

SITE / CONSTRUCTION PLAN

FOR

MAGNOLIA OAKS (PHASE 2)

Pasco PIN: 03-26-16-0070-01600-0010

OWNER/DEVELOPER:

PASCO COUNTY HOUSING AUTHORITY 7338 MASSACHUSETTS AVENUE NEW PORT RICHEY, FL 34653

PREPARED BY:

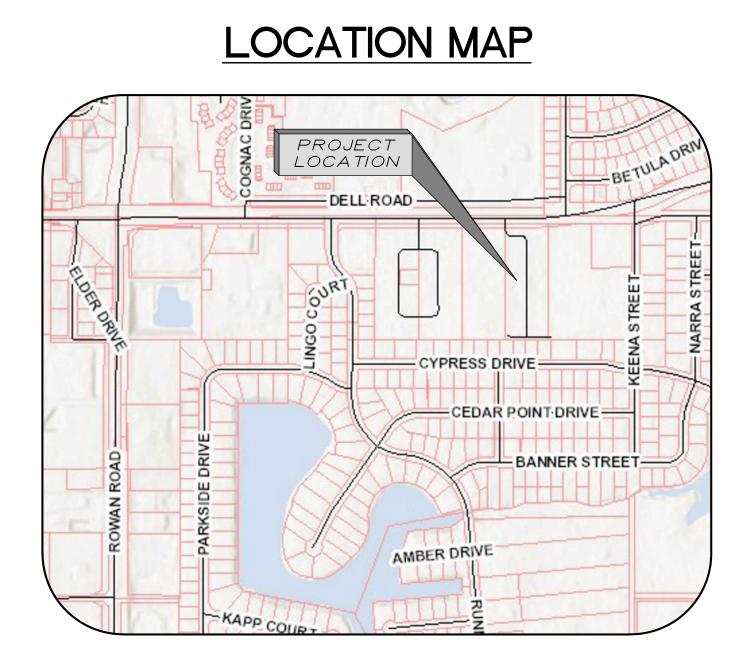


7026 LITTLE ROAD NEW PORT RICHEY, FL 34654 PH: 727-849-8010 FAX: 727-849-8020 C. A. # 00009572 INFO@COASTALDESIGNCONSULTANTS.COM

> PROJECT NUMBER: 23030 DATE: OCTOBER, 2023

> > ENGINEER : PAUL A. MANUEL, P.E.

PROFESSIONAL ENGINEER FLORIDA REGISTRATION NO. 51424



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TECHNICAL SPECIFICATIONS

ALL SITE AND UTILITY WORK PERFORMED ON THIS PROJECT SHALL BE GOVERNED BY APPLIC PROVISIONS OF **PASCO COUNTY** AND THE **PASCO COUNTY UTILITY DEPARTMENT**. THE PRO SHALL BE CONSTRUCTED IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED CONSTRUCTION DRAWINGS & SPECIFICATIONS DESCRIBED HEREIN. AND WITH THE MANUAL OF UNIFORM MININ STANDARDS FOR DESIGN, CONSTRUCTION, AND MAINTENANCE OF STREETS AND HIGHWAYS, ST OF FLORIDA. IN THE EVENT THAT ANY ITEM IS NOT ADDRESSED IN THESE PLANS OR THE SPECIFICATIONS, THEN THE APPLICABLE PROVISIONS OF THE "FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", CURREN EDITION AND SUPPLEMENTS THERETO SHALL APPLY. EXCEPT AS OTHERWISE SPECIFICALLY APPROVED BY THE OWNER AND / OR THE ENGINEER OF RECORD.

THE FOLLOWING ARE INCORPORATED HEREIN BY REFERENCE:

- PASCO COUNTY ENGINEERING SERVICES DEPARTMENT "TESTING SPECIFICATIONS FOR CONSTRU OF ROADS, STORM DRAINAGE AND UTILITIES" 2006
- CITY OF NEW PORT RICHEY PUBLIC WORKS CONSTRUCTION MANAGEMENT "CITY CONSTRUCTION STANDARDS & SPECIFICATIONS". 2019
- FLORIDA DEPARTMENT OF TRANSPORTATION "MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESI CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS" 2018
- FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" 2023
- FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD PLANS" 2023-2024
- FEDERAL HIGHWAY ADMINISTRATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)" NOTE: ON-SITE WORK TO BE IN ACCORDANCE WITH REQUIREMENTS OF DISTRICT SCHOOL BOARD OF PASCO COUNTY.

