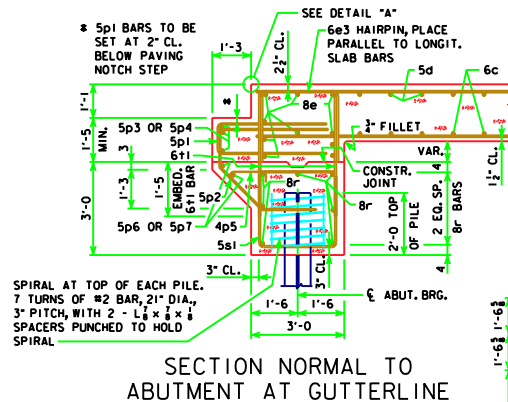
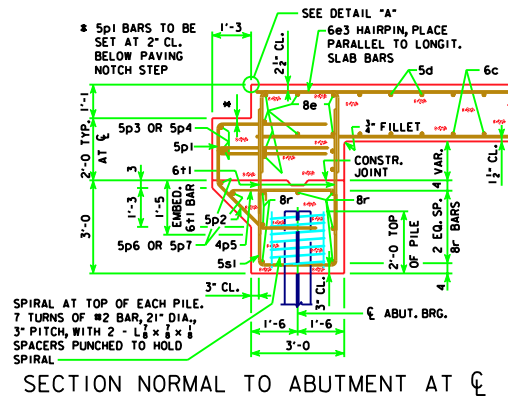


PILE PLAN - 15° SKEW
STEEL PILING

REACTION, PILE NUMBER & BEARING										
BRIDGE LENGTH	70'-0	80'-0	90'-0	100'-0	110'-0	120'-0	130'-0	140'-0	150'-0	
REACTION - KIPS	371	402	428	455	482	512	542	Δ 627	Δ 662	
BEARING - TONS	27	29	31	33	35	37	34	35	37	
PILING - NUMBER	7	7	7	7	7	7	8	9	9	

Δ INCLUDES IMPACT



ABUTMENT NOTES:

ALL PILING ARE HP 10 X 42.

THE CONCRETE AND REINFORCING STEEL FOR THE WINGS IS INCLUDED WITH THE SUPERSTRUCTURE.

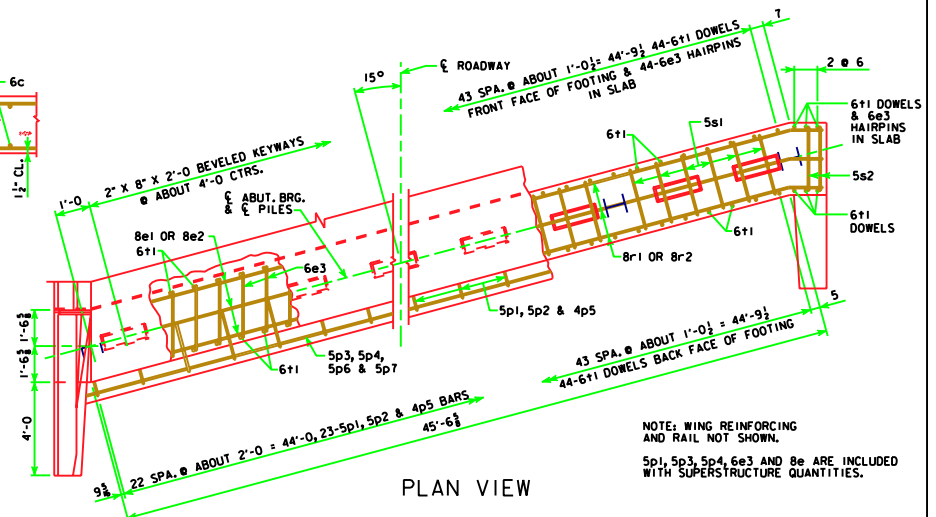
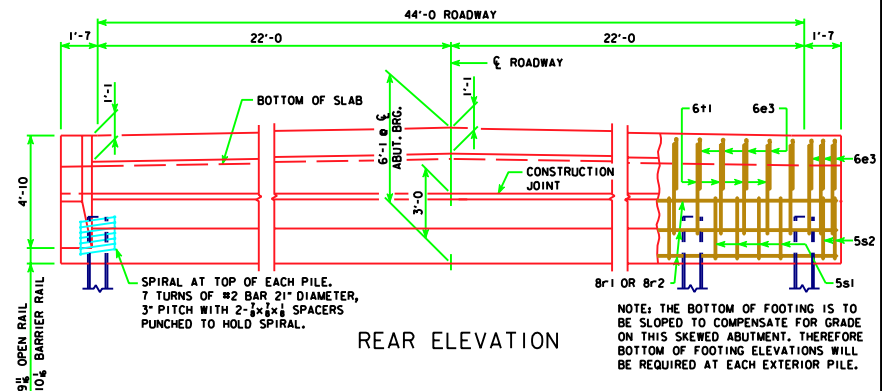
DETAILS ON THIS SHEET ARE TO BE USED ONLY WHEN ABUTMENTS ARE PLACED ON STEEL PILES. IF ROCK IS ENCOUNTERED CLOSER THAN 12' BELOW ABUTMENT FOOTING, SPECIAL ANALYSIS MAY BE REQUIRED.

THE MINIMUM CLEAR DISTANCE FROM THE FACE OF THE CONCRETE TO NEAR REINFORCING BAR IS TO BE 2 INCHES UNLESS OTHERWISE NOTED OR SHOWN.

STEEL PILING USED AS FRICTION PILE SHALL BE DRIVEN TO FULL PENETRATION IF PRACTICABLE BUT IN NO CASE TO A BEARING VALUE LESS THAN THE PILE BEARING REQUIRED FOR EACH BRIDGE LENGTH AS SHOWN ON THIS SHEET.

ALL REINFORCING STEEL IS TO BE GRADE 60.

ABUTMENT PILING WAS DESIGNED FOR HS25 LOADING WITH AN ALLOWANCE FOR 20 LBS. PER SQ. FT. FUTURE WEARING SURFACE.



NOTE: WING REINFORCING AND RAIL NOT SHOWN.
5p1, 5p3, 5p4, 6e3 AND 8e ARE INCLUDED WITH SUPERSTRUCTURE QUANTITIES.

LATEST REVISION DATE	<p>Iowa Department of Transportation Highway Division</p>	STANDARD DESIGN - 44' ROADWAY, 3 SPAN BRIDGES	
		CONTINUOUS CONCRETE SLAB BRIDGES	
		NOVEMBER, 2006	
<p>ABUTMENT DETAILS 15° SKEW - STEEL PILING</p>		J44-40-06	