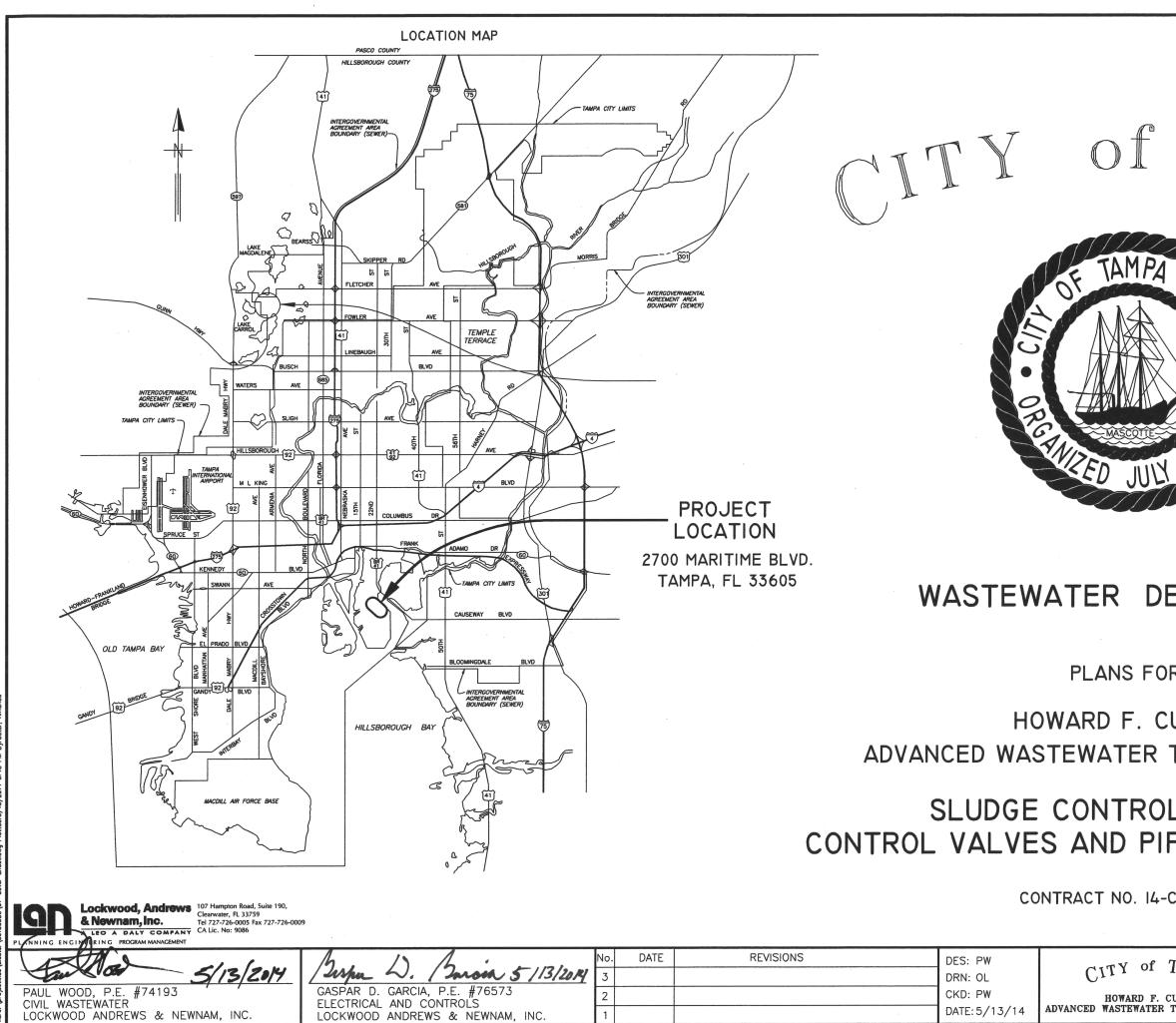
The Enclosed Document Is Provided For Your Convenience.

Please Email ALL Questions: <u>MailTo:ContractAdministration@TampaGov.net</u>

Please Let Us Know If You Plan To Bid

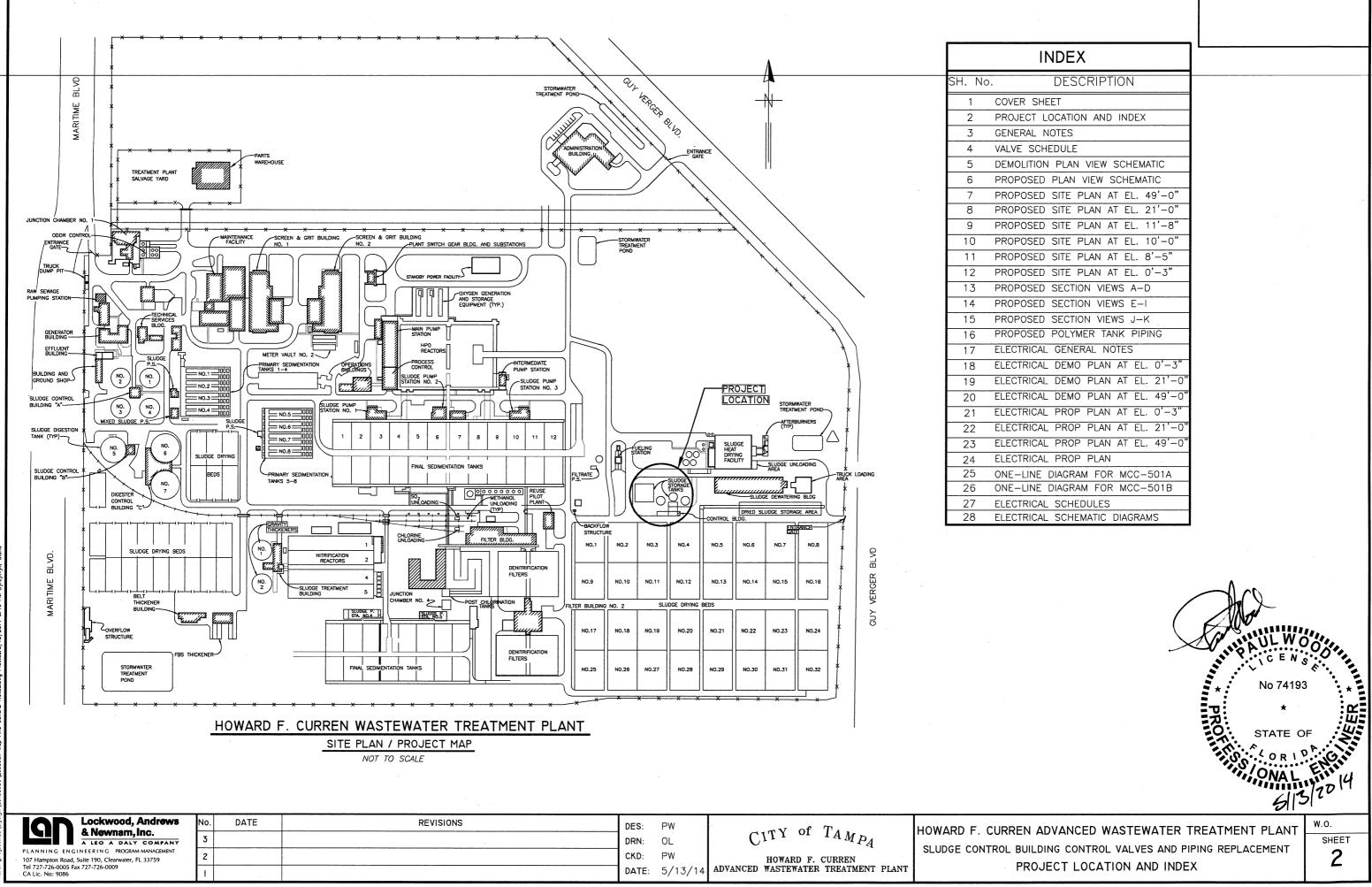
City of Tampa Contract Administration Department 306 E. Jackson St. #280A4N Tampa, FL 33602 (813)274-8456



	AMPA	
		1
EPARTM	1ENT	
DR		
CURREN TREATME	ENT PLANT	
)L BUILD IPING RE	ING EPLACEMENT	
-C-00029		
TAMPA		W.O. 4506 SHEET

HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT

COVER SHEET



in s -003/4-0--104. dwd

INDEX
DESCRIPTION
IVER SHEET
OJECT LOCATION AND INDEX
NERAL NOTES
LVE SCHEDULE
MOLITION PLAN VIEW SCHEMATIC
OPOSED PLAN VIEW SCHEMATIC
OPOSED SITE PLAN AT EL. 49'-0"
OPOSED SITE PLAN AT EL. 21'-0"
OPOSED SITE PLAN AT EL. 11'-8"
OPOSED SITE PLAN AT EL. 10'-0"
OPOSED SITE PLAN AT EL. 8'-5"
OPOSED SITE PLAN AT EL. 0'-3"
OPOSED SECTION VIEWS A-D
OPOSED SECTION VIEWS E-I
OPOSED SECTION VIEWS J-K
OPOSED POLYMER TANK PIPING
ECTRICAL GENERAL NOTES
ECTRICAL DEMO PLAN AT EL. 0'-3"
ECTRICAL DEMO PLAN AT EL. 21'-0
ECTRICAL DEMO PLAN AT EL. 49'-0'
ECTRICAL PROP PLAN AT EL. 0'-3"
ECTRICAL PROP PLAN AT EL. 21'-0
ECTRICAL PROP PLAN AT EL. 49'-0
ECTRICAL PROP PLAN
IE-LINE DIAGRAM FOR MCC-501A
IE-LINE DIAGRAM FOR MCC-501B
ECTRICAL SCHEDULES
ECTRICAL SCHEMATIC DIAGRAMS

GENERAL NOTES

- 1. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE CONTRACT ADMINISTRATION DEPARTMENT, WASTEWATER PERSONNEL AND AWTP OPERATIONS. THE FUNCTION OF THE AWTP SHALL NOT BE COMPROMISED AT ANY TIME.
- CONTRACTOR SHALL VERIFY QUANTITIES OF ALL NECESSARY PIPES, VALVES, REDUCERS, FITTING, 2 SUPPORTS, AND ANY MISCELLANEOUS BRACKETS.
- 3. SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER FOR ALL PROPOSED ITEMS. ALL SUBMITTALS AND SHOP DRAWINGS SHALL BE ORIGINALS OR HIGH QUALITY COPIES (CLEARLY LEGIBLE). NO FAXED SHEET OR POOR QUALITY COPIES WILL BE ACCEPTED FOR SUBMITTAL REVIEW.
- 4. OSHA STANDARD SAFETY EQUIPMENT, SUCH AS SAFETY HARNESSES, GAS MONITORS, LOWER EXPLOSIVE LIMIT (LEL) DETECTORS, BREATHING APPARATUS, PERSONAL RETRIEVAL SYSTEMS, ETC. SHALL BE UTILIZED WHERE THE WORK DICTATES THEIR USE.
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY AND THE CONTRACTOR IS SOLELY RESPONSIBLE TO CONSTRUCTION SAFETY. SPECIAL PRECAUTIONS MAY BE REQUIRED IN THE VICINITY OF POWER LINES AND OTHER UTILITIES.
- 6. THE CONTRACTOR'S WORK FORCE SHALL SECURE THEIR TOOLS, EQUIPMENT AND SUPPLIES DURING ALL PERIODS OF THEIR ABSENCE. IF REQUESTED, THE ENGINEER WITH AWTP PERSONNEL WILL DESIGNATE A CLOSE-BY LOCATION FOR THE CONTRACTOR'S TRAILER(S) AND/OR STORAGE BOX(ES)
- 7. 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 PERSONNEL AND THE PUBLIC.
- 8. ANY AREA DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION. THE COST OF ALL RESTORATION SHALL BE BORNE BY THE CONTRACTOR.
- ANY PLANNED SERVICE INTERRUPTION TO THE NORMAL PLANT OPERATION SHALL BE MADE IN 9. WRITING VIA THE ENGINEER IN SUFFICIENT ADVANCE NOTICE TO ALLOW THE AWTP PERSONNEL TO APPROVE/DISAPPROVE THE REQUEST A MINIMUM OF 2 WEEKS IN ADVANCE. INTERRUPTION SHALL BE KEPT TO THE MINIMUM DURATION AND FREQUENCY POSSIBLE.
- 10. WHENEVER A METALLIC VALVE, FITTING, SEPARATOR, OR CONNECTING MATERIAL DIFFERS FROM THE STEEL PIPE, A DIELECTRIC UNION OR "DIFFERENT MATERIAL ISOLATION ARRANGEMENT" SHALL BE INSTALLED. CONTRACTOR TO SUBMIT SYSTEM(S) FOR APPROVAL.
- 11. EXISTING VALVES SHALL ONLY BE CLOSED OR OPENED BY AWTP PERSONNEL. LIKEWISE, ALL AWTP EQUIPMENT SHALL ONLY BE DE-ENERGIZED OR ENERGIZED BY AWTP PERSONNEL.
- 12. ALL MATERIALS USED IN THE CONSTRUCTION OF THIS PROJECT SHALL BE NEW AND UNUSED AND SHALL CONFORM TO THE LATEST LOCAL JURISDICTION STANDARDS, UNLESS OTHERWISE NOTED.
- 13. ALL HARDWARE, UNLESS OTHERWISE NOTED, SHALL BE TYPE 316 STAINLESS STEEL.
- 14. THE CONTRACTOR SHALL UNCOVER AND VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING UTILITY CONNECTION POINTS PRIOR TO SCHEDULING CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY THE ENGINEER AND OWNER OF ANY DISCREPANCIES FOUND.
- 15. THE PROPOSED DIMENSIONS, ELEVATIONS AND LAYOUTS ARE DERIVED FROM EARLIER PLAN SETS AND VISUAL OBSERVATIONS. THE CONTRACTOR SHALL VERIFY THE DIMENSIONS, DETAILS AND SIZED PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF SIGNIFICANT DISCREPANCIES FROM THE PLANS.
- 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING STRUCTURES AND FACILITIES AND SHALL MAKE REPAIRS OR INSTALL NEW AT HIS OWN EXPENSE ANY DAMAGE CAUSED BY HIM, WITH NO COST TO THE CITY.
- 17. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE A REVIEW OF THE SITE TO DETERMINE EXISTING CONDITIONS AND ANYTHING NOT SHOWN ON THESE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- 18. CONTRACTOR SHALL PRESSURE TEST THE LINES AFTER THE WORK HAS BEEN COMPLETED. TESTING IS TO BE DONE BY OPERATING EACH PUMP FOR A MINIMUM OF 1-HOUR.

SUMMARY OF WORK

THIS PROJECT INVOLVES THE REMOVAL AND REPLACEMENT OF 60 VALVES ASSOCIATED WITH SLUDGE PIPING FOR DIGESTED SLUDGE. 21 OF THE VALVES ARE MANUALLY OPERATED, 35 OF THE VALVES ARE CURRENTLY MOTOR OPERATED VALVES (MOVs), QUARTER TURN, WITH OPEN/CLOSE ACTUATION, ONE VALVE IS CURRENTLY MOTOR OPERATED QUARTER TURN VALVE FOR MODULATION SERVICE, AND THREE VALVES ARE CURRENTLY PNEUMATICALLY OPERATED QUARTER TURN VALVES FOR OPEN/CLOSE SERVICE. ALL EXISTING VALVES WILL BE REMOVED. ALL EXISTING MOTOR OPERATORS WILL BE DISCONNECTED FROM ELECTRICAL AND INSTRUMENT SERVICE AND REMOVED. ALL EXISTING NON-ACTUATED VALVES ARE TO BE REPLACED. ALL EXISTING MOVS AND MOTOR OPERATORS ARE TO BE REPLACED WITH NEW MOVS AND MOTOR OPERATORS. EXISTING POWER AND INSTRUMENT CONNECTIONS SHALL BE RECONNECTED TO THE NEW ACTUATORS. ONE EXISTING MOTOR OPERATED MODULATING VALVE IS TO BE REPLACED WITH NEW VALVE AND MOTOR DRIVEN ACTUATOR FOR MODULATING SERVICE. THE THREE EXISTING PNEUMATICALLY OPERATED VALVES ARE TO BE REPLACED WITH NEW VALVES AND MOTOR DRIVEN ACTUATORS FOR OPEN/CLOSE SERVICE. NEW POWER SERVICE SHALL BE RUN TO THE THREE NEW VALVES. EXISTING 4-20mA INSTRUMENT CONNECTIONS PREVIOUSLY USED FOR OPERATING PNEUMATICALLY CONTROLLED VALVES WILL BE RECONNECTED TO THE NEW MOTOR OPERATORS FOR OPEN/CLOSE SERVICE.

PIPING REPLACEMENT WILL ALSO BE REQUIRED ON THE TWO EXISTING POLYMER TANKS

SEQUENCE OF CONSTRUCTION

THE CONTRACTOR MUST COORDINATE WITH THE WASTEWATER OPERATIONS PERSONNEL A MINIMUM OF TWO WEEKS PRIOR TO DEMOLITION AND REPLACEMENT WORK. THE CITY WILL COORDINATE WITH THE CONTRACTOR AS TO THE POSSIBILITY OF TAKING DOWN MULTIPLE STORAGE TANKS AT A TIME, BUT IT SHOULD BE ASSUMED THAT ONLY ONE STORAGE TANK MAY BE TAKEN DOWN AT ANY PARTICULAR TIME. THE CITY DESIRES THAT THE WORK ASSOCIATED WITH STORAGE TANKS 1. 2. AND 3 BE COMPLETED IN ITS ENTIRETY FIRST BEFORE COMMENCING WORK ON STORAGE TANKS 4 AND 5.

PRIOR TO TURNING OVER ANY WORK TO THE CITY, ALL PIPING AND VALVE SYSTEMS SHALL BE PRESSURE TESTED. ALL ELECTRICAL AND INSTRUMENTATION SYSTEMS SHALL BE CHECKED AND FUNCTIONALITY CONFIRMED.

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. CONTRACTOR SHALL RESTORE ALL PROPERTY THAT MAY HAVE BEEN DAMAGED DURING CONSTRUCTION TO ITS ORIGINAL CONDITION OR BETTER.

