# **MEDALIST ROAD WM REPLACEMENT** MANATEE COUNTY, FLORIDA 100% PLANS 5156170





JANUARY 2021



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PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES									
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Manatee

- ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE PROJECT MANAGEMENT DIVISION. THE PROJECT MANAGER IS: ALEX GONZALEZ AND CAN BE REACHED AT 941.708.7450 x(941)-708-7450, EXT. 7338.
- SITE VISITS ARE MANDATORY FOR ALL BIDDERS.
- ALL CONSTRUCTION ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF MANATEE COUNTY UTILITY AND TRANSPORTATION STANDARDS AND/OR FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" UNLESS OTHERWISE INDICATED ON THE PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL CONDITIONS AND REQUIREMENTS OF ALL PERMITS AND ALL GOVERNING FEDERAL, STATE, AND LOCAL AGENCIES. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS THAT ARE NOT PROVIDED IN THE BID DOCUMENTS, AT NO ADDITIONAL COST TO THE OWNER.
- THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATION THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED.
- . THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS ON THE PLANS AND REVIEW ALL FIELD CONDITIONS THAT MAY AFFECT CONSTRUCTION. SHOULD DISCREPANCIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO OBTAIN THE ENGINEER'S CLARIFICATION BEFORE COMMENCING WITH CONSTRUCTION.
- AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE CALL OF FLORIDA AT 1-800-432-4770 OR THE NATIONAL 811 ONE CALL NUMBER WHEN APPLICABLE FOR UTILITY LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL UTILITIES FOR THE POSSIBLE RELOCATION OR THE TEMPORARY MOVEMENT OF ANY EXISTING UTILITIES WITHIN THE RIGHTS-OF-WAY.
- 3. 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.

<u>SAFETY</u>

- 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.
- 1. 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. 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.
- 14. 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.
- 15. 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.
- 16. 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.
- 17. 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.
- 18. 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.
- 19. ALL EROSION AND POLLUTION CONTROL DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER EACH RAINFALL AND SHALL BE CLEANED OUT AND/OR REPAIRED AS REQUIRED.
- 20. THE CONTRACTOR SHALL NOT ENTER UPON OR IN ANY WAY ALTER WETLAND AREAS THAT MAY BE ON OR NEAR THE CONSTRUCTION SITE. ALL 51. WHERE IT IS NECESSARY TO DEFLECT PIPE EITHER HORIZONTALLY OR VERTICALLY, PIPE DEFLECTION SHALL NOT EXCEED 75% OF THE 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.
- 21. FOR MORE INFORMATION, SEE THE EROSION CONTROL DETAIL SHEET INCLUDED IN THE PLANS.

RIGHT-OF-WAY

- 22. ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE MANATEE COUNTY/FDOT RIGHT-OF-WAY AND/OR EASEMENTS SHOWN ON THE DRAWINGS.
- 23. 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.
- 24. 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.
- 25. 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.
- 26. 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.
- 27. 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.
- 28. 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>

- 29. 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.
- 30. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, WATER/RECLAIM/SEWER LINES, STORM DRAINS, OTHER 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 COUNTY.
- 31. THE CONTRACTOR SHALL USE APPROPRIATE TECHNIQUES, AS APPROVED, RECOMMENDED, OR OFFERED BY AN EXISTING UTILITY, (I.E. FLORIDA POWFR 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 ANY RELATED COSTS.
- 32. 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.
- 33. 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.
- 34. ALL WATER SERVICES TO BE INSTALLED OR MODIFIED ON PRIVATE PROPERTY SHALL REQUIRE A PLUMBING PERMIT;

• SWIMMING POOL.

- D. VACUUM BREAKERS SHALL BE INSTALLED ON ALL EXTERNAL HOSE BIBBS.

RESTORATION

- OTHERWISE.

37. ASPHALT DRIVES THAT ARE CUT SHALL BE RESTORED PER SECTION 02513. 38. 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 AND THE F.D.O.T. DESIGN STANDARDS. CONCRETE WITH A 3,000 PSI @ 28 DAYS SHALL BE USED.

- **CONSTRUCTION**

- RECORD.
- REQUIRED.

- SYSTEMS.

- PLACE.

MAINTENANCE OF TRAFFIC

A. THE CONTRACTOR'S PLUMBER SHALL INSTALL A REDUCED PRESSURE (RP) TYPE BACKFLOW PREVENTION ASSEMBLIES (BPA'S) EQUIPPED WITH A PRESSURE RELIEF VALVE AT THE POTABLE WATER METER WHENEVER ANY OF THE FOLLOWING CONDITIONS EXIST AT A PROPERTY: IN-GROUND IRRIGATION SYSTEM. • SECONDARY SOURCE OF WATER (I.E. RECLAIMED WATER OR WELL),

•FIRE SPRINKLER SYSTEM,

•FLOOD ZONE DESIGNATION, (IF ONLY FLOOD ZONE, INSTALL A DOUBLE CHECK BPA), • PROPERTY THAT ABUTS OR INCLUDES A BODY OF WATER (INCLUDING RIVER, BAY, LAKE OR POND),

• SOLAR WATER HEATING SYSTEM, • MULTISTORY OR MULTIFAMILY RESIDENTIAL FACILITY.

