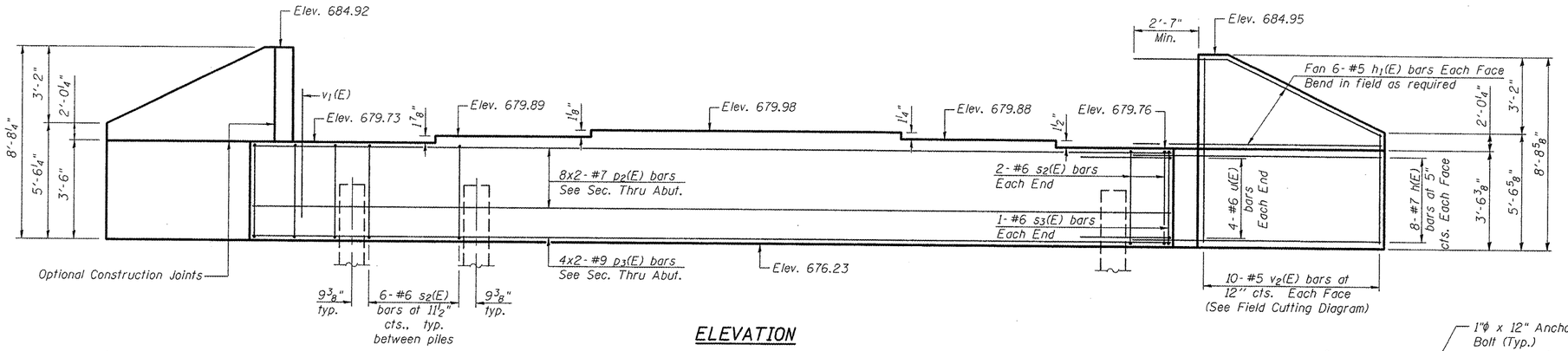
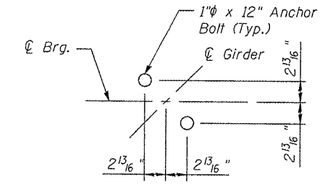
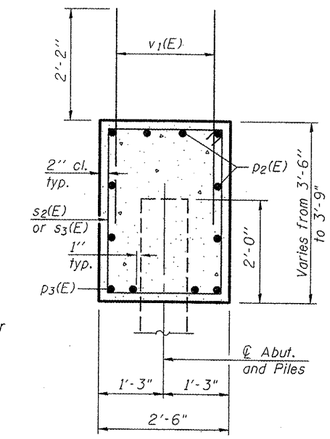
Notes:
Pour steps monolithically with cap.
Space reinforcement to miss anchor bolts.



