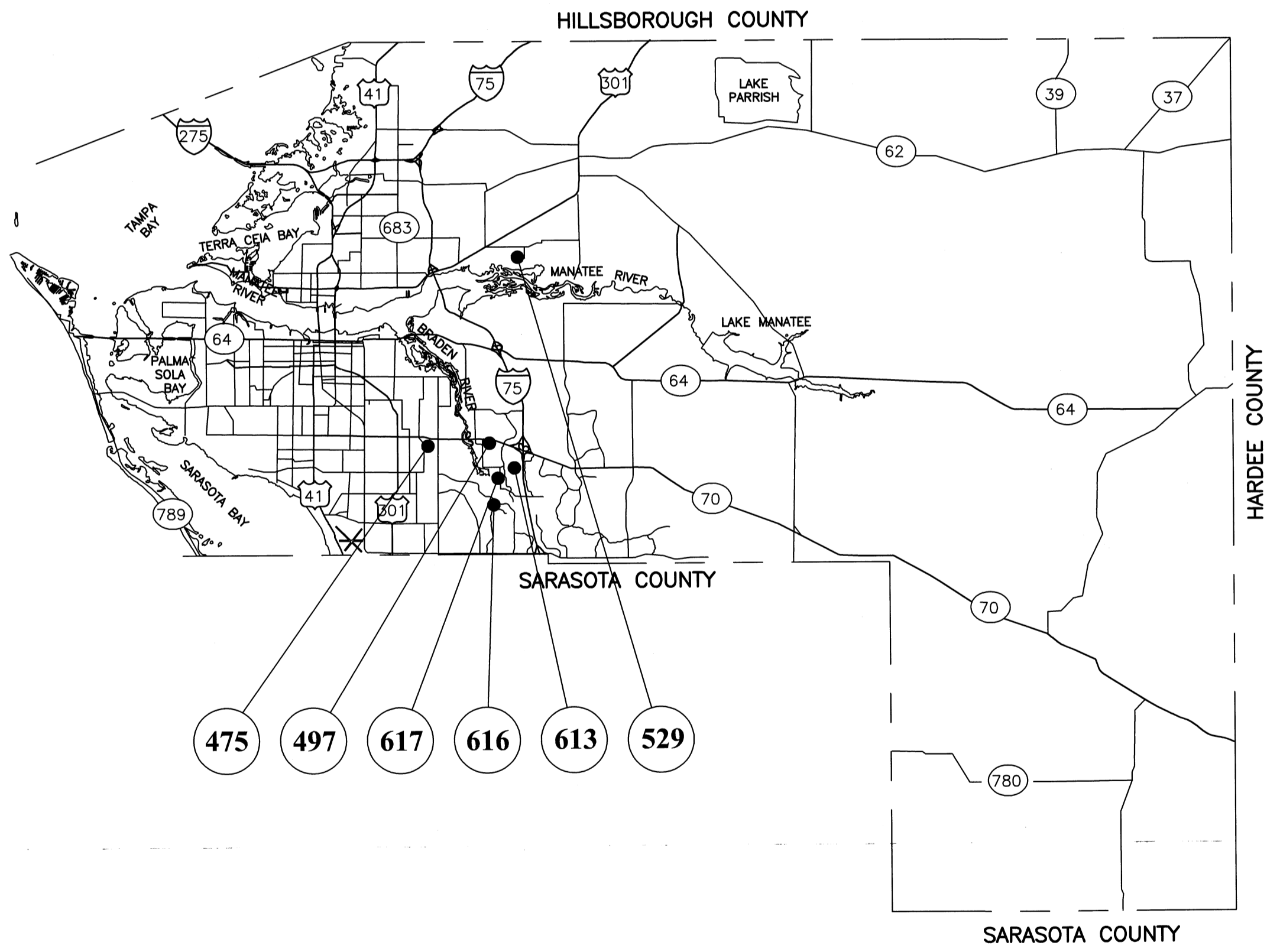


# MANATEE COUNTY, FLORIDA LIFT STATION UPGRADES, 2012 EMERGENCY GENERATORS-GROUP B

SEPTEMBER 2011

LIFT STATION UPGRADES, 2012  
EMERGENCY GENERATORS-GROUP B  
COVER SHEET

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
△1.	COVER SHEET
2.	GENERAL NOTES & LEGEND
3.	LIFT STATION RTU 475
△4.	LIFT STATION RTU 497
△5.	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 Administrative 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.




Know what's below.  
Call before you dig.

NO.	REVISION DESCRIPTION	BY	DATE
△1	REVISE TARA 2 & 6 TO NATURAL GAS	CB/JS	11/29/11

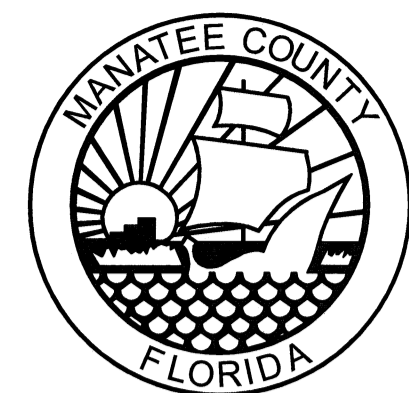
PROJECT #	AS SHOWN
SURVEY #	AS SHOWN
SEC./TWN./RGE	AS SHOWN
SCALE	AS SHOWN
	BY DATE
SURVEYED	ZNS VARIES
DESIGNED	JS/BR/CB 3/30/2011
DRAWN	BR/CB 3/31/2011
CHECKED	JS -

JAMES STOCKWELL, P.E.  
FLORIDA PROFESSIONAL ENGINEER NO. 67198

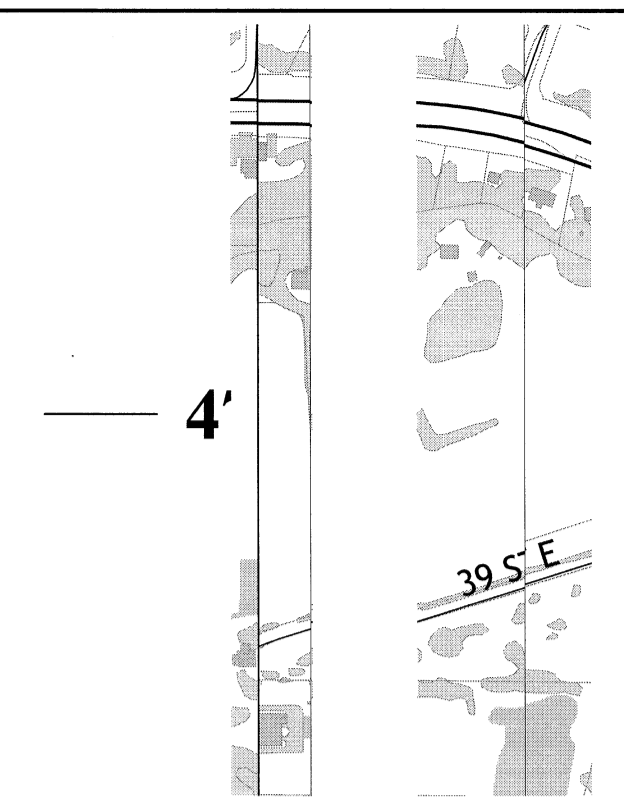
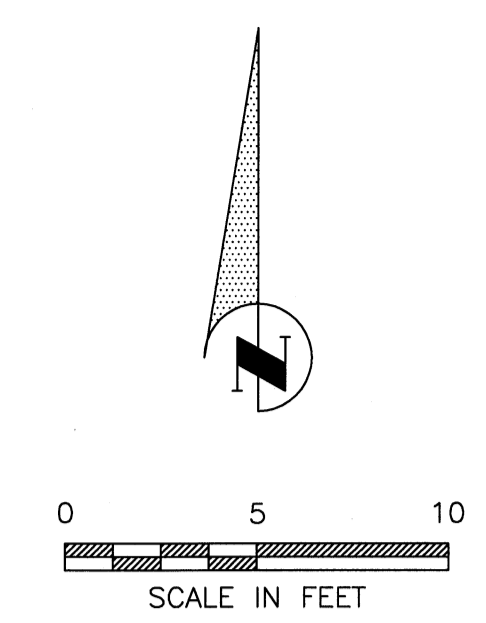


COPYRIGHT 2010 MANATEE COUNTY GOVERNMENT S:\P\00\_Engineering\_Shore\Util Eng Design\Proj\San Swr - LS Upgrades\Gen\2012 Egen\GENERAL (Group A & B)\c-dwgs\Egen 2012 GROUP B\_Large\Cover\_11/29/2011 11:27 AM Cara Boyer 1:0:27:58, D-Arch (24"x36")





**LIFT STATION UPGRADES, 2012**  
**EMERGENCY GENERATORS-GROUP B**  
**LIFT STATION GARDEN LAKES**

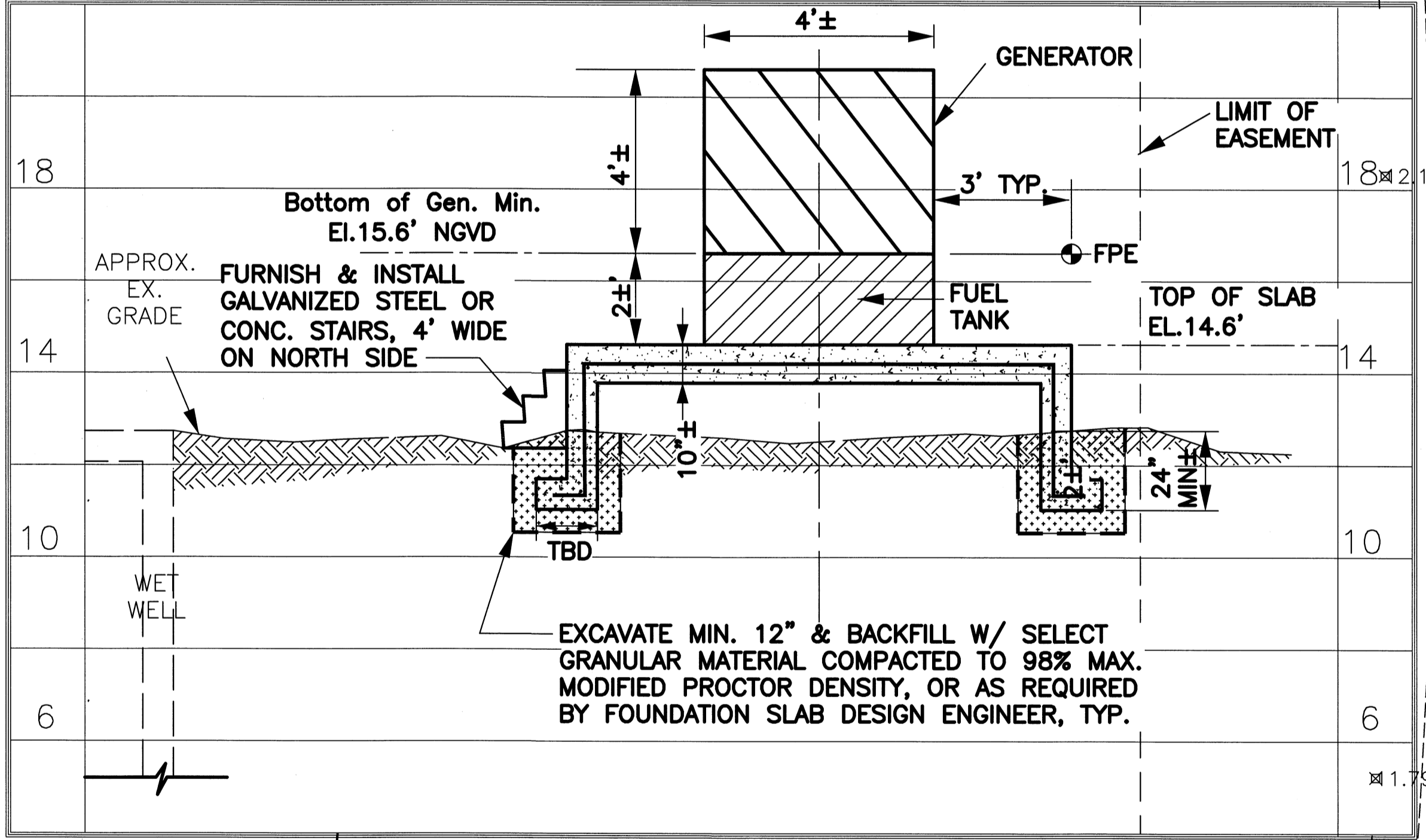


VICINITY MAP  
N.T.S.

- NOTES:**
- THIS IS NOT A BOUNDARY SURVEY.
  - 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.
  - USERS OF THIS SURVEY MAP ARE DIRECTED TO ACKNOWLEDGE THE CONTENT OF THE SURVEYOR'S REPORT.
  - THE SURVEY MAP AND REPORT ARE NOT FULL AND COMPLETE WITHOUT THE OTHER.
  - 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.
  - 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.
  - RIGHT-OF-WAY MAP FOR STATE ROAD 70 (SEE DATA SOURCES B) WHICH STATES "BEARING BASIS IS THE FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE".
  - 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).
  - 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>.
  - 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.
  - 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.
  - 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.
  - 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.
  - 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

**NOTES:**

- GENERATOR SLAB TO EXTEND 3' FROM EACH SIDE OF GENERATOR.
- CONTRACTOR TO SUBMIT REINFORCED CONCRETE FOUNDATION SLAB DESIGN SEALED BY PROFESSIONAL ENGINEER LICENSED IN FLORIDA.
- REGRADE EX. SITE AS REQUIRED TO ENSURE SLAB IS NO MORE THAN 29" ABOVE SURROUNDING FINISHED GRADE AND MAINTAIN SURFACE DRAINAGE.
- INSERT PREFORMED JOINT FILLER BETWEEN SLAB & CONCRETE STAIRS. STAIRS SHALL INCLUDE GALVANIZED STEEL HANDRAILS AND MEET ALL OSHA AND FLORIDA BUILDING CODE (2010) REQUIREMENTS. ALL STAIRS AND HANDRAIL COSTS SHALL BE INCLUDED IN SLAB PAY ITEM.



