



# CITY OF TAMPA

Bob Buckhorn, Mayor

CONTRACT ADMINISTRATION DEPARTMENT

Michael W. Chucran, Director

## ADDENDUM 2

**DATE: July 13, 2017**

Contract 17-C-00042; Hillsborough River Dam MFL Low Flow Control Gate

Bidders on the above referenced project are hereby notified that the following addendum is made to the Contract Documents. BIDS TO BE SUBMITTED SHALL CONFORM TO THIS NOTICE.

Item 1: The Bid Date for the above referenced project is hereby changed to August 1, 2017.

Item 2: A site visit will be conducted Tuesday, July 18 at 8:30 a.m.

Address: 7801 N. 30th Street, Tampa  
Directions: From the North or South Using I-275  
Take the Sligh Avenue Exit  
Turn East and proceed to N. 30th Street  
Turn North on N. 30th Street  
Continue on No. 30th Street to Dead End (past Rogers Park Golf Course)

From the North or South Using Florida or Nebraska Avenues  
Turn East on Sligh Avenue, proceed as described above

From the East or West  
Use 1-275 or Florida or Nebraska Avenues  
Proceed as described above

Security: Water Dept. staff will meet visitors at Security Gate  
This will be a guided tour  
Attendees are asked to be prompt

Item 3: Attached for information are as-built drawings from the re-construction and expansion of the dam that occurred in 1944 and 1945.

Item 4: Attached for information are drawings of repair work undertaken in the vicinity of the abandoned sluice gate bay. The sluice gate was abandoned in 1953.

Item 5: Attached for information are Borings undertaken in 1925 at the north end of the current structure, approximately 300 to 350 ft. north of the construction area of the proposed work.

306 E. Jackson Street, 4N • Tampa, Florida 33602 • (813) 274-8456 • FAX: (813) 274-8080

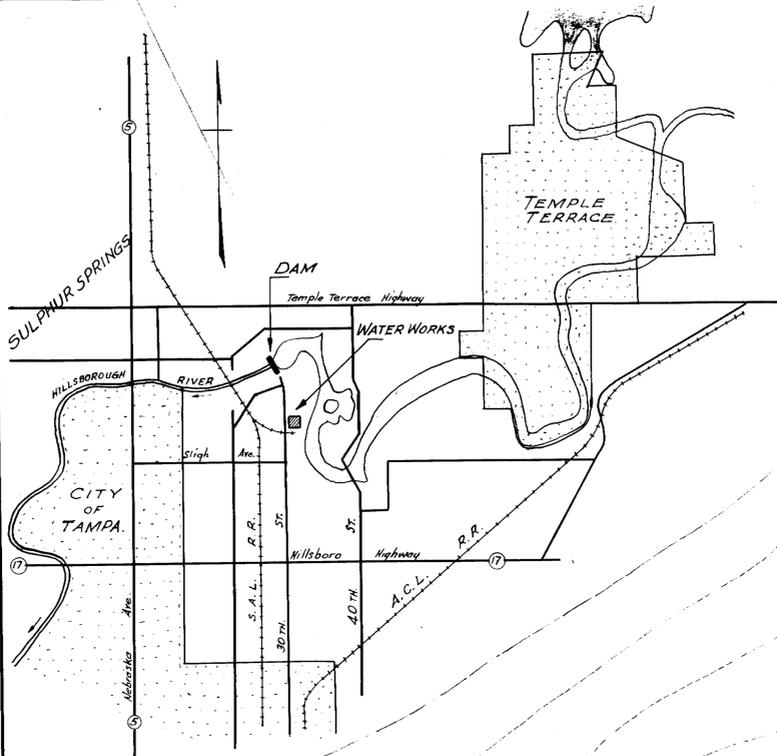
- Item 6: Attached for information is a Geotechnical investigation report conducted in 2010 along the tailrace of the dam.
- Item 7: Attached for information is a soil boring location map related to Item 6.
- Item 8: Attached for reference is a copy of the pre-bid meeting sign-in sheet.

All other provisions of the Contract Documents and Specifications not in conflict with this Addendum shall remain in full force and effect. Questions are to be e-mailed to [Contract Administration@tampagov.net](mailto:ContractAdministration@tampagov.net).

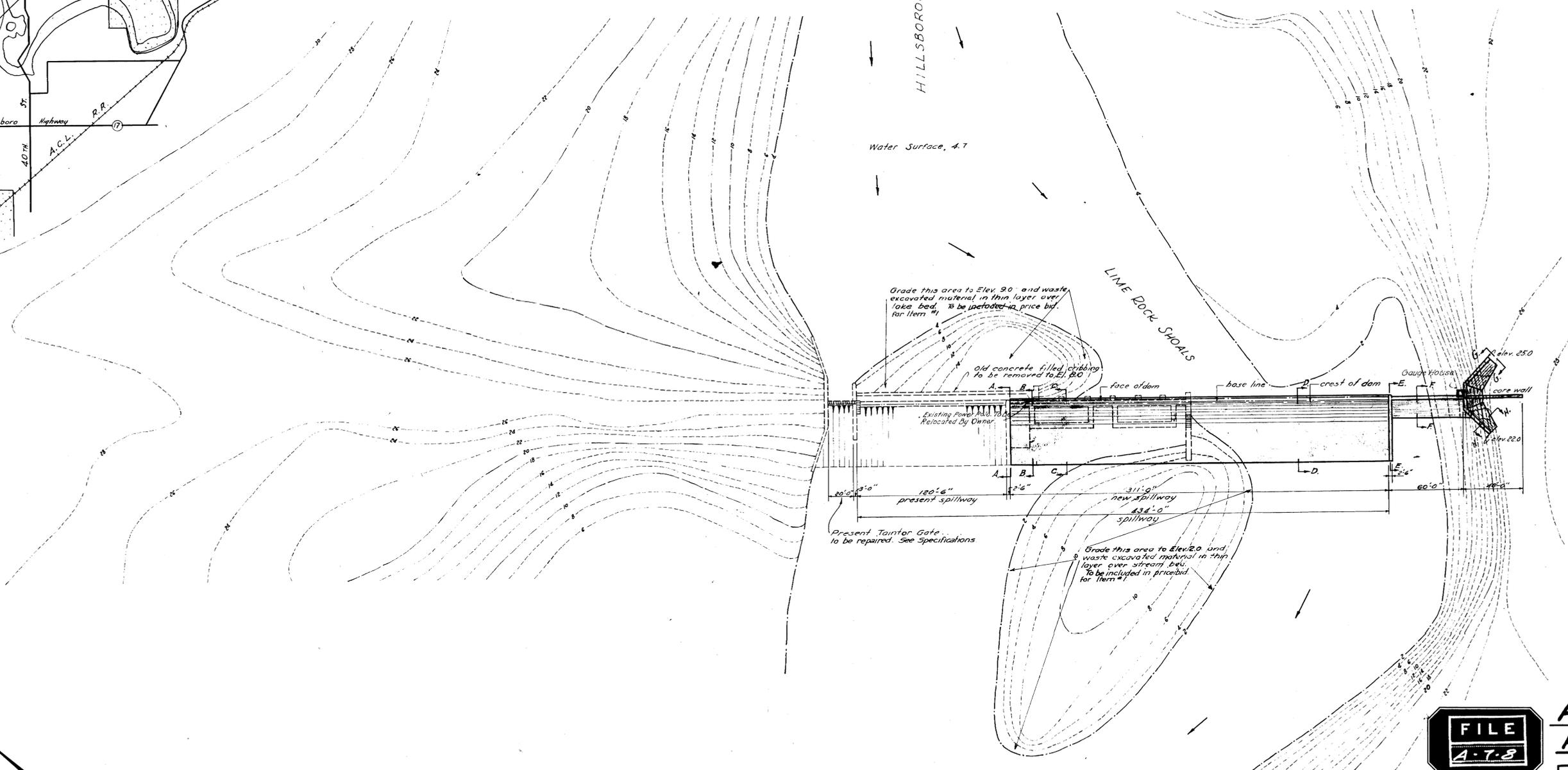
*Jim Greiner*

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Jim Greiner, P.E., Contract Management Supervisor



LOCATION MAP  
Scale 1"=4000'



