

# MANATEE COUNTY, FLORIDA

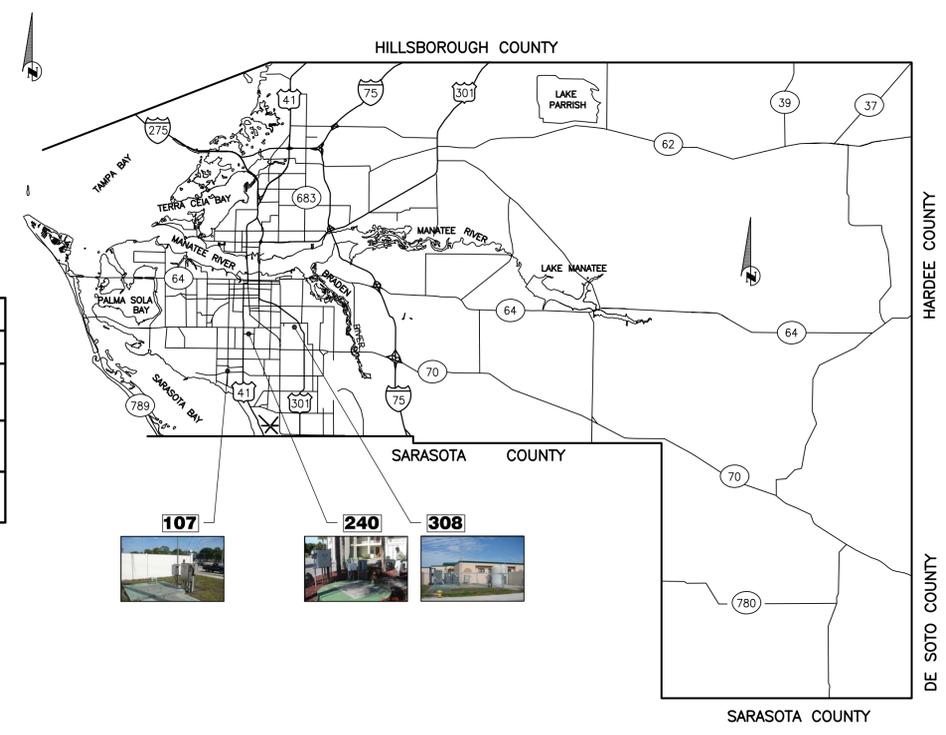
## SATELLITE LIFT STATION REHABILITATION (2008)

### PRIORITY 3

## 402-5113480, 402.5113880 & 404.6069780

SEPTEMBER 2008

SATELLITE LIFT STATION REHABILITATION (2008)			
RTU	NAME	ADDRESS	PROJECT NUMBER
240	BAYSHORE ON THE LAKE	3910 LAKE BAYSHORE DR., BRADENTON	402-5113480-LS
107	MIRROR LAKE	5900 34TH ST., BRADENTON	402-5113880-LS
308	SAMOSET #1	1801 34TH AVE. E., SAMOSET	404-6031970-LS



**NO. INDEX OF SHEETS**

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**PROJECT DESCRIPTION**

REHABILITATE THREE SEWAGE LIFT STATIONS BY REPLACING DISCHARGE PIPING AND VALVES.

F:\Projects\Sanitary Sewer - Lift Station Upgrades\Satellite Lift Station Rehabilitation (2008-75)\Priority 3\Drawn\Satellite LS Rehab (2008-75) Priority 3\_90.DWG Cover Sheet\_8/25/2008 7:57 AM Cora Boyer, L.L., ARCH D

SEC, TWP, RGE	SEE LOCATOR MAP DWG.	NOTE:	JAMES D. STOCKWELL/67198	PUBLIC WORKS DEPT.-ENGINEERING DIVISION	NO.	REVISION DESCRIPTION	BY	DATE	<b>SATELLITE LIFT STATION REHABILITATION (2008)</b>  <b>PRIORITY 3</b>  <b>COVER SHEET</b>	Sheet 1 7	
SURVEY BOOK NO. N/A		THESE PLANS DO NOT REFLECT A TRUE BOUNDARY OR RIGHTS-OF-WAY SURVEY. THE LOCATION OF THE STREET RIGHTS-OF-WAY LINES SHOWN IS APPROXIMATE AND IS BASED ON INFORMATION CONTAINED IN THE SUBDIVISION PLATS, RIGHTS-OF-WAY MAPS ON RECORD IN MANATEE COUNTY AND ON TOPOGRAPHIC DATA COLLECTED ON THE ROUTE SURVEY OF THE RIGHTS-OF-WAY. CONSEQUENTLY THE RIGHTS-OF-WAY LINES SHOWN ARE NOT INTENDED TO INDICATE THE EXACT PROPERTY CORNERS.	Engineer / Reg. No.								
PROJECT NUMBER 402-5113480, 402-5113880 & 404-6069780			Signature & Date		4422-B 66th Street West, Bradenton, FL 34210						
By	Checked		Date								
Surveyed	N/A		N/A		N/A						
Drawn	CB	JDS	08/15/08								
Designed	CB/JM/JDS	JM/WRT/JDS	09/02/08								