GENERAL CONSTRUCTION NOTES

- ELEVATIONS SHALL BE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD8 ALL SURVEY DATA WAS PROVIDED BY PASCO COUNTY SURVEY DEPARTMENT
- CONTRACTOR IS TO REFERENCE AND INCLUDE ALL RECOMMENDATIONS INCLUDED WITHIN, THE PRO GEOTECHNICAL REPORT AS PROVIDED BY TERRACON AND DATED MAY 19, 2017 AND ALL SUBSEQ ADDENDUMS.
- LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURE ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION C THESE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES. STRUCTURES AND OTHER FEATURES AFFECTING THIS WORK. PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL CHECK THE PLANS FOR CONFLICTS AND DISCREPANCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE OWNER'S ENGINEER OF ANY CONFLICTS OR DISCREPANCIES BEFORE PERFORMING ANY WORK IN THE AFFECTED AREA.
- THE CONTRACTOR IS CAUTIONED THAT THE LOCATION OF EXISTING UTILITIES. WHETHER OR NOT SHOWN, ARE APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN FIELD LOCATIONS FROM THE RESPECTIVE UTILITY COMPANY 48 HOURS BEFORE BEGINNING WORK. SUNSHINE STATE ONE CALL ------ 1-800-432-4770
- THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES, ABOVE BELOW GROUND THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED BY THE CONTRACTO
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PERMIT AND INSPECTION REQUIREMENTS OF THE VARIOUS GOVERNMENTAL AGENCIES. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION AND SCHEDULE INSPECTIONS ACCORDING TO AGEN INSTRUCTION.
- EARTHWORK CONSTRUCTION:
- A. ALL EARTHWORK CONSTRUCTION SHALL BE PAID FOR BY LUMP SUM.
- ALL FILL SUITABLE FOR CONSTRUCTION EITHER REQUIRED OR IN EXCESS TO THE PROJECT IS THE PROPERTY OF THE OWNER AND SHALL BE UTILIZED FOR THE PROJECT OR STOCK ON-SITE AS DIRECTED BY THE OWNER AND / OR ENGINEER OF RECORD.
- THE CONTRACTOR SHALL SUBMIT FOR APPROVAL TO THE OWNER'S ENGINEER, SHOP DRAWINGS PRECAST AND MANUFACTURED ITEMS WHICH ARE FOR THIS SITE. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXP ALL SHOP DRAWINGS ARE TO BE REVIEWED AND APPROVED BY THE CONTRACTOR PRIOR TO SUB TO THE OWNER'S ENGINEER.
- AT LEAST FIVE (5) WORKING DAYS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY ENGINEER AND APPROPRIATE AGENCIES AND SUPPLY THEM WITH ALL REQUIRED SHOP DRAWINGS. CONTRACTOR'S NAME, STARTING DATE, PROJECTED SCHEDULE AND OTHER INFORMATION AS REQU ANY WORK PERFORMED PRIOR TO NOTIFYING THE ENGINEER. OR WITHOUT AGENCY INSPECTOR F MAY BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- BACKFILL MATERIAL SHALL BE SOLIDLY TAMPED AROUND PIPES IN 6" LAYERS UP TO A LEVEL (LEAST ONE FOOT ABOVE THE TOP OF THE PIPE. IN AREAS TO BE PAVED, BACKFILL SHALL BE COMPACTED TO 100% MAXIMUM DENSITY AS DETERMINED BY A.A.S.H.T.O. T-99.
- SITE WORK CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF AT LEAST 3,000 P.S.I. IN 28 UNLESS OTHERWISE NOTED
- ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A COND EQUAL TO OR BETTER THAN EXISTING CONDITIONS UNLESS SPECIFICALLY EXEMPTED BY THE PLA ADDITIONAL COSTS ARE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION IS ALLOWED.
- ALL DISTURBED AREAS ARE TO BE SODDED TO FDOT STANDARDS UNLESS OTHERWISE NOTED. ARE CALLED OUT IN THE PLANS TO BE SEEDED AND MULCHED, THE FOLLOWING SHALL APPLY:
- A. ALL AREAS WITH SLOPES EQUAL TO OR GREATER THAN 4:1 OR WITHIN 2' OF ANY PAVEME CURB SHALL BE SODDED. ALL SODDED SLOPES STEEPER THAN 4:1 SHALL BE INSTALLED SOD PEGS.
- B. ALL AREAS WITHIN 5' OF ANY DRAINAGE STRUCTURE OR WITHIN CITY, COUNTY AND/OR FDC R.O.W. SHALL BE SODDED. ALL SODDED AND SEEDED / MULCHED AREAS SHALL BE MAINTAINED UNTIL A SATISFACTORY STAT GRASS, ACCEPTABLE TO THE REGULATORY AGENCY AND ENGINEER OF RECORD. ANY WASHOUTS,
- REGRADING, RESEEDING AND GRASSING WORK, AND OTHER EROSION WORK REQUIRED, WILL BE PERFORMED BY THE CONTRACTOR, UNTIL THE SYSTEM IS ACCEPTED FOR MAINTENANCE BY THE REGULATORY AGENCY AND ENGINEER OF RECORD.
- ALL SODDING, SEEDING AND MULCHING SHALL INCLUDE WATERING AND FERTILIZATION. THE CONTR SHALL BE RESPONSIBLE FOR MAINTAINING THESE AREAS UNTIL THE PROJECT IS COMPLETED AND ACCEPTED BY REGULATORY AGENCIES, THE ENGINEER OF RECORD, AND THE OWNER.
- . THE CONTRACTOR SHALL MAINTAIN A COPY OF THE APPROVED PLANS AND PERMITS AT THE CONSTRUCTION SITE.
- 7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY AT ALL TIMES TO CONTROL FUGITIVE DUST FROI CONSTRUCTION SITE. THE CONTRACTOR IS ADVISED THAT THE USE OF A WATER TRUCK OR TRAIL MAY BE REQUIRED FOR THE PURPOSE OF KEEPING THE SOIL MOIST TO CONTROL FUGITIVE DUST
- 18. IF DURING CONSTRUCTION ACTIVITIES ANY EVIDENCE OF HISTORIC RESOURCES, INCLUDING BUT N LIMITED TO ABORIGINAL OR HISTORIC POTTERY, PREHISTORIC STONE TOOLS, BONE OR SHELL TOO HISTORIC TRASH PITS, OR HISTORIC BUILDING FOUNDATIONS, ARE DISCOVERED, WORK SHALL CO AN IMMEDIATE STOP AND THE FLORIDA DEPARTMENT OF HISTORICAL RESOURCES (STATE HISTORIC PRESERVATION OFFICER) AND THE LOCAL GOVERNING CITY AND/OR COUNTY DEPARTMENT SHALL NOTIFIED WITHIN TWO WORKING DAYS OF THE RESOURCES FOUND ON SITE.
- DURING THE CONSTRUCTION AND/OR MAINTENANCE OF THIS PROJECT, ALL SAFETY REGULATIONS TO BE ENFORCED BY THE CONTRACTOR. THE CONTRACTOR OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE TRAVELING PUBLIC AND THE SAFETY OF PERSONNEL. LABOR SAFETY REGULATIONS SHALL CONFORM TO THE PROVISIONS SET FORTH BY O.S.H.A.5. IN THE FEDERAL REGISTER OF THE DEPARTMENT OF TRANSPORTATION.
- 20. ALL REQUIRED TEST REPORTS SHALL BE SUPPLIED BY CONTRACTOR UNLESS OTHERWISE DIRECTED BY THE OWNER OR ENGINEER OF RECORD. THE TESTING COMPANY SHALL SUPPLY THE ENGINEER WITH A $\,$ COPY OF ALL COMPACTION TESTS AND ASPHALT TESTING RESULTS. THE TESTING COMPANY SHALL CERTIFY TO THE ENGINEER OF RECORD. IN WRITING THAT ALL TESTING REQUIREMENTS REQUIRED BY THE LOCAL REGULATORY AGENCY AND THE FLORIDA DEPARTMENT OF TRANSPORTATION (F.D.O.T.). FOR THE IMPROVEMENTS AS REQUIRED BY THE ENGINEERING CONSTRUCTION DRAWINGS, HAVE BEEN SATISFIED.
- IF DURING CONSTRUCTION ACTIVITIES ANY EVIDENCE OF THE PRESENCE OF STATE OR FEDERALLY PROTECTED PLANT AND/OR ANIMAL SPECIES IS DISCOVERED, PASCO COUNTY AND APPLICABLE AGENCIES SHALL BE NOTIFIED WITHIN TWO WORKING DAYS OF THE PLANT AND/OR ANIMAL SPECIES FOUND ON THE SITE, ALL WORK IN THE AFFECTED AREA SHALL COME TO AN IMMEDIATE STOP UNTIL ALL PERTINENT PERMITS HAVE BEEN OBTAINED. AGENCY WRITTEN AUTHORIZATION TO COMMENCE ACTIVITIES HAS BEEN GIVEN, OR UNLESS COMPLIANCE WITH STATE AND FEDERAL GUIDELINES CAN BE DEMONSTRATED.