Water Surface 2.6

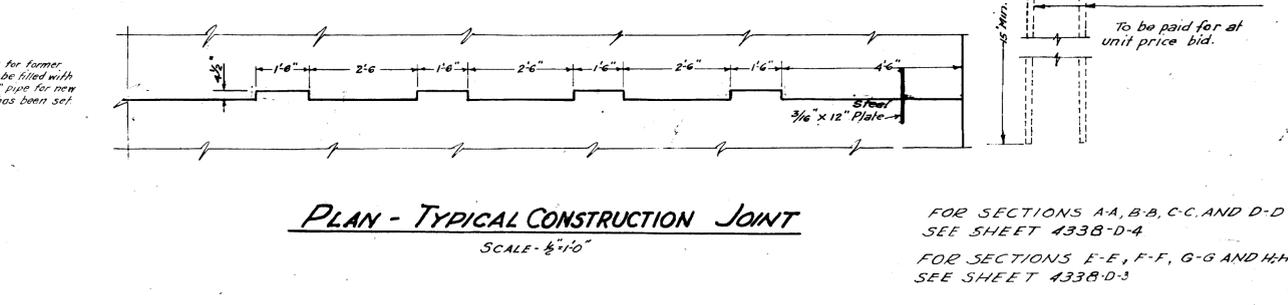
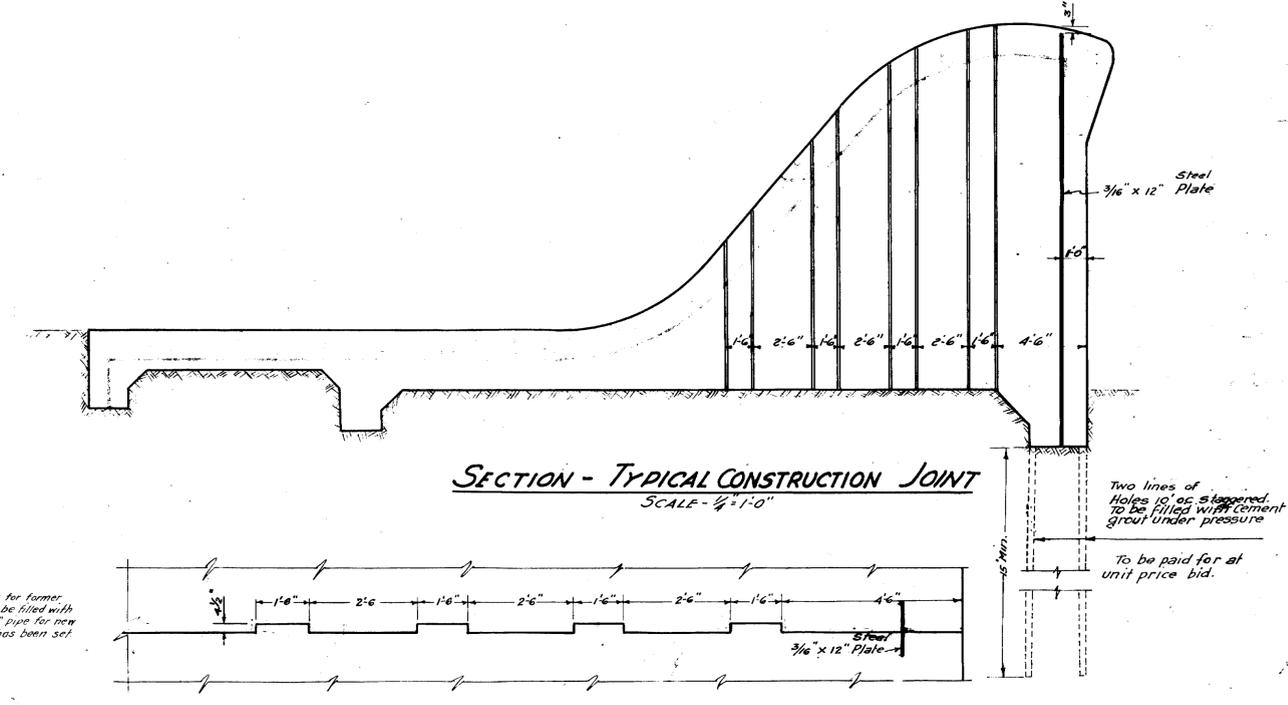
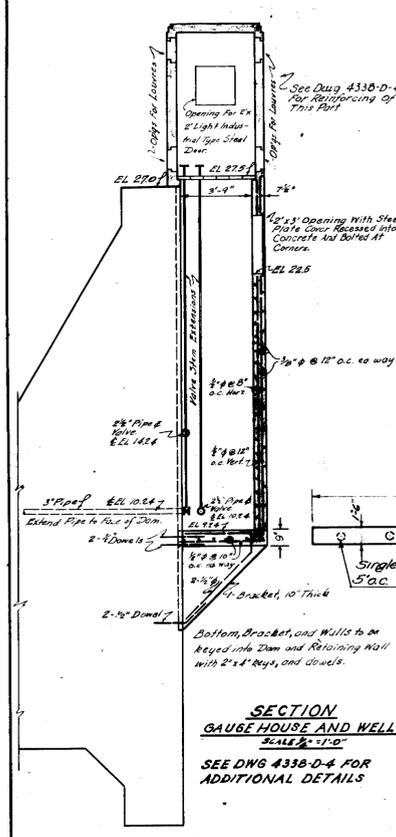
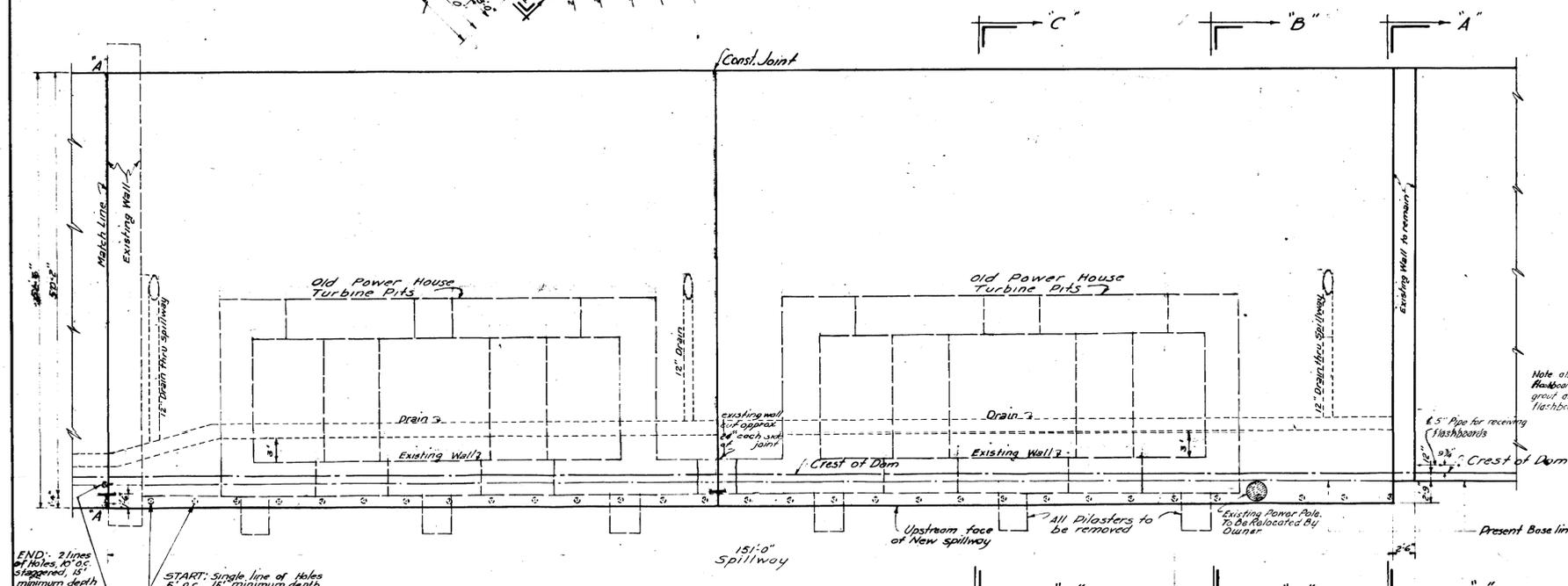
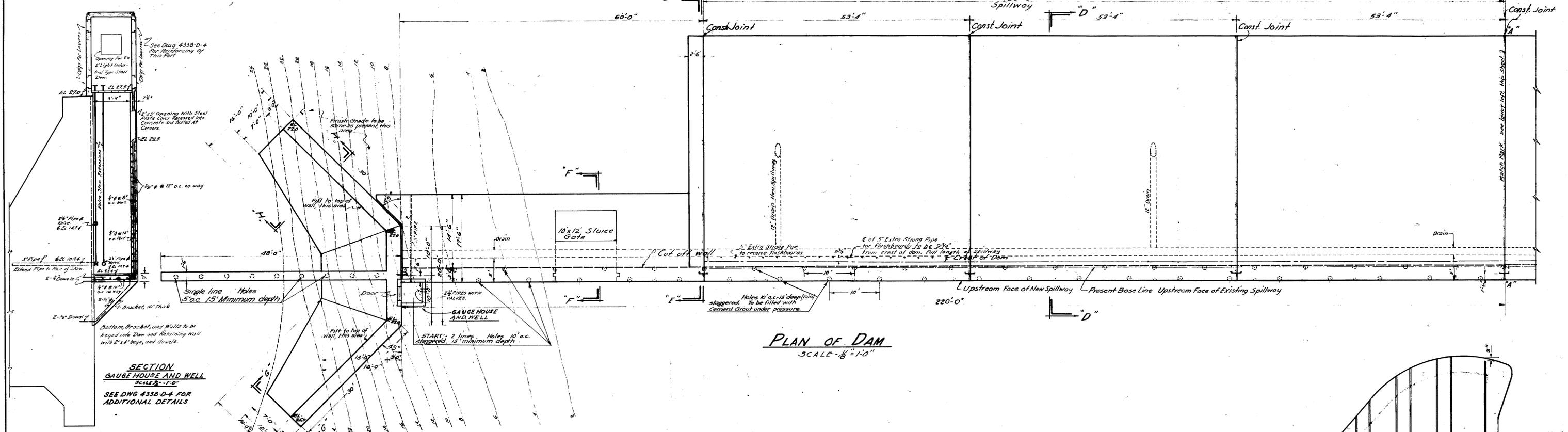


**PROPOSED DAM**  
**PLOT PLAN - 1" = 40'-0"**

REVISED	CHECKED	DATE	BY	DESIGNED	DATE	BY

ROBERT AND COMPANY  
ARCHITECTS AND ENGINEERS  
ATLANTA  
**CITY OF TAMPA,  
TAMPA, FLORIDA.**  
IN CHARGE OF: **R. G. HICKLIN**  
DRAWN BY: **Wm. R. ...** SCALE 1"=40'  
CHECKED BY: **J. M. R. ...** DATE: ...  
SHEET No. **4338-D-1**

Note: Construction of Gauge House and Well shall be included in price bid for Item 1

