CITY OF TAMPA

Bob Buckhorn, Mayor **CONTRACT ADMINISTRATION DEPARTMENT**

David L. Vaughn, AIA, Director

ADDENDUM NO. 3

DATE: July 31, 2013

Contract 13-C-00020; Osborne Pumping Station Rehabilitation

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 plan sheet numbers 3, 5 and 14 with the attached plan sheet numbers 3, 5 and 14.

Item 2: Asbestos Survey Requirement Clarification: See attached revised Sheet No. 3, General Notes, Note G-34.

Item 3: Concrete Pavement and Subbase Clarification: See attached revised Sheet No. 3, General Notes, Note G-23.

Item 4: Proposed Construction Sequence Plan: See added notes on Sheet No. 3, General Notes, P-1 through P-10.

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

B077-048

DEMOLITION NOTES

D-1. SALVAGEABLE MATERIAL, AS DETERMINED BY DEPARTMENT PERSONNEL, SHALL BE DELIVERED TO THE PARTS WAREHOUSE LOCATED ON THE TREATMENT PLANT SITE. NON-SALVAGEABLE MATERIALS ARE TO BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF AT THE CONTRACTOR'S EXPENSE.

D-2. THE CONSTRUCTION SITE SHALL BE MAINTAINED IN AS NEAT AND ORDERLY CONDITION AS POSSIBLE DURING CONSTRUCTION OPERATIONS. SITE SHALL BE SECURED WITH TEMPORARY FENCING AND STRUCTURES DURING HOURS WHEN CONTRACTOR IS NOT PRESENT TO ENSURE SAFETY OF CITY EMPLOYEES AND THE PUBLIC.

D-3. CONTRACTOR SHALL RESTORE ALL LANDSCAPING, SODDING, SPRINKLER SYSTEM PIPING AND PAVEMENT THAT MAY HAVE BEEN DAMAGED DURING CONSTRUCTION TO ITS ORIGINAL CONDITION OR BETTER. CONTRACTOR SHALL SOD ALL UNPAVED AREAS.

GENERAL NOTES

G-1. CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE CONTRACT ADMINISTRATION DEPARTMENT, WASTEWATER PERSONNEL AND PUMPING STATION OPERATIONS.

G-2. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY RIGHT-OF-WAY PERMITS FOR THE PUMPING STATION WORK.

G-3. THE CITY WILL OBTAIN ALL NECESSARY BUILDING BUILDING PERMITS AND FDEP WASTEWATER PERMITS.

G-4. CONTRACTOR SHALL CALL SUNSHINE (1-800-432-4770) AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY.

G-5. NORMAL WORKING HOURS SHALL BE WEEKDAYS FROM 7:30 AM TO 4:00 PM UNLESS OTHERWISE APPROVED BY THE ENGINEER.

G-6. THREE NEW PUMPS SHALL BE SUPPLIED FOR THIS PROJECT. PROPOSED PUMPS ARE FLYGT PUMPS, MODEL 3201.180. 35HP PUMPS SHALL BE SUPPLIED WITH FLYGT MIX-FLUSH VALVES. ALL PROPOSED PUMP BASES SHALL BE 10-INCH DIAMETER DISCHARGE ELBOWS.

G-7. CONTRACTOR SHALL FURNISH AND INSTALL BACK-UP PUMP MODEL CD225M, SIZE 8" X 8" AS MANUFACTURED BY XYLEM PUMPS, BRIDGEPORT, NEW JERSEY OR APPROVED EQUAL.

G-8. REMOVAL OF EXISTING PAVEMENT AND BASE MATERIAL SIDEWALK, CURB, POLES, UNDERGROUND PIPES, STRUCTURES, FOUNDATIONS, AND OTHER MISCELLANEOUS ITEMS SHALL BE INCLUDED IN THE LUMP SUM PRICE AND NO SEPARATE PAYMENT WILL BE MADE.

