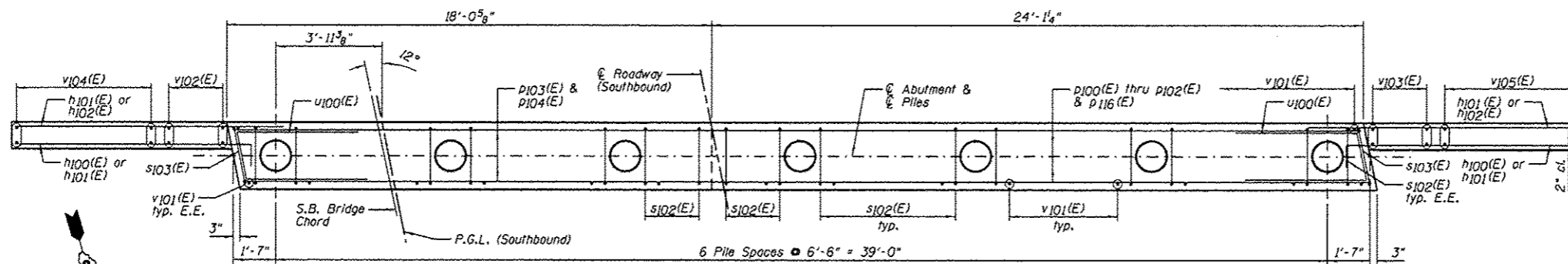
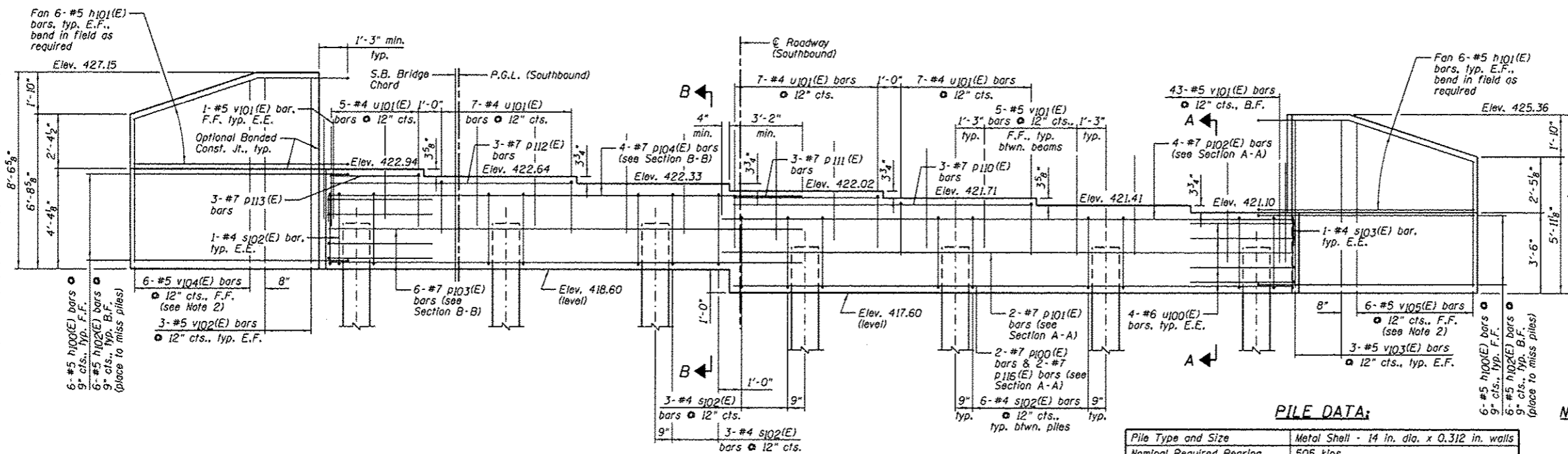


TOP VIEW ABUTMENT (SHOWING BEARING SEAT)



PLAN - PILE CAP



ELEVATION (Looking South)

PILE DATA:

Pile Type and Size	Metal Shell - 14 in. dia. x 0.312 in. walls
Nominal Required Bearing	505 kips
Factored Resistance Available	278 kips
Estimated Pile Length	80 Feet
Number of Production Piles	6
Number of Test Piles	1

NOTES:

- 1.) Pour steps monolithically with cap.
- 2.) Order v104(E) and v105(E) bars full length. Cut according to Bar Cutting Diagram on Sheet A29. Use remainder of bars in opposite face of wingwall.
- 3.) Bend or cut h100(E) bars to miss piles.
- 4.) E.E. denotes Each End, F.F. denotes Front Face, B.F. denotes Back Face and E.F. denotes Each Face.
- 5.) See Sheet A29 for Section A-A, Section B-B and other details.

SOUTH ABUTMENT
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h100(E)	11	#5	9'-8"	
h101(E)	24	#5	10'-6"	
h102(E)	11	#5	10'-4"	
p100(E)	2	#7	23'-9"	
p101(E)	2	#7	25'-3"	
p102(E)	4	#7	26'-5"	
p103(E)	6	#7	21'-1"	
p104(E)	4	#7	22'-3"	
p110(E)	3	#7	12'-8"	
p111(E)	3	#7	6'-2"	
p112(E)	3	#7	10'-7"	
p113(E)	3	#7	4'-2"	
p116(E)	2	#7	24'-0"	
s102(E)	38	#4	11'-5"	
s103(E)	2	#4	11'-7"	
u100(E)	8	#6	11'-2"	
u101(E)	26	#4	6'-8"	
v101(E)	75	#5	4'-4"	
v102(E)	6	#5	8'-1"	
v103(E)	6	#5	7'-4"	
v104(E)	6	#5	14'-2"	
v105(E)	6	#5	12'-8"	
Item Unit Quantity				
Structure Excavation	Cu. Yd.	105		
Concrete Structures	Cu. Yd.	20.1		
Reinforcement Bars, Epoxy Coated	Pound	2,810		
Furnishing Metal Shell Piles 14" x 0.312"	Foot	480		
Driving Piles	Foot	480		
Test Pile Metal Shells	Each	1		
Geocomposite Wall Drain	Sq. Yd.	44		
Pipe Underdrains for Structures 4"	Foot	79		
Porous Granular Embankment, Special	Cu. Yd.	85		



DESIGNED - TCR/JCZ	REVIS
CHECKED - JML	REVIS
DRAWN - DJM/JWK	REVIS
DATE - 06/26/12	REVIS
CHECKED - MSW	REVIS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT, SOUTHBOUND
STRUCTURE NO. 082-0385 NB & 082-0386 SB

SHEET NO. A28 OF 48 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-28	ST. CLAIR	94	59
CONTRACT NO. 76F69				
ILLINOIS FED. AID PROJECT				