

CITY OF PORT ST. LUCIE UTILITY SYSTEMS DEPARTMENT LIFT STATION SP-16

Attachment D

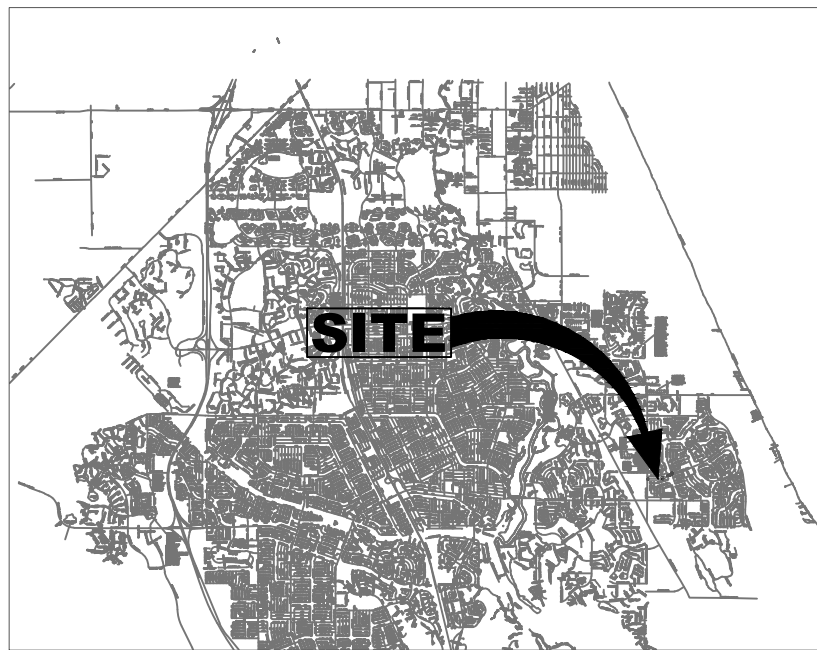


PREPARED BY

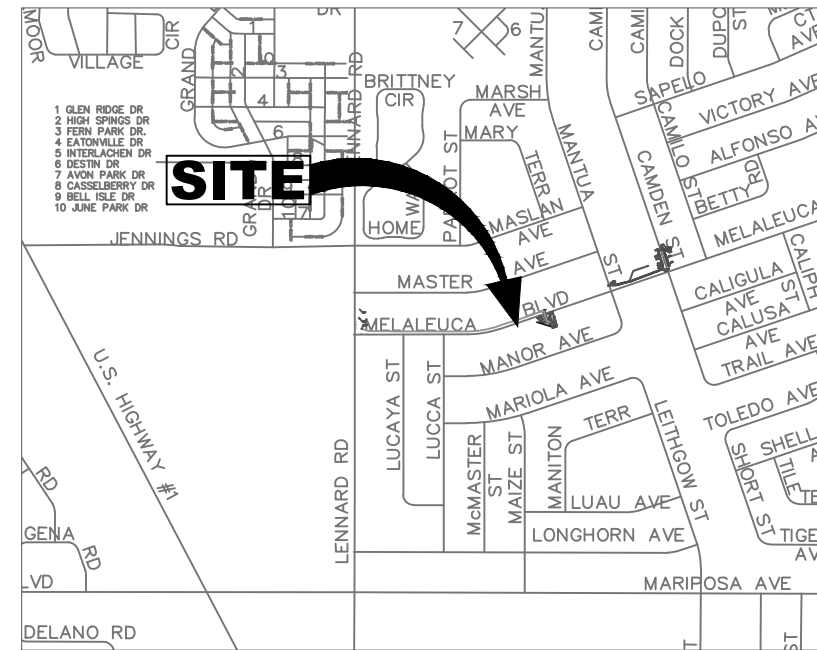
CITY OF PORT ST. LUCIE
UTILITY SYSTEMS DEPARTMENT
900 S.E. OGDEN LANE
PORT ST. LUCIE, FL 34983
PHONE (772) 873-6400
FAX (772) 873-6433

DECEMBER 1, 2020 BID PLANS

BRAD MACEK DIRECTOR



VICINITY MAP
NOT TO SCALE



LOCATION MAP

DRAWING INDEX

1. COVER
2. EXISTING CONDITIONS
3. SITE AND PIPING PLAN
4. DEMOLITION PLAN
5. LOW PRESSURE MAIN
6. SITE PLAN DETAILS
7. FIBER OPTIC PLAN
8. SECTION AND DETAILS
9. BIOFILTER DETAILS
10. UTILITY DETAILS
11. UTILITY DETAILS
12. SOFT START WITH FIBER
13. SOFT START WITH FIBER
14. SOFT START WITH FIBER
15. SOFT START WITH FIBER
16. SOFT START WITH FIBER
17. SOFT START WITH FIBER
18. CONTROL PANEL DETAILS
19. CONTROL PANEL DETAILS
20. CONTROL PANEL DETAILS
21. CONTROL PANEL DETAILS

ENGINEER OF RECORD

DAVID B. GARLAND, P.E.
CITY OF PORT ST. LUCIE
UTILITY SYSTEMS DEPARTMENT
900 S.E. OGDEN LANE
PORT ST. LUCIE, FL 34983
PHONE (772) 873-6400
FAX (772) 873-6433

PSLUSD PROJECT# 33-3016

ISSUE DATE 12-01-2020

SHEET DATA	
DESIGNED	DATE
DRAWN	BY
CHECKED	
APPROVED	
CAD FILE NAME	

CALL OR VISIT OUR WEBSITE
FOR THE LATEST NEWS AND
PROJECTS. VISIT US AT
WWW.CITYOFPORTSTLUCIE.COM
OR VISIT US AT
900 S.E. OGDEN LANE
PORT ST. LUCIE, FL 34983
PHONE (772) 873-6400 FAX (772) 873-6433

CITY OF PORT ST. LUCIE
UTILITY SYSTEMS DEPARTMENT
900 S.E. OGDEN LANE
PORT ST. LUCIE, FL 34983
PHONE (772) 873-6400 FAX (772) 873-6433



SOUTHPORT LIFT STATION
SP 16 REPLACEMENT
CONSTRUCTION DRAWINGS

KNOW WHAT'S BELOW
ALWAYS CALL 811
BEFORE YOU DIG
It's that's the way to stay safe.
www.call811.com
DAVID B. GARLAND
P.E. # 68947



1548

REVISIONS		SHEET DATA	
BY	DATE	DESIGNED	BY
		DRAWN	
		CHECKED	
		APPROVED	
		CAD FILE NAME	

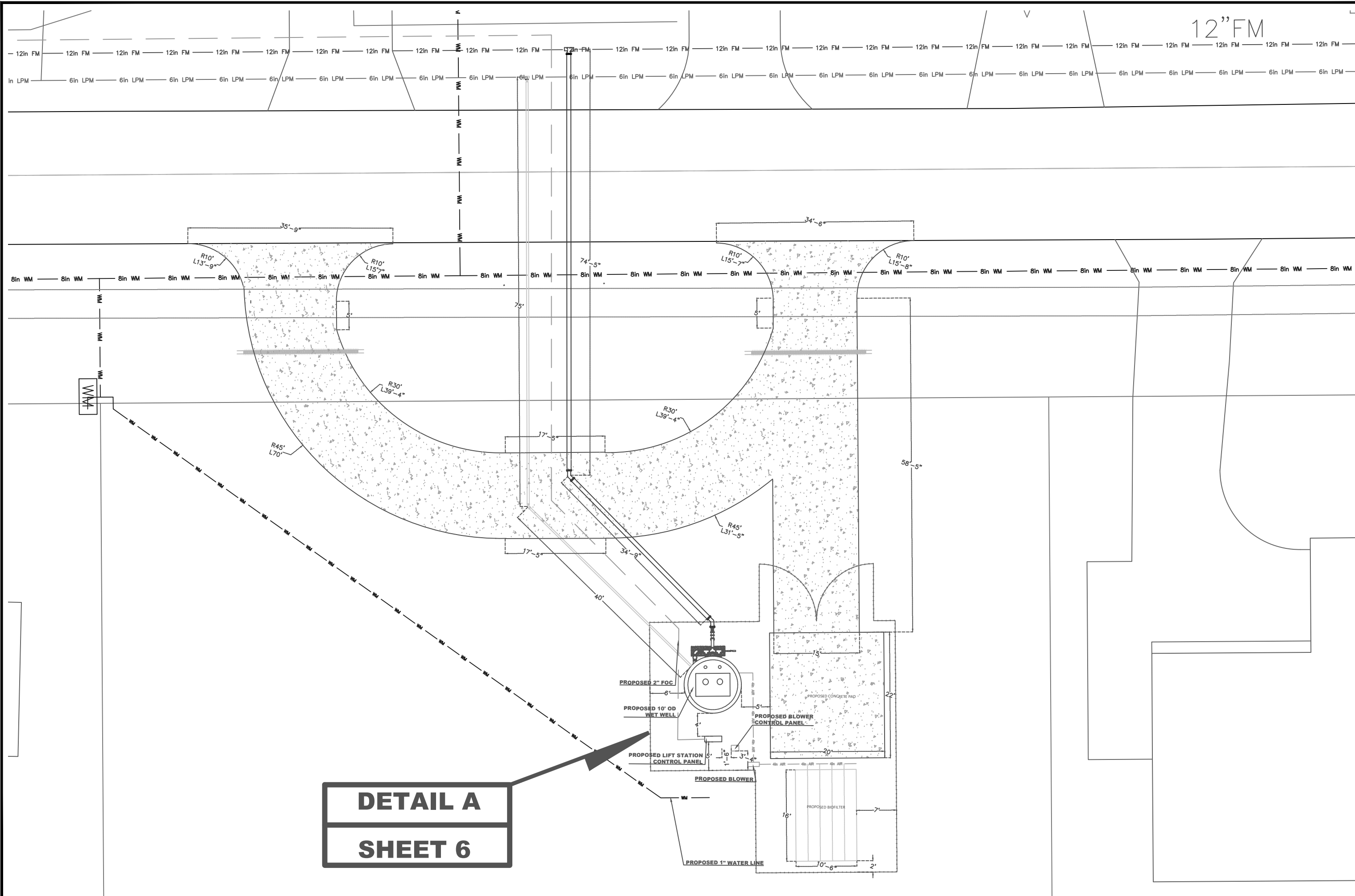
CALL OR VISIT OUR WEBSITE
 WWW.CALL811.COM
 IT'S THE SAFE WAY
 TO FIND ALL UTILITIES
 BEFORE YOU DIG!
 811
 A DIVISION OF FLORIDA 811
 SERVICE CORPORATION
 1000 N.W. 10TH AVENUE, SUITE 200
 MIAMI, FL 33136
 PHONE (305) 487-8111
 TOLL FREE (800) 887-8111
 FAX (305) 487-8112

CITY OF PORT ST. LUCIE
UTILITY SYSTEMS DEPARTMENT
900 S.E. OGDEN LANE
PORT ST. LUCIE, FL 34983
 PHONE (772) 873-6400 FAX (772) 873-6433



SOUTHPORT LIFT STATION
SP 16 REPLACEMENT
EXISTING CONDITIONS

KNOW WHAT'S BELOW
 ALWAYS CALL 811
 BEFORE YOU DIG
 It's the safe way to find it all.
 www.call811.com
DAVID B. GARLAND
 P.E. # 65647



DETAIL A
SHEET 6

12" FM

SHEET DATA	
BY	DATE
DESIGNED	
DRAWN	
CHECKED	
APPROVED	
CAD FILE NAME	

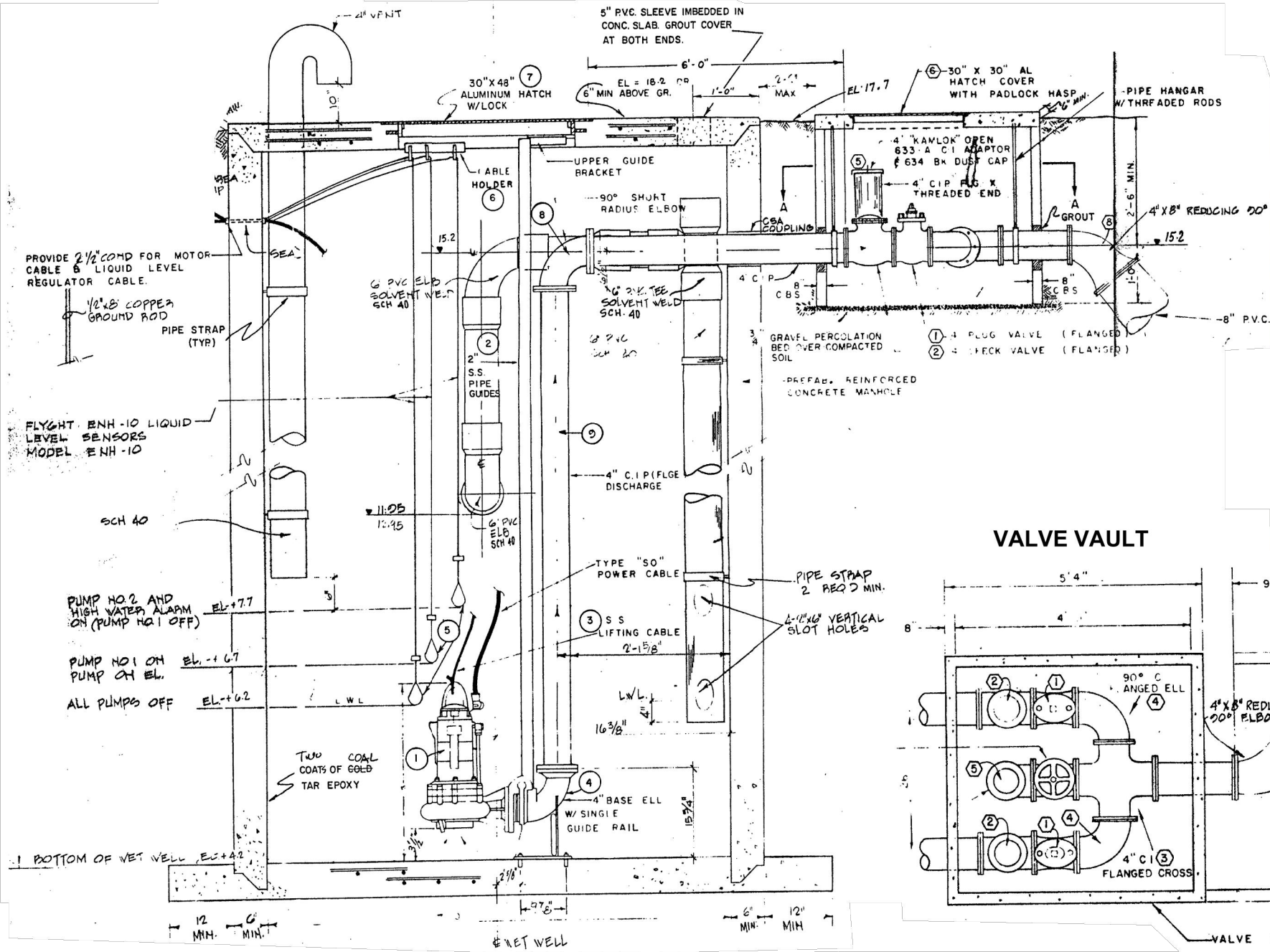
CALL OUT TO SHEET
IF THE LINE IS
NOT IN THIS SHEET
OR IF THE LINE IS
NOT IN THIS SHEET
OR IF THE LINE IS
NOT IN THIS SHEET
OR IF THE LINE IS
NOT IN THIS SHEET

CITY OF PORT ST. LUCIE
UTILITY SYSTEMS DEPARTMENT
900 S.E. OGDEN LANE
PORT ST. LUCIE, FL 34983
PHONE (772) 873-6400 FAX (772) 873-6433

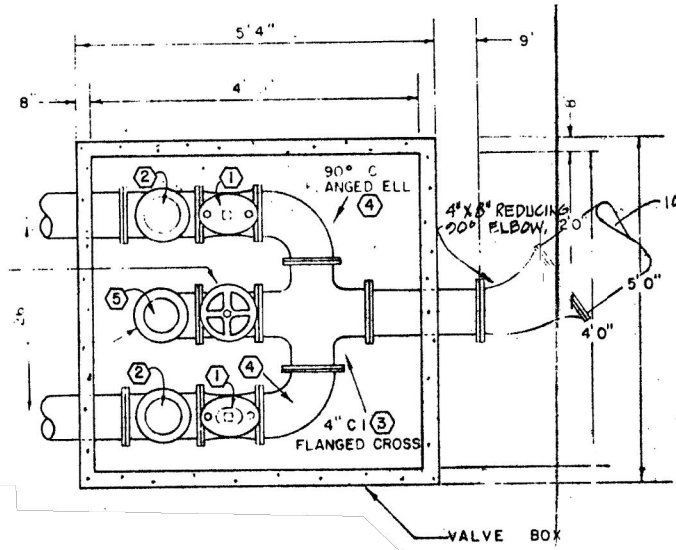


SOUTHPORT LIFT STATION
SP 16 REPLACEMENT
SITE AND PIPING PLAN

KNOW WHAT'S BELOW
ALWAYS CALL 811
BEFORE YOU DIG
It's that's free. It's so easy.
www.call811.com
811
DAVID B. GARLAND
P.E. # 65947



VALVE VAULT

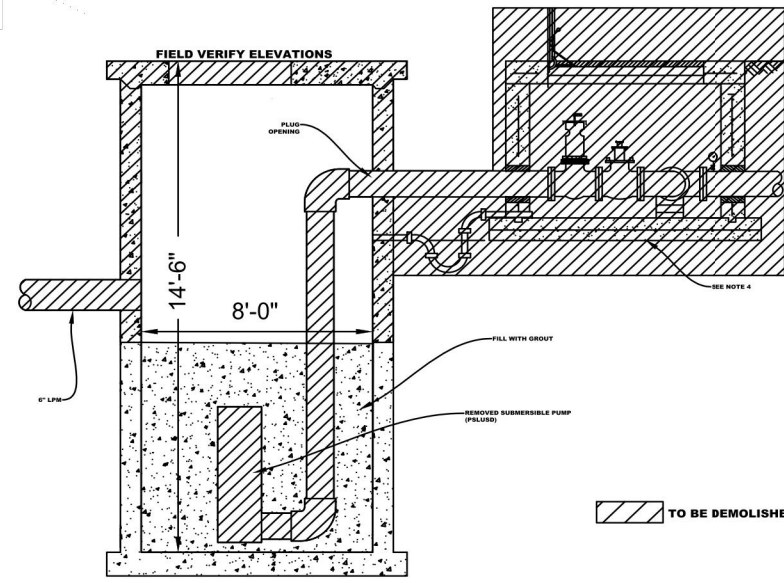
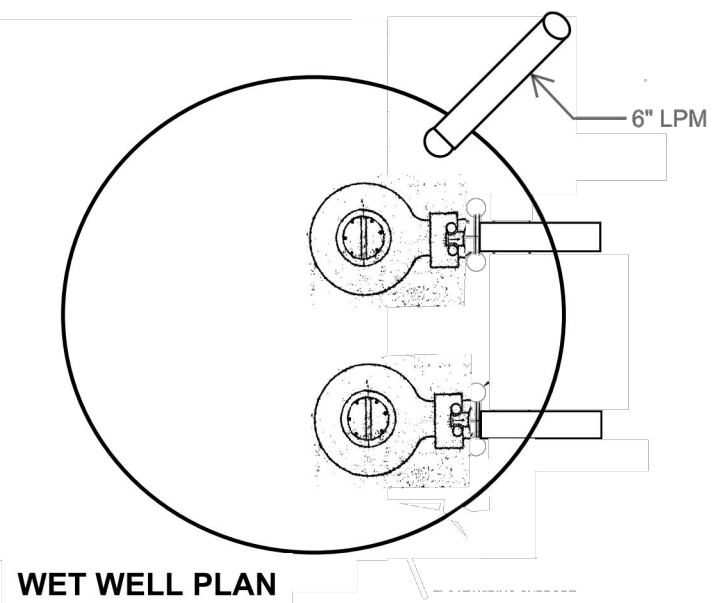


EXISTING CONTROL PANEL, WET WELL SLAB AND VALVE VAULT

DEMOLITION

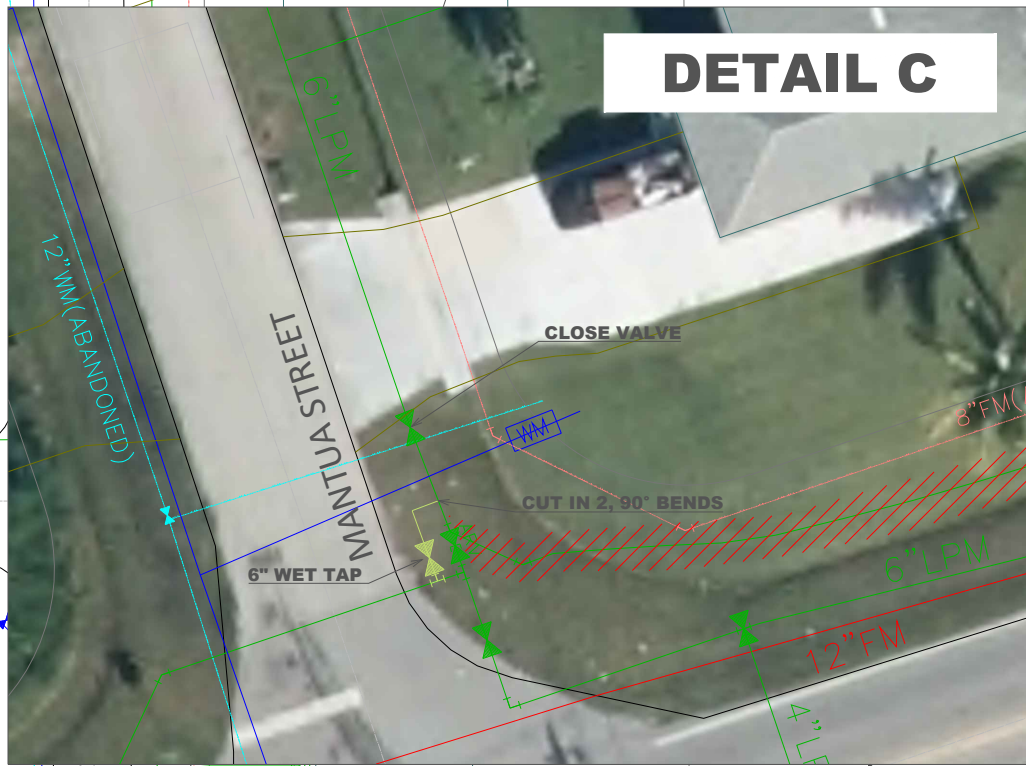
NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER DISPOSAL OF ANY AND ALL WASTE PRODUCED DURING DEMOLITION OF THE EXISTING LIFT STATION AND SUBSEQUENT CONSTRUCTION OF THE NEW LIFT STATION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND REMOVAL OF EXISTING DRIVEWAY WITHIN THE LIMITS OF CONSTRUCTION AS SHOWN.
3. EXISTING LIFT STATION & FORCEMAIN SHALL REMAIN IN OPERATION DURING CONSTRUCTION OF NEW LIFT STATION AND REMAIN IN OPERATION UNTIL REPLACEMENT LIFT STATION IS COMPLETE, TESTED, APPROVED, AND CERTIFIED BY PSLUSD. IN ADDITION, AT ANY TIME THE EXISTING LIFT STATION IS TAKEN OUT OF SERVICE FOR CONNECTION OF THE NEW LIFT STATION TO THE EXISTING FORCE MAIN OR GRAVITY SEWER, THE CONTRACTOR SHALL PROVIDE AN ALTERNATE BYPASS SYSTEM AS PART OF THE BID PACKAGE.
4. DEMOLITION OF EXISTING VALVE VAULT SHALL INVOLVE THE REMOVAL AND PROPER DISPOSAL OF ALL MATERIALS AND EQUIPMENT CONTAINED WITHIN LIFT STATION FENCED ENCLOSURE, DEMOLITION OF THE STRUCTURAL COMPONENTS TO A DEPTH OF NO LESS THAN 7' BELOW EXISTING GRADE, PUNCHING HOLES IN BOTTOM OF THE VALVE VAULT AND FILLING OF EXISTING VALVE VAULT WITH SUITABLE MATERIAL AND THE REMOVAL AND PROPER DISPOSAL OF ALL VACATED PORTIONS OF GRAVITY SEWER AND FORCE MAIN, AND REQUIRES ALL DISTURBED AREAS TO BE GRADED, AND PREPARED FOR SOD TO BE PROVIDED BY THE CITY'S LANDSCAPER.
5. ALL REMOVED MATERIAL SHALL BE DISPOSED OF PROPERLY ACCORDING TO ALL APPLICABLE REGULATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF ANY DAMAGED UTILITIES.
6. THE CONTRACTOR SHALL SUBMIT A DEMOLITION PLAN NO LATER THAN 30 DAYS FROM THE NOTICE TO PROCEED ISSUED BY THE CITY. THE DEMOLITION PLAN SHALL BE COMPREHENSIVE OF PROTECTING ALL UTILITIES SHOWN AND NOT SHOWN ON THE PLANS. THE PLAN SHALL INCLUDE METHODS TO BYPASS OR KEEP THE EXISTING LIFT STATION IN OPERATION.