G-9. CONTRACTOR SHALL VERIFY QUANTITIES OF ALL NECESSARY PIPES, REDUCERS, FITTINGS, SUPPORTS, AND ANY MISCELLANEOUS BRACKETS.

G-10. DIMENSIONS SHOWN ARE NOT NECESSARILY ACCURATE TO THE DEGREE REQUIRED FOR FABRICATION. EXISTING DIMENSIONS AND VIEWS ARE SHOWN BASED ON THE BEST INFORMATION AVAILABLE. CONTRACTOR SHALL FIELD VERIFY ALL PERTINENT DIMENSIONS AND REFLECT THEM ON DETAILED SHOP DRAWINGS FOR APPROVAL BEFORE ANY FABRICATION.

G-11. SHOP DRAWINGS SHALL BE SUBMITTED AND APPROVED BY THE CITY FOR ALL PROPOSED ITEMS. ALL SUBMITTALS AND SHOP DRAWINGS SHALL BE ORIGINALS OR HIGH QUALITY COPIES (CLEARLY LEGIBLE). NO FAXED SHEETS OR POOR QUALITY COPIES WILL BE ACCEPTED FOR SUBMITTAL REVIEW.

G-12. PUMP DISCHARGE PIPING IN WET WELL SHALL BE 10-INCH DIAMETER HDPE, SDR-11, GREEN STRIPE, DIPS-OD. HDPE JOINTS SHALL BE FLANGED WITH 316 SS BACK UP RINGS.

G-13. PLUG VALVES SHALL BE DEZURIK, PEF 100% PORT, ECCENTRIC PLUG VALVES OR APPROVED EQUAL. ALL ABOVE GROUND PLUG VALVES SHALL BE PROVIDED WITH 2" NUTS AND NO HANDWHEELS.

G-14. CHECK VALVES SHALL BE APCO RUBBER FLAPPER SWING CHECK VALVES, SERIES 100. THIS EQUIPMENT IS A STANDARDIZED ITEM AT THIS FACILITY AND NO "OR EQUAL" SUBMITTALS WILL BE CONSIDERED.

G-15. ALL HARDWARE, UNLESS OTHERWISE NOTED, SHALL BE TYPE 316 STAINLESS STEEL.

G-16. PIPE SUPPORTS SHALL BE CONSTRUCTED AS SHOWN IN THE PIPE SUPPORT DETAIL.

G-17. ALL CEMENTITIOUS CONCRETE AND GROUT, UNLESS OTHERWISE NOTED, SHALL BE CLASS "B", 4000 PSI COMPRESSIVE STRENGTH AT 28 DAYS. ALL REINFORCING STEEL SHALL BE GRADE 60.

G-18. OSHA STANDARD SAFETY EQUIPMENT SUCH AS SAFETY HARNESSES, GAS MONITORS, LOWER EXPLOSIVE LIMIT (LEL) DETECTORS, BREATHING APPARATUS, ETC. SHALL BE UTILIZED WHERE THE WORK DICTATES THEIR USE.

G-19. ALL METAL PIPE, FITTINGS, VALVES, ETC. SHALL RECIEVE:
1) SHOP COAT - ONE COAT, 4-6 MILS (DRY) TNEMEC N140-1211 EPOXY PRIMER.
2) FIELD COAT - ONE COAT, 5-7 MILS (DRY) TNEMEC SERIES 446 PERMA-SHIELD MCU
3) FIELD COAT
A) ABOVE GRADE : ONE COAT, 4-6 MILS (DRY) TNEMEC 1074U ENDURASHIELD (WITH FACTORY ADDED UV BLOCKER)
B) BELOW GRADE : ONE COAT, 5-7 MILS (DRY) TNEMEC SERIES 446 PERMA-SHIELD MCU

G-20. BACKFILL (NO CLAY OR CLAYEY MATERIAL) SHALL BE COMPACTED IN 6-INCH LAYERS (MAX.) TO 98% MAXIMUM DRY DENSITY OF MODIFIED PROCTOR iN CONFORMANCE WITH AASHTO T-180, METHOD A.

