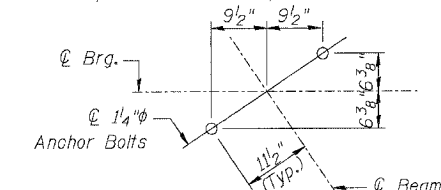


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

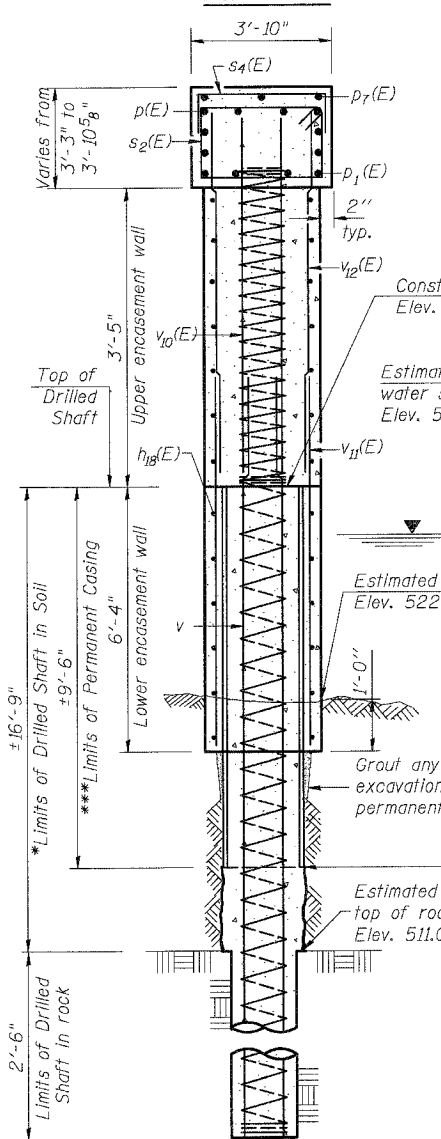
ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET	SHEET NO. S26
F.A.U. 5952	Q	GRUNDY	86	59	OF S26 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

\*\*\* Contractor is responsible for determining the casing thickness and the actual tip elevation to be used (see Special Provisions).  
Pay limits for the Permanent Casing are based on the minimum length shown.

Note A:  
Provide 4-Bar Splicers (E) for #5 p<sub>1</sub>(E) & 8-Bar Splicers (E) for #5 p(E) bars.



