



RFB for Wastewater Lift Station Numbers 8 and 16

November 8, 2016

Addendum 1: Items Discussed at Pre-bid Meeting and Questions Answered

This Addendum presents clarifications to items discussed at the pre-bid meeting as well as answers to questions presented to the City since the meeting, which was held on November 1st, 2016:

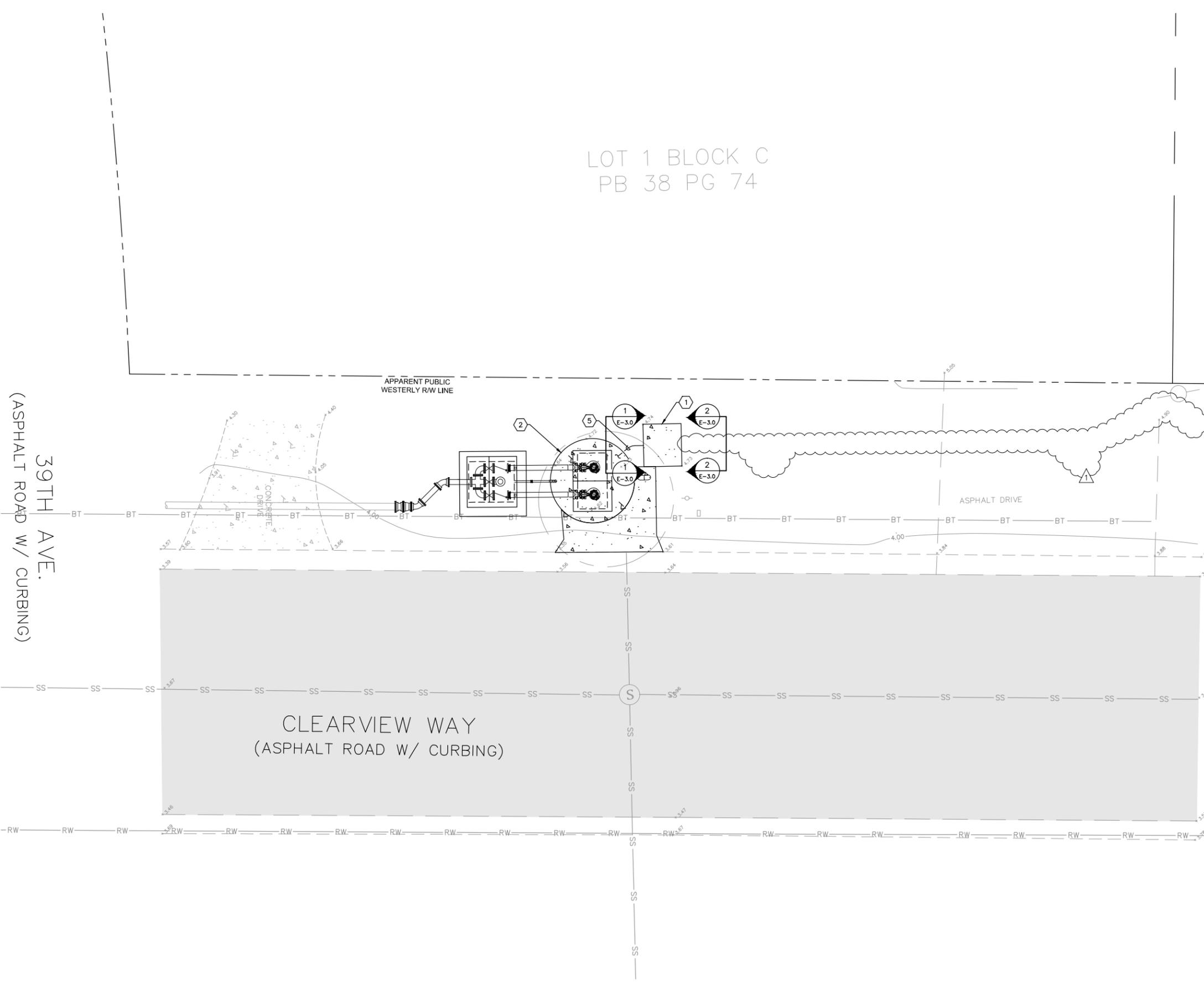
- **This Addendum does not change the due date or time for this solicitation (November 14th, 2016 at 3 PM).**
- Due to the recent failure of the pumps at lift station 8, the City was required to install a temporary bypass system (as discussed in the RFB). To accommodate the adjacent resident requests to replace the existing diesel powered bypass pump with a quieter electric pump, the City has elected to enlist the services of an electrical contractor to preemptively install the three phase power necessary for the proposed renovations to lift station 8.

