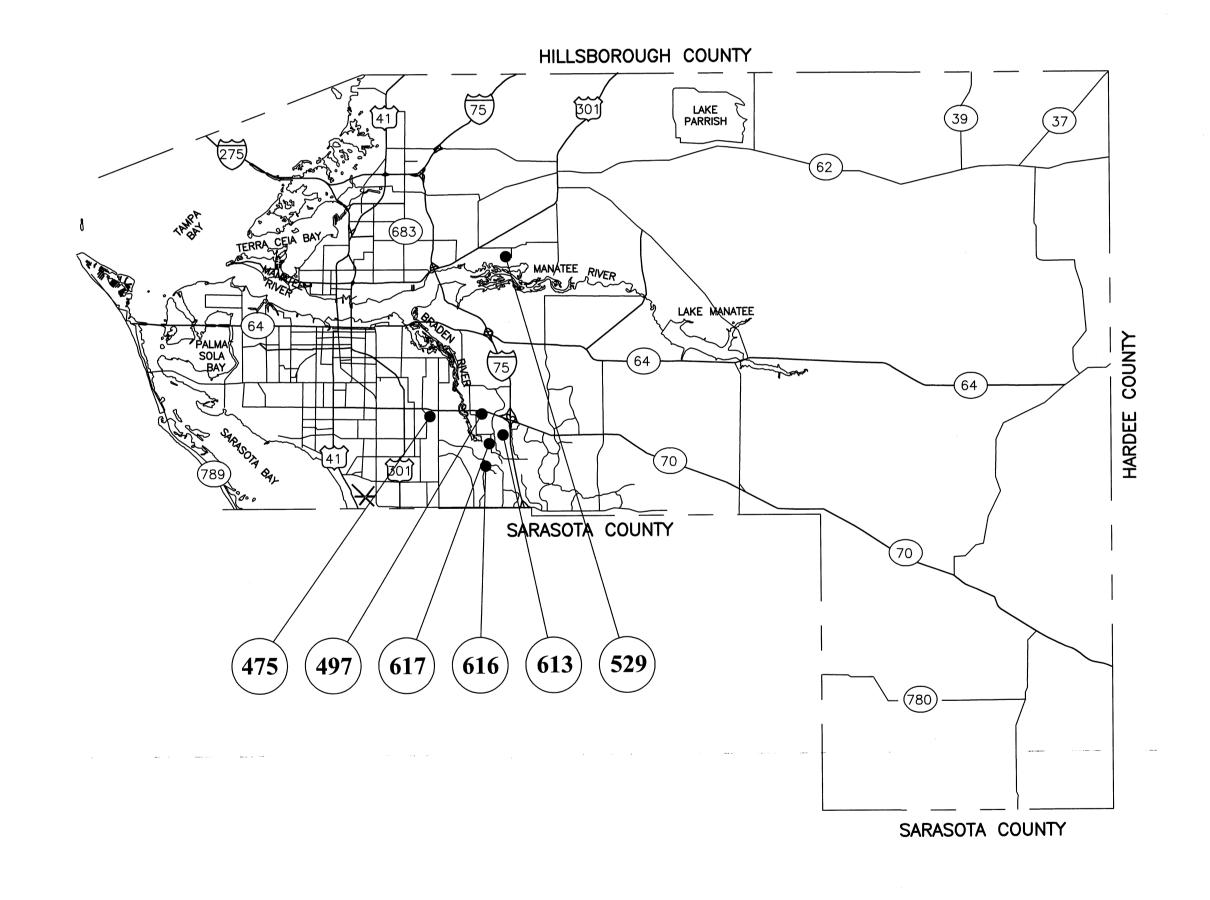


MANATEE COUNTY, FLORIDA LIFT STATION UPGRADES, 2012 EMERGENCY GENERATORS-GROUP B

SEPTEMBER 2011

L.S.NAME/NO.	RTU#	ADDRESS	PROJECT NUMBER	GENERATOR TYPE	SECTION/TOWNSHIP/ RANGE	FIRE DISTRICT
GARDEN LAKES	475	5407 37TH ST. E.	402-0019700	DIESEL	17/35S/18E	CEDAR HAMMOCK
TARA 2	497	6901 STONE RIVER RD.	402-5124182	NATURAL GAS	14/35S/18E	EAST MANATEE
TARA 6	613	7406 TARA PRESERVE LN.	402-5124180	NATURAL GAS	13/35S/18E	EAST MANATEE
RIVER WILDERNESS 1	529	3441 BROOKRIDGE LANE	402-0019707-5001349	DIESEL	06/34S/19E	PARRISH
TARA 7	616	6507 TAILFEATHER WAY	402-0019707-5001344	NATURAL GAS	24/35S/18E	EAST MANATEE
TARA 8	617	6803 TAILFEATHER WAY	402-0019707-5001347	NATURAL GAS	24/35S/18E	EAST MANATEE



NO.	INDEX OF SHEETS
<u>^</u> 1.	COVER SHEET
2.	GENERAL NOTES & LEGEND
3.	LIFT STATION RTU 475
<u> </u>	LIFT STATION RTU 497
<u> </u>	LIFT STATION RTU 613
6.	LIFT STATION RTU 529
7.	LIFT STATION RTU 616
8.	LIFT STATION RTU 617
9.	EROSION CONTROL

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.

PROJECT DESCRIPTION

INSTALL SIX (6) EMERGENCY GENERATOR SETS AT SELECTED LIFT STATION IN ORDER TO MAINTAIN CONTINUOUS OPERATION IN THE EVENT THAT THE PRIMARY POWER SOURCE IS NOT AVAILABLE. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING, AT HIS OWN EXPENSE, WHAT IS NECESSARY TO OBTAIN ALL PERMITS REQUIRED FOR THE WORK. THE CONTRACTOR IS NOT RESPONSIBLE FOR INSTALLING NATURAL GAS SERVICE LINES AND SETTING UP GAS SERVICE METERS. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING A GAS LINE FROM THE INSTALLED NATURAL GAS EMERGENCY GENERATORS AND CONNECT TO THE EXISTING GAS METERS/BALL VALVES INSTALLED BY TECO. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING RECORD DRAWINGS TO THE COUNTY.





LIFT STATION UPGRADES, 2012 ERGENCY GENERATORS-GROUP

ВУ	CB/JS									
REVISION DESCRIPTION	REVISE TARA 2 & 6 TO NATURAL GAS CB/JS									
Š.										
PRC	PROJECT # AS SHOWN						WN			
SURVEY #				AS			SI	SHOWN		
SEC./TWN./I			RGE AS			SHOWN				
SCALE						AS	Sŀ	MOH	/N	
			BY			DATE				
SURVEYED			ZNS			VARIES				
DESIGNED			JS/BR/CB			3/30/20				
DRAWN			BR/CB			3/31/20				
CHECKED				JS						
JAMES STOCKWELL, P.E.										
FLORIDA 11 11 67198										

- . ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE PROJECT MANAGEMENT DIVISION. THE PROJECT MANAGER IS: SHERRI ROBINSON, SENIOR ENGINEERING SPECIALIST. AND CAN BE REACHED AT (941) 708-7450; EXT. 7334
- SITE VISITS ARE MANDATORY FOR ALL BIDDERS. THESE SITE VISITS CAN BE ARRANGED THROUGH THE SENIOR ENGINEERING SPECIALIST.
- ALL CONSTRUCTION ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF MANATEE COUNTY UTILITY STANDARDS & SPECIFICATIONS, TRANSPORTATION STANDARDS AND/OR FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" UNLESS OTHERWISE INDICATED ON THE PLANS.
- . 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).
- . 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
- 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

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

ENVIRONMENTAL

- 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
- 15. ONCE LOCATED. THE BENTONITE SPILL MUST BE ISOLATED AND SEEPAGE INTO ANY NEARBY WATER BODIES WILL BE BLOCKED DEPENDING ON THE DEGREE OF THE SPILL, THE ISOLATED BENTONITE MUST BE REMOVED MANUALLY OR MECHANICALLY AND DISPOSED OF BY APPROPRIATE MEANS OR REUSED.
- 6. 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.
- 17. 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
- 8. 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.
- 19. 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.
- 20. 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.
- 21. 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.
- 22. ALL EROSION AND POLLUTION CONTROL DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER EACH RAINFALL AND SHALL BE CLEANED OUT AND/OR REPAIRED AS REQUIRED.
- 23. 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.
- 24. FOR MORE INFORMATION, SEE THE EROSION CONTROL DETAIL SHEET INCLUDED IN THE PLANS.

RIGHT-OF-WAY

- 25. ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE MANATEE COUNTY/FDOT RIGHT-OF-WAY AND/OR EASEMENTS SHOWN ON THE DRAWINGS.
- 26. 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.
- 27. 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.
- 28. 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.
- 29. 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.
- 30. 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
- 31. 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.

- 32. 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.
- 33. 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.
- 34. 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.
- 35. 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.
- 36. 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

- 37. ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES UNLESS SHOWN OTHERWISE.
- 38. 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.
- 39. 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.
- 40. ASPHALT DRIVES THAT ARE CUT SHALL BE RESTORED PER SECTION 02513.
- 41. 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.
- 42. 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.
- 43. 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

- 44. 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.
- 45. NO MATERIAL SHALL BE STOCKPILED IN ROADWAYS. ALL DIRT AND DEBRIS SHALL BE REMOVED FROM THE JOB SITE DAILY. ROADS SHALL BE SWEPT DAILY AS PART OF DAILY CLEAN UP.
- 46. THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS REQUIRED.
- 47. INGRESS AND EGRESS TO ALL THE PROPERTIES IN THE CONSTRUCTION AREA SHALL BE MAINTAINED AT ALL TIMES.
- 48. PRIOR APPROVAL WILL BE REQUIRED FOR REMOVAL OF ANY TREE WITHIN THE CONSTRUCTION AREA.
- 49. THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP ALL EXCAVATIONS DRY. DEWATERING IS REQUIRED TO 18" BELOW TRENCH BOTTOM.
- 50. 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.
- 51. ALL PIPE SHALL BE COLOR CODED TO CONFORM TO MANATEE COUNTY STANDARDS
- 52. ALL PIPE AND FITTINGS SHALL BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER AND ALL PIPE JOINTS SHALL BE RESTRAINED WHERE REQUIRED.
- 53. 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.
- 54. 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.
- 55. 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. 56. 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. 57. ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES ON COUNTY OWNED AND
- MAINTAINED UTILITY SYSTEMS.
- 58. ALL PENETRATION OF EXISTING STRUCTURES SHALL BE BY THE MECHANICAL ROTARY CORE BORING METHOD.
- 59. ALL CONCRETE PENETRATED OR DISTURBED SHALL BE COATED WITH TWO COATS OF EPOXY.
- 60. 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, WBRD RADIO, EMERGENCY COMMUNITY CENTERS, INSPECTIONS, WATER TREATMENT PLANT, WATER MANAGER, HELPLINE, CUSTOMER SERVICE, AND THE MANATEE COUNTY UTILITY OPERATIONS DEPARTMENT.
- 61. 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.
- 62. 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.

