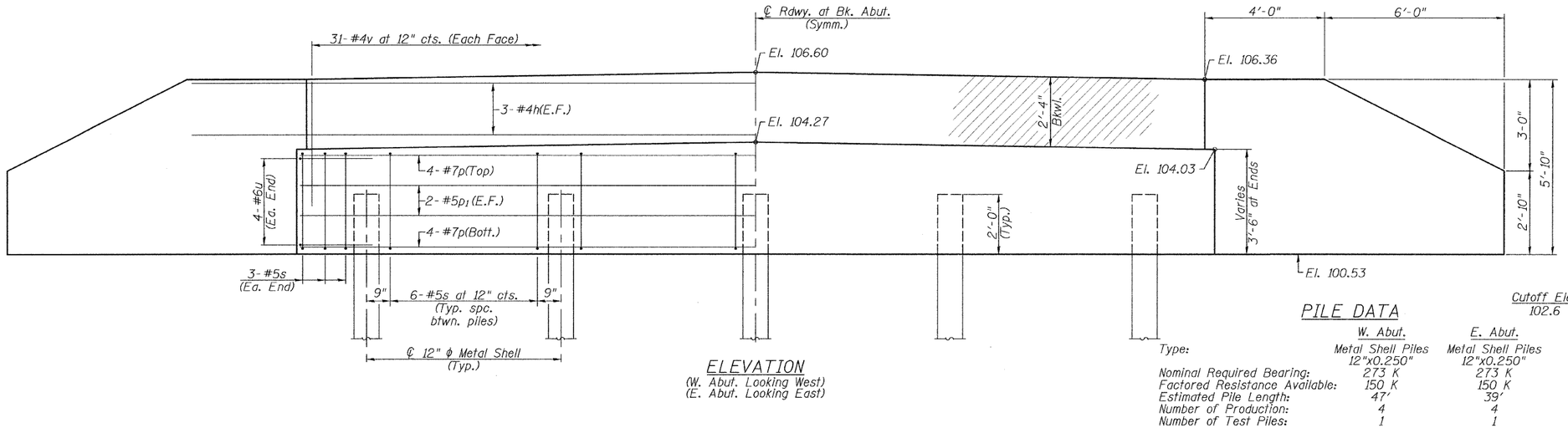


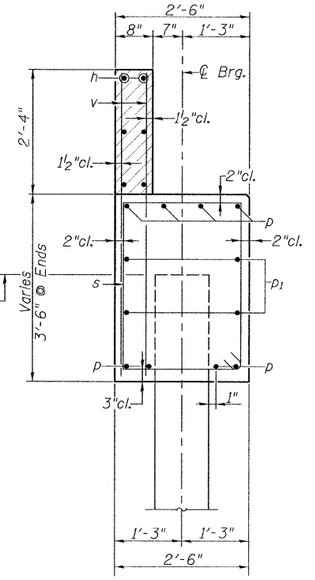
ELEVATION

(W. Abut. Looking West)
(E. Abut. Looking East)

