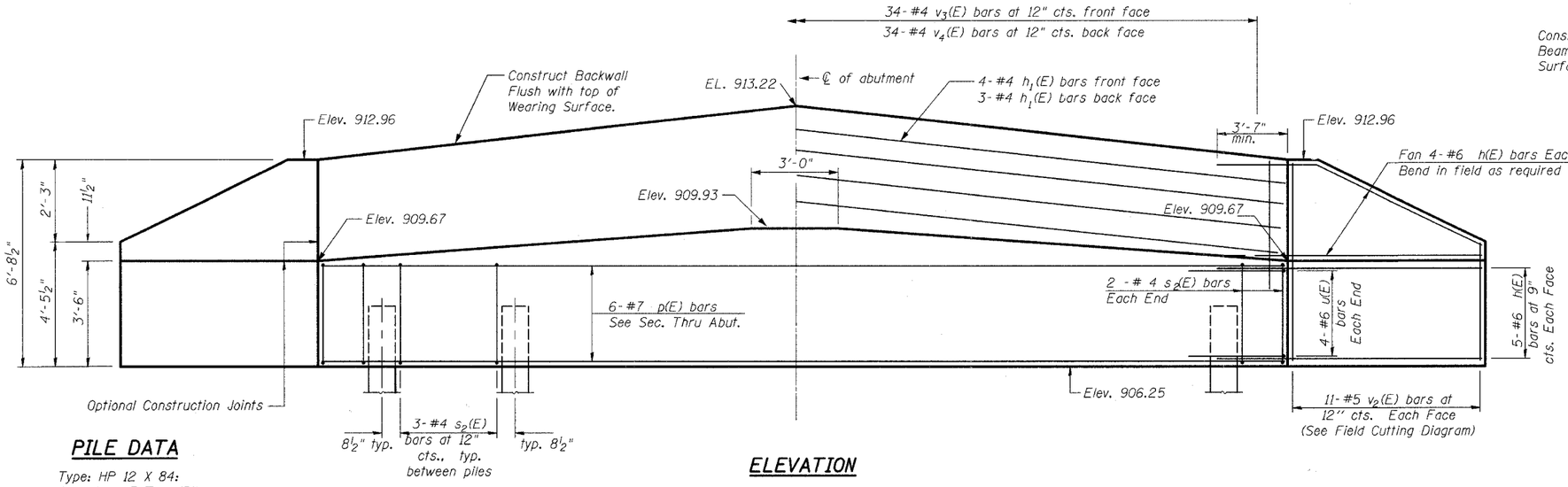
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

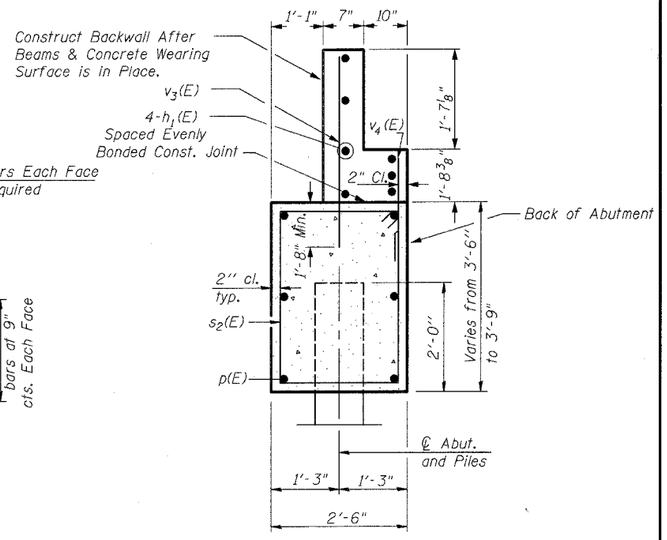
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0083	02-00270-00-BR	McHENRY	37	26
FEDERAL ROAD DISTRICT NUMBER 7		ILLINOIS	FEDERAL AID PROJECT -	

