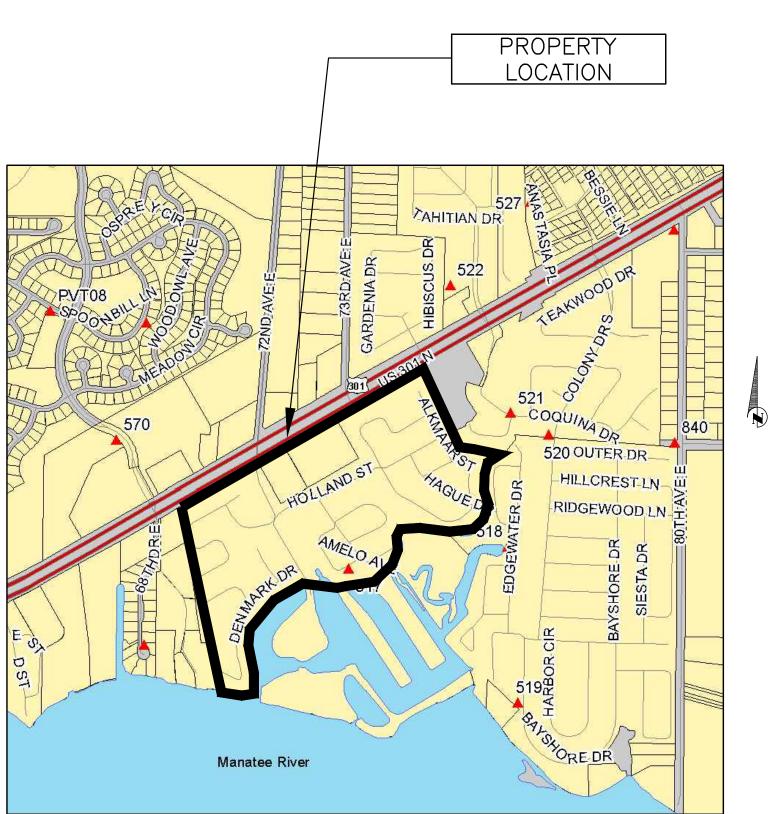


COLONY COVE 1 - PHASE 2 SANITARY SEWER (GRAVITY) REHABILITATION 413-6005680

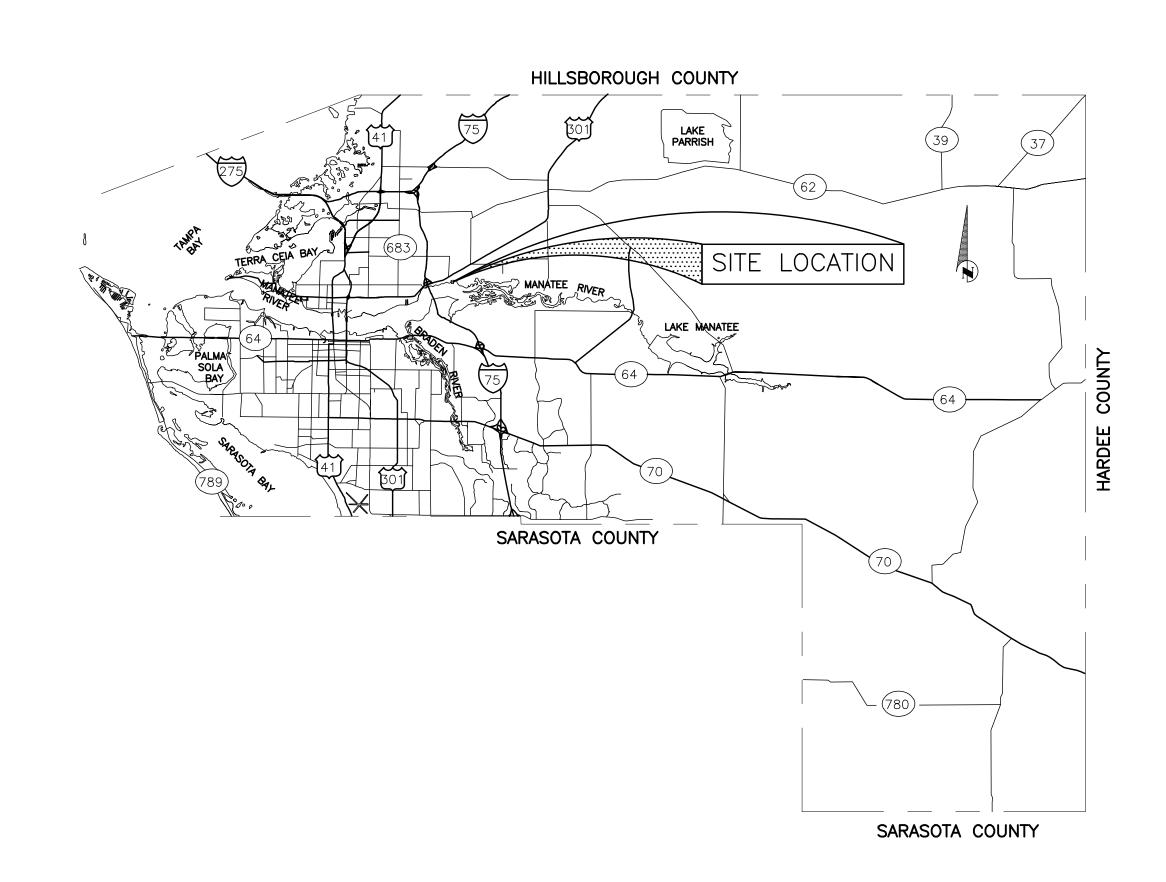


VICINITY MAP 101 AMSTERDAM AVE ELLENTON, FL 34222

PROJECT DESCRIPTION

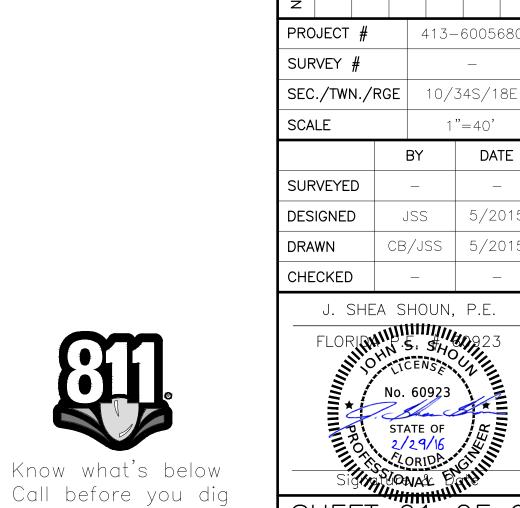
REHABILITATION OF THE EXISTING GRAVITY SEWER MAINS BY INSTALLING APPROXIMATELY 9,380 LF OF 8" HDPE (DR-17) PIPE TO REPLACE THE EXISTING VITRIFIED CLAY PIPE (VCP) UTILIZING PIPE BURSTING INSTALLATION METHODS. ALL EXISTING BRICK AND/OR CONCRETE MANHOLES SHALL BE REHABILITATED AND LINED, APPROXIMATELY 33 MANHOLES. ALL SERVICES SHALL BE REINSTATED USING INSERTA—TEE (OR EQUIVALENT) AND SHALL BE RELOCATED OUT FROM UNDER THE MOBILE HOMES AS NECESSARY.