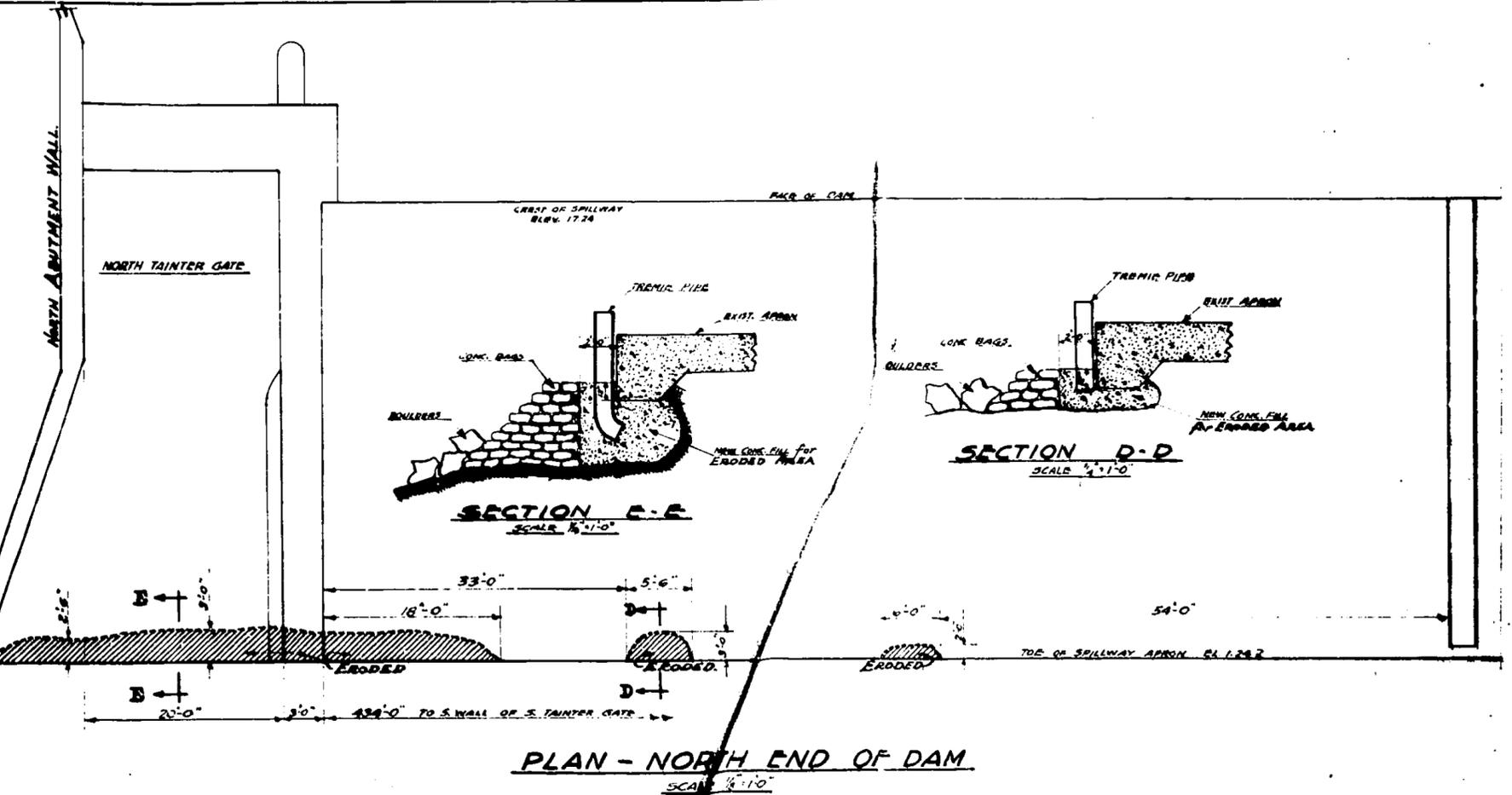
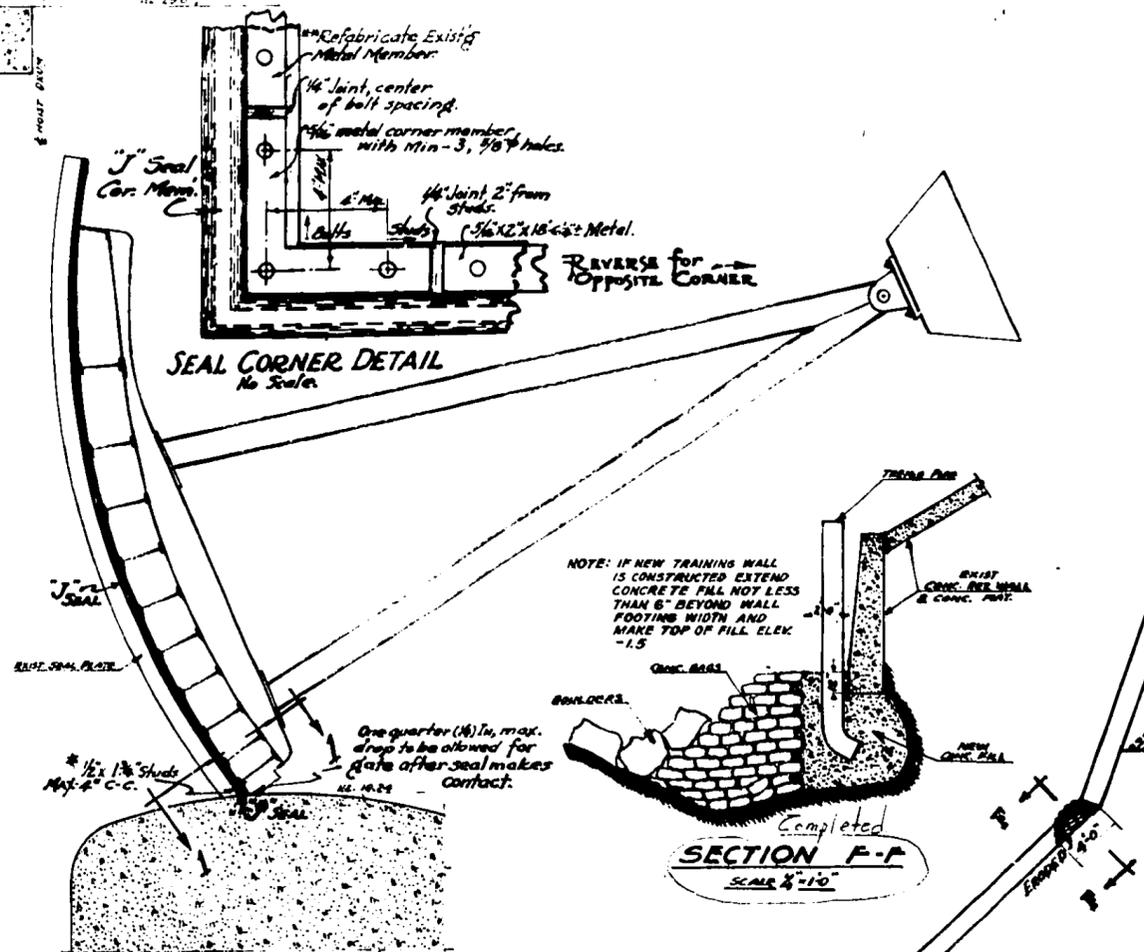


