



CITY OF TAMPA

Bob Buckhorn, Mayor

CONTRACT ADMINISTRATION DEPARTMENT

David L. Vaughn, AIA, Director

ADDENDUM NO. 2

DATE: April 2, 2014

Contract 13-C-00041; Howard F. Curren AWTP Methanol Feed Pump Replacement

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 the Drawing Sheets G-1, G-3, and C-2 with the attached revised sheets G-1, G-3, and C-2 dated 3/31/14.
- Item 2: Breaker Clarification: The existing 400A circuit breaker which currently feeds MCC-598 is not stab connected (refer to attached photo). The second (new) feeder breaker may be installed in a similar fashion to what is existing.

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.

Jim Greiner

Jim Greiner, P.E., Contract Management Supervisor

PROJECT WORK SUMMARY:

THIS PROJECT ENCOMPASSES THREE DIVISIONS OF WORK THAT INCLUDES CIVIL, MECHANICAL, AND ELECTRICAL TRADES. ALL PROJECT WORK WILL BE ACCOMPLISHED TO MAINTAIN UNINTERRUPTED METHANOL FEED OPERATIONS:

CIVIL: THIS WORK GENERALLY INCLUDES INSTALLATION OF NEW 4 INCH METHANOL TRANSFER AND FEED LINES (FROM THE EXISTING METHANOL STORAGE TANK CONTROL VALVES AND STRAINER TO THE IMPROVED METHANOL PUMP STATION), DEMOLITION AND RECONSTRUCTION OF THE AFFECTED FACILITY DRIVEWAY WITH NEW CONCRETE CURBING, CONCRETE PADS, AND OTHER MISCELLANEOUS POURED STRUCTURES. THE NEW METHANOL TRANSFER AND FEED LINES WILL BE INSTALLED IN A NEW TRAFFIC BEARING PIPE TRENCH AND GRATE AND A PRECAST SUMP AND ABOVE GRADE SELF-PRIMING SUMP PUMP WITH DISCHARGE PIPING DIRECTED TO THE EFFLUENT CHANNEL. THE CIVIL WORK ALSO INCLUDES IMPROVEMENTS IN BUILDING DRAINAGE WITH THE INSTALLATION OF NEW STORM GUTTER LINES ON THE PUMP STATION STRUCTURE, TO BE DIRECTED AWAY FROM THE BUILDING.

MECHANICAL: THIS WORK INCLUDES THE REMOVAL AND SALVAGE OF FOUR (4) EXISTING METHANOL PUMPS, FLOW METERS, AND RELATED EQUIPMENT AS NOTED ON THE PLANS, DEMOLITION AND REMOVAL OF EXISTING 2 INCH BLACK IRON PIPE AND APPURTENANCES, AND REPLACEMENT WITH FOUR (4) NEW PUMPS AND VALVES, PRESSURE SWITCHES, SPECIALTY PUMP PRESSURE CONTROLS AND EQUIPMENT. THE NEW EQUIPMENT WILL RECONFIGURED AND SUPPORTED WITH RELOCATED AND IMPROVED PIPE HANGERS AND PIPE SUPPORTS, STANCHIONS AND RELATED HARDWARE FOR THE NEW PIPING, VALVES, AND EQUIPMENT. ALL EXPOSED METALS WILL REQUIRE FIELD COATING AND ADDED COATING IN THE FIELD, AS SPECIFIED IN THE PLANS.

ELECTRICAL: THIS WORK WILL INCLUDE DEMOLITION OF THE EXISTING MOTOR CONTROL CENTER (MCC), INCLUDING THE CONTROL PANEL AND ANNUNCIATOR AND REMOVAL AND SALVAGE OF THE EXISTING GAS DETECTION EQUIPMENT. A NEW DOUBLE ENDED 480V MCC, 3 PHASE PANEL BOARD AND 480-120/208V, 3 PHASE TRANSFORMER TO SERVICE 120/208 V LOADS WILL BE INSTALLED IN PLACE OF THE FORMER MCC. A NEW METHANOL SYSTEM CONTROL PANEL WITH MAPLE TOUCHSCREEN GRAPHICS DISPLAY ANNUNCIATOR WILL BE INSTALLED. A NEW NEMA 4X ENCLOSURE WILL BE INSTALLED TO ENCLOSE THE EXISTING GAS DETECTION ANNUNCIATION EQUIPMENT. AN ADDITIONAL FEEDER CIRCUIT BREAKER IN EXISTING 'MCC 69' WILL BE PROVIDED TO THE NEW MCC (MCC59B) ALONG WITH TWO NEW FEEDER CIRCUITS.