JUNE 2015



100% PLANS

NO.	INDEX OF SHEETS
1.	COVER SHEET
2.	GENERAL NOTES & LEGEND
37.	PLAN SHEETS
8.	EROSION CONTROL
9.	DETAILS & PROJECT NOTES





413-6005680

1"=40'

JSS

CB/JSS 5/2015

GENERAL

- ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE PROJECT MANAGEMENT DIVISION. THE PROJECT MANAGER IS: BRIAN BATES, P.E. AND CAN BE REACHED AT (941) 708-7450 EXT. 7329
- 2. SITE VISITS ARE MANDATORY FOR ALL BIDDERS. THESE SITE VISITS CAN BE ARRANGED THROUGH THE PROJECT MANAGER.
- 3. ALL CONSTRUCTION ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF MANATEE COUNTY UTILITY AND TRANSPORTATION STANDARDS AND/OR FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" UNLESS OTHERWISE INDICATED ON THE PLANS.
- 4. 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 32. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, WATER AND SEWER LINES, STORM DRAINS, UTILITIES, THAT ARE NOT PROVIDED IN THE BID DOCUMENTS, AT NO ADDITIONAL COST TO THE OWNER.
- 5. 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.
- B. 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.

- 9. 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.
- 10. THE CONTRACTOR SHALL USE SHEET PILING, SHEETING, BRACING, ETC., AS REQUIRED IN ALL EXCAVATION AREAS AND CONFORM TO ALL OSHA REQUIREMENTS.
- 11. THE CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND UTILITIES, POWER LINES, ETC.
- 12. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THIS EXCLUSION DOES NOT ALLEVIATE THE CONTRACTOR FOR PROVIDING A CONTINUOUS SAFE WORKSPACE.

ENVIRONMENTAL

- 13. 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.
- 14. 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.
- 15. 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.
- I6. 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.
- 17. 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.
- I8. 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.
- 19. 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.
- 20. 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
- 21. ALL EROSION AND POLLUTION CONTROL DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER EACH RAINFALL AND SHALL BE CLEANED OUT AND/OR REPAIRED AS REQUIRED.
- 22. 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.
- 23. FOR MORE INFORMATION, SEE THE EROSION CONTROL DETAIL SHEET INCLUDED IN THE PLANS.

<u>RIGHT-OF-WAY</u>

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

<u>UTILITIES</u>

- 31. 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.
- 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.
- 33. 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.
- 34. 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.
- 35. 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

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

<u>CONSTRUCTION</u>

- 43. 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
- 44. 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.
- 45. THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS REQUIRED.
- 46. INGRESS AND EGRESS TO ALL THE PROPERTIES IN THE CONSTRUCTION AREA SHALL BE MAINTAINED AT ALL TIMES.
- 47. PRIOR APPROVAL WILL BE REQUIRED FOR REMOVAL OF ANY TREE WITHIN THE CONSTRUCTION AREA.
- 48. THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP ALL EXCAVATIONS DRY. DEWATERING IS REQUIRED TO 18" BELOW TRENCH BOTTOM.
- 49. 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.
- 50. ALL PIPE SHALL BE COLOR CODED TO CONFORM TO MANATEE COUNTY STANDARDS.
- 51. ALL PIPE AND FITTINGS SHALL BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER AND ALL PIPE JOINTS SHALL BE RESTRAINED WHERE REQUIRED.
- 52. 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.
- 53. 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.
- 54. 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.
- MATERIAL PLACED WITHIN ONE FOOT OF PIPING AND APPURTENANCES SHALL NOT CONTAIN ANY STONES LARGER THAN TWO
- 56. ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES ON COUNTY OWNED AND MAINTAINED UTILITY SYSTEMS.

55. ALL ROCKS OR STONES LARGER THAN SIX INCH DIAMETER SHALL BE REMOVED FROM THE BACKFILL MATERIAL. BACKFILL

- 57. ALL PENETRATION OF EXISTING STRUCTURES SHALL BE BY THE MECHANICAL ROTARY CORE BORING METHOD.
- 58. ALL CONCRETE PENETRATED OR DISTURBED SHALL BE COATED WITH TWO COATS OF EPOXY.
- 59. 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.
- 60. 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.
- 61. 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.
- 62. 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.

- 63. 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.
- 64. FIELD CONDITIONS MAY NECESSITATE MINOR ALIGNMENT AND GRADE DEVIATION OF THE PROPOSED UTILITIES TO AVOID OBSTACLES, AS ORDERED BY THE ENGINEER.
- 65. 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 <u>Strictly</u> enforced. A copy of section 14 will be provided upon request.
- 66. THE RECORD DRAWINGS SHALL USE A VERTICAL DATUM OF NAVD 1988 AND BASED ON TWO BENCHMARKS PUBLISHED BY THE COUNTY, STATE OR FEDERAL GOVERNMENT. A MINIMUM OF TWO REASONABLY PERMANENT SITE BENCHMARKS WITH COMPANY IDENTIFICATION SHALL BE SET AT OR IMMEDIATELY ADJACENT TO THE PROJECT. THE SURVEY NOTES SHALL INCLUDE THE RELATIONSHIP TO NGVD 1929 AND THE METHOD OF CONVERSION. UNLESS OTHERWISE DIRECTED, THE PROJECT SHALL BE IN STATE PLANE COORDINATES — NAD 1983 (1990 ADJUSTMENT OR LATER) FLORIDA WEST ZONE UTILIZING OR REFERENCING TWO GEODETIC CONTROL POINTS PUBLISHED WITH THE NATIONAL SPATIAL REFERENCE SYSTEM MANAGED BY THE NATIONAL GEODETIC SURVEY

EMERGENCY CONTACTS

FLORIDA POWER & LIGHT

1253 12TH AVENUE EAST

EMERGENCY: 1-800-4-OUTAGE

SOUTHWEST FLORIDA WATER

SARASOTA SERVICE OFFICE

MANAGEMENT DISTRICT

DARYL R. FLATT, P.E.

6750 FRUITVILLE ROAD

SARASOTA, FL. 34240

FAX: (941) 373-7660

(941) 377-3722

BENCH MARK

IRON PIPE

IRON ROD

NAIL & DISK

ELEVATION

LOT NO.

GUY WIRE

9 SIGN

LIGHT POLE

MAIL BOX

→ REFLECTOR

SPRINKLER

© GAS MARKER

FIRE HYDRANT

₩ WATER VALVE

 ☐ WATER METER

BLOW OFF VALVE

A AIR RELEASE VALVE

FLOW DIRECTION

GRATE INLET

-O- BACKFLOW PREVENTER

PARCEL ID NO.

PARCEL ID NO.

△ HUB

1234

1234

CONCRETE MONUMENT

PALMETTO, FL 34221

FAX: (941) 723-4444

(941) 723-4430

GREG COKER

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

Greg_Coker@fpl.com TECO/PEOPLES GAS CO. DAN SHANAHAN HARRY MESSICK 8261 VICO COURT 410 6th AVENUE EAST SARASOTA, FL. 34240 BRADENTON, FL. 34208 (941) 342-4030 FAX: (941) 342-4011 EMERGENCY: 1-877-832-6911 FAX: (941) 750-9364

VERIZON FLORIDA INC. JOHN PLOTT 1701 RINGLING BLVD. SARASOTA, FL. 34236 (941) 906-6707 FAX: (941) 906-6706 John.Plott@verizon.com FLORIDA GAS TRANSMISSION CHAD HARRELL 7804 ANDERSON RD. TAMPA FL 33634 PHONE: (813) 466-3327 E-mail: chad.harrell@sug.com

DEPARTMENT OF ENVIRONMENTAL PROTECTION MANATEE COUNTY HEALTH DEPT. STEPHANIE BARIOS 13051 N. TELECOM PKWY TEMPLE TERRACE, FL 33637 PHONE: (813) 632-7600, EXT. BRADENTON, FL 34203 (941) 748-0747 EXT. 1355 408 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