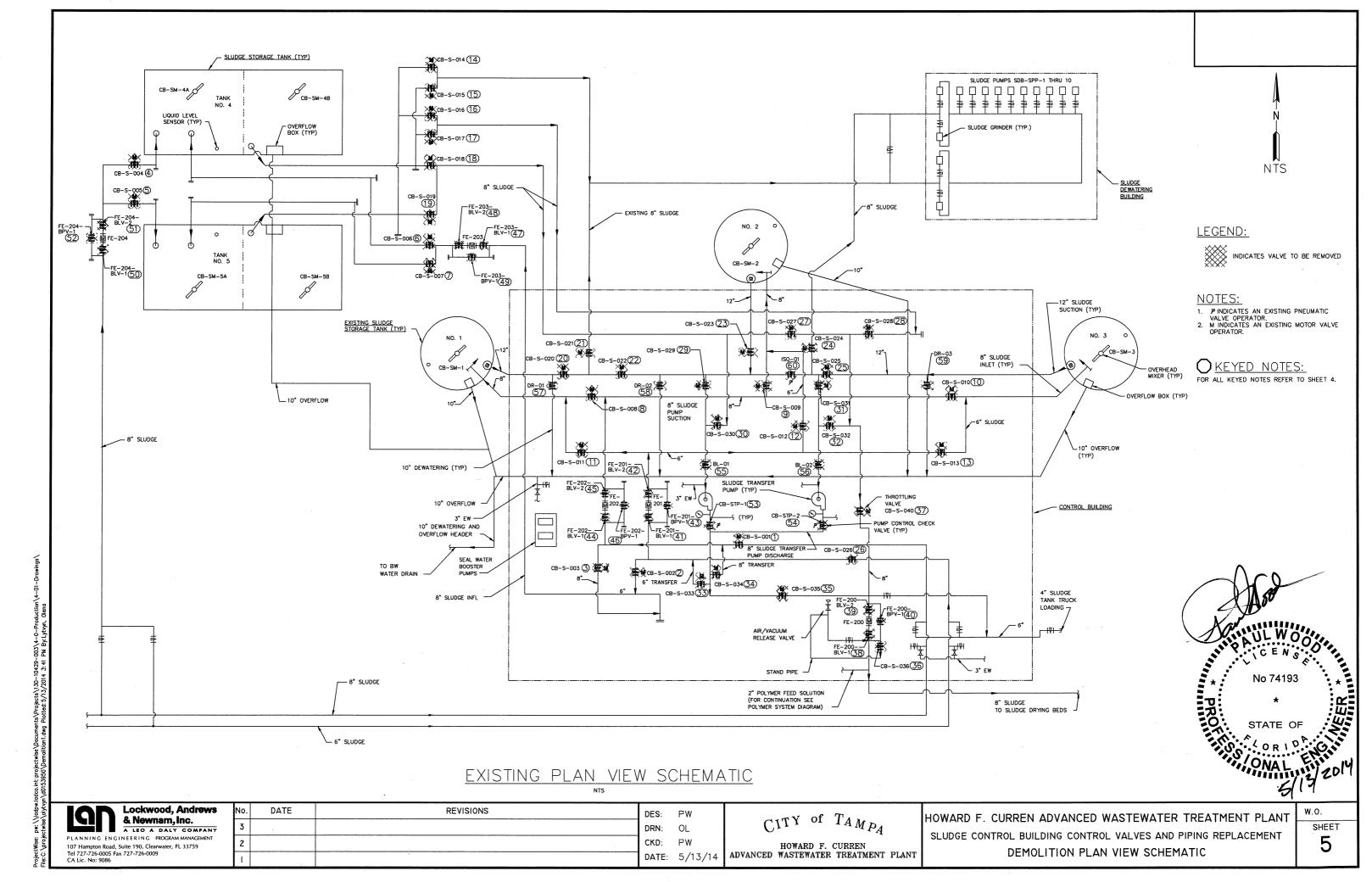
Lockwood, Andrews & Newnam, Inc.	No.	DATE	REVISIONS	DES:	PW	OUTY OF TAKE	HOWARD F. CURREI
A LEO A DALY COMPANY	3			DRN:	OL	C_{ITI} or $I_{A}M_{PA}$	
PLANNING ENGINEERING PROGRAM MANAGEMENT 107 Hampton Road, Suite 190, Clearwater, FL 33759	2			CKD:	PW	HOWARD F. CURREN	SLUDGE CONTROL BU
Tel 727-726-0005 Fax 727-726-0009 CA Lic. No: 9086	1			DATE:	5/13/14	ADVANCED WASTEWATER TREATMENT PLANT	· · · ·

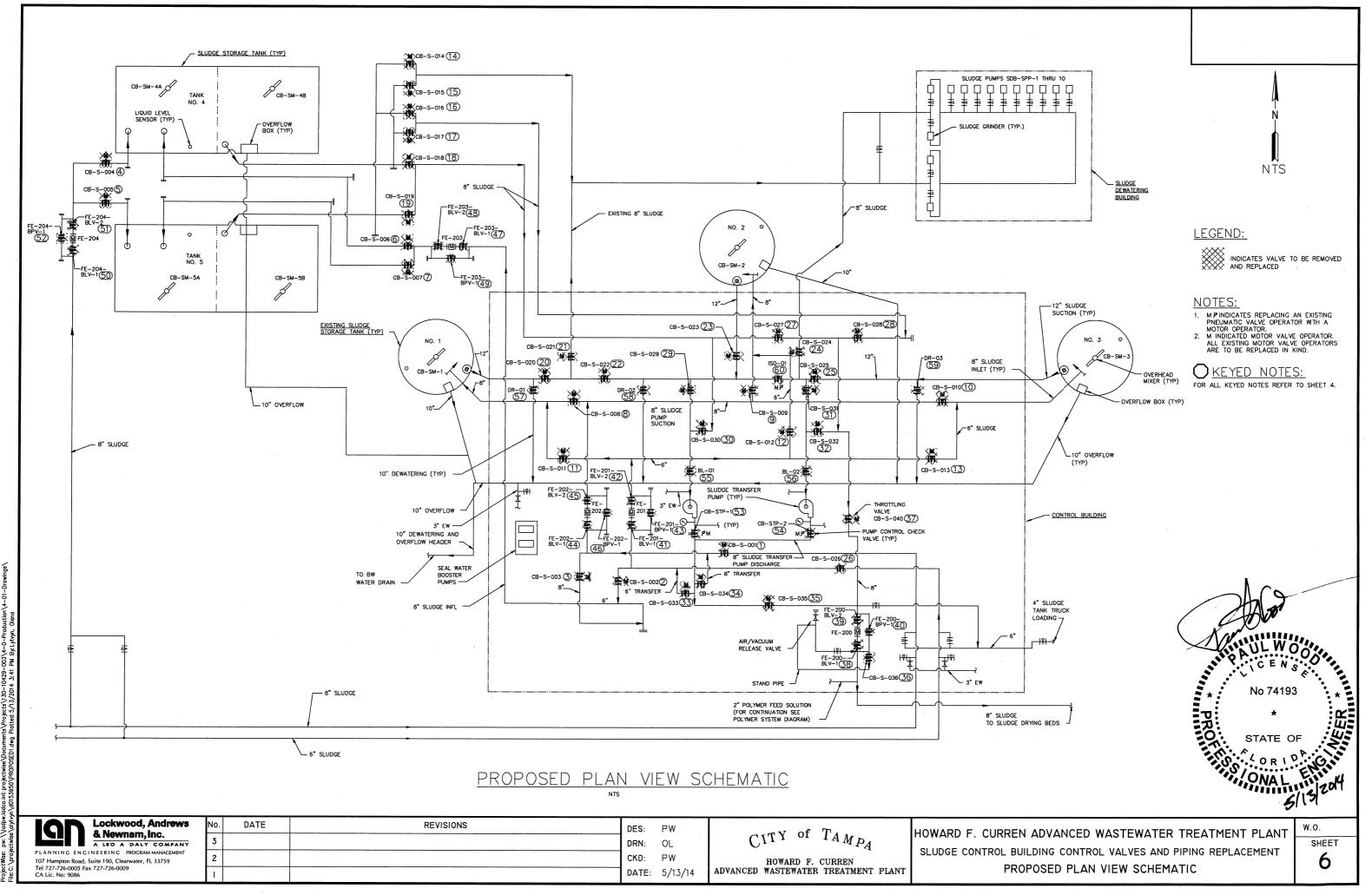
No 74193 RO STATE OF AND NAL IN 12014 3 61 W.O IN ADVANCED WASTEWATER TREATMENT PLANT SHEET JILDING CONTROL VALVES AND PIPING REPLACEMENT 3 GENERAL NOTES

ITEM	ITEM DESCRIPTION	VALVE SIZE	VALVE OPERATION	VALVE OPERATOR TYPE	DEMOLITION	INSTALLATION
1	CB-S-001	8"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-001 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-001 A
2	CB-S-002	6"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-002 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-002 A
3	CB-S-003	8"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-003 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-003 A
4	CB-S-004	8"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-004 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-004 A
5	CB-S-005	8"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-005 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-005 A
6	CB-S-006	8"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-006 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-006 A
7	CB-S-007	8"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-007 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-007 A
8	CB-S-008	8"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-008 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-008 A
9	CB-S-009	8"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-009 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-009 A
10	CB-S-010	8"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-010 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-010 A
11	CB-S-011	6"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-011 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-011 A
12	CB-S-012	6"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-012 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-012 A
13	CB-S-013	6"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-013 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-013 A
14	CB-S-014	8"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-014 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-014 A
15	CB-S-015	8"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-015 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-015 A
16	CB-S-016	8"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-016 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-016 A
17	CB-S-017	8"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-017 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-017 A
18	CB-S-018	8"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-018 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-018 A
19	CB-S-019	8"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-019 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-019 A
20	CB-S-020	12"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-020 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-020 A
21	CB-S-021	8"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-021 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-020 A
22	CB-S-022	12"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-022 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-022 A
23	CB-S-023	12"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-023 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-022 A
24	CB-S-024	8"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-023 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-023 A
25	CB-S-025	12"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-025 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-024 A
26	CB-S-026	6"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-026 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-025 A
27	CB-S-027	8"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-020 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-020 A
28	CB-S-028	8"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-027 AND ASSOCIATED ACTUATOR	
29	CB-S-029	8"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-028 AND ASSOCIATED ACTUATOR REMOVE VALVE CB-S-029 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-028 A INSTALL NEW VALVE CB-S-029 A
30	CB-S-030	8"	OPEN/CLOSE	MOTOR		
31	CB-S-030	8"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-030 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-030 A
32	CB-S-032	8"	I		REMOVE VALVE CB-S-031 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-031 A
33	CB-S-032	6"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-032 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-032 A
34	CB-S-033	8"	OPEN/CLOSE OPEN/CLOSE	MOTOR MOTOR	REMOVE VALVE CB-S-033 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-033 A
35	CB-S-035	8"			REMOVE VALVE CB-S-034 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-034 A
36	CB-S-035 CB-S-036	8"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-035 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-035 A
37	CB-S-036 CB-S-040	8"	OPEN/CLOSE	MANUAL	REMOVE VALVE CB-S-036	INSTALL NEW VALVE CB-S-036
38		8"	THROTTLING	MOTOR	REMOVE VALVE CB-S-040 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-040 A
39	FE-200-BLV-1	8"	OPEN/CLOSE	MANUAL	REMOVE VALVE FE-200-BLV-1	INSTALL NEW VALVE FE-200-BLV
40	FE-200-BLV-2	8"	OPEN/CLOSE	MANUAL	REMOVE VALVE FE-200-BLV-2	INSTALL NEW VALVE FE-200-BLV
41	FE-200-BPV-1	6"	OPEN/CLOSE	MANUAL	REMOVE VALVE FE-200-BPV-1	INSTALL NEW VALVE FE-200-BPV
41	FE-201-BLV-1	6"	OPEN/CLOSE	MANUAL	REMOVE VALVE FE-201-BLV-1	INSTALL NEW VALVE FE-201-BLV
42	FE-201-BLV-2	6"	OPEN/CLOSE	MANUAL	REMOVE VALVE FE-201-BLV-2	INSTALL NEW VALVE FE-201-BLV
	FE-201-BPV-1	8"	OPEN/CLOSE	MANUAL	REMOVE VALVE FE-201-BPV-1	INSTALL NEW VALVE FE-201-BP
44 45	FE-202-BLV-1	8"	OPEN/CLOSE	MANUAL	REMOVE VALVE FE-202-BLV-1	INSTALL NEW VALVE FE-202-BLV
	FE-202-BLV-2	o 8"	OPEN/CLOSE	MANUAL	REMOVE VALVE FE-202-BLV-2	INSTALL NEW VALVE FE-202-BL
46	FE-202-BPV-1	1	OPEN/CLOSE	MANUAL	REMOVE VALVE FE-202-BPV-1	INSTALL NEW VALVE FE-202-BP
47	FE-203-BLV-1	8"	OPEN/CLOSE	MANUAL	REMOVE VALVE FE-203-BLV-1	INSTALL NEW VALVE FE-203-BL\
48	FE-203-BLV-2	8"	OPEN/CLOSE	MANUAL	REMOVE VALVE FE-203-BLV-2	INSTALL NEW VALVE FE-203-BL\
49	FE-203-BPV-1	8"	OPEN/CLOSE	MANUAL	REMOVE VALVE FE-203-BPV-1	INSTALL NEW VALVE FE-203-BP\
50	FE-204-BLV-1	8"	OPEN/CLOSE	MANUAL	REMOVE VALVE FE-204-BLV-1	INSTALL NEW VALVE FE-204-BL\
51	FE-204-BLV-2	8"	OPEN/CLOSE	MANUAL	REMOVE VALVE FE-204-BLV-2	INSTALL NEW VALVE FE-204-BLV
52	FE-204-BPV-1	8"	OPEN/CLOSE	MANUAL	REMOVE VALVE FE-204-BPV-1	INSTALL NEW VALVE FE-204-BP\
53	CB-STP-1	8"	OPEN/CLOSE	EXIST. AIR ACTUATED	REMOVE VALVE CB-STP-1 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-STP-1 A
54	CB-STP-2	8"	OPEN/CLOSE	EXIST. AIR ACTUATED	REMOVE VALVE CB-STP-2 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-STP-2 A
55	BL-01	8"	OPEN/CLOSE	MANUAL	REMOVE VALVE BL-01	INSTALL NEW VALVE BL-01
56	BL-02	8"	OPEN/CLOSE	MANUAL	REMOVE VALVE BL-02	INSTALL NEW VALVE BL-02
57	DR-01	10"	OPEN/CLOSE	MANUAL	REMOVE VALVE DR-01	INSTALL NEW VALVE DR-01
58	DR-02	10"	OPEN/CLOSE	MANUAL	REMOVE VALVE DR-02	INSTALL NEW VALVE DR-02
59	DR-03	10"	OPEN/CLOSE	MANUAL	REMOVE VALVE DR-03	INSTALL NEW VALVE DR-03
60		12"				

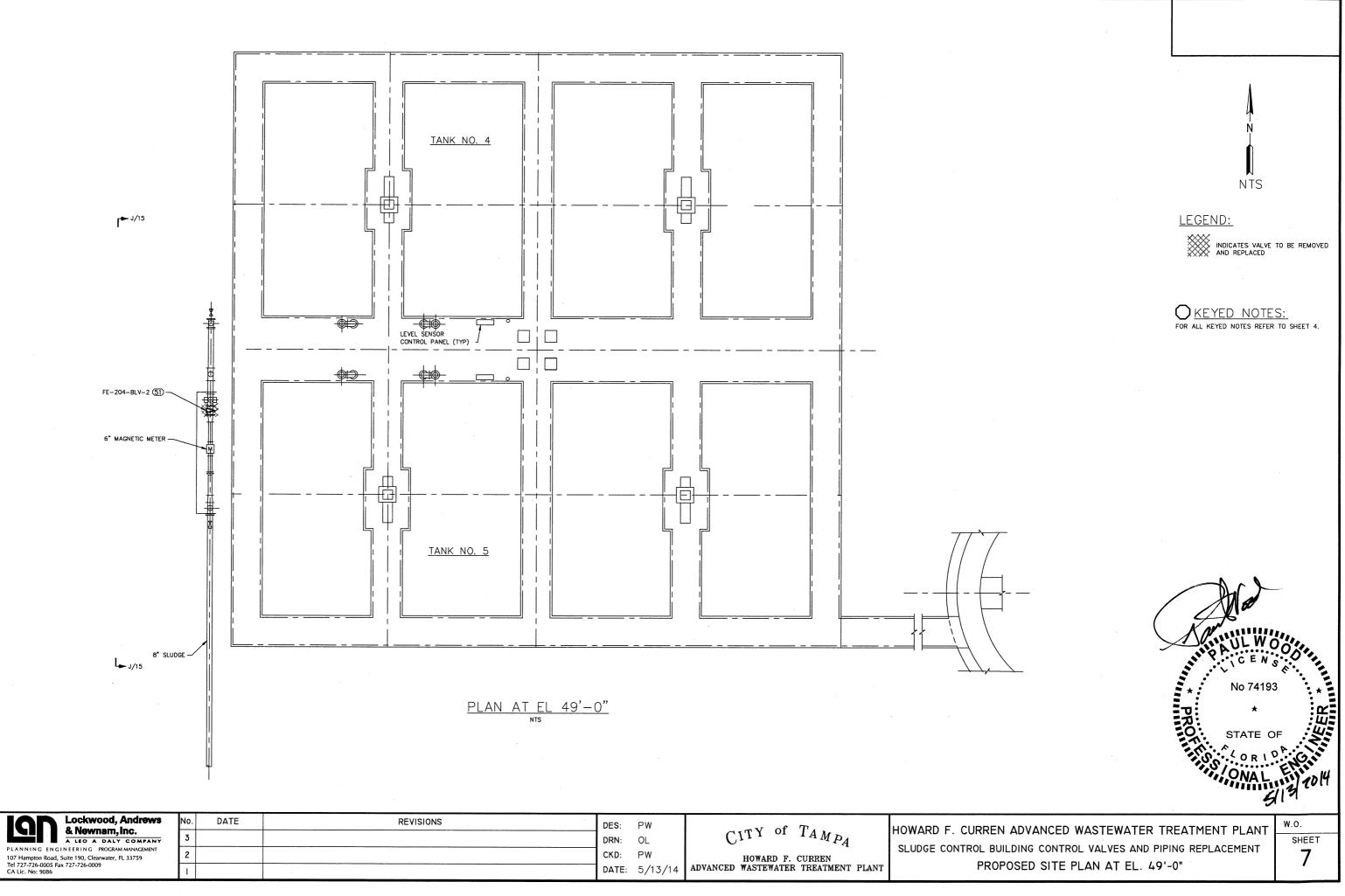
Lockwood, Andrews & Newnam, Inc.	No.	DATE	REVISIONS	DES:	PW	CITY OF TAKE	HOWARD F. CURRE
A LEO A DALY COMPANY	3			DRN:	OL	CITY OF TAMPA	
PLANNING ENGINEERING PROGRAM MANAGEMENT 107 Hampton Road, Suite 190, Clearwater, FL 33759	2			CKD:	PW	HOWARD F. CURREN	SLUDGE CONTROL B
Tel 727-726-0005 Fax 727-726-0009 CA Lic. No: 9086	1	-		DATE:	5/13/14	ADVANCED WASTEWATER TREATMENT PLANT	