The installation of three phase power was part of the original scope of this bid solicitation, specifically included as part of line item 27, titled “Electrical and I&C”. To account for the preemptive installation and subsequent reduction in the scope of line item 27, please refer to the “Revised Electrical Plan Pages” included with this Addendum and incorporate the changes into your bid.

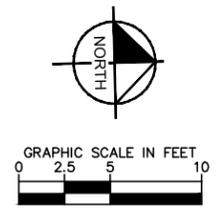
Note that this item does not affect Lift Station 16 in any way.

- The “Liability Insurance” section incorrectly lists a requirement for Builder’s Risk Insurance on page 16 of the RFB. Builder’s Risk Insurance is not listed in Section IV (“Certificate of Insurance”) and is not required for this bid.
- To clarify the information requested during the pre-bid meeting for sub-contractors, the City does not require necessary documentation (i.e. insurance, references, etc.) for trade subs. The complete information package is only required if a subcontractor may be utilized for General Contracting services.

Drawing name: K:\TAM Civil\148404 - City of St. Pete Beach\012 - Lift Station No. 8\CADD\PlanSheets\E-01 LS 8 SITE PLAN ADD 1 11-8-16.dwg E-01 LS 8 SITE PLAN Nov 08, 2016 2:35pm by: jordan.walker
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LOT 1 BLOCK C
 PB 38 PG 74



- GENERAL NOTES:**
- CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO BEGINNING CONSTRUCTION AND ORDERING EQUIPMENT. CONTRACTOR SHALL NOTIFY ENGINEER OF DISCREPANCIES.
 - CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING EQUIPMENT, UTILITIES, STRUCTURES, AND PERSONNEL FROM DAMAGE OR INJURY DURING CONSTRUCTION.
 - CONSTRUCTION SEQUENCE SHALL BE COORDINATED TO AVOID ANY PUMP STATION INTERRUPTION.
 - GENERAL NOTE 4 REMOVED FROM SET.
 - CONTRACTOR SHALL PROVIDE AND INSTALL #4 CU GROUNDING ELECTRODE CONDUCTORS, GROUND RODS AND GROUND TEST WELLS AS INDICATED ON SHEET E-3.3.
 - GENERAL NOTE 6 REMOVED FROM SET.
 - REFER TO CIVIL SITE PLANS FOR EXISTING UNDERGROUND UTILITIES.

- KEY NOTES**
- EXISTING LIFT STATION ELECTRICAL EQUIPMENT TO BE REMOVED BY OTHERS. NEW ELECTRICAL EQUIPMENT RACK TO BE INSTALLED BY OTHERS. REFER TO SHEET E-3.0 FOR FRONT AND REAR ELEVATIONS OF NEW ELECTRICAL EQUIPMENT RACK TO BE PROVIDED BY OTHERS AND NEW EQUIPMENT TO BE PROVIDED UNDER THIS CONTRACT.
 - EXISTING WET WELL TO BE MODIFIED. REFER TO CIVIL DRAWINGS.
 - KEYED NOTE 3 REMOVED FROM SET.
 - KEYED NOTE 4 REMOVED FROM SET.
 - REFER TO DETAILS AND ELEVATIONS FOR CONDUIT/CONDUCTORS REQUIRED TO NEW WET WELL.



