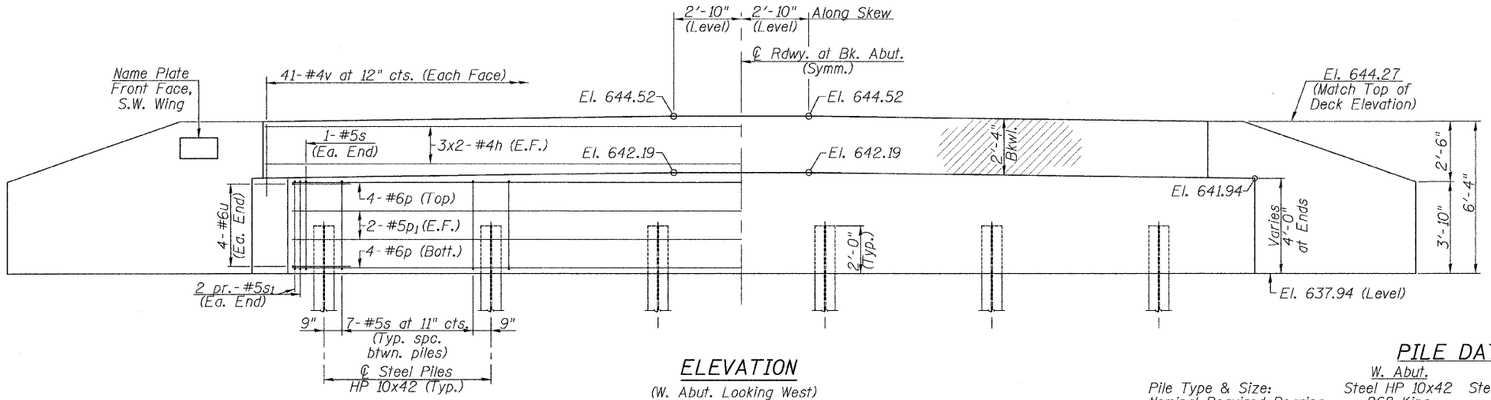
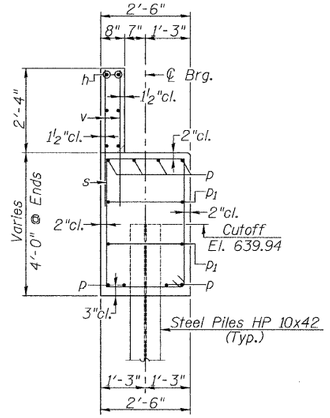


ELEVATION

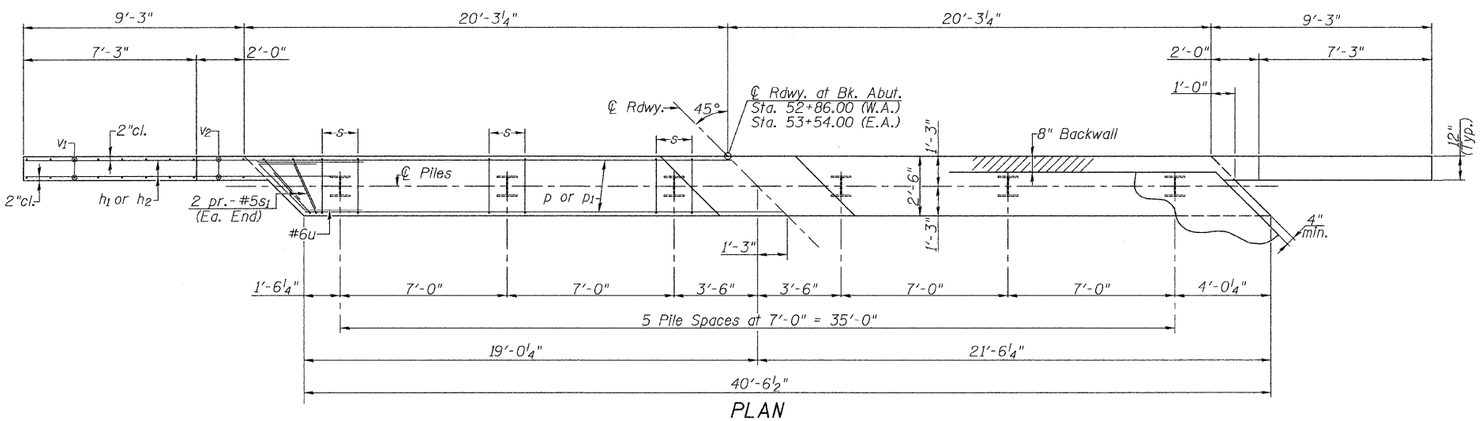
(W. Abut. Looking West)
(E. Abut. Looking East)

