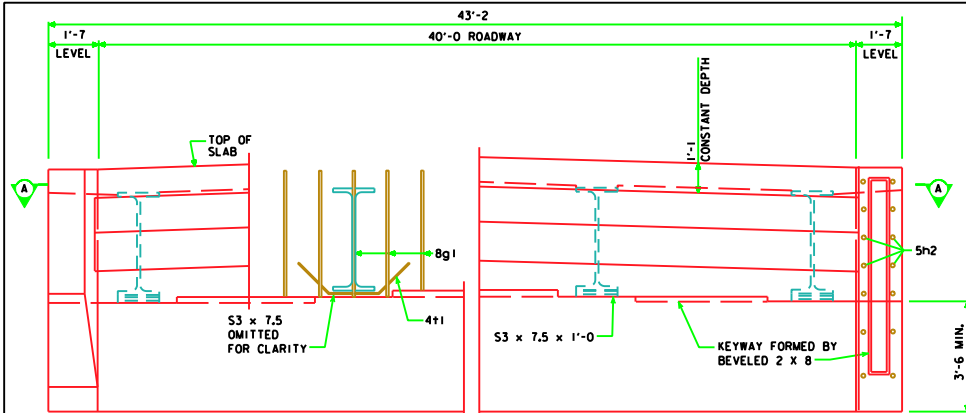


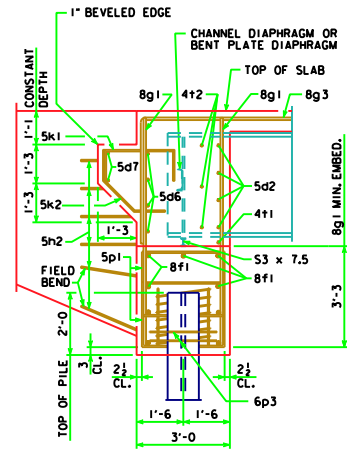
REVISION - 03-07 - CHANGED TO ALL EPOXY, PAVING NOTCH EXTENDED. PILE SIZE NOTE AND BARRIER RAIL NOTE ADDED.



PART REAR ELEVATION AT ABUTMENT

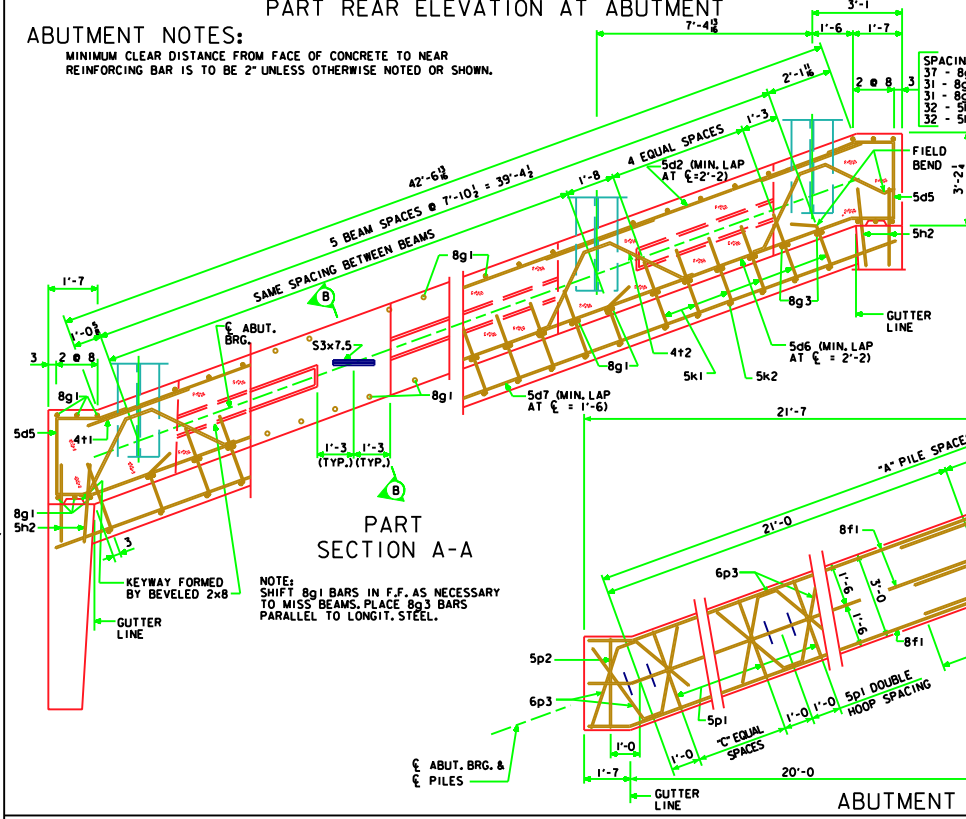
ABUTMENT NOTES:

MINIMUM CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR 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, 2 1/2" DIAMETER, 3" PITCH WITH 2 - L 1/2 x 1/2 x 1/2 SPACERS PUNCHED TO HOLD SPIRAL.



PART SECTION A-A

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

SPACING FOR:
37 - 8g1 BACK FACE
31 - 8g1 FRONT FACE
31 - 8g3 BACK FACE
32 - 5k1 BACK FACE
32 - 5k2 BACK FACE

PART SECTION B-B

ABUTMENT PILE SPACING

DIMENSION OR NO.	ξ TO ξ ABUTMENT BEARING						
	160'-0"	180'-0"	200'-0"	220'-0"	240'-0"	260'-0"	280'-0"
"A" (IN)	6	6	7	7	7	8	8
"B" (FT-IN)	7'-0"	7'-0"	6'-0"	6'-0"	6'-0"	5'-3"	5'-3"
"C" EQUAL SPACES	5	5	4	4	4	3	3
NO. OF PILES PER ABUT.	7	7	8	8	8	9	9
DESIGN PILE LOAD (TONS)	35	37	34	35	37	34	37

NOTE: HP 10 x 42 STEEL BEARING PILING REQUIRED.

NOTE: ABUTMENT STEP DIAGRAM PROVIDED BY DESIGNER, SEE "ESTIMATED BRIDGE QUANTITIES" SHEET.

NOTE: BARRIER RAIL NOT SHOWN IN DETAILS.

LATEST REVISION DATE
03-07

APPROVED BY BRIDGE ENGINEER
Thomas L. McQuinn

Iowa Department of Transportation
Highway Division

STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES
ROLLED STEEL BEAM BRIDGES
FEBRUARY, 2004

ABUTMENT DETAILS
20° SKEW

RS40-23-04