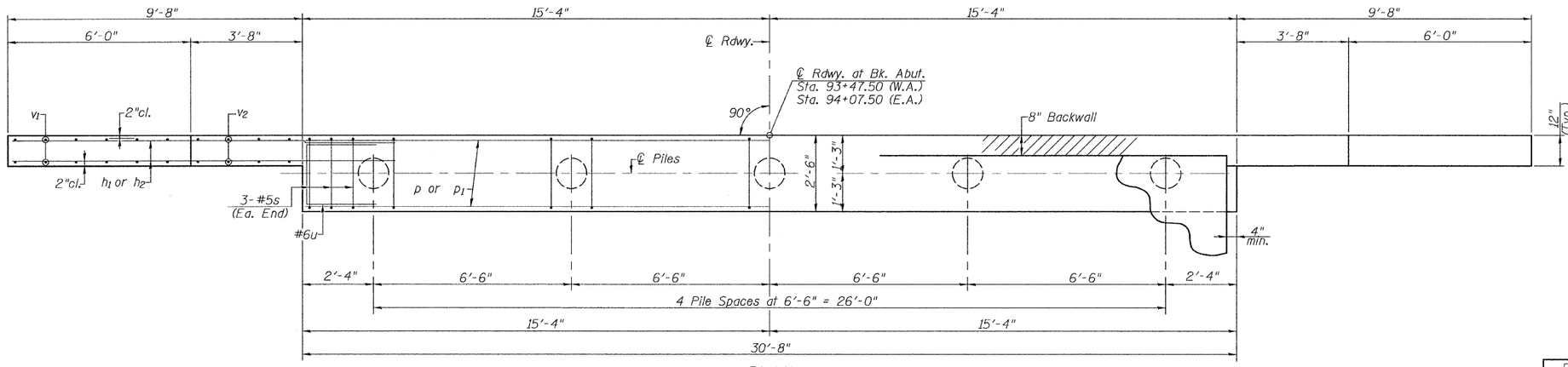
PILE DATA

Type:	W. Abut. Metal Shell Piles 12"x0.250"	E. Abut. Metal Shell Piles 12"x0.250"
Nominal Required Bearing:	273 K	273 K
Factored Resistance Available:	150 K	150 K
Estimated Pile Length:	47'	39'
Number of Production:	4	4
Number of Test Piles:	1	1

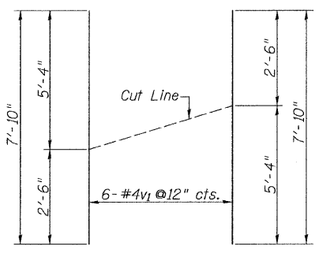
Cutoff Elev. 102.6



SECTION THRU ABUTMENT

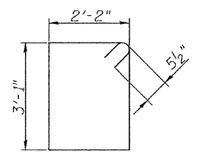


PLAN

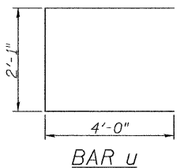


v1 - BAR CUT DIAGRAM

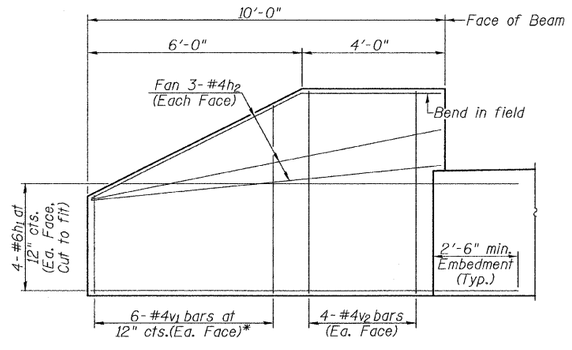
Order v_1 bars full length: Layout in field according to diagram. Cut v_1 bars along cut line. Use remainder of each bar in opposite face.



BAR s



BAR u



WINGWALL ELEVATION

(Showing Reinforcement)
* See v_1 - bar cut diagram

NOTES

All exposed edges shall have standard ¾" chamfer.

Space reinforcement in cap to miss beam anchor dowels. Wingwalls and Backwalls may, at the contractor's option, be cast monolithically.

Hatched area and wingwalls shall be poured after deck beams are anchored in place.

The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.

See Sheet 10 of 15 for pile details.

BILL OF MATERIAL
TWO ABUTMENTS

BAR	NO.	SIZE	LENGTH	SHAPE
h	12	#4	34'-0"	——
h_1	32	#6	12'-0"	——
h_2	24	#4	9'-8"	——
p	16	#7	30'-4"	——
p_1	8	#5	30'-4"	——
s	60	#5	11'-5"	⊡
u	16	#6	10'-1"	⊏⊐
v	124	#4	3'-6"	——
v_1	24	#4	7'-10"	——
v_2	32	#4	5'-5"	——
Concrete Structures			Cu. Yd.	30.6
Reinforcement Bars			Pound	3740
Structure Excavation			Cu. Yd.	156
Furnishing Metal Shell Piles 12"x0.250"			Foot	344
Driving Piles			Foot	344
Test Pile Metal Shells			Each	2

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

Allen Henderson & Associates, Inc.
Civil and Structural Engineers Springfield, IL.
62703 Phone: (217)544-8033 IL. Design Firm
No. 184-001907

ABUTMENTS
STRUCTURE NO. 065-3125
SHEET NO. 5 OF 6 SHEETS

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1	10-00060-00-BR	MENARD	15	9
		CONTRACT NO. 93561		
		ILLINOIS FED. AID PROJECT		