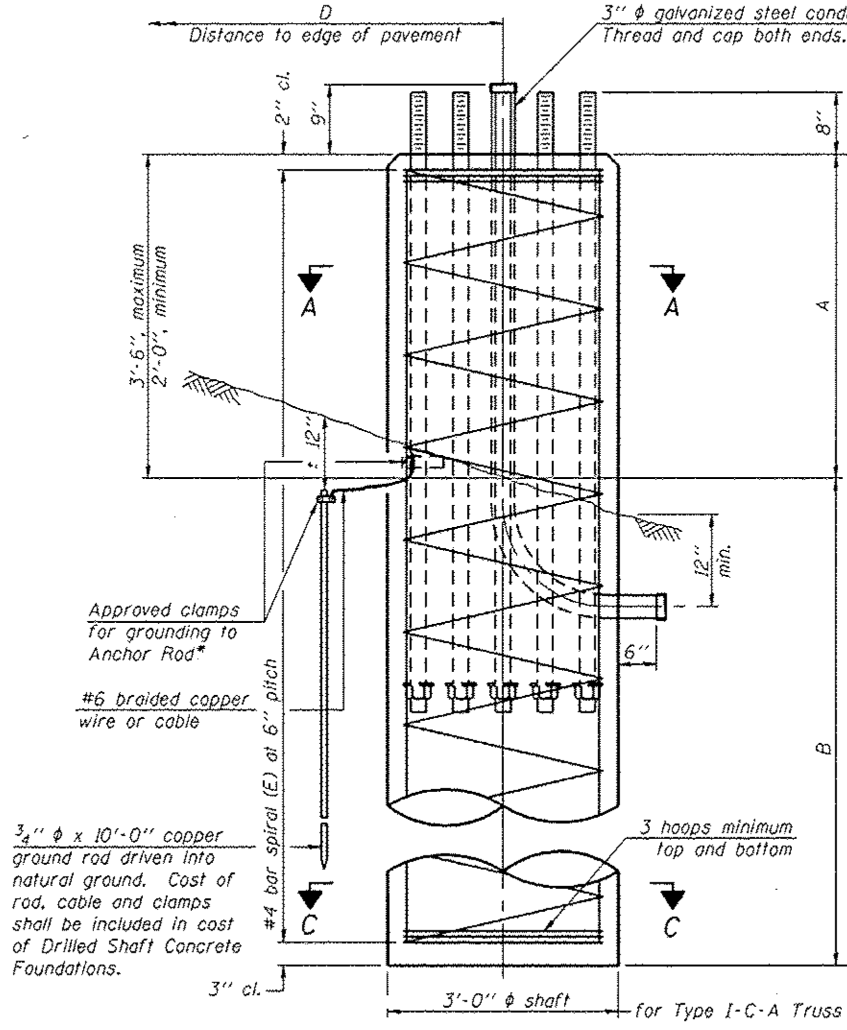

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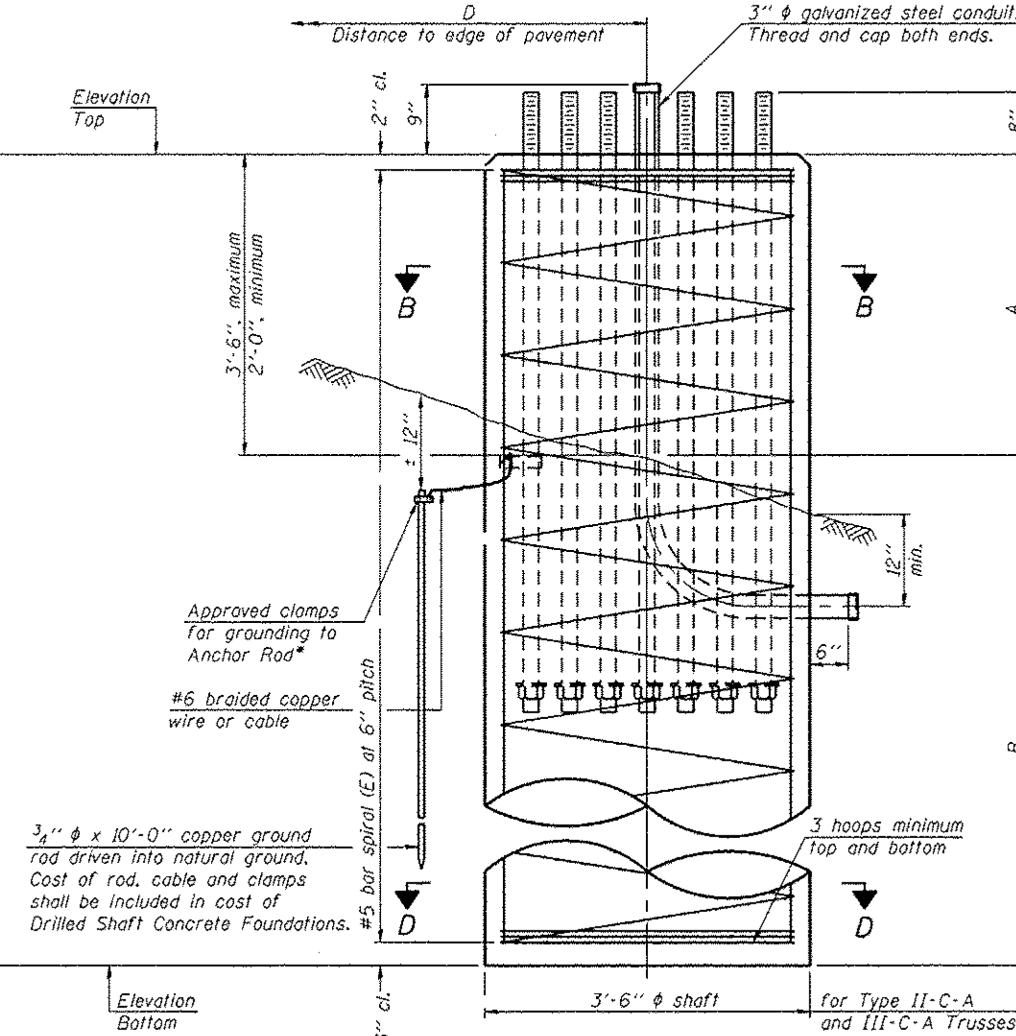