▲ REVISED NOTES FOR BID CLARIFICATION

LOCAL, STATE & FEDERAL STATUTES NOTE:

THE CONTRACTOR IS ADVISED THAT ALL CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT SHALL COMPLY WITH LOCAL, STATE AND FEDERAL RULES AND STATUTES, WHETHER SHOWN OR IMPLIED ON THE PLANS OR CONTRACT DOCUMENTS. THE FOLLOWING RULES, LAWS AND STANDARDS APPLY.

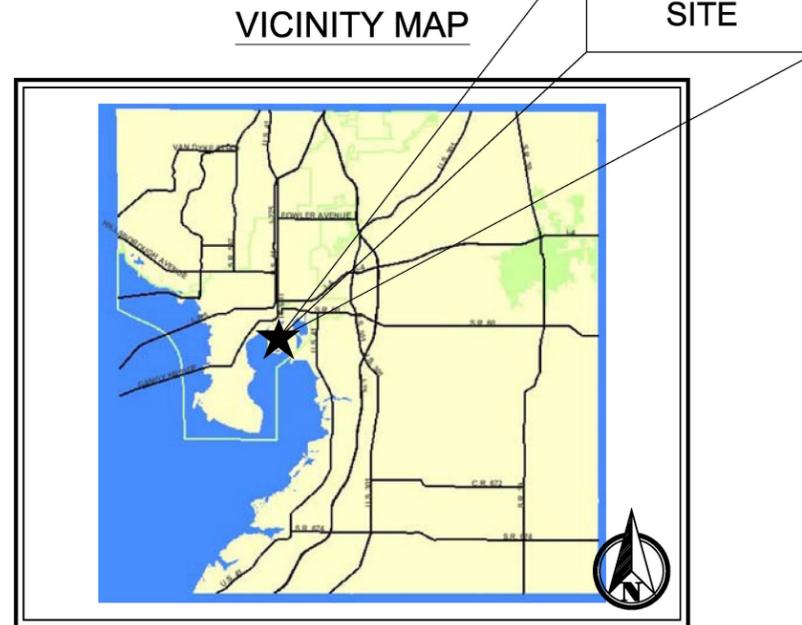
THIS INCLUDES BUT IS NOT LIMITED TO:

- 1) OSHA PART 1926 CFR 29, SAFETY & HEALTH REGULATIONS FOR CONSTRUCTION, US CLEAN WATER ACT (CWA) SECTION 402(p)(6) NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) FIRE PREVENTION CODE HANDBOOK, RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES (A.K.A. 10 STATE STANDARDS).
- 2) FLORIDA STATUTES CHAPTER 553 PART III- TRENCH SAFETY ACT.
- 3) FLORIDA STATUTES CHAPTER 553, PART IV-FLORIDA BUILDING CODE.
- 4) FLORIDA ADMINISTRATIVE CODE CHAPTER 62-604.
- 5) FLORIDA STATUTES CHAPTER 40D RULES OF THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT.
- 6) HILLSBOROUGH COUNTY ENVIRONMENTAL PROTECTION COMMISSION (HCEPC) ENABLING ACT AND RULES.
- 7) IT IS THE INTENT OF THESE PLANS TO COMPLY WITH LOCAL, STATE, AND FEDERAL STATUTES. ANY DESIGN INFORMATION WHETHER SHOWN OR NOT SHOWN ON THE PLANS DOES NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES TO COMPLY WITH ALL CODES, STATUTES AND RULES. THE CONTRACTOR SHALL INFORM THE ENGINEER IF THERE IS ANY QUESTION ABOUT THE INTENT OF THE PLANS AND THE REQUIREMENTS OF CODES, RULES, AND STATUTES.