> > LEGEND

BUSH

TREE

EDGE OF VEGETATION

——— CHAIN LINK FENCE

— x — x — BARBED WIRE FENCE

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

----- RW ------ RECLAIMED WATER

------OCATV------- OVERHEAD_CABLE_TV

----- OVERHEAD VERIZON

----- BVER ------ BURIED VERIZON

----- BU ----- BURIED_UTILITY

----- TOP OF BANK

----- PROPERTY LINE

----- VERIZON

S SANITARY SEWER MANHOLE + + + + + RAIL ROAD TRACKS

O SANITARY SEWER CLEAN OUT ---- EDGE OF CONCRETE

SB# SOIL BORING LOCATION — EDGE OF ROAD

TEL (TEL) TELEPHONE SERVICE BOX --- TOE OF SLOPE

----- GAS LINE

OAK TREE

PALM TREE

PINE TREE

EXISTING

SUNSHINE STATE ONE CALL OF FLORIDA 1-(800) 432-4770

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

County

FLORIDA

PEACE RIVER ELECTRIC COOPERATIVE. INC. WACHULA, FL 33873 kendell.coker@preco.coop

MANATEE COUNTY PUBLIC WORKS DEPT./TRAFFIC ENGINEERING/ ATMS 2101 47TH TERRACE EAST MICHAEL O'REILLY. P.E. (941) 749-3500 EXT. 7859 FAX: (941) 749-3571 michael.oreilly@mymanatee.org

P.O. BOX 1310

KENDELL COKER

(863) 767-4660

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GE

PROJECT # 413-6005680 SURVEY #

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

ABBREVIATIONS

R/W RIGHT OF WAY

ASPHALT

DRIVEWAY

BOC BACK OF CURB

SIDEWALK

PROPOSED

EDGE OF PAVEMENT

CONC CONCRETE

PROPOSED PROJECT NOTES JOB SPECIFIC (EXAMPLE):

DOUBLE SERVICE

STA. 40+60, 17' LT. 1-6" GATE VALVE 1-6" FITTING

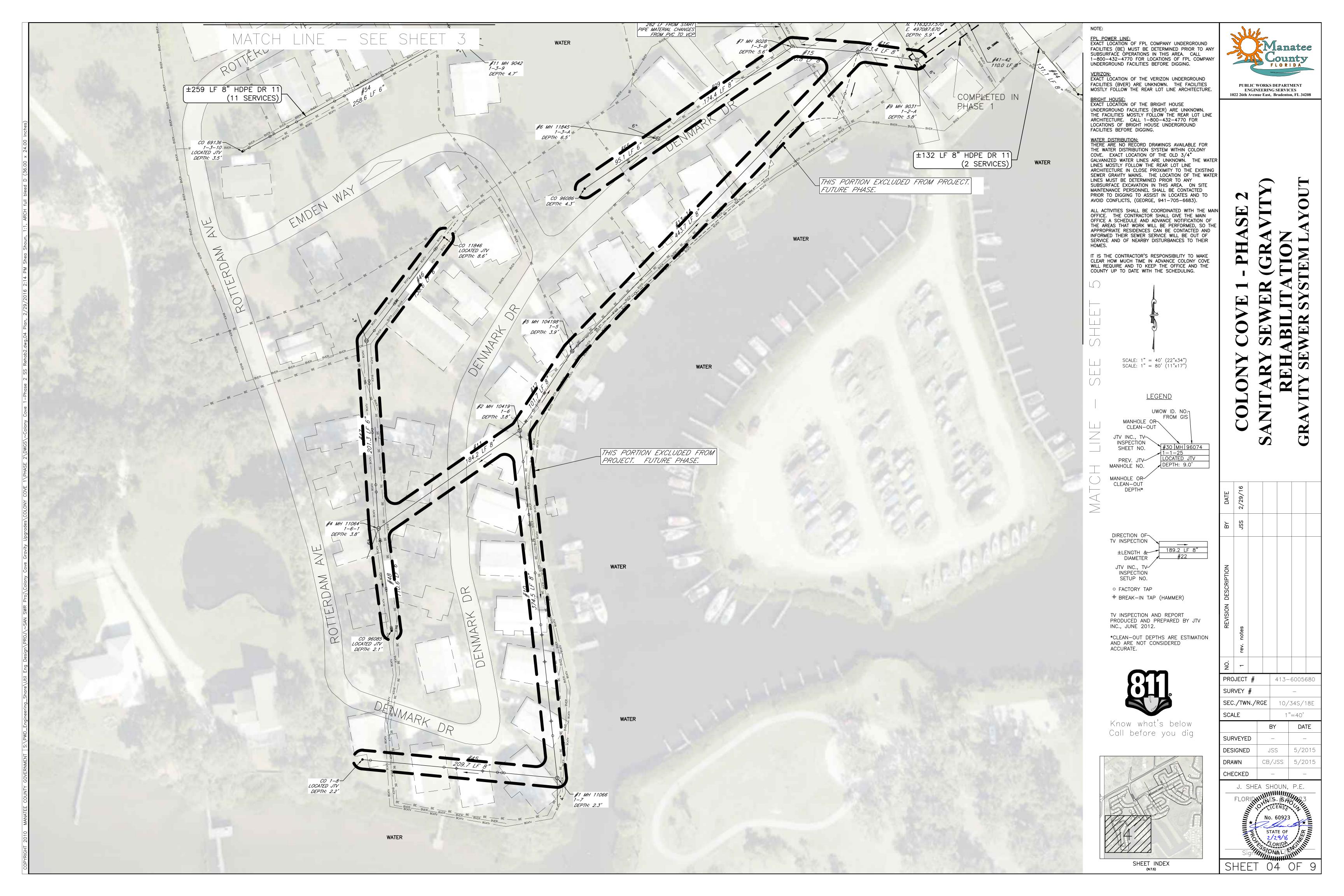
(TYPICAL)