G-21. ALL STAINLESS STEEL PARTS TO BE WELDED SHALL BE THE LOW-CARBON VERSION OF THE GRADE OF STAINLESS STEEL THAT IS CALLED FOR, SUCH AS: T-316L OR T-304L.

G-22. CONTRACTOR SHALL POUR A NEW CONCRETE FILLET, AT THE BOTTOM OF THE WET-WELL, AS SHOWN IN THE PLANS WITH CLASS "D" (2,000 PSI @ 28-DAYS) CONCRETE.

⚠ G-23. ALL CONCRETE PAVEMENT, UNLESS OTHERWISE NOTED, SHALL BE MIN 6" THICK CONCRETE WITH 4X4 W2.1XW2.1 WWF. CONCRETE SHALL BE CONSTRUCTED ON COMPACTED SUBBASE (MINIMUM 98% MODIFIED PROCTOR) WITH 1.5" DEEP CONTROL JOINTS SAWCUT @ 15' MAX, CUT WITHIN 12 HRS OF CONCRETE PLACEMENT.

G-24. CONTRACTOR TO SUBMIT METHOD FOR 100% WATERTIGHT SEALING AT PIPE PENETRATIONS THROUGH STRUCTURES. PROPOSED LINK SEAL OR APPROVED EQUAL.

G-25. CONTRACTOR SHALL PROVIDE A REDUCED PRESSURE BACKFLOW-PREVENTION DEVICE IN WATER SERVICE LINE, AS SHOWN IN DETAILS, AT A PLACE TO BE SPECIFIED DURING CONSTRUCTION. BACKFLOW PREVENTION DEVICE SHALL BE 1" WILKINS, MODEL #975 XL, OR EQUAL.

G-26. ALUMINUM ACCESS COVERS SHALL BE DESIGNED FOR A PEDESTRIAN LIVE LOADING OF 300 PSF WITH 316 STAINLESS STEEL HARDWARE, HINGES AND AUTOMATIC HOLD-OPEN ARM AS MANUFACTURED BY US FOUNDRY AND MANUFACTURING CORPORATION OR APPROVED EQUAL. THE PUMP ACCESS COVER SHALL BE A TRIPLE DOOR ARRANGEMENT WITH AN ANGLE FRAME FOR AN OVERALL OPENING OF 9 FT 6 IN BY 4 FT. THE DIMENSION OF EACH DOOR SHALL BE 3 FT 2 IN BY 4 FT AND OPEN/CLOSE INDEPENDENTLY TO THE OTHER DOORS. THE ACCESS DOORS SHALL ALSO BE EQUIPPED WITH A FLUSH LIFTING HANDLE, TAMPERPROOF FASTENERS AND EXPOSED PADLOCK STAPLES.

G-27. THE ACCESS COVER SHALL CLOSE FLUSH WITH THE FRAME. ALL ALUMINUM SURFACES THAT CONTACT CONCRETE SHALL BE COATED WITH TWO COATS OF COAL TAR EPOXY OR BITUMINOUS COATING OR EQUAL. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS DETAILING THE INSTALLATION AND CONFIGURATION OF THE ACCESS COVERS.

G-28. PROPOSED PRECAST WET WELL SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASTM C-76, CLASS II WALL B. MINIMUM STEEL REINFORCEMENT SHALL BE INNER CAGE .76 IN^2/FT AND OUTER CAGE .46 IN^2/FT. (SEE SPECIFICATIONS)

G-29. AUTOMATIC AIR RELEASE VALVE SHALL BE 2" APCO 400A (EPOXY COATED) WITH 1/2" ORIFICE OR APPROVED EQUAL. CONTRACTOR SHALL INSTALL 2" STAINLESS STEEL BALL VALVE BETWEEN DISCHARGE PIPING AND AIR RELEASE VALVE.

