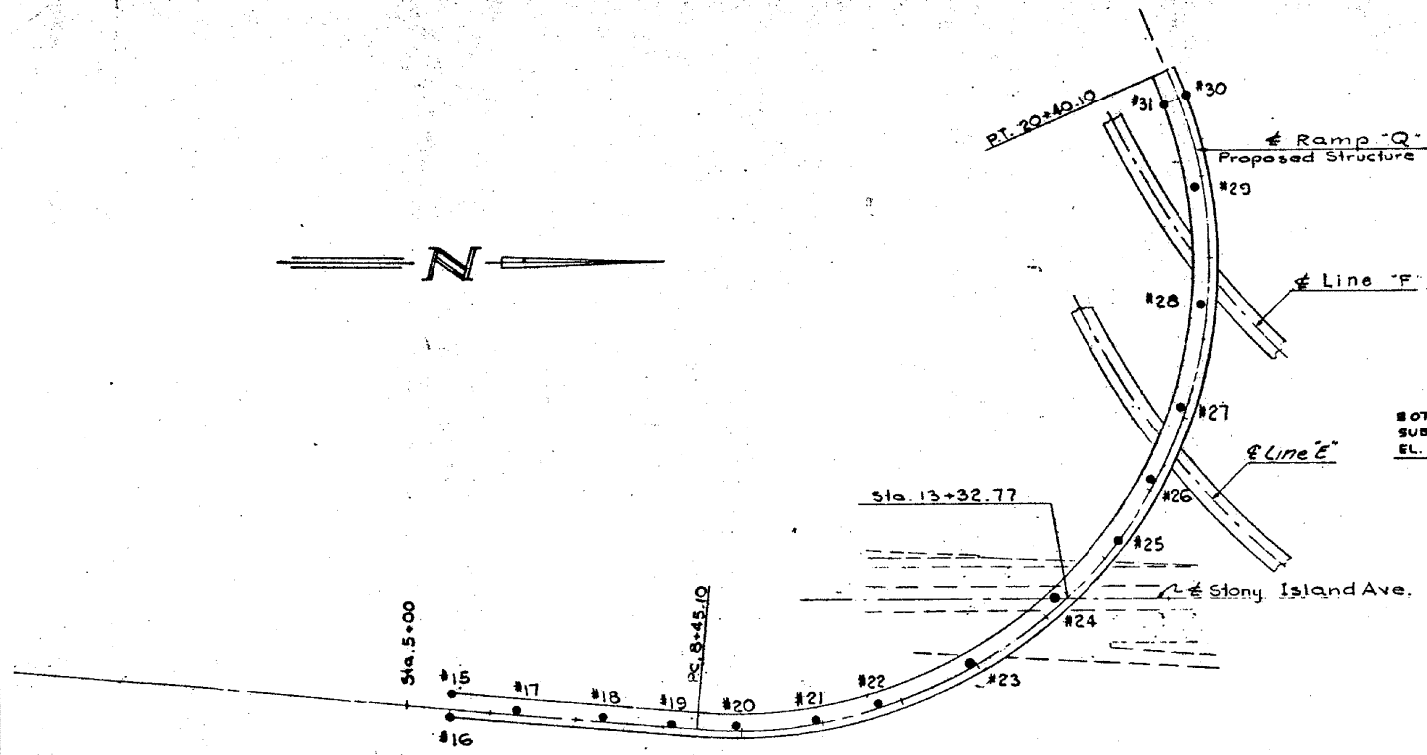


2/27/2012 PM

12/7/2012

SA:\072\_05\_CADD\_Structure\1\SN\_0162437\CADD\_Sheets\062437-60J12-979-F16.dgn



**BORING LOCATION LINE "Q"**  
 SCALE: 1"=100'  
 See Sheet "7, 8 & 9"

**GENERAL NOTES:**

Classifications are made from visual inspection.  
 Water Levels (W/L): Figure indicates time of reading (hours) after completion of boring. Water levels indicated are those observed when borings were made, or as noted. Porosity of the soil strata, variations of rainfall, site topography, etc., may cause changes in these levels.  
 Figures in right hand column indicate number of blows required to drive 2" O. D. sampling pipe one foot, using a 140 lb. weight falling 30 inches.