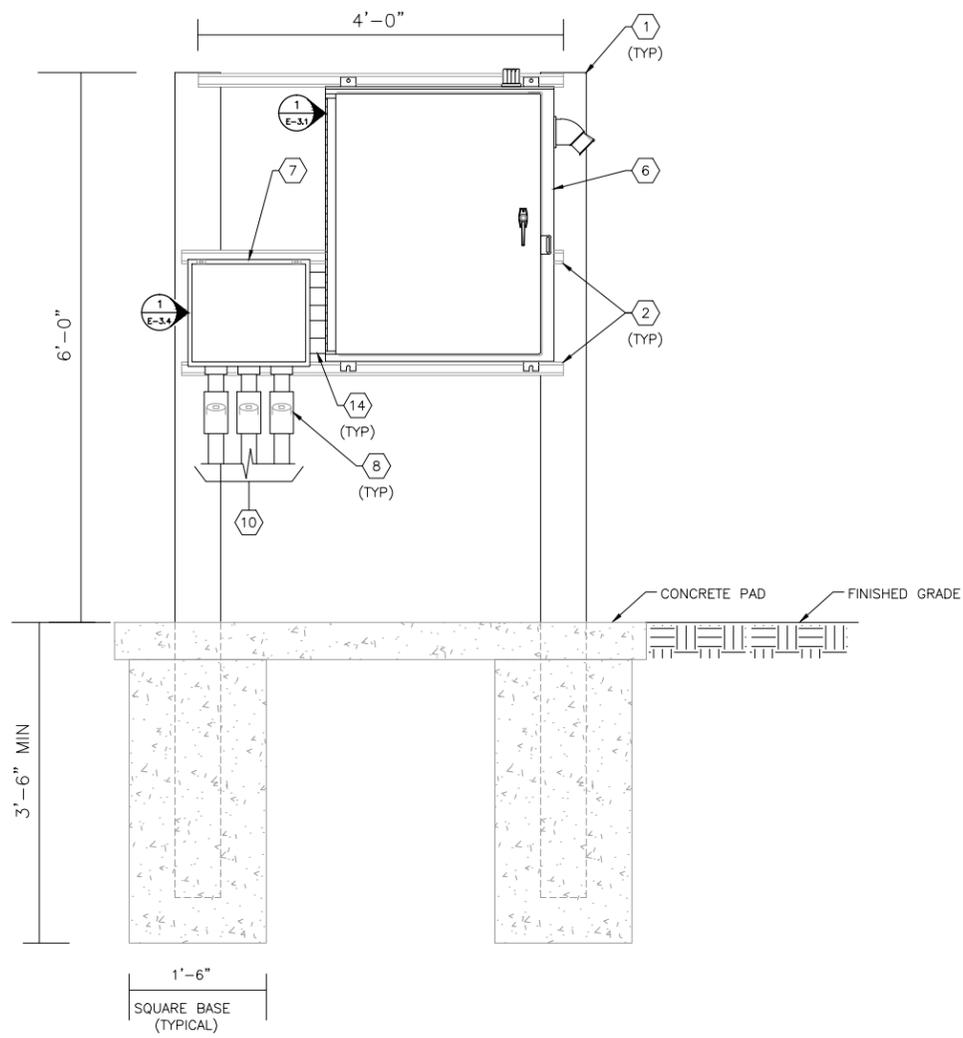
GROUNDWATER / DEWATERING NOTE:
 THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR THIS ISSUE. WHEN PERFORMING GRADING OPERATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.



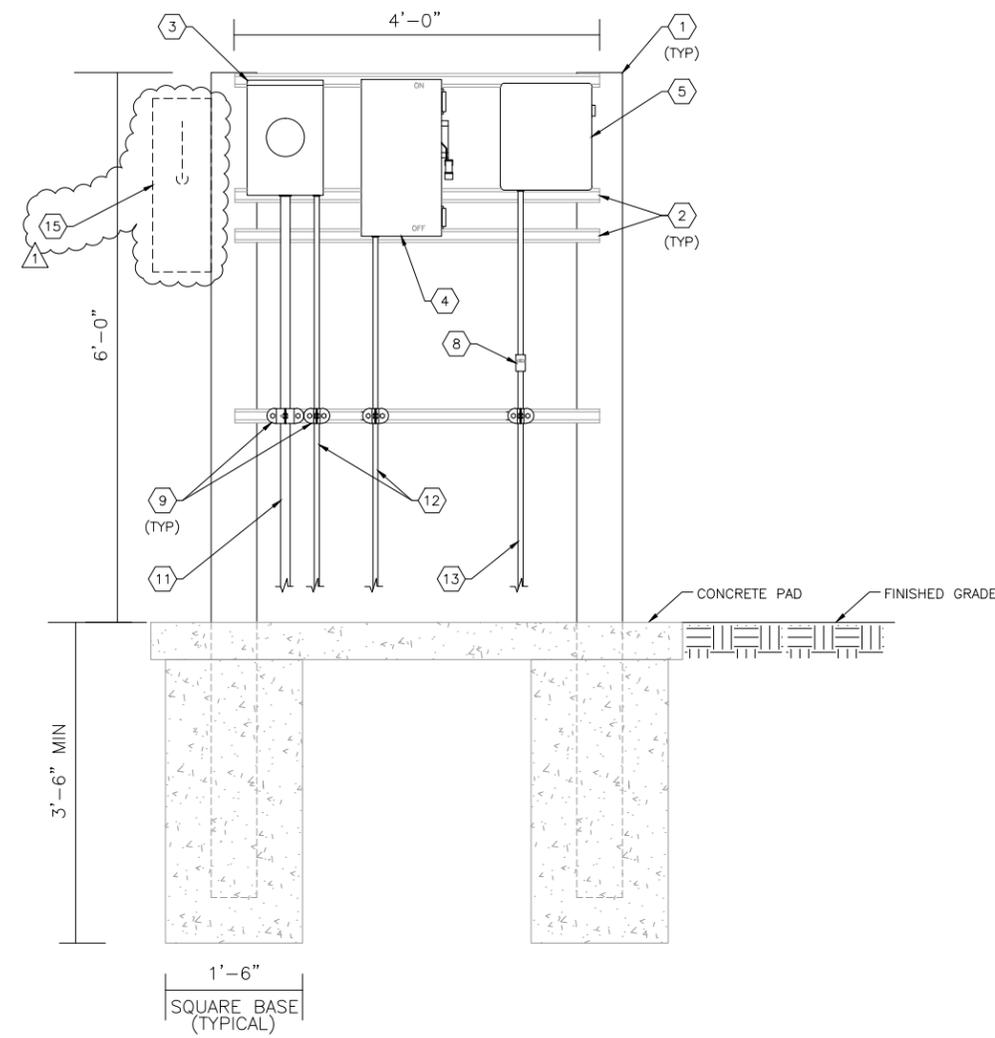
DESIGN ENGINEER: TIMOTHY THOMAS, P.E. FLORIDA REGISTRATION NUMBER: 47079		DATE: TDT	
SCALE AS NOTED	DESIGNED BY TDT	DRAWN BY JLH	CHECKED BY TDT
LIFT STATION NO. 8 ELECTRICAL SITE PLAN		FLORIDA	
CITY OF ST. PETE BEACH LIFT STATION NO. 8 REHABILITATION		PINELLAS COUNTY	
DATE NOVEMBER 2016		PROJECT NO. 148404012	
SHEET NUMBER E-0.1		REVISIONS	
		No.	DATE
		1	11-18-16 TDT

