



# CITY OF TAMPA

Bob Buckhorn, Mayor

CONTRACT ADMINISTRATION DEPARTMENT

Michael W. Chucran, Director

## ADDENDUM NO. 2

**DATE: December 20, 2016**

17-C-00006; West River Interceptor Cleaning

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: Replace Proposal page P-2 with the attached page P-2R.

Item 2: Replace Specific Provision SP-134 with the following:

SP – 134

The cleaning method to be employed shall be a combination of hydraulic high volume water and solids separation closed loop system or a high velocity jetter and vactor truck system. Refer to section W-70 Large Pipe Diameter cleaning.

Item 3: Add to the Specific Provisions, the following:

SP –136 Portable Water Meter Policy

Contractor shall abide by all portable water meter policies outlined in the attachment. The Contractor will be responsible for submitting the portable meter application and the deposit to the Water Department.

Item 4: Insert, after page SP-9, the attached Portable Meter Policy.

Item 5: Insert, after the Portable Meter Policy, the attached Portable Meter Application.

Item 6: Replace Workmanship and Materials Section 70 with the attached Section 70.

Item 7: Replace plan sheet 2 with the attached plan sheet 2.

Item 8: Insert the attached plan sheets M3, G3, G4 and 4.

Item 9: Attached for reference is 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 [ContractAdministration@tampagov.net](mailto:ContractAdministration@tampagov.net).

*Jim Greiner*

Jim Greiner, P.E., Contract Management Supervisor

Item No.	Description	Unit	Approx. Quantity	Unit Price in Words	Unit Price	Total Computed Price
100	Contingency	LS	1	One Hundred Thousand and No Cents	\$ 100,000.00	\$ 100,000.00
0601.60	Cleaning and Removal of Debris for 60" Diameter Pipe - Phase I	LF	6,800		\$	\$
0601.20	Cleaning and Removal of Debris for 20" Diameter Pipe - Phase I	LF	370		\$	\$
0601.36	Cleaning and Removal of Debris for 36" Diameter Pipe - Phase I	LF	740		\$	\$
0601.60	Cleaning and Removal of Debris for 60" Diameter Pipe - Phase II	LF	7,900		\$	\$
0601.48	Cleaning and Removal of Debris for 48" Diameter Pipe - Phase II	LF	350		\$	\$
0601.WW	Cleaning and Removal of Debris for Kraus PS Wet Well - Phase II	LS	1			
0650	Disposal of Debris	TON	3,500		\$	\$
9600	Sewer Line Sonar and CCTV Inspection	LF	16,160		\$	\$
9999	Maintenance of Traffic	LS	1		\$	\$
					TOTAL BID	\$



City of Tampa  
Water Department  
306 E. Jackson St., 5E  
Tampa, FL 33602  
Phone: (813) 274-8121

## PORTABLE METER POLICY

Water service from a fire hydrant is provided to meet needs of a temporary nature only, such as construction or other similar need, as approved by the Director or his designee. The initial term of service is six (6) months, with extensions of three (3) months. Extensions must be requested in writing before the expiration of the current term.

Applicant must submit a written application and pay a \$700 deposit for each portable meter. Applications are approved subject to the following conditions:

1. Only Water Department personnel are authorized to install, move, or remove portable meters from fire hydrants. It is against the law for anyone other than authorized personnel to use unmetered water from a city fire hydrant.
2. The customer of record is liable for any damages to or theft of Water Department property and equipment, and, as such, agrees to pay all charges in connection with repairing or replacing Water Department property or equipment.
3. The City is not responsible for accident or injury caused by unauthorized placement of a portable meter or other appurtenances.
4. Portable meters may be used for service from hydrants only. No installations will be made on trucks. No Private Meters may be installed on city hydrants.
5. For portable meters to be used to fill tanks, wet wells or any high hazard area, as determined by the Water Department, the following is required:
  - a. An approved backflow prevention device must be installed at applicant's expense. Installation is subject to Water Department inspection and approval.
  - b. The device shall be tested at the time of installation by a certified backflow prevention device technician. Water may not be drawn from the installation until the Water Department has received formal written notification that the test indicates the devices is operating properly.
6. All requests for installations, moves and removals of portable meters must be e-mailed to [PortableHydrantMeter@TampaGov.net](mailto:PortableHydrantMeter@TampaGov.net). Installation, move and removal requests are scheduled within two (2) business days. When removal of a portable meter is requested, the customer will receive a confirmation number. Charges for water consumption and meter rental remain in effect until the written request for removal is received and a confirmation number is issued.
7. A portable meter will be removed without notice when:
  - a. the meter is used, for any reason, as a permanent meter to avoid payment of fees for permanent service, or
  - b. no water consumption is registered for a period of three (3) consecutive months, or
  - c. the account is not paid within 30 days of the billing date appearing on the statement. The deposit on the account will be applied against the balance due.
8. A deposit refund can be processed when:
  - a. a written removal request is on file and the meter has been removed, and
  - b. a written deposit refund request has been received by the Water Department, and
  - c. payment in full has been received.

<u>Portable Meter Service Fees</u>		<u>Consumption Charges</u>	
Deposit	\$700.00	Per One Hundred Cubic Feet (CCF)	\$ 1.20
Installation	60.00	Minimum Monthly Charge (less than 10 CCF)	10.00
Relocation	60.00		
Meter rental, per day	2.00		

*Any inquiry regarding portable meters, including relocations and pick-ups, please contact us at*

***PortableHydrantMeter@TampaGov.net***



City of Tampa  
Water Department  
306 E. Jackson St, 5E  
Tampa, FL 33602  
Phone: (813) 274-8121

### Portable Meter Application

Company Name:

Federal ID #:

Corporate Billing Address (if applicable):

Local Billing Address:

Office Contact:

Phone:

Field Contact:

Phone:

Purpose of Meter:

Estimated Time of Use:

Date Meter Required:

Location of Hydrant:

I have received a copy of the Tampa Water Department Portable Meter Policy and understand provisions therein.

Signature:

Date:

#### Account Information

Deposit Amount: \$700

Check Number:

Receipt Number:

Please return your completed application and check to 306 E. Jackson Street, 5E

*Any inquiry regarding portable meters including relocations and pick ups, please contact us at*

***PortableHydrantMeter@Tampagov.net***

## SECTION 70 – LARGE PIPE DIAMETER CLEANING

### W-70.01 Intent

The intent of large pipe diameter cleaning is to remove foreign materials from the pipelines and restore the sewer line to a minimum of 95% of the original capacity of the pipe. Additionally, the pipelines shall be adequately clean to provide unobstructed view of the entire pipe by a sonar/closed-circuit television inspection to discern all pipe defects.

It is recognized that there are some conditions such as broken pipe and major blockages that prevent cleaning from being accomplished or where additional damage would result if cleaning were attempted or continued. Should such conditions be encountered, the Contractor will not be required to clean those specific sections of the sewer. Low spots, sags, bellies in the pipeline are conditions that do not exempt the Contractor from meeting the requirements of the specifications.

### W-70.02 Cleaning Equipment

For large pipe diameter cleaning, a combination of hydraulic high volume water and solids separation system closed loop shall be used. Flow rate shall be a minimum of 250 GPM at 2,000 PSI to move solids to the downstream manhole in high flow conditions. The separation system will dewater solids to 95% (passing a paint filter test) and transfer them to a dump truck for transport to the Howard F. Curren AWT Plant. All sewers shall be cleaned in operating conditions. The unit shall be capable of 24 hour operation and the unit shall not leave the manhole until a section is fully cleaned.

