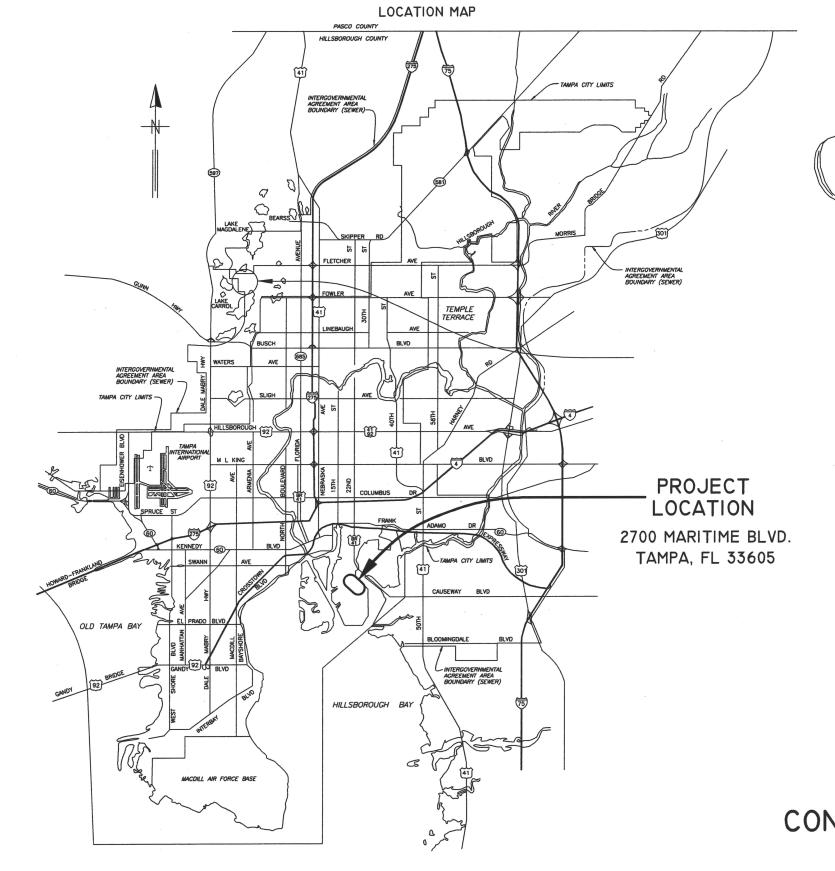
The Enclosed Document Is Provided For Your Convenience.

Please Email ALL Questions:

MailTo:ContractAdministration@TampaGov.net

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





WASTEWATER DEPARTMENT

PLANS FOR

HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT

SLUDGE CONTROL BUILDING CONTROL VALVES AND PIPING REPLACEMENT

CONTRACT NO. 14-C-00029

Lockwood, Andrews

& Newnam, Inc.

107 Hampton Road, Suite 190, Clearwater, FL 33759
Clearwater, FL 33759
C1 272-726-0005 Fax 727-726-0009
CA Lic. No: 9086 & Newnam, Inc.

PAUL WOOD, P.E. #74193 LOCKWOOD ANDREWS & NEWNAM, INC.

Jarosa 5/13/2014 GASPAR D. GARCIA, P.E. #76573 ELECTRICAL AND CONTROLS

LOCKWOOD ANDREWS & NEWNAM, INC.

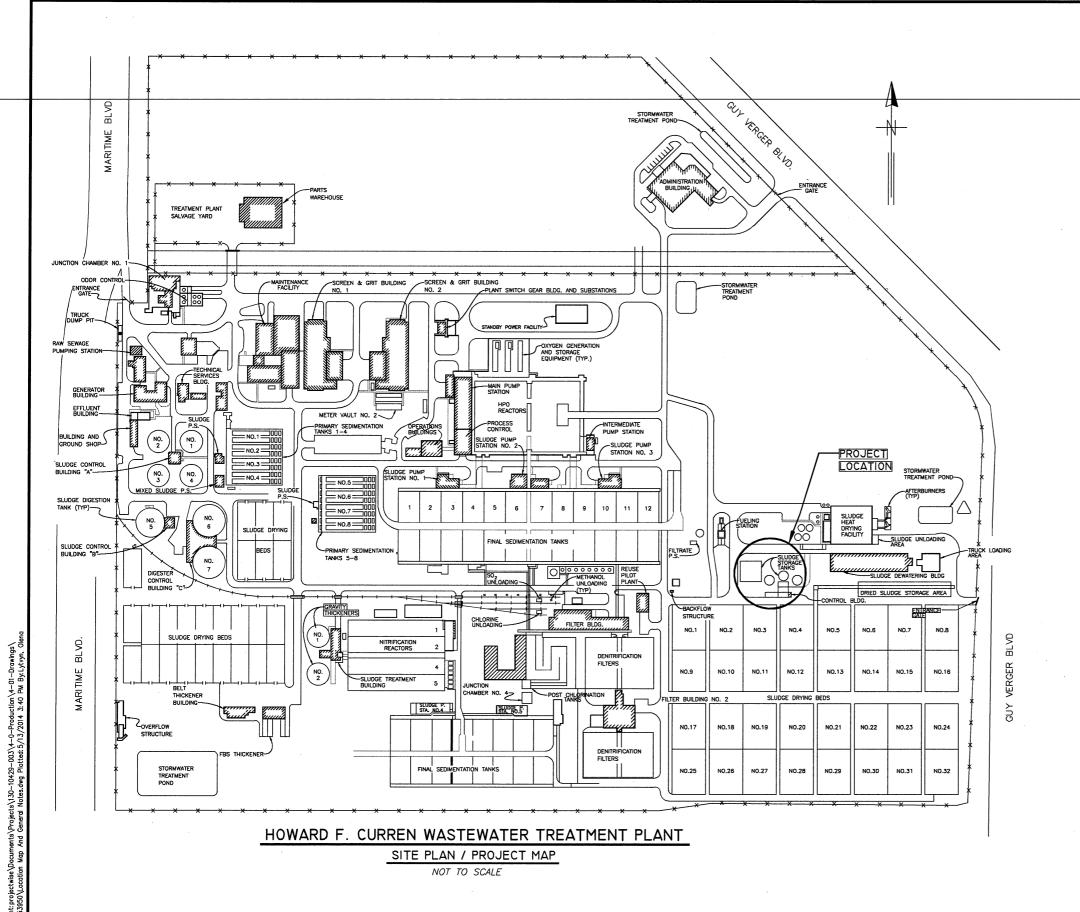
DATE **REVISIONS**

DES: PW DRN: OL CKD: PW DATE: 5/13/14

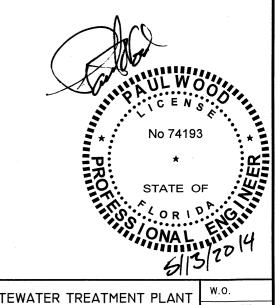
CITY of TAMPA HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT

COVER SHEET

W.O. 4506 SHEET



INDEX DESCRIPTION SH. No. COVER SHEET PROJECT LOCATION AND INDEX GENERAL NOTES VALVE SCHEDULE DEMOLITION PLAN VIEW SCHEMATIC PROPOSED PLAN VIEW SCHEMATIC PROPOSED SITE PLAN AT EL. 49'-0" 8 PROPOSED SITE PLAN AT EL. 21'-0" PROPOSED SITE PLAN AT EL. 11'-8" PROPOSED SITE PLAN AT EL. 10'-0" PROPOSED SITE PLAN AT EL. 8'-5" PROPOSED SITE PLAN AT EL. 0'-3" 12 PROPOSED SECTION VIEWS A-D PROPOSED SECTION VIEWS E-I PROPOSED SECTION VIEWS J-K PROPOSED POLYMER TANK PIPING 16 ELECTRICAL GENERAL NOTES ELECTRICAL DEMO PLAN AT EL. 0'-3 ELECTRICAL DEMO PLAN AT EL. 21'-C 19 ELECTRICAL DEMO PLAN AT EL. 49'-0 ELECTRICAL PROP PLAN AT EL. 0'-3' ELECTRICAL PROP PLAN AT EL. 21'-0 ELECTRICAL PROP PLAN AT EL. 49'-0 23 ELECTRICAL PROP PLAN ONE-LINE DIAGRAM FOR MCC-501A ONE-LINE DIAGRAM FOR MCC-501B 27 ELECTRICAL SCHEDULES 28 ELECTRICAL SCHEMATIC DIAGRAMS





Tel 727-726-0005 Fax 727-726-0009

VS	No.	DATE	REVISIONS	DES:
NY	3			DRN:
NT	2		-	CKD:
				DATE:

OL

CITY of TAMPA HOWARD F. CURREN
5/13/14 ADVANCED WASTEWATER TREATMENT PLANT

HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT SLUDGE CONTROL BUILDING CONTROL VALVES AND PIPING REPLACEMENT PROJECT LOCATION AND INDEX

- CONTRACTOR SHALL VERIFY QUANTITIES OF ALL NECESSARY PIPES, VALVES, REDUCERS, FITTING, 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 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

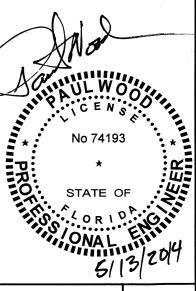
SEQUENCE OF CONSTRUCTION

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. A LEO A DALY COMPANY PLANNING ENGINEERING PROGRAM MANAGEMENT 107 Hampton Road, Suite 190, Clearwater, FL 33759 Tel 727-726-0005 Fax 727-726-0009

3	No.	DATE	REVISIONS	DES:	PW
7	3		·	DRN:	OL
	2			CKD:	PW
	_			DATE:	5/13

CITY of TAMPA

HOWARD F. CURREN TE: 5/13/14 ADVANCED WASTEWATER TREATMENT PLANT

HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT SLUDGE CONTROL BUILDING CONTROL VALVES AND PIPING REPLACEMENT GENERAL NOTES

W.O

	ITEM DECODINE		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
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 AND ASSOCIATED ACTUATOR
2	CB-S-002	6"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-002 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-002 AND ASSOCIATED ACTUATOR
3	CB-S-003	8"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-003 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-003 AND ASSOCIATED ACTUATOR
4	CB-S-004	8"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-004 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-004 AND ASSOCIATED ACTUATOR
5	CB-S-005	8"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-005 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-005 AND ASSOCIATED ACTUATOR
6	CB-S-006	8"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-006 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-006 AND ASSOCIATED ACTUATOR
7	CB-S-007	8"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-007 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-007 AND ASSOCIATED ACTUATOR
8	CB-S-008	8"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-008 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-008 AND ASSOCIATED ACTUATOR
9	CB-S-009	8"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-009 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-009 AND ASSOCIATED ACTUATOR
10	CB-S-010	8"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-010 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-010 AND ASSOCIATED ACTUATOR
11	CB-S-011	6"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-011 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-011 AND ASSOCIATED ACTUATOR
12	CB-S-012	6"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-012 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-012 AND ASSOCIATED ACTUATOR
13	CB-S-013	6"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-013 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-013 AND ASSOCIATED ACTUATOR
14	CB-S-014	8"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-014 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-014 AND ASSOCIATED ACTUATOR
15	CB-S-015	8"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-015 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-015 AND ASSOCIATED ACTUATOR
16	CB-S-016	8"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-016 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-016 AND ASSOCIATED ACTUATOR
17	CB-S-017	8"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-017 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-017 AND ASSOCIATED ACTUATOR
18	CB-S-018	8"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-018 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-017 AND ASSOCIATED ACTUATOR
19	CB-S-019	8"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-019 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-016 AND ASSOCIATED ACTUATOR
20	CB-S-020	12"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-019 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-019 AND ASSOCIATED ACTUATOR
21	CB-S-021	8"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-020 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-020 AND ASSOCIATED ACTUATOR INSTALL NEW VALVE CB-S-021 AND ASSOCIATED ACTUATOR
22	CB-S-021	12"	OPEN/CLOSE OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-021 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-021 AND ASSOCIATED ACTUATOR INSTALL NEW VALVE CB-S-022 AND ASSOCIATED ACTUATOR
23	CB-S-022	12"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-022 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-022 AND ASSOCIATED ACTUATOR INSTALL NEW VALVE CB-S-023 AND ASSOCIATED ACTUATOR
24	CB-S-024	8"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-023 AND ASSOCIATED ACTUATOR	
25	CB-S-025	12"	OPEN/CLOSE OPEN/CLOSE	MOTOR		INSTALL NEW VALVE CB-S-024 AND ASSOCIATED ACTUATOR
26	CB-S-025	6"	OPEN/CLOSE OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-025 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-025 AND ASSOCIATED ACTUATOR
27	CB-S-027	8"	OPEN/CLOSE OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-026 AND ASSOCIATED ACTUATOR REMOVE VALVE CB-S-027 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-026 AND ASSOCIATED ACTUATOR
28	CB-S-027	8"	OPEN/CLOSE OPEN/CLOSE			INSTALL NEW VALVE CB-S-027 AND ASSOCIATED ACTUATOR
29	CB-S-029	8"	OPEN/CLOSE OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-028 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-028 AND ASSOCIATED ACTUATOR
30	CB-S-029 CB-S-030	8"	OPEN/CLOSE OPEN/CLOSE	MOTOR MOTOR	REMOVE VALVE CB-S-029 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-029 AND ASSOCIATED ACTUATOR
31	CB-S-031	8"			REMOVE VALVE CB-S-030 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-030 AND ASSOCIATED ACTUATOR
32	CB-S-031	8"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-031 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-031 AND ASSOCIATED ACTUATOR
33	CB-S-032	6"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-032 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-032 AND ASSOCIATED ACTUATOR
34	CB-S-033	8"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-033 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-033 AND ASSOCIATED ACTUATOR
35		8"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-034 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-034 AND ASSOCIATED ACTUATOR
36	CB-S-035	8"	OPEN/CLOSE	MOTOR	REMOVE VALVE CB-S-035 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-035 AND ASSOCIATED ACTUATOR
37	CB-S-036	8"	OPEN/CLOSE	MANUAL	REMOVE VALVE CB-S-036	INSTALL NEW VALVE CB-S-036
38	CB-S-040	8"	THROTTLING	MOTOR	REMOVE VALVE CB-S-040 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-S-040 AND ASSOCIATED ACTUATOR
39	FE-200-BLV-1	8"	OPEN/CLOSE	MANUAL	REMOVE VALVE FE-200-BLV-1	INSTALL NEW VALVE FE-200-BLV-1
40	FE-200-BLV-2	8"	OPEN/CLOSE	MANUAL	REMOVE VALVE FE-200-BLV-2	INSTALL NEW VALVE FE-200-BLV-2
41	FE-200-BPV-1	6"	OPEN/CLOSE	MANUAL	REMOVE VALVE FE-200-BPV-1	INSTALL NEW VALVE FE-200-BPV-1
1	FE-201-BLV-1		OPEN/CLOSE	MANUAL	REMOVE VALVE FE-201-BLV-1	INSTALL NEW VALVE FE-201-BLV-1
42 43	FE-201-BLV-2	6" 6"	OPEN/CLOSE	MANUAL	REMOVE VALVE FE-201-BLV-2	INSTALL NEW VALVE FE-201-BLV-2
	FE-201-BPV-1	6" 8"	OPEN/CLOSE	MANUAL	REMOVE VALVE FE-201-BPV-1	INSTALL NEW VALVE FE-201-BPV-1
44	FE-202-BLV-1	8"	OPEN/CLOSE	MANUAL	REMOVE VALVE FE-202-BLV-1	INSTALL NEW VALVE FE-202-BLV-1
45	FE-202-BLV-2	8"	OPEN/CLOSE	MANUAL	REMOVE VALVE FE-202-BLV-2	INSTALL NEW VALVE FE-202-BLV-2
46	FE-202-BPV-1	8"	OPEN/CLOSE	MANUAL	REMOVE VALVE FE-202-BPV-1	INSTALL NEW VALVE FE-202-BPV-1
47	FE-203-BLV-1	8"	OPEN/CLOSE	MANUAL	REMOVE VALVE FE-203-BLV-1	INSTALL NEW VALVE FE-203-BLV-1
48	FE-203-BLV-2	8"	OPEN/CLOSE	MANUAL	REMOVE VALVE FE-203-BLV-2	INSTALL NEW VALVE FE-203-BLV-2
49	FE-203-BPV-1	8"	OPEN/CLOSE	MANUAL	REMOVE VALVE FE-203-BPV-1	INSTALL NEW VALVE FE-203-BPV-1
50	FE-204-BLV-1	8"	OPEN/CLOSE	MANUAL	REMOVE VALVE FE-204-BLV-1	INSTALL NEW VALVE FE-204-BLV-1
51	FE-204-BLV-2	8"	OPEN/CLOSE	MANUAL	REMOVE VALVE FE-204-BLV-2	INSTALL NEW VALVE FE-204-BLV-2
52	FE-204-BPV-1	8"	OPEN/CLOSE	MANUAL	REMOVE VALVE FE-204-BPV-1	INSTALL NEW VALVE FE-204-BPV-1
53	CB-STP-1	8"	OPEN/CLOSE	EXIST. AIR ACTUATED	REMOVE VALVE CB-STP-1 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-STP-1 ACTUATOR
54	CB-STP-2	8"	OPEN/CLOSE	EXIST. AIR ACTUATED	REMOVE VALVE CB-STP-2 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE CB-STP-2 ACTUATOR
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	ISO-01	12"	OPEN/CLOSE	EXIST. AIR ACTUATED	REMOVE VALVE ISO-01 AND ASSOCIATED ACTUATOR	INSTALL NEW VALVE ISO-01 ACTUATOR
L			III			THO THE TOTAL TOTA

GENERAL NOTES:

1. EXISTING AIR ACTUATORS ARE TO BE REPLACED WITH MOTOR ACTUATORS.

2. EXISTING VALVES WITH CHAIN WHEEL OPERATORS ARE TO BE REPLACED IN KIND.

Lockwood, Andrews & Newnam, Inc.

A LEO A DALY COMPANY
PLANNING ENGINEERING PROGRAM MANAGEMENT
107 Hampton Road, Suite 190, Clearwater, FL 33759
Tel 727-726-0005 Fax 727-726-0009
CA Lic. No: 9086

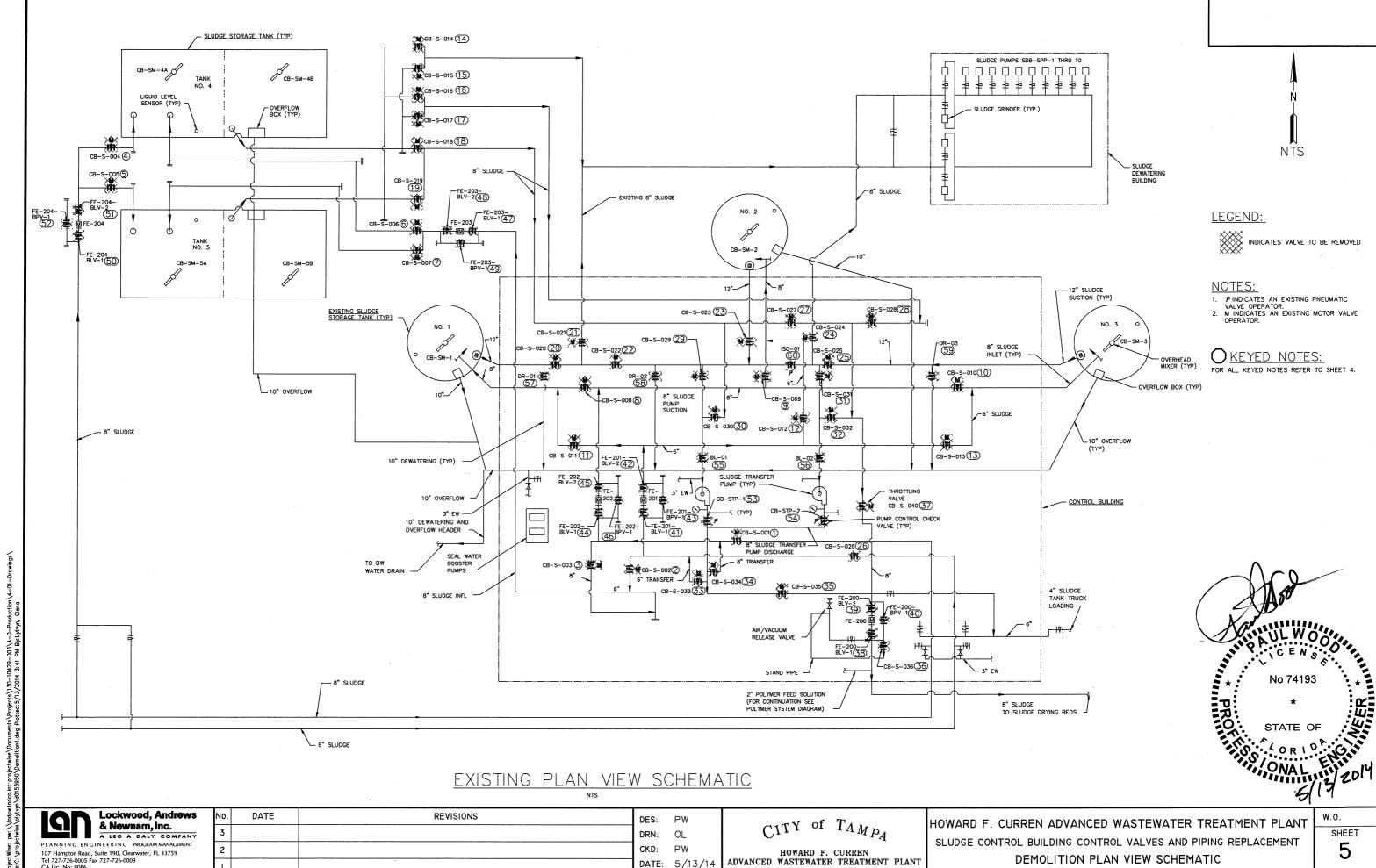
No.	DATE	REVISIONS	DES:	PW
3			DRN:	OL
2			CKD:	PW
1	-		DATE:	5/13/1

