



CITY OF TAMPA

Bob Buckhorn, Mayor

CONTRACT ADMINISTRATION DEPARTMENT

David L. Vaughn, AIA, Director

ADDENDUM NO. 2

DATE: November 7, 2013

Contract 12-C-00042; Howard F. Curren AWTP Raw Sewage Pump Station Improvements

Bidders on the above referenced project are hereby notified that the following addendum is made to the Contract Documents. BIDS TO BE SUBMITTED SHALL CONFORM TO THIS NOTICE.

- Item 1: Revisions to Plans: Replace the following sheets 2, 3, 8, 9, 13, 14, 15, 16, 17, 18, and 19 in the plans with the attached revised sheets 2, 3, 8, 9, 13, 14, 15, 16, 17, 18, and 19.
- Item 2: Specific Provision SP-64 Bypass Pumping: Third Paragraph, First Sentence: Change the minimum peak flow rate from 22MGD (15,300 gpm) to 15 MGD (10,400 gpm). Remove the sixth paragraph (The bypass pumping system shall include at least two back-up pumps...required for the system) and insert the following:

To further ensure that no interruptions occur, the Contractor must have adequate back-up pumps on site at all times. The number of back-up pumps shall conform to the following chart:

<u>OPERATING BYPASS PUMPS</u>	<u>REQUIRED BACK-UP PUMPS</u>
1	1
2	1
3	2

The Operating Bypass Pumps column above indicates the number of pumps needed to be able to pump the minimum peak flow rate (15 MGD). The Required Back-Up Pumps column above indicates the necessary number of pumps, that is no smaller than the largest operating pump, that need to be on site, hook-up as necessary to start pumping automatically.

- Item 3: Add Specific Provision: SP-134 Disassembling Electrical Room Enclosure for Equipment Ingress/Egress

The intent of the Plans, with regards to the electrical room enclosure is that it is expected to be necessary to disassemble some portion of the electrical room enclosure in order to move the existing motor control center (MCC) out and move the Proposed MCC into the electrical room. The Wastewater Department expects that the designated Contractor would prefer to minimize the extent of disassembling the existing enclosure as much as is practical. If any of the original

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construction material(s) suffers damage, and is not suitable for construction use, as determined by the Engineer, it must be replaced with new material(s). The following list of materials are acceptable replacements for the original construction materials:

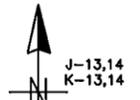
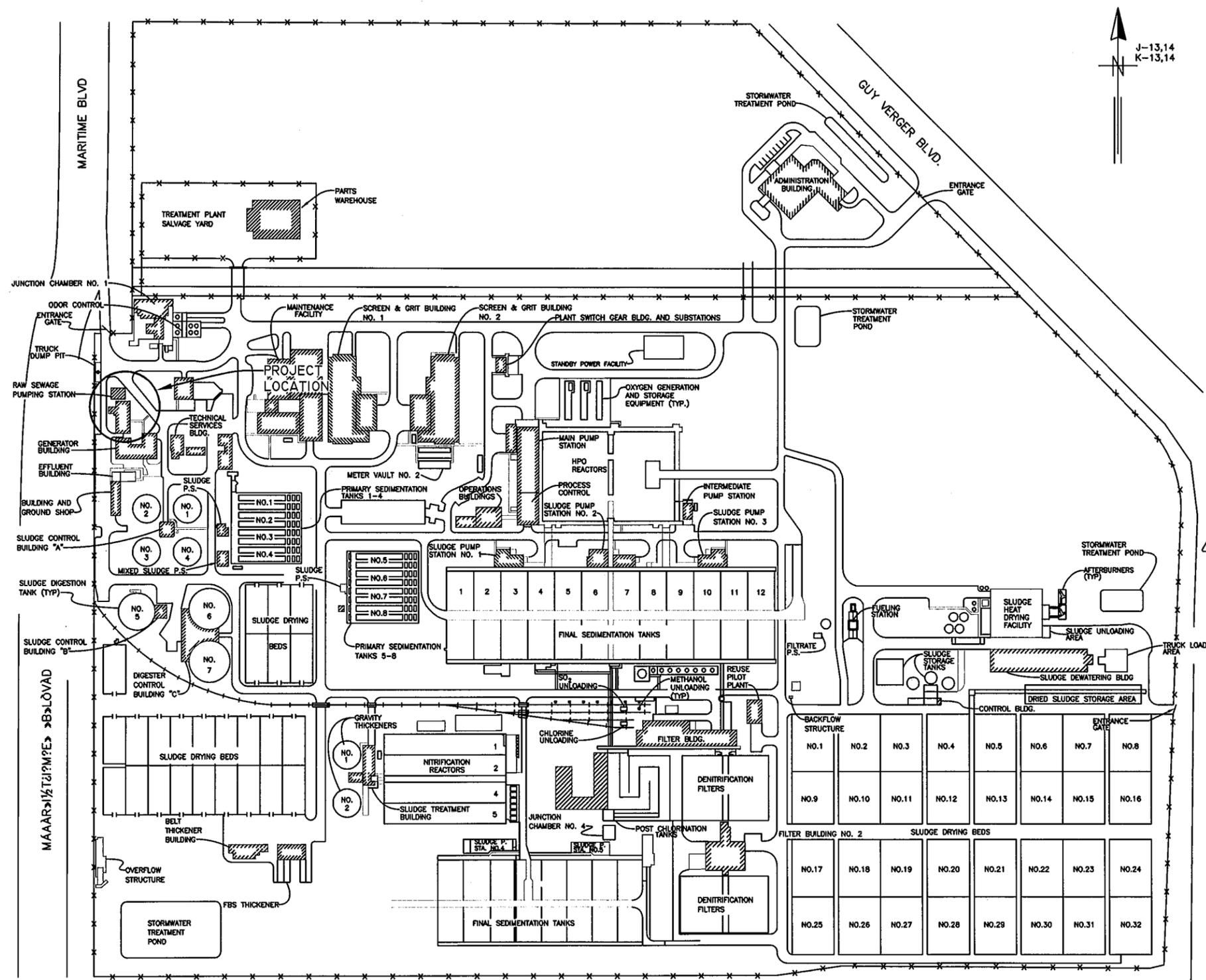
- a) Wood: Structural Lumber, if replaced, shall be Pressure treated, No. 2 Structural Southern Pine. Plywood shall be exterior plywood, Grade B-C.
- b) Thermal Protection: 3.5-inches of fiberglass insulation: 3.5" Owens Corning Ecotouch, R-13, Fiberglass Insulation.
- c) Drywall: Gypsum Board shall be ToughRock Mold-Guard Gypsum Board, as made by Georgia-Pacific, or equal, and shall be provided in sheet sizes as to minimize the number of joints. Drywall shall be installed and painted to match the existing finished surfaces as close as practical. Contractor shall submit method of reconstructing existing wall for approval.
- d) Sound Deadening Board: ToughRock Sound Deadening Board as made by Georgia-Pacific, or equal,
- e) Doors & Windows: Existing doors and windows, if removed, shall be put back in place in the same manner as it was installed.
- f) Acoustical Ceiling: Existing ceiling tiles should be put back in place in the same manner as originally hung.
- g) Vinyl Baseboards: Replace in kind, if removed.
- h) Masonry: No masonry work should be necessary on this project.
- i) Miscellaneous Metals: Replace in-kind, if removed.
- j) Painting: Sherwin Williams Multi-Surface Acrylic, B66-500 Series; 2-coats at 4 mils each DFT

- Item 4: Existing T-Lok PVC Liner and Concrete Coating Clarification: The existing T-Lok PVC liner begins at elevation -11.60 and covers all existing concrete in the wet well above this elevation.
- Item 5: Masonry Clarification: Notes on plan sheets 18 and 19 are for informational purposes only. Masonry work is not anticipated on this project.
- Item 6: Bypass Plan Clarification: The drawing on Sheet 17 of the Plans is intended to show only the basics of the bypass pumping set-up: Where the suction manhole is and where the discharge pipe is. The Contractor is solely responsible for submitting the bypass configuration to the City for approval.
- Item 7: Manhole Dimensions: The manhole, shown on plan sheet 17, is 48-inches in diameter (I.D.) and approximately 18-feet in depth, from ground level down to channel invert.

All other provisions of the Contract Documents and Specifications not in conflict with this Addendum shall remain in full force and effect. Questions are to be e-mailed to Contract Administration@tampagov.net.

Jim Greiner

Jim Greiner, P.E., Contract Management Supervisor



INDEX			
SH. No.	DESCRIPTION	SH. No.	DESCRIPTION
1	COVER SHEET	E15	PROP. MCC-64 BUBBLER (SEC.12)
2	PROJECT LOCATION AND INDEX	E16	PROP. MCC-64 PLC/ANNUN(SEC. 13)
3	NOTES (GENERAL, BYPASS & DEMO)	E16A	PROP. ANNUNCIATOR SCREENS
4	EXISTING SITE PLAN	E16B	PROP. PUMP CONTROL SCREENS
5	DEMOLITION PLAN VIEWS	E17	PROP. MCC-64 SEC. 12-13 FR. EL.
6	DEMOLITION SECTIONS	E18	EX. MCC-65A 1-LINE (SEC. 14)
7	PROPOSED SITE PLAN	E19	PROP. MCC-65A 1-LINE (SEC. 14)
8	PROPOSED PLAN VIEW	E20	EX. MCC-65B 1-LINE(SEC. 15-16)
9	PROPOSED SECTION B-8	E21	PROP. MCC-65B 1-LINE(SEC.15-16)
10	PROPOSED SECTION C-8	E22	EX. AFD No.1 DETAILS (SEC. 9)
11	PROPOSED SECTION D-8	E23	EX. AFD No.1 DETAILS (SEC. 10A)
12	PROPOSED SECTION E-8	E24	PROP. AFD No1 FRONT EL. (SEC. 9)
13	PROP. ROOF STRUCTURE DETAILS	E25	PROP. AFD No1 DETAILS (SEC. 9)
14	CONC. REINFORCEMENT DETAILS	E26	PROP. AFD No1 DETAILS (SEC. 10A)
15	MISCELLANEOUS PROPOSED DETAILS	E27	EX. AFD No.2 DETAILS (SEC. 11)
16	MISCELLANEOUS PROPOSED DETAILS	E28	EX. AFD No.2 DETAILS (SEC. 10B)
17	BYPASSING & BUBBLER DETAILS	E29	PROP. AFD No.2 FRONT EL. (SEC. 11)
18	EX. CONDITIONS - ELEC. ROOM ENC.	E30	PROP. AFD No.2 DETAILS (SEC. 11)
19	EX. CONDITIONS - ELEC. ROOM ENC.	E31	PROP. AFD No.2 DETAILS (SEC. 10B)
E0	SITE PLAN & DRAWING INDEX	E32	EX. AFD No.3 DETAILS (SEC. 8)
E1	SYMBOLS (SHEET 1 OF 2)	E33	EX. AFD No.3 DETAILS (SEC. 7B)
E1A	SYMBOLS (SHEET 2 OF 2)	E34	PROP. AFD No.3 FRONT EL. (SEC. 8)
E2	SCOPE OF WORK & GEN. NOTES	E35	PROP. AFD No.3 DETAILS (SEC. 8)
E3	RSPS & CTRL. RM. DEMO PLANS	E36	PROP. AFD No.3 DETAILS (SEC. 7B)
E4	RSPS & CTRL. RM. PROP. PLANS	E37	EX. AFD No.4 DETAILS (SEC. 6)
E5	CONDT. & CONDTR. SCH.(1 OF 2)	E38	EX. AFD No.4 DETAILS (SEC. 7A)
E5A	CONDT. & CONDTR. SCH.(2 OF 2)	E39	PROP. AFD No.4 FRONT EL. (SEC. 6)
E6	EX. 1-LINE DIAGRAM (ELEM.)	E40	PROP. AFD No.4 DETAILS (SEC. 6)
E7	PROP. 1-LINE DIAGRAM (ELEM.)	E41	PROP. AFD No.4 DETAILS (SEC. 7A)
E8	CTRL. RM. SWITCHGEAR / MCC	E42	SCREENING EQUIP. INTERCONNECTIONS
E9	TEMP. POWER DETAILS (1 OF 2)	E43	SCREENING EQ. CTRL. PANEL(1 OF 5)
E9A	TEMP. POWER DETAILS (2 OF 2)	E44	SCREENING EQ. CTRL. PANEL(2 OF 5)
E10	EX. SWCH GR 1 LINE(SEC. 1-5)	E45	SCREENING EQ. CTRL. PANEL(3 OF 5)
E11	PROP. SWCH GR 1 LINE(SEC. 1-5)	E46	SCREENING EQ. CTRL. PANEL(4 OF 5)
E12	EX. MCC-64 1-LINE (SEC. 6-11)	E47	SCREENING EQ. CTRL. PANEL(5 OF 5)
E13	EX. MCC-64 1-LINE (SEC. 12-13)	E48	OUTDOOR DISCONNECT DET. (1 OF2)
E14	PROP. MCC-64 1-LINE(SEC. 6-11)	E49	OUTDOOR DISCONNECT DET. (2 OF2)