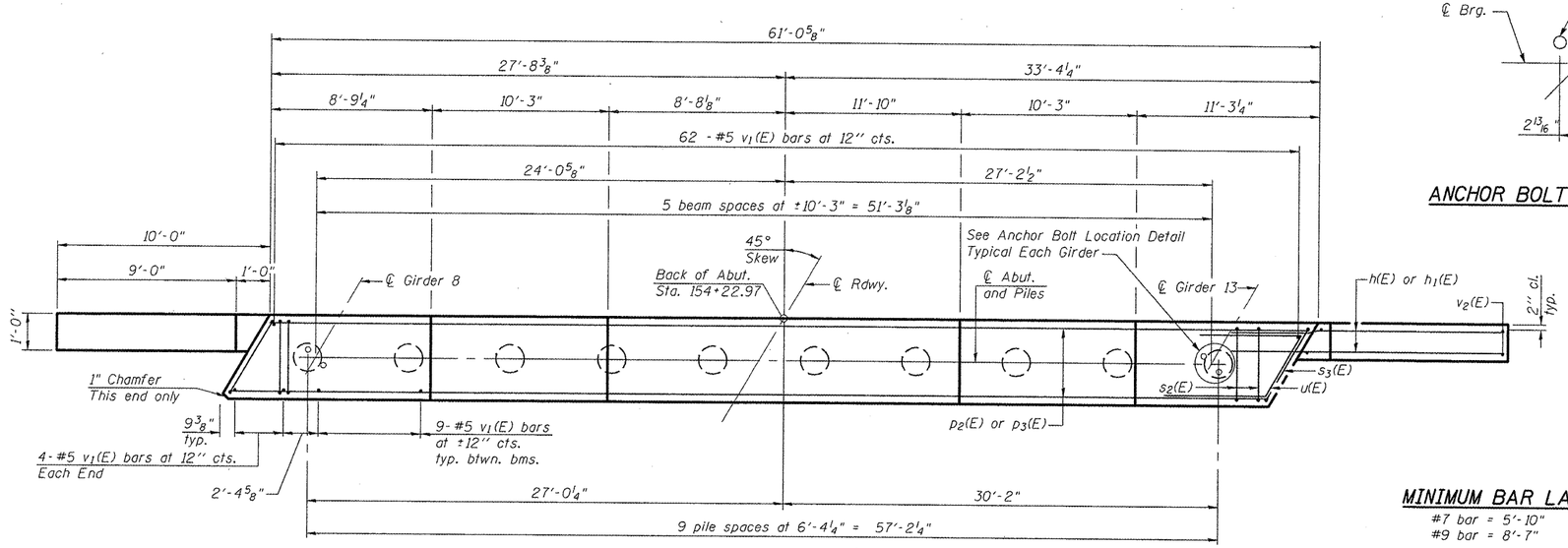
ELEVATION



ANCHOR BOLT LOCATION DETAIL



SEC. THRU ABUT.



PLAN

MINIMUM BAR LAP

#7 bar = 5'-10"
#9 bar = 8'-7"

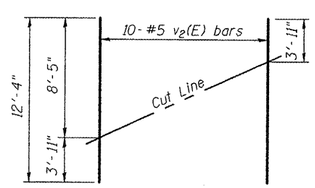
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	32	#7	14'-3"	
$h_1(E)$	24	#5	14'-3"	
$p_2(E)$	16	#7	33'-4"	
$p_3(E)$	8	#9	34'-9"	
$s_2(E)$	58	#6	12'-0"	
$s_3(E)$	2	#6	13'-8"	
u(E)	8	#6	13'-0"	
$v_1(E)$	115	#5	4'-4"	
$v_2(E)$	20	#5	12'-4"	
Structure Excavation			Cu. Yd.	41
Concrete Structures			Cu. Yd.	25.6
Reinforcement Bars, Epoxy Coated			Pound	5,340
Furnishing Metal Shell Piles 14" X 0.312"			Foot	783
Driving Piles			Foot	783
Test Pile Metal Shells			Each	1

For details of piles see sheet 29 of 35.

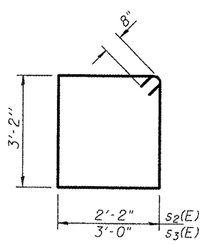
PILE DATA

Type: Metal Shell - 14"φ with 0.312" walls
Nominal Required Bearing: 507 Kips/Pile
Factored Resistance Available: 279 Kips/Pile
Est. Length: 87 Ft./Pile
No. Production Piles: 9
No. Test Piles: 1

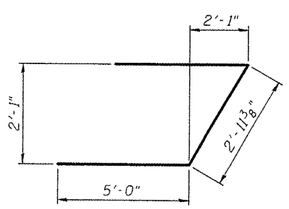


FIELD CUTTING DIAGRAM

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



BARS $s_2(E)$ & $s_3(E)$



BAR u(E)

FILE NAME = P:\07files\070286\Phase2\Bridge Plans\28_S_ABUT_0081.dgn	USER NAME = seb	DESIGNED - KTH	REVISED -
	PLOT SCALE = 0:2.0000 ':' / IN.	CHECKED - ADL	REVISED -
	PLOT DATE = 12/7/2011	DRAWN - BGJ	REVISED -
		CHECKED - RJP	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT
S.N. 055-0081 (SB)

SHEET NO. 28 OF 35 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(38B-2)BR	MCDONOUGH	130	85

CONTRACT NO. 68691
ILLINOIS FED. AID PROJECT

Klingner & Associates P.C.