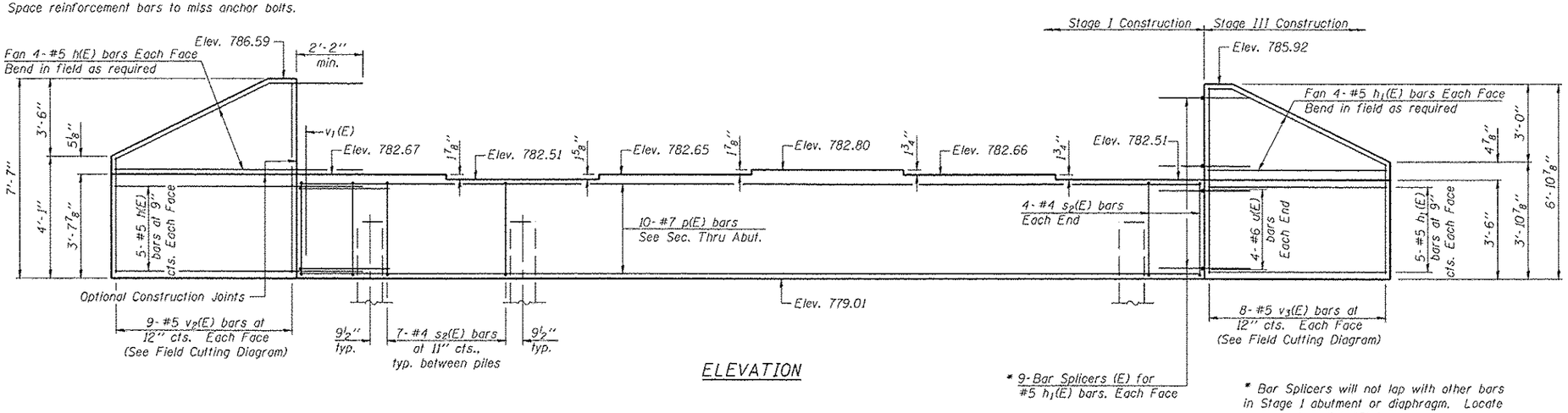
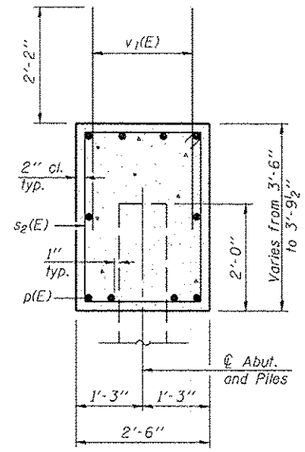
Notes:
Pour steps monolithically with cap.
Space reinforcement bars to miss anchor bolts.

