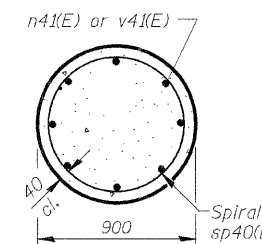
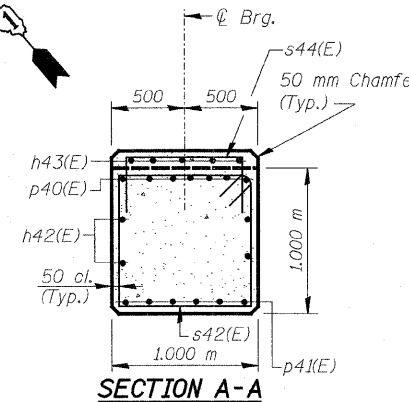
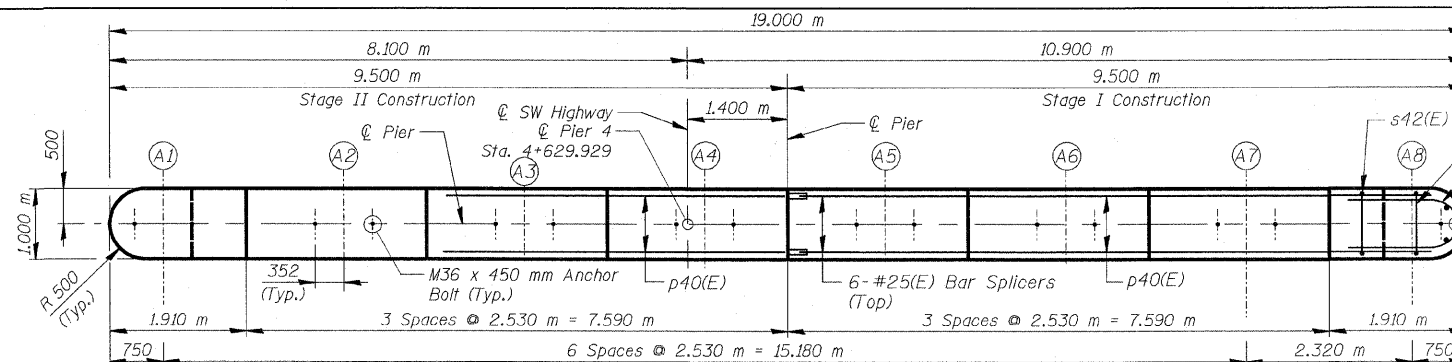


NOTES:
Space Reinforcement in cap to miss anchor bolts.
All edges shall have standard 20 mm chamfer except as noted.
Four steps monolithically with cap.

TYP. LAP SPLICE	
BAR SIZE	MIN. LAP
#15	890 mm
#20	1,110 m
#25	1,850 m

NOTE: Use a min. lap splice of 640 for w40(E) & w41(E) bars

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3578	15 VB-1-F	COOK	62	53
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 60H5				



SECTION B-B

BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
h40(E)	25	#15	8,940	—
h41(E)	25	#15	7,950	—
h42(E)	8	#15	8,950	—
h43(E)	10	#15	2,430	—
n40(E)	6	#15	1,180	—
n41(E)	48	#35	3,050	—
p40(E)	12	#25	8,950	—
p41(E)	12	#25	8,300	—
p42(E)	12	#15	1,830	—
s40(E)	66	#15	3,500	—
s41(E)	66	#15	6,800	—
s42(E)	68	#15	3,880	—
s43(E)	12	#15	2,400	—
s44(E)	18	#15	1,800	—
sp40(E)	6	#15	*4,040	—
t40(E)	68	#25	2,500	—
u40(E)	22	#15	3,150	—
u41(E)	6	#20	3,590	—
v40(E)	6	#15	2,950	—
v41(E)	48	#35	4,790	—
v42(E)	6	#15	0,600	—
w40(E)	10	#15	9,290	—
w41(E)	10	#15	8,550	—
Structure Excavation		m ³	98	
Concrete Structures		m ³	116.0	
Reinforcement Bars, Epoxy Coated		kg	8,850	
Bar Splicers		Each	16	
Furnishing Steel Piles HP310x79		m	292.0	
Driving Piles		m	292.0	
Pile Shoes		Each	20	

* Height of spiral

A & B DIMENSIONS

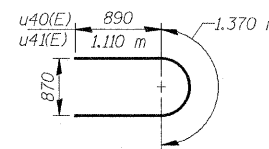
Bar	A	B
s40(E)	900	1,300 m
s41(E)	900	2,950 m
s43(E)	900	750
s44(E)	900	450

BARS n40(E) & n41(E)

BAR p42(E)

BARS s40(E), s41(E), s43(E) & s44(E)

BAR s42(E)