ALL AREA ON THIS PLAN IS  
PEARCE CANAL FLOODWAY

APPROX. LOCATION OF  
PROPOSED NON-BYPASS  
AUTOMATIC TRANSFER SWITCH.  
BOTTOM OF CABINET MIN. ELEV.  
15.6 FT. NGVD OR MOUNT ON  
GENERATOR SLAB, AS DIRECTED  
BY LIFT STATION SUPERVISOR.

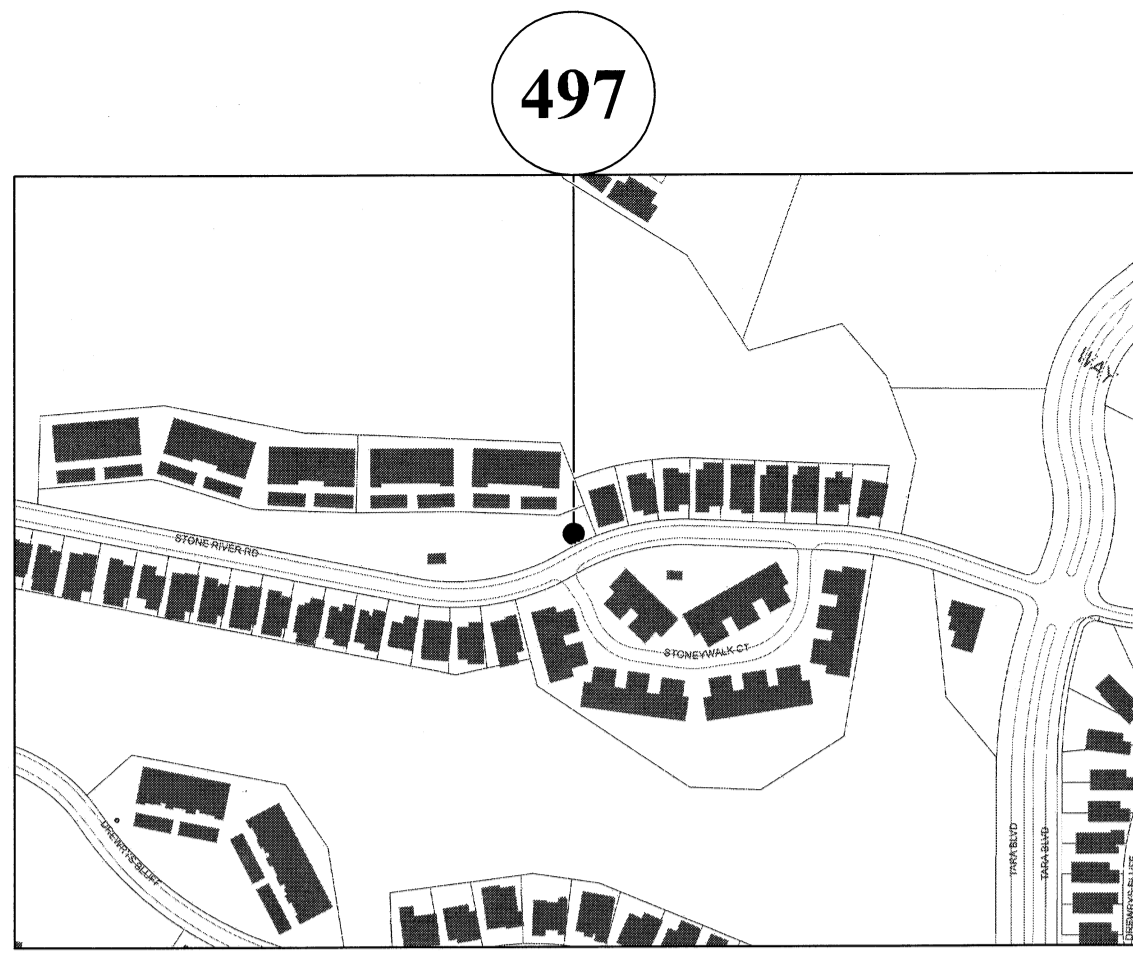
GARDEN LAKES	
ITEM	VALUE
RTU	475
STREET ADDRESS	5407 37th St. E.
CITY	BRADENTON
SEC./TWN./RGE	17/35/18
FIRE DISTRICT	SOUTHERN MANATEE
NUMBER OF PUMPS	2
HORSE POWER/PUMP	20
PHASE	3
VOLTS	230
MODEL OF MAIN BREAKER	SD QBL32200
TOP WET WELL EL. (NGVD 29)	12.74'
FLOOD ZONE	AE

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	402-5124680
SURVEY #	0577-0006
SEC./TWN./RGE	17/35/18
SCALE	1"=5'
BY	DATE
SURVEYED	FDC 06/23/09
DESIGNED	JS/BR/CB 3/30/2011
DRAWN	BR/CB 3/31/2011
CHECKED	JS

JAMES STOCKWELL, P.E.  
FLORIDA LICENSE # 67198

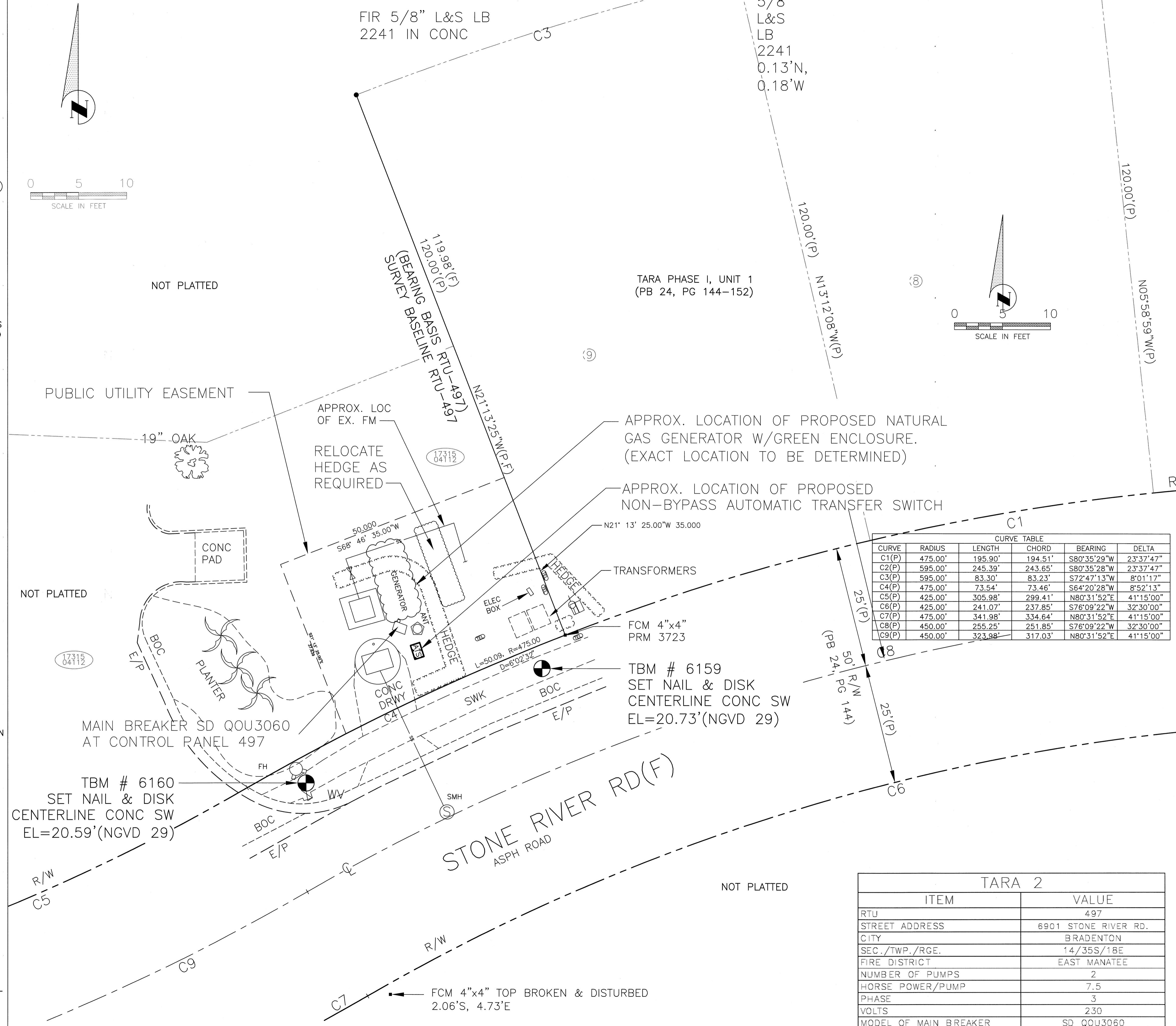
*(Signature)*  
Date



VICINITY MAP  
N.T.S.

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 MAP.
- 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 SEPARATE LEVEL LOOPS USING DIFFERENTIAL LEVELING TECHNIQUES. CLOSURES ACHIEVED ARE 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.N.M.", ELEVATION = 16.263 FEET; AS PUBLISHED BY THE MANATEE COUNTY WEB SITE AT <http://public.mymanatee.org>.
- 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.
- MONUMENTATION AT PROPERTY CORNERS DEPICTED WERE NOT RECOVERED OR SET UNLESS NOTED.
- 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.
- 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.
- 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.
- 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.



CURVE	RADIUS	LENGTH	CHORD	BEARING	DELTA
C1(P)	475.00'	195.90'	194.51'	S80°35'29"W	23°37'47"
C2(P)	595.00'	245.39'	243.65'	S80°35'28"W	23°37'47"
C3(P)	595.00'	83.30'	83.23'	S72°47'13"W	8°01'17"
C4(P)	475.00'	73.54'	73.46'	S64°20'28"W	8°52'13"
C5(P)	425.00'	305.98'	299.41'	N80°31'52"E	41°15'00"
C6(P)	425.00'	241.07'	237.85'	S76°09'22"W	32°30'00"
C7(P)	475.00'	341.98'	334.64'	N80°31'52"E	41°15'00"
C8(P)	450.00'	255.25'	251.85'	S76°09'22"W	32°30'00"
C9(P)	450.00'	323.98'	317.03'	N80°31'52"E	41°15'00"

ITEM	VALUE
RTU	497
STREET ADDRESS	6901 STONE RIVER RD.
CITY	BRADENTON
SEC./TWP./RGE.	14/35S/18E
FIRE DISTRICT	EAST MANATEE
NUMBER OF PUMPS	2
HORSE POWER/PUMP	7.5
PHASE	3
VOLTS	230
MODEL OF MAIN BREAKER	SD QOU3060
TOP WET WELL EL. (NGVD 29)	21.39'

LIFT STATION UPGRADES, 2012  
**EMERGENCY GENERATORS-GROUP B**  
LIFT STATION TARA 2  
(RTU 497)

NO.	REVISION DESCRIPTION	BY	DATE
1	REVISE TARA 2 & 6 TO NATURAL GAS	JS/JS	11/29/11

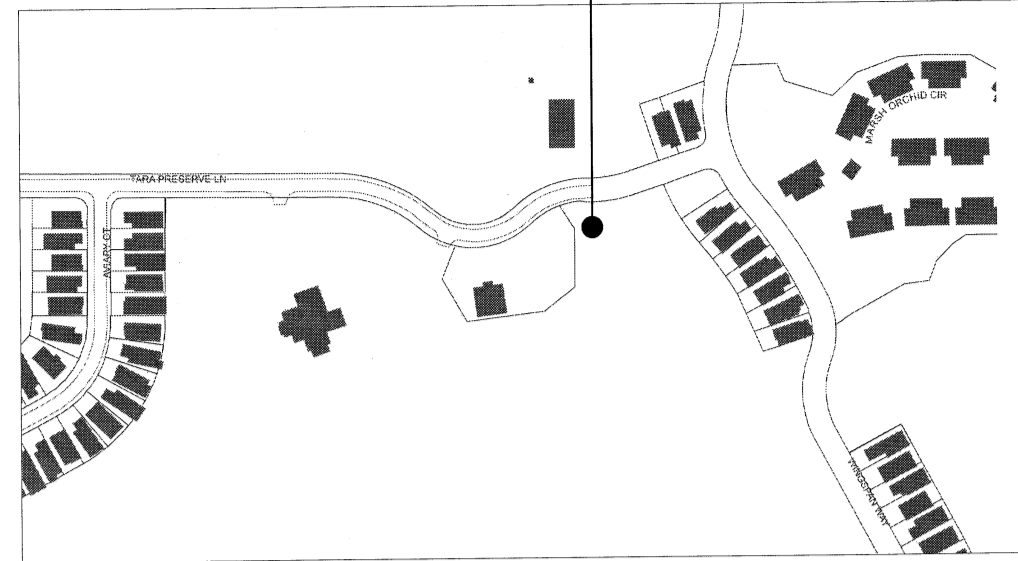
PROJECT #	SEE COVER
SURVEY #	FDC 0577-0006
SEC./TWP./RGE	14/35S/18E
SCALE	1"=5'

	BY	DATE
SURVEYED	FDC	6/24/09
DESIGNED	JS/BR/CB	3/30/2011
DRAWN	BR/CB	3/31/2011
CHECKED	JS	-

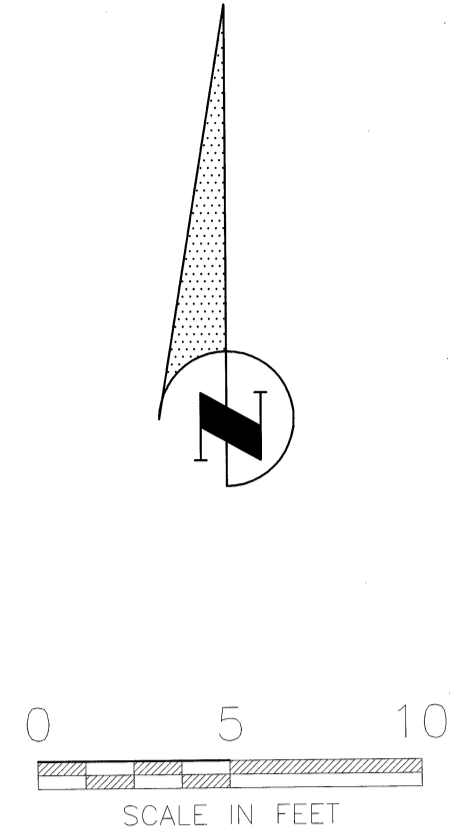
JAMES STOCKWELL, P.E.  
Professional Engineer  
No. 198  
State of Florida  
Exp. 12/31/2014

COPYRIGHT 2010 MANATEE COUNTY GOVERNMENT | S:\PMD\_Engineering\_Share\Util\_Eng\_Design\Proj\SAN SWR - LS Upgrades\ECons\2012\_Egens\GENERAL (Group A & B)\DWG\ECon\_2012\_GROUP B.dwg\Tara 2 RTU-497\_11/29/2011 11:01 AM Cara Boyer, 11. D-Arch (24"x36")

613



VICINITY MAP  
N.T.S.