When possible, the flow of sewage in the sewer shall be utilized to operate the pump. If hydrants are required, the location and the layout of supply hoses from the hydrant are to be described in the project submittals. In addition, an estimate of water to be consumed (Total Gallons) per day from the hydrant to complete the project shall be provided. The Contractor shall be fully responsible for obtaining the appropriate permits, a certified hydrant meter and backflow preventer from the City of Tampa Water Department. Water usage fees will be the Contractor responsibility. Water shall be conserved and not used unnecessarily. No fire hydrant shall be obstructed in case of a fire in the area served by the hydrant. Special effort should be taken so that supply hoses will not cross lanes of traffic.

The use of a high velocity jetter and vector truck system will be considered an approved alternative cleaning method. The contractor shall provide adequate quantity and size vector trucks necessary to remove the material and debris from the 60-inch pipelines during live flow and shall use all measures needed to capture and prevent debris from flowing into the downstream system. . Either cleaning method selected shall be capable of cleaning a minimum of 1,000 linear feet of pipe per each set up. This is required to eliminate the need to set up in heavy traffic areas, schools or parks described within the contract documents.

### W-70.03 Cleaning Precautions

During sewer cleaning operations, satisfactory precautions shall be taken in the use of cleaning equipment. Noise and odors emissions shall be eliminated or minimized. No bypassing of sewer flows will be necessary. Proper capture of debris at the extraction point shall be performed to prevent debris collecting downstream and causing a blockage. If during a rain event, elevated sewer

levels are experienced, cleaning shall be suspended.

#### W-70.04 Sewer Cleaning

The designated sewer manhole sections shall be cleaned using a combination of hydraulic high volume water and solids separation closed loop system. Bypass of sewer flow will not be allowed to be performed at any time. The equipment shall be capable of removing dirt, grease, rocks, sand, and other materials and obstructions from the sewer lines and manholes.

#### W-70.05 Contractor Qualifications

The Contractor shall have successfully completed 10,000 LF of 60-inch diameter or larger wastewater pipeline cleaning during live flow. The contractor shall submit a resume and list of all projects of similar complexity with same type of equipment, which have been successfully completed by contractor in the past.

The Contractor shall provide firm's experience and at least three (3) references for similar projects firm has successfully performed within the last two years. Include the following information:

- a. Each project or contract name.
- b. Name of contracting company and government agency.
- c. Contact person's name, position, and telephone number.
- d. Dates of projects.
- e. Status or comments

All personnel, including sub-contractors, proposed to participate in this project shall be identified and their experience highlighted. The proposed project manager who will interact with the City staff shall be identified.

#### W-70.06 Material Removal

All sludge, dirt, sand, rocks, grease, and other solid or semisolid material resulting from the cleaning operation shall be removed at the downstream manhole of the section being cleaned. Passing material from manhole section to manhole section, which could cause line stoppages, accumulations of sand in wet wells, or damage pumping equipment, shall not be permitted.

#### W-70.07 Disposal of Materials

All solids resulting from the cleaning operations shall be removed from the site and disposed of at a site designated by the Engineer. All materials shall be removed from the site no less often than at the end of each workday. Under NO circumstances will the Contractor be allowed to accumulate debris, etc., on the site of work beyond the stated time, except in totally enclosed containers and as approved by the Engineer.

Contractor shall keep his haul route and work area(s) neat, clean, and reasonably free of odor, and shall bear all responsibility for the cleanup of any spill.

W-70.08 Final Acceptance

Acceptance of sewer line cleaning shall be made upon the successful completion of the sonar/television inspection and shall be to the satisfaction of the Engineer. If sonar/CCTV inspection shows the cleaning to be unsatisfactory, the Contractor shall be required to re-clean and re-inspect the sewer line at no additional cost to the City until the cleaning is shown to be satisfactory.

\* \* \*

GENERAL NOTES

1. THE SCOPE OF THIS PROJECT IS TO CLEAN THE WEST RIVER INTERCEPTOR FROM THE PERRY SIPHON TO KRAUSE PUMP STATION. THE CLEANING WILL INCLUDE APPROXIMATELY 15,000 LINEAR FEET OF 60-INCH DIAMETER GRAVITY PIPE, AND 4 HILLSBOROUGH RIVER CROSSINGS (INVERTED SIPHONS) WHICH INCLUDES, 400 LINEAR FEET OF 48-INCH DIAMETER PIPE, 800 LINEAR FEET OF 36-INCH DIAMETER PIPE AND 400 LINEAR FEET OF 20-INCH DIAMETER PIPE. THE CLEANING SHALL ALSO INCLUDE THE WET WELL AT THE KRAUSE PUMP STATION.
2. CLEANING SHALL CONSIST OF REMOVING ALL FOREIGN MATERIAL FROM THE WASTEWATER PIPE LINES TO A MINIMUM OF 95% OF ITS ORIGINAL CARRYING CAPACITY. CLEANING METHOD SHALL SUCCESSFULLY REMOVE DIRT, GREASE, ROCKS, SAND AND OTHER MATERIALS FROM THE PIPE AND MANHOLES. THE CONTRACTOR MUST PROVIDE A MEANS OF CAPTURING AND DISPOSING OF THE REMOVED DEBRIS.
3. DUE TO THE HIGH VOLUME OF FLOW IN THE INTERCEPTOR, IT IS THE CITY'S INTENT THAT CLEANING AND SONAR/CCTV INSPECTION WILL BE COMPLETED WITHOUT BYPASS PUMPING. WORK DURING DRY WEATHER, LOW FLOW PERIODS MAY BE REQUIRED. FLOW AT THE CITY PUMP STATIONS MAY BE REDUCED DURING DRY WEATHER, LOW FLOW PERIODS, IF NEEDED. HOWEVER, TOTAL PUMP STATION SHUTDOWNS WILL NOT OCCUR. ALL WORK SHALL BE COORDINATED AND SCHEDULED IN ADVANCED WITH CITY PERSONNEL. THE PROPOSED CLEANING METHOD SHALL PREVENT DEBRIS FROM FLOWING DOWNSTREAM.
4. A DETAILED WORK PLAN SHALL BE SUBMITTED AND APPROVED BY THE ENGINEER.
5. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR OBTAINING THE NECESSARY RIGHT-OF WAY AND ROAD CLOSURE PERMITS, AS APPLICABLE, FROM THE APPROPRIATE GOVERNMENT AGENCIES HAVING JURISDICTION OVER THE SPECIFIC ROADWAYS.
6. IN ORDER TO OBTAIN ROADWAY CLOSURE OR RIGHT-OF-WAY PERMITS, AT MINIMUM, THE CONTRACTOR MUST SUBMIT DETAILED MAINTENANCE OF TRAFFIC (MOT) PLANS ALONG WITH APPLICATIONS TO THE APPROPRIATE AGENCY. THE MOT(S) SHALL CONFORM TO THE APPLICABLE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) INDEX DRAWING (MOST CURRENT EDITION). THE GOVERNING AGENCIES MAY REQUIRE ADDITIONAL INFORMATION AND DICTATE SPECIFIC WORK TIMES DURING NON-PEAK TRAFFIC HOURS. ALL FEES ASSOCIATED WITH THE PERMITS WILL BE PAID BY THE CITY USING THE CONTINGENCY FUNDS.
7. DURING THE MOT, CONTRACTOR MUST MAINTAIN ACCESS TO ALL DRIVEWAYS FOR THE DURATION OF THE PROJECT.
8. CONTRACTOR SHALL COORDINATE WITH UNIVERSITY OF TAMPA, TAMPA PREPARATORY SCHOOL, STEWARD MIDDLE MAGNET SCHOOL AND CITY PARKS DEPARTMENT PERSONNEL TO ACCESS AND CLOSE ANY ROADWAY INSIDE THE PROPERTY, AS APPLICABLE.
9. CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES TO ENSURE THE SAFETY OF EMPLOYEES AND THE PUBLIC.
10. THE CONSTRUCTION SITE SHALL BE MAINTAINED IN AS NEAT AND ORDERLY CONDITION AS POSSIBLE DURING CLEANING OPERATIONS.
11. CONTRACTOR SHALL RESTORE ALL LANDSCAPING, SODDING AND EXISTING STRUCTURES THAT MAY HAVE BEEN DAMAGED DURING CLEANING OPERATIONS TO ITS ORIGINAL CONDITION OR BETTER AT NO ADDITIONAL COST TO THE CITY.
12. ALL DEBRIS MATERIAL SHALL BE TEMPORARILY STORED AT THE CITY OF TAMPA - HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT LOCATED AT 2700 MARITIME BOULEVARD, TAMPA, FL 33605. TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP) SHALL BE PERFORMED BY THE CONTRACTOR BEFORE HAULING THE MATERIAL TO THE LANDFILL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOADING, HAULING AND REMOVING ALL DEBRIS MATERIAL TO AN APPROVED OFFSITE DISPOSAL FACILITY WITHIN 30 DAYS OF COMPLETION OF THE CLEANING OPERATION.
13. CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH WASTEWATER TREATMENT PLANT PERSONNEL AND PUMPING STATION OPERATIONS.
14. OSHA STANDARD EQUIPMENT SUCH AS SAFETY HARNESSSES, GAS MONITORS, LOWER EXPLOSIVE LIMIT (LEL) DETECTORS, BREATHING APPARATUS, ETC. SHALL BE UTILIZED WHERE THE WORK DICTATES THEIR USE.
15. CONTRACTOR SHALL PERFORM POST-CLEANING SONAR/CLOSED CIRCUIT TELEVISION (CCTV) INSPECTION OF ALL PIPELINES TO CONFIRM AT LEAST 95% AT ANY GIVEN DIAMETER OF THE PIPELINE HAS BEEN RESTORED. THE INSPECTION SHALL ALSO INCLUDE A CONDITION ASSESSMENT FOLLOWING PACP DEFECT CODING.
16. RIVERWALK ACCESS ADJACENT TO THE KRAUSE PUMP STATION, SHALL REMAIN OPEN AT ALL TIMES. THE MANHOLE/STRUCTURE BETWEEN THE RIVERWALK AND THE KRAUSE PUMP STATION SHALL BE ACCESSED FROM THE KRAUSE PUMP STATION SITE.
17. THE CONTRACTOR SHALL HAVE ACCESS TO THE CITY OWNED KRAUSE PUMP STATION SITE. THE CONTRACTOR SHALL ALLOW CITY PERSONNEL ACCESS TO THE PUMP STATION FOR ROUTINE MAINTENANCE AT ALL TIMES DURING CONSTRUCTION.