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 655 NORTH FRANKLIN STREET, SUITE 150, TAMPA, FL 33602
 PHONE: 813-620-1480
 WWW.KIMLEY-HORN.COM CA 00000696

Drawing name: C:\Users\jordan.walker\appdata\local\temp\AcPublish_13028\E-3.X.LS.DETAILS_ADD 11-8-16.dwg ELEVATIONS E-3.0 Nov 08, 2016 2:34pm by: Jordan Walker
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FRONT ELEVATION
 N.T.S. 1 E-3.0



REAR ELEVATION
 N.T.S. 2 E-3.0

- GENERAL NOTES:**
- CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO BEGINNING CONSTRUCTION AND ORDERING EQUIPMENT. CONTRACTOR SHALL NOTIFY ENGINEER OF DISCREPANCIES.
 - CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING EQUIPMENT, UTILITIES, STRUCTURES, AND PERSONNEL FROM DAMAGE OR INJURY DURING CONSTRUCTION.
 - CONSTRUCTION SEQUENCE SHALL BE COORDINATED TO AVOID ANY PUMP STATION INTERRUPTION.
 - NEW ELECTRICAL SERVICE SHALL BE 120/240V, 3Ø, 4-WIRE WITH 208V 'HIGH-LEG'. CONTRACTOR SHALL INSURE THAT 120V CIRCUITS TO BE PROVIDED ARE NOT SUPPLIED BY HIGH-LEG.
 - EQUIPMENT ELEVATIONS PRESENTED ARE FOR REFERENCE AS TYPICAL CONSTRUCTION REQUIRED. EQUIPMENT LAYOUT MAY BE MIRRORED, ROTATED OR OTHERWISE MANIPULATED AS REQUIRED TO ACCOMMODATE ANY CONDITIONS SPECIFIC TO THE INDIVIDUAL SITE.