INDICATES ROCK CORE DRILLING  
 A = AMOUNT OF ROCK CORE RECOVERED (INCHES)  
 B = DEPTH OF ROCK CORE DRILLED (INCHES)

BL = WATER ENCOUNTERED WHILE ADVANCING BORING  
 N = STANDARD PENETRATION TEST - NUMBER OF BLOWS REQUIRED TO DRIVE 3" O. D. SPLIT SPOON SAMPLER 1' USING 140# WEIGHT FALLING 30"  
 QU = UNCONFINED COMPRESSIVE STRENGTH (TONS PER SQUARE FOOT)  
 W/C = WATER CONTENT - PERCENTAGE OF OVER DRY WEIGHT (%)

NOTE A: STIFF DARK BROWN SILT, TRACE CLAY & SAND.  
 NOTE B: STIFF DARK BROWN SILT, LITTLE CLAY, TRACE ROOTS

NOTE C: MEDIUM DENSE GREY SILT WITH SAND, SOME CLAY (ROCK FRAGMENT & SAND WAS NOTED @ 39'10" - SAND WAS LIT & BURNED FOR 52 HOURS)

NOTE D: HARD GREY SILTY CLAY, SOME SAND & GRAVEL.  
 NOTE E: VERY DENSE GREY, VERY FINE SAND WITH SILT.

The Cook County Highway Department has acquired for its own use certain information relating to soil conditions to be encountered along the route of the work. The Contractor will be permitted to see and examine this information for whatever value he considers it worth. Any additional borings deemed necessary by the contractor shall be made at his own expense, and delay or extra expenditures in the construction due to different types of soil encountered, shall not be paid for directly but shall be considered as incidental to the contract. See special provisions regarding Sub Pier (Soil Bearing)

Boring No. 21 Sta. 9+92  
7' Left

GROUND SURFACE ELEVATION	N	QU	W/C	Q'
44.54'	17	11.5		
0'	8	17.4		
0'	8	19.1		8'10"
(STIFF)	12	2.4 17.6		9'0"
12	1.9 19.1			
13	3.3 17.1			
23	5.3 17.7			
21	4.3 18.8			19'0"
23	4.5 17.5			
25	5.6 18.1			26'10"
26	6.2 12.8			
28	7.4 12.5			
30	7.8 12.7			
25	7.7 15.0			
30	17.8 14.3 37.1*			39'10"
				DRY - NO BL

Boring No. 22 Sta. 10+72  
7' Left

GROUND SURFACE ELEVATION	N	QU	W/C	Q'
44.19'	15	13.7		
0'	8	19.8		
10	3.7 17.5			8'13"
12	2.8 16.1			
14	3.1 17.6			
13	3.1 17.1			
14	3.5 17.2			18'6"
28	7.3 16.9			
34	7.1 10.8			
24	7.2 11.0			
25	6.4 11.3			
22	6.4 13.2			
23	6.4 12.0			
28	5.4 14.4			
22	5.0 14.8			39'3"
17	1.6 16.4			
15	2.1 13.8			43'0"
22	3.4 13.2			
22	3.3 14.2			
21	3.9 14.2			
25	5.8 14.2			
28	6.2 15.3 55'10"			
				DRY - NO BL

Boring No. 15 Sta. 5+50  
20' Left

GROUND SURFACE ELEVATION	N	QU	W/C	Q'
43.16'	21	7.4		
0'	14	17.8	41%	5'02"
VERY STIFF (HARD) BROWN SILT, TRACE CLAY, SMALL-MEDIUM GRAVEL & SAND	16	4.1 15.4		
15	3.4 15.7			
17	3.6 17.9			14'0"
VERY STIFF GREY SILT, VERY LITTLE CLAY, SMALL-MEDIUM GRAVEL & SAND	25	3.5 16.8		
27	3.5 16.0			18'6"
31	9.0 18.5			
17	5.0 11.8			
24	12.4			
17	5.5 13.0			
39	4.1 11.2			
23	5.1 13.0			
25	5.2 12.8			
31	4.4 14.1			
26	2.5 11.5			
24	6.7 12.2			
20	6.2 12.8 45'10"			

Boring No. 16 Sta. 5+50  
6' Right

GROUND SURFACE ELEVATION	N	QU	W/C	Q'
43.52'	44	12.8		
0'	9	16.9	41%	
VERY STIFF DARK BROWN CLAYEY SILT, TRACE ROOTS & FINE GRAVEL	13	3.0 21.5		
15	2.3 16.4			11'10"
21	2.7 13.9			
18	2.8 17.7			
28	4.2 11.9			17'0"
37	4.5 10.8			
40	7.1 10.8			
37	7.1 11.5			
44	7.7 12.3			
32	5.7 12.5			
32	4.9 13.5			
35	5.7 13.5			
37	4.3 13.0			
37	2.9 12.3			
33	1.0 12.5			
44	0.9 15.2			
41	7.8 12.2			
39	6.4 10.2 50'6"			