HOWARD F. CURREN WASTEWATER TREATMENT PLANT
 SITE PLAN / PROJECT MAP
 NOT TO SCALE

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

No.	DATE	REVISIONS
3		
2		
1	11/04/13	REVISED SHEET DESCRIPTION

DES: J.H.
 DRN: BB
 CKD:
 DATE:

CITY of TAMPA
 HOWARD F. CURREN
 ADVANCED WASTEWATER TREATMENT PLANT

HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT
 RAW SEWAGE PUMPING STATION IMPROVEMENTS
 PROJECT LOCATION & INDEX

W.O. 4506
 SHEET
2

1. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE CONTRACT ADMINISTRATION DEPARTMENT, WASTEWATER PERSONNEL AND AWTP OPERATIONS.
2. DIMENSIONS SHOWN ARE NOT NECESSARILY ACCURATE TO THE DEGREE REQUIRED FOR FABRICATION. EXISTING DIMENSIONS AND VIEWS ARE SHOWN BASED ON EARLIER PLAN SETS AND VISUAL OBSERVATIONS. CONTRACTOR SHALL FIELD VERIFY ALL PERTINENT DIMENSIONS AND REFLECT THEM ON DETAILED SHOP DRAWINGS FOR APPROVAL BEFORE ANY FABRICATION.
3. 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 SUBMITTALS REVIEW.
4. CONTRACTOR IS RESPONSIBLE FOR MEETING ALL FEDERAL, STATE AND LOCAL GOVERNMENT REGULATIONS IN REGARDS TO WORKING IN CONFINED SPACES.
5. OSHA STANDARD SAFETY EQUIPMENT, SUCH AS SAFETY HARNESSSES, GAS MONITORS, LOWER EXPLOSIVE LIMIT (LEL) DETECTORS, BREATHING APPARATUS, PERSONAL RETRIEVAL SYSTEMS, ETC. SHALL BE UTILIZED WHERE THE WORK DICTATES THEIR USE.
6. DURING THE REHABILITATION PROCESS, THE STRUCTURES SHALL BE ADEQUATELY VENTILATED AND OXYGEN AND HYDROGEN SULFIDE LEVELS SHALL BE CONTINUOUSLY MONITORED. THE CONTRACTOR MAY ALSO UTILIZE FORCED AIR.
7. SEWER SERVICE TO CUSTOMERS SHALL NOT BE DISRUPTED DURING CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A PROPOSAL FOR A BYPASS PUMPING STRATEGY. THE CONTRACTOR SHALL ALSO SUBMIT A SCHEDULE OF SEQUENCES FOR COMPLETION, TESTING AND TRANSFER OF DUTY BACK TO THE PUMP STATION ALONG WITH THE PUMPING STRATEGY.
8. PRIOR TO BYPASS PUMPING, THE CONTRACTOR SHALL HAVE IN HIS POSSESSION ALL PROPOSED PUMPS, VALVES, PIPING, COATINGS, APPURTENANCES AND ALL NECESSARY BAR SCREEN, WASHER-COMPACTOR AND ELECTRICAL EQUIPMENT TO MINIMIZE THE DURATION OF THE BYPASS PUMPING.
9. 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.
10. PRIOR TO PRESSURE WASHING THE WET WELL, THE CONTRACTOR SHALL BE REQUIRED TO CLEAN AND REMOVE ALL GREASE, SEDIMENT AND DEBRIS FROM THE WET WELL WALLS, CEILING AND FLOOR. THE GREASE, SEDIMENT AND DEBRIS SHALL BE PROPERLY DISPOSED OF AT THE SLUDGE DRYING BEDS ON THE TREATMENT PLANT SITE.
11. CHECK VALVES SHALL BE APCO SERIES 6000B - OIL CONTROL/BOTTOM BUFFER, SWING CHECK VALVES. OIL RESERVOIRS FOR CHECK VALVES SHALL BE MOUNTED ON THE WEST SIDE OF EACH VALVE. EACH VALVE SHALL BE EQUIPPED WITH A LIMIT SWITCH. THE LIMIT SWITCHES SHALL BE MOUNTED ON THE EAST SIDE OF EACH VALVE. SEE ELECTRICAL DETAILS FOR MORE INFORMATION.
12. THE TWO 24" DIAMETER AND TWO 16" DIAMETER DISCHARGE PIPES SHALL BE REPLACED WITH 24" (& 16") HDPE, DR-11, GREEN STRIPE, DIPS-OD PIPING. HDPE JOINTS SHALL BE BUTT FUSED OR FLANGED WITH 316 S.S. BACK-UP RINGS. THE LOCATIONS OF PROPOSED FLANGED JOINTS SHALL BE AS INDICATED IN THE PLANS.
13. TESTING OF THE NEW DISCHARGE PIPES SHALL BE ACCOMPLISHED BY OPERATING EACH PUMP FOR MINIMUM 1-HOUR DURATION AND OBSERVING FOR ANY LEAKS. ANY MANUAL PUMP OPERATION OR SWITCHING PUMPS MUST BE PERFORMED BY CITY PERSONNEL.
14. PROPOSED BAR SCREEN EQUIPMENT SHALL BE ONE CONTINUOUS TRIDEN SCREEN & ONE WASHING COMPACTOR, AS MANUFACTURED BY HYDRO-DYNE ENGINEERING, INC., OLDSMAR, FLORIDA OR SHALL MATCH HYDRO-DYNES PUBLISHED SPECIFICATIONS FOR THESE UNITS. SEE SPECIFICATIONS FOR PERFORMANCE DATA AND TECHNICAL INFORMATION.
15. ALL HARDWARE, UNLESS OTHERWISE NOTED, SHALL BE TYPE 316 STAINLESS STEEL.
16. ALL STAINLESS STEEL PARTS TO BE WELDED SHALL BE THE LOW-CARBON VERSION OF THE GRADE OF STAINLESS STEEL THAT IS CALLED FOR, SUCH AS: T-316L OR T-304L.
17. ALL CEMENTITIOUS CONCRETE AND GROUT, UNLESS OTHERWISE SPECIFIED, SHALL BE CLASS "B" 4000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.

18. THE CONTRACTOR SHALL TREAT ANY EXPOSED REBAR, OR OTHER METAL IN THE CONCRETE EXPOSED BY HIS ACTIONS, BY GRINDING THEM BACK A MINIMUM OF 1/2 INCH AND FILLING THE DEPRESSIONS(S) WITH EPOXY. △
19. THE CONTRACTOR SHALL RESTORE ANY LANDSCAPING, FENCING, SODDING, SPRINKLER SYSTEM PIPING, PAVEMENT, DITCH BANK AND/OR FLOW LINE, ETC. THAT MAY HAVE BEEN DAMAGED OR ALTERED DURING CONSTRUCTION TO ITS ORIGINAL CONDITION OR BETTER.
20. ALL METAL SURFACES COMING IN CONTACT WITH CONCRETE SHALL BE PROVIDED WITH NEOPRENE PADS OR 2 COATS OF COAL TAR EPOXY WITH PROPER SURFACE PREPARATION. CONTRACTOR SHALL SUBMIT SYSTEM(S) FOR APPROVAL.
21. CONTRACTOR MAY NEED TO DISASSEMBLE PORTIONS OF THE EXISTING PUMP CONTROLS ROOM (IN THE OLD RAW SEWAGE PUMPING STATION BUILDING) IN ORDER TO REMOVE, AND INSTALL, LARGE PIECES OF ELECTRICAL EQUIPMENT. DETAILS OF EXISTING CONTROLS ROOM ARE ON SHEETS 18 & 19 FOR INFORMATION PURPOSES ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING CONTROLS ROOM BACK TO ITS ORIGINAL CONDITION OR BETTER.
22. FULLY WELDED LIFTING CHAINS (TYPE 316 S.S., GRADE 50, MIN.) SHALL BE PROVIDED FOR TWO △ PROPOSED 120 HP PUMPS AND FOR PROPOSED MECHANICAL BAR SCREEN. PUMP LIFTING CHAINS SHALL BE PROVIDED AS RECOMMENDED BY FLYGT PUMPS. BAR SCREEN LIFTING CHAINS SHALL BE TWO (2) 1/2" DIAMETER CHAINS, EACH WITH A MINIMUM WORKING LOAD OF 7,300 POUNDS AND A MINIMUM LENGTH OF 31 FEET.

BYPASSING NOTES

- B-1. SEWER SERVICE TO CUSTOMERS SHALL NOT BE DISRUPTED DURING CONSTRUCTION. CONTRACTOR SHALL SUBMIT DETAILED PROPOSAL FOR PUMPING STRATEGY.
- B-2. CONTRACTOR SHALL PROVIDE BACK-UP BYPASS PUMPS DURING ALL PHASES OF BYPASS PUMPING PROCEDURES. CONTRACTOR SHALL SUBMIT BYPASS PUMPING SYSTEM FOR APPROVAL PRIOR TO STARTING BYPASS OPERATIONS. THE BYPASS PUMPS SHALL BE OF THE SELF-PRIMING TYPE AND PUMP NOISE SHALL STRICTLY COMPLY WITH ALL LOCAL REGULATIONS AND ORDINANCES COVERING NOISE CONTROL.
- B-3. BYPASS PUMPS SHALL SUCTION FROM THE 2ND MANHOLE UPSTREAM OF THE PUMPING STATION WET WELL AND SHALL DISCHARGE INTO THE TREATMENT PLANT'S JUNCTION CHAMBER NO. 1 FACILITY, AS SHOWN IN THE PLANS. THE CONTRACTOR SHALL ROUTE THE PROPOSED BYPASS DISCHARGE PIPING △ THROUGH AN EXISTING 18-INCH PIPE, JUST EAST OF JC#1, WHICH RUNS UNDER THE TREATMENT PLANT'S ACCESS ROAD FROM MARITIME BOULEVARD.
- B-4. THE BYPASS PUMPING EQUIPMENT IS TO REMAIN IN PLACE FOR A TWENTY-FOUR (24) HOUR PERIOD AFTER THE PROPOSED EQUIPMENT AND MATERIALS HAVE BEEN INSTALLED AND THE PUMP STATION IS PLACED BACK IN SERVICE. THIS IS TO SERVE THE PURPOSE OF A TWENTY-FOUR HOUR TEST PERIOD FOR THE NEW EQUIPMENT.
- B-5. ENGINEER WILL NOTIFY THE CONTRACTOR TO PLACE THE PUMPING STATION BACK ON BYPASS IF A FAILURE OF ANY EQUIPMENT (FOR ANY REASON) OCCURS WITHIN THE TWENTY-FOUR HOUR TEST PERIOD.

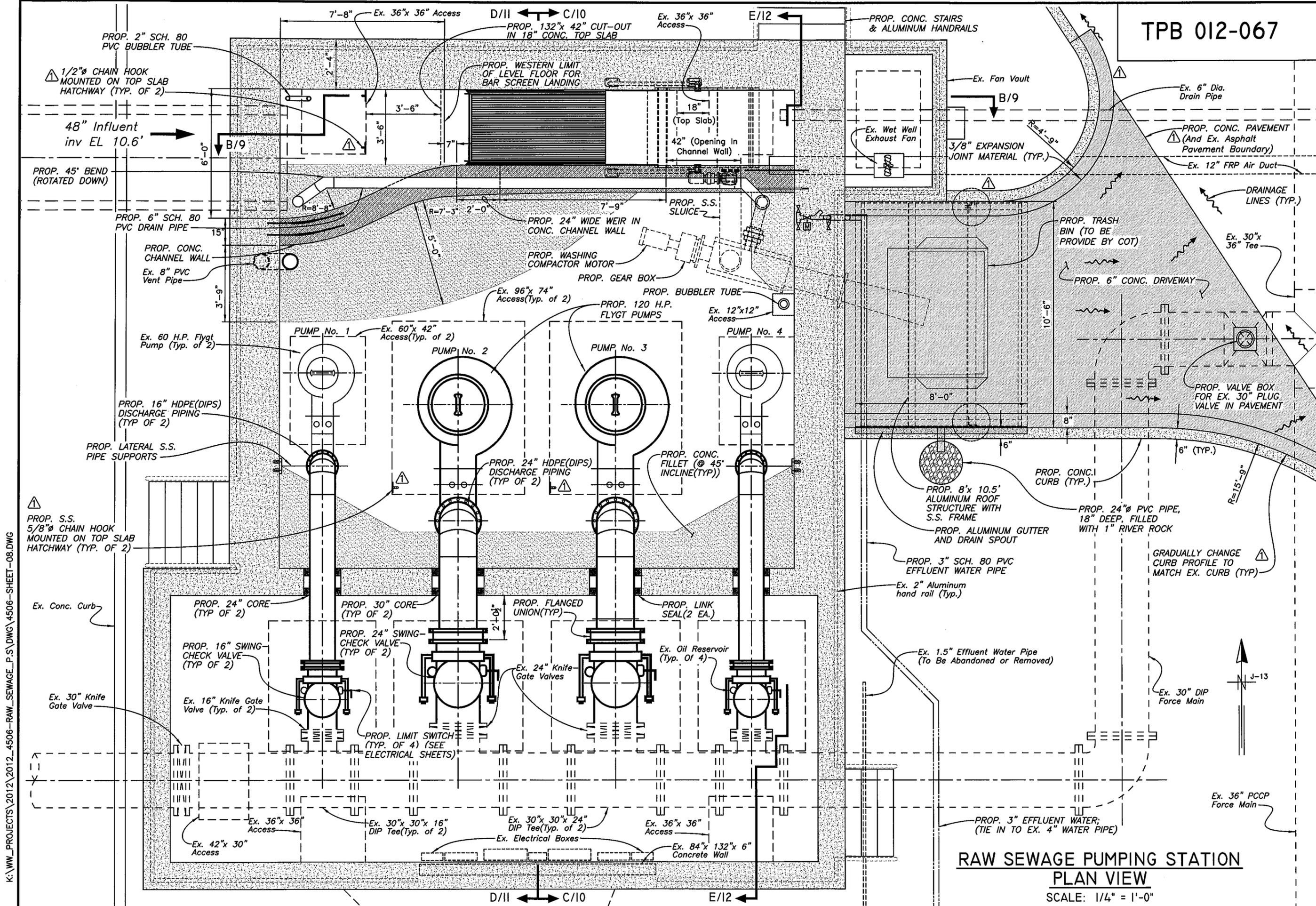
DEMOLITION NOTES

- 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 LANDSCAPING, SODDING, SPRINKLER SYSTEM PIPING AND PAVEMENT THAT MAY HAVE BEEN DAMAGED DURING CONSTRUCTION TO ITS ORIGINAL CONDITION OR BETTER. CONTRACTOR SHALL SOD ALL UNPAVED AREAS.
- D-3. CONTRACTOR SHALL SAW CUT EDGES OF CONCRETE PAVEMENT TO BE REMOVED (AND REPLACED) IN STRAIGHT PERPENDICULAR AND/OR PARALLEL LINES TO EXISTING STRUCTURES.