- KEY NOTES**
- PROVIDE AND INSTALL 6" X 6" X 9' REINFORCED SQUARE CONCRETE POST. NOTE: CONCRETE POSTS SHALL BE INSTALLED BY OTHERS AT LIFT STATION NO. 8.
 - PROVIDE AND INSTALL 1-5/8" X 1-5/8" STAINLESS STEEL UNISTRUT WITH STAINLESS STEEL HARDWARE. NOTE: INSTALL ALL BOLTS FOR UNISTRUT COMPLETELY THROUGH CONCRETE POSTS. NOTE: UNISTRUT SHALL BE INSTALLED BY OTHERS AT LIFT STATION NO. 8. UNISTRUT LOCATIONS MAY NEED TO BE ADJUSTED OR NEW UNISTRUT ADDED TO ACCOMMODATE NEW EQUIPMENT PROPOSED AT LIFT STATION NO. 8.
 - PROVIDE AND INSTALL 60A, 240V, 3Ø NEMA 3R METER SOCKET. COORDINATE REQUIREMENTS ALL METER REQUIREMENTS WITH JOHN KRUSZONA OF DUKE ENERGY (727-893-9372). A 200A, 240V, 3Ø NEMA 3R METER SHALL BE INSTALLED BY OTHERS AT LIFT STATION NO. 8. THE CONTRACTOR SHALL REUSE THE EXISTING METER AT LIFT STATION NO. 8 TO ACCOMMODATE THE NEW 60A, 240V, 3Ø ELECTRICAL SERVICE AT LIFT STATION NO. 8.
 - PROVIDE AND INSTALL NEW 3-POLE, 60A, 240V, FUSIBLE DISCONNECT WITH SOLID NEUTRAL IN NEMA 4X STAINLESS STEEL ENCLOSURE. FUSE DISCONNECT AT 60 AMPERES WITH CLASS RK5 TIME DELAY FUSES. DISCONNECT SHALL BE SERVICE ENTRANCE RATED.
 - CONTRACTOR TO REUSE THE EXISTING PUMP WATCH MONITORING SYSTEM CURRENTLY LOCATED AT LIFT STATION NO. 16. REFER ALSO TO SPECIFICATIONS. THE CITY OF ST. PETE BEACH SHALL PROVIDE THE PUMP WATCH MONITORING SYSTEM TO THE CONTRACTOR FOR LIFT STATION NO. 8.
 - PROVIDE AND INSTALL NEW PUMP CONTROL CABINET. REFER ALSO TO DETAILS ON SHEET E-3.1.
 - PROVIDE AND INSTALL NEW 16" X 14" X 6" NEMA 4X STAINLESS STEEL WET WELL JUNCTION BOX.
 - PROVIDE AND INSTALL NEW EYS SEAL.
 - PROVIDE AND INSTALL STAINLESS STEEL CONDUIT CLAMPS WITH STAINLESS STEEL HARDWARE.
 - NEW 2" CONDUITS THAT CONTINUE TO WETWELL. REFER ALSO TO SHEET E-3.3.
 - PROVIDE AND INSTALL NEW 3-#6 THWN CU + 1-#6 THWN CU NEUTRAL IN 1-1/4" CONDUIT TO NEW DUKE ENERGY POLE-MOUNTED TRANSFORMERS. REFER ALSO TO SHEET E-0.1. THESE CONDUCTORS AND CONDUIT ARE NOT REQUIRED TO BE INSTALLED AT LIFT STATION NO. 8.
 - PROVIDE AND INSTALL #4 AWG BARE COPPER GROUNDING ELECTRODE CONDUCTOR TO GROUND GRID SYSTEM. THE GROUNDING ELECTRODE CONDUCTOR FOR THE METER AT LIFT STATION NO. 8 WILL BE INSTALLED BY OTHERS.
 - PROVIDE AND INSTALL LEVEL TRANSDUCER CABLE (TRANSDUCER CABLE TO BE SUPPLIED AS PART OF LEVEL TRANSDUCER) IN 1" CONDUIT TO WETWELL. REFER ALSO TO SHEET E-3.3.
 - NEW 2" CONDUITS FROM PUMP CONTROL CABINET TO WETWELL JUNCTION BOX.
 - AT LIFT STATION NO. 8, A TEMPORARY DISCONNECT TO SUPPLY A TEMPORARY BYPASS PUMP SHALL BE INSTALLED ON THE EXISTING RACK IN A LOCATION AS TO NOT INTERFERE WITH THE NEW CONSTRUCTION. THE REMOVAL OF THE TEMPORARY DISCONNECT SHALL BE BY OTHERS. THE CONTRACTOR FOR LIFT STATION NO. 8 SHALL COORDINATE THE NEW ELECTRICAL SERVICE WITH THE CITY AND THE TEMPORARY BYPASS PUMPING CONTRACTOR.

GROUNDWATER / DEWATERING NOTE:
 THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR THIS ISSUE. WHEN PERFORMING GRADING OPERATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.

