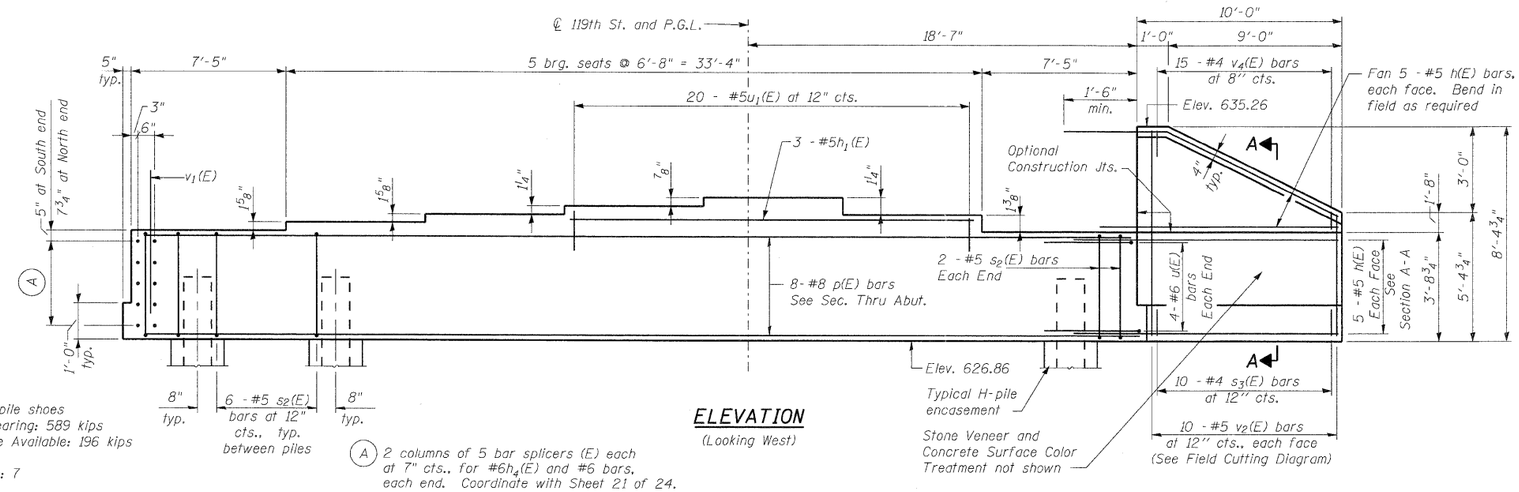


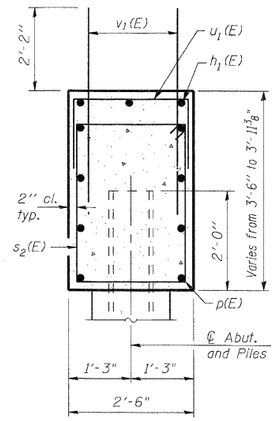
PILE DATA

Type: HP12x74 w/ pile shoes
Nominal Required Bearing: 589 kips
Allowable Resistance Available: 196 kips
Est. Length: 44 ft.
No. Production Piles: 7
No. Test Piles: 1

