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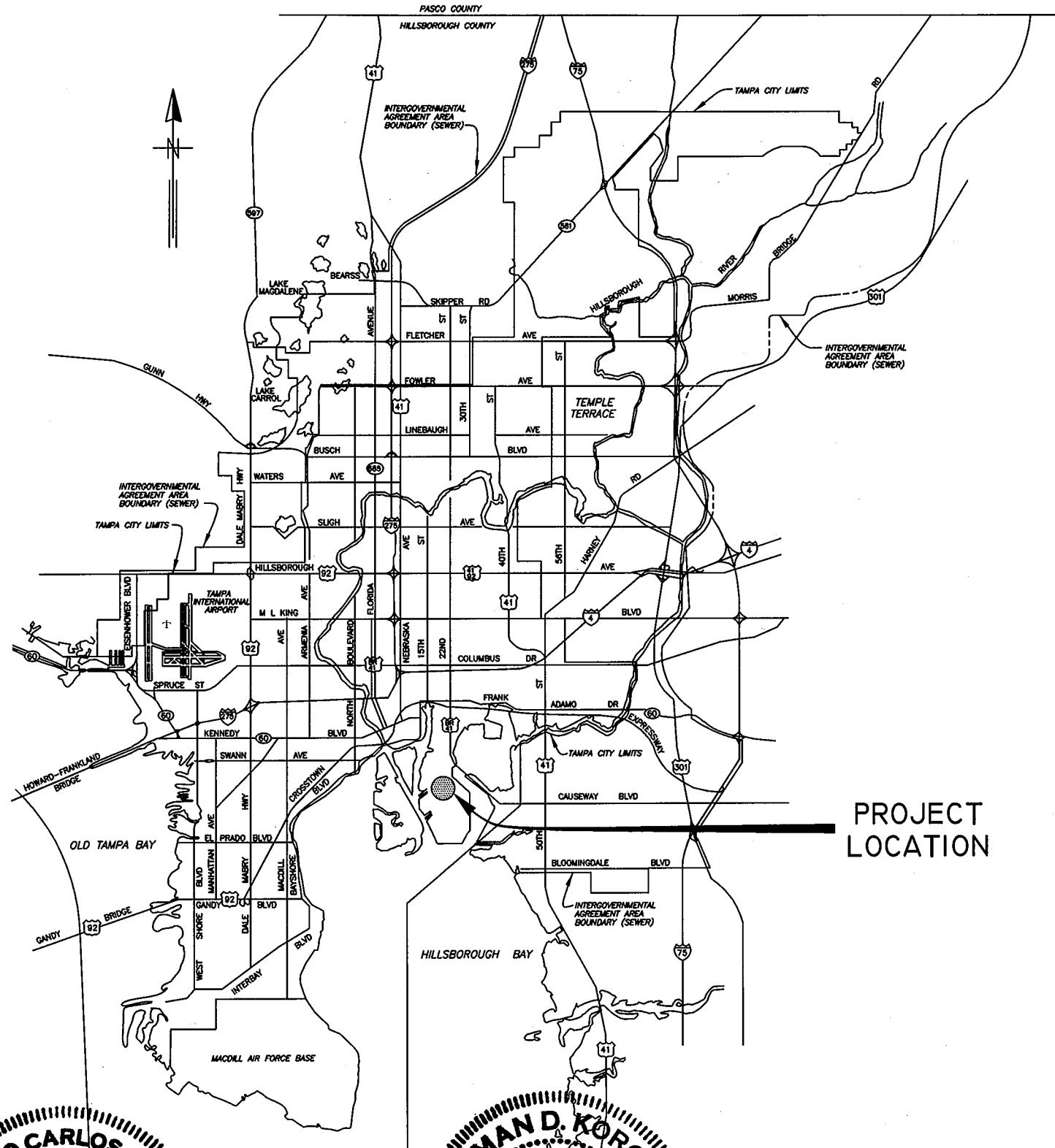
Please Email ALL Questions:

[MailTo:ContractAdministration@TampaGov.net](mailto:ContractAdministration@TampaGov.net)

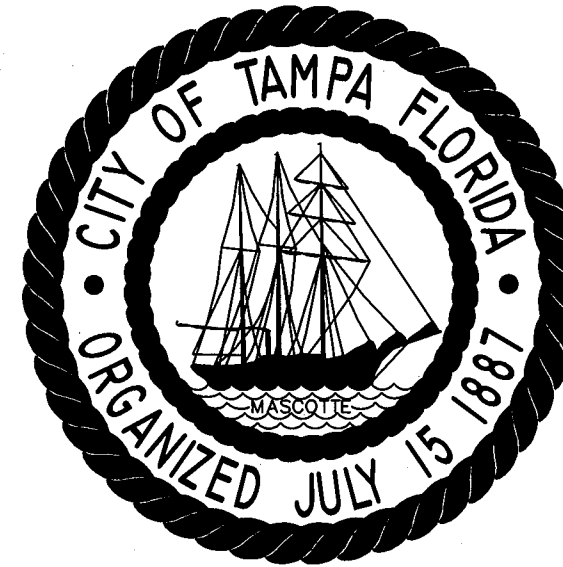
Please Let Us Know If You Plan To Bid

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

LOCATION MAP



CITY of TAMPA

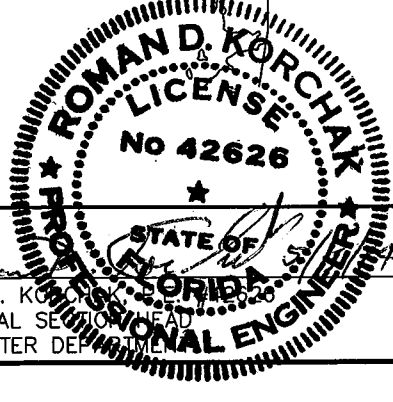


WASTEWATER DEPARTMENT

PLANS FOR

DENITRIFICATION BUILDING EFFLUENT WATER STRAINERS REPLACEMENT

CONTRACT No.
14-C-00040



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No.	DATE	REVISIONS
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DES: MS
DRN: MRL
CKD:
DATE:

CITY of TAMPA
WASTEWATER DEPARTMENT

DENITRIFICATION BUILDING EFFLUENT
WATER STRAINERS REPLACEMENT
COVER

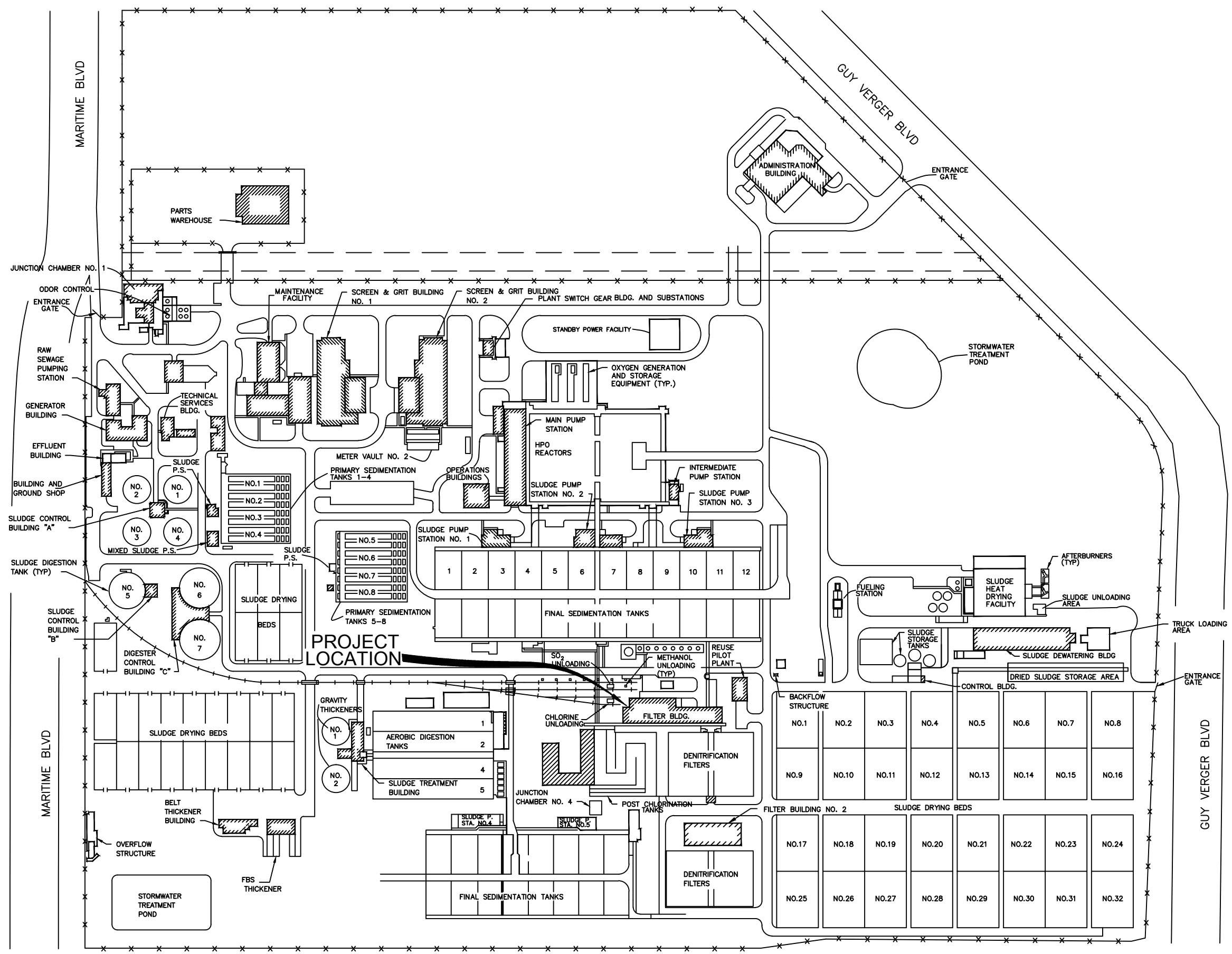
W.O. 5989
SHEET
1
OF 7

COT ATLAS J-13/K-13
SEC 30 T29S R19E
SEC 31 T29S R19E



CITY OF TAMPA
HOWARD F. CURREN
ADVANCED WASTEWATER
TREATMENT PLANT

2700 MARITIME BLVD.
TAMPA, FL 33605
(813) 247-3451
FAX: (813) 248-5269



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

No.	DATE	REVISIONS
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CITY of TAMPA
WASTEWATER DEPARTMENT

DENITRIFICATION BUILDING EFFLUENT WATER STRAINERS REPLACEMENT

LOCATION MAP

W.O. 5989
SHEET
2
OF 7

GENERAL NOTES

1. CONTRACTOR SHALL ONLY PERFORM CONSTRUCTION ON ONE EFFLUENT STRAINER AT A TIME. PRIOR TO COMMENCING WORK ON THE SECOND STRAINER, THE FIRST STRAINER MUST BE COMPLETED, INSPECTED, AND PLACED INTO SERVICE. THE CONTRACTOR MUST ENSURE THAT AT LEAST ONE STRAINER REMAINS OPERABLE AT ALL TIMES.
2. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL FIELD MEASUREMENTS AND VERIFYING THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ALL EXISTING PIPING, STRUCTURES, AND OTHER FEATURES AFFECTING HIS WORK PRIOR TO SUBMITTAL OF SHOP DRAWINGS OR STARTING CONSTRUCTION.
3. EXISTING PIPE, FITTINGS AND EQUIPMENT INDICATED FOR REMOVAL SHALL BE REMOVED AND STORED AS DIRECTED BY TREATMENT PLANT PERSONNEL.
4. ALL PIPE AND FITTINGS SHALL BE WELDED STEEL AND SHALL BE LINED AND COATED IN ACCORDANCE WITH THE SPECIFICATIONS.
5. ALL METAL SURFACES THAT COME IN CONTACT WITH CONCRETE SHALL RECEIVE 2-COATS OF COAL TAR EPOXY APPLIED TO THE METAL SURFACE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
6. AREAS OF THE CONCRETE FLOOR DISTURBED FROM THE REMOVAL OF THE EXISTING PIPE SUPPORTS AND STRAINER PEDESTALS SHALL BE REFINISHED TO PROVIDE A SMOOTH CONCRETE SURFACE.
7. EXISTING DIMENSIONS AND ELEVATIONS ARE BASED ON THE BEST INFORMATION AVAILABLE. TRUE DIMENSIONS AND ELEVATIONS SHALL BE DETERMINED IN THE FIELD, BY THE CONTRACTOR, PRIOR TO LAYOUT AND SHOP DRAWING SUBMITTALS.
8. SHOP DRAWINGS SHALL BE SUBMITTED AND APPROVED BY THE CITY FOR ALL PROPOSED ITEMS. ALL SUBMITTALS AND SHOP DRAWINGS SHALL BE ORIGINALS OR HIGH QUALITY COPIES (EASILY READABLE). NO FAXED SHEETS OR POOR QUALITY COPIES WILL BE ACCEPTED FOR SUBMITTAL REVIEW.
9. CONTRACTOR IS RESPONSIBLE FOR MEETING ALL FEDERAL, STATE AND LOCAL GOVERNMENT REGULATIONS IN REGARDS TO WORKING IN CONFINED SPACES.
10. UNLESS OTHERWISE INDICATED, CHEMICAL ANCHORS SHALL BE HILTI HIT-HY 150 MAX ANCHORING SYSTEM WITH TYPE 316 STAINLESS STEEL THREADED RODS, OR EQUAL.

11. OSHA STANDARD SAFETY EQUIPMENT SUCH AS SAFETY HARNESSSES, GAS MONITORS, LOWER EXPLOSION LIMIT (LEL) DETECTORS, BREATHING APPARATUS, ETC. SHALL BE UTILIZED WHERE THE WORK DICTATES THEIR USE.
12. ALL HARDWARE SHALL BE 316 STAINLESS STEEL.
13. CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH CONTRACT ADMINISTRATION PERSONNEL AND TREATMENT PLANT OPERATORS.