CITY of TAMPA

HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT

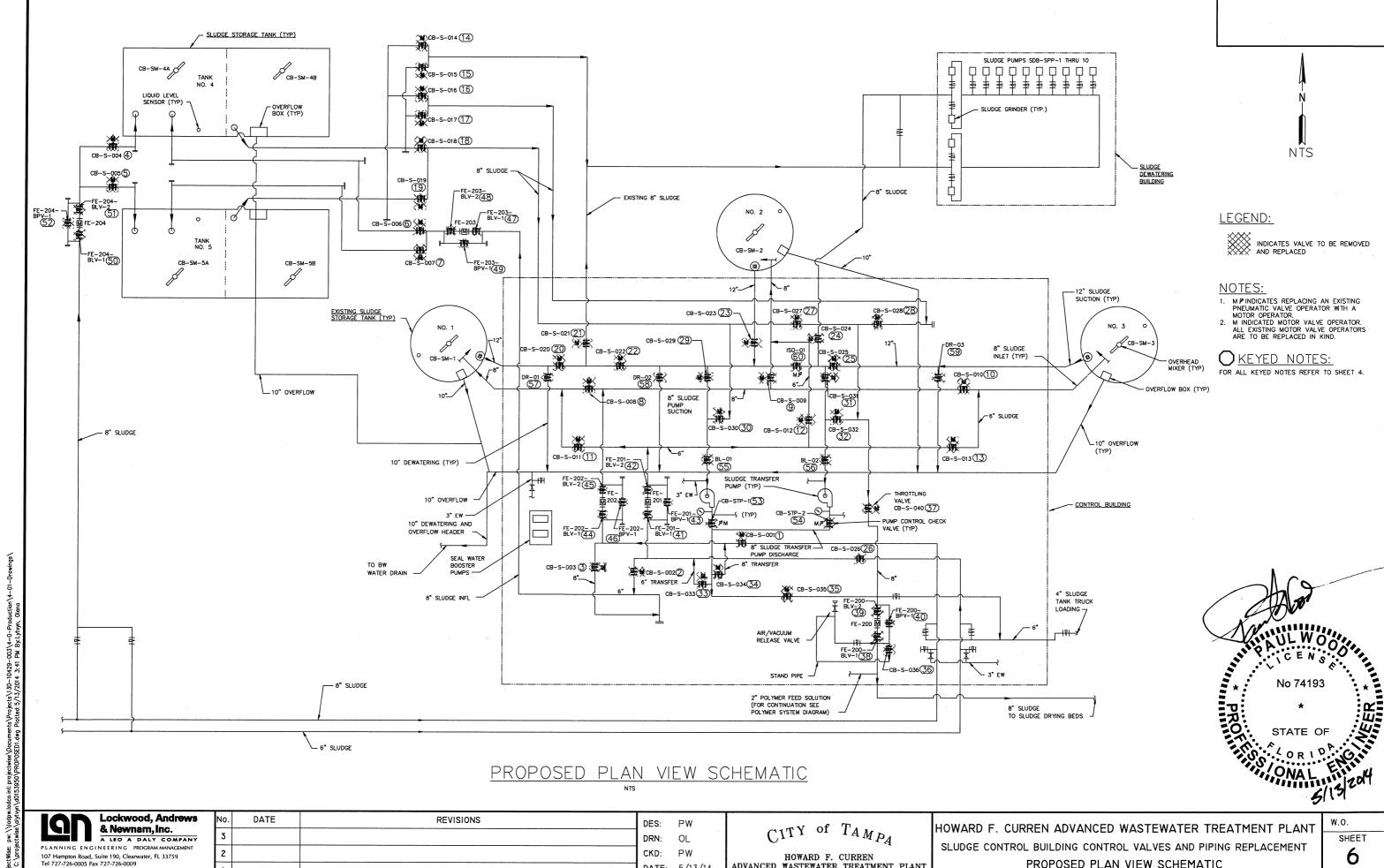
HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT SLUDGE CONTROL BUILDING CONTROL VALVES AND PIPING REPLACEMENT VALVE SCHEDULE

W.O.



DATE: 5/13/14

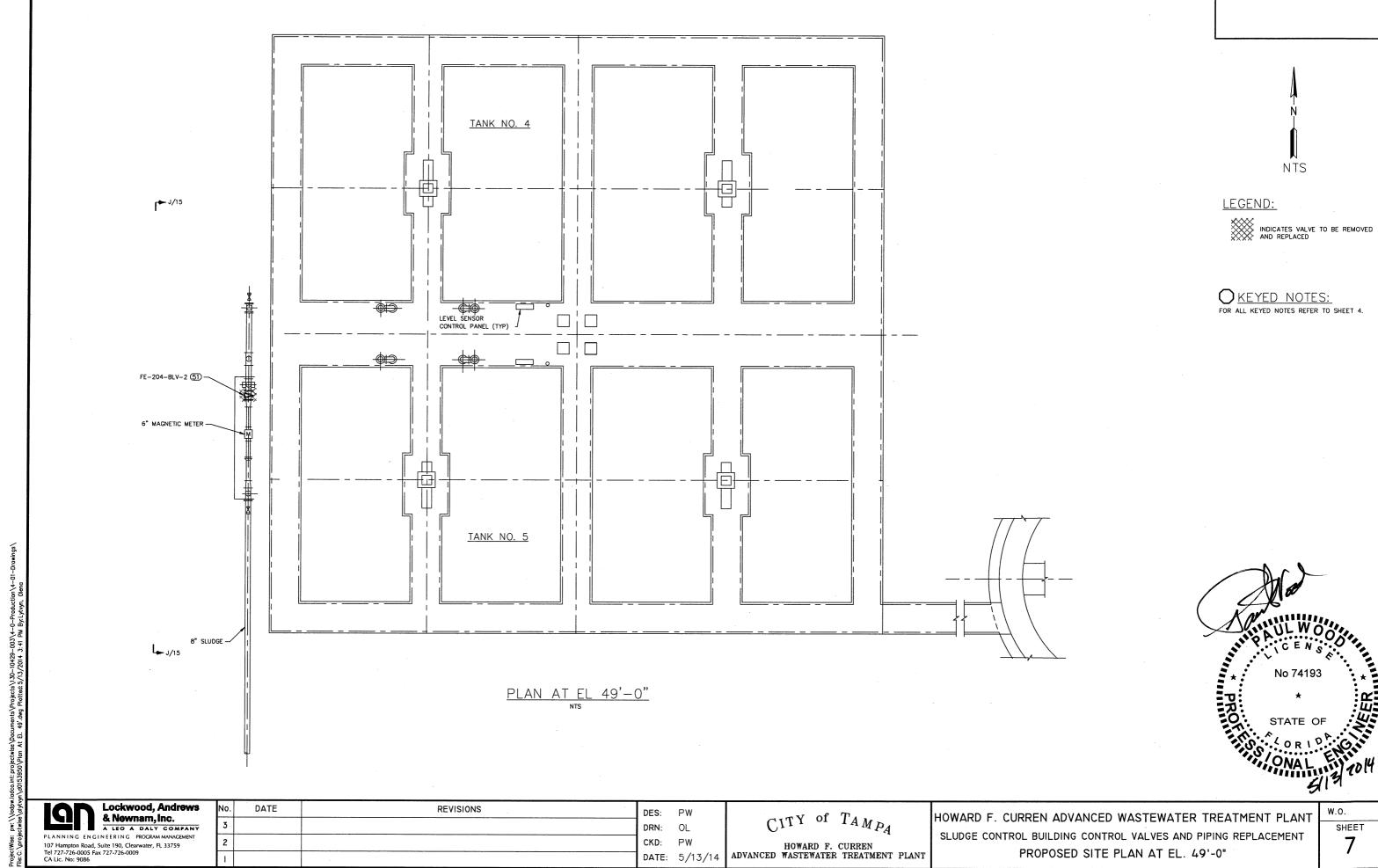
CA Lic. No: 9086



DATE: 5/13/14

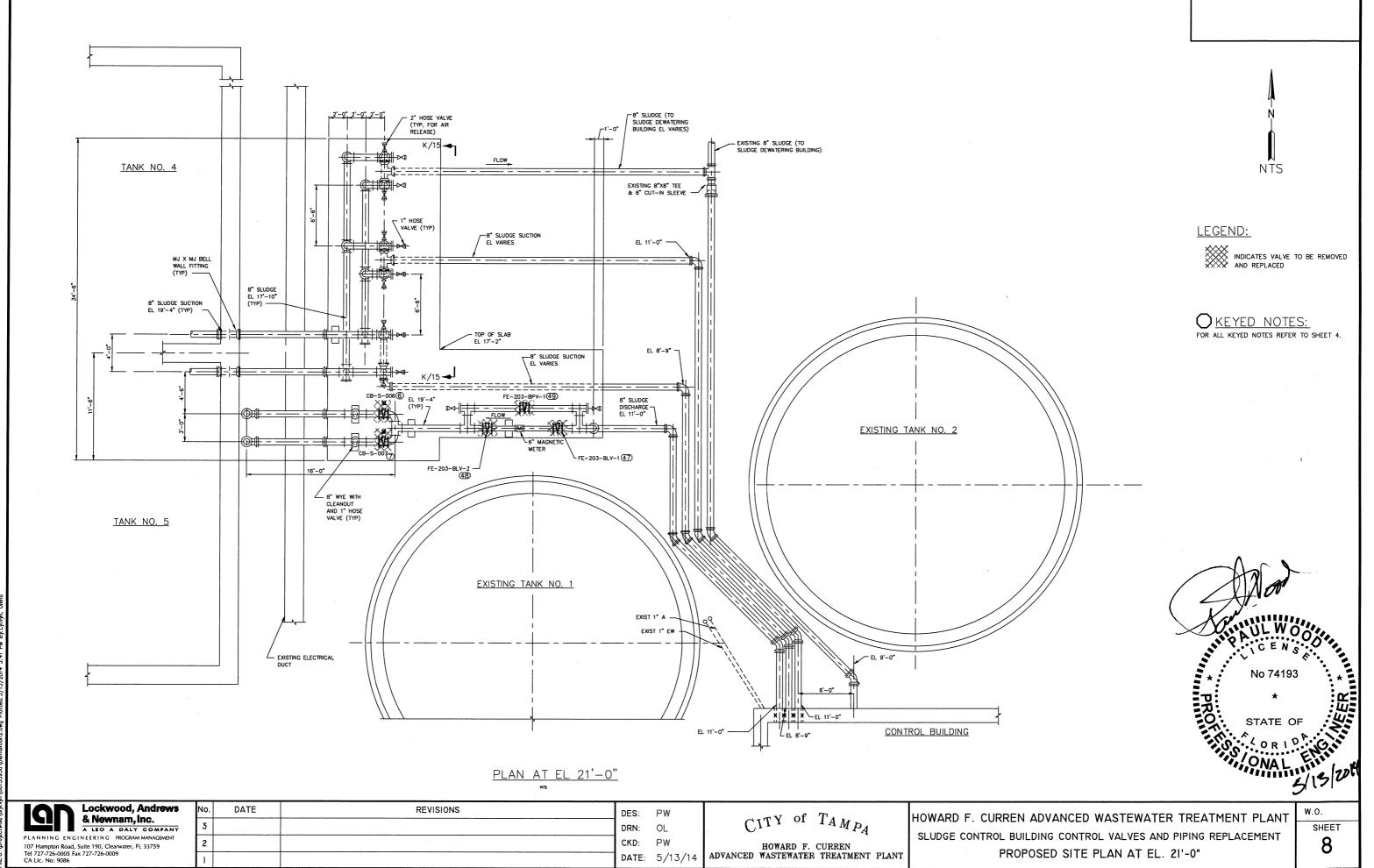
HOWARD F. CURREN
ADVANCED WASTEWATER TREATMENT PLANT

PROPOSED PLAN VIEW SCHEMATIC

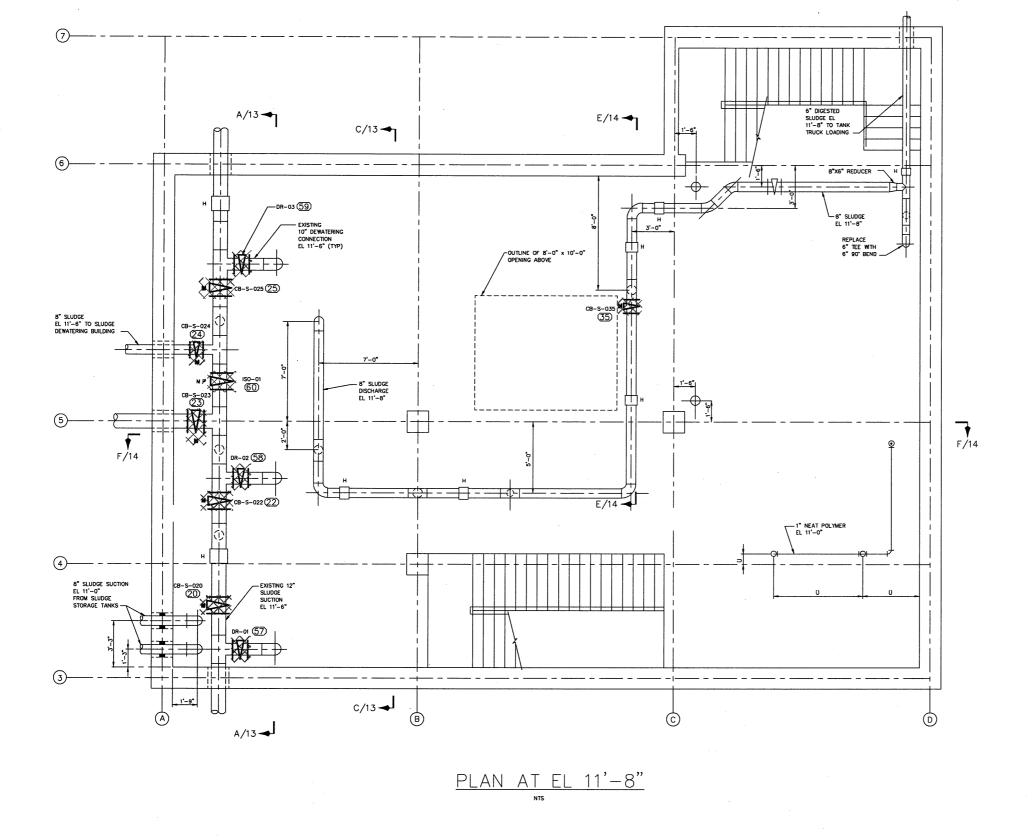


DATE: 5/13/14

PROPOSED SITE PLAN AT EL. 49'-0"



ProjectWise: pw://lodpw.ladco.int.projectwise\Documents\Projects\130-10429-003\4-0-Production\4



LEGEND:

INDICATES VALVE TO BE REMOVED AND REPLACED

NOTES:

M P INDICATES REPLACING AN EXISTING PNEUMATIC VALVE OPERATOR WITH A MOTOR OPERATOR.

KEYED NOTES: FOR ALL KEYED NOTES REFER TO SHEET 4.

Lockwood, Andrews & Newnam, Inc. PLANNING ENGINEERING PROGRAM MANAGEMENT 107 Hampton Road, Suite 190, Clearwater, FL 33759 Tel 727-726-0005 Fax 727-726-0009 CA Lic. No: 9086

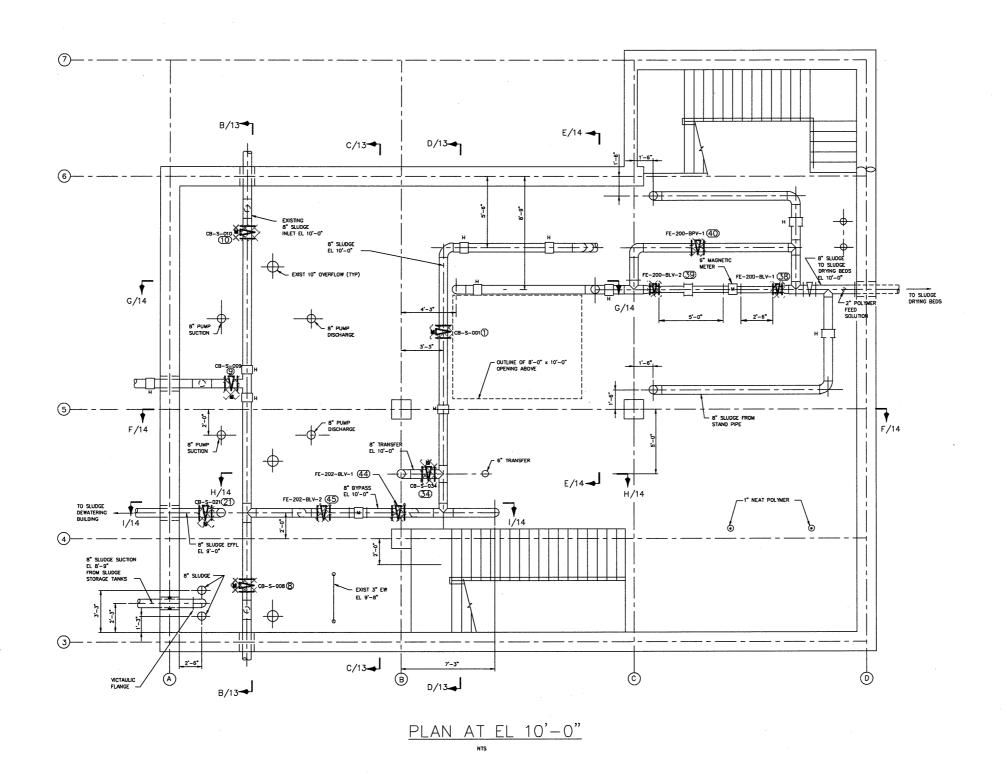
REVISIONS DATE

DES: PW DRN: OL CKD: PW DATE: 5/13/14

CITY of TAMPA HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT

HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT SLUDGE CONTROL BUILDING CONTROL VALVES AND PIPING REPLACEMENT PROPOSED SITE PLAN AT EL. II'-8"





≪-z-€ NTS

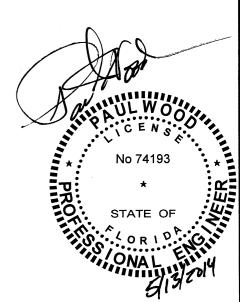
LEGEND:

INDICATES VALVE TO BE REMOVED AND REPLACED

FOR ALL KEYED NOTES:

NOTES:

SHEET 4.

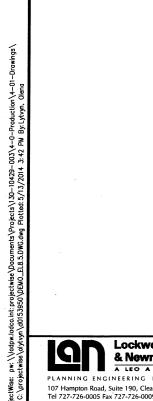


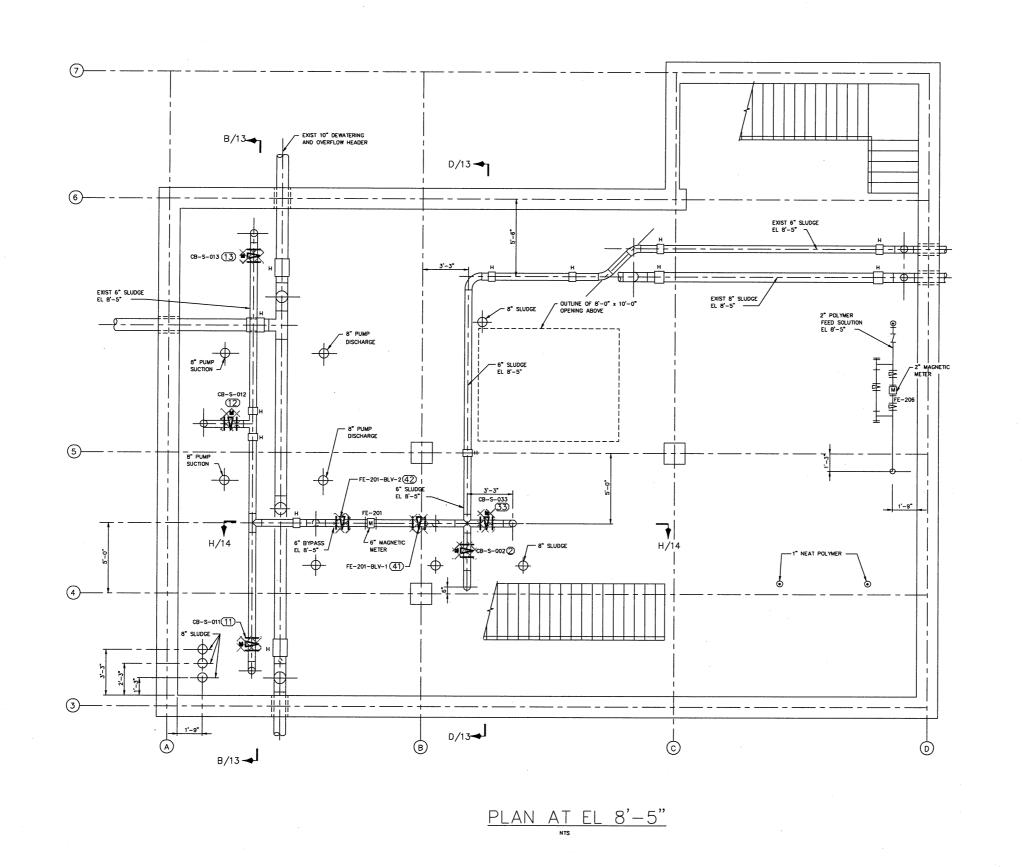
Lockwood, Andrews
& Newnam, Inc.
A LEO A DALY COMPANY
PLANNING ENGINEERING PROGRAM MANAGEMENT
107 Hampton Road, Suite 190, Clearwater, FL 33759
Tel 727-726-0005 Fax 727-726-0009
CA Lic. No: 9086

No.	DATE	REVISIONS	DES:	PW
3			DRN:	OL
2		·	CKD:	PW
T			DATE:	5/13/14

CITY of $T_{AMP_{\mathcal{A}}}$ HOWARD F. CURREN
ADVANCED WASTEWATER TREATMENT PLANT

HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT SLUDGE CONTROL BUILDING CONTROL VALVES AND PIPING REPLACEMENT PROPOSED SITE PLAN AT EL. 10'-0"





LEGEND:

INDICATES VALVE TO BE REMOVED AND REPLACED

KEYED NOTES: FOR ALL KEYED NOTES REFER TO SHEET 4.

Lockwood, Andrews
& Newnam, Inc.

