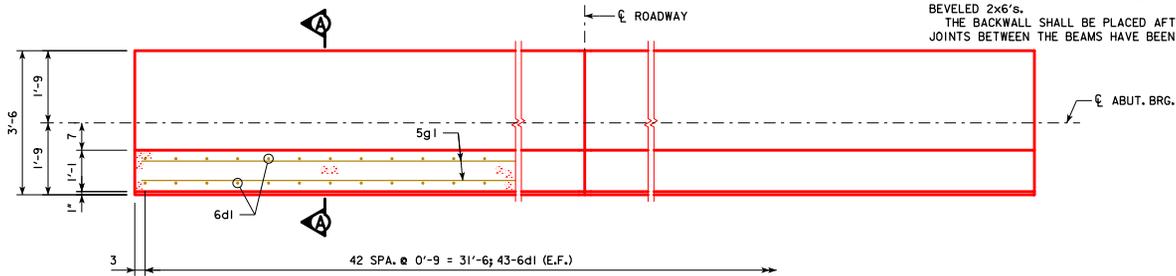
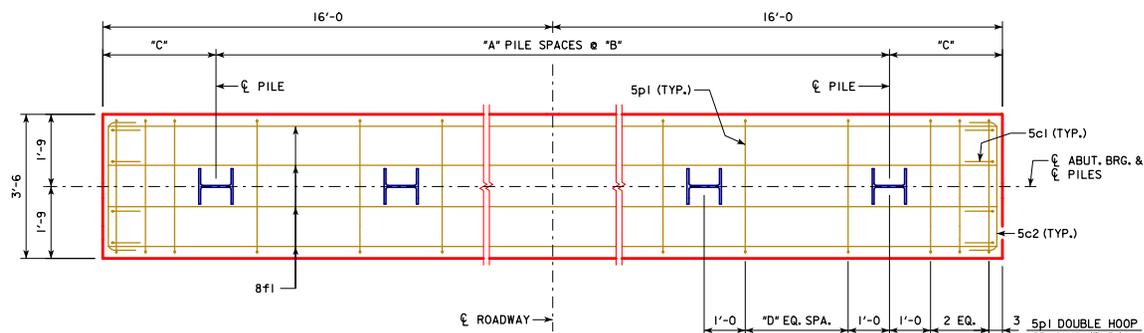


REAR ELEVATION AT ABUTMENT

ABUTMENT NOTES:
 MINIMUM CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR REINFORCING BAR IS TO BE 2" UNLESS OTHERWISE NOTED OR SHOWN.
 ABUTMENT PILES SHALL BE DRIVEN TO VALUES SHOWN IN THE DESIGN PLANS.
 CONSTRUCTION KEYWAYS ARE TO BE FORMED WITH BEVELED 2x6's.
 THE BACKWALL SHALL BE PLACED AFTER THE UHPC JOINTS BETWEEN THE BEAMS HAVE BEEN COMPLETED.



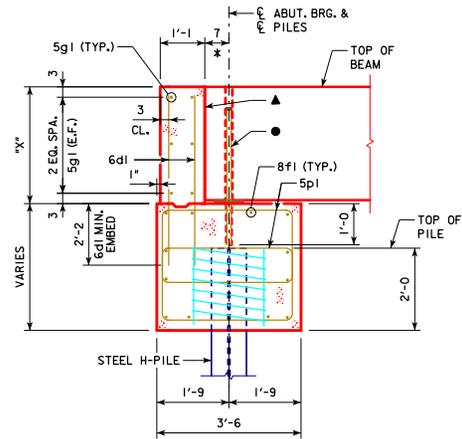
PART SECTION THROUGH BACKWALL PART PLAN VIEW



ABUTMENT PILE PLAN

	ABUTMENT DATA									
	REINFORCED CONCRETE BOX BEAMS			PRETENSIONED PRESTRESSED CONCRETE BOX BEAMS						
SPAN	30'-0"	40'-0"	50'-0"	30'-0"	40'-0"	50'-0"	60'-0"	70'-0"	70'-0"	70'-0"
X (FT. - IN.)	2'-4 1/4	2'-4 3/4	2'-10 1/4	1'-10 1/4	1'-10 1/4	2'-4 1/4	2'-4 1/4	2'-10 1/4	2'-10 1/4	2'-10 1/4
A PILE SPACES	4	4	4	4	4	4	5	6	6	6
B (FT. - IN.)	6'-9	6'-9	6'-9	6'-9	6'-9	6'-9	5'-4	4'-6	4'-6	4'-6
C (FT. - IN.)	2'-6	2'-6	2'-6	2'-6	2'-6	2'-6	2'-8	2'-6	2'-6	2'-6
D EQUAL SPACES	6	6	6	6	6	6	4	3	3	3
NO. OF HPI0x57 PILES PER ABUT.	5	5	5	5	5	5	6	7	7	7
Pu, STRENGTH I DESIGN LOAD (KIPS)	107	124	144	104	120	139	130	126	126	126

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



SECTION A-A

NOTES:
 • 1/4" SMOOTH DOWELS (A36). DRILL A 1 1/2" HOLE 12" DEEP INTO ABUTMENT AFTER BEAMS ARE IN PLACE. USE LOW IMPACT ROTARY DRILL. PLACE 2" x 1" THICK POLYSTYRENE PLUG ON TOP OF DOWEL. PRIOR TO SETTING DOWEL, FILL HOLE TO A DEPTH OF 4" WITH A POLYMER GROUT SYSTEM IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. FILL REMAINDER OF HOLE ABOVE PLUG WITH NON-SHRINK GROUT.
 * THIS DIMENSION MAY VARY. TILTING OF THE BACKWALL DURING CONSTRUCTION MAY BE NECESSARY TO ACCOMMODATE BEAM CAMBER AND LONGITUDINAL GRADE.
 THE SPIRAL AT THE TOP OF EACH PILE TO BE 7 TURNS OF NO. 2 BAR, 21" DIAMETER, 3" PITCH WITH 3-1/4" x 1/4" x 1/4" SPACERS PUNCHED TO HOLD SPIRAL.
 ▲ FOR CAST-IN-PLACE ABUTMENT BACKWALLS, CAST BACKWALL CONCRETE DIRECTLY AGAINST ENDS OF CONCRETE BOXES.

LATEST REVISION DATE	 APPROVED BY BRIDGE ENGINEER	 STANDARD DESIGN - 24'-0" ROADWAY, SINGLE SPAN CONCRETE BOX BEAM BRIDGES	B24-10-16
		DECEMBER, 2016	
		ABUTMENT DETAILS (CAST-IN-PLACE) SHEET PILE WINGS 0° SKEW (SHEET 1 OF 2)	