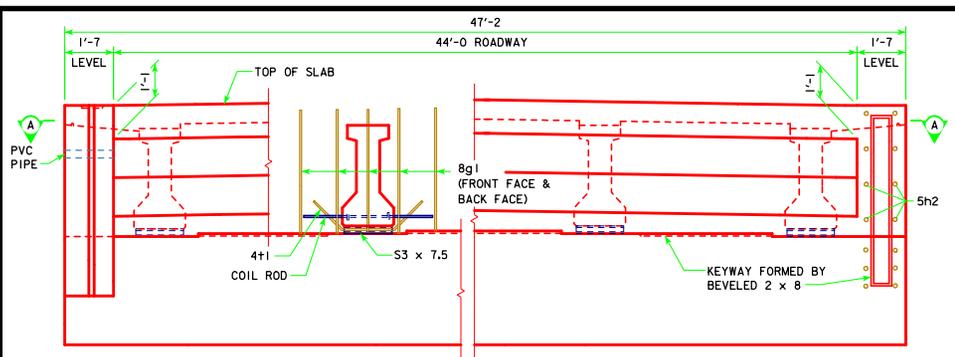
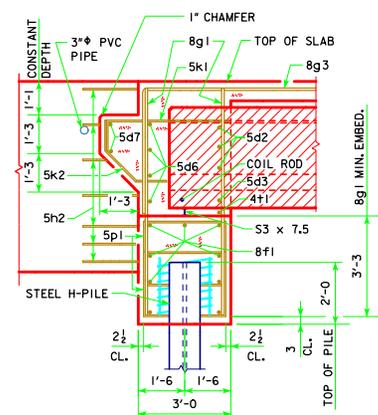


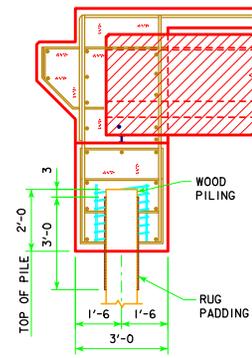
REVISED 05-13 - REVISION FOR LRFD PILE DESIGN.



PART REAR ELEVATION AT ABUTMENT
NOTE: TOP OF ABUTMENT SHOWN FOR SOLID BARRIER RAIL



PART SECTION B-B
(FOR STEEL H-PILING)

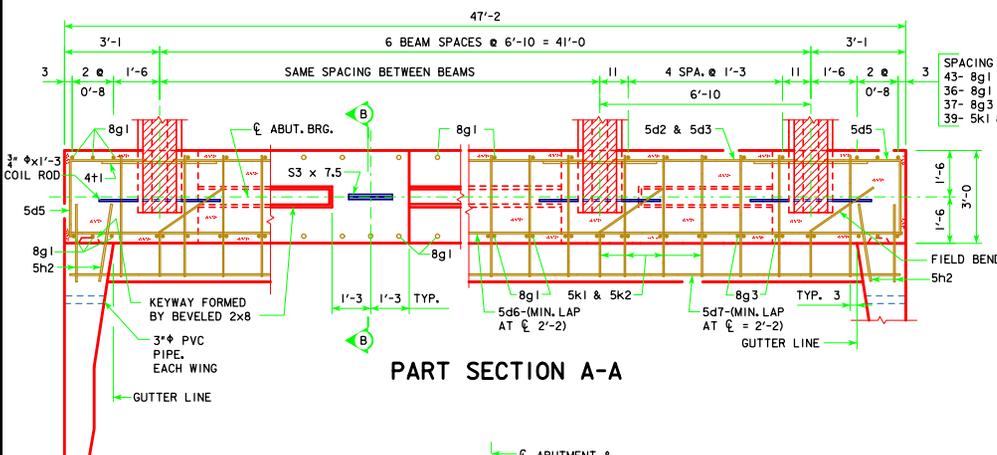


PART SECTION B-B
(FOR WOOD PILING)

WOOD PILING NOTE:
AFTER PILES ARE CUT OFF, THE UPPER 3', EXCEPT AS SHOWN, IS TO BE WRAPPED WITH A DOUBLE THICKNESS OF RUG PADDING HELD IN PLACE BY TACKING WITH GALVANIZED ROOFING NAILS AND WRAPPED WITH #14 GAUGE GALVANIZED WIRE AT A 4' PITCH, CARE IS TO BE TAKEN NOT TO DAMAGE PADDING WHEN PLACING CONCRETE. RUG PADDING MAY BE EITHER OF THE FOLLOWING:

- (1) HAIR AND JUTE RUG PADDING, RUBBERIZED ON BOTH SIDES, AND WEIGHING NOT LESS THAN 47 OZ. PER SQ. YD.
- (2) BONDED URETHANE OR BONDED POLYFOAM WITH A MINIMUM DENSITY OF 5 LBS. PER CU. FT. AND SHALL BE AT LEAST 1/2 IN. THICK, (MATERIAL LESS THAN 1/2 IN. IN THICKNESS MAY BE USED, BUT WILL REQUIRE ADDITIONAL WRAPS FOR A TOTAL OF AT LEAST ONE INCH).