A LEO A DALY COMPANY
PLANNING ENGINEERING PROGRAM MANAGEMENT
107 Hampton Road, Suite 190, Clearwater, FL 33759
Tel 727-726-0005 Fax 727-726-0009
CA Lic. No: 9086

DATE REVISIONS DES: DRN: CKD:

PW OL PW

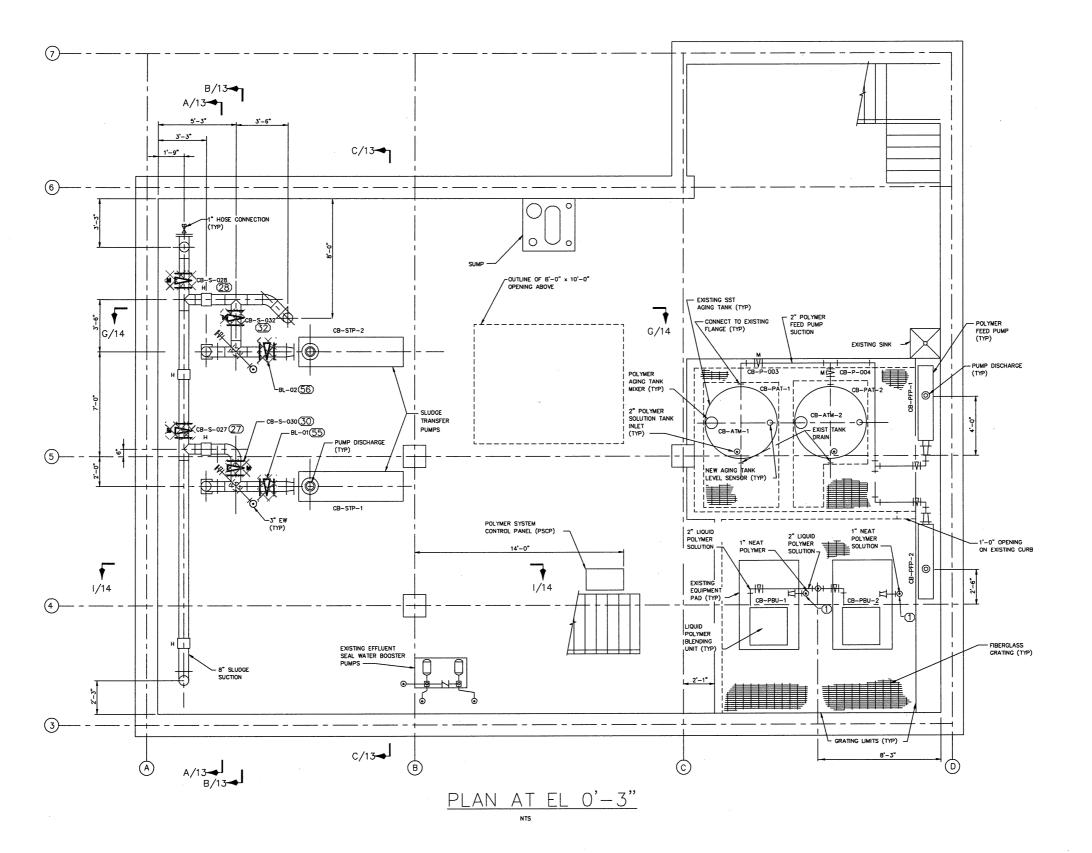
CITY of TAMPA

CKD: PW HOWARD F. CURREN

DATE: 5/13/14 ADVANCED WASTEWATER TREATMENT PLANT

HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT SLUDGE CONTROL BUILDING CONTROL VALVES AND PIPING REPLACEMENT PROPOSED SITE PLAN AT EL. 8'-5"

W.O. SHEET



LEGEND:

INDICATES VALVE TO BE REMOVED AND REPLACED

KEYED NOTES:

1. REFER TO SECTION A ON SHEET 16 FOR POLYMER PIPING TO TO BE REPLACED.
2. FOR KEYED NOTES 27, 28, 30, 32, 55, AND 56 REFER TO SHEET 4.

Lockwood, Andrews & Newnam, Inc. PLANNING ENGINEERING PROGRAM MANAGEMENT 107 Hampton Road, Suite 190, Clearwater, FL 33759 Tel 727-726-0005 Fax 727-726-0009 CA Lic. No: 9086

REVISIONS DATE DES: DRN: CKD: DATE: 5/13/14

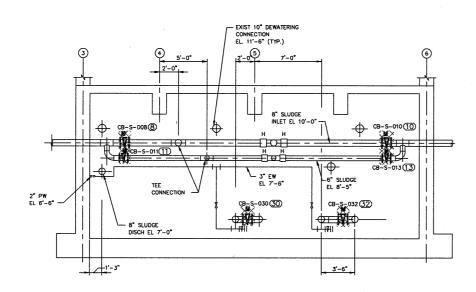
PW OL

CITY of TAMPA

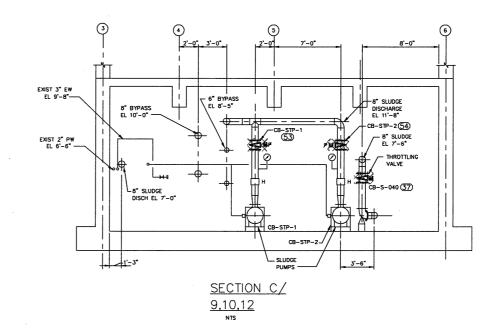
HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT

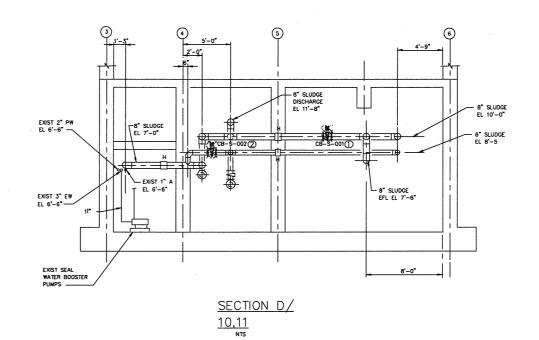
HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT SLUDGE CONTROL BUILDING CONTROL VALVES AND PIPING REPLACEMENT PROPOSED SITE PLAN EL. 0'-3"

W.O.



SECTION B/ 10,11,12





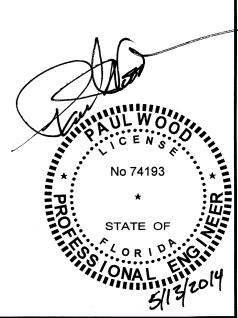
LEGEND:



NOTES:

M P INDICATES REPLACING PNEUMATIC
 VALVE OPERATOR WITH MOTOR OPERATOR

KEYED NOTES: FOR ALL KEYED NOTES REFER TO SHEET 4.



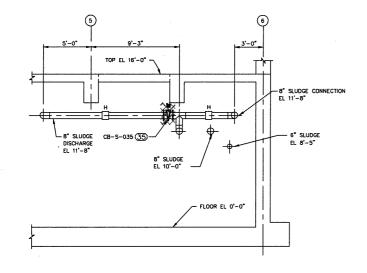
ION	Lockwood, Andrews & Newnam, Inc.
	A LEO A DALY COMPANY
LANNING ENG	GINEERING PROGRAM MANAGEMENT
7 Hampton Road,	, Suite 190, Clearwater, FL 33759
727-726-0005 Fa	ax 727-726-0009
Lic. No: 9086	

No.	DATE	REVISIONS	DES:	PW
3			DRN:	OL
2			CKD:	PW
_			DATE:	5/13/14

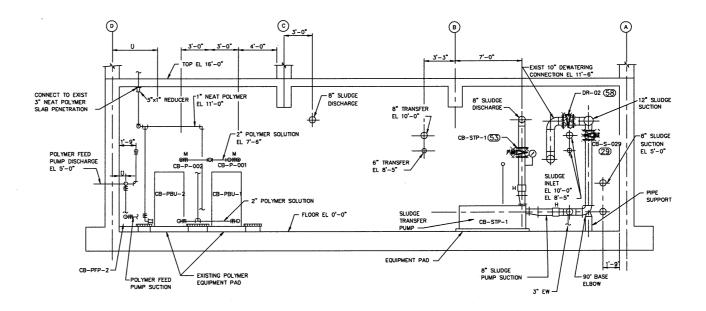
CITY of TAMPA

HOWARD F. CURREN
ADVANCED WASTEWATER TREATMENT PLANT

HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT SLUDGE CONTROL BUILDING CONTROL VALVES AND PIPING REPLACEMENT PROPOSED SECTION VIEWS A-D



SECTION E/ 9,10 NTS



SECTION F/ 9,10 NTS LEGEND:

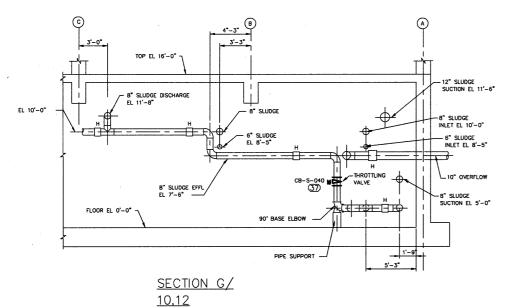


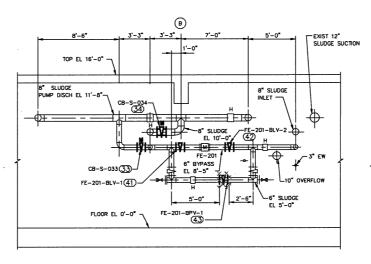
NOTES:

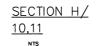
M P INDICATES REPLACING PNEUMATIC
 VALVE OPERATOR WITH MOTOR OPERATOR

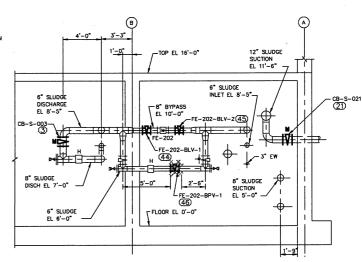
FOR ALL KEYED NOTES:

FOR ALL KEYED NOTES REFER TO SHEET 4.

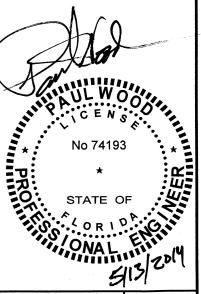








<u>SECTION I/</u> 10,12 NTS



Lockwood, Andrews & Newnam, Inc.

A LEO A DALY COMPANY
PLANNING ENGINEERING PROGRAM MANAGEMENT
107 Hampton Road, Suite 190, Clearwater, FL 33759
Tel 727-726-0005 Fax 727-726-0009
CA Lic. No: 9086

No. DATE REVISIONS

3
2
1

DES: PW
DRN: OL
CKD: PW
DATE: 5/13/14

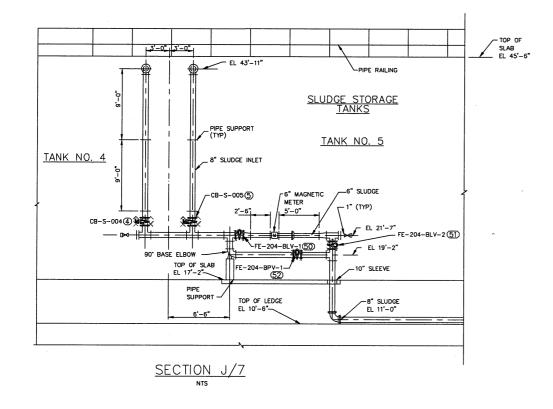
CITY of TAMPA

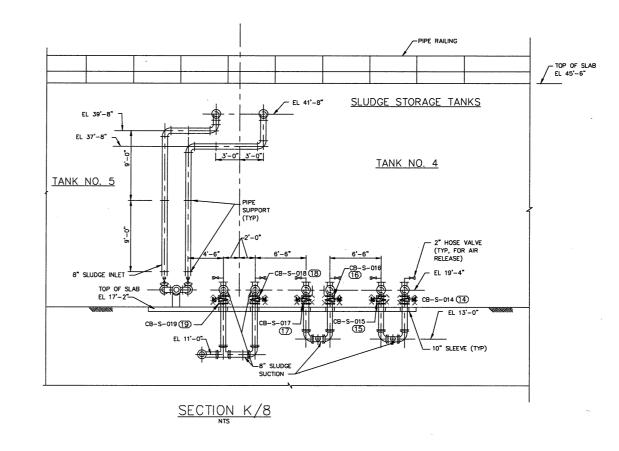
HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT

HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT SLUDGE CONTROL BUILDING CONTROL VALVES AND PIPING REPLACEMENT PROPOSED SECTION VIEWS E-I

W.O. SHEET

ProjectWise: pw: \\lodpw.ladco.int.projectwise\Dacuments\Projects\130-10429-003\4-0-Pro. File: C:\projectwise\oldryvn\\d0153950\DEMO_SEC17-22.4wp Plotted: 5/13/2014_3:43_PM_Bx_L





LEGEND:



O KEYED NOTES:
FOR ALL KEYED NOTES REFER TO SHEET 4.

No 74193

STATE OF

ONAL

MARKET STATE OF

Lockwood, Andrews & Newnam, Inc.

A LEG A DALY COMPANY
PLANNING ENGINEERING PROGRAM MANAGEMENT
107 Hampton Road, Suite 190, Clearwater, FL 33759
Tel 727-726-0005 Fax 727-726-0009
CA Lic. No. 9086

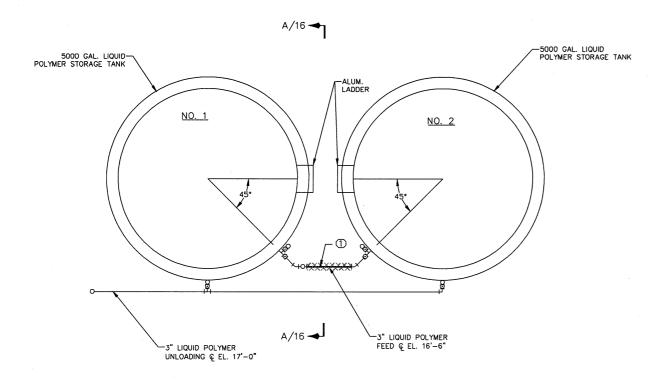
No. DATE REVISIONS DES:
3 DRN:
2 CKD:
DATE:

DES: PW
DRN: OL
CKD: PW
DATE: 5/13/14

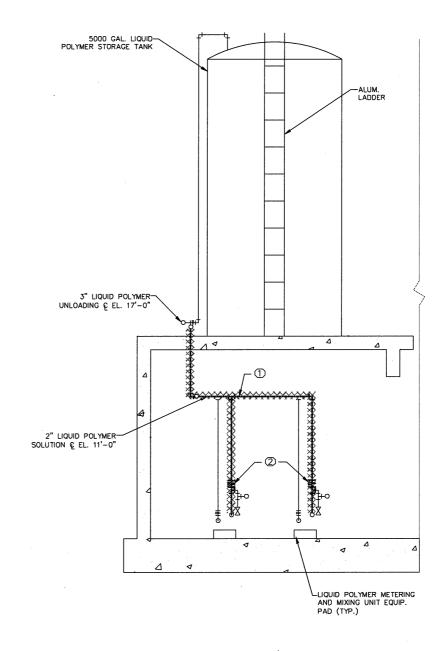
CITY of TAMPA

CKD: PW HOWARD F. CURREN
DATE: 5/13/14 ADVANCED WASTEWATER TREATMENT PLANT

HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT SLUDGE CONTROL BUILDING CONTROL VALVES AND PIPING REPLACEMENT PROPOSED SECTION VIEWS J-K



PLAN AT EL. 16'-0"



SECTION A/16

LEGEND:

INDICATES VALVES AND PIPING TO BE REMOVED AND REPLACED.

KEYED NOTES:

- 1. EXISTING PIPING, SHOWN IN BOLD, IS TO BE REPLACED WITH SCHEDULE 80 PVC PIPING AND FITTINGS. AT THE CONTRACTORS OPTION PIPING MAY BE JOINED BY SOLVENT WELDING, OR SCREWED AND FLANGED CONNECTIONS. IF SOLVENT WELDED CONNECTIONS ARE UTILIZED, UNIONS OR FLANGES MUST BE INSTALLED TO ALLOW THE PIPING SYSTEM TO BE DISASSEMBLED.

 2. REMOVE AND REPLACE EXISTING 2 INCH PLUG VALVES IN KIND.

No 74193

STATE OF

OR 1 DA

ONAL

W/

Lockwood, Andrews & Newnam, Inc. PLANNING ENGINEERING PROGRAM MANAGEMENT 107 Hampton Road, Suite 190, Clearwater, FL 33759 Tel 727-726-0005 Fax 727-726-0009 CA Lic. No: 9086

DATE REVISIONS DES: PW DRN: OL CKD:

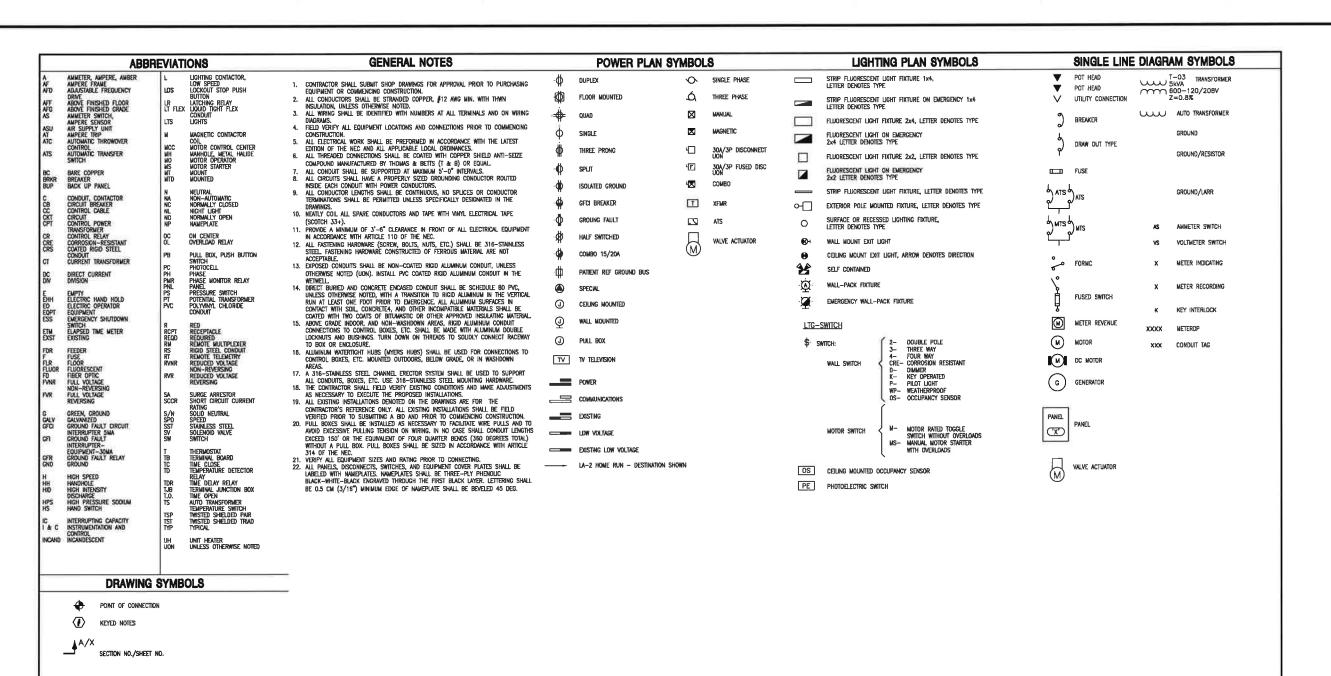
CITY of T_{AMP_A}

CKD: PW HOWARD F. CURREN
DATE: 5/13/14 ADVANCED WASTEWATER TREATMENT PLANT

HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT SLUDGE CONTROL BUILDING CONTROL VALVES AND PIPING REPLACEMENT PROPOSED POLYMER TANK PIPING

SHEET

16



NOTES:

1. THIS IS A STANDARD LEGEND, SOME SYMBOLS OR ABBREVIATIONS MAY APPEAR ON THIS DRAWING AND NOT ON PLANS.

STATE OF

OR 1

ONAL

TRICAL ENGINEER

W.O. No 76573



107 Hampton Road, Suite 190, Clearwater, FL 33759 Tel 727-726-0005 Fax 727-726-0009 CA Lic. No: 9086

No.	DATE	REVISIONS	DES:	GG
3			DRN:	OL
2			CKD:	DH
1			DATE:	5/13/14

CITY of TAMPA

HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT

HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT SLUDGE CONTROL BUILDING CONTROL VALVES AND PIPING REPLACEMENT **ELECTRICAL GENERAL NOTES**

W.O. SHEET

1. EXISTING EQUIPMENT TO REMAIN (SHOWN

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 ABBREWAITIONS.
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 DEMOLITION. TAG AND TRACE ALL EXISTING VALVE ACTUATOR POWER AND CONTROL CONDUCTORS PRIOR TO REMOVAL. CREATE A POINT—TO—POINT WIRING LIST AND MARK CONDUCTORS TO FACILITATE RECONNECTION.

FACILITATE RECONNECTION.

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 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 21. COORDINATE DISCONNECTION WITH THE CITY. EXISTING PULL BOX TO REMAIN. EXISTING CONDUIT TO EXISTING RTU CABINET TO REMAIN.

TO REMAIN.

EXISTING CONDUIT TO "CBCP" TO REMAIN.

