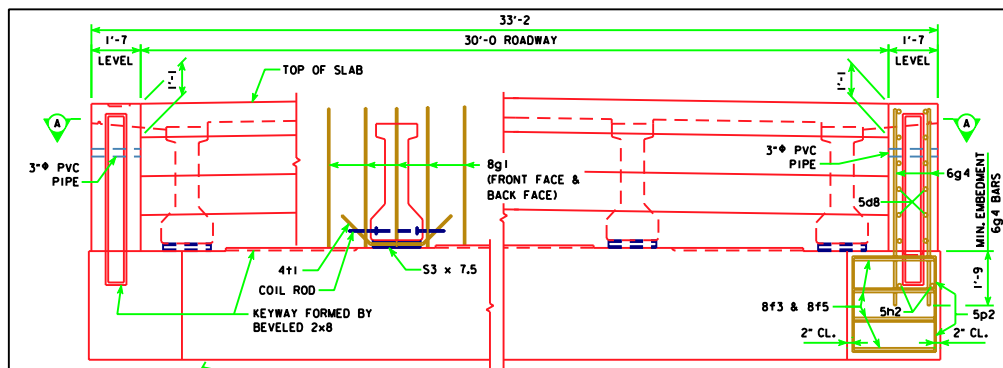
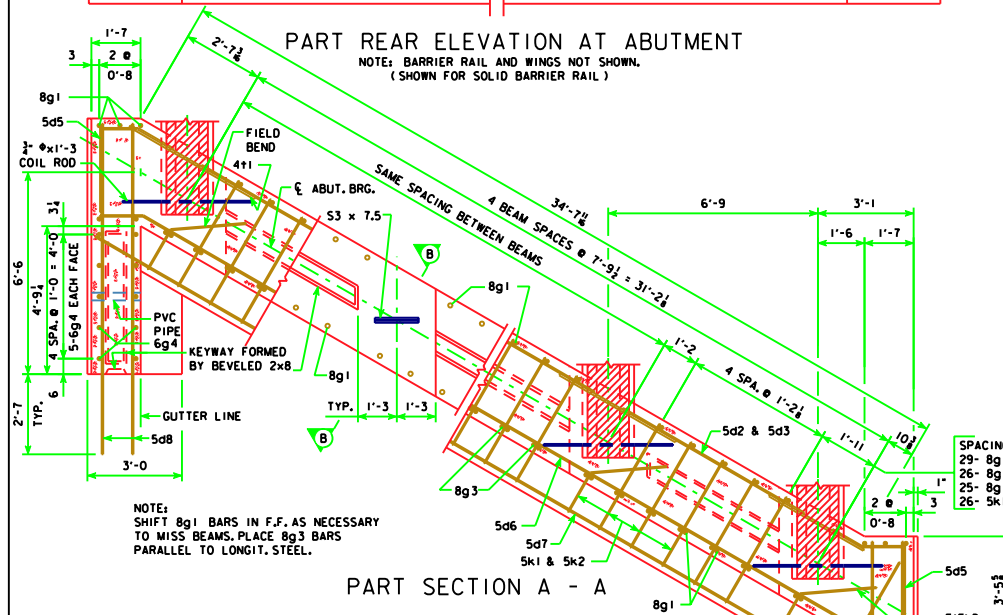




PART REAR ELEVATION AT ABUTMENT

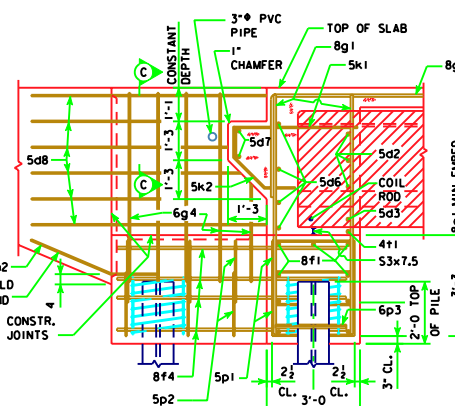
NOTE: BARRIER RAIL AND WINGS NOT SHOWN.
(SHOWN FOR SOLID BARRIER RAIL)



PART SECTION A - A

NOTE:
SHIFT 8g1 BARS IN F.F. AS NECESSARY
TO MISS BEAMS. PLACE 8g3 BARS
PARALLEL TO LONGIT. STEEL.