NOTE:
THE SPIRAL AT THE TOP OF EACH PILE TO BE 7 TURNS OF NO. 2 BAR, 21\"/>



PART SECTION A-A

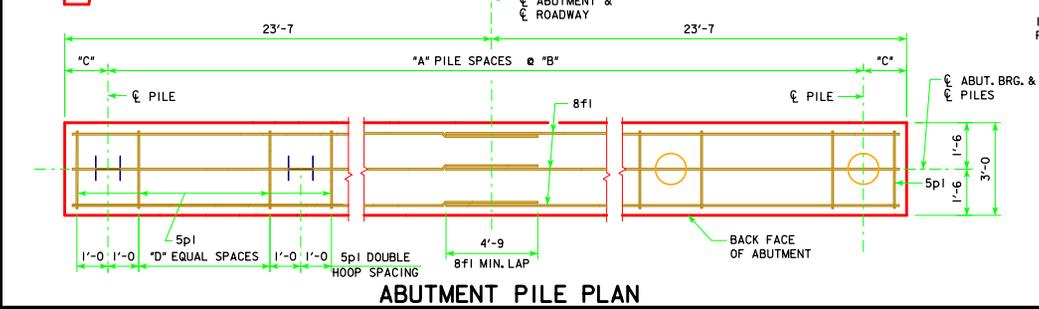
SPACING FOR:
43- 8g1 BACK FACE
36- 8g1 FRONT FACE
37- 8g3 BACK FACE
39- 5k1 & 5k2 BACK FACE

ABUTMENT NOTES:

- MINIMUM CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR REINFORCING BAR IS TO BE 2\"/>
- 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 SHALL BE DRIVEN TO VALUES SHOWN IN DESIGN PLANS.
- PLACE 5h2 BAR AT 1:6 SLOPE TO MATCH TRAFFIC SIDE OF ABUTMENT WING FACE. (BOTH SIDES TYPICAL)
- BARRIER RAIL NOT SHOWN IN DETAILS.
- IF ROCK IS CLOSER THAN 15' BELOW ABUTMENT FOOTING, SPECIAL ANALYSIS MAY BE REQUIRED.

	ABUTMENT PILE SPACING	ℓ-ℓ ABUT. BRG.				
		138'-10	151'-4	163'-10	176'-4	188'-10
WITH WOOD PILES	"A" PILE SPACES	14	14	16	16	17
	"B" (FT. - IN.)	3'-0	3'-0	2'-8	2'-8	2'-6
	"C" (FT. - IN.)	2'-7	2'-7	2'-3	2'-3	2'-4
	"D" EQUAL SPACES	1	1	1	1	1
	NO. OF PILES PER ABUT.	15	15	17	17	18
WITH STEEL H-PILES	"A" PILE SPACES	6	6	6	7	7
	"B" (FT. - IN.)	7'-1	7'-1	7'-1	6'-1	6'-1
	"C" (FT. - IN.)	2'-4	2'-4	2'-4	2'-3 1/2	2'-3 1/2
	"D" EQUAL SPACES	5	5	5	4	4
	NO. OF PILES PER ABUT.	7	7	7	8	8
PU, STRENGTH I DESIGN LOAD (KIPS)	129	134	144	131	135	

NOTE: PU, STRENGTH I DESIGN LOAD (KIPS) IS NOT THE VALUE USED IN THE FIELD FOR DRIVING PILES.



ABUTMENT PILE PLAN

LATEST REVISION DATE
05-13
APPROVED BY BRIDGE ENGINEER
Thomas E. M. [Signature]

Iowa Department of Transportation
Highway Division
STANDARD DESIGN - 44' ROADWAY, THREE SPAN BRIDGE
PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES
MARCH, 2007

ABUTMENT DETAILS
0° SKEW A & B BEAMS
H44-05-07