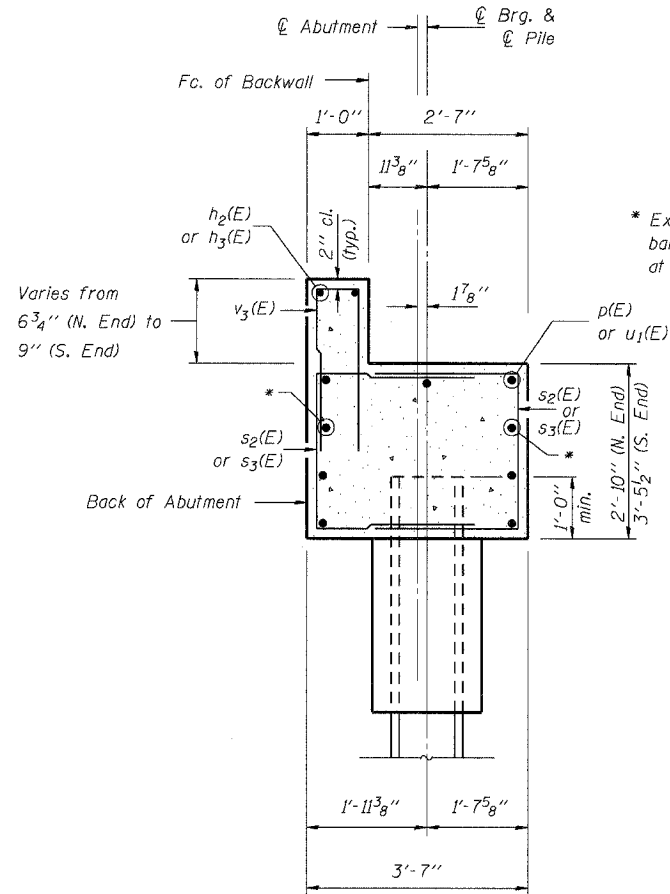
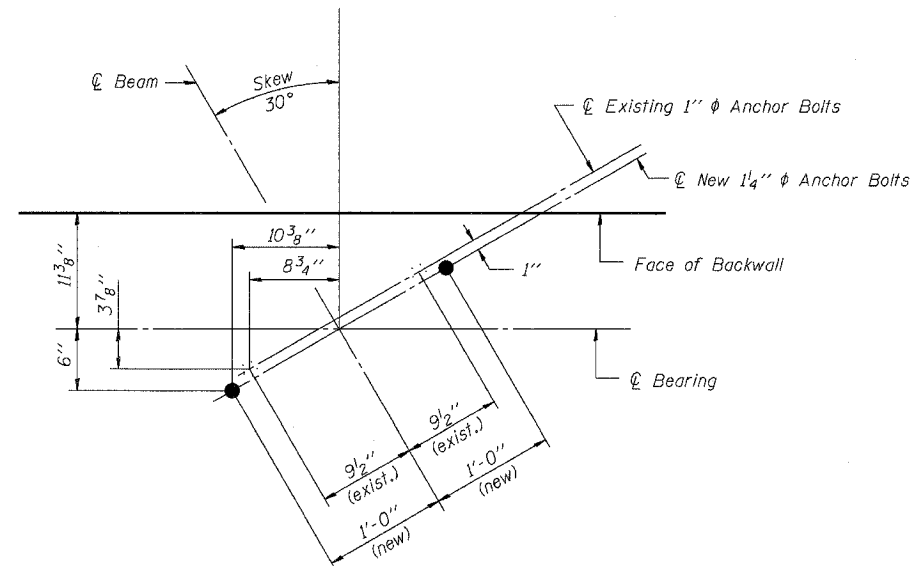


**SEC. A-A**  
(Dimensions at Rt. Δ 's)



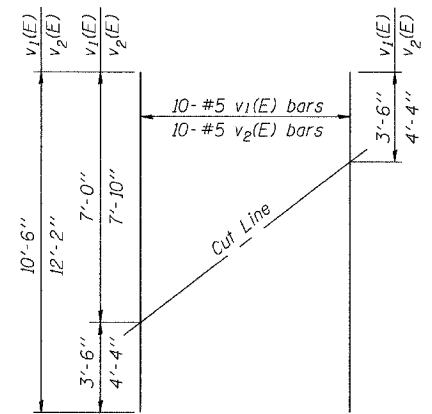
**SEC. B-B**  
(Dimensions at Rt. Δ 's)