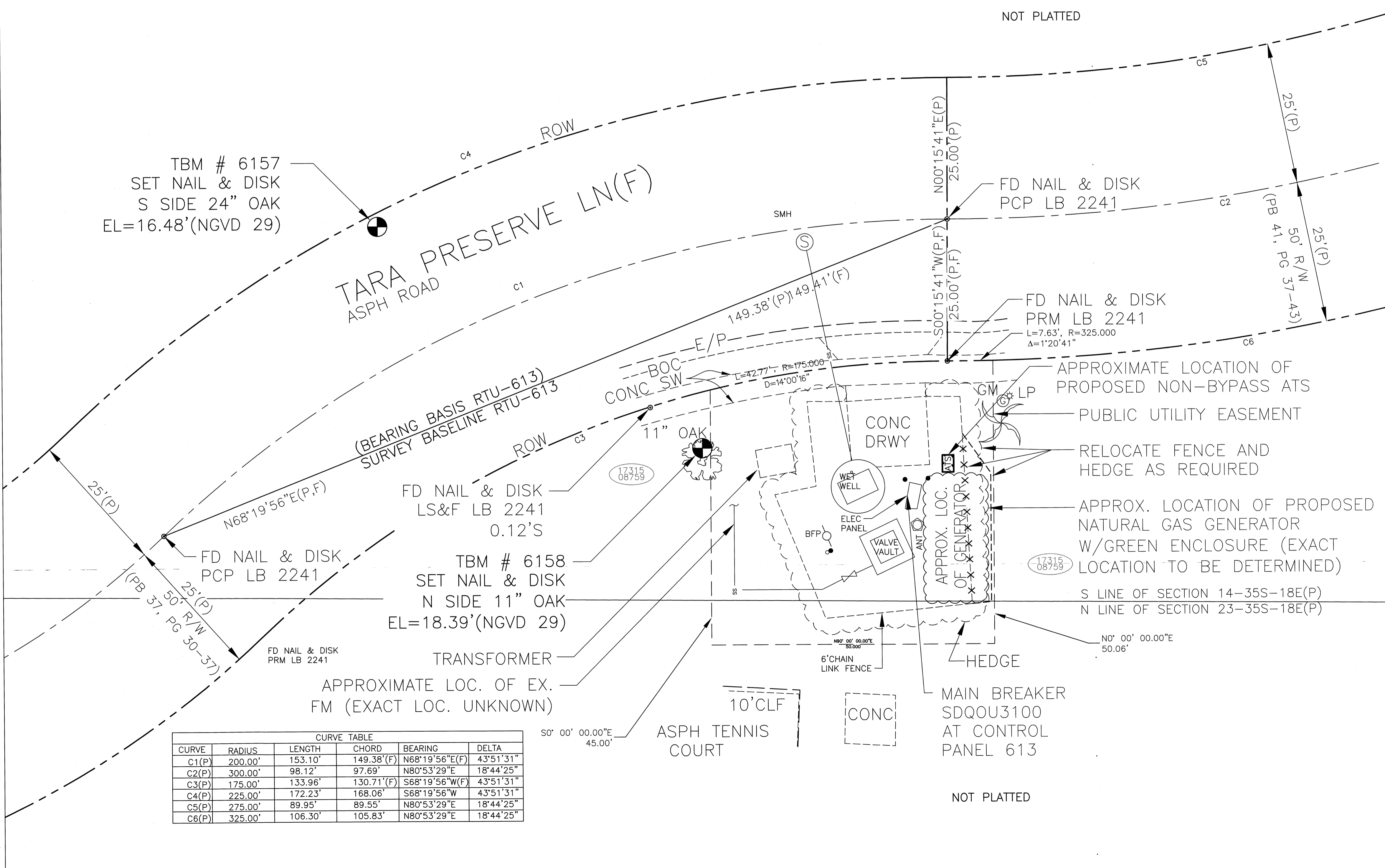
NOTES:

- 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 MAP.
- 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 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 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-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.
- 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.
- 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.
- 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.
- 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.
- 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.

TARA 6	
ITEM	VALUE
RTU	613
STREET ADDRESS	7406 TARA PRESERVE LN.
CITY	BRADENTON
SEC./TWP./RGE.	13/35S/18E
FIRE DISTRICT	EAST MANATEE
NUMBER OF PUMPS	2
HORSE POWER/PUMP	20
PHASE	3
VOLTS	460
MODEL OF MAIN BREAKER	SDQOU3100
TOP WET WELL EL. (NGVD 2)	18.48'



LIFT STATION UPGRADES, 2012  
EMERGENCY GENERATORS-GROUP B  
LIFT STATION TARA 6  
(RTU 613)



CURVE	RADIUS	LENGTH	CHORD	BEARING	DELTA
C1(P)	200.00'	153.10'	149.38'(F)	N68°19'56"E(F)	43°51'31"
C2(P)	300.00'	98.12'	97.69'	N80°53'29"E	18°44'25"
C3(P)	175.00'	133.96'	130.71'(F)	S68°19'56"W(F)	43°51'31"
C4(P)	225.00'	172.23'	168.06'	S68°19'56"W	43°51'31"
C5(P)	275.00'	89.95'	89.55'	N80°53'29"E	18°44'25"
C6(P)	325.00'	106.30'	105.83'	N80°53'29"E	18°44'25"

NO.	REVISION DESCRIPTION	DATE
1	REVISE TARA 2 & 6 TO NATURAL GAS	11/29/11

PROJECT #	SEE COVER
SURVEY #	FDC 0577-0006
SEC./TWN./RGE	14/35S/18E
SCALE	1"=5'

	BY	DATE
SURVEYED	FDC	6/24/09
DESIGNED	JS/BR/CB	3/30/2011
DRAWN	BR/CB	3/31/2011
CHECKED	JS	-

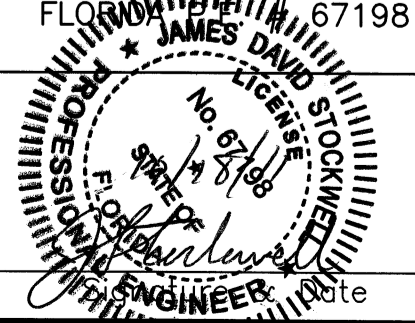
JAMES STOCKWELL, P.E.  
FLORIDA PROFESSIONAL ENGINEER #7198  
DATE: 3/21/09

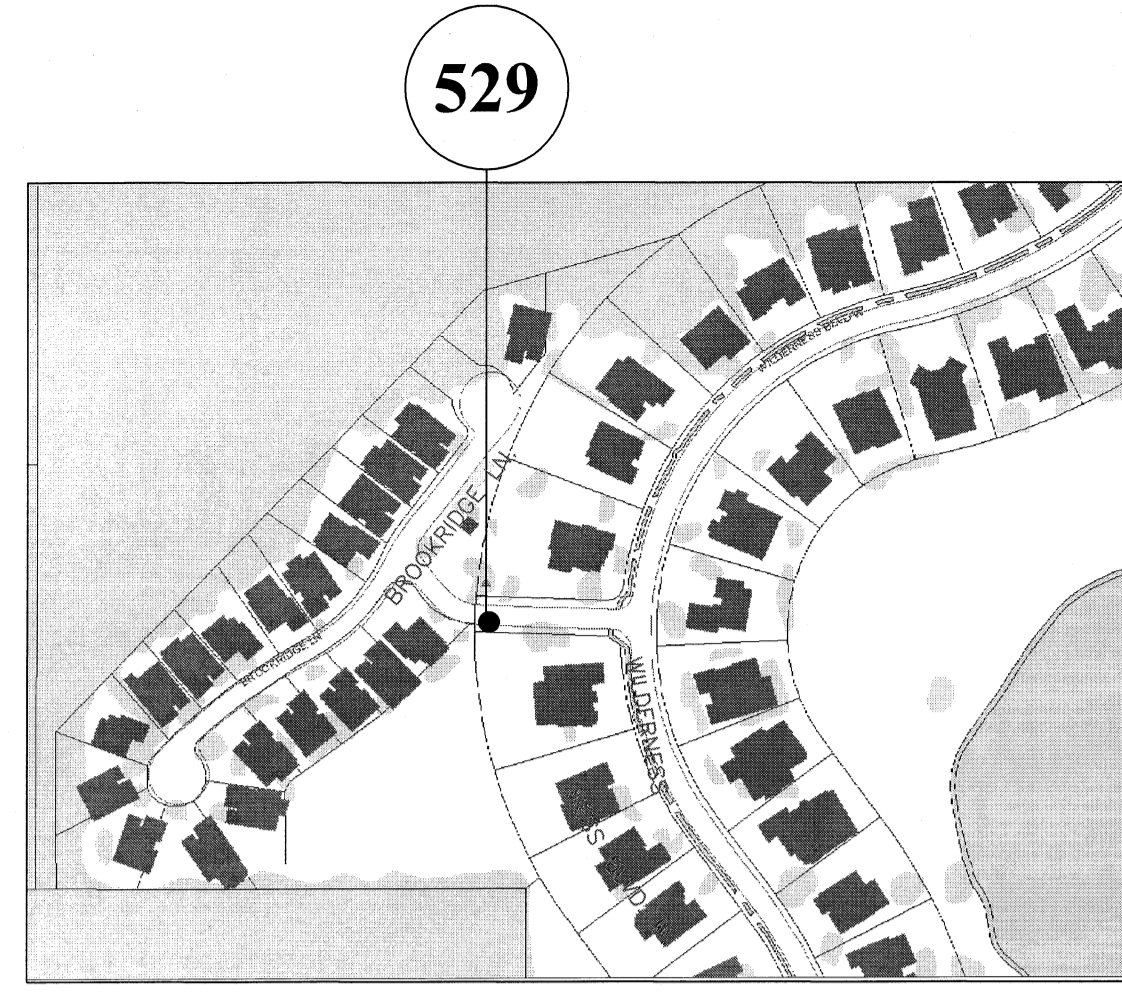
SHEET 5 OF 9

**LIFT STATION UPGRADES, 2012**  
**EMERGENCY GENERATORS-GROUP B**  
**LIFT STATION RIVER WILDERNESS 1**  
**(RTU 529)**

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	SEE COVER
SURVEY #	00-42668
SEC./TWP./RGE	06/34S/19E
SCALE	1"=5'
SURVEYED	BY: ZNS DATE: 2/15/11
DESIGNED	JS/BR/CB 3/30/2011
DRAWN	BR/CB 3/31/2011
CHECKED	JS -