G-30. FLEXIBLE CONNECTOR TO BACKUP DIESEL PUMP (DISCHARGE SIDE) SHALL BE MODEL 8" 240 AS MANUFACTURED BY PROCO OR APPROVED EQUAL.

G-31. ALL DIP PIPE AND FITTING SHALL BE CLASS 53 WITH PROTECTO 401 INTERIOR COATING.

G-32. PVC GRAVITY PIPE AND FITTINGS SHALL BE SDR-26 (HEAVY WALL) IN COMPLIANCE TO ASTM FG79. PVC FM PIPE AND FITTINGS SHALL BE C-900 (DR-18)

G-33. EXISTING CHEMICAL TANK SHALL BE RELOCATED TO LOCATION AS SHOWN ON SHEET 5.

⚠ G-34. THE CITY DOES NOT BELIEVE ASBESTOS IS PRESENT IN THE BUILDING. PER EPC REQUIREMENTS, CONTRACTOR WILL BE REQUIRED TO PROCURE A THIRD PARTY ASBESTOS SURVEY FROM A LICENSED ASBESTOS CONSULTANT. DEMOLITION OF PUMP STATION BUILDING CANNOT BEGIN UNTIL (3) WEEKS AFTER THE ASBESTOS SURVEY IS SUBMITTED TO THE ENGINEER. THE CITY WILL FURNISH EPC WITH THE REQUIRED NOTIFICATION. IF THE SURVEY DISCOVERS THE PRESENCE OF ASBESTOS, THE CITY WILL UTILIZE CONTINGENCY FUNDS FOR THE ASBESTOS REMOVAL IN ACCORDANCE WITH EPC STANDARDS.

⚠ PROPOSED CONSTRUCTION SEQUENCE PLAN

P-1. INSTALL TEMPORARY BYPASS FROM MH#5 TO MH#2 TO ALLOW FOR CONSTRUCTION OF MH#3 AND INSTALLATION OF NEW PIPE FROM MH#1 AND MH#3.

P-2. CONSTRUCT PROPOSED MH#3. REMOVE AND REPLACE APPROXIMATELY 10' +/- OF EXISTING 24" CLAY PIPE (BETWEEN MH#3 AND MH#1) AND REPLACE WITH 24" PVCP. CONNECT TO EXISTING PVCP WITH PVC TO PVC COUPLING. (SEE NOTE 3 PG 5) RECONNECT EXISTING PIPE TO THE SOUTH TO MH#3 AND PROVIDE STUB FOR CONSTRUCTION OF PIPE TO THE EAST.

P-3. PLUG THE EAST INVERT OF MH#3 TO ALLOW FLOW TO CONTINUE TO EXISTING PUMP STATION AND REMOVE THE TEMPORARY BYPASS.

P-4. CONSTRUCT PROPOSED SUBMERSIBLE PUMP STATION.

P-5. CONSTRUCT PROPOSED INTERCONNECTION FORCE MAIN.

P-6. COMPLETE CONSTRUCTION OF SUBMERSIBLE PUMP STATION INCLUDING ELECTRICAL CONNECTIONS AND CONNECT TO FORCE MAIN AS SHOWN IN THE INTERCONNECTION DETAIL. COMPLETE INFLUENT GRAVITY SEWER INCLUDING MH#4 AND CONNECTION TO MH#3.

P-7. COMPLETE TESTING OF 24" GRAVITY SEWER, FORCE MAIN AND SUBMERSIBLE PUMP STATION.

P-8. UPON COMPLETION AND SUCCESSFUL TESTING OF 24" GRAVITY SEWER, FORCE MAIN AND SUBMERSIBLE PUMP STATION; OPEN VALVES AS NEEDED TO PLACE NEW STATION INTO SERVICE.

P-9. CLOSE VALVES AS NEEDED TO PLACE EXISTING STATION AND FORCE MAIN BETWEEN THE EXISTING STATION AND THE NEW STATION OUT OF OPERATION

P-10. COMPLETE DEMOLITION OF EXISTING PUMP STATION.