	PAVING, GRADING & DRAINAGE NOTES	GENERAL UTILITY NOTES	WATER SYSTEM NOTES	DIRECTIONAL DRI
CABLE COJECT 1. N	THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND WILL PROVIDE BRACING, SHEETING OR SHORING AS NECESSARY. TRENCHES SHALL BE KEPT DRY WHILE PIPE AND APPURTENANCES ARE BEING PLACED. DE-WATERING SHALL BE USED AS REQUIRED.	DEPARTMENT.	 ALL WATER MAINS SHALL HAVE A MINIMUM OF 36 INCHES OF COVER BASED ON FINAL GRADING. ALL WATER SYSTEM WORK SHALL CONFORM WITH LOCAL REGULATORY STANDARDS AND SPECIFICATIONS. 	1. PIPE SHALL BE HIGH DENSITY POLYI JOINED AND INSTALLED IN ACCORD. SPECIFICATIONS AND THE SPECIFIC
IUM TATE 2.	THE CONTRACTOR(S) PERFORMING TRENCH EXCAVATION ON THIS CONTRACT, IN EXCESS OF FIVE (5) FEET IN DEPTH, SHALL COMPLY WITH THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION'S (OSHA) TRENCH	ALL UTILITY LINES SHALL HAVE AN "EARLY WARNING" PROTECTION TAPE INSTALLED CONTINUOUSLY ALONG THE PIPE ALIGNMENT.	 ALL DUCTILE IRON PIPE SHALL BE CLASS 50 IN ACCORDANCE WITH ANSI/AWWA C150/A21.50 AND PIPE SHALL RECEIVE EXTERIOR BITUMINOUS COATING AND SHALL BE CEMENT MORTAR LINED, STANDARD THICKNESS, IN ACCORDANCE WITH ANSI/AWWA C104/A21.4. 	2. PRE-EXCAVATE PIPE ENTRY AND RE ENTRY OF THE PIPE WITHOUT STRE ALLOW FREE MOVEMENT INTO THE
INT	EXCAVATION SAFETY STANDARDS, 29 CODE OF FEDERAL REGULATIONS (C.F.R.), SECTION 1926.650, SUBPART P, INCLUDING ALL SUBSEQUENT REVISIONS OR UPDATES TO THESE STANDARDS AS ADOPTED BY THE DEPARTMENT OF LABOR AND EMPLOYMENT SECURITY (DLES).		4. ALL FITTINGS LARGER THAN 3" SHALL BE DUCTILE IRON IN ACCORDANCE WITH A.W.W.A. C-110 WITH A PRESSURE RATING OF 350 P.S.I. JOINTS SHALL BE MECHANICAL JOINTS IN ACCORDANCE WITH AWWA C-111. FITTINGS SHALL	CAREFULLY GUIDE PIPE IN SUCH MA DAMAGE TO THE PIPE.
3.	IT MAY BE NECESSARY TO FIELD ADJUST PAVEMENT ELEVATIONS TO PRESERVE THE ROOT SYSTEMS OF TREES SHOWN TO BE SAVED. THE CONTRACTOR IS TO COORDINATE WITH OWNER'S ENGINEER PRIOR TO ANY ELEVATION CHANGES.	 (BLUE TAPE) FOR WATER LINES, THE TAPE SHALL BE CONTINUOUSLY MARKED "CAUTION WATER LINE BELOW". , (GREEN TAPE) FOR FORCE MAINS, THE TAPE SHALL BE CONTINUOUSLY MARKED "CAUTION, SEWAGE FORCE MAIN BELOW". (GREEN TAPE) FOR SANITARY SEWER LINES, THE TAPE SHALL BE CONTINUOUSLY MARKED "CAUTION, SEWAGE MAIN BELOW". 	BE CEMENT MORTAR LINED AND COATED IN ACCORDANCE WITH AWWA C-104. 5. ALL PVC POTABLE WATER MAINS 4" THROUGH 12" SHALL BE AWWA C-900 (CLASS 150), DR 18 PVC, AND 14" THROUGH 24" AWWA C-905 (CLASS 165). DR-25 PVC: WITH AWWA APPROVED DUCTILE IRON MECHANICAL JOINT	3. IF UNEXPECTED SUBSURFACE CONI BORE, THE PROCEDURE SHALL BE S CONTINUE UNTIL APPROVAL HAS BE
RUCTION 4.	THE CONTRACTOR IS TO PROVIDE A 1/2" BITUMINOUS EXPANSION JOINT MATERIAL WITH SEALER, AT ABUTMENT OF CONCRETE AND ANY STRUCTURE.	• (PURPLE TAPE) FOR RECLAIMED WATER LINES, THE TAPE SHALL BE CONTINUOUSLY MARKED "CAUTION RECLAIMED WATER LINE BELOW"	FITTINGS. THE PIPE SHALL BE SOLID BLUÉ WITH WHITE OR BLACK LETTERING. 6. ALL PVC FIRE MAINS 4" THROUGH 12" SHALL BE AWWA C-900 (CLASS 200), DR 14 PVC WITH AWWA APPROVED	 EVERY EFFORT SHALL BE MADE TO DEEP ENOUGH TO AVOID CONFLICT: SHALLOWER INSTALLATIONS ARE SI THE COUNTY OR NECESSITATED BY
SIGN, 6	ALL PAVEMENT MARKINGS SHALL BE MADE WITH THERMOPLASTIC, EXCEPT PARKING STALL DELINEATIONS, WHICH MAY BE TRAFFIC RATED PAINT. PARKING STALL DELINEATION SHALL BE 6" MIN. WIDTH.	3. THE CONTRACTOR IS CAUTIONED THAT THE LOCATION OF EXISTING UTILITIES, WHEN SHOWN, ARE APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ACTUAL FIELD LOCATIONS FROM THE RESPECTIVE UTILITY COMPANY 48 HOURS BEFORE BEGINNING ANY WORK. SUNSHINE STATE CALL – 1–800–432–4770	DUCTILE IRON MECHANICAL JOINT FITTINGS. THE PIPE SHALL BE SOLID BLUE WITH WHITE OR BLACK LETTERING. 7. ALL PVC PIPE AND FITTINGS 3" AND SMALLER SHALL BE SCHEDULE 40 P.V.CWITH SOLVENT WELDED SLEEVE TYPE JOINTS.	CONTRACTOR SHALL MAKE SUCH AN TO THE COUNTY.
7.	ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE CLASS III (A.S.T.M. C-76) UNLESS OTHERWISE NOTED ON PLANS. P.V.C. STORM PIPE, 12" AND SMALLER SHALL CONFORM TO A.W.W.A. C-900, CLASS 150 STANDARDS UNLESS	4. ALL UTILITY CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DOCUMENTS REFERENCED HEREIN. ANY METHODS, PROCEDURE, STANDARDS, EQUIPMENT, OR MATERIALS WHICH ARE NOT COVERED OR SPECIFIED BY THE APPLICABLE PROVISIONS OF THE GOVERNING & MUNICIPALITY WATER/SEWER STANDARDS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE F.D.O.T. STANDARD SPECIFICATIONS FOR DOLD NOT DOLD AND SPECIFICATIONS FOR DOLD AND SPECIFICATIONS FOR DOLD AND ADDRESS AND AD	AWWA C509	5. THE PIPE SHALL BE INSTALLED IN A UPHEAVAL, SETTLEMENT, CRACKING SURFACE FACILITIES.
