

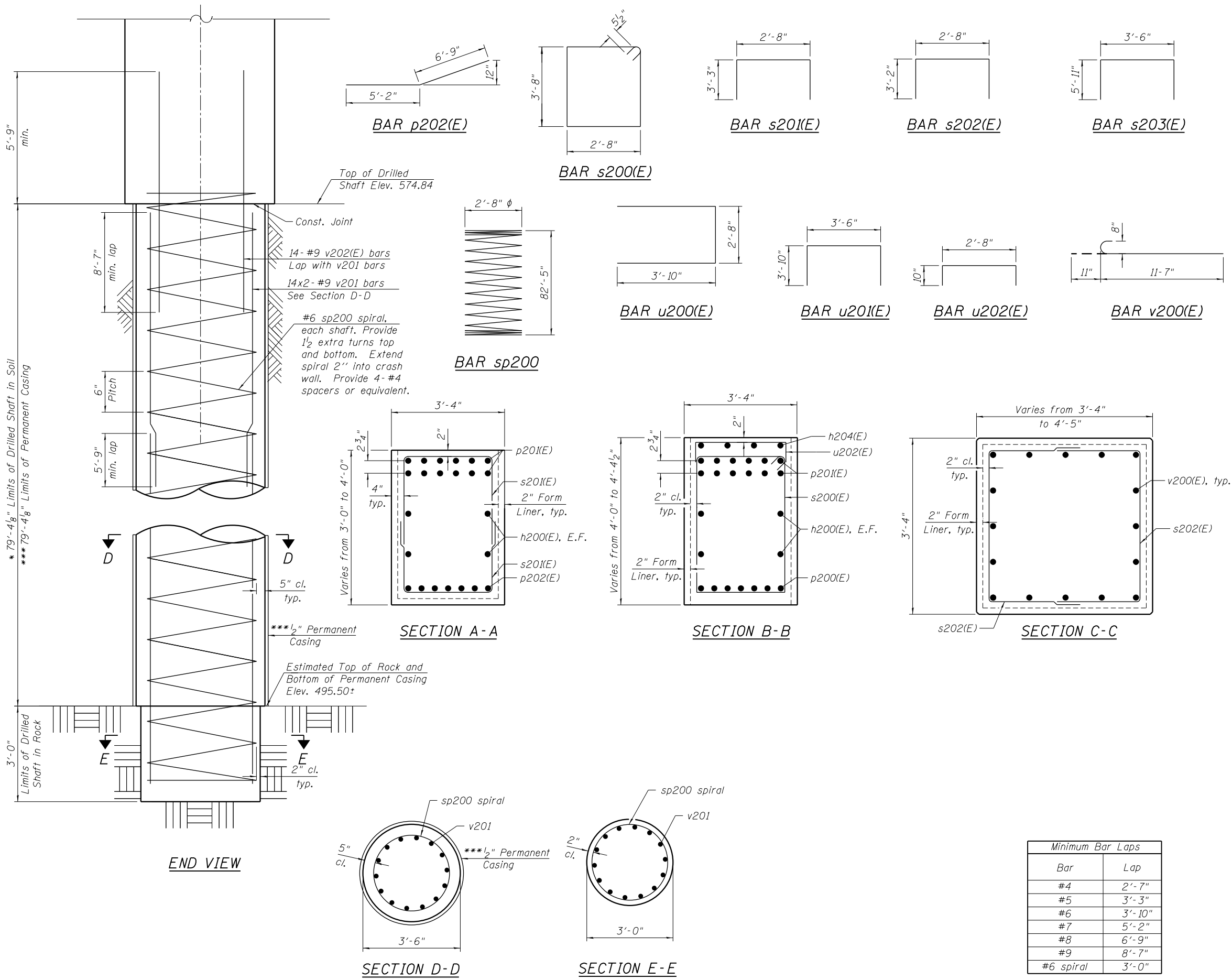
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h200(E)	4	#5	55'-4"	—
h201(E)	4	#6	53'-9"	—
h202(E)	14	#5	53'-9"	—
h203(E)	8	#9	53'-9"	—
h204(E)	4	#5	5'-11"	—
p200(E)	7	#7	42'-1"	—
p201(E)	12	#10	55'-8"	—
p202(E)	14	#7	11'-11"	—
s200(E)	85	#5	13'-7"	□
s201(E)	56	#5	9'-0"	□
s202(E)	64	#4	9'-0"	□
s203(E)	218	#6	15'-4"	□
sp200	6	#6	82'-5"	—
u200(E)	8	#6	10'-4"	□
u201(E)	18	#6	11'-2"	□
u202(E)	7	#5	4'-4"	□
v200(E)	64	#8	13'-6"	□
v201	168	#9	44'-0"	—
v202(E)	84	#9	14'-6"	—
Structure Excavation		Cu. Yd.	42	
Concrete Structures		Cu. Yd.	104.0	
Reinforcement Bars		Pound	37,600	
Reinforcement Bars, Epoxy Coated		Pound	20,530	
Permanent Casing		Foot	476	
Drilled Shaft in Soil		Cu. Yd.	169.8	
Drilled Shaft in Rock		Cu. Yd.	4.8	
Concrete Sealer		Sq. Ft.	1973	

Bars indicated thus 1x15 etc., indicates 1 line of bars with 15 lengths per line.

- Notes:
- Apply concrete sealer to all exposed concrete surfaces of the pier.
 - The quantities and reinforcement detailing are based on the top of shaft and the estimated top of rock elevations shown and may change based on the actual top of rock encountered at each shaft and the final top of shaft elevation.
 - Length is height of spiral.
 - 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.

Minimum Bar Laps	
Bar	Lap
#4	2'-7"
#5	3'-3"
#6	3'-10"
#7	5'-2"
#8	6'-9"
#9	8'-7"
#6 spiral	3'-0"



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USER NAME = BAWIort	DESIGNED JRM	REVISED
CHECKED KAH	REVISIONS	
PLOT SCALE = 0x2.0000 '1' / in.	DRAWN MTS	REVISED
PLOT DATE = 10/28/2013	CHECKED MDS	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 1 DETAILS
STRUCTURE NO. 016-1708
SHEET NO. 45 OF 55 SHEETS

MUN 2090	SECTION 2013-011R	COUNTY COOK	TOTAL SHEETS 356	SHEET NO. 177
CONTRACT NO. 60W29			ILLINOIS FED. AID PROJECT	