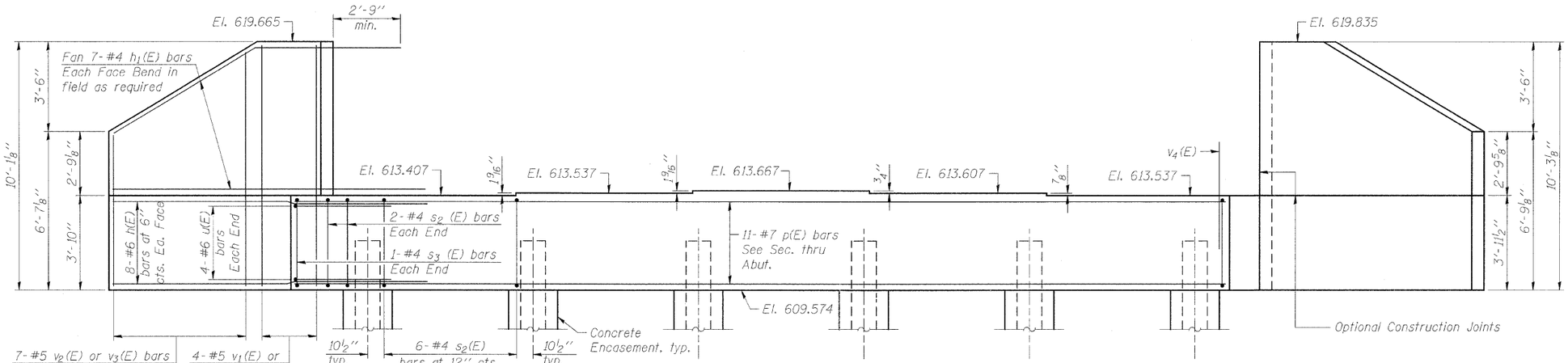
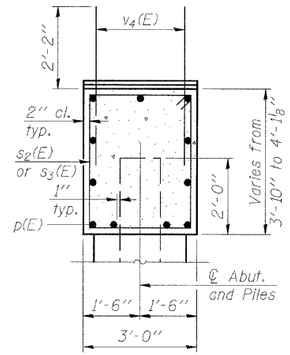
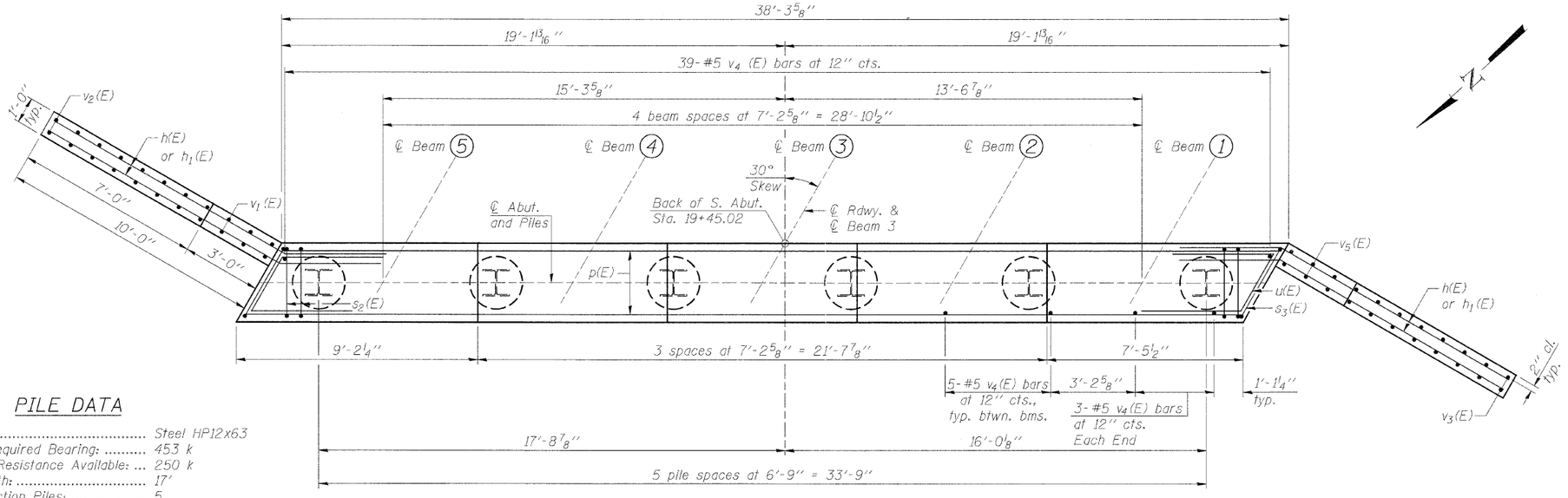