5. EXISTING CONDUIT TO "MCC-501A" TO REMAIN.
6. EXISTING JUNCTION BOX AND CONTROL

CONDUITS BACK TO "STPCP" TO REMAIN. EXISTING CONDUIT TO "LP-502" TO REMAIN

7. EXISTING CONDUIT TO "PSOP" TO REMAIN.

9. RESERVED.

10. EXISTING PRESSURE SWITCHES, PUSH BUTTON CONTROL, CONTROL WRING, AND CONTROL CONDUITS TO "STPCP" TO REMAIN.

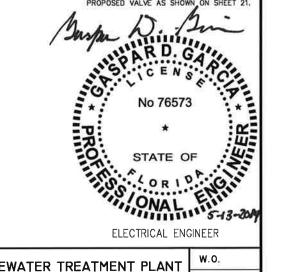
11. REMOVE EXISTING PNEUMATIC SOLENOID

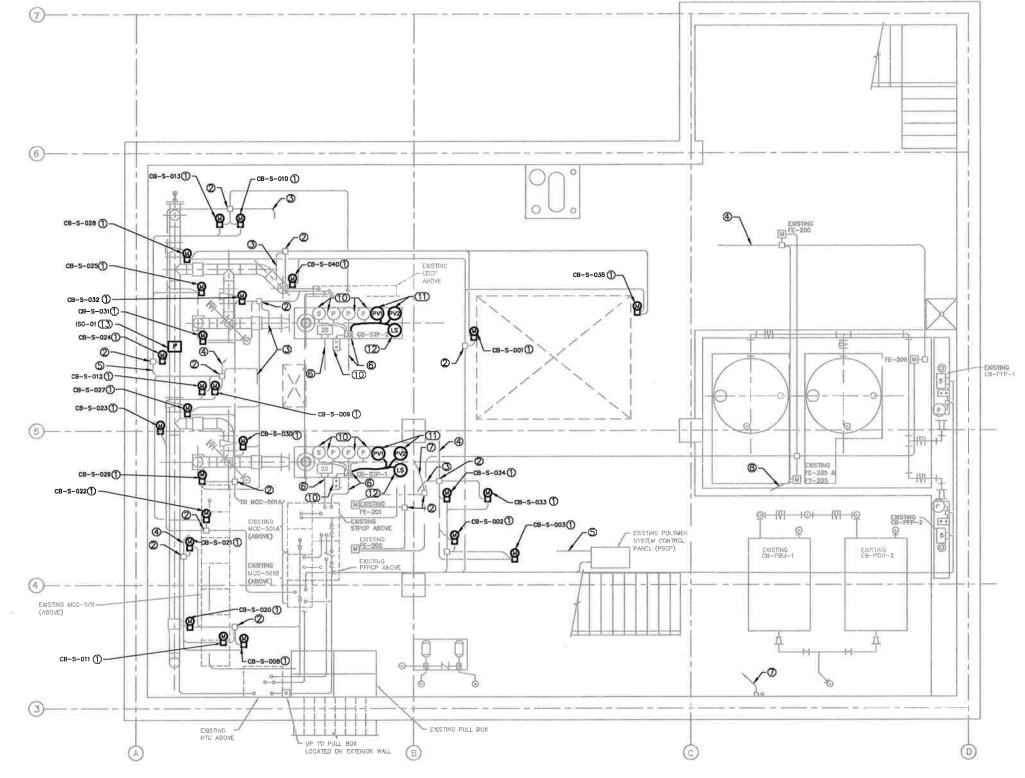
PILOT VALVES "PV1" AND "PV2". REMOVE PILOT VALVES "PVI" AND "PVZ". REMOVE EXISTING CONTROL CONDUIT(S) BACK TO JUNCTION BOX. REMOVE EXISTING CONTROL CONDUCTORS BACK TO "STPCP".

12. REMOVE EXISTING PNEUMATIC VALVE LIMIT SWITCH. REMOVE EXISTING CONTROL CONDUIT(S) BACK TO JUNCTION BOX. REMOVE EXISTING CONTROL CONDUCTORS BACK TO "STPCP".

"STPCP".

13. COORDINATE REMOVAL OF PNEUMATIC ACTUATOR AND PNEUMATIC CONTROLS WITH MECHANICAL CONTRACTOR. REMOVE CONTROL CONDUCTORS BACK TO PANELS "RTU" AND "CBCP". FIELD VERIFY EXISTING CONTROL CONDUIT SIZE IS ADEQUATE FOR PROPOSED CONDUIT SIZE IS ADEQUATE FOR PROPOSED CONTROL CONDUCTORS AS SHOWN ON SHEET 21. IF CONDUIT SIZE NOT LARGE ENOUGH PROVIDE CONDUIT AS SHOWN ON SHEET 27. FIELD VERIFY EXISTING VALVE CONTROL IN "CBCP" AND "RTU" AND MODIFY AS NECESSARY TO ENSURE OPERATION OF PROPOSED VALVE AS SHOWN ON SHEET 21.





EXISTING PLAN AT EL 0'-3"

GG

OL

Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY PLANNING ENGINEERING PROGRAM MANAGEMENT

107 Hampton Road, Suite 190, Clearwater, FL 33759 Tel 727-726-0005 Fax 727-726-0009 CA Lic. No: 9086

REVISIONS DATE DES: DRN: CKD: DATE: 5/13/14

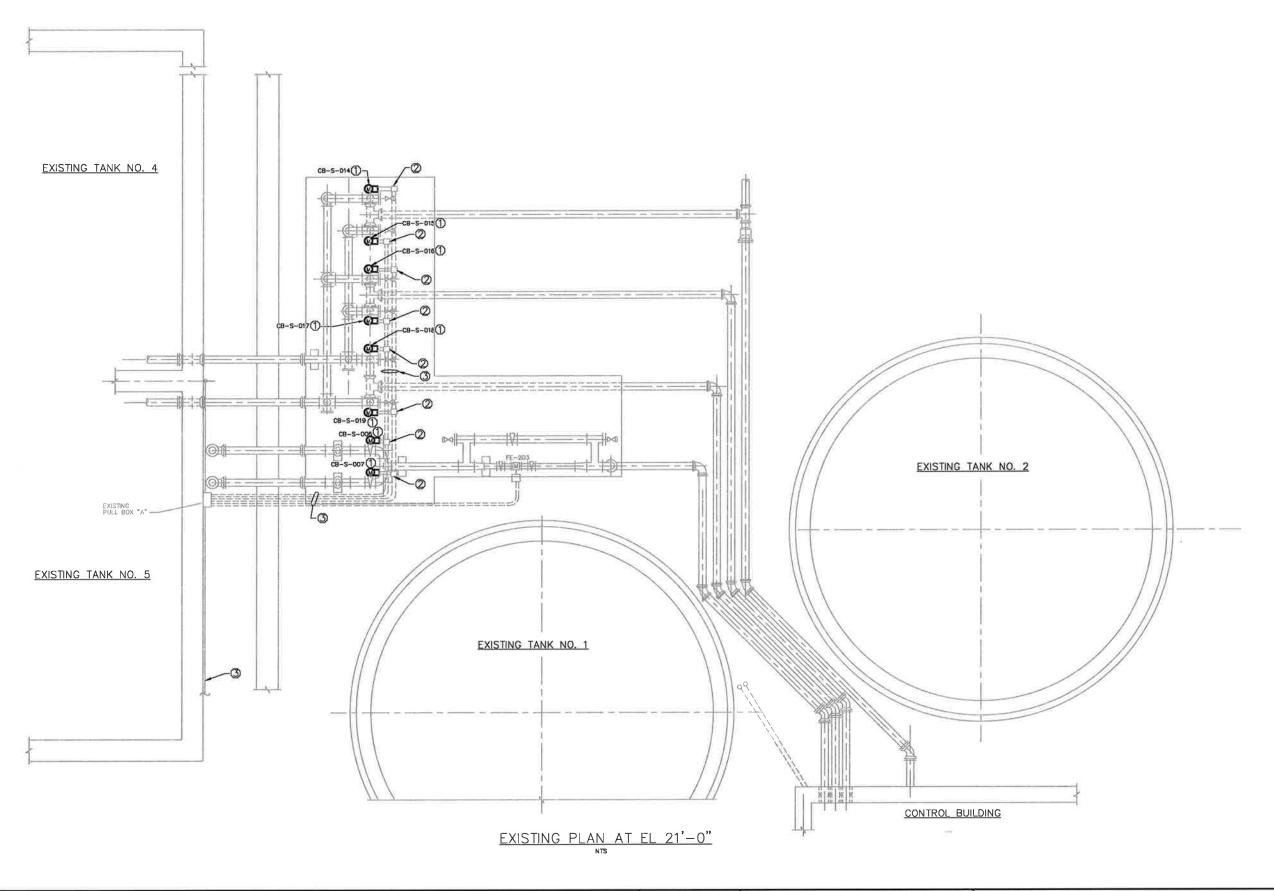
CITY of TAMPA HOWARD F. CURREN

ADVANCED WASTEWATER TREATMENT PLANT

HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT SLUDGE CONTROL BUILDING CONTROL VALVES AND PIPING REPLACEMENT ELECTRICAL DEMOLITION PLAN AT EL. 0'-3"

W.O. SHEET

18





- 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 FOWER 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. TAC AND TRACE ALL EXISTING VALVE ACTUATOR POWER AND CONTROL CONDUCTORS PRIOR TO REMOVAL.
- CONTROL CONDUCTORS PRIOR TO REMOVAL.

 EXISTING VALVE ACTUATORS AS SHOWN ARE DERIVED FROM RECORD DRAWINGS. FIELD VERIFY EXISTING LOCATIONS PRIOR TO REMOVAL.

KEYED NOTES:

- 1. 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.

 2. EXISTING PULL BOX TO REMAIN.

 3. EXISTING CONDUITS TO "MCC-501A", "MCC-501B", AND "CBCP" TO REMAIN.

STATE OF

OR 1

ONAL

TOTRICAL ENGINEER

W.O.

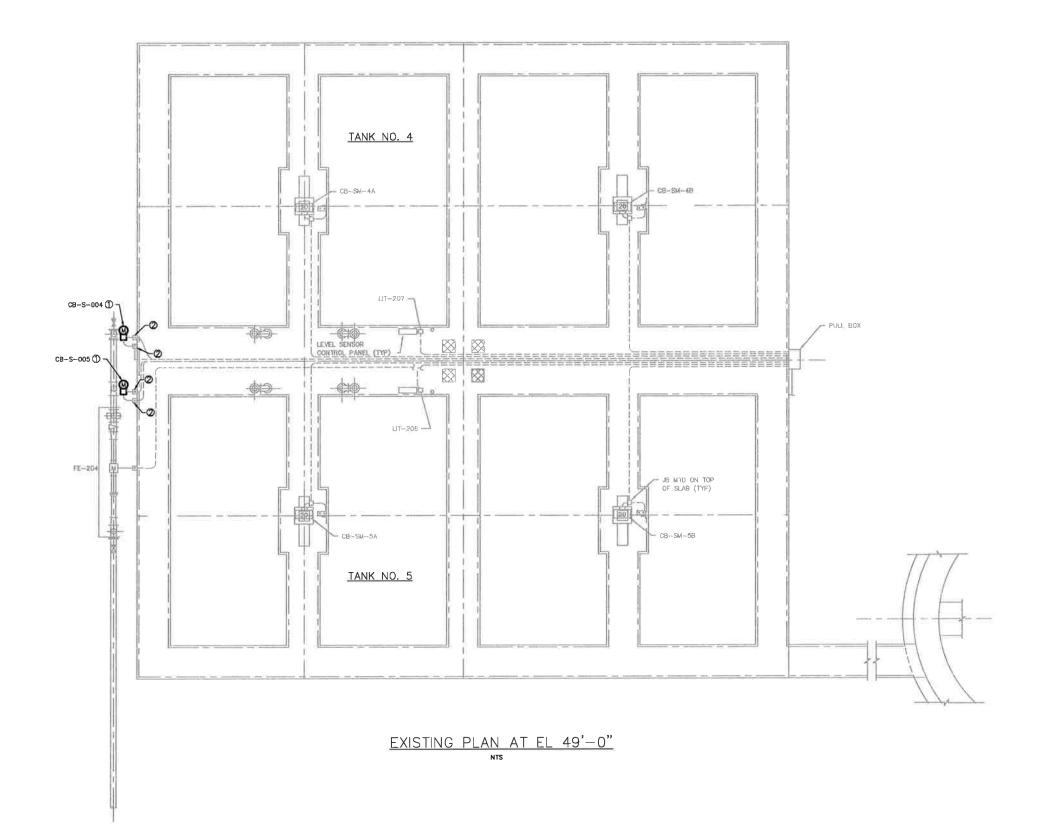
Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY PLANNING ENGINEERING PROGRAM MANAGEMENT 107 Hampton Road, Suite 190, Clearwaler, FL 33759 Tel 727-726-0005 Fax 727-726-0009 CA Lic. No: 9086

REVISIONS DATE DES: GG DRN: OL CKD:

CITY of TAMPA

HOWARD F. CURREN DATE: 5/13/14 ADVANCED WASTEWATER TREATMENT PLANT HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT SLUDGE CONTROL BUILDING CONTROL VALVES AND PIPING REPLACEMENT **ELECTRICAL DEMOLITION PLAN AT EL. 21'-0"**

W.O.





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 ABBREVIATIONS.

 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 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 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 23. COORDINATE DISCONNECTION WITH THE CITY.

 2. EXISTING PULL BOX TO REMAIN.

STATE OF
OR 1
ONA L
S13-204
TRICAL ENGINEER
TT W.0

Lockwood, Andrews & Newnam, Inc. PLANNING ENGINEERING PROGRAM MANAGEMENT

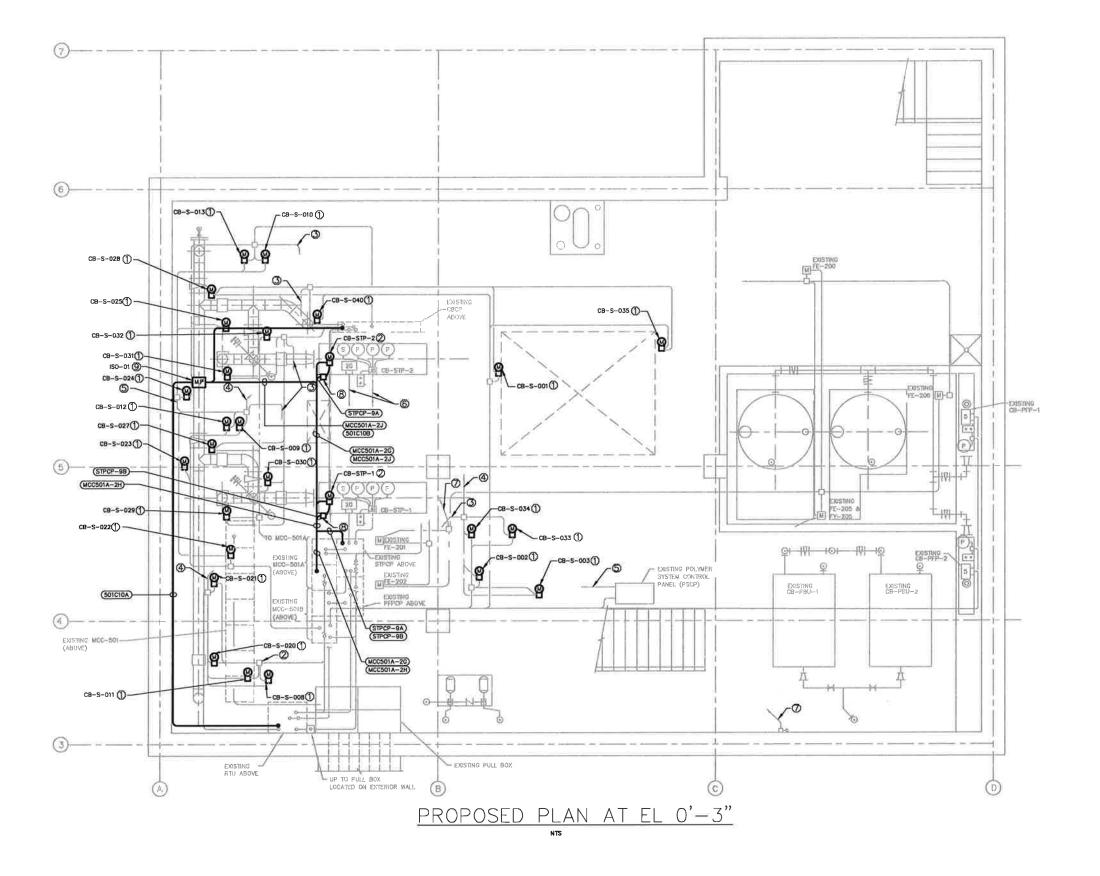
107 Hampton Road, Suite 190, Clearwater, FL 33759 Tel 727-726-0005 Fax 727-726-0009 CA Lic. No: 9086

REVISIONS DATE DES: DRN: CKD: **DATE**: 5/13/14

GG OL DH CITY of TAMPA

HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT

HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT SLUDGE CONTROL BUILDING CONTROL VALVES AND PIPING REPLACEMENT ELECTRICAL DEMOLITION PLAN AT EL. 49'-0"



GENERAL NOTES:

- 1. EXISTING EQUIPMENT TO REMAIN (SHOWN 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 24 FOR "MCC-501A", "STPCP", "RTU" AND "CBCP" LOCATIONS.
 REFER TO SHEET 25 FOR ONE-LINE DIAGRAM

- DIAGRAM.

 5. REFER TO SHEET 27 FOR ELECTRICAL CONDUIT SCHEDULE.

 6. PROPOSED VALVE ACTUATORS AS SHOWN ARE DERIVED FROM RECORD DRAWINGS.
- REFER TO PLANS AND SECTIONS SHEETS 9
 THROUGH 16 FOR LOCATIONS.
 7. REFER TO SHEET 28 FOR PROPOSED
 VALVE ACTUATOR SCHEMATICS.

KEYED NOTES:

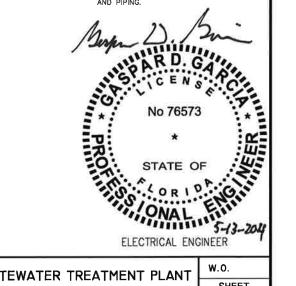
- COORDINATE INSTALLATION OF PROPOSED VALVE ACTUATOR WITH MECHANICAL CONTRACTOR. EXTEND EXISTING POWER AND CONTROL CONDUCTORS AND CONDUIT TO PROPOSED VALVE ACTUATOR FROM NEAREST PULL BOX. IF EXISTING CONDUCTORS ARE FOUND TO BE DETERIORATED PROVIDE NEW CONDUCTORS WHERE EXISTING CONDUCTORS ARE NOT LONG ENOUGH FIELD VERIFY TO MATCH EXISTING, SPLICE FROM NEAREST PULL BOX AND EXITEND TO PROPOSED VAI VE PULL BOX AND EXTEND TO PROPOSED VALVE ACTUATOR.

 2. COORDINATE INSTALLATION OF PROPOSED
- 2. COORDINATE INSTALLATION OF PROPOSED VALVE ACTUATOR WITH MECHANICAL CONTRACTOR. PROVIDE POWER AND CONTROL CONDUIT/CONDUITORS AS INDICATED BY CONDUIT TO CONDUIT TOUTING SHOWN IS DIAGRAMMATIC. FIELD VERIFY ROUTING WITH EXISTING CONDUITS AND PIPING.

 3. EXISTING CONDUIT TO EXISTING RTU CABINET TO REMAIN.

 4. EXISTING CONDUIT TO "CBCP" TO REMAIN.

 5. FXISTING CONDUIT TO "CBCP" TO REMAIN.
- 5. EXISTING CONDUIT TO "MCC-501A" TO REMAIN.
- EXISTING CONDUIT TO "STPCP" TO REMAIN.
 EXISTING CONDUIT TO "LP-502" TO REMAIN.
 REFER TO GENERAL NOTE 20 ON SHEET 17.
 COORDINATE INSTALLATION OF PROPOSED
 VALVE ACTUATOR WITH MECHANICAL
 CONTRACTOR. PROVIDE POWER CONDUIT/CONDUITORS AS INDICATED BY CONDUIT TAG. PROVIDE CONTROL CONDUCTORS IN EXISTING CONTROL CONDUIT. AS INDICATED BY CONDUIT TAG. CONDUIT ROUTING SHOWN IS DIAGRAMMATIC. FIELD VERIFY ROUTING WITH EXISTING CONDUITS AND PIPING.





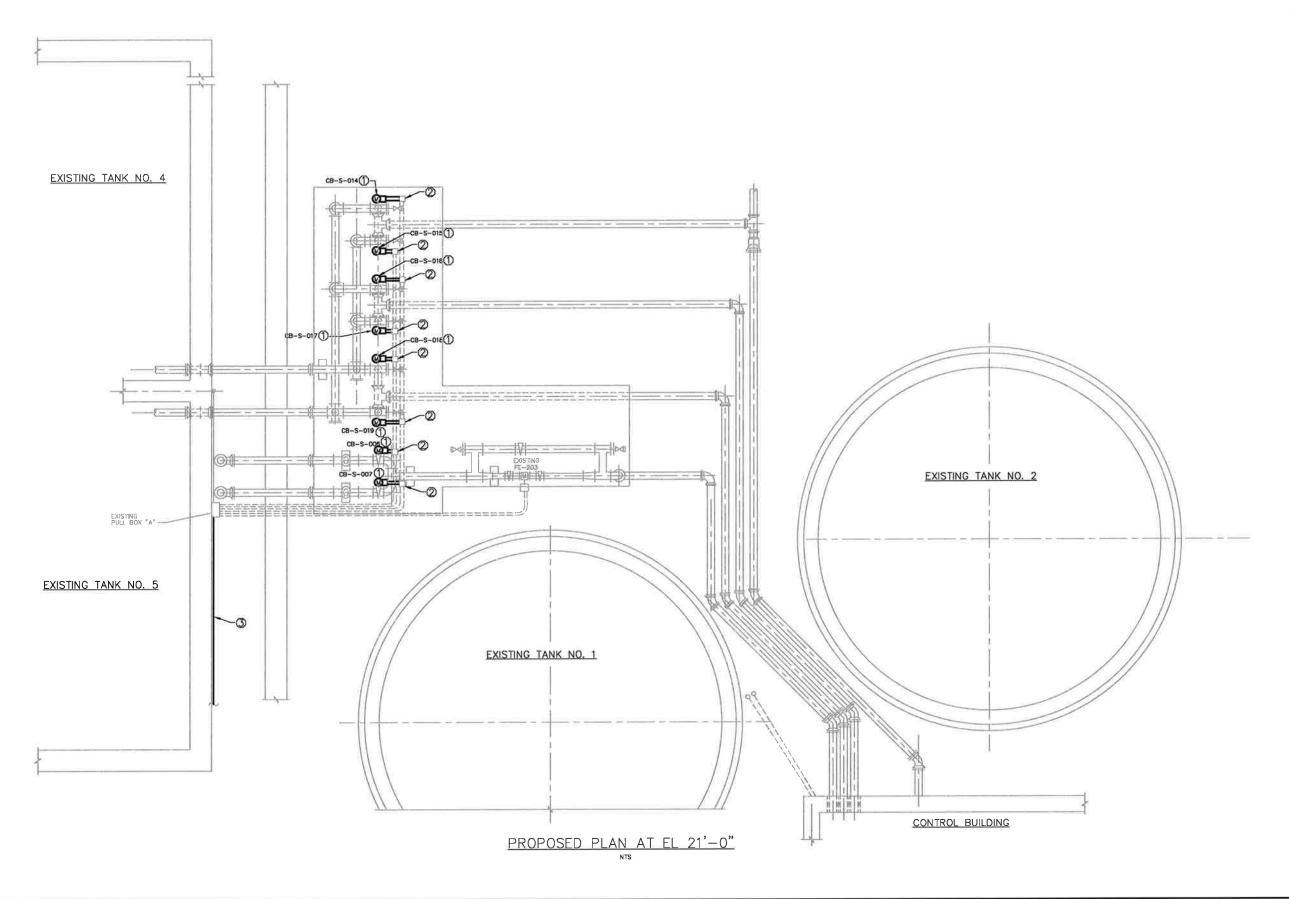
Tel 727-726-0005 Fax 727-726-0009 CA Lic, No: 9086

DATE REVISIONS DES: GG DRN: OL CKD: DH DATE: 5/13/14

CITY of TAMPA HOWARD F. CURREN

ADVANCED WASTEWATER TREATMENT PLANT

HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT SLUDGE CONTROL BUILDING CONTROL VALVES AND PIPING REPLACEMENT ELECTRICAL PROPOSED PLAN AT EL. 0'-3"



GENERAL NOTES:

NTS

- 1. EXISTING EQUIPMENT TO REMAIN (SHOWN AS LIGHT SHADED LINES). PROPOSED WORK IS SHOWN IN BOLD LINES.

