

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET	SHEET NO.
FAS 2801 IL 128	(102B) B-1	EFFINGHAM	51	41	23 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract # 74232

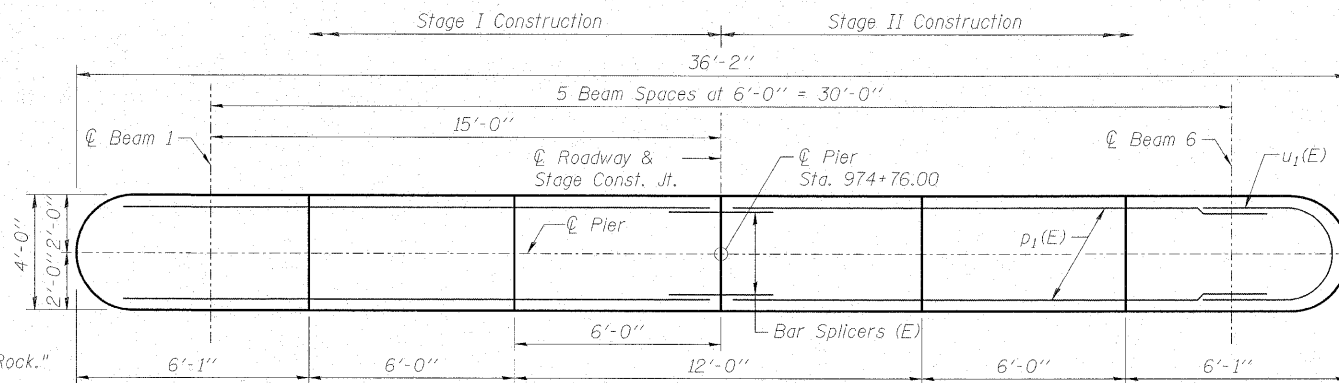
Notes:

Four steps monolithically with cap.  
For details of piles, see sheet 20 of 23.  
For details of Bar Splicers, see sheet 21 of 23.  
Space reinforcement in cap to miss side retainer anchor bolts, see sheet 13 of 23.