WATER LINE CALL-OUT

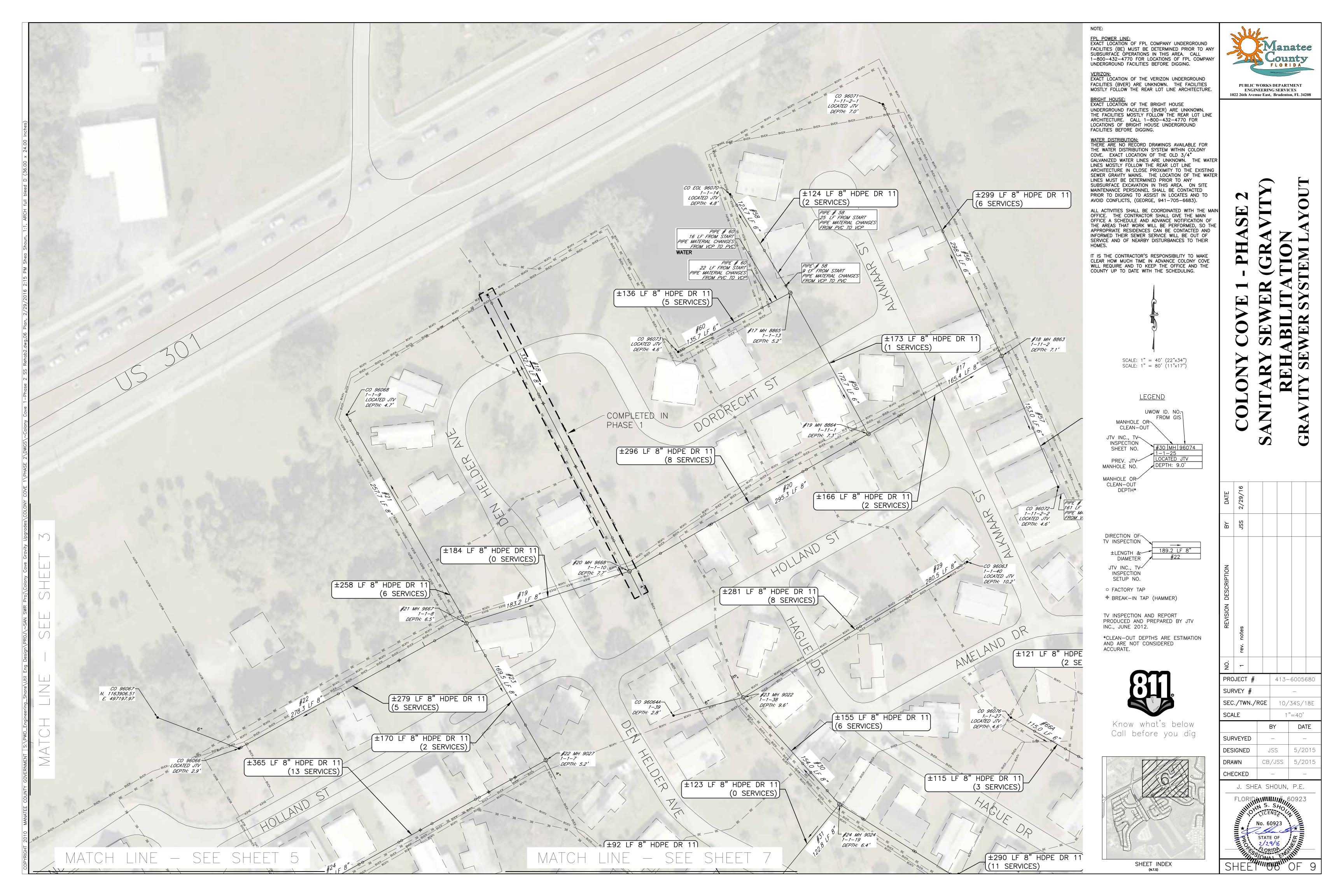
SEC./TWN./RGE 10/34S/18E SCALE 1"=40 BY DATE **SURVEYED** DESIGNED 5/2015 JSS DRAWN CB/JSS | 5/2015 CHECKED J. SHEA SHOUN, P.E.