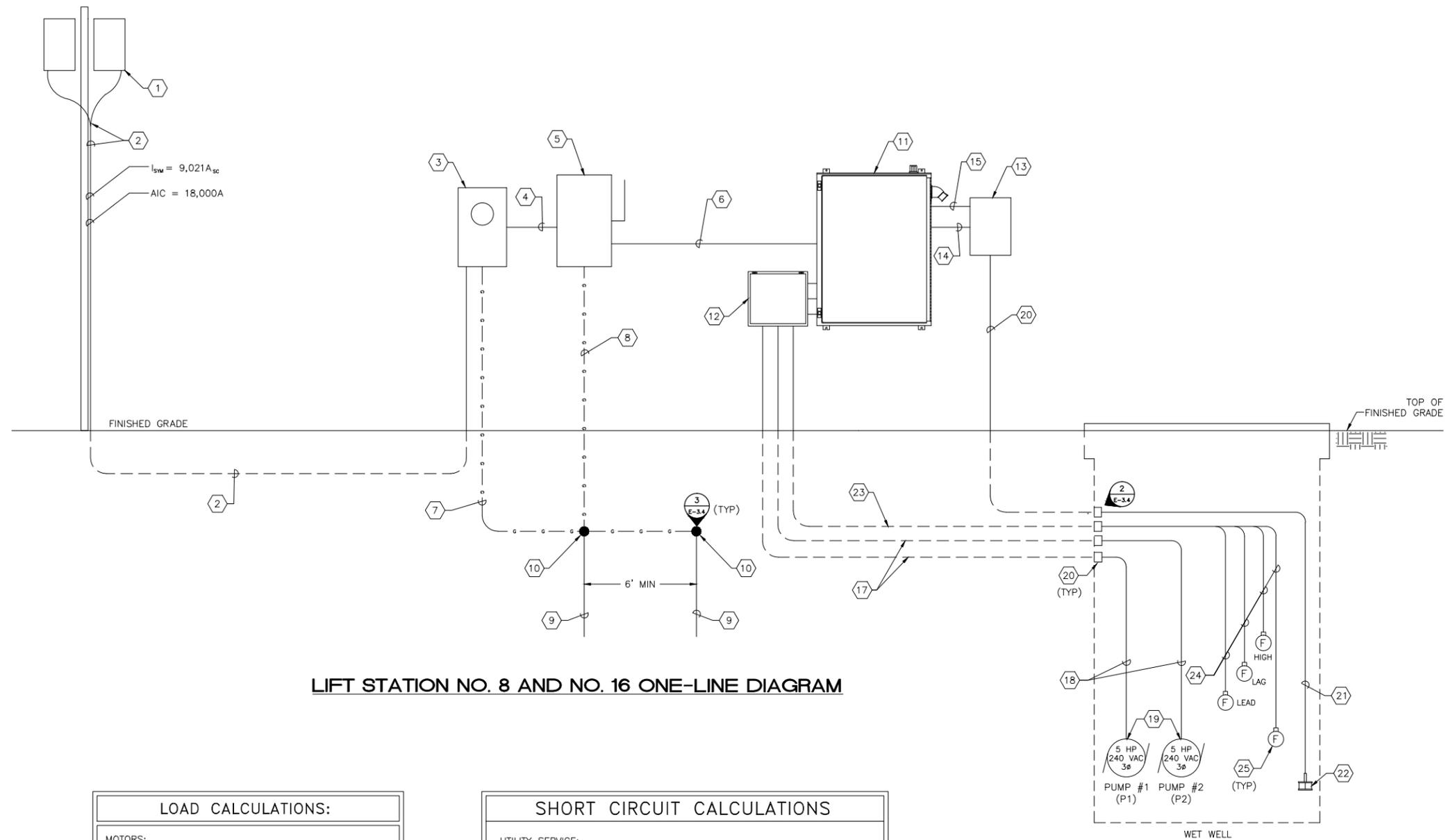
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777 S. Harbour Island Blvd., STE 200, TAMPA, FL 33602
 813.227.9190 FAX 813.227.9195
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DESIGN ENGINEER: TIMOTHY THOMAS, P.E. FLORIDA REGISTRATION NUMBER: 47079	SCALE: AS NOTED DESIGNED BY: TDT DRAWN BY: JLH CHECKED BY: TDT	DATE: DATE:
LIFT STATION ELECTRICAL RACK ELEVATIONS		
CITY OF ST. PETE BEACH LIFT STATION NO. 8 REHABILITATION		
PINELLAS COUNTY FLORIDA		
DATE: NOVEMBER 2016 PROJECT NO.: 148404012 SHEET NUMBER: E-3.0		
REVISIONS No. 1 APPENDIX 1 DATE: 11-18-16 TDT		