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JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	No.	DATE	REVISIONS	DES: J.H.	CITY of TAMPA HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT	HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT RAW SEWAGE PUMPING STATION IMPROVEMENTS GENERAL NOTES, BYPASS NOTES AND DEMOLITION NOTES	W.O. 4506
	3			DRN: BB			SHEET
	2			CKD:			3
	△ 11/05/13		CHANGED PIPE SIZE & GRIND DEPTH OF CONC. WALL, ADDED NOTE 22	DATE:			

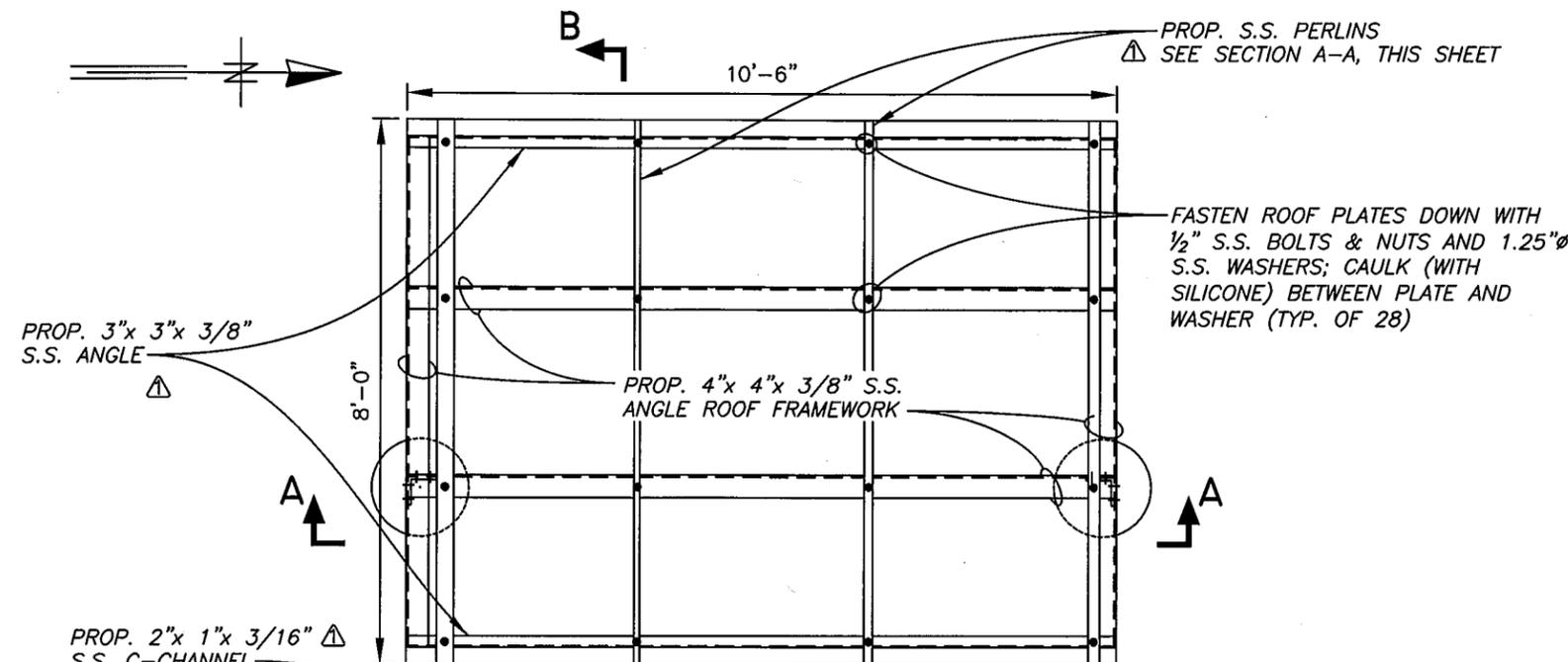
REVISIONS	
No.	DATE
3	
2	
11/05/13 ADDED CHAIN HOOKS, CURB, & RELATED NOTES	
CITY OF TAMPA	
HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT	
DES: J.H.	DATE:
DRN: JB	
CKD:	
HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT RAW SEWAGE PUMPING STATION PLAN VIEW	
W.O. 4506	
SHEET	
8	



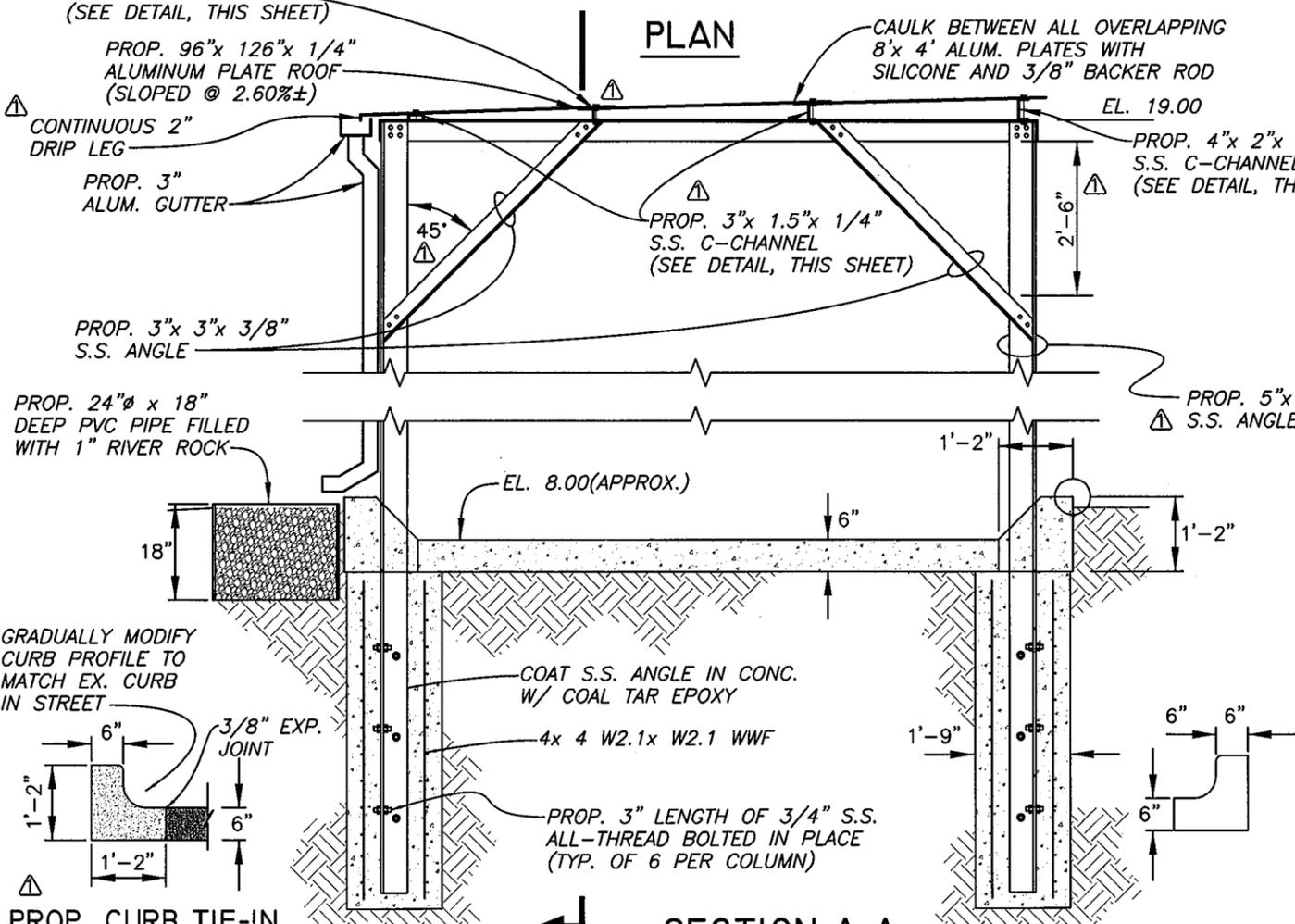
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NOTES:

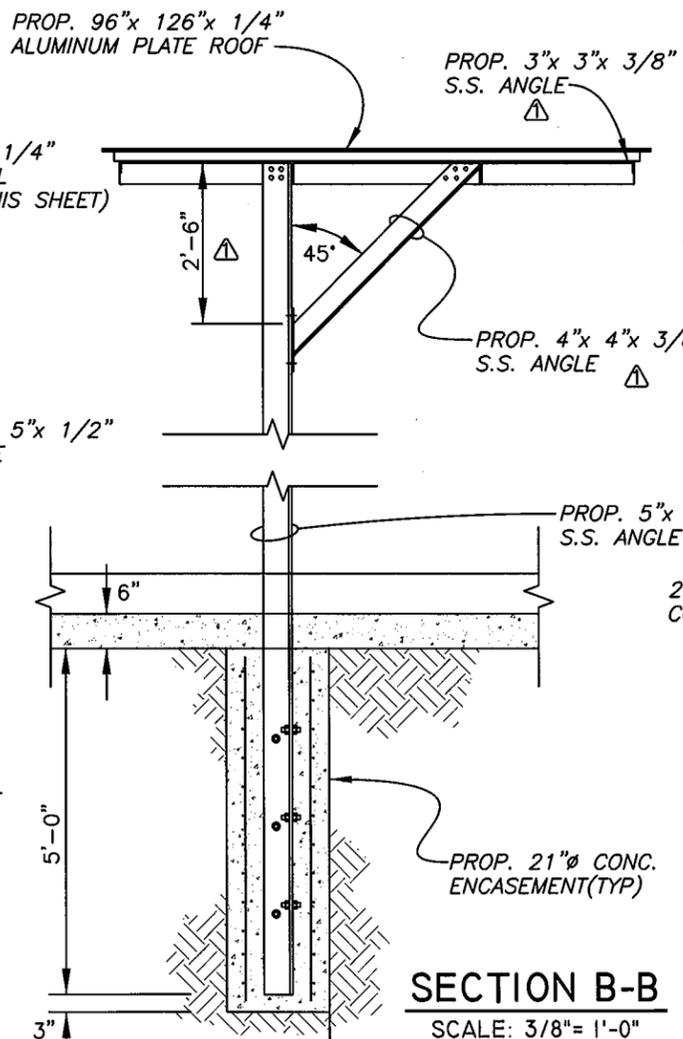
1. ALL STRUCTURAL ANGLES SHALL BE MADE OF TYPE 304L STAINLESS STEEL.
2. ALL ROOF FRAME HORIZONTAL ANGLES TO BE BUTT WELDED TOGETHER. ROOF FRAME SHALL BE BOLTED TO VERTICAL SUPPORT MEMBERS.
3. ALL STRUCTURAL ANGLE WELDED CONNECTIONS SHALL BE MADE WITH FULL PENETRATION BUTT WELDS. BUTT WELDS SHALL BE GROUND DOWN TO A SMOOTH SURFACE ON ALL MATING SURFACES WITH ADJACENT MEMBERS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS DETAILING ALL WELDS ON PROPOSED ROOF FRAME SYSTEM FOR APPROVAL.
4. ALL STRUCTURAL ANGLE BOLTED CONNECTIONS SHALL BE MADE WITH 3/4" DIAMETER TYPE 316 STAINLESS STEEL BOLTS, NUTS, AND LOCK WASHERS. ALL S.S. NUTS SHALL HAVE NYLON INSERTS.
5. ALL DISSIMILAR METAL CONNECTIONS (I.E. ALUMINUM/STAINLESS STEEL) SHALL BE ELECTRICALLY ISOLATED BY USE OF NYLON WASHERS AND PLASTIC BOLT SLEEVES.
6. CONTRACTOR SHALL SUBMIT DATA ON STAINLESS STEEL ROOF BATTENS AND ISOLATED CONNECTIONS TO S.S. ROOF FRAME AND ALUMINUM ROOF PANELS FOR APPROVAL.
7. CONTRACTOR SHALL SUBMIT DATA ON ALUMINUM GUTTER, DOWNSPOUT AND THE CONNECTIONS TO S.S. FRAMING FOR APPROVAL.