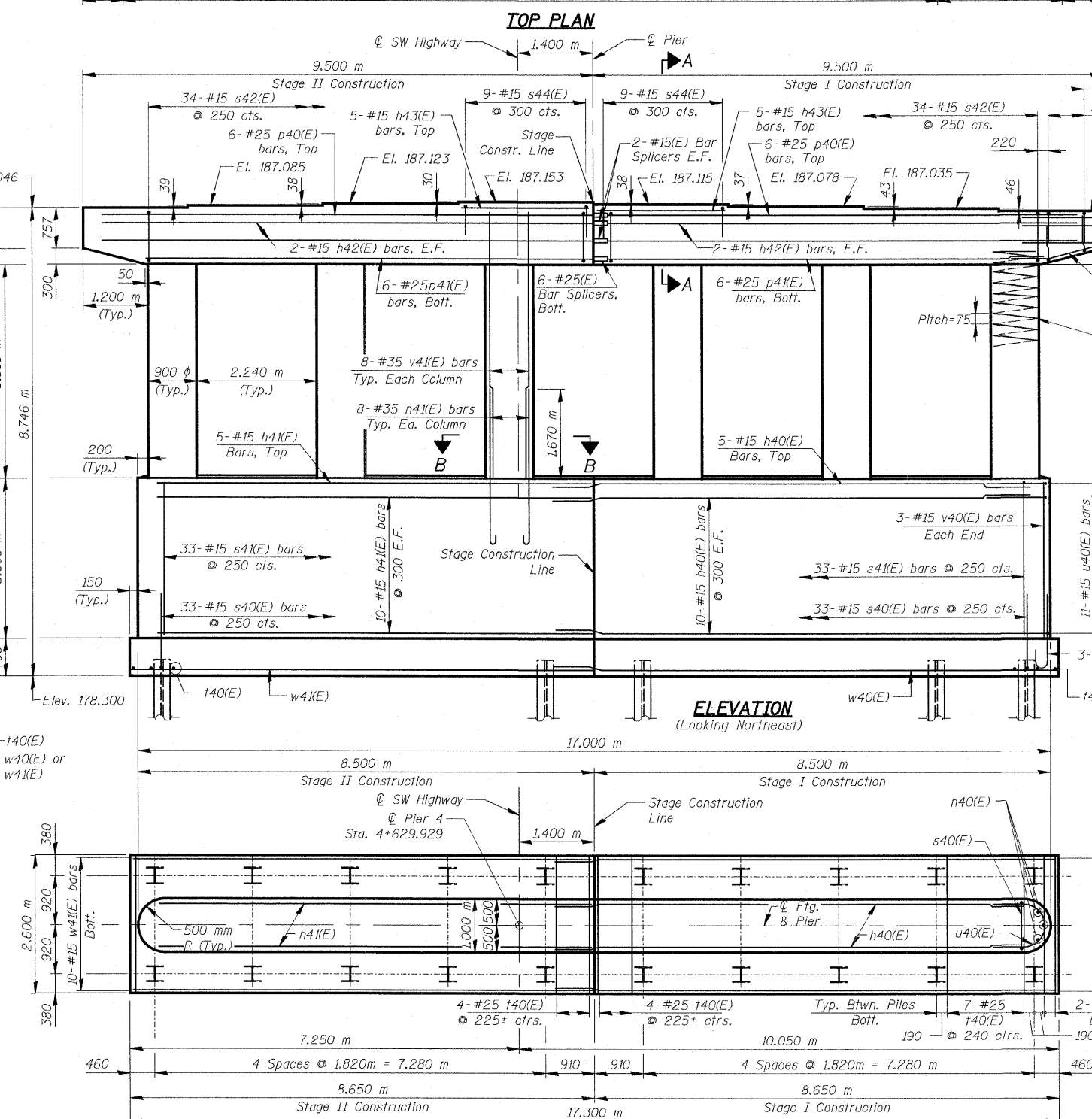


BARS u40(E) & u41(E)

PILE DATA

Type: Steel HP 12x53 with pile shoes
Nominal Required Bearing: 1860 kN
Allowable Resistance Available: 620 kN
Est. Length: 14.6 m
No. Production Piles: 20
No. Test Piles: None

PATRICK
ENGINEERING INC.
LISLE, ILLINOIS



FOOTING PLAN

NOTES:

- Reinforcement bars designated (E) shall be Epoxy Coated.
- Bars indicated thus 20 x 3 - #15 etc. indicates 20 lines of bars with 3 lengths per line.
- All dimensions are in millimeters (mm) except as noted.
- Minimum lap for spirals 770 mm.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PIER 4
SOUTHWEST HIGHWAY OVER
B&O RAILROAD AND STONY CREEK
FAU 3578 SECTION 15 VB-1-F
STRUCTURE NUMBER 016-2771
COOK COUNTY STATION 4+716.497
SCALE: NONE DRAWN BY: E. Mroozek
DATE: MAY 22, 2009 CHECKED BY: G. Hattestad

FOR INFORMATION ONLY