8.	OTHERWISE NOTED.	5. ALL UTILITIES WILL BE INSTALLED UNDERGROUND.	 ALL FIRE HYDRANTS SHALL MEET THE REQUIREMENTS OF AWWA C502 AND SHALL BE APPROVED BY THE LOCAL UTILITY AND FIRE MARSHAL. 	 THE SYSTEM MUST BE REMOTELY S MONITORING OF TUNNEL DEPTH AN TO CONTROL THE DEPTH AND DIREC ACCURATE TO A WINDOW OF +/- 2 IN
2009 9.	SHOWN, WHERE MITERED END SECTION OF PIPE, SHALL BE INCLUDED IN THE UNIT COST OF THE MITERED END. ALL DIMENSIONS SHOWN WHERE CURB IS APPLICABLE ARE TO THE EDGE OF PAVEMENT.	LOCAL, STATE AND FEDERAL REGULATIONS.		 EQUIPMENT SHALL BE FITTED WITH OF DETECTING AN ELECTRIC CURRE
10	LOADINGS.	WATER/SEWER CLEARANCE REQUIREMENTS:	11. MATERIALS AND CONSTRUCTION METHODS FOR WATER DISTRIBUTION SYSTEM SHALL BE IN ACCORDANCE WITH THE LOCAL REGULATORY AGENCY CODES, PLANS, AND SPECIFICATIONS FOR CONSTRUCTION, LATEST REVISION THEREOF, AND SUPPLEMENTAL SPECIFICATIONS THERETO. APPROVAL AND CONSTRUCTION OF ALL POTABLE WATER SERVICE MAIN EXTENSIONS AND CONNECTIONS MUST BE COORDINATED THROUGH THE LOCAL REGULATORY AGENCY.	
11 1 <u>88).</u> 12	. SOD SHALL BE STAKED AS NECESSARY TO PREVENT DISPLACEMENT.	Sanitary sewers, storm sewers and structures, reclaimed water mains, or force mains crossing water mains shall be Laid to provide a minimum vertical distance of 12 inches between the invert of the upper pipe and the crown of the Lower pipe. The crossing shall be arranged so that the sewer joints and water joints will be equidistant from the Point of crossing with no less than 10 feet between any two joints. Where the minimum 12 inch separation cannot be	WATER SYSTEM TESTING AND INSPECTION REQUIREMENTS	 ALL NON-METALLIC PIPE SHALL BE I COPPER LOCATING WIRES ATTACHE SHALL BE ATTACHED USING MINIMU 4 TO 5 FEET SPACING.
13 ROJECT QUENT	LAND SURVEYOR. THE RECORD DRAWINGS SHALL SHOW FINAL GRADES, INVERTS AND LOCATIONS OF ALL STORMWATER FACILITIES INCLUDING THE STORMWATER POND, DRAINAGE STRUCTURES, BERMS & SWALES. THE	I. THE PROPOSED PIPE SHALL BE CONSTRUCTED OF PRESSURE RATED PVC PIPE, (MEETING THE AWWA C-900 OR C-905	 ALL COMPONENTS OF THE WATER SYSTEM, INCLUDING FITTINGS, HYDRANTS, CONNECTIONS, AND VALVES SHALL REMAIN UNCOVERED UNTIL PROPERLY PRESSURE TESTED AND ACCEPTED BY THE OWNER'S ENGINEER. PRESSURE TESTS TO BE IN ACCORDANCE WITH WATER DEPARTMENT SPECIFICATIONS. 	9. IN THE CASE OF A PULL BACK WHER CONTRACTOR SHALL INJECT AN API SPACE. THIS ACTION WILL BE IN COI BORE TOOL TO INSURE AGAINST CC
URES ¹⁴	CONTRACTOR SHALL PROVIDE TEN COPIES OF THE CERTIFIED RECORD DRAWINGS TO THE ENGINEER FOR THE PURPOSE OF CERTIFYING THE STORMWATER MANAGEMENT SYSTEM. . ALL DRAINAGE PIPE SHALL BE CUT FLUSH WITH THE INTERIOR WALLS OF EACH DRAINAGE STRUCTURE AND	SPECIFICATION) AND SHALL BE PRESSURE TESTED AT 150 PSI TO ASSURE TIGHTNESS PRIOR TO BACKFILLING. II. EITHER THE WATER MAIN OR THE OTHER PIPE SHALL BE ENCASED IN A WATERTIGHT CARRIER PIPE. THE CARRIER PIPE SHALL BE OF MATERIALS APPROVED BY THE F.D.E.P. FOR USE IN WATER MAIN CONSTRUCTION.	CONTRACTOR TO NOTIFY OWNER'S ENGINEER AND WATER DEPARTMENT INSPECTORS 48 HOURS IN ADVANCE OF PERFORMING TESTS. 2. CONTRACTOR TO PERFORM CHLORINATION, BACTERIOLOGICAL SAMPLING SHALL BE BY THE LOCAL	10. CONTRACTOR SHALL PERFORM ALL FEET FROM WETLAND LIMITS.
OF OF ALL	GROUTED TO A SMOOTH FINISH. PAVING, GRADING & DRAINAGE TESTING & INSPECTION	III. USE WELDED, FUSED OR OTHERWISE RESTRAINED JOINTS FOR EITHER THE WATER MAIN OR OTHER PIPELINE.	PUBLIC HEALTH UNIT AND/OR LOCAL UTILITY. CONTRACTOR SHALL OBTAIN CLEARANCE OF DOMESTIC WATER SYSTEM. COPIES OF ALL BACTERIOLOGICAL TESTS TO BE SUBMITTED TO OWNER'S ENGINEER.	11. EROSION CONTROL MEASURES SHA IMPACTS. MEASURES SHALL INCLUE BARRIERS, HAY BALES AND SOD.
1	THE STORM DRAINAGE PIPING AND FILTRATION SYSTEM SHALL BE SUBJECT TO A VISUAL INSPECTION	 IV. USE OF PIPE OR CASING PIPE, HAVING HIGH IMPACT STRENGTH (I.E. HAVING AN IMPACT STRENGTH AT LEAST EQUAL TO THAT OF 0.25-INCH-THICK DUCTILE IRON PIPE) V. UNDERGROUND WATER MAINS SHALL BE A HORIZONTAL DISTANCE OF AT LEAST THREE (3) FEET, AND PREFERABLY TEN 	 A HYDROSTATIC TEST CONSISTING OF PRESSURE TEST AND LEAKAGE TEST SHALL BE CONDUCTED ON ALL NEWLY-INSTALLED WATER DISTRIBUTION SYSTEM PRESSURE PIPES AND APPURTENANCES. THESE TESTS SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF A.W.W.A. C600 FOR DUCTILE IRON PIPES AND C605 FOR PVC PIPES. 	12. A VAC TRUCK SHALL BE ONSITE DUE REMOVE ANY DRILLING MUD THAT E
R ^{'.}	BY THE OWNER'S ENGINEER PRIOR TO THE PLACEMENT OF BACKFILL. THE CONTRACTOR IS TO NOTIFY THE ENGINEER 48 HOURS IN ADVANCE TO SCHEDULE AN INSPECTION.	(10) FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER.	 ALL SAMPLING IS TO BE PERFORMED BY THE CONTRACTOR AND SUBMITTED TO A DHS CERTIFIED LAB FOR TESTING. 	13. SHOULD ANY FRAC OUTS OCCUR W RIVER AND OR SURFACE WATERS, A DRILLING MUD SHALL BE CONTAINEI