GENERAL			
1.	ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE PROJECT MANAGEMENT DIVISION. THE PROJECT MANAGER IS: SAL BORDONARO AND CAN BE REACHED AT (941) 708-7450; EXT. 7341	30.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL DAMAGED STORM WATER STRUCTURES, PIPING, ENTRANCE PIPE AND HEADWALLS WHETHER SHOWN ON THE PLANS OR NOT. THE HEADWALLS SHALL BE REPLACED IN ACCORDANCE WITH F.D.O.T. STANDARDS.
2.	SITE VISITS ARE MANDATORY FOR ALL BIDDERS. THESE SITE VISITS CAN BE ARRANGED THROUGH THE PROJECT MANAGER .	31.	IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH IN THE FIELD THE RIGHT-OF-WAY LINES, BASE LINES, BENCH MARKS (ELEV.), CENTER LINES, AND STATIONING AS REQUIRED TO CONSTRUCT THIS PROJECT.
3.	ALL CONSTRUCTION ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF MANATEE COUNTY UTILITY AND TRANSPORTATION STANDARDS AND/OR FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" UNLESS OTHERWISE INDICATED ON THE PLANS.	32.	THE CONTRACTOR SHALL COORDINATE THE CUTTING OF DRIVEWAYS WITH THE PROPERTY OWNER PRIOR TO CUT. ALL DRIVEWAYS WILL BE IN PASSABLE CONDITION AT THE END OF THE WORK DAY.
4.	VERTICAL CONTROL FOR THIS PROJECT WAS ESTABLISHED BY A MINIMUM OF TWO REFERENCE BENCHMARKS DESCRIBED ON THE "THE NATIONAL GEODETIC VERTICAL DATUM OF 1929", (NGVD '29).	33.	A RIGHT OF ENTRY AGREEMENT SHALL BE OBTAINED BY THE PROJECT MANAGER FROM THE PROPERTY OWNER BEFORE ANY DRIVEWAY CONSTRUCTION WORK IS DONE OUTSIDE OF THE RIGHT-OF-WAY OR EASEMENT.
5.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL CONDITIONS AND REQUIREMENTS OF ALL PERMITS AND ALL GOVERNING FEDERAL, STATE, AND LOCAL AGENCIES. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS THAT ARE NOT PROVIDED IN THE BID DOCUMENTS, AT NO ADDITIONAL COST TO THE OWNER.	<b>UTILITIES</b>	
6.	THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATION THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED.	34.	LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THERE MAY BE OTHER IMPROVEMENTS, UTILITIES, ETC. WHICH ARE WITHIN THE PROJECT AREA AND WHICH HAVE NOT BEEN LOCATED OR IDENTIFIED, MAY NOT BE IN THE EXACT LOCATION SHOWN OR RELOCATED SINCE THE PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES STRUCTURES AND OTHER FEATURES (WHETHER OR NOT SHOWN ON THE PLANS) THAT MAY AFFECT HIS WORK. ALL EXISTING UTILITIES TO BE EXTENDED, CROSSED OR CONNECTION POINTS SHALL BE EXPOSED PRIOR TO CONSTRUCTION TO VERIFY LOCATION AND ELEVATION. ANY DISCREPANCIES OR CONFLICTS FOUND SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR RESOLUTION.
7.	THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS ON THE PLANS AND REVIEW ALL FIELD CONDITIONS THAT MAY AFFECT CONSTRUCTION. SHOULD DISCREPANCIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO OBTAIN THE ENGINEER'S CLARIFICATION BEFORE COMMENCING WITH CONSTRUCTION.	35.	THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, WATER AND SEWER LINES, STORM DRAINS, UTILITIES, DRIVEWAYS, SIDEWALKS, SIGNS, MAIL BOXES, FENCES, TREES, LANDSCAPING, AND ANY OTHER IMPROVEMENT OR FACILITY IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DAMAGED ITEM DUE TO HIS CONSTRUCTION ACTIVITIES TO EQUAL OR BETTER THAN PRE-CONSTRUCTION CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
8.	AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE CALL OF FLORIDA AT 1-800-432-4770 OR THE NATIONAL 811 ONE CALL NUMBER WHEN APPLICABLE FOR UTILITY LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL UTILITIES FOR THE POSSIBLE RELOCATION OR THE TEMPORARY MOVEMENT OF ANY EXISTING UTILITIES WITHIN THE RIGHTS-OF-WAY.	36.	THE CONTRACTOR SHALL USE APPROPRIATE TECHNIQUES, AS APPROVED, RECOMMENDED OR OFFERED BY FLORIDA POWER AND LIGHT TO PREVENT UNDERMINING OF POWER POLES DURING CONSTRUCTION. IF HOLDING OF POWER POLES IS RECOMMENDED OR REQUIRED BY THE UTILITY, THE CONTRACTOR SHALL COORDINATE THIS ACTIVITY WITH THE UTILITY AND BEAR ALL RELATED COSTS.
9.	NO WORK, EXCEPT FOR EMERGENCY TYPE, SHALL BE PERFORMED AFTER 7:00 PM AND BEFORE 7:00 AM. FOR ADDITIONAL PROJECT RESTRAINTS, REFER TO SECTION 01310 OF THE SPECIFICATIONS.	37.	ANY TEMPORARY SHUTDOWNS FOR MODIFICATIONS OF EXISTING UTILITY SYSTEMS THAT MUST REMAIN IN SERVICE DURING CONSTRUCTION SHALL BE COORDINATED WITH AND APPROVED BY THE MANATEE COUNTY UTILITY OPERATIONS DEPARTMENT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. IT IS NOTED THAT TEMPORARY SHUTDOWNS MAY BE RESTRICTED TO CERTAIN HOURS AT ANY TIME OF THE DAY OR NIGHT AND WILL BE COMPLETED AT NO ADDITIONAL COST TO THE OWNER.
<b>SAFETY</b>			
10.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE FLORIDA TRENCH SAFETY ACT, 90-96, LAWS OF FLORIDA EFFECTIVE OCTOBER 1, 1990 AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION EXCAVATION SAFETY STANDARDS, 29 CFR 1926.650, SUBPART P, AS AMENDED. THE CONTRACTOR SHALL INCLUDE IN THE TOTAL BID PRICE ALL COSTS FOR COMPLIANCE WITH THESE REGULATIONS.	38.	FOR WORK BEING DONE ON EXISTING SANITARY SEWER LINES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE FLOW OF ALL SEWAGE DURING CONSTRUCTION, WHICH MAY REQUIRE BY-PASS PUMPING AND/OR PUMPER TRUCKS. THE CONTRACTOR SHALL SUBMIT A DETAIL BY-PASS PUMPING PLAN TO THE PROJECT MANAGER FOR REVIEW AND APPROVAL. THE BY-PASS PUMPING PLAN SHALL DESCRIBE THE METHOD, EQUIPMENT AND TIME SEQUENCE FOR THE BY-PASS PUMPING, AND THE EMERGENCY PROCEDURES TO BE IMPLEMENTED BY THE CONTRACTOR IN CASE OF ANY SEWAGE SPILLS OR FLOW STOPPAGES. THE CONTRACTOR SHALL NOT PROCEED WITH ANY BY-PASS PUMPING UNTIL THE PLAN IS APPROVED BY THE PROJECT MANAGER. ALL ASSOCIATED COSTS SHALL BE INCLUDED IN THE BID PRICE OF THE RELEVANT BID ITEM.
11.	THE CONTRACTOR SHALL USE SHEET PILING, SHEETING, BRACING, ETC., AS REQUIRED IN ALL EXCAVATION AREAS AND CONFORM TO ALL OSHA REQUIREMENTS.	<b>RESTORATION</b>	
12.	THE CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND UTILITIES, POWER LINES, ETC.	39.	ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES UNLESS SHOWN OTHERWISE.
13.	THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THIS EXCLUSION DOES NOT ALLEVIATE THE CONTRACTOR FOR PROVIDING A CONTINUOUS SAFE WORKSPACE.	40.	ALL DISTURBED GRASSED AREAS SHALL BE SODDED OR SEEDED UNLESS OTHERWISE INDICATED. THE TYPE OF SOD USED TO REPLACE OWNER MAINTAINED AREAS IN RIGHT-OF-WAY SHALL BE COORDINATED WITH THE PROPERTY OWNER.
<b>ENVIRONMENTAL</b>			
14.	WHEN A BENTONITE SPILL OR FRACK-OUT OCCURS OR THERE IS A LOSS OF RETURN INDICATING EXCESSIVE SEEPAGE OR LOSS OF DRILLING FLUID, DRILLING MUST BE STOPPED UNTIL THE LOCATION OF THE SPILL IS IDENTIFIED. UNDER NO CIRCUMSTANCES WILL DRILLING CONTINUE WHEN A SPILL IS APPARENT.	41.	ALL CONCRETE THRUST BLOCKS INSTALLED FOR TESTING PURPOSES AND NOT REQUIRED FOR THE OPERATION OF THE PIPELINE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR, PRIOR TO FINAL ACCEPTANCE, AT NO ADDITIONAL COST TO THE OWNER.
15.	ONCE LOCATED, THE BENTONITE SPILL MUST BE ISOLATED AND SEEPAGE INTO ANY NEARBY WATER BODIES WILL BE BLOCKED.	42.	ASPHALT DRIVES THAT ARE CUT SHALL BE RESTORED UTILIZING THE SAME MATERIAL AS EXISTING BASE WITH MINIMUM SIX INCH THICKNESS, COMPACTED AND PRIMED. ASPHALT WEARING SURFACE TO MATCH EXISTING THICKNESS WITH MINIMUM ONE INCH THICKNESS.
16.	DEPENDING ON THE DEGREE OF THE SPILL, THE ISOLATED BENTONITE MUST BE REMOVED MANUALLY OR MECHANICALLY AND DISPOSED OF BY APPROPRIATE MEANS OR REUSED.	43.	CONCRETE DRIVEWAYS THAT ARE CUT SHALL BE RESTORED WITH SIX INCHES OF 3,000 PSI CONCRETE WITH W2.5 X W2.5, 6X6 WIRE MESH, PLACE 1/2 INCH EXPANSION JOINT BETWEEN BACK OF CURB AND NEW CONCRETE. EXISTING CRACKS IN DRIVEWAYS ARE TO BE DOCUMENTED AS PRE-EXISTING. AREA BENEATH PATCH SHALL BE MECHANICALLY TAMPED PRIOR TO PLACING CONCRETE.
17.	ALL EROSION AND SILTATION CONTROL METHODS SHALL BE IMPLEMENTED PRIOR TO THE START OF CONSTRUCTION.	44.	CONCRETE SIDEWALKS ACROSS DRIVEWAYS THAT ARE CUT SHALL ALSO BE RESTORED WITH SIX INCHES OF 3,000 PSI CONCRETE. CONCRETE SIDEWALKS OUTSIDE OF DRIVEWAY AREAS THAT ARE CUT SHALL BE RESTORED ACCORDING TO THE CURRENT EDITIONS OF THE F.D.O.T. SPECIFICATIONS FOR ROAD AND BRIDGE DESIGN, SECTION 522, AND SECTION 310 OF THE F.D.O.T. DESIGN STANDARDS.
18.	THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY STORM WATER, EROSION, AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE FDEP "FLORIDA STORM WATER, EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL". IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTROL AND PREVENT EROSION AND TRANSPORT OF SEDIMENT TO SURFACE DRAINS AND TO DITCHES DURING CONSTRUCTION.	45.	WHENEVER A PERMANENT ROADWAY SURFACE IS NOT PLACED IMMEDIATELY AFTER BACKFILLING AND COMPACTION OF THE NEWLY INSTALLED PIPE LINE IN AREAS WHERE TRAFFIC MUST PASS, THE CONTRACTOR SHALL INSTALL A TEMPORARY SURFACE CONSISTING OF NINE INCHES OF COMPACTED LIME ROCK BASE AND A COAT OF ASPHALT EMULSION. PERMANENT ROADWAY REPAIR SHALL BE PERFORMED A MAXIMUM OF TWENTY-ONE CALENDAR DAYS AFTER THE INITIAL OPEN CUTTING.
19.	STOCKPILES SHALL BE PROTECTED AT ALL TIMES BY ON-SITE DRAINAGE CONTROLS WHICH PREVENT EROSION OF THE STOCKPILED MATERIAL. CONTROL OF DUST FROM SUCH STOCKPILES IS REQUIRED, DEPENDING UPON THEIR LOCATION AND THE EXPECTED LENGTH OF TIME THE STOCKPILES WILL BE PRESENT. IN NO CASE SHALL ANY STOCKPILED MATERIAL REMAIN AFTER THIRTY (30) CALENDAR DAYS.	46.	RESTORATION OF CURBS, DRIVEWAYS, SIDEWALKS, AND PLACEMENT OF SOD SHALL BE COMPLETED WITHIN FORTY-FIVE CALENDAR DAYS OF INITIAL DISTURBANCE, OR TWENTY-ONE CALENDAR DAYS OF SUBSTANTIAL COMPLETION, WHICHEVER OCCURS FIRST.
20.	STORM WATER INLETS IN THE VICINITY OF THE PROJECT SHALL BE PROTECTED BY SEDIMENT TRAPS SUCH AS SECURED HAY BALES, SOD, STONE, ETC., WHICH SHALL BE MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS, AND WHICH MUST BE APPROVED BY THE ENGINEER BEFORE INSTALLATION. THIS WILL BE MAINTAINED TO PREVENT DEGRADATION OF THE WATERS OF THE COUNTY AND STATE.	<b>CONSTRUCTION</b>	
21.	SEDIMENT BASINS AND TRAPS, PERIMETER BERMS, SEDIMENT BARRIERS, VEGETATIVE BUFFERS, AND OTHER MEASURES INTENDED TO TRAP SEDIMENT AND/OR PREVENT THE TRANSPORT OF SEDIMENT ON ADJACENT PROPERTIES, OR INTO EXISTING BODIES OF WATER, MUST BE INSTALLED, CONSTRUCTED, OR IN THE CASE OF VEGETATIVE BUFFERS, PROTECTED FROM DISTURBANCE, AS A FIRST STEP IN THE LAND ALTERATION PROCESS. SUCH SYSTEMS SHALL BE FULLY OPERATIVE BEFORE ANY OTHER DISTURBANCE OF THE SITE BEGINS. EARTHEN STRUCTURES INCLUDING BUT NOT LIMITED TO BERMS, EARTH FILTERS, DAMS OR DIKES SHALL BE STABILIZED AND PROTECTED FROM DRAINAGE DAMAGE OR EROSION WITHIN ONE (1) WEEK OF INSTALLATION.	47.	THE EXHAUST SYSTEM OF ALL GASOLINE AND DIESEL ENGINES SHALL BE EQUIPPED WITH MUFFLERS THAT MEET THE EQUIPMENT MANUFACTURER'S REQUIREMENTS FOR NOISE SUPPRESSION. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER DUE TO RESIDENTIAL COMPLAINTS, INSTALL NOISE ABATEMENT BAFFELS POSITIONED TO BREAK LINE-OF-SITE FROM THE NOISE SOURCE TO AFFECTED RESIDENCES, AS APPROVED BY THE ENGINEER.
22.	ALL SWALES, DITCHES, AND CHANNELS LEADING FROM THE SITE SHALL BE PROTECTED FROM SILTATION AND EROSION DURING CONSTRUCTION AND BE SODDED WITHIN THREE (3) DAYS OF EXCAVATION.	48.	NO MATERIAL SHALL BE STOCKPILED IN ROADWAYS. ALL DIRT AND DEBRIS SHALL BE REMOVED FROM THE JOB SITE DAILY. ROADS SHALL BE SWEEP DAILY AS PART OF DAILY CLEAN UP.
23.	SOIL DISPLACED BY CONSTRUCTION WILL BE REMOVED. EROSION CONTROL SHALL BE IMPLEMENTED IN AREAS WHICH ARE CONSIDERED ENVIRONMENTALLY SENSITIVE. EROSION CONTROL SYSTEMS SHALL BE REQUIRED FOR ALL WORK WITHIN JURISDICTIONAL AREAS. THESE SYSTEMS MAY INCLUDE STAKED HAY BALES, SILT SCREENS, FILTER FABRIC, AND TURBIDITY SCREENS.	49.	THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS REQUIRED.
24.	ALL EROSION AND POLLUTION CONTROL DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER EACH RAINFALL AND SHALL BE CLEANED OUT AND/OR REPAIRED AS REQUIRED.	50.	INGRESS AND EGRESS TO ALL THE PROPERTIES IN THE CONSTRUCTION AREA SHALL BE MAINTAINED AT ALL TIMES.
25.	THE CONTRACTOR SHALL NOT ENTER UPON OR IN ANY WAY ALTER WETLAND AREAS THAT MAY BE ON OR NEAR THE CONSTRUCTION SITE. ALL WORK IN THE VICINITY OF OPEN WATER AND/OR WETLANDS IS TO BE PERFORMED IN COMPLIANCE WITH THE ENVIRONMENTAL REGULATIONS AND/OR PERMITS FOR THE SITE. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY FINES RESULTING FROM HIS VIOLATION OF ANY REGULATIONS OR PERMIT CONDITIONS.	51.	PRIOR APPROVAL WILL BE REQUIRED FOR REMOVAL OF ANY TREE WITHIN THE CONSTRUCTION AREA.
26.	FOR MORE INFORMATION, SEE THE EROSION CONTROL DETAIL SHEET INCLUDED IN THE PLANS.	52.	ALL PIPE SHALL BE INSTALLED TO THE LINES AND GRADES SHOWN ON THE PLANS AND PROFILES. PIPES SHALL HAVE A MINIMUM THREE FEET OF COVER TO FINISH GRADE AT ALL LOCATIONS UNLESS SHOWN OTHERWISE.
<b>RIGHT-OF-WAY</b>			
27.	ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE MANATEE COUNTY/FDOT RIGHT-OF-WAY AND/OR EASEMENTS SHOWN ON THE DRAWINGS.	53.	THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP ALL EXCAVATIONS DRY. DEWATERING IS REQUIRED TO 18" BELOW TRENCH BOTTOM.
28.	THE CONTRACTOR SHALL EMPLOY A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA TO REFERENCE AND RESTORE PROPERTY CORNER MONUMENTS, PINS, AND LANDMARKS THAT MAY BE DISTURBED BY CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.	54.	ALL PIPING AND FITTINGS USED ON THIS PROJECT SHALL BE AS NOTED ON THE PLANS AND IN THE CONTRACT DOCUMENT.
29.	THE CONTRACTOR, PRIOR TO CONSTRUCTION AND RESTRICTING ANY TRAFFIC, MUST OBTAIN A RIGHTS-OF-WAY USE PERMIT AND A TRAFFIC CONTROL PLAN. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM OTHER GOVERNMENTAL AGENCIES HAVING RELEVANT JURISDICTION. ALL MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION "MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES". A TRAFFIC CONTROL PLAN SHALL BE SUPPLIED BY THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING.	55.	ALL PIPE SHALL BE COLOR CODED TO CONFORM TO MANATEE COUNTY STANDARDS.
30.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL DAMAGED STORM WATER STRUCTURES, PIPING, ENTRANCE PIPE AND HEADWALLS WHETHER SHOWN ON THE PLANS OR NOT. THE HEADWALLS SHALL BE REPLACED IN ACCORDANCE WITH F.D.O.T. STANDARDS.	56.	ALL PIPE AND FITTINGS SHALL BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER AND ALL PIPE JOINTS SHALL BE RESTRAINED WHERE REQUIRED.
31.	IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH IN THE FIELD THE RIGHT-OF-WAY LINES, BASE LINES, BENCH MARKS (ELEV.), CENTER LINES, AND STATIONING AS REQUIRED TO CONSTRUCT THIS PROJECT.	57.	RESTRAINED LENGTHS OF PIPE SHALL ADHERE TO THE REQUIREMENTS AS SHOWN ON THE DETAIL SHEETS.
32.	THE CONTRACTOR SHALL COORDINATE THE CUTTING OF DRIVEWAYS WITH THE PROPERTY OWNER PRIOR TO CUT. ALL DRIVEWAYS WILL BE IN PASSABLE CONDITION AT THE END OF THE WORK DAY.	58.	ALL FITTINGS FOR PRESSURE CLASS-RATED PIPE SHALL BE RESTRAINED DUCTILE IRON.
33.	A RIGHT OF ENTRY AGREEMENT SHALL BE OBTAINED BY THE PROJECT MANAGER FROM THE PROPERTY OWNER BEFORE ANY DRIVEWAY CONSTRUCTION WORK IS DONE OUTSIDE OF THE RIGHT-OF-WAY OR EASEMENT.	59.	WHERE IT IS NECESSARY TO DEFLECT PIPE EITHER HORIZONTALLY OR VERTICALLY, PIPE DEFLECTION SHALL NOT EXCEED 75% OF THE MANUFACTURER'S RECOMMENDED DEFLECTION.
<b>CONTACTS</b>			
MANATEE COUNTY PUBLIC WORKS DEPT. WAYNE TROXLER, P.E. 4422-B 66th STREET WEST BRADENTON, FL 34210 (941) 792-9811 EXT. 5249 FAX: (941) 795-3467		VERIZON FLORIDA INC. STEVE RICKERT 1701 RINGLING BLVD. SARASOTA, FL 34236 (941) 906-6707 FAX: (941) 906-6706	
TECO/PEOPLES GAS CO. DAN SHANAHAN 8261 VICO COURT SARASOTA, FL 34240 (941) 342-4030 FAX: (941) 342-4011 EMERGENCY: 1-877-632-6911		FLORIDA POWER & LIGHT GREG COKER 1253 12TH AVENUE EAST PALMETTO, FL 34221 (941) 723-4430 FAX: (941) 723-4444 EMERGENCY: 1-800-4-OUTAGE	
SUNSHINE STATE ONE CALL OF FLORIDA 1-(800) 432-4770		MANATEE COUNTY HEALTH DEPT. HARRY MESSICK 410 6th AVENUE EAST BRADENTON, FL 34208 (941) 748-0747 EXT. 1355 FAX: (941) 750-9364	
SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT SARASOTA SERVICE OFFICE DARYL R. FLATT, P.E. 6750 FRUITVILLE ROAD SARASOTA, FL 34240 (941) 377-3722 FAX: (941) 373-7660		DEPARTMENT OF ENVIRONMENTAL PROTECTION STEPHANIE BARIOS 13051 N. TELECOM PKWY TEMPLE TERRACE, FL 33637 PHONE: (813) 632-7600, EXT. 408 FAX: (813) 632-7662	
BRIGHT HOUSE NETWORKS DAN BARBER 5413 E. STATE ROAD 64 BRADENTON, FL 34208-5535 (941) 748-3816 EXT. 21345			