DEMOLITION NOTES

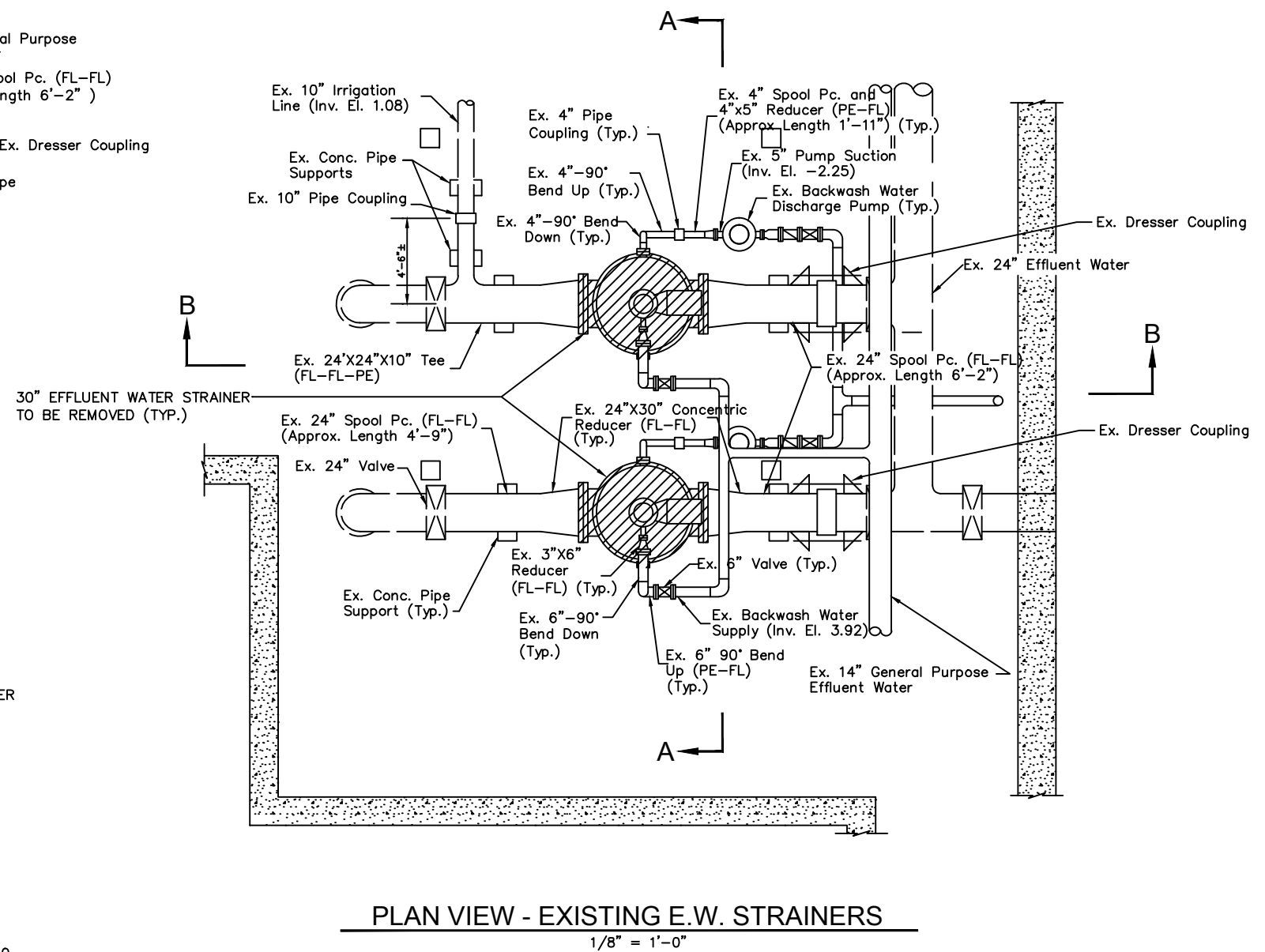
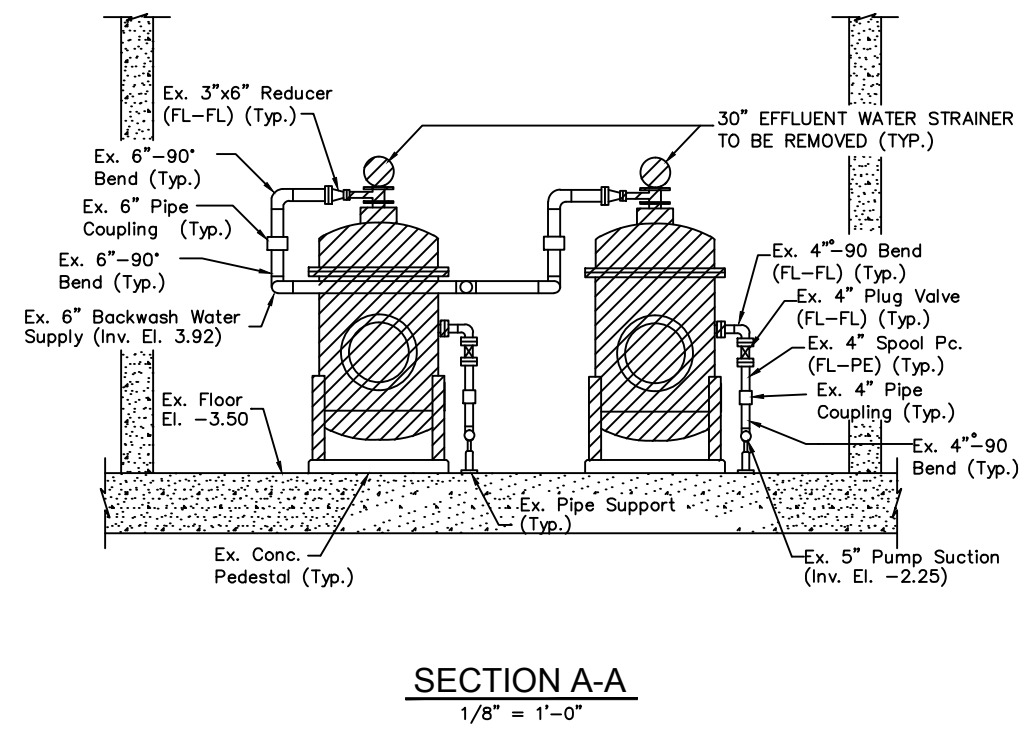
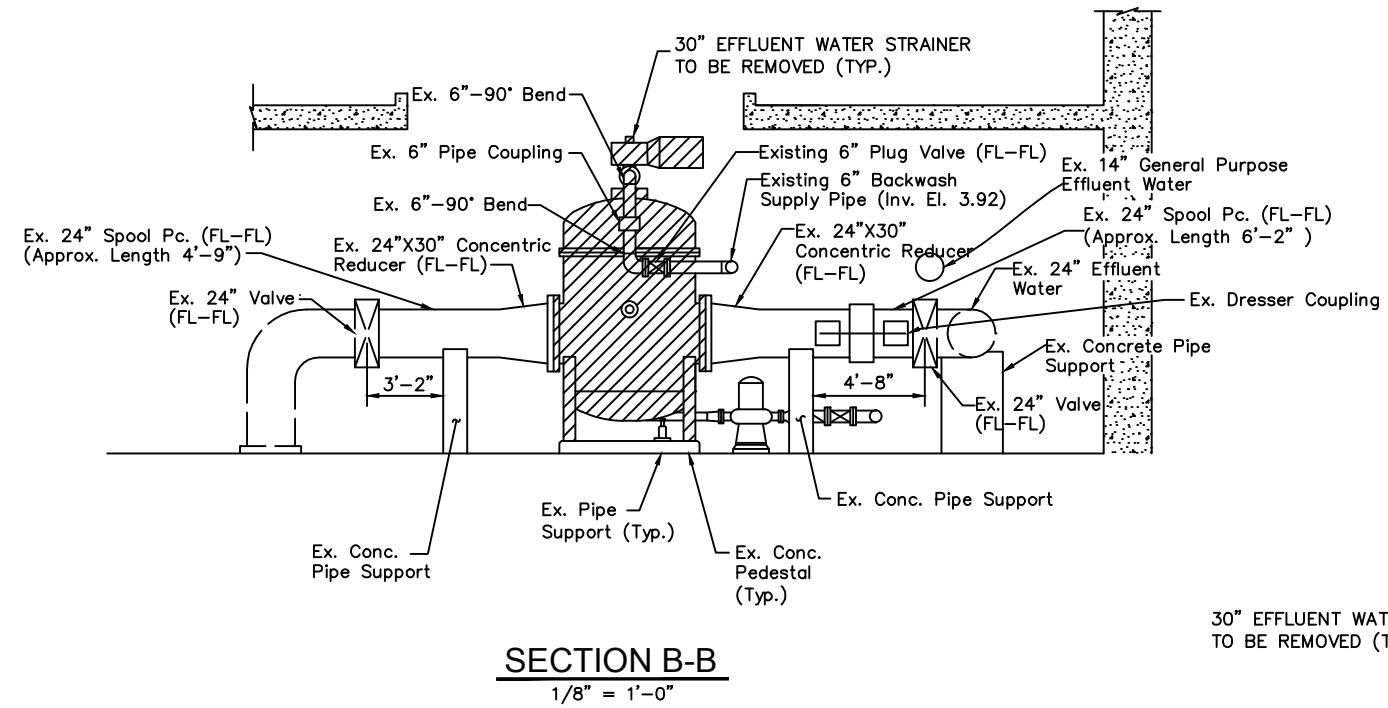
14. SALVAGEABLE MATERIAL, AS DETERMINED BY DEPARTMENT PERSONNEL, SHALL BE DELIVERED TO THE PARTS WAREHOUSE LOCATED ON THE TREATMENT PLANT SITE. NON-SALVAGEABLE MATERIALS ARE TO BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
15. THE CONSTRUCTION SITE SHALL BE MAINTAINED IN AS NEAT AND ORDERLY CONDITION AS POSSIBLE DURING CONSTRUCTION OPERATIONS. SITE SHALL BE SECURED WITH TEMPORARY FENCING AND STRUCTURES DURING HOURS WHEN CONTRACTOR IS NOT PRESENT TO ENSURE SAFETY OF CITY EMPLOYEES AND THE PUBLIC.
16. CONTRACTOR SHALL RESTORE ALL STRUCTURES, PIPING & PIPE SUPPORTS. PAVEMENT THAT MAY HAVE BEEN DAMAGED DURING CONSTRUCTION TO ITS ORIGINAL CONDITION OR BETTER.