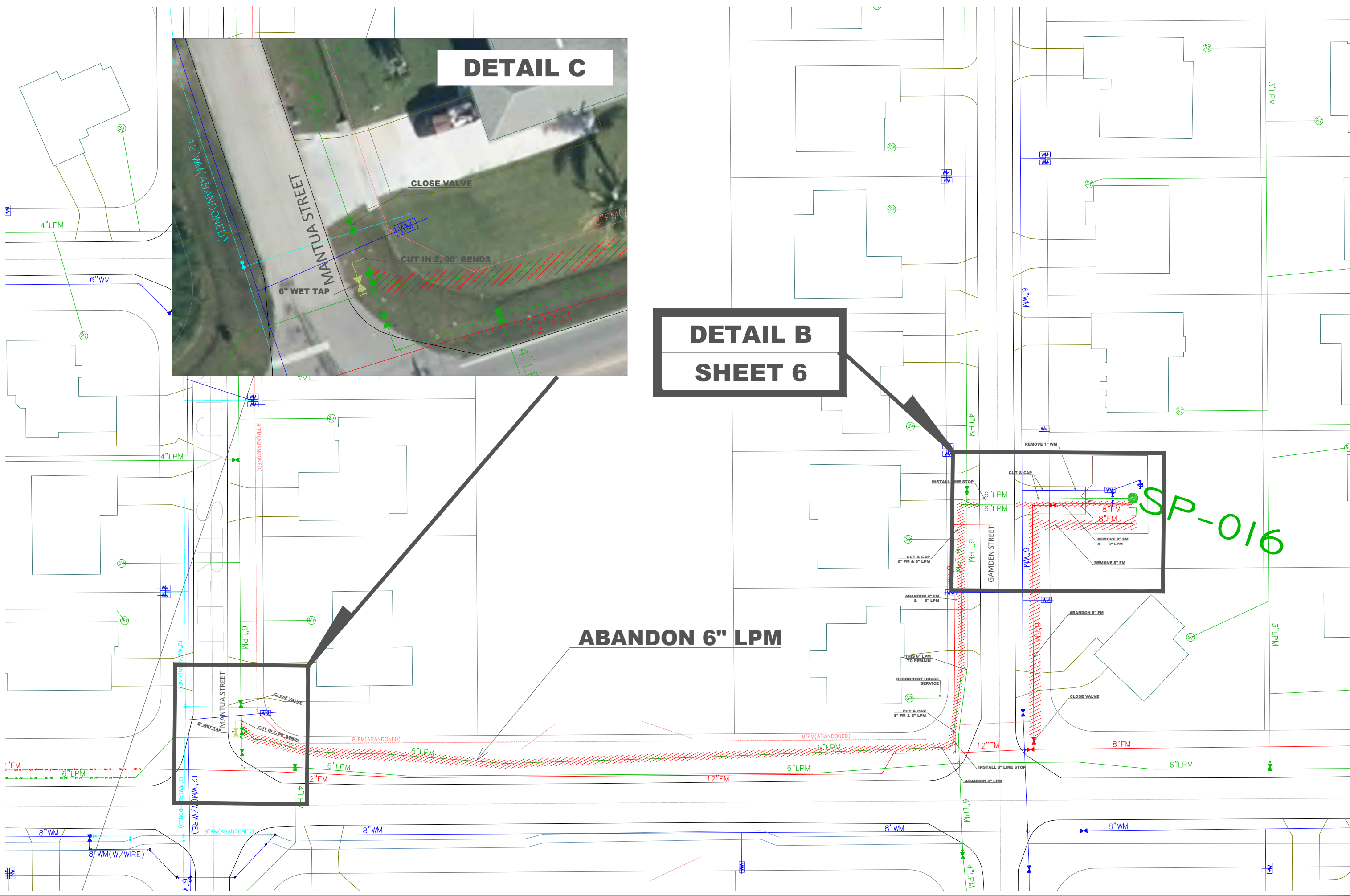


EXISTING WETWELL AND VALVE PIT ~ SECTION VIEW NOT TO SCALE

REVISIONS	BY	DATE
	DESIGNED	
SHEET DATA	BY	DATE
	DESIGNED	
CITY OF PORT ST. LUCIE	UTILITY SYSTEMS DEPARTMENT	
	900 S.E. OGDEN LANE	
PHONE (772) 873-6400 FAX (772) 873-6433		
LIFT STATION SP-16 REPLACEMENT	LIFT STATION	
	DEMOLITION PLAN	
DAVID B. GARLAND	P.E. # 65067	
SHEET		
4		



**DETAIL B
SHEET 6**



SP-016

ABANDON 6" LPM

SHEET DATA	
BY	DATE
DESIGNED	
DRAWN	
CHECKED	
APPROVED	
CAD FILE NAME	

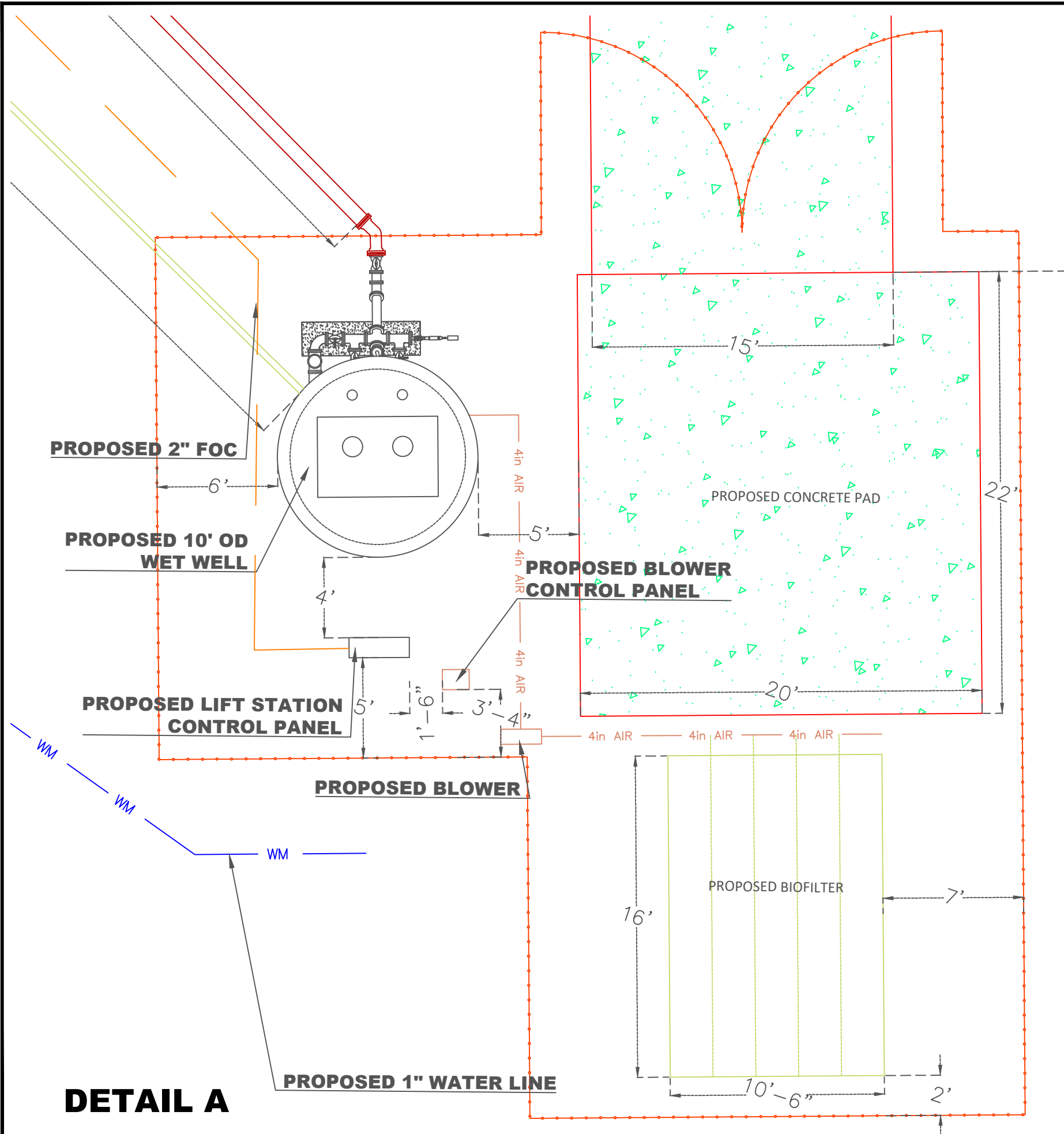
**CITY OF PORT ST. LUCIE
UTILITY SYSTEMS DEPARTMENT
900 S.E. OGDEN LANE
PORT ST. LUCIE, FL 34983
PHONE (772) 873-6400 FAX (772) 873-6433**



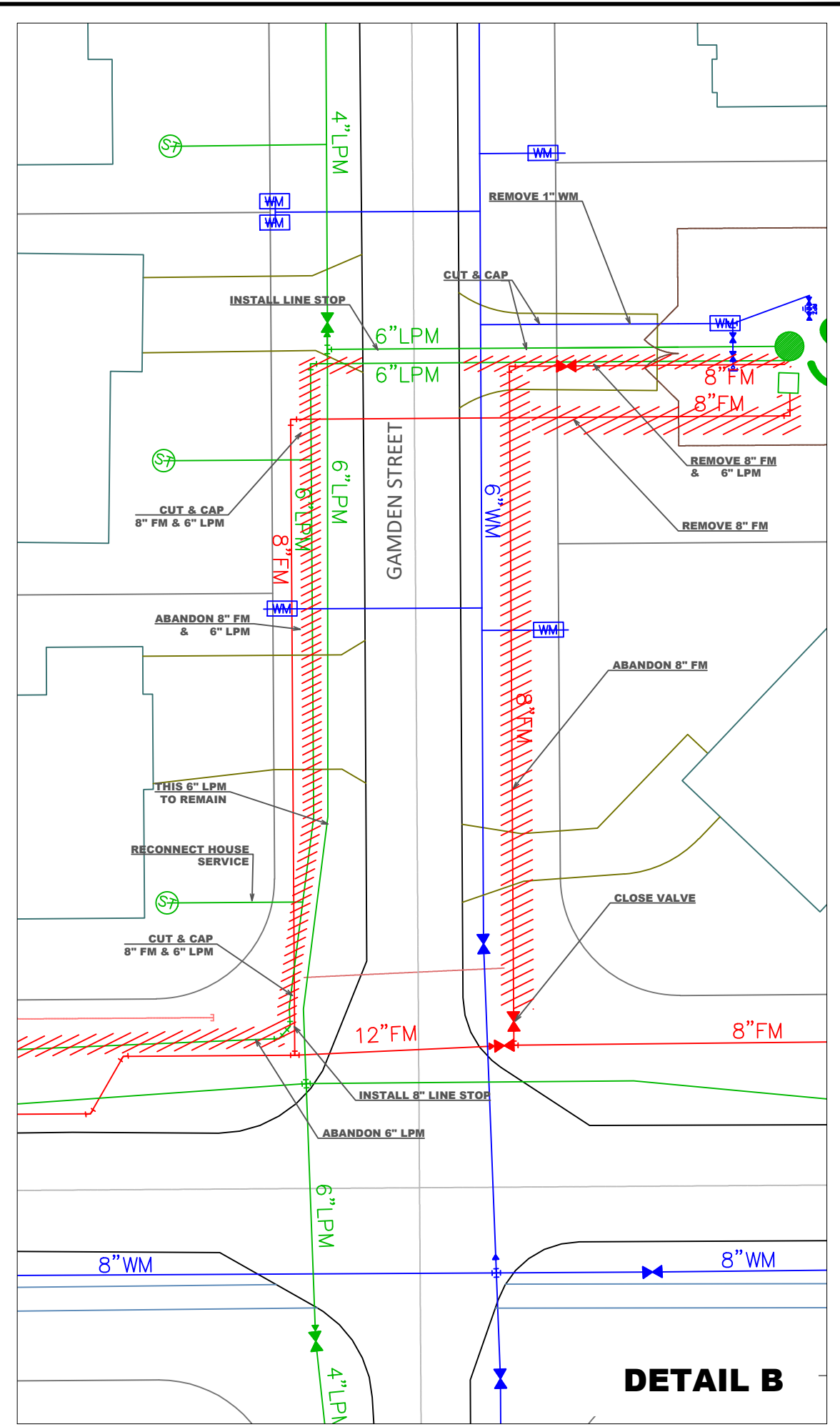
**SOUTHPORT LIFT STATION
SP 16 REPLACEMENT
FIBER OPTIC PLAN**

KNOW WHAT'S BELOW
ALWAYS CALL 811
BEFORE YOU DIG
www.call811.com

811
DAVID B. GARLAND
P.E. # 65047



DETAIL A



DETAIL B

SHEET DATA	
DESIGNED	DATE
DRAWN	BY
CHECKED	DATE
APPROVED	BY
CAD FILE NAME	DATE

CALL OR VISIT OUR WEBSITE AT www.portstlucie.com FOR MORE INFORMATION. ALL UTILITIES SHOWN ARE BASED ON RECORD DRAWINGS AND FIELD SURVEY. THE CITY OF PORT ST. LUCIE IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS. THE USER SHALL BE RESPONSIBLE FOR VERIFYING ALL INFORMATION AND CONDITIONS PRIOR TO CONSTRUCTION.

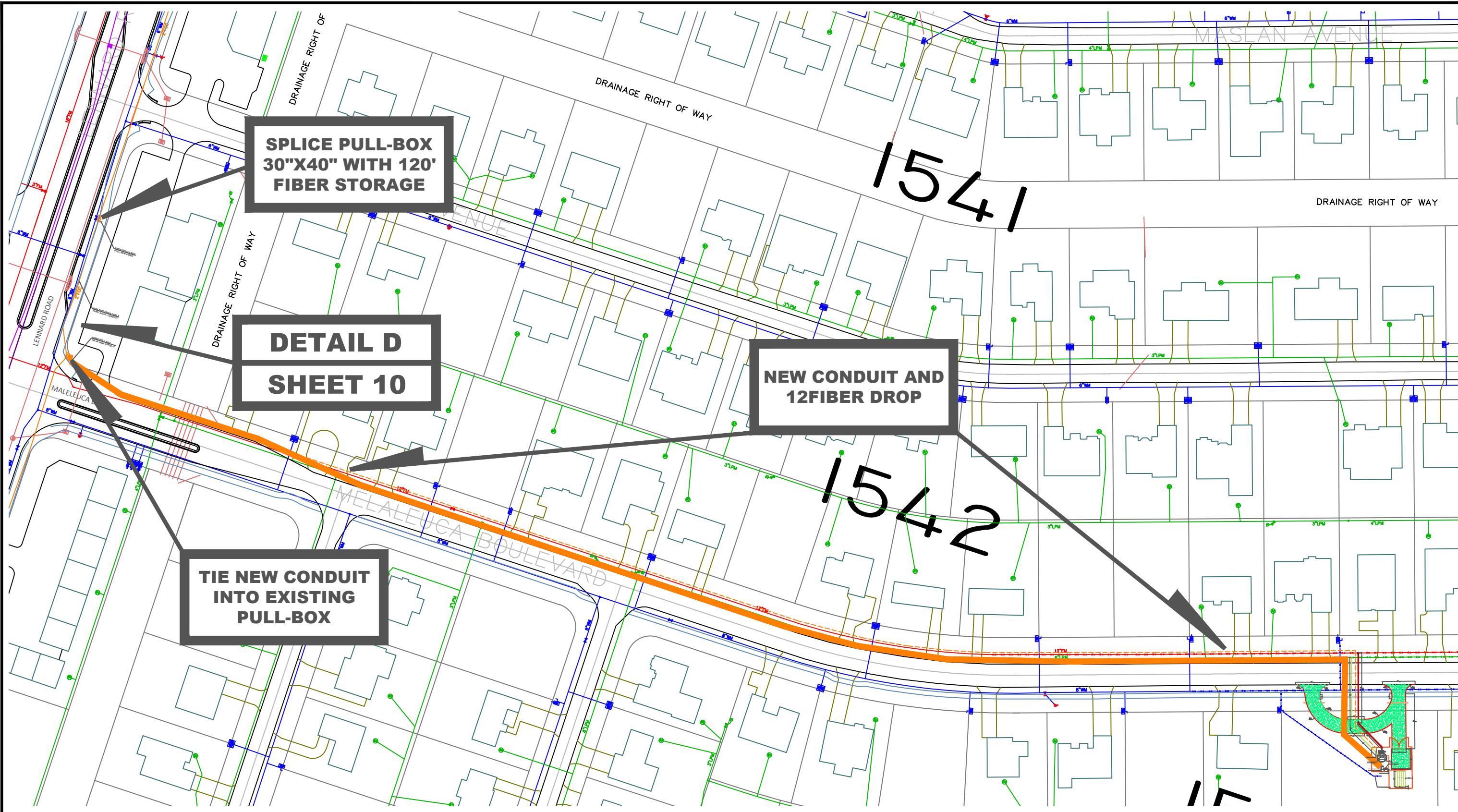
CITY OF PORT ST. LUCIE
UTILITY SYSTEMS DEPARTMENT
 900 S.E. OGDEN LANE
 PORT ST. LUCIE, FL 34983
 PHONE (772) 873-6400 FAX (772) 873-6433



SOUTHPORT LIFT STATION
SP 16 REPLACEMENT
SITE PLAN DETAILS

KNOW WHAT'S BELOW
 ALWAYS CALL 811
 BEFORE YOU DIG
 It's free. It's fast. It's safe.
www.call811.com

DAVID B. GARLAND
 P.E. # 68947



**SPLICE PULL-BOX
30"X40" WITH 120'
FIBER STORAGE**

**DETAIL D
SHEET 10**

**NEW CONDUIT AND
12FIBER DROP**

**TIE NEW CONDUIT
INTO EXISTING
PULL-BOX**

SHEET DATA	
BY	DATE
DESIGNED	
DRAWN	
CHECKED	
APPROVED	
CAD FILE NAME	

CALL OR VISIT OUR WEBSITE
FOR MORE INFORMATION
IT'S THE WAY WE LIVE
NOW IN FLORIDA
SOUTHPORT LIFT STATION
SP 16 REPLACEMENT
FIBER OPTIC PLAN
P.E. # 65947

**CITY OF PORT ST. LUCIE
UTILITY SYSTEMS DEPARTMENT
900 S.E. OGDEN LANE
PORT ST. LUCIE, FL 34983
PHONE (772) 873-6400 FAX (772) 873-6433**



**SOUTHPORT LIFT STATION
SP 16 REPLACEMENT
FIBER OPTIC PLAN**

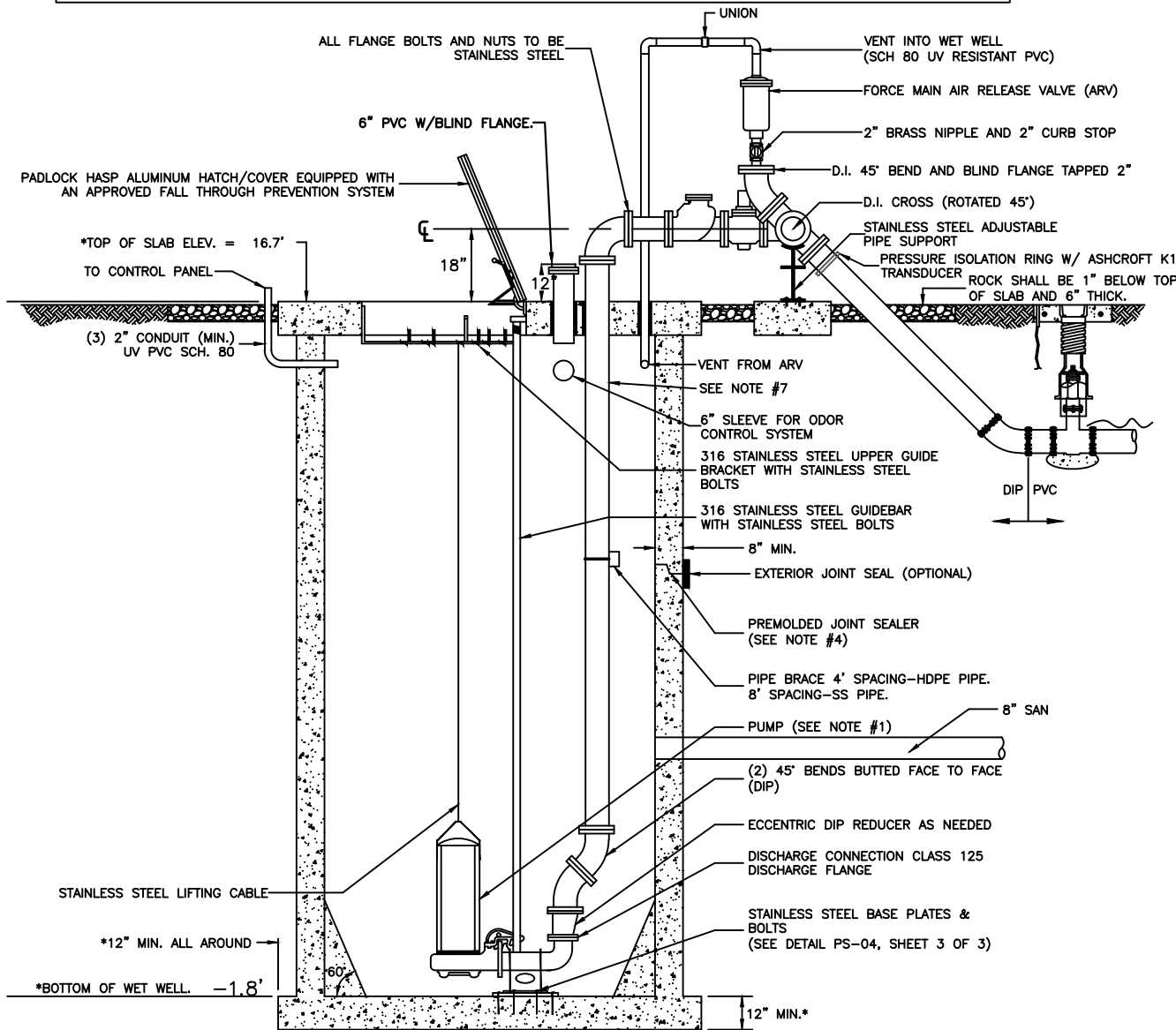
KNOW WHAT'S BELOW
ALWAYS CALL 811
BEFORE YOU DIG
It's the way we live. It's the way we work.
www.call811.com
811
DAVID B. GARLAND
P.E. # 65947

PUMP DATA:

MANUFACTURER ** FLYGT PUMP WETWELL DIAMETER **8'-0"
 MODEL NUMBER ** NP3153 IMPELLER NUMBER ** 464 HP **15 RPM ** 1750
 VOLTS ** 460 3 PHASE 60 HERTZ

OPERATING CONDITIONS:

** 360 GPM AT **80' TDH **55 % EFFICIENCY
 SIZED FOR MINIMUM PUMP CYCLE TIME OF 12 MINUTES AND A MAXIMUM OF 6 PUMP STARTS PER HOUR.
 WORKING DEPTH **3.0 FT. WORKING VOLUME **1,128 GALS.