B. A LICENSED PLUMBER SHALL INSTALL THE BPA'S IN ACCORDANCE WITH THE CURRENT FLORIDA PLUMBING CODE AND MANATEE COUNTY CODE OF ORDINANCES, AND SHALL SELECT A PRESSURE RELIEF VALVE WITH AN APPROPRIATE PRESSURE SET POINT TO PROTECT THE CUSTOMERS' PLUMBING AND NOT ALLOW EXCESSIVE LEAKAGE DUE TO SYSTEM SUPPLY PRESSURE. A PRESSURE REDUCING VALVE MAY BE NECESSARY UPSTREAM OF THE PRESSURE RELIEF VALVE, WHERE NORMAL SUPPLY PRESSURE EXCEEDS 80 PSI. CONTRACTOR SHALL COORDINATE WITH COUNTY CROSS CONNECTION CONTROL STAFF AS REQUIRED.

C. IF IN-GROUND IRRIGATION SYSTEM IS CONNECTED TO THE POTABLE WATER LINE, AN ADDITIONAL REDUCED PRESSURE (RP) BPA SHALL BE INSTALLED AT THE POINT OF CONNECTION.

CONTRACTOR SHALL COORDINATE WITH COUNTY CROSS CONNECTION STAFF & PRIVATE PROPERTY OWNER AS REQUIRED. CROSS CONNECTION STAFF SHALL DETERMINE WHICH PROPERTIES REQUIRE A BPA AND TYPE OF BPA TO BE INSTALLED.

34. ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES UNLESS SHOWN

35. 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.

36. 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. 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.

40. 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. RESTORATION EFFORTS SHALL BE INCLUDED IN THE PROJECT SCHEDULING AND PHASING PLAN TO DEMONSTRATE HOW THE RESTORATION WILL BE ACHIEVED.

41. 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.

42. 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.

43. THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS REQUIRED.

44. INGRESS AND EGRESS TO ALL THE PROPERTIES IN THE CONSTRUCTION AREA SHALL BE MAINTAINED AT ALL TIMES.

45. PRIOR APPROVAL WILL BE REQUIRED FOR REMOVAL OF ANY TREE WITHIN THE CONSTRUCTION AREA.

46. THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP ALL EXCAVATIONS DRY. DEWATERING IS REQUIRED TO 18" BELOW TRENCH BOTTOM.

47. 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. MODIFICATIONS MUST BE APPROVED BY THE ENGINEER OF

48. ALL PIPE SHALL BE COLOR CODED TO CONFORM TO MANATEE COUNTY STANDARDS.

49. ALL PIPE AND FITTINGS SHALL BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER AND ALL PIPE JOINTS SHALL BE RESTRAINED WHERE

50. 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.

MANUFACTURER'S MAXIMUM ALLOWABLE RECOMMENDED DEFLECTION.

52. 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.

53. 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. 54. ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES ON COUNTY OWNED AND MAINTAINED UTILITY

55. ALL PENETRATIONS OF EXISTING STRUCTURES SHALL BE BY MECHANICAL ROTARY CORE DRILLING METHOD. ALL CONCRETE PENETRATED OR DISTURBED SHALL BE COATED WITH TWO COATS OF EPOXY.

56. 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.

57. 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.

58. 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

59. 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.

60. FIELD CONDITIONS MAY NECESSITATE MINOR ALIGNMENT AND GRADE DEVIATION OF THE PROPOSED UTILITIES TO AVOID OBSTACLES, AS ORDERED BY THE ENGINEER.

61. CONTRACTOR SHALL PROVIDE RECORD DRAWINGS IN ACCORDANCE WITH SECTION 1.15 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 1.15 SHALL BE STRICTLY ENFORCED. A COPY OF SECTION 1.15 CAN BE PROVIDED UPON REQUEST.

62. THE CONTRACTOR SHALL MAINTAIN AS-BUILT DRAWINGS OF THE WORK AS CONSTRUCTED. AS-BUILT DRAWINGS SHALL INCLUDE THE LOCATION OF ABANDONED MAINS CUT AND PLUG POINTS. AS-BUILT DRAWINGS SHALL BE ANNOTATED EACH DAY AS THE WORK PROCEEDS AND SHALL BE AVAILABLE TO THE COUNTY PROJECT MANAGER AND/OR FIELD INSPECTOR FOR REVIEW ON AN ONGOING BASIS. AS-BUILT DRAWINGS SHALL PROVIDE THE HORIZONTAL AND VERTICAL INSTALLED LOCATION OF ALL NEW PIPELINE, FITTINGS, VALVES AND APPURTENANCES REFERENCED TO FIXED SURFACE FEATURES THAT ARE SHOWN ON THE CONSTRUCTION DRAWINGS AND/OR RIGHT-OF-WAY LINES, PROPERTY CORNERS OR OTHER SURVEYED POINTS. THE CONTRACTOR SHALL BE ABLE TO PRESENT THE RECORD DRAWINGS TO THE COUNTY PROJECT MANAGER AND/OR INSPECTOR ON DEMAND AS THE WORK PROGRESSES.