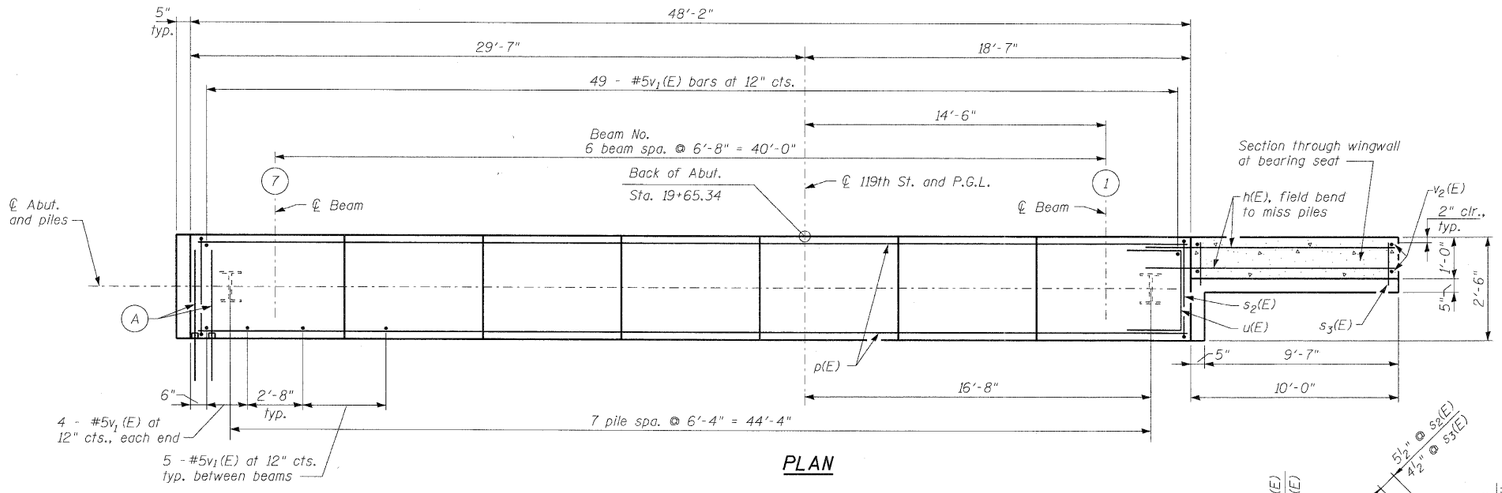
ELEVATION

(Looking West)

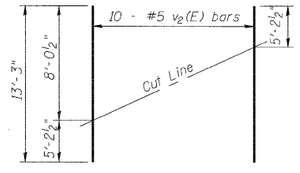
(A) 2 columns of 5 bar splicers (E) each at 7" cts., for #6h_4(E) and #6 bars, each end. Coordinate with Sheet 21 of 24.



SECTION THROUGH ABUTMENT



PLAN

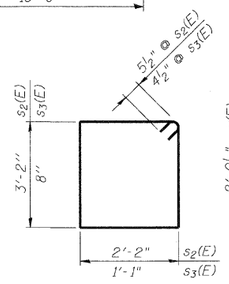


FIELD CUTTING DIAGRAM

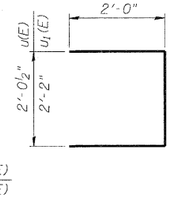
Order v_2(E) full length. Cut as shown and use remainder of bars in opposite face.

NOTES:

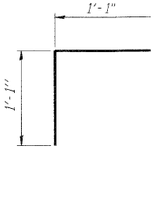
See sheet 19 of 24 for Section A-A.
Pour steps monolithically with cap.
See Sheet 21 of 24 for details of the Stone Veneer, Formliner Textured Surface, and Concrete Surface Color Treatment to be applied to the wingwalls.
Provide stainless steel masonry ties and dovetail anchor channel slots at 12" maximum centers horizontally on all surfaces that have stone veneer. (Cost included in Stone Veneer, typ.)
See sheet 23 of 24 for pile encasement details.
The Steel H-Piles shall be according to AASHTO M270 Grade 50.
The test pile shall be driven to 110 percent of the Nominal Required bearing indicated in the pile data information.



BAR s_2(E) & s_3(E)



BAR u(E) & u_1(E)



BAR v_4(E)

BEARING SEAT ELEVATIONS

Beam No.	West Abut.
1	630.59
2	630.71
3	630.81
4	630.74
5	630.64
6	630.50
7	630.36

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	20	#5	11'-10"	
h_1(E)	3	#5	19'-8"	
p(E)	8	#8	47'-10"	
s_2(E)	46	#5	11'-7"	
s_3(E)	10	#4	4'-3"	
u(E)	8	#6	6'-1"	
u_1(E)	20	#5	6'-2"	
v_1(E)	87	#5	4'-4"	
v_2(E)	10	#5	13'-3"	
v_4(E)	15	#4	2'-2"	

Item	Unit	Quantity
Concrete Structures	Cu. Yd.	19.7
Concrete Encasement	Cu. Yd.	2.8
Reinforcement Bars, Epoxy Coated	Pound	2670
Structure Excavation	Cu. Yd.	132
Bar Splicers	Each	20
Furnishing Steel Piles HP12x74	Foot	308
Driving Piles	Foot	308
Pile Shoes	Each	8
Test Pile Steel HP12x74	Each	1
Geocomposite Wall Drain	Sq. Yd	25
Porous Granular Embankment, Special	Cu. Yd.	92
Pipe Underdrains for Structures, 4"	Foot	84

LOMCO, INC.
CONSULTING ENGINEERS
1560 WALL ST, SUITE 222
NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100

DESIGNED - MJM	REVISED -	
CHECKED - WHE	REVISED -	
DRAWN - SLV	REVISED -	
CHECKED - MJM	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT
STRUCTURE NO. 016-2831
SHEET NO. 18 OF 24 SHEETS

OR RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
213	0102B-1	COOK	54	32
	D-91-052-02	CONTRACT NO. 62390		
	ILLINOIS FED. AID PROJECT			