HOWARD F. CURREN AWWTP METHANOL FEED PUMP REPLACEMENT CONTRACT NO. 13-C-00041

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SECTION 30 RANGE 29 TOWNSHIP 19

PREPARED FOR
CITY OF TAMPA WASTEWATER DEPARTMENT
306 E. JACKSON STREET - 6E
TAMPA, FL 33602



777 S. HARBOUR ISLAND BLVD., SUITE 870, TAMPA, FL 33602
TEL (813) 227-9190 FAX (813) 227-9195
COMPANY CERTIFICATE OF AUTHORIZATION 8363

ISSUED TO: **CITY OF TAMPA**
DATE ISSUED: MARCH 31, 2014
ADDENDUM 2 BID CLARIFICATION

NO.	DATE	DESCRIPTION	S	T	R
1	03/31/2014	ADDENDUM 2 - BID CLARIFICATION			
DESIGNED BY:	HAM	DRAWN BY:	HAM	DATE:	FEBRUARY 24, 2014
CHECKED BY:	MJF	APPROVED BY:	MJF	JOB NO.:	1013005
				FOLIO #	199340.0000

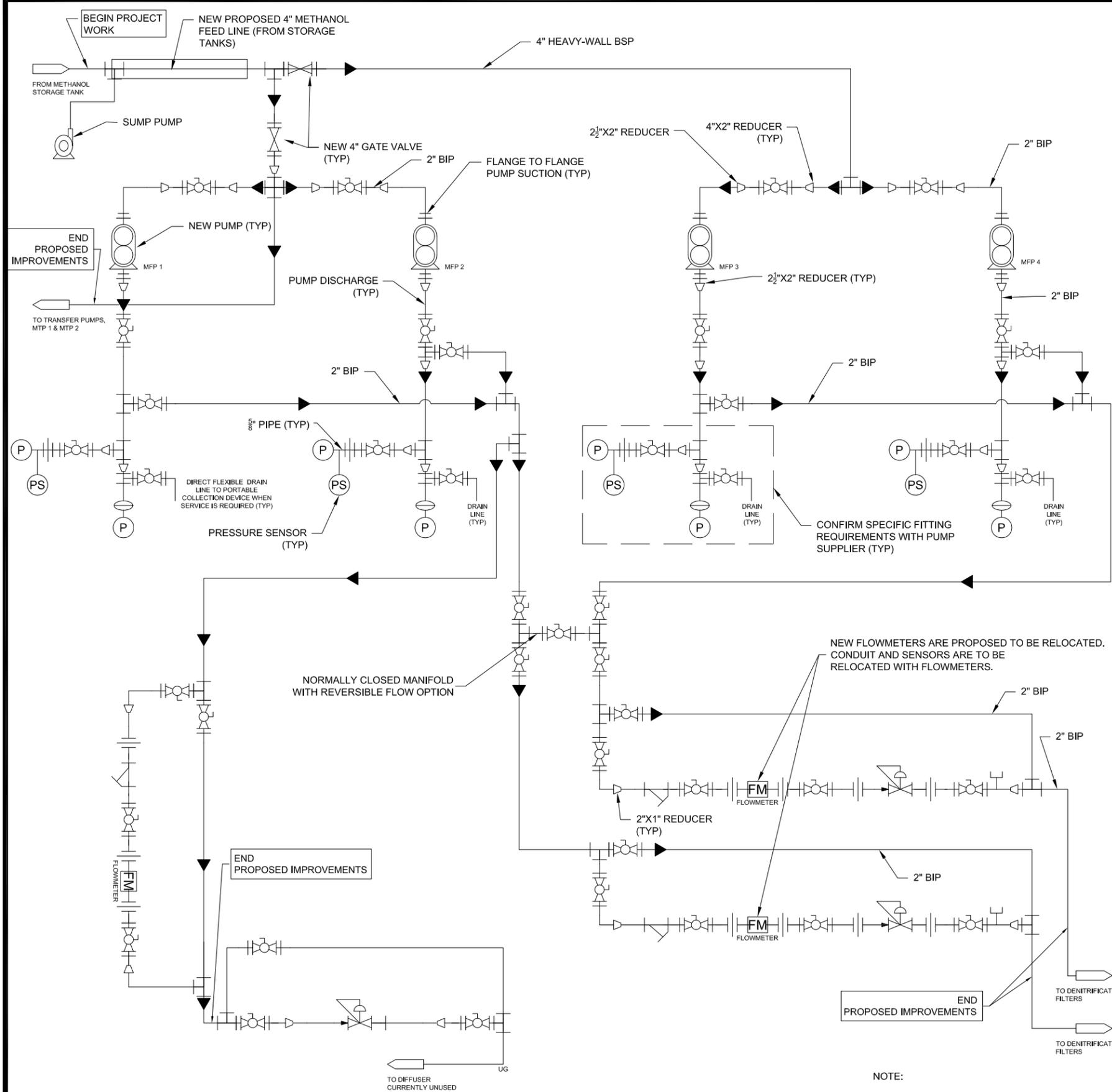
THESE PLANS MAY NOT BE COPIED OR MODIFIED WITHOUT WRITTEN PERMISSION FROM WATERMARK ENGINEERING GROUP, INC.
NOT VALID UNLESS SIGNED & EMBOSSED BY A REGISTERED ENGINEER