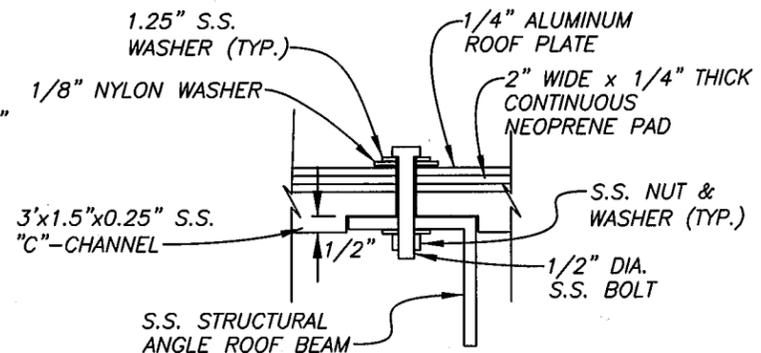
PLAN



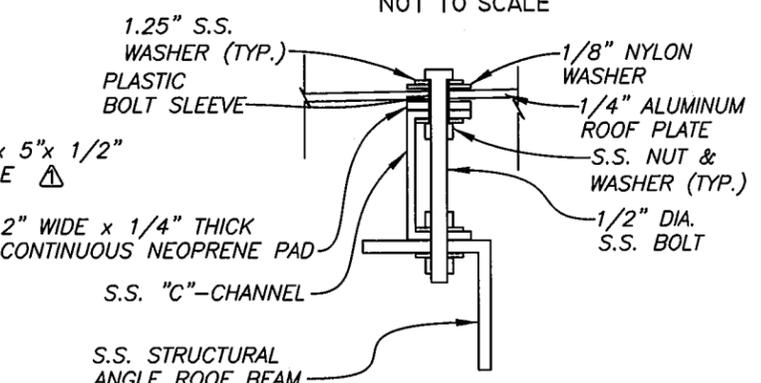
SECTION A-A
SCALE: 3/8" = 1'-0"



SECTION B-B
SCALE: 3/8" = 1'-0"



ROOF TIE-DOWN DETAIL
NOT TO SCALE



ROOF TIE-DOWN DETAIL
NOT TO SCALE

WIND LOADS ARE BASED ON 2010 FLORIDA BUILDING CODE AND ASCE 7-10 "MINIMUM DESIGN LOADS FOR BUILDINGS AND STRUCTURES" USING THE FOLLOWING CRITERIA:

1. WIND SPEED OF 140 MPH
2. RISK CATEGORY II
3. EXPOSURE CATEGORY "C"
4. OPEN STRUCTURE
5. INTERNAL PRESSURE COEFFICIENT: +0.00, -0.00

K:\PROJECTS\2012\2012_VARIOUS PUMP STATION IMPROVEMENTS\DWG\4506-SHEET-04-09.DWG

No.	DATE	REVISIONS
3		
2		
1	11/05/13	VARIOUS REVISIONS; ANGLE SIZE, REINFORCING, ROOF & DETAILS

DES: J.H.
DRN: BB
CKD:
DATE:

CITY of TAMPA
HOWARD F. CURREN
ADVANCED WASTEWATER TREATMENT PLANT

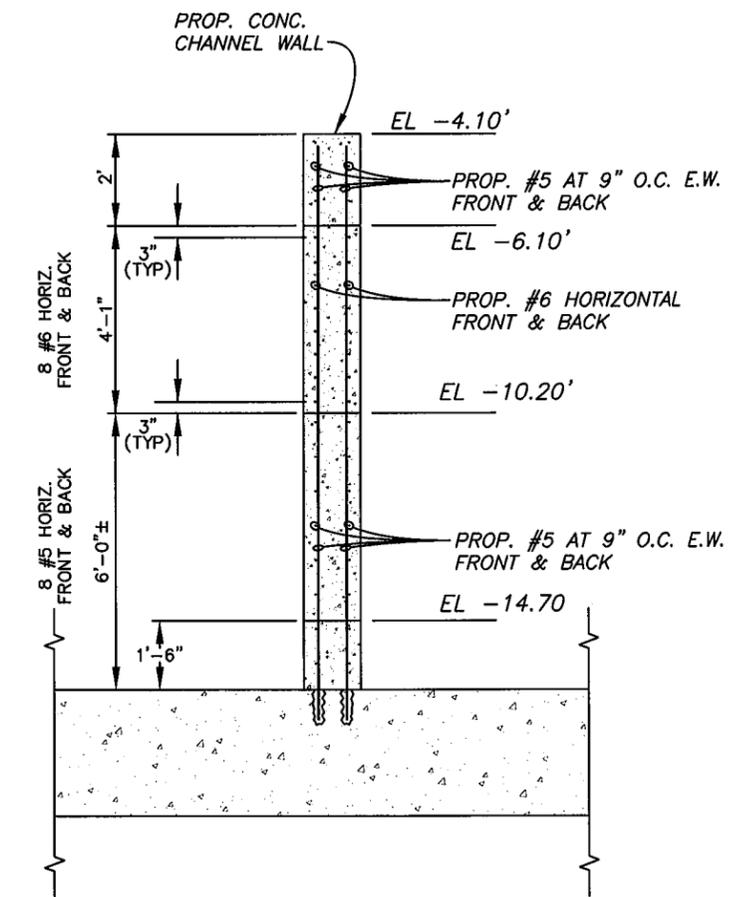
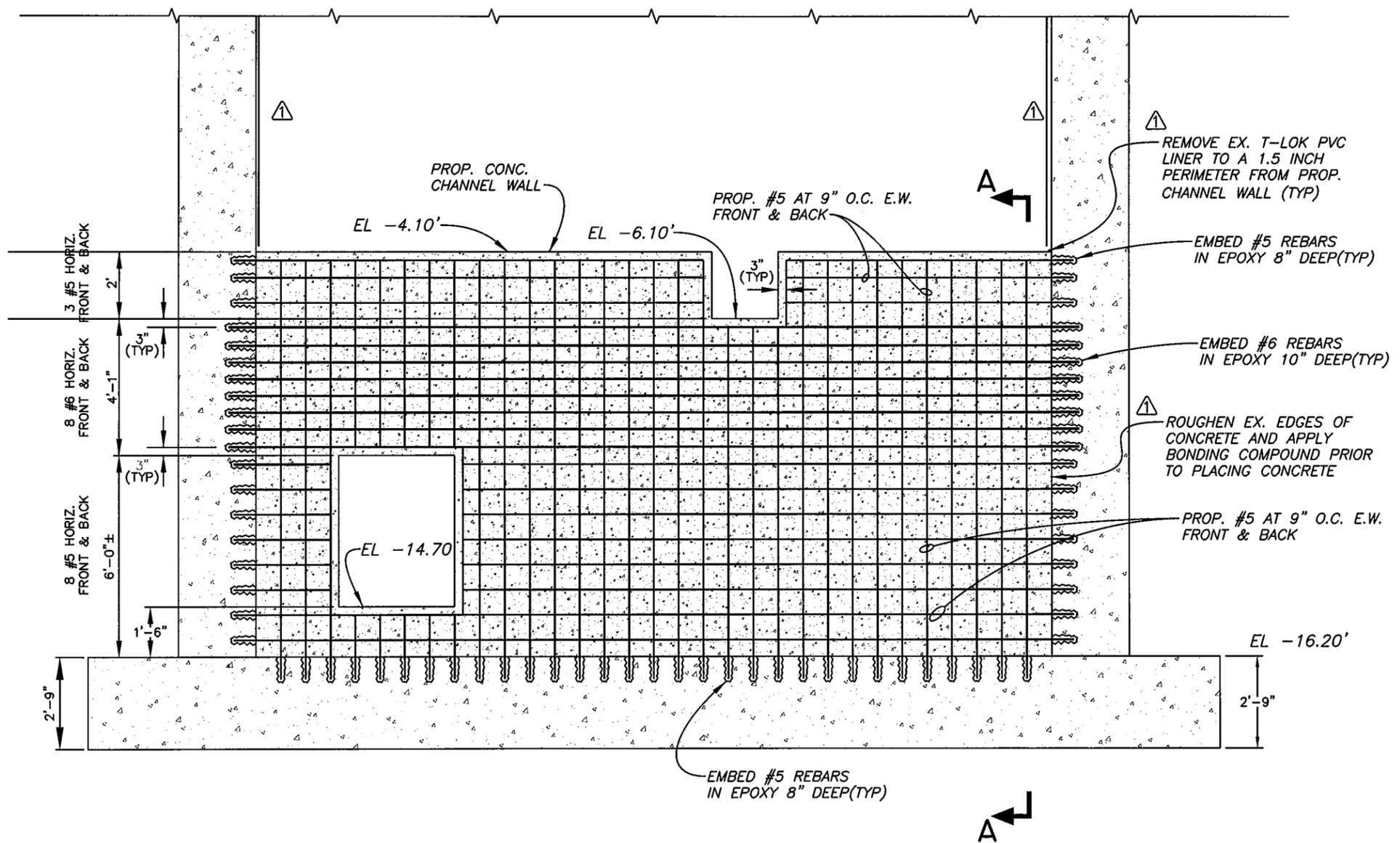
HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT
RAW SEWAGE PUMPING STATION
PROPOSED ROOF STRUCTURE DETAILS

W.O. 4506
SHEET
13

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

NOTES:

1. REFER TO SHEET 8 FOR CURVATURE OF PROPOSED CHANNEL WALL.
2. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR STEEL REINFORCING DETAILING ALL DIMENSIONS AND LAP SPLICES.
3. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR CONCRETE CHANNEL WALL LAYOUT DETAILING ALL DIMENSIONS.



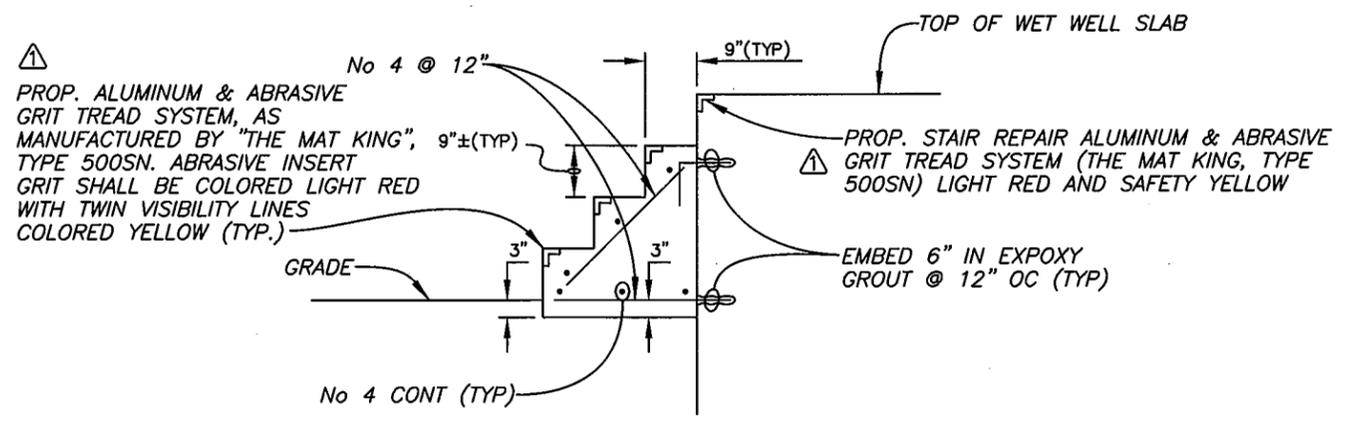
SECTION A-A
SCALE: 1/4" = 1'-0"

CONCRETE REINFORCEMENT DETAIL
SCALE: 1/4" = 1'-0"