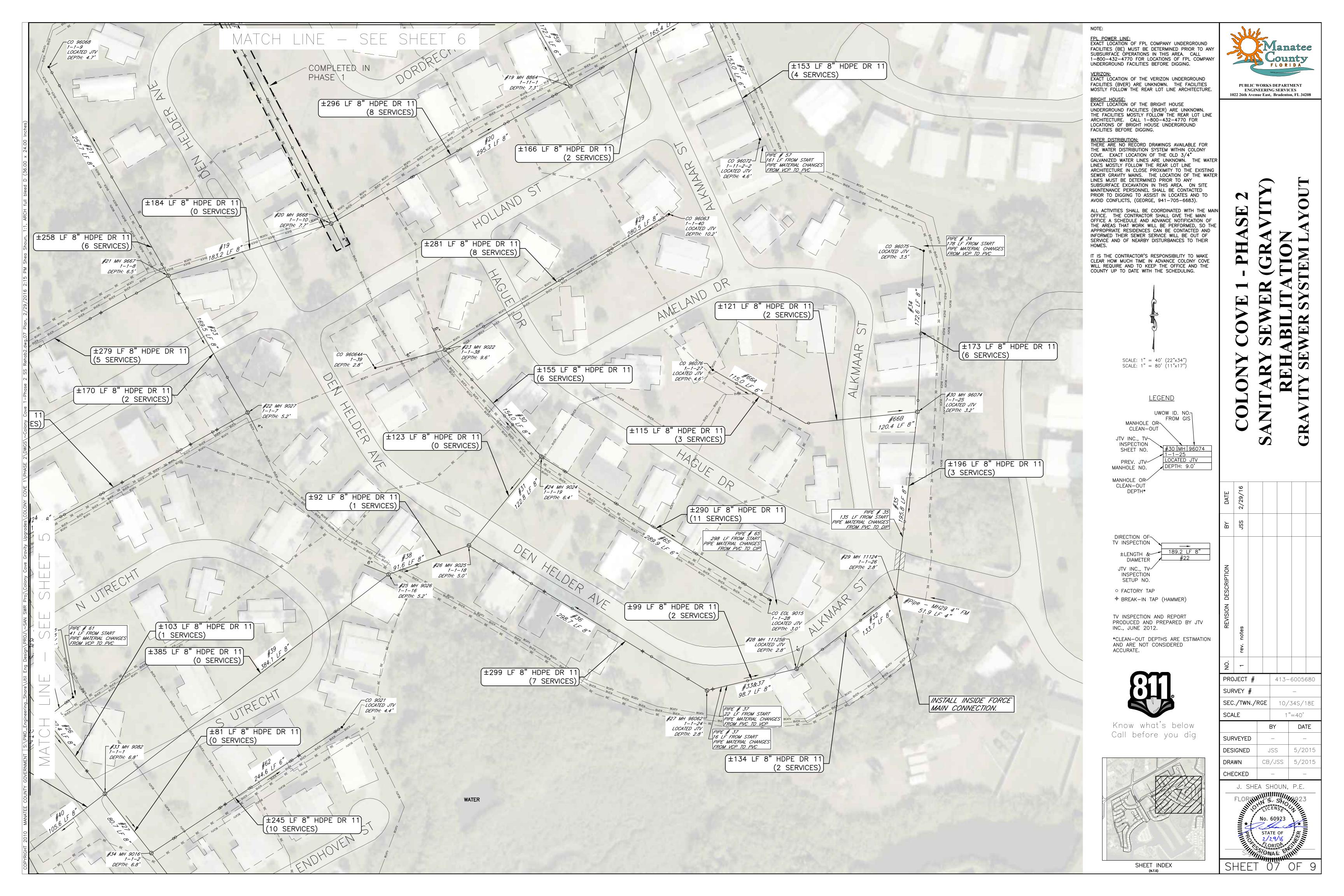
STATE OF

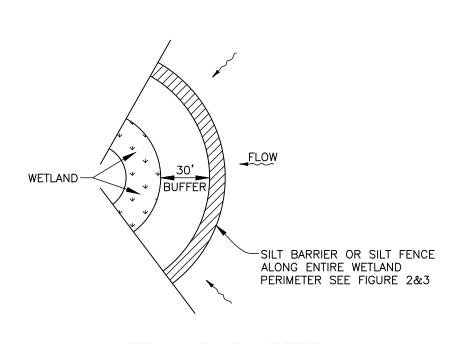


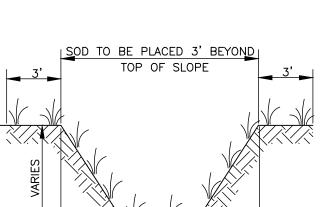




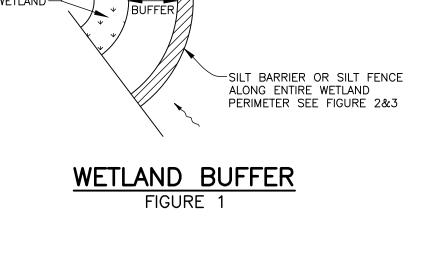


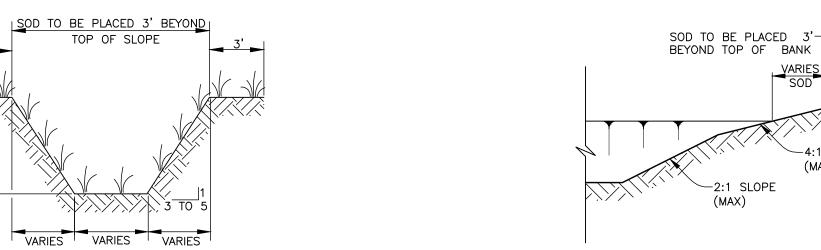


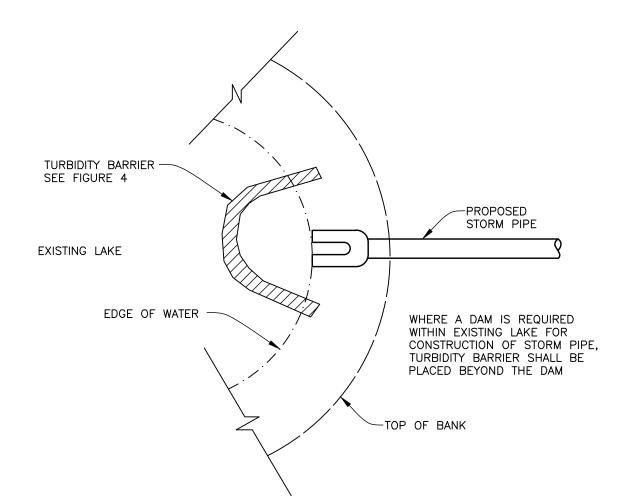




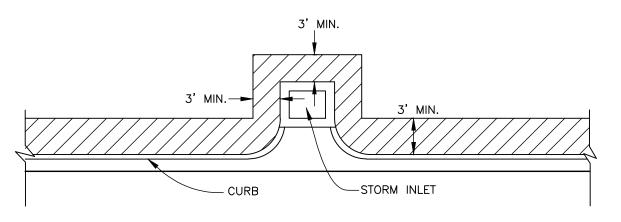
TYPICAL SWALE SECTION





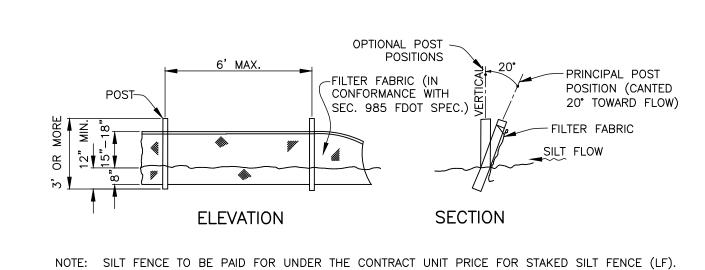


TURBIDITY BARRIER AT CONNECTION OF STORM PIPE TO EXISTING LAKE FIGURE 9

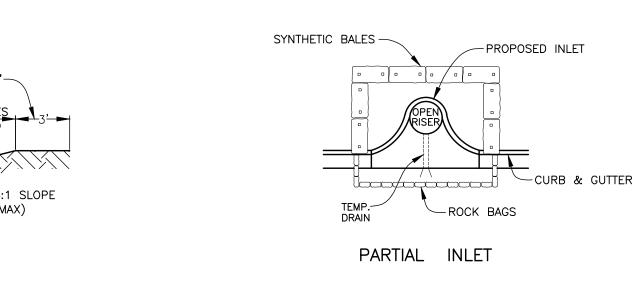


SOD ALONG CURB AND AROUND INLET FIGURE 14

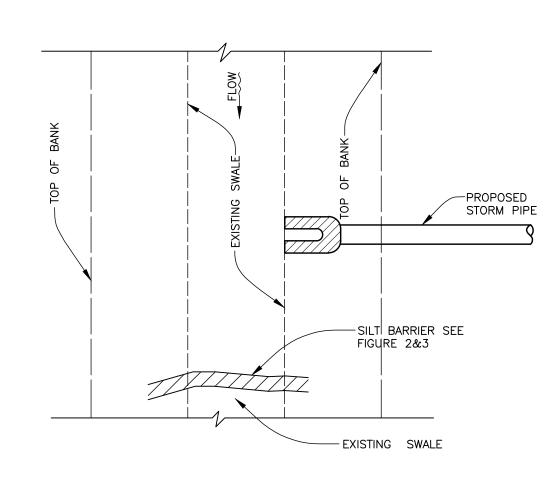
REFERENCE THE FDOT DESIGN STANDARDS LATEST EDITION FOR ALL TEMPORARY EROSION CONTROL MEASURES.