INDEX	
SHEET #	DESCRIPTION
1	COVER
2	GENERAL NOTES AND INDEX
3	PROJECT LOCATION MAP - PHASE I
4	PROJECT LOCATION MAP - PHASE II
5 - 73	AS-BUILT DRAWINGS (IN NUMERICAL ORDER)

AS-BUILT DRAWINGS ARE BEING PROVIDED FOR INFORMATIONAL PURPOSES ONLY AND ARE NOT INTENDED TO SHOW ADDITIONAL WORK FOR THIS CONTRACT. THE CITY DOES NOT GUARANTEE THE ACCURACY OF THE AS-BUILT DRAWINGS.

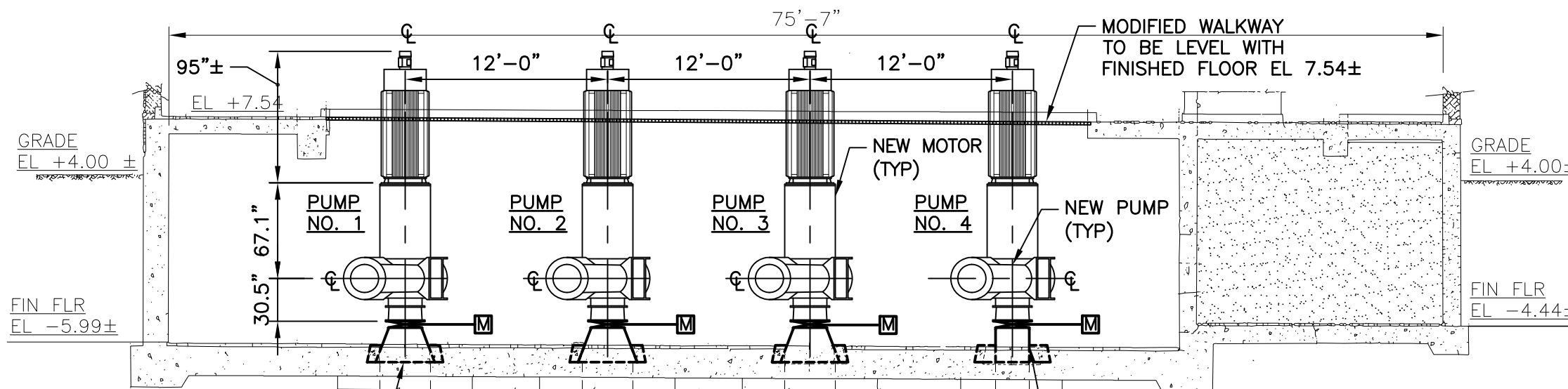
User: ss8k Drawing Name: K:\wastewater projects\west river 60-inch interceptor cleaning\Drafting\DWG\west river interceptor cleaning.dwg Layout- Dec 20, 2016 - 9:21am CTB - WM.CTB

JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	No.	DATE	REVISIONS	DES: KJG	<b>CITY of TAMPA</b> WASTEWATER DEPARTMENT	WEST RIVER INTERCEPTOR CLEANING	SHEET <b>2</b>
	3			DRN: MRL			
	2			CKD:			
	1	12/16/16	REVISIONS TO GENERAL NOTES - ADDENDUM #2	DATE:		GENERAL NOTES AND INDEX	



NOTES:

1. REUSE EXISTING WALL PENETRATION. SEAL WALL PENETRATION WITH TWO NEW ROWS OF LINK-SEAL MODULAR SEAL TYPE "C" AS MANUFACTURER BY PIPELINE SEAL AND INSULATOR, INC OR APPROVED EQUAL.
2. 20"x24" CUSTOM FABRICATED STEEL INCREASER. SEE DETAIL ON SHEET M-1
3. \*CL TO BE ADJUSTED BASED ON EXISTING WALL PENETRATIONS.
4. PE X PE DIP SPOOL PIECE TO BE CUT TO SUIT IN FIELD. LENGTH TO BE DETERMINED PER ACTUAL LAY LENGTH OF OTHER COMPONENTS SHOWN. CONNECT THE SPOOL PIECE WITH THE KNIFE GATE VALVE BY USING A RESTRAINED FLANGE ADAPTER, MEGA FLANGE AS MANUFACTURED BY EBAA IRON INC. OR APPROVED EQUAL.
5. REPLACE EXISTING SUMP PUMP COVER WITH 1/2" THICK CHECKERED PLATE. SEE SHT S-33.
6. PROVIDE NEW STAINLESS STEEL CONNECTION HARDWARE FOR REDUCER TO SUCTION PIPE ASSEMBLY.
7. COAT A MINIMUM OF 6-INCHES OF OVERLAP ON THE T-LOK LINED INFLUENT CHANNEL.
8. PROVIDE SUBMERSIBLE, SINGLE SEAL, FLOOR MOUNTED, 1/2 HP WASTEWATER SUMP PUMP MODEL NO. 1411, AS MANUFACTURED BY WEIL PUMP COMPANY OR APPROVED EQUAL.