THESE PLANS MAY NOT BE COPIED OR MODIFIED WITHOUT WRITTEN PERMISSION FROM TRICON CONSULTING ENGINEERS
NOT VALID UNLESS SIGNED & EMBOSSED BY A REGISTERED ENGINEER

MARK FLINT, P.E. #38827 ENGINEER OF RECORD

TIMOTHY THOMAS, P.E. #47079 ELECTRICAL ENGINEER

G-1



△ SCHEMATIC CLARIFICATION

PROPOSED METHANOL FEED PIPING SCHEMATIC NTS

NOTE:
 BIP BLACK IRON PIPE
 BSP BLACK STEEL PIPE
 ALL PIPING AND FITTINGS SHALL BE FLANGED.
 SEE SHEET G-2 FOR SCHEMATIC LEGEND.

MECHANICAL PIPING NOTES: △ REVISED NOTES FOR BID CLARIFICATION

1. SCHEMATIC PLANS SHOW NEW MECHANICAL PIPING DIAGRAM TO PROVIDE FUNCTIONAL SYSTEM INFORMATION ONLY. SEE MECHANICAL PLANS FOR THE LOCATION OF SYSTEM COMPONENTS.
2. ALL METHANOL PIPING LESS THAN 3 INCHES IN DIAMETER SHALL BE FLANGED JOINT 3000 PSI BLACK IRON PIPE. ALL FLANGED JOINT BLACK IRON PIPE SHALL BE FIELD MEASURED, CUT, AND WELDED ON SITE. NO WELDING SHALL BE ALLOWED WITHIN 50 FT OF METHANOL STORAGE TANKS, METHANOL LINES, OR METHANOL PUMPS.
3. ALL PROPOSED METHANOL PIPING OF 3 INCHES OR GREATER IN DIAMETER SHALL BE HEAVY-WALL BLACK STEEL PIPE. ALL BELOW GRADE STEEL PIPE SHALL BE PRIMED AND COATED AND POLYWRAPPED.
4. NEW PROPOSED PIPING IN THE CHEMICAL FEED BUILDING SHALL BE INSTALLED WITH FIELD ADJUSTMENTS TO ADD OVERHEAD SUPPORT WITH STAINLESS STEEL PIPE HANGERS AND ADJUSTABLE THREADED ROD PIPE HANGERS. THE MAXIMUM ROD SPACING SHALL BE 3 FEET.
5. ALL SUPPORTS SHALL PROVIDE METHODS TO REMOVE PIPING COUPLINGS OR FITTINGS WITHOUT CREATING BENDING STRESS FROM UNSUPPORTED PIPE.
6. ALL PIPING, FASTENERS, AND OTHER METAL APPURTENANCES SHALL BE OF SIMILAR METALS, OR INSULATED TO PREVENT DISSIMILAR METAL CONTACT.
7. ALL VALVES LESS THAN 4 INCHES IN DIAMETER SHALL BE BALL VALVES AND CONSTRUCTED OF 316 STAINLESS STEEL.
8. ALL METHANOL SUCTION AND DISCHARGE PIPING WITHIN THE PUMP PADS LESS THAN 4" IN DIAMETER SHALL BE SUPPORTED FROM ABOVE BY UNI-FLANGE PIPE HANGERS AND ADJUSTABLE THREADED RODS.
9. ALL METHANOL PIPING SHALL BE PRIMED AND PAINTED (COLOR ORANGE) PRIOR TO ASSEMBLY, AND FOLLOWED WITH A FINAL COAT AROUND ALL VALVES AND FITTINGS-NO EXPOSURE OF BARE PIPE OR PIPE CONNECTIONS SHALL BE ALLOWED.
10. PRECISE LENGTHS AND INSTALLATION DETAILS OF METHANOL PIPING SHALL BE FIELD DETERMINED AND FABRICATED IN THE FIELD.
11. THE CONTRACTOR SHALL PROVIDE ALL SPECIALIZED FITTINGS OR APPURTANCES THAT MAY BE REQUIRED BY THE METHANOL PUMP SUPPLIER IN ORDER TO ACCOMMODATE INSTALLATION AND PROPER OPERATION OF THE PUMP EQUIPMENT.
12. ALL METHANOL PIPE FITTINGS, AND VALVES SHALL UTILIZE TEFLON GASKETS AND/OR VALVE SEATS THAT ARE METHANOL RESISTANT.
13. ALL METHANOL PIPING SHALL BE WELDED FLANGED PIPE. NO THREADED FLANGED PIPING SHALL BE ALLOWED.