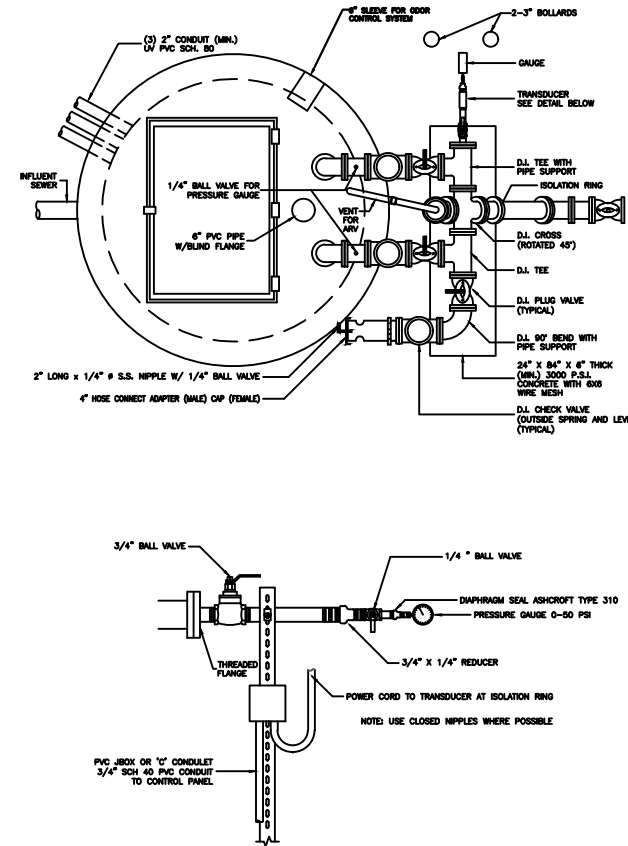


- NOTES:**
- *THE DESIGN SPECIFICATIONS FOR THE WET WELL, PUMPS, CONTROL ELEVATIONS AND DISCHARGE PIPING SHALL BE AS SPECIFIED BY THE ENGINEER—OF—RECORD, IN ACCORDANCE WITH THE PSLUSD UTILITY STANDARDS.
 - WET WELL INTERIOR WALLS SHALL BE PROTECTED WITH A LINER. THE WET—WELL EXTERIOR SHALL BE COATED WITH A PRIMER AND 2 COATS OF A WATER BASED EPOXY 3—5 MILS EACH; APPLICATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
 - A FLOAT SHALL BE PROVIDED FOR ALARM AND TO CONTROL BACKUP RELAY SYSTEM FOR THE PUMPS.
 - ALL OPENINGS FOR PIPES AND CONDUITS SHALL BE PRECAST. ALL JOINTS AND TOP SLAB SHALL BE SEALED WITH AN APPROVED SEALANT (SEE DETAIL). THE SPACE BETWEEN THE DISCHARGE PIPES AND THE TOP SLAB SHALL BE FILLED WITH WATERPROOF NON—SHRINKING GROUT.
 - THE INFLUENT PIPE DETAIL SHOWN ABOVE IS FOR A GRAVITY SEWER. FOR FORCE MAINS FROM A LIFT STATION OR LOW PRESSURE SEWER SYSTEM, A TEE SHALL BE INSTALLED AS SHOWN WITH DASHED LINE.
 - ONE PUMP SHALL BE EQUIPPED WITH A MIX—FLUSH VALVE.
 - THE DISCHARGE PIPE SHALL BE SCH—40 STAINLESS STEEL OR DR—11 HDPE PIPE TO THE FLANGE ABOVE THE GROUND.
 - ALL HARDWARE SHALL BE 316 STAINLESS STEEL AND ALL BOLTS AND NUTS SHALL BE 304 STAINLESS STEEL.

MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE
 900 S.E. OGDEN LANE
 PORT ST. LUCIE, FL 34983
 PHONE (772) 873-6400 FAX (772) 873-6433

LIFT STATION WET WELL SECTION

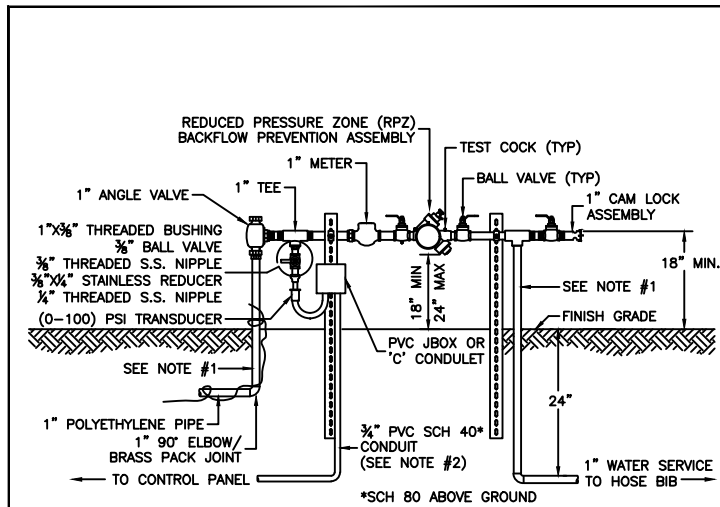
DETAIL: PS-04
DATE: 2019
SCALE: N.T.S.
SHEET: 1 OF 3



MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE
 900 S.E. OGDEN LANE
 PORT ST. LUCIE, FL 34983
 PHONE (772) 873-6400 FAX (772) 873-6433

LIFT STATION WET WELL PLAN VIEW

DETAIL: PS-04
 DATE: 2019
 SCALE: N.T.S.
 SHEET: 2 OF 3



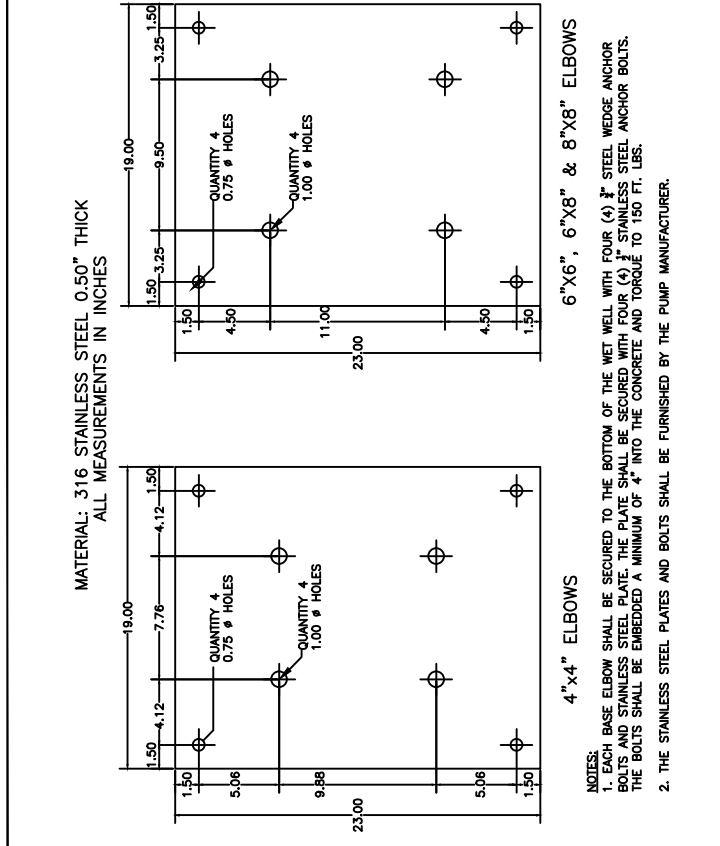
WATER MAIN PRESSURE TRANSDUCER INSTALLATION DETAIL

- NOTES:**
- BOTH RISERS SHALL BE BRASS OR TYPE "K" COPPER TUBING (HARD DRAW) WITH COPPER / BRASS FITTINGS AND ADAPTERS (NO CRIMPING JOINTS).
 - A 16 GAUGE STP CABLE SHALL BE INSTALLED IN THE CONDUIT FROM THE PRESSURE TRANSDUCER TO THE CONTROL PANEL WITH 15' OF CABLE COILED IN THE PANEL. A PVC JBOX OR "C" CONDULET SHALL BE USED.
 - SUPPORT SYSTEM WITH STAINLESS STEEL UNISTRUTE.

MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE
 900 S.E. OGDEN LANE
 PORT ST. LUCIE, FL 34983
 PHONE (772) 873-6400 FAX (772) 873-6433

LIFT STATION WATER METER AND BACKFLOW PREVENTION ASSEMBLY

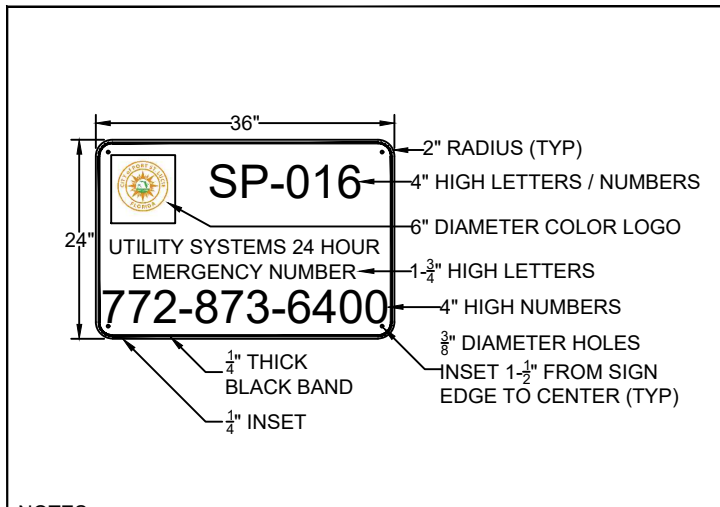
DETAIL: PS-07
 DATE: 2019
 SCALE: N.T.S.
 SHEET: 1 OF 1



MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE
 900 S.E. OGDEN LANE
 PORT ST. LUCIE, FL 34983
 PHONE (772) 873-6400 FAX (772) 873-6433

LIFT STATION BASE PLATES

DETAIL: PS-04
 DATE: 2019
 SCALE: N.T.S.
 SHEET: 3 OF 3



- NOTES:**
- SIGN SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR
 - LIFT STATION DESIGNATION NUMBER (XX-XXXX) WILL BE ASSIGNED BY PSLUSD.
 - THE SIGN SHALL BE 1/8" ALUMINUM WITH REFLECTIVE WHITE BACKGROUND AND BLACK LETTERING.
 - THE SIGN SHALL BE MOUNTED ON LIFT STATION GATE OR FENCE A MINIMUM 48" FROM BOTTOM OF FENCE AND SHALL BE VISIBLE FROM STREET. THE SIGN SHALL BE PERMANENTLY ATTACHED TO THE FENCE.

MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE
 900 S.E. OGDEN LANE
 PORT ST. LUCIE, FL 34983
 PHONE (772) 873-6400 FAX (772) 873-6433

LIFT STATION SIGNAGE

DETAIL: PS-09
 DATE: 2019
 SCALE: N.T.S.
 SHEET: 1 OF 1

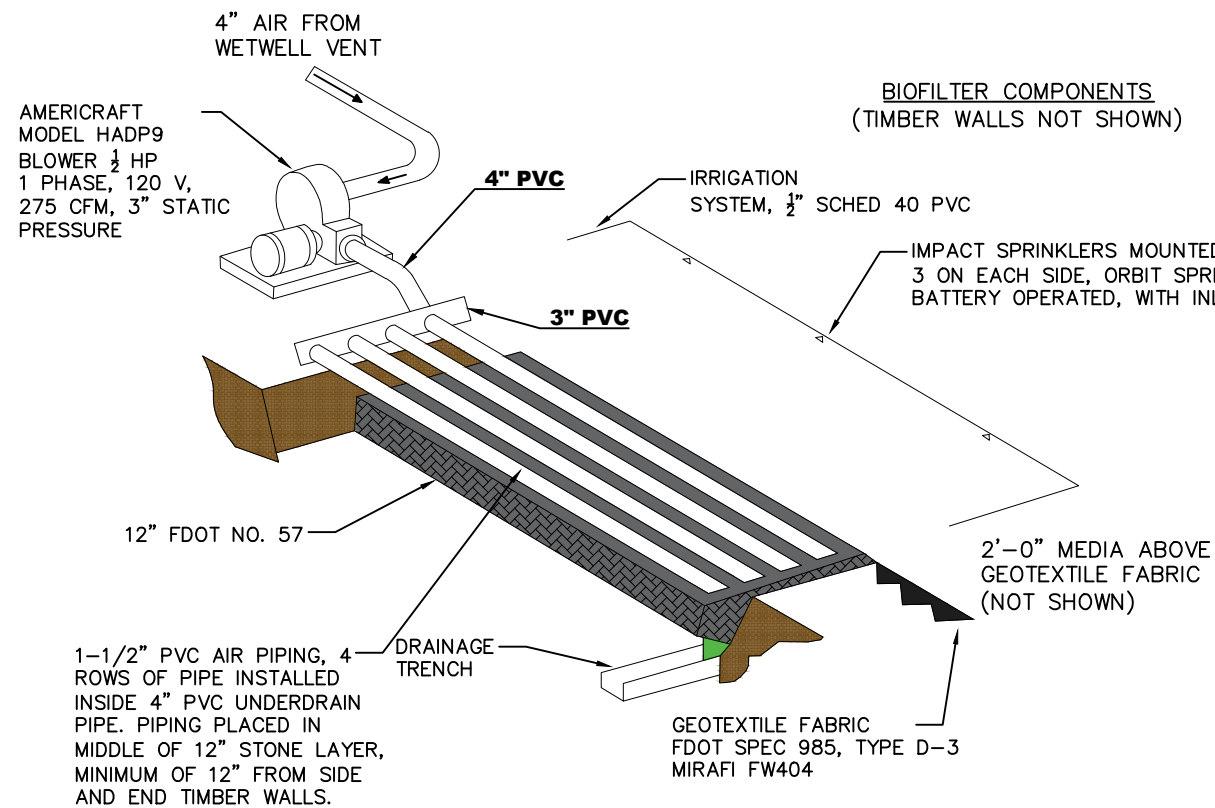
CITY OF PORT ST. LUCIE
UTILITY SYSTEMS DEPARTMENT
 900 S.E. OGDEN LANE
 PORT ST. LUCIE, FL 34983
 PHONE (772) 873-6400 FAX (772) 873-6433

SOUTHPORT LIFT STATION
SP 16 REPLACEMENT
LIFT STATION SECTION AND DETAILS

811
 KNOW WHAT'S BELOW
 ALWAYS CALL 811
 BEFORE YOU DIG
 www.call811.com

DAVID B. GARLAND
 P.E. # 69647

SHEET
 8



RAISED TIMBER BED

BUILD 6"x6" TIMBER WALL STARTING ON COMPACTED LEVEL GROUND.

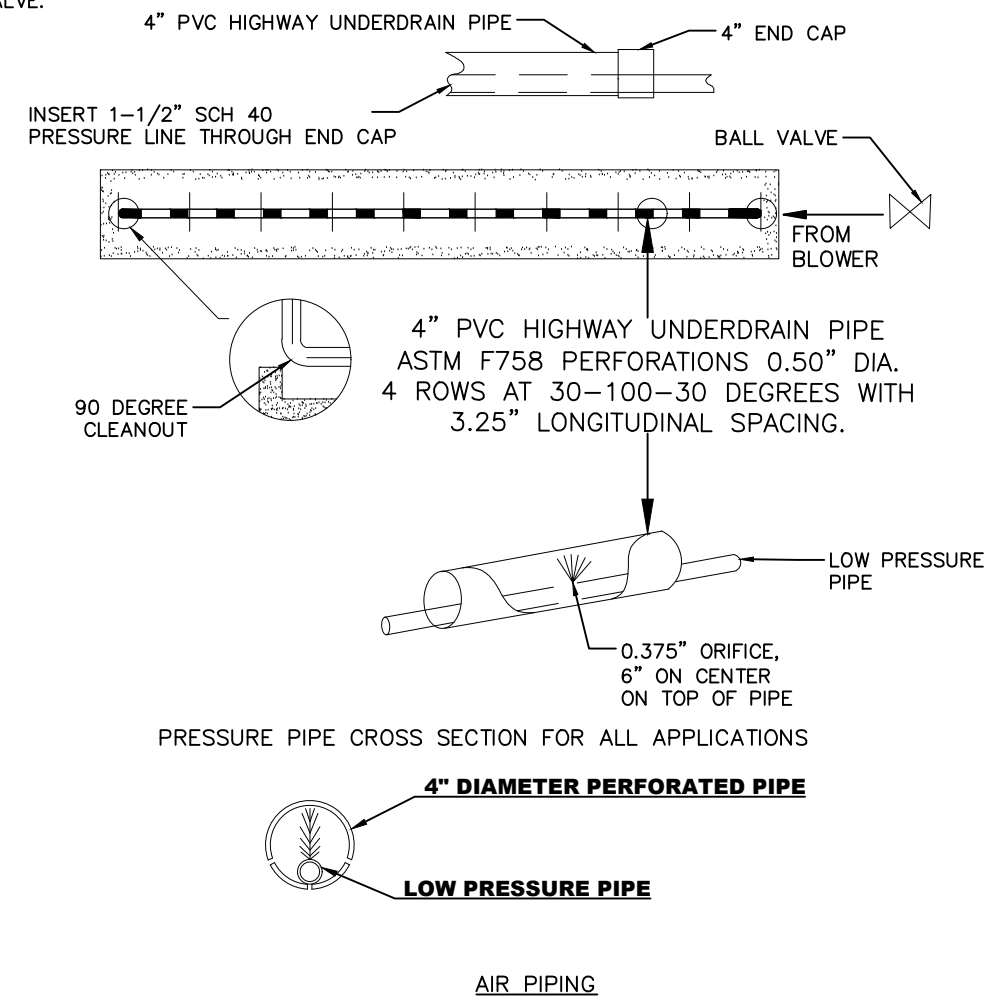
ON FIRST LAYER DRILL HOLES AT 3' SPACING, INSERT 24" LENGTH OF #4 REBAR INTO GROUND.

NEXT TIMBER LAYER STAGGER AT CORNERS AND CONNECT WITH 12" LONG WEATHER RESISTANT SCREWS. POUND 10" LONG GALVANIZED SPIKES AT 3' SPACING THROUGH SECOND LAYER INTO BOTTOM LAYER.

STACK 5 LAYERS OF TIMBERS FOR A TOTAL HEIGHT OF APPROXIMATELY 27 1/2". EACH LAYER SHALL BE ATTACHED TO THE LOWER LAYER WITH GALVANIZED SPIKES.

TIMBERS SHALL BE 6"x6" #2 PRESSURE TREATED PINE TIMBER.

NOTE: THE BLOWER SHALL HAVE A TEFLON SHAFT SEAL, EPOXY COATING, AND AN EXPLOSION-PROOF MOTOR. THE BLOWER MOUNTING SHALL BE COUNTER-CLOCKWISE, TOP HORIZONTAL DISCHARGE.



BLOWER CONTROL PANEL SHALL BE SJE RHOMBUS MODEL 114-1W914X

SHEET DATA	
DESIGNED	DATE
DRAWN	BY
CHECKED	BY
APPROVED	DATE
CAD FILE NAME	

CALL FOR THE LATEST CODES AND REGULATIONS. IT'S THE LAW. CITY OF PORT ST. LUCIE, FLORIDA. SOLE AGENT FOR THE STATE OF FLORIDA. PORT ST. LUCIE, FLORIDA. DESIGNER RESPONSIBLY.

