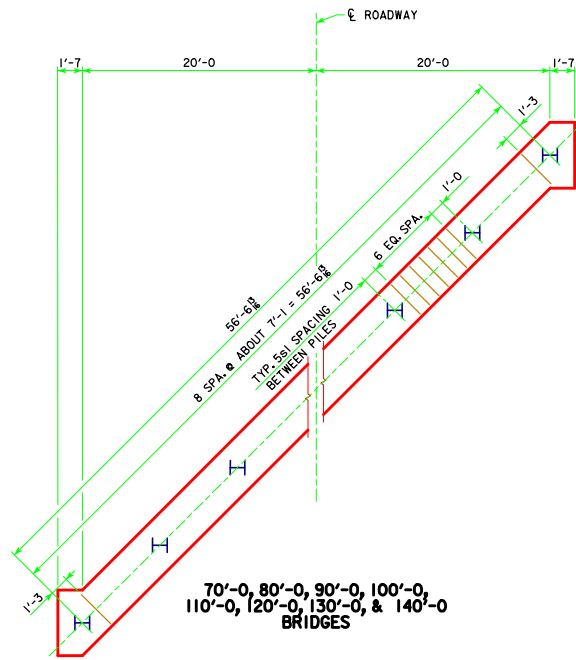
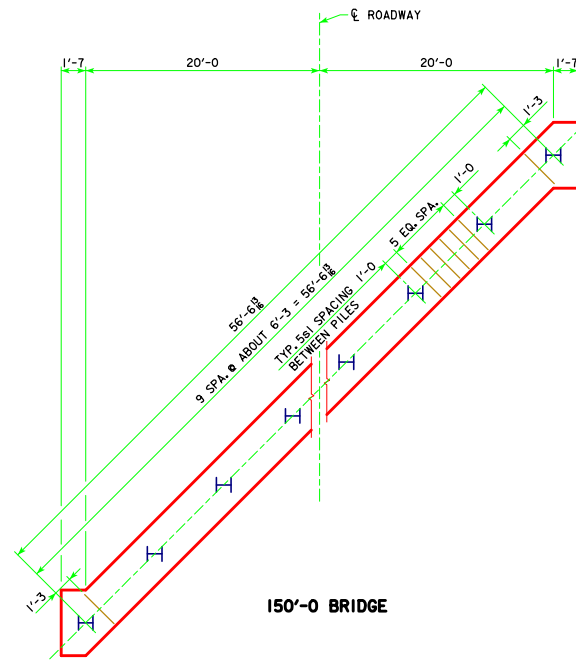


REVISED 06-13 -- REVISION FOR LRFD PILE DESIGN.



70'-0, 80'-0, 90'-0, 100'-0,  
110'-0, 120'-0, 130'-0, & 140'-0  
BRIDGES



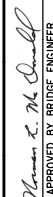

150'-0 BRIDGE

**PILE PLAN - 45° SKEW STEEL PILING**

NOTE:  
ALL PILES ARE TO BE ORIENTED WITH WEBS PERPENDICULAR  
TO THE CL OF THE ROADWAY AS SHOWN.

NUMBER OF PILES AND ABUTMENT DESIGN LOADS									
BRIDGE LENGTH	70'-0	80'-0	90'-0	100'-0	110'-0	120'-0	130'-0	140'-0	150'-0
PILING - NUMBER	9	9	9	9	9	9	9	9	10
PU, STRENGTH I DESIGN LOAD - KIPS	538	570	601	641	679	723	765	Δ 888	Δ 938

Δ INCLUDES DYNAMIC LOAD ALLOWANCE  
NOTE: PU, STRENGTH I DESIGN LOAD (KIPS) IS NOT THE VALUE USED IN THE FIELD FOR DRIVING PILES.

LATEST REVISION DATE 06-13 APPROVED BY BRIDGE ENGINEER 	 <b>Iowa Department of Transportation</b> Highway Division
	STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES <b>CONTINUOUS CONCRETE SLAB BRIDGES</b> NOVEMBER, 2006
	<b>45° ABUTMENT DETAILS SKEW - STEEL PILING</b>

**J40-43-06**