BYPASSING NOTES

B-1. SEWER SERVICE TO CUSTOMERS SHALL NOT BE DISRUPTED DURING CONSTRUCTION.

B-2. IT IS THE ENGINEER'S INTENT THAT THE NEW PUMPING STATION WILL BE CONSTRUCTED WHILE THE EXISTING PUMPING STATION REMAINS IN OPERATION. DURING THE START-UP OF THE NEW PUMP STATION, THE EX. PUMP STATION MUST BE CAPABLE OF OPERATING IN THE EVENT THERE ARE PROBLEMS WITH THE NEW PUMP STATION. AS AN ALTERNATIVE OF KEEPING THE OLD PUMP STATION OPERATIONAL, THE CONTRACTOR MAY PROVIDE BYPASS PUMPING RATED FOR 2,200 GPM @ 63' TDH. CONTRACTOR SHALL SUBMIT DETAILED PROPOSAL FOR PUMPING STRATEGY.

JACINTO CARLOS FERRAS, P.E. #49454
DESIGN DIVISION HEAD
WASTEWATER DEPARTMENT

No.	DATE	REVISIONS
3		
2		
⚠	7/26/13	ADDED CONSTRUCTION SEQUENCE, CHANGED MH#3, ADDED NOTE 3 SHT 5, REVISED PROFILE

DES: M.S./J.F.
DRN: J.H.J.
CKD:
DATE: 05/13/13

CITY of TAMPA
WASTEWATER DEPARTMENT

OSBORNE AVE. PUMPING STATION
GENERAL NOTES

W.O. 5896
SHEET 3

PLOTTED BY: MichaelF Salgado, DRAWING FILE: K:\ww_projects\2012\2012_5896_0 sborne ave ps\DWG\LEGEND.DWG
PLOT DATE: Monday, July 29, 2013 3:55:02 PM
CTB - WW-TOSHIBA.CTB
LAST SAVED BY: salf

B077–050

ATLAS F–9

SEC. 4 T29S R18E

0 20

1"=20'

SITE DATA:
EXISTING AREA = 9600 SF
EXISTING IMPERVIOUS AREA = 2139 SF (23%)
PROPOSED IMPERVIOUS AREA = 1958 SF (21%)*
FOLIO #: 1083260000
ADDRESS: 4717 THATCHER AVE.
TAMPA FL, 33614

* DOES NOT INCLUDE AREA DRAINING INTO WETWELL / WASTEWATER SYSTEM.

NOTES:

1) CENTER OF WET WELL TO BE 31'± SOUTH AND 37'± WEST OF THE NORTHEAST CORNER OF THE PUMP STATION PROPERTY.

2) ABOVE GROUND VALVES NOT SHOWN FOR CLARITY.

⚠ 3) RECENT TV INSPECTION OF THE EXISTING 24" PIPE BETWEEN MH#1 AND MH#2 SHOWS THAT THERE IS AN OFFSET JOINT APPROXIMATELY 10–FT SOUTH OF MH#1 AT THE POINT WHERE THE EXISTING PIPE TRANSITIONS FROM PVC TO VCP. CONTRACTOR SHALL REMOVE AND REPLACE THE EXISTING PIPE BETWEEN EXISTING MH#1 AND PROPOSED MH#3 WITH 24" PVCP. TO PREVENT HAVING TO PROVIDE A NEW OPENING IN EXISTING MH#1, A SHORT SECTION (1–2') OF EXISTING PVCP THAT EXTENDS FROM THE MANHOLE SHOULD BE LEFT IN PLACE AND THE NEW PVCP CONNECTED USING PVC TO PVC COUPLING.

THATCHER AVE.

W/L

R/W

8" V.C.P.

24" V.C.P.

24" P.V.C.

Head Wall

R/W

50'

Ditch

Private Warehouse

Property Line

PROP. FRP MANHOLE ⚠ AND 55' OF 24" P.V.C.P.