 2. REFER TO SHEET 17 FOR ELECTRICAL LEGEND AND ABBREVIATIONS.

 3. REFER TO SHEET 27 FOR ELECTRICAL CONDUIT SCHEDULE AND FOR PANEL "LP" SCHEDULE.

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

 5. PROPOSED VALVE ACTUATORS AS SHOWN ARE DERIVED FROM RECORD DRAWNGS. REFER TO PLANS AND SECTIONS SHEETS 9 THROUGH 16 FOR LOCATIONS.

 6. REFER TO SHEET 28 FOR PROPOSED VALVE ACTUATOR SCHEMATICS.

KEYED NOTES:

- KEYELD NOTES:

 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 ENDUGH FIELD VERIFY TO MATCH EXISTING, SPLICE FROM NEAREST PULL BOX AND EXTEND TO PROPOSED VALVE ACTUATOR.

 2. EXISTING PULLBOX.

 3. EXISTING CONDUITS TO MCC—501A, MCC—501B, CBCP, AND RTU TO REMAIN.

No 76573 STATE OF

OR 1

ONAL

TRICAL ENGINEER

O.

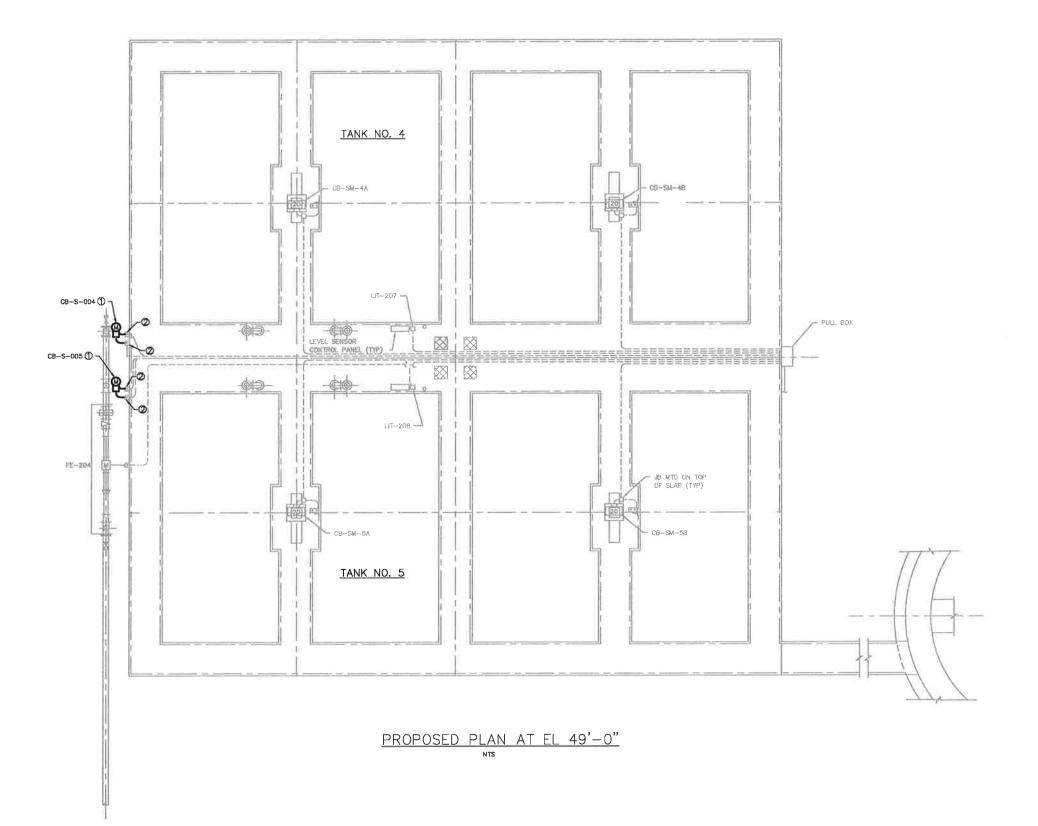
Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY

107 Hampton Road, Suite 190, Clearwater, FL 33759 Tel 727-726-0005 Fax 727-726-0009 CA Lic. No: 9086

REVISIONS DATE DES: GG DRN: OL CKD: DATE: 5/13/14

CITY of TAMPA

HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT SLUDGE CONTROL BUILDING CONTROL VALVES AND PIPING REPLACEMENT ELECTRICAL PROPOSED PLAN AT EL. 21'-0"





GENERAL NOTES:

- 1. EXISTING EQUIPMENT TO REMAIN (SHOWN AS LIGHT SHADED LINES). PROPOSED WORK IS SHOWN IN BOLD LINES.

 2. REFER TO SHEET 17 FOR ELECTRICAL LEGEND AND ABBREVIATIONS.

 3. REFER TO SHEET 27 FOR ELECTRICAL CONDUIT SCHEDULE AND FOR PANEL "LP" SCHEDULE.
- SCHEDULE.

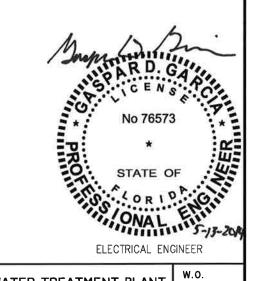
 4. REFER TO SHEET 24 FOR "MCC-501A", "STPCP", "RTU" AND "CBCP" LOCATIONS.

 5. PROPOSED VALVE ACTUATORS AS SHOWN ARE DERIVED FROM RECORD DRAWNGS. REFER TO PLANS AND SECTIONS SHEETS 9 THROUGH 16 FOR LOCATIONS.

 6. REFER TO SHEET 28 FOR PROPOSED VALVE ACTUATOR SCHEMATICS.

KEYED NOTES:

- . 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, SPILCE FROM NEAREST PULL BOX AND EXTEND TO PROPOSED VALVE ACTUATOR.
- 2. EXISTING PULLBOX.



Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY

PLANNING ENGINEERING PROGRAM MANAGEMENT 107 Hampton Road, Suile 190, Clearwaler, FL 33759 Tel 727-726-0005 Fax 727-726-0009 CA Lic. No: 9086

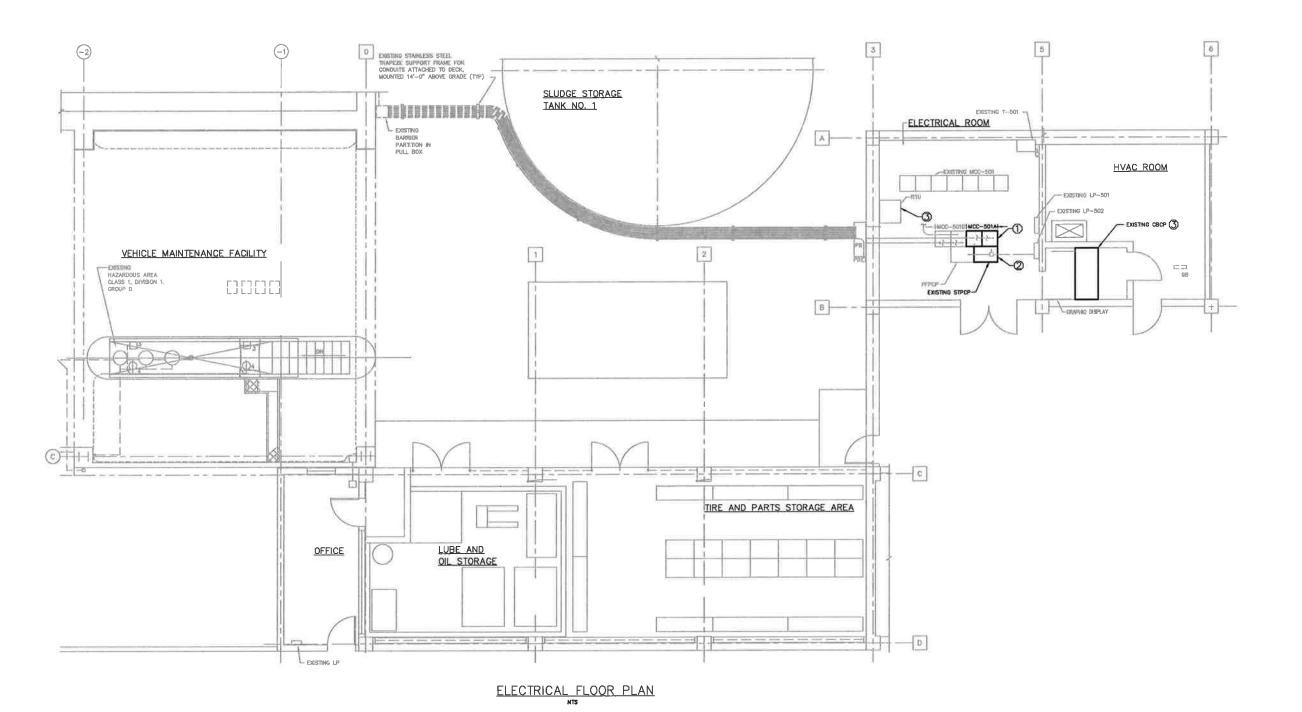
No.	DATE	REVISIONS	DES:	GG
3			DRN:	OL
2			CKD:	DH
ŀ			DATE:	5/13

CITY of TAMPA

HOWARD F. CURREN
ADVANCED WASTEWATER TREATMENT PLANT

HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT SLUDGE CONTROL BUILDING CONTROL VALVES AND PIPING REPLACEMENT ELECTRICAL PROPOSED PLAN AT EL. 49'-0"

W.O.



GENERAL NOTES:

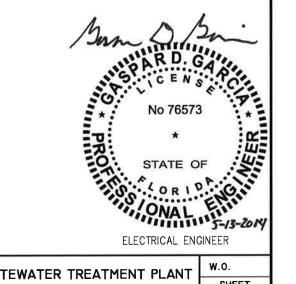
- 1. PROPOSED VALVE ACTUATORS AS SHOWN ARE DERIVED FROM RECORD DRAWINGS. REFER TO PLANS AND SECTIONS SHEETS 9 THROUGH 16 FOR LOCATIONS.
 2. EXISTING EQUIPMENT TO REMAIN (SHOWN AS LIGHT SHADED LINES) PROPOSED WORK IS SHOWN IN BOLD LINES.
 3. REFER TO SHEET 17 FOR ELECTRICAL LEGEND AND ABBREVIATIONS.

O KEYED NOTES:

- 1. PROVIDE CONDUIT AND CONDUCTORS FROM EXISTING MCC—501A TO PROPOSED VALVE ACTUATORS. REFER TO SHEET 25 FOR PROPOSED ONE—LINE DIAGRAM. REFER TO SHEET 21 FOR PROPOSED VALVE ACTUATOR LOCATIONS AND CONDUIT ROUTING.

 2. PROVIDE CONDUIT AND CONDUCTORS FROM EXISTING "STPCP" TO PROPOSED VALVE ACTUATOR. REFER TO SHEET 21 FOR PROPOSED VALVE ACTUATOR. REFER TO SHEET 21 FOR PROPOSED VALVE ACTUATOR. REFER TO SHEET 28 EXISTING "STPCP" SLUDGE TRANSFER PUMP CONTROL SCHEMATIC FOR PROPOSED WORK.

 3. PROVIDE CONTROL CONDUCTORS IN EXISTING CONDUIT FROM EXISTING "RTU" AND "CBCP" TO PROPOSED VALVE ACTUATOR. REFER TO SHEET 21 FOR PROPOSED VALVE ACTUATOR. REFER TO SHEET 21 FOR PROPOSED VALVE ACTUATOR LOCATIONS.



Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY PLANNING ENGINEERING PROGRAM MANAGEMENT 107 Hampton Road, Suite 190, Clearwater, FL 33759 Tel 727-726-0005 Fax 727-726-0009 CA Lic. No: 9086

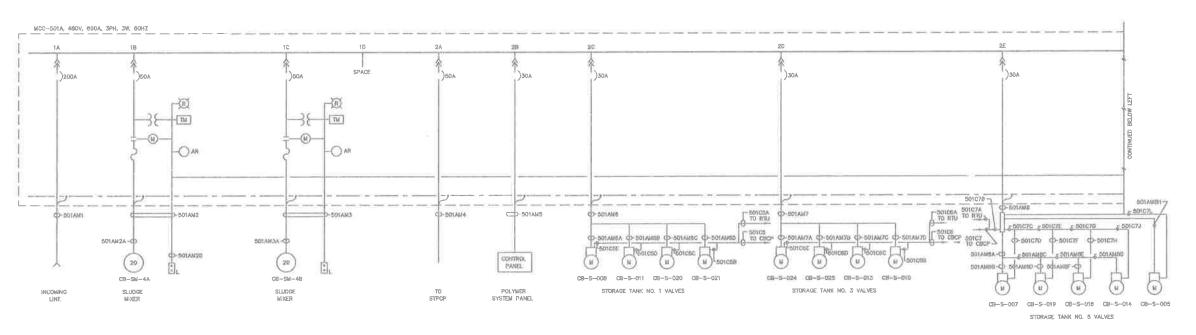
REVISIONS DATE DES: DRN: CKD: DATE: 5/13/14

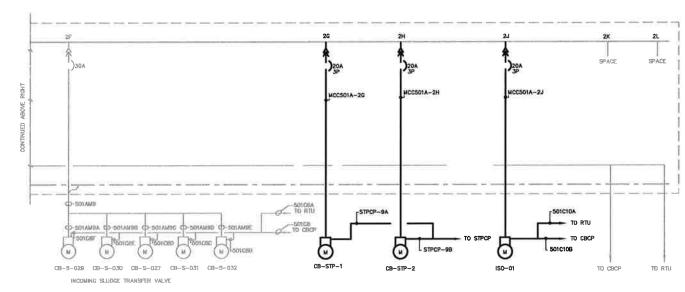
GG

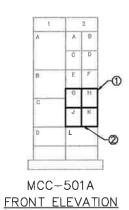
OL

CITY of TAMPA HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT

HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT SLUDGE CONTROL BUILDING CONTROL VALVES AND PIPING REPLACEMENT **ELECTRICAL PROPOSED PLAN**







GENERAL NOTES:

- SCINCIPAL INVIES:

 1. EXISTING EQUIPMENT TO REMAIN (SHOWN AS LIGHT SHADED LINES). PROPOSED WORK IS SHOWN IN BOLD LINES.

 2. REFER TO SHEET 17 FOR ELECTRICAL LEGEND AND ABBREVIATIONS.

 3. 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 NOTIFY ENGINEER AND OWNER OF ANY DISCREPANCIES FOUND.

 4. EXISTING CONDUIT TAGS DERIVED FROM RECORD DRAWINGS SHOWN FOR INFORMATION PURPOSES ONLY

 5. REFER TO SHEET 27 FOR ELECTRICAL CONDUIT SCHEDULE.

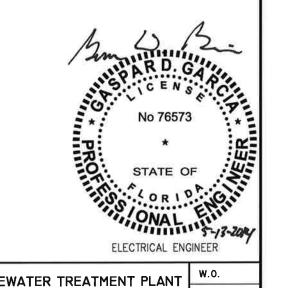
 6. REFER TO SHEET 24 FOR "MCC—501A",

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

O KEYED NOTES:

- 1. 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.

 2. 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.



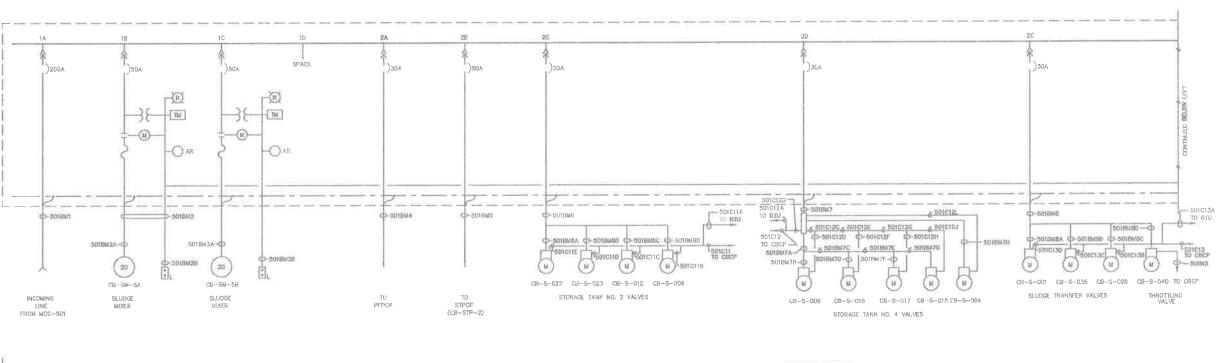
Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY 107 Hampion Road, Suite 190, Clearwater, FL 33759 Tel 727-726-0005 Fax 727-726-0009 CA Lic. No: 9086

REVISIONS DATE DES: GG DRN: OL CKD: DATE: 5/13/14

CITY of TAMPA

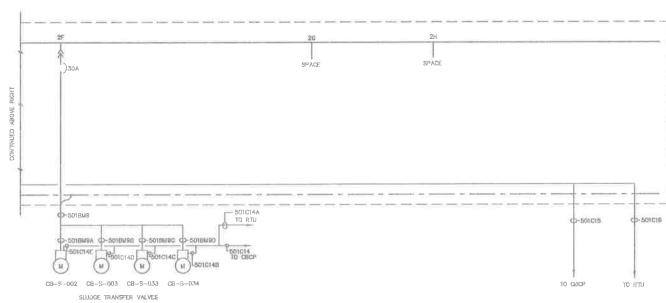
HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT

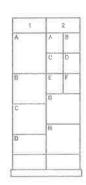
HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT SLUDGE CONTROL BUILDING CONTROL VALVES AND PIPING REPLACEMENT **ELECTRICAL ONE-LINE DIAGRAM FOR MCC-50IA**



GENERAL NOTES:

- 1. EXISTING MCC-501B ONE-LINE DIAGRAM IS SHOWN FOR INFORMATION PURPOSES. THERE IS NO PROPOSED WORK FOR THIS SHEET.
 2. EXISTING CONDUIT TAGS DERIVED FROM RECORD DRAWINGS SHOWN FOR INFORMATION PURPOSES ONLY.





MCC-501B FRONT ELEVATION

STATE OF

OR

OR

ONAL

TOTRICAL ENGINEER

W.O.

Lockwood, Andrews & Newnam, Inc. PLANNING ENGINEERING PROGRAM MANAGEMENT

107 Hampton Road, Suite 190, Clearwater, FL 33759 Tel 727-726-0005 Fax 727-726-0009 CA Lic. No: 9086

DATE REVISIONS DATE: 5/13/14

CITY of TAMPA

DES:

DRN:

CKD:

GG

OL

HOWARD F. CURREN
ADVANCED WASTEWATER TREATMENT PLANT

HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT SLUDGE CONTROL BUILDING CONTROL VALVES AND PIPING REPLACEMENT **ELECTRICAL ONE-LINE DIAGRAM FOR MCC-50IB**

		CONDU	TSCHEDULE		
CONDUIT TAG	TO	FROM	NOTES	CONDUCTORS	CONDUIT
MCC501A-2G	CB-STP-1 MOV	MCC-501A	PROPOSED	3#10 AWG, 1#10AWG GND	3/4"
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

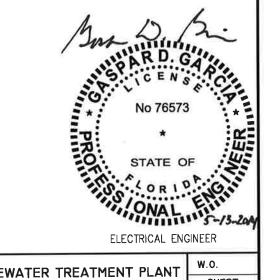
NOTE 2: UTILIZE EXISTING CONDUIT WHERE POSSIBLE AND PROVIDE CONTROL CONDUCTORS AS INDICATED.