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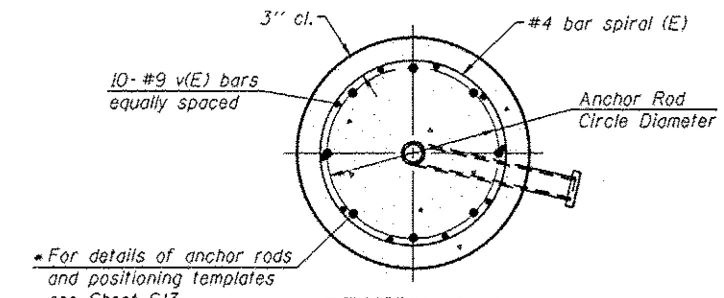
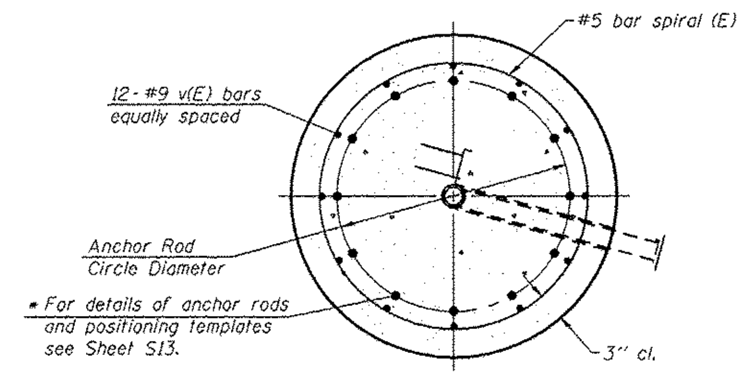
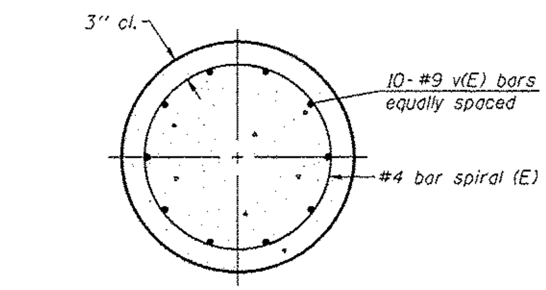