NO.	DATE	DESCRIPTION	BY	APP. NO.
1	07/27/2014	ISSUE FOR BID	HAM	10133005
2				
3				
4				
5				
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7				
8				
9				
10				
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THESE PLANS MAY NOT BE COPIED OR REPRODUCED WITHOUT THE WRITTEN PERMISSION OF WATERMARK ENGINEERING GROUP, INC. THESE PLANS HAVE BEEN PREPARED AND CHECKED BY A REGISTERED PROFESSIONAL ENGINEER.

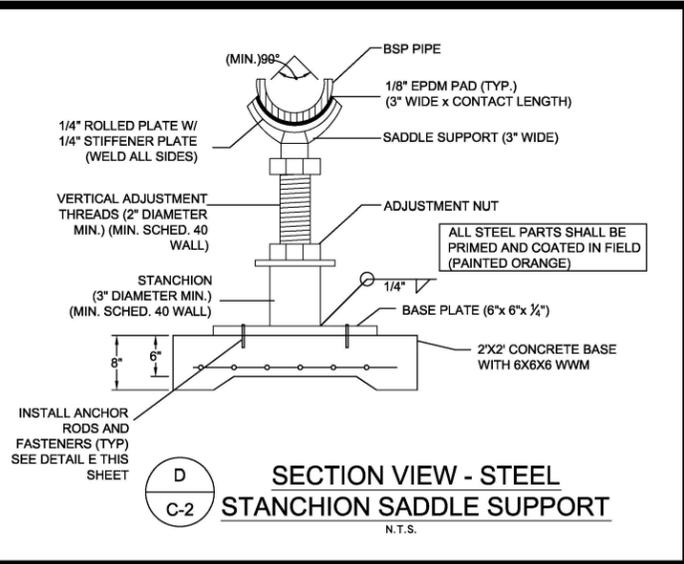
DATE: 07/27/2014
 DRAWN BY: HAM
 CHECKED BY: HAM
 PROJECT NO.: 10133005
 SHEET NO.: 10133005

METHANOL FEED SCHEMATICS AND EQUIPMENT SCHEDULE

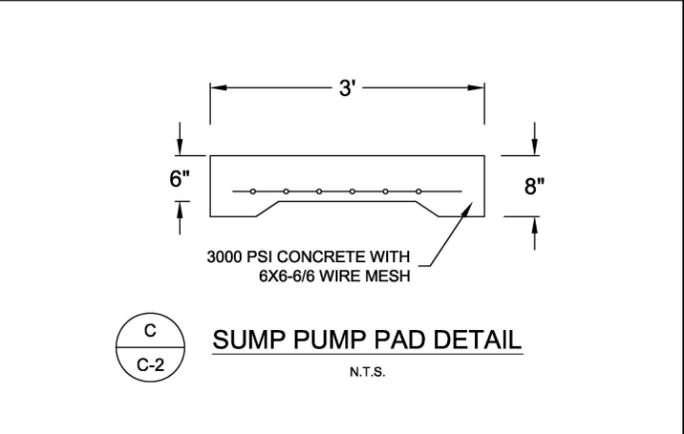
**HOWARD F. CURREN
 AWWTP METHANOL FEED PUMP REPLACEMENT
 2700 MARITIME BLVD**

WATERMARK ENGINEERING GROUP, INC.
 1312 APOLLO BEACH BLVD, SUITE G, APOLLO BEACH, FL 33641
 TEL: (813) 641-1200 FAX: (813) 641-1204
 CERTIFICATE OF AUTHORIZATION 25960