SEC, TWP, RGE	SEE LOCATOR MAP DRG.			NOTE:	JAMES D. STOCKWELL/67198	PUBLIC WORKS DEPT.-ENGINEERING DIVISION	NO.	REVISION DESCRIPTION	BY	DATE	<b>SATELLITE LIFT STATION REHABILITATION(2008)</b>
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											<b>GENERAL NOTES AND LEGEND</b>



RTU 240 – BAYSHORE ON THE LAKE L.S.



RTU 107 – MIRROR LAKE L.S.

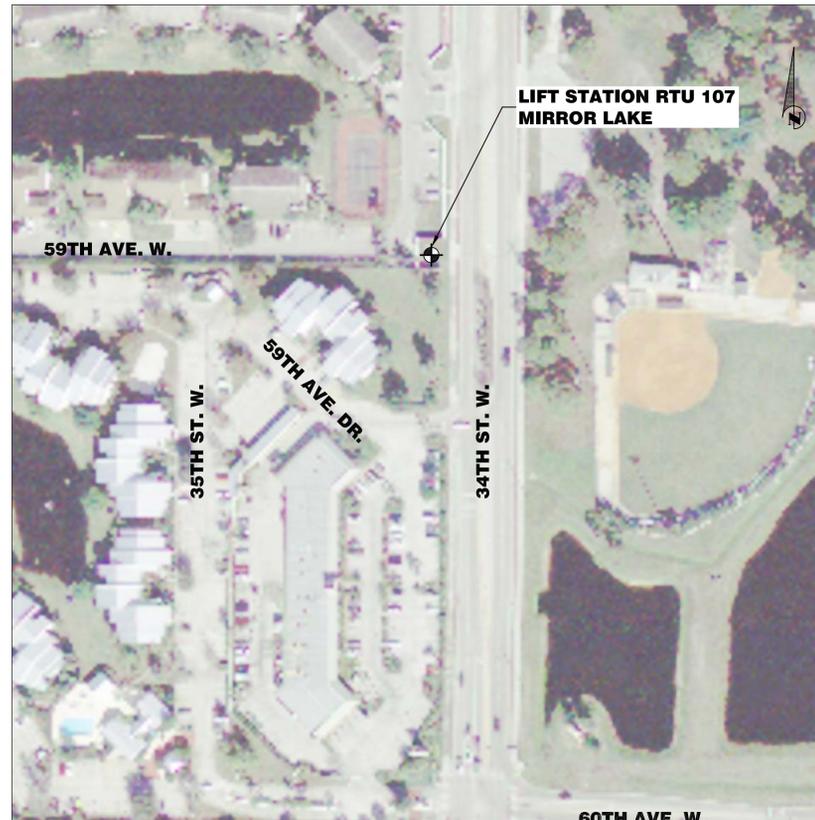


RTU 308 – SAMOSET #1 L.S.