Drawing name: C:\Users\jordan.walker\appdata\local\temp\AcPublish_13028\E-3.X LS DETAILS ADD 1 11-8-16.dwg LS: 8 ONE-LINE E-3.3 Nov 08, 2016 2:34pm by: jordan.walker
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LIFT STATION NO. 8 AND NO. 16 ONE-LINE DIAGRAM

LOAD CALCULATIONS:	
MOTORS:	
PUMP NO. 1:	5.0 HP, 240 VAC, 3 Ø, 13.0 A
PUMP NO. 2:	5.0 HP, 240 VAC, 3 Ø, 13.0 A
MOTOR SUB-TOTAL	26.0 A
+ 25% OF LARGEST MOTOR	3.3 A
SUB-TOTAL	29.3 A
AUXILIARY EQUIPMENT	10.0 A
TOTAL MAXIMUM PHASE AMPERES	39.3 A
SERVICE SIZE:	
60 A, 240 VAC, 3 Ø, 4 - WIRE MINIMUM.	

SHORT CIRCUIT CALCULATIONS	
UTILITY SERVICE:	
120/240V, 3Ø, 4-WIRE, ELECTRICAL SERVICE. AVAILABLE FAULT CURRENT AT SECONDARY SIDE OF UTILITY TRANSFORMERS: 9,021 AMP RMS SYM. SERVICE CONDUCTOR LENGTH: 75 FEET #6 AWG COPPER SERVICE ENTRANCE	
ISCA AT THE SERVICE DISCONNECT:	
$ISCA = \left[\frac{1}{1 + \frac{(1.73)(75)(9,021)}{(1,940)(240)}} \right] \times (9,021)$	
ISCA = 2,567 AMPS RMS SYM.	
MAIN DISCONNECT FUSED WITH CLASS RK5, 200KAIC FUSES. ALL BREAKERS RATED GREATER THAN 10,000 AIC.	

