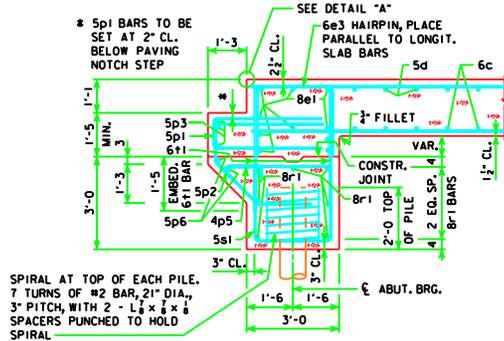


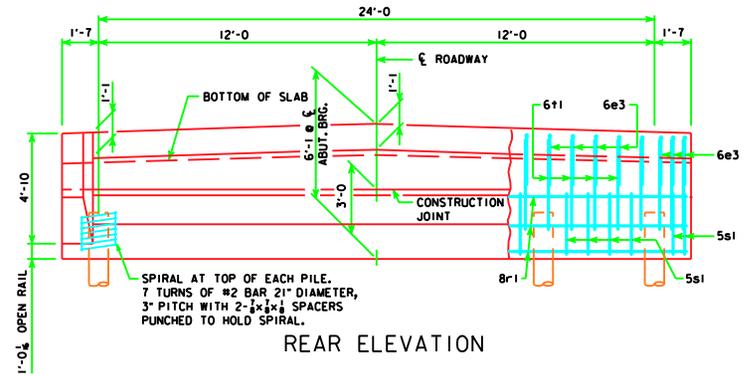
SECTION NORMAL TO ABUTMENT AT ROADWAY



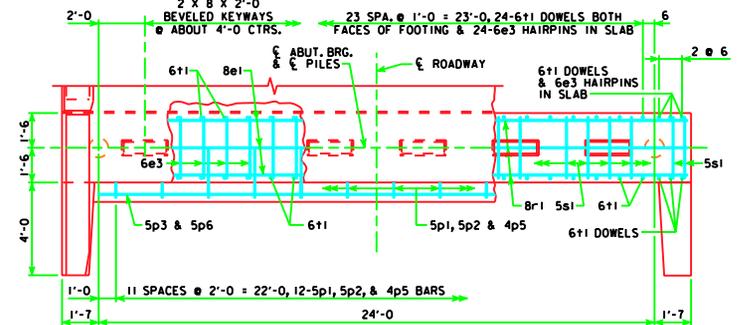
SECTION NORMAL TO ABUTMENT AT RAIL

**ABUTMENT NOTES:**

- 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 TIMBER PILES.
- THE MINIMUM CLEAR DISTANCE FROM THE FACE OF THE CONCRETE TO NEAR REINFORCING BAR IS TO BE 2 INCHES UNLESS OTHERWISE NOTED OR SHOWN.
- THE ABUTMENT PILES ARE TO 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, NOR TO MORE THAN 40 TONS PER BEARING PILE.
- 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.



REAR ELEVATION

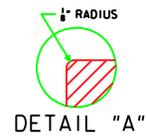


PLAN VIEW

NOTE: WING REINFORCING AND RAIL NOT SHOWN.  
5p1, 5p3, 6e3 and 8e1 ARE INCLUDED WITH SUPERSTRUCTURE QUANTITIES.

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	237	256	272	289	306	324	342	Δ 401	Δ 422
BEARING - TONS	20	19	20	19	20	19	20	20	21
PILING - NUMBER	6	7	7	8	8	9	9	10	10

Δ INCLUDES IMPACT



DETAIL "A"

LATEST REVISION DATE	 APPROVED BY BRIDGE ENGINEER	 STANDARD DESIGN - 24' ROADWAY, 3 SPAN BRIDGES <b>CONTINUOUS CONCRETE SLAB BRIDGES</b> NOVEMBER, 2006	
		ABUTMENT DETAILS 0° SKEW - TIMBER PILING	J24-27-06