RTU 240, 3910 LAKE BAYSHORE DR., BRADENTON  
PROJECT NUMBER: 402-5113480-LS: BAYSHORE ON THE LAKE  
STR 03-35-17

Horizontal Scale: 1"=100'



RTU 107, 5900 34TH AVE., BRADENTON  
PROJECT NUMBER: 402-5113880-LS: MIRROR LAKE  
STR 16-35-17

Horizontal Scale: 1"=100'



RTU 308, 1301 34TH AVE. E., SAMOSET  
PROJECT NUMBER: 402-5113680-LS: SAMOSET #1  
STR 06-35-18

Horizontal Scale: 1"=100'

F:\Projects\Sanitary Sewer - Lift Station Upgrades\Satellite - Lift Station Rehabilitation (2008-75)\Priority 3\Depth\Locator Maps\_9/25/2008 7:34 AM Cora Boyer 1.1 - ARCH.D

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PUBLIC WORKS DEPT.-ENGINEERING DIVISION  
  
4422-B 66th Street West, Bradenton, FL 34210

NO.	REVISION DESCRIPTION	BY	DATE

**SATELLITE LIFT STATION REHABILITATION(2008)**  
**PRIORITY 3**  
**LOCATOR MAPS**

Sheet  
3  
7

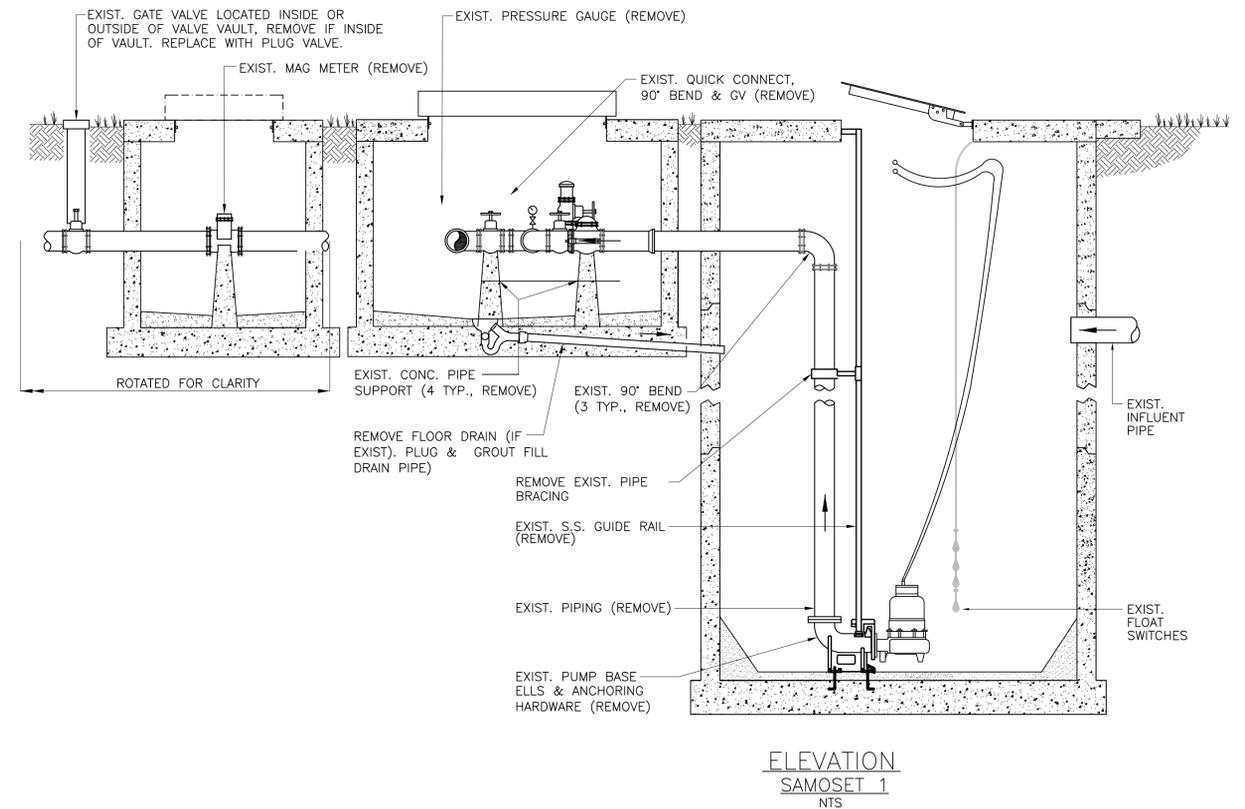
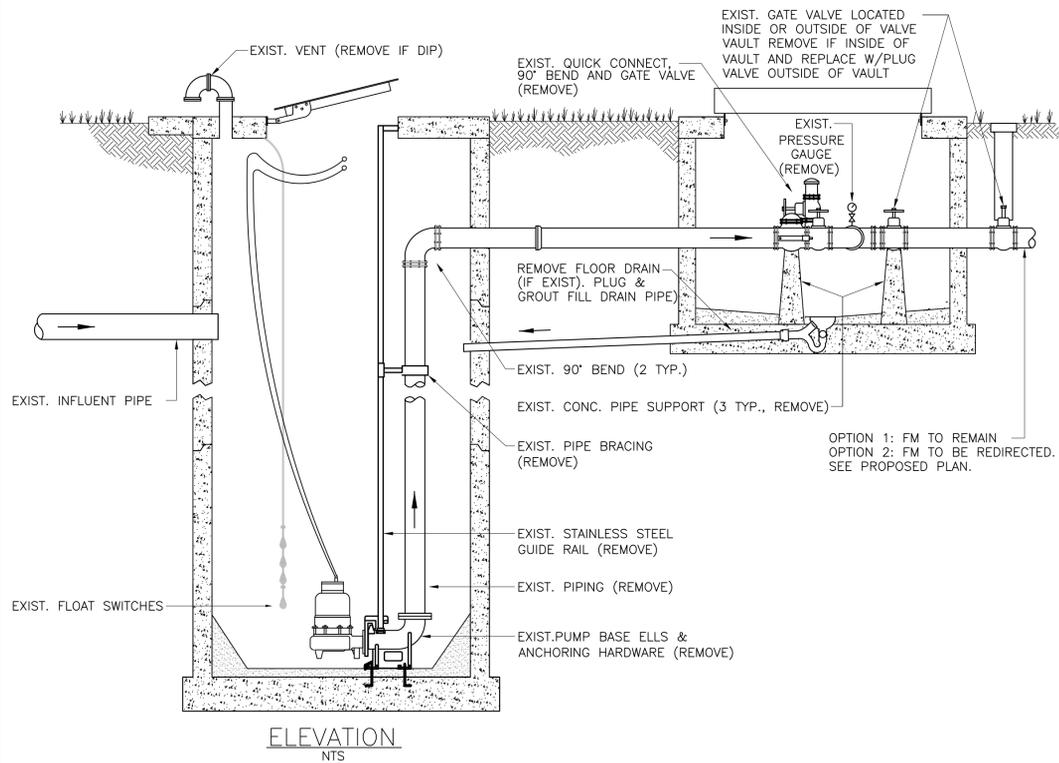
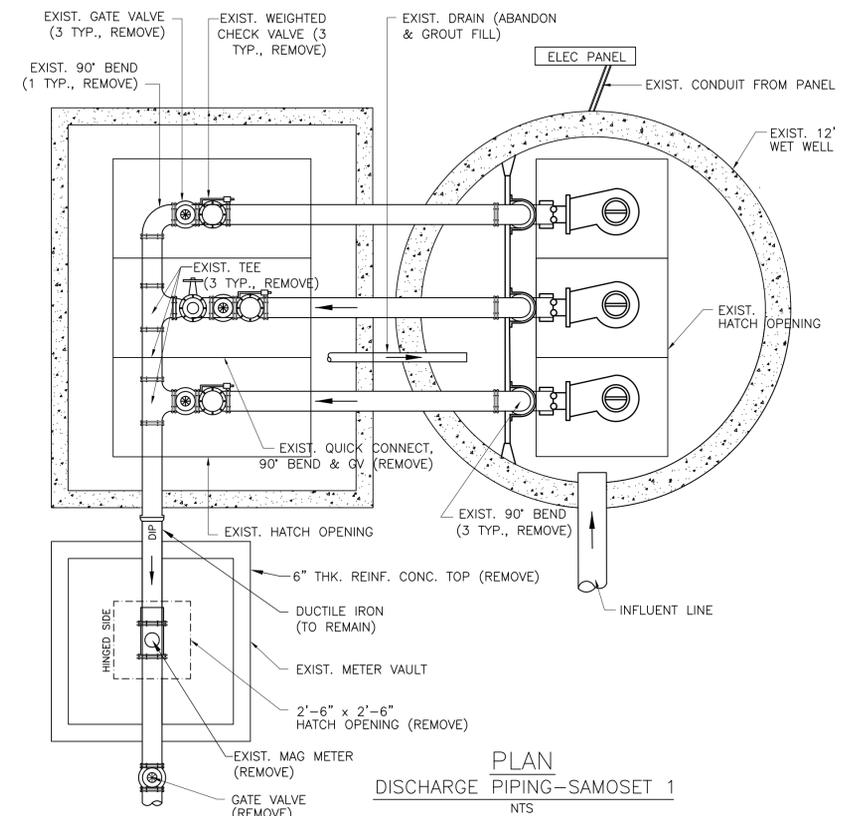
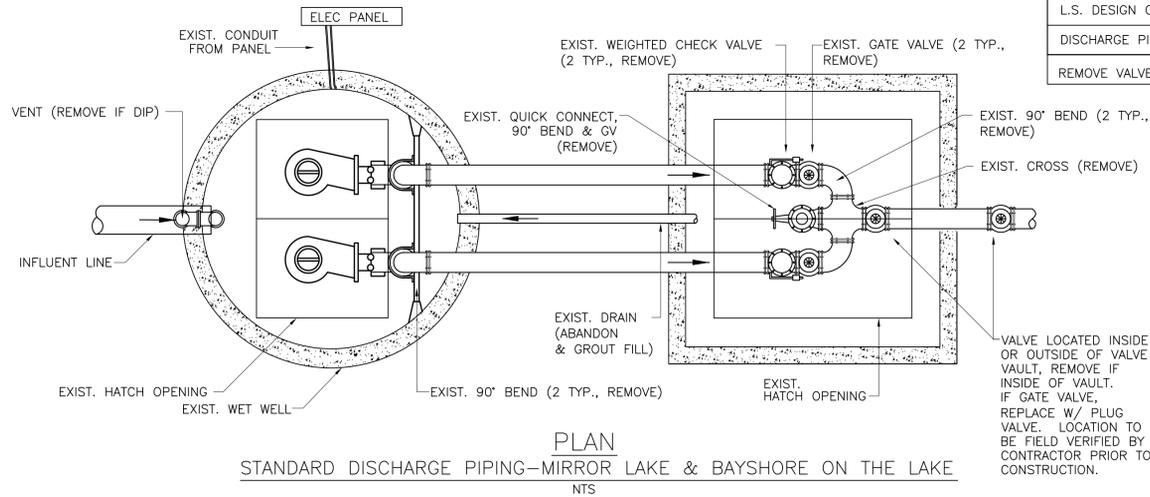
## LIFT STATION SCHEDULE: EXISTING