ACTUAL	THE CONTRACTOR SHALL MAINTAIN THE STORM DRAINAGE SYSTEMS UNTIL FINAL ACCEPTANCE OF THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE APPLICABLE TESTING WITH THE TESTING COMPANY. UPON COMPLETION OF THE WORK, THE TESTING COMPANY MUST SUBMIT CERTIFICATIONS	VI. UNDERGROUND WATER MAINS SHALL BE A HORIZONTAL DISTANCE OF AT LEAST SIX (6) FEET, AND PREFERABLY TEN (10) FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE—TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62—610, F.A.C. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY—TYPE SANITARY SEWERS SHALL BE REDUCED TO THREE FEET WHERE THE BOTTOM OF	 ALL NEWLY-INSTALLED WATER DISTRIBUTION SYSTEMS SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA C651 - DISINFECTING WATER MAINS. 	RIVER AND OR SURFACE WATER.
OR OR.	TO THE OWNER'S ENGINEER STATING THAT TESTING REQUIREMENTS HAVE BEEN MET. CLEARING AND GRUBBING NOTES CLEARING AND GRUBBING FOR PURPOSES OF THE PROJECT DESCRIBED HEREIN SHALL BE IN ACCORDANCE WITH SECTION 110	THE WATER MAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER. VII. UNDERGROUND WATER MAINS SHALL BE A HORIZONTAL DISTANCE OF AT LEAST TEN (10) FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL	SANITARY SEWER NOTES	 ALL DIMENSIONS SHALL BE IN FEE ROADS OR OTHER PERMANENT ST BE TAKEN OFF THE CENTERLINE O PERMANENT MARKER OR REFEREI
ON L ENCY 2.	ALL VEGETATION, STRUCTURES, MATERIALS DEBRIS AND FILL UNSUITABLE FOR CONSTRUCTION AND OF NO SALVAGE	VERTICAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS,	 ALL SANITARY SEWER MAINS & LATERAL SHALL HAVE A MINIMUM OF 36" OF COVER BASED ON FINAL GRADING. PRIOR TO COMMENCING WORK WHICH REQUIRES CONNECTING NEW WORK TO EXISTING LINES OR 	 AS-BUILTS SHALL BE SUBMITTED, S SURVEYOR REGISTERED IN THE ST
3.	VALUE TO THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY THE CONTRACTOR. EXISTING PAVEMENT SHALL BE REMOVED AND DISPOSED OF BY CONTRACTOR AT THEIR EXPENSE. THE CONTRACTOR	I. UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX (6) INCHES, AND PREFERABLY TWELVE (12) INCHES, ABOVE OR AT LEAST TWELVE (12) INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE	CONNECTION FORM AND NOTH FOWNER'S ENGINEER OF ANY CONFERENCE OF DISCREFANCES.	REUSE 1. WATER LINES SHALL BE MEASURE
ст 4.	MAY (AT HIS OPTION) USE EXISTING LIMEROCK BASE MATERIAL AS A STABILIZING ADDITIVE TO THE SUBBASE. AT NO TIME WILL EXISTING BASE MATERIAL BE INCORPORATED WITHIN THE NEW BASE. PRIOR TO ANY SITE CLEARING, ALL TREES SHOWN TO REMAIN ON THE CONSTRUCTION PLANS SHALL BE	WATER MAIN ABOVE THE OTHER PIPELINE.	DEPTHS OF 0-12 FEET, SDR26 FOR DEPTHS OF 12-18 FEET AND DUCTILE IRON FOR DEPTHS BELOW 18 FEET. (SEE NOTE 7 BELOW) WITH PVC SLIP JOINT FITTING IN ACCORDANCE WITH ASTM SPECIFICATIONS SECTION D2321 AND SHALL BE SOLID GREEN PIPE WITH WHITE LETTERS. PIPES INSTALLED AT DEPTHS OF	2. FITTINGS, VALVES, TAPS AND OTH MEASURED USING DESCRIPTIVE N
KPILED	PROTECTED IN ACCORDANCE WITH THE LOCAL REGULATORY AGENCY'S TREE ORDINANCE AND DETAILS CONTAINED IN THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THESE TREES IN GOOD CONDITION. NO TREES SHOWN TO REMAIN SHALL BE REMOVED WITHOUT WRITTEN APPROVAL FROM THE OWNER.	STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST TWELVE (12) INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE. III. AT THE UTILITY CROSSINGS DESCRIBED IN PARAGRAPHS (A) AND (B) ABOVE. ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE	 LESS THAN 4' SHALL BE AWWA C-900 (CLASS 100), DR-25 PVC OR C-905 (CLASS 165), PVC DR-25. ALL DUCTILE IRON PIPE SHALL BE CLASS 50 IN ACCORDANCE WITH ANSI/AWWA C150/A21.50 AND PIPE SHALL RECEIVE EXTERIOR BITUMINOUS COATING AND SHALL BE CEMENT MORTAR LINED, STANDARD THICKNESS, IN ACCORDANCE WITH ANSI/AWWA C104/A21.4. 	 INDICATE DEPTH OF COVER AT ALL HAS LESS THAN 24" OF COVER OR INDICATE ALL LOCATIONS WHERE IN
ON ALL 5. ENSE. BMITTAL	WITH THESE PLANS, OR AS DIRECTED BY THE OWNER'S ENGINEER OR OWNER'S SOIL TESTING COMPANY. DELETERIOUS MATERIAL IS TO BE REMOVED FROM THE SITE OR AS OTHERWISE DIRECTED BY THE OWNER.	CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATÉR MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINES	 ALL FITTINGS LARGER THAN 3" SHALL BE DUCTILE IRON IN ACCORDANCE WITH AWWA C-110 WITH A PRESSURE RATING OF 350 P.S.I. JOINTS SHALL BE MECHANICAL JOINTS IN ACCORDANCE WITH AWWA 	HORIZONTAL CLEARANCE OF WATI MAINTAINED. DETAIL THE INSTALLA 5. INCLUDE THE SIZE. SDR. CLASS AN