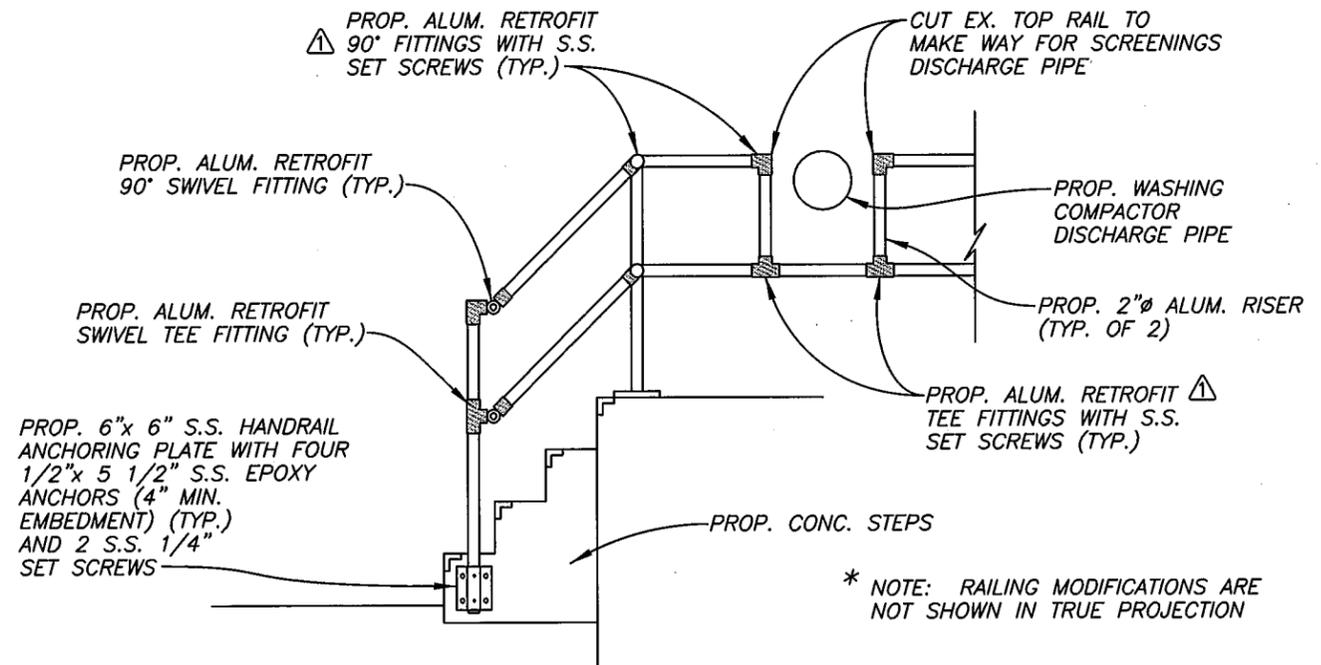
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JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	No.	DATE	REVISIONS	DES: J.H.	CITY of TAMPA HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT	HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT RAW SEWAGE PUMPING STATION CONCRETE REINFORCEMENT DETAIL	W.O. 4506
	3			DRN: BB			SHEET
	2			CKD:			14
	1	11/04/13	ADDED NOTES, REVISED WALL COVERING NOTES	DATE:			

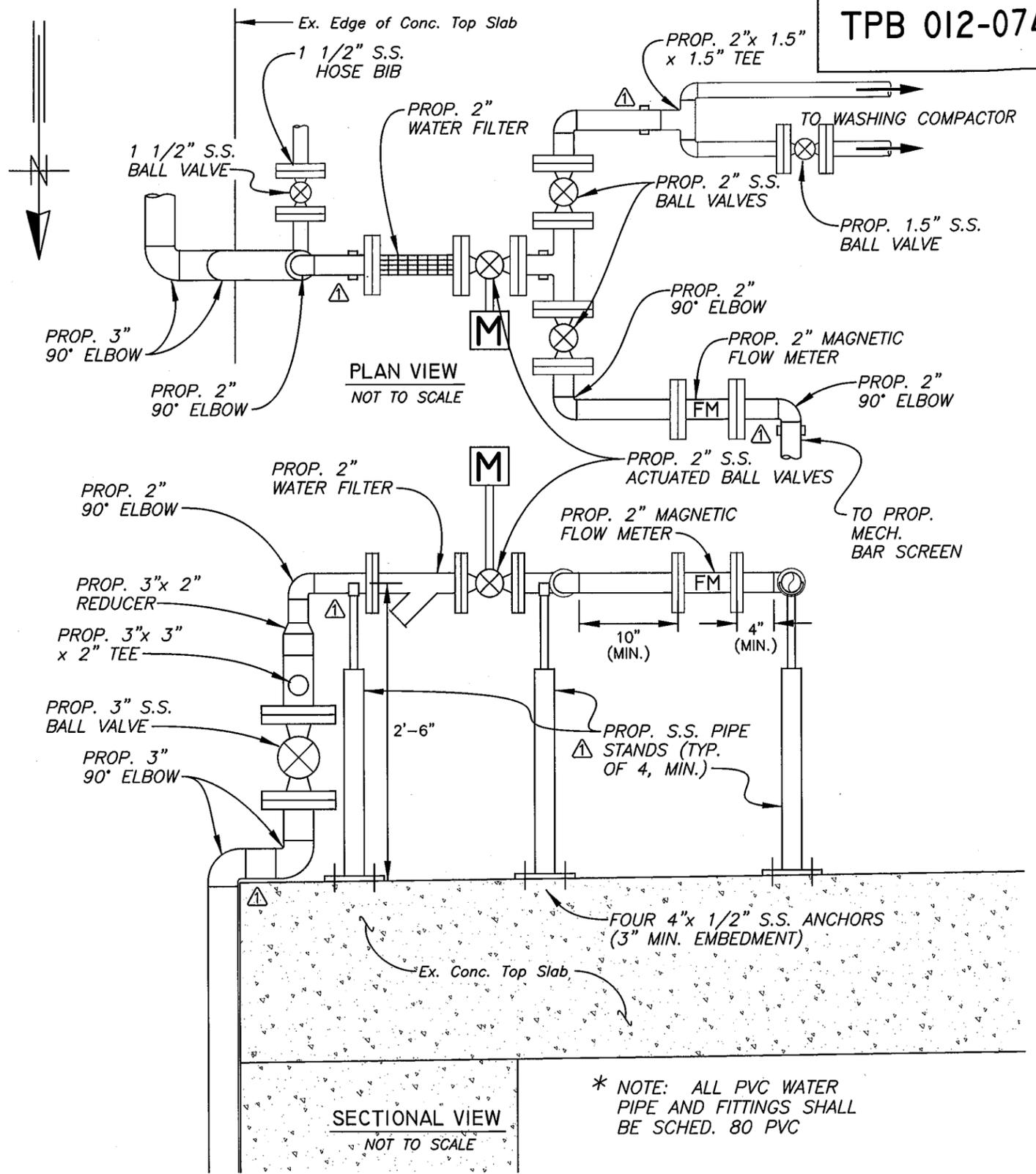
NOTE:
STEP DETAIL IS NOT IN TRUE PROJECTION
OF ACTUAL NUMBER OF STEPS REQUIRED.



CONCRETE STEP DETAIL
SCALE: 3/8" = 1'-0"



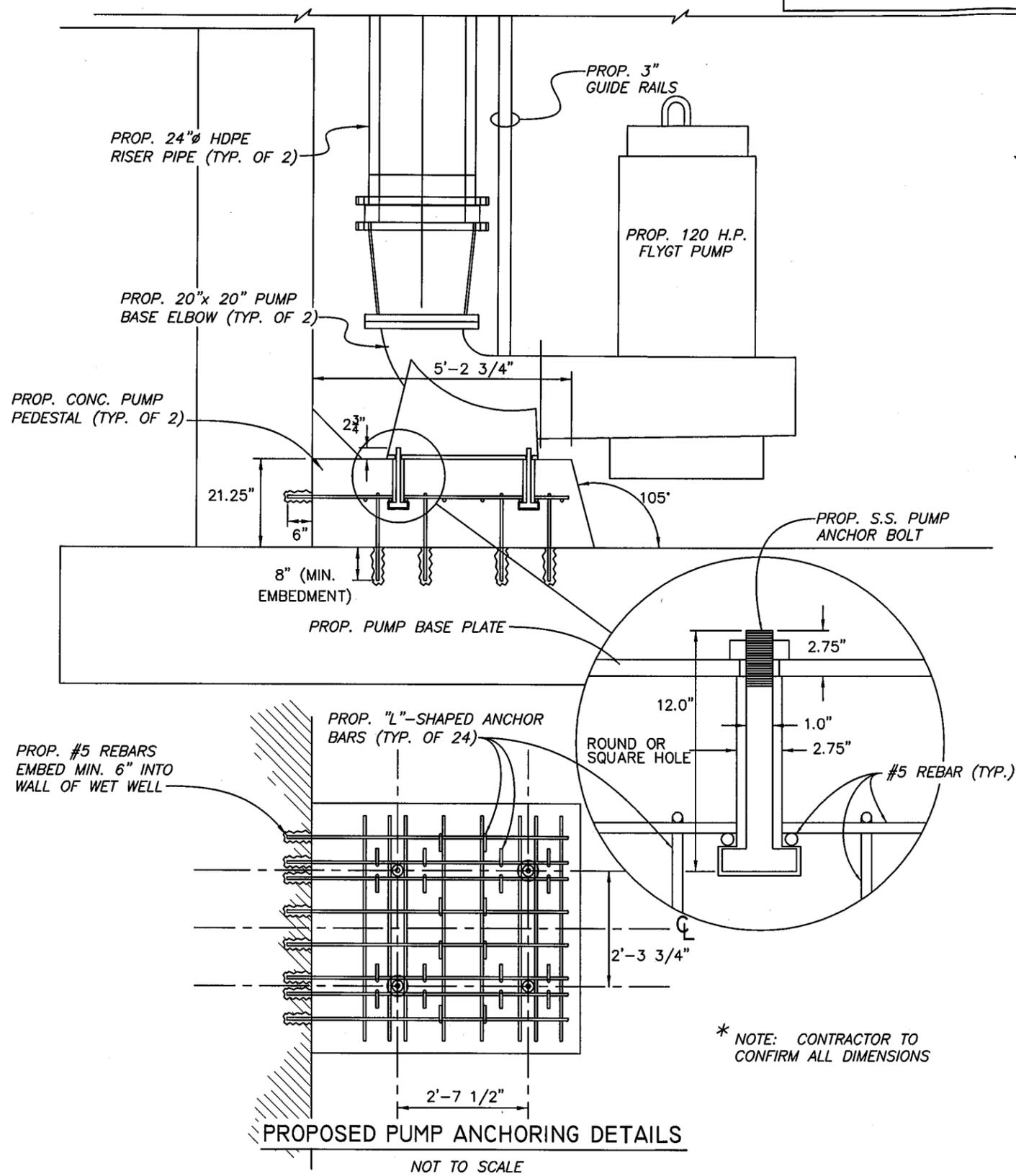
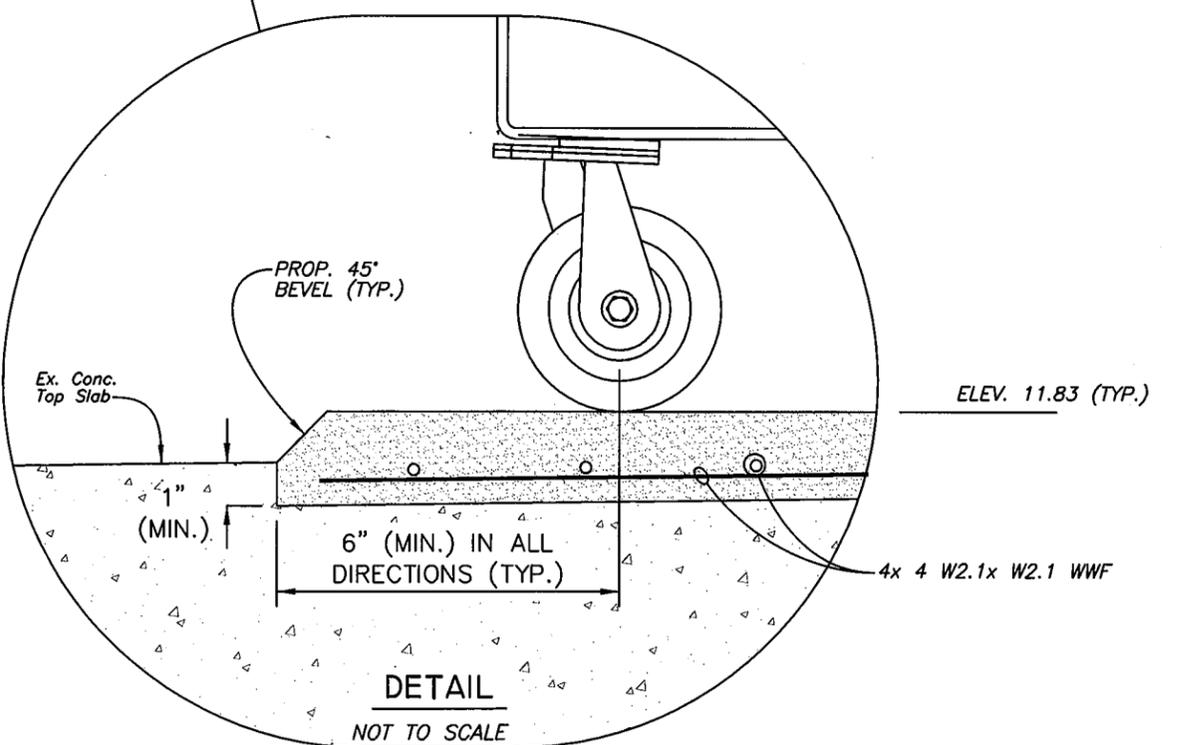
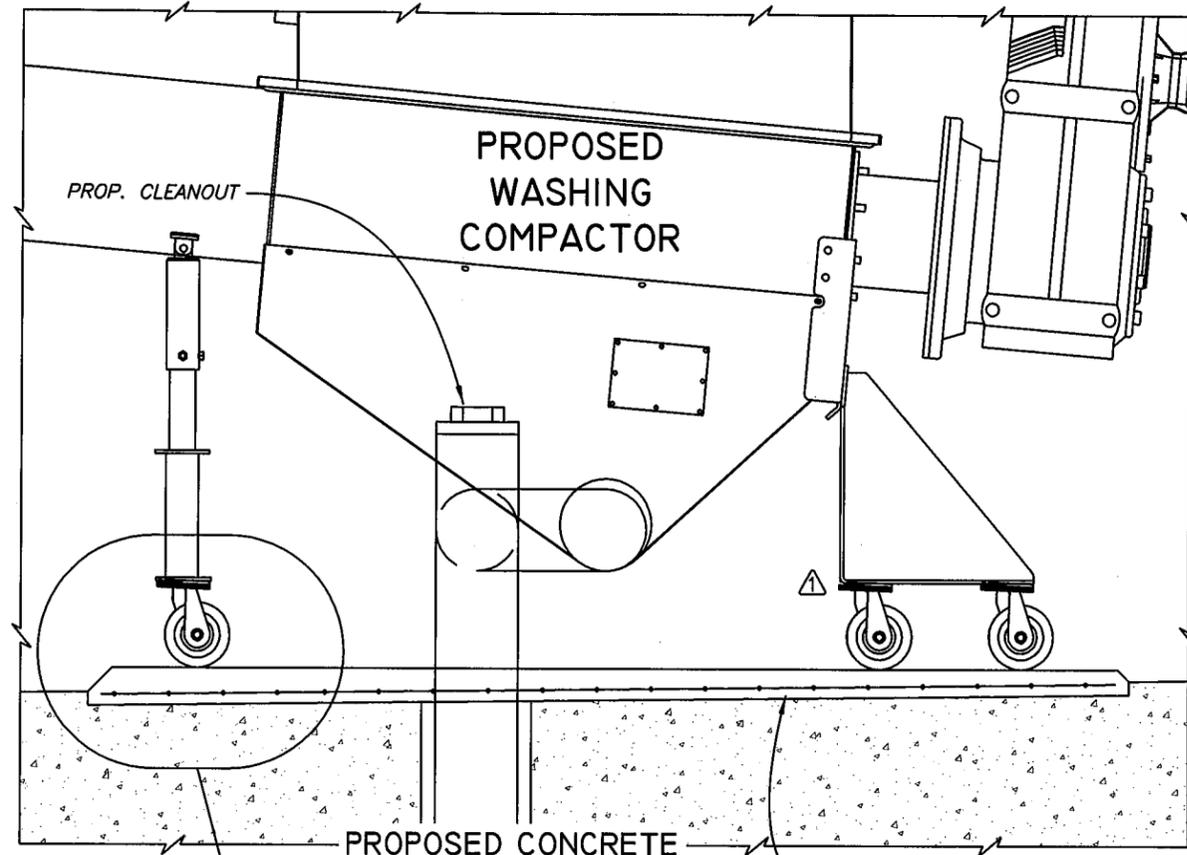
PROPOSED ALUMINUM HANDRAIL MODIFICATIONS
SCALE: 3/8" = 1'-0"