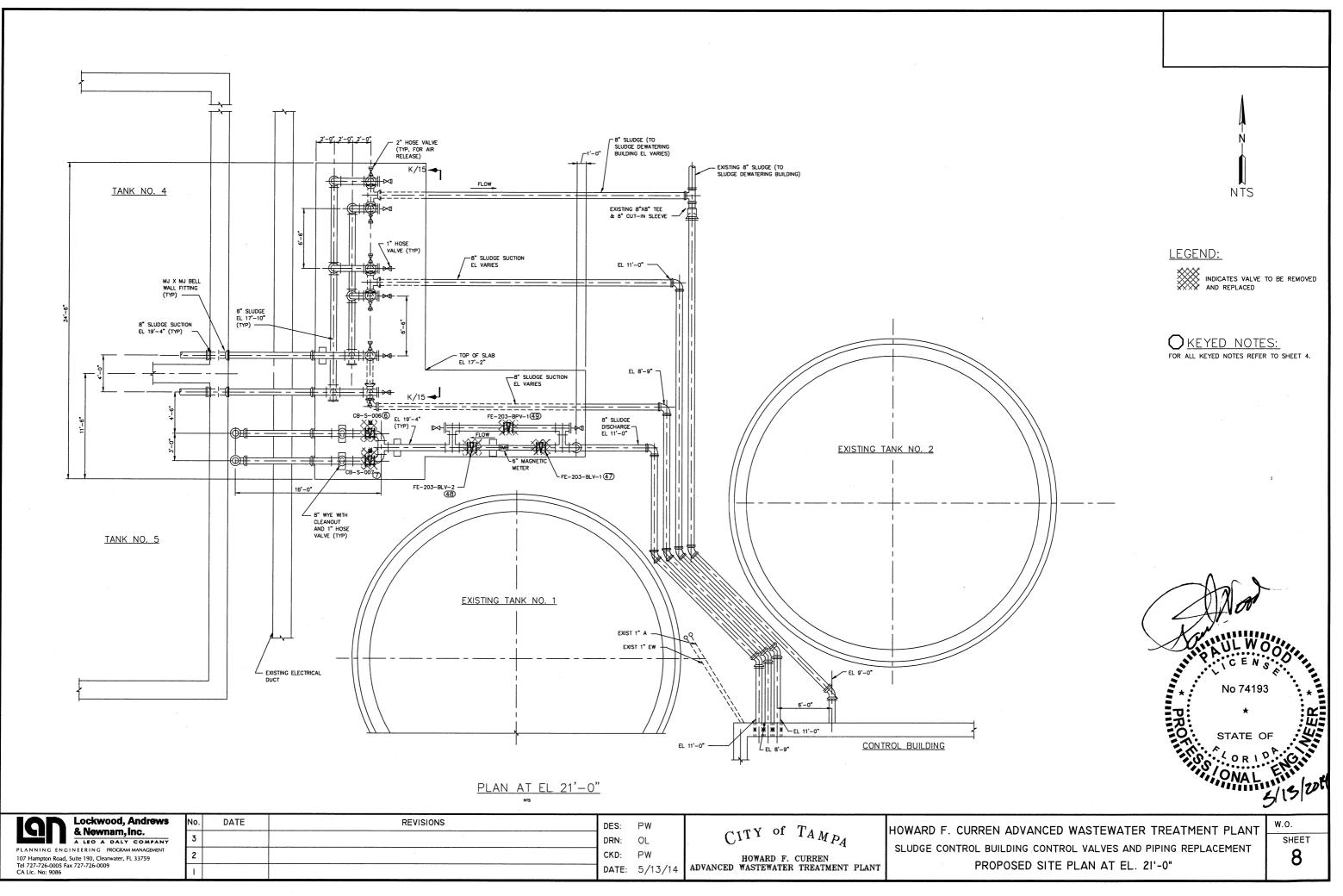
AND ASSOCIATED ACTUATOR 2 AND ASSOCIATED ACTUATOR AND ASSOCIATED ACTUATOR AND ASSOCIATED ACTUATOR 5 AND ASSOCIATED ACTUATOR GENERAL NOTES: AND ASSOCIATED ACTUATOR EXISTING AIR ACTUATORS ARE TO BE REPLACED WITH MOTOR ACTUATORS.
 EXISTING VALVES WITH CHAIN WHEEL OPERATORS ARE TO BE REPLACED IN KIND. AND ASSOCIATED ACTUATOR ' AND ASSOCIATED ACTUATOR 5 AND ASSOCIATED ACTUATOR 6 AND ASSOCIATED ACTUATOR 7 AND ASSOCIATED ACTUATOR 3 AND ASSOCIATED ACTUATOR AND ASSOCIATED ACTUATOR AND ASSOCIATED ACTUATOR 1 AND ASSOCIATED ACTUATOR 2 AND ASSOCIATED ACTUATOR 3 AND ASSOCIATED ACTUATOR AND ASSOCIATED ACTUATOR 5 AND ASSOCIATED ACTUATOR AND ASSOCIATED ACTUATOR BLV-1 SLV-2 BPV-1 BLV-1 3LV-2 BPV-1 BLV-1 SLV-2 BPV-1 BLV-1 BLV-2 No 74193 * STATE OF O R I D ONAL BPV-1 BLV-1 SLV-2 BPV-1 ACTUATOR ACTUATOR CTUATOR 12014 W.O. EN ADVANCED WASTEWATER TREATMENT PLANT SHEET BUILDING CONTROL VALVES AND PIPING REPLACEMENT 4 VALVE SCHEDULE

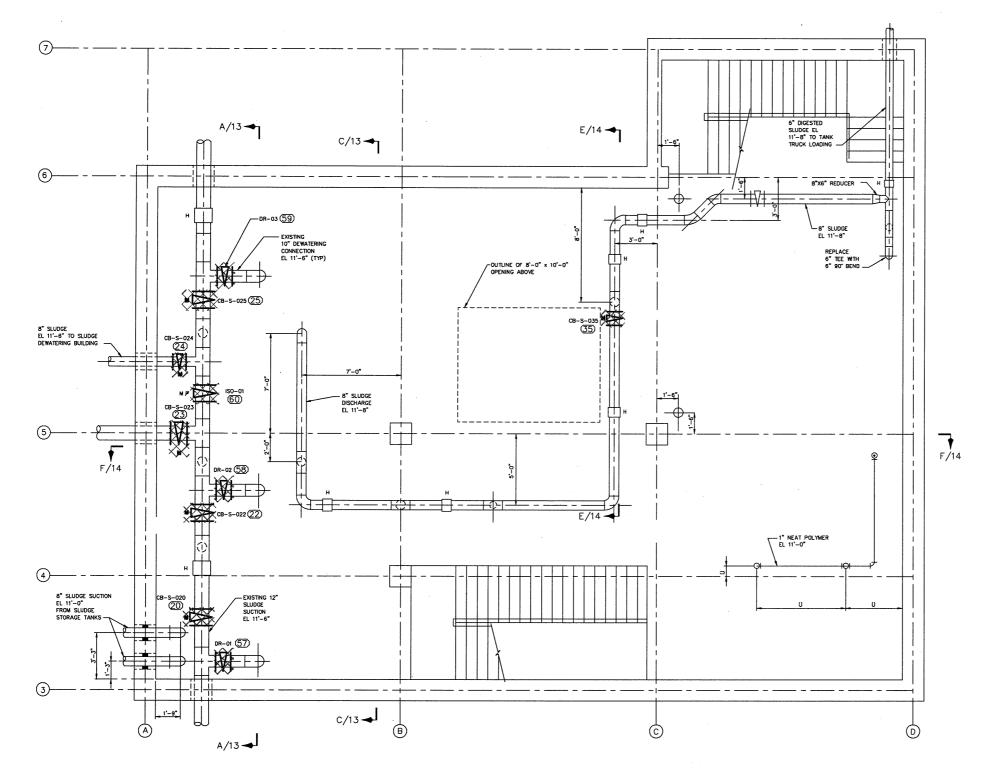




ise: pw: \\adpw.iadco.int: projectwise\Documents\Projects\130-10429-C



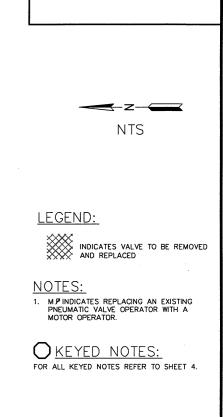


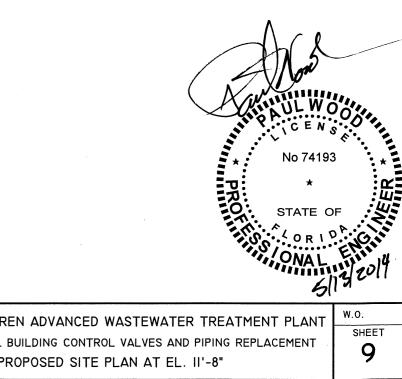


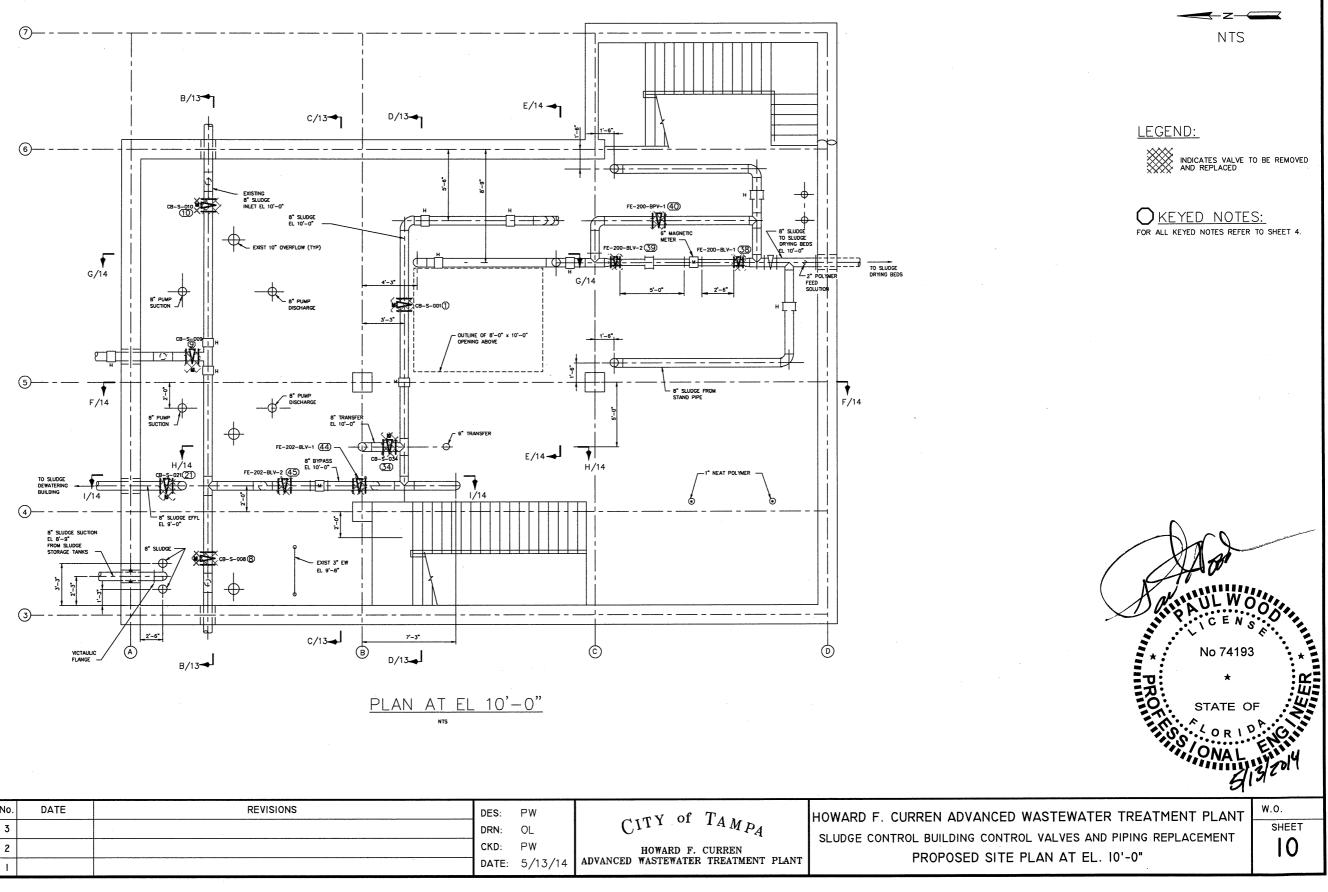
PLAN AT EL 11'-8"

Lockwood, Andrews & Newnam, Inc.	No.	DATE	REVISIONS	DES:	PW	OUTY OF TAKE	HOWARD F. CURRE
PLANNING ENGINE ERING PROGRAM MANAGEMENT	3			DRN:	OL	CITI OF TAMPA	SLUDGE CONTROL BU
107 Hampton Road, Suite 190, Clearwater, FL 33759 Tel 727-726-0005 Fax 727-726-0009 CA Lic. No: 9086	2			CKD: DATE:	PW 5/13/14	HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT	PRO

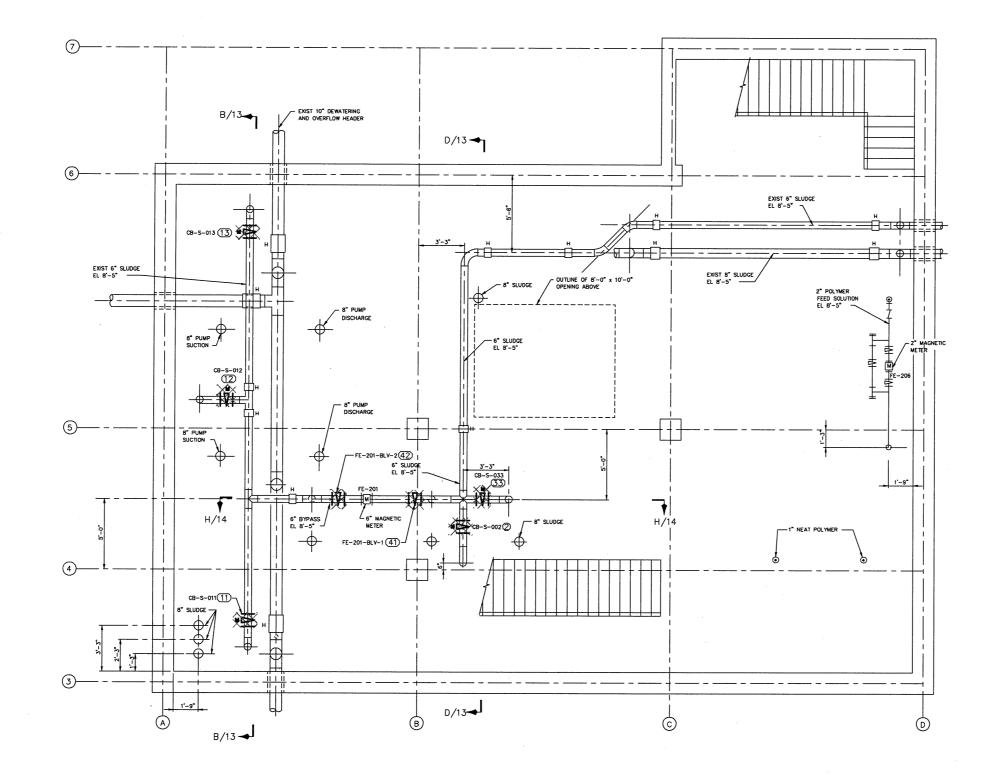
Wise: pw:\\vdpwilados.int: projectwise\Documents\Projects\J30-10429-003\4-0-Production\4-01-Drawings\ projectwise\nytvyn\d0153950\DEM0_EL11=8.dwg Platted:5/13/2014 3:42 PM ByrLytvyn Olema







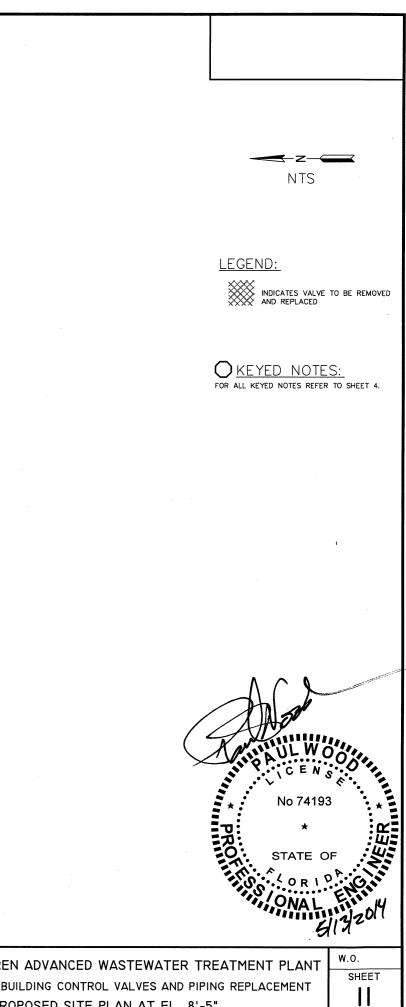
Lockwood, Andrews & Newnam, Inc.	No.	DATE	REVISIONS	DES:	PW	CITY of TAKE	HOWARD F. CURRE
PLANNING ENGINEERING PROGRAM MANAGEMENT	3			DRN:	OL	$C_{ITI} O I_{AMP_A}$	SLUDGE CONTROL BU
107 Hampton Road, Suite 190, Clearwater, FL 33759 Tel 727-726-0005 Fax 727-726-0009	2			CKD: DATE:	PW 5/13/14	HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT	
CA Lic. No: 9086				DATE:	3/13/14		



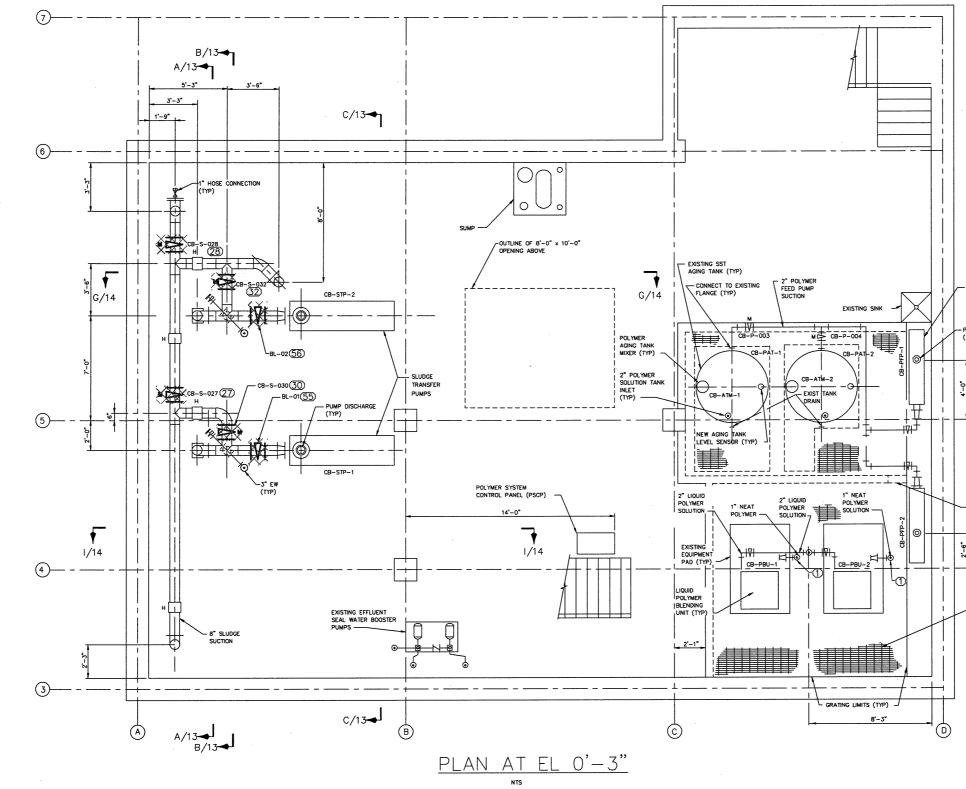
PLAN AT EL 8'-5"

Lockwood, Andrews & Newnam, Inc.	No. 3	DATE	REVISIONS	DES: DRN:	PW .	CITY of TAMPA	HOWARD F. CURRE
PLANNING ENGINEERING PROGRAM MANAGEMENT 107 Hampton Road, Suite 190, Clearwater, FL 33759 Tel 727-726-0005 Fax 727-726-0009 CA Lic. No: 9086	2 1			CKD:	PW 5/13/14	HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT	SLUDGE CONTROL E PR

Projec File: C:



ROPOSED SITE PLAN AT EL. 8'-5"

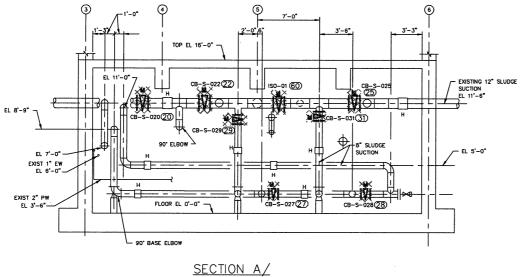


	No.	DATE	REVISIONS	DES:	PW	OUTY OF TAR	HOWARD F. CURREN
& Newnam, Inc.	3			DRN:	OL	$C_{III} \circ I_{AMPA}$	SLUDGE CONTROL BU
PLANNING ENGINEERING PROGRAM MANAGEMENT 107 Hampton Road, Suite 190, Clearwater, FL 33759	2			CKD:	PW	HOWARD F. CURREN	Dr
Tel 727-726-0005 Fax 727-726-0009 CA Lic. No: 9086	1			DATE:	5/13/14	ADVANCED WASTEWATER TREATMENT PLANT	