PILE DATA

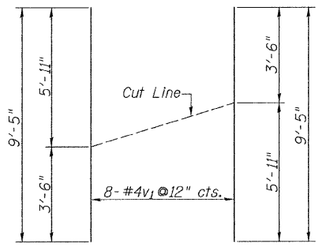
	W. Abut.	E. Abut.
Pile Type & Size:	Steel HP 10x42	Steel HP 10x42
Nominal Required Bearing:	268 Kips	268 Kips
Factored Resistance Available:	147 Kips	147 Kips
Estimated Pile Length:	35'	35'
Number of Production:	5	5
Number of Test Piles:	1	1
Pile Shoes:	6	6



SECTION THRU ABUTMENT

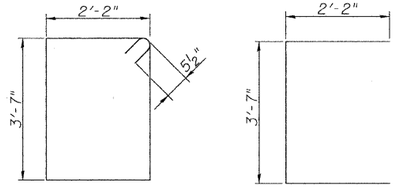


PLAN



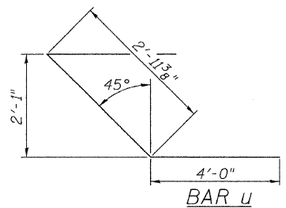
v1 - BAR CUT DIAGRAM

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

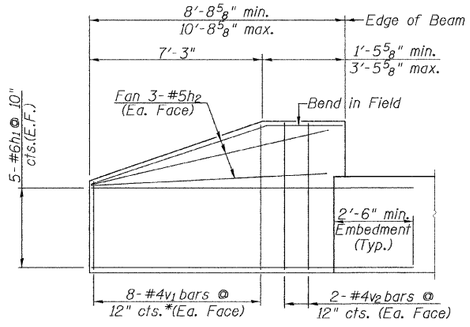
BAR s1



BAR u

MIN. BAR LAP

#4 bar = 1'-8"



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 Test Pile shall be driven to 110 percent of the Nominal Required Bearing indicated in the pile data information.
The Steel H Piles shall be according to AASHTO M270, Grade 50.

BILL OF MATERIAL TWO ABUTMENTS

BAR	NO.	SIZE	LENGTH	SHAPE
h	24	#4	23'-2"	——
h_1	40	#6	12'-9"	——
h_2	24	#5	8'-3"	——
p	16	#6	40'-0"	——
p_1	8	#5	40'-0"	——
s	74	#5	12'-5"	⊐
s_1	16	#5	7'-11"	⊏
u	16	#6	11'-0"	⊏—⊐
v	164	#4	4'-2"	——
v_1	32	#4	9'-5"	——
v_2	16	#4	5'-11"	——
Concrete Structures			Cu. Yd.	43.2
Reinforcement Bars			Pound	4720
Structure Excavation			Cu. Yd.	153
Furnishing Steel Piles HP 10x42			Foot	350
Driving Piles			Foot	350
Test Pile Steel HP 10x42			Each	2
Pile Shoes			Each	12

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. 084-3645
SHEET NO. 5 OF 6 SHEETS

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
40	08-00054-01-BR	SANGAMON	18	12
		CONTRACT NO. 93572		
		ILLINOIS FED. AID PROJECT		