LIFT STATION NAME	EXISTING MIRROR LAKE	EXISTING BAYSHORE ON THE LAKE	EXISTING SAMOSET 1
RADIO TELEMETRY UNIT (RTU)	107	240	308
WET WELL DIAMETER	6'	6'	12'
DISCHARGE PIPING DIAMETER	4"	4"	8"
FORCE MAIN DIAMETER	4"	4"	8"
INFLUENT PIPE SIZE	8"	8"	18"
INFLUENT INVERT ELEVATION	7.54	3.13*	12.28
BOTTOM SLAB ELEVATION	3.11	-.67**	5.38"
GROUND ELEVATION	23.26	17'-2"**	33.00"
WET WELL LINER TYPE	EPOXY TYPE PAINT	EPOXY TYPE PAINT	EPOXY TYPE PAINT
WET WELL VENT PIPE	P.V.C.	D.I.P.	N/A
L.S. DESIGN CAPACITY gpm/TDH (ft)	75/78'	315/57.5'	750/33'
DISCHARGE PIPING PROFILE	STANDARD	STANDARD	STANDARD
REMOVE VALVE VAULT	YES	YES	N/A

\* Bayshore Elevations measured from Top of Wet Well Lid @ Assumed El. 19.00

### EXISTING NOTES:

1. THE WET WELL AND VALVE VAULT CONFIGURATION SHOWN ON THESE GRAPHICS IS FOR IDENTIFICATION OF COMPONENTS TO BE REMOVED. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, ELEVATIONS, CONFIGURATION, ETC. FOR ACCURACY.
2. THE EXISTING INFORMATION WAS TAKEN FROM RECORD DRAWING INFORMATION DATED FROM THE 1980's. THE CONTRACTOR/BIDDER SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.
3. THE DISCHARGE PIPING ELEVATIONS AND CONFIGURATION VARY AT EACH WET WELL EXIT POINT. THE CONTRACTOR/BIDDER SHALL DETERMINE THE DISCHARGE PIPING ELEVATIONS DURING THE SITE VISITS.
4. REMOVAL AND REINSTALLATION OF THE PUMPS DURING THE REHABILITATION SHALL BE DONE BY MANATEE COUNTY PERSONNEL IN COORDINATION WITH THE CONTRACTOR
5. BY-PASS PUMPING IS THE RESPONSIBILITY OF THE CONTRACTOR.
6. MANATEE COUNTY GOVERNMENT WILL PROVIDE ONE (1) LIFT STATION SHUT-DOWN AT NO COST TO THE CONTRACTOR. ADDITIONAL SHUT-DOWNS WILL COST THE CONTRACTOR \$3,500 EACH, IF NEEDED.



SEC, TWP, RGE SEE LOCATOR MAP DWG.			
SURVEY BOOK NO. N/A			
PROJECT NUMBER 402-5113480, 402-5113880 & 404-6069780			
By	Checked	Date	
Surveyed	N/A	N/A	N/A
Drawn	CB	JDS	08/15/08
Designed	CB/JM/JDS	JM/WRT/JDS	09/02/08

**NOTE:**  
THESE PLANS DO NOT REFLECT A TRUE BOUNDARY OR RIGHTS-OF-WAY SURVEY. THE LOCATION OF THE STREET RIGHTS-OF-WAY LINES SHOWN IS APPROXIMATE AND IS BASED ON INFORMATION CONTAINED IN THE SUBDIVISION PLATS, RIGHTS-OF-WAY MAPS ON RECORD IN MANATEE COUNTY AND ON TOPOGRAPHIC DATA COLLECTED ON THE ROUTE SURVEY OF THE RIGHTS-OF-WAY. CONSEQUENTLY THE RIGHTS-OF-WAY LINES SHOWN ARE NOT INTENDED TO INDICATE THE EXACT PROPERTY CORNERS.

JAMES D. STOCKWELL/67198  
Engineer / Reg. No.  
  
Signature & Date

PUBLIC WORKS DEPT.—ENGINEERING DIVISION  
  
  
4422-B 66th Street West, Bradenton, FL 34210

NO.	REVISION DESCRIPTION	BY	DATE

**SATELLITE LIFT STATION REHABILITATION(2008)**

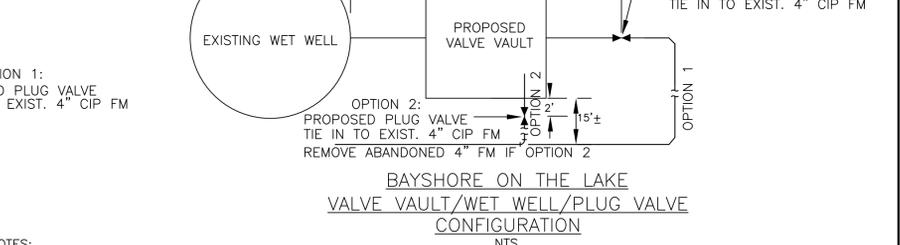
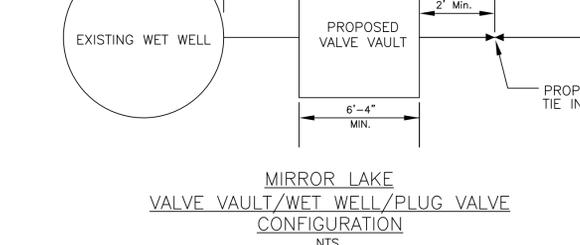
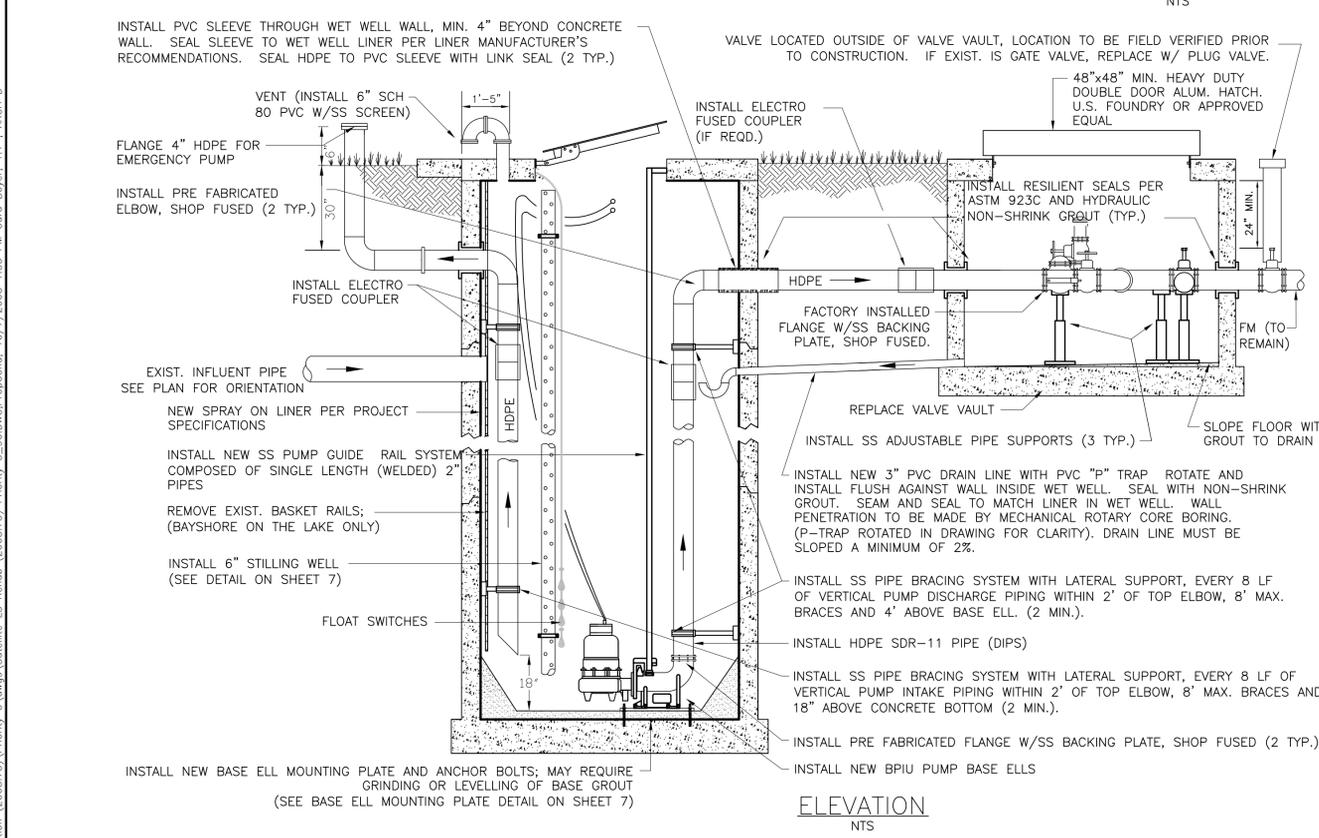
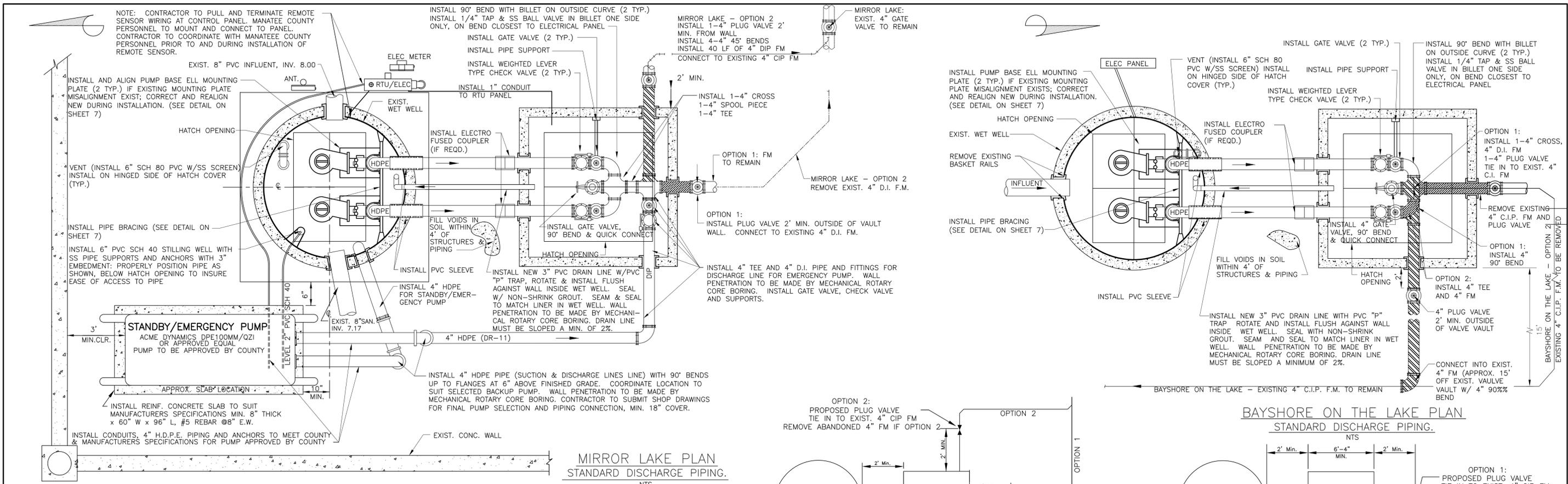
**PRIORITY 3**