- KEY NOTES**
- 1 NEW DUKE ENERGY TRANSFORMERS TO BE LOCATED ON EXISTING PRIMARY DISTRIBUTION POLE (120/240V, 3Ø, 4-WIRE DISTRIBUTION VOLTAGE). NO WORK REQUIRED FOR LIFT STATION NO. 8.
 - 2 PROVIDE AND INSTALL NEW 3-#6 THWN CU + 1-#6 THWN CU NEUTRAL IN 1-1/4" CONDUIT FROM NEW METER TO EXISTING DUKE ENERGY POWER DISTRIBUTION POLE. NOTE: CONTRACTOR SHALL INSTALL CONDUCTOR AND CONDUIT UP EXISTING POLE TO NEW DUKE ENERGY TRANSFORMERS. PROVIDE SLACK CONDUCTOR AT TOP OF POWER DISTRIBUTION POLE. COORDINATE ALL REQUIREMENTS WITH DUKE ENERGY (JOHN KRUSZONA 727-893-9372). THE ELECTRICAL SERVICE CONDUIT AND CONDUCTORS FOR LIFT STATION NO. 8 WILL BE INSTALLED BY OTHERS
 - 3 PROVIDE AND INSTALL 60A, 240V, 3Ø METER SOCKET. COORDINATE REQUIREMENTS ALL METER REQUIREMENTS WITH JOHN KRUSZONA OF DUKE ENERGY (727-893-9372). A 200A, 240V, 3Ø METER SOCKET WILL BE INSTALLED BY OTHERS AT LIFT STATION NO. 8. THE CONTRACTOR SHALL UTILIZE THE EXISTING METER FOR THE NEW 60A, 240V, 3Ø ELECTRICAL SERVICE AT LIFT STATION NO. 8.
 - 4 PROVIDE AND INSTALL 3-#6 THWN CU + 1-#6 THWN CU NEUTRAL IN 1-1/4" CONDUIT.
 - 5 PROVIDE AND INSTALL NEW 3-POLE, 60A, 240V, FUSIBLE DISCONNECT WITH SOLID NEUTRAL IN NEMA 4X STAINLESS STEEL ENCLOSURE. FUSE DISCONNECT AT 60 AMPERES WITH CLASS RK5 TIME DELAY FUSES. DISCONNECT SHALL BE SERVICE ENTRANCE RATED.
 - 6 PROVIDE AND INSTALL 3-#6 THWN CU + 1-#6 THWN CU NEUTRAL + 1-#8 CU GND IN 1-1/4" CONDUIT. INSTALL CONDUIT NIPPLE BETWEEN BACKSIDE OF DISCONNECT AND BACKSIDE OF PUMP CONTROL CABINET.
 - 7 PROVIDE AND INSTALL #4 CU GROUNDING ELECTRODE CONDUCTOR IN 3/4"C. COORDINATE REQUIREMENTS WITH DUKE ENERGY. NOTE: GROUND ELECTRODE CONDUCTOR FOR LIFT STATION NO. 8 SHALL BE INSTALLED BY OTHERS.
 - 8 PROVIDE AND INSTALL #4 CU GROUNDING ELECTRODE CONDUCTOR IN 3/4"C.
 - 9 PROVIDE AND INSTALL 5/8" X 20'-0" GROUNDING ELECTRODE.
 - 10 PROVIDE EXOTHERMIC WELD.
 - 11 PROVIDE AND INSTALL PUMP CONTROL CABINET. REFER TO DETAILS ON SHEET E-3.1.
 - 12 PROVIDE AND INSTALL NEW 16" X 14" X 6" NEMA 4X STAINLESS STEEL WETWELL JUNCTION BOX. REFER TO DETAIL ON SHEET E-3.4.
 - 13 CONTRACTOR TO REUSE THE EXISTING PUMP WATCH MONITORING SYSTEM CURRENTLY LOCATED AT LIFT STATION NO. 16. REFER ALSO TO SPECIFICATIONS. THE CITY OF ST. PETE BEACH SHALL PROVIDE THE PUMP WATCH MONITORING SYSTEM TO THE CONTRACTOR FOR LIFT STATION NO. 8.
 - 14 PROVIDE AND INSTALL 2-#12 THWN CU + 1-#12 THWN CU GND IN 3/4" CONDUIT FOR PUMP WATCH 120V POWER. INSTALL CONDUIT NIPPLE BETWEEN BACKSIDE OF PUMP CONTROL CABINET AND BACKSIDE OF PUMP WATCH CABINET.
 - 15 PROVIDE AND INSTALL 8-#12 THWN CU + 1-#12 THWN CU GND IN 3/4" CONDUIT FOR PUMP WATCH SIGNALS. INSTALL CONDUIT NIPPLE BETWEEN BACKSIDE OF PUMP CONTROL CABINET AND BACKSIDE OF PUMP WATCH CABINET.
 - 16 PROVIDE AND INSTALL LEVEL TRANSDUCER CABLE (TRANSDUCER CABLE TO BE SUPPLIED AS PART OF LEVEL TRANSDUCER) IN 1" CONDUIT TO WETWELL. REFER ALSO TO SHEET E-3.4.
 - 17 SUBMERSIBLE PUMP POWER CABLES: 3-#10 PHASE CONDUCTORS, 4-#14 FOR MOISTURE AND THERMAL DETECTION, 1-#10 GND. INSTALL IN 2"C. TO WET WELL. CABLE BY PUMP VENDOR.
 - 18 SUBMERSIBLE PUMP POWER CABLES: 3-#10 PHASE CONDUCTORS, 4-#14 FOR MOISTURE AND THERMAL DETECTION, 1-#10 GND. CABLE BY PUMP VENDOR.
 - 19 SUBMERSIBLE PUMP MOTOR. 5.0 HP 240 VOLTS, 3Ø, 16.0 FLA. MOTOR SHALL BE EQUIPPED WITH AN INTEGRALLY MOUNTED CONDUCTANCE PROBE TO INDICATE SEAL FAILURE.
 - 20 INSTALL 2/C-#18 SHIELDED CABLE FOR PRESSURE TRANSDUCER 4-20ma SIGNAL IN 1-1/4"C. CABLE BY TRANSDUCER MANUFACTURER.
 - 21 2/C-#18 SHIELDED CABLE FOR PRESSURE TRANSDUCER 4-20ma SIGNAL. CABLE BY TRANSDUCER MANUFACTURER.
 - 22 SUBMERSIBLE PRESSURE TRANSDUCER. REFER TO SPECIFICATIONS.
 - 23 INSTALL FOUR (4) :: 2/C-#14 FLOAT SWITCH CABLES IN 2"C. TO WET WELL. CABLES BY FLOAT SWITCH MANUFACTURER.
 - 24 2/C-#14 FLOAT SWITCH CABLES. CABLES BY FLOAT SWITCH MANUFACTURER.
 - 25 PROVIDE AND INSTALL LEVEL FLOAT. REFER TO SPECIFICATIONS.

GROUNDWATER / DEWATERING NOTE:
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