

S:\P\WD-Engineering-Shore\001-Eng Design\PROJ\1-SAN SHR Proj\San Shr - LS Upgrades\Genra\2013 Egrna\Group B\UNOS\Active-SLS R&R Egrn 2013 Group B - NWD 88.dwg,1 Cover, 10/21/2014 1:28 PM Shee Shoun, 1:1, ANSI full bleed B (17.00 x 11.00 inches)

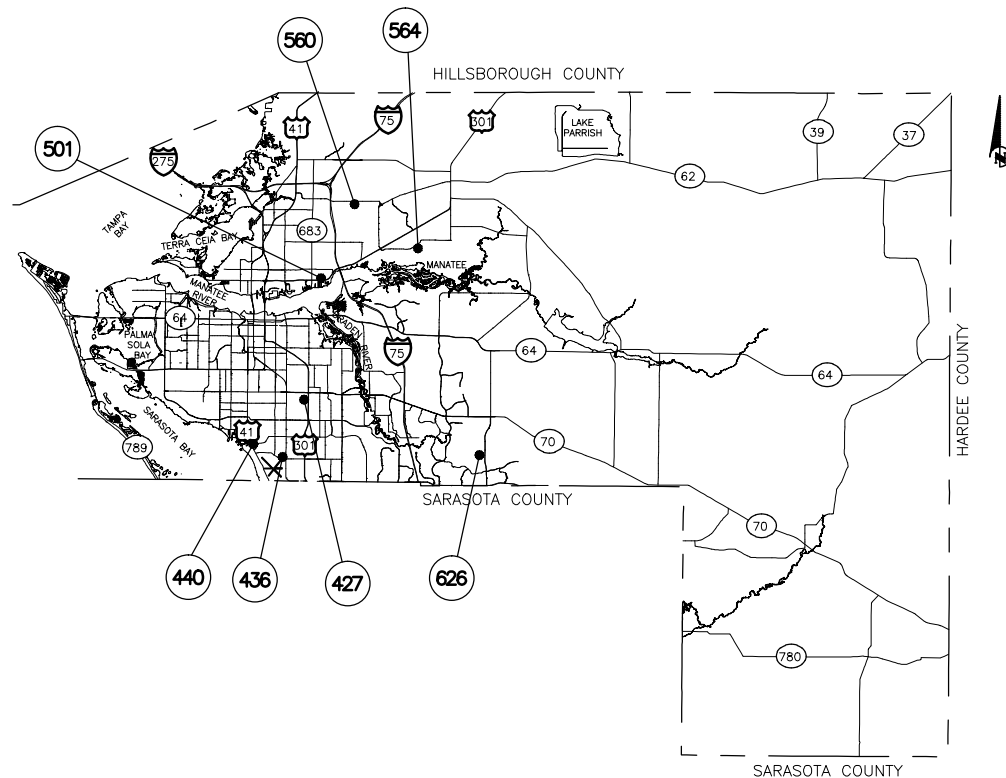


SATELLITE LIFT STATION R&R EMERGENCY GENERATORS 2013 GROUP B 402-0019707- 5001308

JUNE 2014

100% PLANS

L.S.NAME/NO.	RTU#	ADDRESS	PROJECT JL NUMBER	GENERATOR TYPE	FIRE DISTRICT
38-A	427	5519 24TH ST E BRADENTON, FL	5005101	DIESEL	SOUTHERN MANATEE
9-A	436	1160 ROME AVE BRADENTON, FL	5001395	DIESEL	SOUTHERN MANATEE
16-A	440	1009 69TH AVE W BRADENTON, FL	5001394	DIESEL	CEDAR HAMMOCK
TIDEVUEW 1	501	4100 10TH STE CT E ELLENTON, FL	5001398	DIESEL	NORTH RIVER
HEATHER GLENN	560	6609 67TH ST E PARRISH, FL	5001399	DIESEL	NORTH RIVER
RIVER WOODS 1	564	3202 RIVER WOODS DR PARRISH, FL	5001397	DIESEL	NORTH RIVER
ARNOLD PALMER GREEN 2	626	7533 ARNOLD PALMER GREEN BRADENTON, FL	5005100	NATURAL GAS	EAST MANATEE



LIFT STATION SITE VISITS MAY BE COORDINATED WITH NICK WAGNER (LIFT STATION SUPERINTENDENT), 941-792-8811 x5377

PER MCG LDC, 103.2.4.1: UTILITY INSTALLATIONS (EXCEPT SUBSTATIONS) ARE EXEMPT FROM THE REGULATIONS OF THE CODE.

PER FL STATUTES, 403.087.5: CONSTRUCTION PERMITS NOT REQUIRED IF INSTALLATION IS IN RESPONSE TO NPDES REQUIREMENTS.

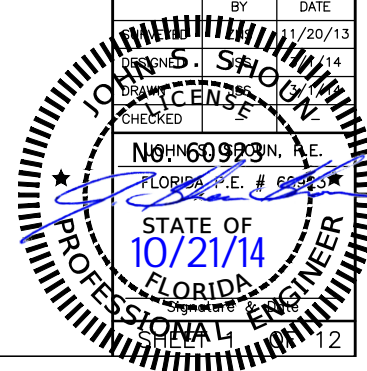
RULE 62-604.600(2)(F) FL ADMINSTRATIVE CODE: MODIFICATIONS TO LIFT STATIONS ASSOCIATED WITH ANCILLARY AND ELECTRICAL EQUIPMENT AND STRUCTURES ARE EXEMPT FROM FDEP CONSTRUCTION PERMITS.

FL STATE STATUES, FL 62-762, ABOVE GROUND DIESEL FUEL STORAGE TANKS EXEMPT IF UNDER 550 GALLONS.



Know what's below
Call before you dig

NO.	INDEX OF SHEETS
1.	COVER SHEET
2.	GENERAL NOTES & LEGEND
3.	38-A, RTU 427
4.	38-A, RTU 427 (ELEVATION VIEW)
5.	9-A, RTU 436
6.	16-A, RTU 440
7.	TIDEVUEW 1, RTU 501
8.	HEATHER GLENN, RTU 560
9.	RIVER WOODS 1, RTU 564
10.	ARNOLD PALMER GREEN 2, RTU 626
11.	DETAILS
12.	EROSION CONTROL



ORIGINAL SHEET SIZE: 11"X17"
SATELLITE LIFT STATION R&R
EMERGENCY GENERATORS 2013 GROUP B
COVER

NO.	DATE	BY	REVISION DESCRIPTION
PROJECT #	402-0019707-5001308		
SURVEY #	-		
SEC./TWN./RGE	-		
SCALE	SEE PLANS		
DESIGNED	BY	DATE	
DRAWN		11/20/13	
CHECKED		11/14	
NO. 60993			
JOHN S. SHOUN, P.E.			
FLORIDA P.E. # 60993			
STATE OF FLORIDA			
10/21/14			
PROFESSIONAL ENGINEER			
SHEET 4			
12			

LS\WHD_Engineering\Shore\Util_Eng_Design\PROJ\1-SAN_SHWR_Proj\San_Swr - LS_Upgrade\CDraw\2013 Egen\Group B\WHS\active-SLS_R&R_Egen_2013_Group_B - NAD_83.dwg,2 GNL Util, 10/27/2014 1:28 PM Shao Shoun, L1: ANSI full bleed B (17.00 x 11.00 inches)

GENERAL

- ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE PROJECT MANAGEMENT DIVISION. THE PROJECT MANAGER IS: SHERRI ROBINSON AND CAN BE REACHED AT (941) 708-7450 EXT. 7333
- SITE VISITS ARE MANDATORY FOR ALL BIDDERS. THESE SITE VISITS CAN BE ARRANGED THROUGH THE PROJECT MANAGER .
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.

SAFETY

- 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.
- THE CONTRACTOR SHALL USE SHEET PILING, SHEETING, BRACING, ETC., AS REQUIRED IN ALL EXCAVATION AREAS AND CONFORM TO ALL OSHA REQUIREMENTS.
- THE CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND UTILITIES, POWER LINES, ETC.
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THIS EXCLUSION DOES NOT ALLEVIATE THE CONTRACTOR FOR PROVIDING A CONTINUOUS SAFE WORKSPACE.

ENVIRONMENTAL

- CONTRACTOR IS RESPONSIBLE FOR INSTALLATION ALL SEDIMENT AND EROSION CONTROL (SEC) DEVICES (E.G., BARRIERS, SEDIMENT TRAPS/BASINS, VEGETATIVE BUFFERS, ETC.) AS SPECIFIED IN THE FINAL APPROVED PLANS FOR THE PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL SEC DEVICES UTILIZED DURING THE PROJECT, AS WELL AS INSTALLATION & MAINTENANCE OF ANY ADDITIONAL MEASURES DEEMED NECESSARY DURING PROJECT IMPLEMENTATION, TO PREVENT EROSION AND OFF-SITE SEDIMENT MIGRATION. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REMOVAL AND PROPER DISPOSAL OF ALL SEC DEVICES UPON CONCLUSION OF THE PROJECT, AND UPON ADEQUATE STABILIZATION OF DISTURBED SOILS.
- 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.
- 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.
- 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 PROCESS, 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.
- SEDIMENT BASINS AND TRAPS, PERIMETER BERMS, SEDIMENT BARRIERS, VEGETATIVE BUFFERS, AND OTHER MEASURES INTENDED TO TRAP SEDIMENT AND/OR PREVENT THE TRANSPORT OF SEDIMENT ONTO 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.
- 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.
- 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.
- ALL EROSION AND POLLUTION CONTROL DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER EACH RAINFALL AND SHALL BE CLEANED OUT AND/OR REPAIRED AS REQUIRED.
- 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.
- FOR MORE INFORMATION, SEE THE EROSION CONTROL DETAIL SHEET INCLUDED IN THE PLANS.
- RIGHT-OF-WAY
- ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE MANATEE COUNTY/FDOT RIGHT-OF-WAY AND/OR EASEMENTS SHOWN ON THE DRAWINGS.
- 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.
- 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.
- 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.
- 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.
- 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 AND FULLY RESTORED PER SECTION 02575.

- 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.

UTILITIES

- 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 EFFECT 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.
- 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.
- 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.
- ANY TEMPORARY SHUTDOWNS FOR MODIFICATIONS OF EXISTING UTILITY SYSTEMS THAT MUST REMAIN IN SERVICE DURING CONSTRUCTIONS SHALL BE KEPT TO A MINIMUM AND 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.
- 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 DETAILED BY-PASS PUMPING PLAN PER SECTION 02720.

RESTORATION

- ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES UNLESS SHOWN OTHERWISE.
- 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.
- 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.
- ASPHALT DRIVES THAT ARE CUT SHALL BE RESTORED PER SECTION 02513.
- CONCRETE DRIVEWAYS OR SIDEWALKS THAT ARE CUT SHALL BE RESTORED TO MATCH EXISTING 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.
- 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.
- 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.

CONSTRUCTION

- 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 INSTALL NOISE ABATEMENT BAFFLES POSITIONED TO BREAK LINE-OF-SITE FROM THE NOISE SOURCE TO AFFECTED RESIDENCES, AS APPROVED BY THE ENGINEER.
- NO MATERIAL SHALL BE STOCKPILED IN ROADWAYS. ALL DIRT AND DEBRIS SHALL BE REMOVED FROM THE JOB SITE DAILY. ROADS SHALL BE SWEEPED DAILY AS PART OF DAILY CLEAN UP.
- THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS REQUIRED.
- INGRESS AND EGRESS TO ALL THE PROPERTIES IN THE CONSTRUCTION AREA SHALL BE MAINTAINED AT ALL TIMES.
- PRIOR APPROVAL WILL BE REQUIRED FOR REMOVAL OF ANY TREE WITHIN THE CONSTRUCTION AREA.
- THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP ALL EXCAVATIONS DRY. DEWATERING IS REQUIRED TO 18" BELOW TRENCH BOTTOM.
- ALL PIPING AND FITTINGS USED ON THIS PROJECT SHALL BE AS NOTED ON THE PLANS AND IN THE CONTRACT DOCUMENT AND SHALL BE INSTALLED TO THE LINES AND GRADES SHOWN ON THE PLANS AND PROFILES.
- ALL PIPE SHALL BE COLOR CODED TO CONFORM TO MANATEE COUNTY STANDARDS.
- ALL PIPE AND FITTINGS SHALL BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER AND ALL PIPE JOINTS SHALL BE RESTRAINED WHERE REQUIRED.
- ALL FITTINGS FOR PRESSURE CLASS-RATED PIPE SHALL BE RESTRAINED DUCTILE IRON. RESTRAINED LENGTHS OF PIPE SHALL ADHERE TO THE REQUIREMENTS AS SHOWN ON THE DETAIL SHEETS.
- WHERE IT IS NECESSARY TO DEFLECT PIPE EITHER HORIZONTALLY OR VERTICALLY, PIPE DEFLECTION SHALL NOT EXCEED 75% OF THE MANUFACTURER'S MAXIMUM ALLOWABLE RECOMMENDED DEFLECTION.
- ALL PIPE LENGTHS ARE PLUS OR MINUS AND MAY BE ADJUSTED IN THE FIELD AS REQUIRED. PIPE MEASUREMENTS ARE TO CENTER OF STRUCTURES OR FITTINGS.
- ALL ROCKS OR STONES LARGER THAN SIX INCH DIAMETER SHALL BE REMOVED FROM THE BACKFILL MATERIAL. BACKFILL MATERIAL PLACED WITHIN ONE FOOT OF PIPING AND APPURTENANCES SHALL NOT CONTAIN ANY STONES LARGER THAN TWO INCH DIAMETER.
- ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES ON COUNTY OWNED AND MAINTAINED UTILITY SYSTEMS.
- ALL PENETRATION OF EXISTING STRUCTURES SHALL BE BY THE MECHANICAL ROTARY CORE BORING METHOD.
- ALL CONCRETE PENETRATED OR DISTURBED SHALL BE COATED WITH TWO COATS OF EPOXY.
- THE CONTRACTOR, PRIOR TO ANY TEMPORARY WATER SHUT-OFFS DURING WATER MAIN TIE-IN, ETC., SHALL NOTIFY THE AFFECTED RESIDENTS BY POSTING INFORMATIONAL SIGNS IN THE NEIGHBORHOOD AT LEAST TWO DAYS (48 HRS) PRIOR TO THE WATER SHUT-OFF. REFERENCE SECTION 01580, PARAGRAPH 1.03 OF THE SPECIFICATIONS. WHEN FEASIBLE, "DOOR HANGERS" SHALL BE DELIVERED TO AFFECTED RESIDENCES AT LEAST TWO DAYS (48 HRS) PRIOR TO WATER SHUT-OFF. FOR LARGE PROJECTS WITH HUNDREDS OF HOMES AFFECTED, THE CONTRACTOR SHALL ALSO MAKE EXTENSIVE USE OF THE MEDIA AND SHALL HAVE PRIOR CONTACT WITH HOMEOWNER'S ASSOCIATIONS. WRITTEN NOTIFICATIONS SHALL ALSO BE FAXED TO THE TAMPA TRIBUNE, BRADENTON HERALD, SARASOTA HERALD TRIBUNE, WBRO RADIO, EMERGENCY COMMUNITY CENTERS, INSPECTIONS, WATER TREATMENT PLANT, WATER MANAGER, HELPLINE, CUSTOMER SERVICE, AND THE MANATEE COUNTY UTILITY OPERATIONS DEPARTMENT.
- ALL NEW PIPE LINES SHALL BE PIG CLEANED (4" AND LARGER), FLUSHED, PRESSURE TESTED, DISINFECTED AND CERTIFIED PRIOR TO TIE-INS TO EXISTING FACILITIES. THE CONTRACTOR WILL BE ALLOWED TO USE TEMPORARY PLUGS FOR PIG CLEANING AND PRESSURE TESTING.
- ALL TEST POINT PIPING SHALL BE CUT LOOSE FROM THE CORPORATION STOP AND COMPLETELY REMOVED AND DISPOSED OF BY THE CONTRACTOR PRIOR TO FINAL ACCEPTANCE. A CORPORATION STOP PLUG SHALL BE INSTALLED AND THE CORPORATION STOP SHALL REMAIN IN PLACE.