Boring No. 17 Sta. 6+30  
7' Right

GROUND SURFACE ELEVATION	N	QU	W/C	Q'
43.61'	9	17.2	3'6"	
0'	16	28.2	6'10"	
VERY STIFF BROWN SILT, LITTLE CLAY, TRACE FINE GRAVEL & SAND	12	3.3 17.4		9'10"
15	3.2 15.8			
25	3.2 16.1			
19	3.4 18.2			
23	3.7 17.5			
21	3.7 17.0			
24	3.7 18.2			
21	5.2 14.7			
23	4.4 13.9			
25	4.5 14.6			
23	3.6 15.3			
26	3.7 12.4			39'16"
13	1.0 29.1 41'10"			
18	4.3 12.7			
29	6.2 12.5			
34	5.3 11.6			
31	6.7 14.3			
41	7.4 14.9			
70	7.8 14.6			
54	6.9 18.0 58'10"			

Boring No. 18 Sta. 7+31  
7' Left

GROUND SURFACE ELEVATION	N	QU	W/C	Q'
43.54'	40	4.2		
0'	16	16.0	5'10"	
VERY STIFF BROWN SILT WITH CLAY, FINE-MEDIUM SAND & GRAVEL	16	3.2 17.1		8'10"
19	2.4 11.3			11'10"
21	2.4 18.0			
28	4.6 12.8			
35	7.3 10.3			
36	8.7 10.8			
36	4.9 13.1			
25	5.3 12.9			
36	5.3 12.2			
36	4.1 14.8			
30	4.4 13.0			
38	6.6 9.5			
39	9.5 12.3			
28	7.6 11.7			
47	5.7 13.3			
47	8.8 11.3 50'16"			

Boring No. 19 Sta. 8+11  
7' Left

GROUND SURFACE ELEVATION	N	QU	W/C	Q'
44.35'	25	14.5	2'10"	
0'	CONCRETE			5'10"
VERY STIFF BROWN SILT WITH CLAY, FINE-MEDIUM SAND & GRAVEL	13	2.8 17.3		8'10"
11	2.1 17.7			
16	3.0 14.5			
22	4.5 14.6			
24	5.0 17.7			21'0"
36	5.5 10.8			26'10"
24	7.4 11.1			
30	6.8 11.2			
26	7.3 12.7			
30	6.8 11.4			
26	7.0 12.1			
28	6.4 12.1			39'10"
25	6.3 12.8 37'4"			

Boring No. 20 Sta. 8+31  
7' Left

GROUND SURFACE ELEVATION	N	QU	W/C	Q'
44.31'	10	13.8		
0'	8	10.3		
10	11	18.7		8'6"
15	2.0 17.5			
18	3.0 14.9			
15	2.8 18.3			
17	3.9 18.7			
24	4.3 18.1			21'10"
24	8.1 11.8			
24	7.1 11.9			
25	8.5 12.4			
25	7.0 13.4			
25	8.4 10.3			
25	6.3 12.8 37'4"			

DEPARTMENT OF HIGHWAYS  
 COOK COUNTY, ILLINOIS  
 GEORGE W. DUNNE  
 PRESIDENT BOARD OF COMMISSIONERS SUPERINTENDENT OF HIGHWAYS

**BORING LOGS**  
 STONY ISLAND CONNECTOR TO FAI 94  
 RAMP Q STRUCTURE

PROJECT EBU 246.120  
 SCALE 1/4"=1'-0"  
 APPROVED [Signature] COUNTY HWY. Route No. 122 SHEET 51 TOTAL SHEETS 109 DRAWING NO. 174A

BOWMAN, BARRETT & ASSOCIATES INC.  
 CONSULTING ENGINEERS  
 Chicago, Illinois  
 312.228.0100  
 www.bbainc.com

USER NAME =	DESIGNED -	REVISED -
PLOT SCALE =	CHECKED - BAK	REVISED -
PLOT DATE = 11/08/2012	DRAWN -	REVISED -
	CHECKED -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

EXISTING PLANS (FOR INFORMATION ONLY)  
 STRUCTURE NO. 016-2437

SHEET NO. S-79 OF S-83 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2012-060-BR	COOK	285	242
CONTRACT NO. 60V61				
ILLINOIS FED. AID PROJECT				