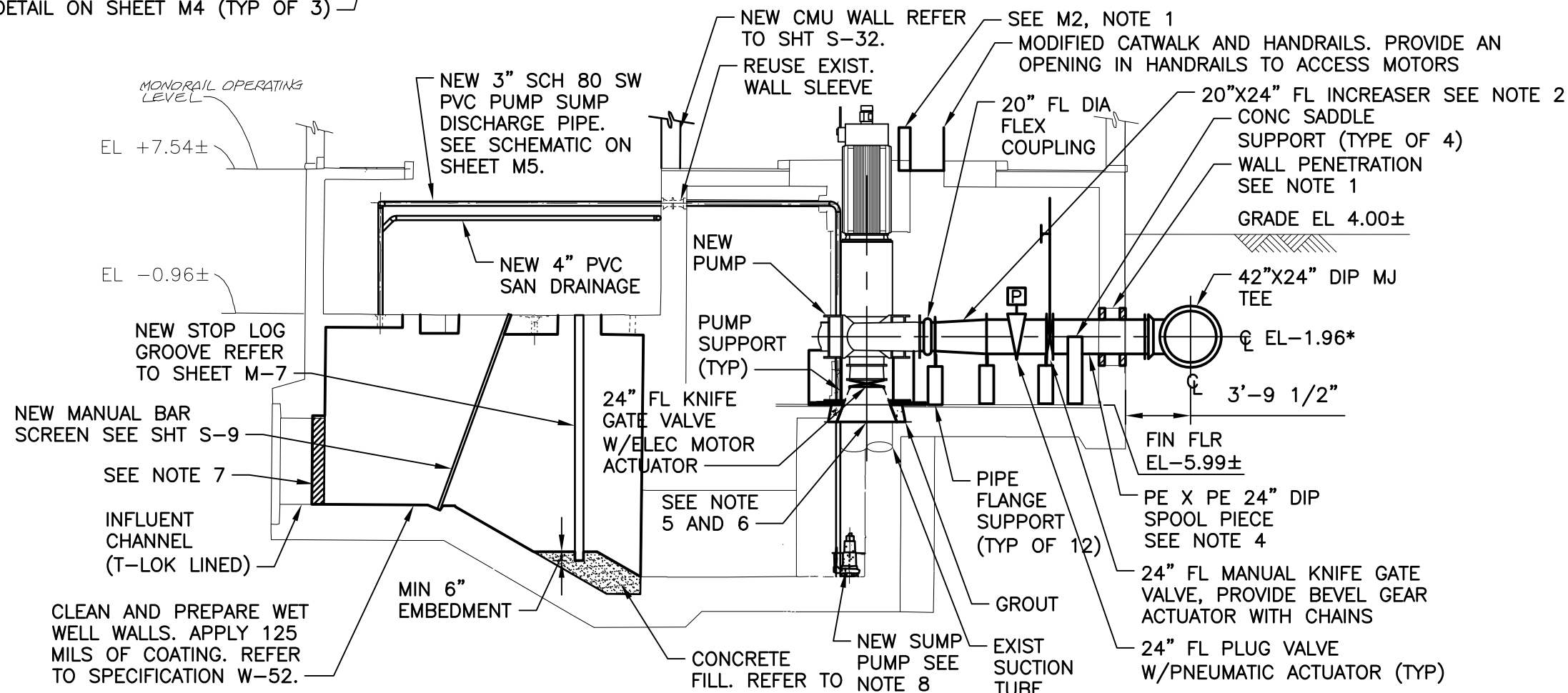


SECTION 1/M1

SCALE: 1/8" = 1'-0"

INSTALL NEW CUSTOM FLG X SPECIAL FLANGE SPOOL SUCTION TUBE INCREASER FOR PUMP. GROUT INCREASER IN PLACE. SEE DETAIL ON SHEET M4 (TYP OF 3)

INSTALL NEW CUSTOM 24" FLG X SPECIAL FLG SPOOL PIECE SUCTION TUBE FOR PUMP NO. 4. GROUT TUBE IN PLACE. SEE DETAILS ON SHT M4.



SECTION 2/M1

SCALE: 1/8" = 1'-0"

CLEAN AND PREPARE WET WELL WALLS. APPLY 125 MILS OF COATING. REFER TO SPECIFICATION W-52.

**GREELEY AND HANSEN**  
 1715 N. WESTSHORE BLVD., STE. 464  
 TAMPA, FLORIDA 33607  
 CERTIFICATE OF AUTHORIZATION NO. 37  
 P.E. NAME: FREDDY J. BETANCOURT P.E. NO. 68072  
 P.E. NAME: \_\_\_\_\_  
 DATE: \_\_\_\_\_

**EDT** Engineering Design Technologies Corp.  
 P.O. Box 152403  
 Tampa, FL 33684-2403  
 813.289.8080  
 813.282.9184 FAX  
 engineering@edt1.com  
 Certificate of Authorization Number: 4795