- ALL EXISTING MAINS THAT ARE BEING REPLACED SHALL BE ABANDONED IN PLACE UPON ACCEPTANCE AND ACTIVATION OF THE NEW MAINS. ABANDONED MAINS SHALL BE CUT, FILLED WITH GROUT, AND CAPPED. REFER TO SECTION 02064 OF THE SPECIFICATIONS FOR GROUTING OF ABANDONED PIPE.
- WATER MAINS CROSSING OVER OR UNDER SANITARY SEWERS, FORCE MAINS, AND RECLAIMED WATER LINES SHALL BE LAID PER CURRENT EDITION OF "10 STATE STANDARDS" AND MANATEE COUNTY UTILITY STANDARDS UNLESS NOTED OTHERWISE ON THE PLANS.
- FIELD CONDITIONS MAY NECESSITATE MINOR ALIGNMENT AND GRADE DEVIATION OF THE PROPOSED UTILITIES TO AVOID OBSTACLES, AS ORDERED BY THE ENGINEER.
- CONTRACTOR SHALL PROVIDE RECORD DRAWINGS IN ACCORDANCE WITH SECTION 14 IN THE CURRENT MANATEE COUNTY UTILITY STANDARDS AT NO COST TO THE OWNER. RECORD DRAWINGS SHALL BE SIGNED & SEALED BY A SURVEYOR CURRENTLY LICENSED BY THE STATE OF FLORIDA. ALL RECORD DRAWING INFORMATION REQUIREMENTS IN SECTION 14 SHALL BE STRICTLY ENFORCED. A COPY OF SECTION 14 WILL BE PROVIDED UPON REQUEST.

CONTACTS

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(863) 767-4660
kendell.coker@preco.coop

EXISTING

- BENCH MARK
- CONCRETE MONUMENT
- IRON PIPE
- IRON ROD
- HUB
- NAIL & DISK
- ELEVATION
- PARCEL ID NO.
- PARCEL ID NO.
- LOT NO.
- GUY WIRE
- POWER POLE
- LIGHT POLE
- MAIL BOX
- SIGN
- REFLECTOR
- SPRINKLER
- GAS MARKER
- BACKFLOW PREVENTER
- BLOW OFF VALVE
- FIRE HYDRANT
- WATER VALVE
- AIR RELEASE VALVE
- WATER METER
- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEAN OUT
- SOIL BORING LOCATION
- TELEPHONE SERVICE BOX
- FLOW DIRECTION
- GRATE INLET
- MITERED END SECTION

- BUSH
- TREE
- OAK TREE
- PALM TREE
- PINE TREE
- EDGE OF VEGETATION
- CHAIN LINK FENCE
- WOOD FENCE
- BARBED WIRE FENCE
- FORCE MAIN
- POTABLE WATER
- RECLAIMED WATER
- SANITARY SEWER
- STORM DRAIN
- GAS LINE
- OVERHEAD_CABLE_TV
- BURIED_CABLE_TV
- OVERHEAD ELECTRIC
- BURIED ELECTRIC
- OVERHEAD VERIZON
- BURIED VERIZON
- VERIZON
- BURIED UTILITY
- OVERHEAD UTILITY
- RAIL ROAD TRACKS
- EDGE OF CONCRETE
- EDGE OF ROAD
- TOE OF SLOPE
- TOP OF BANK
- PROPERTY LINE
- RIGHT OF WAY

ABBREVIATIONS

- R/W RIGHT OF WAY
- CONC CONCRETE
- ASPH ASPHALT
- DRWY DRIVEWAY
- SWK SIDEWALK
- EP EDGE OF PAVEMENT
- BOC BACK OF CURB

PROPOSED

- MAIN
- SERVICE LINE
- PROPOSED EASEMENT
- FIRE HYDRANT
- VALVE
- SANITARY SEWER MANHOLE
- BLOW OFF ASSEMBLY
- REDUCER
- TEE
- HORIZONTAL BEND
- VERTICAL BEND
- PLUG
- MASTER METER ASSEMBLY
- SERVICE LINE & METER
- DOUBLE SERVICE



PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

ORIGINAL SHEET SIZE: 11"X17"

SATELLITE LIFT STATION R&R
EMERGENCY GENERATORS 2013 GROUP B
GENERAL NOTES & LEGEND

REVISION	DESCRIPTION	BY	DATE
NO.			

PROJECT #	402-0019707-5001308
SURVEY #	-
SEC./TWN./RGE	-
SCALE	SEE PLANS

	BY	DATE
--	----	------

SURVEYED	2NS	11/20/13
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DESIGNED	JSS	11/14/14
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CHECKED	JSS	11/14/14
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JOHN S. SHOUN, P.E.	FLORIDA P.E. # 60928
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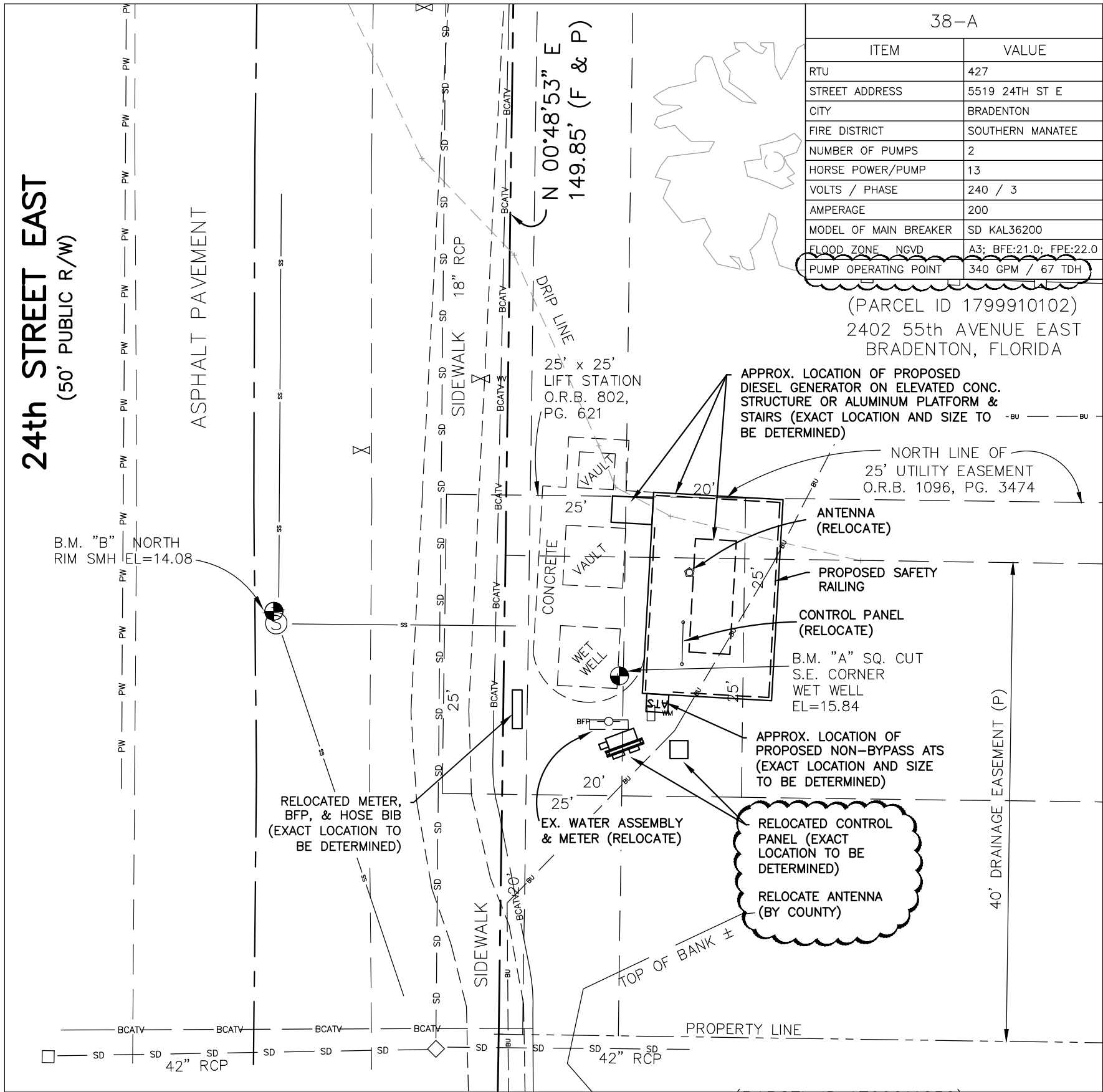
STATE OF	10/21/14
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PROFESSIONAL ENGINEER	FLORIDA P.E. # 60928
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\\SVRWD-Engineering\Share\UHI_Eng\Design\PROJ\2013\2013 Group B - NAD 88.dwg, 3 38A-427, 10/21/2014, 1:29 PM, Shoun, J.L., ANSI full bleed B (17.00 x 11.00 inches)

24th STREET EAST
(50' PUBLIC R/W)

ASPHALT PAVEMENT



38-A	
ITEM	VALUE
RTU	427
STREET ADDRESS	5519 24TH ST E
CITY	BRADENTON
FIRE DISTRICT	SOUTHERN MANATEE
NUMBER OF PUMPS	2
HORSE POWER/PUMP	13
VOLTS / PHASE	240 / 3
AMPERAGE	200
MODEL OF MAIN BREAKER	SD KAL36200
FLOOD ZONE NGVD	A3; BFE:21.0; FPE:22.0
PUMP OPERATING POINT	340 GPM / 67 TDH

(PARCEL ID 1799910102)
2402 55th AVENUE EAST
BRADENTON, FLORIDA

GENERAL NOTES:

- BEARINGS ARE BASED ON THE EAST PLATTED RIGHT OF WAY LINE OF 24th STREET EAST, HAVING A BEARING OF N 00°48'53" E AND ARE RELATED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, (WEST ZONE) NAD 83/90 DERIVED FROM CONTROL MONUMENT "MANATEE G. STROOP CORST" (DL7628).
- THE PROPERTY LIES WITHIN FLOOD ZONE "A3" AS SHOWN ON MANATEE COUNTY FLOOD INSURANCE RATE MAP PANEL No. 120153 0333 B, DATED MARCH 15, 1984, F.I.R.M. MAP INDEX REVISED JUNE 30, 1999.
- ELEVATIONS (ORIGINAL) WERE BASED ON N.G.V.D. 1929 DATUM, MANATEE COUNTY BENCH MARK "SWEET GUM 2009" (PID DM625), ELEVATION OF 19.25.
BENCH MARKS:
BM "A" SQUARE CUT IN S.E. CORNER OF WET WELL
EL. = 16.83' NGVD 1929 (EL. = 15.84' NAVD 1988)
BM "B" NORTH RIM OF SANITARY MANHOLE
EL. = 15.07' NGVD 1929 (EL. = 14.08' NAVD 1988)
NOTE: NGVD 1929 CONVERTED TO NAVD 1988 BY SUBTRACTING 0.99' AS DICTATED BY NGS DATA SHEETS IN THIS AREA.