**EXISTING CONDITIONS**

**MIRROR LAKE AND BAYSHORE LIFT STATIONS**

**SAMOSET 1 LIFT STATION**

Sheet  
4  
7



**LIFT STATION: NEW WORK SCHEDULE**

LIFT STATION NAME	PROPOSED MIRROR LAKE	PROPOSED BAYSHORE ON THE LAKE
RADIO TELEMETRY UNIT (RTU)	107	240
DISCHARGE PIPING DIAMETER	4"	4"
STILLING WELL	YES	NO
NEW WET WELL LINER TYPE	SPRAY ON	SPRAY ON
DISCHARGE PIPING PROFILE	STANDARD	STANDARD
REPLACE G.V. CK.V. & INSTALL P.V. OUTSIDE OF VALVE VAULT	YES	YES
NEW HDPE PIPING IN WET WELL	YES - 4"	YES - 4"
NEW BASE ELLS	4"	4"
REMOVE/REPLACE VALVE VAULT, COVER, LID & HATCH W/ADD'L SEPARATION	YES	YES
INSTALL TEE & VALVE IN V.V., & SLAB, & LINES FOR FUT. EMER. PUMP	YES	NO
FILL VOIDS WITH SHELL/CONC. GROUT	YES	YES
VENT PIPE	NO	YES
S.S. SCREEN FOR VENT PIPE	YES	YES
WATER IMPROVEMENTS	UPGR TO U-15 DET/DWG 6	RELOCATE WS TO E OF LS BETW WW/WV
REMOVE BASKET RAILS	NO	YES

\* Bayshore Elevations measured from Top of Wet Well Lid @ Assumed El. 19.00

- NOTES:**
- PVC RESTRAINTS SHALL BE EBAA IRON MEGA FLANGE, MEGA LUG OR APPROVED EQUAL.
  - ALL PVC CONNECTIONS TO IRON BODIED FLANGE FITTINGS SHALL BE MADE USING EBAA IRON MEGA FLANGE OR APPROVED EQUAL FLANGE ADAPTERS.
  - ALL BURIED FITTINGS SHALL BE RESTRAINED MECHANICAL JOINT.
  - ALL PIPING DOWNSTREAM FROM THE CROSS IN THE VALVE VAULT SHALL BE DR-14 C-900, EXCEPT WHERE SHOWN OTHERWISE.
  - ALL METAL APPURTENANCES INCLUDING BOLTS, NUTS AND WASHERS INSIDE THE WET WELL AND VALVE VAULT SHALL BE STAINLESS STEEL UNLESS OTHERWISE NOTED (TYPE 316). ALL STAINLESS STEEL BOLTS SHALL BE TREATED WITH NEVER SEIZE PRIOR TO ASSEMBLY.
  - VERTICAL PUMP DISCHARGE PIPING IN THE WET WELL SHALL BE BRACED 4' ABOVE THE PUMP BASE ELL AT THE BOTTOM, AT THE TOP, AND A MAXIMUM OF EVERY EIGHT (8) LINEAR FEET.
  - ALL ACCESS COVERS SHALL BE ALUMINUM WITH S.S. HARDWARE AND RATED FOR 300 P.S.F. LOADING. ALL ALUMINUM SURFACES IN CONTACT WITH CONCRETE SHALL HAVE 2 COATS BITUMASTIC EPOXY TOTAL 16 MILS DFT. ALL ACCESS COVERS SHALL BE EQUIPPED WITH A LOCKING STAPLE OR BAR FOR USE WITH A PADLOCK. PADLOCKS SHALL BE FURNISHED BY THE UTILITY OPERATIONS DEPARTMENT.
  - RESILIENT SEALS SHALL MEET THE REQUIREMENTS OF ASTM C-923 LATEST REVISION AND ARE REQUIRED AT ALL PIPING THRU CONCRETE LOCATIONS.
  - MANATEE COUNTY UTILITY OPERATIONS DEPT. SHALL HAVE THE OPTION TO PICK-UP AT THE SITE ANY REMOVED ITEM SUCH AS VALVES FOR POSSIBLE REUSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER DISPOSAL OF ALL REMOVED ITEMS NOT PICKED UP BY THE UTILITY OPERATIONS DEPT.
  - REMOVAL AND REINSTALLATION OF THE PUMPS DURING REHABILITATION SHALL BE DONE BY MANATEE COUNTY PERSONNEL IN COORDINATION WITH THE CONTRACTOR.
  - WET WELLS LININGS SHALL BE REPAIRED AROUND PIPING, PENETRATIONS, ACCESS OPENINGS, AND OTHER AREAS AS NEEDED PER LINER MANUFACTURER. ANY AND ALL SLEEVES TO BE INSTALLED, SHOULD BE INSTALLED FOR ENTIRE RUN THROUGH STRUCTURES; TO ENSURE COMPLETE AND OPTIMUM SEAL IS MADE.
  - VOIDS IN SOIL EXIST NEAR WETWELLS & VAULTS. BACKFILL VOIDS WITH SHELL OR CONCRETE AND COMPACT CAREFULLY.
  - REBAR FOR BACKUP PUMP SLAB SHALL BE 60 KSI DEFORMED BARS MEETING ASTM A615 WITH MIN. 15" LAP LENGTH AT SPLICES, MIN. 3" COVER ON BARS. CONCRETE MIN. 4000 PSI @ 28 DAYS COMPRESSIVE STRENGTH. INSTALL SLAB IN ACCORDANCE WITH ACI318.

SEC, TWP, RGE SEE LOCATOR MAP DWG.

SURVEY BOOK NO. N/A

PROJECT NUMBER 402-5113480, 402-5113880 & 404-6069780

By	Checked	Date
Surveyed	N/A	N/A
Drawn	CB	JDS 08/15/08
Designed	CB/JM/JDS	JM/WRT/JDS 09/02/08

**NOTE:**

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JAMES D. STOCKWELL/67198  
Engineer / Reg. No.

