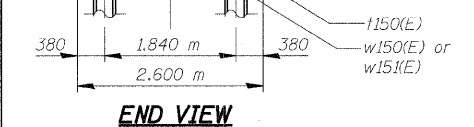
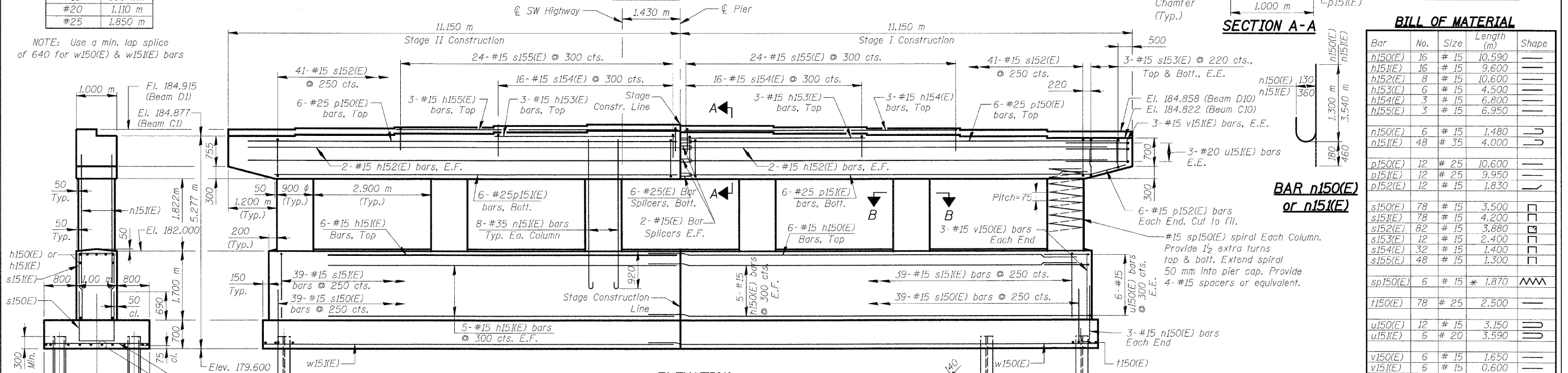
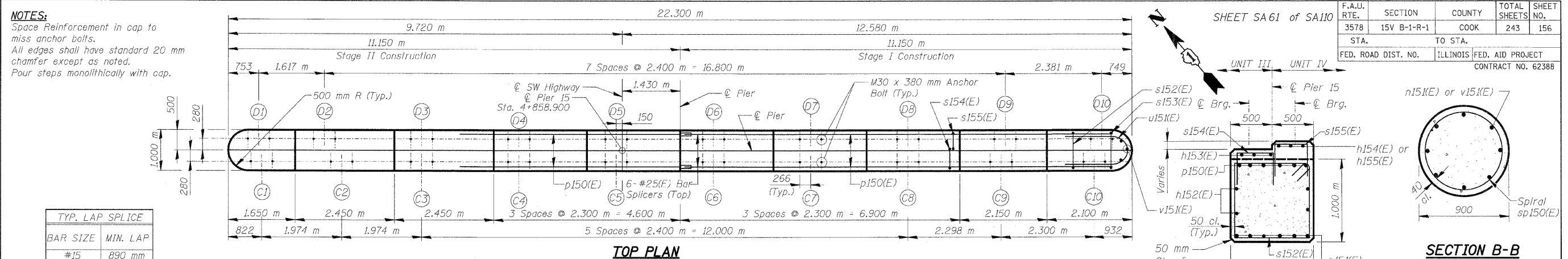


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS NO.	SHEET
3578	15V B-1-R-1	COOK	243	156
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62388				