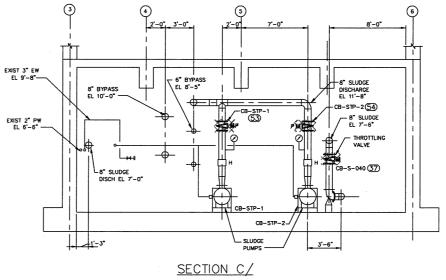
	LEGEND: INDICATES VALVE TO BE REMOVED AND REPLACED
- POLYMER FEED PUMP (TYP)	 KEYED NOTES: REFER TO SECTION A ON SHEET 16 FOR POLYMER PIPING TO TO BE REPLACED. FOR KEYED NOTES 27, 28, 30, 32, 55, AND 56 REFER TO SHEET 4.
-PUMP DISCHARGE (TYP)	
1	
- 1'-0" Opening on existing curb	
- 9 7	And
FIBERGLASS GRATING (TYP)	VIII UL WOOD
	• No 74193 •
	OR ID CON
	4/2/2014
	WATER TREATMENT PLANT W.O. SHEET I EL. 0'-3" W.O. SHEET I 2

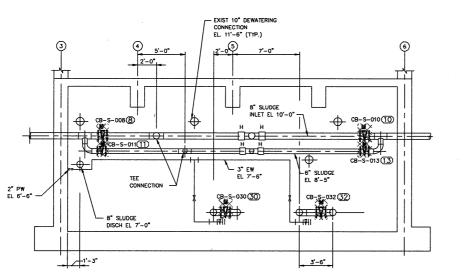
←z·

NTS

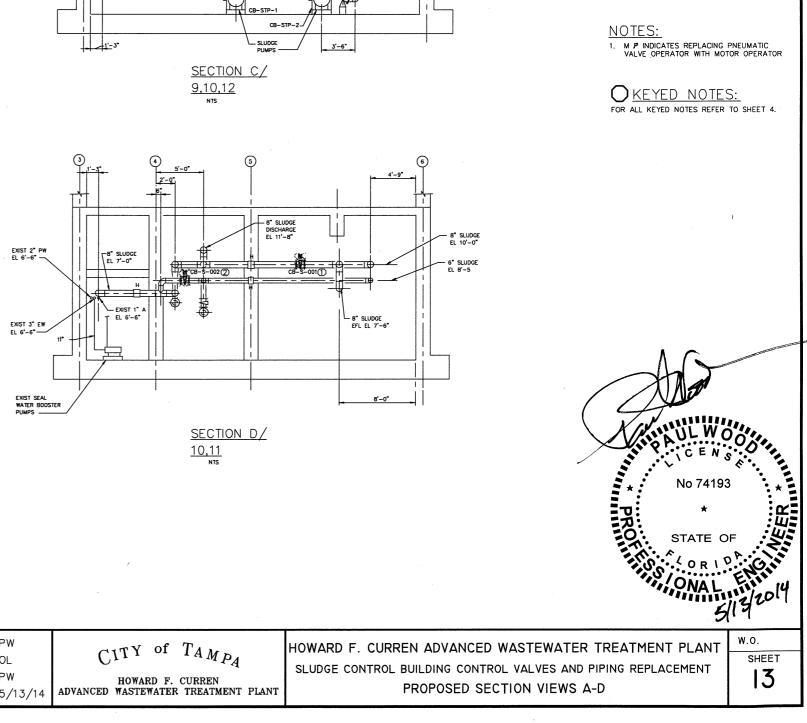


<u>9,12</u> NTS





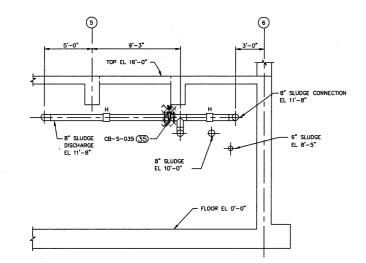
SECTION B/ 10,11,12 NTS

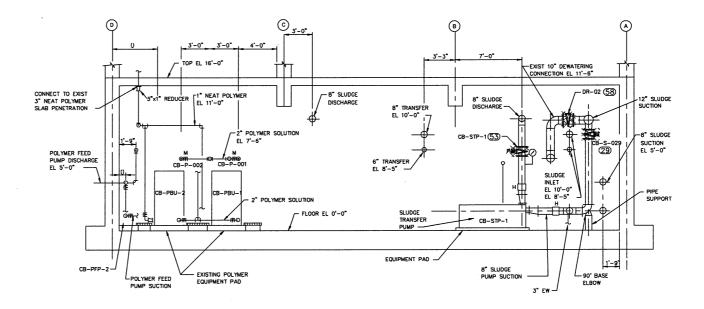


Lockwood, Andrews & Newnam, Inc.	No.	DATE	REVISIONS	DES:	PW	OTTY OF TAKE	HOWARD F. CURREN
PLANNING ENGINEERING PROGRAM MANAGEMENT	3			DRN: CKD:	OL PW	CITI II TAMPA	SLUDGE CONTROL BU
107 Hampton Road, Suite 190, Clearwater, FL 33759 Tel 727-726-0005 Fax 727-726-0009 CA Lic. No: 9086	1					HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT	Pf

LEGEND:

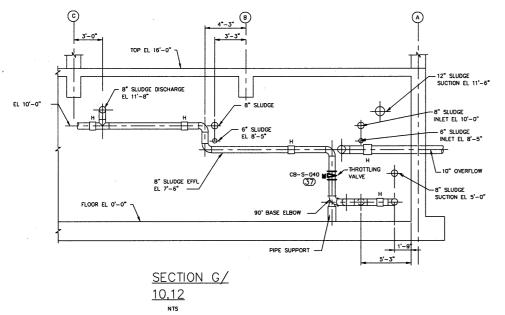
INDICATES VALVE TO BE REMOVED

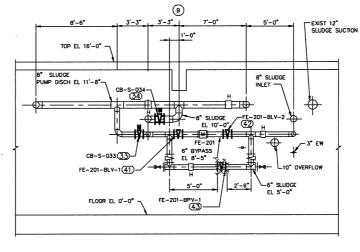




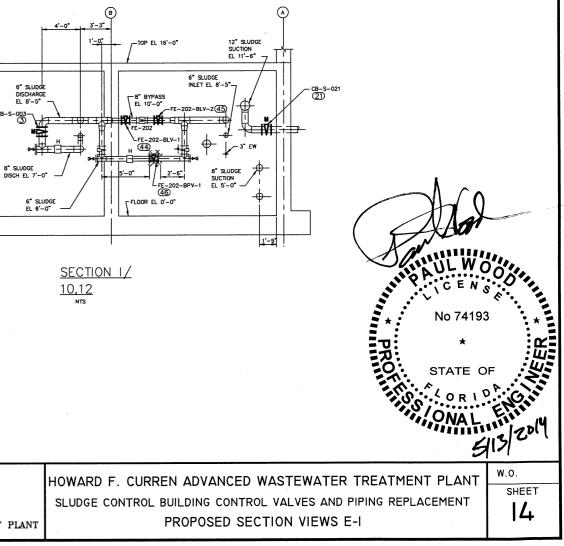
SECTION E/ <u>9,10</u> nts

SECTION F/ <u>9,10</u> nts





SECTION H/ 10,11 NTS



	No.	DATE	REVISIONS	DES:	PW	OTTY OF TAR	HOWARD F. CURREN
A LEO A DALY COMPANY	3	÷ .		DRN:	OL	C^{11} i or $IAMP_A$	SLUDGE CONTROL BU
PLANNING ENGINEERING PROGRAM MANAGEMENT 107 Hampton Road, Suite 190, Clearwater, FL 33759	2			CKD:	PW	HOWARD F. CURREN	P
Tel 727-726-0005 Fax 727-726-0009 CA Lic. No: 9086	1			DATE:	5/13/14	ADVANCED WASTEWATER TREATMENT PLANT	

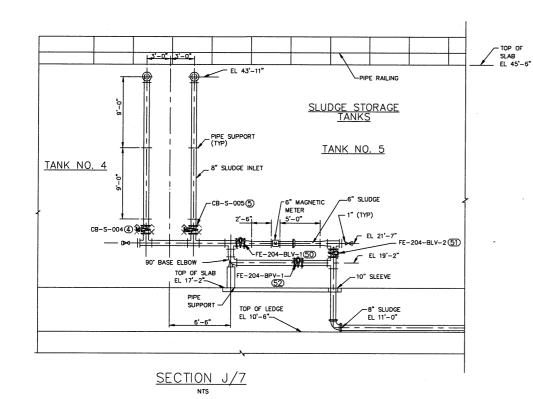
LEGEND:

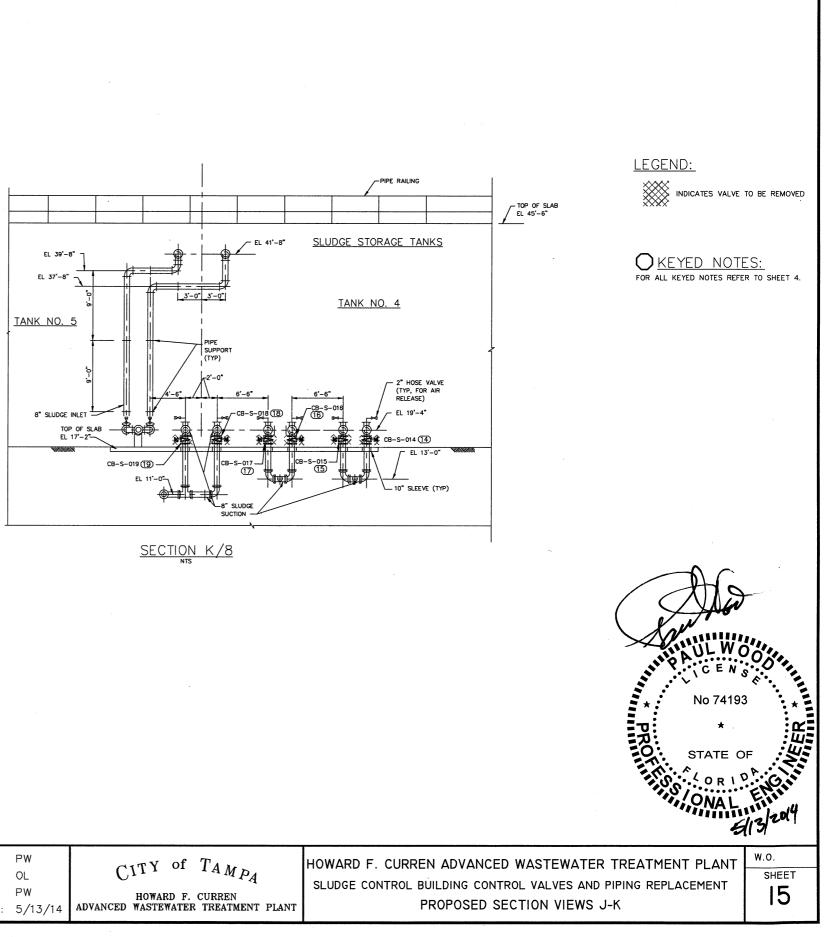
INDICATES VALVE TO BE REMOVED

NOTES:

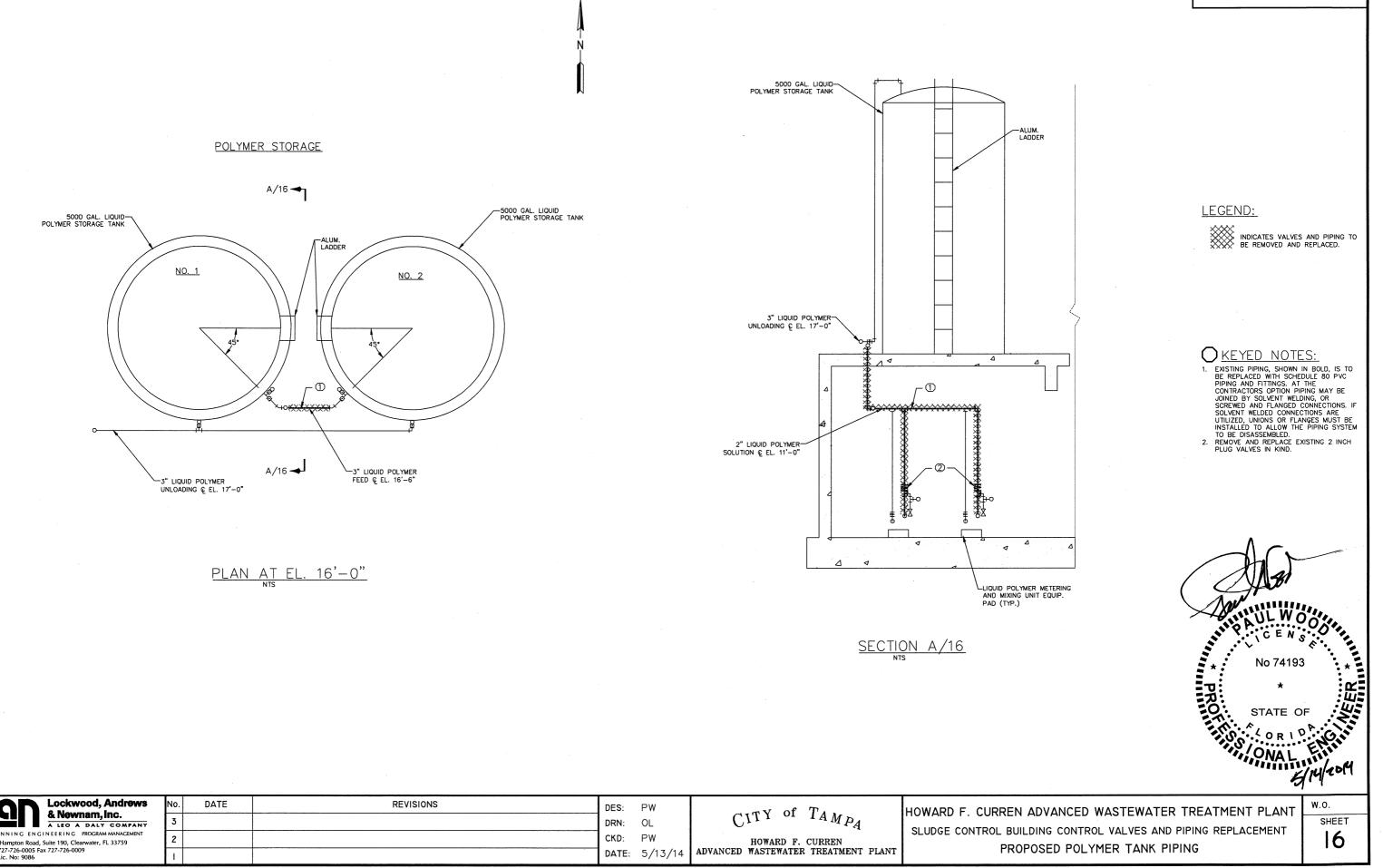
1. M ₱ INDICATES REPLACING PNEUMATIC VALVE OPERATOR WITH MOTOR OPERATOR

O<u>KEYED NOTES:</u> FOR ALL KEYED NOTES REFER TO SHEET 4.





	No.	DATE	REVISIONS	DES:	PW	and of The	HOWARD F. CURRE
& Newnam, Inc.	3		D	DRN:	OL	C_{1TY} of T_{AMP_A}	
PLANNING ENGINEERING PROGRAM MANAGEMENT 107 Hampton Road, Suite 190, Clearwater, FL 33759	2		1 I I I I I I I I I I I I I I I I I I I	CKD:	PW	HOWARD F. CURREN	SLUDGE CONTROL B
Tel 727-726-0005 Fax 727-726-0009 CA Lic. No: 9086			D	DATE:	5/13/14	ADVANCED WASTEWATER TREATMENT PLANT	ł



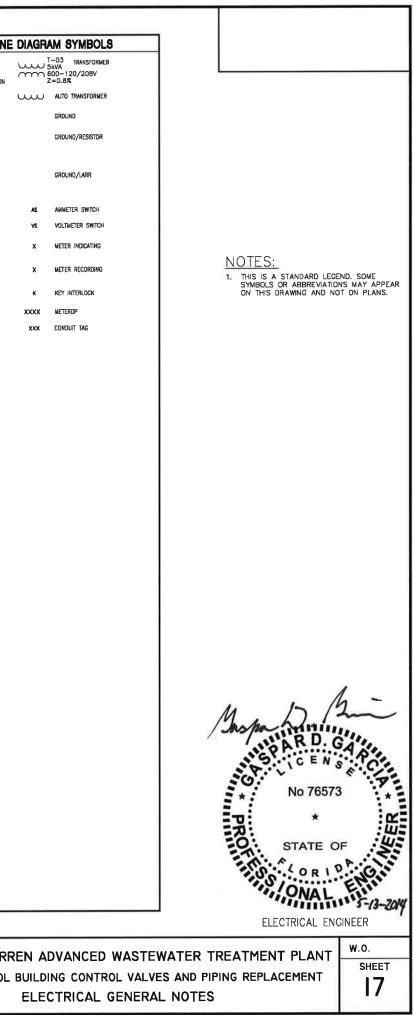
	No.	DATE	REVISIONS	DES:	PW	CITY OF TAR	HOWARD F. CURRI
& Newnam, Inc.	3			DRN:	OL	CITY OF TAMPA	SLUDGE CONTROL
PLANNING ENGINEERING PROGRAM MANAGEMENT 107 Hampton Road, Suite 190, Clearwater, FL 33759	2			CKD:	PW	HOWARD F. CURREN	D
Tel 727-726-0005 Fax 727-726-0009 CA Lic. No: 9086	1			DATE:	5/13/14	ADVANCED WASTEWATER TREATMENT PLANT	FI

