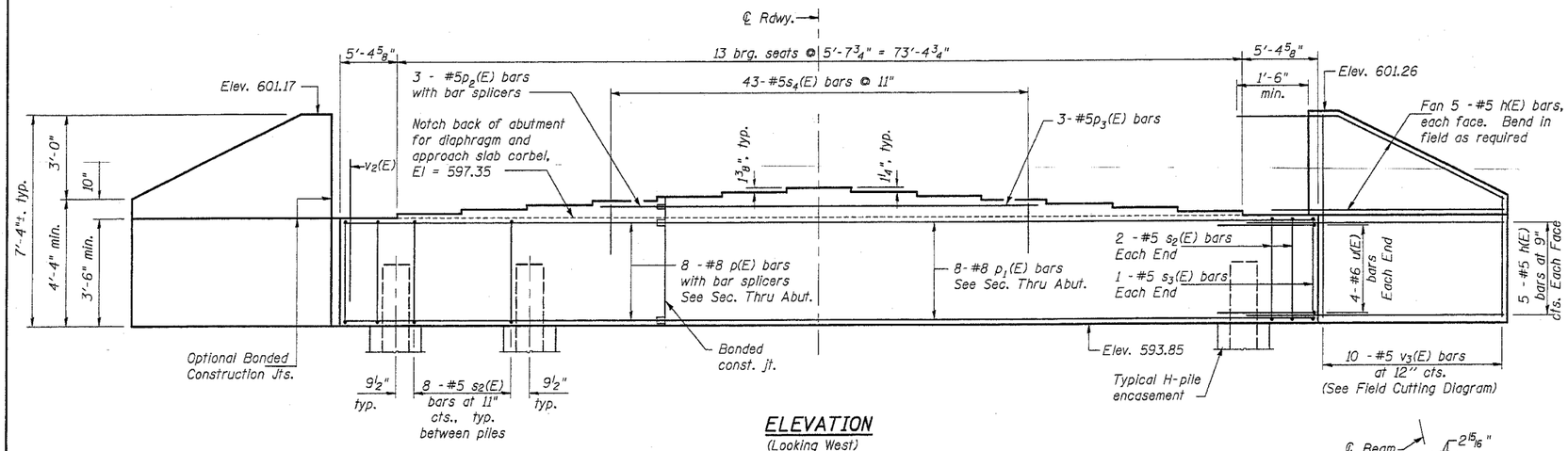
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 0575	14BR	WILL	193	82
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. S-18
S-30 SHEETS

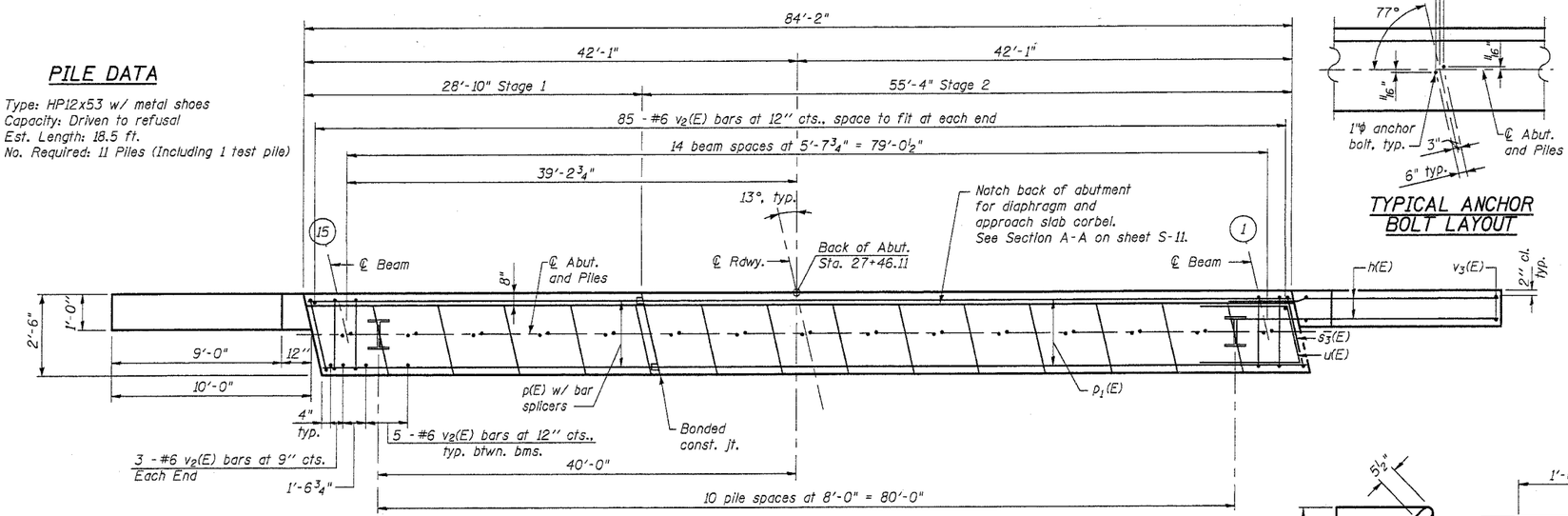
Contract No. 62098



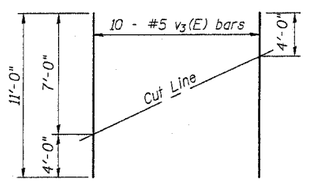
ELEVATION
(Looking West)