EXISTING UTILITY LOCATIONS

63. THE FOLLOWING IDENTIFIES THE QUALITY LEVEL OF EXISTING UTILITY LINEWORK ON PLANS.

LEVEL "A" -VISUALLY LOCATED OR SOFT DIGS (HORIZONTAL AND VERTICAL) LEVEL "B" - DESIGNATED BY GPR OR FLAGGING (HORIZONTAL)

LEVEL "C" -SURFACE VISIBLE FEATURES SURVEY

LEVEL "D" -EXISTING RECORDS OR GIS REFERENCE 2010 EDITION OF FDOT UTILITY ACCOMODATION MANUAL (UAM)

64. THE CONTRACTOR IS RESPONSIBLE FOR ANY TRAFFIC CONTROL PLAN (TCP) IMPLEMENTED. THE TCP SHALL BE PREPARED BY AN INDIVIDUAL

CERTIFIED TO PREPARE A TCP IN THE STATE OF FLORIDA THAT MEETS OR EXCEEDS THE REQUIREMENTS OF THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS LATEST EDITION (SERIES 600). ANY DEVIATIONS MUST BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA AND SUBMITTED TO COUNTY (AND FDOT) FOR APPROVAL AT LEAST FOURTEEN (14) DAYS PRIOR TO THE START OF CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COUNTY (AND FDOT) APPROVAL PRIOR TO IMPLEMENTATION AND FAILURE TO OBTAIN APPROVAL SHALL NOT BE GROUNDS FOR ANY DELAY CLAIM FOR TIME OR ADDITIONAL COMPENSATION.

- THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING.
- STANDARD INDICES ARE CONCEPTUAL.
- BE INCLUDED IN THE COST OF PIPE.
- PROPOSED LANE CLOSURES OR DETOURS.
- CONTROL PLANS.
- 72. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO WORKING NEAR THEIR EXISTING FACILITIES.
- SHALL BE NO SEPARATE PAYMENT.
- AS PER FDOT STANDARD INDEX 600.
- COMPENSATION.

EXISTING

		BENCH MARK	<b>L</b>	BUSH
СМ		CONCRETE MONUMENT	3 C	TREE
	0	IRON PIPE	ESS -	OAK TREE
	•	IRON ROD	X	PALM TREE
	Δ	HUB	J.	PINE TREE
	0	NAIL & DISK	*	
×5.23		ELEVATION		
1234	Ð	PARCEL ID NO.		
1234	)	PARCEL ID NO.	$\cdots$	EDGE OF VEGETATION
777	)	LOT NO.		CHAIN LINK FENCE
	$\leftarrow$	GUY WIRE		WOOD FENCE
PP	ø	POWER POLE		BARBED WIRE FENCE
	¢	LIGHT POLE	FM	FORCE MAIN
	ď	MAIL BOX	PW	POTABLE WATER
	þ	SIGN		RECLAIMED WATER
REF	9	REFLECTOR	ss	SANITARY SEWER
	۲	SPRINKLER	s	STORM DRAIN
	©	GAS MARKER	GAS	GAS LINE
	-0-	BACKFLOW PREVENTER	OCHR	OVERHEAD CHARTER
	No	BLOW OFF VALVE	CHR	UNDERGROUND CHARTER
FH	Ŷ	FIRE HYDRANT	OE	OVERHEAD ELECTRIC
WV	M	WATER VALVE	BE	UNDERGROUND ELECTRIC
ARV	(A)	AIR RELEASE VALVE	OH FTR	OVERHEAD FRONTIER
WM		WATER METER	FTR	UNDERGROUND FRONTIER
	S	SANITARY SEWER MANHOLE	PCO	UNDERGROUND PRECO
	0	SANITARY SEWER CLEAN OUT	FPL	UNDERGROUND FPL
SB#1	÷	SOIL BORING LOCATION	—— он ———	OVERHEAD UTILITY
TEL (	TED	TELEPHONE SERVICE BOX	+++++++++++++++++++++++++++++++++++++++	RAIL ROAD TRACKS
UB	2X	UTILITY BOX		EDGE OF CONCRETE
(K	)	UTILITY RISER		EDGE OF ROAD
	(	FLOW DIRECTION		TOE OF SLOPE
GI		GRATE INLET		TOP OF BANK
(		MITERED END SECTION		PROPERTY LINE
C	)	STORM SEWER MANHOLE		RIGHT OF WAY

EMERGENCY CONTACTS

FLORIDA GAS TRANSMISSION

PHONE: (813) 466-3327

FDEP, SOUTHWEST DISTRICT

TEMPLE TERRACE, FL 33637

BRADENTON, FL. 34208-5535

SUNSHINE STATE ONE CALL OF

FLORIDA 1-(800) 432-4770

(941) 748–3816 EXT. 21348

TOM.WRIGHT@CHARTER.COM

13051 N. TELECOM PKWY

FAX: (813) 470-5993

CHARTER COMMUNICATIONS

5413 E. STATE ROAD 64

E-MAIL: CHAD.HARRELL@SUG.COM

7804 ANDERSON RD.

TAMPA FL 33634

JOHN LUDLOW

ED WATSON

TOM WRIGHT

(813) 470-5875

MANATEE COUNTY PUBLIC WORKS DEPT UTILITY ENGINEERING SCOTT MAY, 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

FRONTIFR JOHN PLOTT 1701 RINGLING BLVD. SARASOTA, FL. 34236 (941) 906–6707 FAX: (941) 906-6706 JOHN.PLOTT@FTR.COM

(941) 723–4430 FAX: (941) 723-4444 EMERGENCY: 1-800-4-OUTAGE GREG\_COKER@FPL.COM MANATEE COUNTY HEALTH DEPT. HANS ROESE 410 6TH AVENUE EAST BRADENTON, FL. 34208 (941) 748-0747 EXT. 1355