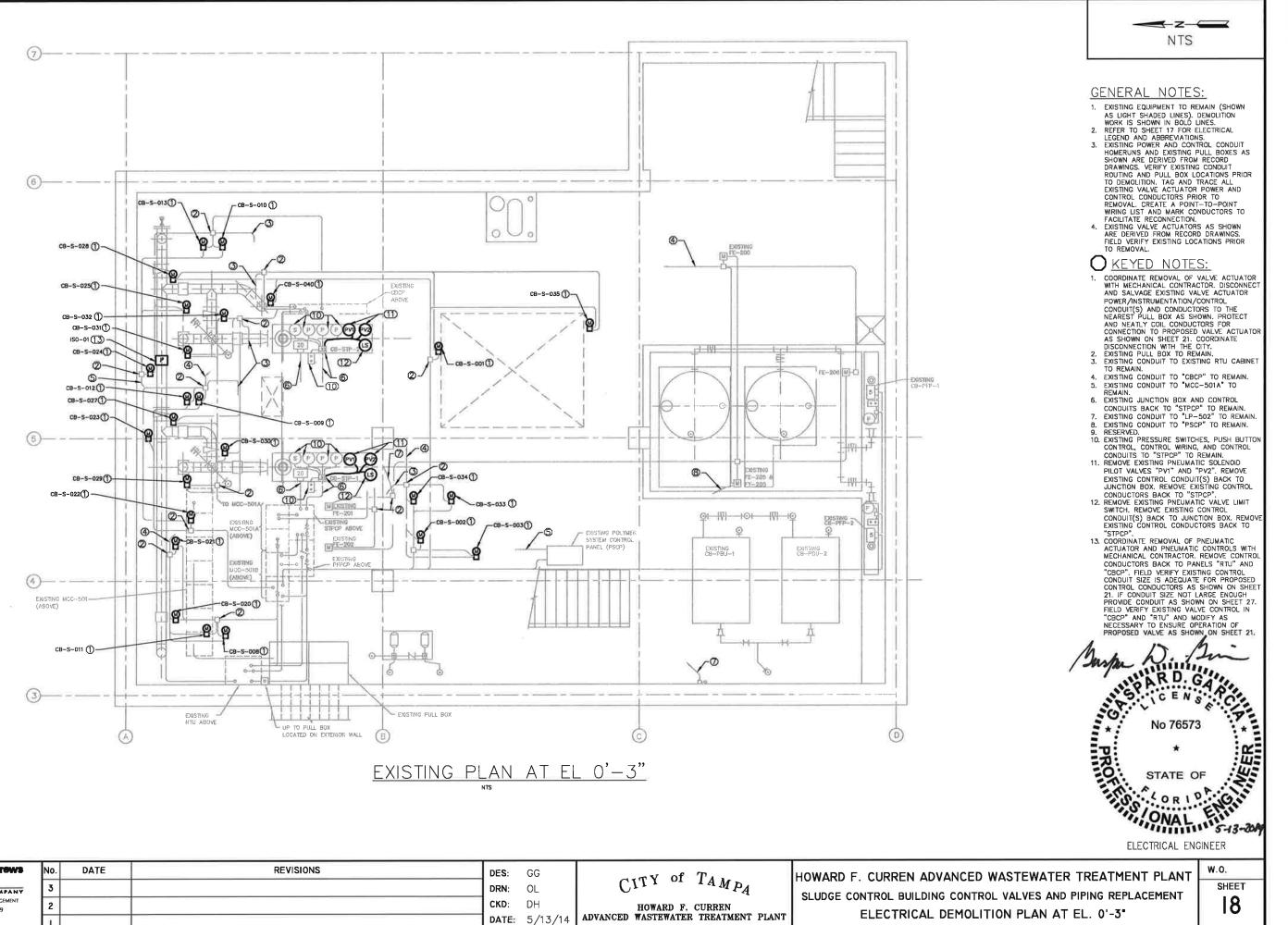
ABBF	REVIATIONS	GENERAL NOTES		POWER PLAN	SYMBO	LS		LIGH	TING PLAN SYMBOLS	SINGLE LI	NE DI/
A AMMETER, AMPERE, ADJ, STARLE, FREQUENCY DRAC AMPERE, FRAME AMPERE, FINSHED, GRANE AMPERE, SINCH, AMPERE, SJACON AMPERE, SINCH, AMPERE, SJACON AMPERE, SINCH, AMPERE, SJACON AMPERE,	L LIGHTING CONTACTOR, LOS LOCKOUT STOP PUSH BUTTOW SPEED CONCUT STOP PUSH BUTTOW RELAY LT FLEX 2020 TIGHT FLEX CONDUCT CONTACTOR COLL WGC WOTOR CONTROL CENTER WH WARHOL CONTACTOR COLL WCC WOTOR CONTROL CENTER WH WARHOL METAL HAUDE WO WOTOR OFERATOR WG WOTOR OFERATOR WG WOTOR OFERATOR WG WOTOR OFERATOR WG WOTOR OFERATOR WG WOTOR CONTACTOR WG WOTOR STARTER WG WOTOR OFERATOR WG WOTOR CONTACTOR WG WOTOR STARTER WG WOTOR STARTER WG WOTOR CONTACTOR WG WOTOR STARTER WG WGT WGTOR RELAY PH PHASE WGT RELEPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE RECOPTACLE REC	 CONTRACTOR SHALL SUBJIT SHOP DRAWINGS FOR APPROVAL PROR TO PURCHASING EQUIPALENT OR COMBINENCING CONSTRUCTION. ALL CONDUCTORS SHALL BE STRANDED COPPER, #12 AWG MIN. WITH THAN INSULATION, UNLESS OTHERWISE NOTED. DALL WIRNG SHALL BE IDENTIFIED WITH NUMBERS AT ALL TERMINALS AND ON WIRNG DIAGNAS. PIELD VERITY ALL EQUIPMENT LOCATIONS AND CONNECTIONS PRIOR TO COMMENCING CONSTRUCTION. ALL WIRNG SHALL BE IDENTIFIED WITH NUMBERS AT ALL TERMINALS AND ON WIRNG DIAGNAS. PIELD VERITY ALL EQUIPMENT LOCATIONS AND CONNECTIONS PRIOR TO COMMENCING CONSTRUCTION. ALL ELICTRICAL WORK SHALL BE PRETORINED IN ACCORDANCES. ALL THEADED CONNECTIONS SHALL BE COATED WITH COPPER SHIED ANTI-SEZE COMPOUND MANUTACTURED BY THOMAS & BETTS (T & B) OR EQUAL. ALL CONDUIT SHALL BE SUPPORTED TA MINIMUM CONPERTS SHIED ANTI-SEZE COMPOUND MANUTACTURED BY THOMAS & BETTS (T & B) OR EQUAL. ALL CONDUITS SHALL BE SUPPORTED TA MINIMUM SCIENCES OR CONDUCTOR RODUCTOR LENGTHS SHALL BE CONTINUOUS, NO SPLICES OR CONDUCTOR TERMINATIONS SHALL BE PERMITTED UNLESS SPECIFICALLY DESIGNATED IN THE DRAWINGS. ALL CONDUCTOR LENGTHS SHALL BE CONTINUOUS, NO SPLICES OR CONDUCTOR TERMINATIONS SHALL BE PERMITTED UNLESS SPECIFICALLY DESIGNATED IN THE DRAWINGS. NEATLY COLL ALL SPARE CONDUCTORS AND TAPE WITH VINTL ELECTRICAL EQUIPAUT IN ACCORDANCE WITH ATTICLE 110 OF THE NICK. ALL CONDUCTOR HANGENGE (CERW, BOLTS, NUTS, ETC.) SHALL BE 316-STAINLESS STEELE ASTENING HARGINARE (SCREW, BOLTS, NUTS, ETC.) SHALL BE 316-STAINLESS STEELE ASTENING HARGINARE (SCREW, BOLTS, NUTS, ETC.) SHALL BE 316-STAINLESS STEELE ASTENING HARGINGRE CONSTRUCTED OF FERCULS MATERIAL ARE NOT ACCEPTABLE. EXCREDE AND CONCRETE ENCASED CONDUIT SHALL BE SCHEDULE BO PVC, UNLESS OTHERWISE NOTED, WITH A TRANSITION TO ROLD ALLIMINUM CONDUIT. IN THE WETTICL. ENDED AND CONCRETE ENCASED CONDULT SHALL BE SCHEDULE BO PVC, UNLESS OTHERWISE NOT		POWER PLAN DUPLEX FLOOR MOUNTED QUAD SINGLE THREE PRONG SPLIT ISOLATED GROUND GFCI BREAKER GROUNG FAULT HALF SWITCHED COMBO 15/20A PATENT REF GROUND BUS SPECIAL CELLING MOUNTED WALL MOUNTED PULL BOX TV TELEVISION	\$YMBOI \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	LS SINGLE PHASE THREE PHASE MANUAL MAGNETIC 30A/3P DISCONNECT JON SOLUTION COMBO XFMR ATS VALVE ACTUATOR		STRIP FLUORESCED LETTER DENOTES I STRIP FLUORESCED LETTER DENOTES I FLUORESCENT LIGH FLUORESCENT LIGH 2x4 LETTER DENO FLUORESCENT LIGH 2x2 LETTER DENO STRIP FLUORESCED EXTERIOR POLE MI SURFACE OR RECO LETTER DENOTES I WALL MOUNT EXIT	TI LIGHT FIXTURE 1x4, TYPE TI LIGHT FIXTURE ON EMERGENCY 1x4 TYPE TI DIA EMERGENCY TI DIA EMERGENCY TI DIA EMERGENCY TI DIA EMERGENCY TI DIA EMERGENCY TI LIGHT FIXTURE, LETTER DENOTES TYPE OUNTED FIXTURE, LETTER DENOTES TYPE ESSED LIGHTING FOXTURE, TYPE LIGHT KIT LIGHT, ARROW DENOTES DIRECTION RE PACK FIXTURE 2- DOUBLE POLE 3- THREE WAY 4 - FOUR WAY CRE-CORROSDIN RESISTANT	 ATS	L.
E EMPTY EHE ELECTRIC HAND HOLD ED ELECTRIC OPERATOR EOPT EQUIPMENT SECOND SHITCH ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENTRY ENT	PINL PANEL PS PRESSURE SWITCH PT POTENTIAL TRANSFORMER PVC POLVININT, CHLORIDE CONDUIT R PRESEPTIALE REDD REEXIPTIALE REDD REEXIPTIALE REDDTERUIED REDDTERUIED REDUTE RELINITY RT REMOTE RELINITY RVMR REDUCED VOLTAGE	 DIRECT BURED AND CONCRETE ENCASED CONDUIT SHALL BE SCHEDULE 80 PVC, UNESS OTHERWISE NOTED, WITH A TRANSITION TO RICE ALUANUM IN THE VERTICAL RUN AT LEAST ONE FOOT PRIOR TO EMERGENCE. ALL ALUMINUM SURFACES IN CONTRACT WITH SOL CONCRETE, AND OTHER INCOMPATIBLE WATERIALS SHALL BE CONTED WITH TWO COATS OF BITUMASTIC OR OTHER APPROVED INSULATING MATERIAL. SAROVE GRADE INDOOR AND NON-WASHDOWN REAS, RICED ALUMINUM CONDUIT CONVECTIONS TO CONTROL BOXES, ETC. SHALL BE MADE WITH ALUMINUM DOUBLE LOCKIETS AND BUSIENSS. TURN DOWN ON THREADS TO SOLIDY CONNECT RACEWAY TO BOX OR ENGLISHES. TURN DOWN ON THREADS TO SOLIDY CONNECT RACEWAY TO BOX OR ENGLISHES. TURN DOWN ON THREADS TO SOLIDY CONNECT RACEWAY TO BOX OR ENGLISHES. TURN DOWN ON THREADS TO SOLIDY CONNECT NOT CONTROL BOXES, STEEL CHANNEL ERECTOR SYSTEM SHALL BE USED TO SUIPORT ALL CONDUTS, BOXES, ETC. WEATH STATUS AND AND AND AND AND AND AREAS. A JIG-STANLESS STEEL CHANNEL ERECTOR SYSTEM SHALL BE USED TO SUIPORT ALL CONDUTS, ROES, ETC. USE 316-STANLESS STEEL MOUTING HARDWARE IS THE CONTRACTOR SHALL FED VERY EXISTING CONTROLS AND HARDWARE ALL CONDUTS REFERENCE ONLY. ALL EXISTING INSTALLATIONS SOLECTIONS TO SUBJETTING A IS NOTED AND INFORMING ARE FOR THE CONTRACTOR'S REFERENCE ONLY. ALL EXISTING INSTALLATIONS SHALL BE INSTALLATIONS PULL BOXES SHALL BE INSTALLED AS NECESSARY TO FOLLIDATE WHE PULLS AND TO AND DACESSINE ULING TENSION ON WIRING, IN COASE SHALL BE INSTALLED AND TO CONTRACTOR'S REFERENCE ONLY. ALL EXISTING INSTALLATIONS STALL BE INSTALLED AND TO AND DACESSINE ULING TENSION ON WIRING AND FOR CONSTRUCTION. NOT DAVID DACESSINE VILLING TENSION ON WIRING AND EXAGE STALL SAND TO AND DACESSINE ULING TENSION ON WIRING. AND DAVE CONSTRUCTION. WITHOUT A PULL BOXES SHALL BE INSTALLED AS NECESSARY TO ROLLINE THEOR DACEED ISO'OR THE EQUIVALENT OF FOUR QUARTER BENDS (SAD DEGRESS TOTAL) WITHOUT A PULL BOXES SHALL BE INSTALLED AS NECESSARY TO ROLLINGE WITH ATCLE DATED. ADDIA CONSTRUCTION AND AND AND ROM ROM CONS CAS DECRESS TOTAL) WITHOUT A PULL BOXES S	© ♀ ● ■	CEILING MOUNTED WALL MOUNTED PULL BOX TV TELEVISION POWER COMMUNICATIONS			<u>LTG-</u>	EMERGENCY WALL- -SWITCH SWITCH:	-PACK FIXTURE 2- DOUBLE POLE 3- THREE WAY 4- FOUR WAY CRE-CORROSION RESISTANT	meter revenue Motor	x; ;
DROUND FAULT RELAY CNO GROUND FAULT RELAY H HIGH SPEED HH HANDHOLE DISCHARGE DISCHARGE HO HIGH REPASSURE SODIUM HS HAND SWITCH CONTROL DISTRIBUTION AND CONTROL NCAND INCANDESCENT	TB TERMINU BOARD TC THE CLOSE TD TEMPERATURE DETECTOR RELAY TOR THE DELAY RELAY TOR THE DELAY RELAY TO THE OPEN TO TRANSPORTER TEMPERATURE SMITCH TS TIME OPEN TEMPERATURE SMITCH TS TIMES SHELDED TRAD TYP TYPICA. UN UNIT HEATER UON UNLESS OTHERWISE NOTED SYMBOLS	314 OF THE NEC. 21. VERIY ALL EQUIMENT SIZES AND RATING PRIOR TO CONNECTING. 22. ALL PANELS, DISCONNECTS, SWITCHES, AND EQUIMENT COVER PLATES SHALL BE LABELED WITH NAMEDATES. NAMEURATE SHALL BE THREE-PLY PHIODUC BLACK-WHITE-BLACK ENGRAVED THROUGH THE FIRST BLACK LAYER. LETTERING SHALL BE 0.5 CM (3/15") MINIMUM EDGE OF NAMEPLATE SHALL BE BEVELED 45 DEG.		LA-2 HOWE RUN - DESTINATION	n Shown		OS PE	Ceiling Mounted Photoelectric Si	OCCUPANCY SENSOR	VALVE ACTUATOR	

- POINT OF CONN

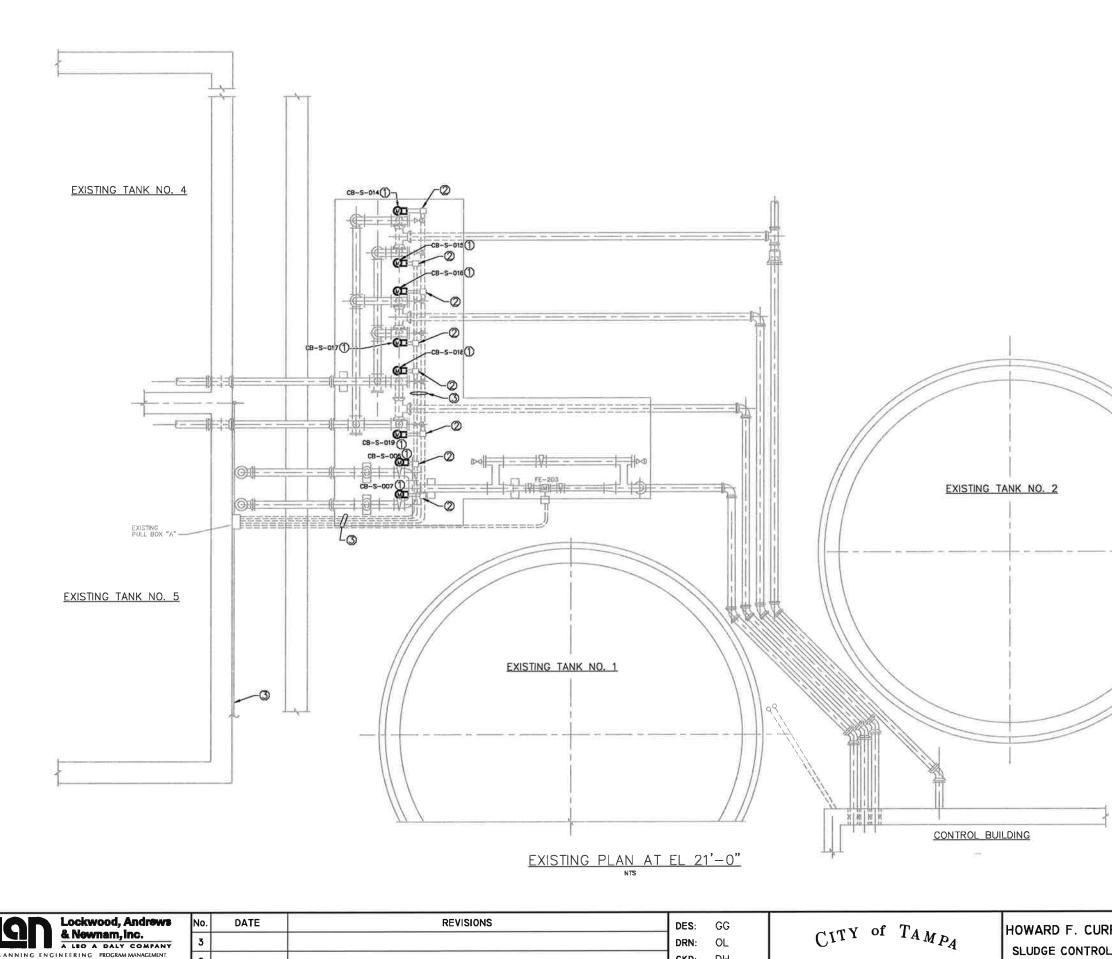
A/X SECTION NO./SHEET NO.

	No.	DATE	REVISIONS	DES:	GG	OUTY OF TAR	HOWARD F. CURRI
A LEG A DALY COMPANY	3			DRN:	OL	CITY of TAMPA	SLUDGE CONTROL E
PLANNING ENGINEERING PROGRAM MANAGEMENT 107 Hampton Road, Suite 190, Clearwater, FL 33759	2			CKD:	DH	HOWARD F. CURREN	
Tel 727-726-0005 Fax 727-726-0009 CA Lic. No: 9086	T			DATE:	5/13/14	ADVANCED WASTEWATER TREATMENT PLANT	

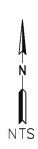




	No.	DATE	REVISIONS	DES:	GG	CITY of TAKE	HOWARD F. CURR
& Newnam, Inc.	3			DRN:	OL	CITI OI IAMPA	SLUDGE CONTROL
PLANNING ENGINEERING PROGRAM MANAGEMENT 107 Hampton Road, Suite 190, Clearwater, FL 33759	2			CKD:	DH	HOWARD F. CURREN	
Tel 727-726-0005 Fax 727-726-0009 CA Lic. No: 9086	1			DATE:	5/13/14	ADVANCED WASTEWATER TREATMENT PLANT	ELECT



	No.	DATE	REVISIONS	DES:	GG	CITY of TAKE	HOWARD F. CURRE
& Newnam, Inc.	3			DRN:	OL	CITY OI IAMPA	SLUDGE CONTROL BU
PLANNING ENGINEERING PROGRAM MANAGEMENT 107 Hampton Road, Suite 190, Clearwaler, FL 33759	2			CKD:	DH	HOWARD F. CURREN	сь сотр
Tel 727-726-0005 Fax 727-726-0009 CA Lic, No: 9086	T			DATE:	5/13/14	ADVANCED WASTEWATER TREATMENT PLANT	ELECTRI



GENERAL NOTES:

- GENERAL NOTES: 1. EXISTING EQUIPMENT TO REMAIN (SHOWN AS LIGHT SHADED LINES). DEMOLITION WORK IS SHOWN IN BOLD LINES. 2. REFER TO SHEET 17 FOR ELECTRICAL LEGEND AND ABBREWATIONS. 3. EXISTING POWER AND CONTROL CONDUIT HOMERUNS AND EXISTING PULL BOXES AS SHOWN ARE DERIVED FROM RECORD DRAWINGS. VERIFY EXISTING CONDUIT ROUTING AND PULL BOX LOCATIONS PRIOR TO CONSTRUCTION. TAG AND TRACE ALL EXISTING VALVE ACTUATOR POWER AND CONTROL CONDUCTORS PRIOR TO REMOVAL. 4. EXISTING VALVE ACTUATORS AS SHOWN ARE DERIVED FROM RECORD DRAWINGS. FIELD VERIFY EXISTING LOCATIONS PRIOR TO REMOVAL.