FOR SECTIONS A-A, B-B, C-C AND D-D SEE SHEET 4338-D-4  
FOR SECTIONS E-E, F-F, G-G AND H-H SEE SHEET 4338-D-3

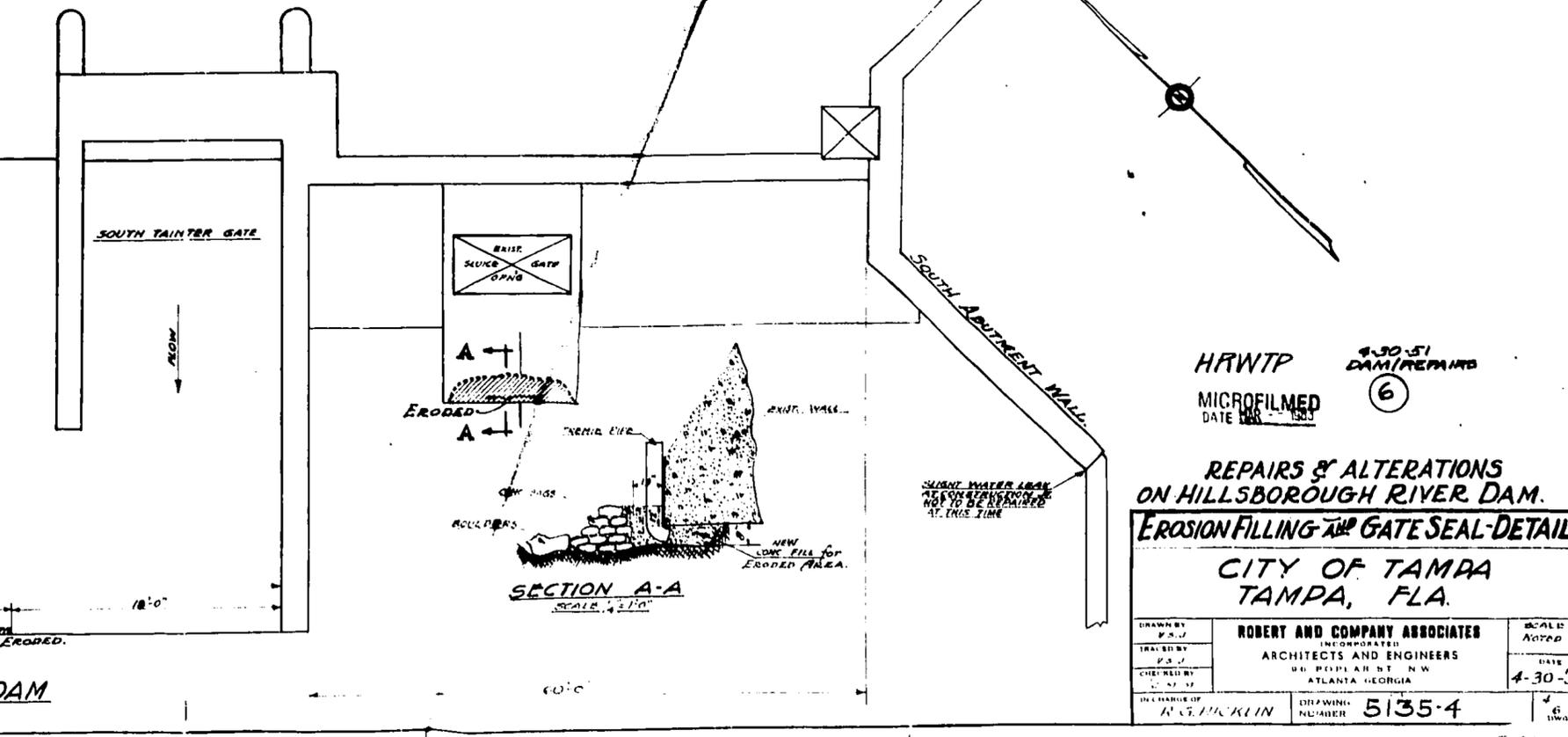
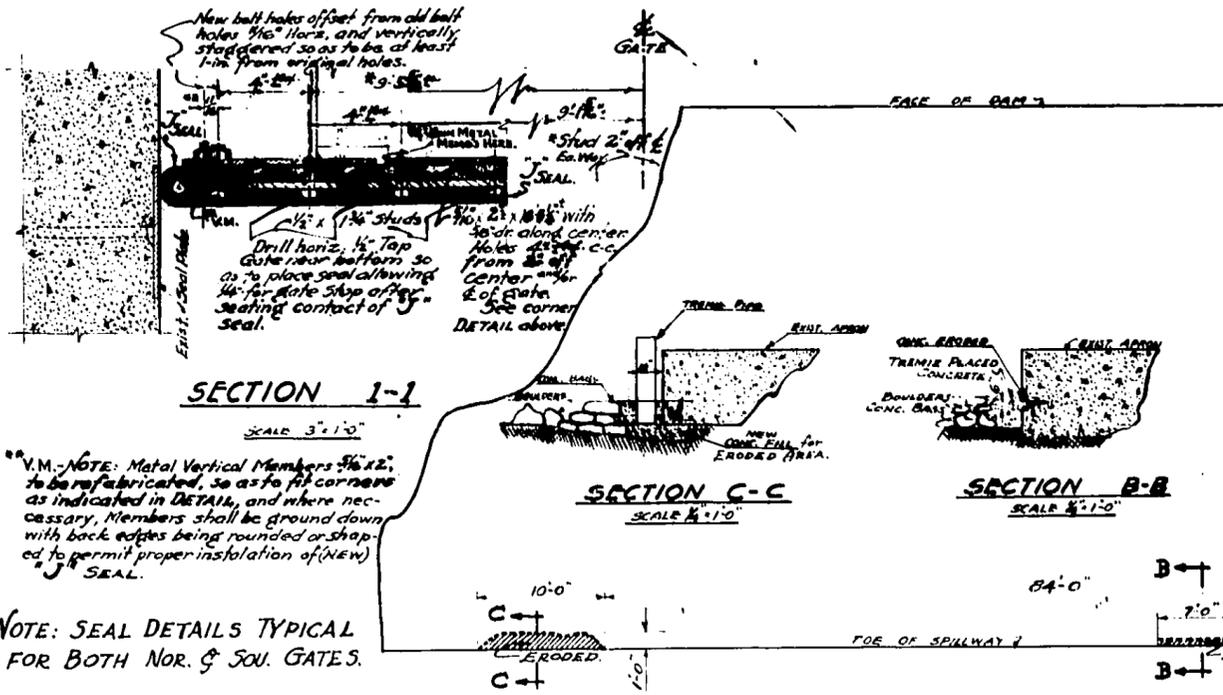
PLAN & SECTION

REVISED	CHECKED	DATE	BY	DESIGNED

ROBERT AND COMPANY  
ARCHITECTS AND ENGINEERS  
ATLANTA  
CITY OF TAMPA  
TAMPA, FLORIDA  
IN CHARGE OF R.G. HICKLIN  
DRAWN BY E.S.G. (Noted)  
CHECKED BY H.L. DAVE  
SHEET No. 4338-D-2



**ELEVATION TAINTER GATE**  
SCALE 1/2"=1'-0"



HRWTP 4-30-51  
MICROFILMED 6  
DATE 1983

**REPAIRS & ALTERATIONS ON HILLSBOROUGH RIVER DAM. EROSION FILLING AND GATE SEAL-DETAILS.**

**CITY OF TAMPA TAMPA, FLA.**

DRAWN BY P.S.J.	<b>ROBERT AND COMPANY ASSOCIATED</b> INCORPORATED ARCHITECTS AND ENGINEERS 80 POPULAR ST. N.W. ATLANTA, GEORGIA	SCALE None
TRACED BY P.S.J.		DATE 4-30-51
CHECKED BY C.S.J.		DRAWING NUMBER 5135-4
IN CHARGE OF R. JACKSON		DATE 4-30-51

NOTE: SEAL DETAILS TYPICAL FOR BOTH NOR. & SOU. GATES.

**LEGEND**

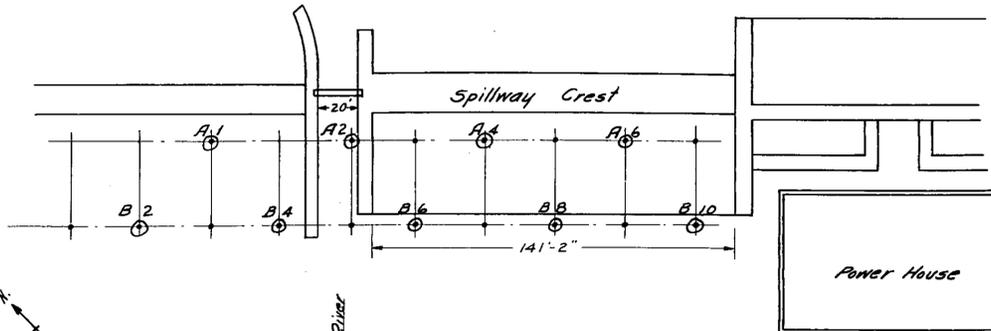
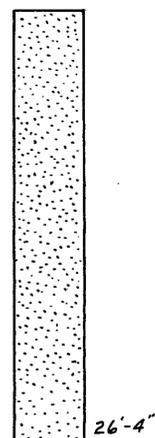
- |  |                |  |                       |
|--|----------------|--|-----------------------|
|  | Clay           |  | Concrete              |
|  | Hard Limestone |  | Sand                  |
|  | Soft Limestone |  | Extra Hard Limestone  |
|  | Flint          |  | Medium Soft Limestone |
|  | Boulders       |  |                       |

**TAMPA WATER WORKS DEPT  
TAMPA FLORIDA**

Details showing Location and Character of Materials Encountered by Test (Core) Borings Made by Tampa Electric Co. Jan. 21, 1925 At Site of their Dam on the Hillsborough River

