

BILL OF MATERIAL

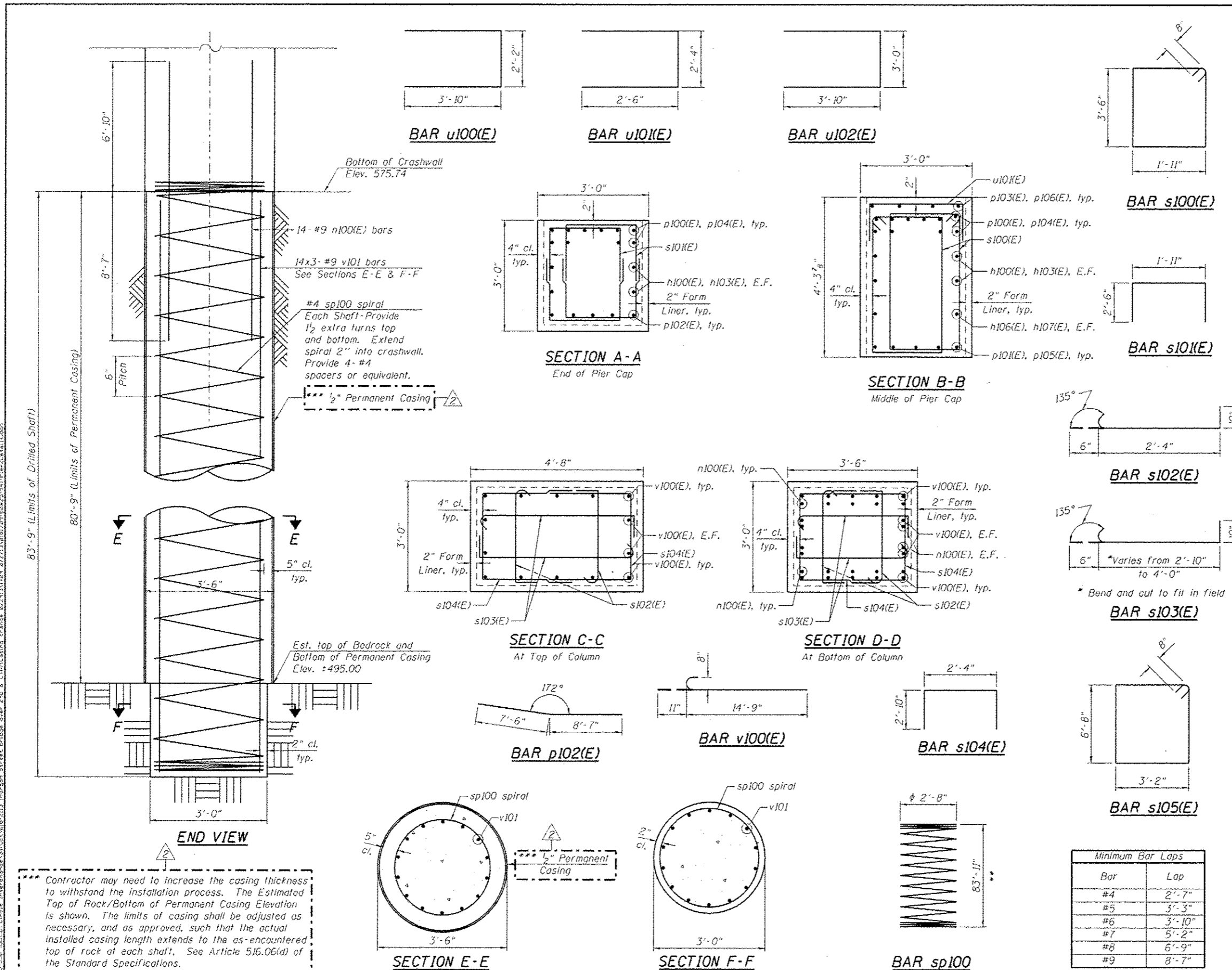
Bar	No.	Size	Length	Shape
h100(E)	4	#5	30'-9"	
h101(E)	12	#6	24'-7"	
h102(E)	10	#8	24'-7"	
h103(E)	4	#5	29'-1"	
h104(E)	12	#6	22'-11"	
h105(E)	10	#8	22'-11"	
h106(E)	2	#5	25'-9"	
h107(E)	2	#5	27'-5"	
n100(E)	112	#9	15'-5"	
p100(E)	10	#9	30'-9"	
p101(E)	5	#9	24'-3"	
p102(E)	10	#9	16'-1"	
p103(E)	4	#5	5'-8"	
p104(E)	10	#9	29'-1"	
p105(E)	5	#9	22'-3"	
p106(E)	4	#5	4'-0"	
s100(E)	190	#6	12'-2"	□
s101(E)	112	#6	6'-11"	□
s102(E)	64	#5	3'-8"	□
s103(E)	64	#5	5'-4"	□
s104(E)	64	#5	8'-0"	□
s105(E)	97	#6	21'-0"	□
sp100	8	#4	83'-11"	⋈
u100(E)	8	#6	9'-10"	□
u101(E)	12	#4	7'-4"	□
u102(E)	16	#6	10'-8"	□
v100(E)	56	#8	15'-8"	□
v101	336	#9	33'-6"	□
Structure Excavation	Cu Yd	51		
Concrete Structures	Cu Yd	83.0		
Reinforcement Bars	Pound	45,940		
Reinforcement Bars, Epoxy Coated	Pound	23,380		
Permanent Casing	Foot	646		
Drilled Shaft in Soil	Cu Yd	231		
Drilled Shaft in Rock	Cu Yd	7		
Concrete Sealer	Sq Ft	2,045		
Granular Backfill for Structures	Cu Yd	76		

**Length is height of spiral

NOTES:

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Bars noted thus, 14x3-#5 indicates 14 lines of bars with 3 lengths of bars per line.
3. Bars equally spaced, unless otherwise noted.
4. Apply concrete sealer to all exposed concrete surfaces of the pier.
5. All edges shall have standard 3/4" chamfer.
6. Spirals are measured vertically.

Bar	Lap
#4	2'-7"
#5	3'-3"
#6	3'-10"
#7	5'-2"
#8	6'-9"
#9	8'-7"



Contractor may need to increase the casing thickness to withstand the installation process. The Estimated Top of Rock/Bottom of Permanent Casing Elevation is shown. The limits of casing shall be adjusted as necessary, and as approved, such that the actual installed casing length extends to the as-encountered top of rock at each shaft. See Article 516.06(d) of the Standard Specifications.

Entire sheet revised

HBM
 HARRISON BROTHERS & COMPANY, INC.
 CONSULTING & DESIGN
 INSPECTION & TESTING
 RESEARCH & TESTING
 4415 WEST HARRISON ST.
 SUITE 231
 HILLSDALE, IL 60162
 PHONE: (708) 256-0900
 FAX: (708) 256-0901

DESIGNED	-	MI, MAF	REVISED	-	07/19/2013	MI, WM
DRAWN	-	LAB, MAF	REVISED	-	07/30/2013	MI, LAB
CHECKED	-	MAI, MI, MWM	REVISED	-		
DATE	-	6/17/2013	REVISED	-		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 2 SECTIONS AND DETAILS
STRUCTURE NO. 016-1709
 SCALE: SHEET 51-41 OF 51 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-00TR	COOK	317	185
CONTRACT NO. 60W25			ILLINOIS FED. AID PROJECT	