Signature & Date

PUBLIC WORKS DEPT.-ENGINEERING DIVISION

MANATEE COUNTY FLORIDA

4422-B 66th Street West, Bradenton, FL 34210

NO.	REVISION DESCRIPTION	BY	DATE

**SATELLITE LIFT STATION REHABILITATION(2008)**

**PRIORITY 3**

**PROPOSED CONDITIONS**

**MIRROR LAKE & BAYSHORE LIFT STATIONS**

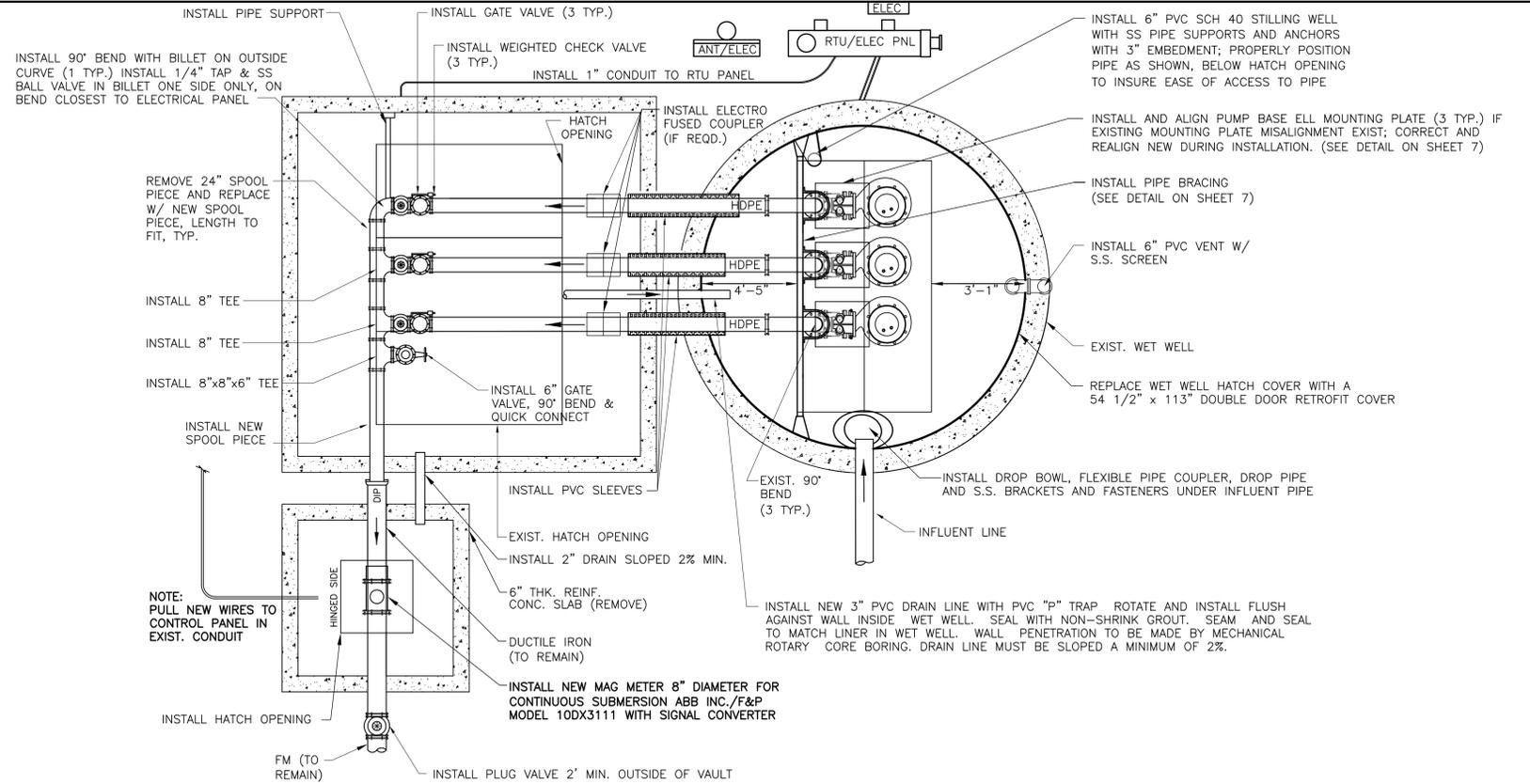
Sheet 5 of 7

## LIFT STATION NEW WORK SCHEDULE

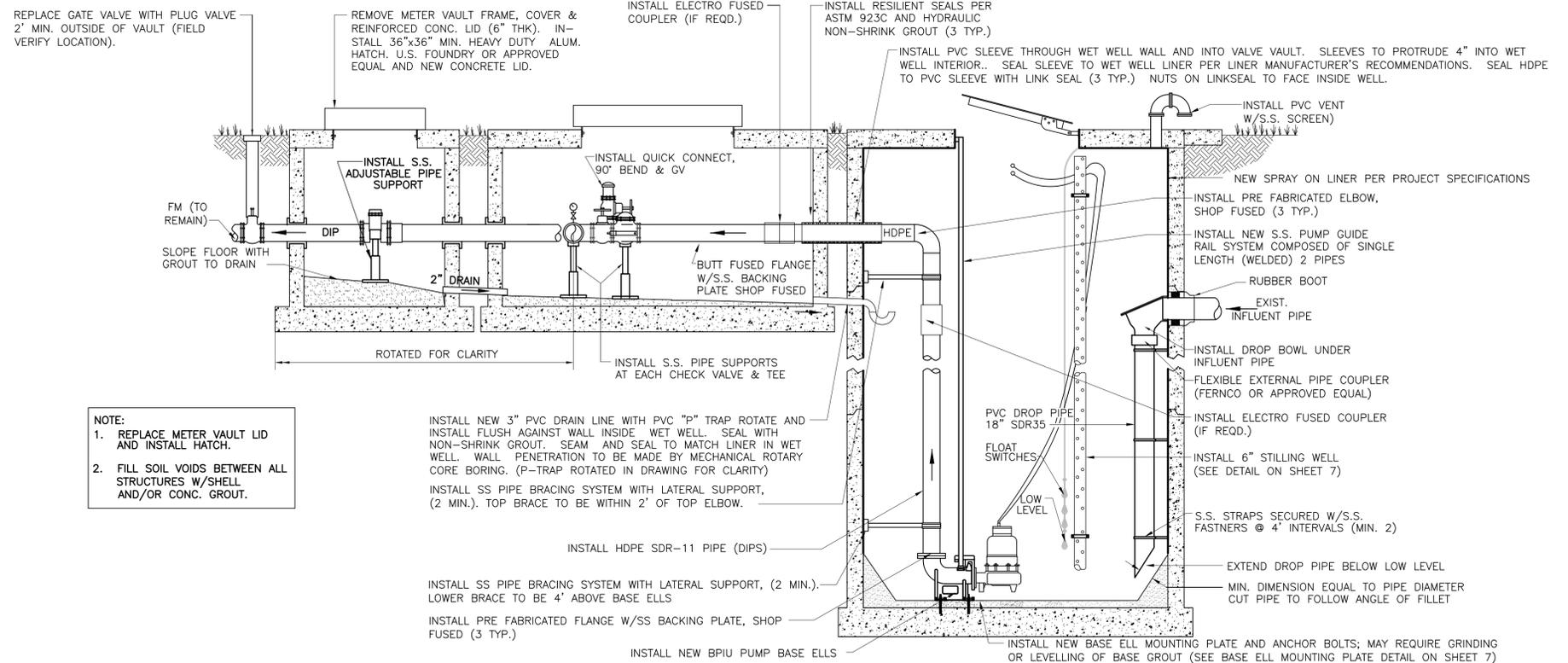
LIFT STATION NAME	SAMOSSET#1
RADIO TELEMETRY UNIT (RTU)	308
DISCHARGE PIPING DIAMETER	8"
STILLING WELL	YES
NEW WET WELL LINER TYPE	SPRAY ON
DISCHARGE PIPING PROFILE	STANDARD
REPLACE & RELOCATE PLUG VALVE TO OUTSIDE OF VALVE VAULT	NO
NEW HDPE PIPING IN W.W.	YES
NEW BASE ELLS	6"
REPLACE DRAIN	YES
REPLACE V.V. AND LID	NO
REPLCE 8" TEE W/ 8"x8"x6" TEE, REPLACE SPOOL PIECES IN VALVE VAULT AND ADJUST PIPING	YES
INSTALL DROP BOWL, DROP PIPE & S.S. STRAPS & FASTENERS, FILL VOID BETWEEN STRUCTURES.	YES
NEW HDPE PIPING IN W.W.	8"
FILL VOID BETWEEN STRUCTURES, REPL. MTR VAULT FRAME & CVR	YES
REPLACE EXIST. WET WELL HATCH COVER W/54 1/2"x113" DOUBLE DOOR RETROFIT COVER.	YES
INSTALL MTR. VAULT LID, & 36"x36" MIN. HEAVY DUTY HATCH.	YES
MAGNETIC FLOW METER; ABB INC., (F&P) 8DX3111	YES

### NOTES:

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- ALL PVC CONNECTIONS TO IRON BODIED FLANGE FITTINGS SHALL BE MADE USING EBAA IRON MEGA FLANGE OR APPROVED EQUAL FLANGE ADAPTERS.
- ALL BURIED FITTINGS SHALL BE RESTRAINED MECHANICAL JOINT.
- ALL METAL APPURTENANCES INCLUDING BOLTS, NUTS AND WASHERS INSIDE THE WET WELL AND VALVE VAULT SHALL BE STAINLESS STEEL UNLESS OTHERWISE NOTED (TYPE 316). ALL STAINLESS STEEL BOLTS SHALL BE TREATED WITH NEVER SEIZE PRIOR TO ASSEMBLY.
- VERTICAL PUMP DISCHARGE PIPING IN THE WET WELL SHALL BE BRACED 4' ABOVE THE PUMP BASE ELL AT THE BOTTOM, AT THE TOP, AND A MAXIMUM OF EVERY EIGHT (8) LINEAR FEET.
- FLEXIBLE GASKET CONNECTORS SHALL MEET THE REQUIREMENTS OF ASTM C-923 LATEST REVISION AND ARE REQUIRED AT ALL PIPING THRU CONCRETE LOCATIONS.
- MANATEE COUNTY UTILITY OPERATIONS DEPT. SHALL HAVE THE OPTION TO PICK-UP AT THE SITE ANY REMOVED ITEM SUCH AS VALVES FOR POSSIBLE REUSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER DISPOSAL OF ALL REMOVED ITEMS NOT PICKED UP BY THE UTILITY OPERATIONS DEPT.
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- VOIDS IN SOIL EXIST NEAR WETWELLS & VAULTS. BACKFILL VOIDS WITH SHELL OR CONCRETE AND COMPACT CAREFULLY.
- REBAR FOR BACKUP PUMP SLAB 60 PSI DEFORMED BARS, MIN. 3" COVER ON BARS. CONCRETE MIN. 4000 PSI @ 28 DAYS COMPRESSIVE STRENGTH.



SAMOSSET 1 PLAN  
NTS



SAMOSSET 1 ELEVATION  
NTS

SEC, TWP, RGE	SEE LOCATOR MAP DWG.		
SURVEY BOOK NO.	N/A		
PROJECT NUMBER	402-5113480, 402-5113880 & 404-6069780		
By	Checked	Date	
Surveyed	N/A	N/A	N/A
Drawn	CB	JDS	08/15/08
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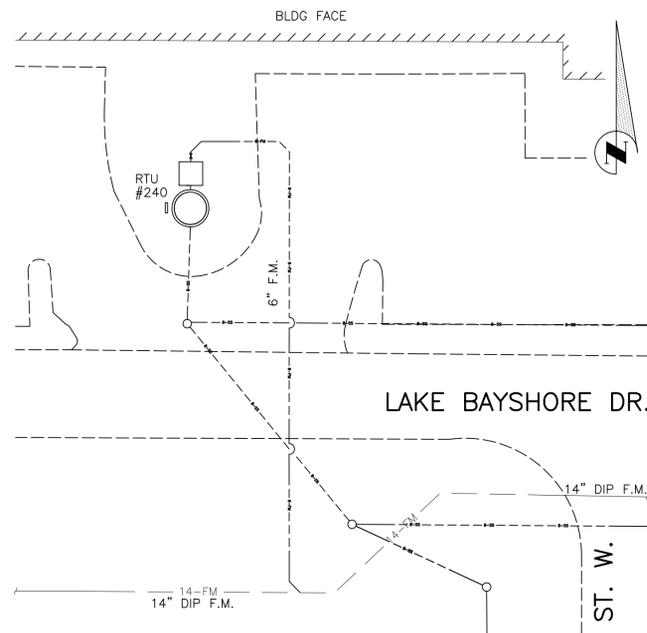
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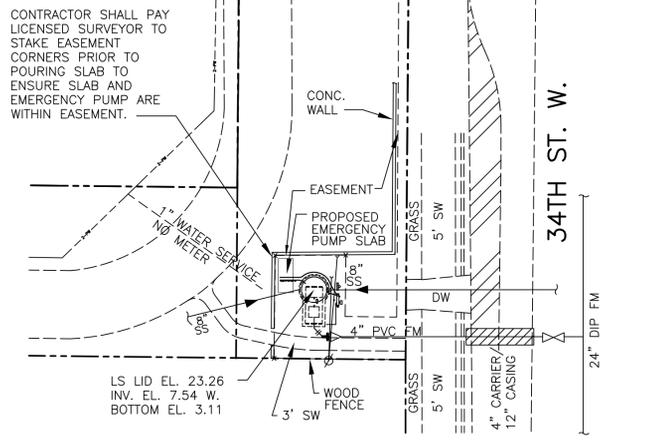
NO.	REVISION DESCRIPTION	BY	DATE

**SATELLITE LIFT STATION REHABILITATION(2008)**  
**PRIORITY 3**  
**PROPOSED CONDITIONS**  
**SAMOSSET 1 PLAN & ELEVATION**