PILE DATA

Type: HP12x53 w/ metal shoes
Capacity: Driven to refusal
Est. Length: 18.5 ft.
No. Required: 11 Piles (Including 1 test pile)



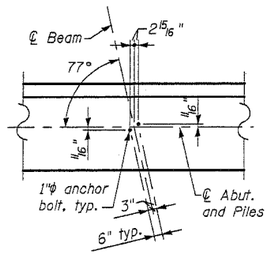
PLAN



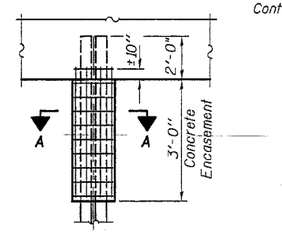
FIELD CUTTING DIAGRAM
Order v3(E) full length. Cut as shown and use remainder of bars in opposite face.

NOTES:

1. All edges shall have standard ¾" chamfers except as noted.
2. Space reinforcement to miss anchor bolts.
3. Pour steps monolithically with cap.
4. Reinforcement bars designated (E) shall be epoxy coated.
5. For anchor bolt details, see sheet S-23.
6. For location of anchor bolts, see sheet S-17.

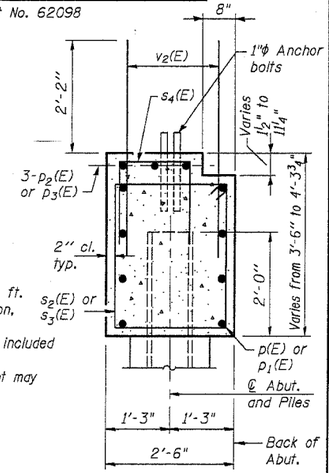


TYPICAL ANCHOR BOLT LAYOUT



SECTION A-A

H-PILE ENCASEMENT



SECTION THROUGH ABUTMENT

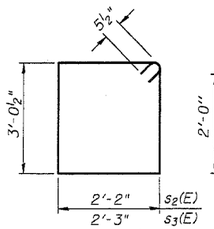
BEARING SEAT ELEVATIONS

Beam No.	West Abut.
1	597.438
2	597.541
3	597.645
4	597.749
5	597.853
6	597.957
7	598.060
8	598.164
9	598.048
10	597.932
11	597.816
12	597.700
13	597.583
14	597.467
15	597.351

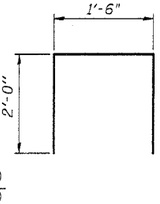
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	40	#5	11'-6"	
p(E)	8	#8	28'-6"	
p1(E)	8	#8	55'-0"	
p2(E)	3	#5	6'-2"	
p3(E)	3	#5	32'-8"	
s2(E)	84	#5	11'-4"	
s3(E)	2	#5	11'-6"	
s4(E)	43	#5	5'-6"	
u(E)	8	#6	6'-1"	
v2(E)	161	#5	5'-4"	
v3(E)	20	#5	11'-0"	

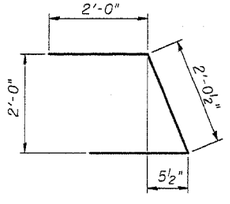
Item	Unit	Quantity
Concrete Structures	Cu. Yd.	33.7
Reinforcement Bars, Epoxy Coated	Pound	4847
Structure Excavation	Cu. Yd.	35
Bar Splicer	Each	11
Furnishing Steel Piles HP12x53	Foot	185
Driving Steel Piles	Foot	185
Test Pile Steel HP12x53	Each	1
Metal Shoes	Each	10
Pourous Granular Embankment	Cu. Yd.	120



BAR s2(E) & s3(E)



BAR s4(E)



BAR u(E)

DESIGNED	MJM
CHECKED	WHE
DRAWN	EAB
CHECKED	WHE

REVISIONS NAME	DATE

LONCO, INC.
CONSULTING ENGINEERS 630 NORTH WASHINGTON ST., SUITE 205
NAPERVILLE, ILLINOIS 60563 (630) 577-9100

ILLINOIS DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT PLAN AND ELEVATION

US ROUTE 30 (LINCOLN HIGHWAY)
OVER LILY CACHE CREEK
WILL COUNTY
F.A.P. ROUTE 0575 SEC. 14BR
STATION 28+22.14 NEW STRUCTURE NO. 099-4648
DATE 03/24/05