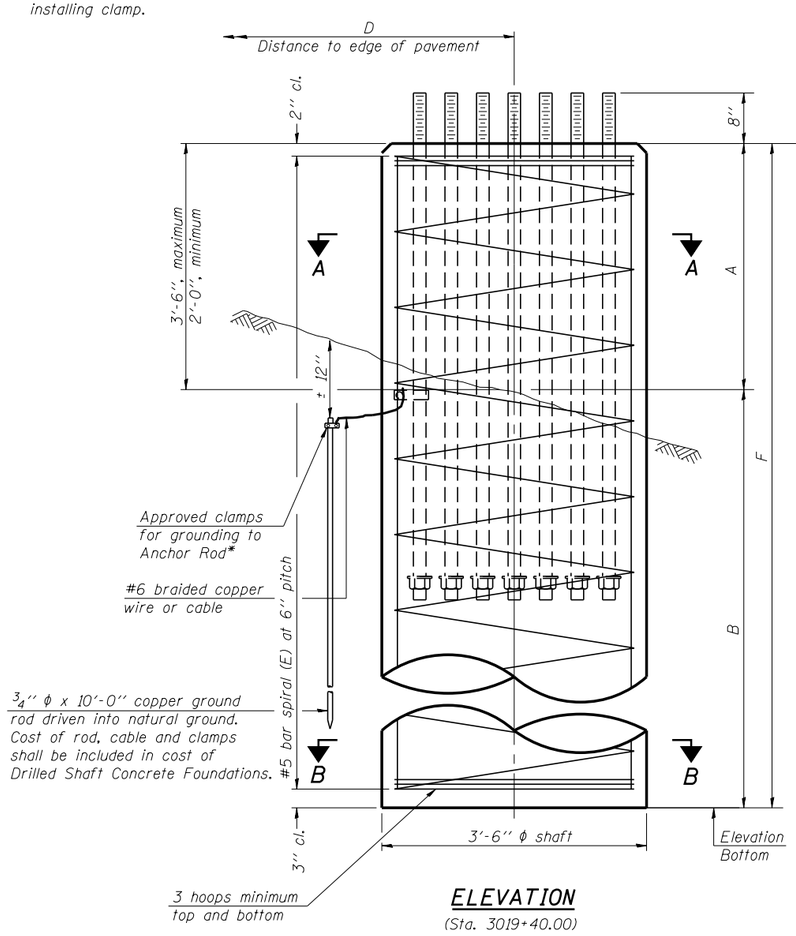
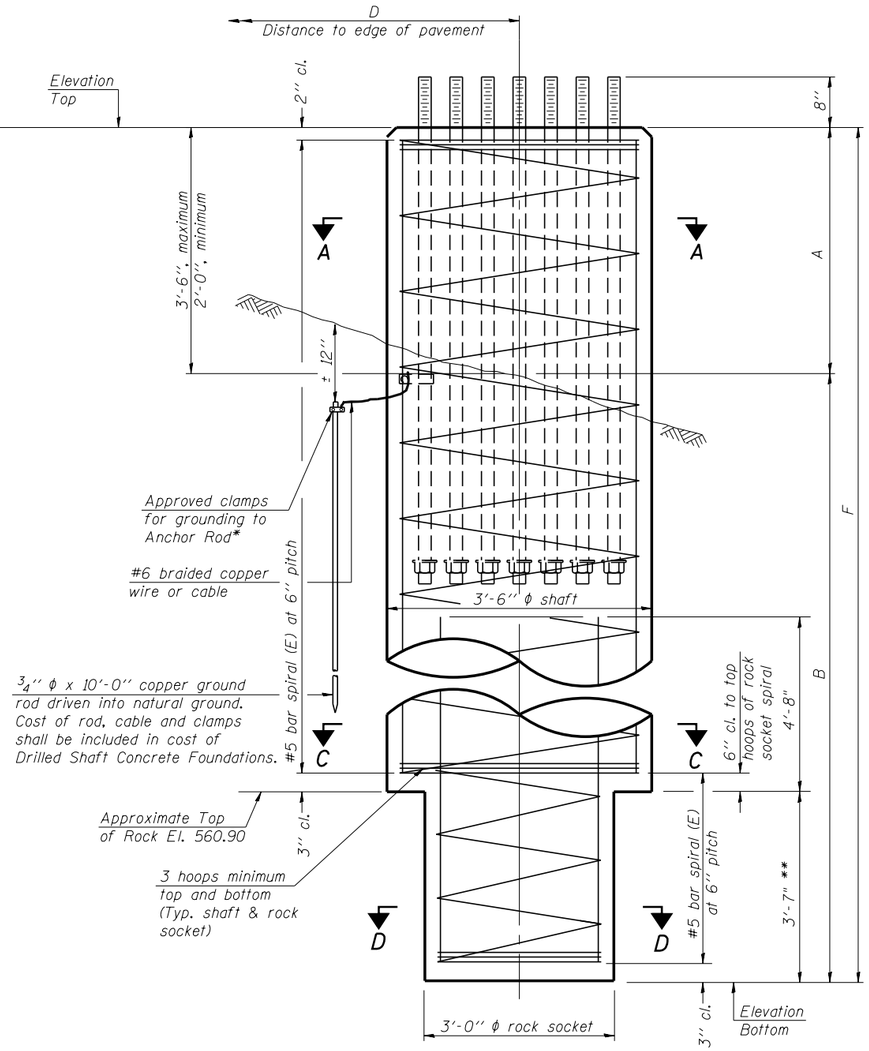
* Grind anchor rod to bright finish at ground clamp location before installing clamp.