- ALL ELEVATIONS IN THIS DRAWING HAVE BEEN CONVERTED FROM NGVD 1929 TO NAVD 1988 BY THE ENGINEER OF RECORD UTILIZING THE CONVERSION EQUATION PROVIDED BY THE SURVEYOR.
- A PROFESSIONAL SURVEYOR LICENSED IN THE STATE OF FLORIDA SHALL BE REQUIRED TO PREPARE RECORD DRAWINGS OF THE PLACEMENT OF THE GENERATOR, ATS, AND UNDERGROUND CONDUIT INSTALLED ON THE LIFT STATION SITE.
- ALL HORIZONTAL AND VERTICAL DISTANCES AND MEASUREMENTS SHALL BE FIELD VERIFIED PRIOR TO ORDERING MATERIALS AND COMMENCING WORK. ALL MEASUREMENTS AND CALCULATIONS SHALL BE THE RESPONSIBILITY OF THE AWARDED CONTRACTOR.
- ANY ELECTRICAL WIRING THAT IS INSTALLED BETWEEN THE LIFT STATION'S WET WELL, VALVE VAULT, AND/OR METER VAULT SHALL BE INSTALLED IN A CARRIER PIPE THAT IS STRAPPED TO THE STRUCTURE.
- THE CAPACITY OF THE DIESEL FUEL TANK SHALL BE SIZED TO THE MINIMAL FOOTPRINT & HEIGHT TO RUN THE GENERATOR CONTINUOUSLY FOR 96 HOURS AT 75% LOAD AS INDICATED IN THE SPECIFICATIONS. HOWEVER, THE DIESEL FUEL TANK SHALL NOT EXCEED 540 GALLONS.
- THE OVERALL FUEL SYSTEM IS TO COMPLY WITH ALL APPLICABLE NFPA REGULATIONS AS WELL AS THOSE REQUIRED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION. THIS INCLUDES NFPA COMPLIANT LABELS FOR THE FUEL SHUT-OFF LOCATION AND APPLICATIONS OF DIESEL HAZMAT SYMBOL STICKERS.
- L.S. 38-A IS LOCATED IN A FLOOD ZONE "AE" WITH A BASE FLOOD ELEVATION OF 20.00 NAVD. THE RIM OF THE DIESEL FUEL CAP, BASE OF GENERATOR, AND BOTTOM OF ATS SHALL BE ABOVE THE BASE FLOOD ELEVATION BY ONE (1) FOOT. A FLOOD REVIEW & ELEVATION CERTIFICATE PREPARED BY A LICENSED SURVEYOR IN THE STATE OF FLORIDA WILL BE REQUIRED FOR THIS LIFT STATION SITE.

CONSTRUCTION NOTES:

- CONCRETE STRUCTURE SIZE DEPENDS ON GENERATOR, ENCLOSURE, & FUEL TANK DIMENSIONS. CONTRACTOR TO SIZE GENERATOR & FUEL TANK FOR LIFT STATION REQUIREMENTS.
- CONTRACTOR TO SUBMIT A REINFORCED CONCRETE STRUCTURE DESIGN SIGNED AND SEALED BY PROFESSIONAL ENGINEER LICENSED IN FLORIDA. THIS COST SHALL BE PART OF THE CONCRETE STRUCTURE & SITE WORK BID ITEM.
- INSERT PREFORMED JOINT FILLER BETWEEN CONCRETE STRUCTURE & CONCRETE STAIRS. STAIRS SHALL INCLUDE GALVANIZED STEEL HANDRAILS AND MEET ALL OSHA AND FLORIDA BUILDING CODE REQUIREMENTS, LATEST EDITION. ALL STAIRS AND HANDRAIL COSTS SHALL BE INCLUDED IN THE CONCRETE SLAB & SITE WORK BID ITEM.
- THE ATS IS TO BE INSTALLED ON STAINLESS STEEL PIPES (PER MANATEE COUNTY STANDARDS) ADJACENT TO THE GENERATOR CONCRETE STRUCTURE. A 4 FT MIN. CLEARANCE SHALL BE PROVIDED BETWEEN THE ATS AND GENERATOR ENCLOSURE. THE EXACT POSITION AND HEIGHT TO BE DETERMINED IN THE FIELD.
- CONTRACTOR SHALL USE A APPROPRIATE MEANS TO PROTECT ALL EXISTING UTILITIES THAT ARE LOCATED WITHIN THE PROJECT AREA.
- THE EXTERIOR SURFACES OF THE CONCRETE STRUCTURE AND CONCRETE STAIRS (IF INSTALLED) EXPOSED ABOVE GRADE SHALL BE COATED WITH AT LEAST TWO COATS OF H & C SILICONE ACRYLIC CONCRETE STAIN, PATIO GREEN, MANUFACTURED BY FLR PAINTS, INC. THIS COST SHALL BE PART OF THE CONCRETE SLAB & SITE WORK BID ITEM.

PROJECT SITE



38-A, RTU 427, 5519 24TH ST E

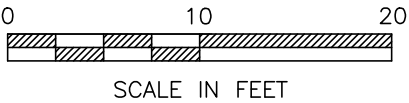
CONTRACTOR SHALL REFERENCE SECTION
16231 OF THE PROJECT SPECIFICATION
FOR RECORD DRAWING REQUIREMENTS.



ORIGINAL SHEET SIZE: 11"X17"
SATELLITE LIFT STATION R&R
EMERGENCY GENERATORS 2013 GROUP B

38-A RTU 427

NO.	REVISION DESCRIPTION	BY	DATE
1	added pump	JSS	10/6/14
2	rev. elev. from datum: 1929 to 1988	JSS	10/17/14
PROJECT # 402-0019707 / 5001308			
SURVEY # -			
SEC./TWN./RGE -			
SCALE SEE PLANS			
DESIGNED	BY	DATE	
DRAWN		11/20/13	
CHECKED		11/20/14	
JOHN S. SHOUN, P.E.			
FLORIDA P.E. # 20923			
STATE OF FLORIDA			
10/21/14			
PROFESSIONAL ENGINEER			
SHEET 3			

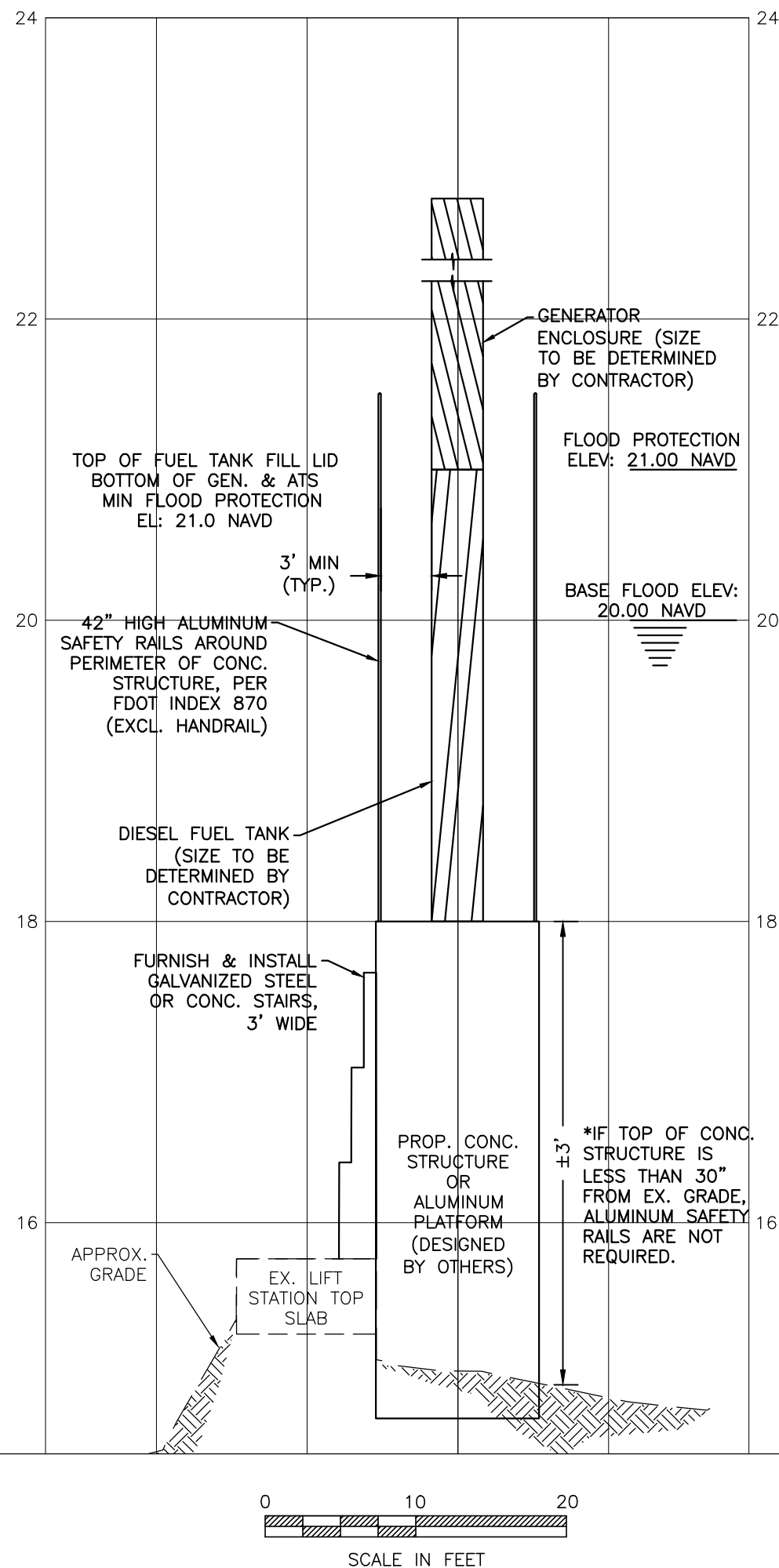


SEE SHEET 4 FOR
ELEVATION VIEW

**SATELLITE LIFT STATION R&R
EMERGENCY GENERATORS 2013 GROUP B
38-A RTU 427 (ELEVATION VIEW)**

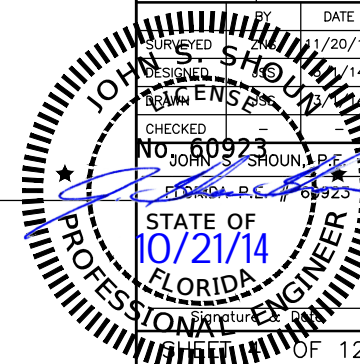
ORIGINAL SHEET SIZE: 11"X17"

DATE	10/17/14						
BY	JSS						
REVISION DESCRIPTION	rev. elev. from datum: 1929 to 1988						
NO.	1						
PROJECT #		402-0019707 5001308					
SURVEY #		-					
SEC./TWN./RGE		-					
SCALE		SEE PLANS					
BY		DATE					
SURVEYED		11/20/14					
DESIGNED		11/20/14					
DRAWN		11/20/14					
CHECKED		-					
No. 60923		-					
JOHN S. SHOWN, P.E.		-					
Florida P.E. # 60923		-					
STATE OF		FLORIDA					
10/21/14		10/21/14					
FLORIDA		FLORIDA					
Professional Engineer		Professional Engineer					
Signature		Signature					
Sheet		Sheet					
OF 12		OF 12					

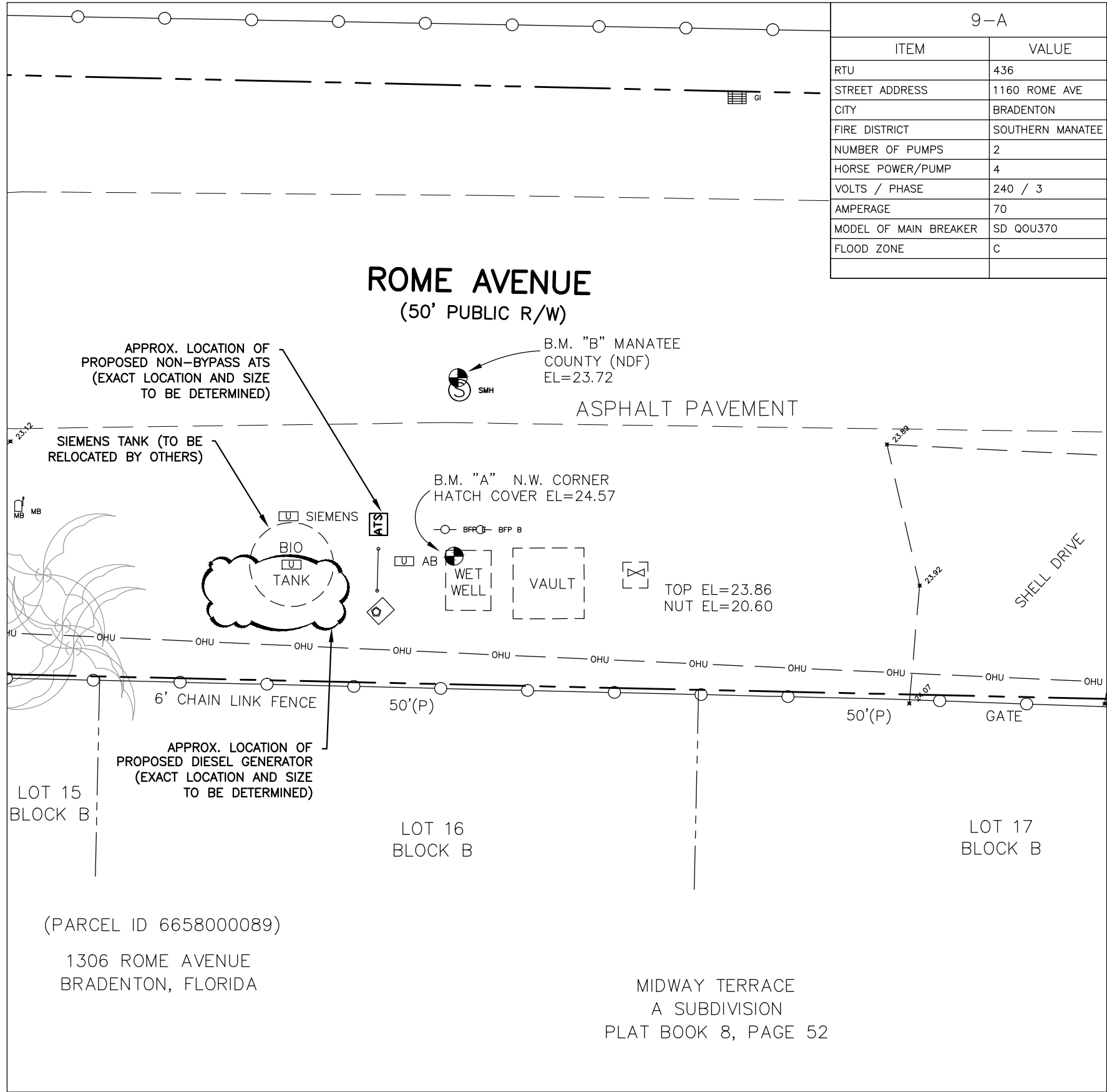


NOTES:

1. THE CONC. STRUCTURE OR ELEVATED PLATFORM, SAFETY RAILS, & STEPS SHALL MEET OSHA REQUIREMENTS.
2. ALL DIMENSIONS SHALL BE DETERMINED BY THE CONTRACTOR TO ACCOMMODATE THE EMERGENCY GENERATOR EQUIPMENT SUPPLIED BY THE SUPPLIER AND THE FLOODPLAIN ELEVATIONS.



