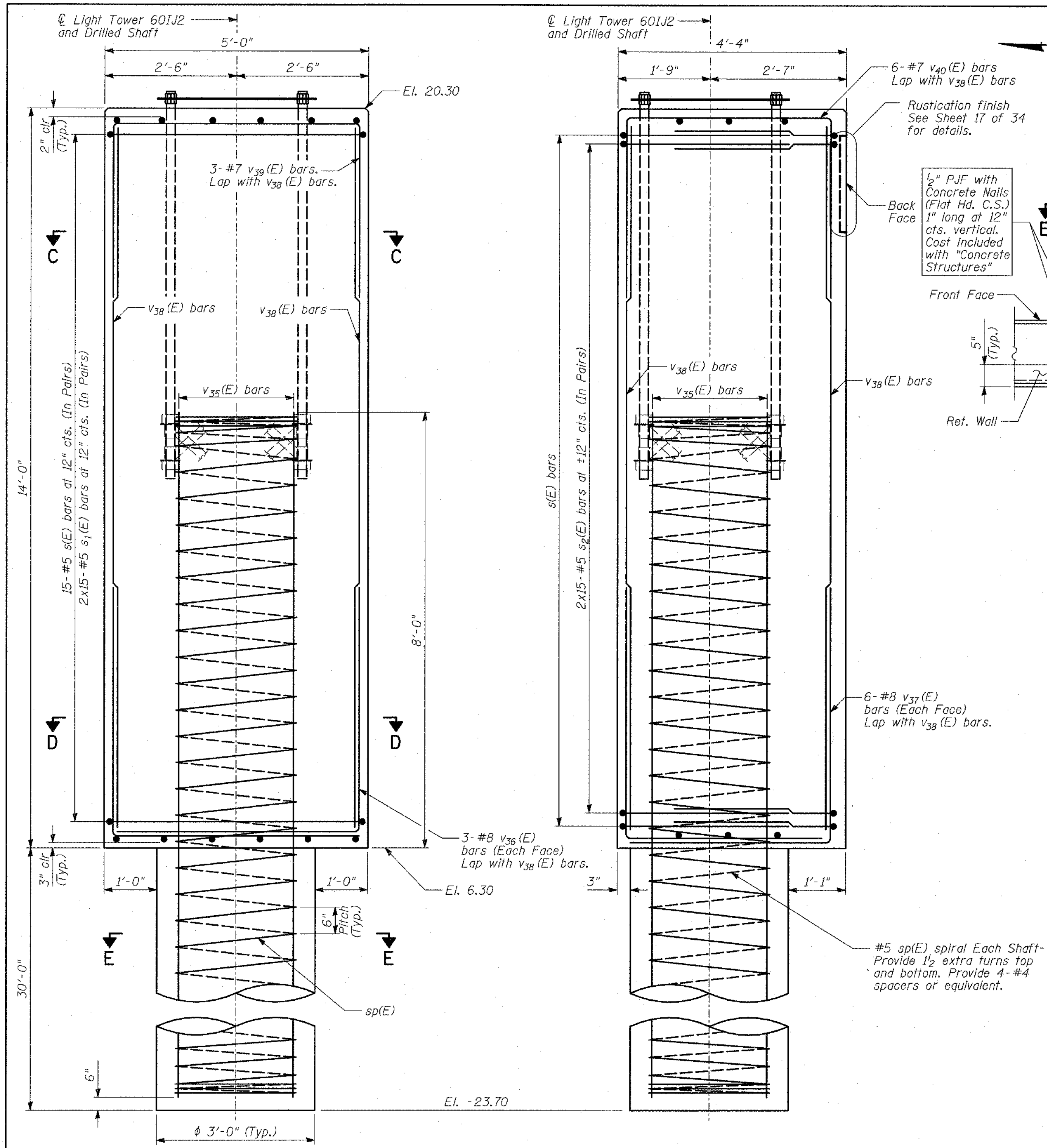
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	907	486

