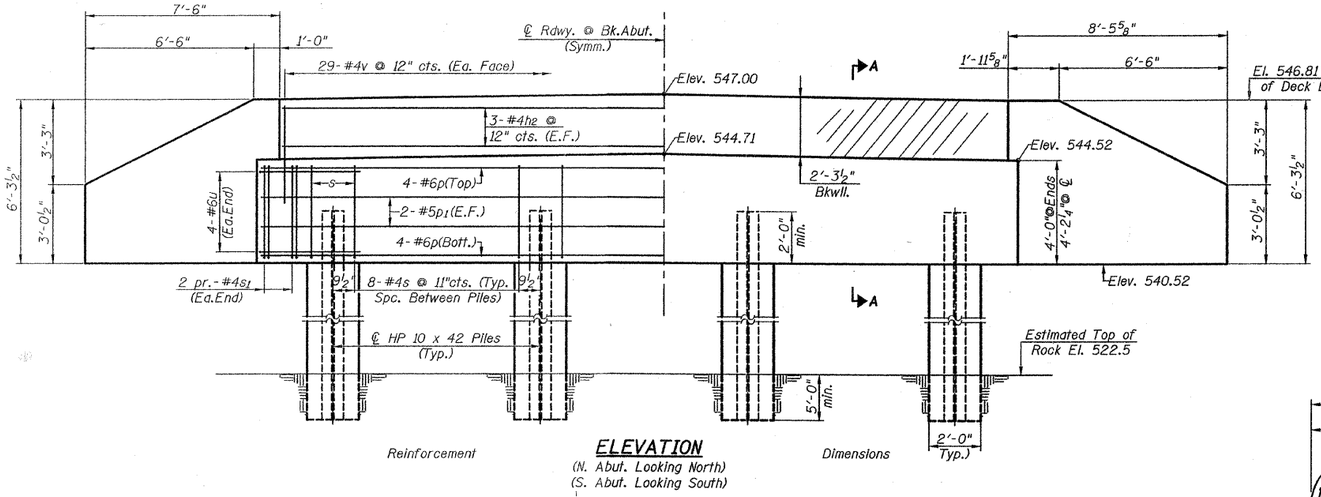
CONTRACT NO. 95528

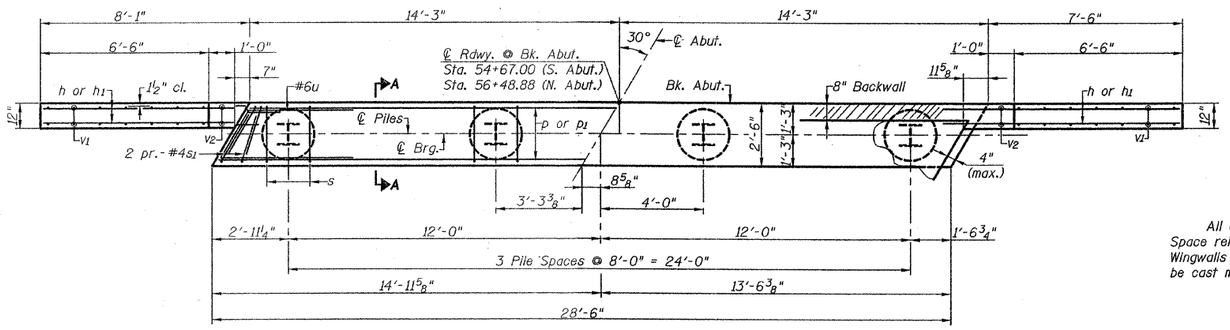
T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
437	04-07120-00BR	SHELBY	17	15
STA. 51+10	TO STA. 63+50			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



Reinforcement — Dimensions

ELEVATION

(N. Abut. Looking North)
(S. Abut. Looking South)



Reinforcement — Dimensions

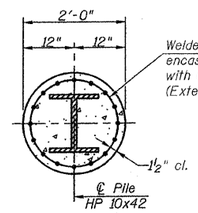
PLAN

PILE DATA

	S. Abut.	N. Abut.
Pile Type & Size:	Steel HP 10x42	Steel HP 10x42
Nominal Required Bearings:	335 Kips	335 Kips
Allowable Resistance Available:	111 Kips	111 Kips
Estimated Pile Length:	26'	26'
Number of Production:	4	4