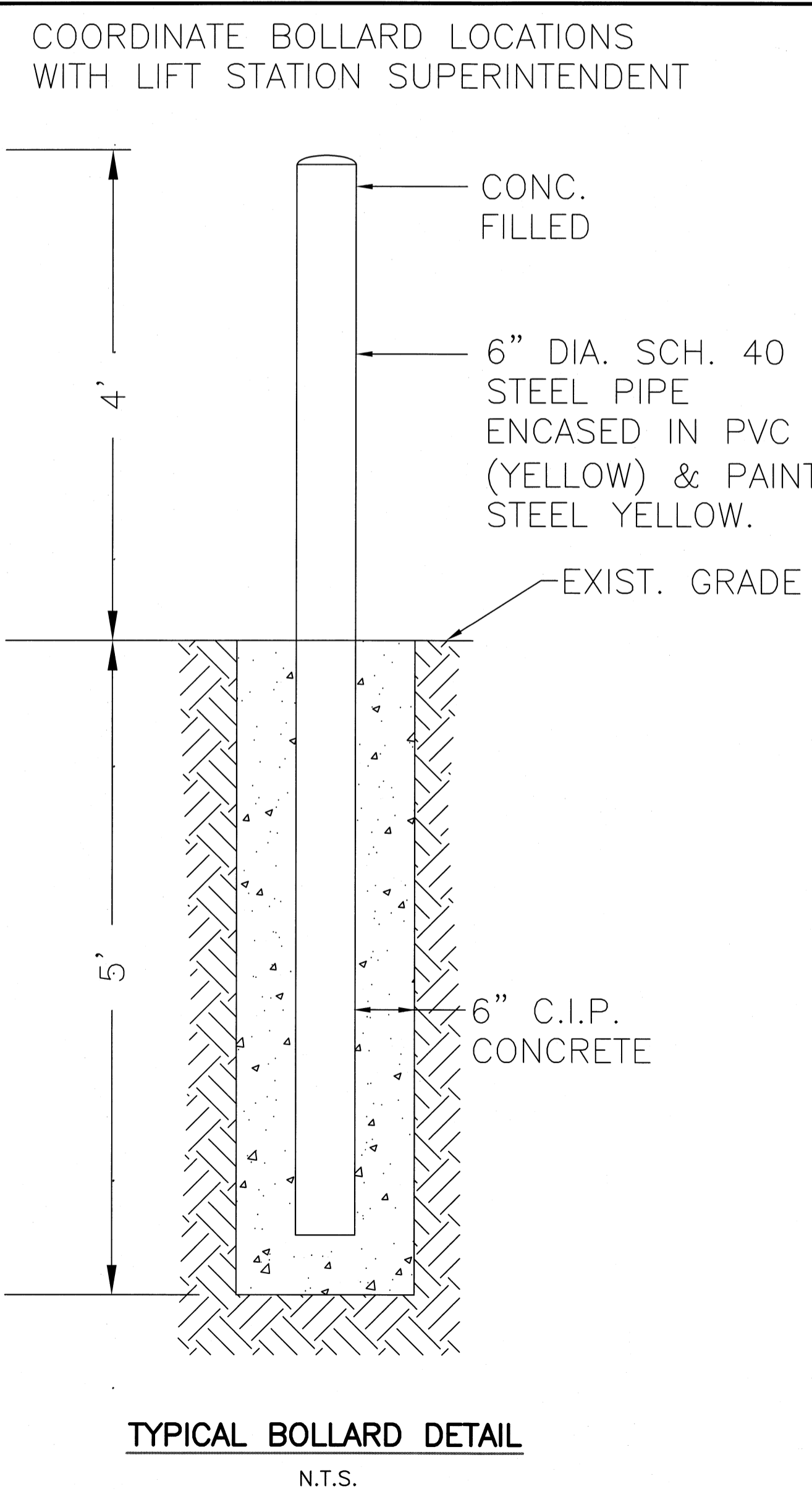
JAMES STOCKWELL, P.E.  
FLORIDA LICENSE NO. 67198  




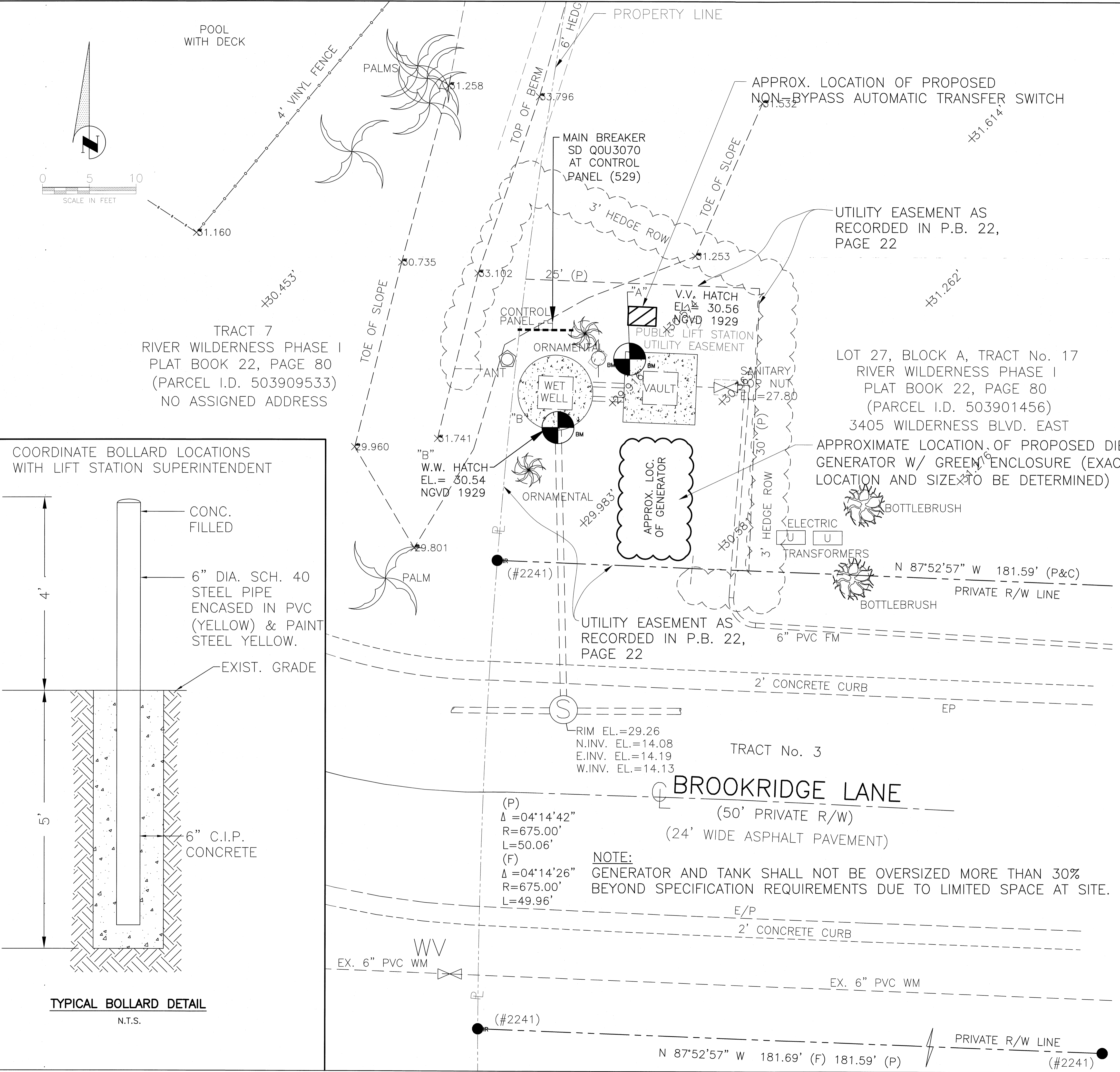
VICINITY MAP

- NOTES:**
- 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).
  - 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.
  - 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).
  - TITLE INFORMATION IS DERIVED FROM OWNERSHIP AND ENCUMBRANCE SEARCH BY TnT SEARCHING, INC., (FILE S11-016) DATED 2/10/2011.
  - 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.
  - 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.
  - 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.
- 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 SUBTRACTING 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'



TYPICAL BOLLARD DETAIL  
N.T.S.



TRACT 7  
RIVER WILDERNESS PHASE I  
PLAT BOOK 22, PAGE 80  
(PARCEL I.D. 503909533)  
NO ASSIGNED ADDRESS

COORDINATE BOLLARD LOCATIONS  
WITH LIFT STATION SUPERINTENDENT

CONC. FILLED  
6" DIA. SCH. 40 STEEL PIPE ENCASED IN PVC (YELLOW) & PAINT STEEL YELLOW.  
EXIST. GRADE  
6" C.I.P. CONCRETE

NOTE:  
GENERATOR AND TANK SHALL NOT BE OVERSIZED MORE THAN 30% BEYOND SPECIFICATION REQUIREMENTS DUE TO LIMITED SPACE AT SITE.

(P)  
Δ = 04°14'42"  
R = 675.00'  
L = 50.06'  
(F)  
Δ = 04°14'26"  
R = 675.00'  
L = 49.96'

TRACT No. 3  
**BROOKRIDGE LANE**  
(50' PRIVATE R/W)  
(24' WIDE ASPHALT PAVEMENT)

PRIVATE R/W LINE

N 87°52'57" W 181.69' (F) 181.59' (P)

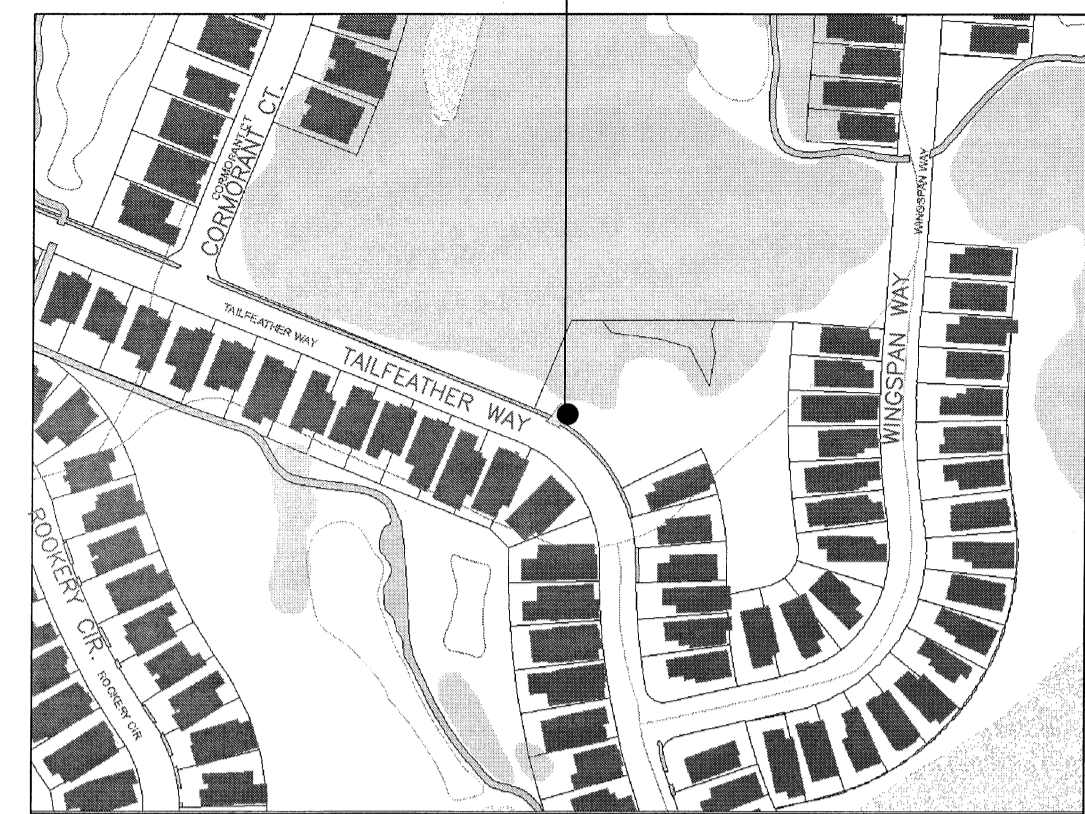
616

NOT PLATTED

PARCEL ID# 1731508759

"TRACT 500"

TAILFEATHER WAY AT TARA (Plat Book 38, Page 60)



VICINITY MAP  
N.T.S.

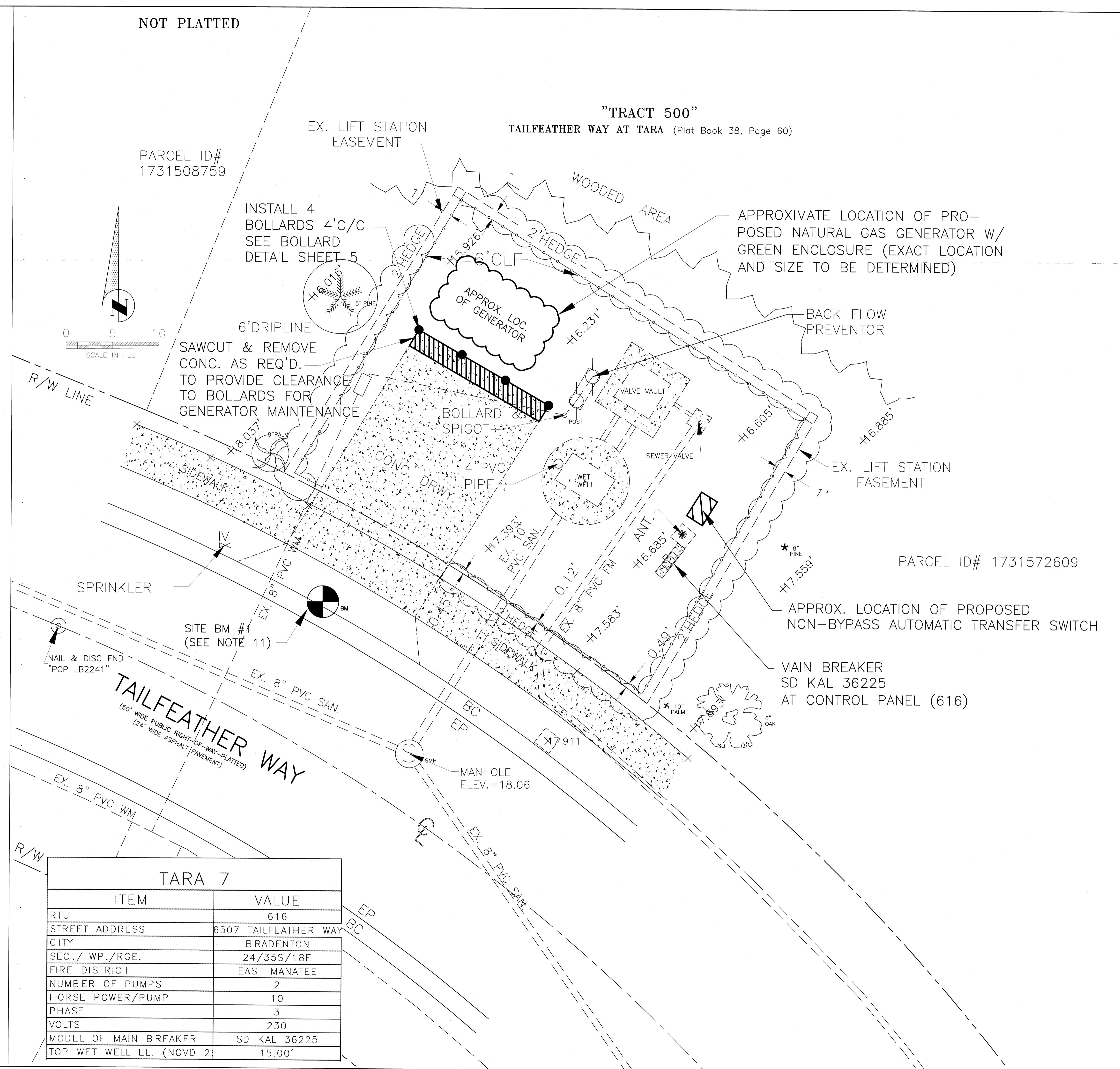
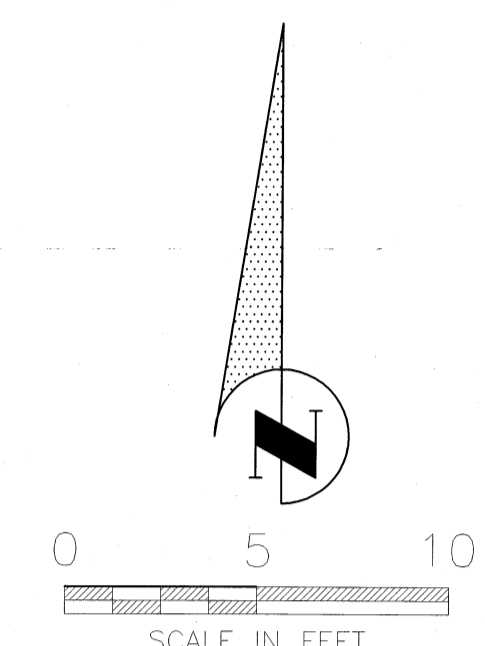
NOTES:

- 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.
- 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.
- THE BASIS OF BEARING FOR THIS SURVEY IS THE SURVEY BASELINE WHICH BEARS N68°02'04"W (PLAT), THE CENTERLINE OF TAILFEATHER WAY.
- 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).

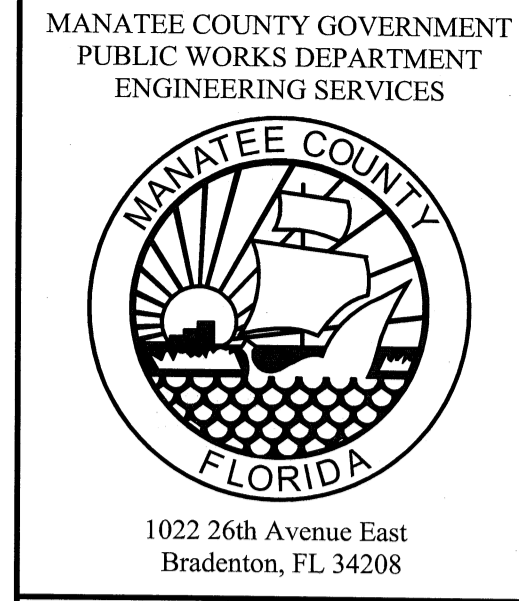
SITE BENCHMARK #1 - LABELED "BM 2", RIVET & DISC STAMPED "MAN.CTY TRAV.PT." SET IN THE 2.0 FEET WEST OF THE CENTERLINE CONCRETE DRIVEWAY AT LIFT STATION RTU 616 AND 15'+/- NORTH OF THE CENTERLINE OF TAILFEATHER WAY, ELEVATION=18.09'.

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

- PARCEL INFORMATION SHOWN HEREON WAS GATHERED FROM THE MANATEE COUNTY GEOGRAPHIC INFORMATION SYSTEMS PROPERTY LOCATOR WEB SITE.
- MONUMENTATION AT PROPERTY CORNERS DEPICTED WERE NOT RECOVERED OR SET UNLESS NOTED.
- 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.
- 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.
- 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.
- 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.
- THIS SITE IS IN FLOOD ZONE X. NO FLOOD PROTECTION IS REQUIRED.



TARA 7	
ITEM	VALUE
RTU	616
STREET ADDRESS	6507 TAILFEATHER WAY
CITY	BRADENTON
SEC./TWP./RGE.	24/35S/18E
FIRE DISTRICT	EAST MANATEE
NUMBER OF PUMPS	2
HORSE POWER/PUMP	10
PHASE	3
VOLTS	230
MODEL OF MAIN BREAKER	SD KAL 36225
TOP WET WELL EL. (NGVD 2)	15.00'



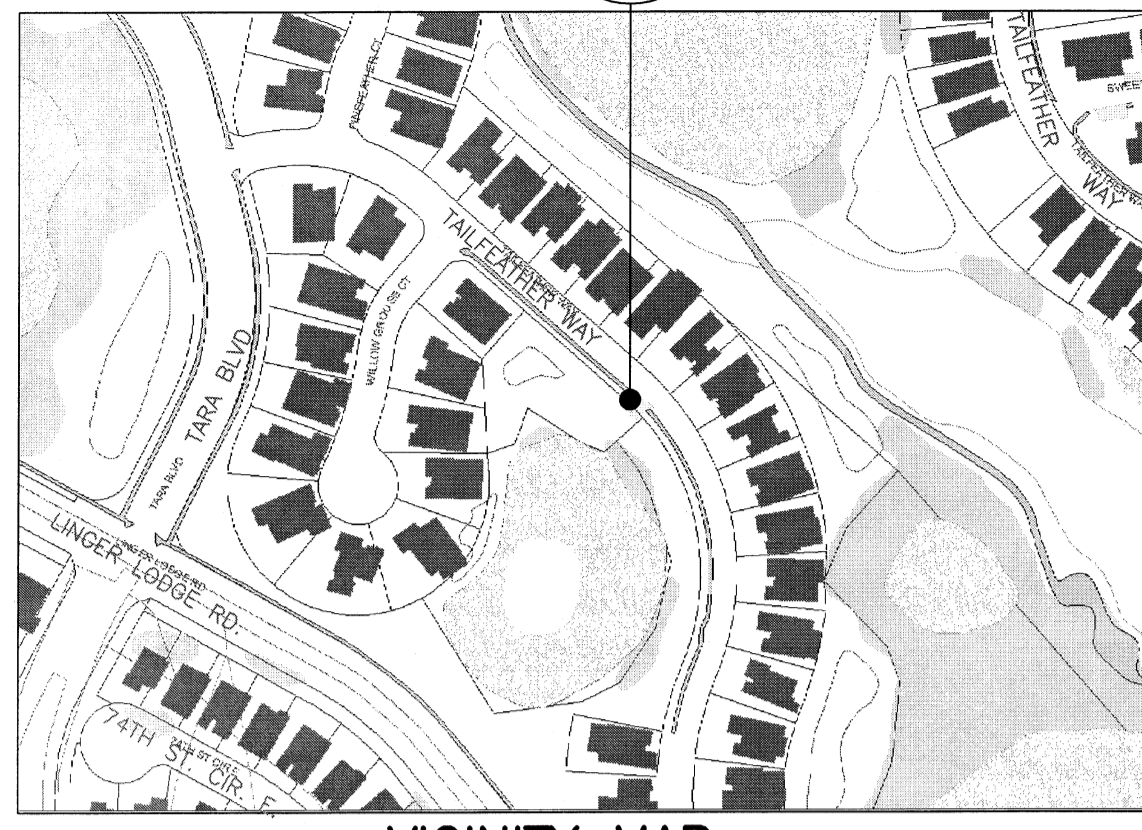
LIFT STATION UPGRADES, 2012  
EMERGENCY GENERATORS-GROUP B  
LIFT STATION TARA 7  
(RTU 616)

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	SEE COVER
SURVEY #	6022184
SEC./TWN./RGE	24/35S/18E
SCALE	1"=5'
SURVEYED	BY MCG DATE 2/17/11
DESIGNED	JS/BR/CB 3/30/2011
DRAWN	BR/CB 3/31/2011
CHECKED	JS -

JAMES STOCKWELL, P.E.  
FLORIDA PROFESSIONAL ENGINEER #17198  
Professional Engineer Seal

617



VICINITY MAP  
N.T.S.

- NOTES:
- 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.
  - THIS SURVEY DOES NOT CERTIFY OR WARRANTY: TITLE, ZONING, EASEMENTS, OR FREEDOM OF ENCUMBRANCES.
  - 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.
  - THIS SURVEY DOES NOT REFLECT OR DETERMINE OWNERSHIP.
  - ALL MEASUREMENTS SHOWN HEREON ARE GROUND FIELD MEASURED UNLESS SPECIFICALLY ANNOTATED, NOTED OR OTHERWISE STATED ON THIS SKETCH OF SURVEY.
  - THE BASIS OF BEARING FOR THIS SURVEY IS THE SURVEY BASELINE WHICH BEARS N48°42'11"W (PLAT), THE CENTERLINE OF TAILFEATHER WAY.
  - 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).
  - 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'.
  - SITE BENCHMARK #2 - NOT SHOWN ON THIS SURVEY "BM 1", MULTIPLE RODS DRIVEN TO REFUSAL WITH A ALUMINUM 3/4" DISC STAMPED "2011 OKEECHOBEE" LOCATED 32'+/- EAST OF THE CENTERLINE INTERSECTION OF TARA BOULEVARD AND TAILFEATHER WAY, ELEVATION=18.59'.
  - PARCEL INFORMATION SHOWN HEREON WAS GATHERED FROM THE MANATEE COUNTY GEOGRAPHIC INFORMATION SYSTEMS PROPERTY LOCATOR WEB SITE.
  - MONUMENTATION AT PROPERTY CORNERS DEPICTED WERE NOT RECOVERED OR SET UNLESS NOTED.
  - 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.
  - 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.
  - 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.
  - 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.

"Tract 502"  
Tailfeather Way At Tara (Plat Book 38,  
Page 60)

APPROX. LOCATION OF  
PROPOSED NON-BYPASS  
AUTOMATIC TRANSFER SWITCH

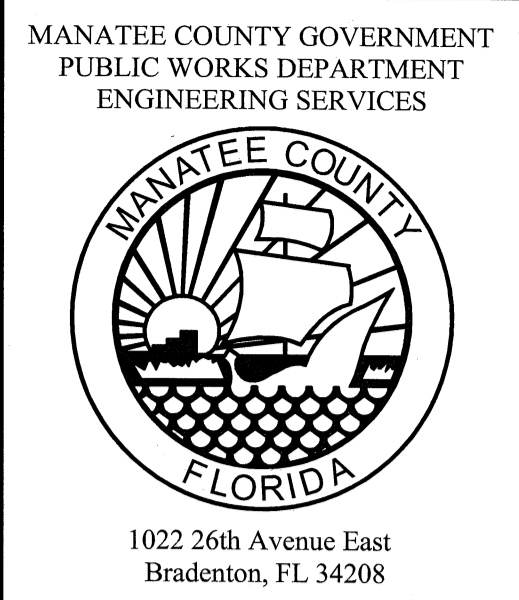
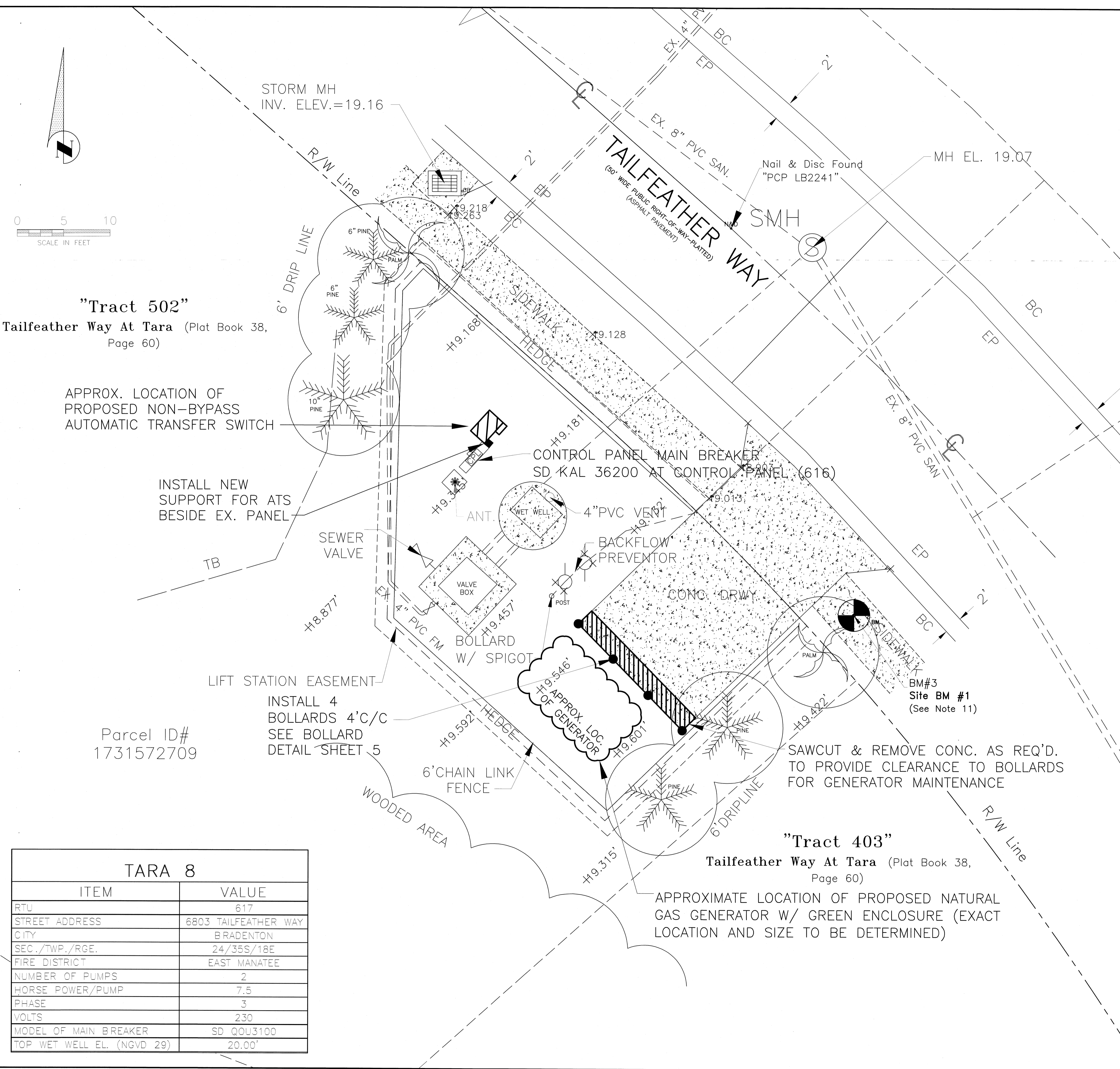
INSTALL NEW  
SUPPORT FOR ATS  
BESIDE EX. PANEL

