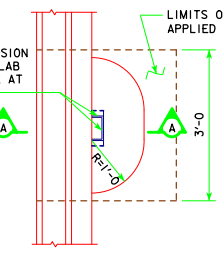


**DETAIL A**

70'-0	5'-6 (TYP.)
80'-0	5'-6 (TYP.)
90'-0	6'-6 (TYP.)
100'-0	6'-6 (TYP.)
110'-0	7'-6 (TYP.)
120'-0	7'-6 (TYP.)
130'-0	8'-6 (TYP.)
140'-0	8'-6 (TYP.)
150'-0	8'-6 (TYP.)



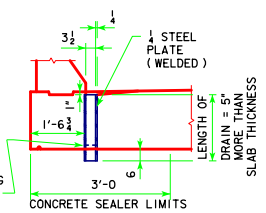
**FLOOR DRAIN LOCATION**  
NOTE: 4" X 8" OUTSIDE DIMENSION ROLLED TUBE WITH 1/4" WALL THICKNESS MAY BE SUBSTITUTED FOR THE WELDED DRAIN SHOWN.



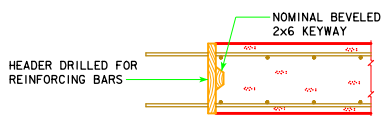
**PART PLAN**

**FLOOR DRAIN DETAILS**  
(USE FOR BARRIER RAIL ONLY, NOT REQUIRED FOR OPEN RAIL)  
NOTE: DRAINS ARE TO BE GALVANIZED, INCLUDE COST OF DRAINS IN PRICE BID FOR "STRUCTURAL CONCRETE". 4 DRAINS REQUIRED.

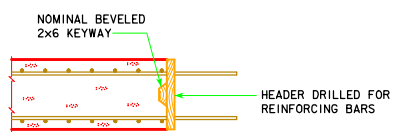
1 1/4" X 1 1/4" X 0'-3  
OF DRAIN WITH 2-1/4"  
HOLES IN EACH OUTSTANDING  
LEG FOR NAILING TO FORMS



**SECTION A-A**



**TRANSVERSE CONSTR. JOINT**



**LONGITUDINAL CONSTR. JOINT**

WEIGHT OF ONE FLOOR DRAIN			
SPAN	WEIGHT, LBS.	SPAN	WEIGHT, LBS.
70'-0	32	120'-0	41
80'-0	33	130'-0	43
90'-0	35	140'-0	45
100'-0	37	150'-0	48
110'-0	39		

LATEST REVISION DATE  
*Thomas E. M. Dwyer*  
APPROVED BY BRIDGE ENGINEER

**IOWA DOT** Highway Division  
STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES  
**CONTINUOUS CONCRETE  
SLAB BRIDGES**  
JULY, 2014

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**SUPERSTRUCTURE DETAILS  
ALL BRIDGES**

**J40-24-14**

45° SKEW