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JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	No.	DATE	REVISIONS	DES: MS	CITY of TAMPA WASTEWATER DEPARTMENT	DENITRIFICATION BUILDING EFFLUENT WATER STRAINERS REPLACEMENT	W.O. 5989
	3			DRN: MRL			SHEET
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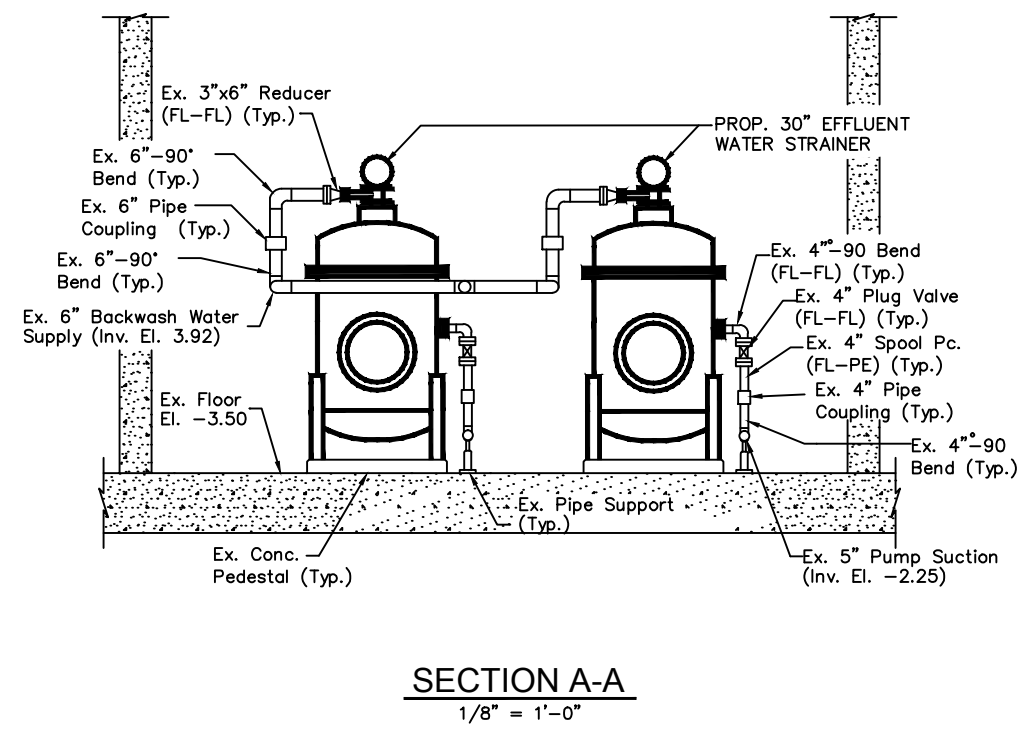
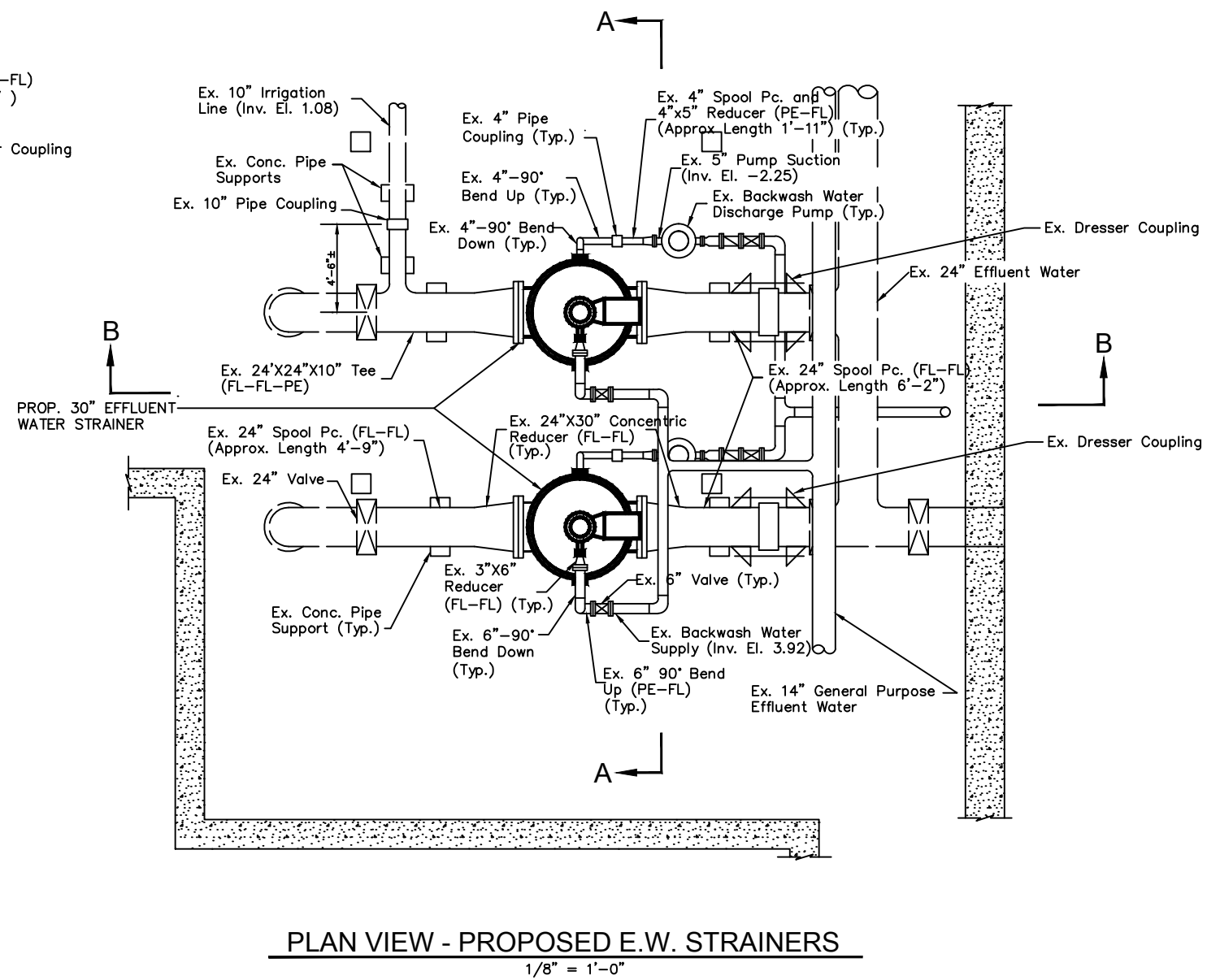
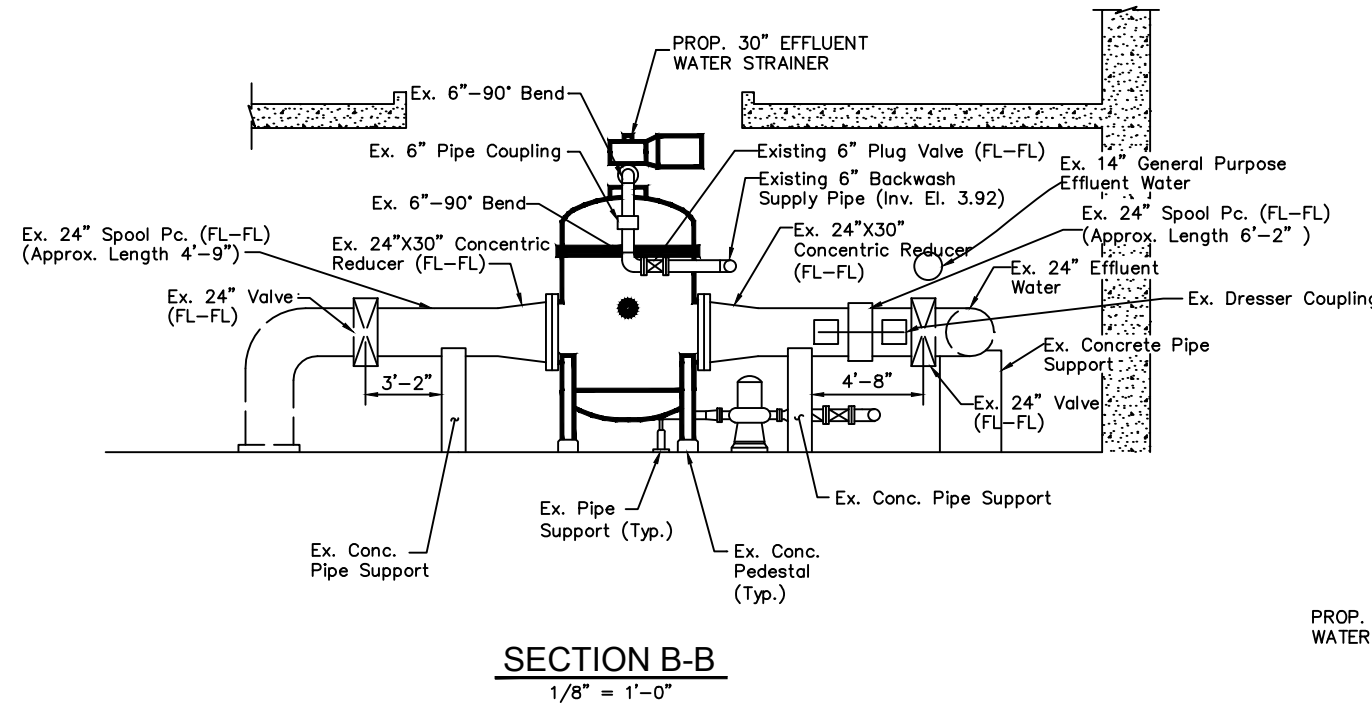