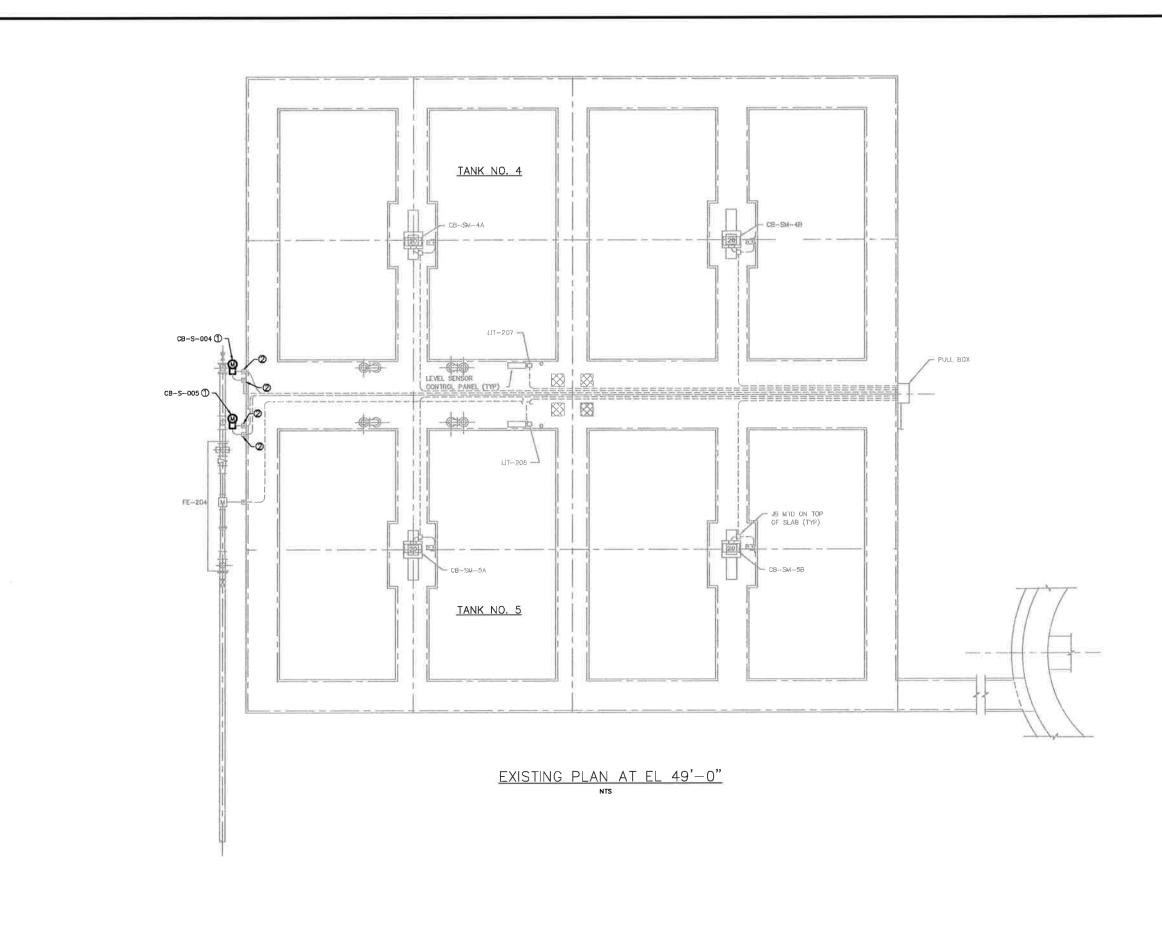
O <u>KEYED NOTES:</u>

- <u>KEYED NOTES:</u>
 COORDINATE REMOVAL OF VALVE ACTUATOR WITH MECHANICAL CONTRACTOR. DISCONNECT AND SALVAGE EXISTING VALVE ACTUATOR POWER/INSTRUMENTATION/CONTROL CONDUIT(S) AND CONDUCTORS TO THE NEAREST PULL BOX AS SHOWN. PROTECT AND NEATLY COIL CONDUCTORS FOR CONNECTION TO PROPOSED VALVE ACTUATOR AS SHOWN ON SHEET 22. COORDINATE DISCONNECTION WITH CITY.
 EXISTING PULL BOX TO REMAIN.
 EXISTING CONDUITS TO "MCC-SO1A", "MCC-SO1B", AND "CBCP" TO REMAIN.

STATE C. OR 1 D STATE C. OR 1 D S-13-2019 TRICAL ENGINEER

SHEET 19

REN ADVANCED WASTEWATER TREATMENT PLANT	
L BUILDING CONTROL VALVES AND PIPING REPLACEMENT	
TRICAL DEMOLITION PLAN AT EL. 21'-0"	



Lockwood, Andrews & Newnam, Inc.	No.	DATE	REVISIONS	DES:	GG	atty of TAL	HOWARD F. CURF
A LEO A DALY COMPANY	3			DRN:	OL	CITY of TAMPA	SLUDGE CONTROL
PLANNING ENGINEERING PROGRAM MANAGEMENT 107 Hampton Road, Suite 190, Clearwater, FL 33759	2			CKD:	DH	HOWARD F. CURREN	EL EOT
Tel 727-726-0005 Fax 727-726-0009 CA Lic, No: 9086	1			DATE:	5/13/14	ADVANCED WASTEWATER TREATMENT PLANT	ELECT



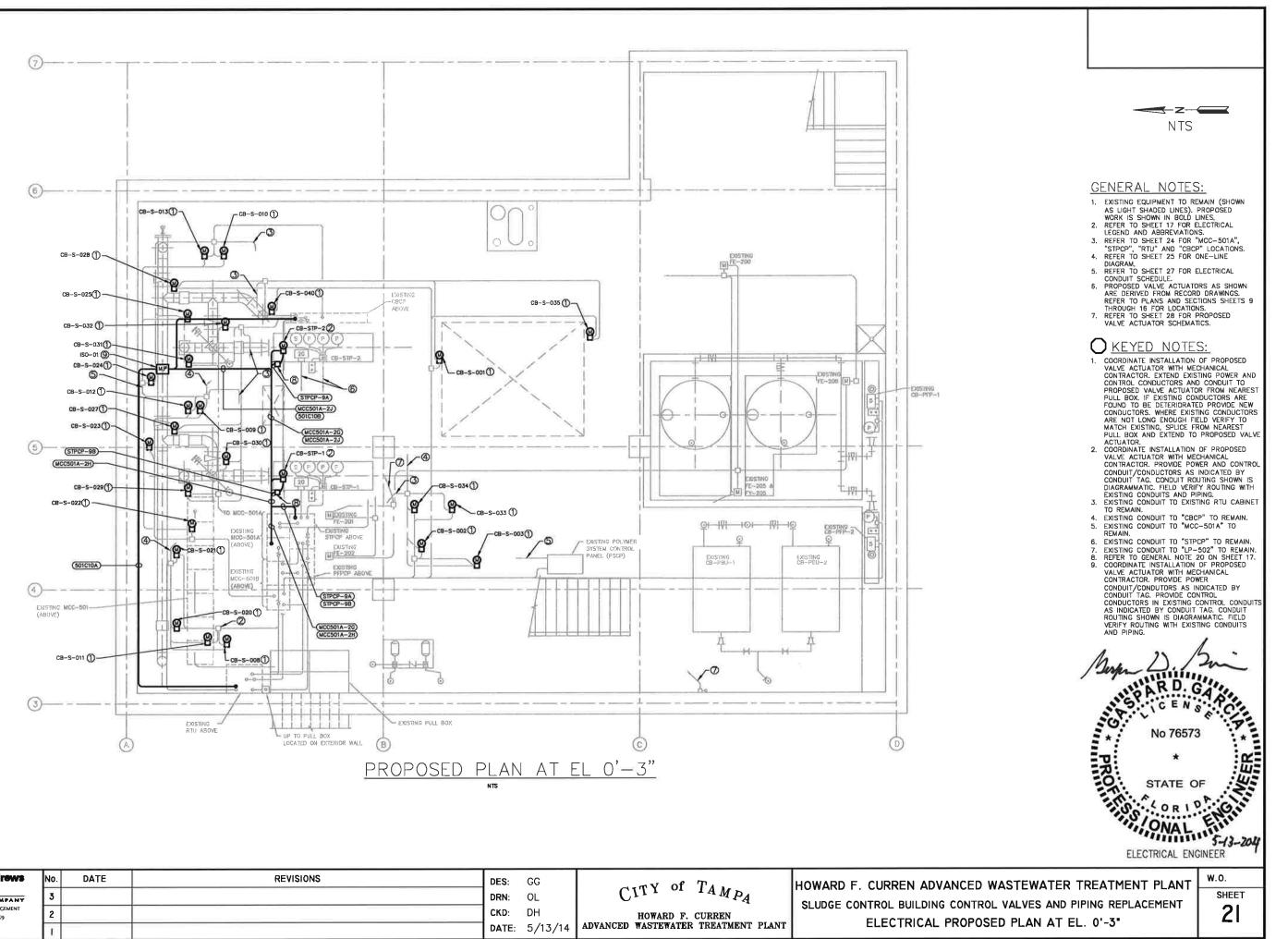
GENERAL NOTES:

- GENERAL NUTES: 1. EXISTING EQUIPMENT TO REMAIN (SHOWN AS LIGHT SHADED LINES). DEMOLITION WORK IS SHOWN IN BOLD LINES. 2. REFER TO SHEET 17 FOR ELECTRICAL LEGEND AND ABBREVIATIONS. 3. EXISTING POWER AND CONTROL CONDUIT HOMERUNS AND EXISTING FULL BOXES AS SHOWN ARE DERIVED FROM RECORD DRAWINGS. VERIFY EXISTING CONDUIT ROUTING AND PULL BOX LOCATIONS PRIOR TO CONSTRUCTION. TAG AND TRACE ALL EXISTING VALVE ACTUATORS POWER AND CONTRUCTION. TAG AND TRACE ALL EXISTING VALVE ACTUATORS POWER AND CONTROL CONDUCTORS PRIOR TO REMOVAL. 4. EXISTING VALVE ACTUATORS AS SHOWN ARE DERIVED FROM RECORD DRAWINGS. FIELD VERIFY EXISTING LOCATIONS PRIOR TO REMOVAL.

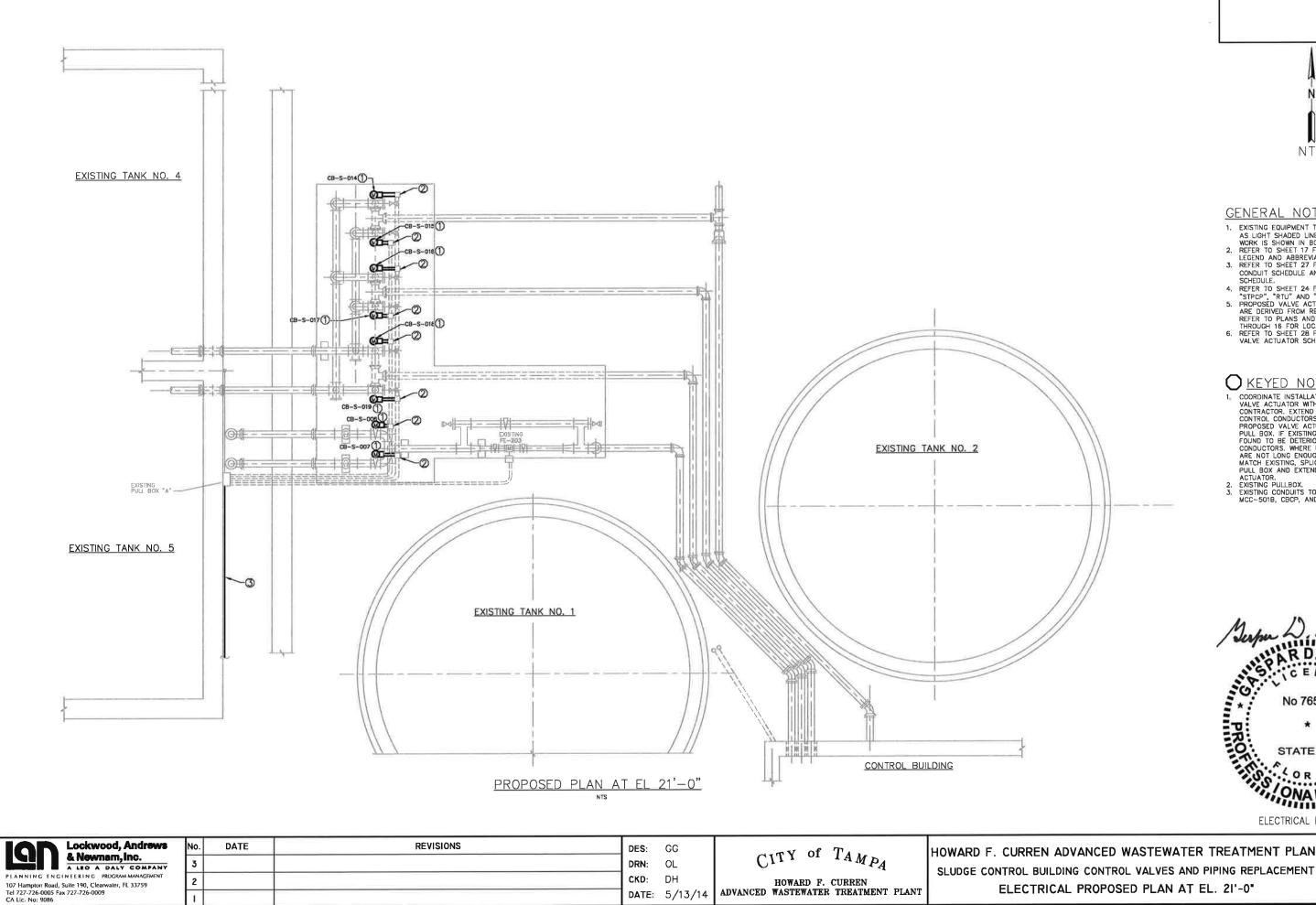
KEYED NOTES:

COORDINATE REMOVAL OF VALVE ACTUATOR WITH MECHANICAL CONTRACTOR. DISCONNECT AND SALVAGE EXISTING VALVE ACTUATOR 1. AND SALVAGE EXISTING VALVE ACTUATOR POWER/INSTRUMENTATION/CONTROL CONDUIT(S) AND CONDUCTORS TO THE NEAREST PULL BOX AS SHOWN. PROTECT AND NEATLY COLL CONDUCTORS FOR CONNECTION TO PROPOSED VALVE ACTUATOR AS SHOWN ON SHEET 23. COORDINATE DISCONNECTION WITH THE CITY. 2. EXISTING PULL BOX TO REMAIN.

D STATE OF ORIDACINE STATE OF SIJ CON SI REN ADVANCED WASTEWATER TREATMENT PLANT SHEET . BUILDING CONTROL VALVES AND PIPING REPLACEMENT 20 RICAL DEMOLITION PLAN AT EL. 49'-0"



Lockwood, Andrews	No.	DATE	REVISIONS	DES:	GG	CITY OF TAR	HOWARD F. CURR
& Newnam, Inc.	3			DRN:	OL	CITY of TAMPA	SLUDGE CONTROL
PLANNING ENGINEERING PROGRAM MANAGEMENT 107 Hampton Road, Suite 190, Clearwater, FL 33759	2			CKD:	DH	HOWARD F. CURREN	ELEC
Tel 727-726-0005 Fax 727-726-0009 CA Lic, No: 9086	1			DATE:	5/13/14	ADVANCED WASTEWATER TREATMENT PLANT	ELEC



DATE: 5/13/14



GENERAL NOTES:

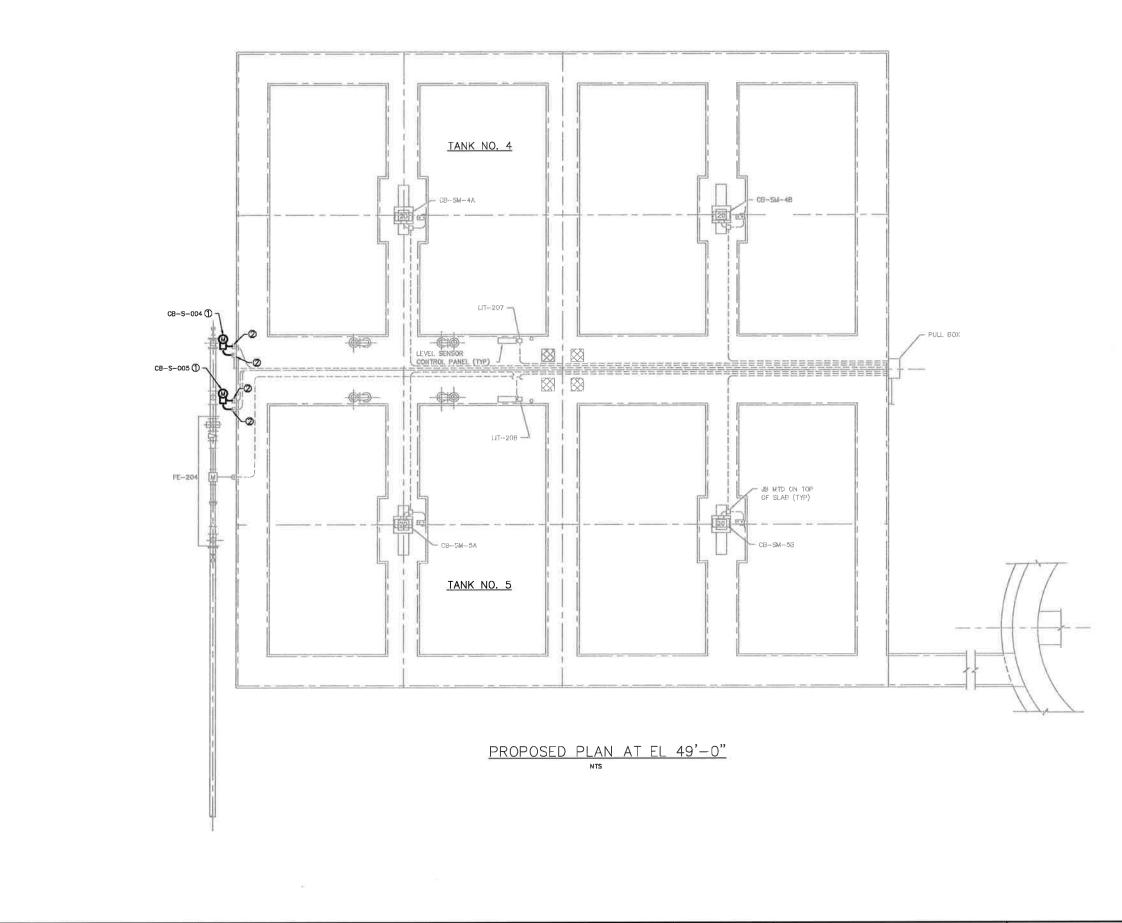
- GENEKAL NUTES:
 EXISTING EQUIPMENT TO REMAIN (SHOWN AS LIGHT SHADED LINES). PROPOSED WORK IS SHOWN IN BOLD LINES.
 REFER TO SHEET 17 FOR ELECTRICAL LEGEND AND ABBREVIATIONS.
 REFER TO SHEET 27 FOR ELECTRICAL CONDUIT SCHEDULE AND FOR PANEL "LP" SCHEDULE.
 REFER TO SHEET 24 FOR "MCC-501A". "STPCP", "RTU" AND "GBCP" LOCATIONS.
 PROPOSED VALVE ACTUATORS AS SHOWN ARE DERIVED FROM RECORD DRAWINGS. REFER TO SHEET 28 FOR PROPOSED THROUGH 16 FOR LOCATIONS.
 REFER TO SHEET 28 FOR PROPOSED VALVE ACTUATOR SCHEMATICS.