- 63. 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.
- 64. 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.
- 65. FIELD CONDITIONS MAY NECESSITATE MINOR ALIGNMENT AND GRADE DEVIATION OF THE PROPOSED UTILITIES TO AVOID OBSTACLES, AS ORDERED BY THE ENGINEER.
- 66. 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.

PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East

Bradenton, FL 34208

MANATEE COUNTY GOVERNMENT

CONTACTS

MANATEE COUNTY PUBLIC WORKS DEPT. WAYNE TROXLER, P.E. 1022 26TH AVENUE EAST BRADENTON, FL. 34208 (941) 708-7450 EXT. 7650 FAX: (941) 708-7415

TECO/PEOPLES GAS CO. DAN SHANAHAN 8261 VICO COURT SARASOTA, FL. 34240 (941) 342-4030 FAX: (941) 342-4011 EMERGENCY: 1-877-832-6911 Greg_Coker@fpl.com

SUNSHINE STATE ONE CALL OF MANATEE COUNTY HEALTH DEPT. FLORIDA 1-(800) 432-4770

HARRY MESSICK 410 6th AVENUE EAST BRADENTON, FL. 34208 (941) 748-0747 EXT. 1355

FAX: (941) 750-9364

VERIZON FLORIDA INC.

1701 RINGLING BLVD.

SARASOTA, FL. 34236

FAX: (941) 906-6706

John.Plott@verizon.com

FLORIDA POWER & LIGHT

1253 12TH AVENUE EAST

PALMETTO, FL 34221

FAX: (941) 723-4444

(941) 723-4430

(941) 906-6707

JOHN PLOTT

GREG COKER

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT SARASOTA SERVICE OFFICE DARYL R. FLATT. P.E. 6750 FRUITVILLE ROAD SARASOTA, FL. 34240 (941) 377-3722

FLORIDA GAS TRANSMISSION SAFETY HARBOR TEAM 7804 ANDERSON RD. TAMPA, FL. 33634 EMERGENCY: 1-800-4-OUTAGE CHRIS LEE (813) 466-3327 CELL: (727) 639-7512

LEGEND

BUSH

TREE

EDGE OF VEGETATION

BARBED WIRE FENCE

----- CHAIN LINK FENCE

----- WOOD FENCE

----- FM ------ FORCE MAIN

PW POTABLE WATER

RCW—RCW—RECLAIMED WATER

----- ss ------ SANITARY SEWER

----- UGTV ------ UNDERGROUND TV

----- OH VER ----- OVERHEAD VERIZON

----- BE ----- UNDERGROUND ELECTRIC

---- UG VER ----- UNDERGROUND VERIZON

OVERHEAD UTILITY

-----EDGE OF ROAD

TOP OF BANK

PROPERTY LINE

----s----STORM DRAIN

GAS GAS LINE

----- VERIZON

SANITARY SEWER MANHOLE ———— RAIL ROAD TRACKS

SANITARY SEWER CLEAN OUT — EDGE OF CONCRETE

TEL TED TELEPHONE SERVICE BOX — TOE OF SLOPE

OAK TREE

PALM TREE

PINE TREE

EXISTING

BENCH MARK

IRON ROD

HUB

HUB

N&D ●

(1234)

(77)

SPRK o

IRON PIPE

NAIL & DISK

ELEVATION

LOT NO.

GUY WIRE

LIGHT POLE

MAIL BOX

REFLECTOR

SPRINKLER

BFP -O- BACKFLOW PREVENTER

FIRE HYDRANT

▶ BLOW OFF VALVE

AIR RELEASE VALVE

WATER METER

SB#1 SOIL BORING LOCATION

FLOW DIRECTION

MITERED END SECTION

SIGN

GM © GAS MARKER

WV ⋈ WATER VALVE

GI **GRATE INLET**

POWER POLE

PARCEL ID NO.

PARCEL ID NO

CONCRETE MONUMENT

FAX: (941) 373-7660

DEPARTMENT OF ENVIRONMENTAL PROTECTION STEPHANIE BARIOS 13051 N. TELECOM PKWY TEMPLE TERRACE, FL 33637 PHONE: (813) 632-7600, EXT. FAX: (813) 632-7662

BRIGHT HOUSE NETWORKS TOM WRIGHT 5413 E. STATE ROAD 64 BRADENTON, FL. 34208-5535 (941) 748-3816 EXT. 21348 Tom.Wright@mybrighthouse.com

PEACE RIVER ELECTRIC COOPERATIVE, INC. P.O. BOX 1310 WACHULA, FL 33873 KENDELL COKER (863) 767-4660 kendell.coker@preco.coop

ABBREVIATIONS

RIGHT OF WAY

CONCRETE

ASPHALT

DRIVEWAY

SIDEWALK

BOC

EDGE OF PAVEMENT

BACK OF CURB

PROPOSED

--- PROPOSED EASEMEN

BLOW OFF ASSEMBLY

HORIZONTAL BEND

MASTER METER ASSEMBLY

SERVICE LINE & METER

DOUBLE SERVICE

VERTICAL BEND

SANITARY SEWER MANHOLE

FIRE HYDRANT

REDUCER

TEE

PROPOSED PROJECT NOTES

JOB SPECIFIC (EXAMPLE):

WATER LINE CALL-OUT

STA. 40+60, 17' LT.

1-6" GATE VALVE

1-6" FITTING

(TYPICAL)

SERVICE LINE

N

 Ξ

 Ξ

 Ξ

PROJECT # SEE COVER SURVEY # N/A SEC./TWN./RGE | AS SHOWN SCALE

CHECKED JS

SURVEYED

DESIGNED

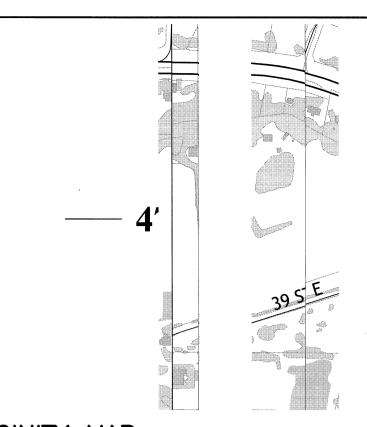
DRAWN

DATE

JS/BR/CB|3/30/20

BR/CB 3/31/20

JAMES STOCKWELL, P.E. FLORIDA P.E. # 67198



VICINITY MAP

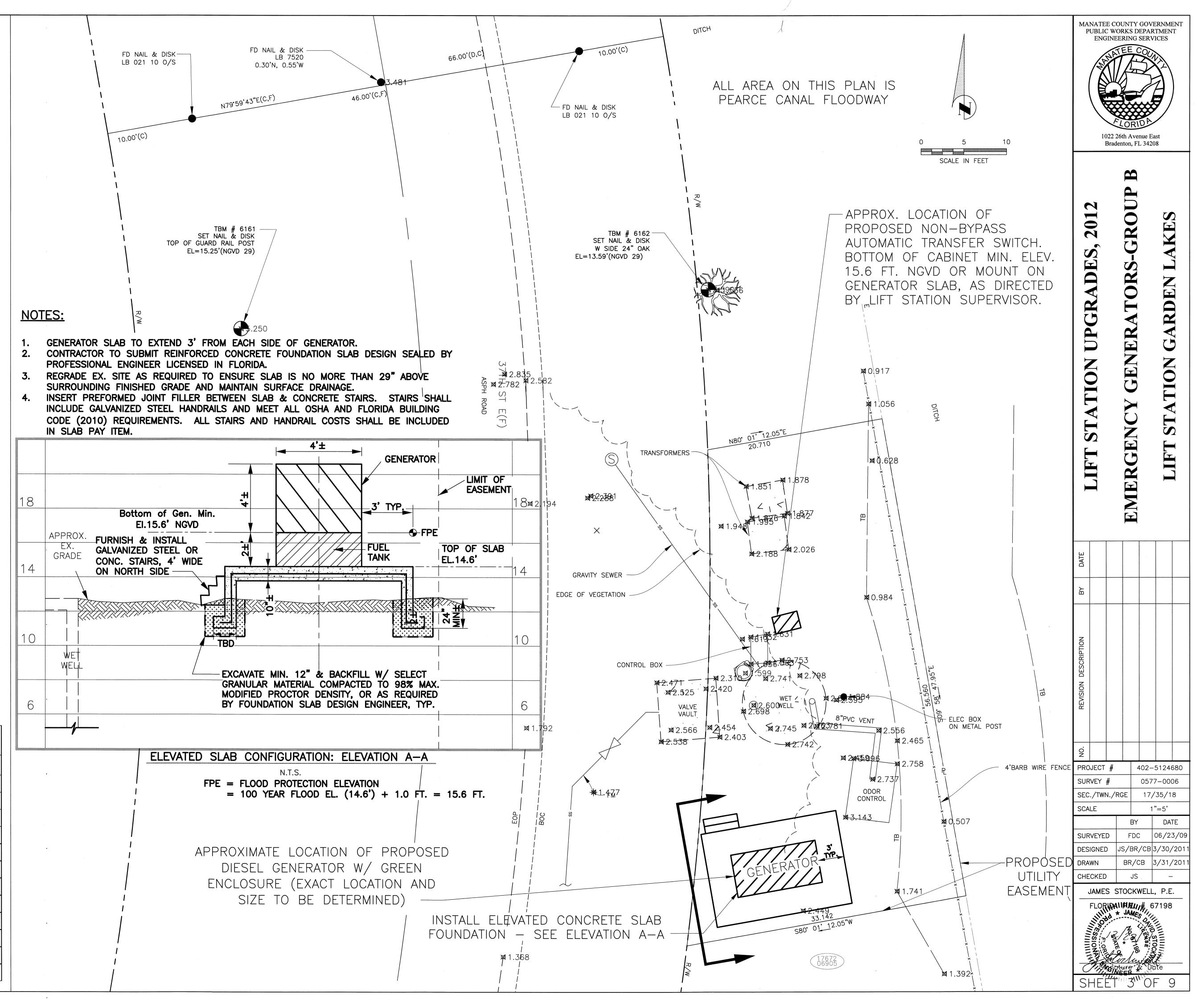
<u>NOTES</u>

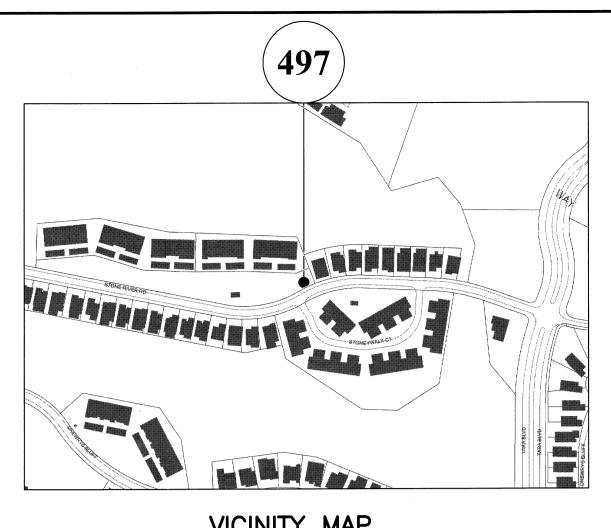
1. THIS IS NOT A BOUNDARY SURVEY.