CITY OF PORT ST. LUCIE
UTILITY SYSTEMS DEPARTMENT
900 S.E. OGDEN LANE
PORT ST. LUCIE, FL 34983
PHONE (772) 873-6400 FAX (772) 873-6433



SOUTHPORT LIFT STATION
SP 16 REPLACEMENT
BIOFILTER DETAILS

KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG. It's the law. www.call811.com

811
DAVID B. GARLAND
P.E. # 65947

MINIMUM SEPARATION BETWEEN PSLUSD FACILITIES AND OTHER UTILITIES

OTHER PIPE	HORIZONTAL SEPARATION	CROSSINGS (1)	JOINT SPACING @ CROSSINGS (FULL JOINT CENTERED)
GRAVITY OR PRESSURE SANITARY SEWER, SANITARY SEWER FORCE MAIN, RECLAIMED WATER (2), (3), VACUUM SANITARY SERVICE, STORM SEWER, STORM SEWER FORCE MAIN	 WATER MAIN 10' MINIMUM	 WATER MAIN 18' MINIMUM	 WATER MAIN 6' MINIMUM
ALL OTHER FACILITIES, INCLUDING BUT NOT LIMITED TO: TELEPHONE, CABLE TV, POWER, ETC.	 PSLUSD FACILITY (4) 5' MINIMUM	 PSLUSD FACILITY (4) 18' MINIMUM	 WATER MAIN 3' MINIMUM
ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM	10' MINIMUM	-----	-----

(1) WATER MAIN SHOULD CROSS OVER OTHER PIPE. WHEN WATER MAIN MUST BE BELOW OTHER PIPE, THE MINIMUM SEPARATION IS 18".

(2) RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-110, F.A.C.

(3) RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-110, F.A.C.

(4) A PSLUSD FACILITY INCLUDES MAINS AND STRUCTURES FOR POTABLE WATER, WASTEWATER AND RECLAIMED WATER.

HORIZONTAL BENDS

HORIZONTAL - L (FEET)						
DIAMETER	11-1/4"	22-1/2"	45"	90"	TEE* (BRANCH)	VALVES OR DEAD END
4"	2	4	8	18	20	39
6"	3	5	11	25	36	55
8"	4	7	14	33	52	72
10"	4	8	16	39	65	87
12"	5	9	19	45	80	102
14"	5	11	21	51	93	116
16"	6	12	24	57	107	131
18"	7	13	26	63	120	145
20"	7	14	29	68	133	159
24"	8	16	33	79	157	185
30"	10	19	39	93	192	222
36"	11	21	44	106	225	257
42"	12	24	49	117	254	289
48"	13	26	53	128	283	321

NOTES:

- THE REQUIREMENTS SET FORTH ABOVE WERE CALCULATED FOR PVC PIPE BASED UPON THE FOLLOWING ASSUMPTIONS:
 - SOIL CONDITIONS: SILTY SAND (SM)
 - TRENCH TYPE: 3 (PIPE BEDDED IN 4" MINIMUM OF LOOSE SOIL WITH BACKFILL LIGHTLY COMPACTED)
 - MINIMUM COVER: 3 FT
 - SAFETY FACTOR: 1.5
 - TEST PRESSURE: 150 PSI
 - * SIZE ON SIZE TEE & 5' LENGTH ALONG RUN
- IF FIELD CONDITIONS DIFFER FROM THE ABOVE, THE ENGINEER-OF-RECORD (EOR) SHALL SUBMIT CALCULATIONS BASED ON THE FIELD CONDITION FOR REVIEW AND APPROVAL OF PSLUSD.

VERTICAL BENDS

VERTICAL OFFSET - L (FEET)								
DIAMETER	11-1/4"		22-1/2"		45"		90"	
	UPPER BEND	LOWER BEND	UPPER BEND	LOWER BEND	UPPER BEND	LOWER BEND	UPPER BEND	LOWER BEND
4"	4	2	8	3	17	5	39	11
6"	6	2	11	4	23	7	55	15
8"	8	2	15	4	30	9	72	20
10"	9	3	18	5	36	10	87	24
12"	11	3	21	6	43	12	102	28
14"	12	4	24	7	49	14	116	32
16"	13	4	27	8	55	16	131	36
18"	15	4	29	8	60	17	145	40
20"	16	5	32	9	66	19	158	44
24"	19	6	37	11	77	22	185	51
30"	22	7	45	13	92	26	222	62
36"	26	8	52	15	107	30	256	71
42"	29	8	58	16	120	34	289	80
48"	32	9	64	18	133	37	320	89

NOTES:

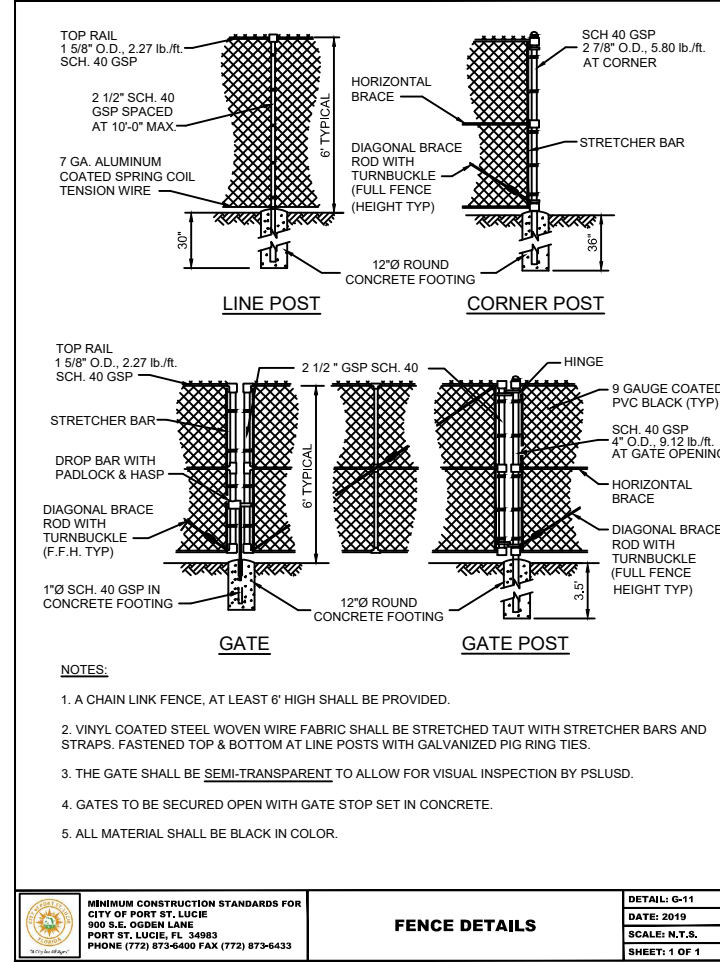
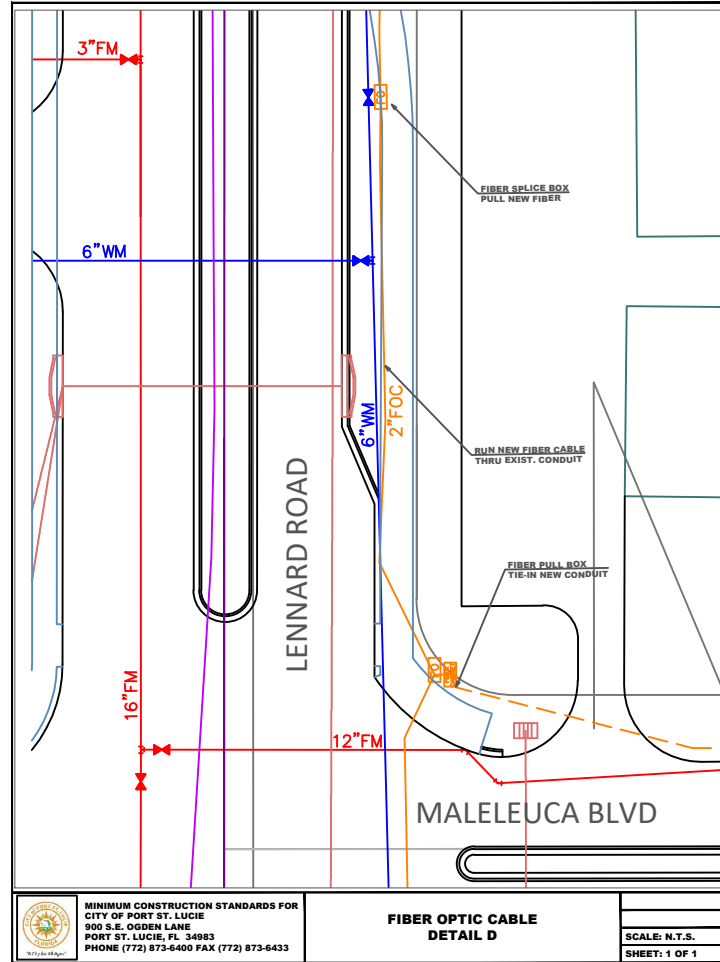
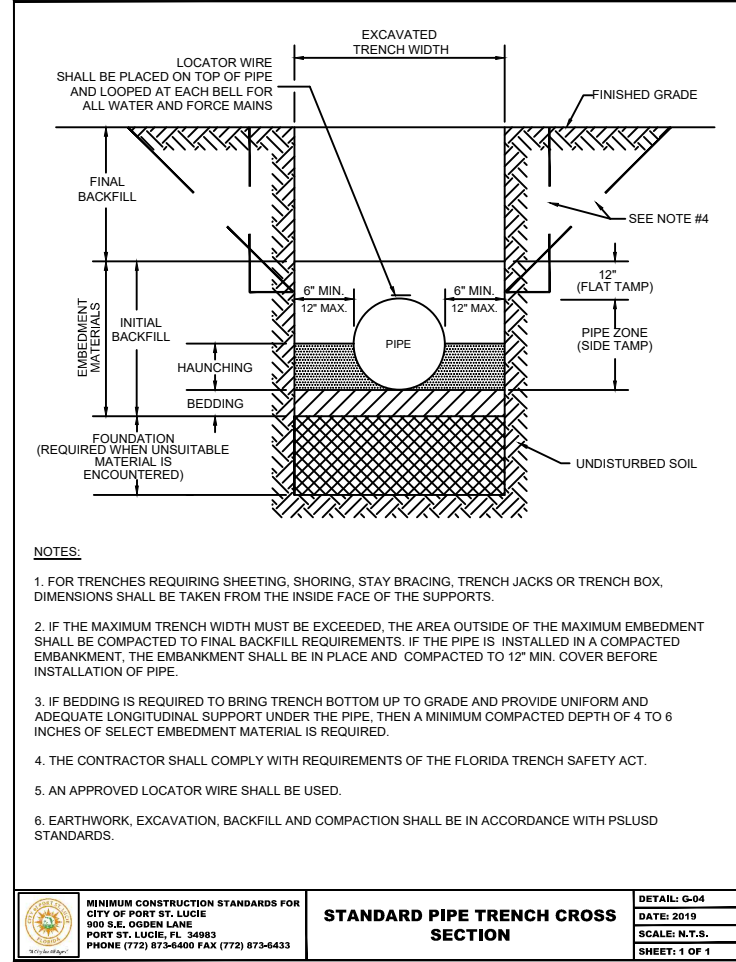
- THE REQUIREMENTS SET FORTH ABOVE WERE CALCULATED FOR PVC PIPE BASED UPON THE FOLLOWING ASSUMPTIONS:
 - SOIL CONDITIONS: SILTY SAND (SM)
 - TRENCH TYPE: 3 (PIPE BEDDED IN 4" MINIMUM OF LOOSE SOIL WITH BACKFILL LIGHTLY COMPACTED)
 - UPPER SIDE MINIMUM COVER: 3 FT
 - LOWER SIDE MINIMUM COVER: 5 FT
 - SAFETY FACTOR: 1.5
 - TEST PRESSURE: 150 PSI
- WHEN CONDITIONS DIFFER FROM THE ABOVE, THE ENGINEER-OF-RECORD (EOR) SHALL SUBMIT CALCULATIONS FOR REVIEW AND APPROVAL OF PSLUSD.
- ALL JOINTS BETWEEN UPPER AND LOWER BENDS SHALL BE RESTRAINED.

REDUCER

L = RETAINED LENGTH AT LARGER SIZE OF REDUCER (FEET)																
DIAMETER	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"	36"	42"	48"		
4"	29	52	71	89	105	121	136	151	179	217	253	285	318			
6"	31	53	74	93	111	127	143	172	211	249	282	315				
8"		29	54	76	96	114	131	163	204	243	277	310				
10"			30	55	78	98	117	151	195	235	271	305				
12"				30	56	79	100	137	184	226	263	299				
14"					30	56	79	120	171	216	255	292				
16"						30	56	101	156	204	245	283				
18"							30	80	140	190	233	273				
20"								56	121	175	221	263				
24"									78	141	192	238				
30"										78	140	194				
36"											75	139				
42"													75			

NOTES:

- THE REQUIREMENTS SET FORTH ABOVE WERE CALCULATED FOR PVC PIPE BASED UPON THE FOLLOWING ASSUMPTIONS:
 - SOIL CONDITIONS: SILTY SAND (SM)
 - TRENCH TYPE: 3 (PIPE BEDDED IN 4" MINIMUM OF LOOSE SOIL WITH BACKFILL LIGHTLY COMPACTED)
 - MINIMUM COVER: 3 FT
 - SAFETY FACTOR: 1.5
 - TEST PRESSURE: 150 PSI
- IF FIELD CONDITIONS DIFFER FROM THE ABOVE, THE ENGINEER-OF-RECORD (EOR) SHALL SUBMIT CALCULATIONS BASED ON THE FIELD CONDITION FOR REVIEW AND APPROVAL OF PSLUSD.



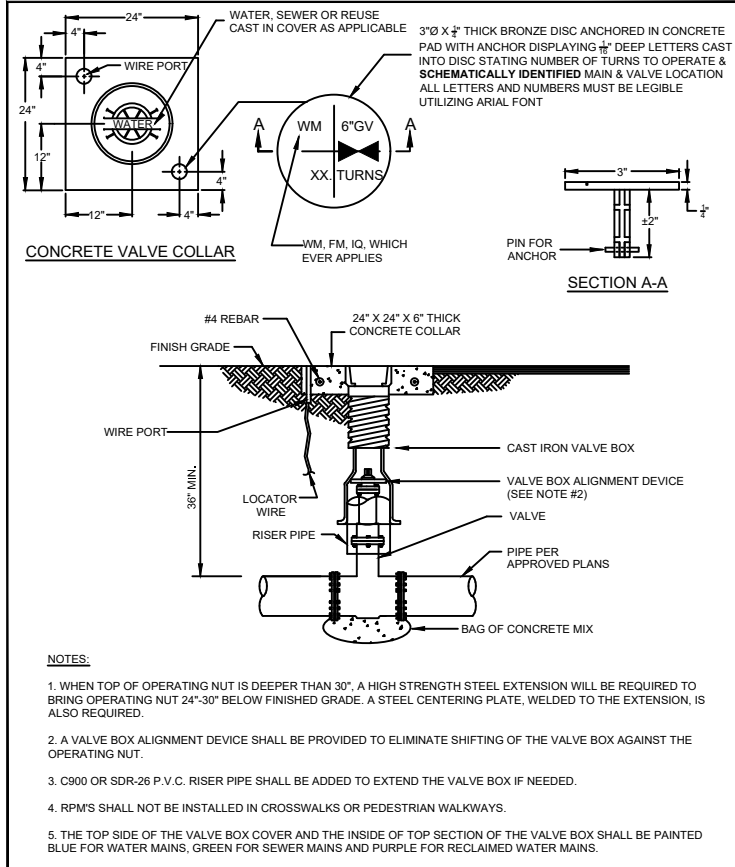
SHEET DATA		REVISIONS	
DATE	BY	DATE	BY

CITY OF PORT ST. LUCIE
UTILITY SYSTEMS DEPARTMENT
 900 S.E. OGDEN LANE
 PORT ST. LUCIE, FL 34983
 PHONE (772) 873-6400 FAX (772) 873-6433

SOUTHPORT LIFT STATION
SP 16 REPLACEMENT
UTILITY DETAILS

KNOW WHAT'S BELOW
 ALWAYS CALL 811
 BEFORE YOU DIG

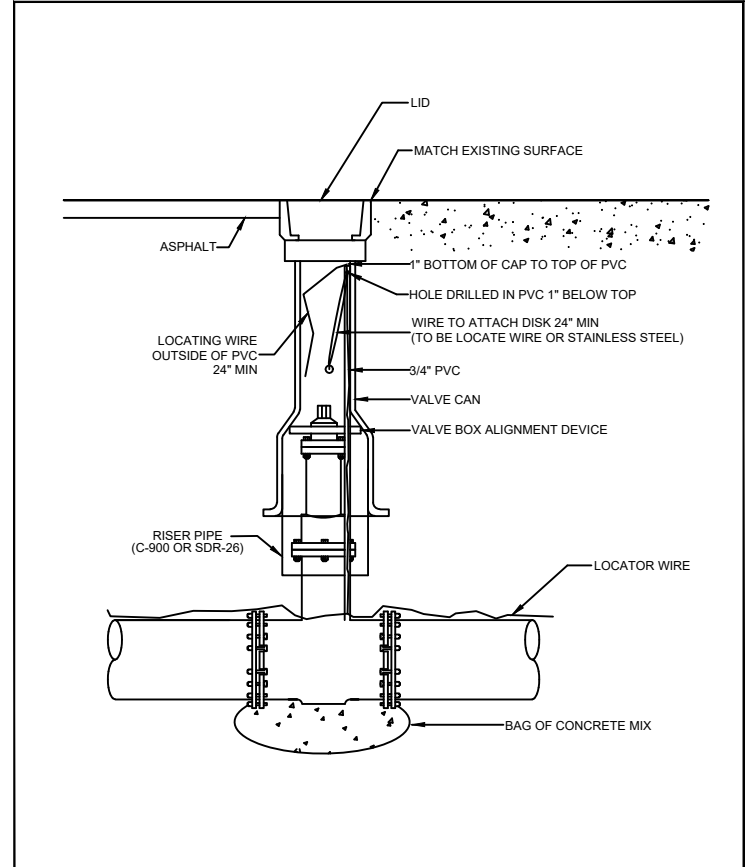
DAVID B. GARLAND
 P.E. # 69047



MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE
900 S.E. OGDEN LANE
PORT ST. LUCIE, FL 34983
PHONE (772) 873-6400 FAX (772) 873-6433

TYPICAL VALVE BOX AND COLLAR IN UN-PAVED AREA

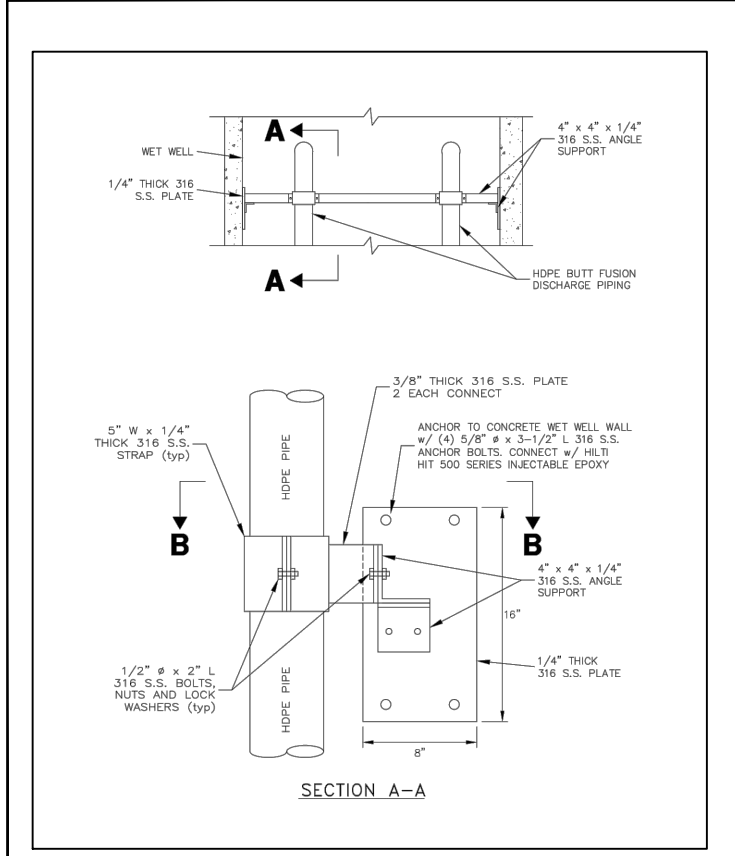
DETAIL: G-07
DATE: 2019
SCALE: N.T.S.
SHEET: 1 OF 2



MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE
900 S.E. OGDEN LANE
PORT ST. LUCIE, FL 34983
PHONE (772) 873-6400 FAX (772) 873-6433

TYPICAL VALVE BOX IN PAVED AREA

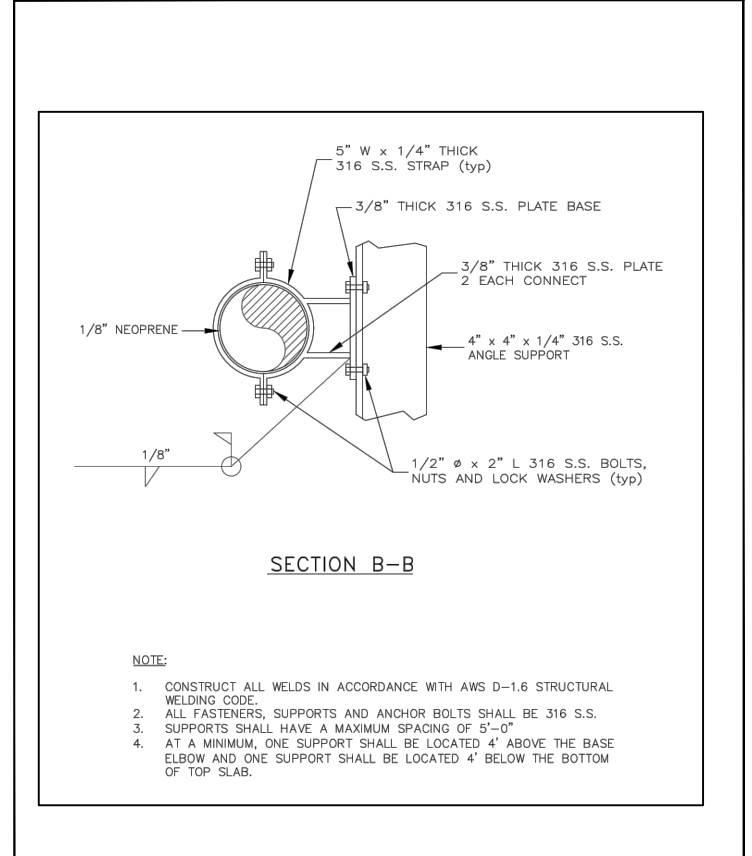
DETAIL: G-07
DATE: 2019
SCALE: N.T.S.
SHEET: 2 OF 2



MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE
900 S.E. OGDEN LANE
PORT ST. LUCIE, FL 34983
PHONE (772) 873-6400 FAX (772) 873-6433