KEYED NOTES:

- KETED INDIES: COORDINATE INSTALLATION OF PROPOSED VALVE ACTUATOR WITH MECHANICAL CONTRACTOR. EXTEND EXISTING POWER AND CONTROL CONDUCTORS AND CONDUIT TO PROPOSED VALVE ACTUATOR FROM NEAREST PULL BOX. IF EXISTING CONDUCTORS ARE FOUND TO BE DETERIORATED PROVIDE NEW CONDUCTORS. WHERE EXISTING CONDUCTORS ARE NOT LONG ENQUGH FIELD VENIFY TO MATCH EXISTING, SPLICE FROM NEAREST PULL BOX AND EXTEND TO PROPOSED VALVE ACTUATOR.
 EXISTING CONDUITS TO MCC-501A, MCC-501B, CBCP, AND RTU TO REMAIN.

111111111 No 76573 STATE OF OR 1 D ONAL TRICAL ENGINEER W.O. HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT SHEET

22



	No.	DATE	REVISIONS	DES:	GG	CITY of TAKE	HOWARD F. CURRE
& Newnam, Inc.	3			DRN:	OL	CITY OF TAMPA	SLUDGE CONTROL BU
PLANNING ENGINEERING PROGRAM MANAGEMINT 107 Hampton Road, Suite 190, Clearwaler, FL 33759	2			CKD:	DH	HOWARD F. CURREN	
Tel 727-726-0005 Fax 727-726-0009 CA Lic. No: 9086	E			DATE:	5/13/14	ADVANCED WASTEWATER TREATMENT PLANT	

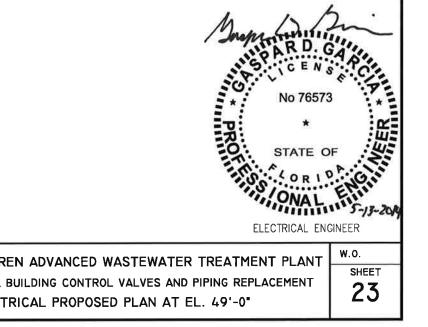


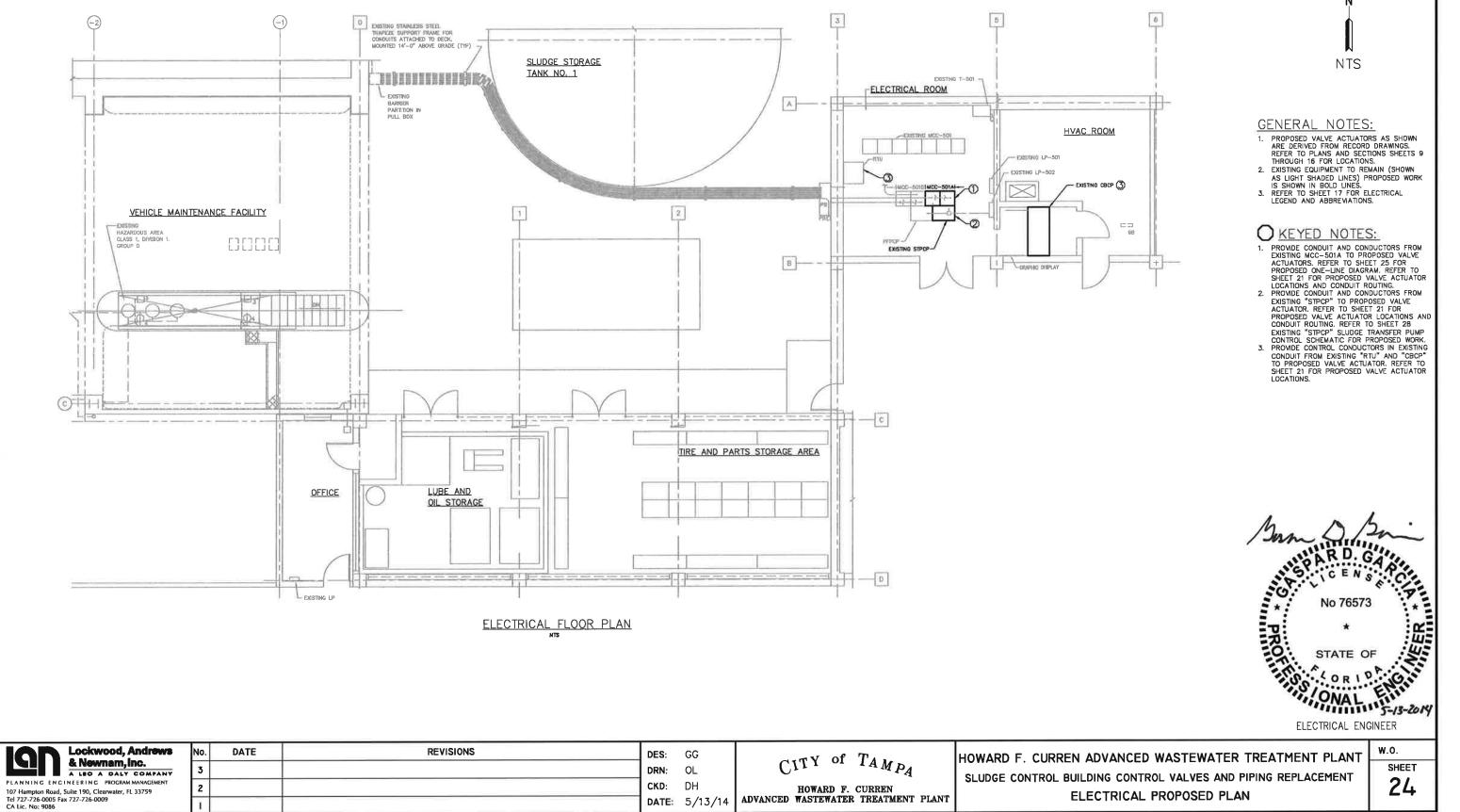
GENERAL NOTES:

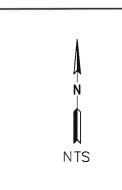
- EXISTING EQUIPMENT TO REMAIN (SHOWN AS LIGHT SHADED LINES). PROPOSED WORK IS SHOWN IN BOLD LINES.
 REFER TO SHEET 17 FOR ELECTRICAL LEGEND AND ABBREVIATIONS.
 REFER TO SHEET 27 FOR ELECTRICAL CONDUIT SCHEDULE AND FOR PANEL "LP" SCHEDULE.
 DEFET 24 EOB "NCC. EDIA"
- SCHEDULE. 4. REFER TO SHEET 24 FOR "MCC-501A", "STPCP", "RTU" AND "CBCP" LOCATIONS. 5. PROPOSED VALVE ACTUATORS AS SHOWN ARE DERIVED FROM RECORD DRAWINGS. REFER TO PLANS AND SECTIONS SHEETS 9 THROUGH 16 FOR LOCATIONS. 6. REFER TO SHEET 28 FOR PROPOSED VALVE ACTUATOR SCHEMATICS.

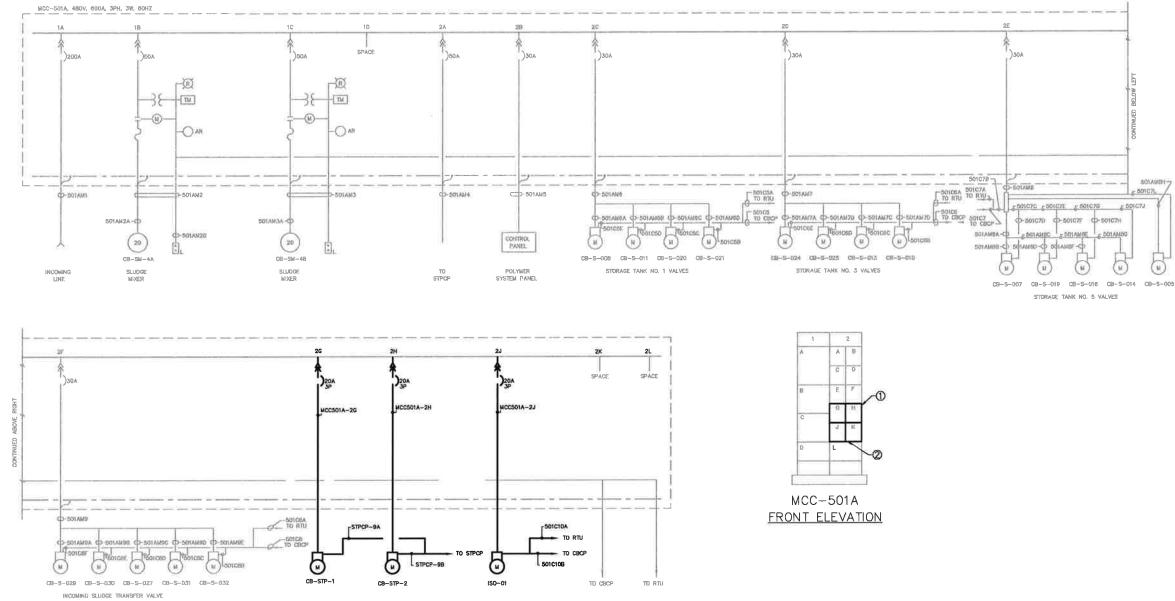
O<u>KEYED NOTES:</u>

- <u>NETED NUTES:</u> 1. COORDINATE INSTALLATION OF PROPOSED VALVE ACTUATOR WITH MECHANICAL CONTRACTOR. EXTEND EXISTING POWER AND CONTROL CONDUCTORS AND CONDUIT TO PROPOSED VALVE ACTUATOR FROM NEAREST PULL BOX. IF EXISTING CONDUCTORS ARE FOUND TO BE DETERIORATED PROVIDE NEW CONDUCTORS. WHERE EXISTING CONDUCTORS ARE NOT LONG ENOUGH FIELD VERIFY TO MATCH EXISTING, SPLICE FROM NEAREST PULL BOX AND EXTEND TO PROPOSED VALVE ACTUATOR. 2. EXISTING PULLBOX.
- 2. EXISTING PULLBOX.









Lockwood, Andrews REVISIONS DATE No. DES: GG CITY of TAMPA & Newnam, Inc. DRN: OL A LEO A DALY COMPANY PLANNING ENGINEERING PROGRAM MANAGEMEN CKD: DH 2 HOWARD F. CURREN 107 Hampton Road, Suite 190, Clearwater, FL 33759 Tel 727-726-0005 Fax 727-726-0009 CA Lic. No: 9086 ADVANCED WASTEWATER TREATMENT PLANT DATE: 5/13/14

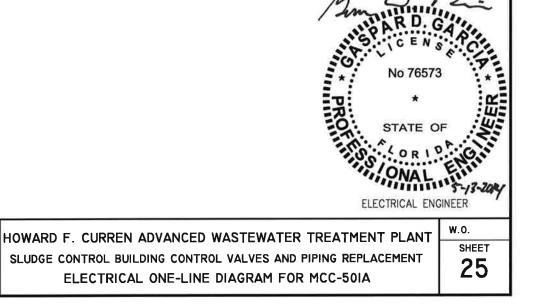
GENERAL NOTES:

- GENERAL INVIES.
 EXISTING EQUIPMENT TO REMAIN (SHOWN AS LIGHT SHADED LINES), PROPOSED WORK IS SHOWN IN BOLD LINES.
 REFER TO SHEET 17 FOR ELECTRICAL LEGEND AND ABBREVIATIONS.
 THE EXISTING MCC ONE-LINE DIAGRAM AND MCC ELEVATION ARE DERIVED FROM RECORD DRAWINGS AND FROM VISUAL OBSERVATION. VERIFY THE EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND NOTFY ENGINEER AND OWNER OF ANY DISCREPANCIES FOUND.
 EXISTING CONDUIT TAGS DERIVED FROM RECORD DRAWINGS SHOWN FOR INFORMATION PURPOSES ONLY
 REFER TO SHEET 27 FOR ELECTRICAL CONDUIT SCHEDULE.
 REFER TO SHEET 24 FOR "MCC-501A",

- B. REFER TO SHEET 24 FOR "MCC-501A", "STPCP", "RTU", AND "CBCP" LOCATIONS.

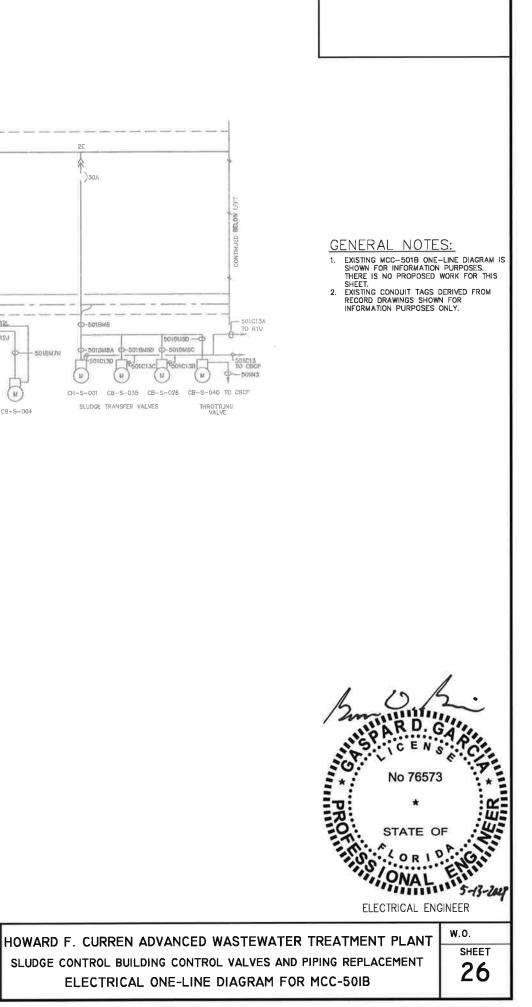
O KEYED NOTES:

- ALLIED THOTLES.
 PROVIDE DUAL MOUNTED CIRCUIT BREAKERS IN EXISTING MCC CUBICLE. FIELD VERIFY TO MATCH AIC RATING OF EXISTING CIRCUIT BREAKER. PROVIDE NAMEPLATES FOR THE PROPOSED VALVES ON MCC CUBICLE.
 PROVIDE CIRCUIT BREAKER IN EXISTING MCC CUBICLE. FIELD VERIFY TO MATCH AIC RATING OF EXISTING CIRCUIT BREAKER. PROVIDE NAMEPLATES FOR THE PROPOSED VALVES ON MCC CUBICLE.



SPACE. E -Ò TM TH 38-(H)-(1) OAR -O AF 501C125 5 501012 501BMB -SOIBM1 -501BH2 301E5/4 501BM5 1860 SURA OT ie Rav 10.000 501BW2/ 501BM3/ 5 501Bhr7C 5 SOITHITE 5018476 50191/77 BATD-C (20) 20 (₩) (M) (и M (H)CB-S-022 CB-S-023 CB-S-012 CB-S-008 (11) (11 (H) (14) CB~-5M--5A CB-SM-50 INCOMING LINE FROM MCC-501 SLUDGE MIXER SLUDGE Mixer TO STPCP (CB-STP-2) STORAGE TANK NO. 2 VALVES TO PFPCP CB-5-006 CB--S--018 C8-S-017 C8-S-015 C8-S-004 STORAGE TANK NO. 4 VALVES SPACE SPACE MCC-501B FRONT ELEVATION TO RTU -501015 501010 (11) () (11) (11 CB-S-002 CB-S-003 CB-S-033 CB~S~034 TO CECP TO RTU SUJDGE TRANSFER VALVES

Lockwood, Andrews DATE REVISIONS No. DES: GG CITY of TAMPA 9 & Newnam, Inc. DRN: OL PLANNING ENGINEERING PROGRAM MANAGEMENT CKD: DH HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT 2 107 Hampton Road, Suite 190, Clearwater, FL 33759 Tel 727-726-0005 Fax 727-726-0009 CA Lic. No: 9086 DATE: 5/13/14 1



		CONDU	TSCHEDULE		
CONDUIT TAG	TO	FROM	NOTES	CONDUCTORS	CONDUIT
MCC501A-2G	CB-STP-1 MOV	MCC-501A	PROPOSED	3#10 AWG, 1#10AWG GND	3/41
STPCP-9A	CB-STP-1 MOV	STPCP	11	1-8PR#16 TP, 1-4'PR#16 STP	1-1/2"
MCC 501A-2H	CB-STP-2 MOV	MCC-501A	PROPOSED	3#10 AWG, 1#10AWG GND	3/4"
STPCP-9B	CB-STP-2 MOV	STPCP	1	1-8PR#16 TP, 1-4"PR#16 STP	1-1/2"
MCC501A-2J	ISO-01 MOV	MCC-501A	1	3#10 AWG, 1#10AWG GND.	3/4"
501C10A	ISO-01 MOV	CBCP	2	1-8PR#16 TP, 1-4"PR#16 STP	1-1/2"
501C10B	ISO-01 MOV	RTU	2	1-8PR#16 TP, 1-4 PR#16 STP	1-1/2"

NOTE 1: PROVIDE CONTROL CONDUCTORS AS INDICATED TO "STPCP" AS FOLLOWS:
• LIMIT SWITCH STATUS

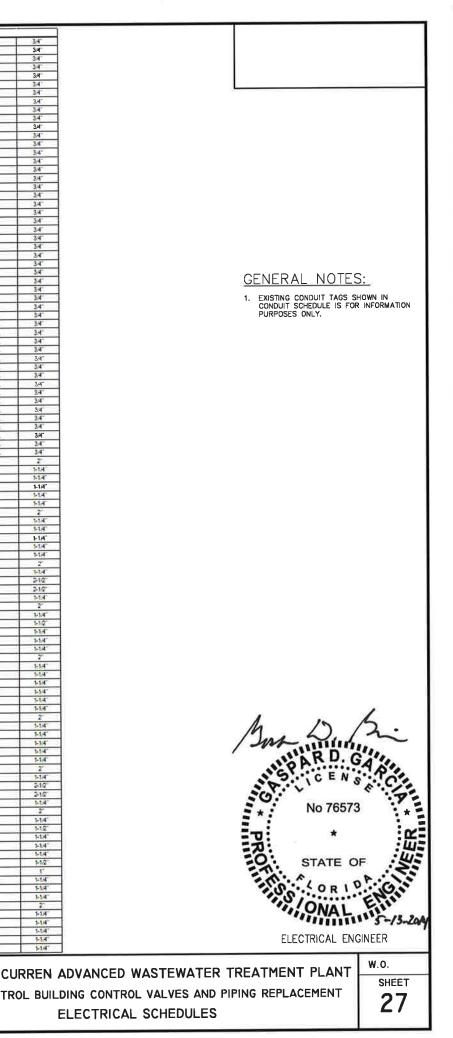
VALVE OPEN
 VALVE CLOSE
 REFER TO STPCP CONTROL SCHEMATIC SHEET 28 FOR MORE DETAIL
NOTE 2: UTILIZE EXISTING CONDUIT WHERE POSSIBLE AND PROVIDE CONTROL CONDUCTORS AS INDICATED.