GREG COKER

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT SARASOTA SERVICE OFFICE STEVE LOPES, P.E. 6750 FRUITVILLE ROAD SARASOTA, FL. 34240 (941) 377–3722 FAX: (941) 373-7660

65. THE CONTRACTOR PRIOR TO CONSTRUCTION AND RESTRICTING ANY TRAFFIC, MUST OBTAIN A RIGHT-OF-WAY USE PERMIT AND A TRAFFIC CONTROL PLAN (TCP). 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 TCP SHALL BE SUPPLIED BY

66. THE CONTRACTOR SHALL USE, BUT ARE NOT LIMITED TO, FDOT INDICES 415, 600, 615, 616, AND 621. THE RECOMMENDED FDOT DESIGN

67. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE TEMPORARY DRAINAGE. THERE WILL BE NO DIRECT PAY FOR THIS WORK. COSTS SHALL

68. MOTORIZED AND MECHANICAL EQUIPMENT SHALL BE EFFECTIVELY SHIELDED, PADDED, OR LOCATED TO MINIMIZE NOISE.

69. THE CONTRACTOR WILL NOTIFY ALL EMERGENCY AND RESCUE AGENCIES LOCATED IN THE PROJECT VICINITY 24 HOURS IN ADVANCE OF ANY

70. ACCESS TO ALL SIDE STREETS AND DRIVEWAYS MUST BE PROVIDED AND MAINTAINED DURING CONSTRUCTION.

71. USE FDOT INDEX NO. 619 FOR TRAFFIC CONTROL MEASURES WHEN CONSTRUCTION EQUIPMENT IS DRIVEN ON OPEN TRAVEL LANES. THE REGULATORY SPEED IN WORK ZONES SHOULD BE AS CLOSE TO NORMAL CONDITIONS AS POSSIBLE, UNLESS NOTED ON THE TRAFFIC

73. CONSTRUCTION SEQUENCES SHALL BE COORDINATED TO PROVIDE POSITIVE DRAINAGE OF THE TRAVELWAYS AT ALL TIMES.

74. ANY MOT ITEM NOT SPECIFICALLY LISTED UNDER A PARTICULAR PAY ITEM SHALL BE CONSIDERED SUBSIDIARY TO OTHER BID ITEMS. THERE

75. THE MAXIMUM SPACING BETWEEN WARNING DEVICES USED FOR DELINEATION BETWEEN THE TRAVELWAY(S) AND CONSTRUCTION AREA SHALL BE

76. ALL DETOURS, IF APPROVED BY THE COUNTY, SHALL ADHERE TO THE REQUIREMENTS SET FORTH IN THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D. LATEST EDITION) AND THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS, LATEST EDITION (600 SERIES). ANY DETOUR RECOMMENDED BY THE CONTRACTOR MUST BE SUBMITTED TO THE COUNTY (AND FDOT) FOR APPROVAL AT LEAST FOURTEEN (14) DAYS PRIOR TO THE START OF CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COUNTY (AND FDOT) APPROVAL PRIOR TO IMPLEMENTATION AND FAILURE TO OBTAIN APPROVAL SHALL NOT BE GROUNDS FOR ANY DELAY CLAIM FOR TIME OR ADDITIONAL

LEGEND



ABBREVIATIONS

R/W

CONC

SWK

FP

RIGHT OF WAY CONCRETE ASPHAL DRIVEWA' SIDEWALK EDGE OF PAVEMENT BOC BACK OF CURB 

> PEACE RIVER ELECTRIC COOPERATIVE. INC. P.O. BOX 1310 WACHULA, FL 33873 KENDELL COKER (863) 767-4660 KENDELL.COKER@PRECO.COOP

MANATEE COUNTY PUBLIC WORKS DEPT./TRAFFIC ENGINEERING/ ATMS 2101 47TH TERRACE EAST BRADENTON, FL 34203 VISHAL KAKAAD, P.E. (941) 749-3500 EXT. 7812 FAX: (941) 749-3571 VISHAL.KAKKAD@MYMANATEE.ORG.