DETAIL A

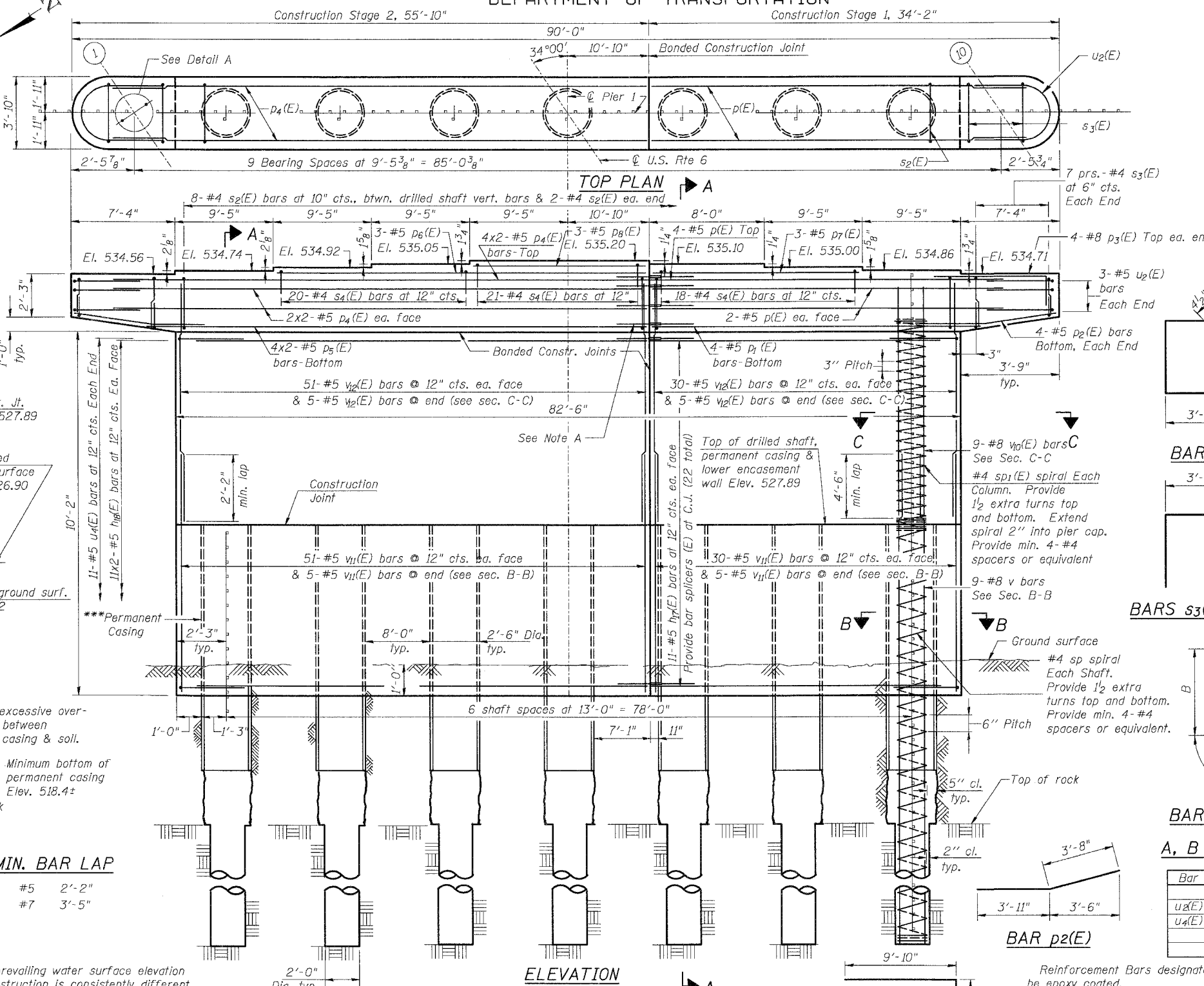


SECTION A-A

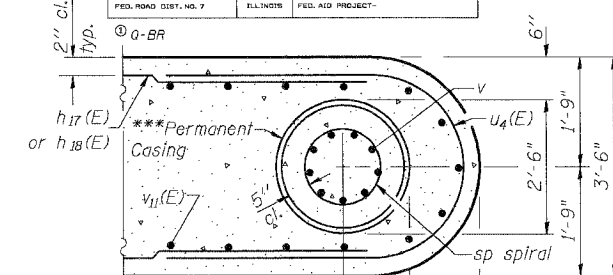
MIN. BAR LAP

#5	2'-2"
#7	3'-5"

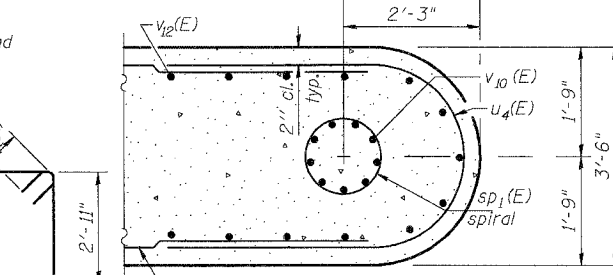
\* If the prevailing water surface elevation during construction is consistently different than estimated on the plans, the contractor may propose an adjustment to the top of the drilled shaft elevation as part of their installation procedure. The top of all drilled shafts within a substructure unit shall be constructed to the same elevation and extend above the prevailing water surface. The quantities and reinforcement detailing are based on the top of shaft and the estimated elevations shown and may change based on the actual elevations encountered at each shaft and the final top of shaft elevation.



ELEVATION (Looking East)



SECTION B-B



SECTION C-C

BILL OF MATERIAL

Bar No.	Size	Length	Shape
h <sub>17</sub> (E)	#5	28'-2"	—
h <sub>18</sub> (E)	#5	26'-1"	—
p(E)	#5	32'-3"	—
p <sub>1</sub> (E)	#5	30'-5"	—
p <sub>2</sub> (E)	#5	7'-7"	—
p <sub>3</sub> (E)	#8	11'-2"	—
p <sub>4</sub> (E)	#5	28'-1"	—
p <sub>5</sub> (E)	#5	27'-2"	—
p <sub>6</sub> (E)	#5	38'-9"	—
p <sub>7</sub> (E)	#5	17'-1"	—
p <sub>8</sub> (E)	#5	19'-11"	—
s <sub>2</sub> (E)	#4	13'-7"	□
s <sub>3</sub> (E)	#4	7'-4"	—
s <sub>4</sub> (E)	#4	5'-6"	—
sp	#4	20'-3"	≡
sp <sub>1</sub> (E)	#4	4'-6"	≡
u <sub>2</sub> (E)	#5	11'-6"	—
u <sub>4</sub> (E)	#5	8'-6"	—
v	#8	23'-9"	—
v <sub>2</sub> (E)	#8	5'-9"	—
v <sub>10</sub> (E)	#5	8'-11"	—
v <sub>11</sub> (E)	#5	5'-3"	—
Under Structure Excavation Protection, Location 1	Each	1	
Drilled Shaft in Soil	Cu. Yd.	21.5	
Drilled Shaft in Rock	Cu. Yd.	2.0	
Concrete Structures	Cu. Yd.	140.7	
Reinforcement Bars, Epoxy Coated	Pound	8510	
Reinforcement Bars	Pound	4970	
Permanent Casing	Foot	66.5	
Bar Splicers	Each	34	

BAR s<sub>2</sub>(E)

BARS s<sub>3</sub>(E) or s<sub>4</sub>(E)

BARS u<sub>2</sub>(E) or u<sub>4</sub>(E)

A, B & C DIMENSIONS

Bar	A	B	C
u <sub>2</sub> (E)	1'-9"	3'-0"	5'-6"
u <sub>4</sub> (E)	1'-7"	1'-9"	5'-0"

BAR p<sub>2</sub>(E)

BAR p<sub>3</sub>(E)

Reinforcement Bars designated (E) shall be epoxy coated.  
Cast steps monolithically with cap.  
Space cap reinforcement to miss anchor bolts. Minimum lap for spirals = 1 1/2 turns.  
\*Length is height of spiral.  
Bars indicated thus 11x2-#5 etc. indicate 11 lines of bars with 2 lengths per line.

BOWMAN, BARRETT & ASSOCIATES INC.  
CONSULTING ENGINEERS  
130 E. RANDOLPH STREET  
CHICAGO, ILLINOIS 60601  
JOB NO. 541



PIER 1  
U.S. ROUTE 6 OVER  
NETTLE CREEK  
FAU 5952-SEC. Q-BR  
GRUNDY COUNTY  
STATION 449+79.12  
S.N. 032-0107