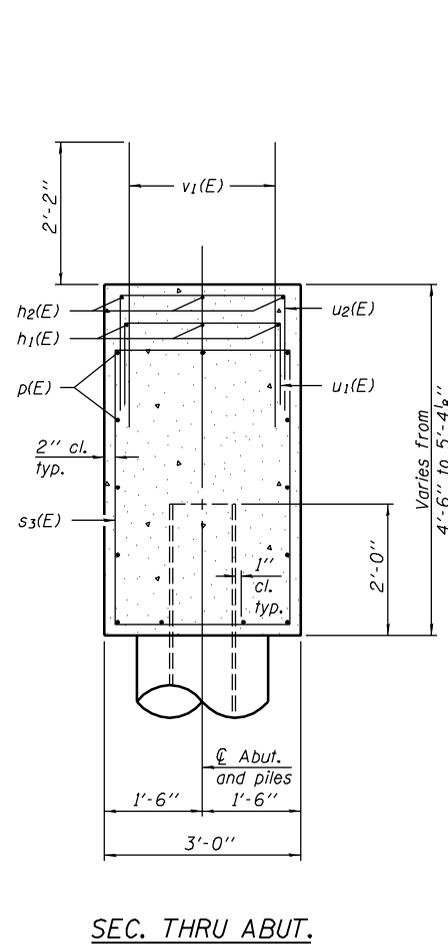


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

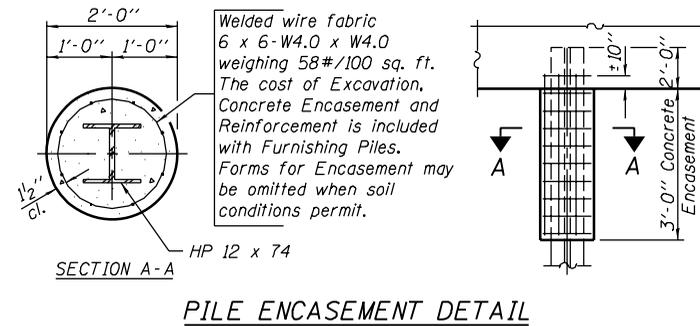
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 57	10-32HB-3,K	CHAMPAIGN	352	129
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 20
27 SHEETS

Contract #90758



SEC. THRU ABUT.



PILE ENCASEMENT DETAIL

WEST ABUTMENT
PILE DATA

Type: HP 12 x 74
Design Capacity: 95 Tons driven to 143 Tons Brg.
Est. Length: 98 ft.
No. Required: 13 + 1 Test pile

EAST ABUTMENT
PILE DATA

Type: HP 12 x 74
Design Capacity: 95 Tons driven to 143 Tons Brg.
Est. Length: 102 ft.
No. Required: 14

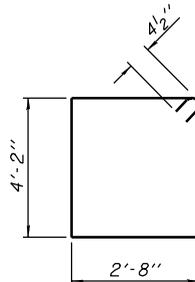
Note:
Piles shall be driven through 18 inch diameter pre-cored holes extending to Elev. 696.5 at the West Abutment and to Elev. 698.0 at the East Abutment. After piles are driven, the void space outside of the pile shall be filled with dry loose sand. Cost of pre-coring and sand backfill is included in the cost of Furnishing Steel Piles HP 12x74.

WEST ABUTMENT
BILL OF MATERIAL

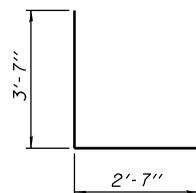
Bar	No.	Size	Length	Shape
h(E)	84	#6	13'-2"	—
h1(E)	6	#4	27'-5"	—
h2(E)	3	#4	13'-0"	—
h6(E)	4	#5	13'-5"	—
p(E)	39	#7	33'-3"	—
s3(E)	84	#4	14'-5"	□
u(E)	10	#6	9'-9"	—
u1(E)	54	#4	5'-2"	□
u2(E)	14	#4	6'-0"	□
v1(E)	165	#5	4'-4"	—
v2(E)	22	#5	16'-1"	—
Concrete Structures		Cu. Yd.	58.6	
Reinforcement Bars, Epoxy Coated		Pound	6820	
Structure Excavation		Cu. Yd.	233	
Furnishing Steel Piles HP 12x74		Foot	1274	
Driving Steel Piles HP 12x74		Foot	1274	
Test Pile Steel HP 12x74		Each	1	

EAST ABUTMENT
BILL OF MATERIAL

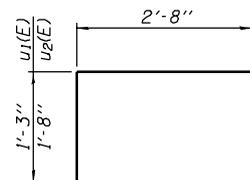
Bar	No.	Size	Length	Shape
h(E)	84	#6	13'-2"	—
h1(E)	6	#4	27'-5"	—
h2(E)	3	#4	13'-0"	—
h6(E)	4	#5	13'-5"	—
p(E)	39	#7	33'-3"	—
s3(E)	84	#4	14'-5"	□
u(E)	10	#6	9'-9"	—
u1(E)	54	#4	5'-2"	□
u2(E)	14	#4	6'-0"	□
v1(E)	165	#5	4'-4"	—
v2(E)	22	#5	16'-1"	—
Concrete Structures		Cu. Yd.	58.6	
Reinforcement Bars, Epoxy Coated		Pound	6820	
Structure Excavation		Cu. Yd.	233	
Furnishing Steel Piles HP 12x74		Foot	1428	
Driving Steel Piles HP 12x74		Foot	1428	



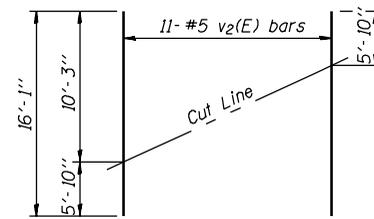
BAR s3(E)



BAR u(E)



BAR u1(E) or u2(E)



FIELD CUTTING DIAGRAM

Order v2(E) full length. Cut as shown and use remainder of bars in opposite face.

ABUTMENT DETAILS

F.A.I. ROUTE 57 SEC. 10-32HB-3,K
CHAMPAIGN COUNTY
STATION 297+20.45
STRUCTURE NO. 010-0272

DESIGNED	Gholam R. Ahanchi
CHECKED	Rebecca L. Tharp
DRAWN	Michael B. Mossman
CHECKED	G.R.A. / R.L.T.

April 28, 2006
EXAMINED *Thomas J. Domagala*
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGE DESIGN
ENGINEER OF BRIDGES AND STRUCTURES