- 2. A SEPARATE SURVEYOR'S REPORT TITLED "SPECIFIC PURPOSE SURVEY MANATEE COUNTY, FLORIDA LIFT STATION UPGRADES 2010 EMERGENCY GENERATORS IFAS # W0900218 FDC JOB NUMBER 0577—0006 LAST DATE OF FIELD WORK: 6—24—2009" HAS BEEN UTILIZED AS A TEXT OPTION FOR THIS SURVEY MAP.
- 3. USERS OF THIS SURVEY MAP ARE DIRECTED TO ACKNOWLEDGE THE CONTENT OF THE SURVEYOR'S REPORT.
- 4. THE SURVEY MAP AND REPORT ARE NOT FULL AND COMPLETE WITHOUT THE OTHER.
- 5. THE BASIS OF BEARINGS FOR THE SITE RTU-475 PORTION OF THIS SURVEY IS THE SURVEY BASELINE RTU-475, BEING N13*56'46"E, AS SHOWN WITHIN THE ELECTRONIC DRAWING FILE.
- 6. HORIZONTAL COORDINATES FOR THE SITE RTU-475 PORTION OF THIS SURVEY (IN US SURVEY FEET) ARE BASED UPON THAT CERTAIN STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION.
- 7. RIGHT-OF-WAY MAP FOR STATE ROAD 70 (SEE DATA SOURCES 8) WHICH STATES "BEARING BASIS IS THE FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE".
- 8. ELEVATIONS FOR THE SITE RTU-475 PORTION OF THIS SURVEY ARE BASED UPON MANATEE COUNTY BENCH RUN 140, NATIONAL GEODETIC VERTICAL DATUM, 1929 ADJUSTMENT (NGVD 29).
- 9. CONTROL BENCHMARKS UTILIZED ARE DESIGNATED: (a) "140-29-01" BY MANATEE COUNTY, A FOUND TRIANGLE CUT IN CONCRETE HEADWALL, ELEVATION = 16.680 FEET; AND (b) "140-29-02" BY MANATEE COUNTY, A FOUND TRIANGLE CUT IN CONCRETE SIDEWALK, ELEVATION = 16.652 FEET; AS PUBLISHED BY THE MANATEE COUNTY WEB SITE AT http://public.mymanatee.org.
- 10. SITE RTU-475 LIES WITHIN FLOOD ZONE AE, BASE FLOOD ELEVATION=14.6', PER FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NUMBER 1201530334 C, MAP REVISED JULY 15,1992.
- 11. ANY ELECTRICAL WIRING THAT IS INSTALLED BETWEEN THE LIFT STATION'S WET WELL AND VALVE VAULT SHALL BE INSTALLED IN A CARRIER PIPE THAT IS STRAPPED TO THE WET WELL OR VALVE
- 12. 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.
- 13. INSTALL A 10# ABC FIRE EXTINGUISHER IN A WATERPROOF ENCLOSURE MOUNTED TO THE MAIN CONTROL CABINET SUPPORT POSTS AND INSTALL; A KNOX LOCK ON THE ENCLOSURE FENCE GATE LOCKING CHAIN, IF APPLICABLE.
- 14. THE PROPERTY LIES WITHIN FLOOD ZONE AE AS SHOWN ON FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NUMBER 1201530334 C. MAP REVISED JULY 15, 1992.

 BASE FLOOD ELEV (BFE) = 14.6 FT.
 FLOOD PROTECTION ELEV (FPE) = 15.6 FT. NGVD

GARDEN LAKES				
ITEM	VALUE			
RTU	475			
STREET ADDRESS	5407 37th St. E.			
CITY	BRADENTON			
SEC./TWN./RGE	17/35/18			
FIRE DISTRICT	SOUTHERN MANATEE			
NUMBER OF PUMPS	2			
HORSE POWER/PUMP	20			
PHASE	3			
VOLTS	230			
MODEL OF MAIN BREAKER	SD QBL32200			
TOP WET WELL EL. (NGVD 29)	12.74'			
FLOOD ZONE	AE			
· · · · · · · · · · · · · · · · · · ·				

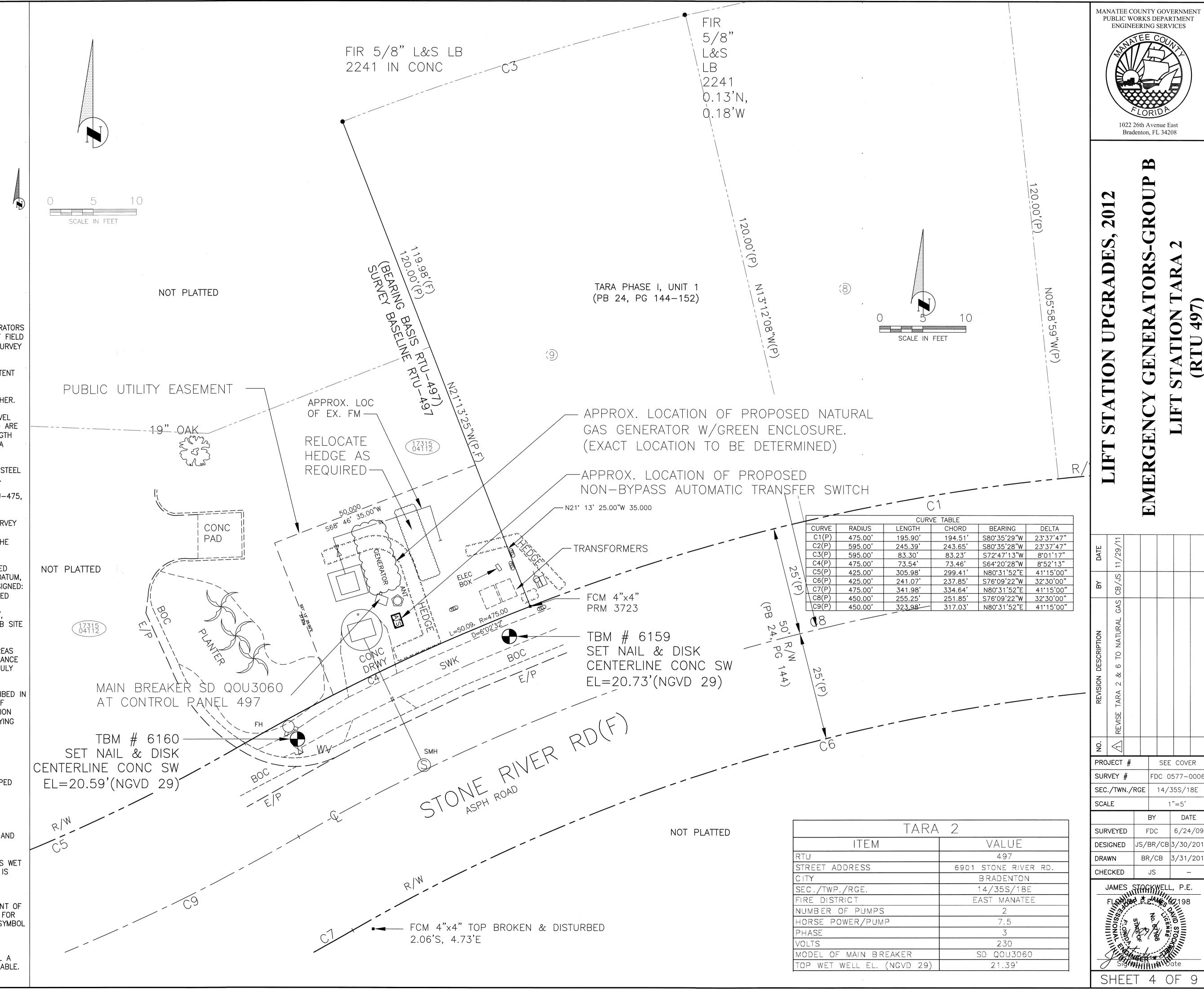


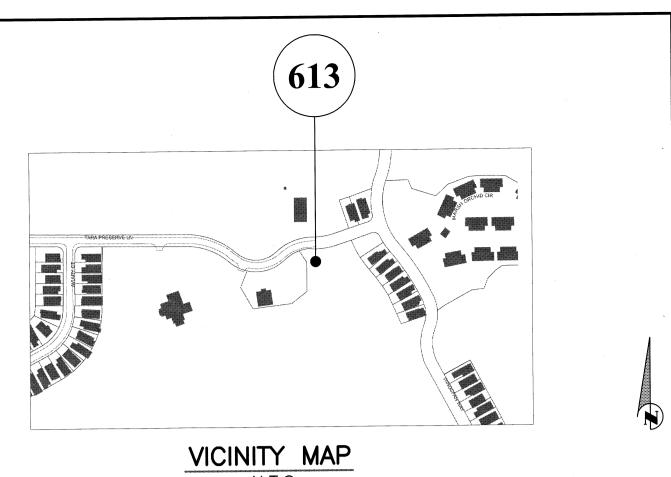


VICINITY MAP

NOTES:

- THIS IS NOT A BOUNDARY SURVEY.
- A SEPARATE SURVEYOR'S REPORT TITLED "SPECIFIC SURVEY MANATEE COUNTY, FLORIDA - LIFT STATION UPGRADES - 2010 EMERGENCY GENERATORS - IFAS # W0900218 - FDC JOB NUMBER 0577-0006 - LAST DATE OF FIELD WORK: 6-24-2009" HAS BEEN UTILIZED AS A TEXT OPTION FOR THIS SURVEY
- USERS OF THIS SURVEY MAP ARE DIRECTED TO ACKNOWLEDGE THE CONTENT OF THE SURVEYOR'S REPORT.
- THE MAPS AND REPORT ARE NOT FULL AND COMPLETE WITHOUT THE OTHER
- CONTROL ELEVATIONS FOR THIS SURVEY ARE BASED UPON SEPERATE LEVEL AS FOLLOWS: SITE RTU-497=0.031' ERROR IN A 1.674-MILE LOOP LENGTH WHICH EXCEEDS THE MINIMUM ACCURACY REQUIREMENT CALCULATED AT A MAXIMUM MIS-CLOSURE OF 0.065 FEET.
- HORIZONTAL CONTROL MEASUREMENTS WERE MADE WITH A TRANSIT AND STEEL TAPE, OR DEVICES WITH EQUIVALENT OR HIGHER DEGREES OF ACCURACY.
- THE BASIS OF BEARING FOR THIS SURVEY IS THE SURVEY BASELINE RTU-475, BEING N13°56'46"E. AS SHOWN WITH THE ELECTRONIC DRAWING FILE.
- HORIZONTAL COORDINATES FOR THE SITE RTU-497 PORTION OF THIS SURVEY (IN US SURVEY FEET) ARE BASED UPON THE PLAT OF TARA PHASE II SUBPHASE B (SEE DATA SOURCES 4) WHICH STATES DOES NOT STATE THE DATUM FOR THE COORDINATES SHOWN ON SAID PLAT.
-). ELEVATIONS FOR THE SITE RTU-497 PORTION OF THIS SURVEY ARE BASED UPON MANATEE COUNTY BENCH RUN 87, NATIONAL GEODETIC VERTICAL DATUM, 1929 ADJUSTMENT (NGVD 29), CONTROL BENCHMARKS UTILIZED ARE DESIGNED: A) "87-29-01" BY MANATEE COUNTY, A FOUND RIVET WITH DISK STAMPED "MAN. CNT. B.M.", ELEVATION = 17.062 FEET; AND B) "87-29-02" BY MANATEE COUNTY, A FOUND RIVET WITH DISK STAMPED "MAN.CNT. B.NM.". ELEVATION = 16.263 FEET; AS PUBLISHED BY THE MANATEE COUNTY WEB SITE AT http://public.mymanatee.org.
- 10. SITE RTU-497 LIES WITHIN FLOOD ZONE X, BASE FLOOD ELEVATION= AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOOD PLAIN, PER FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NUMBER 120153 0353 C, MAP REVISED JULY 15, 1992.
- . SUBJECT SITE RTU-497 LIES WITHIN THAT CERTAIN PROPERTY AS DESCRIBED IN OFFICIAL RECORDS BOOK 1335, PAGE 3780 OF THE PUBLIC RECORDS OF MANATEE COUNTY, FLORIDA, (NO UTILITY EASEMENT RECORDING INFORMATION AVAILABLE), BEING WITHIN PARCEL 1731504112 (SEE LIMITATIONS 14), LYING
- WITHIN SECTION 14. TOWNSHIP 35 SOUTH, RANGE 18 EAST, MANATEE COUNTY, FLORIDA.
- 12. MONUMENTATION AT PROPERTY CORNERS DEPICTED WERE NOT RECOVERED OR SET UNLESS NOTED.
- 13. 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.
- 4. 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.
- 15. ANY ELECTRICAL WIRING THAT IS INSTALLED BETWEEN THE LIFT STATION'S WET WELL AND VALVE VAULT SHALL BE INSTALLED IN A CARRIER PIPE THAT IS STRAPPED TO THE WET WELL OR VALVE VAULT.
- 16. 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.
- 17. INSTALL A 10# ABC FIRE EXTINGUISHER IN A WATERPROOF ENCLOSURE MOUNTED TO THE MAIN CONTROL CABINET SUPPORT POSTS AND INSTALL A KNOX LOCK ON THE ENCLOSURE FENCE GATE LOCKING CHAIN, IF APPLICABLE.





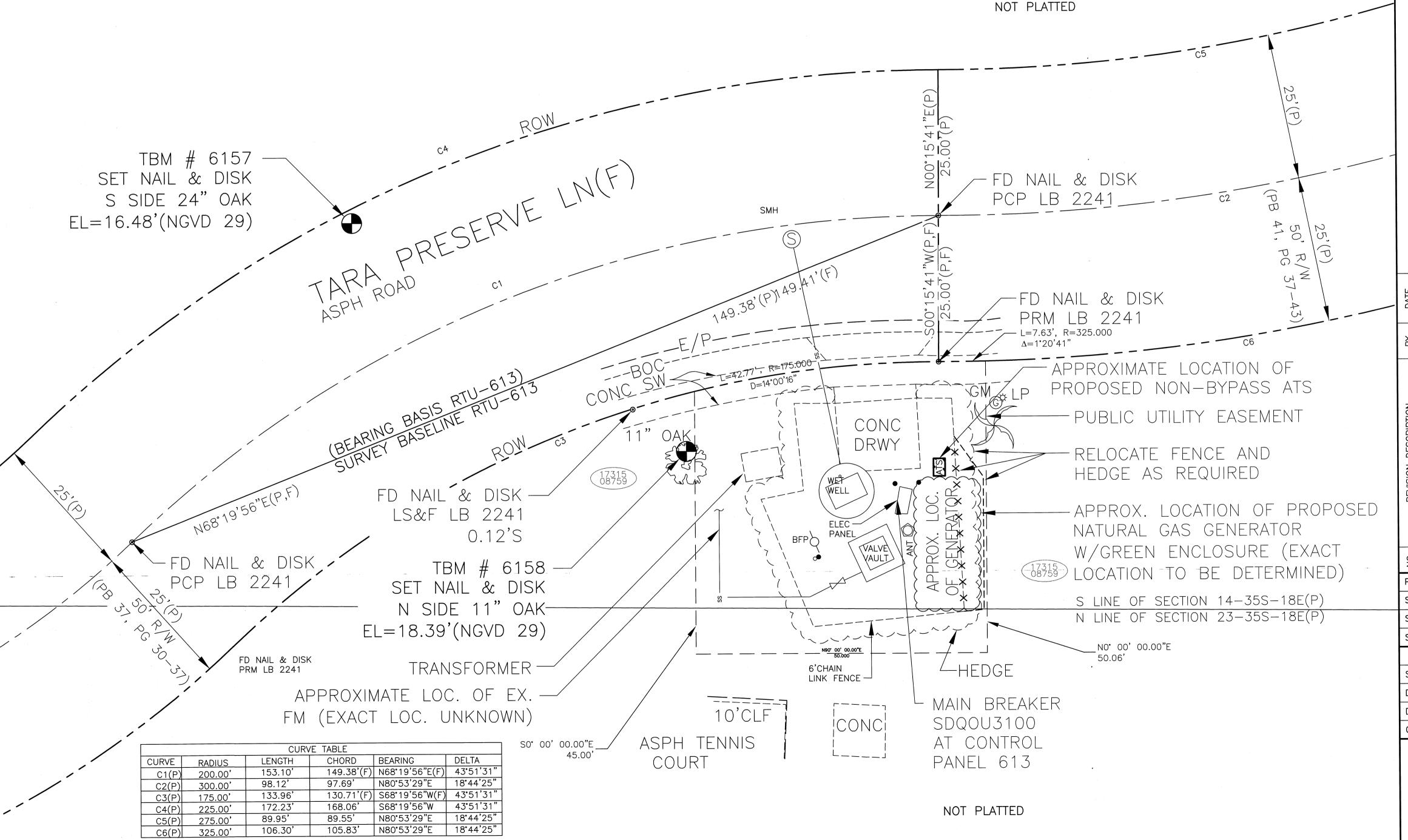
N.T.S.

- THIS IS NOT A BOUNDARY SURVEY.
- A SEPARATE SURVEYOR'S REPORT TITLED "SPECIFIC SURVEY MANATEE COUNTY, FLORIDA - LIFT STATION UPGRADES - 2010 EMERGENCY GENERATORS - IFAS # W0900218 - FDC JOB NUMBER 0577-0006 -LAST DATE OF FIELD WORK: 6-24-2009" HAS BEEN UTILIZED AS A TEXT OPTION FOR THIS SURVEY MAP.