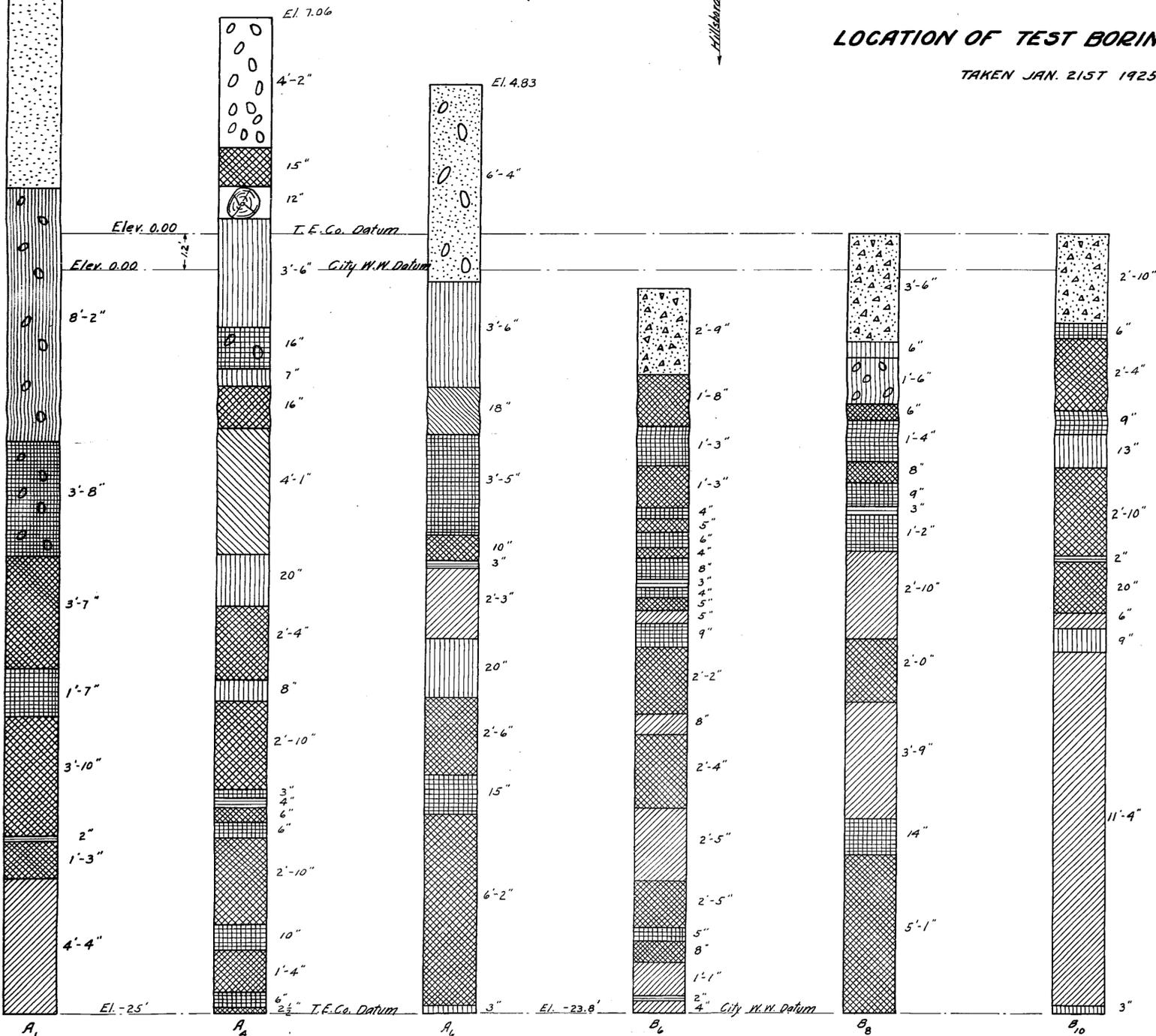
Scale:  $\frac{3}{8}'' = 1'$

J.S. Long, Supt.  
W.N. Jones, Engineer  
Dr. W.H.M.  
Tr. W.H.M.  
11-9-33



**LOCATION OF TEST BORINGS**

TAKEN JAN. 21ST 1925



FILE  
 A-2-35  
 C10-31-46  
 D14-4

**RESULTS OF  
SUBSURFACE INVESTIGATION  
HILLSBOROUGH RIVER DAM  
TAMPA, FLORIDA**

Camp, Dresser & McKee  
11 British American Boulevard  
Latham, New York 12110

January 24, 2011

Attention: Mr. Bill Friers

**RE: Report for the Subsurface Investigation  
Hillsborough River Dam  
Hillsborough County, Florida  
Our File: DES 106663**

Dear Mr. Friers:

In accordance with your request, **DRIGGERS ENGINEERING SERVICES, INC.** has performed the requested test borings and monitoring well or piezometer installations. Included herein are the results of our field studies.

### SUBSURFACE INVESTIGATION

To investigate subsurface conditions beneath the dam sill/apron, three (3) borings/cores were requested at locations depicted on the plan provided for our use. The location of the test borings and piezometer locations are illustrated on the attached Plate I. It was requested that the test borings were performed by utilizing the Standard Penetration Test (SPT) method until soils were encountered that warranted securing NX size cores. The SPT portion of each boring was conducted in general accordance with ASTM D-1586. Where securing cores was warranted, we performed 18-inch core runs using 5 feet long, NX core barrel. Test borings TB-1, TB-2 and TB-3 were advanced to requested depth of 14.5, 14.0 and 15.7 feet respectively below the top of the existing concrete apron. The sampling and testing was utilized to provide soil samples for visual classification, plus to develop Standard Penetration resistance data reflective of the strength and bearing capability of the soils penetrated. Representative samples and cores were returned to the laboratory for examination by the project undersigned.

**Sarasota**

Phone: 941.371.3949  
Fax: 941.371.8962  
sarcffice@driggers-eng.com

**Clearwater**

12220 49th Street North • Clearwater, Florida 33762  
Phone: 727.571.1313 • Fax: 727.572.4090  
clwoffice@driggers-eng.com

**Tampa**

Phone: 813.948.6027  
Fax: 813.948.7645  
tpaoffice@driggers-eng.com

The designated Unified Soil Classifications were based solely on visual examination. Should you desire to assign laboratory classification tests, some modification in Unified Soil Classification may results. The NX cores will be retained for 30 days in the event you may wish to assign compressive strength tests.

Upon completion of the test borings, the locations were properly grouted to the top of the sill/apron and finished off flush. The material utilized for grouting the boreholes consisted of a fast set/high strength grout. A set of 3x6 grout cylinders were cast to ensure requested compressive strength were reached. The grout compressive strengths are attached herein.

**PIEZOMETERS** - Three (3) piezometers were also installed at the locations depicted on the boring location plan (Plate I). We installed the piezometers in general accordance with the attached cross-sectional detail (Plate II). We utilized a watertight/airtight cap that maintains internal pressure for pressure head measurements so as to eliminate the need for a standpipe open to atmospheric pressure. The piezometer included the installation of a pressure transducer at the bottom of the piezometer with the ability to record pressure head at preselected time intervals and store the data for acquisition of the data recorded. The head pressure data from the transducers will be transmitted via cable to the catwalk on top of the dam.

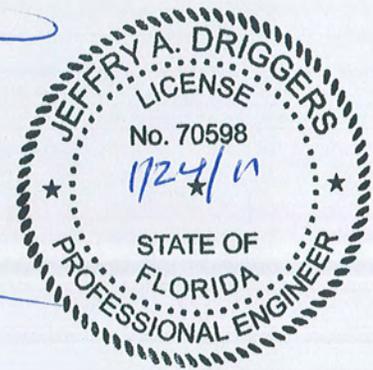
**EXISTING SAW CUT AREAS**- Pursuant to your request, we excavated debris in three (3) existing saw cut areas to determine their depth with respect to the top of the concrete apron. The approximate locations and dimensions of the saw cut areas are described on Plate I. The areas were excavated utilizing hand auger equipment and a shovel. The saw cut area were apparently filled with fine sand and debris which was most likely from years of water and sediment flowing over the dam face. The depths from the top of the apron to the concrete bottom ranged from 14 to 28 inches.

**DRIGGERS ENGINEERING SERVICES, INC.** appreciates the opportunity to assist you and we trust if you have any questions concerning our report, you will not hesitate to contact the undersigned at your convenience.

Respectfully submitted,  
**DRIGGERS ENGINEERING SERVICES, INC.**



Jeffrey A. Driggers, P.E.  
Project Engineer  
FL Registration No. 70598



F. Jaime Driggers, P.E.  
President

FL Registration No. 16989

JAD-REP\106663

Copies submitted: (3)

**APPENDIX**

**PLATE I - TEST BORING AND PIEZOMETER  
LOCATION PLAN**

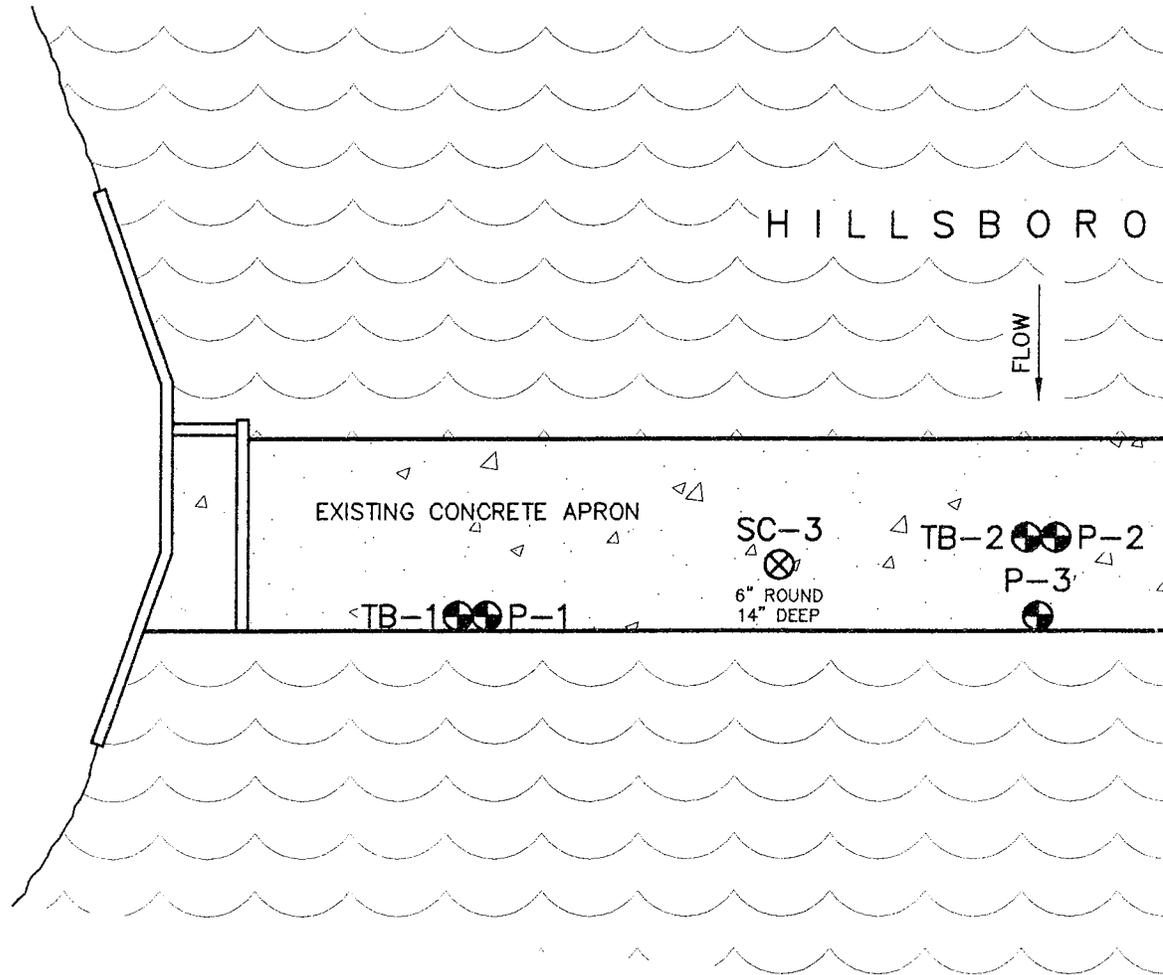
**PLATE II - PIEZOMETER INSTALLATION  
DETAILS**