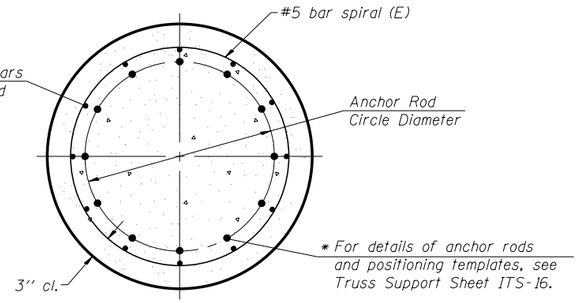
ELEVATION

(Sta. 3019+40.00)



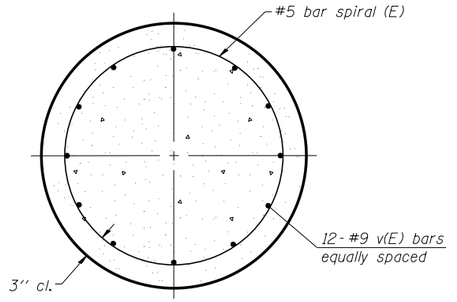
ELEVATION

(Sta. 3010+20.00)



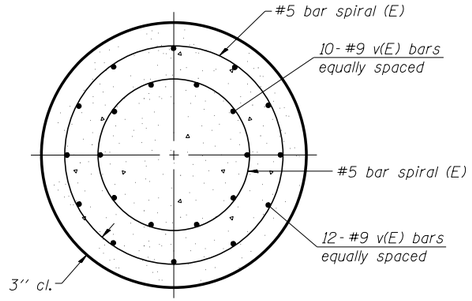
SECTION A-A

3'-6" ϕ shaft



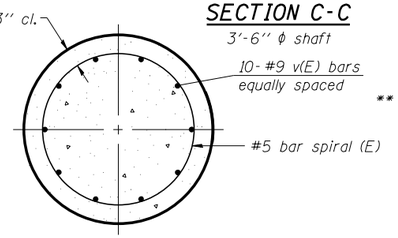
SECTION B-B

3'-6" ϕ shaft



SECTION C-C

3'-6" ϕ shaft



SECTION D-D

3'-0" ϕ rock socket

NOTES:

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. 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.

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.

Concrete shall be placed monolithically, without construction joints.

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

A normal surface finish followed by a Bridge Seat Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in "Drilled Shaft Concrete Foundation".

FOUNDATION DESIGN TABLE

Truss Type	Truss Supp. Sheet	Maximum CantileverLength (ft)	Maximum Total Sign Area (sq ft)	Shaft Diameter (in)	"B" Depth (ft)	Anchor Rods		Anchor Rod Circle Diameter (in)
						No.	Diameter (in)	
II-C-A	ITS-16	30	170	3.5	17.0'	12	2	30

FOUNDATION DATA TABLE

Structure Number	Station	Truss Type	Shaft Diameter	Elevation Top	Elevation Bottom	Qu	A	B	F	Class DS Concrete Cubic Yards
2C081LRIVR000.7	3010+20.00	II-C-A	3.5'	574.32	557.32	***	3.0'	14.0'	17.0'	5.8****
2C081LRIVL000.6	3019+40.00	II-C-A	3.5'	575.01	555.01	***	3.0'	17.0'	20.0'	7.2

** Excavation in rock shall be according to Section 516 of the Standard Specifications and shall be paid for as "Rock Excavation for Structures". Concrete and reinforcement bars in the rock socket are included in "Drilled Shaft Concrete Foundations", the limits of which extend from the top of the shaft to the bottom of the rock socket.

*** Soils are typically a mix of granular and cohesive materials with no Qu values as shown on the soil boring logs on Sheet ITS-22. The design details and foundation data shown on this sheet are a result of site specific designs.

**** Quantity includes rock socket volume.

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312-565-0450 Job No. 10064.02

ITS-21

FILE NAME = ArtCantDMS-TBD-100-ArtCantDMSSupp01.dgn	USER NAME = knaus	DESIGNED - MFB/MFH	REVISED -
		CHECKED - KJN	REVISED -
	PLOT SCALE =	DRAWN - MFB	REVISED -
MODEL: E 10 OS-A-9 Cantilever Sign Structures	PLOT DATE = 3/6/2014	CHECKED - KJN	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS ARTERIAL DMS POLE
CANTILEVER SIGN STRUCTURES – DRILLED SHAFT
ALUMINUM TRUSS & STEEL POST

SHEET NO. 10 OF 11 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5756	(81-1)M	ROCK ISLAND	217	147
		CONTRACT NO. 64J68		
		ILLINOIS FED. AID PROJECT		

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