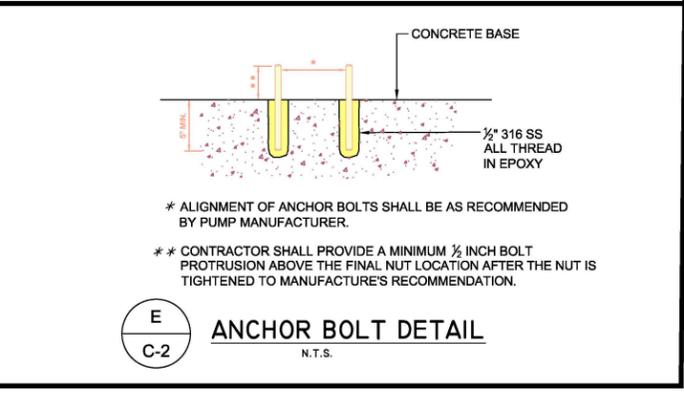




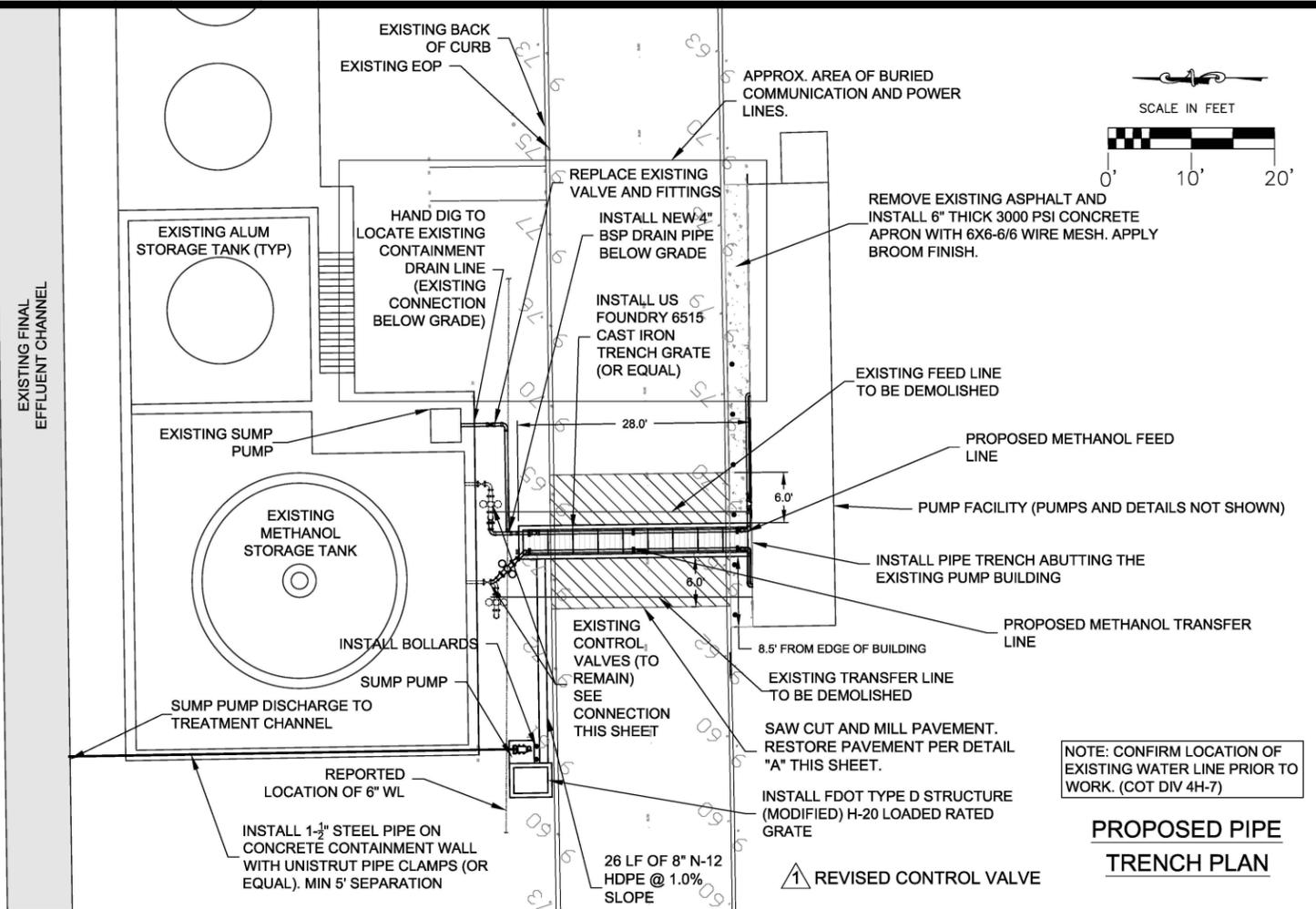
D
C-2
SECTION VIEW - STEEL STANCHION SADDLE SUPPORT
N.T.S.