**TEST BORING LOGS**

**GROUT COMPRESSION TEST RESULTS**

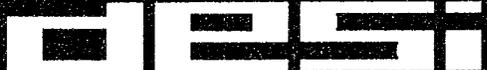
**METHOD OF TESTING**

**PLATE I - TEST BORING AND PIEZOMETER  
LOCATION PLAN**

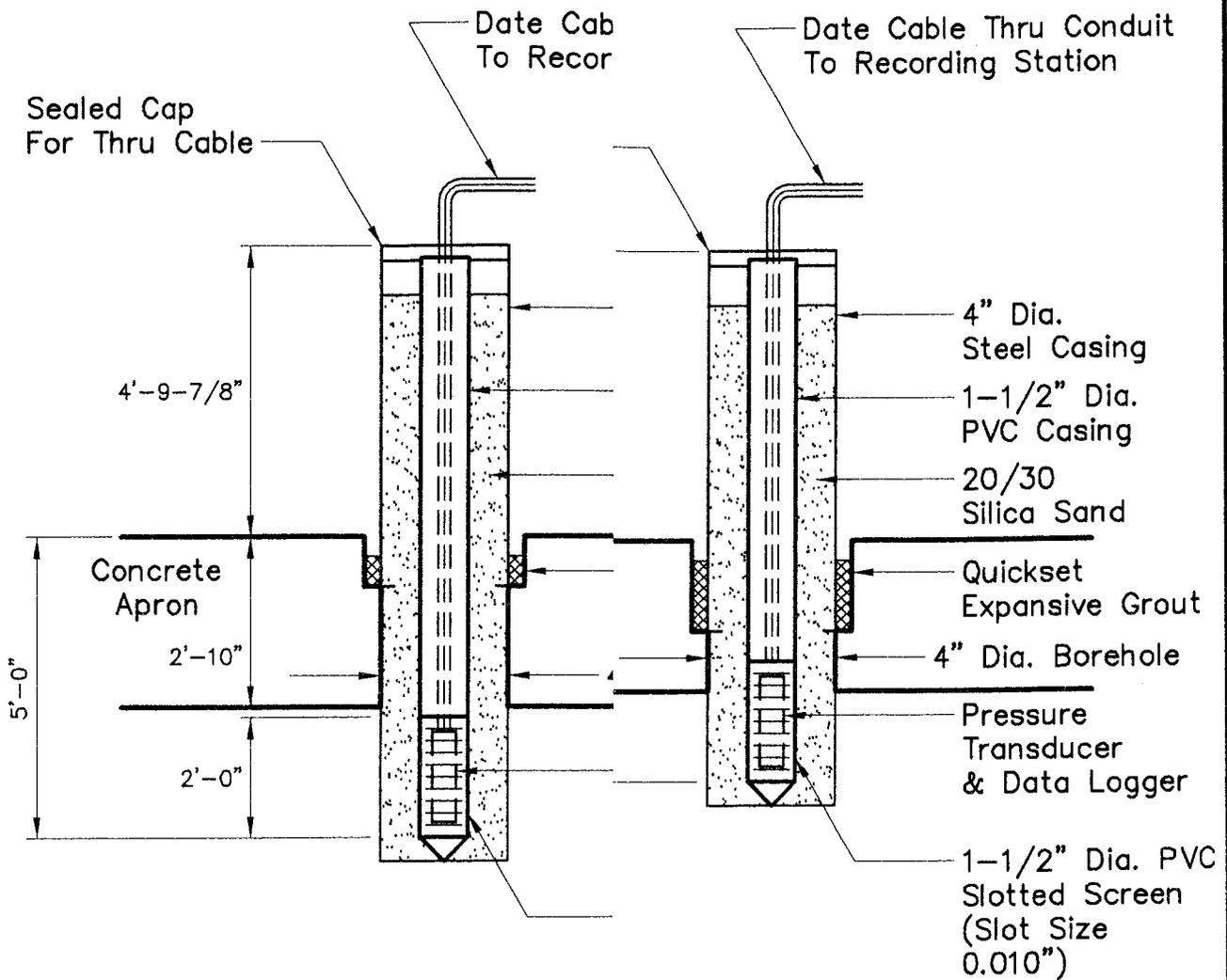


**LEGEND:**

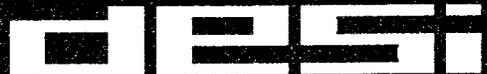
-  STANDARD PENETRATION TEST BORING LOCATION
-  13"x13" SQUARE 28" DEEP EXISTING SAW-CUT AREA IN CONCRETE APRON WITH OVERALL DIMENSIONS & DEPTH

CAD / ENGINEER	SHEET TITLE
R.D.B. / J.A.D.	<b>BORING LOCATION PLAN</b>
PREPARED BY	PROJECT NAME
 <b>DRIGGERS ENGINEERING SERVICES, INCORPORATED</b>	<b>HILLSBOROUGH RIVER DRAINAGE          HILLSBOROUGH COUNTY, FLORIDA</b>

**PLATE II - PIEZOMETER INSTALLATION  
DETAILS**



PIEZOMETER P-1 DETAIL      PIEZOMETER P-3 DETAIL

CAD / ENGINEER		DATE
R.D.B. / J.A.D.	1	1/12/11
PREPARED BY		SHEET NO.
		PLATE II
DRIGGERS ENGINEERING SERVICES, INCORPORATED		

## **TEST BORING LOGS**

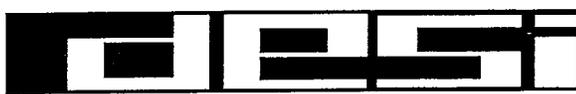
# DRIGGERS ENGINEERING SERVICES INCORPORATED

Project No. DES 106663 BORING NO. TB-1  
 Project Hillsborough River Dam, Hillsborough County, Florida  
 Location See Plate I Foreman J.R.  
 Completion                      Depth To                       
 Depth 14.5' Date 12/7/10 Water \*\* Time                      Date 12/7/10

DEPTH, FT	SYMBOL	SAMPLES	SOIL DESCRIPTION	BLOWS ON SAMPLER PER 6" OR PEN. STR.	STANDARD PENETRATION TEST BLOWS/FT. ON 2" O.D. SAMPLER-140 LB. HAMMER, 30" DROP																
					10	20	40	60	80												
0			SURF. EL: 2'-9-1/2" Concrete Apron																		
2.5			2-1/2" Void below Concrete Apron - 100% loss of circulation at depth 3.0'	3/7/11		•															
5			Very stiff green CLAY with cream colored calcareous CLAY and SILT (CH/CL/ML)  - limestone fragments at depth 6.0'	3/6/10		•															
7.5			Very stiff to hard green CLAY (CH) to (CL)	7/7/11		•															
				7/7/8		•															
10			Cream colored to gray LIMESTONE NX Core Run: 9.7' to 11.5' Recovery: 18.75" % Rec.: 87% RQD: 46%	31/50*	* 0.3' Penetration																
12.5			NX Core Run: 11.5' to 13.0' Recovery: 9.0" % Rec.: 50% RQD: 50%																		
			- trace of green CLAY at depth 13.0'																		
15			Cream colored clayey LIMESTONE with trace of green sandy CLAY Hard green sandy CLAY with trace of cream colored LIMESTONE (CL)	11/12/22			•														
			<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Run:</td> <td style="text-align: center;">Time:</td> <td style="text-align: center;">Run:</td> <td style="text-align: center;">Time:</td> </tr> <tr> <td style="text-align: center;">9.7'-10.5'</td> <td style="text-align: center;">1:49</td> <td style="text-align: center;">11.5'-12.0'</td> <td style="text-align: center;">1:14</td> </tr> <tr> <td style="text-align: center;">10.5'-11.5'</td> <td style="text-align: center;">3:27</td> <td style="text-align: center;">12.0'-13.0'</td> <td style="text-align: center;">2:54</td> </tr> </table>	Run:	Time:	Run:	Time:	9.7'-10.5'	1:49	11.5'-12.0'	1:14	10.5'-11.5'	3:27	12.0'-13.0'	2:54						
Run:	Time:	Run:	Time:																		
9.7'-10.5'	1:49	11.5'-12.0'	1:14																		
10.5'-11.5'	3:27	12.0'-13.0'	2:54																		

**Remarks** \*\* Water Table recorded at 0.3' below Top of Apron (same level as river)  
 Borehole Grouted Casing Length 5.0'





**DRIGGERS ENGINEERING SERVICES INCORPORATED**

Project No. DES 106663 **BORING NO. TB-3**  
 Project Hillsborough River Dam, Hillsborough County, Florida  
 Location See Plate I Foreman J.R.  
 Completion Depth 15.7' Date 12/8/10 Depth To Water \*\* Time \_\_\_\_\_ Date 12/8/10

DEPTH, FT	SYMBOL	SAMPLES	SOIL DESCRIPTION	BLOWS ON SAMPLER PER 6" OR PEN. STR.	STANDARD PENETRATION TEST BLOWS/FT. ON 2" O.D. SAMPLER-140 LB. HAMMER, 30" DROP				
					10	20	40	60	80
0			SURF. EL: 3'-7" Concrete Apron						
2.5									
5			Hard green CLAY and cream colored LIMESTONE (CL) - trace of green CLAY at depth 4.4' Cream colored LIMESTONE	35/50*	* 0.3' Penetration				
			Green CLAY (CH)						
			Very stiff green sandy CLAY (CH)						
7.5			Hard green cemented, sandy CLAY with seams of cream colored LIMESTONE (CL)	8/15/16					
			Hard green sandy CLAY and cream colored LIMESTONE (CL)	22/30/32					
10			Very stiff green sandy CLAY with trace of cream colored LIMESTONE (CL)	14/40/41					
			Hard green sandy CLAY and cream colored LIMESTONE (CL) - trace of cream colored LIMESTONE at depth 10.5'	9/12/17					
			Very stiff to hard green sandy CLAY (CH) - trace of cream colored LIMESTONE below depth 11.5'	13/50*	* 0.2' Penetration				
12.5			Hard green cemented, sandy CLAY with trace of cream colored LIMESTONE (CL)						
			Green CLAY (CH)						
			Gray dolomitic LIMESTONE						
			Green cemented CLAY (CL)						
15			Dense green weakly cemented, clayey Fine SAND (SC)	13/24/12					
				Run:	Time:				
				NX Core Run: 12.7' to 14.2'	12.7'-13.2'	0:48			
				Recovery: 14.0" % Rec.: 78% RQD: 0%	13.2'-13.7'	0:47			
					13.7'-14.2'	1:57			