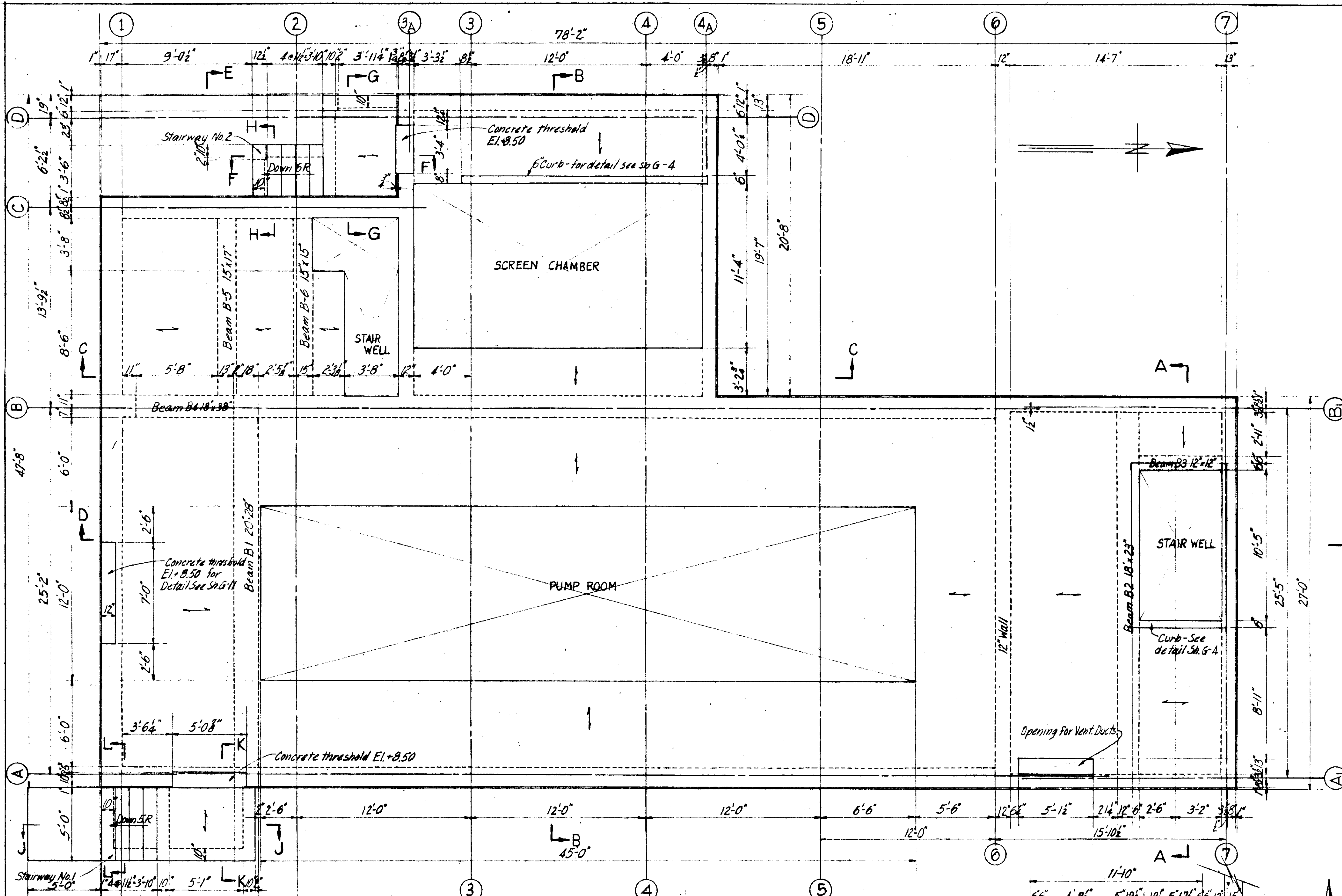
CITY of TAMPA  
 WASTEWATER DEPARTMENT

KRAUSE PS REHABILITATION  
 SECTIONS AND DETAILS

NO.	DATE	REVISIONS

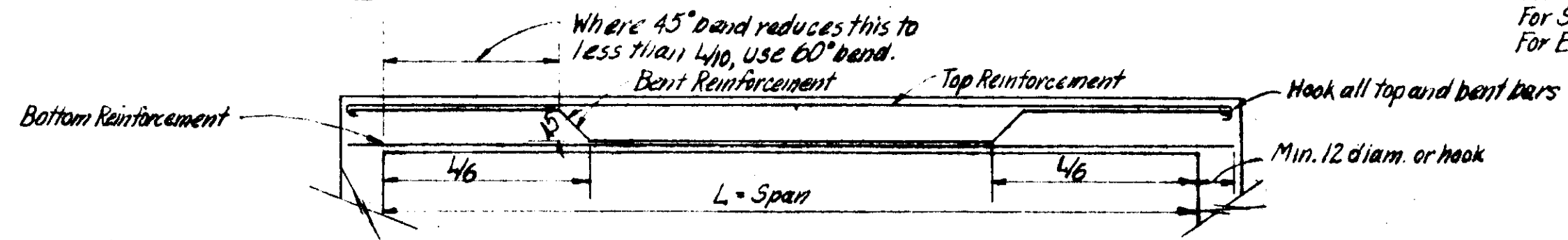
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 DATE: 05/01/14  
**SHEET M-3**





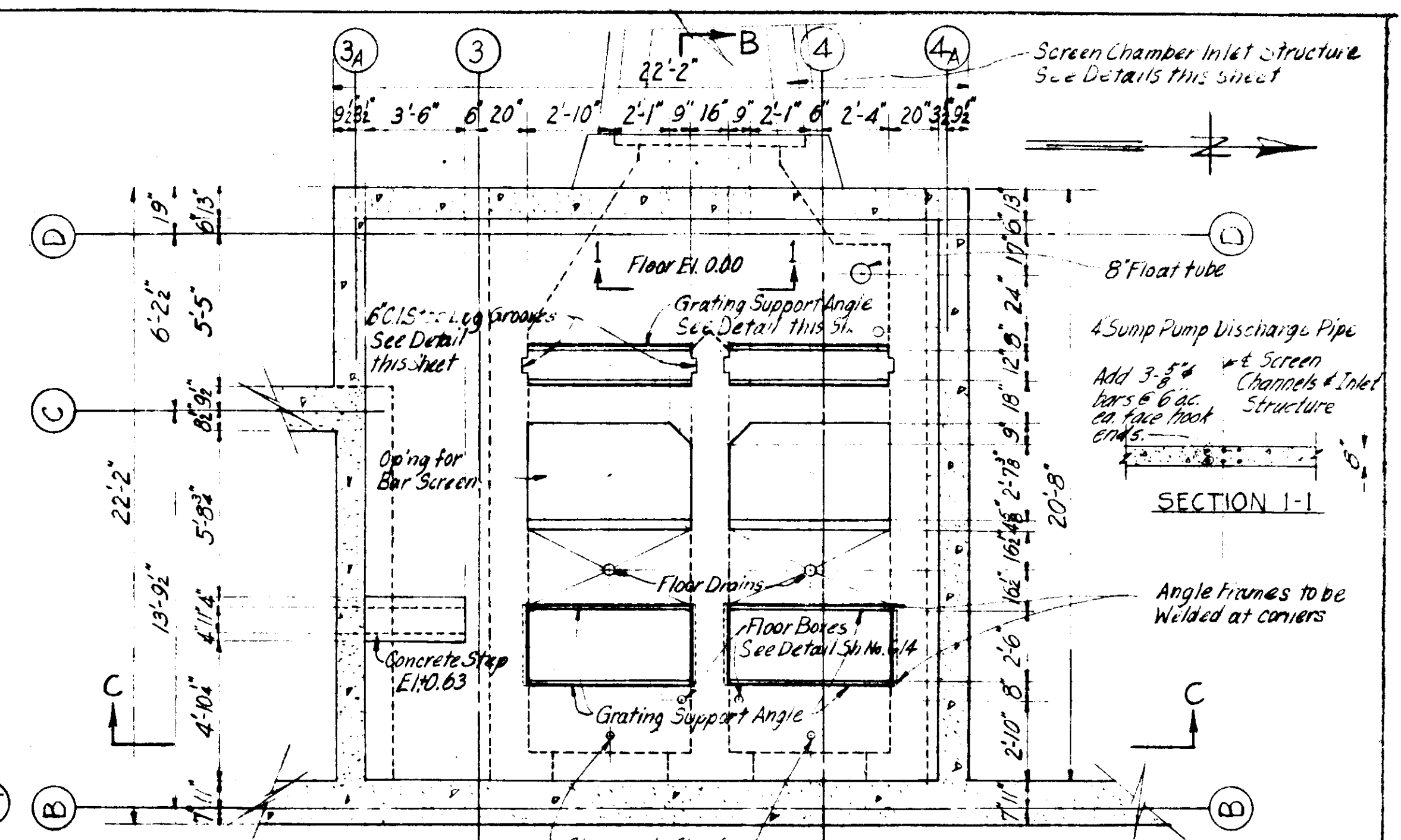
PLAN AT ELEVATION +8.50  
Scale: 1/4"=1'-0"

Note:  
For Section A-A See Sheet No. G-4  
For Sections B-B to D-D See Sheet No. G-5  
For Sections E-E to L-L See Sheet No. G-9  
For Superstructure Framing See Sh. No. G-6 and G-9  
For Superstructure Details See Sh. No. G-10 to G-13  
For Equipment Details See Sheet No. G-14 and G-15