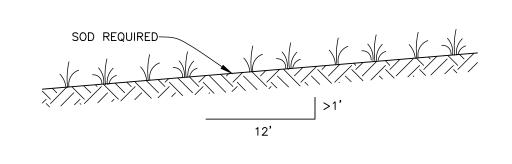
TYPICAL SILT FENCE FIGURE 2

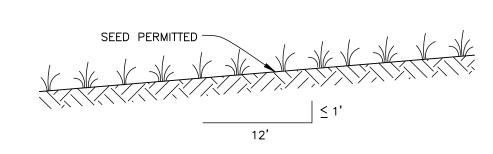


TYPICAL RETENTION/DETENTION POND SECTION FIGURE 6

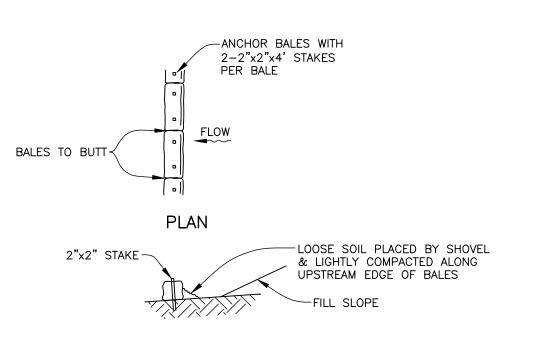


SILT BARRIER AT CONNECTION OF STORM PIPE TO EXISTING SWALE FIGURE 10

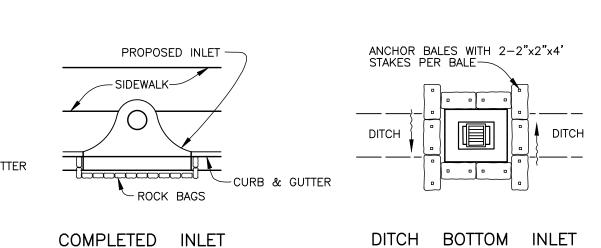




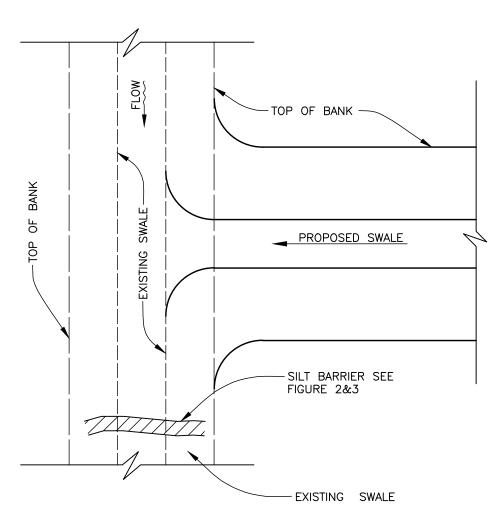
GRASS SLOPES FIGURE 13



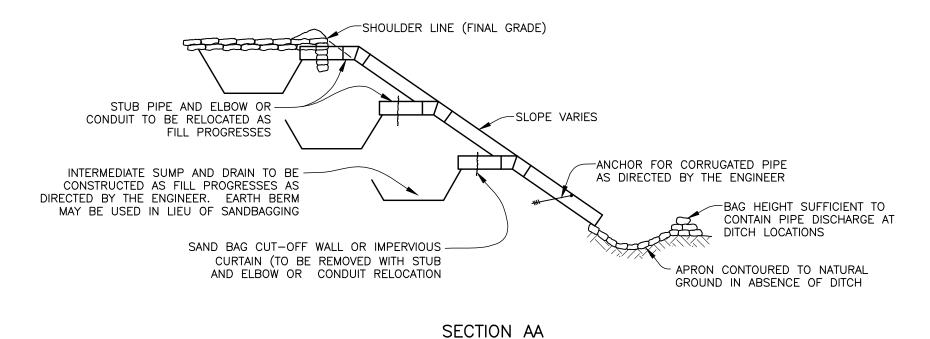
TYPICAL BALE SILT BARRIER FIGURE 3



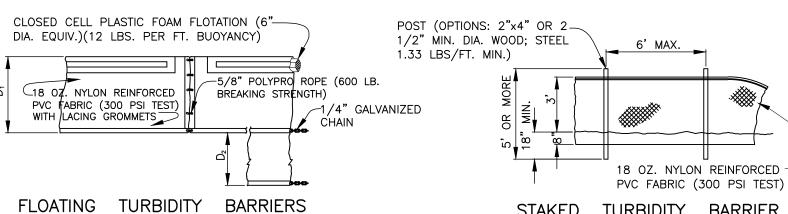
SYNTHETIC BALE PROTECTION AROUND INLETS OR SIMILAR STRUCTURES FIGURE 7



SILT BARRIER AT CONNECTION OF SWALE TO EXISTING SWALE FIGURE 11

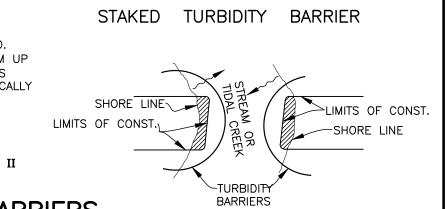


TEMPORARY SLOPE DRAIN FIGURE 15

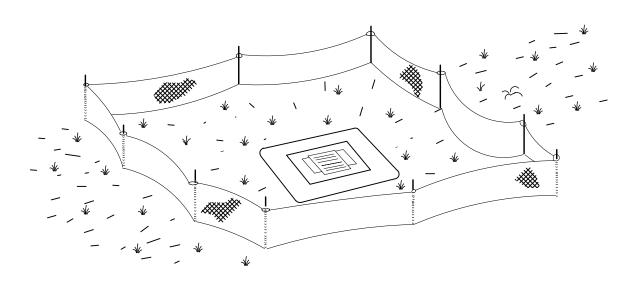


 $D_1 = 5$ ' STD. (SINGLE PANEL FOR DEPTHS 5' OR LESS). $D_2 = 5$ ' STD. (ADDITIONAL PANEL FOR DEPTHS > 5'). CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET. TWO(2) PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALLED FOR IN THE PLANS OR AS DETERMINED BY THE ENGINEER.

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.

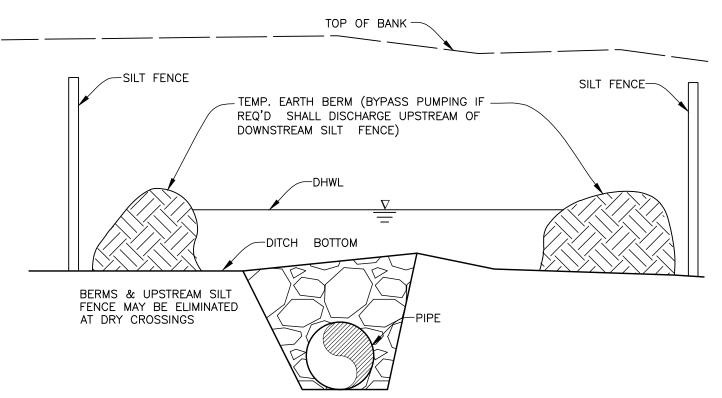


TURBIDITY BARRIERS FIGURE 4

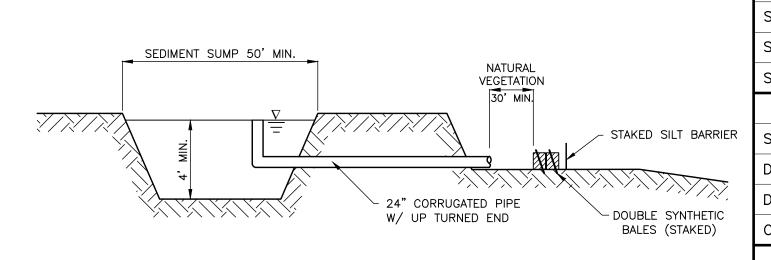


TYPE III SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS

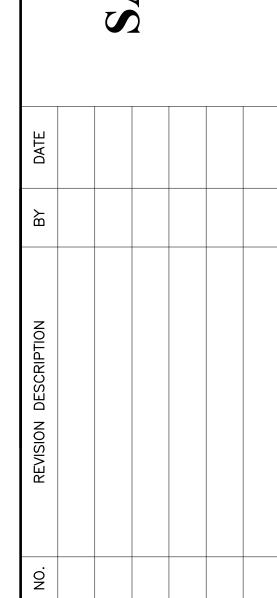
STAKED SILT BARRIER OR SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS FIGURE 8



UNDERGROUND PIPE CROSSING FIGURE 12



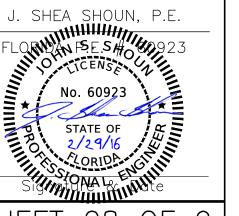
SEDIMENT SUMP SECTION FIGURE 16



PUBLIC WORKS DEPARTMENT

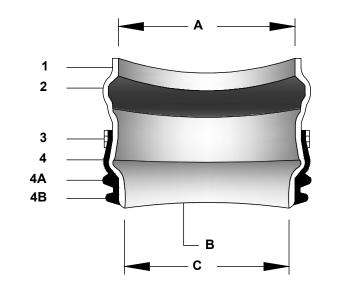
ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208

ROJECT #		413-6005680		
JRVEY #		_		
C./TWN./	RGE	10/34S/18E		
CALE		1"=40'		
		BY	DA	TE
JRVEYED		_		
SIGNED	JSS		5/2	015
RAWN	CB/JSS		5/2	015
HECKED				



FATBOY, SDR 26, SDR 35 GASKETED BELL GRAVITY APPLICATIONS

- A. BELL END ACCEPTS PIPE WITH SDR 26, SDR 35 AND ASTM D3034 DR EQUIVALENT O.D. SPECIFICATION IN 4" AND 6" SIZES.
- B. CURVATURE VARIES WITH MAINLINE DIAMETERS.
- C. SPIGOT END SDR 26, PVC SDR 35, ASTM D3034 DIAMETERS: 4" AND 6"



PART NAME
HUB ADAPTOR
RUBBER GASKET
SECURING CLAMP*

RUBBER SLEEVE (AVAILABLE IN NITRILE AND EPDM BY SPECIAL ORDER) UPPER SEGMENT** LOWER SEGMENT***

MATERIALS PVC SDR 26 ASTM D3034 ASTM F477 BAND SS #301 SCREW SS #305 HDUSING SS #301 ASTM F477

* OPTIONAL: #316 STAINLESS STEEL BAND, SCREW AND HOUSING ** DISTANCE BETWEEN 4A AND 4B WILL VARY BY PRODUCT TYPE *** WILL NOT APPEAR ON RUBBER SLEEVES FOR CONCRETE OR CLAY PIPE

INSERTA TEE SIZE 4" (100 mm) 6" (150 mm)

HOLE DIAMETER 4 ½" (114 mm) $6\frac{1}{2}$ " (165 mm)

-REMOVEABLE MECHANICAL

SEALING DEVICE PER

-KEEP TEE & DROP

WALL AS POSSIBLE

PIPE AS CLOSE TO

-STAINLESS STEEL

-CUT NEW FLOW

CHANNEL AND FINISH

SMOOTH WITH GROUT

ANCHOR (TYP.)