\\SVRWD-Engineering_Shoun\Utl_Eng_Design\PROJECTS\San_Swr - LS Upgrades\Exhibit\2013 Group B - NAD 88.dwg, 5 9A, 436, 10/21/2014, 1:29 PM Shou, 1:1, ANSI full bleed B (17.00 x 11.00 inches)



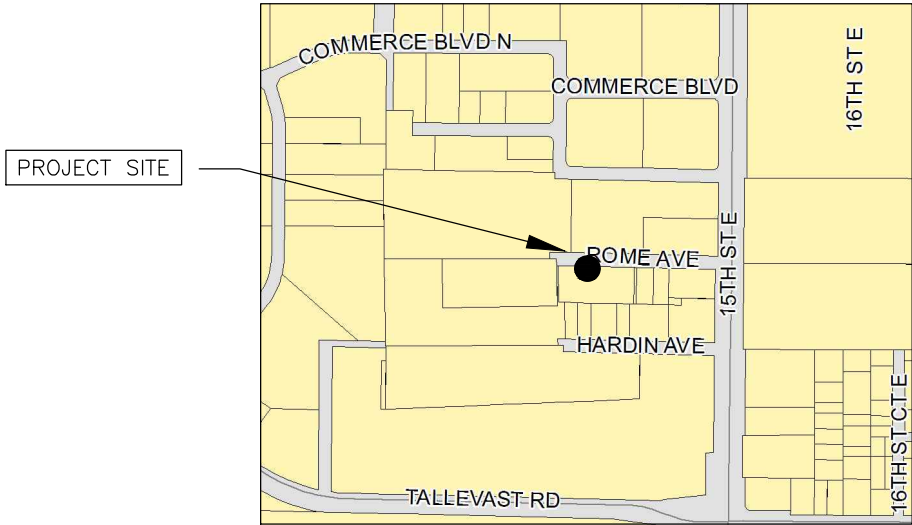
(PARCEL ID 6658000089)
1306 ROME AVENUE
BRADENTON, FLORIDA

MIDWAY TERRACE
A SUBDIVISION
PLAT BOOK 8, PAGE 52



- GENERAL NOTES:**
- BEARINGS ARE BASED ON THE SOUTH RIGHT OF WAY LINE OF ROME AVENUE HAVING A BEARING OF N 88°43'29" W AND ARE RELATED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, (WEST ZONE) NAD 83/90 DERIVED FROM CONTROL MONUMENT "MANATEE G. STROOP CORNERS" (DL7628).
 - THE PROPERTY LIES WITHIN FLOOD ZONE "C" AS SHOWN ON MANATEE COUNTY FLOOD INSURANCE RATE MAP PANEL No. 120153 0341 B, DATED MARCH 15, 1984, F.I.R.M. MAP INDEX REVISED JUNE 30, 1999.
 - ELEVATIONS (ORIGINAL) WERE BASED ON N.G.V.D. 1929 DATUM, FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION MARK "C 700" (PID DL1774), ELEVATION OF 23.89.
BENCH MARKS:
BM "A" SQUARE CUT IN N.E. CORNER OF HATCH COVER
EL. = 25.56' NGVD 1929 (EL. = 24.57' NAVD 1988)
BM "B" MANATEE COUNTY TRAVERSE POINT (NDF)
EL. = 24.71' NGVD 1929 (EL. = 23.72' NAVD 1988)
NOTE: NGVD 1929 CONVERTED TO NAVD 1988 BY SUBTRACTING 0.99' AS DICTATED BY NGS DATA SHEETS IN THIS AREA.
 - ALL ELEVATIONS IN THIS DRAWING HAVE BEEN CONVERTED FROM NGVD 1929 TO NAVD 1988 BY THE ENGINEER OF RECORD UTILIZING THE CONVERSION EQUATION PROVIDED BY THE SURVEYOR.
 - A PROFESSIONAL SURVEYOR LICENSED IN THE STATE OF FLORIDA SHALL BE REQUIRED TO PREPARE RECORD DRAWINGS OF THE PLACEMENT OF THE GENERATOR, ATS, AND UNDERGROUND CONDUIT INSTALLED ON THE LIFT STATION SITE.
 - ALL HORIZONTAL AND VERTICAL DISTANCES AND MEASUREMENTS SHALL BE FIELD VERIFIED PRIOR TO ORDERING MATERIALS AND COMMENCING WORK. ALL MEASUREMENTS AND CALCULATIONS SHALL BE THE RESPONSIBILITY OF THE AWARDED CONTRACTOR.
 - ANY ELECTRICAL WIRING THAT IS INSTALLED BETWEEN THE LIFT STATION'S WET WELL, VALVE VAULT, AND/OR METER VAULT SHALL BE INSTALLED IN A CARRIER PIPE THAT IS STRAPPED TO THE STRUCTURE.
 - THE CAPACITY OF THE DIESEL FUEL TANK SHALL BE SIZED TO THE MINIMAL FOOTPRINT & HEIGHT TO RUN THE GENERATOR CONTINUOUSLY FOR 96 HOURS AT 75% LOAD AS INDICATED IN THE SPECIFICATIONS. HOWEVER, THE DIESEL FUEL TANK SHALL NOT EXCEED 540 GALLONS.
 - THE OVERALL FUEL SYSTEM IS TO COMPLY WITH ALL APPLICABLE NFPA REGULATIONS AS WELL AS THOSE REQUIRED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION. THIS INCLUDES NFPA COMPLIANT LABELS FOR THE FUEL SHUT-OFF LOCATION AND APPLICATIONS OF DIESEL HAZMAT SYMBOL STICKERS.

- CONSTRUCTION NOTES:**
- CONCRETE STRUCTURE SIZE DEPENDS ON GENERATOR, ENCLOSURE, & FUEL TANK DIMENSIONS. CONTRACTOR TO SIZE GENERATOR & FUEL TANK FOR LIFT STATION REQUIREMENTS.
 - CONTRACTOR TO SUBMIT A REINFORCED CONCRETE SLAB DESIGN PER THE EMERGENCY GENERATOR SET SPECIFICATIONS; SECTION 16231, 2.06. THIS COST SHALL BE PART OF THE CONCRETE STRUCTURE & SITE WORK BID ITEM.
 - INSERT PREFORMED JOINT FILLER BETWEEN CONCRETE STRUCTURE & EX. CONCRETE.
 - CONTRACTOR SHALL USE A APPROPRIATE MEANS TO PROTECT ALL EXISTING UTILITIES THAT ARE LOCATED WITHIN THE PROJECT AREA.
 - THE EXTERIOR SURFACES OF THE CONCRETE STRUCTURE AND CONCRETE STAIRS (IF INSTALLED) EXPOSED ABOVE GRADE SHALL BE COATED WITH AT LEAST TWO COATS OF H & C SILICONE ACRYLIC CONCRETE STAIN, PATIO GREEN, MANUFACTURED BY FLR PAINTS, INC. THIS COST SHALL BE PART OF THE CONCRETE SLAB & SITE WORK BID ITEM.



9-A, RTU 436, 1160 ROME AVE

CONTRACTOR SHALL REFERENCE SECTION 16231 OF THE PROJECT SPECIFICATION FOR RECORD DRAWING REQUIREMENTS.



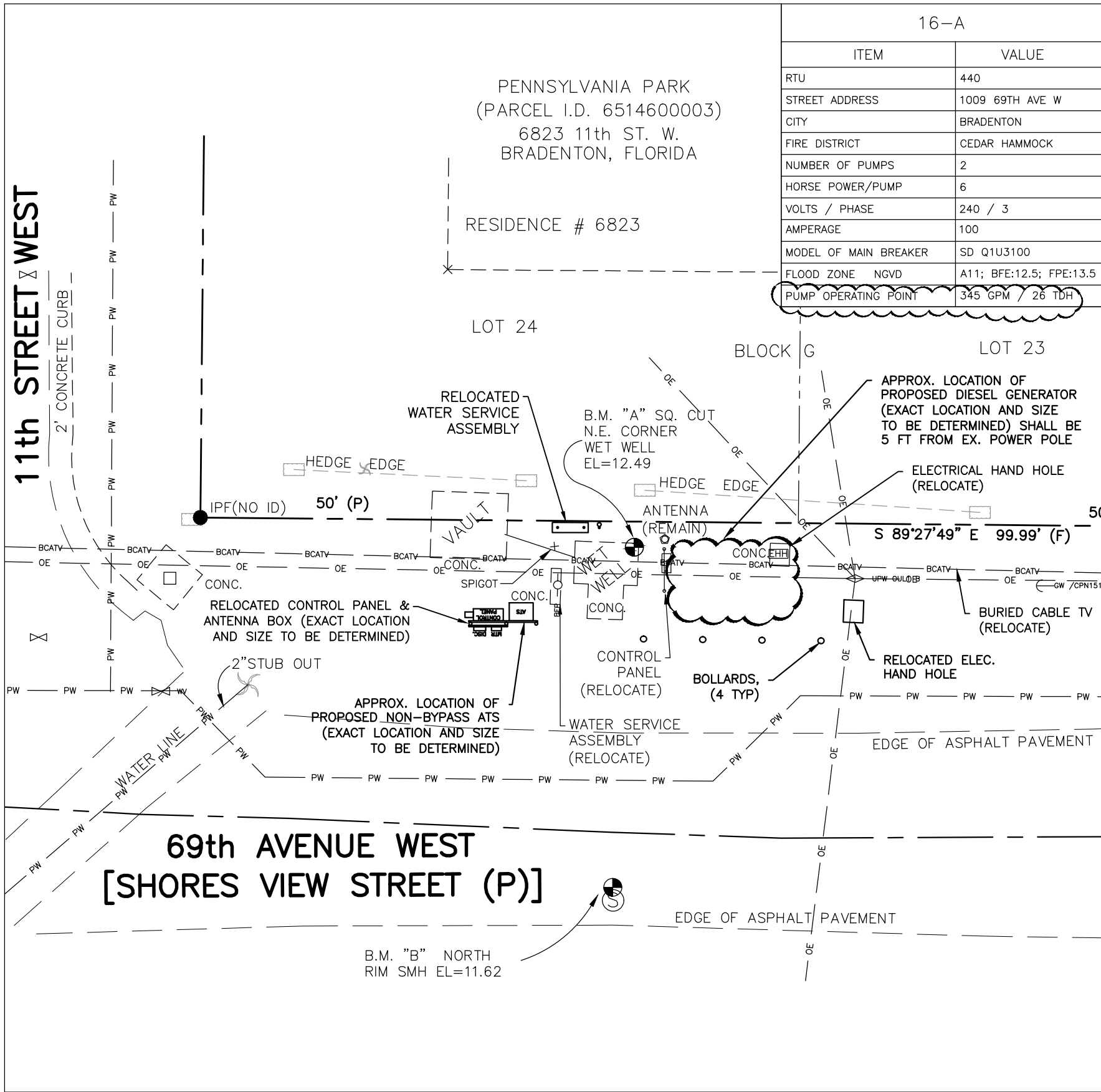
ORIGINAL SHEET SIZE: 11"X17"

**SATELLITE LIFT STATION R&R
EMERGENCY GENERATORS 2013 GROUP B**

9-A RTU 436

NO.	REVISION DESCRIPTION	BY	DATE
1	rev. elev. from datum: 1929 to 1988	JSS	10/17/14
PROJECT #	402-0019707 / 5001308		
SURVEY #	-		
SEC./TWN./RGE	-		
SCALE	SEE PLANS		
DESIGNED	BY	DATE	
CHECKED	BY	DATE	
NO. 60923	JOHN S. SHOUN, P.E.	11/20/13	
FLORIDA P.E. # 54023		11/20/14	
STATE OF			
FLORIDA			
PROFESSIONAL ENGINEER			
SHEET 13 OF 12			

\\SVRWD-Engineering\Shore\UHI_Eng_Design\PROJ\16-A RTU 440\16-A RTU 440.dwg, 1:1, ANSI full bleed B (17.00 x 11.00 inches)

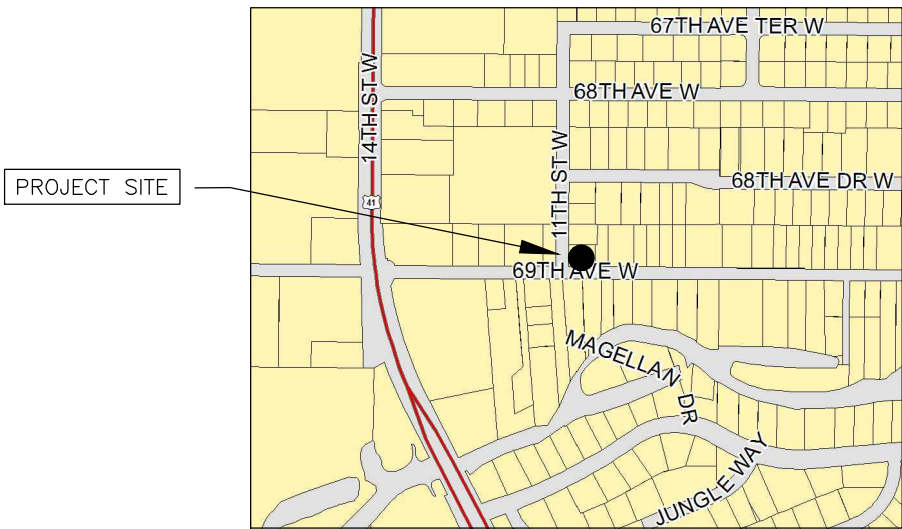


GENERAL NOTES:

- BEARINGS ARE BASED ON THE NORTH PLATTED RIGHT OF WAY LINE OF 69th AVENUE WEST, HAVING A BEARING OF S 89°27'49" E, AND ARE RELATED TO FLORIDA STATE PLANE COORDINATE SYSTEM (WEST ZONE) NAD 83/90 DERIVED FROM CONTROL MONUMENT MANATEE G. STROOP CORRS (DL7628).
- THE PROPERTY LIES WITHIN FLOOD ZONE "A11" AS SHOWN ON MANATEE COUNTY INSURANCE RATE MAP PANEL No. 120153 0337 B, REVISED MARCH 15, 1984, INDEX SHEET REVISED JUNE, 30, 1999.
- ELEVATIONS (ORIGINAL) WERE BASED ON N.G.V.D. 1929 DATUM, MANATEE COUNTY BENCH MARK "VOLUSIA 2011" (PID BBCJ51), ELEVATION OF 17.84, AS PUBLISHED.
BENCH MARKS:
BM "A" SQUARE CUT IN N.E. CORNER OF WET WELL
EL. = 13.48' NGVD 1929 (EL. = 12.49' NAVD 1988)
BM "B" NORTH RIM OF SANITARY MANHOLE
EL. = 12.61' NGVD 1929 (EL. = 11.62' NAVD 1988)
NOTE: NGVD 1929 CONVERTED TO NAVD 1988 BY SUBTRACTING 0.99' AS DICTATED BY NGS DATA SHEETS IN THIS AREA.
- ALL ELEVATIONS IN THIS DRAWING HAVE BEEN CONVERTED FROM NGVD 1929 TO NAVD 1988 BY THE ENGINEER OF RECORD UTILIZING THE CONVERSION EQUATION PROVIDED BY THE SURVEYOR.
- A PROFESSIONAL SURVEYOR LICENSED IN THE STATE OF FLORIDA SHALL BE REQUIRED TO PREPARE RECORD DRAWINGS OF THE PLACEMENT OF THE GENERATOR, ATS, AND UNDERGROUND CONDUIT INSTALLED ON THE LIFT STATION SITE.
- ALL HORIZONTAL AND VERTICAL DISTANCES AND MEASUREMENTS SHALL BE FIELD VERIFIED PRIOR TO ORDERING MATERIALS AND COMMENCING WORK. ALL MEASUREMENTS AND CALCULATIONS SHALL BE THE RESPONSIBILITY OF THE AWARDED CONTRACTOR.
- ANY ELECTRICAL WIRING THAT IS INSTALLED BETWEEN THE LIFT STATION'S WET WELL, VALVE VAULT, AND/OR METER VAULT SHALL BE INSTALLED IN A CARRIER PIPE THAT IS STRAPPED TO THE STRUCTURE.
- THE CAPACITY OF THE DIESEL FUEL TANK SHALL BE SIZED TO THE MINIMAL FOOTPRINT & HEIGHT TO RUN THE GENERATOR CONTINUOUSLY FOR 96 HOURS AT 75% LOAD AS INDICATED IN THE SPECIFICATIONS. HOWEVER, THE DIESEL FUEL TANK SHALL NOT EXCEED 540 GALLONS.
- THE OVERALL FUEL SYSTEM IS TO COMPLY WITH ALL APPLICABLE NFPA REGULATIONS AS WELL AS THOSE REQUIRED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION. THIS INCLUDES NFPA COMPLIANT LABELS FOR THE FUEL SHUT-OFF LOCATION AND APPLICATIONS OF DIESEL HAZARD SYMBOL STICKERS.
- THE COST OF THE RELOCATION OF THE EX. ELECTRICAL HAND HOLE SHALL BE BID UNDER BID ITEM 11: MISCELLANEOUS WORK, CLEAN UP, & RESTORATION.
- L.S. 16-A IS LOCATED IN A FLOOD ZONE "A1" WITH A BASE FLOOD ELEVATION OF 11.50 NAVD. THE RIM OF THE DIESEL FUEL CAP, BASE OF GENERATOR, AND BOTTOM OF ATS SHALL BE ABOVE THE BASE FLOOD ELEVATION BY ONE (1) FOOT. A FLOOD REVIEW & ELEVATION CERTIFICATE PREPARED BY A LICENSED SURVEYOR IN THE STATE OF FLORIDA WILL BE REQUIRED FOR THIS LIFT STATION SITE.

CONSTRUCTION NOTES:

- CONCRETE STRUCTURE SIZE DEPENDS ON GENERATOR, ENCLOSURE, & FUEL TANK DIMENSIONS. CONTRACTOR TO SIZE GENERATOR & FUEL TANK FOR LIFT STATION REQUIREMENTS.
- CONTRACTOR TO SUBMIT A REINFORCED CONCRETE SLAB DESIGN PER THE EMERGENCY GENERATOR SET SPECIFICATIONS; SECTION 16231, 2.06. THIS COST SHALL BE PART OF THE CONCRETE STRUCTURE & SITE WORK BID ITEM.
- INSERT PREFORMED JOINT FILLER BETWEEN CONCRETE STRUCTURE & CONCRETE STAIRS OR EX. CONCRETE.
- CONTRACTOR SHALL USE A APPROPRIATE MEANS TO PROTECT ALL EXISTING UTILITIES THAT ARE LOCATED WITHIN THE PROJECT AREA.
- THE EXTERIOR SURFACES OF THE CONCRETE STRUCTURE AND CONCRETE STAIRS (IF INSTALLED) EXPOSED ABOVE GRADE SHALL BE COATED WITH AT LEAST TWO COATS OF H & C SILICONE ACRYLIC CONCRETE STAIN, PATIO GREEN, MANUFACTURED BY FLR PAINTS, INC. THIS COST SHALL BE PART OF THE CONCRETE SLAB & SITE WORK BID ITEM.



CONTRACTOR SHALL REFERENCE SECTION 16231 OF THE PROJECT SPECIFICATION FOR RECORD DRAWING REQUIREMENTS.

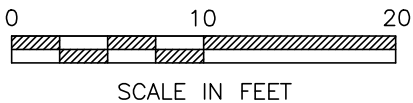
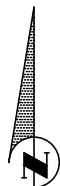


ORIGINAL SHEET SIZE: 11"X17"

SATELLITE LIFT STATION R&R
EMERGENCY GENERATORS 2013 GROUP B

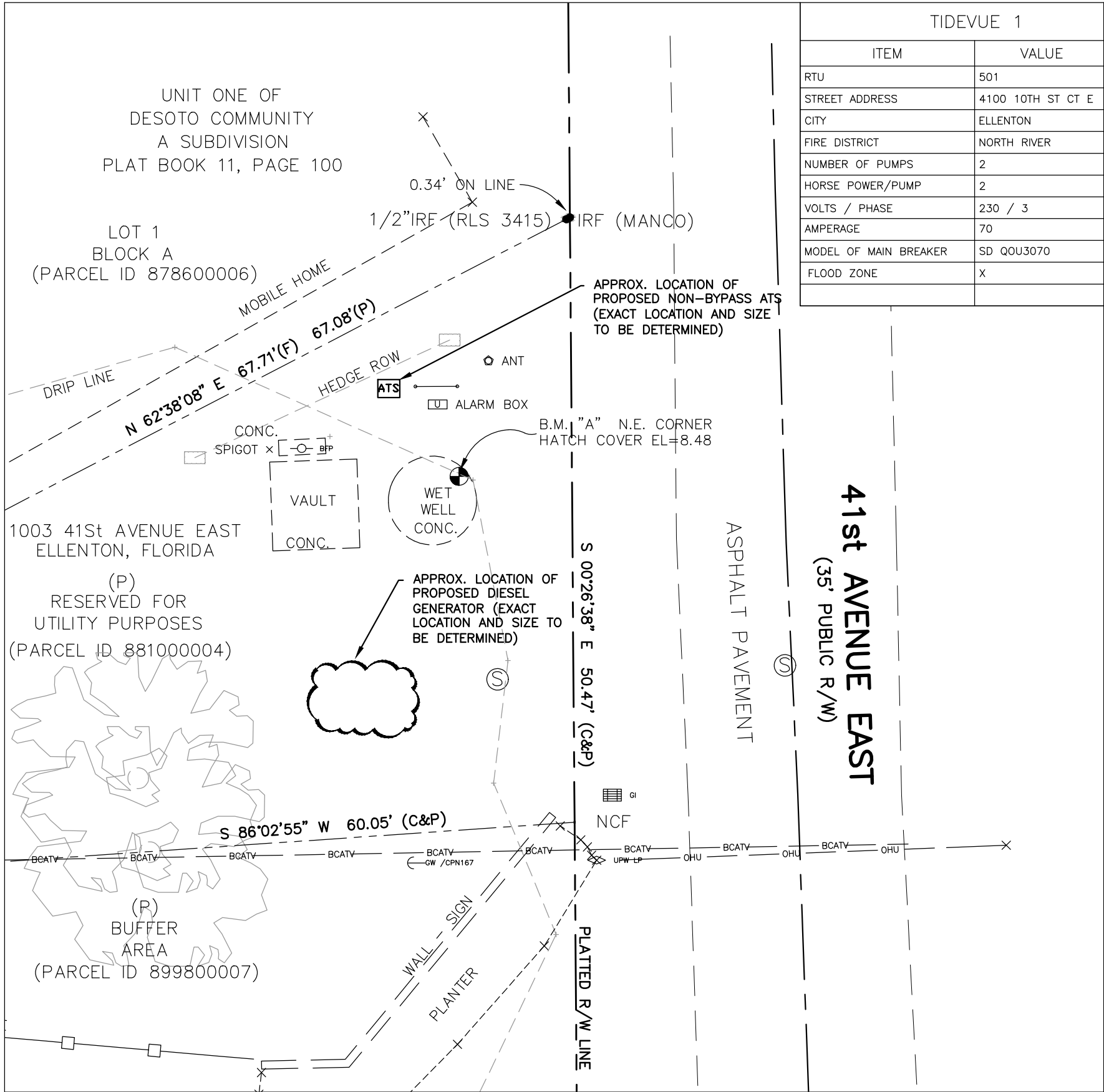
16-A RTU 440

NO.	REVISION DESCRIPTION	BY	DATE
1	added pump & note	JSS	10/6/14
2	rev. elev. from datum: 1929 to 1988	JSS	10/17/14
PROJECT # 402-0019707 / 5001308			
SURVEY # -			
SEC./TWN./RGE -			
SCALE SEE PLANS			
BY DATE			
SURVEYED 11/20/13			
DESIGNED 11/14			
CHECKED 10/21/14			
STATE OF FLORIDA			
PROFESSIONAL ENGINEER			



Know what's below.
Call before you dig.

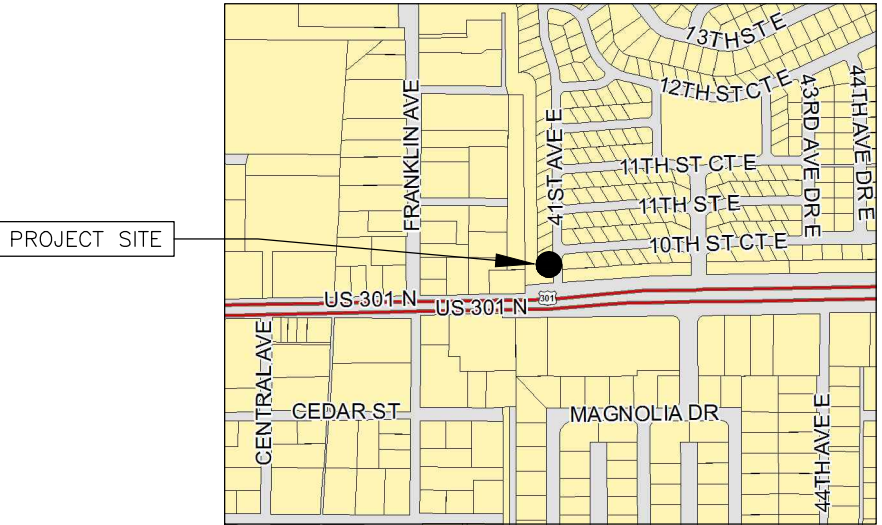
\\S:\P\WD_Engineering_Share\UHI_Eng_Design\PROJ\1-SAN_SHR_Proj\San_Swr - LS_Upgrade\Exh\2013_Egna\Group_B\UNOS\active-SLS_R&R_Egna_2013_Group_B - NAD 88.dwg, 7 TIDEVUE 1 501, 10/21/2014, 1:28 PM Shep Shoun, 1:1, ANSI full bleed B (7.00 x 11.00 inches)



TIDEVUE 1	
ITEM	VALUE
RTU	501
STREET ADDRESS	4100 10TH ST CT E
CITY	ELLENTON
FIRE DISTRICT	NORTH RIVER
NUMBER OF PUMPS	2
HORSE POWER/PUMP	2
VOLTS / PHASE	230 / 3
AMPERAGE	70
MODEL OF MAIN BREAKER	SD QOU3070
FLOOD ZONE	X

- GENERAL NOTES:**
- BEARINGS ARE BASED ON THE SOUTH LINE OF LOT 1 BLOCK A OF UNIT ONE OF DESOTO COMMUNITY, A SUBDIVISION, PLAT BOOK 11, PAGE 100 OF THE PUBLIC RECORDS OF MANATEE COUNTY, FLORIDA, HAVING A BEARING OF N 62°38'08" E AND ARE RELATED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, (WEST ZONE) NAD 83/90 DERIVED FROM CONTROL MONUMENT "MANATEE G. STROOP CORRS" (DL7628).
 - THE PROPERTY LIES WITHIN FLOOD ZONE "A3" AS SHOWN ON MANATEE COUNTY FLOOD INSURANCE RATE MAP PANEL No. 120153 0333 B, DATED MARCH 15, 1984, F.I.R.M. MAP INDEX REVISED JUNE 30, 1999.
 - ELEVATIONS (ORIGINAL) WERE BASED ON N.G.V.D. 1929 DATUM, MANATEE COUNTY BENCH MARK "157-29-05", ELEVATION OF 11.54.
BENCH MARKS:
BM "A" SQUARE CUT IN N.E. CORNER OF HATCH COVER
EL. = 9.47' NGVD 1929 (EL. = 8.48' NAVD 1988)
BM "B" MANATEE COUNTY TRAVERSE POINT (NDF)
EL. = 8.00' NGVD 1929 (EL. = 7.01' NAVD 1988)
NOTE: NGVD 1929 CONVERTED TO NAVD 1988 BY SUBTRACTING 0.99' AS DICTATED BY NGS DATA SHEETS IN THIS AREA.
 - ALL ELEVATIONS IN THIS DRAWING HAVE BEEN CONVERTED FROM NGVD 1929 TO NAVD 1988 BY THE ENGINEER OF RECORD UTILIZING THE CONVERSION EQUATION PROVIDED BY THE SURVEYOR.
 - A PROFESSIONAL SURVEYOR LICENSED IN THE STATE OF FLORIDA SHALL BE REQUIRED TO PREPARE RECORD DRAWINGS OF THE PLACEMENT OF THE GENERATOR, ATS, AND UNDERGROUND CONDUIT INSTALLED ON THE LIFT STATION SITE.
 - ALL HORIZONTAL AND VERTICAL DISTANCES AND MEASUREMENTS SHALL BE FIELD VERIFIED PRIOR TO ORDERING MATERIALS AND COMMENCING WORK. ALL MEASUREMENTS AND CALCULATIONS SHALL BE THE RESPONSIBILITY OF THE AWARDED CONTRACTOR.
 - ANY ELECTRICAL WIRING THAT IS INSTALLED BETWEEN THE LIFT STATION'S WET WELL, VALVE VAULT, AND/OR METER VAULT SHALL BE INSTALLED IN A CARRIER PIPE THAT IS STRAPPED TO THE STRUCTURE.
 - THE CAPACITY OF THE DIESEL FUEL TANK SHALL BE SIZED TO THE MINIMAL FOOTPRINT & HEIGHT TO RUN THE GENERATOR CONTINUOUSLY FOR 96 HOURS AT 75% LOAD AS INDICATED IN THE SPECIFICATIONS. HOWEVER, THE DIESEL FUEL TANK SHALL NOT EXCEED 540 GALLONS.
 - THE OVERALL FUEL SYSTEM IS TO COMPLY WITH ALL APPLICABLE NFPA REGULATIONS AS WELL AS THOSE REQUIRED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION. THIS INCLUDES NFPA COMPLIANT LABELS FOR THE FUEL SHUT-OFF LOCATION AND APPLICATIONS OF DIESEL HAZMAT SYMBOL STICKERS.