Remarks **\*\*** Water Table recorded at 0.0' below Top of Apron  
 Borehole Grouted \_\_\_\_\_ Casing Length \_\_\_\_\_



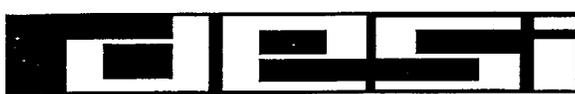
**DRIGGERS ENGINEERING SERVICES INCORPORATED**

Project No. DES 106663 **BORING NO. P-1**  
 Project Hillsborough River Dam, Hillsborough County, Florida  
 Location See Plate I Foreman J.R.  
 Completion Depth 6.5' Date 12/7/10 Depth To Water \*\* Time \_\_\_\_\_ Date 12/7/10

DEPTH, FT	SYMBOL	SAMPLES	SOIL DESCRIPTION	BLOWS ON SAMPLER PER 6" OR PEN. STR.	STANDARD PENETRATION TEST BLOWS/FT. ON 2" O.D. SAMPLER-140 LB. HAMMER, 30" DROP				
					10	20	40	60	80
0			SURF. EL: 2'-10" Concrete Apron						
2.5			- 100% loss of circulation at depth 2.8'						
5			Very stiff to stiff green CLAY with cream colored calcareous CLAY and SILT (CH/ML)	2/7/13					
			Cream colored clayey LIMESTONE with some green CLAY	5/6/8					
			Very stiff green CLAY with cream colored calcareous CLAY and SILT (CH/ML)						
7.5			Note: Set Piezometer at depth 5.0'. (See Piezometer Detail Sheet)						
10									
12.5									
15									

Remarks **\*\* Water Table recorded at 0.3' below Top of Apron (same level as river)**  
 Borehole Grouted \_\_\_\_\_ Casing Length \_\_\_\_\_





**DRIGGERS ENGINEERING SERVICES INCORPORATED**

Project No. DES 106663 **BORING NO. P-3**  
 Project Hillsborough River Dam, Hillsborough County, Florida  
 Location See Plate I Foreman J.R.  
 Completion 5.5' Date 12/7/10 Depth To \*\* Time          Date 12/7/10  
 Depth          Date          Water                           

DEPTH, FT	SYMBOL	SAMPLES	SOIL DESCRIPTION	BLOWS ON SAMPLER PER 6" OR PEN. STR.	STANDARD PENETRATION TEST BLOWS/FT. ON 2" O.D. SAMPLER-140 LB. HAMMER, 30" DROP					
					10	20	40	60	80	
0			SURF. EL: 2'-6" Concrete Apron							
2.5			6" Gravel or Broken Concrete							
			Very loose green silty, clayey Fine SAND (SM-SC)							
5				1/1/2	•					
			Note: Set Piezometer at depth 4.0'. (See Piezometer Detail Sheet)							
7.5										
10										
12.5										
15										

Remarks **\*\*** Water Table recorded at 0.2' below Top of Apron in casing  
Borehole Grouted Casing Length

## **GROUT COMPRESSION TEST RESULTS**

## CONCRETE TEST REPORT

Date Reported

Client CDM File No. 106663 1/14/11  
 Project Hillsborough River Dam Report No. \_\_\_\_\_  
 Location of Placement Sampled Piezometer Locations  
 Date Cylinders Received \_\_\_\_\_ Condition of Cyls When Recd. GOOD

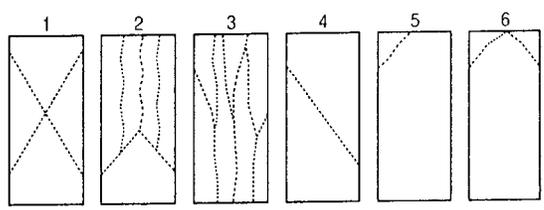
## COMPRESSION TEST RESULTS

Set No.	No. Cyls.	Size (In.)	Failure Load (Pounds)	Compressive Strength (p.s.i.)	Age Days	Date Tested	Type of Break	Tested By	Area In Square Inches
	A	3	35700	4990	10	12/17/10	3	RP	7.159
	B	x	43665	6200	38	01/14/11	2	RB	7.045
	C	6	42315	5990	38	01/14/11	3	RB	7.068

**NOTES:**

1. Unless Otherwise Specified, hold cylinders will be discarded 42 days after date molded.
2. Hold Cyls. Will Be Billed As if Tested.
3. Field information furnished to Driggers Engineering Services Incorporated by client when cylinders molded by other than Driggers Engineering Personnel.

**TYPES OF BREAKS**



## FIELD AND INSPECTION INFORMATION

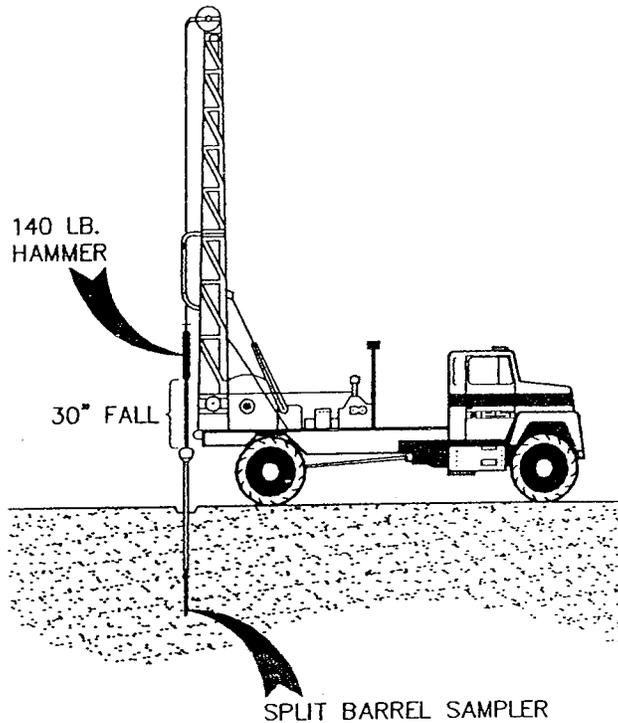
FIELD RESULTS	PRODUCER DATA	ADDITION OF WATER	APPLICABLE A.S.T.M. PROCEDURES	TECHNICIAN TIME
Date Molded <u>12/07/10</u>	Supplier _____	Gallons Added Before Test _____	Sampling <u>C-172</u>	Requested by _____
Cyls. Cast By <u>Jeff Driggers</u>	Truck # _____	Estimated Yards Remaining _____	Slump <u>C-143</u>	Time Requested _____
Design Strength <u>5000</u> PS.I.	Invoice # _____	Authorized By _____	Air Content <u>C-231</u>	Time Arrived _____
28 Days	Mix # _____	Gallons Added After Test _____	Curing <u>C-31</u>	Time Departed _____
Slump _____	Time Batched _____	Estimated Yards Remaining _____	Capping <u>C-1231/C-617</u>	Time (Portal to Portal) _____
Conc. Temp _____ °	Time Arrived _____	Authorized By _____	Compression <u>C-39</u>	Cylinder Pick Up Time _____
Air Temp _____ °	Time Sampled <u>10:30</u>		Conc. Temp <u>C-1064</u>	Total Tech. Time _____
Entrained Air Content _____ %	TOTAL YARDS Batched _____			
Field Plastic Wt. _____ P.C.F.				
Dry Weight _____ P.C.F.				

Copies: \_\_\_\_\_

Remarks: \_\_\_\_\_

## **METHOD OF TESTING**

# STANDARD PENETRATION TEST WITH AUTOMATIC HAMMER AND SOIL CLASSIFICATION

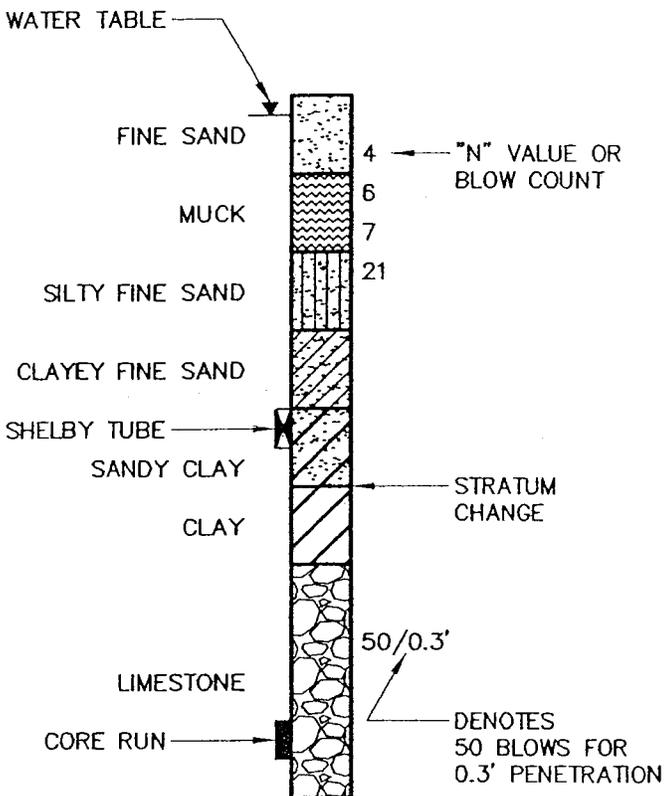


## STANDARD PENETRATION TEST (ASTM D-1586)

In the Standard Penetration Test borings, a rotary drilling rig is used to advance the borehole to the desired test depth. A viscous drilling fluid is circulated through the drill rods and bit to stabilize the borehole and to assist in removal of soil and rock cuttings up and out of the borehole.