SCALE IN FEET

- USERS OF THIS SURVEY MAP ARE DIRECTED TO ACKNOWLEDGE THE CONTENT OF THE SURVEYOR'S REPORT.
- THE MAPS AND REPORT ARE NOT FULL AND COMPLETE WITHOUT THE
- CONTROL ELEVATIONS FOR THIS SURVEY ARE BASED UPON SEPARATE LEVEL LOOPS USING DIFFERENTIAL LEVELING TECHNIQUES. CLOSURES ACHIEVED ARE AS FOLLOWS: SITE RTU-613=0.032' ERROR IN A 0.543-MILE LOOP LENGTH WHICH EXCEEDS THE MINIMUM ACCURACY REQUIREMENT CALCULATED AT A MAXIMUM MIS-CLOSURE OF 0.037
- HORIZONTAL CONTROL MEASUREMENTS WERE MADE WITH A TRANSIT AND STEEL TAPE, OR DEVICES WITH EQUIVALENT OR HIGHER DEGREES OF ACCURACY.
- THE BASIS OF BEARING FOR THIS SURVEY IS THE SURVEY BASELINE RTU-613, BEING N68'19'56"E, AS SHOWN WITHIN THE ELECTRONIC DRAWING FILE.
- HORIZONTAL COORDINATES FOR THE SITE RTU-613 PORTION OF THIS SURVEY (IN US SURVEY FEET) ARE BASED UPON THE PLAT OF TARA PHASE III SUBPHASE B (SEE DATA SOURCES 4) WHICH STATES "THE STATE PLANE COORDINATE SYSTEM SHOWN HEREON IS BASED UPON THE MANATEE COUNTY GEOGRAPHIC INFORMATION SYSTEM (FLORIDA WEST ZONE, NORTH AMERICAN DATUM 1983/1990 ADJUSTMENT.
- ELEVATIONS FOR THE SITE RTU-613 PORTION OF THIS SURVEY ARE BASED UPON THE PLAT OF TARA PHASE III, SUBPHASE B (SEE DATA SOURCES 4) WHICH STATES "THE BENCH MARK DATUM AS SHOWN HEREON, IS BASED UPON THE NATIONAL GEODETIC VERTICAL DATUM (N.G.V.D.) OF 1929, ORIGIN BENCH MARK = # rm162. PUBLISHED ELEVATION=9.26", CONTROL BENCHMARKS UTILIZED ARE: (a) A FOUND "X" CUT IN FLANGE BOLT OF FIRE HYDRANT LOCATED ON THE EAST SIDE OF AVIARY COURT BETWEEN LOTS 9 AND 10 (PLAT BOOK 37, PAGE 31), ELEVATION=17.32 FEET; AND (b) A FOUND "X" CUT IN FLANGE BOLT OF FIRE HYDRANT LOCATED ON THE NORTH SIDE OF TARA PRESERVE LANE ACROSS FROM LOT 28 (PLAT BOOK 37, PAGE 31). ELEVATION = 16.80 FEET.
- 0. SITE RTU-613 LIES WITHIN FLOOD ZONE X, BASE FLOOD ELEVATION= AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOOD PLAIN, PER FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NUMBER 120153 0353 C. MAP REVISED JULY 15, 1992.
- . SUBJECT SITE RTU-613 LIES WITHIN THAT CERTAIN PROPERTY AS DESCRIBED IN OFFICIAL RECORDS BOOK 2281, PAGE 6236 OF THE OF THE PUBLIC RECORDS OF MANATEE COUNTY, FLORIDA, (NO UTILITY EASEMENT RECORDING INFORMATION AVAILABLE), BEING WITHIN PARCEL 1731508759 (SEE LIMITATIONS 14), LYING WITHIN SECTION 14 AND 23, TOWNSHIP 35 SOUTH, RANGE 18 EAST, MANATEE COUNTY, FLORIDA.
- 12. 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.
- 3. 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.
- 14. ANY ELECTRICAL WIRING THAT IS INSTALLED BETWEEN THE LIFT STATION'S WET WELL AND VALVE VAULT SHALL BE INSTALLED IN A CARRIER PIPE THAT IS STRAPPED TO THE WET WELL OR VALVE VAULT.
- 5. 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.
- 6. INSTALL A 10# ABC FIRE EXTINGUISHER IN A WATERPROOF ENCLOSURE MOUNTED TO THE MAIN CONTROL CABINET SUPPORT POSTS AND INSTALL A KNOX LOCK ON THE ENCLOSURE FENCE GATE LOCKING CHAIN, IF APPLICABLE.





MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES Bradenton, FL 34208

~ 20

PROJECT # SEE COVER SURVEY # FDC 0577-000 14/35S/18E SEC./TWN./RGE SCALE 1"=5 DATE BY 6/24/09 SURVEYED FDC JS/BR/CB|3/30/20 DESIGNED BR/CB 3/31/20 CHECKED

JAMES STOCKWELL, P.E. FLORIDA PAEJA#167198

VICINITY MAP

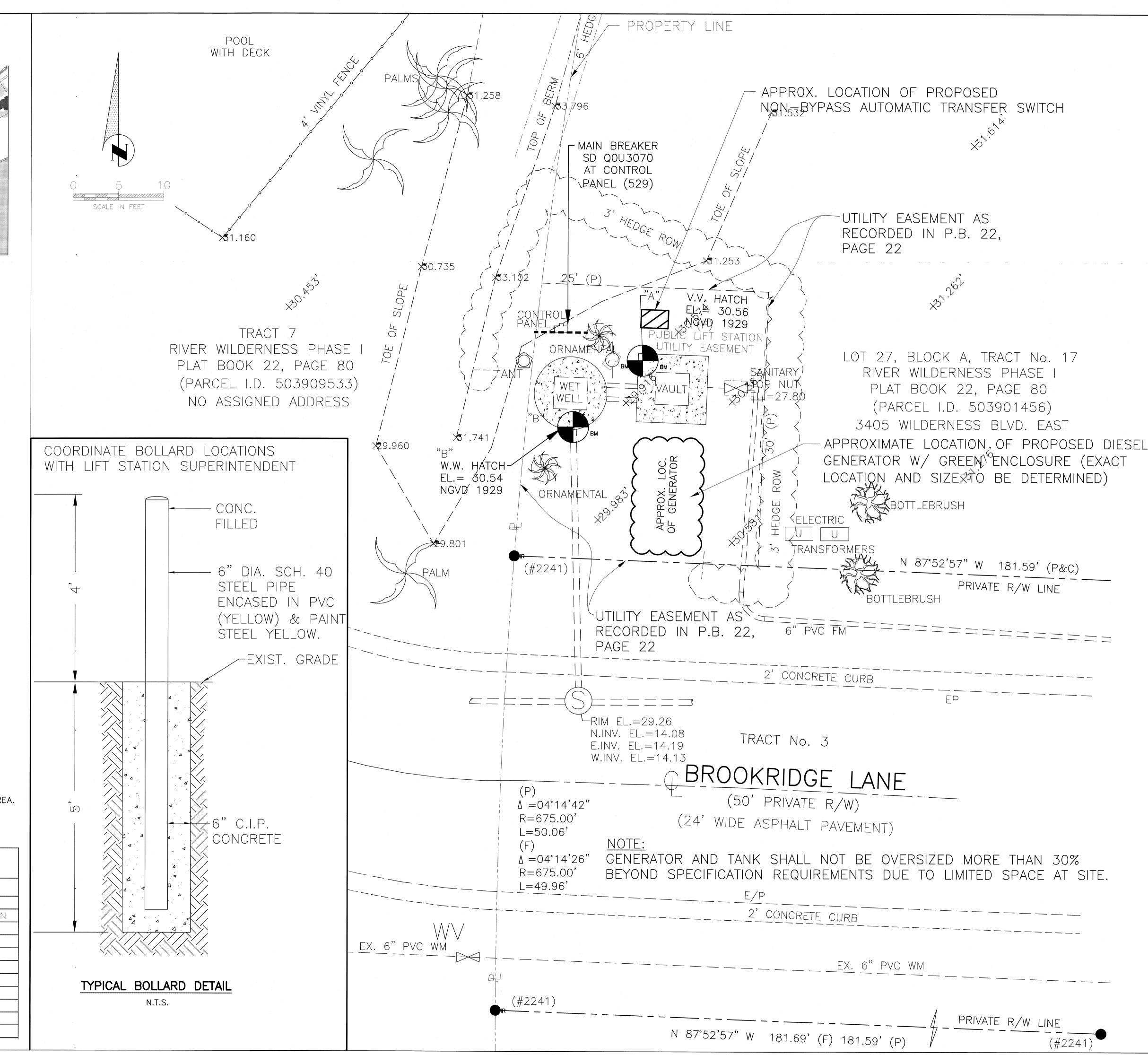
NOTES

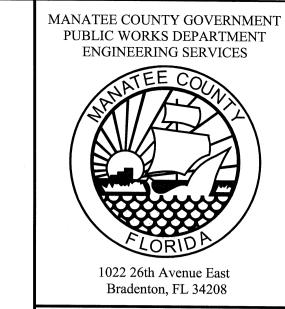
- 1. BEARINGS ARE BASED ON THE SOUTH PRIVATE RIGHT OF WAY LINE OF BROOKRIDGE LANE, HAVING A BEARING OF N 87°52'57" W, AND ARE RELATED TO FLORIDA STATE PLANE COORDINATE SYSTEM (WEST ZONE) NAD 83/90 DERIVED FROM CONTROL MONUMENT MANATEE G. STROOP CORS (DL7628).
- 2. THE PROPERTY LIES WITHIN FLOOD ZONE "X" AS SHOWN ON MANATEE COUNTY INSURANCE RATE MAP PANEL No. 120153 0215 C, REVISED JULY 15, 1992. NO FLOOD PROTECTION REQUIRED.
- 3. ELEVATIONS ARE BASED ON N.G.V.D. 1929 DATUM, MANATEE COUNTY BENCH MARK No. NEBRASKA, ELEVATION OF 30.41 (NAVD ELEVATION 29.42, AS PUBLISHED).
- 4. TITLE INFORMATION IS DERIVED FROM OWNERSHIP AND ENCUMBRANCE SEARCH BY ThT SEARCHING, INC., (FILE S11-016) DATED 2/10/2011.
- 5. ANY ELECTRICAL WIRING THAT IS INSTALLED BETWEEN THE LIFT STATION'S WET WELL AND VALVE VAULT SHALL BE INSTALLED IN A CARRIER PIPE THAT IS STRAPPED TO THE WET WELL OR VALVE VAULT.
- 6. 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.
- 7. INSTALL A 10# ABC FIRE EXTINGUISHER IN A WATERPROOF ENCLOSURE MOUNTED TO THE MAIN CONTROL CABINET SUPPORT POSTS AND INSTALL A KNOX LOCK ON THE ENCLUSURE FENCE GATE LOCKING CHAIN, IF APPLICABLE.

BENCH MARKS:

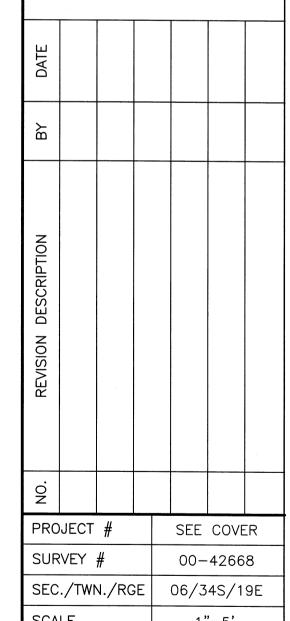
- BM "A" SQUARE CUT SET IN N.W. CORNER OF VAULT EL. = 30.56' NGVD 1929 (EL. = 29.57' NAVD 1988)
- BM "B" SQUARE CUT SET IN SOUTH EDGE OF WET WELL EL. = 30.54' NGVD 1929 (EL. = 29.55' NAVD 1988)
- NOTE: NGVD 1929 CONVERTED TO NAVD 1988 BY SUB-TRACTING 0.99' AS DICTATED BY NGS DATA SHEETS IN THIS AREA.