CITY OF BRADENTON PUBLIC WORKS 1411 9TH ST. W. BRADENTON, FL 34205 JIM MCLELLAN JIM.MCLELLAN@CITYOFBRADENTON.COM PHONE: (941) 708-6300 FAX: (941) 708-6309

SHEET



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

	MEDALIST ROAD WM REPLACEME		A MIDO TO VINITA TO TATA MANA	MANALEE COUNTY, FLOMDA	N			100 × 22 00 lochee) WC_2016 SIB
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FLORIDA POWER & LIGHT 1253 12TH AVENUE EAST PALMETTO, FL 34221

FAX: (941) 750-9364





















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AREA	RESTORATION
	BASE AND RESURFACE ASPHALT
	MILL & OVERLAY
	CURB RESTORATION
	CONCRETE DRIVEWAY RESTORATION



S B ft. x d inches 11.25°BEND DEAD END & TEF B d B d B d L DEAD END & TEF B d B d B d					REQUIRED	LENGTH ( FOR DIP ()	OF RESTRAINED JOINT POLY-WRAPPED)	PIPE
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				MAIN HORIZ	Z. BENDS	TEES	REDUCERS	PLUGS & VALVES
1.1 $3\frac{1}{2}$ $2.4$ $5\frac{3}{4}$ $2.0$ $4\frac{3}{4}$ 1.3 $3\frac{1}{2}$ $3.0$ $7\frac{1}{4}$ $2.5$ $6$ 1.6 $3\frac{3}{4}$ $3.5$ $8\frac{1}{4}$ $3.0$ $7\frac{1}{4}$ 1.8 $4\frac{1}{4}$ $9\frac{3}{4}$ $3.4$ $8\frac{1}{4}$	REQUIRED LENGTH FOR C900	I OF RESTRAINED JOINT PIP -16 PVC PIPE (DR-18)		PIPE         90°           36         142           30         124	45° 22.5° 59 28 ×36 393 ×30 51 25 ×30 333 ×24	SIZE LENG 318 ×24 ×20 318 ×22 16 252 ×20 ×16 252 ×20 ×16 ×16 ×12	SIZE     LENGTH       55     84     1     137     247     309       55     84     1     137     247     309       55     23     1     137     213     276       15     23     1     137     213     276       10     x8     x20     x16     x12	<16 359 453 391 727
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	PIPE SIZE 90° 45° 22.5° SIZE	LENGTH SIZE LENGTH	LUGS & VALVES	20 92	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	211 143 61 61 X12 X10 61 85 39 X10 X8	1         10         1         98         178         241           x8         X16         X12         X10         X10         227           x6         X12         X10         X8         X12         X10         X8	280
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	24         90         38         18         X24         169         X10           20         78         32         16         X20         141         X16         X11	6         X12         X10         X20         X16         X12           90         38         6         64         117         158           2         X10         X8         X16         X12         X10           53         24         1         65         X12         X10	214 184	16         77           12         61	32         15         10         177         1           25         12         X12         127         X10	07 65 19 39 X8 50 1	x01         x12         x10         x6         x6           x10         x8         y6         x131	231 181
$3.1$ $7\frac{1}{2}$ $6.9$ $16\frac{1}{2}$ $5.8$ $14$ $3.8$ $9$ $8.5$ $20\frac{1}{2}$ $7.2$ $17\frac{1}{4}$	16         66         27         13         X16         X12         X1           12         52         22         10         X12         X10         X	0         X8         X12         X10         X8           41         12         64         107         111           8         X6         X10         X8         X6	151	10         52           8         44	22 10 X10 X8 18 9 X8 78 X6	54 ×6 54 11 50 ×4 1	X8 X6 X4 51 94 125 X6 54 92	153