PROP. WATER SERVICE TO SCREENING EQUIPMENT
NOT TO SCALE

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JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	No.	DATE	REVISIONS	DES: J.H.	CITY of TAMPA HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT	HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT RAW SEWAGE PUMPING STATION MISCELLANEOUS DETAILS	W.O. 4506
	3			DRN: BB			SHEET
	2			CKD:			15
	11/04/13		VAR. REVISIONS TO NOTES & LINEWORK, ADDED PIPE SUPPORTS	DATE:			



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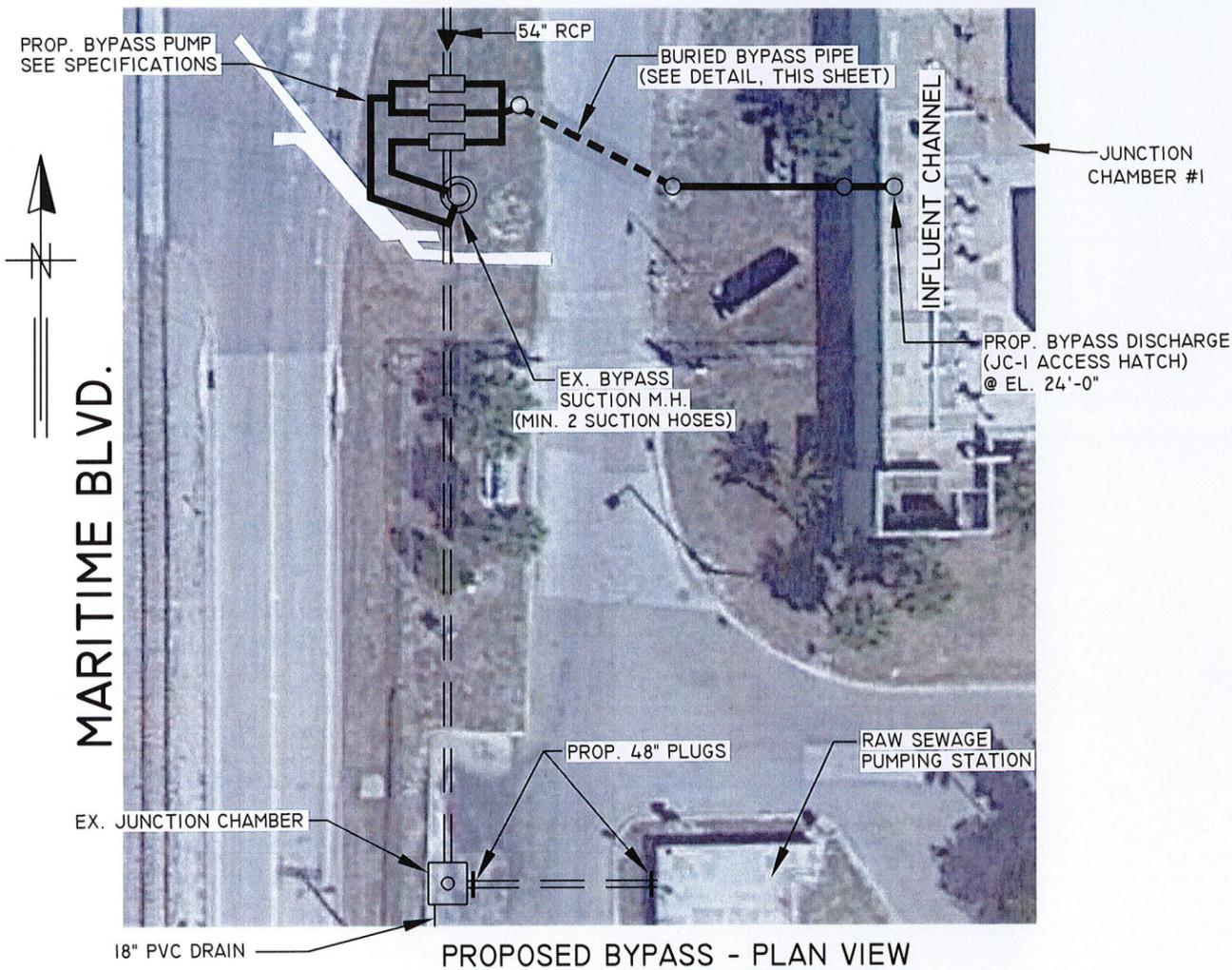
No.	DATE	REVISIONS
3		
2		
△	10/30/13	REMOVED UNWANTED LINE & REVISED LEVELING PAD NOTE

DES: J.H.
 DRN: BB
 CKD:
 DATE:

CITY of TAMPA
 HOWARD F. CURREN
 ADVANCED WASTEWATER TREATMENT PLANT

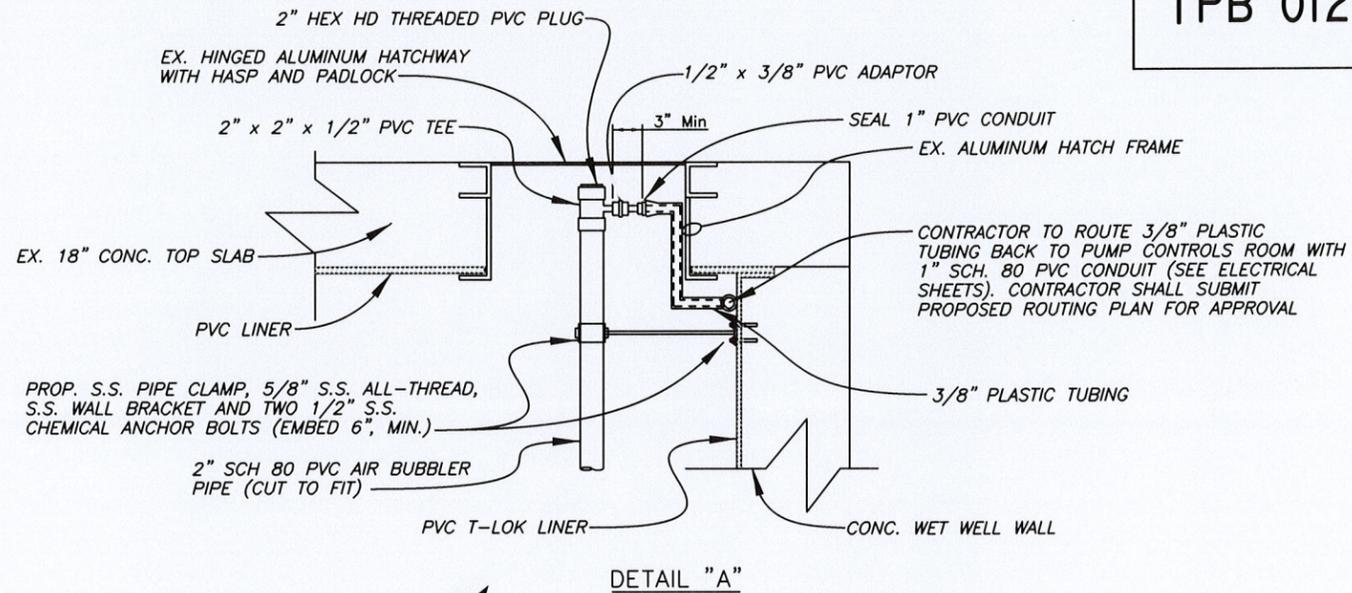
HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT
 RAW SEWAGE PUMPING STATION
 MISCELLANEOUS DETAILS

W.O. 4506
 SHEET
16



PROPOSED BYPASS - PLAN VIEW

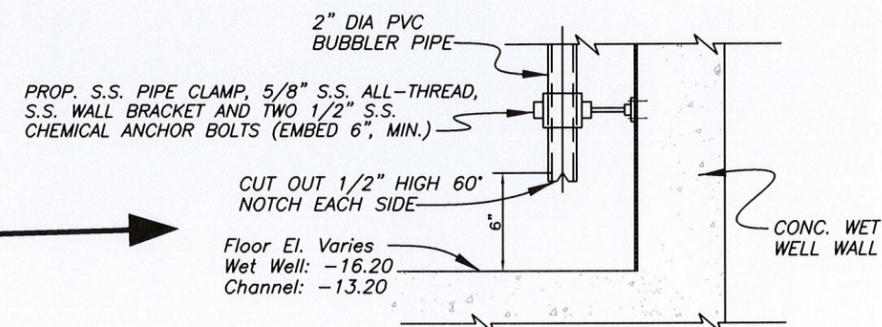
NOT TO SCALE



DETAIL "A"

NOTE:

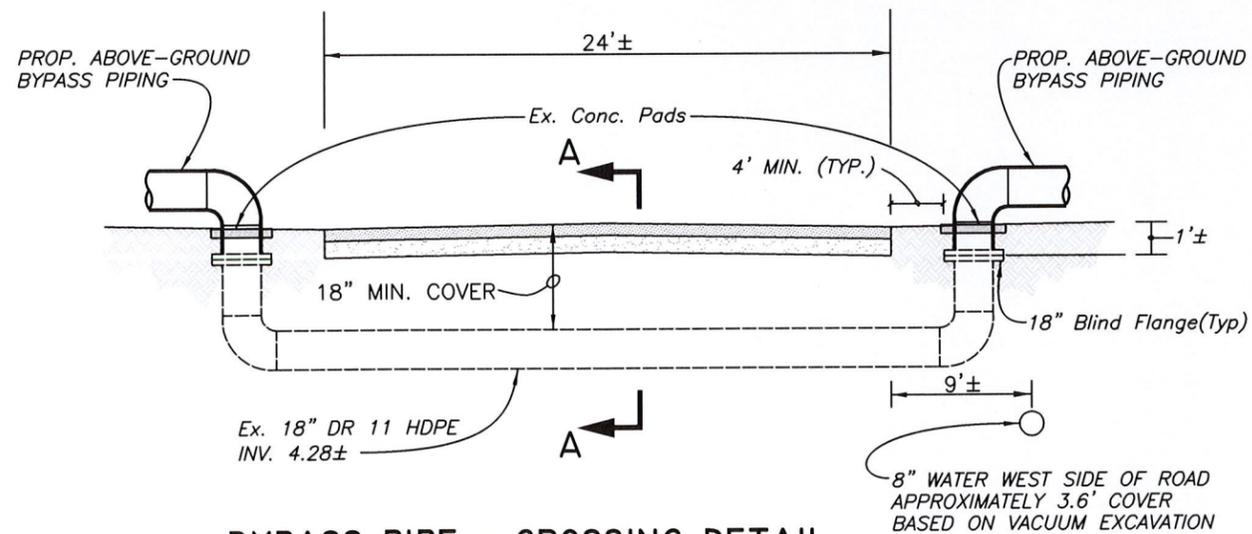
DETAILS ARE TYPICAL FOR BOTH BUBBLER TUBES. CONTRACTOR IS RESPONSIBLE FOR SUBMITTING ROUTING OF TUBING AND CONDUIT, FOR BOTH SYSTEMS, FROM THE WET WELL TO THE CONTROLS ROOM FOR APPROVAL