ASTM C-923

BUILT IN STOP FOLLOWS CONTOUR OF MAINLINE PIPE (PATENT PENDING) CUSTOM MADE TO MATCH THE INTERIOR RADIUS OF THE MAINLINE PIPE OR STRUCTURE

DRAWN BY: KLJ

REV.BY DATE

CLB/KE 11/10

MAY 10, 2011

DATE OF APPROVAL

NOTE: RECOMMENDED METHOD OF CUTTING HOLE IS WITH HOLE SAW FOR PVC AND OTHER PLASTICS, AND DIAMOND BIT FOR CONCRETES, CLAY, FRP AND D.I. (SEE INSTALLATION INSTRUCTIONS. HOLE SAWS ARE AVAILABLE FOR PURCHASE OR RENT.)

WET WELL TOP SLAB)

<u>○ BO</u>○

WET WELL FLOOR

DESIGN CAPACITY PER PUMP, GPM

ORSEPOWER PER PUMP, H.P.

MINIMUM EFFICENCY AT DESIGN CAPACITY %

PUMP MANUFACTURER & MODEL NUMBER

ELECTRICAL SERVICE - VOLTAGE & PHASE

FORCE MAIN - LENGTH, DIAMETER & MATERIAL

FORCE MAIN DISCHARGE ELEV. & HIGHEST ELEV.

TOTAL DYNAMIC HEAD. FEET

SHUT-OFF HEAD, FEET

MAX. SIZE SOLIDS, INCHES

DISCHARGE SIZE, INCHES

PUMP STATION, DROP

PIPE BRACING, &

STILLING WELL DETAILS

 \bigcirc

PUMP DATA AND DESIGN CHARACTERISTIES

STRAP

—DRILL 1/2" HOLES THROUGH

INSTALL 1/2" S.S. BOLT

ACROSS THE CENTER OF

THE STILLING WELL AT THE BOTTOM

STILLING WELL DETAIL

PAGE 160

SIDE OF PIPE. 12 PER

−Ø″ PVC STILLING WELL

-RUBBER STRIP BETWEEN

PIPE CLAMP AND PIPE

-1/2"x2-1/2" S.S.

S.S. ANGLE BRACES (TYP)

∽S.S. ĠŲSSET PLATE

- SEAL PER ASTM C-923,

XP BY A-LOCK OR APPROVED EQUAL

-316 STAINLESS STEEL STRAPS SECURED TO

STRUCTURE WITH 316

STAINLESS FASTNERS

@ 4' INTERVALS (MIN.

MIN. DIMENSION

EXTEND DROP PIPE

BELOW LOW LEVEL

1. STILLING WELL FOR LEVEL TRANSDUCER REQUIRED FOR RE-PUMP

2. REFER TO STANDARD DETAILS US-17, US-18 & US-19 FOR

MAY 10, 2011

DATE OF APPROVAL

EQUAL TO PIPE

ANCHOR BOLTS (TYP.)

-S.S. RIPE CLAMPS-

WELL PIPE BRACING

S.S. 1-5/8" -

PLASTIC COMPOSITE/ - - \-

CHANNEL

FIBERGLASS DROP

EXTERNAL -

DROP PIPE -

CUT PIPE TO

OF FILLET |

FOLLOW ANGLE

NOTES:

CLB/DOM 11/10

STATIONS ONLY.

PUMP STATION DETAILS.

MANATEE COUNTY

PUBLIC WORKS DEPARTMENT

PIPE COUPLER ______

. ⊿ .

INFLUENT DROP PIPE/BOWL

INSERTA TEE | PO BOX 714 CORNELIUS, OR 97113 PH:(503) 357-2110 FAX:(503) 359-5417 SALES@INSERTATEE.COM

FATBOY, SDR 26, SDR 35 GASKETED BELL GRAVITY APPLICATION SPECIFICATIONS SCALE: STN DATE: 9/24/2012

OUTSIDE WALL

CAST IRON FRAME

TRACER WIRE TEST

PENETRATION TO BE MADE BY MECHANICAL ROTARY CORE BORING -AND SHALL BE BUTTERED WITH NON-SHRINK GROUT TO PROVIDE A SMOOTH SEALING SURFACE GROUT SEAM AND SEAL-TO MATCH LINER SEE NOTE: 5 ---RUB'R NEK, OR -ADEKA P-201, -SEE NOTE: 2 OR EQUAL

NOTES:

- 1. PIPE AND FITTINGS SHALL BE PVC ASTM D-3034 SDR 26. 2. THIS IS AN INTERCEPT MANHOLE AND MUST BE LINED WITH APPROVED
- LINER. APPROVED SPRAY-ON LINERS MAY BE USED FOR EXISTING MANHOLES. REFER TO SECTION 1 OF THE MANATEE COUNTY UTILITY STNDARDS.
- 3. INSIDE DROP MANHOLES ARE REQUIRED WHEN THE VERTICAL DISTANCE BETWEEN THE LOWEST EXISTING MANHOLE INVERT AND THE HIGHEST PIPE INVERT IS 2'-0" OR GREATER.
- 4. ALL HARDWARE AND FASTENERS SHALL BE STAINLESS STEEL. 5. PVC TEE MAY BE SUBSTITUTED WITH A PLASTIC COMPOSITE/FIBERGLASS DROP BOWL AS MANUFACTURED BY RELINER/DURAN.

REV.BY DATE CLB/KE 11/10 MAY 10, 2011 EXISTING MANHOLE	US-

✓ STATION BOX 12"x12"x6" CONC PAD W/4-#3 BARS EA WAY (8-TOTAL) -#10 COPPER WIRE (CONTINUOUS) PENETRATION TO BE MADE BY MECHANICAL ROTARY CORE/ BORING AND SHALL BE BUTTERED WITH NON-SHRINK GROUT TO PROVIDE A SMOOTH SEALING SURFACE -GROUT SEAM AND SEAL-CONNECTION TO MATCH LINER MANHOLE DETAIL FOR FORCE MAIN TRAP DETAIL PLUG — AWWA C-900 -SEE NOTE: -REMOVEABLE RUB'R NEK, OR -MECHANICAL ADEKA P-201, OR SEALING DEVICE EQUAL PER ASTM C-923 KEEP TEE AND DROP PIPE AS CLOSE TO WALL AS POSSIBLE -STAINLESS STEEL ANCHOR (TYP.) CUT NEW FLOW CHANNEL AND TINISH SMOOTH `WTH GROUT NOTES: 1. ALL FITTINGS SHALL BE AWWA C-907. DROP PIPE SHALL BE AWWA C-900 (CLASS 235, DR 18). THIS IS AN INTERCEPT MANHOLE AND MUST BE LINED WITH AN APPROVED LINER. APPROVED SPRAY-ON LINERS MAY BE USED FOR EXISTING MANHOLES. REFER TO SECTION 1 OF THE MANATER COUNTY UTILITY STANDARDS. 3. INSIDE DROP MANHOLES ARE REQUIRED WHEN THE VERTICAL DISTANCE BETWEEN THE LOWEST EXISTING MANHOLE INVERT AND THE HIGHEST PIPE INVERT IS 2'-0" OR GREATER. 4. ALL HARDWARE AND FASTENERS SHALL BE STAINLESS STEEL. 5. TRAP IS REQUIRED IN FORCE MAIN BEFORE ENTERING MANHOLE. MANATEE COUNTY ORCE MAIN RETROFI PUBLIC WORKS DEPARTMENT