- CONSTRUCTION NOTES:**
- CONCRETE STRUCTURE SIZE DEPENDS ON GENERATOR, ENCLOSURE, & FUEL TANK DIMENSIONS. CONTRACTOR TO SIZE GENERATOR & FUEL TANK FOR LIFT STATION REQUIREMENTS.
 - CONTRACTOR TO SUBMIT A REINFORCED CONCRETE SLAB DESIGN PER THE EMERGENCY GENERATOR SET SPECIFICATIONS; SECTION 16231, 2.06. THIS COST SHALL BE PART OF THE CONCRETE STRUCTURE & SITE WORK BID ITEM.
 - INSERT PREFORMED JOINT FILLER BETWEEN CONCRETE STRUCTURE & EX. CONCRETE.
 - CONTRACTOR SHALL USE A APPROPRIATE MEANS TO PROTECT ALL EXISTING UTILITIES THAT ARE LOCATED WITHIN THE PROJECT AREA.
 - THE EXTERIOR SURFACES OF THE CONCRETE STRUCTURE AND CONCRETE STAIRS (IF INSTALLED) EXPOSED ABOVE GRADE SHALL BE COATED WITH AT LEAST TWO COATS OF H & C SILICONE ACRYLIC CONCRETE STAIN, PATIO GREEN, MANUFACTURED BY FLR PAINTS, INC. THIS COST SHALL BE PART OF THE CONCRETE SLAB & SITE WORK BID ITEM.



TIDEVUE 1, RTU 501, 4100 10TH ST CT E

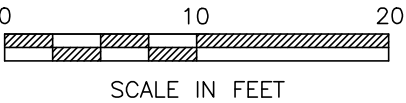
CONTRACTOR SHALL REFERENCE SECTION 16231 OF THE PROJECT SPECIFICATION FOR RECORD DRAWING REQUIREMENTS.



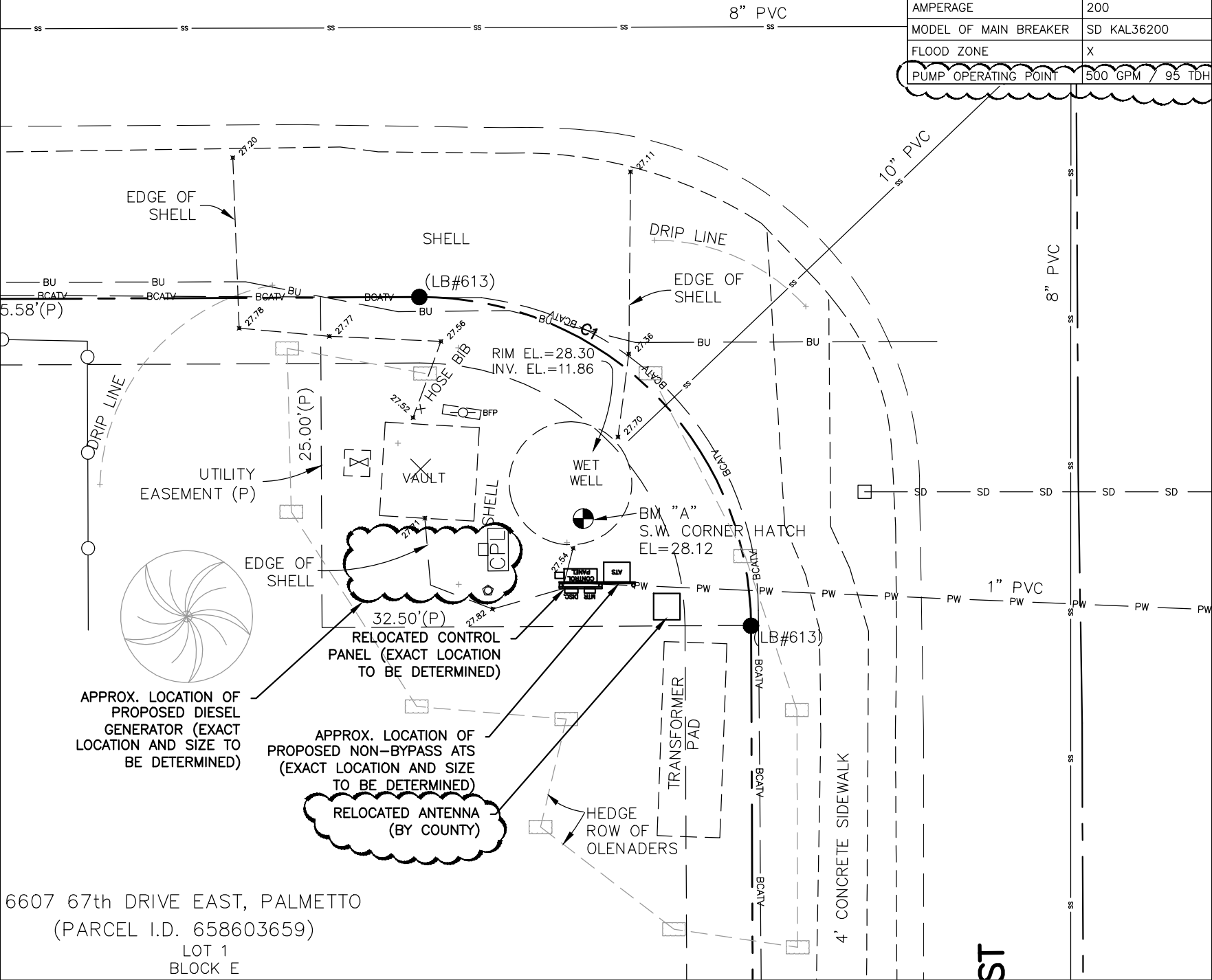
ORIGINAL SHEET SIZE: 11"X17"
SATELLITE LIFT STATION R&R
EMERGENCY GENERATORS 2013 GROUP B
TIDEVUE 1 RTU 501

NO.	REVISION DESCRIPTION	BY	DATE
1	rev. elev. from datum: 1929 to 1988	JSS	10/17/14

PROJECT #	402-0019707 / 5001308
SURVEY #	-
SEC./TWN./RGE	-
SCALE	SEE PLANS
CHECKED	DATE
JOHN S. SHOUN, P.E.	10/20/13
FLORIDA P.E. # 60923	10/20/13
STATE OF FLORIDA	10/21/14
PROFESSIONAL ENGINEER	10/21/14



67th STREET EAST
(50' PLATTED R/W)
24' WIDE ASPHALT PAVEMENT



HEATHER GLENN	
ITEM	VALUE
RTU	560
STREET ADDRESS	6609 67TH ST E
CITY	PARRISH
FIRE DISTRICT	NORTH RIVER
NUMBER OF PUMPS	2
HORSE POWER/PUMP	25
VOLTS / PHASE	230 / 3
AMPERAGE	200
MODEL OF MAIN BREAKER	SD KAL36200
FLOOD ZONE	X
PUMP OPERATING POINT	500 GPM / 95 TDH

- GENERAL NOTES:**
- BEARINGS ARE BASED ON THE SOUTH PLATTED RIGHT OF WAY LINE OF 67th STREET EAST, HAVING A BEARING OF S 89°44'00" W, AND ARE RELATED TO FLORIDA STATE PLANE COORDINATE SYSTEM (WEST ZONE) NAD 83/90 DERIVED FROM CONTROL MONUMENT MANATEE G. STROOP CORRS (DL7628).
 - THE PROPERTY LIES WITHIN FLOOD ZONE "C", AS SHOWN ON MANATEE COUNTY INSURANCE RATE MAP PANEL No. 120153 0205 B, REVISED MARCH 15, 1984, INDEX SHEET REVISED JUNE, 30, 1999.
 - ELEVATIONS (ORIGINAL) WERE BASED ON N.G.V.D. 1929 DATUM, MANATEE COUNTY BENCH MARK "PLUMB BOB 2009" (PID BBCJ88), ELEVATION OF 29.597.
BENCH MARKS:
BM "A" S.W. CORNER OF HATCH
EL. = 29.11' NGVD 1929 (EL. = 28.12' NAVD 1988)
BM "B" NORTH RIM OF SANITARY MANHOLE
EL. = 28.07' NGVD 1929 (EL. = 27.08' NAVD 1988)
NOTE: NGVD 1929 CONVERTED TO NAVD 1988 BY SUBTRACTING 0.99' AS DICTATED BY NGS DATA SHEETS IN THIS AREA.
 - ALL ELEVATIONS IN THIS DRAWING HAVE BEEN CONVERTED FROM NGVD 1929 TO NAVD 1988 BY THE ENGINEER OF RECORD UTILIZING THE CONVERSION EQUATION PROVIDED BY THE SURVEYOR.
 - A PROFESSIONAL SURVEYOR LICENSED IN THE STATE OF FLORIDA SHALL BE REQUIRED TO PREPARE RECORD DRAWINGS OF THE PLACEMENT OF THE GENERATOR, ATS, AND UNDERGROUND CONDUIT INSTALLED ON THE LIFT STATION SITE.
 - ALL HORIZONTAL AND VERTICAL DISTANCES AND MEASUREMENTS SHALL BE FIELD VERIFIED PRIOR TO ORDERING MATERIALS AND COMMENCING WORK. ALL MEASUREMENTS AND CALCULATIONS SHALL BE THE RESPONSIBILITY OF THE AWARDED CONTRACTOR.
 - ANY ELECTRICAL WIRING THAT IS INSTALLED BETWEEN THE LIFT STATION'S WET WELL, VALVE VAULT, AND/OR METER VAULT SHALL BE INSTALLED IN A CARRIER PIPE THAT IS STRAPPED TO THE STRUCTURE.
 - THE CAPACITY OF THE DIESEL FUEL TANK SHALL BE SIZED TO THE MINIMAL FOOTPRINT & HEIGHT TO RUN THE GENERATOR CONTINUOUSLY FOR 96 HOURS AT 75% LOAD AS INDICATED IN THE SPECIFICATIONS. HOWEVER, THE DIESEL FUEL TANK SHALL NOT EXCEED 540 GALLONS.
 - THE OVERALL FUEL SYSTEM IS TO COMPLY WITH ALL APPLICABLE NFPA REGULATIONS AS WELL AS THOSE REQUIRED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION. THIS INCLUDES NFPA COMPLIANT LABELS FOR THE FUEL SHUT-OFF LOCATION AND APPLICATIONS OF DIESEL HAZMAT SYMBOL STICKERS.

- CONSTRUCTION NOTES:**
- CONCRETE STRUCTURE SIZE DEPENDS ON GENERATOR, ENCLOSURE, & FUEL TANK DIMENSIONS. CONTRACTOR TO SIZE GENERATOR & FUEL TANK FOR LIFT STATION REQUIREMENTS.
 - CONTRACTOR TO SUBMIT A REINFORCED CONCRETE SLAB DESIGN PER THE EMERGENCY GENERATOR SET SPECIFICATIONS; SECTION 16231, 2.06. THIS COST SHALL BE PART OF THE CONCRETE STRUCTURE & SITE WORK BID ITEM.
 - INSERT PREFORMED JOINT FILLER BETWEEN CONCRETE STRUCTURE & EX. CONCRETE.
 - CONTRACTOR SHALL USE A APPROPRIATE MEANS TO PROTECT ALL EXISTING UTILITIES THAT ARE LOCATED WITHIN THE PROJECT AREA.
 - THE EXTERIOR SURFACES OF THE CONCRETE STRUCTURE AND CONCRETE STAIRS (IF INSTALLED) EXPOSED ABOVE GRADE SHALL BE COATED WITH AT LEAST TWO COATS OF H & C SILICONE ACRYLIC CONCRETE STAIN, PATIO GREEN, MANUFACTURED BY FLR PAINTS, INC. THIS COST SHALL BE PART OF THE CONCRETE SLAB & SITE WORK BID ITEM.