ымп Ас	EXCAVATED AREAS ARE TO BE BACKFILLED WITH APPROVED MATERIALS AND COMPACTED AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL CLEAR AND GRUB, ONLY THOSE PORTIONS OF THE SITE, AS NECESSARY FOR	CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AND AT LEAST SIX (6) FEET FROM ALL JOINTS IN GRAVITY OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.	 C-111. FITTINGS SHALL BE CEMENT MORTAR LINED AND COATED IN ACCORDANCE WITH AWWA C-104. ALL PVC FORCE MAINS 4" THROUGH 12" SHALL BE AWWA C-900 (CLASS 100), DR-25 PVC AND 14" THROUGH 24" SHALL BE AWWA C-905 (CLASS 125), DR-25; WITH AWWA APPROVED DUCTILE IRON MECHANICAL JOINT 	FROM PLANS.6. MEASURE WATER MAIN STUBS FROM
S, THE UIRED. PRESENT ^{7.}	CONSTRUCTION. DISTURBED AREAS WILL BE SODDED FOLLOWING CONSTRUCTION. THE TOP 4" TO 6" OF GROUND REMOVED DURING CLEARING AND GRUBBING SHALL BE STOCKPILED AT A SITE		FITTINGS. THE PIPE SHALL BE SOLID GREEN WITH WHITE OR BLACK LETTERING. 7. ALL PVC PIPE AND FITTINGS 3" AND SMALLER SHALL BE SCHEDULE 40 PVC WITH SOLVENT WELDED	FROM CENTERLINE OF ROAD
8. DF AT		FEET FROM ANY EXISTING OR PROPOSED WATER MAIN. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE. IN CASES WHERE IT IS NOT PRACTICAL TO MAINTAIN A 6 FT. SEPARATION. THE FOLLOWING METHODS OF PROTECTION SHALL BE UTILIZED: I. THE PROPOSED PIPE SHALL BE CONSTRUCTED OF PRESSURE RATED PVC PIPE ,(MEETING THE AWWA C-900 OR C-905	SLEEVE JOINTS. 8. ALL GATE VALVES 3" OR LARGER SHALL BE RESILIENT SEAT OR RESILIENT WEDGE MEETING THE REQUIREMENTS OF AWWA C509	 WATER LINES SHALL BE MEASURE FITTINGS, VALVES, HYDRANTS, TAR
	THE CONTRACTOR IS TO OBTAIN ALL NECESSARY PERMITS FOR REMOVING ANY EXISTING STRUCTURES.	SPECIFICATION) AND SHALL BE PRESSURE TESTED AT 150 PSI TO ASSURE TIGHTNESS PRIOR TO BACK FILLING.	9. ALL SANITARY SEWER COVERS SHALL BE TRAFFIC RATED FOR H-20 LOADING.	SHALL BE MEASURED USING DESC LOCATION. 3. INDICATE DEPTH OF COVER AT ALL
B DAYS, 10	THE CONTRACTOR WILL BE RESPONSIBLE FOR MAKING A VISUAL INSPECTION OF THE SITE AND WILL BE RESPONSIBLE FOR THE DEMOLITION AND REMOVAL OF ALL UNDERGROUND AND ABOVE GROUND STRUCTURES THAT WILL NOT BE INCORPORATED WITH THE NEW FACILITIES. SHOULD ANY DISCREPANCIES EXIST WITH THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING THE OWNER AND REQUESTING A CLARIFICATION OF THE PLANS	STALE DE OF MATERIALES AFRONED DE THE F.D.E.F. FOR OSE IN MATERIA MARK CONSTRUCTION.	 PIPE LENGTHS SHOWN ARE APPROXIMATE AND SHOWN TO THE EDGE OF THE MANHOLES. MATERIALS AND CONSTRUCTION METHODS FOR SEWER DISTRIBUTION SYSTEM SHALL BE IN ACCORDANCE WITH THE LOCAL REGULATORY AGENCY CODES. PLANS, AND SPECIFICATIONS FOR 	HAS LESS THAN 24" OF COVER OR4. INDICATE ALL LOCATIONS WHERE IN
ANS. 5 TO BE ₁	PRIOR TO DEMOLITION. . NO ON-SITE BURNING SHALL BE ALLOWED WITHOUT PRIOR APPROVAL FROM THE LOCAL FIRE MARSHALL.	IV. USE OF PIPE, OR CASING PIPE, HAVING HIGH IMPACT STRENGTH (I.E. HAVING AN IMPACT STRENGTH AT LEAST EQUAL TO THAT OF 0.25-INCH-THICK DUCTILE IRON PIPE)	CONSTRUCTION, LATEST REVISION THEREOF, AND SUPPLEMENTAL SPECIFICATIONS THERETO. APPROVAL AND CONSTRUCTION OF ALL SANITARY SEWER SERVICE MAIN EXTENSIONS AND CONNECTIONS MUST BE COORDINATED THROUGH THE LOCAL REGULATORY AGENCY.	HORIZONTAL CLEARANCE OF WAT MAINTAINED. DETAIL THE INSTALLA 5. INDICATE LOCATIONS AND TYPES (
REAS	EROSION CONTROL NOTES	<u>C. SEPARATION BETWEEN WATER MAINS AND SANITARY OR STORM SEWER MAINS:</u> NO WATER MAIN SHALL PASS THROUGH, OR COME INTO CONTACT WITH, ANY PART OF A SANITARY SEWER MANHOLE.	SANITARY SEWER TESTING & INSPECTION REQUIREMENTS	POINTS. 6. INCLUDE THE SIZE, SDR, CLASS AN FROM PLANS.
ENT OR WITH	TRAPS SUCH AS SECURED HAY BALES, SOD, STONE, ETC., WHICH SHALL BE MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS.	A. WATER MAIN SHALL NOT BE CONSTRUCTED OR ALTERED TO PASS THROUGH, OR COME INTO CONTACT WITH, ANY PART OF A STORM SEWER MANHOLE OR INLET STRUCTURE. WHERE IT IS NOT TECHNICALLY FEASIBLE OR ECONOMICALLY SENSIBLE TO COMPLY WITH THIS REQUIREMENT THE WATER MAIN SHALL BE CONSTRUCTED WITH A CONFLICT MANHOLE AS FOLLOWS:	1. ALL GRAVITY SEWER PIPING SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE OWNER'S ENGINEER. CONTRACTOR TO NOTIFY THE ENGINEER 48 HOURS IN ADVANCE TO SCHEDULE INSPECTION.	 MEASURE WATER MAIN STUBS FRO FROM CENTERLINE OF ROAD.
2. DOT 3	ALL EROSION AND SILTATION CONTROL METHODS SHALL BE IMPLEMENTED PRIOR TO THE START OF CONSTRUCTION AND MAINTAINED UNTIL CONSTRUCTION IS COMPLETE. CONTRACTOR IS TO PROVIDE EROSION CONTROL/SEDIMENTATION BARRIER (HAY BALES OR SILTATION CURTAIN) TO PREVENT	I. EACH WATER MAIN PASSING THROUGH A CONFLICT MANHOLE SHALL HAVE A FLEXIBLE, WATERTIGHT JOINT ON EACH SIDE OF THE MANHOLE TO ACCOMMODATE DIFFERENTIAL SETTLING BETWEEN THE MAIN AND THE MANHOLE.	 CONTRACTOR SHALL PERFORM AN INFILTRATION/EXFILTRATION TEST ON ALL GRAVITY SEWERS IN ACCORDANCE WITH THE REGULATION AGENCY HAVING JURISDICTION. SAID TESTS ARE TO BE CERTIFIED BY THE ENGINEER OF RECORD AND SUBMITTED TO THE REGULATORY AGENCY FOR APPROVAL. COORDINATION AND NOTIFICATION OF ALL PARTIES IS THE CONTRACTOR'S RESPONSIBILITY. 	SEWER 1. SEWER LINES SHALL BE MEASURE