PROP. 10' +\– 24" PVCP. SEE NOTE 3⚠ THIS SHT.

PROP. 6' CHAIN LINK FENCE W/2 GATES. SEE (SHT. 19)

15'

M.H. #5

24" PVCP

M.H. #1

24" PVCP STUB ⚠

DIESEL PUMP

18'

12'

PROP. M.H. #3

10' R

Chain Link Fence

City Property To Lois Ave.

24" VCP ⚠

PROP. M.H. #4

M.H. #2

PROP. CONC. DRIVE WAY

RELOCATED CHEMICAL TANK

10' R

PUMP CONTROL PANEL

PROP. 12' WIDE, DOUBLE SWING GATE, CENTERED OVER GRAVITY SEWER AND FORCE MAIN. (TYP.)

TO TECO HAND HOLE

FM SHALL BE CAPPED W/ MJ BLIND FLANGES

Ex. 10" F.M.

Ex. 12" F.M.

PROP. 12" FORCE MAIN, APPROX. 170' CENTERED IN PROPERTY. (SEE NOTE 1, SHT. 20)

Ex. 10" F.M.

Ex. 12" F.M.

City Property To Lois Ave.

EX. 24" VCP & MH TO BE FILLED WITH GROUT AND ABANDONED.

EX. PUMP STATION TO BE DEMOLISHED

Ex. 10" F.M.

REMOVE & REPLACE EX. BACK FLOW PREVENT(SEE SHT. 16)

PROP. 12" FORCE MAIN INTERCONNECTION. (SEE SHT. 20)

PROP 1" SCH 80 PVC WATER & HOSE BIB @ BASE OF CONTROL PANEL

R/W

LOIS AVE.

E.O.P.

Ditch

PROPOSED SITE PLAN
1"=20'

PLOTTED BY MichaelF Salgado DRAWING FILE K:\WW_Projects\2012\2012_5896_O SBORNE Ave PS\DWG\PROPOSED SITE PLAN.DWG
PLOT DATE: Friday, July 26, 2013 8:50:57 AM LAST SAVED BY sm1 CTB - WW-TOSHIBA.CTB