NOTE:

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS TO INSURE SUBMITTED REPLACEMENT STRAINERS WILL FIT WITHIN THE SPACE ALLOWED.
2. REPLACE GASKET ON EXISTING DRESSER COUPLINGS (TYP. OF 2)

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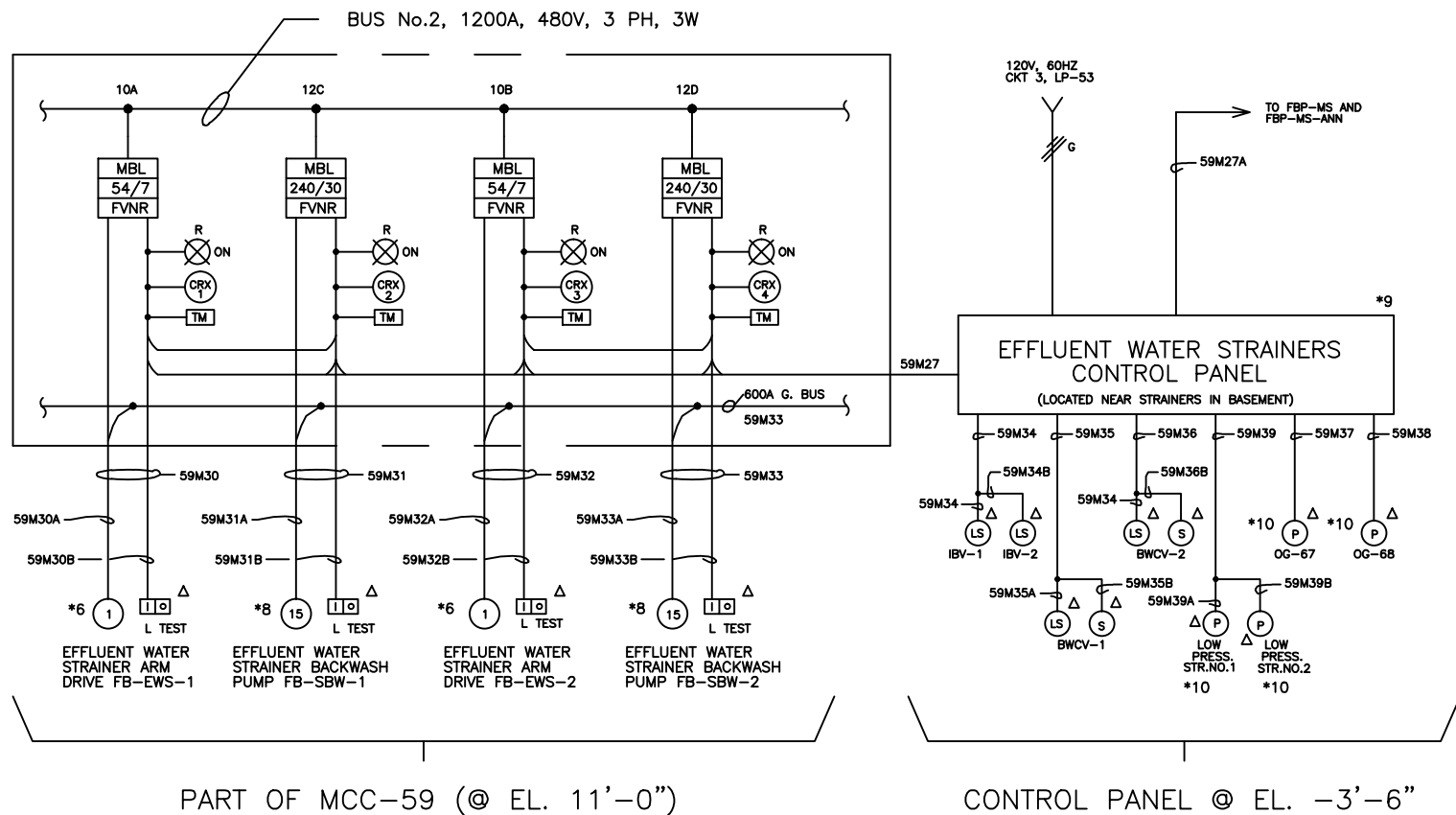
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- NOTE:**
1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS TO INSURE SUBMITTED REPLACEMENT STRAINERS WILL FIT WITHIN THE SPACE ALLOWED.
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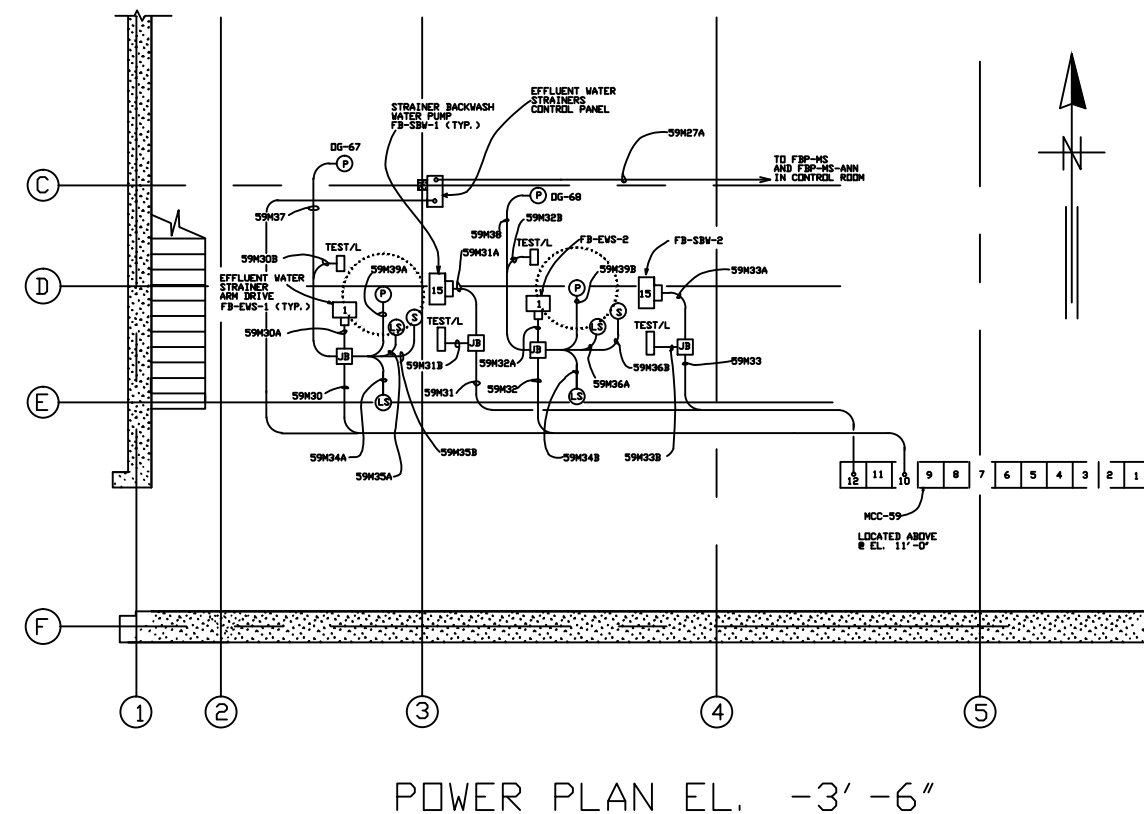
ONE LINE DIAGRAM

NOTES:

- ALL ITEMS SHOWN ARE EXISTING, UNLESS OTHERWISE NOTED. IT IS ANTICIPATED THAT THE STRAINERS, INCLUDING ARM MOTORS, WILL BE REPLACED IN KIND. THE CONTRACTOR IS RESPONSIBLE FOR ANY MODIFICATIONS TO THE EXISTING CONTROLS AND WIRING NECESSARY TO MAKE THE PROPOSED SYSTEM FULLY FUNCTIONAL. EXISTING CONDUITS AND CONDUCTORS MAY BE REUSED, WHERE PRACTICABLE.
- NOTES FOR SPECIFIC ITEMS ON THE ELECTRICAL SHEETS ARE MARKED WITH : *(note #); e.g. *6.
- △ - INDICATES REMOTE CONTROLS MOUNTED NEAR THE END DEVICE.
 - - INDICATES A DEVICE ON OR WITHIN MCC-59.
 - ◆ - INDICATES A DEVICE ON OR WITHIN THE EFFLUENT WATER CONTROL PANEL.
- NEW STRAINER ARM MOTORS SHALL BE PROVIDED WITH THE NEW STRAINERS.
- MODIFY MCC-59, CUBICLES 10A AND 10B, AS NECESSARY, TO SUIT THE NEW STRAINER ARM MOTORS.
- THE EXISTING BACKWASH PUMPS AND CONTROLS SHALL BE REUSED WITH MINOR MODIFICATIONS, AS NECESSARY, TO SUIT THE NEW STRAINER SYSTEM.
- THE EXISTING STRAINERS CONTROL PANEL SHALL BE REUSED WITH MINOR MODIFICATIONS, AS NECESSARY, TO SUIT THE NEW STRAINER SYSTEM.
- THE EXISTING VACUUM AND PRESSURE SWITCHES SHALL BE CAREFULLY REMOVED, BENCH TESTED AND CALIBRATED FOR USE ON THE NEW STRAINER SYSTEM. UNITS DETERMINED TO BE FAULTY SHALL BE REPLACED, IN KIND, BY THE CONTRACTOR FOLLOWING APPROVAL FROM THE CITY FOR EXTRA WORK.