C
C-2
SUMP PUMP PAD DETAIL
N.T.S.

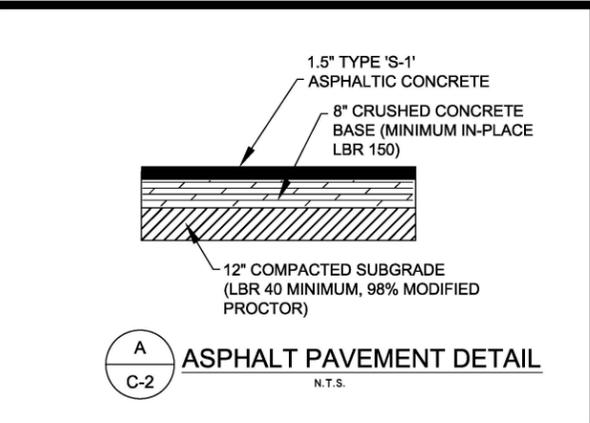


E
C-2
ANCHOR BOLT DETAIL
N.T.S.

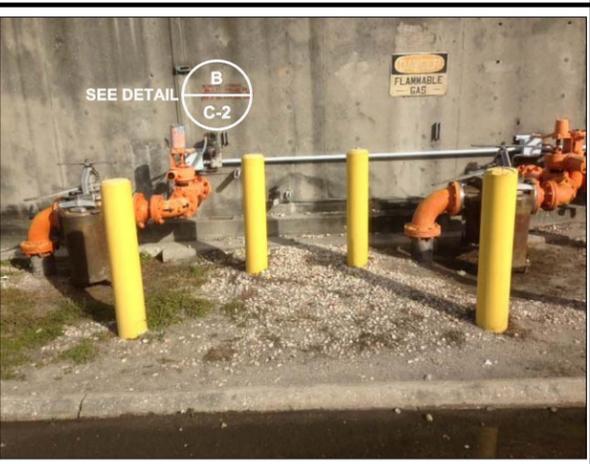


NOTE: CONFIRM LOCATION OF EXISTING WATER LINE PRIOR TO WORK. (COT DIV 4H-7)

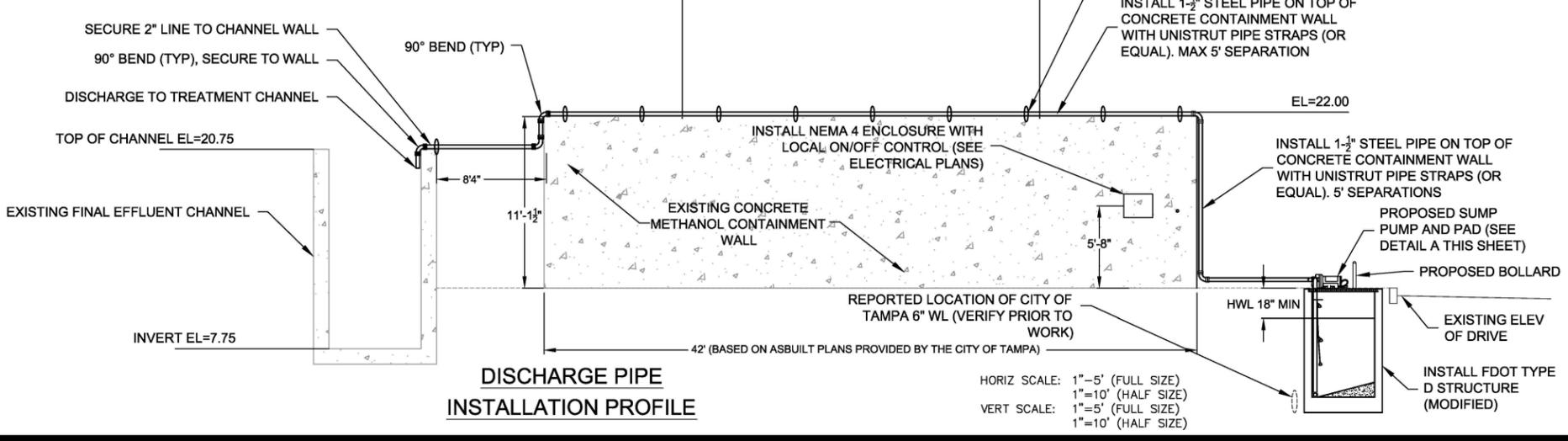
PROPOSED PIPE TRENCH PLAN



A
C-2
ASPHALT PAVEMENT DETAIL
N.T.S.

