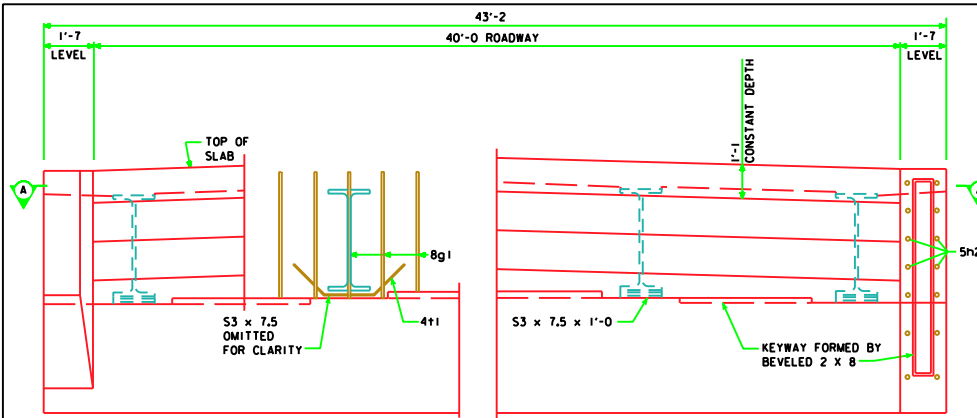


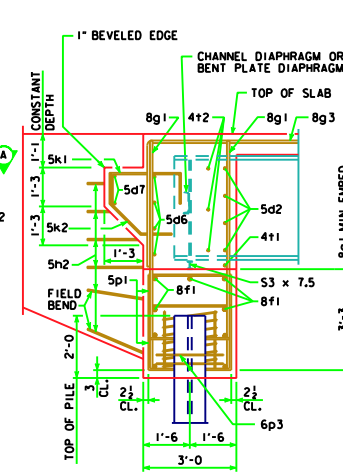
REVISION - 03-07 - CHANGED TO ALL EPOXY, PAVING NOTCH EXTENDED. PILE SIZE NOTE AND BARRIER RAIL NOTE ADDED.



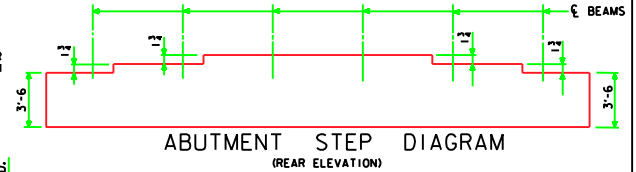
PART REAR ELEVATION AT ABUTMENT

ABUTMENT NOTES:

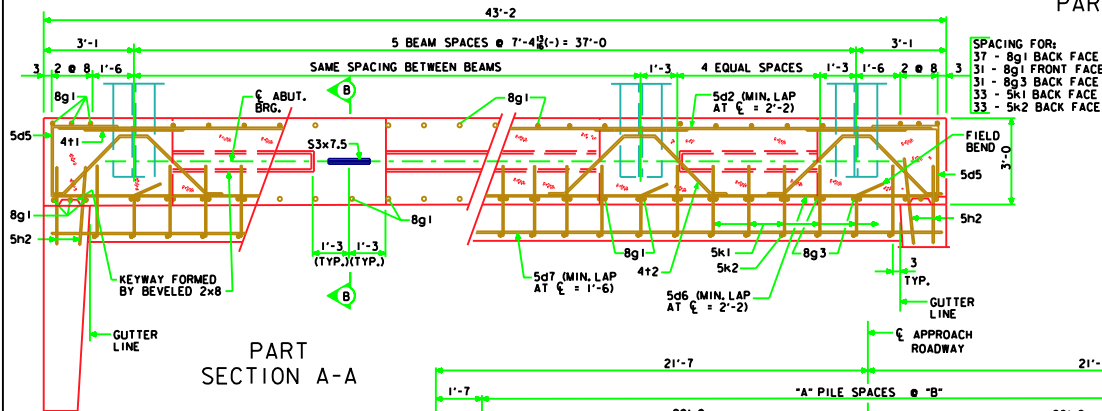
MINIMUM CLEAR DISTANCE FROM FACE OF CONCRETE TO REAR REINFORCING BAR IS TO BE 2" UNLESS OTHERWISE NOTED OR SHOWN.



PART SECTION B-B



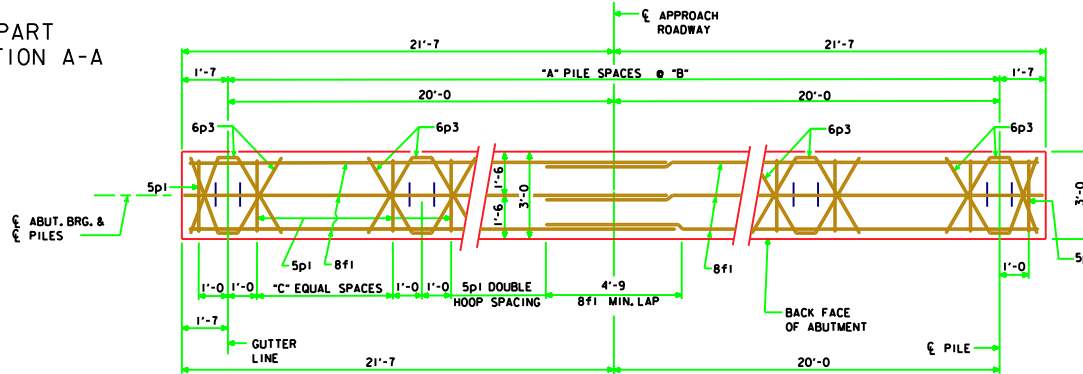
- NOTES:
1. HOLES DRILLED THROUGH BEAM WEB FOR 5d2 AND 4t2 BARS.
 2. THE SPIRAL AT THE TOP OF EACH PILE TO BE 7 TURNS OF No. 2 BAR, 21" DIAMETER, 3" PITCH WITH 2 - L₄ x $\frac{1}{4}$ x $\frac{1}{4}$ SPACERS PUNCHED TO HOLD SPIRAL.



PART SECTION A-A

DIMENSION OR NO.	℄ TO ℄ ABUTMENT BEARING							
	160'-0"	180'-0"	200'-0"	220'-0"	240'-0"	260'-0"	280'-0"	300'-0"
"A" (IN)	6	6	7	7	7	7	8	8
"B" (FT-IN)	6'-8	6'-8	5'-8 $\frac{1}{2}$	5'-8 $\frac{1}{2}$	5'-8 $\frac{1}{2}$	5'-8 $\frac{1}{2}$	5'-0	5'-0
"C" EQUAL SPACES	5	5	4	4	4	4	3	3
NO. OF PILES PER ABUT.	7	7	8	8	8	8	9	9
DESIGN PILE LOAD (TONS)	34	36	33	35	36	37	35	36

NOTE: HP 10 x 42 STEEL BEARING PILING REQUIRED.



ABUTMENT PILE PLAN

NOTE: BARRIER RAIL NOT SHOWN IN DETAILS.

LATEST REVISION DATE 03-07 APPROVED BY BRIDGE ENGINEER <i>Norman E. McQuinn</i>	 Iowa Department of Transportation Highway Division	
	STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES ROLLED STEEL BEAM BRIDGES FEBRUARY, 2004	
	ABUTMENT DETAILS 0° SKEW	RS40-21-04