**ANCHOR BOLT LAYOUT AT ABUTMENTS**

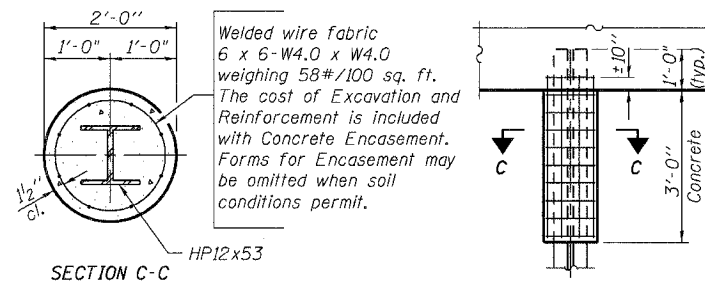
**TWO ABUTMENTS  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
$h_1(E)$	36	#5	11'-11"	—
$h_2(E)$	32	#5	9'-3"	—
$h_3(E)$	4	#4	24'-0"	—
$h_4(E)$	4	#4	26'-3"	—
$p(E)$	32	#7	5'-0"	—
$s_2(E)$	28	#5	8'-6"	⊏
$s_3(E)$	28	#5	9'-1"	⊏
$u_1(E)$	14	#7	13'-1"	⊏
$v_1(E)$	20	#5	10'-6"	—
$v_2(E)$	20	#5	12'-2"	—
$v_3(E)$	24	#4	5'-3"	⊏
$v_4(E)$	164	#4	2'-1"	⊏
Structure Excavation		Cu. Yd.	398	
Concrete Structures		Cu. Yd.	20.3	
Reinforcement Bars, Epoxy Coated		Pound	2,900	
Bar Splicers		Each	4	
Furnishing Steel Piles HP12x53		Foot	160	
Driving Steel Piles		Foot	160	
Concrete Encasement		Cu. Yd.	1.4	

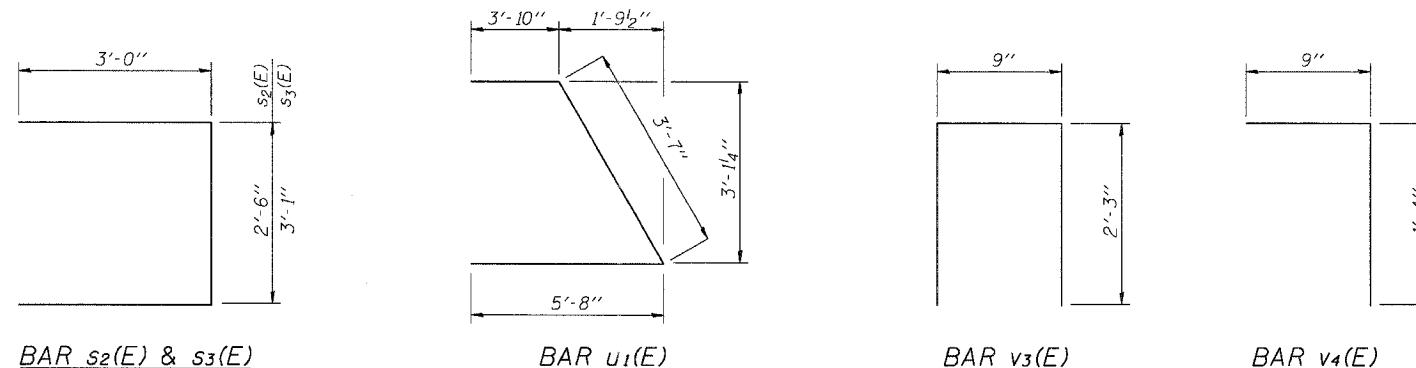


**FIELD CUTTING DIAGRAM FOR  $v_1(E)$  &  $v_2(E)$  BARS**

Order bars full length. Cut as shown and use remainder of bars in opposite face.



**PILE ENCASEMENT DETAIL**



Notes:  
Work this sheet with sheet 14 of 19.  
Reinforcement bars designated (E) shall be epoxy coated.  
Space drilled holes in existing cap to miss existing reinforcement.  
Epoxy grout  $p(E)$  and  $v_4(E)$  bars in accordance with Section 584 of the Standard Specifications. Minimum embedment = 9".  
See sheet 17 of 19 for bar splicer details.

DESIGNED	Ruben V. Boehler
CHECKED	Tim S. Howard
DRAWN	TSH / RVB
CHECKED	Michael D. Cummins

**ABUTMENT DETAILS**

IL ROUTE 15 OVER SEVEN MILE CREEK  
F.A.P. ROUTE 821 SECTION (15-21BR)  
JEFFERSON COUNTY  
STA. 129+81.00  
S.N. 041-0027