Parcel ID#  
1731572709

TARA 8	
ITEM	VALUE
RTU	617
STREET ADDRESS	6803 TAILFEATHER WAY
CITY	BRADENTON
SEC./TWP./RGE.	24/35S/18E
FIRE DISTRICT	EAST MANATEE
NUMBER OF PUMPS	2
HORSE POWER/PUMP	7.5
PHASE	3
VOLTS	230
MODEL OF MAIN BREAKER	SD QOU3100
TOP WET WELL EL. (NGVD 29)	20.00'

"Tract 403"  
Tailfeather Way At Tara (Plat Book 38,  
Page 60)

APPROXIMATE LOCATION OF PROPOSED NATURAL  
GAS GENERATOR W/ GREEN ENCLOSURE (EXACT  
LOCATION AND SIZE TO BE DETERMINED)



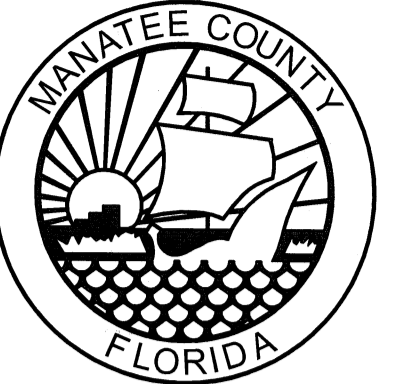
LIFT STATION UPGRADES, 2012  
EMERGENCY GENERATORS-GROUP B  
LIFT STATION TARA 8  
(RTU 617)

NO.	REVISION DESCRIPTION	BY	DATE

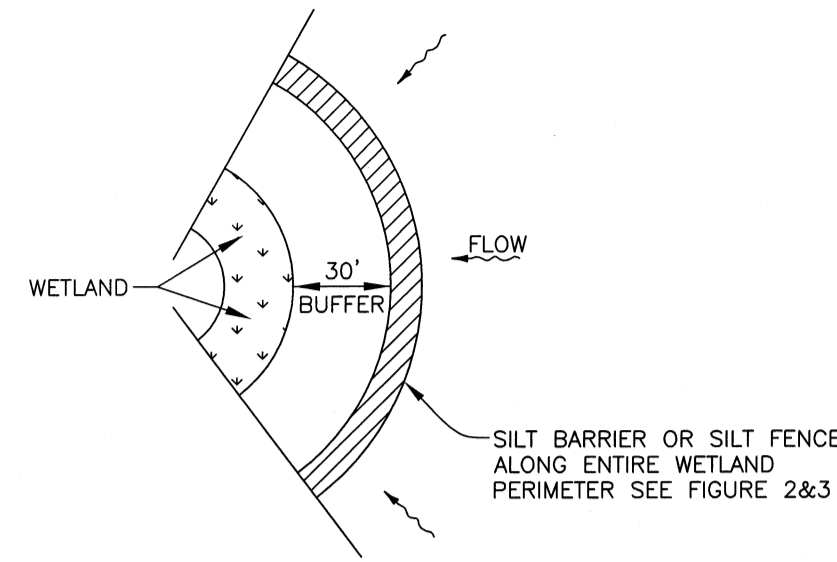
PROJECT #	SEE COVER
SURVEY #	6022184
SEC./TWP./RGE	24/35S/18E
SCALE	1"=5'
SURVEYED	ZNS [2/17/11]
DESIGNED	JS/BR/CB 3/30/2011
DRAWN	BR/CB 3/31/2011
CHECKED	JS -

JAMES STOCKWELL, P.E.  
FLORIDA LICENSE # 17198  
No. 17198  
JAMES DAVID STOCKWELL  
Professional Engineer  
State of Florida  
3601 UNIVERSITY BLVD  
BRADENTON, FL 34208

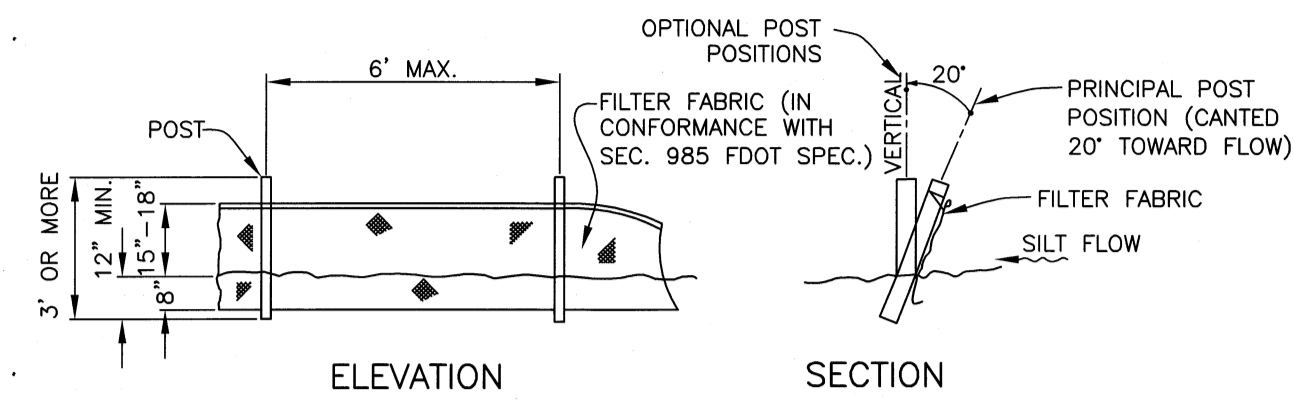




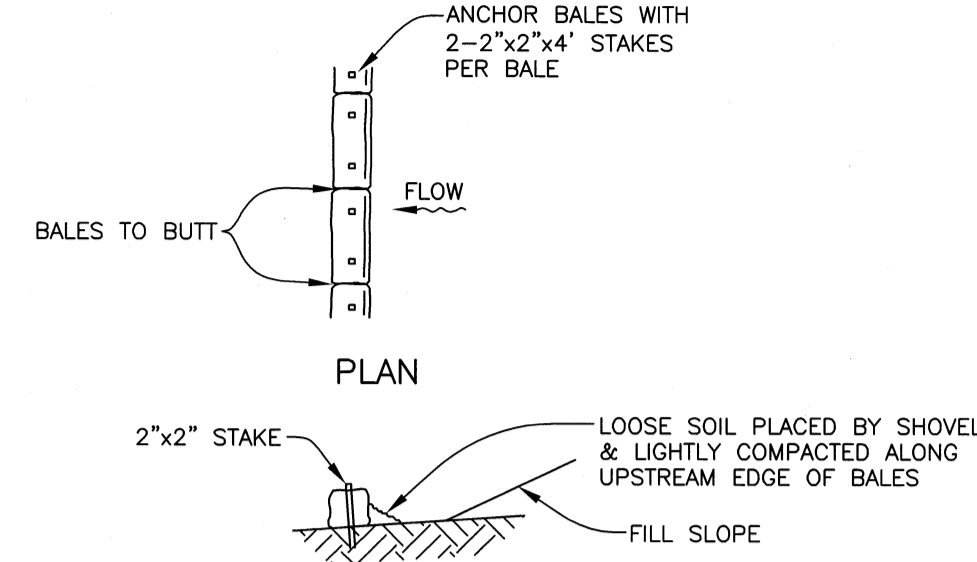
**LIFT STATION UPGRADES, 2012  
EMERGENCY GENERATORS-GROUP B  
EROSION CONTROL**



