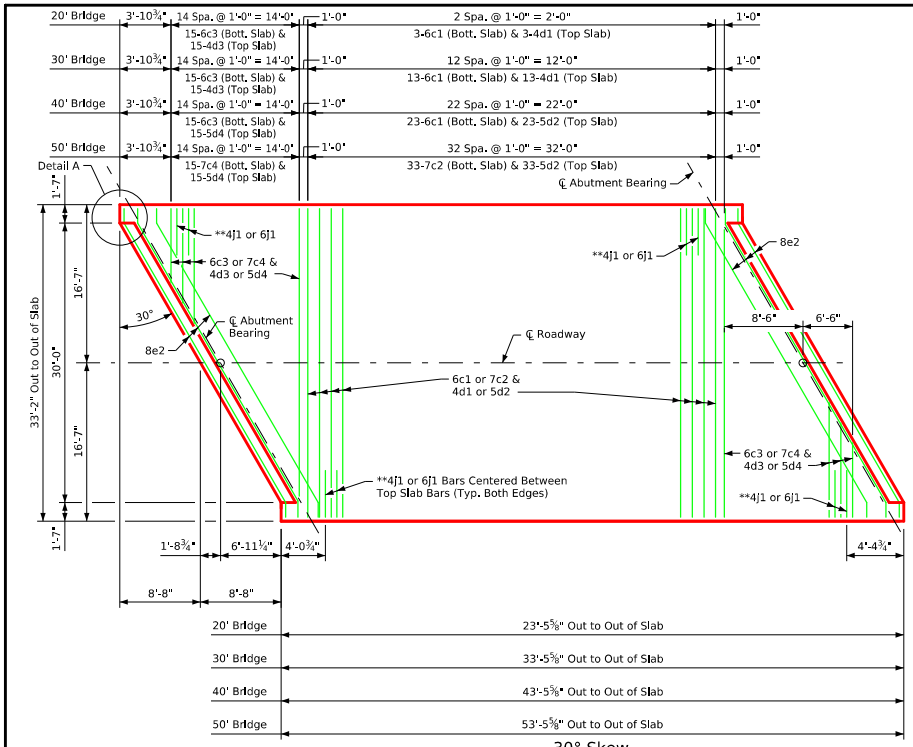
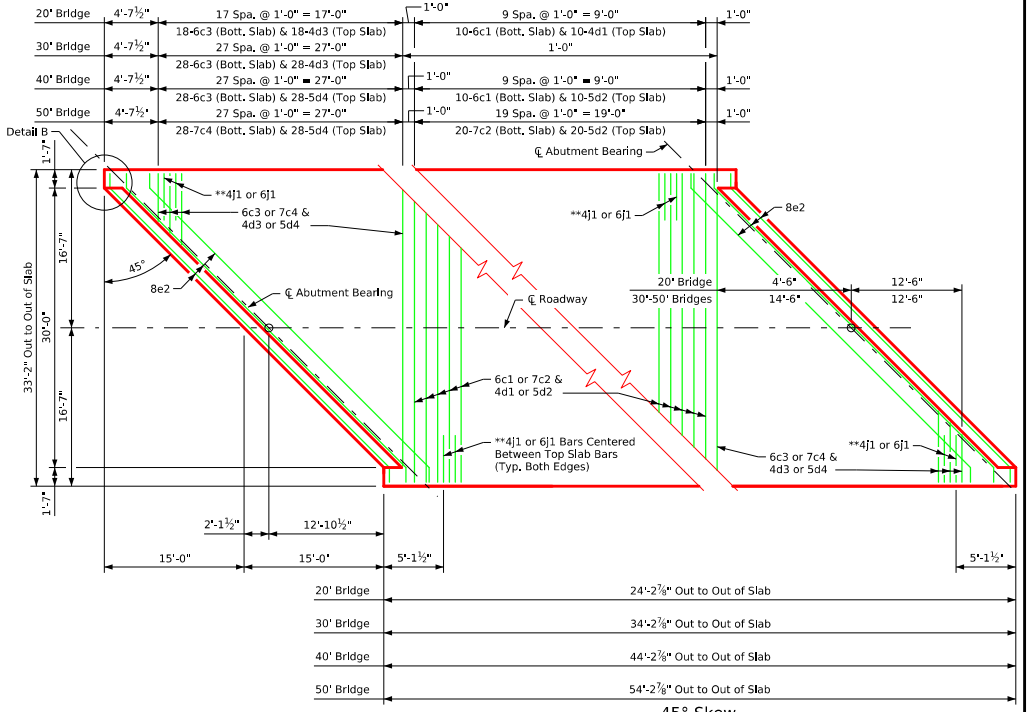