HDPE PIPE SUPPORT

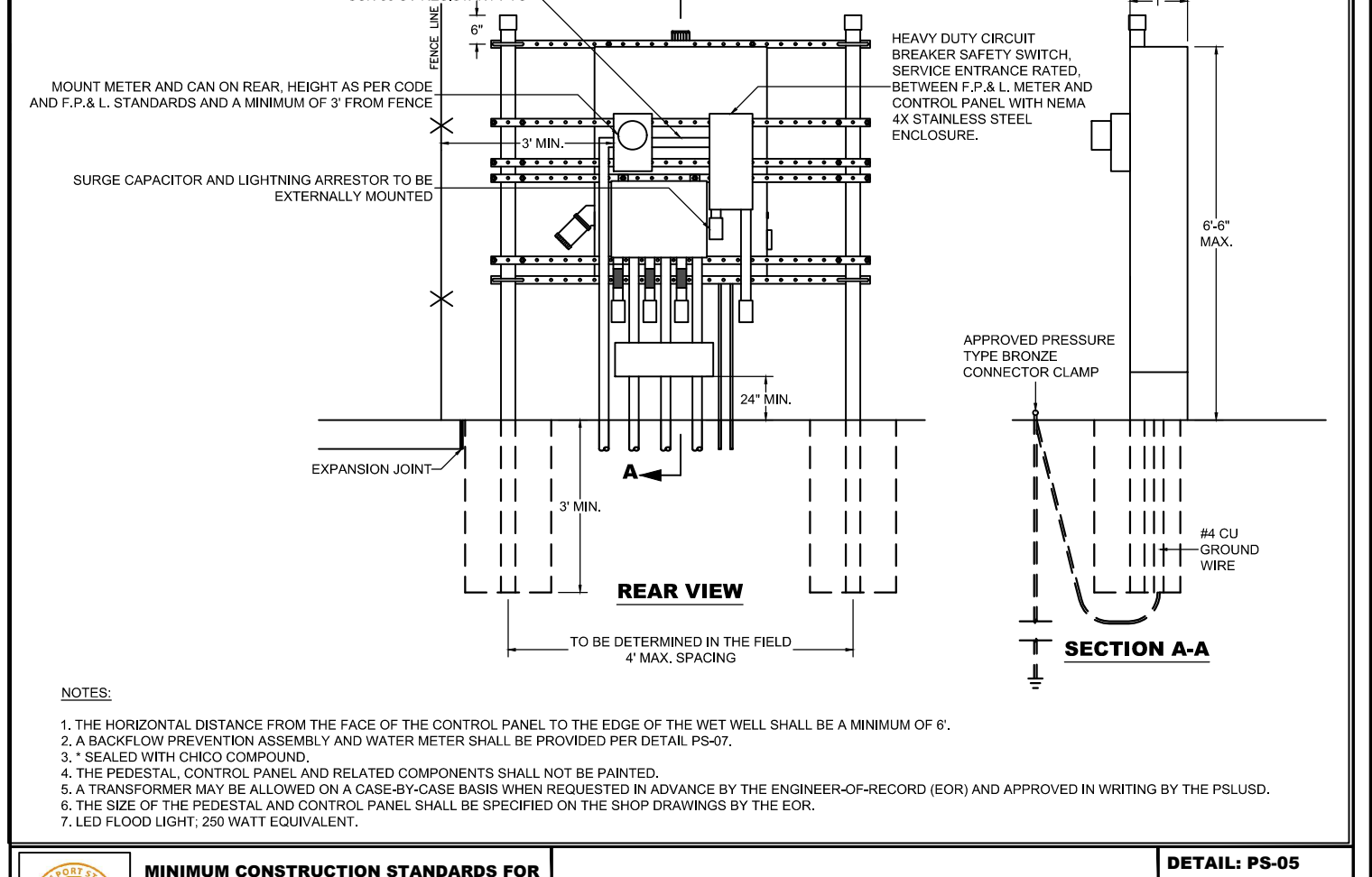
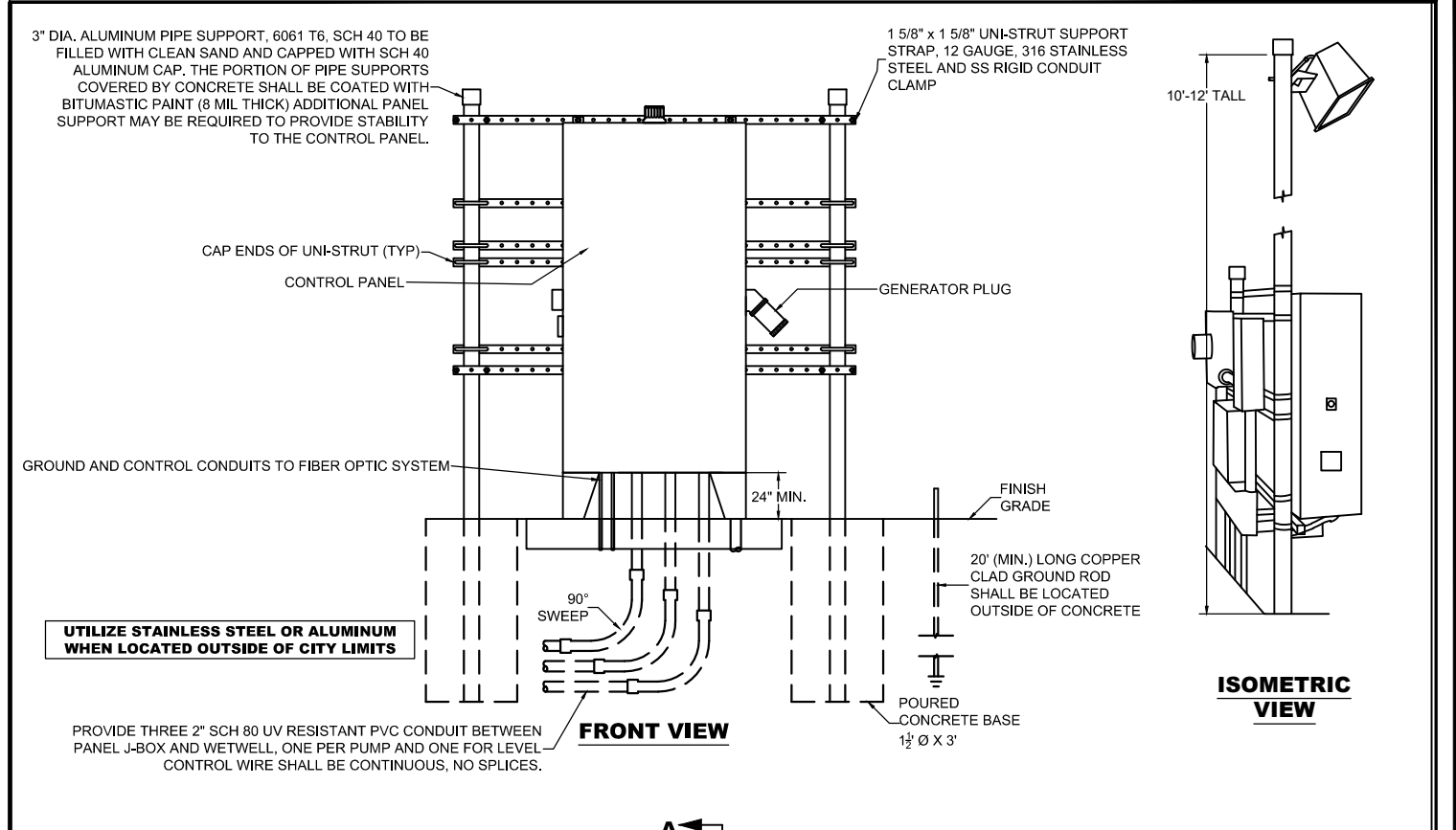
DETAIL: HDPE-A
DATE: 2017
SCALE: N.T.S.
SHEET: 1 OF 2



MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE
900 S.E. OGDEN LANE
PORT ST. LUCIE, FL 34983
PHONE (772) 873-6400 FAX (772) 873-6433

HDPE PIPE SUPPORT

DETAIL: HDPE-B
DATE: 2017
SCALE: N.T.S.
SHEET: 2 OF 2



MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE
900 S.E. OGDEN LANE
PORT ST. LUCIE, FL 34983
PHONE (772) 873-6400 FAX (772) 873-6433

LIFT STATION CONTROL PANEL

DETAIL: PS-05
DATE: 2019
SCALE: N.T.S.
SHEET: 1 OF 1

SHEET DATA	DATE	BY	DESIGNED	DATE	BY	DRAWN	DATE	BY	CHECKED	DATE	BY	APPROVED	DATE	BY	CAD FILE NAME
REVISIONS															

CALL OR E-MAIL FOR MORE INFORMATION
IT'S THE WAY WE LIVE
PORT ST. LUCIE, FLORIDA
www.portstlucie.com

SCALE: AS SHOWN UNLESS NOTED OTHERWISE
NOT TO BE USED FOR CONSTRUCTION UNLESS APPROVED BY THE ENGINEER

**CITY OF PORT ST. LUCIE
UTILITY SYSTEMS DEPARTMENT
900 S.E. OGDEN LANE
PORT ST. LUCIE, FL 34983
PHONE (772) 873-6400 FAX (772) 873-6433**

**SOUTHPORT LIFT STATION
SP 16 REPLACEMENT
UTILITY DETAILS**

KNOW WHAT'S BELOW
ALWAYS CALL 811
BEFORE YOU DIG
www.call811.com

DAVID B. GARLAND
P.E. # 65947

811

SHEET 11

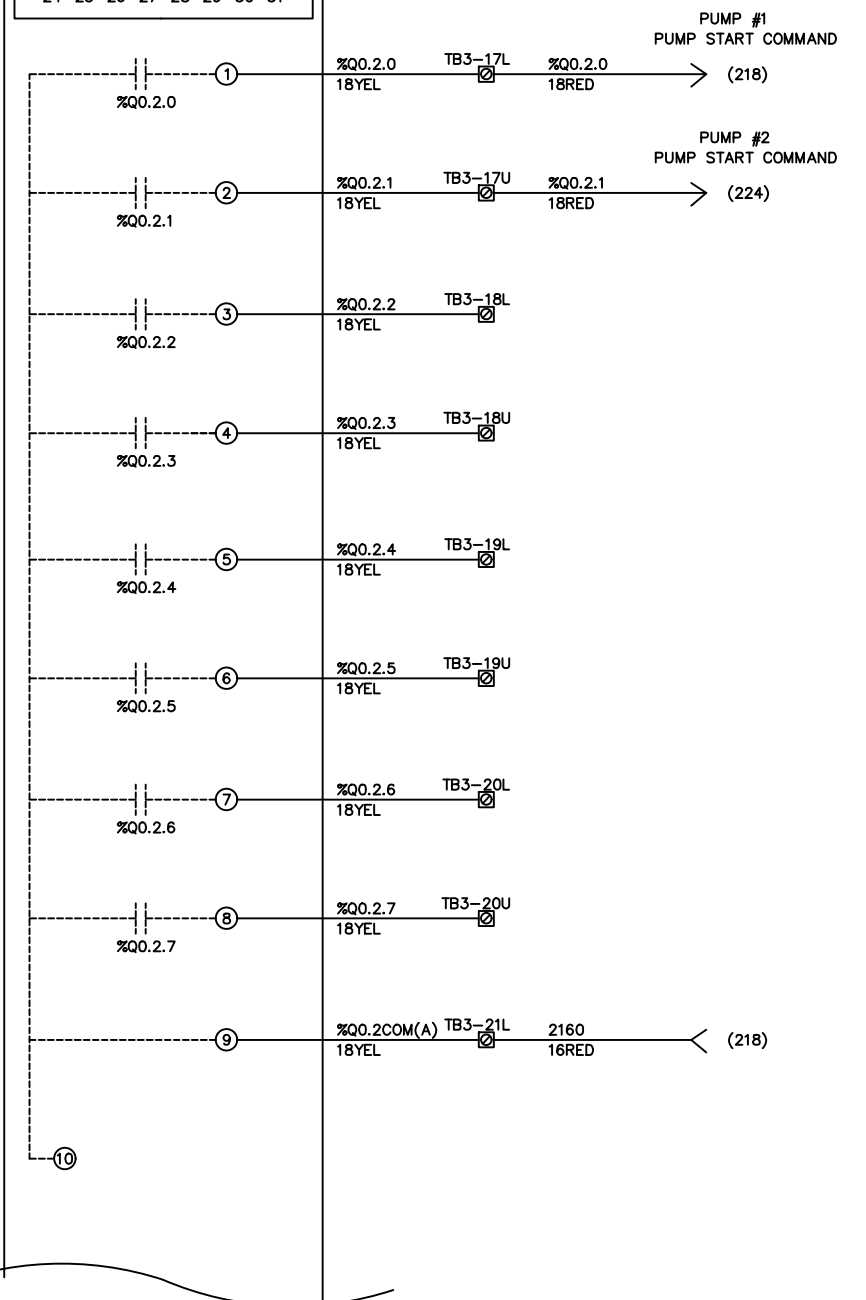
700
702
704
706
708
710
712
714
716
718
720
722
724
726
728
730
732
734
736
738
740
742
744
746
748

DRA0805

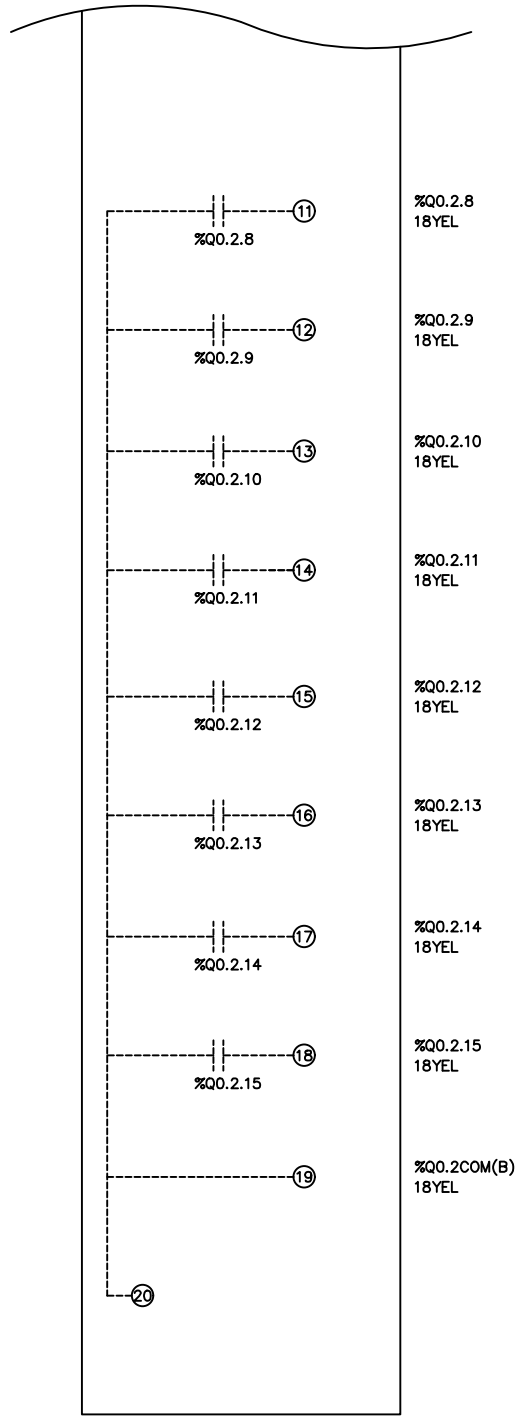
○ RUN ○ ERR ○ I/O ○

00	01	02	03	04	05	06	07
08	09	10	11	12	13	14	15
16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31

SLOT 02



750
752
754
756
758
760
762
764
766
768
770
772
774
776
778
780
782
784
786
788
790
792
794
796
798



**DISCRETE OUTPUTS
SLOT 2
DUPLEX
PUMP PANEL**

SHEET DATA	
BY	DATE
DESIGNED	
DRAWN	
CHECKED	
APPROVED	
CAD FILE NAME	

CALL OR VISIT OUR WEBSITE
WWW.CALL811FLORIDA.COM
IT'S THE WAY TO LIVE. IT'S THE WAY TO WORK.
811
FOR ALL YOUR UTILITY CALLS
CONTACT US TODAY!
800.451.7234
WWW.CALL811FLORIDA.COM

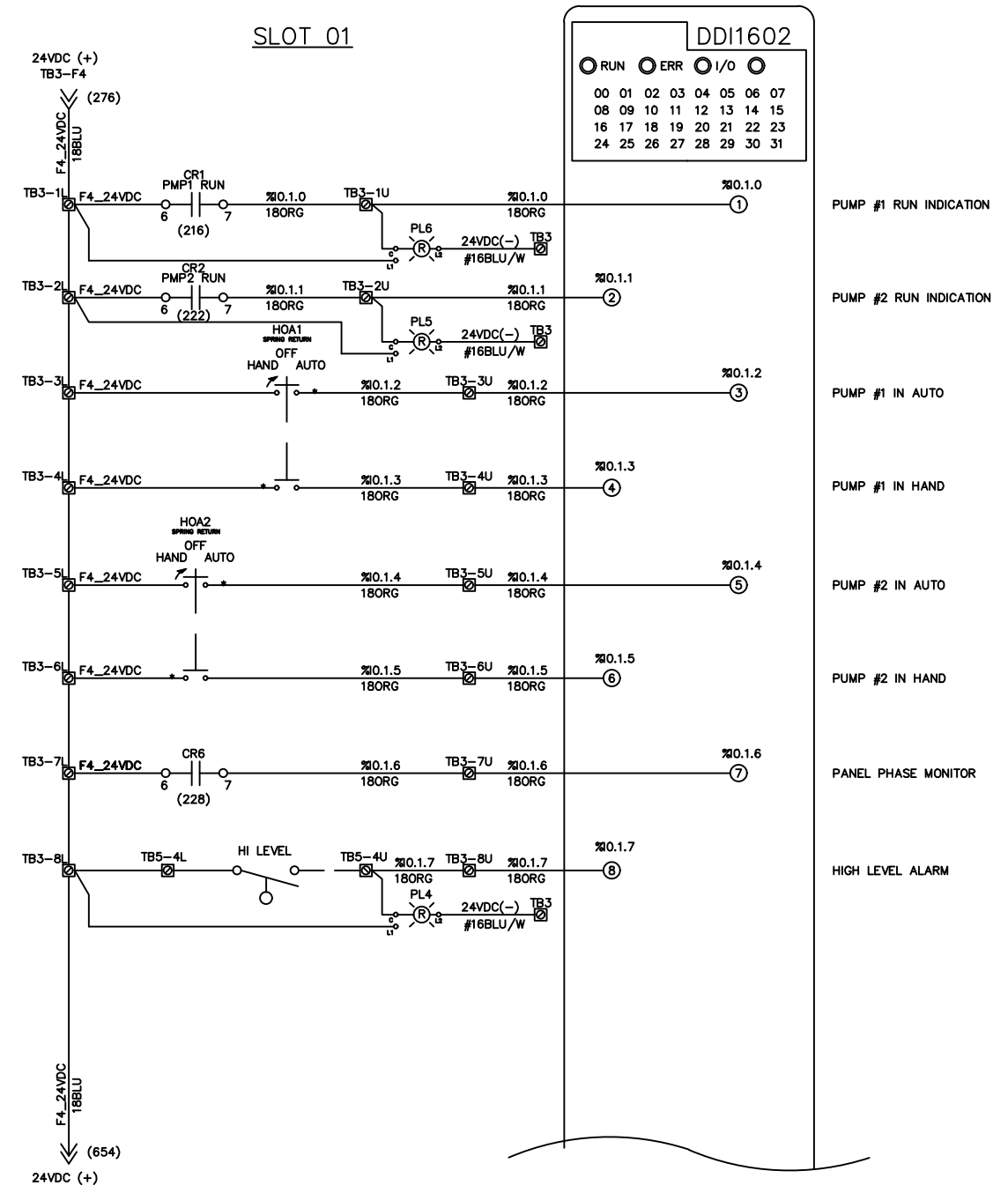
CITY OF PORT ST. LUCIE
UTILITY SYSTEMS DEPARTMENT
900 S.E. OGDEN LANE
PORT ST. LUCIE, FL 34983
PHONE (772) 873-6400 FAX (772) 873-6433



**SOUTHPORT LIFT STATION
SP 16 REPLACEMENT
SOFT START WITH FIBER**

KNOW WHAT'S BELOW
ALWAYS CALL 811
BEFORE YOU DIG
It's the way to live. It's the way to work.
www.call811florida.com
DAVID B. GARLAND
P.E. # 65947

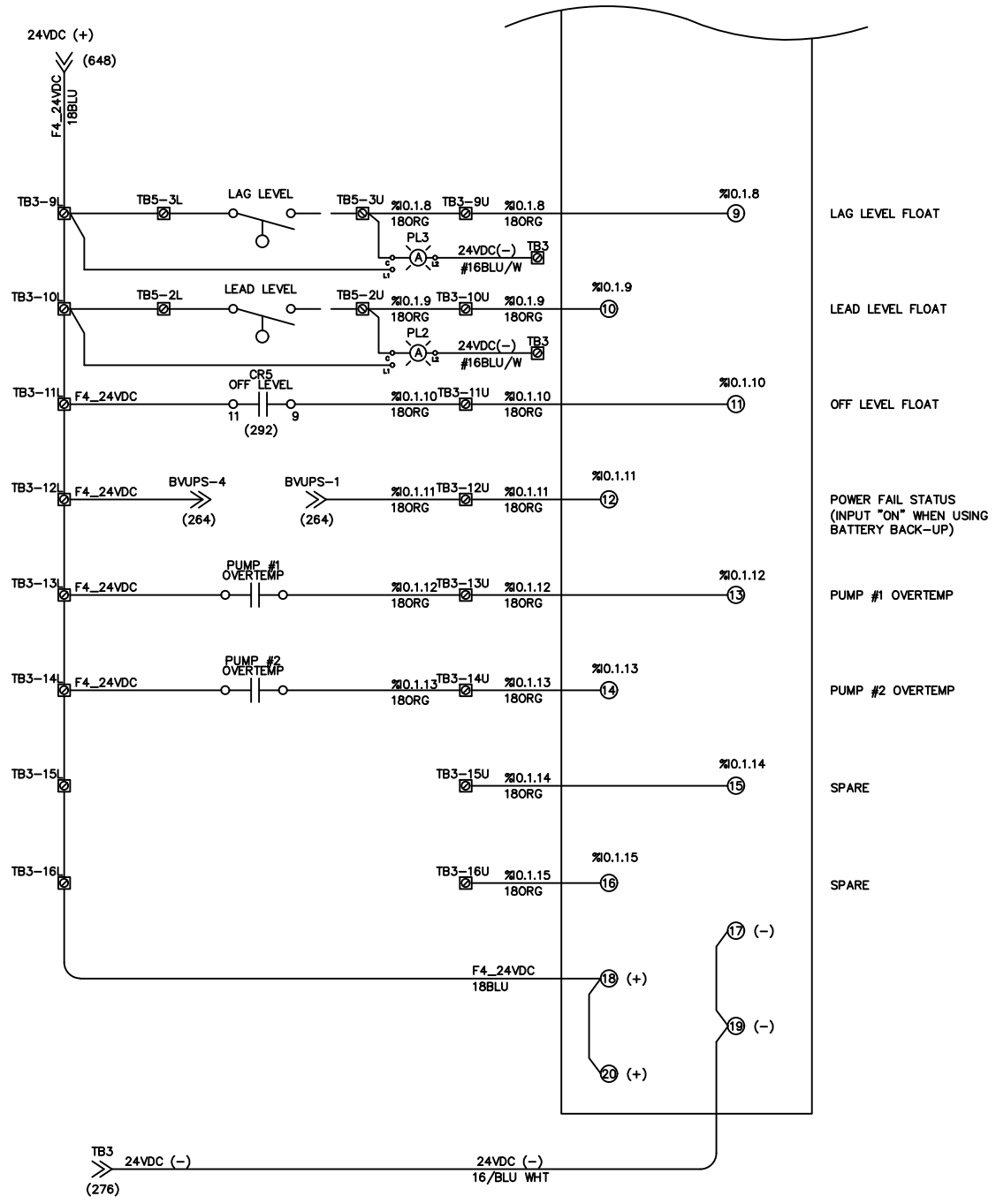
600
602
604
606
608
610
612
614
616
618
620
622
624
626
628
630
632
634
636
638
640
642
644
646
648



DDI1602			
○ RUN	○ ERR	○ I/O	○
00	01	02	03
04	05	06	07
08	09	10	11
12	13	14	15
16	17	18	19
20	21	22	23
24	25	26	27
28	29	30	31

NOTE:
1) ITEMS DENOTED MAY NOT BE APPLICABLE.