AND OF	SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS, WATERWAYS AND EXISTING WETLANDS. IN ADDITION, THE CONTRACTOR SHALL PLACE STRAW, MULCH OR OTHER SUITABLE MATERIAL ON THE GROUND IN AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO ENTER AND EXIT THE SITE. IF, IN THE OPINION OF THE ENGINEER AND/OR LOCAL AUTHORITIES, EXCESSIVE QUANTITIES OF EARTH ARE TRANSPORTED OFF-SITE EITHER BY NATURAL DRAINAGE OR BY VEHICULAR TRAFFIC, THE CONTRACTOR IS TO REMOVE SAID EARTH TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES.	II. WITHIN EACH CONFLICT MANHOLE, THE WATER MAIN PASSING THROUGH THE MANHOLE SHALL BE INSTALLED IN A WATERTIGHT CASING PIPE HAVING HIGH IMPACT STRENGTH (I.E., HAVING IMPACT STRENGTH AT LEAST EQUAL TO THAT OF 0.25—INCH—THICK DUCTILE IRON PIPE).	 ALL FORCE MAINS SHALL BE SUBJECT TO A HYDROSTATIC PRESSURE TEST IN ACCORDANCE WITH THE REGULATORY AGENCY HAVING JURISDICTION. SAID TESTS ARE TO BE CERTIFIED BY THE ENGINEER OF RECORD AND SUBMITTED TO THE REGULATORY AGENCY FOR APPROVAL. COORDINATION AND NOTIFICATION OF ALL PARTIES IS THE CONTRACTOR'S RESPONSIBILITY. 	 2. FITTINGS, VALVES, MANHOLES, SEI APPURTENANCES SHALL BE MEAS INDICATING THEIR EXACT LOCATIO
	DEWATERING PLAN / NOTES	III. EACH CONFLICT MANHOLE SHALL HAVE AN ACCESS OPENING, AND SHALL BE SIZED, TO ALLOW FOR EASY CLEANING OF THE MANHOLE. N. GRATINGS SHALL BE INSTALLED AT ALL STORM SEWER INLETS UPSTREAM OF EACH CONFLICT MANHOLE TO PREVENT LARGE	NOTFICATION OF ALL FARTIES IS THE CONTRACTOR'S RESPONSIBILITY.	3. INDICATE THE ACTUAL LENGTH OF INSTALLED.
	HE CONTRACTOR SHALL IMPLEMENT THE FOLLOWING GUIDELINES WHEN CONSTRUCTION ACTIVITIES REQUIRE	OBJECTS FROM ENTERING THE MANHOLE. NOTE: WHEN IT IS IMPOSSIBLE TO OBTAIN PROPER HORIZONTAL AND VERTICAL SEPARATIONS AS STIPULATED ABOVE, THE F.D.E.P. MAY ALLOW DEVIATION ON A CASE-BY-CASE BASIS IF SUPPORTED BY DATA FROM THE DESIGN ENGINEER. APPROVAL FOR THE DEVIATION	REUSE SYSTEM TESTING AND INSPECTION REQUIREMENTS	 INDICATE ACTUAL INVERT ELEVATI MANHOLES IF DIFFERENT FROM TH INDICATE DEPTH OF COVER AT ALL
_		MUST BE OBTAINED FROM THE PROJECT ENGINEER AND THE F.D.E.P. PRIOR TO CONSTRUCTION.	1. A HIDROSTATIC TEST CONSISTING OF A PRESSURE TEST AND A LEARAGE TEST SHALL BE CONDUCTED	MAIN HAS LESS THAN 36" OF COVE
OM THE LER ^{2.} ST.	THE PROPOSED DRAINAGE RETENTION AREAS CAN BE USED AS TEMPORARY SETTLING AREAS FOR DEWATERING ACTIVITIES. THE PROPOSED DRAINAGE RETENTION AREA(S) SHALL BE CONSTRUCTED TO A	REUSE SYSTEM NOTES 1. ALL REUSE MAINS SHALL HAVE A MINIMUM OF 36 INCHES OF COVER BASED ON FINAL GRADING.	ON ALL NEWLY-INSTALLED REUSE DISTRIBUTION SYSTEM PRESSURE PIPES AND APPURTENANCES. THES TESTS SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF A.W.W.A. C600 FOR DUCTILE IRON PIPES, C605 FOR PVC PIPES AND SHALL BE PERFORMED IN ACCORDANCE WITH THE GOVERNING WATER	 SHOW BOTTOM, INFLUENT INVERT ACTUAL ELEVATIONS OF BOTTOM
NOT DOLS,	SUFFICIENT SIZE AND DEPTH TO RECEIVE WATER FROM DEWATERING ACTIVITIES. IF AT ANY TIME STAGING OF WATER WITHIN THE RETENTION AREA APPROACHES 6-INCHES OF THE PROPOSED POND TOP-OF-BANK, DEWATERING ACTIVITIES SHALL STOP UNTIL THE RETENTION VOLUME HAS RECOVERED.		DEPARTMENT SPECIFICATIONS. 2. THE CONTRACTOR SHALL NOTIFY AND SCHEDULE THE ATTENDANCE OF THE OWNER'S ENGINEER AND THE GOVERNING WATER DEPARTMENT'S INSPECTORS DURING THE PRESSURE TESTS.	 ELEVATIONS OF LIQUID LEVEL SEN PUMPS ON (THIRD IF PROVIDED), A
IC 3. BE		3. ALL FITTINGS LARGER THAN 3" SHALL BE DUCTILE IRON IN ACCORDANCE WITH AWWA C-110 WITH A PRESSURE RATING OF 350 P.S.I. JOINTS SHALL BE MECHANICAL JOINTS IN ACCORDANCE WITH AWWA C-111. FITTINGS SHALL BE CEMENT MORTAR LINED AND COATED IN ACCORDANCE WITH AWWA C-104.	 ALL COMPONENTS OF THE REUSE WATER SYSTEM, INCLUDING FITTINGS, CONNECTIONS AND VALVES SHALL REMAIN UNCOVERED UNTIL PROPERLY PRESSURE TESTED AND ACCEPTED BY THE OWNER'S ENGINEER. 	4. SHOW ALL WETWELL AND VALVE V WEATHERPROOF SCHEMATIC WIRI AFFIXED TO THE INTERIOR OF THE
4. S ARE	WATER DISCHARGE FROM SETTLING AREAS SHALL BE CLEAN AND FREE OF ANY SILT. SILT BARRIERS (I.E. SILT FENCE, HAY BALES, ROCK BAGS OR ANY COMBINATION NECESSARY TO REMOVE SEDIMENTS PRIOR TO DISCHARGE) SHALL BE INSTALLED AND MAINTAINED UNTIL ALL DEWATERING ACTIVITIES ARE COMPLETE	 ALL PVC REUSE MAINS 4" THROUGH 12" SHALL BE AWWA C-900 (CLASS 150), DR 18 PVC, AND 14" THROUGH 24" AWWA C-905 (CLASS 165), DR-25 PVC; WITH AWWA APPROVED DUCTILE IRON MECHANICAL JOINT FITTINGS. THE PIPE SHALL BE CLASS 150 AND SOLID PURPLE WITH WHITE OR BLACK LETTERING. 		
HIS	DISCHARGE) SHALL BE INSTALLED AND MAINTAINED UNTIL ALL DEWATERING ACTIVITIES ARE COMPLETE.	5. ALL PVC PIPE AND FITTINGS 3" OR SMALLER SHALL BE SCHEDULE 40 PVC WITH SOLVENT WELDED SLEEVE TYPE JOINTS.		