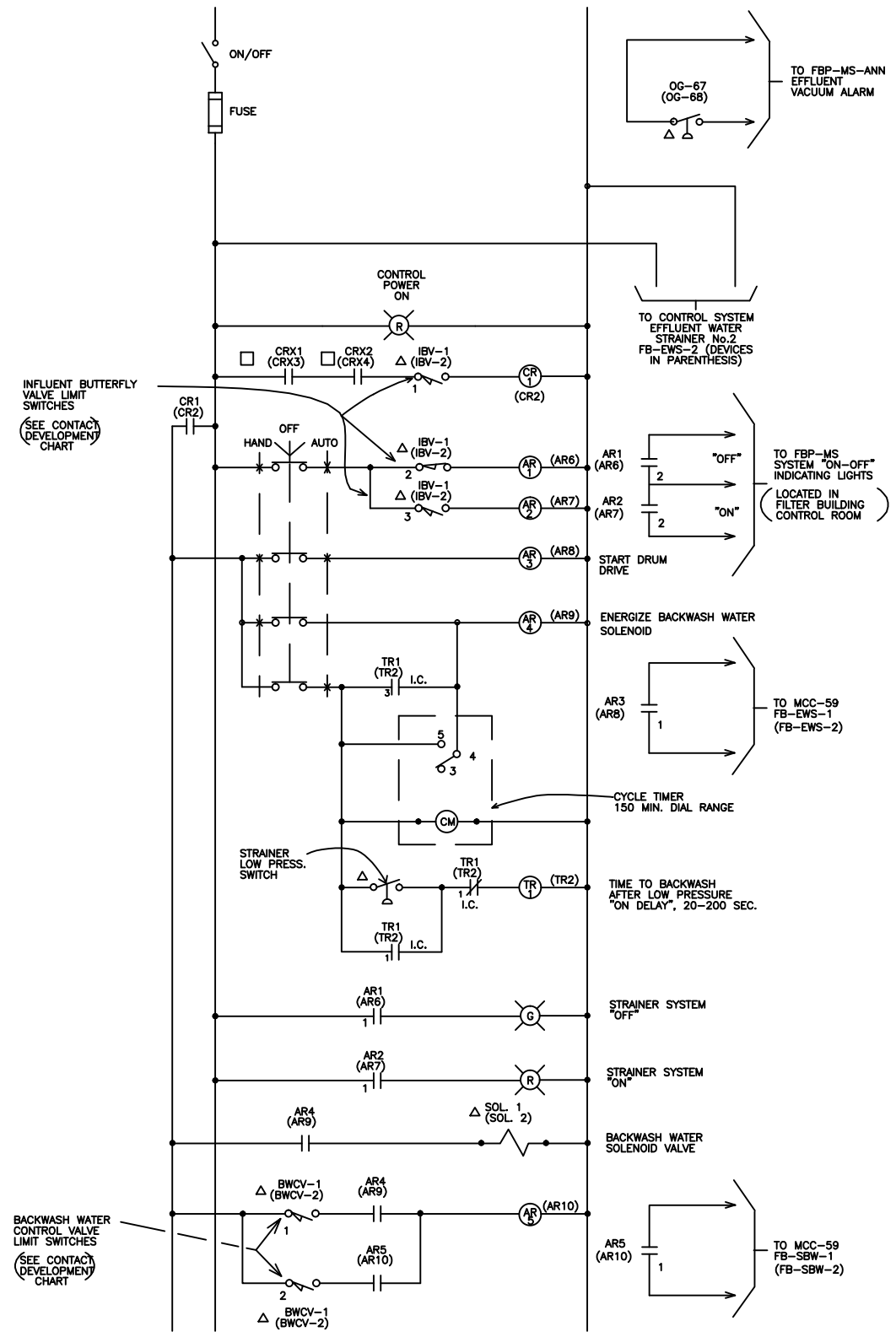
1	2	3	4	5	6	7	8	9	10	11	12
A	B	A	B	A	SPACE	SPACE	SPACE	A	*7	A	12
FB-DC-1	SPACE	FB-SP-1	PT-SP-1	CA-SSP-1	B	SPACE	B	SPACE	FB-EWS-1	GM-1 & GM-2	FB-TDP-1
				CA-SSP-2	C	SPACE	C	MCC-59B	*7	B	
				LIP'S SEL. SV. & ALARM RELAY	D	SPACE	D		FB-EWS-2	SPARE (FB-TDP-1 FUTURE)	FB-TDP-2
					C		C		FB-CHSV-1	C	*8
										SPACE	FB-SBV-1
										D	*8
										SPACE	FB-SBV-2
										D	*8

MOTOR CONTROL CENTER MCC-59
FRONT ELEVATION



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ROMAN D. KORCHAK, P.E. #42626 ELECTRICAL SECTION HEAD WASTEWATER DEPARTMENT	No.	DATE	REVISIONS	DES: RK DRN: RK CKD: DATE:	CITY of TAMPA WASTEWATER DEPARTMENT	DENITRIFICATION BUILDING EFFLUENT WATER STRAINERS REPLACEMENT	ONE LINE & POWER PLAN	W.O. 5989
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EFFLUENT WATER STRAINER CONTROL PANEL SCHEMATIC
STRAINER NO.1 CONTROL SHOWN, STRAINER NO.2 SIMILAR

ACCURACY OF EXISTING CONTROL SCHEMATICS AND CONNECTIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR. (TYP. ALL SCHEMATICS THIS SHEET)