650
652
654
656
658
660
662
664
666
668
670
672
674
676
678
680
682
684
686
688
690
692
694
696
698



DISCRETE INPUTS SLOT 1 DUPLEX PUMP PANEL

SHEET DATA	
BY	DATE
DESIGNED	
DRAWN	
CHECKED	
APPROVED	
CAD FILE NAME	

REVISIONS	
BY	DATE

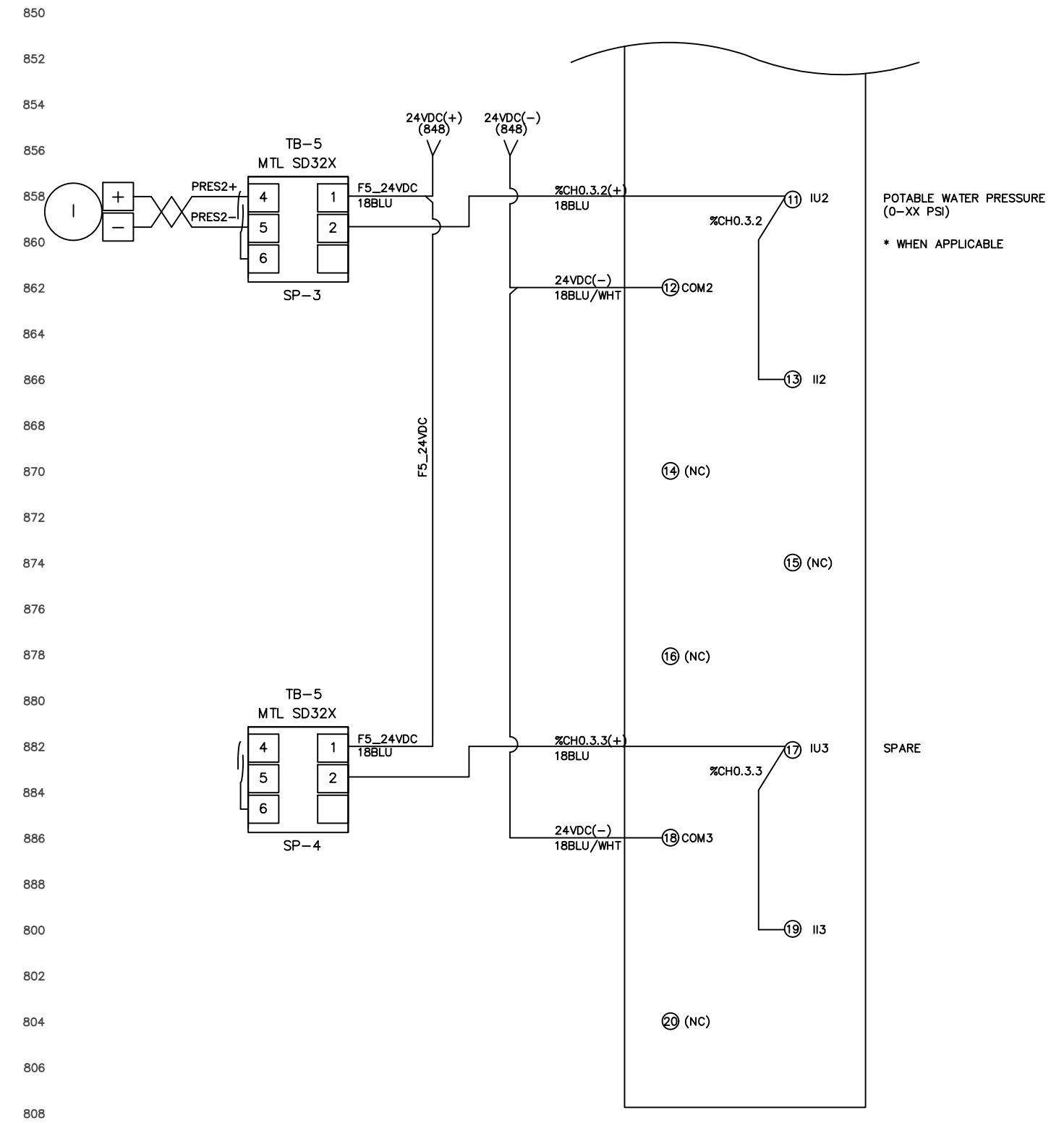
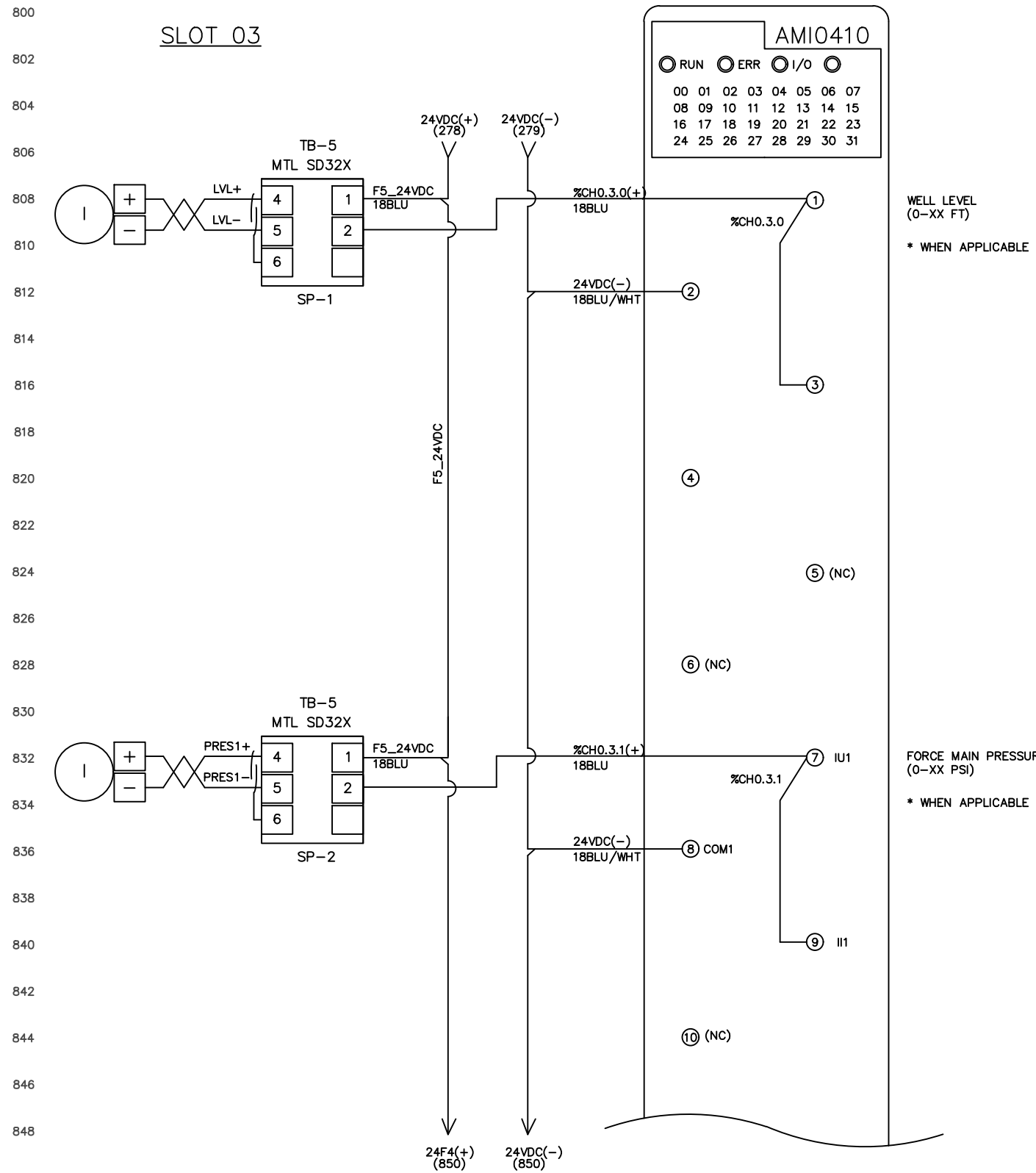
CALL OR WRITE TO THE
 CITY OF PORT ST. LUCIE
 CITY ENGINEERING DEPARTMENT
 900 S.E. OGDEN LANE
 PORT ST. LUCIE, FLORIDA 34983
 PHONE (772) 873-6400 FAX (772) 873-6433

SOUTHPORT LIFT STATION
 SP 16 REPLACEMENT
 SOFT START WITH FIBER

KNOW WHAT'S BELOW
 ALWAYS CALL 811
 BEFORE YOU DIG
 It's the way to live. It's the way to
 www.call811.com
 DAVID B. GARLAND
 P.E. # 65947

SHEET

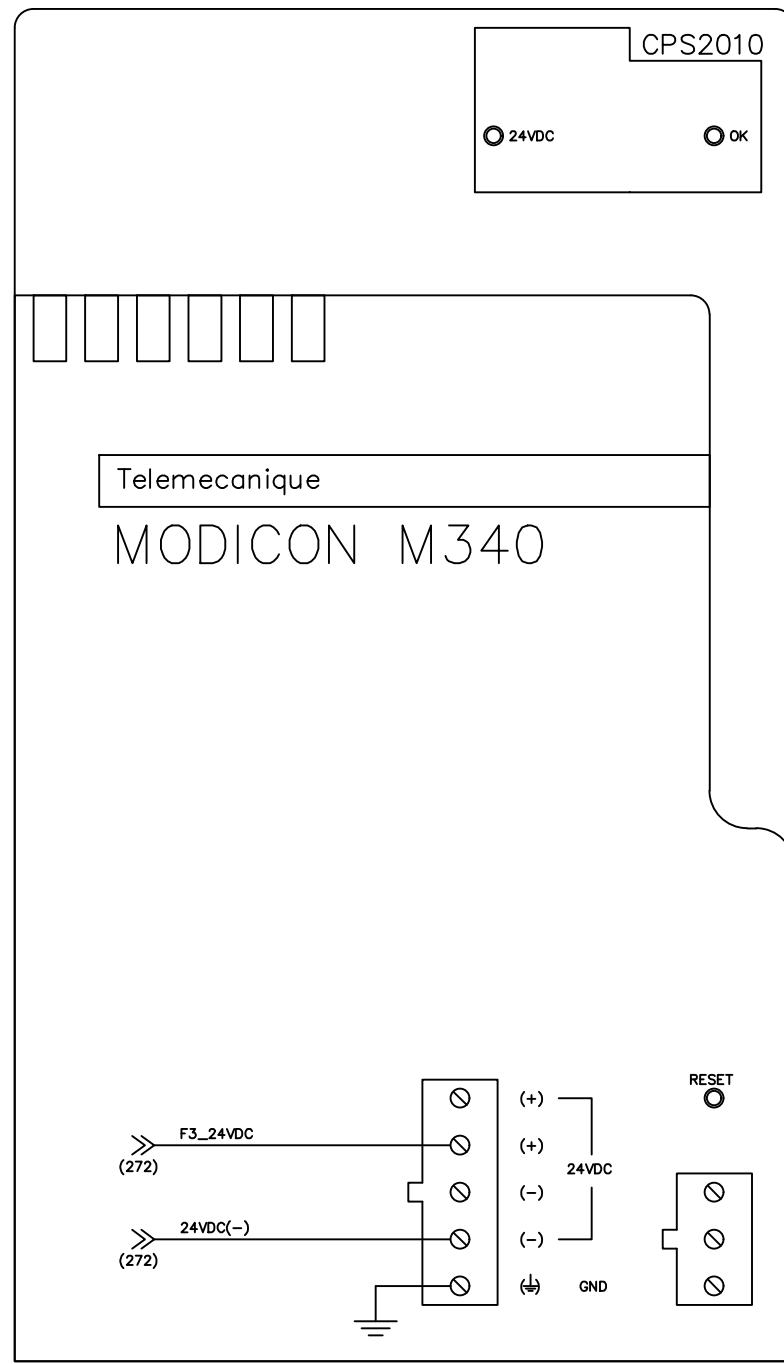
13



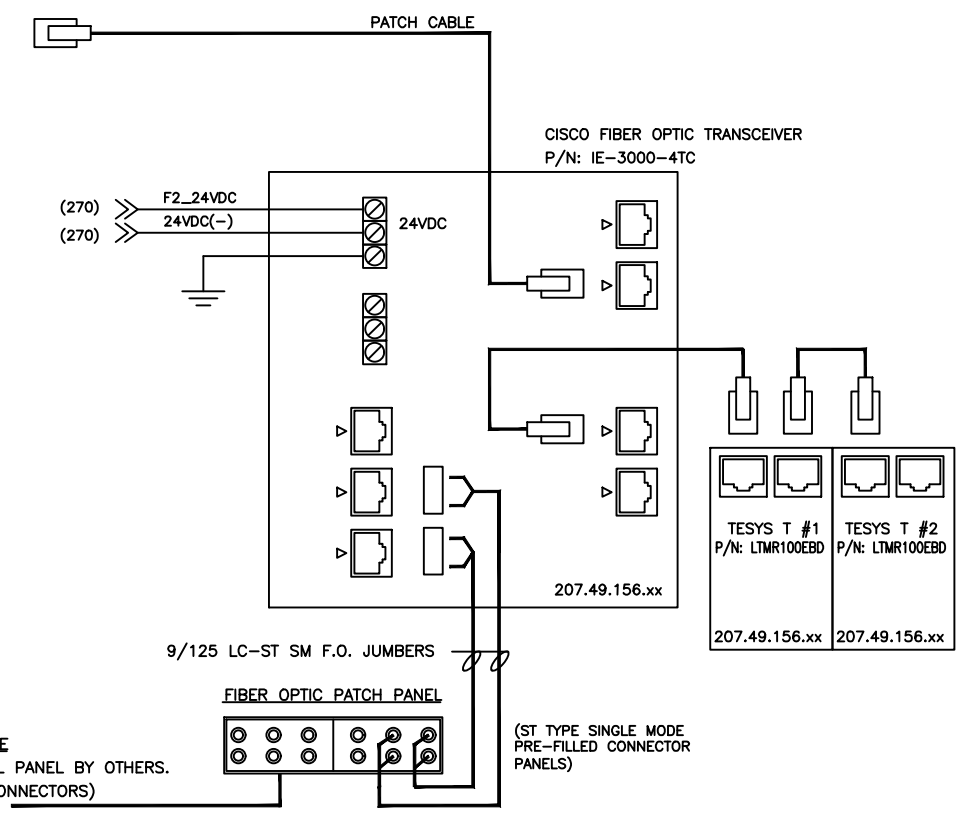
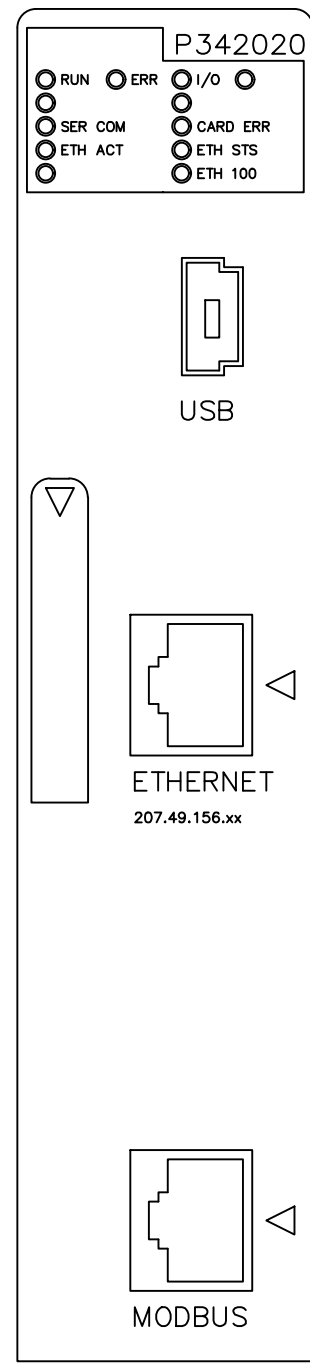
ANALOG INPUT SLOT 3 DUPLEX PUMP PANEL

SHEET DATA	BY	DATE	DESIGNED	DRAWN	CHECKED	APPROVED	CAD FILE NAME
REVISIONS	BY	DATE					
<p style="font-size: small;">CALL OR VISIT OUR WEBSITE AT WWW.CALLSHINE.COM FOR ALL INFORMATION REGARDING OUR PRODUCTS AND SERVICES. IT IS THE POLICY OF CALLSHINE, INC. TO PROVIDE THE BEST QUALITY SERVICE TO OUR CUSTOMERS. SO PLEASE CONTACT US TODAY AT 800-888-8888. WE WILL BE GLAD TO ASSIST YOU IN ANY MANNER POSSIBLE.</p>							
<p>CITY OF PORT ST. LUCIE UTILITY SYSTEMS DEPARTMENT 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433</p>							
<p>SOUTHPORT LIFT STATION SP 16 REPLACEMENT SOFT START WITH FIBER</p>							
<p style="font-size: x-small;">KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG It's the way to live. It's the way to shine. www.callshineline.com DAVID B. GARLAND P.E. # 65947</p>							
<p>SHEET</p>							
<p>14</p>							

500
502
504
506
508
510
512
514
516
518
520
522
524
526
528
530
532
534
536
538
540
542
544
546
548



550
552
554
556
558
560
562
564
566
568
570
572
574
576
578
580
582
584
586
588
590
592
594
596
598



CITY PROVIDED FIBER OPTIC CABLE
 * INSTALLATION AND TERMINATIONS IN CONTROL PANEL BY OTHERS.
 ? FIBER 9/125 SM F.O. CABLE (ST TYPE CONNECTORS)

COMMUNICATIONS FIBER OPTIC DUPLEX PUMP PANEL

SHEET DATA	
BY	DATE
DESIGNED	
DRAWN	
CHECKED	
APPROVED	
CAD FILE NAME	

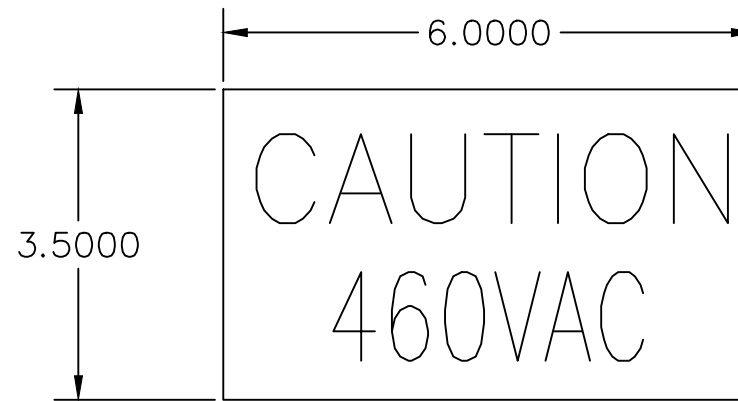
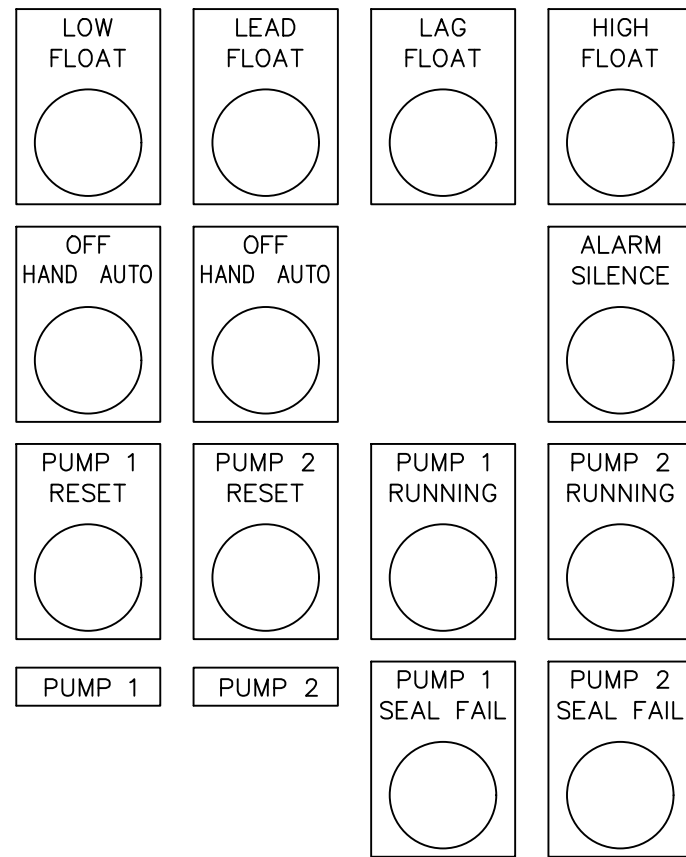
**CITY OF PORT ST. LUCIE
UTILITY SYSTEMS DEPARTMENT
900 S.E. OGDEN LANE
PORT ST. LUCIE, FL 34983
PHONE (772) 873-6400 FAX (772) 873-6433**