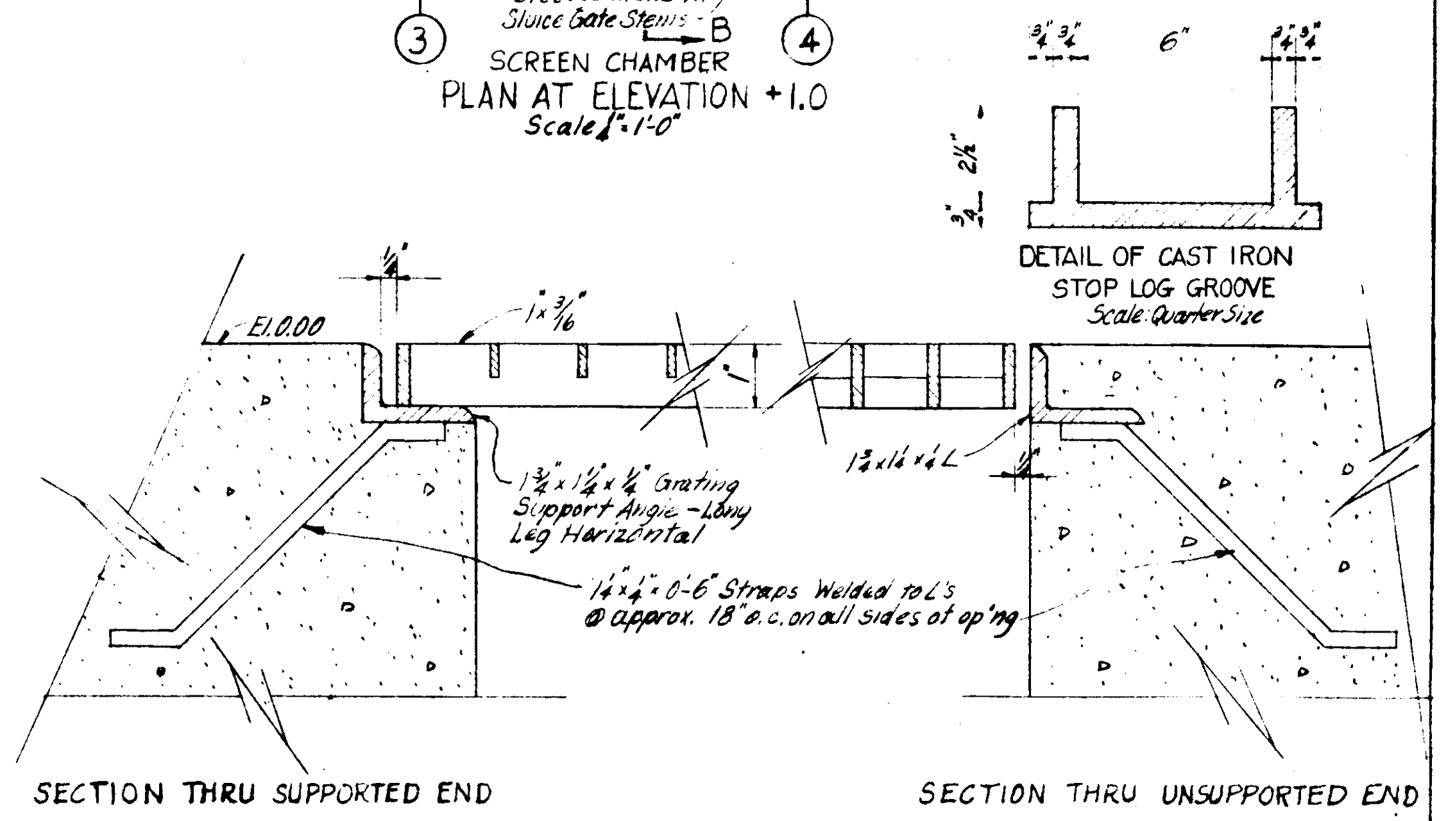


Beam No.	Beam Size	Longitudinal Reinforcement			Stirrups		Remarks
		Top	Bottom	Bent	Size	Left End*	
B-1	20x28	2-2#	4-1#	2-2#	3#	3#3, 2#4, 5, 8"	3#3, 2#4, 5, 8"
B-2	18x23	—	3-1#	2-1#	2#	2, 3, 3, 3, 4, 4, 5, 8, 12"	2, 3, 3, 3, 4, 4, 5, 8, 12"
B-3	12x12	2-2#	2-2#	—	2#	12" Spacing Entire Length	Add 1" #12 ac horiz. ea. side
B-4	18x38	3-2#	3-1#	—	2#	2, 3, 3, 5, 12"	2, 3, 3, 5, 12"
B-5	15x17	—	2-2#	2-2#	2#	2, 3, 3, 12"	2, 3, 3, 12"
B-6	15x15	—	3-2#	2-2#	2#	2, 3, 3, 12"	2, 3, 3, 12"
B-7	16x24	—	2-2#	2-2#	2#	2, 3, 3, 12"	2, 3, 3, 12"
B-8	19x24	—	2-2#	2-2#	2#	2, 3, 3, 12"	2, 3, 3, 12"

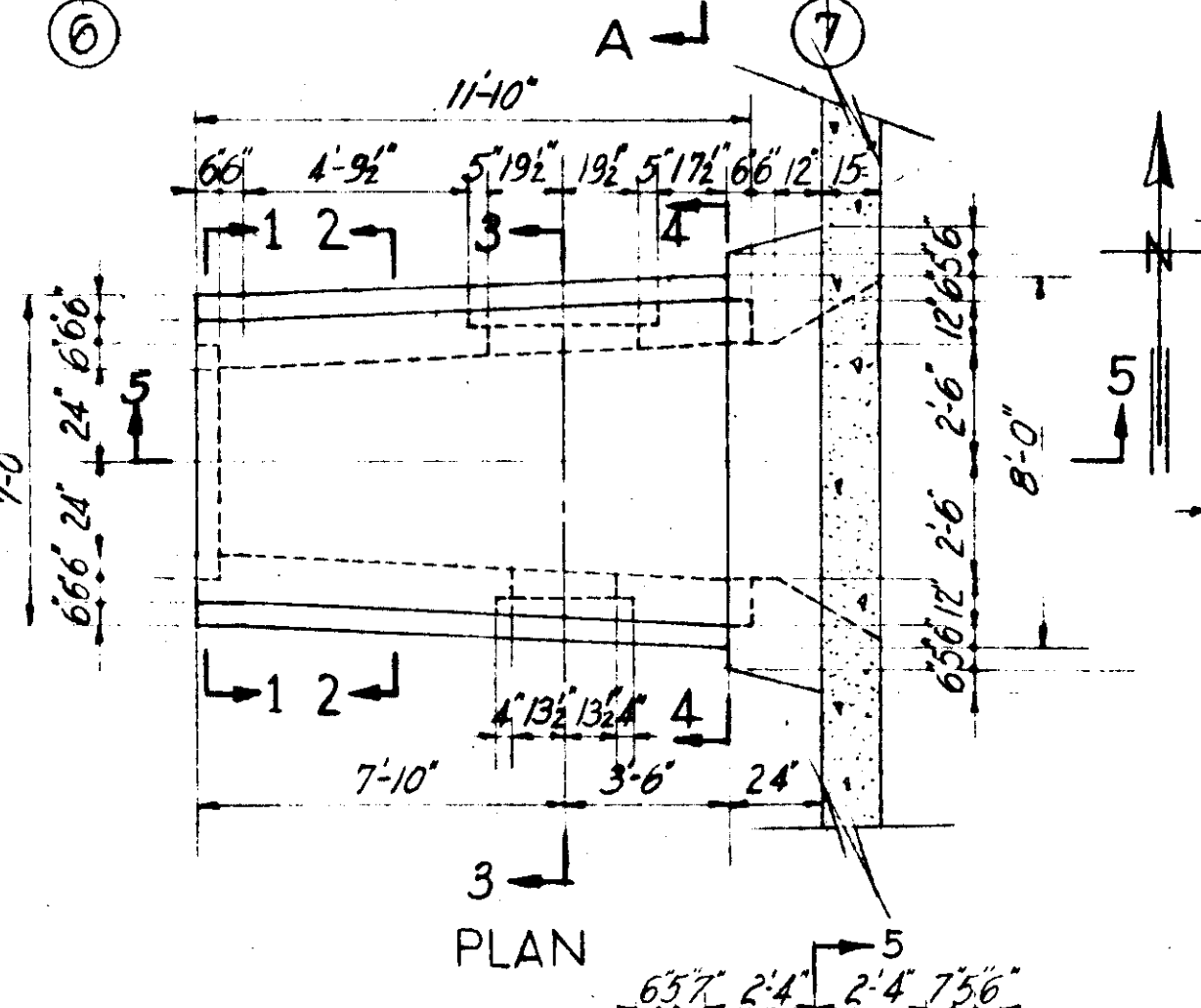
\*For orientation purposes look at all beams in plan from bottom of sheet or from right side of sheet