RIVER WILDERNESS 1					
ITEM	VALUE				
RTU	529				
STREET ADDRESS	3441 BROOKRIDGE LN				
CITY	PARRISH				
SEC./TWP./RGE.	06/34S/19E				
FIRE DISTRICT	PARRISH				
NUMBER OF PUMPS	2				
HORSE POWER/PUMP	5				
PHASE	3				
VOLTS	230				
MODEL OF MAIN BREAKER	SD Q0U3070.				
TOP WET WELL EL. (NGVD 29)	30.32				



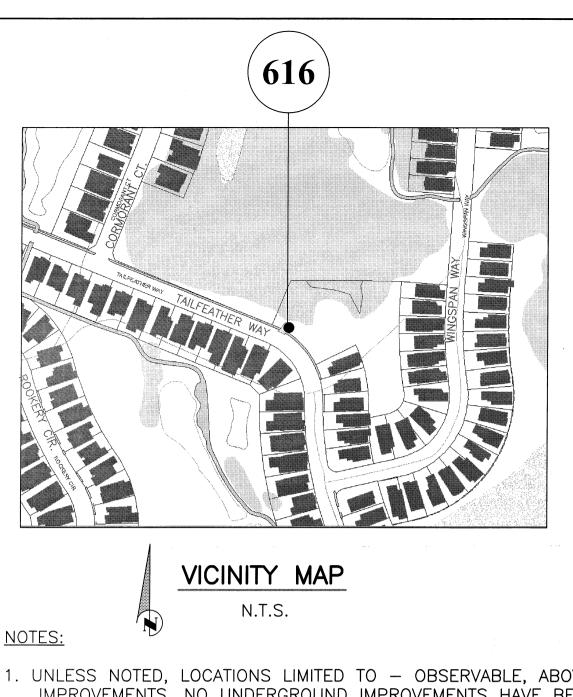


EMERGENCY GENERATORS-GROUP



RVEY #		00-42668		
C./TWN./	RGE	06/34S/19E		
ALE		1"=5'		
	BY		DATE	
RVEYED	ZNS		2/15/11	
SIGNED	JS/E	3R/CB	3/30/2011	
AWN	BR	R/CB	3/31/2011	

FLORIDA AMES 14 67198



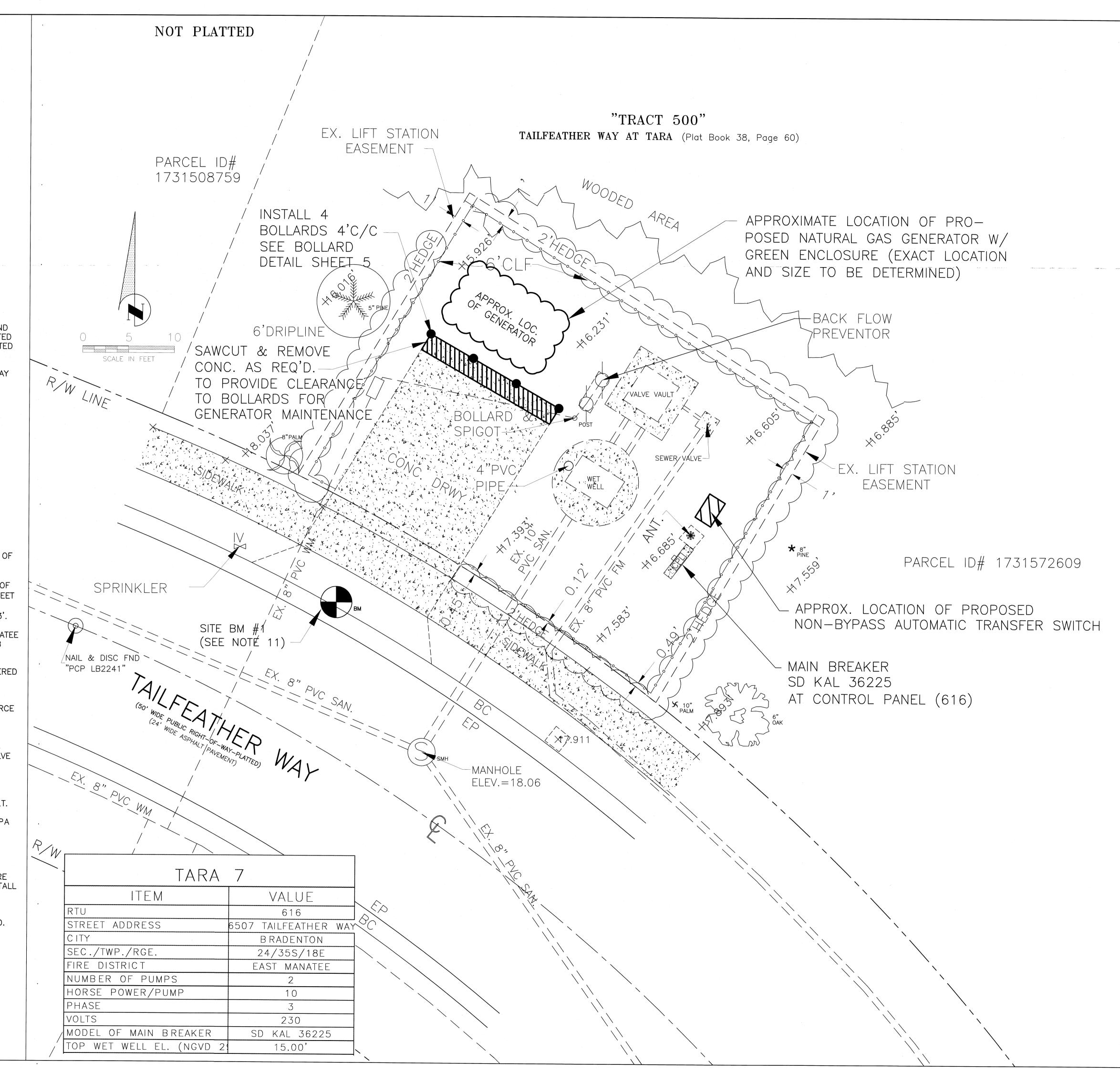
I. UNLESS NOTED, LOCATIONS LIMITED TO — OBSERVABLE, ABOVE GROUND IMPROVEMENTS, NO UNDERGROUND IMPROVEMENTS HAVE BEEN LOCATED EXCEPT THOSE SHOWN HEREON. SOME FEATURES MAY BE EXAGGERATED FOR CLARITY. DIMENSIONS SHOWN SUPERSEDE SCALED DIMENSIONS.

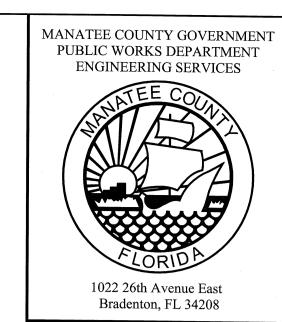
- 2. NO INSTRUMENTS OF RECORD REFLECTING EASEMENTS, RIGHTS-OF-WAY AND/OR OWNERSHIP ARE KNOWN BY, OR WERE FURNISHED THIS SURVEYOR EXCEPT AS SHOWN HEREON.
- ALL MEASUREMENTS SHOWN HEREON ARE GROUND FIELD MEASURED UNLESS SPECIFICALLY ANNOTATED, NOTED OR OTHERWISE STATED ON THIS SKETCH OF SURVEY.
- 4. THE BASIS OF BEARING FOR THIS SURVEY IS THE SURVEY BASELINE WHICH BEARS N68°02'04"W (PLAT), THE CENTERLINE OF TAILFEATHER WAY
- 5. THE ELEVATIONS SHOWN HEREON ARE BASED ON MANATEE COUNTY BENCHMARK 87-29-06, PUBLISHED ELEVATION 12.889', NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD29), AND CHECKED AGAINST BENCHMARK 87-29-07, PUBLISHED ELEVATION 11.089', (NGVD29).

SITE BENCHMARK #1 — LABELED "BM 2", RIVET & DISC STAMPED "MAN.CTY TRAV.PT." SET IN THE 2.0 FEET WEST OF THE CENTERLINE CONCRETE DRIVEWAY AT LIFT STATION RTU 616 AND 15'+/— NORTH OF THE CENTERLINE OF TAILFEATHER WAY, ELEVATION=18.09'.

SITE BENCHMARK #2 - NOT SHOWN ON THIS SURVEY "BM 1", TOP OF A PK NAIL AND DISC FOUND STAMPED "PCP LB2241" LOCATED 13 FEET \pm WEST OF THE CENTERLINE CONCRETE DRIVEWAY HOUSE #6430 LOCATED ON THE CENTERLINE OF TAILFEATHER WAY, ELEVATION=17.13'.

- 6. PARCEL INFORMATION SHOWN HEREON WAS GATHERED FROM THE MANATEE COUNTY GEOGRAPHIC INFORMATION SYSTEMS PROPERTY LOCATOR WEB
- 7. MONUMENTATION AT PROPERTY CORNERS DEPICTED WERE NOT RECOVERED OR SET UNLESS NOTED.
- 8. 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.
- 9. 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.
- 10. ANY ELECTRICAL WIRING THAT IS INSTALLED BETWEEN THE LIFT STATION'S WET WELL AND VALVE VAULT SHALL BE INSTALLED IN A CARRIER PIPE THAT IS STRAPPED TO THE WET WELL OR VALVE VAULT.
- 11. 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.
- 12. INSTALL A 10# ABC FIRE EXTINGUISHER IN A WATERPROOF ENCLOSURE MOUNTED TO THE MAIN CONTROL CABINET SUPPORT POSTS AND INSTALL A KNOX LOCK ON THE ENCLOSURE FENCE GATE LOCKING CHAIN, IF APPLICABLE.
- 13. THIS SITE IS IN FLOOD ZONE X. NO FLOOD PROTECTION IS REQUIRED.