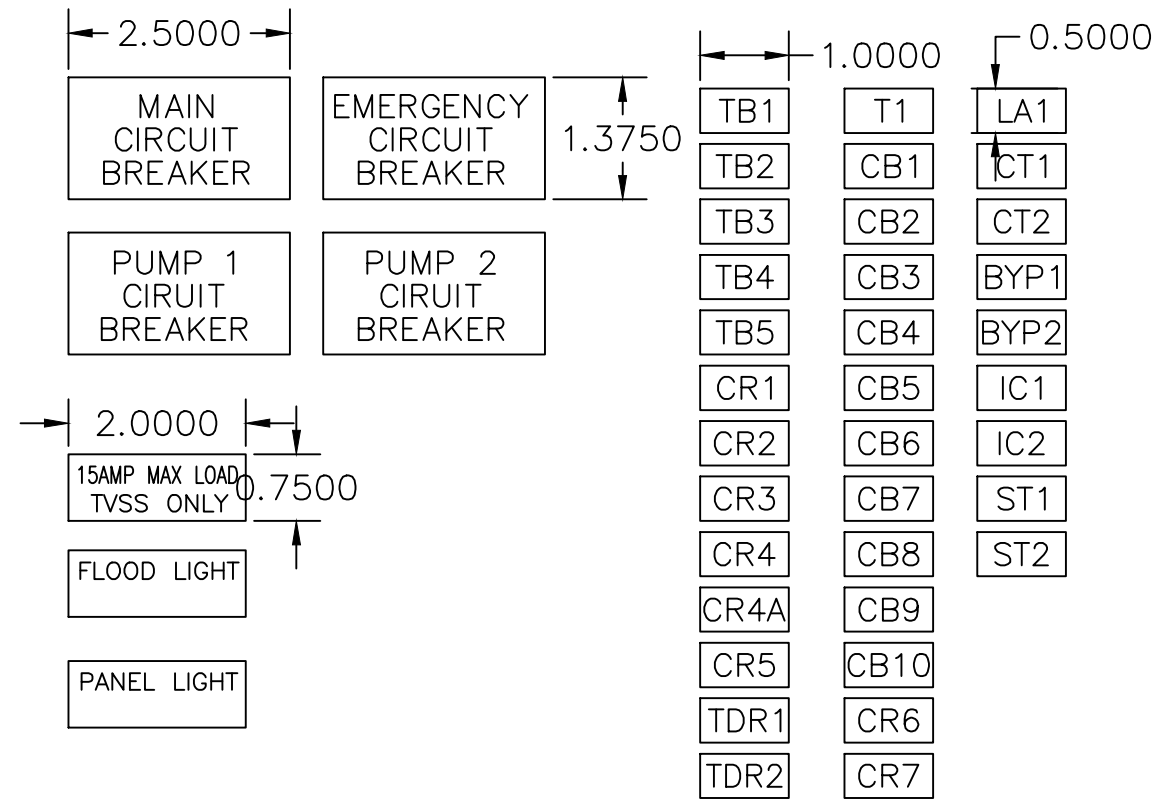
**SOUTHPORT LIFT STATION
SP 16 REPLACEMENT
SOFT START WITH FIBER**

KNOW WHAT'S BELOW
ALWAYS CALL 811
BEFORE YOU DIG
It's that's the way to live. It's the way to shine.
www.call811shines.com
DAVID B. GARLAND
P.E. # 65947

* WHITE TEXT ON BLACK LABEL 3/16"



* RED TAG WITH WHITE TEXT



* WHITE TEXT ON BLACK LABELS 3/16"

NAMEPLATE DETAILS
460VAC, 3 PHASE, 60 HERTZ
DUPLEX
PUMP PANEL

SHEET DATA	
DESIGNED	DATE
DRAWN	BY
CHECKED	DATE
APPROVED	BY
CAD FILE NAME	DATE

CALL FOR THE LATEST
CITY OF PORT ST. LUCIE
UTILITY SYSTEMS DEPARTMENT
900 S.E. OGDEN LANE
PORT ST. LUCIE, FL 34983
PHONE (772) 873-6400 FAX (772) 873-6433



**SOUTHPORT LIFT STATION
SP 16 REPLACEMENT
SOFT START WITH FIBER**

KNOW WHAT'S BELOW
ALWAYS CALL 811
BEFORE YOU DIG
It's that easy. It's that free.
www.call811fla.com



DAVID B. GARLAND
P.E. # 65947

Item #	Control Panel Hardware	Manufacturer	Manufacturer Part No.	Curry Part No.	Panel: RTU	
ENCL	NEMA 4X Stainless Steel 3 PT Latch Enclosure with Aluminum swing out panel with door stop kit installed on swing out panel (dead front) and panel door.	Hoffman	A48H4812WFSSLP3PT-MOD		1	
	48" x48" Sub Panel	Hoffman	A48P48		1	
	Corrosion Inhibitor	Hoffman	A-HCI-5E	ENC-0007	1	
LT1	Enclosure Light Package with Manual Switch	Hoffman	LF120V18 / F8T5CW 18"		1	
HEAT	Anti-Condensation Heater	Hoffman	DAH1001A		1	
GR1	Generator Receptacle (100 Amp)	Pyle National	JRE-4100-PR		1	
LA1	TVSS Surge Protector	Square D	SDSA3650		1	
CB1	Main Circuit Breaker 3P 100A	Square D	HDL36100		1	
CB2	Generator Receptacle Circuit Breaker 3P 100A	Square D	HDL36100		1	
	Mechanical Interlock	Square D	S29354		1	
CB5, CB6	Pump Circuit Breaker 3P 80 A	Square D	HDL36080		2	
CB4	Control Circuit Breaker 3P 15A	Square D	MND61331		1	
CB7	Control Circuit Breaker 2P 4A	Square D	MND61315		1	
CB8	Control Circuit Breaker 1P 8A	Square D	60109		1	
CB9	Control Circuit Breaker 1P 15A	Square D	60112		1	
CB10	Control Circuit Breaker 1P 5A	Square D	60106		1	
ETM	Elapse Timer Meters 120vac non-resetable w/ terminal block	Redington	710-0002		2	
ST1, ST2	Soft Starter	Square D	ATS48D47Y		2	
IC1,2 & Byp1,2	Isolation and bypass contactors	Square D	LC1D50AG7		4	
CT1, CT2	TeSys T Motor Management - Main Controller	Square D	LTMR100EBD		2	
	TeSys T Motor Management - Expansion Module	Square D	LTMEV40BD		2	
	TeSys T Motor Management - Connecting Jumpers	Square D	LTMC004		2	
T1	Control Transformer	Square D	9070T0750D1		1	
BVUPS	Battery Voltage UPS	Transtronics	BVUPS24PF		1	
	8 Pin Relay Base	Omron	PF083A-E	RLY-0007	1	
E1	Battery	Werker	WKA12-7.5F	PWR-0026	2	
	24vdc Power Supply 5.0 Amps	Phoenix Contact	85044081		1	
	Cisco network switch	Cisco	IE-3000-4TC		1	
	Network Switch Transceiver	Addon	GLC-LH-SM-AO		2	
	Fiber Optic Patch Panel	Corning	SPH-01P		1	
	Fiber Optic Patch Panel ST type filler plate single mode	Corning	CCH-CP12-19T		1	
	Fiber Patch cords 1-meter LC-ST single mode				2	
	UTP Ethernet Patch Cord / Cat 5,				1	
	Radio Shelf				1	
HOA1, HOA2	Selector Switch 3 Pos *Spring Return from Left (Hand Mode)	Square D	9001SKS63B		2	
HOA1, HOA2	Control Block Assembly	Square D	9001KA1		4	
PB1 - PB3	Push Button (Black)	Square D	9001SKR1BH5		3	
PL1-PL3	30mm 24vdc Push-to-Test Pilot Light (Amber)	Square D	9001SKT35A31		3	
PL4-PL8	30mm 24vdc Push-to-Test Pilot Light (Red)	Square D	9001SKT35R31		5	
CR1-CR3	11 pin 3PDT 120vac Relay	AA Electric	AAE-A301-M		3	
CR4-CR7	11 pin 3PDT 24vdc Relay	AA Electric	AAE-D304-M		5	
	11 pin Relay Base	AA Electric	PF113A-E		10	
PM1	3 Phase Monitoring Relay	Macromatic	PMPU		1	
TDR1	Time Delay Relay	IDEC	GT3A-3EAF20		2	
AL1	Alarm Beacon	Ingram	LRX-40		1	
AH1	Alarm Horn	Ingram	AH115A8G		1	
TS1, TS2	Light Switch SPDT			ELE-	2	
	End Blk	Wago	249-117	TBL-0082	10	
	Two Tier Term Blk gray	Entelec	M4/6.D2 # 0115 271.22	TBL-0014	50	
	Two Tier Barrier gray	Entelec	FEM6D # 0118 499.23	TBL-0010	4	
	Two Tier Term Blk jumper bar	Entelec	BJM6D# 0173 520.22	TBL-0021	6	
	Jumper Bar Coupling	Entelec	173627.21, EL6	TBL-0032	1	
	Ground Term Blk	Entelec	M4/6.P # 0165 113.16	TBL-0017	4	
	Fuse Holder Term Blk	Entelec	M4/8.SF #0115 657.25	TBL-0013	10	
	Fuse Holder End Barrier	Entelec	FEM8S	TBL-0005	2	
	Fuse GMA-3 amp	LITTLEFUSE	235002	FUS-0006	1	
	Fuse GMA-2 amp	LITTLEFUSE	235003	FUS-0005	10	
	4-20 mA Surge Arrestors	MTL	SD32X		4	
	85 AMP Terminal blk gray	M16/12	*P/N indicates box of 20	Entelec	1SNA 115 129 R1400	10
	85 AMP Terminal blk end covers	M16/12	*P/N indicates box of 20	Entelec	1SNA 118 618 R0100	2
	Din Rail (Ft)	WEID	#51450	PNL-0040	8	
	Wire duct 2" w x 3" h and Cover (Ft)	Panduit	E2X3WH6, C3WH6	PAN-0020 / PAN-0016	20	
	Wire duct 1" w x 3" h and Cover (Ft)	Panduit	E1X3WH6,		2	
GFCI	GFCL-15 Amp Receptical	Cooper		ELE-0004	1	
	Handy Box		#58361 1/2	ELE-0001	1	
	Handy Box Cover			ELE-0015	1	
	Plastic Bushing	T&B	3210, 1/2"	ELE-0020	1	
G	Mechanical Gnd Lug.(CED)	Positech	MCD1-1025		1	
	Ground Bus Bar	Square D	PK7GTA	FUS-0032	2	
PDB1	Power Distribution Block w/finger safe cover	Square D	9080LBA363206		1	

Item #	Control Panel Hardware	Manufacturer	Manufacturer Part No.	Curry Part No.	Panel: RTU
1	M340 04 Slot PLC Backplane	Schneider	BMX XBP 0400 rack		1
2	M340 PLC Power Supply	Schneider	BMX CPS 2010		1
3					
4	M340 PLC Processor	Schneider	BMX P34 2020		1
5					
6	M340 PLC 16 pt 24vdc Digital Input Module	Schneider	BMX DDI 1602		1
7	M340 PLC 4-20 mA 4ch. Analog Input Module	Schneider	BMX AMI 0410		1
8	M340 PLC 16ch. Relay Output Module	Schneider	BMX DRA 1605		1
9					
10	M340 PLC I/O Module 20 pt. Terminal Connectors	Schneider	BMX FTB 2010		3
11					
12					
13					
14					
15					

Item #	Electrical Materials	Manufacturer	Manufacturer Part No.	Curry Part No.	Panel: RTU
1	10' x 3/4" ground rod				2
2	1/0 copper bare Stranded				15
3					
4	J-Junior Direct burial ground clamp NSI# G-1-S-BS				2
5	3/4" Acorn ground rod clamp Nsi# GRC 34H				2
6					
7					
8					
9					
10	150 watt flood lamp	Intermatic	FL150MH		1
11					
12					
13					
14					
15					

Item #	Field Instruments	Manufacturer	Manufacturer Part No.	Curry Part No.	Panel: RTU
1	Float Balls (50 Ft Cable Type 'S' Suspended Normally Open Roto Float)	Anchor Scientific	S50NO		5
2					
3					
4					
5					

NOTES:

* GR1, CB1, CB2, CB5 & CB6 MAY VARY PER SITE. PLEASE SIZE ACCORDINGLY.

BILL OF MATERIAL 48 X 48 X 14 DUPLEX PUMP PANEL

SHEET DATA	
BY	DATE
DESIGNED	
DRAWN	
CHECKED	
APPROVED	
CAD FILE NAME	

REVISIONS	
BY	DATE

CALL OR FAX FOR MORE INFORMATION
IT'S THE WAY WE LIVE
THE WAY WE WORK
THE WAY WE THINK
THE WAY WE GROW

**CITY OF PORT ST. LUCIE
UTILITY SYSTEMS DEPARTMENT
900 S.E. OGDEN LANE
PORT ST. LUCIE, FL 34983
PHONE (772) 873-6400 FAX (772) 873-6433**



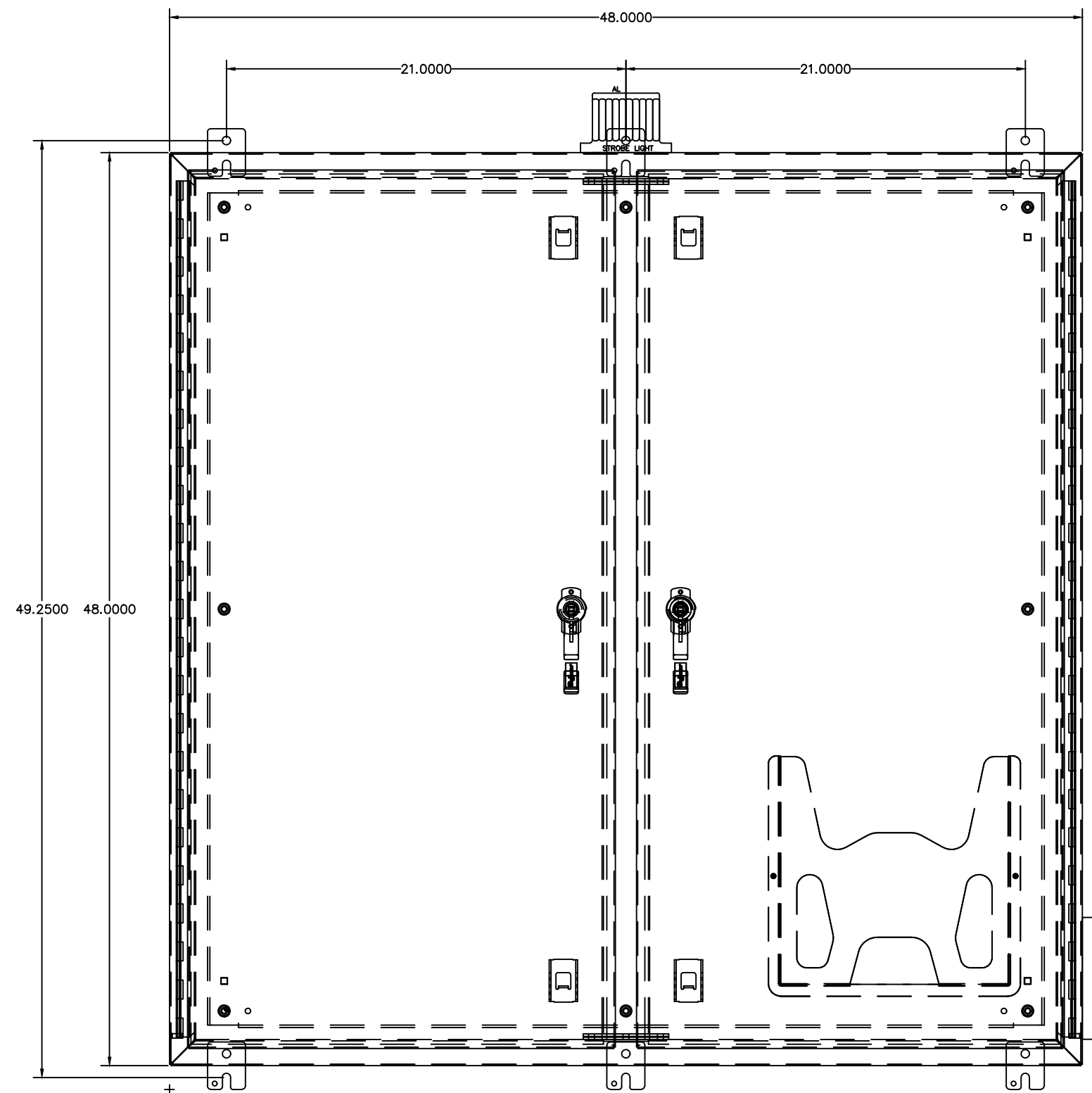
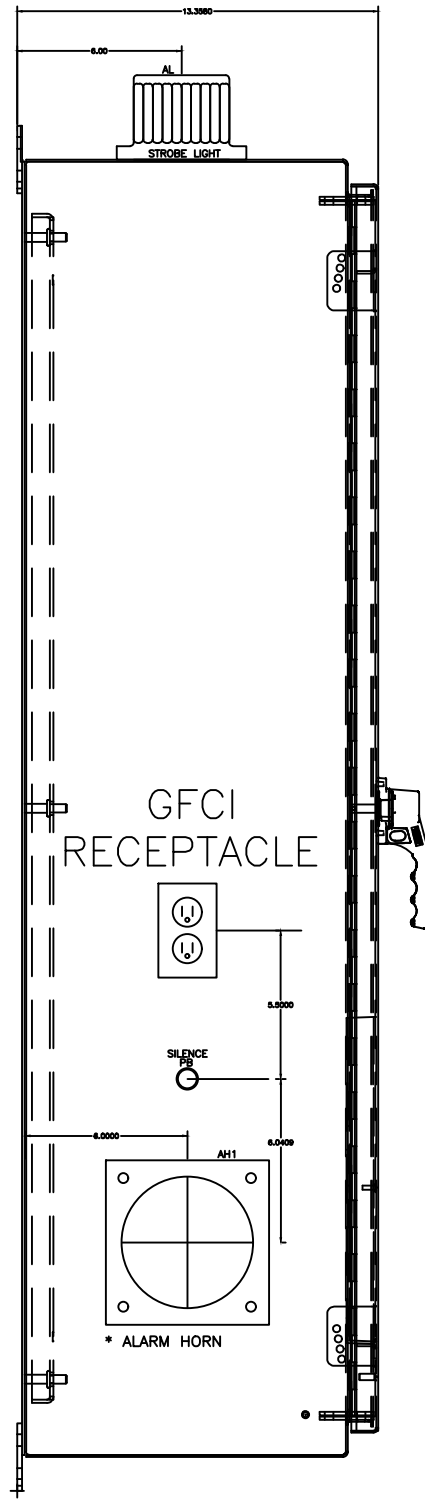
**SOUTHPORT LIFT STATION
SP 16 REPLACEMENT
SOFT START WITH FIBER**

KNOW WHAT'S BELOW
ALWAYS CALL 811
BEFORE YOU DIG

It's that's how it's done.

www.call811.com

DAVID B. GARLAND
P.E. # 69047



* ENSURE THAT RECEPTACLE CLEARS
SOFT STARTS/STARTERS MOUNTED ON BACK PLANE

GR1
GENERATOR
RECEPTACLE

NOTE:
ENCLOSURE DOORS SHALL HAVE DOOR STOPS INCLUDED
SWING-OUT PANELS SHALL HAVE DOOR STOPS INCLUDED
ENSURE PANEL ARE SUPPLIED WITH DRIP SHIELDS AND FACTORY GASKETS.
AFFIX LAMINATED DRAWINGS TO THE INSIDE OF PANEL DOOR.

ENCLOSURE LAYOUT
48 X 48 X 14
DUPLEX
PUMP PANEL

SHEET DATA	
DESIGNED	DATE
DRAWN	BY
CHECKED	DATE
APPROVED	BY
CAD FILE NAME	

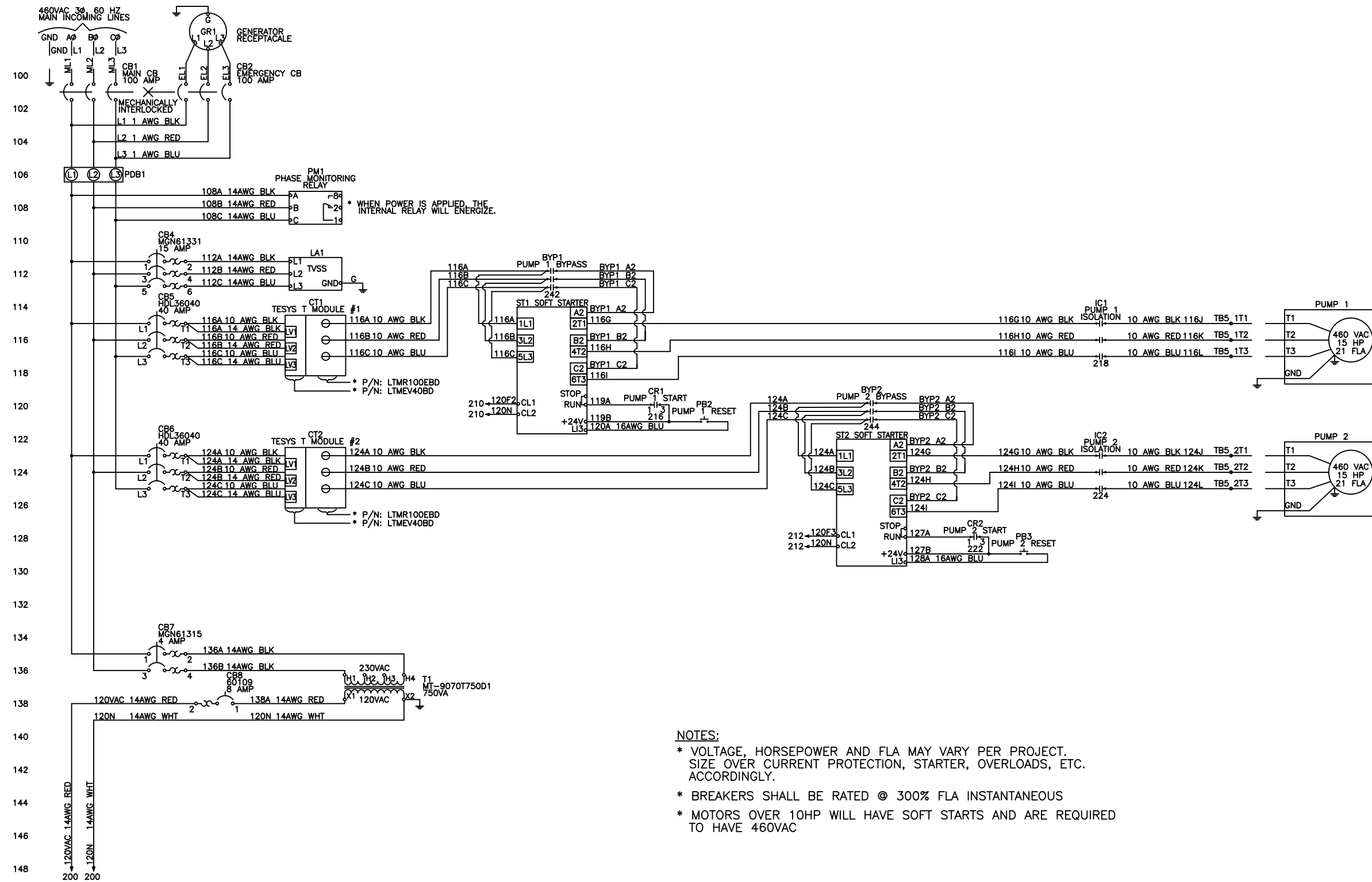
CALL OR VISIT OUR WEBSITE
FOR MORE INFORMATION
IT'S THE WAY WE LIVE
900 S.E. OGDEN LANE
PORT ST. LUCIE, FL 34983
PHONE (772) 873-6400 FAX (772) 873-6433

CITY OF PORT ST. LUCIE
UTILITY SYSTEMS DEPARTMENT
900 S.E. OGDEN LANE
PORT ST. LUCIE, FL 34983
PHONE (772) 873-6400 FAX (772) 873-6433

**SOUTHPORT LIFT STATION
SP 16 REPLACEMENT
CONTROL PANEL DETAILS**

KNOW WHAT'S BELOW
ALWAYS CALL 811
BEFORE YOU DIG
It's that's the way to live. It's the way to work.
www.call811.com

DAVID B. GARLAND
P.E. # 69547



- NOTES:**
- * VOLTAGE, HORSEPOWER AND FLA MAY VARY PER PROJECT. SIZE OVER CURRENT PROTECTION, STARTER, OVERLOADS, ETC. ACCORDINGLY.
 - * BREAKERS SHALL BE RATED @ 300% FLA INSTANTANEOUS
 - * MOTORS OVER 10HP WILL HAVE SOFT STARTS AND ARE REQUIRED TO HAVE 460VAC

**POWER CIRCUITS
460VAC, 3 PHASE, 60 HERTZ
DUPLEX
PUMP PANEL**

SHEET DATA	
BY	DATE
DESIGNED	
DRAWN	
CHECKED	
APPROVED	
CAD FILE NAME	

CALL OR VISIT OUR WEBSITE AT www.garland.com FOR MORE INFORMATION. IT'S THE WAY WE LIVE. CITY OF PORT ST. LUCIE, FLORIDA, INC. SOLE AND EXCLUSIVE AGENT FOR THE STATE OF FLORIDA. PHOTO COURTESY OF THE CITY OF PORT ST. LUCIE, FLORIDA. DRAWN BY GARLAND INC.

