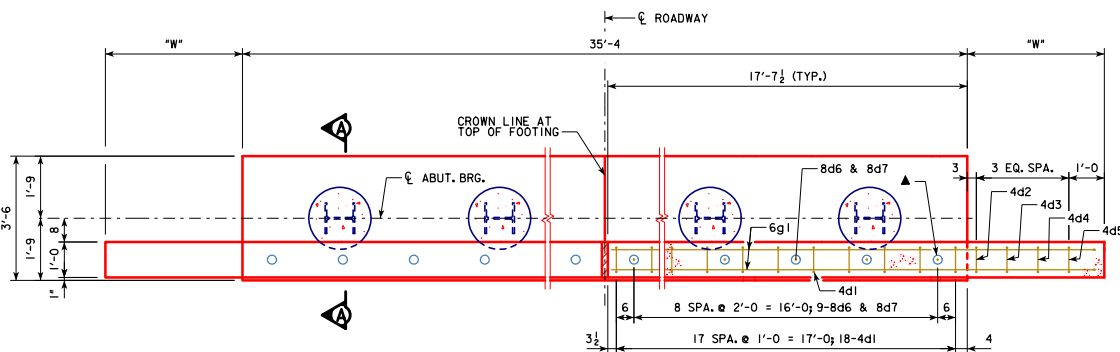
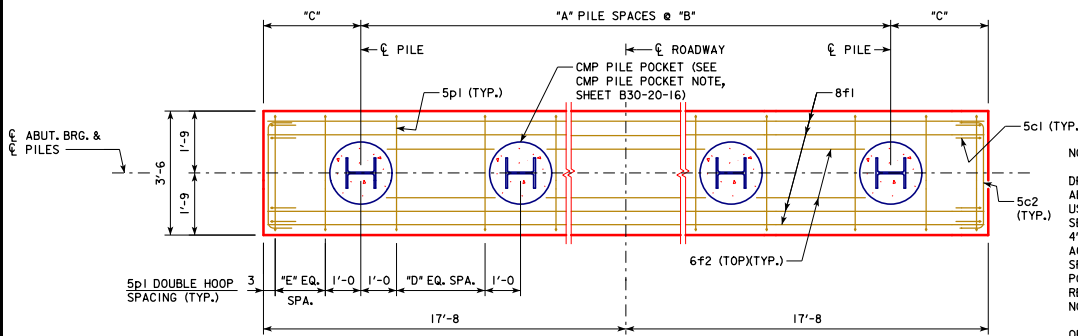


REAR ELEVATION AT ABUTMENT



PART PLAN VIEW

PART SECTION THROUGH BACKWALL

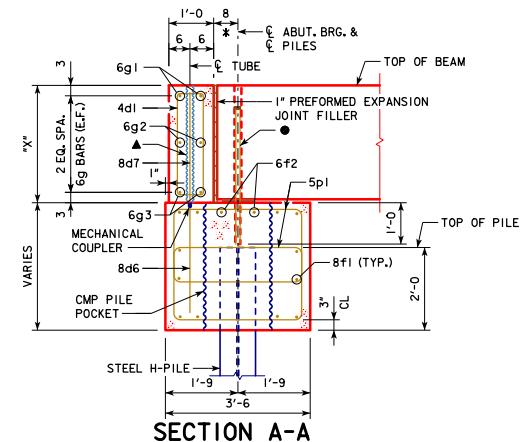


ABUTMENT PILE PLAN

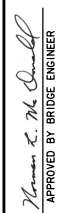

NOTES:
 • 1 1/2" SMOOTH DOWELS (A36). DRILL A 1 1/2" HOLE 12" DEEP INTO ABUTMENT AFTER BEAMS ARE IN PLACE. USE LOW IMPACT ROTARY DRILL. PRIOR TO SETTING DOWEL, FILL HOLE TO A DEPTH OF 4" WITH A POLYMER GROUT SYSTEM IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. PLACE 2" x 1" THICK POLYSTYRENE PLUG ON TOP OF DOWEL. 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.
 ▲ 3" DIAMETER PLASTIC CORRUGATED TUBE. COVER TOP OF DOWELS WITH 2" OF GROUT.

	ABUTMENT DATA (0° SKEW)							
	SPAN	REINFORCED CONCRETE BOX BEAMS			PRETENSIONED PRESTRESSED CONCRETE BOX BEAMS			
		30'-0	40'-0	50'-0	30'-0	40'-0	50'-0	60'-0
*W (FT. - IN.)	4'-0	4'-0	4'-0	3'-0	3'-0	4'-0	4'-0	4'-0
*X (FT. - IN.)	2'-4 1/2	2'-4 1/2	2'-10 1/2	1'-10 1/2	1'-10 1/2	2'-4 1/2	2'-4 1/2	2'-10 1/2
*Y (FT. - IN.)	2'-0	2'-0	2'-0	1'-6	1'-6	2'-0	2'-0	2'-0
*Z (FT. - IN.)	2'-4	2'-4	2'-10	2'-4	2'-4	2'-4	2'-4	2'-10
*A PILE SPACES	4	4	5	4	4	5	6	7
*B (FT. - IN.)	7'-7	7'-7	6'-3	7'-7	7'-7	6'-3	5'-4	4'-6
*C (FT. - IN.)	2'-6	2'-6	2'-0 1/2	2'-6	2'-6	2'-0 1/2	1'-8	1'-11
*D EQUAL SPACES	6	6	5	6	6	5	4	3
*E EQUAL SPACES	2	2	1	2	2	1	1	1
NO. OF PILES PER ABUT.	5	5	6	5	5	6	7	8
P _u STRENGTH I DESIGN LOAD (KIPS)	123	144	142	118	138	136	130	131

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



SECTION A-A

LATEST REVISION DATE	 APPROVED BY BRIDGE ENGINEER	 STANDARD DESIGN - 30'-0 ROADWAY, SINGLE SPAN CONCRETE BOX BEAM BRIDGES	
		DECEMBER, 2016	
		ABUTMENT DETAILS (PRECAST) CONCRETE WINGS 0° SKEW	B30-19-16