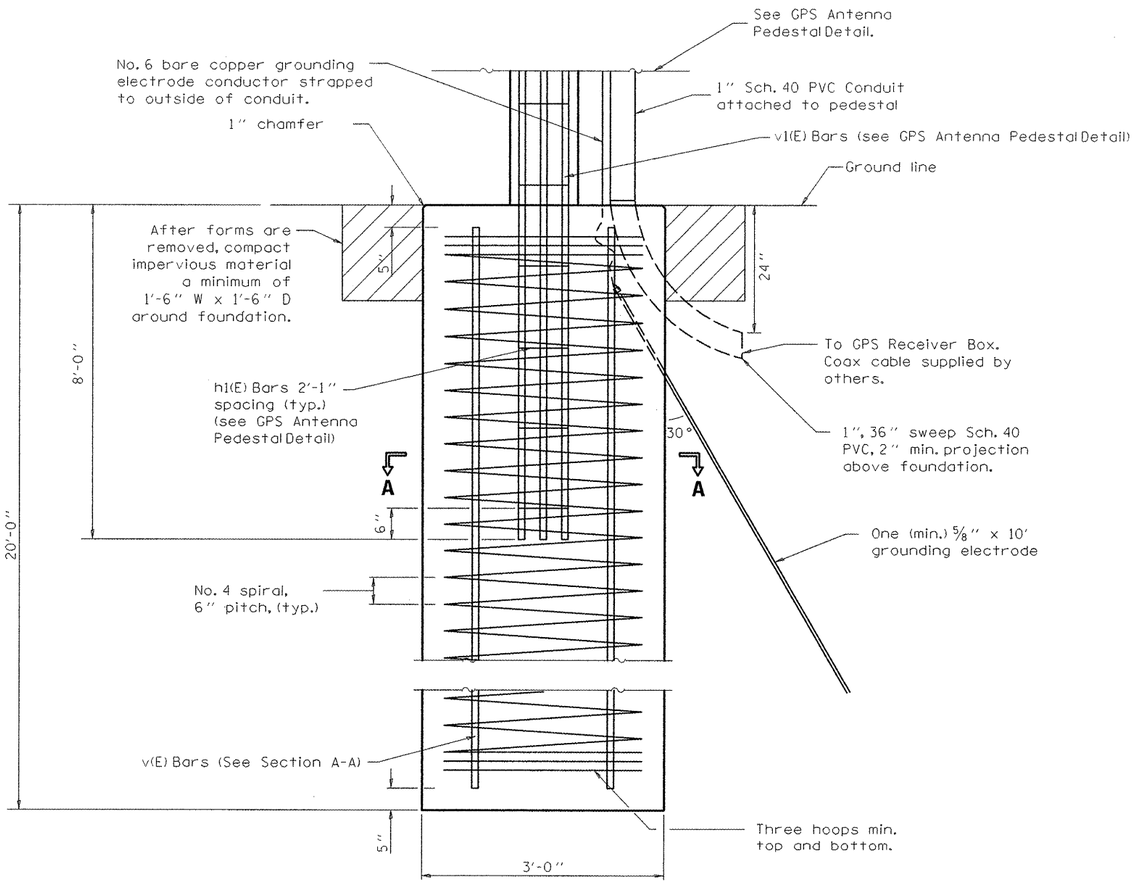
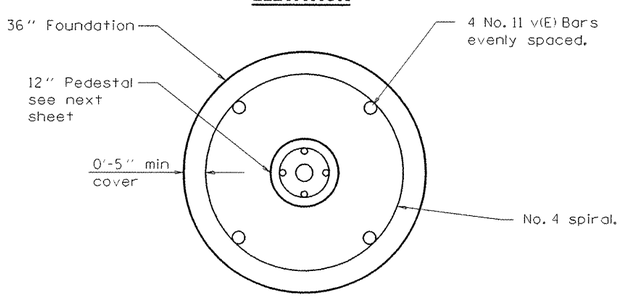


FOUNDATION ELEVATION



SECTION A–A

GENERAL NOTES

All foundation reinforcement steel shall be epoxy coated.

The cost of reinforcement and concrete shall be included in the cost of the foundation.

The foundation and pedestal shall be poured monolithically and shall have no construction joints.

Grounding electrodes shall be installed in an access well when there is a conflict in using the method shown.

All dimensions are in inches unless otherwise shown.

The shaft length(s) shall be based on soil borings in the plans. If different soils are encountered, the engineer shall be notified to provide a revised length.

Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 1

Date 3/2/11

ROUTE FAI Rt. 74 (West Bound) DESCRIPTION Mast Arm at Off Ramp to Salt Kettle Rest Area LOGGED BY CNA

SECTION Sign Structure LOCATION NE, SEC. 8, TWP. 19N, RNG. 12W, 2nd PM GPS:

COUNTY Vermilion DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 5 C 092 1074
Station L208.35
Rt. 103+00

BORING NO. 1 Cantilever
Station 20' W of Exist.
Offset 200.0 ft Lt.
Ground Surface Elev. 638.1 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter ft
Upon Completion Dry ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown Mottled Silt Loam			
	8		
-5	8 8	1.0 S	21
632.1			
Brown Sandy Clay Loam Till	3		
	5 6	1.0 B	14
	4		
	6 15	2.3 B	14
-10 627.6			
Brown Mottled Silt with Intermittent Fine Sand Seams	18		
	10 11	2.5 B	21
	10		
	15 35	3.5 B	10
-15 622.1			
Brown Dirty Coarse Sand with Gravel (Trace of Water)	25		
	35 40		
619.6			
Brown Sand Loam Till	19		
	18 25		10
-20			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown Sand Loam Till *(continued)*			
614.6	50-3"		
Gray Sandy Clay Loam Till			
-25			
(No Sample Obtained)			
(Drilled Very Hard - 5 ft in 10 Minutes)			
(*NOTE: soil boring taken 20' West and 8' South of existing foundation)	50-3"		
608.1 -30			9
End of Boring			
-35			
-40			

An assumed centerline elevation of 100.00 and station of 10+00 is used when this information is not available.
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N Value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

3/2/2011 11:45:35 PM C:\PROGRAM FILES\GINT\PROJECTS\092-337 MAST ARM SALT KETTLE RA.GPJ

FILE NAME =	USER NAME = hoganbj	DESIGNED - BJH 7/29/2011	REVISED -
c:\pw_work\pwidot\hoganbj\d0273753\D570963-sht-details.dgn		DRAWN - BJH 7/29/2011	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - ____	REVISED -
	PLOT DATE = 10/5/2011	DATE - _____	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GPS ANTENNA FOUNDATION DETAIL

SCALE: ____ SHEET NO. __ OF ___ SHEETS STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	GPS CORE STATION 2012-1	VEMILION	8	6
		CONTRACT NO. 70963		
		ILLINOIS FED. AID PROJECT		