LIFT STATION UPGRADES, 2012
IERGENCY GENERATORS-GROUP I

PROJECT #

SURVEY #

DESIGNED

CHECKED

SEE COVER

6022184

1"=5"

MCG 2/17/11

JS/BR/CB3/30/201

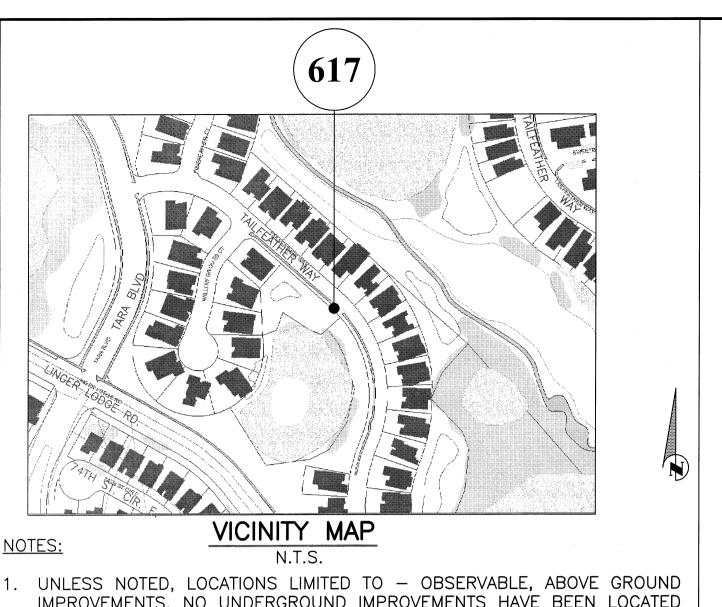
BR/CB 3/31/2011

JS

JAMES STOCKWELL, P.E.

FLORIDANA. 14.67198

SEC./TWN./RGE | 24/35S/18E



UNLESS NOTED, LOCATIONS LIMITED TO — OBSERVABLE, ABOVE GROUND IMPROVEMENTS, NO UNDERGROUND IMPROVEMENTS HAVE BEEN LOCATED EXCEPT THOSE SHOWN HEREON. SOME FEATURES MAY BE EXAGGERATED FOR CLARITY. DIMENSIONS SHOWN SUPERSEDE SCALED DIMENSIONS.

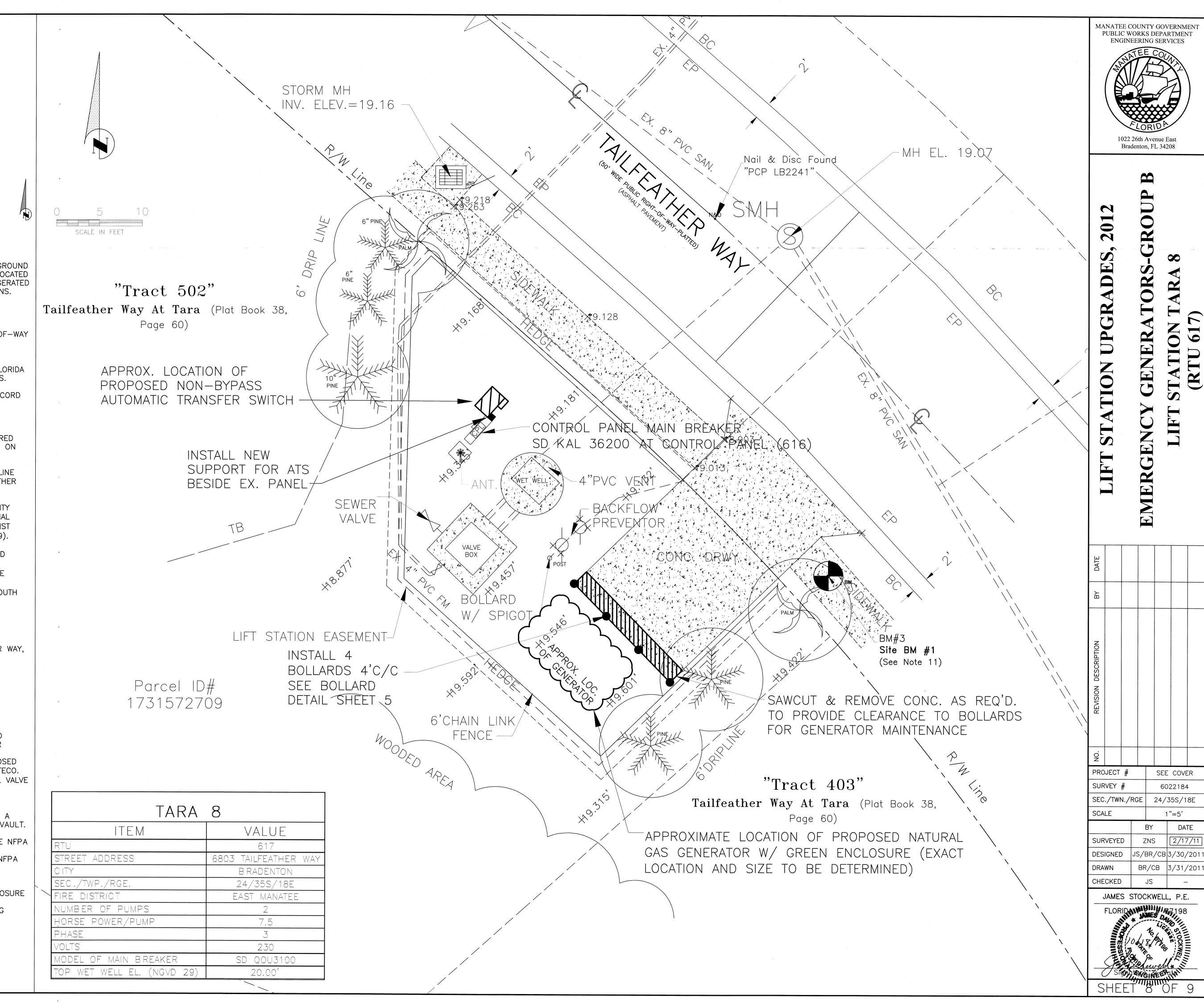
- 2. THIS SURVEY DOES NOT CERTIFY OR WARRANTY: TITLE, ZONING, EASEMENTS. OR FREEDOM OF ENCUMBRANCES.
- 3. NO INSTRUMENTS OF RECORD REFLECTING EASEMENTS, RIGHTS—OF—WAY AND/OR OWNERSHIP ARE KNOWN BY, OR WERE FURNISHED THIS SURVEYOR EXCEPT AS SHOWN HEREON.
- THIS SURVEY MEETS THE REQUIREMENTS OF CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE, AS IT PERTAINS TO TOPOGRAPHIC SURVEYS.
- . SUBJECT TO EASEMENTS, DEDICATIONS AND RESTRICTIONS OF RECORD NOT PROVIDED TO THE SURVEYOR AND MAPPER.
- 6. THIS SURVEY DOES NOT REFLECT OR DETERMINE OWNERSHIP.
- 7. ALL MEASUREMENTS SHOWN HEREON ARE GROUND FIELD MEASURED UNLESS SPECIFICALLY ANNOTATED, NOTED OR OTHERWISE STATED ON THIS SKETCH OF SURVEY.
- 8. THE BASIS OF BEARING FOR THIS SURVEY IS THE SURVEY BASELINE WHICH BEARS N48°42'11"W (PLAT), THE CENTERLINE OF TAILFEATHER WAY.
- 9. THE ELEVATIONS SHOWN HEREON ARE BASED ON MANATEE COUNTY BENCHMARK 87-29-10, PUBLISHED ELEVATION 18.211', NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD29), AND CHECKED AGAINST BENCHMARK 87-29-09, PUBLISHED ELEVATION 17.337', (NGVD29).
- 10. SITE BENCHMARK #1 LABELED "BM 3", RIVET & DISC STAMPED "MAN.CTY TRAV.PT." SET IN THE CENTERLINE SOUTH CONCRETE SIDEWALK, LOCATED 12'+/— EAST OF THE CENTERLINE CONCRETE DRIVEWAY AT LIFT STATION RTU 617 AND 37'+/— EAST OF THE CENTERLINE CONCRETE DRIVEWAY HOUSE #6862 AND 20'+/— SOUTH OF THE CENTERLINE TAILFEATHER WAY, ELEVATION=19.06'.
- 11. SITE BENCHMARK #2 NOT SHOWN ON THIS SURVEY "BM 1",

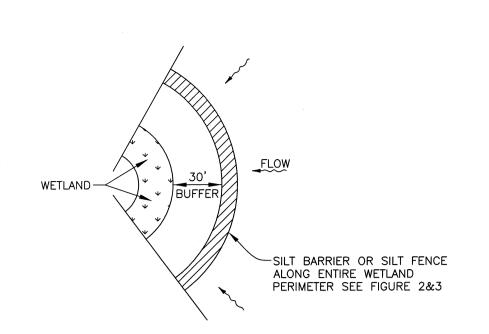
 MULTIPLE RODS DRIVEN TO REFUSAL WITH A ALUMINUM 3\frac{1}{4}" DISC

 STAMPED "2011 OKEECHOBEE" LOCATED 32'+/- EAST OF THE

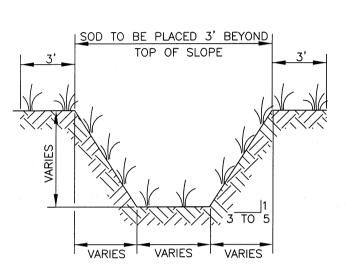
 CENTERLINE INTERSECTION OF TARA BOULEVARD AND TAILFEATHER WAY,

 ELEVATION=18.59'.
- 12. PARCEL INFORMATION SHOWN HEREON WAS GATHERED FROM THE MANATEE COUNTY GEOGRAPHIC INFORMATION SYSTEMS PROPERTY LOCATOR WEB SITE.
- 13. MONUMENTATION AT PROPERTY CORNERS DEPICTED WERE NOT RECOVERED OR SET UNLESS NOTED.
- 14. 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.
- 5. 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.
- 16. ANY ELECTRICAL WIRING THAT IS INSTALLED BETWEEN THE LIFT
 STATION'S WET WELL AND VALVE VAULT SHALL BE INSTALLED IN A
 CARRIER PIPE THAT IS STRAPPED TO THE WET WELL OR VALVE VAULT.
- 17. 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.
- 18. INSTALL A 10# ABC FIRE EXTINGUISHER IN A WATERPROOF ENCLOSURE MOUNTED TO THE MAIN CONTROL CABINET SUPPORT POSTS AND INSTALL A KNOX LOCK ON THE ENCLOSURE FENCE GATE LOCKING CHAIN, IF APPLICABLE.