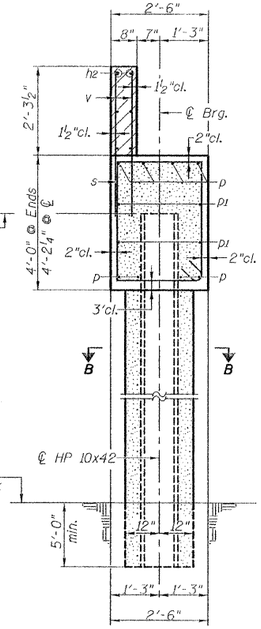
The Steel H-Piles shall be according to AASHTO M270 Grade 50.

Note: Hatched area and wingwalls shall be poured after deck beams are anchored in place. Quanity for Concrete Structures is included in Bill of Material, this sheet.



Welded Wire Fabric 6x6-W4.0-W4.0 top 3'-0" of encasement weighing 58#/100 sq.ft. Cost included with Concrete Encasement. (Extend W.W.F. 9" min. into cap.)

SECTION B-B



SECTION A-A

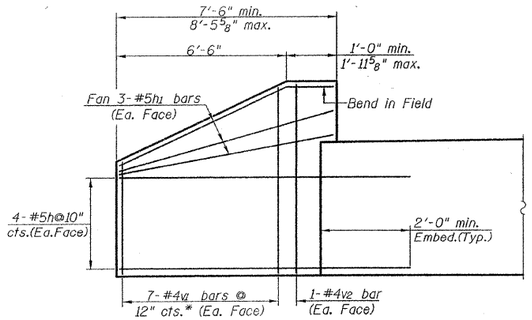
NOTES

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.

BILL OF MATERIAL - TWO ABUTMENTS

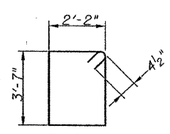
BAR	NO.	SIZE	LENGTH	SHAPE
h	32	#5	10'-1"	———
h1	24	#5	7'-9"	———
h2	12	#4	30'-6"	———
p	16	#6	28'-2"	———
p1	8	#5	28'-2"	———
s	52	#4	12'-3"	⌝
s1	16	#4	7'-11"	⌐
u	16	#6	10'-5"	⌐
v	116	#4	3'-9"	———
v1	28	#4	8'-7"	———
v2	8	#4	5'-11"	———

Concrete Structures	Cu. Yd.	30.6
Reinforcement Bars	Pound	2930
Furnishing Steel Piles HP 10x42	Foot	208
Setting Piles in Rock	Each	8
Structure Excavation	Cu. Yd.	71
Concrete Encasement	Cu. Yd.	16.8

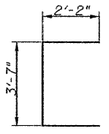


WINGWALL ELEVATION

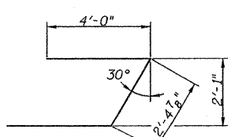
(Showing Reinforcement)
* See v1 - bar cut diagram



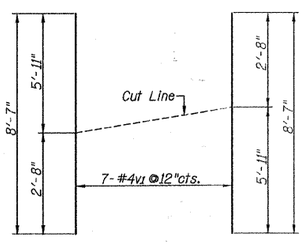
BAR s



BAR s1



BAR u



v1 - BAR CUT DIAGRAM

Order v1 bars full length: Layout in field according to diagram. Cut v1 bars along cut line. Use remainder of each bar in opposite face.

ABUTMENTS
T.R. 437 OVER BECKS CREEK
SECTION 04-07120-00-BR
SHELBY COUNTY

PLOT DATE = &DATE&
FILE NAME = &FILEL&

ALLEN HENDERSON & ASSOCIATES, INC. CONSULTING CIVIL AND STRUCTURAL ENGINEERS SPRINGFIELD, IL. PHONE: (217) 544-8033

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