DETAIL "B"

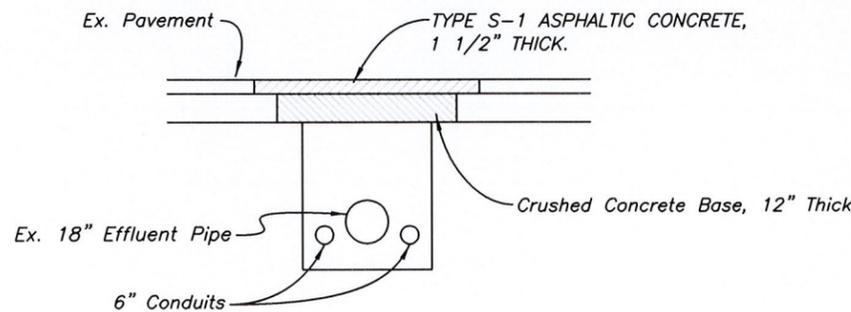
BUBBLER DETAILS

NOT TO SCALE



BYPASS PIPE - CROSSING DETAIL

NOT TO SCALE



SECTION A-A

NOT TO SCALE

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

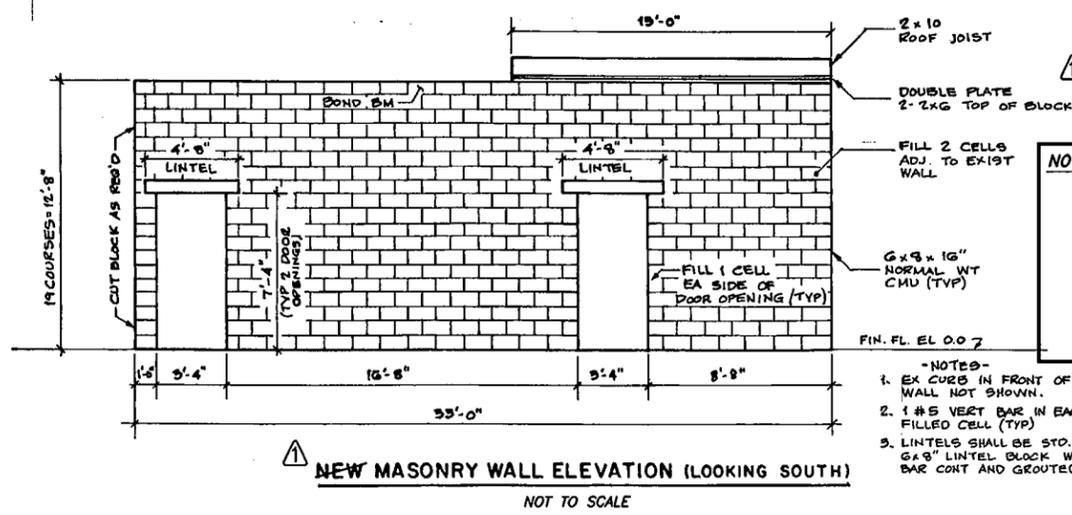
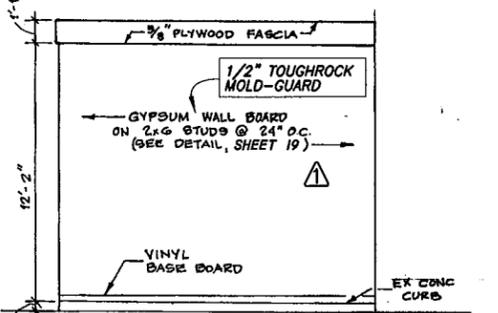
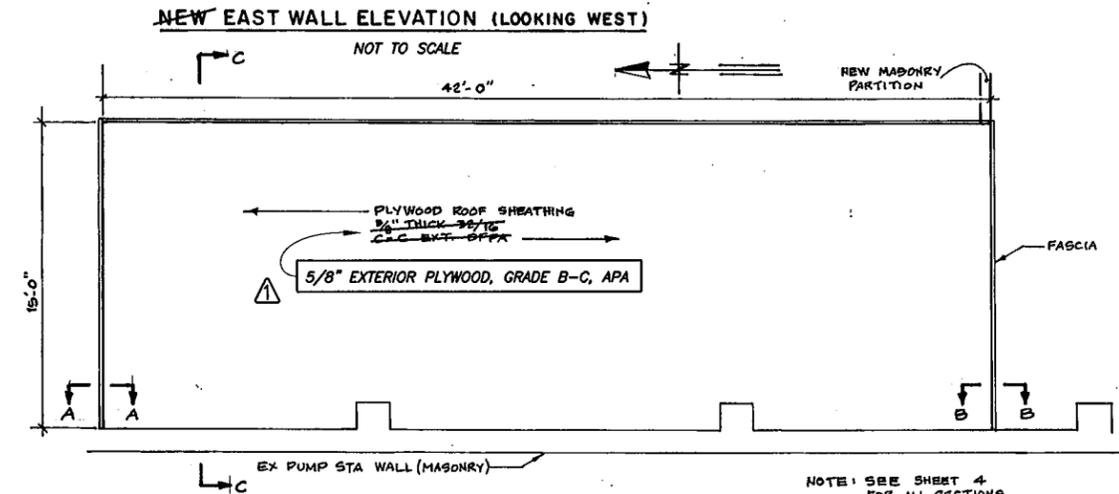
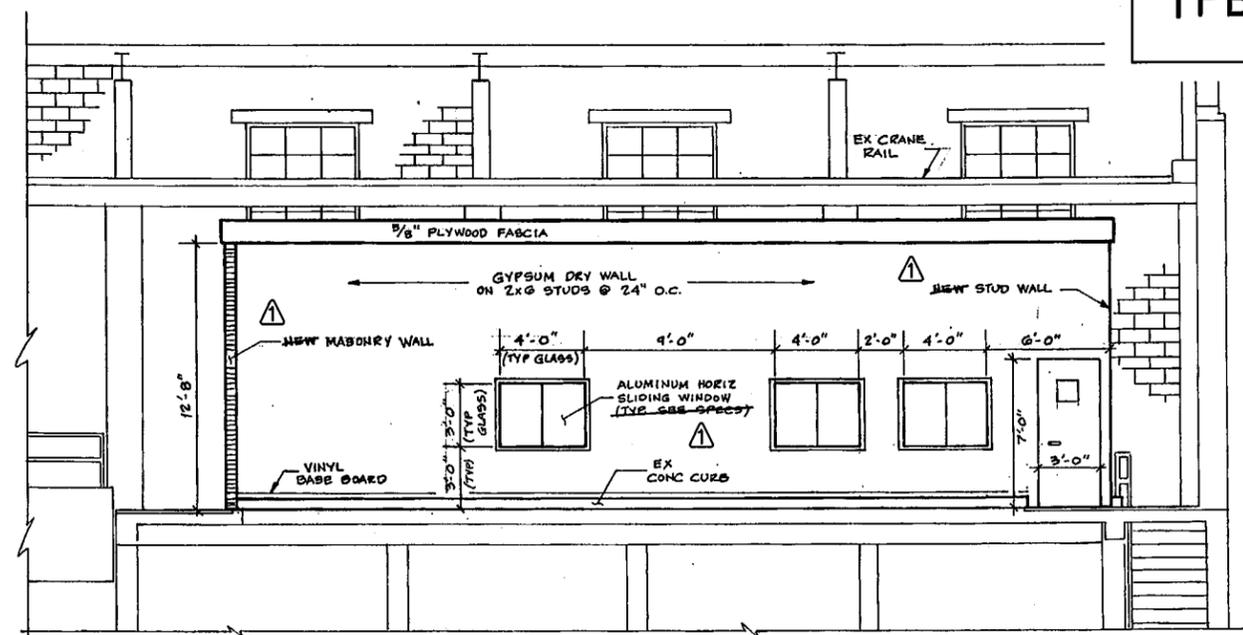
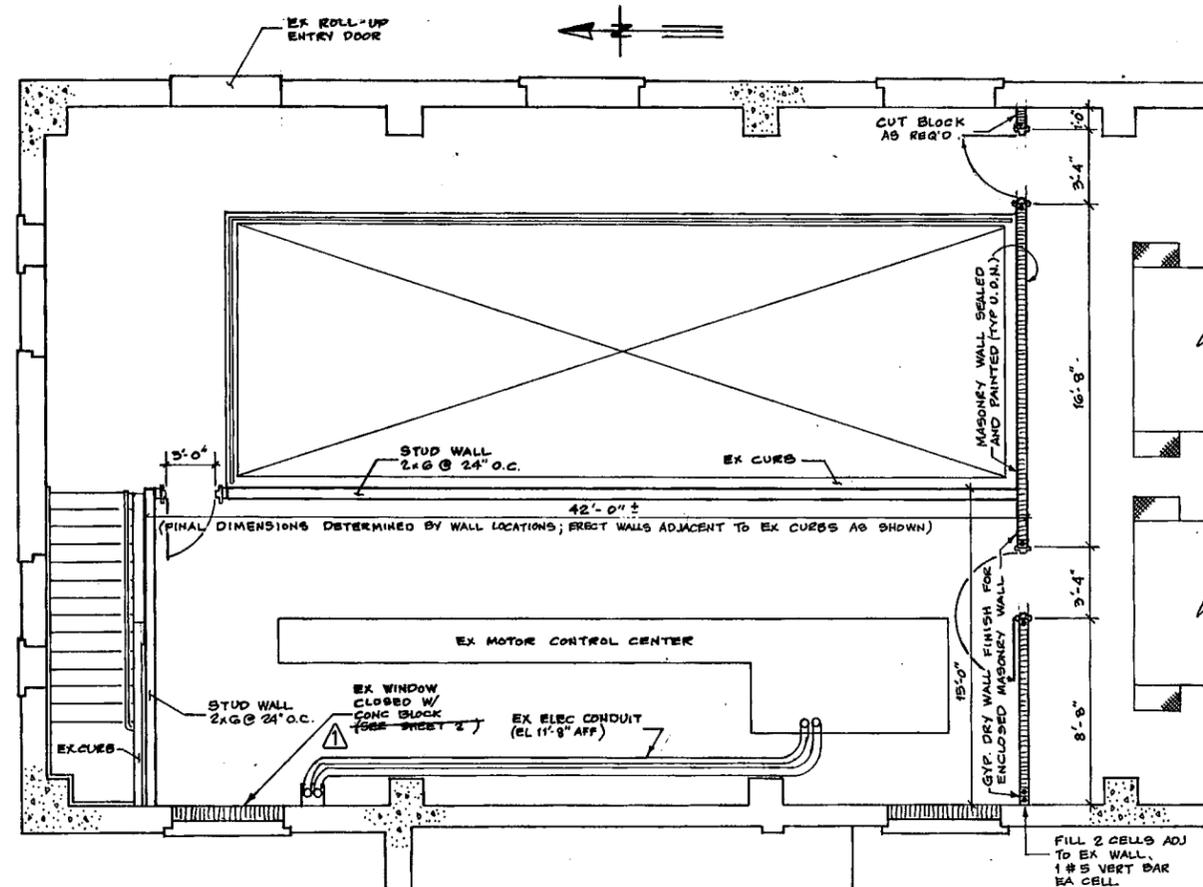
No.	DATE	REVISIONS
3		
2		
1	10/30/13	REVISED TITLE BLOCK

DES: J.H.
DRN: BB
CKD:
DATE:

CITY of TAMPA
HOWARD F. CURREN
ADVANCED WASTEWATER TREATMENT PLANT

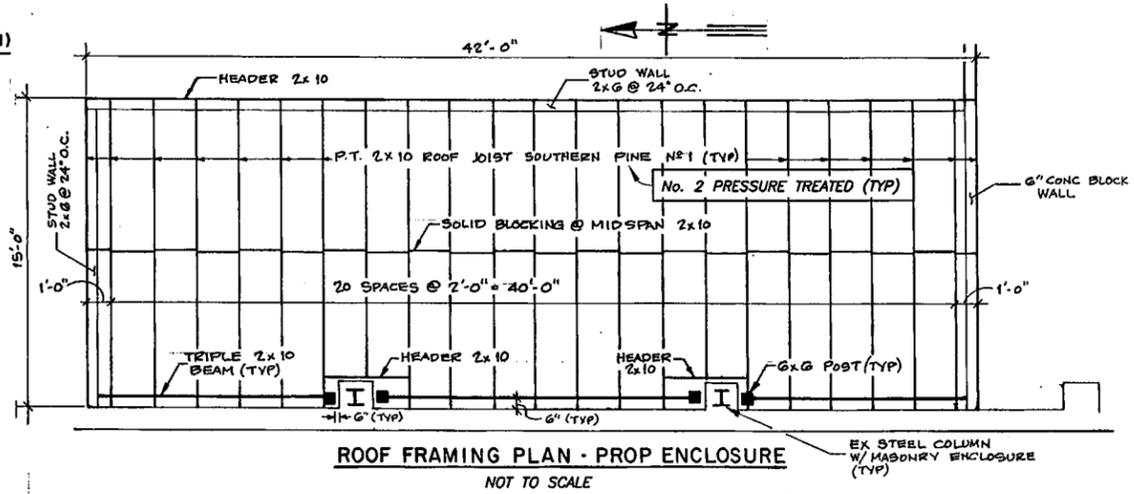
HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT
RAW SEWAGE PUMPING STATION
BYPASSING DETAILS AND BUBBLER PIPE DETAILS

W.O. 4506
SHEET
17



NOTE: FOR INFORMATIONAL PURPOSES ONLY
THIS SHEET DEPICTS EXISTING CONDITIONS OF THE ELECTRICAL CONTROL ROOM, WHICH IS LOCATED INSIDE OF THE OLD RAW SEWAGE PUMPING STATION BUILDING. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING EQUIPMENT INSIDE OF THE PUMPING STATION. CONTRACTOR SHALL RESTORE ELECTRICAL ROOM ENCLOSURE BACK TO ITS ORIGINAL CONDITION, OR BETTER.