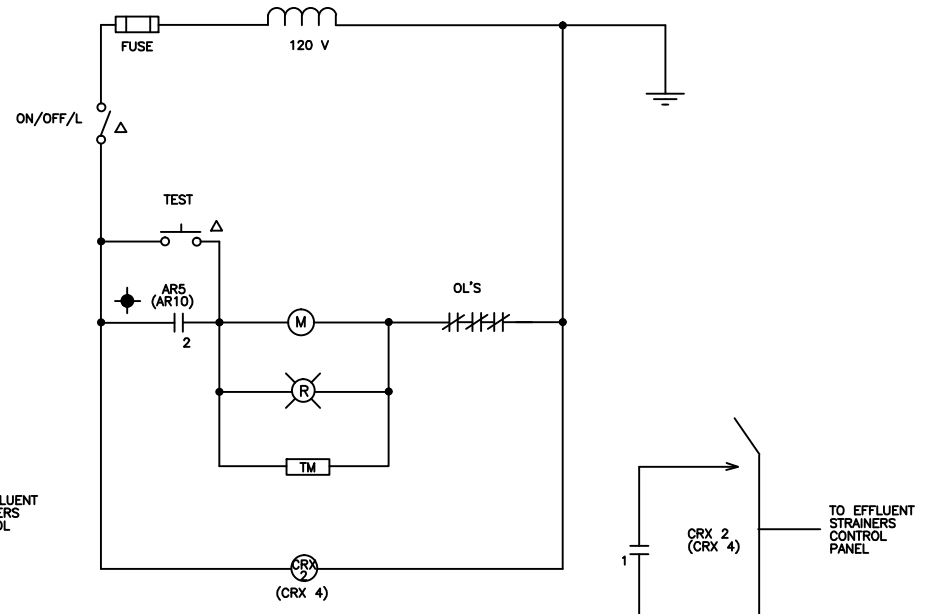
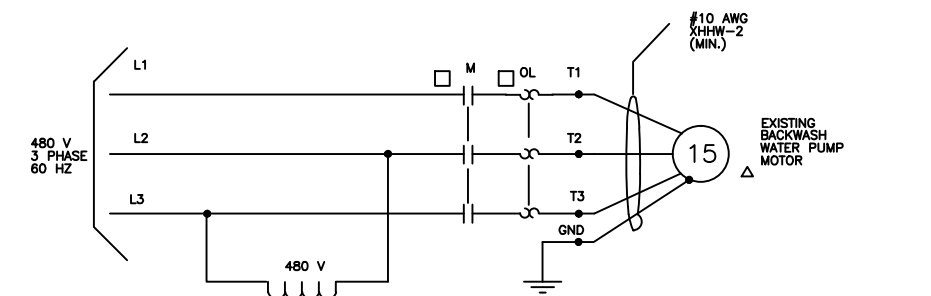
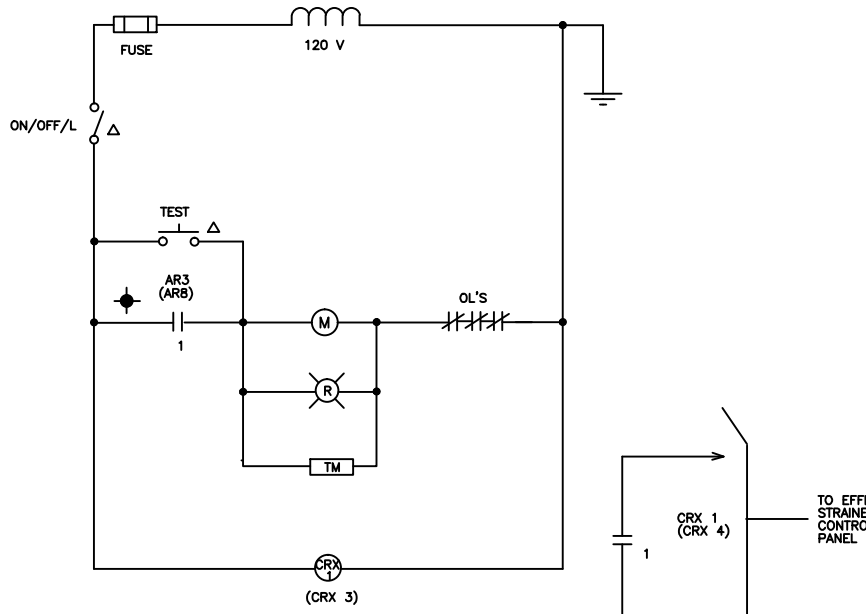
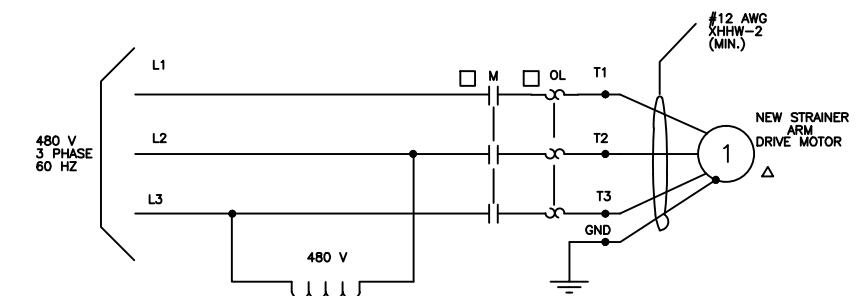
- NOTES:**
1. THE EXISTING EFFLUENT WATER STRAINERS CONTROL PANEL SHALL BE MODIFIED AS SHOWN, SPECIFIED, OR REQUIRED. CONNECT THE MODIFIED CONTROLS TO THE NEW STRAINERS UTILIZING EXISTING CONDUITS, CONDUCTORS, AND FITTINGS WHERE PRACTICABLE. SUPPLY AND INSTALL NEW MATERIALS AS NECESSARY TO IMPLEMENT THE STRAINER CONVERSION. NEW MATERIAL SHALL MATCH THE STYLE AND QUALITY OF THE EXISTING.
 2. THE EXISTING BACKWASH WATER PUMP MOTORS, AIR OPERATED CONTROL VALVES, INFLUENT BUTTERFLY VALVE LIMIT SWITCHES, PRESSURE AND VACUUM SWITCHES, AND LOCAL MOTOR CONTROLS SHALL BE CAREFULLY REMOVED, IF NECESSARY, AND REINSTALLED FOR THE NEW STRAINER SYSTEM.
 3. NEW ARM DRIVE MOTORS SHALL BE PROVIDED AS PART OF THE STRAINER PACKAGE. SUPPLY AND INSTALL ANY NECESSARY CONDUITS, CONDUCTORS, AND MISCELLANEOUS HARDWARE TO IMPLEMENT THE STRAINER CONVERSION.
 4. PROVIDE AND INSTALL NEW OVERLOAD THERMAL UNITS FOR THE BACKWASH ARM DRIVE MOTOR OVERLOAD RELAYS IN MCC-59, CUBICLE 10A AND 10B, IF NECESSARY.
 5. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE W/ THE EDITION OF THE NEC ADOPTED BY THE LATEST FLORIDA BUILDING CODE. ALL APPLICABLE LOCAL CODES MUST ALSO BE FOLLOWED.
 6. MATERIALS AND PROCEDURES OUTLINED IN SECTION W-76 OF THE SPECIFICATIONS (CONDUIT, WIRE AND GROUNDING) SHALL BE USED TO PERFORM THE ELECTRICAL WORK.

CONTACT DEVELOPMENT CHART
24" INFLUENT BUTTERFLY VALVE LIMIT SWITCHES
 TWO VALVES: IBV-1, IBV-2

CONTACT	VALVE POSITION			FUNCTION
	FULL OPEN	INTERMEDIATE A	FULL CLOSED	
1				SYSTEM PERMISSIVE OPERATION
2				"OFF" INDICATOR LTS. (AR1,AR6) - GREEN
3				"ON" INDICATOR LTS. (AR2,AR7) - RED
4				SPARE

CONTACT DEVELOPMENT CHART
BACKWASH WATER CONTROL VALVE LIMIT SWITCHES
 TWO VALVES: BWCV-1, BWCV-2

CONTACT	VALVE POSITION			FUNCTION
	FULL OPEN	INTERMEDIATE A	FULL CLOSED	
1				START BACKWASH WATER PUMP
2				START BACKWASH WATER PUMP



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