4.5 10 <sup>3</sup> / <sub>4</sub> 10.2 24 <sup>1</sup> / <sub>2</sub> 8.6 20 <sup>3</sup> / <sub>4</sub>	10 44 18 9 X10 X8 40	31         1         58         62         86           6         X8         X6         X4         81           7         X6         X4         81	100	6 34 4 24	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		X4 50	98
5.75' & 12.5' USE #4 @ 8" EACH WAY	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	<sup>4</sup> 1	63					I
N 5.75' USE #3 @ 8" EACH WAY	4 21 8 4 X4 12		45					
DJACENT TO THRUST BLOCKS SHALL BE WRAPPED IN								
0.0 KSI. THRUST BLOCK SHALL BE CAST AGAINST FIRM								
EKS TO SAVE SPACE. HOWEVER, WHERE THRUST BLOCKS AND ETAILS, BOTH SHALL BE INSTALLED.								
8-7-8	<u>NOTES:</u> 1. RESTRAIN 11.25° BENDS 50% OF LENG	TH FOR 22.5° BENDS.						
	2. ALL VALVES AND FITTINGS SHALL BE R 3. ALL ISOLATION VALVES MUST BE PROP	ESTRAINED TO THE CONNECTING SECTION ERLY ANCHORED OR RESTRAINED TO R	ONS OF PIPE. ESIST A 180 PSI					
"B" SQ	TEST PRESSURE IN EITHER DIRECTION. 4. PIPE SIZES ARE GIVEN IN INCHES.							
<u>45°, 22.5° OR 11.25° BEND</u>	<ol> <li>RESTRAINED PIPE LENGTHS ARE GIVEN</li> <li>LENGTHS SHOWN ARE FOR A TEST PRE</li> <li>THE RESTRAINED LENGTHS SHOWN IN T</li> </ol>	in feet. SSURE of 180 PSI. These tables are based on soil cl	ASSIFICATION SP					
	WITH AWWA TYPE 3 TRENCH CONDITION 1.5 FACTOR OF SAFETY. ACTUAL BURY OF RECORD AND THE RESTRAINED LEN	CONDITIONS MUST BE DETERMINED BY	OF COVER AND THE ENGINEER					
	8. RESTRAINED LENGTHS TO BE APPLIED FOR PIPE.	TO PIPELINES PER DETAIL UG-10 $RES^{-1}$	TRAINED LENGTHS	NOTE:				
$3 \frac{1}{2}$ "B" SQ.	9. ALL RESTRAINED JOINT HARDWARE SHA UTILITIES STANDARDS MANUAL.	LL CONFORM TO 1.11.17 OF THE PUB	LIC WORKS	1. SEI ALS	E UG-8, <u>RESTRAINED</u> SO APPLICABLE TO RE	<u>LENGTHS FOR</u> STRAINED LENG	<u>PVC PIPE</u> DETAIL FOR NOTES 1 THR THS FOR DIP.	OUGH 9 THAT ARE
<u>45 WIE</u>	MANATEE COUNTY	RESTRAINED		MAN	NATEE COUNT	Y		
ICRETE THRUST UG-7	REV.BY DATE	LENGTHS FOR PVC	UG-8	REV.BY DATE		<u> </u>	RESTRAINED LENGTHS FOR DIF	, UG-9
	February 25, 2020       DATE OF APPROVAL	PIPE			<u>February 25,</u> DATE OF APPRO	2020 )VAL	REMOVE & REPLACE EX. CL	
G TO BE DETERMINED IN THE FIELD BY THE	I. BITUMINOUS PAVEMENT SHALL BE REMOVED IN C PAVEMENT ADJOINS A TRENCH, THE EDGES ADJAC DEFORE THAT ALL ADD	LEAN STRAIGHT LINES BY SAW CUTTING. WHER	E BITUMINOUS A NEAT STRAIGHT LINES					
AND COMPACT STAGE 1 BEDDING MATERIAL IN	USED TO COMPACT THE SUB-GRADE OR PAVING 2. USE OF TYPE A-2 AND A-3 PIPE BEDDING TO	MATERIALS. BE DETERMINED IN THE FIELD BY THE ENGINEI	ER.					
PIPE EMBEDMENT MUST BE COMPACTED OUT TO E OD, WHICHEVER IS LESS.	<ol> <li>PROVIDE ADEQUATE CLEARANCE TO PLACE AND C SPRINGLINE. PIPE EMBEDMENT MUST BE COMPA WHICHEVER IS LESS.</li> </ol>	OMPACT STAGE 1 BEDDING MATERIAL IN TRENT CTED OUT TO THE TRENCH WALL OR 2.5 TIME	CH AREA BELOW PIPE IS THE PIPE OD,			BASE SUB-BASE		
SEWERS	<ol> <li>PIPE INSTALLATION SHALL BE IN ACCORDANCE WI</li> <li>ASPHALTIC CONCRETE STRUCTURE COURSE WITH A MINIMUM OF 1-1/4 INCH S-I, WHICHEVER IS</li> </ol>	TH THE MANUFACTURER'S WRITTEN INSTRUCTIO PRIME COAT SHALL BE THE SAME DEPTH AND GREATER.	NS. TYPE AS EXISTING OR	CONDITION 1	L: TRENCH AND	EX. PAVEN		TRACER WIRE