SHEET NO. 4
6 SHEETS

CONTRACT NO.: 83872



ELEVATION

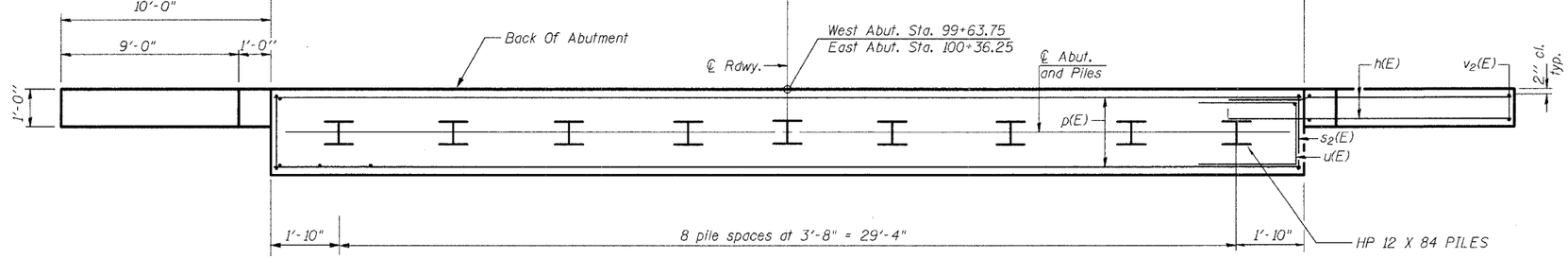


SEC. THRU ABUT.

PILE DATA

Type: HP 12 X 84:
Capacity: 45 Tons/Pile
Est. Length: 70 Feet/Pile
No. Required: (2 Abuts.) 18**

**Includes 1 test pile to be driven in a permanent location at each abutment.



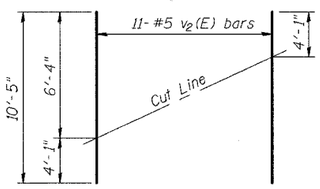
PLAN

BILL OF MATERIAL - 2 ABUTMENTS

Bar	No.	Size	Length	Shape
h(E)	72	#6	13'-5"	
$h_1(E)$	14	#4	32'-8"	
p(E)	12	#7	32'-8"	
$s_2(E)$	56	#4	11'-5"	
u(E)	16	#6	9'-4"	
$v_2(E)$	44	#5	10'-5"	
$v_3(E)$	68	#4	4'-10"	
$v_4(E)$	68	#4	3'-3"	
Concrete Structures		Cu. Yd.	39	
Reinforcement Bars, Epoxy Coated		Pound	4060	
Structure Excavation		Cu. Yd.	272	
Furnished Steel Piles HP 12 X 48		Foot	1120	
Driving Steel Piles		Foot	1120	
Test Piles		Each	2	

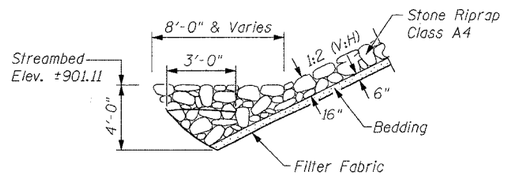
See Next Sheet for pile details

Bars Indicated (E) Shall Be Epoxy Coated

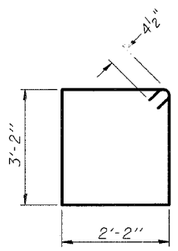


FIELD CUTTING DIAGRAM

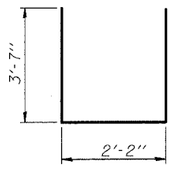
Order $v_2(E)$ full length. Cut as shown and use remainder of bars in opposite face. Cost of field cutting rebars shall be incidental to REINFORCEMENT BARS, EPOXY COATED.



STONE RIPRAP ANCHOR DETAIL



BAR $s_2(E)$



BAR u(E)

DESIGNED	EAK
CHECKED	AJS
DRAWN	RAP
CHECKED	JAR

STRAND ASSOCIATES, INC.® ENGINEERS

ILLINOIS DEPARTMENT OF TRANSPORTATION
ABUTMENT AND WINGWALL DETAILS
T.R. 0083 (STREIT ROAD) OVER
NORTH BRANCH OF THE KISHWAUKEE RIVER
T.R. 0083 SECTION 02-00270-00-BR
McHENRY COUNTY
S.N. 056-3171

SCALE:
DATE: 8/8/2006