Lockwood, Andrews	No.	DATE	REVISIONS	DES:	GG	OTTY OF TAKE	HOWARD F. CL
A LEO A DALY COMPANY	3			DRN:	OL	CITI OF TAMPA	SLUDGE CONTR
NNING ENGINEERING PROGRAM MANAGEMENT lampton Road, Suite 190, Clearwater, FL 33759	2			CKD:	DH	HOWARD F. CURREN	
27-726-0005 Fax 727-726-0009 c. No: 9086	1			DATE	5/13/14	ADVANCED WASTEWATER TREATMENT PLANT	

G

PLANN

107 Ham Tel 727-7 CA Lic-N



EXISTING CONDUIT TAGS SHOWN FOR INFORMATION CIRLY

EXISTING

XISTING

EXISTING XISTING

XISTING

ENTRY:

DUSTING

VISTING

XISTING

EXISTING EXISTING

EXISTING

KISTING

CISTING.

KISTING

USTING

EXISTING.

EXISTING

VISTING

EXISTING

EVISTING

EXISTING

EXISTING

EVISTING

VISTING

NICTING

STING

EXISTING

STINKS

RISTING ISTING

OSTING

STING

DC TA/

DISTING

EXISTING

FYISTING

XISTING

EXISTING

EXISTING

XISTING

ISTIN

ISTING

VICTING

XISTING

EXISTING

EXISTING

DISDUCTOR CONT. THRU D-DISDUCTOR CONT. THRU D-

STING

STING

EXISTING

LE LEOY NEAR CE.S.OOS

PULLBOX NEAR CB-S-009

PULLEOX NEAR CE-S-011 PULLEOX NEAR CE-S-024

PULIBOX NEAR C8-S-024 PULIBOX NEAR C8-S-024

PULLEOX NEAR CE-S-024

PULLEOX A

PULLEOX NEAR C8-5-029

PULLBOX NEAR CB-S-022 PULLBOX NEAR CB-S-022 MCC-501B

PULLBOX NEAR CB-S-017

PULIBOX NEAR CB-S-001 PULIBOX NEAR CB-S-001 PULIBOX NEAR CB-S-001

PULIBOX NEAR CB-S-001 VCC-501B

FULLBOX NEAR CE-S-002

FULLEOX NEAR CB-S-021

PULLEOX NEAR CB-S-021 PULLEOX NEAR CB-S-021

PULIBOX NEAR C8-S-010 PLAIBOX NEAR C8-S-010

FULLEOX NEAR C8-S-010

LEOX NEAR CE-S-32

FULLEOX NEAR CE-S-32 PULIBOX NEAR CB-5-32 PULIBOX NEAR CB-5-32 FULIBOX NEAR CB-5-32

ULLEOX NEAR CB-S-009

PULIBOX NEAR CB-S-017 PULIBOX "A"

PULLEOX NEAR CE-S-028

PULLBOX NEAR C8-S-028 EXISTING

PULLBOX NEAR CB-S-034 EXISTING PULLBOX NEAR CB-S-034 EXISTING PULLBOX NEAR CB-S-034 EXISTING

PULLEOX NEAR CB-S-034 EXISTING

PLALEOX

PULLEOX NEAR CE-S-009 EXISTING PULLEOX NEAR CE-S-009 EXISTING

PULLEOX NEAR CE-S-009 EXISTING

CSCP

FULLED

FULLBOX NEAR CB-S-002 EXISTING

PULLBOX NEAR CB-S-002 EXISTING PULLBOX NEAR CB-S-002 EXISTING

ULIBOX"A"

PLALEOX NEAR CE-SO10 EXISTING

PULISOX NEAR CB-S-016 EXISTING PULISOX NEAR CB-S-016 EXISTING PULISOX NEAR CB-S-016 EXISTING

PULLEOX NEAR C8-S-029 EXISTING

PULLEOX NEAR C8-S-029 EXISTING PULLEOX NEAR C8-S-029 EXISTING

PULLEOX NEAR CB-S-029 EXISTING

501AM6 PULLBOK NEAR CE-S-008 501AM6A C8-S-008 501AM68 C8-S-011 501AM68 C8-S-011 501AM6C C8-S-020

501AM78 CB-S-025 501AM7C CB-S-013 501AM7D CB-S-010

501AM6F CBS-016 501AM8G CB-5-014 501AM6H CB-5-005

501AM9C CB-S-02 501AM9D CB-S-03

CE-S-08

SOTBMOC CB-S-OT

501BM0D CB-S-009 501BM7 PULLBCK 'A

5018M7F C8-S-017

5018M7G CB-S-015 5018M7H CB-S-004

501BM8A CB-S-001 501BM8B CB-S-035

SOIBMEC CE-S-TEE

5018M98 C8-S-003 5018M9C C8-S-033 5018M9D C8-S-034

501060 08-S-013 501060 08-S-025

50106E CE-S-024 50107 PULLBOX 50107A PULLBOX 50107B PULLBOX A

501CSC C8-S-031 501CSD C8-S-027

501C8E C8-5-030 501C8F C8-5-029

501C11C CB-S-012 501C11D CB-S-021

501011E CB-5402 501012 PULLBOK 501012A PULLBOK 501012B PULLBOK A

501C14B C8-5-034 501C14C C8-5-033 501C14D C8-5-003

501C14E C8-S-002

501AMRD CB-S-021 PULLBOX NE 501AM7 PULLBOX NEAR CB-S-0224 MCC-501A 501AM7A CB-S-024 PULLBOX NE

501AM9 PULLECK NEAR CE-5-029 MCC-501A 501AM9A CE-5-029 PULLECK NE 501AM9B CE-5-030 PULLECK NE

 501AW2D
 Cerestor

 501AW3E
 PULLBOX 'A'

 901AW3E
 PULLBOX NEAR CB-5-007

 PULLBOX NEAR CB-5-007
 PULLBOX NEAR CB-5007

 PULLBOX NEAR CB-5007
 PULLBOX NEAR CB-5007

501A35C PULLEOX NEAR CB-5-019 PULLEOX NEAR CB-5-007 501A35C CE-5-019 PULLEOX NEAR CB-5-019 PULLEOX NEAR CB-5-019

501AMSE FULLBOX NEAR CB-S-016 FULLBOX NEAR CB-S-019

 Korbins
 Cel-Solar

 50/BMS
 PULLBOX NEAR CB-S-022
 MCC-40/95

 50/BMS
 CB-S-022
 PULLBOX NEAR CB-S-022

 50/BMSE
 CB-S-023
 PULLBOX NEAR CB-S-022

0151/7A PULLECK NEAR CB-S-006 PULLEOX A" 20151/7B CB-S-005 PULLEOX NEAR CB-S-005

SOIBMTC FULLBOK NEAR CB-S-018 FULLBOX NEAR CB-S-000

 CONSINC
 FOLLBOX NEAR CB-S019
 FULLBOX NEAR CB-S019

 S018M7D
 CB-S-018
 FULLBOX NEAR CB-S019

 S018M7F
 FULLBOX NEAR CB-S017
 FULLBOX NEAR CB-S018

 S018M7F
 CB-S-017
 FULLBOX NEAR CB-S017

 OULDE
 CE-5/08
 FULEOX NEAR CE-8/00

 50106
 FULEOX NEAR CE-8/00
 CE/200

 50106
 FULEOX NEAR CE-8/00
 CE/200

 50106
 FULEOX NEAR CE-8/00
 CE/200

 50106
 FULEOX NEAR CE-8/00
 FULEOX NEAR CE-8/00

 50106
 FULEOX NEAR CE-8/00
 FULEOX NEAR CE-8/00

 50106
 FULEOX NEAR CE-8/00
 FULEOX NEAR CE-8/00

 S01C7D
 PLLIBOX FAR CB-5-007
 PLLIBOX FAR

 501C7D
 CLLIBOX FAR CB-5-007
 PLLIBOX NEAR CB-5-007

 501C7D
 CLLIBOX MEAR CB-5-019
 PLLIBOX NEAR CB-5-019

 501C7E
 FULIBOX MEAR CB-5-019
 FULIBOX NEAR CB-5-019

 501C7F
 CLB-5-019
 FULIBOX NEAR CB-5-019

 501C7F
 CB-5-019
 FULIBOX NEAR CB-5-019

 501C7F
 CLB-5-019
 FULIBOX NEAR CB-5-019

 501C7F
 CB-5-019
 FULIBOX NEAR CB-5-019

 50107J
 CB-S-014
 PULBOX NEAR CB-S-016

 50107L
 CB-S-005
 PULBOX "A"

 50108
 PULBOX NEAR CB-S-032
 CBCP

501CEA FULLBOK NEAR CB-5-032 RTU 501CEB CB-5-032 PUL

 501C11
 PULLBOK NEAR CB-S-009

 501C11A
 PULLBOK NEAR CB-S-009

 501C11B
 CB-S-009

5010120 PULLBOX NEAR CB-S-006 PULLBOX "A

 S01C12H
 CER-S017
 FOLLBOI

 501C12L
 CER-S015
 FULLBOI

 501C12L
 CER-S016
 FULLBOI

 501C13L
 FULLBOI NEAR CER-S-028
 RTU

 501C13L
 FULLBOI NEAR CER-S-028
 RTU

 501C13L
 FULLBOI NEAR CER-S-028
 RTU

 501C13L
 CER-S-028
 FULLBOI NEAR CER-S-028
 RTU

 501C13E
 CER-S-028
 FULLBOI NEAR CER-S-028
 FULLBOI NEAR CER-S-028

12D C8-S-005 PULLBOX NEAR C8-S-005 12E PULLBOX NEAR C8-S-016 PULLBOX NEAR C8-S-005

 50:012F
 CB-S-018
 FULLBOX NEAR CB-S018

 50:0120
 FULLBOX NEAR CB-S-017
 FULLBOX NEAR CB-S018

 50:012H
 CB-S-017
 FULLBOX NEAR CB-S017

 Strict
 PULBOX NEAR CB-S-034
 CBOP

 501C14
 PULBOX NEAR CB-S-034
 CBOP

 501C144
 PULBOX NEAR CB-S-034
 RTU

 501C144
 PULBOX NEAR CB-S-034
 RTU

501BUS FULLBOX NEAR CS-S-001 MCC-501B

 COTEMAD
 CB-S-040
 F

 501BM8D
 CB-S-040
 F

 501BM9
 FULLEOK NEAR CB-B-002
 F

 501BM5A
 CB-S-002
 F

 00183D
 CLBS004
 F002

 00103
 PULLBOX NEAR 08-5/21
 CBC

 501024
 PULLBOX NEAR 08-5/21
 CBC

 5010264
 CB-5/20
 PULL

 501026
 CB-5/20
 PULL

 501026
 CB-5/20
 PULL

 501026
 CB-5/20
 PULL

 501020
 CB-5/30
 PULL

 501026
 CB-5/30
 PULL

 501026
 CB-5/30
 PULL

 501026
 CB-5/30
 PULL

#10 AWG. 1#10AWG GNE

3#10 AWG, 1#10AWG GND 3#10 AWG, 1#10AWG GND,

SHID AWG, 1HIDAWG GND

5#10 AWG, 1#10AWG GND, 3#10 AWG, 1#10AWG GND,

1#10 AWG, 1#10AWG GRD

3#10 AWG, 1#10AWG GRD, 3#10 AWG, 1#10AWG GRD,

3#10 AWG, 1#10AWG GND,

3#10 AWG, 1#10AWG GND. 3#10 AWG, 1#10AWG GND. 3#10 AWG, 1#10AWG GND.

2#10 AWG. 1#10AWG GND. 3#10 AWG. 1#10AWG GND.

3#10 AWG. 1#10AWG GND.

3#10 AWS. 1#10AWS GND.

3#10 AWG 1#10AWG GND 3#10 AWG. 1#10AWG GND.

3#10 AWG, 1#10AWG GND, 3#10 AWG, 1#10AWG GND,

3#10 AWG, 1#10AWG GND

3#10 AWG, 1#10AWG GND 3#10 AWG, 1#10AWG GND

3#10 AWG, 1#10AWG GND

3=10 AWG, 1#10AWG GND. 3=10 AWG, 1#10AWG GND.

3410 AWG. 1MOAWG GND.

3#10 AWG, 1#10AWG GND. 3#10 AWG, 1#10AWG GND.

3=10 AWS, 1#10AWG GND

3#10 AWG, 1#10AWG GND, 3#10 AWG, 1#10AWG GND,

3#10 AWG, 1#10AWG GND, 3#10 AWG, 1#10AWG GND, 3#10 AWG, 1#10AWG GND, 3#10 AWG, 1#10AWG GND,

S#10 AWG; 1#10AWG GND

3#10 AWG, 1#10AWG GND 3#10 AWG, 1#10AWG GND

3#10 AWG, 1#10AWG GND

SETO AWG. 18TOAWG GND

3#10 AWG, 1#10AWG GND 3#10 AWG, 1#10AWG GND

3#10 AWG, 1#10AWG GND 3#10 AWG, 1#10AWG GND

32#14, 1#14 GND 12#14, 1#14 GND

11#14 1#14 GN

11#14, 1#14 GN

10 11#14, 1#14 GM

10 11#14, 1#14 GND

32#14, 1#14 GN 12#14, 1#14 GN

11#14, 1#14 GN

11#14, 1#14 GN

11#14, 1#14 G

11#14 1#14 GN

40#14, 1#14 GND 15#14, 1#14 GND

55#14, 1#14 GN

44#14, 1#14 GND 33#14, 1#14 GN

11#14, 1#14 GND 22#14, 1#14 GND 11#14, 1#14 GND

11#14, 1#14 GNE

11#14, 1#14 GN

40#14, 1#14 GN

15#14, 1#14 GNE

11#14, 1#14 GNE

11#14, 1#14 GND

11#14, 1#14 GN

32#14, 1#14 GND

11#14, 1#14 GND

11#14, 1#14 GNE

11#14, 1#14 GND 40#14, 1#14 GND. 15#14, 1#14 GND. 55#14, 1#14 GND.

44#14, 1#14 GN 11#14, 1#14 GN

33#14, 1#14 GND

11#14, 1#14 GND. 22#14, 1#14 GND. 11#14, 1#14 GND.

11#14, 1#14 GND.

24#14, 1#14 GND

11#14, 1#14 GND.

11#14, 1#14 GND. 32#14, 1#14 GND. 12#14, 1#14 GND.

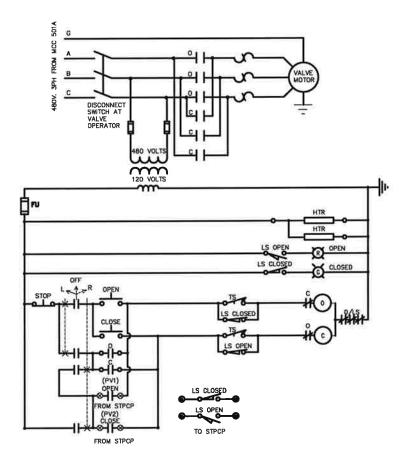
11#14, 1#14 GND.

11#14, 1#14 GND.

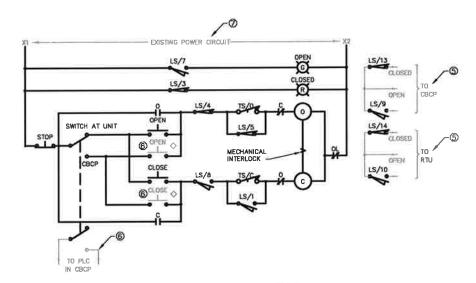
11#14, 1#14 GNE

9#14, 1#14 GND. 11#14, 1#14 GNC

3#10 AWG 1#10AWG GND

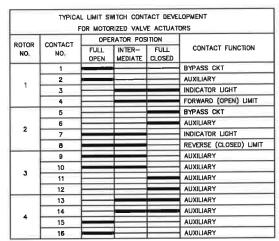


PROPOSED 480 VOLTS, 30, VALVE ACTUATOR TYPICAL FOR CB-STP-1, CB-STP-2, ISO-01



PROPOSED SLUDGE VALVE ACTUATOR

④ INCOMING SLUDCE VALVES CB-S-001 TO CB-S-003 SLUDGE STORAGE TANK INLET VALVES CB-S-004 TO CB-S-013 SLUDGE STORAGE TANK OUTLET VALVES CB-S-014 TO CB-S-013 SLUDGE TRANSFER VALVES CB-S-027 TD CB-S-035

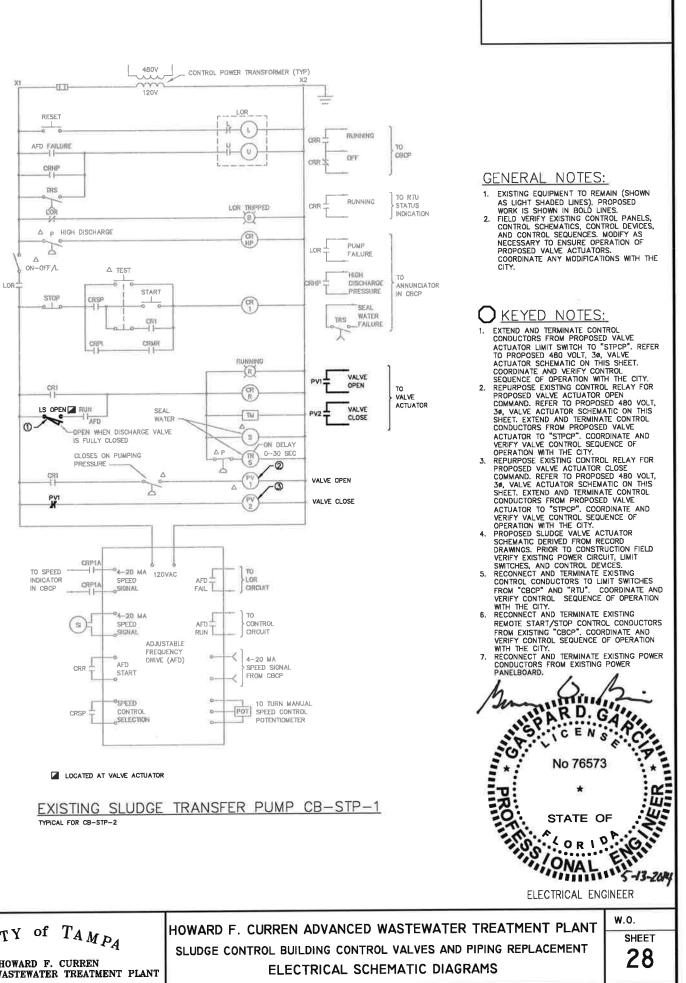


TS/C - CLOSING TORQUE SWITCH TS/O - OPENING TORQUE SWITCH INDICATES CONTACT CLOSED - INDICATES CONTACT OPEN

SEE PROPOSED SLUDGE VALVE ACTUATOR SCHEMATIC DIAGRAMS FOR FUNCTION OF THE "AUXILIARY" LIMIT SWITCH CONTACTS

NOTE

OENDTES DEVICE LOCATED IN CBCP



Lockwood, Andrews DATE REVISIONS CITY of TAMPA DES: GG & Newnam, Inc. OL DRN: A LEO A DALY COMPANY PLANNING ENGINEERING PROGRAM CKD: DH HOWARD F. CURREN 2 107 Hampton Road, Suite 190, Clearwater, FL 33759 Tel 727-726-0005 Fax 727-726-0009 CA Lic. No: 9086 ADVANCED WASTEWATER TREATMENT PLANT DATE: 5/13/14