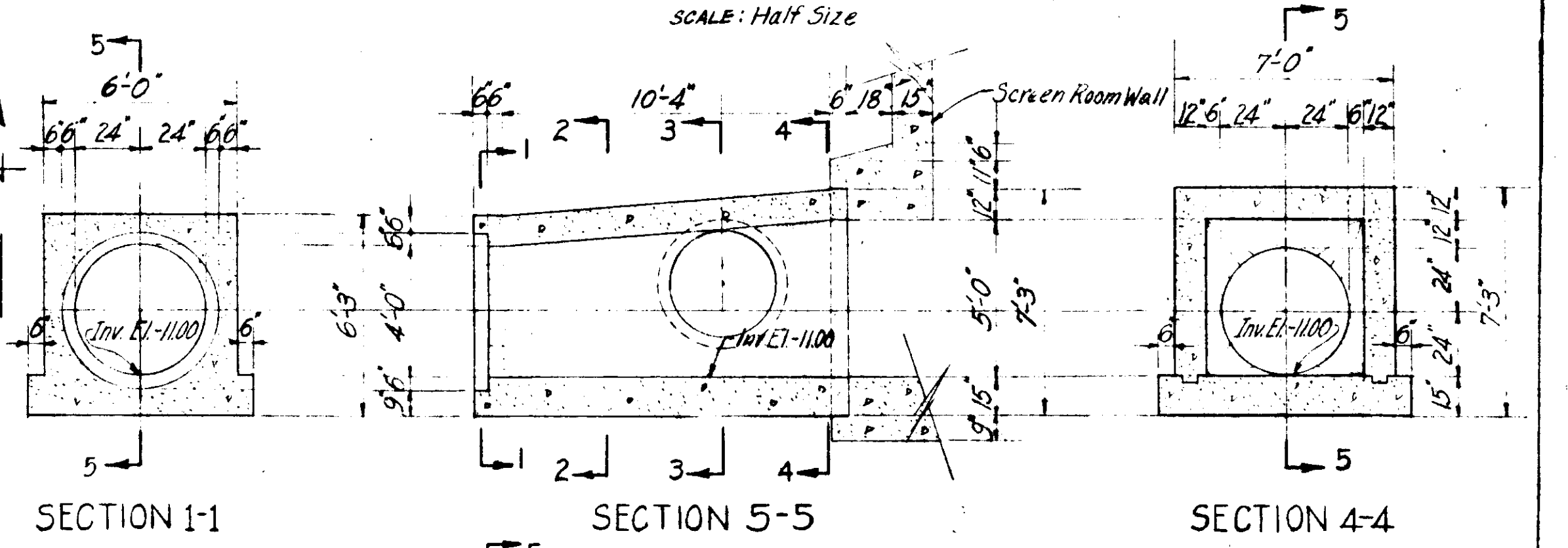
SCREEN CHAMBER  
PLAN AT ELEVATION +1.0  
Scale: 1/4"=1'-0"



STEEL FLOOR GRATING DETAILS  
SCALE: Half Size



DETAILS OF SCREEN CHAMBER  
INLET STRUCTURE  
Scale: 1/4"=1'-0"



SECTION 1-1 SECTION 5-5 SECTION 4-4

AS-BUILT PLAN  
Revised to show actual conditions according to construction records as of Dec. 19, 1951 (G.L.L. 4-12-52) Ckd. [Signature]

GREELEY & HANSEN  
ENGINEERS  
CHICAGO, ILL.

CITY OF TAMPA, FLORIDA  
SEWAGE DISPOSAL SYSTEM  
DIV. G1, G2 & G3 KRAUSE ST. PUMPING STATION

**SUBSTRUCTURE  
PLANS AND DETAILS**

SCALE  
0 2 4 6 8 10 12 Ft.  
1" = 1'-0"  
1/4" = 1'-0"

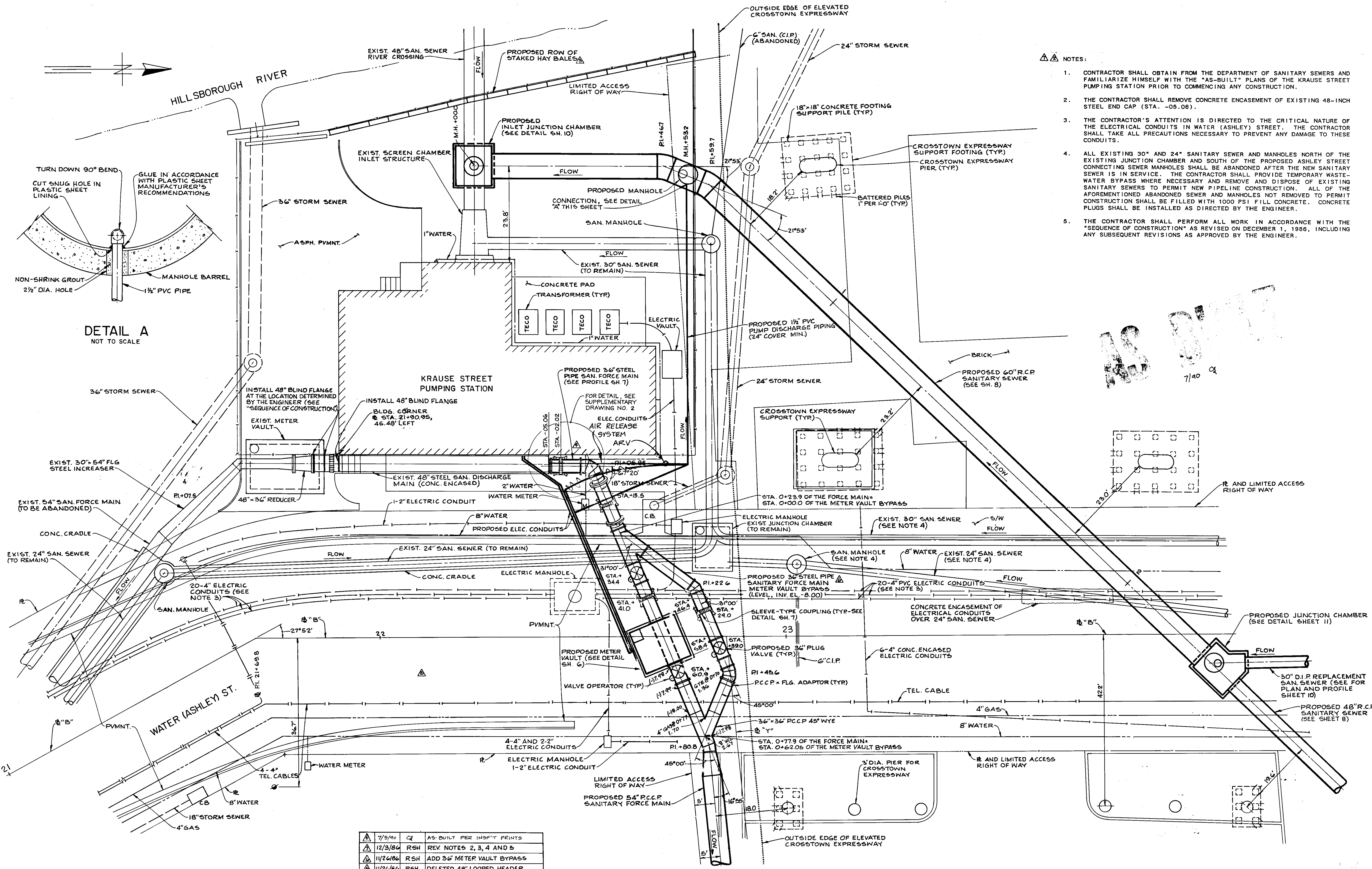
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DR.: J.V.D.  
CHK.: K.F.L.  
DATE  
JUNE-1949

