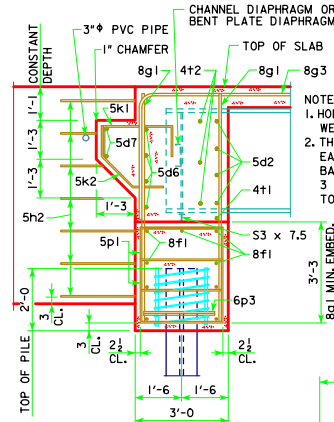


**PART REAR ELEVATION AT ABUTMENT**



**PART SECTION B-B**

**ABUTMENT NOTES:**

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

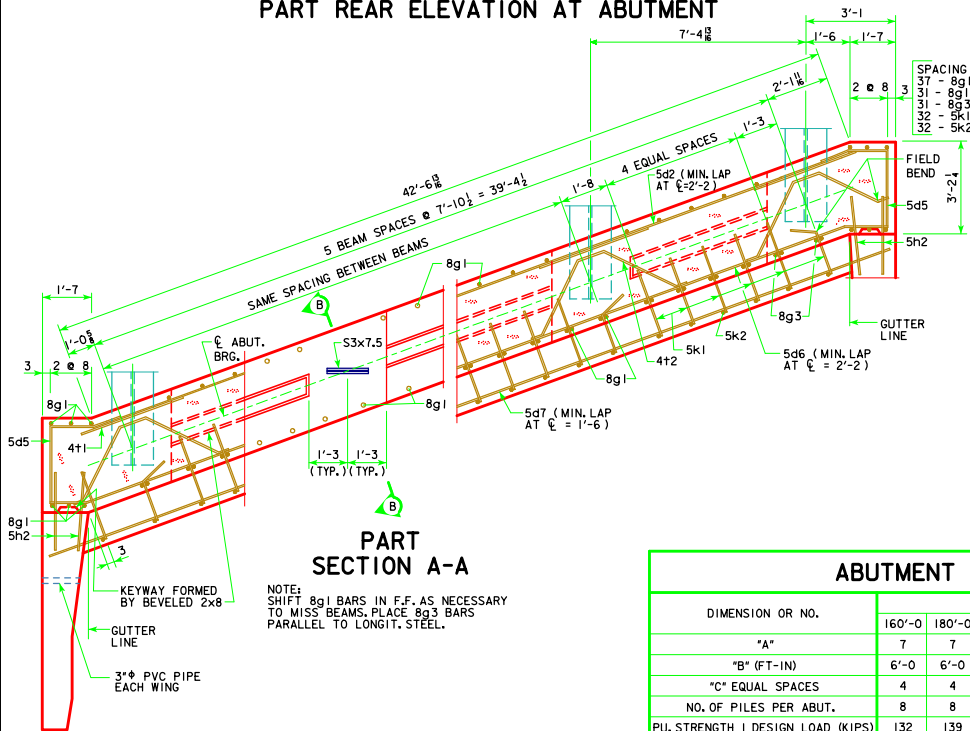
IF NECESSARY TO PREVENT DAMAGE TO THE END OF THE BRIDGE DECK OR BACKWALL FROM CONSTRUCTION EQUIPMENT, AN APPROPRIATE METHOD OF PROTECTION APPROVED BY THE ENGINEER SHALL BE PROVIDED BY THE BRIDGE CONTRACTOR AT NO EXTRA COST TO THE COUNTY OR STATE.

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.



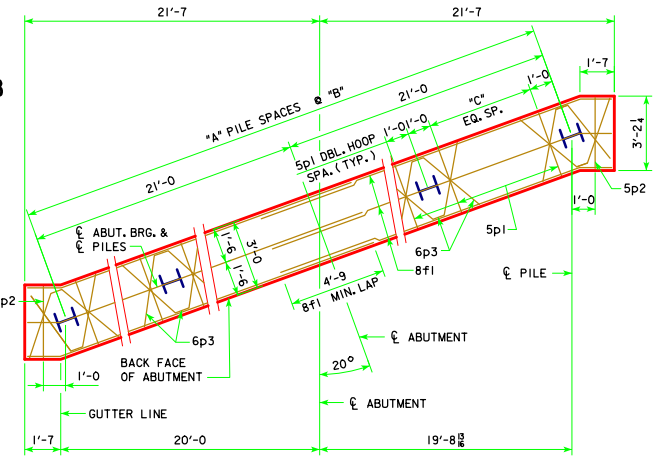
**PART SECTION A-A**

SPACING FOR:  
 8g1 BACK FACE  
 8g1 FRONT FACE  
 8g3 BACK FACE  
 5k1 BACK FACE  
 5k2 BACK FACE

**ABUTMENT PILE SPACING**

DIMENSION OR NO.	CL TO CL ABUTMENT BEARING										
	160'-0"	180'-0"	200'-0"	220'-0"	240'-0"	260'-0"	280'-0"	300'-0"	320'-0"		
"A"	7	7	7	8	8	8	9	9	9		
"B" (FT-IN)	6'-0"	6'-0"	6'-0"	5'-3"	5'-3"	5'-3"	4'-8"	4'-8"	4'-8"		
"C" EQUAL SPACES	4	4	4	3	3	3	3	3	3		
NO. OF PILES PER ABUT.	8	8	8	9	9	9	10	10	10		
P <sub>U</sub> STRENGTH   DESIGN LOAD (KIPS)	132	139	145	133	138	144	132	137	139		

NOTE: HP 10 x 57 STEEL BEARING PILING REQUIRED.  
 NOTE: P<sub>U</sub> STRENGTH | DESIGN LOAD (KIPS) IS NOT THE VALUE USED IN THE FIELD FOR DRIVING PILES.



**ABUTMENT PILE PLAN**

NOTE:  
 ABUTMENT STEP DIAGRAM PROVIDED BY DESIGNER, SEE "GENERAL INFORMATION" SHEET (WORKING STANDARD 5251).

LATEST REVISION DATE	APPROVED BY BRIDGE ENGINEER		STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES
			<b>ROLLED STEEL BEAM BRIDGES</b>
			OCTOBER, 2014
<b>ABUTMENT DETAILS</b>		<b>20° SKEW</b>	
		<b>RS40-011-14</b>	