STA. 1200+00.00 TO STA. 1365+00

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

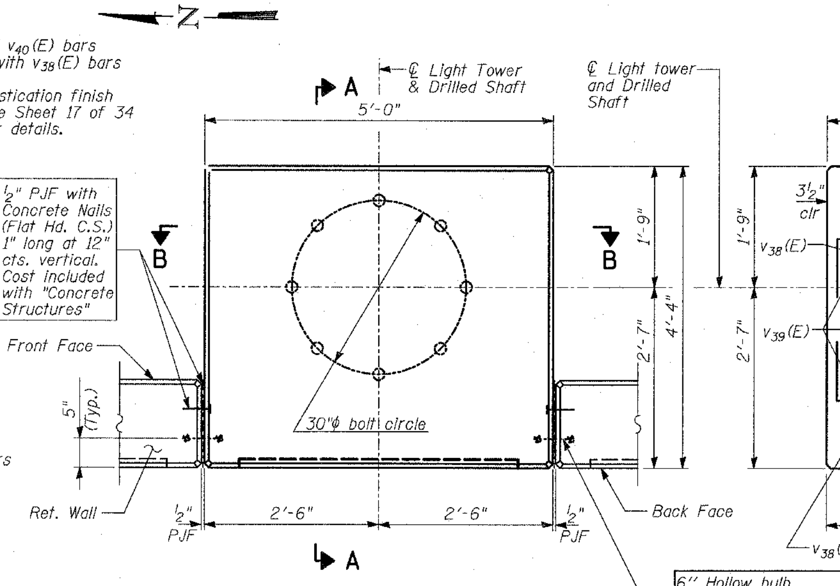
* (1516.1, 1717 & 1818) R-9

62695

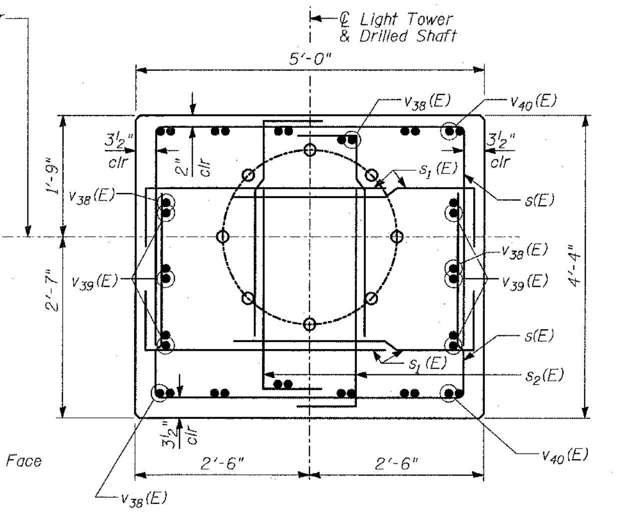


SECTION B-B

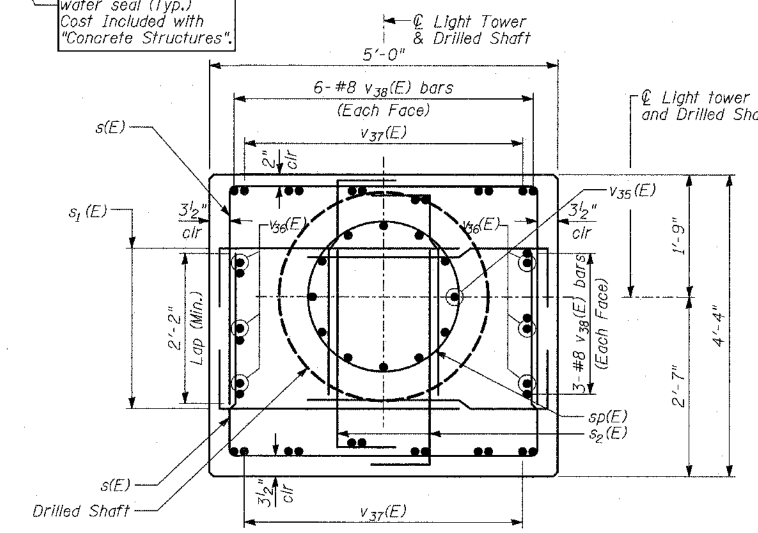
SECTION A-A



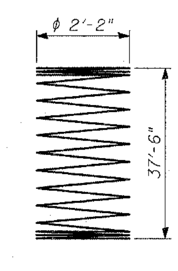
PLAN-LIGHT TOWER 60IJ2



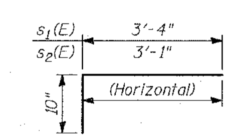
SECTION C-C



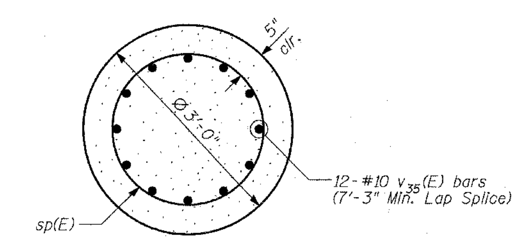
SECTION D-D



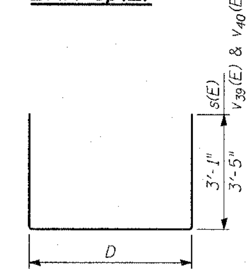
BAR sp(E)



BARS s_1(E) & s_2(E)



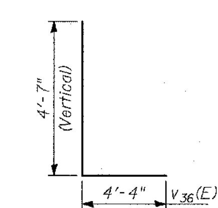
SECTION E-E



BARS s(E), v_{39}(E) & v_{40}(E)

MARK TABLE

Bar	D
s (E)	4'-5"
v_{39}(E)	4'-4"
v_{40}(E)	3'-10"



BARS v_{36}(E) & v_{37}(E)

BILL OF MATERIAL

(For Each Light Tower Foundation)

Bar	No.	Size	Length	Shape
s (E)	30	#5	10'-7"	
s_1(E)	60	#5	4'-2"	
s_2(E)	60	#5	3'-11"	
sp (E)	1	#5	37'-6"	
v_{35}(E)	12	#10	37'-6"	
v_{36}(E)	6	#8	8'-11"	
v_{37}(E)	12	#8	8'-4"	
v_{38}(E)	18	#8	13'-6"	
v_{39}(E)	3	#7	11'-2"	
v_{40}(E)	6	#7	10'-8"	
Reinforcement Bars, Epoxy Coated			POUND	4,590
Structure Excavation			CU YD	6
Concrete Structures			CU YD	12
Protective Coat			SQ YD	17
Rustication Finish			SQ FT	8
Drilled Shaft in Soil 36"			FOOT	30