Symbol S	EBC***			HOWN FOR INFORMATION CNLY		
SAME	501AM5	PULLBOX NEAR CB-S-008		WHITE THE PARTY OF	S#10 AWG, 1#10AWG GND	3.4"
CAMADO C	501AM6A	C8-S-308	CONTRACTOR OF THE PROPERTY OF THE PARTY OF T	the state of the s		
SAME						
STATES S	501AM5C				THE RESIDENCE OF THE PARTY OF T	
SCALING SE-STE	501AM6D	CB-S-021		120000000000000000000000000000000000000		
SAME SE-521	501AW7	PULLBOX NEAR C8-5-0024	MCC-501A	E-MOTH FO		
SEARCH PALLECK PALLECK SEARCH	501AM7A	C8-S-024	PULLEOX NEAR CE-S-024			
SAME				NAME OF TAXABLE PARTY O		
Symaps RELEDY W	501AM7C		PULLBOX NEAR CB-S-024			
SQUARD PALLECK X	501AM7D		PLALBOX NEAR CB-S-024	EXISTING	3#10 AWG, 1#10AWG GND.	34"
FALLECY REPORTS - 507 PLANSOY R. 1979		PULLBOX 'A"	MCC-501A	EXISTING	3#10 AWG, 1#10AWG GND.	3.4
SEASON PLLEONERAR G-5-007 SORTHO				EXISTING	3#10 AWG, 1#10AWG GND.	34
PALISON MERCES-5919 PALISON MERCES-5019 DISTRICO SPIC AND MINARO (MA) SPIC AND MI				EXISTING	3#10 AWG, 1#10AWG GND,	3,4
SAME PALEO REAGRESSON PALEON REAGRESSON SORTHO				EXISTING	3#10 AWG. 1#10AWG GND.	3/4"
SQUARES MARCES						
STANLES SERVICE PALLEDY KEAR (SERVICE SOUTH OF STANLES MY AND MANAGEMENT OF STANLES						
STATES S					The state of the s	
SQUARDER SQUARDER	501AMEF	CBS-018				
SOURCE PLATEON MARICE \$-29 DECOSON ESTITIO SPO AMS, INDIVIDUO 90. 34	501AMBG	CB-S-014				
SOURCE CLEAR CREAD CLEAR	501AM8H	CE-S-005	PULLBOX "A"	The American	and the second of the second o	
EXAMPS EXECUTE EXECUTED E	501AM9	PULLBOX NEAR CB-S-029	MCC-501A	EXISTING		
SQUARRED CRE-2007 PLULED NEAR CRE-2009 ESSTING SPO AME, RESIMPLY OF D. M. STAND SPO AME, RESIMPLY OF D. M. ST	501AM9A	CB-9-029	PULLEOX NEAR CB-S-029	EXISTING	3#10 AWG. 1#10AWG GND.	
EMANDE CR-201		CB-S-090	PULLBOX NEAR CB-S-029	EXISTING	3#10 AWG, 1#10AWG GND.	3.4
SEARCH SEARCH SALEDONERAR GES-209 ESTITIO SIGN ON, IMPORTED GE 34				EXISTING	3#10 AWG. 1#10AWG GND.	34
SEARCH S				THE RESERVE THE PARTY OF THE PA		34"
SPIRING RILLED NEAR GR-6-022 LOCADOR SUSTING S						34
SPENDED CREATED SPENDED STATISMO S				THE RESERVE TO THE PARTY OF THE		
PRIMER CRESTS						
Page						
PRINCED CREATION PALEDON MARK (CREATION CO.) 34"	501BM6B	CB-S-023		- I I I I I I I I I I I I I I I I I I I	The state of the s	
Description CRES-000	501BM6C	C8-5-012				
SOURISTAN PULLEON FAMOR DESCRIPTION SOURISTAN SUBTINION STANKING	501BM5D	CB-S-009	PULLBOX NEAR CB-S-022			
SCHEMAN PALLEDIX REARCE-5-009 PALLEDIX AT SURTHS SURTHS	501BM7	PULLBOX "A"	MCC-501B	EXISTING		
SPENSON STANSON STAN				EXISTING	3#10 AWG, 1#10AWG GND.	
SPIENTED PALLED NEARCE-9-078 PALLED NEARCE-9-079 EUSTING SPO AND, IMPANOS GRO. 34"						
COPIETTO CRESCOPE CRESCOPE CRESCOPE ESTATION SPO AVIA, IMPANOS GNC. 34"						34"
STREET				Harris Control of the		3.4
STREET SESTIF S						
PART						
STRING	44.41.71.					
STATING METALOR NEARCR-8-090 NOCCOSTS STATING METALOR NEARCR-8-091 STATING STATING METALOR NEARCR-8-091 STATING STATI						
Formation Paulicon Name Cell-Scott Existing Self-Stot Se						
SOURCE SOURCE PULLION REAR CR-5-001 SOUTHO STO AND, INDAMO SRO. 34"						
SPENDED PULLIFOY NEAR CES-5001 ESTITING INTO AND, INTO AND, INTO AND, SERVE STORE				EXISTING		
TOTAL THE CONTRACT CR-500 SUSTING STO TAKES, STORANG SIDE, 34"		NAME OF TAXABLE PARTY.				
10-9819 PILLEON RAPICE-5-002 MCC-5/18 EASTING STO AND, INFOAMO GRUE, 34"	501BM8C	CB-S-026	PULLBOX NEAR CB-S-001	EXISTING		
The content of the	501BM8D	CB-S-040	PULLBOX NEAR CB-S-001	EXISTING		
Design California Paul Donne (California California Californ	501BMB	PULLBOX NEAR CB-B-302	MCC-501B	EXISTING	3#10 AWG, 1#10AWG GND.	
SPENDED CSS-033	501BMSA	CB-S-002	FULLBOX NEAR C8-S-002	EXISTING	3#10 AWG, 1#10AWG GND.	34
1999 1999	501BM9B	CB-S-003	PULLBOX NEAR CB-S-002	EXISTING	3#10 AWG, 1#10AWG GND.	3.4"
				EXISTING	3#10 AWG, 1#10AWG GND.	34"
SPICE PILLED KEAR CE-9-021 SEP SMR, 1914 OND. Total STOCK PILLED KEAR CE-9-021 TOTAL STOCK SE-5-021 PILLED KEAR CE-9-021 SMR, 1914 OND. S				EXISTING	3#10 AW3, 1#10AWG GND.	3.4
507CA						7
DOUGNE CRE-SCO						
Colored Color Co						1-14
DOUGNO CB-S-018						
SOURCE CE-5-205				COLD CTOR COLT TURILDAY		
SOIGE PULISON NEARCS-5-00 PULISON NEARCS-5-00 PULISON NEARCS-5-00 PULISON NEARCS-5-00 PULISON NEARCS-5-00 PULISON NEARCS-5-00 ENSTING 11944, 1944 600						
SOIDEA PALLEON NEARCE-5-010 PTU		C8-S-008		CONDUCTOR CUNT. THRU DIT	TIMES INTO COLD	
Foliage Politics						
Force						
SOTOR CLIENCE PLLIEON NEAR CES-2010 EXISTING STIRLE, INTEGROL STIRLE		PULLBOX NEAR CB-5-010	RTU	EXISTING	12#14, 1#14 GND.	1-14
SOIDER CRS-024	50108A	PULLBOX NEAR CB-5-010	RTU	EXISTING EXISTING	12#14, 1#14 GND. 11#14, 1#14 GND.	1-1/4
SOLCE PULIBOX	50106A 50106B	PULLECK NEAR C8-5-010 C8-S-010	FULLBOX NEAR C8-S-010 PULLBOX NEAR C8-S-010	EXISTING EXISTING	12#14, 1#14 GND. 11#14, 1#14 GND. 11#14, 1#14 GND.	1-14" 1-14"
SOLICA PULIBOX PULIBOX PULIBOX EXISTING 15814, 1814 GND 3-14"	50108A 50108B 50108C	PULLBOX NEAR CB-5-010 CB-5-010 CB-5-013	FULLBOX NEAR C8-S-010 PULLBOX NEAR C8-S-010	EXISTING EXISTING EXISTING EXISTING	12#14, 1#14 GND 11#14, 1#14 GND 11#14, 1#14 GND 11#14, 1#14 GND	1-1A" 1-1A" 1-1A"
SOCION PULLEDIX FULLEDIX FULLEDIX EXSTING 1544, 1914 GND 2-102	50106A 50106B 50108C 50108D	PLALBOX NEAR C8-S-010 C8-S-010 C8-S-013 C8-S-025	RTU PULIBOX NEAR C8-S-010 PULIBOX NEAR C8-S-010 PULIBOX NEAR C8-S-010	EXISTING EXISTING EXISTING EXISTING	12#14, 1#14 GND 11#14, 1#14 GND 11#14, 1#14 GND 11#14, 1#14 GND 11#14, 1#14 GND	1-1A" 1-1A" 1-1A" 1-1A"
SOUTCH PILLEGY YA	50108A 50108B 501080 50108D 50108E	PILLECK NEAR CS-S-010 CS-S-010 CS-S-013 CS-S-025 CS-S-024	RTU FULLBOX NEAR C8-S-010 PULLBOX NEAR C8-S-010 FULLBOX NEAR C8-S-010 FULLBOX NEAR C8-S-010 FULLBOX NEAR C8-S-010	EXISTING EXISTING EXISTING EXISTING EXISTING	12#14, 1#14 GND 11#14, 1#14 GND 11#14, 1#14 GND 11#14, 1#14 GND 11#14, 1#14 GND	1-18" 1-18" 1-18" 1-18" 1-18"
SOUTCO PILLIBOX MARCES-5-007 PILLIBOX MARCES-5-007 EXSTINGS 1444, 1944 GND. 2-167	50106A 50106B 501060 50106D 50106E 50107	FILLBCK NEAR C8-5-010 C8-5-010 C8-5-025 C8-5-025 C8-5-024 PILLBCK	RTU FULISOX NEAR CS-S-010 FULISOX NEAR CS-S-010 FULISOX NEAR CS-S-010 FULISOX NEAR CS-S-010 CSCP	EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING	12#14, 1#14 GND. 51#14, 1#14 GND. 11#14, 1#14 GND. 11#14, 1#14 GND. 11#14, 1#14 GND. 40#14, 1#14 GND.	1-14" 1-14" 1-14" 1-14" 1-14" 2"
SOICTD CE-SUT PULLBOX NEAR CE-SUT EXISTING SISHIA, INHIGIND 1-14*	501.08A 501.08B 501.08C 501.08D 501.08E 501.07 501.07A	FULIBOX NEAR C8-5-010 C8-5-010 C8-5-013 C8-5-025 C8-5-025 C8-5-024 FULIBOX FULIBOX	RTU FULISOX NEAR CB-S-010 FULISOX NEAR CB-S-010 FULISOX NEAR CB-S-010 FULISOX NEAR CB-S-010 CBCP RTU	EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING	12814, 1814 GND 11814, 1814 GND 11814, 1814 GND 11814, 1814 GND 11814, 1814 GND 11814, 1814 GND 11814, 1814 GND	1-14" 1-14" 1-14" 1-14" 1-14" 2"
SOUCH PULLBOX NEAR CB-5-019 PULLBOX NEAR CB-5-019 EXISTING SISHIA, 1814 GND 1-14"	50108A 50108B 50108C 50108D 50108E 50107A 50107A	FULLBOX NEAR C8-5-010 C8-5-010 C8-5-013 C8-5-025 C8-5-024 FULLBOX FULLBOX FULLBOX FULLBOX FULLBOX A*	RTU FULISOX NEAR CB-S-010 FULISOX NEAR CB-S-010 FULISOX NEAR CB-S-010 FULISOX NEAR CB-S-010 CBCP RTU FULISOX FULISOX	EXISTING	12814, 1814 GND, 11814, 1814 GND, 11814, 1814 GND, 11814, 1814 GND, 11814, 1814 GND, 45814, 1814 GND, 15814, 1814 GND, 55814, 1814 GND,	1-14" 1-14" 1-14" 1-14" 1-14" 2" 1-14" 2-12"
SOICH CE-S-019	50106A 50108B 50108C 50108D 50108E 50107A 50107B 50107B	PULLBOX NEAR C8-8-070 C8-9-070 C8-9-073 C8-9-073 C8-9-075 C8-9-074 PULLBOX PULLBOX PULLBOX PULLBOX NEAR C8-8-007	RTU FULISOX NEAR CS-S-010 FULISOX NEAR CS-S-010 FULISOX NEAR CS-S-010 FULISOX NEAR CS-S-010 GSCP RTU FULISOX FULISOX FULISOX FULISOX FULISOX	EXISTING	12e14, 1914 GND. 11e14, 1914 GND. 11e14, 1914 GND. 11e14, 1914 GND. 11e14, 1914 GND. 40914, 1914 GND. 15e14, 1914 GND. 56914, 1914 GND. 44914, 1914 GND. 44914, 1914 GND.	1-187 1-187 1-187 1-187 1-187 2 1-187 2-127 2-127
SOUTH CB-5016 FULISOX NEAR CB-5016 EXSTING STINL, 1914 GND 5-107	50108A 50108B 50108C 50108D 50108E 50107 50107A 50107B 50107C 50107C 50107C	FULLBOX NEAR C8-8-0/0 C8-9-0/0 C8-9-0/0 C8-9-0/0 C8-9-0/0 C8-9-0/0 FULLBOX FULLBOX FULLBOX 'X' FULLBOX 'X' FULLBOX NEAR C8-8-0/7 C8-9-0/7	RTU FILLEDX NEAR CB-S-010 FILLEDX FILLEDX FILLEDX FILLEDX FILLEDX FILLEDX FILLEDX NEAR CB-S-007	EXISTING	12014, 1014 GND 11014, 1014 GND 11014, 1014 GND 11014, 1014 GND 11014, 1014 GND 11014, 1014 GND 11014, 1014 GND 55014, 1014 GND 55014, 1014 GND 11014, 1014 GND	1-14" 1-14" 1-14" 1-14" 1-14" 2 1-14" 2-12" 2-12" 1-14"
SOCION CB-S-016 FULIBOX NEAR CB-S-016 EXISTING 11814, 1814 GND. 1-14" 1-	50108A 50108B 50108C 50108D 50108E 50107A 50107A 50107B 50107C 50107C 50107C	FILLECK NEAR C8-S-010 C8-S-010 C8-S-010 C8-S-020 C8-S-020 FILLECK FILL	RTU FULIBOX NEAR CB-S-010 FULIBOX NEAR CB-S-010 FULIBOX NEAR CB-S-010 FULIBOX NEAR CB-S-010 CBCP RTU FULIBOX "A" FULIBOX "A" FULIBOX "A" FULIBOX NEAR CB-S-007 FULIBOX NEAR CB-S-007	EXISTING	12er4, 1994 GND. 11er4, 1994 GND. 12er4, 1994 GND.	1-14" 1-14" 1-14" 1-14" 1-14" 2" 1-14" 2-12" 2-12" 1-14" 2-12"
SOLICIA CB-S-004 PULIBOX NEAR CB-S-016 EXISTING 11814, 1814 GND. 1-147	50108A 50108B 50108C 50108D 50108E 50107A 50107B 50107B 50107B 50107C 50107C 50107E	FULIBOX NEAR C8-8-010 C8-5-010 C8-5-020 C8-5-024 FULIBOX FULIBOX FULIBOX FULIBOX FULIBOX FULIBOX FULIBOX FULIBOX NEAR C8-8-007 C8-8-007 FULIBOX NEAR C8-8-019 C8-8-019 C8-8-019	RTU FULISON NEAR CS-S-010 FULISON NEAR CS-S-010 FULISON NEAR CS-S-010 FULISON NEAR CS-S-010 GSCP RTU FULISON FULISON FULISON FULISON FULISON NEAR CS-S-007	EXISTING	12er4, 1er4-GND. 11er4, 1er4-GND. 11er4, 1er4-GND. 11er4, 1er4-GND. 11er4, 1er4-GND. 11er4, 1er4-GND. 11er4, 1er4-GND. 15er4, 1er4-GND. 15er4, 1er4-GND. 15er4, 1er4-GND. 15er4, 1er4-GND. 15er4, 1er4-GND. 11er4, 1er4-GND. 11er4, 1er4-GND. 11er4, 1er4-GND. 11er4, 1er4-GND. 11er4, 1er4-GND.	1-14" 1-14" 1-14" 1-14" 2 1-14" 2-12" 2-12" 1-14" 2-12" 1-14" 2-12" 1-14"
SOLICIA CB-5-005 PULLEDX A: EXISTING 11814, 1814 GND 1-147	50108A 50108B 50108C 50108D 50108E 50107A 50107B 50107B 50107B 50107C 50107E 50107F 50107F	FULLBOX NEAR CB-S-0/0 CB-S-0/0 CB-S-0/0 CB-S-0/2 CB-S-0/2 PULLBOX PULLBOX PULLBOX PULLBOX 'A' FULLBOX NEAR CB-S-0/7 CB-S-0/7 CB-S-0/7 PULLBOX NEAR CB-S-0/9 FULLBOX NEAR CB-S-0/9 FULLBOX NEAR CB-S-0/9 FULLBOX NEAR CB-S-0/9	RTU FULIBOX NEAR CB-S-010 FULIBOX NEAR CB-S-010 FULIBOX NEAR CB-S-010 FULIBOX NEAR CB-S-010 GBCP RTU FULIBOX TEAR FULIBOX TEAR FULIBOX NEAR CB-S-007	EXISTING	12014, 1014-GND 11014, 1014-GND	1-14 1-14 1-14 1-14 1-14 1-14 2-12 1-14 2-12 1-14 2-14 1-14 1
10103 PULIBOX NEAR CB-5-022 CBCP EXISTING 10414, 1914 GND. 21	50108A 50108B 50108C 50108C 50108E 50107 50107A 50107B 50107B 50107C 50107B 50107C 50107F 50107F 50107F	FILLECK NEAR C8-S-010 C8-S-010 C8-S-010 C8-S-025 C8-S-025 C8-S-024 FILLBOX FILLBOX FILLBOX FILLBOX FILLBOX FILLBOX NEAR C8-S-007 C8-S-007 FILLBOX NEAR C8-S-019 C8-S-019 FILLBOX NEAR C8-S-016 C8-S-016	RTU FILLEDX NEAR CB-S-010 FILLEDX NEAR CB-S-010 FILLEDX NEAR CB-S-010 FILLEDX NEAR CB-S-010 CBCP RTU FILLEDX FILLEDX TA FILLEDX TA FILLEDX NEAR CB-S-007 FILLEDX NEAR CB-S-007 FILLEDX NEAR CB-S-019	EXISTING EXIST	12814, 1814 GND. 11814, 1814 GND.	114 114 114 114 115 116 2 114 212 212 212 114 2 114 2
SOICEA	50108A 50108B 50108C 50108D 50108E 501072 50107A 50107B 50107B 50107E 50107E 50107F 50107F 50107F 50107F	FULIBOX NEAR C8-8-0/0 C8-6/00 C8-6/00 C8-5/02 C8-5/02 FULIBOX FAR C8-8-0/07 FULIBOX FAR C8-8-0/09 C8-8-0/06 C8-8-0/06 C8-8-0/06 C8-8-0/06 C8-8-0/06	RTU FULISON NEAR CB-S-010 FULISON NEAR CB-S-017 FULISON NEAR CB-S-017 FULISON NEAR CB-S-019 FULISON NEAR CB-S-0116	EXISTING EXIST	12er4, 1er4-GND. 11er4, 1er4-GND. 11er4, 1er4-GND. 11er4, 1er4-GND. 11er4, 1er4-GND. 11er4, 1er4-GND. 11er4, 1er4-GND. 15er4, 1er4-GND. 15er4, 1er4-GND. 15er4, 1er4-GND. 15er4, 1er4-GND. 15er4, 1er4-GND. 11er4, 1er4-GND.	1-14" 1-14" 1-14" 1-14" 1-14" 2" 1-14" 2-12" 2-12" 2-12" 1-14" 1-14" 1-14" 1-14" 1-14"
SOTICIS CS-5/012 PULLBOX NEAR CS-5/22 EXISTING 11814, 1814 GND 1-147	50108A 50108B 50108B 50108B 50108B 50107A 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B	FILLECK NEAR C8-S-010 C8-S-010 C8-S-010 C8-S-020 C8-S-020 C8-S-024 FILLBOX FILLBOX FILLBOX FILLBOX FILLBOX FILLBOX NEAR C8-S-007 C8-S-007 FILLBOX NEAR C8-S-016 C8-S-010 C8-S-014 C8-S-014 C8-S-010	RTU FULIBOX NEAR CB-S-010 FULIBOX NEAR CB-S-010 FULIBOX NEAR CB-S-010 FULIBOX NEAR CB-S-010 CBCP RTU FULIBOX NEAR CB-S-017 FULIBOX NEAR CB-S-017 FULIBOX NEAR CB-S-017 FULIBOX NEAR CB-S-017 FULIBOX NEAR CB-S-019 FULIBOX NEAR CB-S-010	EXISTING EXIST	1,2414, 1994 GND. 11414, 1994 GND. 12414, 1994 GND. 13414, 1994 GND.	118 118 118 118 118 118 118 118 118 118
SOCIO CB-S-203	\$0108A 50108B 50108D 50108D 50108E 50107E 50107A 50107B 50107B 50107B 50107F 50107B 50107B 50107B 50107B 50107B	FULLECK NEAR C8-S-010 C8-S-010 C8-S-010 C8-S-020 C8-S-024 FULLBOX FULLBOX FULLBOX FULLBOX FULLBOX FULLBOX NEAR C8-S-007 C8-S-007 FULLBOX NEAR C8-S-019 C8-S-019 FULLBOX NEAR C8-S-016 C8-S-014 C8-S-014 C8-S-014 C8-S-010 FULLBOX NEAR C8-S-022	RTU FILLEDX NEAR CB-S-010 FILLEDX NEAR CB-S-017 FILLEDX NEAR CB-S-017 FILLEDX NEAR CB-S-019 FILLEDX NEAR CB-S-019 FILLEDX NEAR CB-S-010	EXISTING EXIST	12414, 1914-GND. 11414, 1914-GND. 11414, 1914-GND. 11414, 1914-GND. 11414, 1914-GND. 11414, 1914-GND. 11414, 1914-GND. 12414, 1914-GND. 12414, 1914-GND. 12414, 1914-GND. 11414, 1914-GND.	514' 514' 514' 514' 514' 514' 514' 514'
SOURCES CBS-5007 PULLEON NEAR CBS-502 EXISTING 11 Init., 1814 GND, 1-14"	50108A 50108B 50108B 50108B 50108B 50107A 50107B 50107B 50107B 50107E 50107F 50107F 50107F 50107H 50107H 50107H 50107H 50107H 50107H 50107H 50107H	FULIBOX NEAR C8-8-0/0 C8-6/00 C8-6/00 C8-5/02 C8-5/02 FULIBOX NEAR C8-8-0/0 C8-9/07 FULIBOX NEAR C8-9-0/06 C8-9/09 FULIBOX NEAR C8-9-0/06 C8-9/09 FULIBOX NEAR C8-9-0/06 C8-9/09 FULIBOX NEAR C8-9-0/07	RTU FULISON NEAR CB-S-010 FULISON NEAR CB-S-010 FULISON NEAR CB-S-010 FULISON NEAR CB-S-010 GBCP FULISON NEAR CB-S-010 FULISON NEAR CB-S-017 FULISON NEAR CB-S-017 FULISON NEAR CB-S-017 FULISON NEAR CB-S-019 FULISON NEAR CB-S-016	EXISTING EXIST	12814, 1814-GND. 11814, 1814-GND. 11814, 1814-GND. 11814, 1814-GND. 11814, 1814-GND. 11814, 1814-GND. 15814, 1814-GND. 15814, 1814-GND. 15814, 1814-GND. 15814, 1814-GND. 11814, 1814-GND.	114" 114" 114" 114" 114" 114" 114" 114"
SOURCEST CB-5:009	50106A 50108E 50108E 50108E 50107A 50107A 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B	FILLEOK NEAR C8-S-010 C8-S-010 C8-S-010 C8-S-025 C8-S-025 FILLBOK FILLBOK FILLBOK FILLBOK FILLBOK NEAR C8-S-07 C8-S-019 FILLBOK NEAR C8-S-016 C8-S-014 C8-S-014 C8-S-012 FILLBOK NEAR C8-S-022 FILLBOK NEAR C8-S-022 FILLBOK NEAR C8-S-022	RTU FULIBOX NEAR CB-S-010 FULIBOX TA' FULIBOX TA' FULIBOX NEAR CB-S-017 FULIBOX NEAR CB-S-017 FULIBOX NEAR CB-S-016	EXISTING EXIST	12er4, 1er4-GND, 11er4, 1er4-GND, 12er4, 1er4-GND, 12er4, 1er4-GND, 12er4, 1er4-GND, 12er4, 1er4-GND, 11er4, 1er4-GND, 11er4-GND, 11er4-G	1147 1147 1147 1147 1147 1147 2147 1147 2147 1147 1
SOICER CB-S-209	50106A 50106B 50106B 50106B 50106B 50107A 50107A 50107A 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B	FULLBOX NEAR C8-S-010 C8-S-010 C8-S-010 C8-S-025 C8-S-025 C8-S-024 FULLBOX FULLBOX FULLBOX FULLBOX NEAR C8-S-007 C8-S-007 FULLBOX NEAR C8-S-019 C8-S-019 FULLBOX NEAR C8-S-016 C8-S-019 FULLBOX NEAR C8-S-010 C8	RTU FULISON NEAR CB-S-010	EXISTING EXIST	12814, 1914 GND. 11814, 1914 GND. 40914, 1914 GND. 12814, 1914 GND. 12814, 1914 GND. 12814, 1914 GND. 12814, 1914 GND. 11814, 1914 GND.	518 518 518 518 518 518 518 22 518 518 518 518 518 518 518 518 518 518
SOLICITA	50106A 501080 501080 501080 501080 501080 50107A 50107A 501070 501070 50107F 501078	FILLECK NEAR C8-S-010 C8-S-010 C8-S-010 C8-S-025 C8-S-025 C8-S-024 FILLBOX FILLBOX FILLBOX FILLBOX FILLBOX FILLBOX FILLBOX FILLBOX NEAR C8-S-007 C8-S-007 FILLBOX NEAR C8-S-016 C8-S-016 C8-S-016 C8-S-019 FILLBOX NEAR C8-S-022 FILLBOX NEAR C8-S-022 C8-S-032 C8-S-032 C8-S-032 C8-S-032	HTU FULIBOX NEAR CB-S-010 FULIBOX NEAR CB-S-010 FULIBOX NEAR CB-S-010 FULIBOX NEAR CB-S-010 CBCP RTU FULIBOX NEAR CB-S-017 FULIBOX NEAR CB-S-007 FULIBOX NEAR CB-S-007 FULIBOX NEAR CB-S-007 FULIBOX NEAR CB-S-010	EXISTING EXIST	12814, 1994 GND, 11814, 1994 GND, 12814, 1994 GND, 12814, 1994 GND, 12814, 1994 GND, 12814, 1994 GND, 13814, 1994 GND,	518' 518' 518' 518' 518' 518' 518' 518'
SOICH FULLBOX NEAR CR-8-009 CBCP EXISTING 32814, 1914 GND. 2** SOICH FULLBOX NEAR CR-8-009 RTU EXISTING 12914, 1914 GND. 5-14** SOICH CB-8-009 FULLBOX NEAR CR-8-009 EXISTING 11914, 1914 GND. 5-14** SOICH CB-8-009 FULLBOX NEAR CR-8-009 EXISTING 11914, 1914 GND. 5-14** SOICH CB-8-009 FULLBOX NEAR CR-8-009 EXISTING 11914, 1914 GND. 5-14** SOICH CB-8-002 FULLBOX NEAR CR-8-009 EXISTING 11914, 1914 GND. 5-14** SOICH FULLBOX CBCP EXISTING 11914, 1914 GND. 5-14** SOICH FULLBOX CBCP EXISTING 11914, 1914 GND. 5-14** SOICH FULLBOX CBCP EXISTING 11914, 1914 GND. 5-14** SOICH FULLBOX FULLBOX EXISTING 5-14** SOICH FULLBOX NEAR CR-8-008 FULLBOX EXISTING 5-14** SOICH FULLBOX NEAR CR-8-008 FULLBOX EXISTING 5-14** SOICH FULLBOX NEAR CR-8-008 FULLBOX NEAR CR-8-008 EXISTING 5-14** SOICH FULLBOX NEAR CR-8-08 FULLBOX NEAR CR-8-008 EXISTING 5-14** SOICH FULLBOX NEAR CR-8-08 FULLBOX NEAR CR-8-09 EXISTING 5-14** SOICH FULLBOX NEAR CR-8-08 FULLBOX NEAR CR-8-09 EXISTING 5-14** SOICH FULLBOX NEAR CR-8-09 FULLBOX NEAR CR-8-09 EXISTING 5-14** SOICH FULLBOX NEAR CR-8-09 FULLBOX NEAR CR-8-09 EXISTING 5-14** SOICH FULLBOX NEAR CR-8-09 FULLBOX NEAR CR-8-09 EXISTING 5-14** SOICH FULLBOX NEAR CR-8-09 FULLBOX NEAR CR-8-09 EXISTING 5-14** SOICH FULLBOX NEAR CR-8-09 FULLBOX NEAR CR-8-09 EXISTING 5-14** SOICH FULLBOX NEAR CR-8-09 FULLBOX NEAR CR-8-09 EXISTING 5-14** SOICH FULLBOX NEAR CR-8-09 FULLBOX NEAR CR-8-09 EXISTING 5-14** SOICH FULLBOX NEAR CR-8-008 FULLBOX NEAR CR-8-09 EXISTING 5-14** SOICH FULLBOX NEAR CR-8-008 FULLBOX NEAR CR-8-09 EXISTING 5-14** SOICH FULLBOX NEAR CR-8-008 FULLBOX NEAR CR-8-008 EXISTING 5-14** SOICH FULLBOX NEAR CR-8-008 FULLBOX NEAR CR-8-008 EXISTING 5-14** SOICH FULLBOX NEAR CR-8-008 FULLBOX NEAR CR-8-008 EXISTING 5-14** SOICH	50106A 50108B 50108B 50108B 50108B 50108B 50107A 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B	FILLECK NEAR C8-S-010 C8-S-010 C8-S-010 C8-S-025 C8-S-025 C8-S-024 FILLBOX FILLBOX FILLBOX FILLBOX FILLBOX FILLBOX FILLBOX FILLBOX NEAR C8-S-007 C8-S-007 FILLBOX NEAR C8-S-016 C8-S-016 C8-S-016 C8-S-019 FILLBOX NEAR C8-S-022 FILLBOX NEAR C8-S-022 C8-S-032 C8-S-032 C8-S-032 C8-S-032	RTU FULIBOX NEAR CB-S-010 FULIBOX NEAR CB-S-010 FULIBOX NEAR CB-S-010 FULIBOX NEAR CB-S-010 CBCP RTU FULIBOX TA FULIBOX NEAR CB-S-017 FULIBOX NEAR CB-S-019 FULIBOX NEAR CB-S-016 FULIBOX NEAR CB-S-016 FULIBOX TA CBCP RTU FULIBOX NEAR CB-S-017	EXISTING EXIST	12814, 1914 GND. 11814, 1914 GND.	518 518 518 518 518 518 518 518 518 518