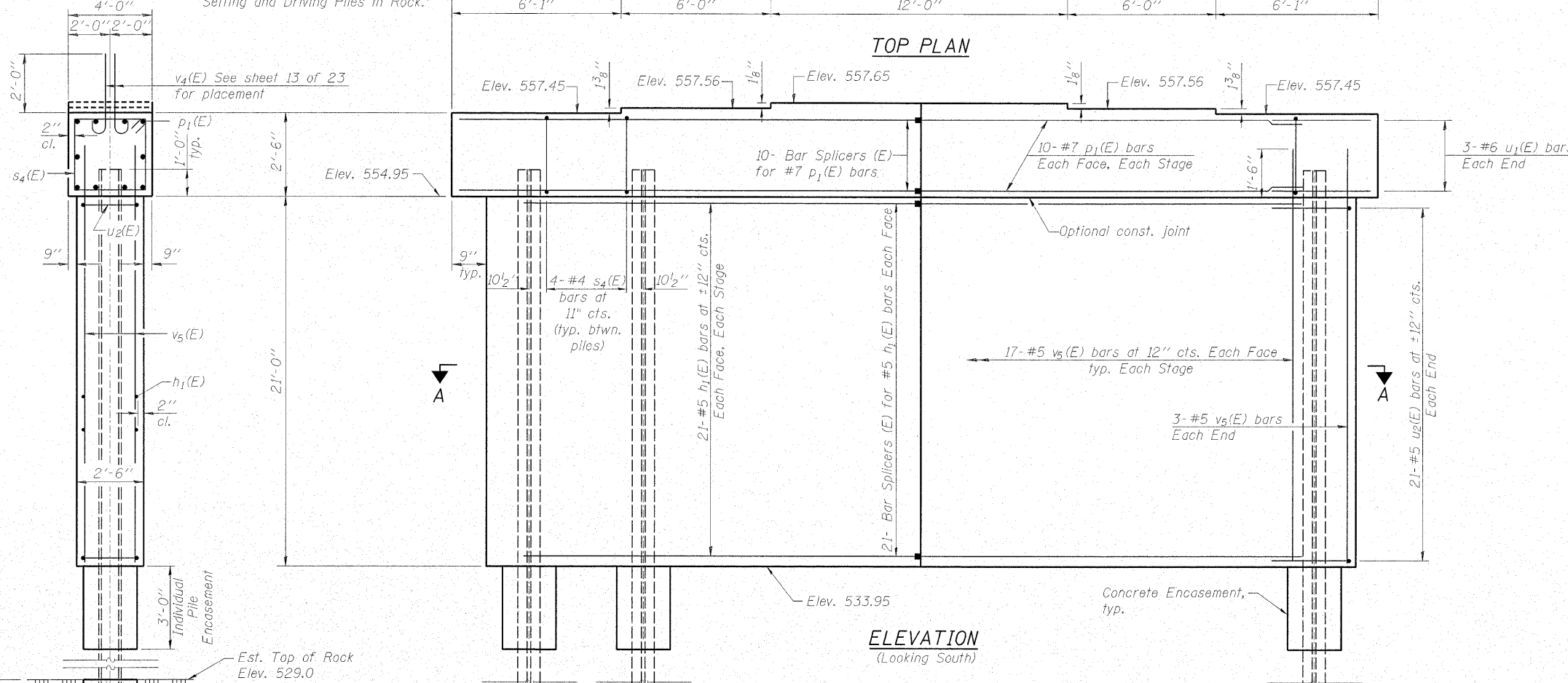
PILE DATA

Type: Steel HP14x89  
Nominal Required Bearing: 705 kips\*  
Factored Resistance Available: 352 kips  
Est. Length: 44 feet  
No. Production Piles: 7  
No. Test Piles: 1\*  
Est. Top of Rock Elev.: 529.0  
Rock Socket Depth: 6.5 feet  
Rock Socket Diameter: 2 feet

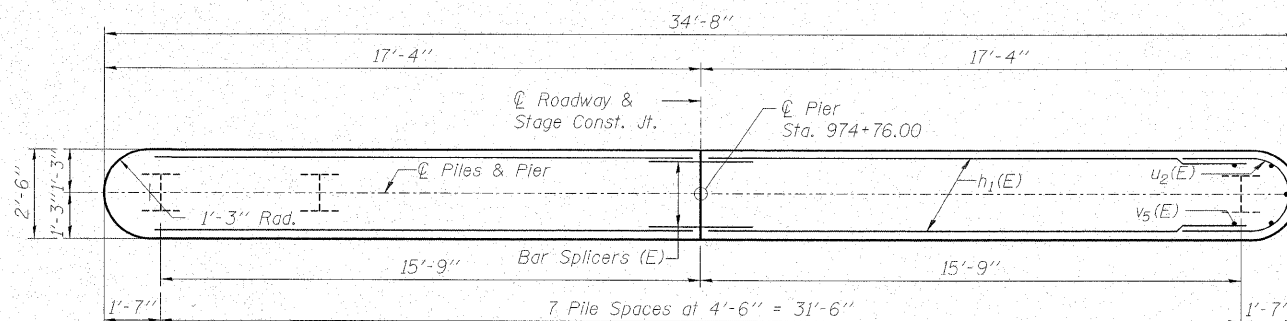
\* See Special Provisions for "Setting and Driving Piles in Rock."



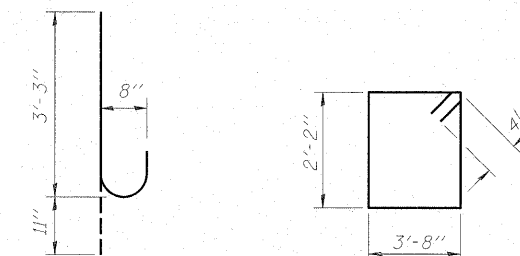
TOP PLAN



ELEVATION  
(Looking South)

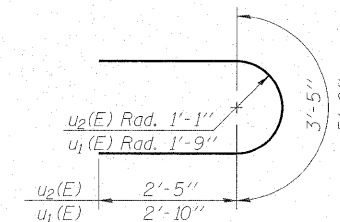


SECTION A-A



BAR v4(E)

BAR s4(E)



BARS u1(E) & u2(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	84	#5	16'-0"	—
p1(E)	20	#7	15'-11"	—
s4(E)	28	#4	12'-5"	□
u1(E)	6	#6	11'-2"	U
u2(E)	42	#5	8'-3"	U
v4(E)	30	#8	4'-2"	U
v5(E)	74	#5	22'-4"	—
Structure Excavation		Cu. Yd.	38	
Concrete Structures		Cu. Yd.	80.0	
Concrete Encasement		Cu. Yd.	4.4	
Reinforcement Bars, Epoxy Coated		Pound	4800	
Furnishing Steel Piles, HP14x89		Foot	308	
Underwater Structure Excavation Protection, Location 1		Each	1	
Setting and Driving Piles in Rock		Each	7	
Setting and Driving Test Piles in Rock		Each	1	

PIER

IL ROUTE 128 OVER WOLF CREEK  
F.A.S. RTE. 2801 - SECTION (102B)B-1  
EFFINGHAM COUNTY  
STATION 974+76.00  
STRUCTURE NO. 025-0105



DESIGNED - BAS
CHECKED - KEF
DRAWN - SGM
CHECKED - RJA

If a portion of the pier wall or concrete encasement is under water, reinforcement may be placed underwater into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.