**CITY OF PORT ST. LUCIE
UTILITY SYSTEMS DEPARTMENT
900 S.E. OGDEN LANE
PORT ST. LUCIE, FL 34983
PHONE (772) 873-4400 FAX (772) 873-6433**



**SOUTHPORT LIFT STATION
SP 16 REPLACEMENT
CONTROL PANEL DETAILS**

KNOW WHAT'S BELOW
ALWAYS CALL 811
BEFORE YOU DIG
It's the way we live. It's the way we work.
www.call811.com
**DAVID B. GARLAND
P.E. # 65947**

SHEET DATA	
DESIGNED	DATE
DRAWN	BY
CHECKED	BY
APPROVED	DATE
CAD FILE NAME	

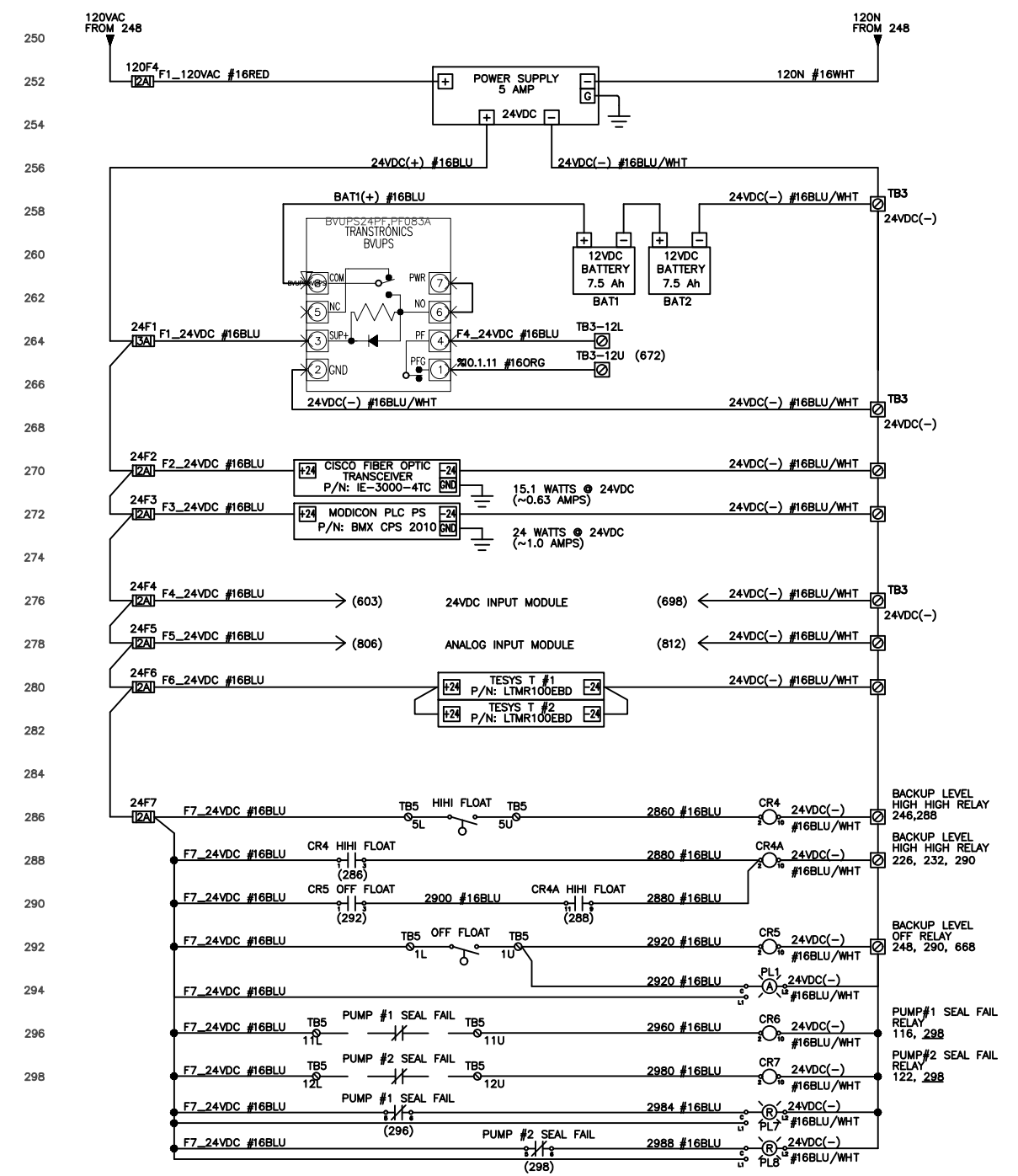
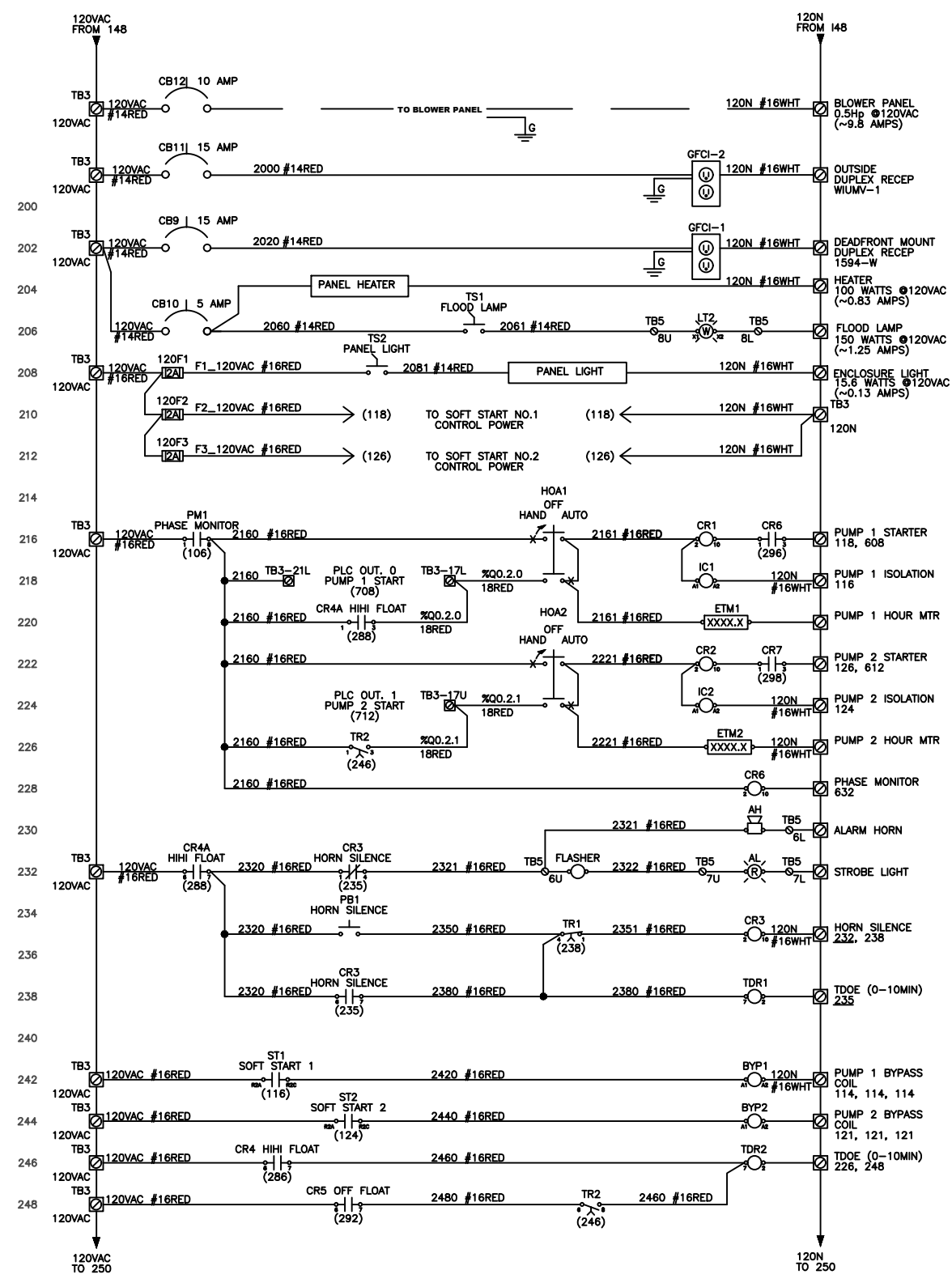
CALL OR FAX FOR MORE INFORMATION. IT'S THE WAY WE LIVE. WWW.CITYOFSTLUCIE.COM. SOUTHPORT LIFT STATION, PORT ST. LUCIE, FLORIDA. SOUTHPORT LIFT STATION, 900 S.E. OGDEN LANE, PORT ST. LUCIE, FLORIDA 34983. SOUTHPORT LIFT STATION, 900 S.E. OGDEN LANE, PORT ST. LUCIE, FLORIDA 34983. DRAWN BY: [REDACTED]. DATE: [REDACTED].

CITY OF PORT ST. LUCIE
UTILITY SYSTEMS DEPARTMENT
900 S.E. OGDEN LANE
PORT ST. LUCIE, FL 34983
PHONE (772) 873-5400 FAX (772) 873-5433

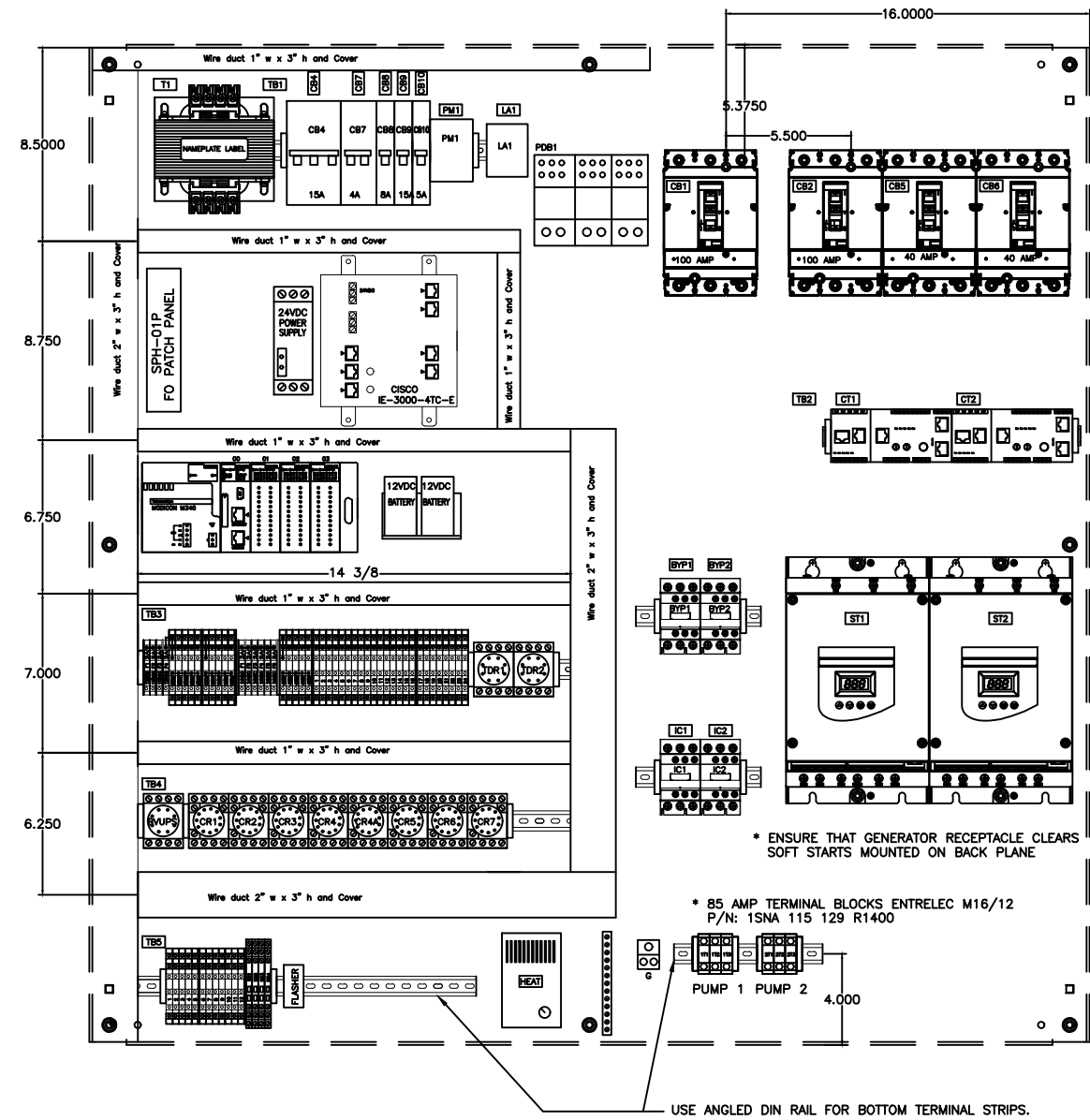
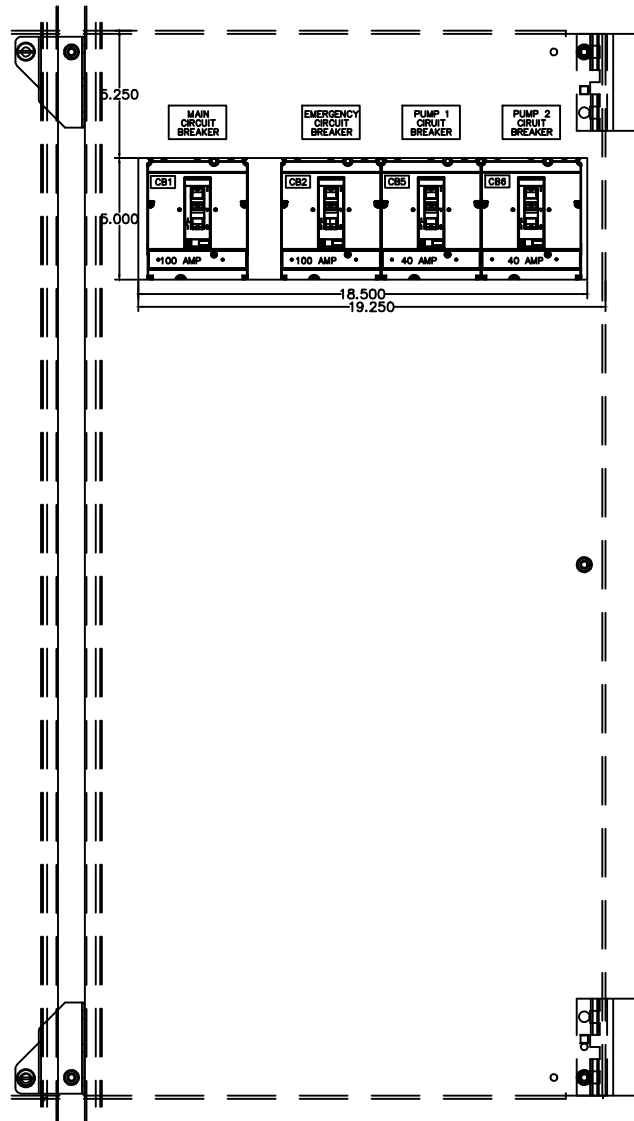
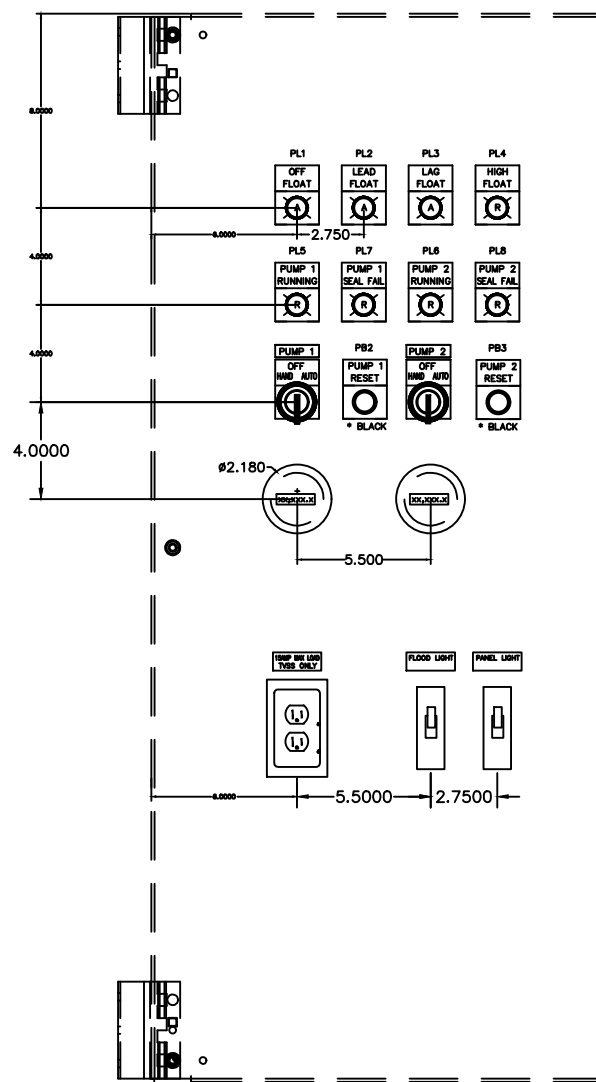
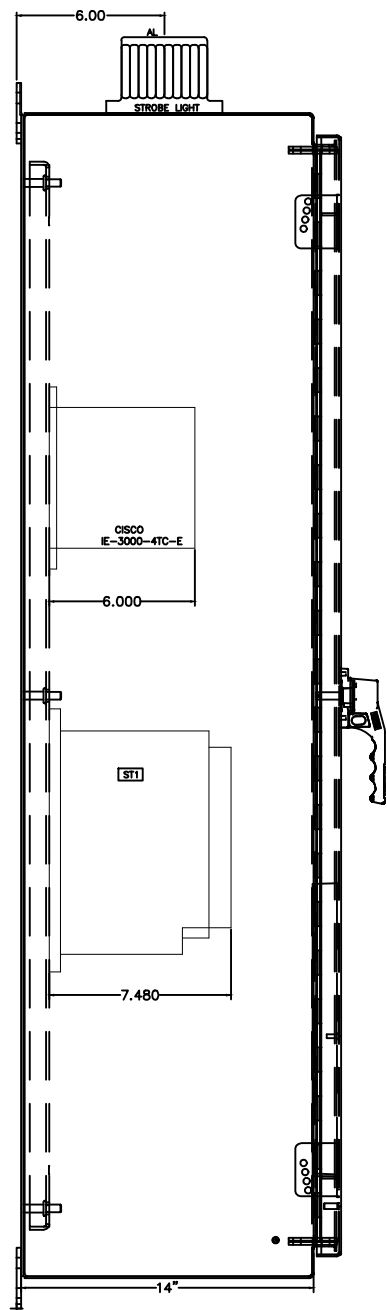


SOUTHPORT LIFT STATION
SP 16 REPLACEMENT
CONTROL PANEL DETAILS

KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG. In honor of the 811 program. www.call811fl.com. DAVID B. GARLAND P.E. # 68947



POWER CIRCUITS
 120VAC
 DUPLEX
 PUMP PANEL



JOB #: JXX-XXXX
 ENCLOSURE NAME: XXXX Pump Panel
 DRAWING: XXXX-LY-002
 ENCLOSURE UL TYPE: 4X
 VOLTAGE: 230 VAC
 S.C.C.R RATING: 10 KAIC RMS
 FUSE NUMBER, TYPE AND SIZE:
 120VAC F1-F4: 2 AMP GMA
 24VDC F1: 3 AMP GMA, 24VDC F2-F6: 2 AMP GMA
 FREQUENCY: 60 Hz
 FLA: 87.125 AMP
 PHASE: Three
 REC. TORQUE-TERMINAL BLOCKS: 4.4-7.1 LB.-IN.

PANEL LAYOUT
 48 X 48 X 14
 DUPLEX
 PUMP PANEL

SHEET DATA	
BY	DATE
DESIGNED	
DRAWN	
CHECKED	
APPROVED	
CAD FILE NAME	

CITY OF PORT ST. LUCIE
 UTILITY SYSTEMS DEPARTMENT
 900 S.E. OGDEN LANE
 PORT ST. LUCIE, FL 34983
 PHONE (772) 873-6400 FAX (772) 873-6433



SOUTHPORT LIFT STATION
 SP 16 REPLACEMENT
 CONTROL PANEL DETAILS

KNOW WHAT'S BELOW
 ALWAYS CALL 811
 BEFORE YOU DIG
 In Talk To The 811 Line
 www.call811.com