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

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

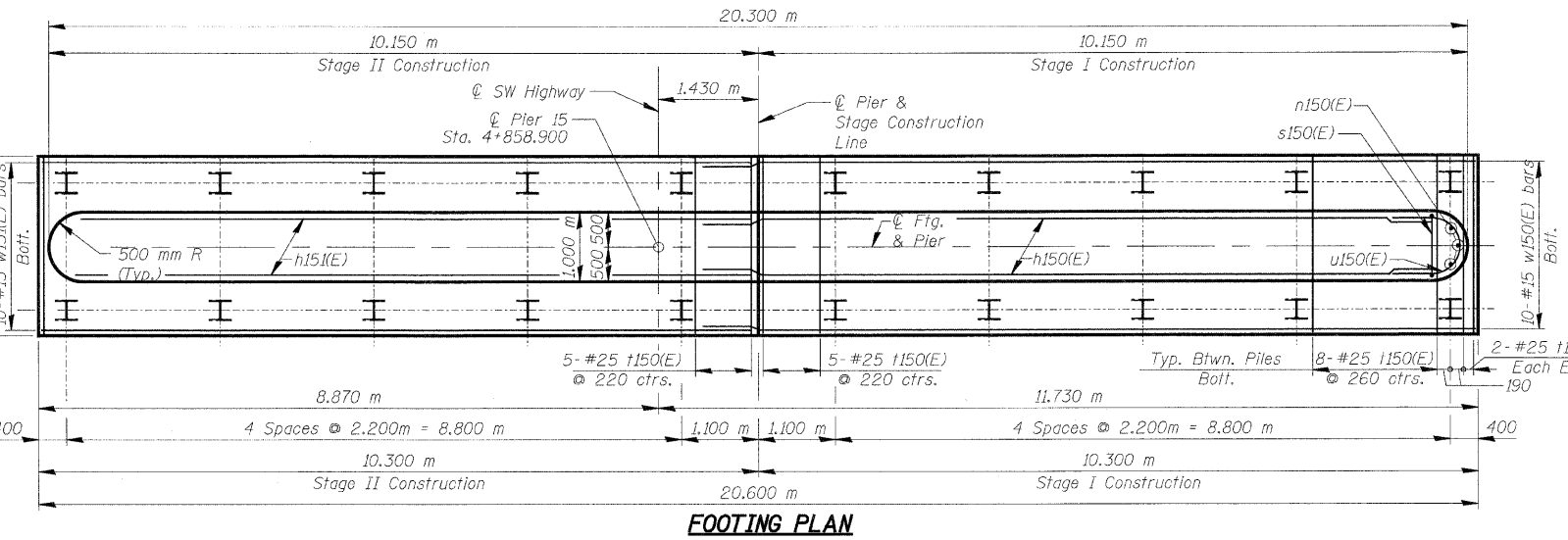
NOTE: Use a min. lap splice of 640 for w150(E) & w151(E) bars



Beam	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
Elevation	184.877	184.908	184.938	184.974	185.010	184.978	184.942	184.906	184.868	184.822
Step	0.031	0.030	0.036	0.036	-0.032	-0.036	-0.036	-0.036	-0.036	-0.046
Beam	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10
Elevation	184.915	184.942	184.978	185.014	185.050	185.018	184.982	184.946	184.907	184.858
Step	0.027	0.036	0.036	0.036	-0.032	-0.036	-0.036	-0.039	-0.049	

Bar	No.	Size	Length (m)	Shape
h150(E)	16	#15	10,590	—
h151(E)	16	#15	9,600	—
h152(E)	8	#15	10,600	—
h153(E)	6	#15	4,500	—
h154(E)	3	#15	6,800	—
h155(E)	3	#15	6,950	—
n150(E)	6	#15	1,480	—
n151(E)	48	#35	4,000	—
p150(E)	12	#25	10,600	—
p151(E)	12	#25	9,950	—
p152(E)	12	#15	1,830	—
s150(E)	78	#15	3,500	—
s151(E)	78	#15	4,200	—
s152(E)	82	#15	3,880	—
s153(E)	12	#15	2,400	—
s154(E)	32	#15	1,400	—
s155(E)	48	#15	1,300	—
sp150(E)	6	#15	1,870	—
t150(E)	78	#25	2,500	—
u150(E)	12	#15	3,150	—
u151(E)	6	#20	3,590	—
v150(E)	6	#15	1,650	—
w150(E)	10	#15	10,940	—
w151(E)	10	#15	10,200	—
Structure Excavation		m <sup>3</sup>	127	
Concrete Structures		m <sup>3</sup>	103.4	
Reinforcement Bars, Epoxy Coated		kg	6,900	
Bar Splicers		Each	16	
Furnishing Steel Piles HP310x79		m	200.0	
Driving Piles		m	200.0	
Pile Shoes		Each	20	
Concrete Sailer		m <sup>2</sup>	23	

**PILE DATA**  
 Type: Steel HP 12x53 with pile shoes  
 Nominal Required Bearing: 1860 kN  
 Allowable Resistance Available: 620 kN  
 Est. Length: 10.0 m  
 No. Production Piles: 20  
 No. Test Piles: None



Bar	A	B
s150(E)	900	1,300 m
s151(E)	900	1,650 m
s153(E)	900	750
s154(E)	500	450
s155(E)	400	450

- 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.

NAME	DATE

**ILLINOIS DEPARTMENT OF TRANSPORTATION**  
**PIER 15**  
**SOUTHWEST HIGHWAY OVER**  
**B&O RAILROAD AND STONY CREEK**  
 FAU 3578 SECTION 15V B-1-R-1  
 STRUCTURE NUMBER 016-2771  
 COOK COUNTY STATION 4+716.497  
 SCALE: NONE DRAWN BY: E. Mroozek  
 DATE: 6/17/09 CHECKED BY:



6/26/2009  
 8:55:57 AM  
 C:\NDOT\9556\_A0\Drawings\STRUCT\6\Pier\_15.dgn