SLWENS.	<ol> <li>MILL 25' BACK FROM TRENCH CROSSING SAW CU BUTT JOINT TO EXIST ASPHALT. FINAL OVERLAY MILLING LIMITS THAT IMPACT INTERSECTION SHALL</li> </ol>	JTS. ADJUST MILLING PER INDIVIDUAL SITE TO TO MATCH EXISTING WITH NO DISCERNABLE "E BE ADDRESSED ON A CASE BY CASE BASIS	) NOT IMPACT BASE. BUMP" AT JOINT. AND APPROVED BY	ADJACENT TO	O EOP OR CURB.	ELECIK P.	ATH MARKING TAPE	UNDISTURBED SC
	MANATEE COUNTY. 7. SHEETING ORDERED LEFT IN PLACE TO BE CUT	DFF 24" BELOW FINISHED GRADE OR 12" BEL	OW SUBGRADE.		WATER, S	EWER, OR RECLAII ဇု	M PIPE TO BE INSTALLED	
3"– 4" CROWN	<ol> <li>New Base Shall Match Existing; or be cross GREATER.</li> <li>TEMPORARY PATCHES WILL BE INSTALLED TO PRO BERLACEMENT TO BE MADE AS SOON AS POSSIBLE</li> </ol>	DVIDE A SMOOTH ALL WEATHER SURFACE AT A	LL TIMES. PERMANENT			SAW CUT —	A A B 	
	10. RESTORE SIGNAGE & MARKING WITH THERMOPLAS 11. TRACER WIRE NOT REQUIRED FOR GRAVITY SEWE	LE. TIC PER FDOT STANDARDS, LATEST EDITION. RS.				BASE		
	12. NOTES 5. THRU 10. ARE MINIMUM REQUIREMENTS MANATEE COUNTY HIGHWAY AND TRAFFIC STANDA	S FOR A TRENCH IN A LOCAL ROAD. REFER TO RDS FOR ADDITIONAL REQUIREMENTS.	O LATEST EDITION OF		EX.	SUB-BASE		
				CONDITION 2 BASE REPAIR	2: TRENCH AND E RS ARE LOCATED	X. PAVEMENT		PATH MARKING TAPE
	MILL EXIST. ASPHALT 3/4" MIN. S 1-1/4" MIN. S	& PATCH PRIOR TO PLACING FINAL LAYER -III ASPHALTIC CONCRETE OVERLAY ASPHALTIC CONCRETE W/ PRIME COAT E NOTE 5), BOTTOM LAYER	25'	IN THE MIDD TRAVEL LANE	DLE OF THE E.	SELECT C		
2 MIN -180	SAW CUT JOINT		SAW CUT JOINT			RECLAIM FIFE R		
AND O AND O SITY, AV								X. BASE
	EXISTASPHALT SELECTED COMMON FILL	SEE NOTE 7-0	EXIST. –		X. PAVEMENT -/ SA		TRACER WIRE	EX. SUB-BASE
	6" ELECTRICALLY DETECTABLE PATH MARKING TAPE BETWEEN 12" & 24" BELOW FINISH SURFACE OVER PIPE. TAPE SHALL BE	0 0	D - 180	CONDITION 3 BASE REPAIR	<u>ז:</u> TRENCH AND RS ARE ALSO נ THE ADJACENT	ELECTRICALLY DETECTABLE PATH MARKING TAPE	WATER, SEW PIPE TO BE SELECT CON	/ER, OR RECLAIM INSTALLED IMON FILL
	MARKED "WATER", "SEWER" OR "RECLAIMED"		ASHTO T-	TRAVEL LANE	E.			D SOIL EX. PAVEMENT UNDISTURBED SOIL
6" MIN	#10 COPPER CLAD STEEL WIRE CONTINUOUS (SEE NOTE 11)		DENSITY, J	A = MILL EXIST. $B = 1 - 1/4" MIT$ $C = FULL BASE$ $D = 9 INCHES$	ASPHALI & PLACE 3/4 N. S–I ASPHALTIC CONCR REPLACEMENT.	¥″ MIN. S−III ASP ETE W∕ PRIME C	PALTIC CONCRETE OVERLAY.	Select common fill       Base Replacement       S-1
BEDDING	SELECTED COMMON FILL PIPE BEDDING ENVELOPE (SEE NOTE 2)		BACK TO 98%	NOTE: 1. THIS DETAIL OF A ROADW	IS BASED ON A TWO-LAP AY AND RUNS PARALLEL	NE ROADWAY AND WITH THE EDGE (	SHALL BE FOLLOWED WHEN A PIPE IS II OF PAVEMENT. THIS DETAIL CAN ALSO B	NSTALLED WITHIN THE LIMITS
UNDISTURBED STABLE MATERIAL	UNDISTURBED STABLE MATERIAL			NEEDS OF ROADS. 2. THE MILL AN CONSTRUCTO	UNDIVATS WITH ADDITIONA	L LANES. CONDITED TO BE COORDINATED	MUN 3 UNLY EXTENDS TO NEXT ADJACEN MEET THE NEEDS FOR PAVEMENT RESTO WITH THE COUNTY	i lane on multi-lane
			1	3. SEE TRENCH APPLICABLE	WITH ASPHALT PAVEMENT TO ASPHALT PAVEMENT R	TYPE A-1 PIPE ESTORATION.	BEDDING (CROSSING) DETAIL FOR NOTES	1 TO 12 THAT ARE ALSO
TRENCH WITH	PUBLIC WORKS DEPARTMENT	TRENCH WITH ASPHALT PAVEMENT SURFACE		MAN PUBLI REV.BY DATE	NATEE COUNT C WORKS DEPARTMEN	Υ Γ	PAVEMENT SURFACE	
A-1 PIPE BEDDING	<b>February 25, 2020</b>	ITPE A-1 PIPE BEDDING (CROSSING)			<b>February 25,</b>	<b>2020</b> E	itpe a-1 PIPE Bedding (longitudinal	