ELEVATION
(Looking South)



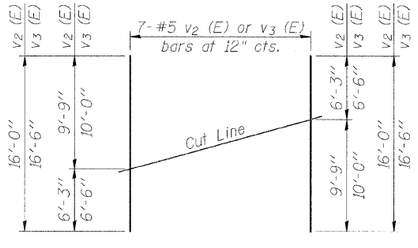
SEC. THRU ABUT.



PLAN

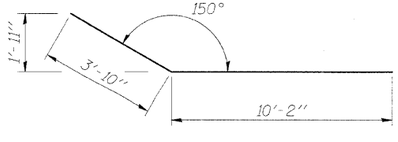
PILE DATA

Type:	Steel HP12x63
Nominal Required Bearing:	453 k
Factored Resistance Available:	250 k
Est. Length:	17'
No. Production Piles:	5
No. Test Piles:	1

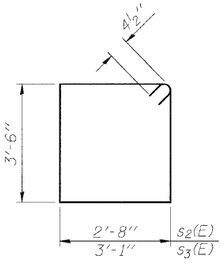


FIELD CUTTING DIAGRAM

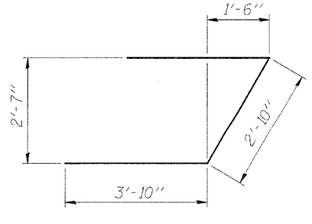
Order $v_2(E)$ & $v_3(E)$ full length. Cut as shown and use remainder of bars in opposite face.



BAR h(E)



BARS s2(E) & s3(E)



BAR u(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	32	#6	14'-0"	
$h_1(E)$	28	#4	13'-3"	
p(E)	11	#7	38'-0"	
$s_2(E)$	34	#4	13'-1"	
$s_3(E)$	2	#4	13'-11"	
u(E)	8	#6	10'-6"	
$v_1(E)$	8	#5	9'-10"	
$v_2(E)$	7	#5	16'-0"	
$v_3(E)$	7	#5	16'-6"	
$v_4(E)$	65	#5	4'-4"	
$v_5(E)$	8	#5	10'-0"	
Porous Granular Embankment, Special		Cu. Yd.	93	
Structure Excavation		Cu. Yd.	86	
Concrete Structures		Cu. Yd.	23.5	
Concrete Encasement		Cu. Yd.	2.1	
Reinforcement Bars, Epoxy Coated		Pound	2,910	
Furnishing Steel Piles HP12x63		Foot	85	
Driving Piles		Foot	85	
Test Pile Steel HP12x63		Each	1	
Geocomposite Wall Drain		Sq. Yd.	63	
Concrete Headwall for Pipe Drains		Each	2	
Pipe Underdrains for Structures 4"		Foot	101	

NOTES:

For details of Bar Splicers, see Structural Sheet 17 of 18.

For details of Piles and Concrete Encasement, see Structural Sheet 16 of 18.

*See Riprap & Pile Layout, see Structural Sheet 2 of 18 for details.

Pour steps monolithically with cap.

All exposed edges shall have standard ¾" chamfers, except as noted.

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T: 815-284-3361 DESIGN FIRM: #184-000918

DESIGNED - B.K.C.	REVISED -	
CHECKED - M.A.C	REVISED -	
DRAWN - F.D.L.	REVISED -	
CHECKED - B.K.C.	REVISED -	

LASALLE COUNTY
C.H. 13 OVER TOMAHAWK CREEK
STATION 20+00

SOUTH ABUTMENT DETAILS
STRUCTURE NO. 050-3604
STRUCTURAL SHEET NO. 14 OF 18 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
260	10-00651-00-BR	LASALLE	51	31
	WHA# 1156D08	CONTRACT NO. 87466		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT BRS-0260(105)		

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