Upon reaching the desired test depth, the 2 inch O.D. split-barrel sampler or "split-spoon", as it is sometimes called, is attached to an N-size drill rod and lowered to the bottom of the borehole. A 140 pound automatic hammer, attached to the drill string at the ground surface, is then used to drive the sampler into the formation. The hammer is successively raised and dropped for a distance of 30 inches using an automated lifting mechanism. The number of blows is recorded for each 6 inch interval of penetration or until virtual refusal is achieved. In the above manner, the samples are ideally advanced a total of 18 inches. The sum of the blows required to effect the final 12 inches of penetration is called the blowcount, penetration resistance or "N" value of the particular material at the sample depth.

After penetration, the rods and sampler are retracted to the ground surface where the core sample is removed, sealed in a glass jar and transported to the laboratory for verification of field classification and storage.

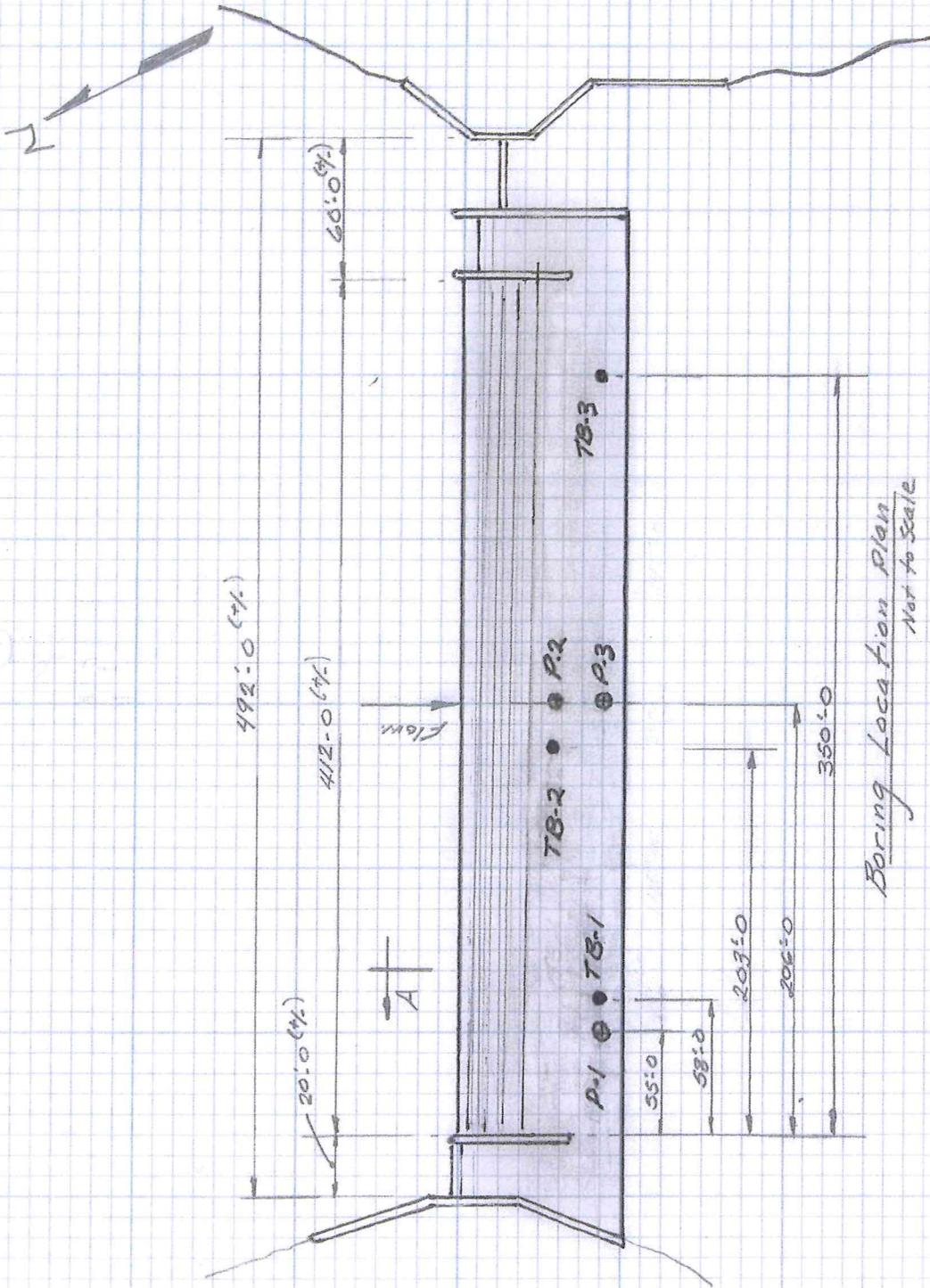


## SOIL SYMBOLS AND CLASSIFICATION

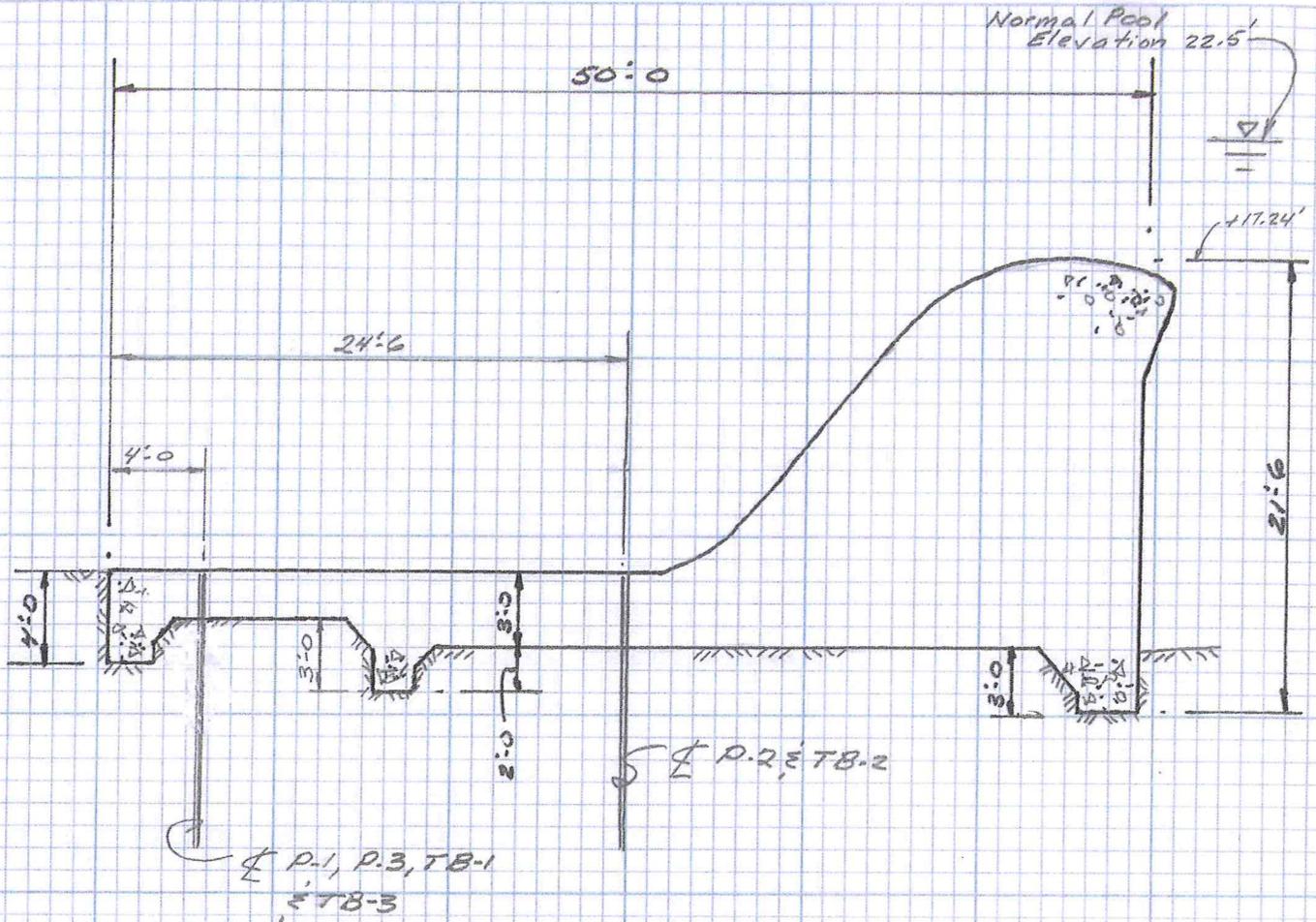
Soil and rock samples secured in the field sampling operation were visually classified as to texture, color and consistency. Soil classifications are presented descriptively and symbolically for ease of interpretation. The stratum identification lines represent the approximate boundary between soil types. In many cases, this transition may be gradual.

Consistency of the soil as to relative density or undrained shear strength, unless otherwise noted, is based upon Standard Penetration resistance values of "N" values and industry-accepted standards. "N" values, or blowcounts, are presented in both tabular and graphical form on each respective boring log at each sample interval. The graphical plot of blowcount versus depth is for illustration purposes only and does not warrant continuity in soil consistency or linear variation between sample intervals.

The borings represent subsurface conditions at respective boring locations and sample intervals only. Variations in subsurface conditions may occur between boring locations. Groundwater depths shown represent water depths at the dates and time shown only. The absence of water table information does not necessarily imply that groundwater was not encountered.



SK-1



Section A-A  
Not to scale.

SK-2.

CONTRACT 17-C-00042; Hillsborough River Dam MFL Low Flow Control Gate - Pre-Bid Mtg. 7/11/2017; 2:30p.m.

E-Mail to Register as a Plan Holder and E-Mail All Questions to; ContractAdministration@tampagov.net

Sign-In Sheet  Please Print

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