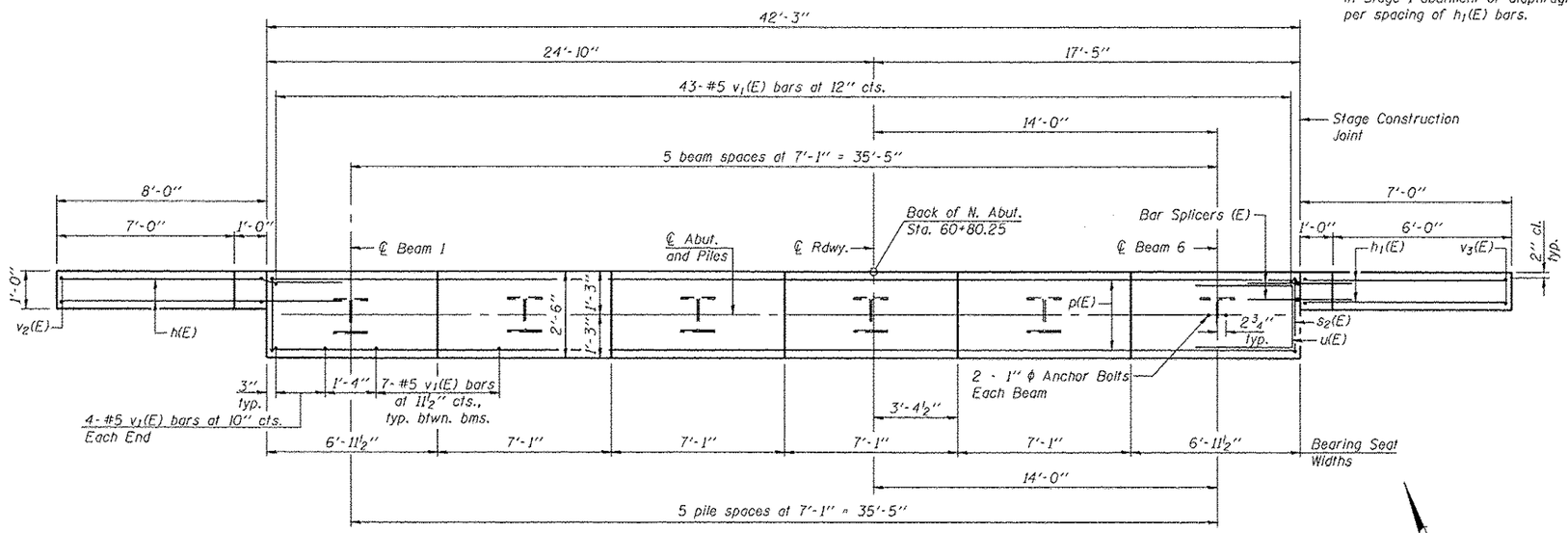


ELEVATION

* Bar Splicers will not lap with other bars in Stage 1 abutment or diaphragm. Locate per spacing of $h_1(E)$ bars.



SEC. THRU ABUT.



PLAN

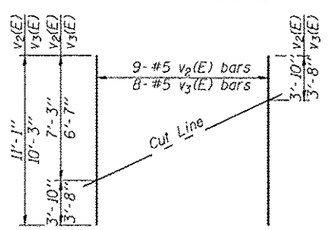
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	18	#5	10'-10"	
$h_1(E)$	18	#5	6'-8"	
p(E)	10	#7	41'-11"	
$s_2(E)$	43	#4	11'-5"	
u(E)	8	#6	9'-1"	
$v_1(E)$	86	#5	4'-4"	
$v_2(E)$	9	#5	11'-1"	
$v_3(E)$	8	#5	10'-3"	
Structure Excavation		Cu. Yd.	26	
Concrete Structures		Cu. Yd.	19.0	
Reinforcement Bars, Epoxy Coated		Pound	2200	
Furnishing Steel Piles HP10x42		Foot	324	
Driving Piles		Foot	324	
Pile Shoes		Each	6	

For details of Bar Splicers, see sheet 22 of 26.
For details of piles, see sheet 21 of 26.
Piles shall be driven through 18 in. diameter precored holes extending to elevation 770.0 according to Article 512.09(c) of the Standard Specifications. Cost included in driving piles.

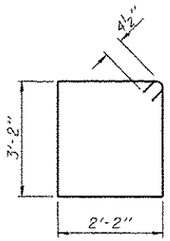
PILE DATA

Type: Steel-HP10x42 with pile shoes
Nominal Required Bearing: 335 kips
Factored Resistance Available: 184 kips
Est. Length: 54 ft.
No. Production Piles: 6
No. Test Piles: 0

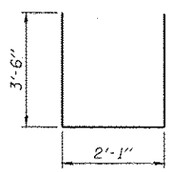


FIELD CUTTING DIAGRAM

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



BAR s2(E)



BAR u(E)

FILE NAME = 048G063-09625-B17-Abutment.dgn	USER NAME = baswanson	DESIGNED - LVM	REVISED -
MAURER-STUTZ ENGINEERS SURVEYORS		CHECKED - BAS	REVISED -
	PLOT SCALE =	DRAWN - SGM	REVISED -
	PLOT DATE = 1/3/2013	CHECKED - BAS	REVISED -

CITY OF GALESBURG

NORTH ABUTMENT
STRUCTURE NO. 048-6063
SHEET NO. 18 OF 26 SHEETS

M.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
651	07-00651-03-BR	KNOX	67	46
	ILLINOIS	CONTRACT NO. 89625		