SHEET  
G-3  
OF 17

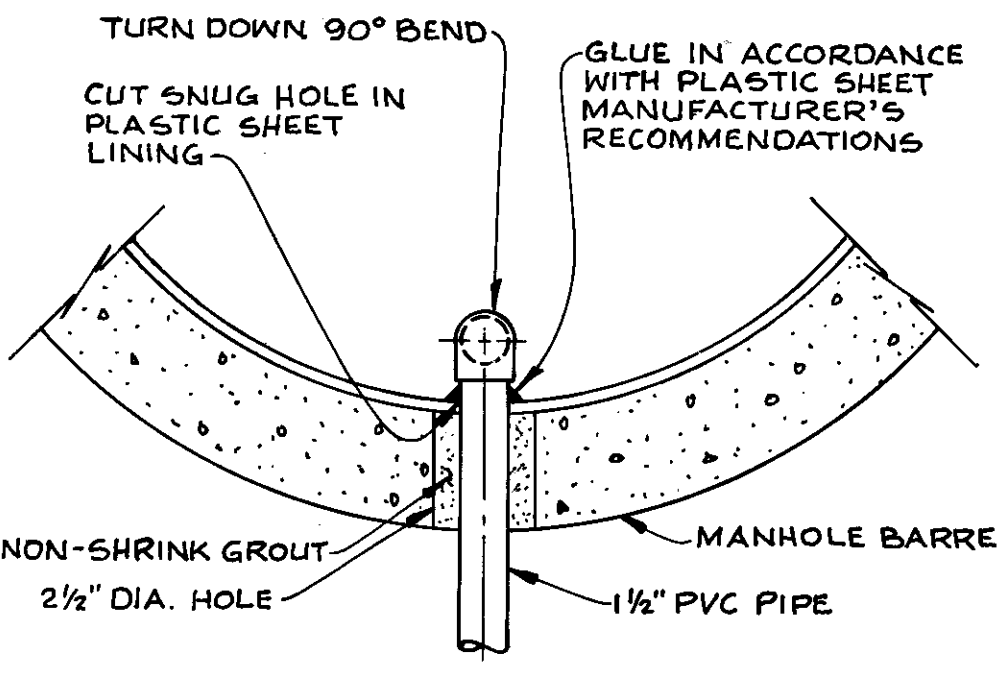






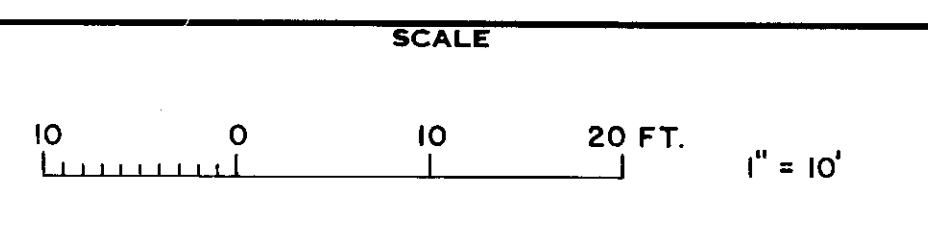


- NOTES:
- CONTRACTOR SHALL OBTAIN FROM THE DEPARTMENT OF SANITARY SEWERS AND FAMILIARIZE HIMSELF WITH THE "AS-BUILT" PLANS OF THE KRAUSE STREET PUMPING STATION PRIOR TO COMMENCING ANY CONSTRUCTION.
  - THE CONTRACTOR SHALL REMOVE CONCRETE ENCASUREMENT OF EXISTING 48-INCH STEEL END CAP (STA. -05.08).
  - THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE CRITICAL NATURE OF THE ELECTRICAL CONDUITS IN WATER (ASHLEY) STREET. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT ANY DAMAGE TO THESE CONDUITS.
  - ALL EXISTING 30" AND 24" SANITARY SEWER AND MANHOLES NORTH OF THE EXISTING JUNCTION CHAMBER AND SOUTH OF THE PROPOSED ASHLEY STREET CONNECTING SEWER MANHOLES SHALL BE ABANDONED AFTER THE NEW SANITARY SEWER IS IN SERVICE. THE CONTRACTOR SHALL PROVIDE TEMPORARY WASTE-WATER BYPASS WHERE NECESSARY AND REMOVE AND DISPOSE OF EXISTING SANITARY SEWERS TO PERMIT NEW PIPELINE CONSTRUCTION. ALL OF THE FOREMENTIONED ABANDONED SEWER AND MANHOLES NOT REMOVED TO PERMIT CONSTRUCTION SHALL BE FILLED WITH 1000 PSI FILL CONCRETE. CONCRETE PLUGS SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER.
  - THE CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE "SEQUENCE OF CONSTRUCTION" AS REVISED ON DECEMBER, 1986, INCLUDING ANY SUBSEQUENT REVISIONS AS APPROVED BY THE ENGINEER.



DETAIL A  
NOT TO SCALE

NO.	DATE	APPD	REVISION
△	7/9/90	CR	AS-BUILT PER INSP'T PRINTS
△	12/3/86	RSH	REV. NOTES 2, 3, 4 AND B
△	11/26/86	RSH	ADD 36" METER VAULT BYPASS
△	11/26/86	RSH	DELETED 48" LOOPED HEADER
△	10/1/86	RSH	REV. PUMPING STA. CONN. DETAILS
△	6/12/86	RSH	ADD HAY BALES
△	6/12/86	RSH	REV. NOTE 2
△	6/12/86	RSH	ADD SLEEVE-TYPE COUPLING STA. 0+2



**GREELEY AND HANSEN ENGINEERS**  
4350 WEST CYPRESS STREET  
TAMPA, FLORIDA 33607-4135

DESIGNED TYW  
DRAWN AA  
CHECKED RSH, TLW  
APPROVED  
DIR., DEPT. OF SANITARY SEWERS  
DATE  
GREELEY AND HANSEN ENGINEERS

CITY OF TAMPA, FLORIDA  
WASTEWATER DISPOSAL SYSTEM  
CONVENTION CENTER PIPELINE  
RELOCATIONS

SANITARY SEWER AND FORCE MAIN  
RELOCATIONS  
CONNECTION DETAILS AT KRAUSE ST.  
PUMPING STATION

PROJ. NO. 202D-201-01-23  
SHEET 4 OF 17  
DATE MAY 1986 REV 7

C219-26



CONTRACT 17-C-00006; West River Interceptor Cleaning - Pre-Bid Mtg. 12/13/2016, 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

City of Tampa, Contract Administration Department

	Name	Organization	E-Mail OR Phone
1	Jim Greiner, PE	Tampa Contract Administration Dept.	Jim.Greiner@tampagov.net
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7	Jim Lounsbury	NATIONAL WATER MAIN	Jim@NWMCC.com
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