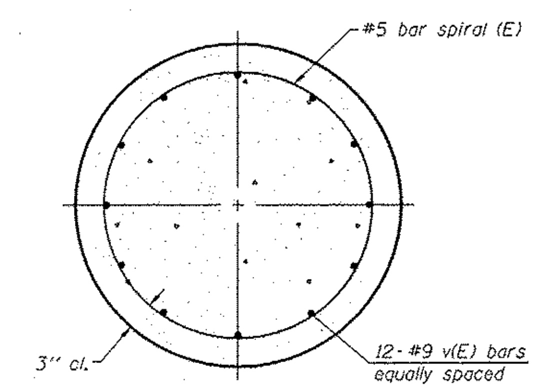
SECTION A-A
3'-0" ϕ shaft



SECTION B-B
3'-6" ϕ shaft



SECTION C-C
3'-0" ϕ shaft



SECTION D-D
3'-6" ϕ shaft

NOTES

1. The foundation dimensions shown in the Foundation Design Table are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf. which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown in the Foundation Data Table will be the result of site specific designs. If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified.

2. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

3. No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

4. Concrete shall be placed monolithically, without construction joints. A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in "Drilled Shaft Concrete Foundation".

5. Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

(6.) Survey elevations are not available for this Location. The Contractor is responsible to obtain survey elevations and then determine the vertical dimensions and elevations for the column and foundation.

7. * Grind anchor rod to bright finish at ground clamp location before installing clamp.

(8.) The drilled shaft is 3" into a concrete barrier at Location 19. Section B-B depicts the drilled shaft below the barrier. See Sheet S16 for details of concrete barrier including reinforcement bars and anchor rods.

FOUNDATION DESIGN TABLE

Truss Type	Post Base Sheet	Maximum Cantilever Length (ft)	Maximum Total Sign Area (sq ft)	Shaft Diameter (ft)	"B" Depth (ft)	Anchor Rods No.	Anchor Rods Diameter (in)	Anchor Rod Circle Diameter (in)
I-C-A	OSC-A-4	25	170	3.0	16.0	8	2	22
II-C-A	OSC-A-5	30	170	3.5	17.0	12	2	30
II-C-A	OSC-A-5	30	340	3.5	21.5	12	2	30
III-C-A	OSC-A-5	35	170	3.5	19.0	12	2	30
III-C-A	OSC-A-5	35	250	3.5	22.5	12	2	30
III-C-A	OSC-A-5	35	400	3.5	26.5	12	2	30
III-C-A	OSC-A-5	40	400	3.5	32.0	12	2	30

FOUNDATION DATA TABLE

Structure Number	Location	Station	Truss Type	Shaft Diameter (ft)	Elevation Top	Elevation Bottom	Qu	A	B	F	Class DS Concrete Cubic Yards
IC049U041L000.0-001	3	53+30.5	III-C-A	3.5	670.78	641.53	2.7 TSF	2'-9"	26'-6"	29'-3"	10.4
IC049U041R000.0-000	4	60+63.6	III-C-A	3.5	654.00	628.75	2.6 TSF	2'-9"	22'-6"	25'-3"	9.0
IC045S056R000.0-000	5	106+00	III-C-A	NA	733.62	NA	NA	NA	NA	NA	0.0
IC022S038R000.0-001	8	59+30.6	III-C-A	3.5	677.95	652.37	3.8 TSF	3'-1"	22'-6"	25'-7"	9.2
IC016I090R081.9-000	9	3502+10	II-C-A	3.5	NOTE 6	NOTE 6	2.1 TSF	2'-9"	17'-0"	19'-9"	7.1
IC016I090R082.5-000	10	3533+10	II-C-A	3.5	NOTE 6	NOTE 6	3.8 TSF	2'-9"	17'-0"	19'-9"	7.1
IC016I090R083.9-000	11	3608+10	II-C-A	3.5	NOTE 6	NOTE 6	3.3 TSF	2'-9"	17'-0"	19'-9"	7.1
IC022S083L000.0-003	19	966+51.9	III-C-A	3.5	NOTE 8	677.15	2.5 TSF	3"	26'-6"	26'-9"	9.6

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GRAEF 8501 W. Higgins Road, Suite 280 Chicago, Illinois 60631 (773) 399-0112	USER NAME =	DESIGNED -	REVISED
		CHECKED -	REVISED
	PLOT SCALE =	DRAWN - 09/05/2013	REVISED
	PLOT DATE =	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALUMINUM CANTILEVER SIGN TRUSS; STEEL COLUMN
DRILLED SHAFT FOUNDATION

SHEET NO. S14 OF 28 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D1 OVD SIN STR REPL14-30	VARIOUS	53	23
		CONTRACT NO. 46291		
	ILLINOIS FED. AID PROJECT			