FOR INSIDE-DROP

CONNECTION

GENERAL NOTES:

- 1. REHABILITATION OF THE EXISTING 8" VITRIFIED CLAY PIPE (VCP) UTILIZING PIPE BURSTING TECHNOLOGY AND REHABILITATION OF THE EXISTING BRICK MANHOLES PER MANATEE COUNTY UTILITY STANDARDS.
- 2. ALL EXISTING GRAVITY MAINS SHALL BE REPLACED WITH HDPE (DR-17) PIPE. MAJORITY OF EXISTING SYSTEM IS VITRIFIED CLAY PIPE (VCP). CHANGE IN MATERIAL HAS BEEN NOTED, BUT CONTRACTOR SHALL REVIEW THE TV INSPECTION REPORT FOR VERIFICATION.
- 3. SERVICES SHALL BE RE-INSTATED USING INSERTA-TEE OR APPROVED EQUAL. EXISTING SANITARY SEWER SERVICE LATERALS SHALL BE REPLACED FROM THE MAIN TO THE PROPOSED CLEANOUTS. LATERAL PIPE PAST THE CLEANOUTS SHALL ALSO BE REPLACED BACK TO SOUND PIPE, AS
- 4. EXISTING SEWER LATERALS CONNECTED TO THE EXISTING MANHOLES SHALL BE RE-ROUTED TO CONNECT TO THE GRAVITY MAINS. EXCEPTION CAN BE MADE UPON WRITTEN APPROVAL BY
- 5. SANITARY SEWER CLEANOUTS SHALL BE FURNISHED & INSTALLED NO FURTHER THAN 5 FEET FROM CENTERLINE OF GRAVITY MAIN OR 3 FEET FROM MOBILE HOME.
- 6. ALL EXISTING TERMINAL CLEANOUTS SHALL BE REPLACED AND IF MISSING SHALL BE FURNISHED
- 7. ALL LOCATION OF SANITARY CLEANOUTS MUST BE COORDINATED WITH COLONY COVE MAINTENANCE PERSONNEL AND COUNTY PERSONNEL.
- 8. ALL SERVICES & CONNECTIONS TO MAIN SHALL BE LOCATED OUT FROM UNDER THE MOBILE
- 9. ELEVATED BENCHES SHALL BE CONSTRUCTED INSIDE THE MANHOLES FOR INVERTS LESS THAN 1.9 FEET FROM THE MOST BOTTOM INVERT. ALL OTHERS SHALL HAVE AN INSIDE DROP CONNECTION INSTALLED. BOTH METHODS SHALL HAVE A U-SHAPED CHANNEL CONSTRUCTED TO DIRECT THE FLOW TO THE EXISTING PIPE.
- 10. WHERE MANHOLE LINER IS PROPOSED, THE LINER SHALL BE INSTALLED OVER THE ENTIRE MANHOLE INTERNAL SURFACE, INCLUDING THE BENCH AND CHANNELS.

CAST IRON RING & COVER -

6" C.O. WITH

36" MIN 6" SDR-26—

BEND BxS

MINIMUM

(AS NECESSARY)

FROM B/C 🗗 🛚

6"x6"x45° WYE-/ 4 FRAME & COVER-

2. "SCO" TO BE IMPRESSED INTO THE NEWLY-POURED CONCRETE CURB, ALONG WITH DISTANCE IN

GALVANIZED STEEL SCREW IN THE EDGE OF PAVEMENT WITH THE FOOTAGE FROM THE DISC TO

4. NO SERVICE CONNECTIONS TO BE MADE TO THE CLEAN-OUT RISER. ALL DOMESTIC CONNECTIONS

6. CLEAN-OUT ADAPTER TO BE SOLVENT-WELDED TO RISER TOP. CLEAN-OUT THREADS SHALL BE

(CUL-DE-SAC W/MEDIAN) THE DISTANCE BETWEEN THE CENTER OF THE CO RISER & THE ROW

7. WHEN THE DISTANCE BETWEEN THE EDGE OF THE SIDEWALK & THE ROW LINE IS ONE FOOT

FEET TO THE CLEAN-OUT. IF NO CURB INSTALL A GREEN DISC WITH "SCO" AND 1/8" X 1"

3. SANITARY SEWER CLEAN-OUTS SHALL NOT BE LOCATED IN DRAINAGE SWALES, EASEMENTS,

5. SEWER SERVICE SHALL BE 5' MIN. FROM WATER SERVICE OR FIRE HYDRANT.

WRAPPED WITH TEFLON PLUMBERS TAPE TO SEAL PLUG WATERTIGHT.

6" SDR-26 PVC-

—SERVICE LATERAL

─MAIN × 6" SERVICE WYE

-6" SDR 26 PVC

I. RUBBER DONUTS ARE NOT TO BE USED.

(LENGTH AS REQUIRED)

SHALL BE MADE TO THE STUB-OUT PROVIDED.

-MAIN x 6" SERVICE

SERVICE PIPE

45° ELBOWS-

THREADED PLUG -

PVC RISER

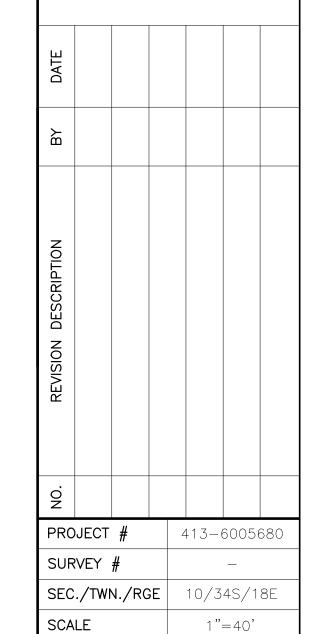
6" 45° OR 22.5°—

USF 7621 OR EQUAL

- 11. CONTRACTOR TO ENSURE ALL SEWER LATERAL SERVICES ARE RE-INSTATED AND OPERATIONAL AS SOON AS POSSIBLE AND NOT TO EXCEED THE END OF THE DAY.
- 12. ALL WORK SHALL BE COORDINATED WITH COLONY COVE PERSONAL, SO NOTIFICATION OF SEWER OUTAGES CAN BE ADVERTISED TO THE AFFECTED RESIDENTS.



M



DATE BY

SURVEYED DESIGNED 5/2015 JSS CB/JSS | 5/2015 DRAWN CHECKED

J. SHEA SHOUN, P.E. STATE OF

MANATEE COUNTY PUBLIC WORKS DEPARTMENT

LINE SHALL BE 6".

US-8

SIDEWALKS OR DRIVEWAYS.

SINGLE AND DOUBLE REV.BY DATE CLB/DOM 11/10 MAY 10, 2011 DATE OF APPROVAL

SERVICE CONNECTION

PAINTED GREEN

ROW LINE

SERVICE LENGTH

SERVICE LENGTH

EXCEEDS 80'-0"

'SDR-26 PVC

45° OR 22.5°

PROFILE

BEND BxB

45° ELBOW—

(TYP.)

(LENGTH AS REQUIRED

FOR DEEPER LATERALS)

(SEE NOTE 7)

TO BUILDING

─ 1'-0" (SEE NOTE 7)

HOLD (@ 25" UNLESS

└─ DWV HOUSE

(BY PLUMBER)

SERVICE

__ 6"x4" HxS

45° BEND

4"HxS

- ROW LINE

—2" PVC PIPE

PAINTED GREEN

PAINTED GREEN

CLEAN-OUT (TYP.)

DWV ADAPTER

(BY PLUMBER)