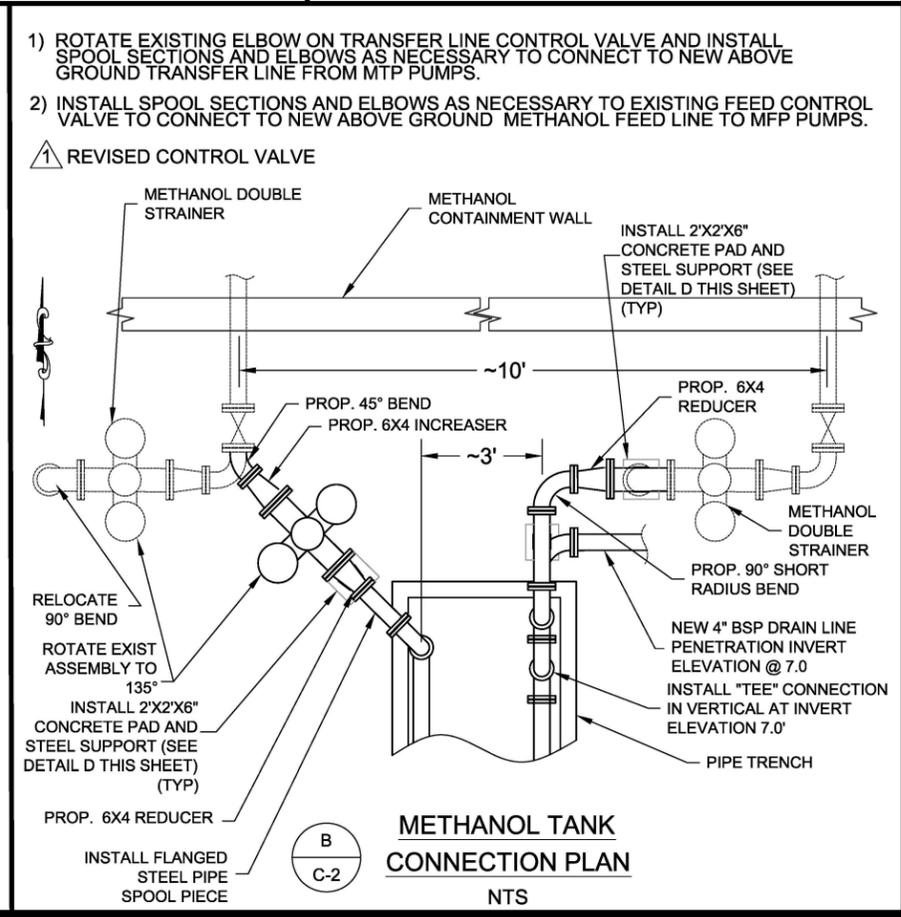


PIPE TRENCH INSTALLATION AREA PHOTO
N.T.S.



DISCHARGE PIPE INSTALLATION PROFILE

HORIZ SCALE: 1"=5' (FULL SIZE)
1"=10' (HALF SIZE)
VERT SCALE: 1"=5' (FULL SIZE)
1"=10' (HALF SIZE)



B
C-2
METHANOL TANK CONNECTION PLAN
NTS

NO. 07/2014 DATE 07/2014 DRAWN BY HAM CHECKED BY HAM CREDITED BY HAM APPROVED BY HAM PROJECT NO. 1013005
CIVIL SITE IMPROVEMENTS
HOWARD F. CURREN AWWTP METHANOL FEED PUMP REPLACEMENT 2700 MARITIME BLVD
WATERMARK ENGINEERING GROUP, INC. 1312 APOLLO BEACH BLVD, SUITE G, APOLLO BEACH, FL 33641 TEL: (813) 641-1200 FAX: (813) 841-1204 CERTIFICATE OF AUTHORIZATION 25890
C-2



40

FUSEMATIC
CIRCUIT BREAKER
FUSE COMPACT
LOADS: 15 AMP, 20 AMP, 25 AMP

1/2" 250V 15A

1/2" 250V 20A

1/2" 250V 25A