HEATHER GLENN, RTU 560, 6609 67TH ST E



ORIGINAL SHEET SIZE: 11"X17"

SATELLITE LIFT STATION R&R
EMERGENCY GENERATORS 2013 GROUP B

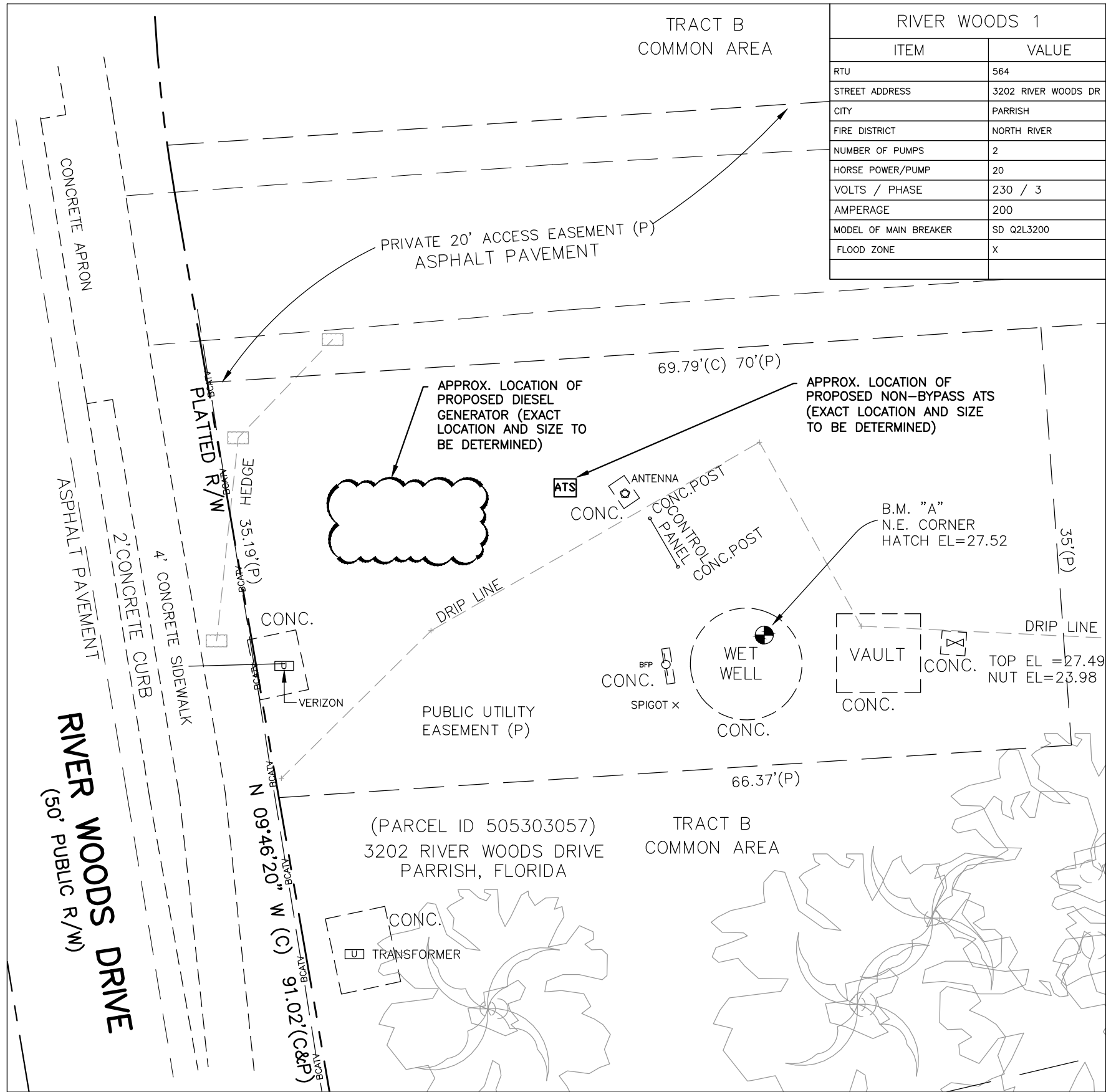
HEATHER GLENN RTU 560

NO.	REVISION DESCRIPTION	BY	DATE
1	added pump	JSS	10/6/14
2	rev. elev. from datum: 1929 to 1988	JSS	10/17/14

PROJECT #	402-0019707 / 5001308
SURVEY #	-
SEC./TWN./RGE	-
SCALE	SEE PLANS
CHECKED	10-60923
DESIGNED	JOHN SHOUN
DATE	10/21/14
STATE OF	FLORIDA
PROFESSIONAL ENGINEER	

S:\PMD_Engineering_Short\Utl_Eng_Design\PROJ\SSAN_SMR_Proj\San_Swr - LS Upgrades\Draws\2013 Egen\Group B\DWG\Station-SLS R&R Egen 2013 Group B - NAD 88.dwg, 8/10/2014 1:29 PM Shea Shoun, 1:1, ANSI full bleed B (17.00 x 11.00 inches)

\\S:\PMD_Engineering\Shawn\Utl_Eng_Design\PROJECTS\SAN_SHR_Proj\San_Shr - LS_Updates\Drawings\2013_Egna\Group B\UNOS\Utility-SLS_R&R_Egna 2013 Group B - NAD 88.dwg, 9 RIVER 564, 10/21/2014 1:29 PM, Shou, 1:1, ANSI full bleed B (17.00 x 11.00 inches)



CONTRACTOR SHALL REFERENCE SECTION 16231 OF THE PROJECT SPECIFICATION FOR RECORD DRAWING REQUIREMENTS.



GENERAL NOTES:

1. BEARINGS ARE BASED ON THE EAST PLATTED RIGHT OF WAY LINE OF RIVER WOODS DRIVE, HAVING A BEARING OF N 02°35'13" E AND ARE RELATED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, (WEST ZONE) NAD 83/90 DERIVED FROM CONTROL MONUMENT "MANATEE G. STROOP CORN" (DL7628).
2. THE PROPERTY LIES WITHIN FLOOD ZONE "X" AS SHOWN ON MANATEE COUNTY FLOOD INSURANCE RATE MAP PANEL No. 120153 0215 C, DATED JULY 15, 1992, F.I.R.M. MAP INDEX REVISED JUNE 30, 1999.
3. ELEVATIONS (ORIGINAL) WERE BASED ON N.G.V.D. 1929 DATUM, AND ARE DERIVED FROM RIVER WOODS PLAT BENCH MARK #2, HAVING A PUBLISHED ELEVATION OF 32.24'.

BENCH MARKS:

- BM "A" N.E. CORNER OF HATCH
EL. = 28.51' NGVD 1929 (EL. = 27.52' NAVD 1988)
- BM "B" NORTH BOLT FIRE HYDRANT
EL. = 32.24' NGVD 1929 (EL. = 31.25' NAVD 1988)

NOTE: NGVD 1929 CONVERTED TO NAVD 1988 BY SUBTRACTING

0.99' AS DICTATED BY NGS DATA SHEETS IN THIS AREA

4. ALL ELEVATIONS IN THIS DRAWING HAVE BEEN CONVERTED FROM NGVD 1929 TO NAVD 1988 BY THE ENGINEER OF RECORD UTILIZING THE CONVERSION EQUATION PROVIDED BY THE SURVEYOR.
5. A PROFESSIONAL SURVEYOR LICENSED IN THE STATE OF FLORIDA SHALL BE REQUIRED TO PREPARE RECORD DRAWINGS OF THE PLACEMENT OF THE GENERATOR, ATS, AND UNDERGROUND CONDUIT INSTALLED ON THE LIFT STATION SITE.
6. ALL HORIZONTAL AND VERTICAL DISTANCES AND MEASUREMENTS SHALL BE FIELD VERIFIED PRIOR TO ORDERING MATERIALS AND COMMENCING WORK. ALL MEASUREMENTS AND CALCULATIONS SHALL BE THE RESPONSIBILITY OF THE AWARDED CONTRACTOR.
7. ANY ELECTRICAL WIRING THAT IS INSTALLED BETWEEN THE LIFT STATION'S WET WELL, VALVE VAULT, AND/OR METER VAULT SHALL BE INSTALLED IN A CARRIER PIPE THAT IS STRAPPED TO THE STRUCTURE.
8. THE CAPACITY OF THE DIESEL FUEL TANK SHALL BE SIZED TO THE MINIMAL FOOTPRINT & HEIGHT TO RUN THE GENERATOR CONTINUOUSLY FOR 96 HOURS AT 75% LOAD AS INDICATED IN THE SPECIFICATIONS. HOWEVER, THE DIESEL FUEL TANK SHALL NOT EXCEED 540 GALLONS.
9. THE OVERALL FUEL SYSTEM IS TO COMPLY WITH ALL APPLICABLE NFPA REGULATIONS AS WELL AS THOSE REQUIRED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION. THIS INCLUDES NFPA COMPLIANT LABELS FOR THE FUEL SHUT-OFF LOCATION AND APPLICATIONS OF DIESEL HAZMAT SYMBOL STICKERS.

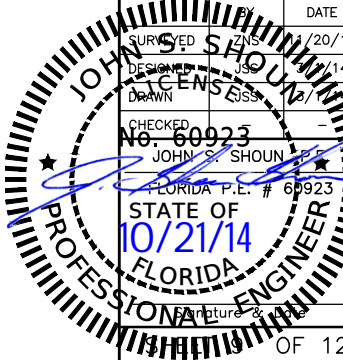
CONSTRUCTION NOTES:

1. CONCRETE STRUCTURE SIZE DEPENDS ON GENERATOR, ENCLOSURE, & FUEL TANK DIMENSIONS. CONTRACTOR TO SIZE GENERATOR & FUEL TANK FOR LIFT STATION REQUIREMENTS.
2. CONTRACTOR TO SUBMIT A REINFORCED CONCRETE SLAB DESIGN PER THE EMERGENCY GENERATOR SET SPECIFICATIONS; SECTION 16231, 2.06. THIS COST SHALL BE PART OF THE CONCRETE STRUCTURE & SITE WORK BID ITEM.
3. INSERT PREFORMED JOINT FILLER BETWEEN CONCRETE STRUCTURE & EX. CONCRETE.
4. CONTRACTOR SHALL USE A APPROPRIATE MEANS TO PROTECT ALL EXISTING UTILITIES THAT ARE LOCATED WITHIN THE PROJECT AREA.
5. THE EXTERIOR SURFACES OF THE CONCRETE STRUCTURE AND CONCRETE STAIRS (IF INSTALLED) EXPOSED ABOVE GRADE SHALL BE COATED WITH AT LEAST TWO COATS OF H & C SILICONE ACRYLIC CONCRETE STAIN, PATIO GREEN, MANUFACTURED BY FLR PAINTS, INC. THIS COST SHALL BE PART OF THE CONCRETE SLAB & SITE WORK BID ITEM.

PROJECT SITE



RIVER WOODS 1, RTU 564, 3202 RIVER WOODS DR



ORIGINAL SHEET SIZE: 11"X17"

SATELLITE LIFT STATION R&R
EMERGENCY GENERATORS 2013 GROUP B

RIVER WOODS 1 RTU 564

NO.	REVISION DESCRIPTION	BY	DATE
1	rev. elev. from datum: 1929 to 1988	JSS	10/17/14

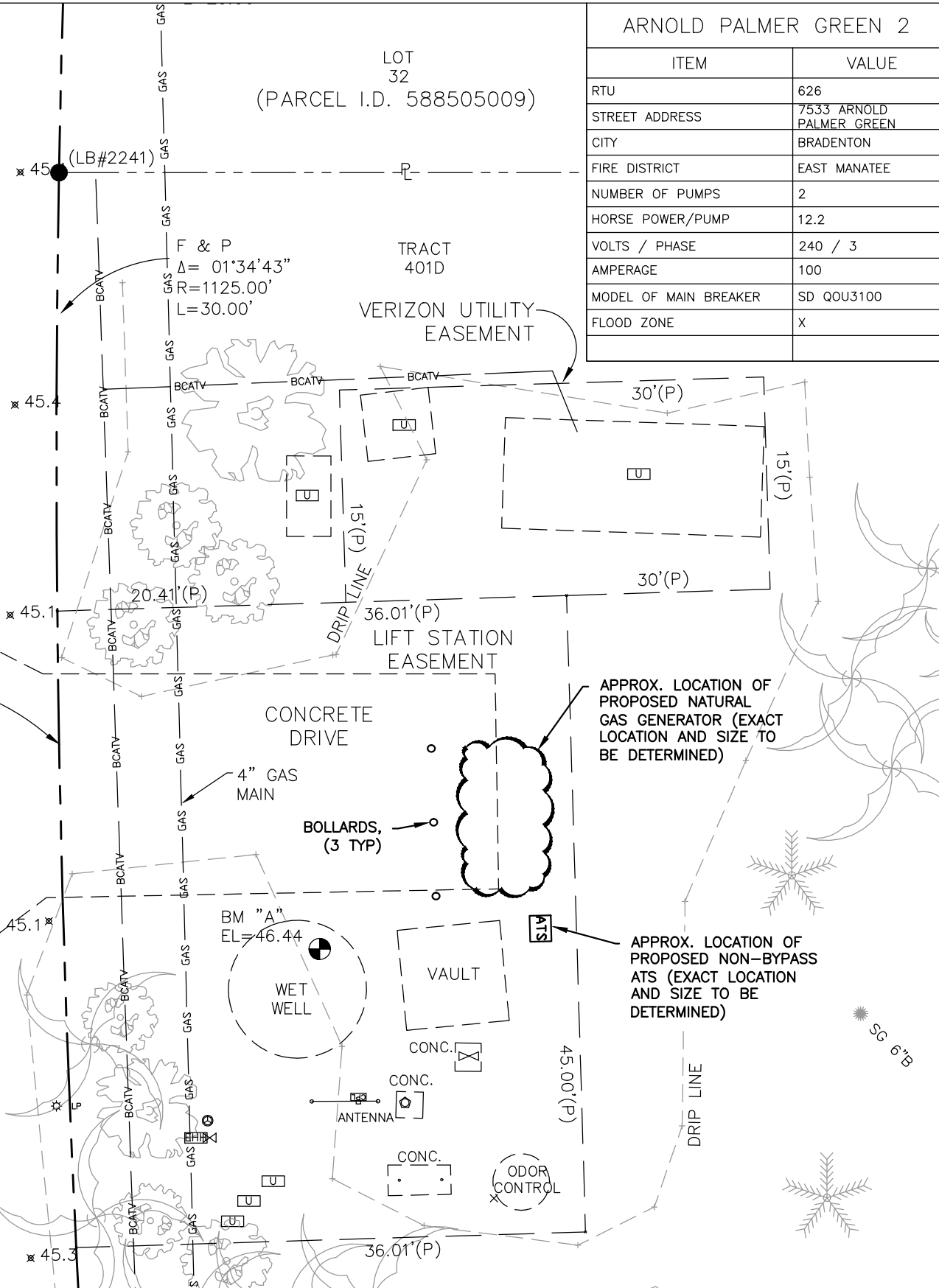
PROJECT #	402-0019707 / 5001308
SURVEY #	-
SEC./TWN./RGE	-
SCALE	SEE PLANS
DATE	10/20/13
DRAWN	JOHN SHOU
CHECKED	JOHN SHOU
FLORIDA P.E. #	60923
STATE OF	FLORIDA
PROFESSIONAL ENGINEER	