ABUTMENT PILE SPACING		201'-4	213'-10	226'-4	243'-0
WITH STEEL H-PILES	*A* PILE SPACES	5	5	6	6
	B (FT. - IN.)	6'-7	6'-7	5'-6	5'-6
	C (FT. - IN.)	2'-9 1/2	2'-9 1/2	2'-8 3/4	2'-8 3/4
	D EQUAL SPACES	4	4	3	3
	NO. OF PILES PER ABUT.	8	8	9	9
DESIGN PILE LOAD (TONS)		48	50	44	47



PART SECTION B - B

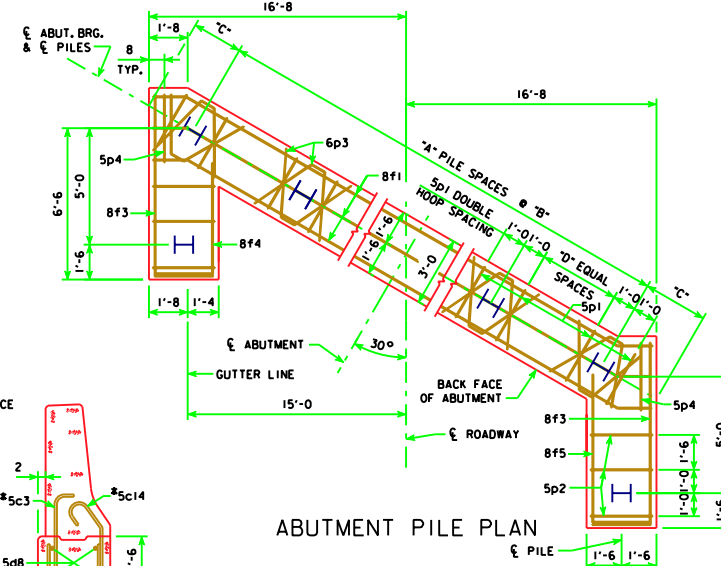
ABUTMENT NOTES:

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

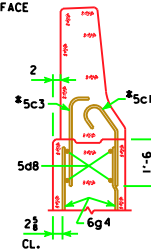
IF NECESSARY TO PREVENT DAMAGE TO THE END OF THE BRIDGE
DECK OR BACKWALL FROM CONSTRUCTION EQUIPMENT, AN APPROPRIATE
METHOD OF PROTECTION APPROVED BY THE ENGINEER SHALL BE
PROVIDED BY THE BRIDGE CONTRACTOR AT NO EXTRA COST TO THE
COUNTY OR STATE.

ABUTMENT PILES ARE TO BE DRIVEN TO THE DESIGN BEARING
VALUE AS GIVEN IN THE ABUTMENT PILE SPACING TABLE.

NOTE:
THE SPIRAL AT THE TOP OF EACH PILE TO
BE 7 TURNS OF NO. 2 BAR, 21" DIAMETER,
3" PITCH WITH 2 - 1/4" x 1/4" x 1/4" SPACERS
PUNCHED TO HOLD SPIRAL.

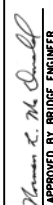


ABUTMENT PILE PLAN



**PART
SECTION C-C**

* NOTE: SEE BARRIER RAIL SHEET FOR
DETAILS. REINFORCING BARS 5c3 AND 5c14
ARE INCLUDED IN SUPERSTRUCTURE
QUANTITIES.

LATEST REVISION DATE	 APPROVED BY BRIDGE ENGINEER	 Iowa Department of Transportation Highway Division	
		STANDARD DESIGN - 30' ROADWAY, THREE SPAN BRIDGES PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES	
		HL93 SUPERSTRUCTURE	DECEMBER, 2006
		H525 SUBSTRUCTURE	
ABUTMENT DETAILS 30° SKEW C BEAMS		H30-19-06	