FOLICITA	50106A 50106C 50106C 50106D 50100D 50100D 50100A 50100A 50100A 50100C 50100A 50	FILLECK NEAR C8-S-010 C8-S-010 C8-S-010 C8-S-025 C8-S-025 C8-S-024 FILLECK FIL	RTU FULIBOX NEAR CB-S-010 FULIBOX NEAR CB-S-010 FULIBOX NEAR CB-S-010 FULIBOX NEAR CB-S-010 CBCP RTU FULIBOX TA FULIBOX NEAR CB-S-017 FULIBOX NEAR CB-S-019 FULIBOX NEAR CB-S-016 FULIBOX NEAR CB-S-016 FULIBOX TA CBCP RTU FULIBOX NEAR CB-S-017	EXISTING EXIST	12814, 1914-GND. 11814, 1814-GND. 11814, 1814-GND. 11814, 1814-GND. 11814, 1814-GND. 11814, 1814-GND. 40914, 1814-GND. 15814, 1814-GND. 15814, 1814-GND. 15814, 1814-GND. 11814, 1814-GND.	518 518 518 518 518 518 22 518 242 518 518 518 518 518 518 518 518 518 518
DOI:10.10.10.10.10.10.10.10.10.10.10.10.10.1	50106A 50108D 50108D 50108D 50108D 50107A 50107A 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50108A 50108D 50108D 50108D 50108D	FULIBOX NEAR C8-S-010 C8-S-010 C8-S-010 C8-S-025 C8-S-025 C8-S-024 FULIBOX FULIBOX FULIBOX FULIBOX NEAR C8-S-007 C8-S-007 FULIBOX NEAR C8-S-016 C8-S-019 FULIBOX NEAR C8-S-016 C8-S-019 FULIBOX NEAR C8-S-016 C8-S-019 FULIBOX NEAR C8-S-016 C8-S-010	RTU FULISON NEAR CB-S-010	EXISTING EXIST	12814, 1994 GND. 11814, 1994 GND. 12814, 1994 GND. 12814, 1994 GND. 12814, 1994 GND. 12814, 1994 GND. 13814, 1994 GND.	518 518 518 518 518 2 518 2 212 212 212 518 2 518 518 518 518 518 518 518 518 518 518
FOLICITIC CB-S-072 PULISOX NEAR CB-S-009 EXISTING 11814, 1814 GND 1-147	50106A 50106C 50106C 50106D 50107C 50107A 50107A 50107A 50107A 50107A 50107A 50107A 50107A 50107A 50107A 50107A 50107A 50108A 50	FILLECK NEAR C8-S-010 C8-S-010 C8-S-010 C8-S-020 C8-S-024 FILLECK FILL	RTU FULISON NEAR CB-S-010	EXISTING EXIST	12814, 1914 GND. 11814, 1914 GND. 40914, 1914 GND. 40914, 1914 GND. 12814, 1914 GND. 12814, 1914 GND. 13814, 1914 GND.	518' 518' 518' 518' 518' 518' 518' 518'
OCCUPATION PULLED X NEAR CB-S-009 EXISTING STATE AND STA	50106A 50106C 50106C 50106D 50106D 50107A 50107A 50107A 50107C 50107D 50107C 50107D 50	FILLECK NEAR C8-S-010 C8-S-010 C8-S-010 C8-S-025 C8-S-025 C8-S-024 FILLBOX FILLBOX FILLBOX FILLBOX FILLBOX NEAR C8-S-007 C8-S-007 FILLBOX NEAR C8-S-019 C8-S-019 FILLBOX NEAR C8-S-016 C8-S-019 FILLBOX NEAR C8-S-016 C8-S-014 C8-S-014 C8-S-015 C8-S-016 C8-S-017 C8-S-017 C8-S-018 C8-S-018 C8-S-019 FILLBOX NEAR C8-S-002 C8-S-001 C8-S-001 C8-S-001 C8-S-007 C8-S-007 C8-S-009 FILLBOX NEAR C8-S-009	RTU FULIBOX NEAR CB-S-010	EXISTING EXIST	12814, 1914 GND. 11814, 1914 GND. 40914, 1914 GND. 40914, 1914 GND. 12814, 1914 GND. 12814, 1914 GND. 13814, 1914 GND.	518 518 518 518 518 518 518 518 518 518
DICTIE CB-S-022 PILLEDX NEAR CB-S-039 EXISTING LIFE4, 1814 GND, 1-14"	50106A 50108D 50108D 50108D 50108D 50108D 50107A 50107A 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50108A 50	FULIBOX NEAR C8-S-010 C8-S-010 C8-S-010 C8-S-025 C8-S-025 C8-S-024 FULIBOX FULIBOX FULIBOX FULIBOX NEAR C8-S-007 C8-S-007 FULIBOX NEAR C8-S-019 C8-S-019 FULIBOX NEAR C8-S-016 C8-S-019 FULIBOX NEAR C8-S-016 C8-S-019 FULIBOX NEAR C8-S-016 C8-S-010	RTU FULISON NEAR CB-S-010 GBCP RTU FULISON NEAR CB-S-010 FULISON NEAR CB-S-017 FULISON NEAR CB-S-017 FULISON NEAR CB-S-019 FULISON NEAR CB-S-016 FULISON NEAR CB-S-017	EXISTING EXIST	12814, 1914-GND. 11814, 1814-GND. 11814, 1814-GND. 11814, 1814-GND. 11814, 1814-GND. 11814, 1814-GND. 40914, 1814-GND. 40914, 1814-GND. 15814, 1814-GND. 15814, 1814-GND. 11814, 1814-GND.	5187 5187 5187 5187 5187 5187 5187 5187
SOLICIZE FULLBOX CBCP EXISTING ADMIT, 1914 GND. 2"	50106A 50106C 50106C 50106D 50107A 50107A 50107A 50107A 50107A 50107A 50107A 50107A 50107A 50107A 50107A 50107A 50107A 50108A 50	FILLECK NEAR C8-S-010 C8-S-010 C8-S-010 C8-S-025 C8-S-025 C8-S-025 FILLECK FILLECK FILLECK FILLECK NEAR C8-S-07 C8-S-019 FILLECK NEAR C8-S-016 C8-S-017 C8-S-017 C8-S-018 C8-S-019 C8-S	RTU FULISION NEAR CB-S-010	EXISTING	12814, 1991-GND, 11814, 1991-GND, 11814, 1991-GND, 11814, 1991-GND, 11814, 1991-GND, 11814, 1991-GND, 11814, 1991-GND, 12814, 1991-GND, 12814, 1991-GND, 12814, 1991-GND, 12814, 1991-GND, 13814, 1991-GND, 13814, 1991-GND, 13914,	5187 5187 5187 5187 5187 5187 5187 5187
SOICIZA	50106A 50108D 50108D 50108D 50108D 50107D 50107A 50107A 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50108 50	FULLECK NEAR C8-S-010 C8-S-010 C8-S-010 C8-S-025 C8-S-025 C8-S-025 FULLBOX FULLBOX FULLBOX FULLBOX FULLBOX FULLBOX FULLBOX NEAR C8-S-007 C8-S-007 FULLBOX NEAR C8-S-016 C8-S-019 FULLBOX NEAR C8-S-016 C8-S-014 C8-S-014 C8-S-015 FULLBOX NEAR C8-S-022 C8-S-022 C8-S-020	RTU FULISON NEAR CB-S-010	EXISTING	12814, 1914 GND. 11814, 1914 GND. 40914, 1914 GND. 40914, 1914 GND. 40914, 1914 GND. 11814, 1914 GND.	518' 518' 518' 518' 518' 518' 518' 518'
SOICUZE	50106A 50106B 50108D 50108D 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50108B 5010B 501	FILLECK NEAR C8-S-010 C8-S-010 C8-S-010 C8-S-010 C8-S-025 C8-S-025 C8-S-024 FILLECK FI	RTU FULIBOX NEAR CB-S-00 FULIBOX NEAR CB-S-010 FULIBOX NEAR CB-S-017 FULIBOX NEAR CB-S-017 FULIBOX NEAR CB-S-017 FULIBOX NEAR CB-S-016 FULIBOX NEAR CB-S-016 FULIBOX NEAR CB-S-016 FULIBOX NEAR CB-S-016 FULIBOX NEAR CB-S-017 FULIBOX NEAR CB-S-00 FULIBOX NEAR CB-S-009	EXISTING	12814, 1991-6 (ND. 11814, 1991-6 (ND. 12814, 1991-6 (ND. 12814, 1991-6 (ND. 12814, 1991-6 (ND. 12814, 1991-6 (ND. 13814, 1991-6	5187 5187 5187 5187 5187 5187 5187 5187
DOC120 PLLIBOX NEAR CS-5-006 PLLIBOX A: DISTING 44814, 1814 GND. 2-10** SOC120 CS-5-006 PLLIBOX NEAR CS-5-006 EXSTING 11814, 1814 GND. 1-14** SOC121 CS-5-006 PLLIBOX NEAR CS-5-006 EXSTING 31814, 1814 GND. 1-14** SOC122 CS-5-018 PLLIBOX NEAR CS-5-018 EXISTING 11814, 1814 GND. 1-14** SOC123 PLLIBOX NEAR CS-5-07 PLLIBOX NEAR CS-5018 EXISTING 22814, 1814 GND. 1-14** SOC124 CS-5-017 PLLIBOX NEAR CS-5-018 EXISTING 22814, 1814 GND. 1-14** SOC122 CS-5-016 PLLIBOX NEAR CS-5-017 EXISTING 11814, 1814 GND. 1-14** SOC122 CS-5-016 PLLIBOX NEAR CS-5-017 EXISTING 11814, 1814 GND. 1-14** SOC122 CS-5-004 PLLIBOX NEAR CS-5-018 EXISTING 11814, 1814 GND. 1-14** SOC123 PLLIBOX NEAR CS-5-028 PLLIBOX NEAR CS-5018 EXISTING 11814, 1814 GND. 1-14** SOC124 CS-5-005 PLLIBOX NEAR CS-5028 EXISTING 11814, 1814 GND. 1-14** SOC135 CS-5-005 PLLIBOX NEAR CS-5028 EXISTING 11814, 1814 GND. 1-14** SOC130 CS-5-005 PLLIBOX NEAR CS-5028 EXISTING 11814, 1814 GND. 1-14** SOC144 PLLIBOX NEAR CS-5-034 CSCP EXISTING 11814, 1814 GND. 1-14** SOC144 PLLIBOX NEAR CS-5-034 PLLIBOX NEAR CS-5028 EXISTING 11814, 1814 GND. 1-14** SOC144 PLLIBOX NEAR CS-5-034 PLLIBOX NEAR CS-5038 EXISTING 11814, 1814 GND. 1-14** SOC144 PLLIBOX NEAR CS-5-034 PLLIBOX NEAR CS-5038 EXISTING 11814, 1814 GND. 1-14** SOC144 PLLIBOX NEAR CS-5-034 PLLIBOX NEAR CS-5034 EXISTING 11814, 1814 GND. 1-14** SOC144 PLLIBOX NEAR CS-5-034 PLLIBOX NEAR CS-5034 EXISTING 11814, 1814 GND. 1-14** SOC144 PLLIBOX NEAR CS-5-034 PLLIBOX NEAR CS-5034 EXISTING 11814, 1814 GND. 1-14** SOC144 PLLIBOX NEAR CS-5-034 PLLIBOX NEAR CS-5034 EXISTING 11814, 1814 GND. 1-14** SOC144 CS-5-003 PLLIBOX NEAR CS-5034 EXISTING 11814, 1814 GND. 1-14** SOC144 CS-5-003 PLLIBOX NEAR CS-5034 EXISTING 11814, 1814 GND. 1-14** SOC144 PLLIBOX NEAR CS-5034 PLLIBO	50106A 50106C 50106C 50106C 50106C 50107A 50107A 50107C 50	FILLECK NEAR C8-S-010 C8-S-010 C8-S-010 C8-S-020 C8-S-025 C8-S-024 FILLECK FIL	RTU FULISION NEAR CB-S-010	EXISTING	12814, 1914 GND. 11814, 1914 GND.	5187 5187 5187 5187 5187 5187 5187 5187
SOCIO2D CB-5-006 PULIBOX NEAR CB-5-008 EXISTING SIRIFIA SIRIFIA	50106A 50108D 50108D 50108D 50108D 50108D 50107A 50107A 50107B 50107B 50107B 50107B 50107B 50107B 50108D 50	FULLECK NEAR C8-S-010 C8-S-010 C8-S-010 C8-S-010 C8-S-020 C8-S-020 C8-S-024 FULLBOK FULLBOK FULLBOK FULLBOK FULLBOK NEAR C8-S-007 C8-S-007 FULLBOK NEAR C8-S-016 C8-S-019 FULLBOK NEAR C8-S-016 C8-S-019 FULLBOK NEAR C8-S-016 C8-S-019 FULLBOK NEAR C8-S-016 C8-S-019 FULLBOK NEAR C8-S-016 C8-S-010 C8-S-0	RTU FULISON NEAR CB-S-010	EXISTING	12814, 1814 GND. 11814, 1814 GND. 12814, 1814 GND. 12814, 1814 GND. 12814, 1814 GND. 12814, 1814 GND. 11814, 1814 GND.	518 518 518 518 518 518 52 518 518 518 518 518 518 518 518 518 518
SOUCH PULIBOX NEAR CB-S-018 PULIBOX NEAR CB-S-008 EXISTING Said, 1814 GND, 27	50106A 50106B 50106B 50106B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50107B 50108B 50108B 50108B 50108B 50108B 50108B 50108B 50108B 50108B 50108B 50101B 50101B 50101B 50101B 50101B 50101B	FILLECK NEAR C8-S-010 C8-S-010 C8-S-010 C8-S-010 C8-S-020 C8-S-020 FILLECK FILLECK FILLECK FILLECK FILLECK FILLECK NEAR C8-S-007 C8-S-010 C8-S-010 C8-S-010 C8-S-010 FILLECK NEAR C8-S-016 C8-S-016 C8-S-010 C8-S-	RTU FULISOX NEAR CB-S-00 FULISOX NEAR CB-S-010 FULISOX NEAR CB-S-000 FULISOX NEAR CB-S-000 FULISOX NEAR CB-S-000 FULISOX NEAR CB-S-000 RU FULISOX NEAR CB-S-000	EXISTING	12614, 1991-6 (ND. 11614, 1991-6	518 518 518 518 518 518 518 518 518 518
SOCI25 C8-5-018 FULIBOX NEAR C8-5-018 EXSTING 11914, 1914 GND 1-14"	50106A 50106C 50106C 50106C 50106C 50107A 50107A 50107C 50107A 50107C 50	FILLECK NEAR C8-S-010 C8-S-010 C8-S-010 C8-S-025 C8-S-025 C8-S-025 FILLECK FIL	RTU FULIBOX NEAR CB-S-010 FULIBOX NEAR CB-S-009	EXISTING	12814, 1914 GND. 11814, 1914 GND.	518 518 518 518 518 518 518 518 518 518
DICI2G	50106A 50106B 50108C 50108D 50107 50107A 50107A 50107A 50107E	FILLEOK NEAR C8-S-010 C8-S-010 C8-S-010 C8-S-010 C8-S-010 C8-S-020 C8-S-024 FILLEOK FILLEOK FILLEOK FILLEOK FILLEOK FILLEOK FILLEOK FILLEOK C8-S-010 C8-S-01	RTU FULIBOX NEAR CB-S-010 FULIBOX NEAR CB-S-02 FULIBOX NEAR CB-S-02 FULIBOX NEAR CB-S-02 FULIBOX NEAR CB-S-00 FULIBOX NEAR CB-S-009 FULIBOX NEAR CB-S-000	EXISTING	12814, 1994 GND. 11814, 1994 GND. 12814, 1994 GND. 13814, 1994 GND.	5187 5187 5187 5187 5187 5187 5187 5187
SOCIO24 CB-S-017	50106A 50106B 50106B 50106B 50107B	FILLECK NEAR C8-S-010 C8-S-010 C8-S-010 C8-S-010 C8-S-025 C8-S-025 FILLECK FIL	RTU FULISON NEAR CB-S-010	EXISTING	12614, 1914 GND. 11614, 1914 GND. 12614, 1914 GND. 12614, 1914 GND. 12614, 1914 GND. 13614, 1914 GND.	518 518 518 518 518 518 518 518 518 518
	50106A 50106B 50106B 50106B 50106B 50106B 50107 50107A 50107A 50107C 501	FILLECK NEAR C8-5-010 C8-5-010 C8-5-010 C8-5-010 C8-5-025 C8-5-025 C8-5-024 FILLECK FI	RTU FULISION NEAR CB-S-010	EXISTING	12814, 1914 GND. 11814, 1914 GND.	518 518 518 518 518 518 518 518 518 518
S01C12_J CB-5-015	50106A 50106B 50106B 50106B 50106B 50106B 50107 50107A 50107A 50107C 501	FILLECK NEAR C8-S-010 C8-S-010 C8-S-010 C8-S-010 C8-S-010 C8-S-010 C8-S-020 C8-S-024 FULLECK F	RTU FULBOX NEAR CB-S-00 FULBOX NEAR CB-S-00 FULBOX NEAR CB-S-00 FULBOX NEAR CB-S-00 CBCP RTU FULBOX NEAR CB-S-00	EXISTING	12814, 1991-6 (ND. 11814, 1991-6 (ND. 12814, 1991-6 (ND. 11814, 1991-6 (ND.	518 518 518 518 518 518 518 518 518 518
501C12 CB-9-004	50105A 50105C 50105C 50105C 50105C 50107C 50107A 50	FILLECK NEAR C8-S-010 C8-S-010 C8-S-010 C8-S-010 C8-S-010 C8-S-010 C8-S-020 C8-S-024 FULLECK F	RTU FULBOX NEAR CB-S-00 FULBOX NEAR CB-S-00 FULBOX NEAR CB-S-00 FULBOX NEAR CB-S-00 CBCP RTU FULBOX NEAR CB-S-00	EXISTING	12814, 1914 GND. 11814, 1914 GND.	5187 5187 5187 5187 5187 5187 522 5187 524 5187 51
STICTS	50106A 50106E 50106E 50106E 50106E 50107A 50107A 50107A 50107A 50107E	FILLECK NEAR C8-8-010 C8-9-013 C8-9-025 C8-9-025 C8-9-024 FILLBOX FILLBOX FILLBOX FILLBOX NEAR C8-8-007 C8-8-009 FILLBOX NEAR C8-8-016 C8-9-019 FILLBOX NEAR C8-8-016 C8-9-019 FILLBOX NEAR C8-8-016 C8-9-014 C8-9-014 C8-9-014 C8-9-014 C8-9-014 C8-9-014 C8-9-014 C8-9-015 FILLBOX NEAR C8-8-022 C8-8-020 C8-9-020 FILLBOX NEAR C8-8-009 FILLBOX NEAR C8-8-008 FILLBOX NEAR C8-8-008 C8-9-009 FILLBOX NEAR C8-8-009	RTU FULISION NEAR CB-S-010	EXISTING	12814, 1994 GND. 11814, 1994 GND. 12814, 1994 GND. 13814, 1994 GND.	518 518 518 518 52 518 52 518 518 518 518 518 518 518 518
201013A PULLBOX NEAR CS-5/028 RTU EXISTING Se14, 1914 GND. 17	50106A 50106B 50106B 50107 501	FILLECK NEAR C8-S-010 C8-S-010 C8-S-010 C8-S-010 C8-S-010 C8-S-020 C8-S-024 FILLECK FI	RTU FULISON NEAR CB-S-010 FULISON NEAR CB-S-000	EXISTING	12814, 1994 GND. 11814, 1994 GND. 12814, 1994 GND. 13814, 1994 GND.	5187 5187 5187 5187 5187 5187 5187 5187
1910 18 CE-S-028	50106A 50106B 50106B 50107B	FILLECK NEAR C8-S-010 C8-S-010 C8-S-010 C8-S-010 C8-S-010 C8-S-010 C8-S-025 C8-S-025 FILLECK F	RTU FULBOX NEAR CB-S-00 FULBOX NEAR CB-S-010 FULBOX NEAR CB-S-000	EXISTING	12814, 1914 GND. 11814, 1914 GND. 12814, 1914 GND. 12814, 1914 GND. 12814, 1914 GND. 13814, 1914 GND.	5187 5187 5187 5187 5187 5187 5187 5187
SOUCH CB-S-035 PILLEON NEAR CB-S-028 EXISTING THRIL, 1814 GND. 1-147	50106A 50106E 50106E 50106E 50106E 50107A 50107A 50107C 50107A 50107C 50	FILLECK NEAR C8-S-010 C8-S-010 C8-S-010 C8-S-010 C8-S-025 C8-S-025 C8-S-024 FILLECK FI	RTU FULISON NEAR CB-S-010 FULISON NEAR CB-S-011	EXISTING	12814, 1914 GND. 11814, 1914 GND.	5187 5187 5187 5187 5187 5187 5187 5187
2010130 CB-S-001 PULLBOX NEAR CB-S-028 EXISTING 11814, 1814 GND 1-147	50106A 50106B 50106B 50106B 50106B 50106B 50107B 50108B 50	FILLECK NEAR C8-S-010 C8-S-010 C8-S-010 C8-S-010 C8-S-010 C8-S-010 C8-S-020 C8-S-024 FILLECK F	RTU FULBOX NEAR CB-S-00 FULBOX NEAR CB-S-00 FULBOX NEAR CB-S-00 FULBOX NEAR CB-S-00 CBCP RTU FULBOX NEAR CB-S-00	EXISTING	12814, 1994 GND. 11814, 1994 GND. 12814, 1994 GND.	5187 5187 5187 5187 5187 5187 5187 522 522 5232 5232 5232 52322 52322 52
	50106A 50106B 50106B 50106B 50107B 50	FILLECK NEAR C8-S-010 C8-S-010 C8-S-010 C8-S-010 C8-S-025 C8-S-025 C8-S-024 FILLECK FILLECK FILLECK FILLECK NEAR C8-S-07 C8-S-019 FILLECK NEAR C8-S-016 C8-S-019 FILLECK NEAR C8-S-016 C8-S-019 FILLECK NEAR C8-S-016 C8-S-014 C8-S-014 C8-S-014 C8-S-014 C8-S-014 C8-S-016 C8-S-016 C8-S-016 C8-S-016 C8-S-016 C8-S-016 C8-S-016 C8-S-016 C8-S-017 C8-S-017 C8-S-018 FILLECK NEAR C8-S-009 FILLECK NEAR C8-S-006 C8-S-016 FILLECK NEAR C8-S-017 C8-S-017 C8-S-016 C8-S-016 C8-S-016 FILLECK NEAR C8-S-028	RTU FULISION NEAR CB-S-010 FULISION NEAR CB-S-011 FULISION NEAR CB-S-011 FULISION NEAR CB-S-017	EXISTING	12814, 1914 GND. 11814, 1914 GND. 12814, 1914 GND. 12814, 1914 GND. 12814, 1914 GND. 11814, 1914 GND.	5187 5187 5187 5187 5187 5187 5187 5187
201014A PULIBOX NEAR CB-S-034 RTU EXISTING 12814, 1914 GND. 1-147 501014B CB-S-034 PULIBOX NEAR CB-S-034 EXISTING 11814, 1914 GND. 1-147 501014C CB-S-033 PULIBOX NEAR CB-S-034 EXISTING 11814, 1914 GND. 1-147 501014D CB-S-033 PULIBOX NEAR CB-S-034 EXISTING 11814, 1914 GND. 1-147 501014D CB-S-033 PULIBOX NEAR CB-S-034 EXISTING 11814, 1914 GND. 1-147 501014D CB-S-035 EXISTING 11814, 1914 GND. 1-147 501014D CB-S-035 EXISTING 11814, 1914 GND. 1-147 501014D CB-S-035 EXISTING 1-147 501014D CB-S-035 EXISTING 1-147 501014D 501014	50106A 50106C 50106C 50106C 50106C 50107A 50107A 50107A 50107A 50107C 50107A 50107C 50	FILLECK NEAR C8-S-010 C8-S-010 C8-S-010 C8-S-010 C8-S-025 C8-S-025 C8-S-024 FILLECK FI	HTU FULISOX NEAR CB-S-010 FULISOX NEAR CB-S-017 FULISOX NEAR CB-S-017 FULISOX NEAR CB-S-017 FULISOX NEAR CB-S-016 FULISOX NEAR CB-S-017 FULISOX NEAR CB-S-02 FULISOX NEAR CB-S-02 FULISOX NEAR CB-S-02 FULISOX NEAR CB-S-02 FULISOX NEAR CB-S-030 FULISOX NEAR CB-S-031 FULISOX NEAR CB-S-032 FULISOX NEAR CB-S-031 FULISOX NEAR CB-S-031 FULISOX NEAR CB-S-032	EXISTING	12814, 1914 GND. 11814, 1914 GND.	5187 5187 5187 5187 5187 5187 5187 5187
SOICHB CB-S-034 PULIBOX NEAR CB-S-034 EXISTING 11814, 1814 GND. 1-14"	50105A 50105B 50105B 50105B 50107B 50108B	FILLECK NEAR C8-S-010 FULLECK FULLECK FULLECK FULLECK NEAR C8-S-007 C8-S-010	RTU FULBOX NEAR CB-S-00 FULBOX NEAR CB-S-010 FULBOX NEAR CB-S-000	EXISTING	12814, 1991 GND. 11814, 1991 GND. 12814, 1991 GND. 13814, 1991 GND. 13914, 1991 GND.	5187 5187 5187 5187 5187 5187 5187 5187
	50106A 50106C 50106C 50106C 50107A 50107A 50107A 50107C 50107G 50	FILLECK NEAR C8-8-010 C8-9-013 C8-9-025 C8-9-025 C8-9-025 C8-9-024 FILLECK FIL	RTU FULISION NEAR CB-S-010	EXISTING	12814, 1914 GND. 11814, 1914 GND.	5187 5187 5187 5187 5187 5187 527 5187 5282 5212 53187
501C14D C8-8-003 PULIBOK NEAR C8-9-034 EXISTING 11914, 1914 GND. 1-141	50106A 50106B 501076 501076 501077 50107A 50107A 50107B 50	FILLEGY NEAR C8-S-070 C8-S-070 C8-S-070 C8-S-070 C8-S-070 C8-S-070 C8-S-070 FULBOY FUL	RTU FULBOX NEAR CB-S-010	EXISTING	12614, 1994 GND. 11614, 1994 GND. 12614, 1994 GND.	5187 5187 5187 5187 5187 5187 5187 5187
300.00	50106A 50106B 501076 501076 501077 50107A 50107B 50	FILLEGY NEAR C8-S-070 C8-S-070 C8-S-070 C8-S-070 C8-S-070 C8-S-070 C8-S-070 FULBOY FUL	RTU FULISION NEAR CB-S-010 FULISION NEAR CB-S-020 FULISION NEAR CB-S-034	EXISTING	12614, 1914 GND. 11614, 1914 GND. 12614, 1914 GND. 12614, 1914 GND. 12614, 1914 GND. 13614, 1914 GND.	5187 5187 5187 5187 5187 5187 5187 5187
501C14E C8-S-002 PULLBOX NEAR C8-S-034 EXISTING 11#14, 1#14 GND. 1-14*	50106A 50106C 50106C 50106C 50107A 50107A 50107A 50107C 50	FILLECK NEAR C8-5-010 FILLECK FILLECK FILLECK FILLECK NEAR C8-5-017 C8-5-010 FILLECK NEAR C8-5-019 C8-5-019 FILLECK NEAR C8-5-016 C8-5-010 FILLECK NEAR C8-5-016 C8-5-010 FILLECK NEAR C8-5-017 C8-5-010 FILLECK NEAR C8-5-009 FILLECK NEAR C8-5-009 FILLECK NEAR C8-5-009 FILLECK NEAR C8-5-009 FILLECK NEAR C8-5-006 C8-5-010 FILLECK NEAR C8-5-018 C8-5-010 FILLECK NEAR C8-5-017 C8-5-017 C8-5-017 C8-5-017 C8-5-016 C8-5-017	RTU FULISON NEAR CB-S-010 FULISON NEAR CB-S-017 FULISON NEAR CB-S-017 FULISON NEAR CB-S-016 FULISON NEAR CB-S-017 FULISON NEAR CB-S-017 FULISON NEAR CB-S-017 FULISON NEAR CB-S-019 FULISON NEAR CB-S-018 FULISON NEAR CB-S-018 FULISON NEAR CB-S-017 FULISON NEAR CB-S-018 FULISON NEAR CB-S-019	EXISTING	12814, 1914 GND. 11814, 1914 GND.	5187 5187 5187 5187 5187 5187 5187 5187
	50106A 50106C 50106C 50106C 50107A 50107A 50107A 50107C 50107B 50107B 50107B 50107B 50107B 50107B 50108 5010	FILLECK NEAR C8-5-010 FILLECK FILLECK FILLECK FILLECK NEAR C8-5-017 C8-5-010 FILLECK NEAR C8-5-019 C8-5-019 FILLECK NEAR C8-5-016 C8-5-010 FILLECK NEAR C8-5-016 C8-5-010 FILLECK NEAR C8-5-017 C8-5-010 FILLECK NEAR C8-5-009 FILLECK NEAR C8-5-009 FILLECK NEAR C8-5-009 FILLECK NEAR C8-5-009 FILLECK NEAR C8-5-006 C8-5-010 FILLECK NEAR C8-5-018 C8-5-010 FILLECK NEAR C8-5-017 C8-5-017 C8-5-017 C8-5-017 C8-5-016 C8-5-017	RTU FULISON NEAR CB-S-010 FULISON NEAR CB-S-017 FULISON NEAR CB-S-017 FULISON NEAR CB-S-016 FULISON NEAR CB-S-017 FULISON NEAR CB-S-017 FULISON NEAR CB-S-017 FULISON NEAR CB-S-019 FULISON NEAR CB-S-018 FULISON NEAR CB-S-018 FULISON NEAR CB-S-017 FULISON NEAR CB-S-018 FULISON NEAR CB-S-019	EXISTING	12814, 1991-6 (ND. 11814, 1991-6 (ND. 12814, 1991-6 (ND. 12914, 1991-6 (ND.	5187 5187 5187 5187 5187 5187 5187 5187