Z CEME RID 0 REPL  $\succ$ WM Z 0 H AD  $\mathbf{U}$ RO LS II Z ME PROJECT # 5156170 SURVEY # 20-0163 SEC./TWN./RGE27,28,33,34/35/ SCALE SEE PLAN DATE ΒY TDP |04-29-2 SURVEYED DESIGNED LD 08-11-2 DRAWN LD 08-11-2 CHECKED LD 08-11-LORENZO DUARTE FLORIDA RE 24.79285 No. 79285 STATE OF















- FEET. COUNTRY
- THE SURVEY.

	PRIMARY CONTRO	L	SECONDARY CONTROL			
ID	NORTHING	EASTING	ID	NORTHING	EASTING	
'GOULDING" PID 1115781 9070		493651 5340	SND LB#7915	1116112.4060	494436.4980	
DQ8632			SND LB#7915	1116157.7180	494893.9090	
"MOLENO" PID DQ8633	1114709.9220	495283.5600	SND LB#7915	1116083.4160	495451.9110	

- OF RECORD, IF ANY.

- AREAS.
- 24.16'.
- INDICATIVE OF CONDITIONS AT THAT TIME.
- TOTAL STATION.

### THIS PAGE IS COMPROMISED OF INFORMATION EXTRACTED FROM THE ORIGINAL TOPOGRAPHIC SURVEY. THAT SURVEY IS AVAILABLE UPON REQUEST.

## Topographic Survey

BY PARK COASTAL SURVEYING, LLC.

of

In Section 27/28/33/34, Township 35 South, Range 16 East Manatee County, Florida

### DATA SOURCES

1. ALL COORDINATES ARE REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD 83) 2011 ADJUSTMENT FLORIDA WEST ZONE PER THE FLORIDA PERMANENT REFERENCE NETWORK (FPRN). ALL ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 ALSO PER NGS BENCHMARKS LISTED BELOW. ALL VALUES ARE DECIMAL US SURVEY

2. THE RIGHT-OF-WAY SHOWN IS PER PLAT (DESOTO LAKES COUNTRY CLUB COLONY, UNIT 1 - SECTION A (PLAT BOOK 9, PAGE 89 OF MANATEE COUNTY PUBLIC RECORDS) AND A REPLAT OF A PART OF DE SOTO LAKES CLUB COLONY, UNIT 1 -SECTION A (PLAT BOOK 11, PAGE 36 OF MANATEE COUNTY PUBLIC RECORDS) ROTATED TO FOUND MONUMENTATION. SEVERAL RECOVERED LOT MONUMENTS WERE FOUND TO BE OUT OF ALIGNMENT WITH THE PLAT LOCATION AS NOTED ON

### SURVEY CONTROL POINTS

### SURVEYOR'S REPORT

By Park Coastal Surveying, LLC. April 2020

1. BEARINGS AND COORDINATES SHOWN HEREON ARE BASED ON GRID NORTH OF THE NORTH

AMERICAN DATUM OF 1983 (2011) FLORIDA WEST ZONE, AS PER THE FLORIDA PERMANENT REFERENCE NETWORK (FPRN).

2. THIS IS NOT A BOUNDARY SURVEY AND SAID SURVEY IS SUBJECT TO PERTINENT EASEMENTS, RIGHTS OF WAY AND RESTRICTIONS

3. THE LOCATION OF UNDERGROUND UTILITIES SHOWN WERE PROVIDED BY A THIRD PARTY AND PCS DOES NOT WARRANTY THEIR VALIDITY AND/OR ACCURACY AND ADDITIONAL UTILITIES MAY OR MAY NOT BE IN THE SURVEY AREA.

4. THIS SURVEY DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF THE PARTY OR PARTIES NAMED IN THE CONTRACT FOR THIS PROJECT FOR THE EXPRESS PURPOSE STATED HEREON AND/OR CONTAINED IN THE SAID CONTRACT BETWEEN PARK COASTAL SURVEYING, LLC. AND THE CLIENT FOR THIS PROJECT. COPYING, DISTRIBUTING, AND/OR USING THIS DRAWING, IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN ORIGINALLY INTENDED WITHOUT WRITTEN CONSENT FROM PARK COASTAL SURVEYING, LLC. (PCS) IS STRICTLY PROHIBITED, AND RENDERS THE SURVEYORS CERTIFICATION, SIGNATURE, AND SEAL NULL AND VOID. ANY QUESTIONS CONCERNING THE CONTENT OR PURPOSE OF THIS DRAWING SHOULD BE DIRECTED TO PARK COASTAL SURVEYING,

5. THE SURVEY DEPICTED HEREON IS NOT INTENDED TO SHOW THE LOCATION OR EXISTENCE OF ANY WETLAND OR JURISDICTIONAL

6. ELEVATIONS SHOWN HERE ON ARE REFERENCE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988(NAVD 88) AS PER THE NGS BENCHMARKS "GOULDING" PID DQ8632 PUBLISHED ELEVATION = 23.01' AND "MOLINO" PID DQ8633 PUBLISHED ELEVATION

7. INFORMATION SHOWN HERON REFLECTS CONDITIONS AS THEY EXISTED AT THE DATE SHOWN AND CAN ONLY BE CONSIDERED

8. SURVEY INFORMATION SHOWN WAS COLLECTED WITH EITHER A TRIMBLE R8 GPS/GNSS RTK SYSTEM OR A TRIMBLE ROBOTIC 9. THE SURVEY WAS CONDUCTED OVER THE FOLLOWING DATE RANGE: 04/06/2020-05/21/2020

10. FENCE OWNERSHIP IS UNDETERMINED.

11. THIS PROPERTY LIES IN FLOOD ZONE "X" AS SHOWN ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP; COMMUNITY MAP NO. 12081C 0340 E, DATED FEBRUARY 15th 1984, SUBJECT TO VERIFICATION.

12. INFORMATION SHOWN HERON REFLECTS CONDITIONS AS THEY EXISTED AT THE DATE SHOWN AND CAN ONLY BE CONSIDERED INDICATIVE OF CONDITIONS AT THAT TIME.



SCALE



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

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