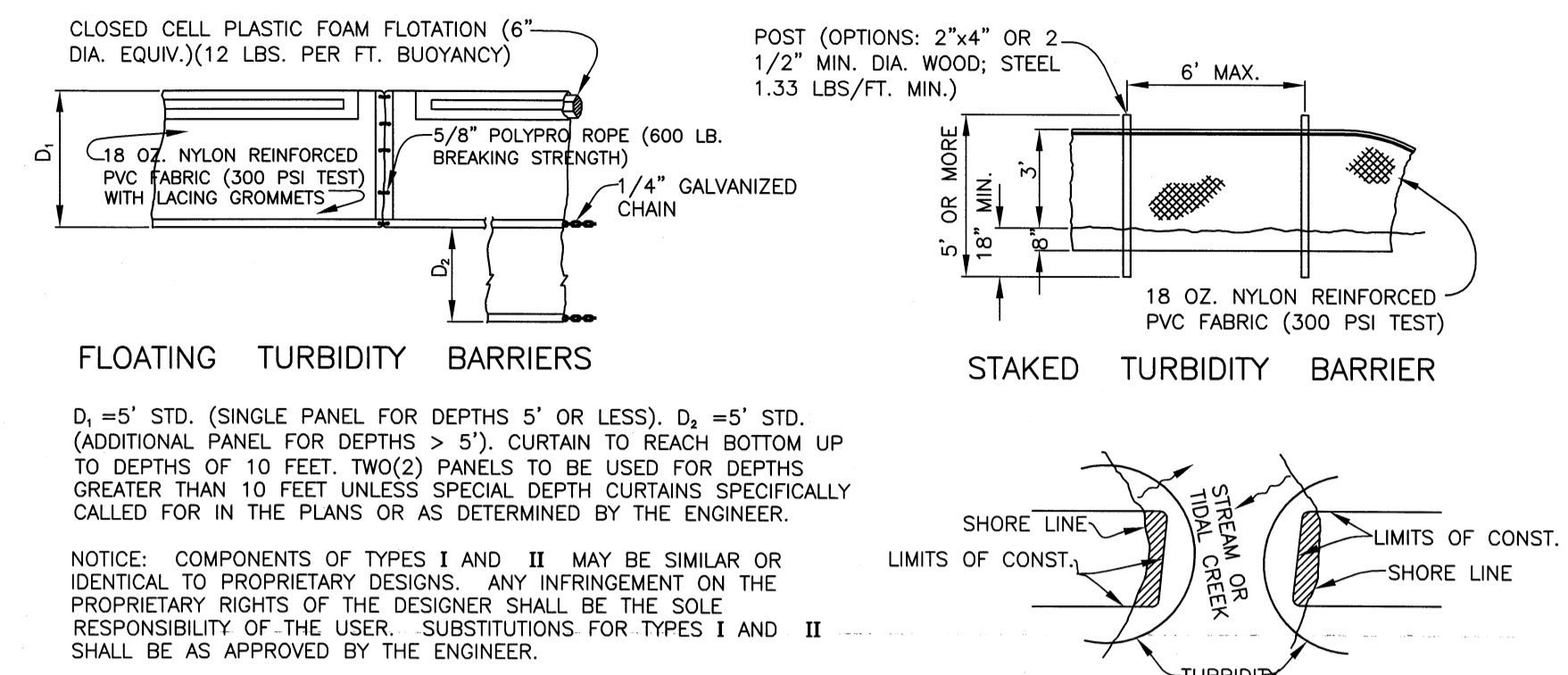
**WETLAND BUFFER**  
FIGURE 1



**TYPICAL SILT FENCE**  
FIGURE 2



**TYPICAL BALE SILT BARRIER**  
FIGURE 3

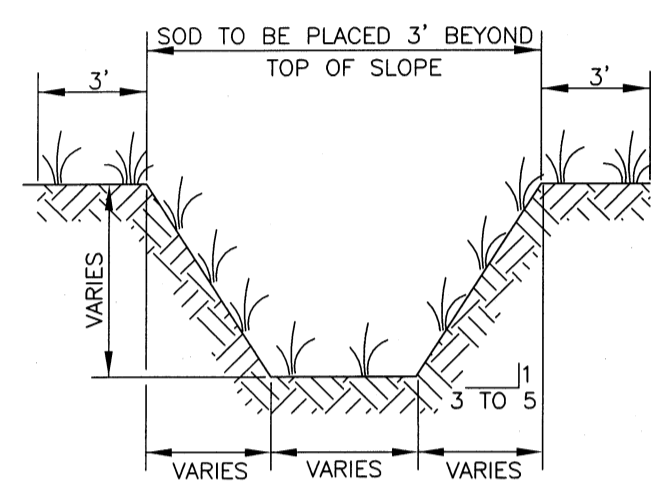


**FLOATING TURBIDITY BARRIERS**

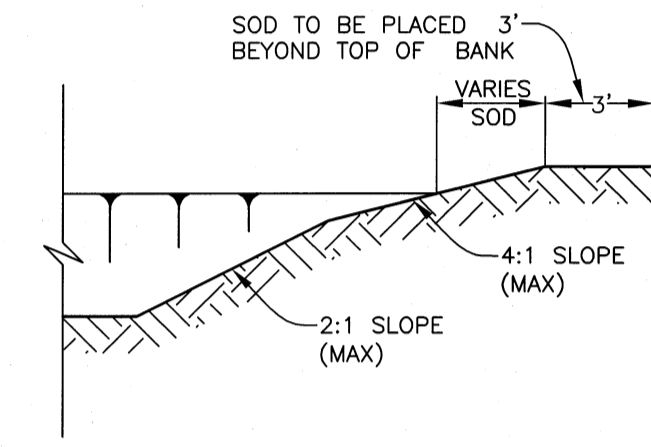
**STAKED TURBIDITY BARRIER**

**TURBIDITY BARRIERS**  
FIGURE 4

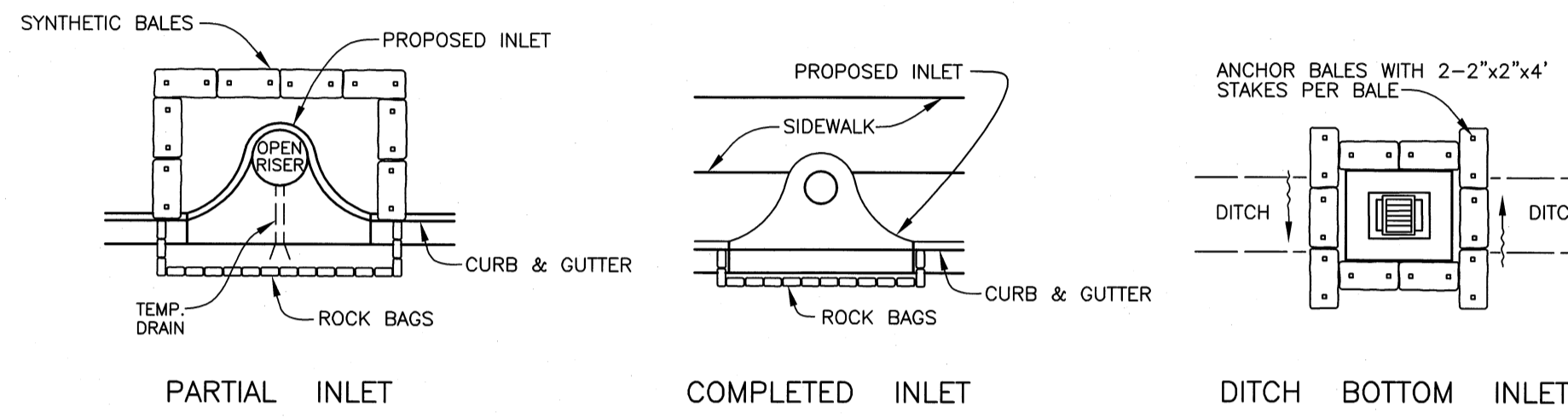
D<sub>1</sub> = 5' STD. (SINGLE PANEL FOR DEPTHS 5' OR LESS), D<sub>2</sub> = 5' STD. (ADDITIONAL PANEL FOR DEPTHS > 5'). CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET. TWO(2) PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALLED FOR IN THE PLANS OR AS DETERMINED BY THE ENGINEER.  
NOTICE: COMPONENTS OF TYPES I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.



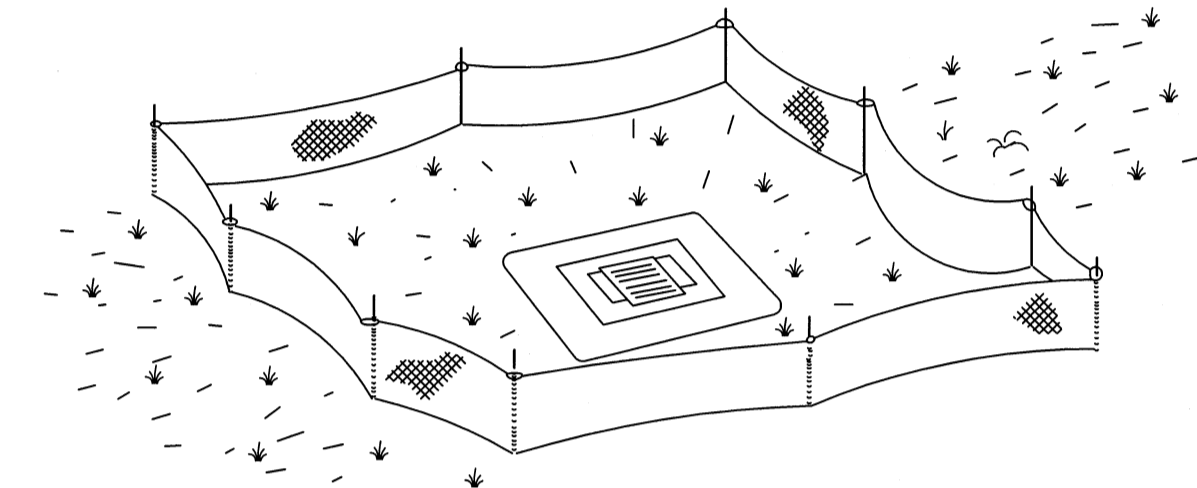
**TYPICAL SWALE SECTION**  
FIGURE 5



**TYPICAL RETENTION/DETENTION POND SECTION**  
FIGURE 6

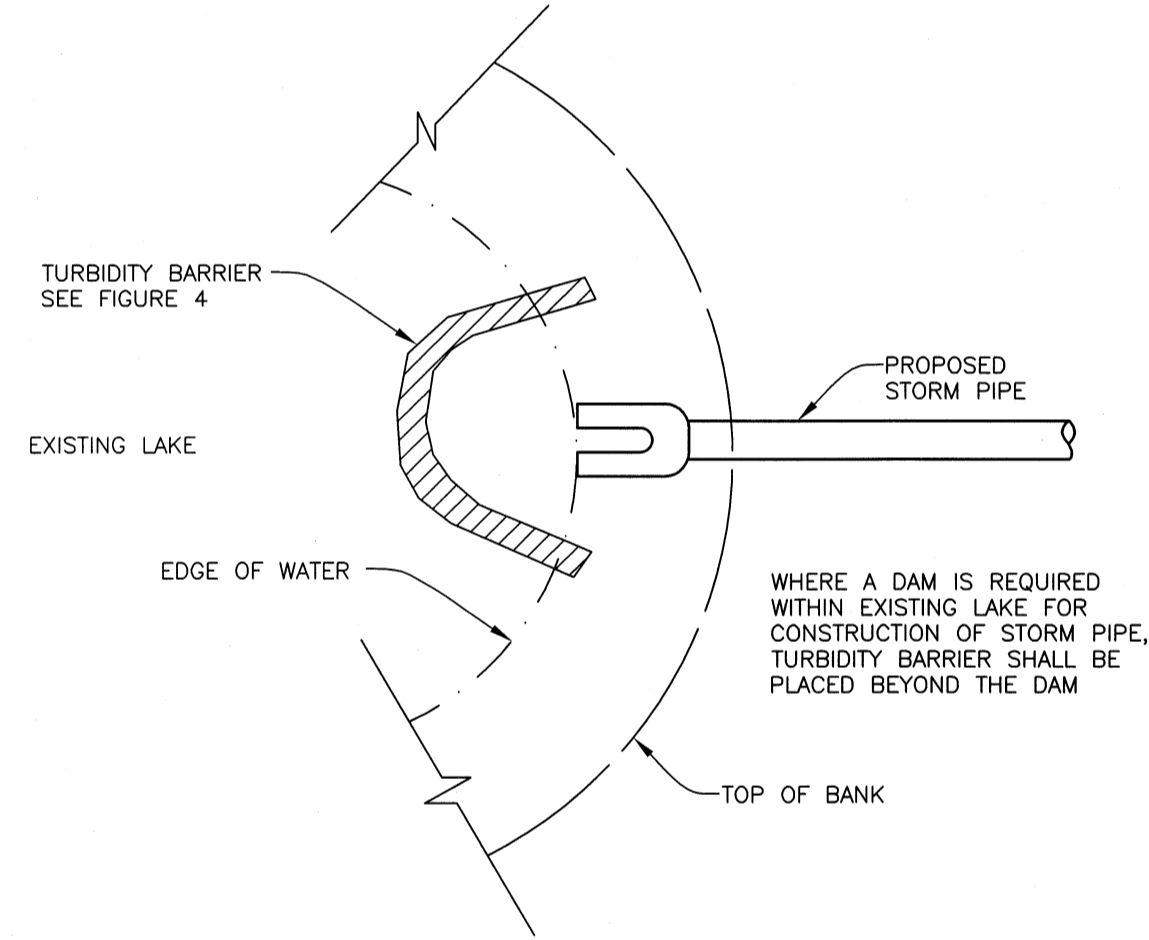


**SYNTHETIC BALE PROTECTION AROUND INLETS OR SIMILAR STRUCTURES**  
FIGURE 7

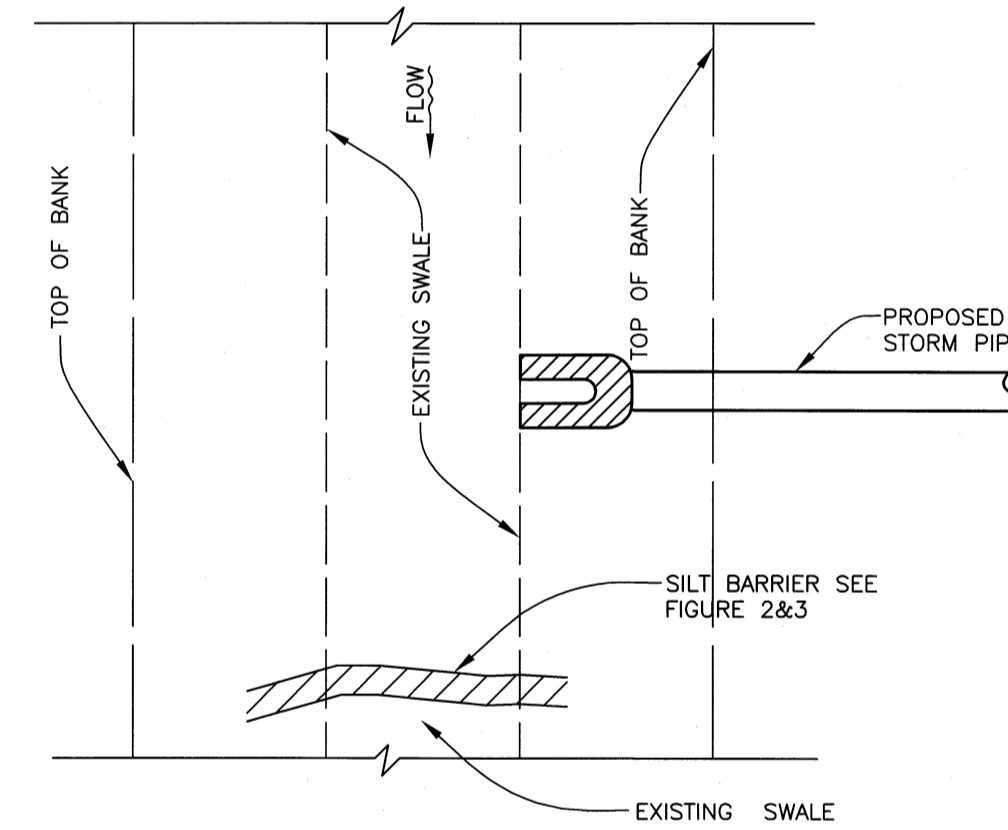


**TYPE III SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS**

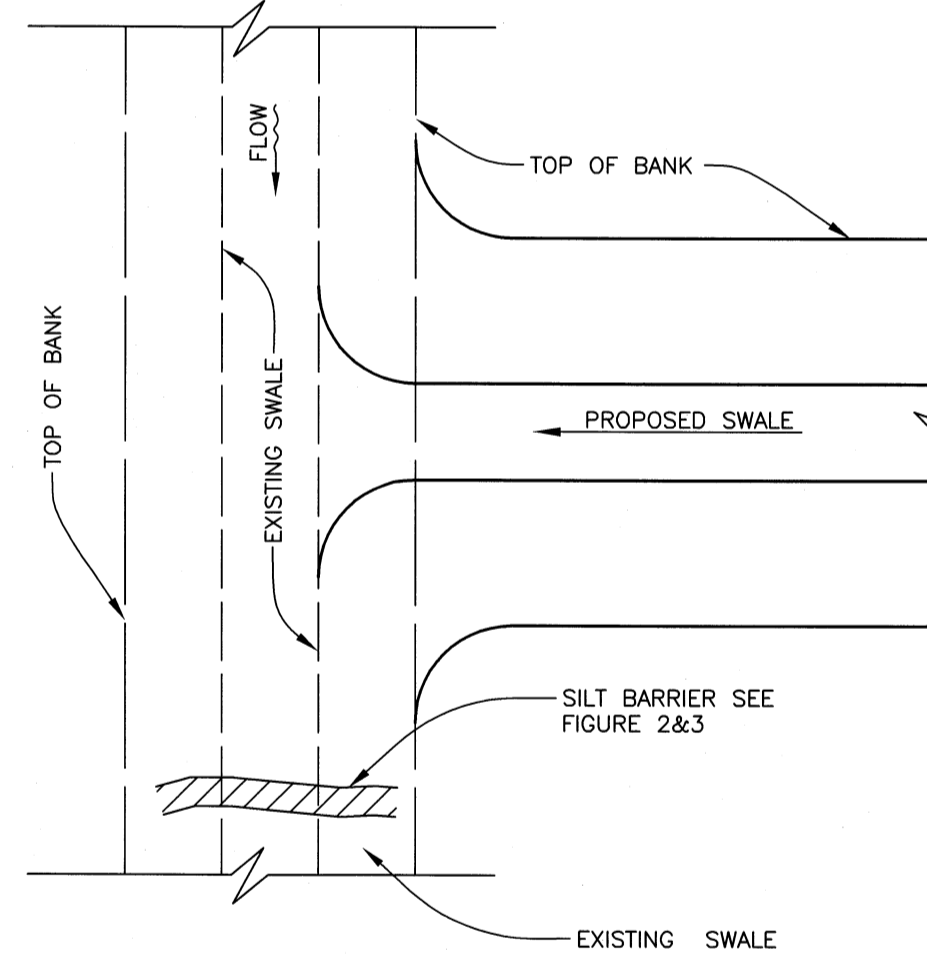
**STAKED SILT BARRIER OR SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS**  
FIGURE 8