ELECTRICAL ROOM
NOT TO SCALE



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

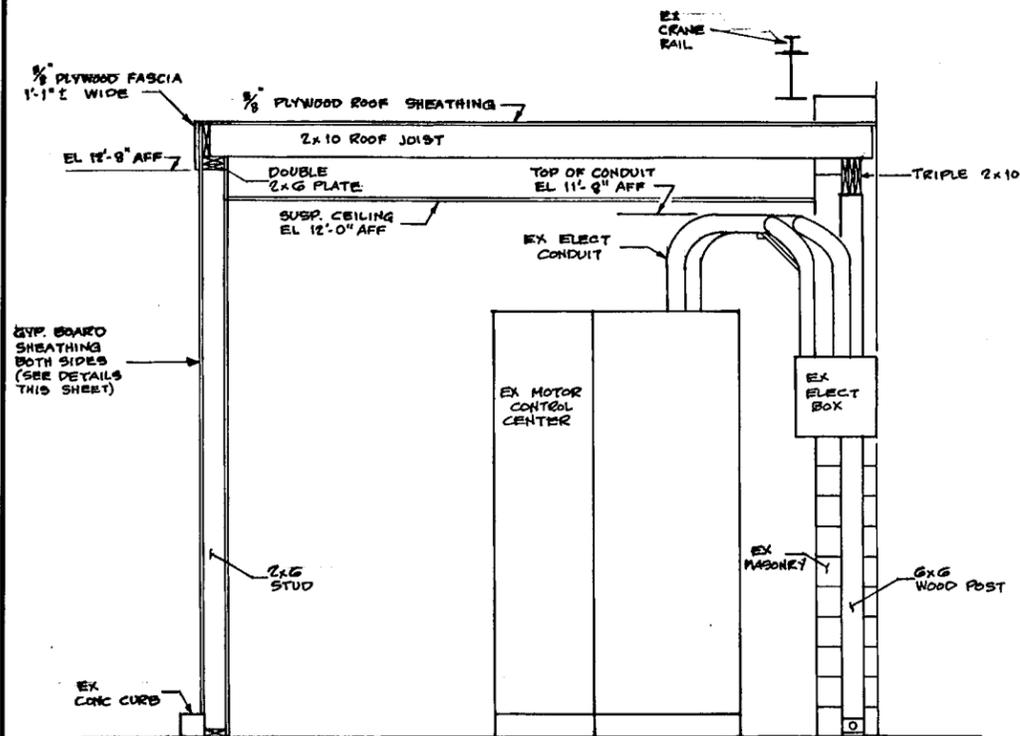
No.	DATE	REVISIONS
3		
2		
1	11/05/13	REMOVED "NEW" DESIGNATIONS, REVISED NOTE, ADDED INFORMATION

DES: J.H.
DRN: BB
CKD:
DATE:

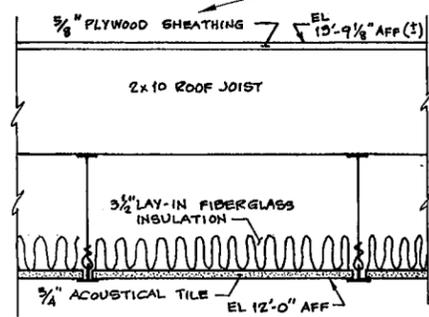
CITY of TAMPA
HOWARD F. CURREN
ADVANCED WASTEWATER TREATMENT PLANT

HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT
RAW SEWAGE PUMPING STATION
EXISTING CONDITIONS - ELECTRICAL ROOM ENCLOSURE

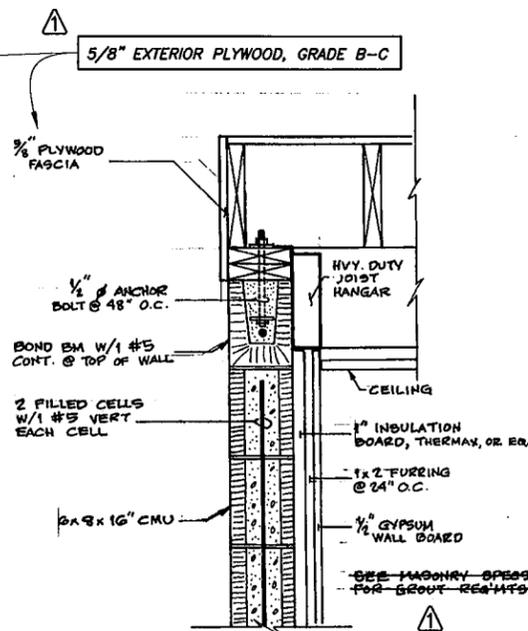
W.O. 4506
SHEET
18



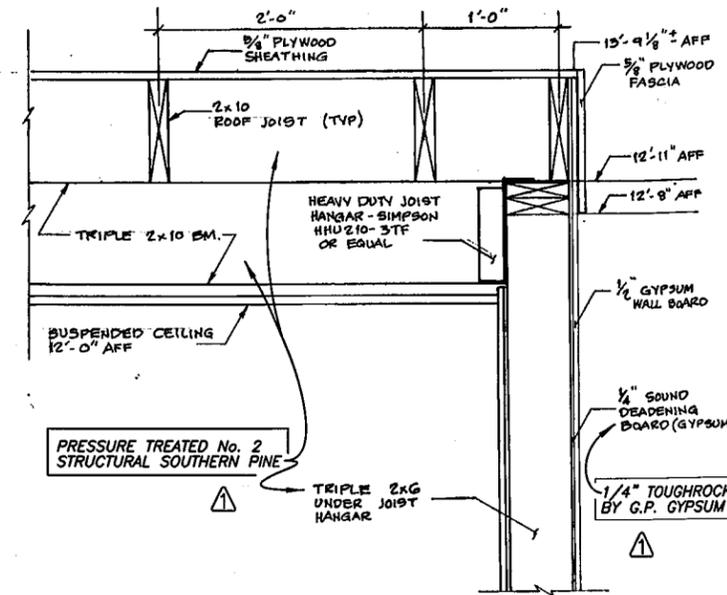
SECTION C-C
NOT TO SCALE



ROOF/CEILING DETAIL
NOT TO SCALE

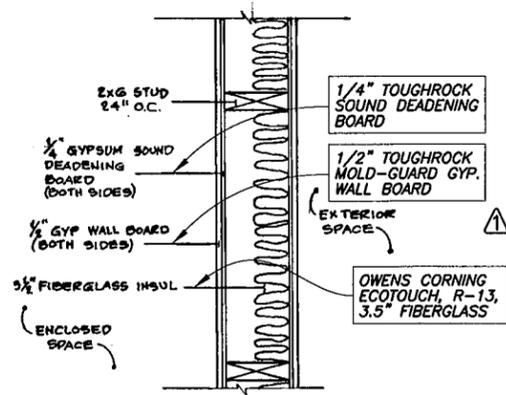


SECTION B-B
NOT TO SCALE

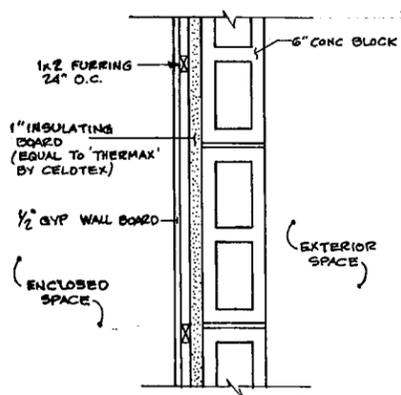


SECTION A-A
NOT TO SCALE

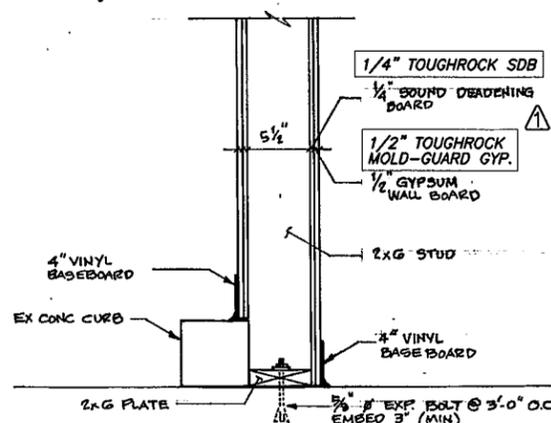
NOTE: FOR INFORMATIONAL PURPOSES ONLY
THIS SHEET DEPICTS EXISTING CONDITIONS OF THE ELECTRICAL CONTROL ROOM, WHICH IS LOCATED INSIDE OF THE OLD RAW SEWAGE PUMPING STATION BUILDING. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING EQUIPMENT INSIDE OF THE PUMPING STATION. CONTRACTOR SHALL RESTORE ELECTRICAL ROOM ENCLOSURE BACK TO ITS ORIGINAL CONDITION, OR BETTER.



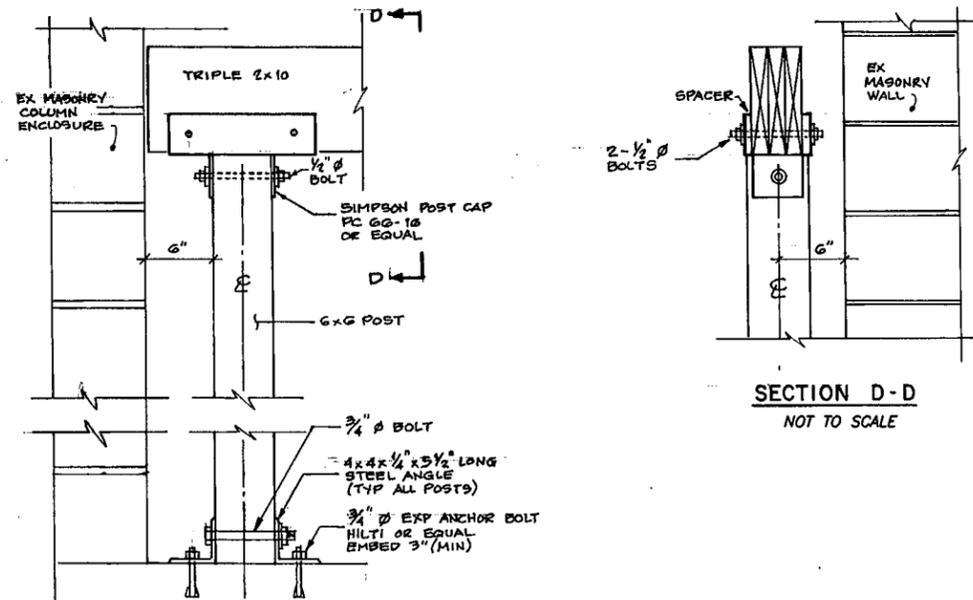
FRAME WALL DETAIL (TYP)
NOT TO SCALE



CONCRETE BLOCK WALL DETAIL
NOT TO SCALE



DETAIL - FRAME WALL ADJACENT TO EX CURB (TYP)
NOT TO SCALE



TYPICAL POST CONNECTION DETAILS
NOT TO SCALE

ELECTRICAL ROOM
NOT TO SCALE

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

No.	DATE	REVISIONS
3		
2		
1	11/05/13	REVISED NOTE, ADDED INFORMATIONAL NOTES AND TITLE BLOCK

DES: J.H.
DRN: BB
CKD:
DATE:

CITY of TAMPA
HOWARD F. CURREN
ADVANCED WASTEWATER TREATMENT PLANT

HOWARD F. CURREN ADVANCED WASTEWATER TREATMENT PLANT
RAW SEWAGE PUMPING STATION
EXISTING CONDITIONS - ELECTRICAL ROOM ENCLOSURE

W.O. 4506
SHEET
19