30° Skew



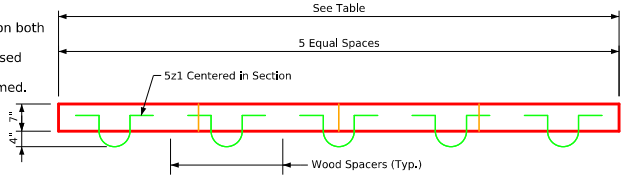
45° Skew

Transverse Reinforcing Steel Layout

Weight of One Deck Drain	
Span	Weight (lbs.)
20'-0"	32
30'-0"	38
40'-0"	41
50'-0"	48

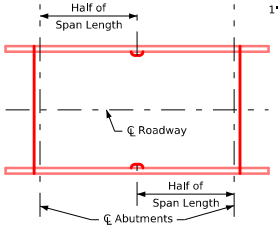
Notes:
4d or 5d bars are to pass under 8e2 bars in conflict areas on 30° & 45° skew bridges.
Bar size and spacing for variable top (6c3 and 7c4) and bottom (4d3 and 5d4) bars are similar on both ends of the span.
** 4j1 bars shall be used with open concrete rails or W-beam guardrails, and 6j1 bars shall be used with single slope concrete rails.
Rotate or field bend 4j1 or 6j1 bars to fit in acute corners. The 4j1 or 6j1 bars shall not be trimmed.

Temporary Paving Block		
Skew	Length	Concrete
30°	32'-7"	0.8 C.Y.
45°	40'-5"	0.9 C.Y.



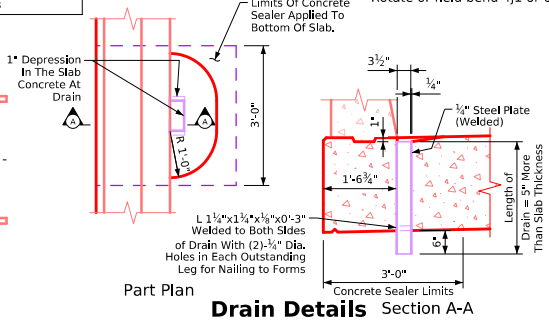
Temporary Paving Block Detail

Note:
Temporary Paving Block to be used with paved approaches only.
Line Paving Notch with tar paper before placing Temporary Paving Block.



Deck Drain Location

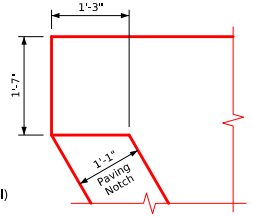
Note:
4" x 8" Outside dimension rolled tube with ¼" wall thickness may be substituted for the welded drain shown.



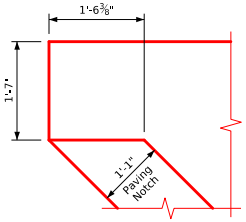
Part Plan

Drain Details Section A-A

(Use for Single-Slope Rail Only, not required for Open Rail or W-Beam Guardrail)
Note: Drains are to be galvanized. Include cost of drains in price for "Structural Concrete". (2 Drains Reqired)



Detail A



Detail B

Latest Revision Date

Approved by Bridge Engineer

IOWA DOT

Standard Design - 30'-0" Roadway, Single Span Bridge

Single Span Concrete Slab Bridges

July, 2025

Slab Reinforcing Plan
Details-30° & 45°
Skew

J30S-13-25