EXISTING CONDUIT TAGS SHOWN FOR INFORMATION CNLY

GENERAL	NOTES:	

EXISTING CONDUIT TAGS SHOWN IN CONDUIT SCHEDULE IS FOR INFORMATION PURPOSES ONLY.



Lockwood, Andrews & Newmam, Inc.
A LID A DALY COMPANY
PEANNING ENGINEERING PROGRAMMANAGEMENT 107 Hampton Road, Suite 190, Clearwater, FL 33759 Tel 727-726-0005 Fax 727-726-0009 CA Lic. No: 9086

REVISIONS DATE DES: DRN: CKD:

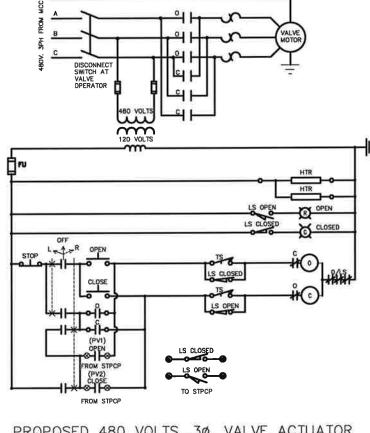
GG OL DH DATE: 5/13/14 CITY of TAMPA

HOWARD F. CURREN
ADVANCED WASTEWATER TREATMENT PLANT

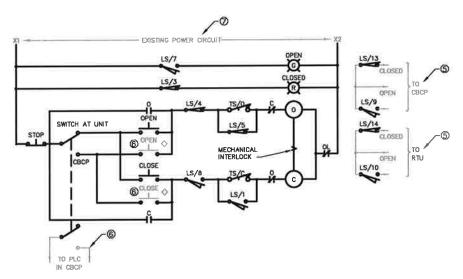
SLUDGE CONTROL BUILDING CONTROL VALVES AND PIPING REPLACEMENT ELECTRICAL SCHEDULES

SHEET

HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT



PROPOSED 480 VOLTS, 30, VALVE ACTUATOR



PROPOSED SLUDGE VALVE ACTUATOR

4 INCOMING SLUDGE 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-025
SLUDGE TRANSFER VALVES CB-S-027 TO CB-S-035

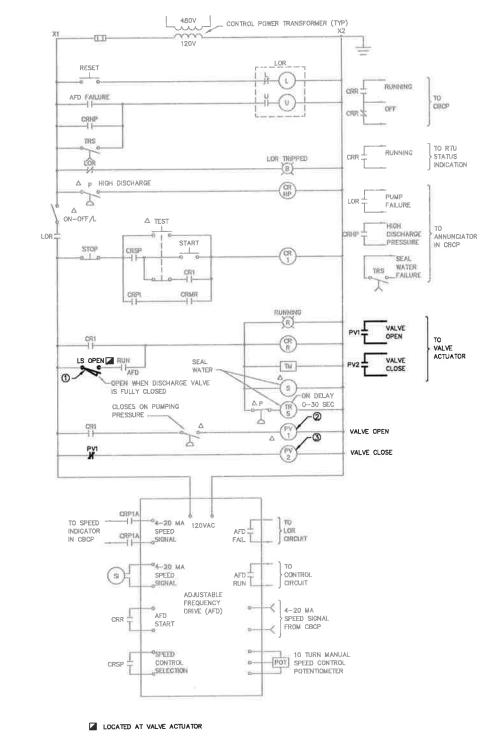
			MITCH CONT			
ROTOR	CONTACT	OR MOTORIZED VALVE ACTUAT OPERATOR POSITION				
NO.		FULL OPEN	INTER- MEDIATE	FULL	CONTACT FUNCTION	
	1				BYPASS CKT	
1	2	_	-		AUXILIARY	
	3	_	=		INDICATOR LIGHT	
	4		=		FORWARD (OPEN) LIMIT	
	5		=		BYPASS CKT	
	6		-		AUXILIARY	
2	7	_	-		INDICATOR LIGHT	
	8		_		REVERSE (CLOSED) LIMIT	
	9	_	=		AUXILIARY	
	10	_	-		AUXILIARY	
3	11		-	_	AUXILIARY	
	12				AUXILIARY	
	13				AUXILIARY	
	14				AUXILIARY	
4	15		-		AUXILIARY	
	16				AUXILIARY	

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

DENOTES DEVICE LOCATED IN CBCP



EXISTING SLUDGE TRANSFER PUMP CB-STP-1 TYPICAL FOR CB-STP-2

GENERAL NOTES:

1. EXISTING EQUIPMENT TO REMAIN (SHOWN

 EXISTING EQUIPMENT TO REMAIN (SHOWN AS LIGHT SHADED LINES). PROPOSED WORK IS SHOWN IN BOLD LINES.
 FIELD VERIFY EXISTING CONTROL PANELS, CONTROL SCHEMATICS, CONTROL DEVICES, AND CONTROL SEQUENCES. MODIFY AS NECESSARY TO ENSURE OPERATION OF PROPOSED VALVE ACTUATORS. COORDINATE ANY MODIFICATIONS WITH THE

KEYED NOTES:

EXTEND AND TERMINATE CONTROL CONDUCTORS FROM PROPOSED VALVE ACTUATOR LIMIT SWITCH TO "STPCP". REFER TO PROPOSED 480 VOLT, 30, VALVE ACTUATOR SCHEMATIC ON THIS SHEET.
COORDINATE AND VERIFY CONTROL
SEQUENCE OF OPERATION WITH THE CITY.
2. REPURPOSE EXISTING CONTROL RELAY FOR

REPURPOSE EXISTING CONTROL RELAY FOR PROPOSED VALVE ACTUATOR OPEN COMMAND. REFER TO PROPOSED 480 VOLT, 3¢, VALVE ACTUATOR SCHEMATIC ON THIS SHEET. EXTEND AND TERMINATE CONTROL CONDUCTORS FROM PROPOSED VALVE ACTUATOR TO "STPCP". COORDINATE AND VERIFY VALVE CONTROL SEQUENCE OF OPERATION WITH THE CITY. REPURPOSE EXISTING CONTROL RELAY FOR PROPOSED VALVE ACTUATOR CLOSE COMMAND. REFER TO PROPOSED 480 VOLT, 3¢, VALVE ACTUATOR SCHEMATIC ON THIS SHEET. EXTEND AND TERMINATE CONTROL CONDUCTORS FROM PROPOSED VALVE

CONDUCTORS FROM PROPOSED VALVE
ACTUATOR TO "STPCP". COORDINATE AND
VERIFY VALVE CONTROL SEQUENCE OF

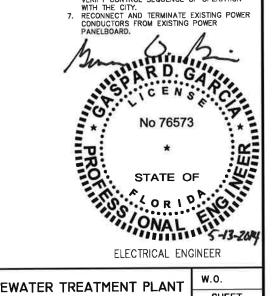
VERIFY VALVE CONINCU SEQUENCE OF OPERATION WITH THE CITY.

4. PROPOSED SLUDGE VALVE ACTUATOR SCHEMATIC DERIVED FROM RECORD DRAWINGS. PRIOR TO CONSTRUCTION FIELD VERIFY EXISTING POWER CIRCUIT, LIMIT SWITCHES, AND CONTROL DEVICES.

5. RECONNECT AND TERMINATE EXISTING CONTROL CONTROL OF LIMIT SWITCHES.

CONTROL CONDUCTORS TO LIMIT SWITCHES FROM "CBCP" AND "RTU". COORDINATE AND VERIFY CONTROL SEQUENCE OF OPERATION WITH THE CITY.
RECONNECT AND TERMINATE EXISTING

REMOTE START/STOP CONTROL CONDUCTORS
FROM EXISTING "CBCP". COORDINATE AND
VERIFY CONTROL SEQUENCE OF OPERATION



Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY 107 Hampton Road, Suite 190, Clearwater, Fl. 33759 Tel 727-726-0005 Fax 727-726-0009 CA Lic. No: 9086

No.	DATE	REVISIONS	DES:	GG
3			DRN:	OL
2			CKD:	DH
ï			DATE:	5/13/14
-				

CITY of TAMPA

HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT

HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT SLUDGE CONTROL BUILDING CONTROL VALVES AND PIPING REPLACEMENT **ELECTRICAL SCHEMATIC DIAGRAMS**