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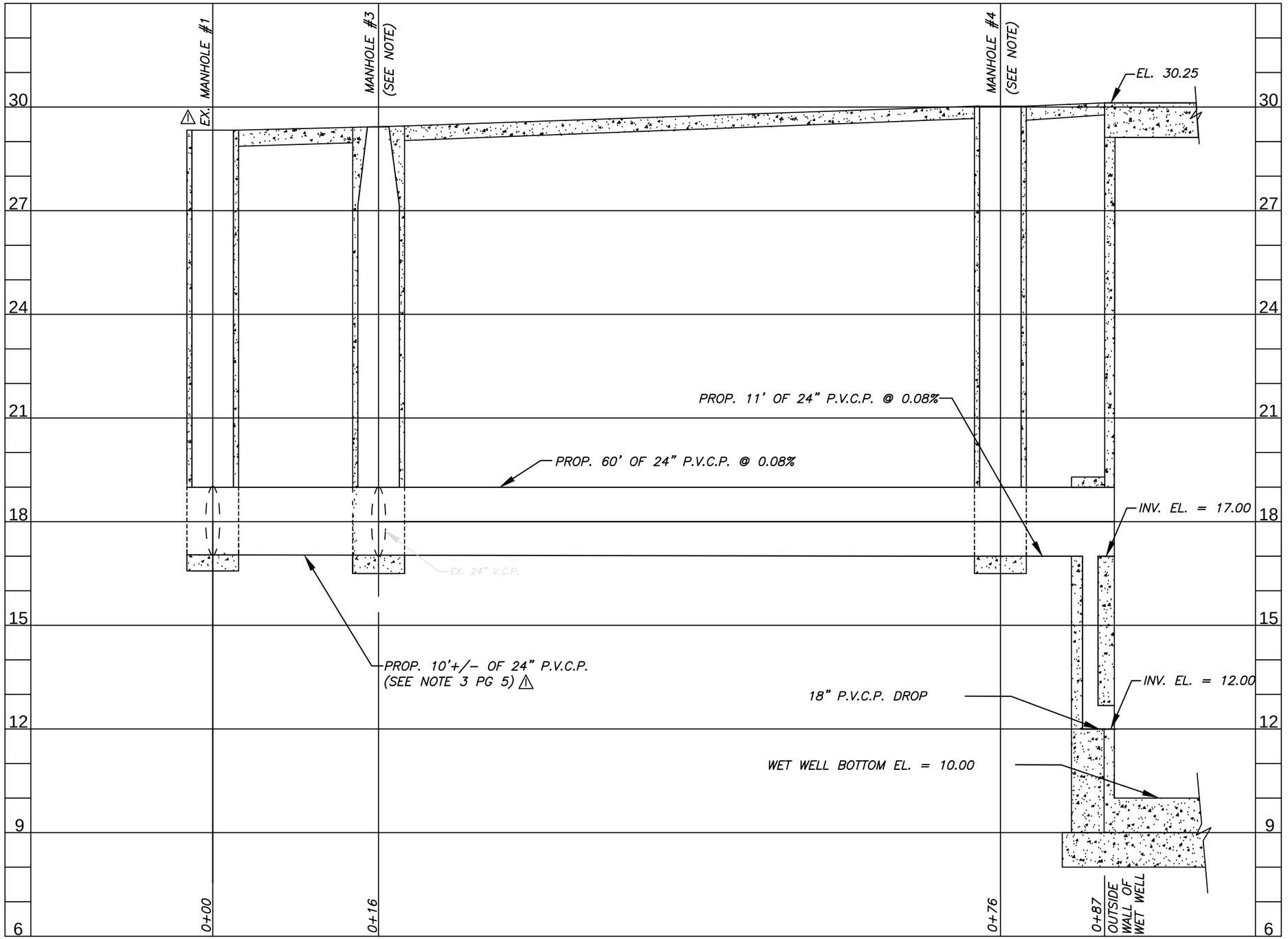
CITY of TAMPA
WASTEWATER DEPARTMENT

OSBORNE AVE. PUMP STATION
PROPOSED SITE PLAN

W.O. 5896
SHEET 5

B077–059



PROFILE

SCALE:
1"=10' HORIZ.
1"=30' VERT.

NOTE CONTRACTOR HAS THE FOLLOWING (2) OPTIONS FOR PROPOSED MANHOLE:

OPTION 1 – FIBERGLASS MH WITH A MIN. 6" CONCRETE ENCASEMENT AND WWF 4X4 W2.1/W2.1 STEEL REINFORCEMENT WRAPPED AROUND FRP MH. SEE SHT 25.

OPTION 2 – PRECAST CONCRETE MH WITH T–LOCK LINER. SEE SHT 26

M.H. #1 ⚠

STA. 0+00
EXISTING MANHOLE
TOP. EL. = 28.95
INV. EL. = 17.31(W)
INV. EL. = 17.18(S)

M.H. #3 ⚠

STA. 0+16
PROP. MANHOLE CENTERED BETWEEN M.H. #1 AND M.H. #2.
TOP EL. = 29.30 +/–
INV. EL. = 17.08(E)
INV. EL. = 17.41(S)
INV. EL. 17.16± (N) CALCULATED.
PLUG 24" V.C.P.(SOUTH)WITH BRICK AND MORTAR AND RECONSTRUCT FLOW CHANNEL AFTER ACCEPTANCE OF NEW PUMP STATION.

M.H. #4

STA. 0+76
PROP. 4' DIAMETER MANHOLE
TOP EL. 30.10
INV. EL. = 17.03(W)
INV. EL. = 17.01(E)

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CITY of TAMPA
WASTEWATER DEPARTMENT

OSBORNE AVE. PUMP STATION
PROFILE VIEW

W.O. 5896
SHEET 14 OF 38