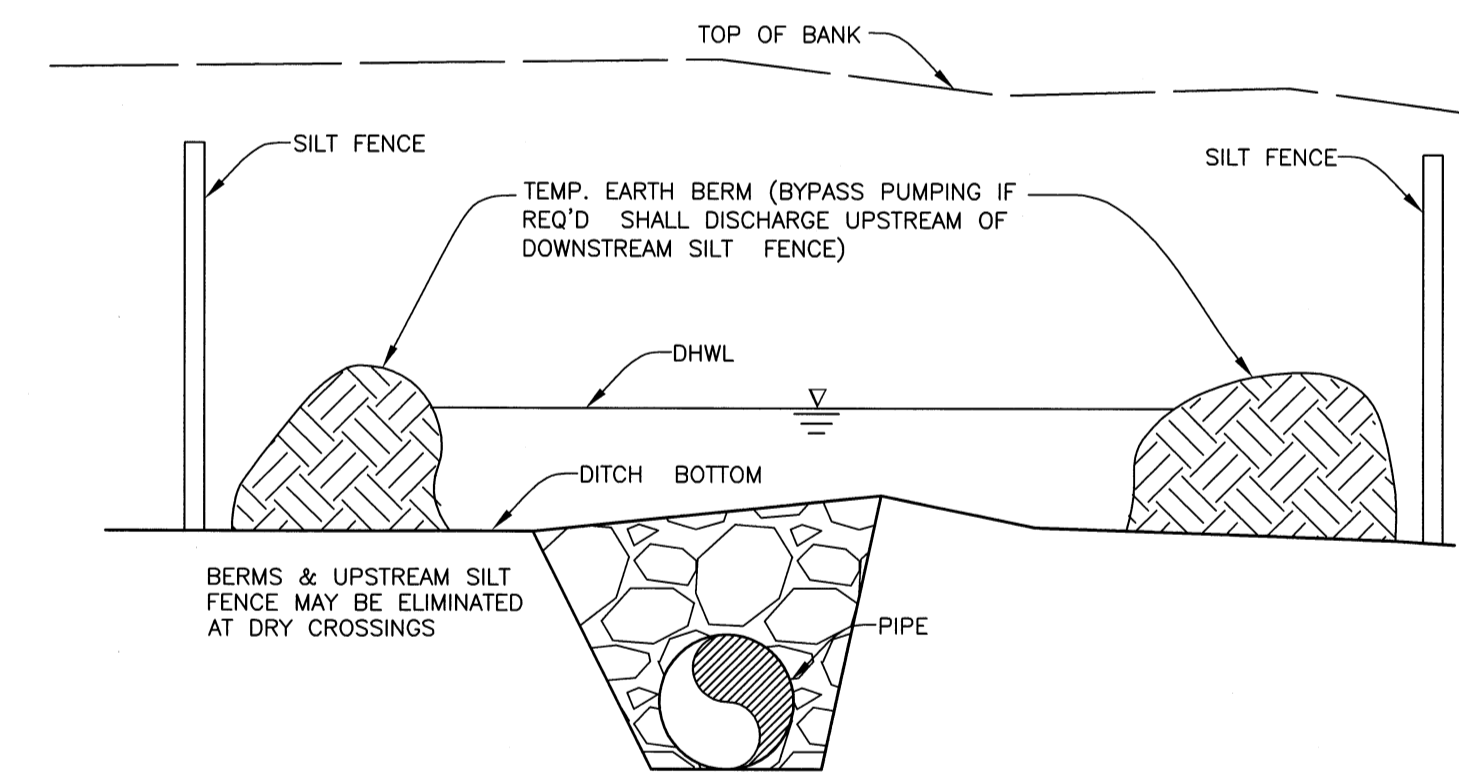
**TURBIDITY BARRIER AT CONNECTION OF STORM PIPE TO EXISTING LAKE**  
FIGURE 9



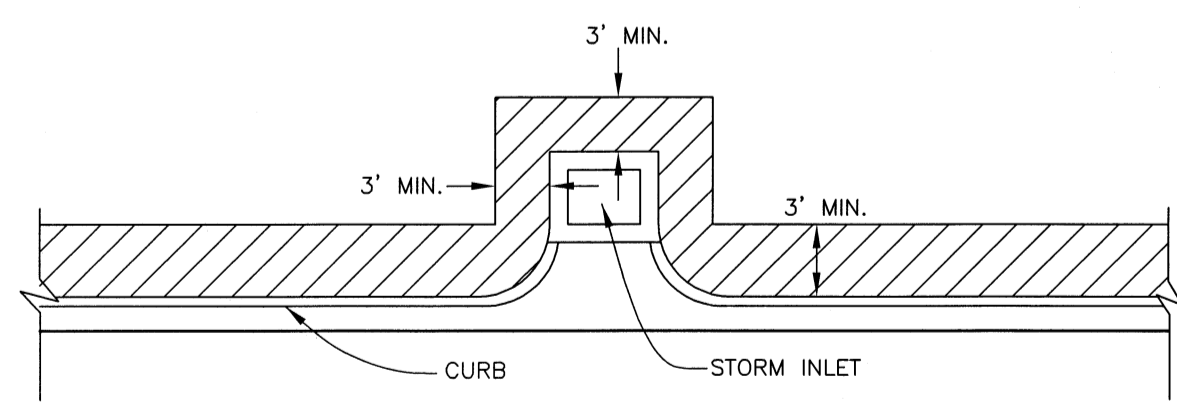
**SILT BARRIER AT CONNECTION OF STORM PIPE TO EXISTING SWALE**  
FIGURE 10



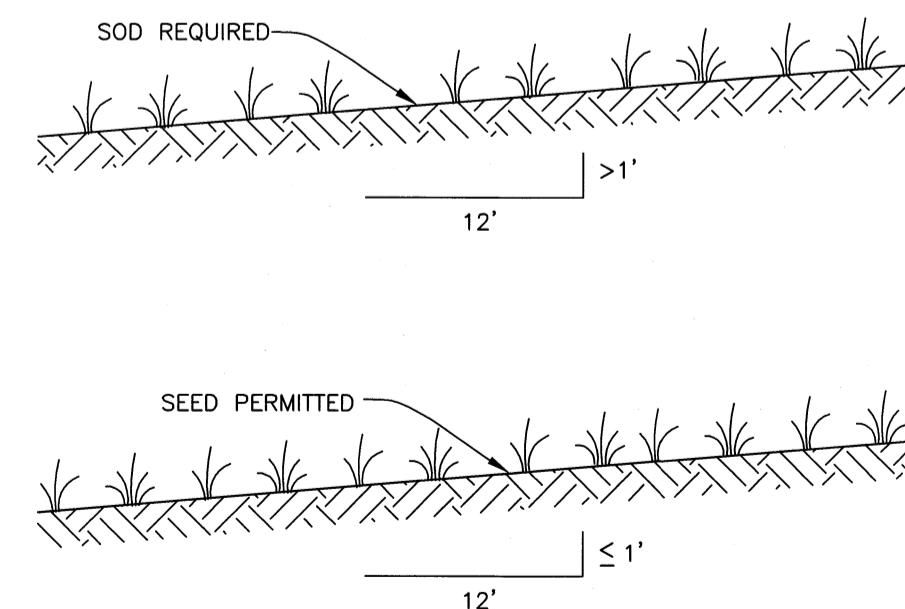
**SILT BARRIER AT CONNECTION OF SWALE TO EXISTING SWALE**  
FIGURE 11



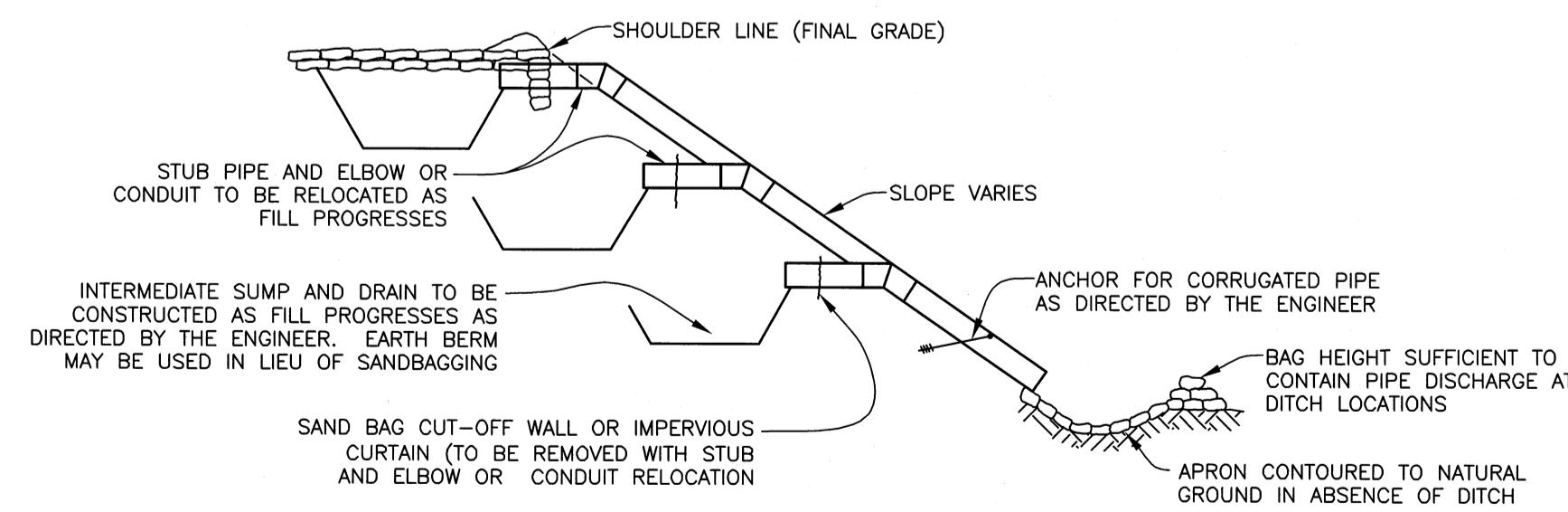
**UNDERGROUND PIPE CROSSING**  
FIGURE 12



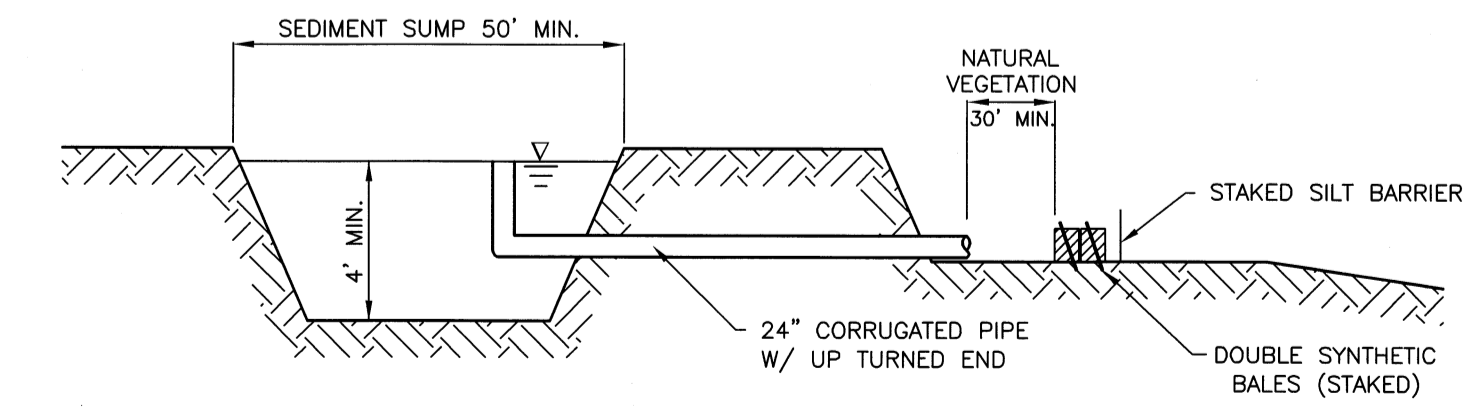
**SOD ALONG CURB AND AROUND INLET**  
FIGURE 14



**GRASS SLOPES**  
FIGURE 13



**SECTION AA  
TEMPORARY SLOPE DRAIN**  
FIGURE 15



**SEDIMENT SUMP SECTION**  
FIGURE 16

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

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT #	SEE COVER
SURVEY #	-
SEC./TWN./RGE	AS SHOWN
SCALE	NTS
SURVEYED	BY DATE
DESIGNED	JS/BR/CB 3/30/2011
DRAWN	BR/CB 3/31/2011
CHECKED	JS -

JAMES STOCKWELL, P.E.  
FLORIDA LICENSE # 67198  
Professional Engineer  
State of Florida

COPYRIGHT 2010, MANATEE COUNTY GOVERNMENT, S:\P\O\Engineering\Shore\Uplift\Eng Design\Pros\LS Upgrade\Edema\2012\Emas\GENERAL\CONSTRUCTION\2012 GROUP B Dam Erosion Control\_9/28/2011 9:21 AM Cora Boyer, I-1, D-26th (24"x36")