Reinforcement bars designated (E) shall be epoxy coated.

NOTES:

1. The design loads are based on AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminares and Traffic Signals-2001.
2. Drilled shafts shall be installed according to the special provisions for "Drilled Shafts".
3. Concrete: f'c = 3,500 psi
   Reinforcing: fy = 60,000 psi
4. At all locations where reinforcement bar laps are not in direct contact, the Contractor shall provide sufficient spacing between the vertical bars, equal to the size of the largest concrete aggregate plus ½ inch.
5. For location of drilled shaft, see Sheet 5 of 34.
6. Conduit is not shown for clarity. For location of conduit, see Sheet 15 of 34.
7. Cost of anchor rod assembly, conduit and wires for grounding are included with "Concrete Structures".
8. For Expansion Joint Details, see Sheet 16 of 34.
9. Minimum lap for spirals = 2'-6"

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)
RETAINING WALL ALONG LAFAYETTE AVE.
93RD ST. TO 91ST ST.
WALL 36
LIGHT TOWER 60IJ2 FOUNDATION DETAILS

S.N. 016-W948 — DESIGNED BY: TD, MAF
SCALE: N.T.S. — DRAWN BY: MAF, DJR
DATE: MARCH 25, 2005 — CHECKED BY: TD, MI

TYLIN INTERNATIONAL

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