\\SVRWD-Engineering\Share\UHI_Eng_Design\PROJ\SSAN_SMR_Proj\San_Swr - LS Upgrades\Draws\2013_Egna\Group B\UNGS\Utility-SLS_R&R_Egns\2013_Group B - NAD 88.dwg, 10 ARNOLD 626, 10/21/2014 1:29 PM Shea Shoun, 1:1, ANSI full bleed B (17.00 x 11.00 inches)

ARNOLD PALMER GREEN
(50' R/W)
(24' WIDE ASPHALT PAVEMENT)

$\Delta = 02^{\circ}17'30''$
 $R = 1125.00'$
 $L = 45.00'$

BM "B"
N. RIM ON
SMH EL=44.96



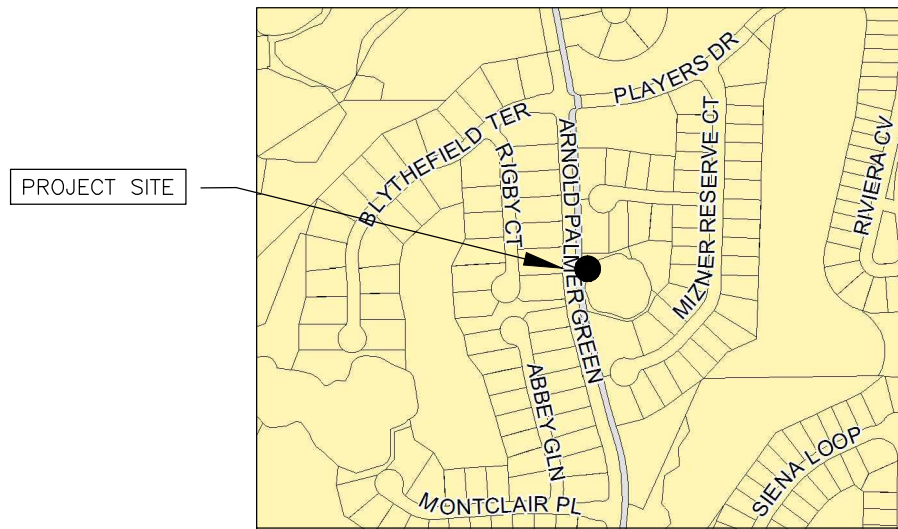
ARNOLD PALMER GREEN 2	
ITEM	VALUE
RTU	626
STREET ADDRESS	7533 ARNOLD PALMER GREEN
CITY	BRADENTON
FIRE DISTRICT	EAST MANATEE
NUMBER OF PUMPS	2
HORSE POWER/PUMP	12.2
VOLTS / PHASE	240 / 3
AMPERAGE	100
MODEL OF MAIN BREAKER	SD QOU3100
FLOOD ZONE	X

GENERAL NOTES:

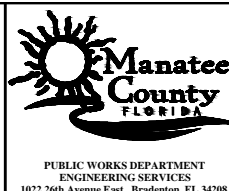
- BEARINGS ARE BASED ON THE EAST PLATTED RIGHT OF WAY LINE OF ARNOLD PALMER GREEN, HAVING A CHORD BEARING OF S 07°10'50" W, AND ARE RELATED TO FLORIDA STATE PLANE COORDINATE SYSTEM (WEST ZONE) NAD 83/90 DERIVED FROM CONTROL MONUMENT MANATEE G. STROOP CORRS (DL7628).
- THE PROPERTY LIES WITHIN FLOOD ZONE "X", AS SHOWN ON MANATEE COUNTY INSURANCE RATE MAP PANEL No. 120153 0370 C, REVISED JULY 15, 1992, INDEX SHEET REVISED JUNE, 30, 1999.
- ELEVATIONS (ORIGINAL) WERE BASED ON N.G.V.D. 1929 DATUM, MANATEE COUNTY BENCH MARK "EAGLE 2009" (BBCF66), ELEVATION OF 36.73, AS PUBLISHED.
BENCH MARKS:
BM "A" SQUARE CUT SET IN N.E. CORNER OF HATCH WET WELL
EL. = 47.39' NGVD 1929 (EL. = 46.44' NAVD 1988)
BM "B" NORTH RIM SANITARY SEWER MANHOLE
EL. = 45.91' NGVD 1929 (EL. = 44.96' NAVD 1988)
NOTE: NGVD 1929 CONVERTED TO NAVD 1988 BY SUBTRACTING 0.95' AS DICTATED BY NGS DATA SHEETS IN THIS AREA.
- ALL ELEVATIONS IN THIS DRAWING HAVE BEEN CONVERTED FROM NGVD 1929 TO NAVD 1988 BY THE ENGINEER OF RECORD UTILIZING THE CONVERSION EQUATION PROVIDED BY THE SURVEYOR.
- A PROFESSIONAL SURVEYOR LICENSED IN THE STATE OF FLORIDA SHALL BE REQUIRED TO PREPARE RECORD DRAWINGS OF THE PLACEMENT OF THE GENERATOR, ATS, AND UNDERGROUND CONDUIT INSTALLED ON THE LIFT STATION SITE.
- ALL HORIZONTAL AND VERTICAL DISTANCES AND MEASUREMENTS SHALL BE FIELD VERIFIED PRIOR TO ORDERING MATERIALS AND COMMENCING WORK. ALL MEASUREMENTS AND CALCULATIONS SHALL BE THE RESPONSIBILITY OF THE AWARDED CONTRACTOR.
- ANY ELECTRICAL WIRING THAT IS INSTALLED BETWEEN THE LIFT STATION'S WET WELL, VALVE VAULT, AND/OR METER VAULT SHALL BE INSTALLED IN A CARRIER PIPE THAT IS STRAPPED TO THE STRUCTURE.
- NATURAL GAS SERVICE TO BE INSTALLED IN A CARRIER PIPE AND STRAPPED TO THE VALVE VAULT OR WET WELL, IF PASSING OVER FORCE MAIN OR DISCHARGE PIPING.
- CONTRACTOR SHALL INSTALL NATURAL GAS SERVICE FROM PROPOSED GENERATOR TO NATURAL GAS METER/BALL VALVE PROVIDED BY TECO. CONTRACTOR SHALL REMOVE PLUG AT NATURAL GAS METER/BALL VALVE AND CONNECT TO NATURAL GAS SERVICE PROVIDED BY TECO.
- COUNTY WILL APPLY AND PAY FOR GAS SERVICE TO SITE BOUNDARY, BUT THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE COUNTY LIFT STATION SUPERINTENDENT AND TECO FOR INSTALLATION OF GAS LINE AND METER LOCATION ON THE SITE. ROUTE AND DEPTH OF GAS LINE AND METER LOCATION AND GAS LINE SUPPORT ON SITE SHALL BE SUBJECT TO COUNTY, TECO, AND OTHER REGULATIONS.

CONSTRUCTION NOTES:

- CONCRETE STRUCTURE SIZE DEPENDS ON GENERATOR, ENCLOSURE, & FUEL TANK DIMENSIONS. CONTRACTOR TO SIZE GENERATOR & FUEL TANK FOR LIFT STATION REQUIREMENTS.
- CONTRACTOR TO SUBMIT A REINFORCED CONCRETE SLAB DESIGN PER THE EMERGENCY GENERATOR SET SPECIFICATIONS; SECTION 16231, 2.06. THIS COST SHALL BE PART OF THE CONCRETE STRUCTURE & SITE WORK BID ITEM.
- INSERT PREFORMED JOINT FILLER BETWEEN CONCRETE STRUCTURE & EX. CONCRETE.
- CONTRACTOR SHALL USE A APPROPRIATE MEANS TO PROTECT ALL EXISTING UTILITIES THAT ARE LOCATED WITHIN THE PROJECT AREA.
- THE EXTERIOR SURFACES OF THE CONCRETE STRUCTURE AND CONCRETE STAIRS (IF INSTALLED) EXPOSED ABOVE GRADE SHALL BE COATED WITH AT LEAST TWO COATS OF H & C SILICONE ACRYLIC CONCRETE STAIN, PATIO GREEN, MANUFACTURED BY FLR PAINTS, INC. THIS COST SHALL BE PART OF THE CONCRETE SLAB & SITE WORK BID ITEM.



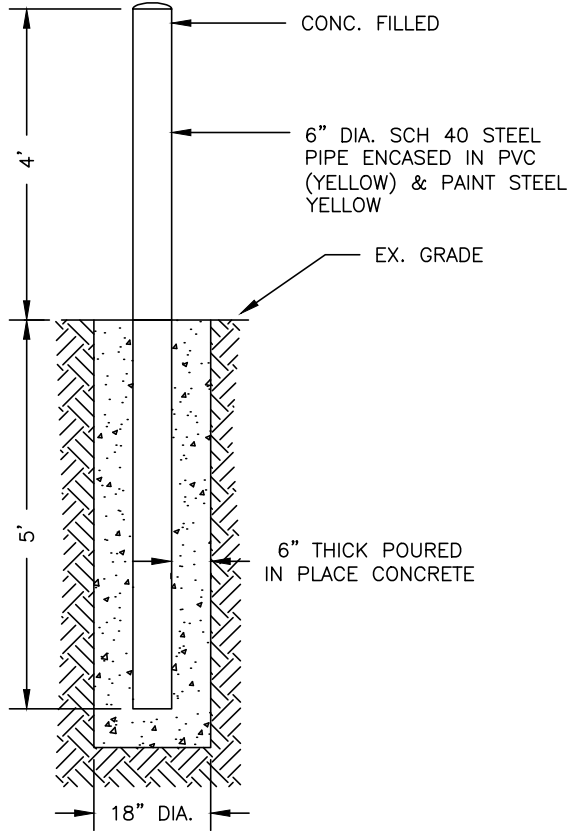
ARNOLD PALMER GREEN 1, RTU 626,
7533 ARNOLD PALMER GREEN



ORIGINAL SHEET SIZE: 11"X17"
SATELLITE LIFT STATION R&R
EMERGENCY GENERATORS 2013 GROUP B
ARNOLD PALMER GREEN 2 RTU 626

NO.	REVISION DESCRIPTION	BY	DATE
1	rev. elev. from datum: 1929 to 1988	JSS	10/17/14
PROJECT #		402-0019707 5001308	
SURVEY #		-	
SEC./TWN./RGE		-	
SCALE		SEE PLANS	
		BY	DATE
DESIGNED			11/20/13
DRAWN			11/20/14
CHECKED			
No. 60923 JUN. P.E.			
FLORIDA P.E. # 60923			
STATE OF 10/21/14 FLORIDA PROFESSIONAL ENGINEER			
SHEET 10 OF 12			

I:\VWD_Engineering_Shore\Util_Eng_Design\PROJ\SSAN_SHR_Proj\San_Swr - LS Upgrades\Egans\2013_Egans\Group B\OWSS\active-SS R&R_Egns 2013_Group B - WWD 88.dwg,11 Details - 10/21/2014 1:29 PM Shea Shoun, 1:1, ANSI full bleed B (17.00 x 11.00 inches)



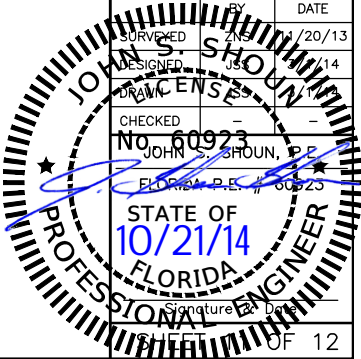
NOTES:
DIMENSIONS ARE TYPICAL. COORDINATE BOLLARD
LOCATIONS AND HEIGHT WITH LIFT STATION
SUPERINTENDENT

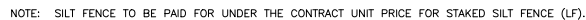
TYPICAL BOLLARD DETAIL
N.T.S.

ORIGINAL SHEET SIZE: 11"X17"

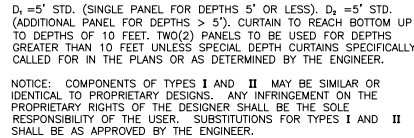
SATELLITE LIFT STATION R&R
EMERGENCY GENERATORS 2013 GROUP B
DETAILS

NO.	REVISION DESCRIPTION	BY	DATE
PROJECT #	402-0019707-5001308		
SURVEY #	-		
SEC./TWN./RGE	-		
SCALE	SEE PLANS		
DESIGNED BY	DATE		
SURVEYED	DATE		
DRAWN	DATE		
CHECKED	DATE		
No. 60923			
JOHN C. SHOUN, P.E.			
FLORIDA P.E. # 60923			
STATE OF			
10/21/14			
FLORIDA			
PROFESSIONAL ENGINEER			
Signature & Date			
OF 12			

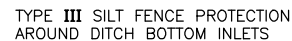
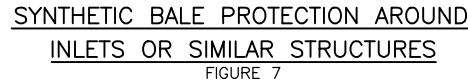




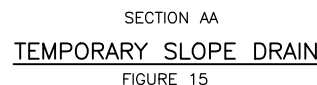
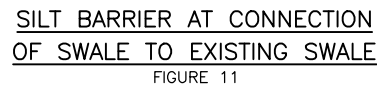
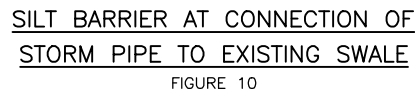
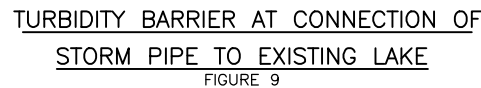
TYPICAL SILT FENCE
FIGURE 2



TURBIDITY BARRIERS
FIGURE 4



STAKED SILT BARRIER OR SILT FENCE
PROTECTION AROUND DITCH BOTTOM INLETS
FIGURE 8



NOTE:
REFERENCE THE FDOT DESIGN STANDARDS
LATEST EDITION FOR ALL TEMPORARY
EROSION CONTROL MEASURES.

ORIGINAL SHEET SIZE: 11"X17"

[illegible]