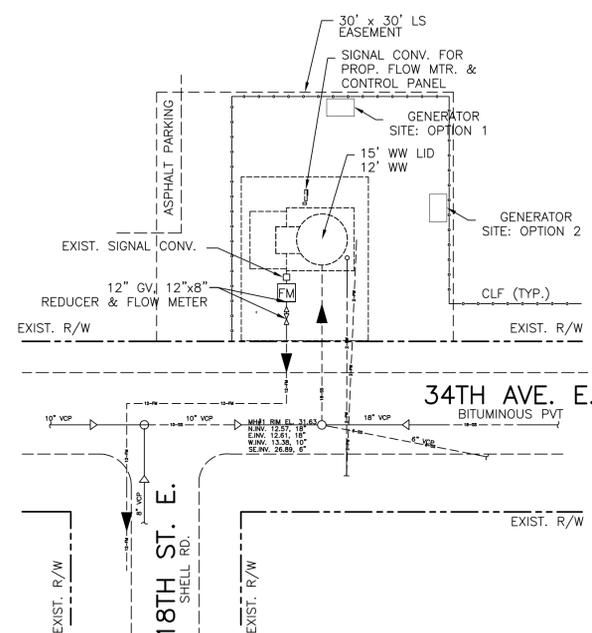
EXISTING SITE PLAN  
BAYSHORE ON THE LAKE (RTU 240)

SCALE: 1"=20'



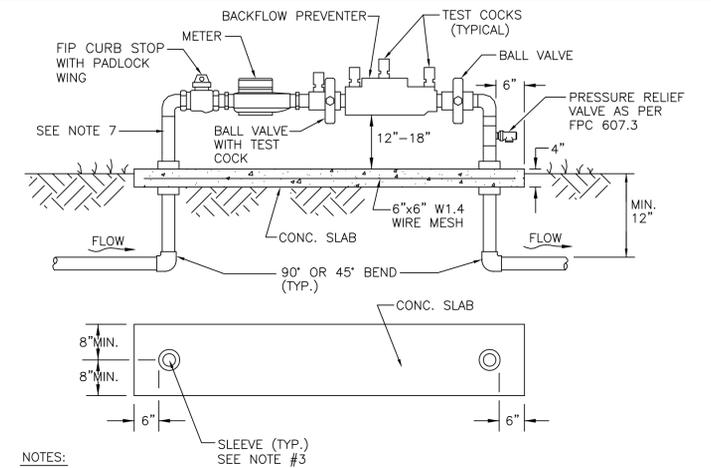
EXISTING SITE PLAN  
MIRROR LAKE (RTU 107)

SCALE: 1"=20'



EXISTING SITE PLAN  
SAMOSET #1 (RTU 308)

SCALE: 1"=20'



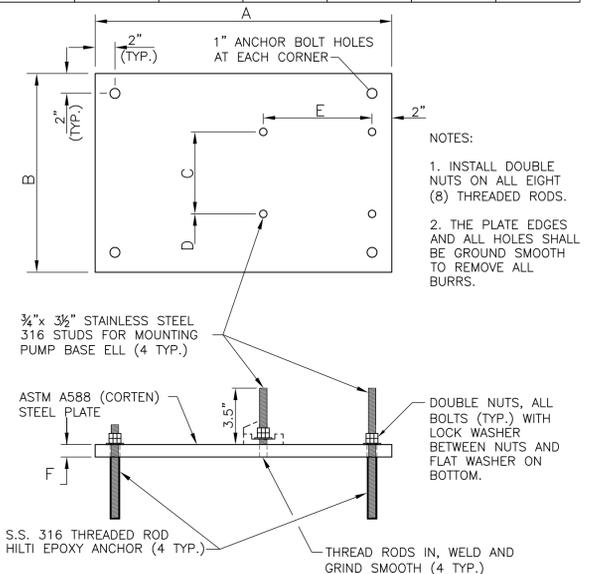
NOTES:

- BACKFLOW DEVICE MUST BE INSTALLED DOWNSTREAM OF METER, AS CLOSE TO METER AS POSSIBLE.
- COPPER PIPE TYPE "L" OR BRASS PIPE MINIMUM SCHEDULE 40 SHALL BE USED TO A MINIMUM DEPTH OF 12" BELOW GRADE.
- PIPES PASSING THROUGH OR ENCASED IN CONCRETE MUST BE PROPERLY PROTECTED AND SLEEVED.
- THE SYSTEM MUST MEET ALL REQUIREMENTS OF THE FLORIDA PLUMBING CODE (LATEST EDITION) AND THE MANATEE COUNTY BACKFLOW PREVENTION ORDINANCE (LATEST EDITION).
- ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1/2".
- BACKFLOW PREVENTER SHALL BE TESTED AT THE TIME OF INSTALLATION.
- PRESSURE REDUCING VALVE REQUIRED UPSTREAM OF BACKFLOW IF SYSTEM PRESSURE EXCEEDS 80 PSI.
- 2' MINIMUM CLEARANCE FROM LANDSCAPING PLANTS TO EDGE OF CONCRETE SLAB AND CLEAR OPENING FOR ACCESS FROM STREET.
- HOSE BIB SHALL BE ANCHORED TO A 4" PVC CONCRETE FILLED PIPE.

**5/8 WATER METER & BACKFLOW PREVENTER FOR LIFT STATIONS (US-15)**  
SCALE: 1"=20'

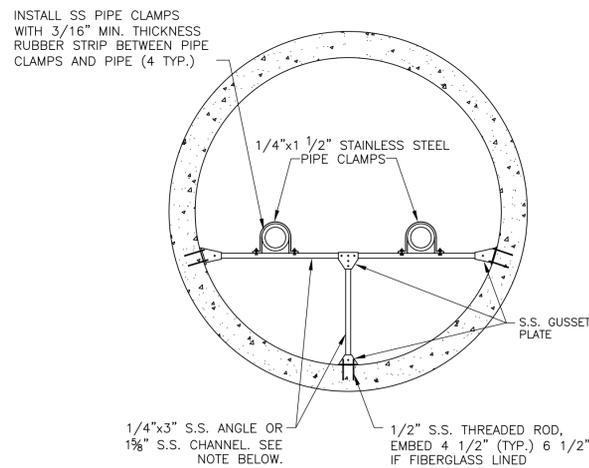
**PUMP BASE ELL MOUNTING PLATE DIMENSIONS**

DIMENSIONS	A	B	C	D	E	F
FOR 6" PUMPS	24"	20"	8.25"	5.875"	11"	3/4"
FOR 4" PUMPS	20"	16"	6"	5"	10"	1/2"



- NOTES:
- INSTALL DOUBLE NUTS ON ALL EIGHT (8) THREADED RODS.
  - THE PLATE EDGES AND ALL HOLES SHALL BE GROUND SMOOTH TO REMOVE ALL BURRS.

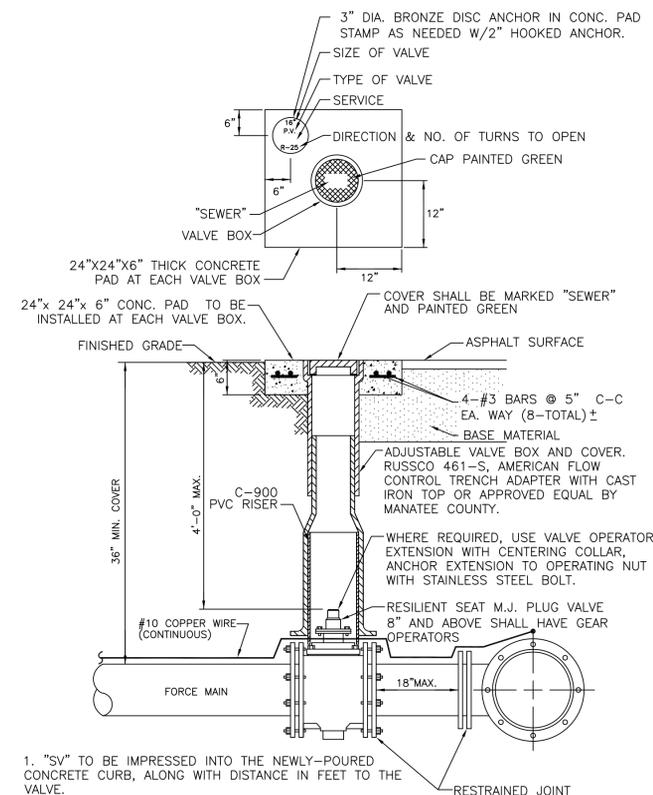
**PUMP BASE ELL MOUNTING PLATE**  
NTS



NOTE:  
THE PIPE CLAMPS SHALL BE CONSTRUCTED FROM MIN. 1/4" x 1 1/2" STAINLESS STEEL FLAT STOCK. ALL BRACING SYSTEM COMPONENTS SHALL BE CONNECTED USING STAINLESS STEEL FASTENERS. ALL THREADED CONNECTIONS SHALL HAVE STAINLESS STEEL FLAT WASHERS AND STAINLESS STEEL NYLON INSERT LOCK NUTS.

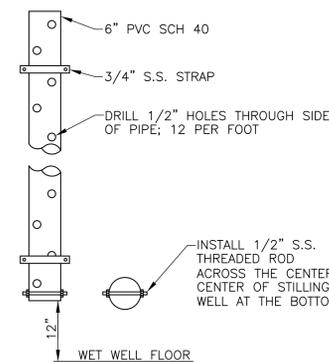
FOR WET WELLS 8' IN DIAMETER AND LARGER OR WET WELLS WITH DISCHARGE PIPING 8" IN DIAMETER OR LARGER USE 3" S.S. ANGLE IRON FOR ALL OTHERS USE 1 1/2" x 1 1/2" S.S. CHANNEL. UNISTRUT 12 GA. OR EQUAL.

**WET WELL PIPE BRACING DETAIL**  
NTS



- "SV" TO BE IMPRESSED INTO THE NEWLY-POURED CONCRETE CURB, ALONG WITH DISTANCE IN FEET TO THE VALVE.
- ALL EXISTING AND PROPOSED VALVE BOXES SHALL BE ADJUSTED TO FINISHED GRADES AS ESTABLISHED IN THE FIELD.

**FORCE MAIN VALVE DETAIL**  
NTS



**STILLING WELL DETAIL**  
NTS

Z:\Satellite Lift Station Rehabilitation (2008-75)\Priority 3\Drawings\Satellite LS Rehab (2008-75) Priority 3\_90.DWG Details, 9/19/2008 9:49 AM Cora Boyer: 1:1 - ARCH: D

SEC, TWP, RGE	SEE LOCATOR MAP DWG.		
SURVEY BOOK NO.	N/A		
PROJECT NUMBER	402-5113480, 402-5113880 & 404-6069780		
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**SATELLITE LIFT STATION REHABILITATION(2008)**  
**PRIORITY 3**  
**DETAIL SHEET**  
Sheet 7/7