WETLAND BUFFER

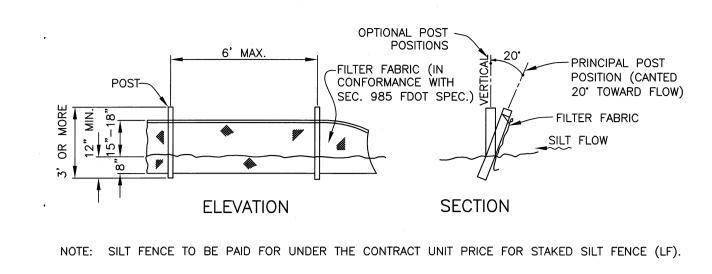


TYPICAL SWALE SECTION FIGURE 5

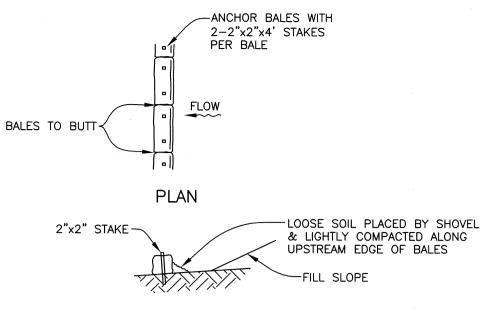
TURBIDITY BARRIER SEE FIGURE 4

EDGE OF WATER

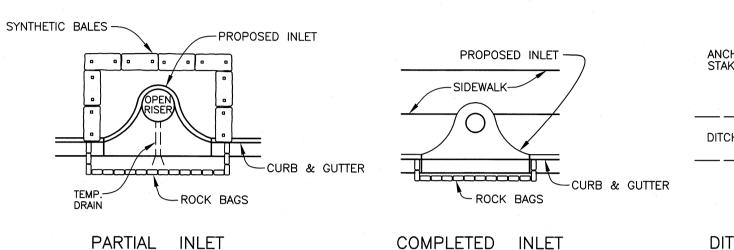
EXISTING LAKE



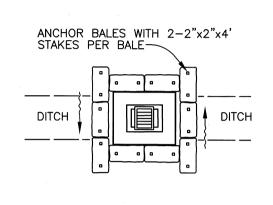
TYPICAL SILT FENCE FIGURE 2



TYPICAL BALE SILT BARRIER



COMPLETED INLET



DITCH BOTTOM INLET



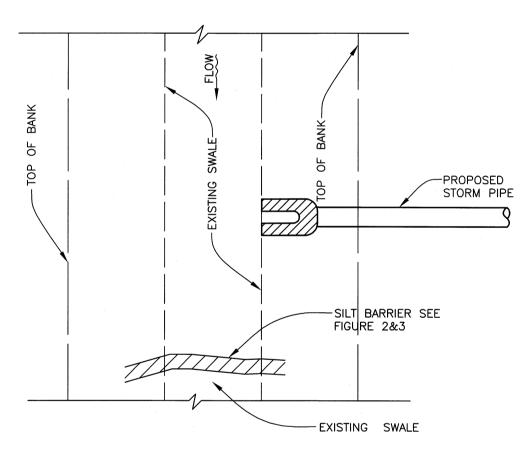
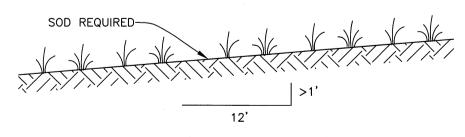


FIGURE 10



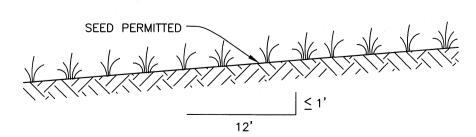
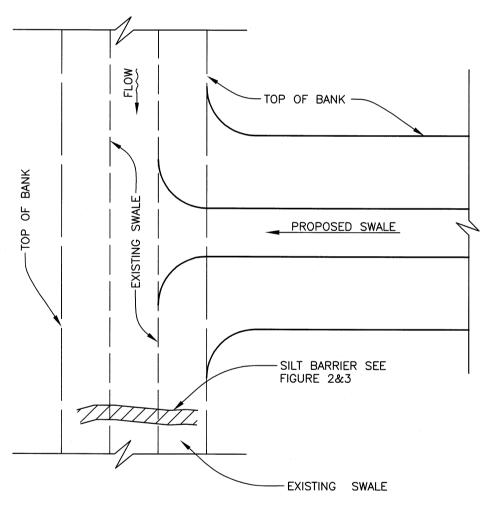
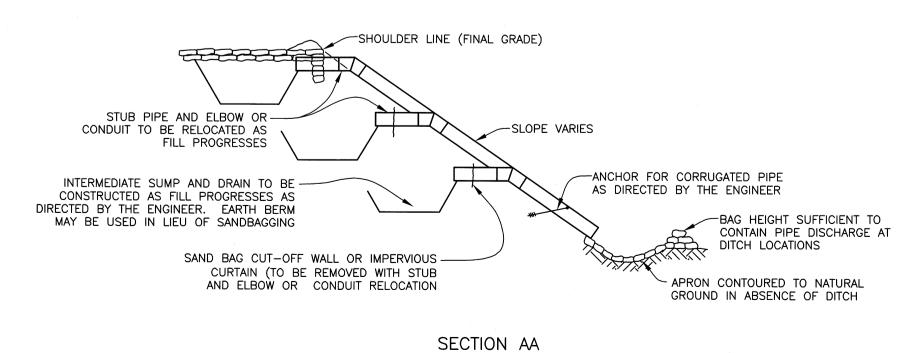


FIGURE 13



SILT BARRIER AT CONNECTION OF SWALE TO EXISTING SWALE FIGURE 11



TEMPORARY SLOPE DRAIN FIGURE 15

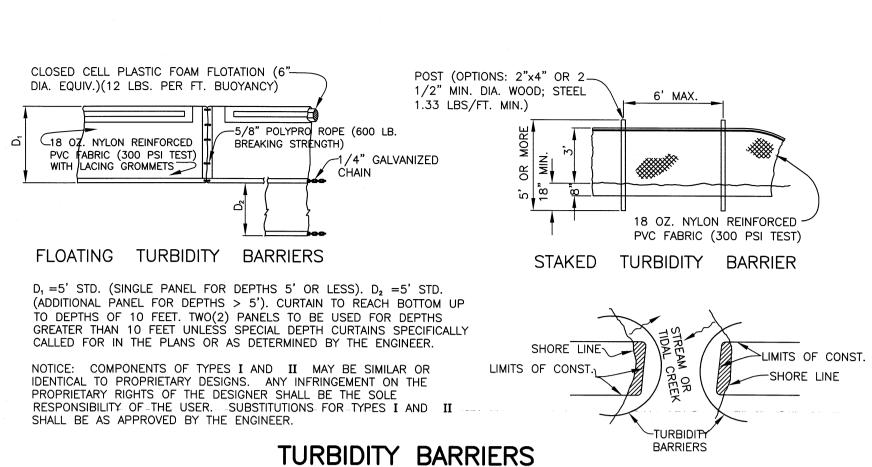
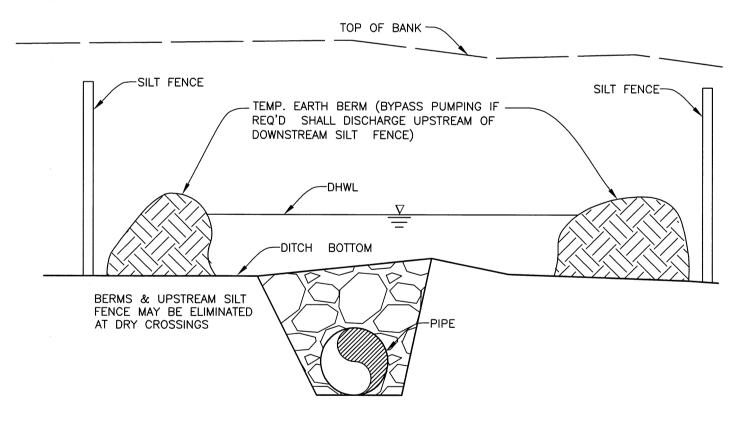


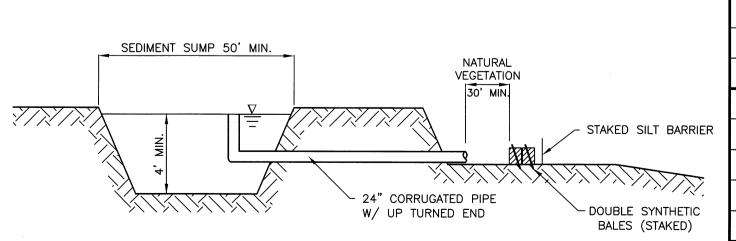
FIGURE 4

TYPE III SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS

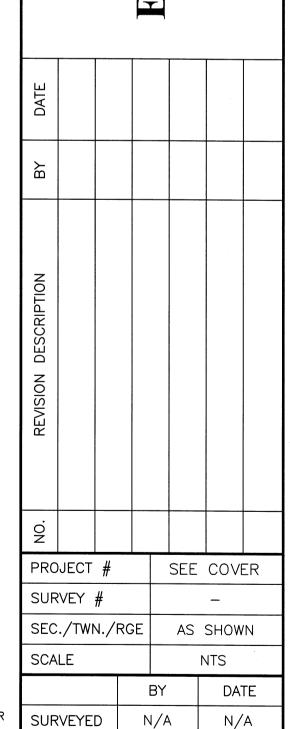
STAKED SILT BARRIER OR SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS



UNDERGROUND PIPE CROSSING FIGURE 12



SEDIMENT SUMP SECTION



MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES

1022 26th Avenue East

Bradenton, FL 34208

X

201

JAMES STOCKWELL, P.E. FLORIDANHIE! 14/67198

DESIGNED

CHECKED

DRAWN

JS/BR/CB|3/30/201

BR/CB 3/31/20

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

SOD ALONG CURB AND AROUND INLET FIGURE 14

-STORM INLET

TURBIDITY BARRIER AT CONNECTION OF

STORM PIPE TO EXISTING LAKE

FIGURE 9

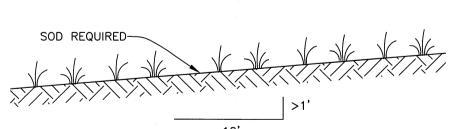
WHERE A DAM IS REQUIRED

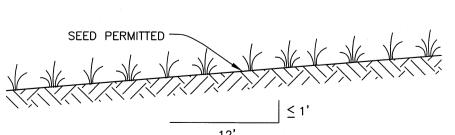
WITHIN EXISTING LAKE FOR CONSTRUCTION OF STORM PIPE, TURBIDITY BARRIER SHALL BE PLACED BEYOND THE DAM

SOD TO BE PLACED 3'-

TYPICAL RETENTION/DETENTION POND SECTION

SILT BARRIER AT CONNECTION OF STORM PIPE TO EXISTING SWALE





GRASS SLOPES