DEWATERING ACTIVITIES SHALL BE CONTAINED WITHIN THE PROJECT AREA AND SHALL BE IN CONFORMANCE WITH THE LATEST NPDES CRITERIA
THE PROPOSED DRAINAGE RETENTION AREAS CAN BE USED AS TEMPORARY SETTLING AREAS FOR
DEWATERING ACTIVITIES. THE PROPOSED DRAINAGE RETENTION AREA(S) SHALL BE CONSTRUCTED TO
SUFFICIENT SIZE AND DEPTH TO RECEIVE WATER FROM DEWATERING ACTIVITIES. IF AT ANY TIME STAG
WATER WITHIN THE RETENTION AREA APPROACHES 6-INCHES OF THE PROPOSED POND TOP-OF-BANK

DEWATERING ACTIVITIES SHALL STOP UNTIL THE RETENTION VOLUME HAS RECOVERED.
SHEET PILE WALLS, SLURRY WALLS, OR OTHER MEANS OF LIMITING THE EXTENT OF THE WATER TABLE DRAWDOWN, BEYOND THE PROJECT AREA, SHALL BE IMPLEMENTED.
WATER DISCHARGE FROM SETTLING AREAS SHALL BE CLEAN AND FREE OF ANY SILT. SILT BARRIERS (I.E. SI

AT NO TIME SHALL DISCHARGE FROM THE DEWATERING ACTIVITIES BE DIRECTED IN A MANNER THAT WOULD IMPACT AN EXISTING WETLAND, LAKE OR RIVER.

DEWATERING ACTIVITIES SHALL BE LIMITED TO TIME PERIODS THAT CONSTRUCTION ACTIVITIES REQUIRED DEWATERING. ALL IMPLEMENTED DEWATERING INFRASTRUCTURE, EQUIPMENT, ETC. SHALL BE REMOVED UPON COMPLETION OF CONSTRUCTION.

6. ALL GATE VALVES 3" OR LARGER SHALL BE RESILIENT SEAT OR RESILIENT WEDGE MEETING THE REQUIREMENTS OF AWWA C-509. MATERIALS AND CONSTRUCTION METHODS FOR REUSE DISTRIBUTION SYSTEM SHALL BE IN ACCORDANCE WITH THE LOCAL REGULATORY

AGENCY CODES, PLANS AND SPECIFICATIONS FOR CONSTRUCTION, LATEST REVISION THEREOF, AND SUPPLEMENTAL SPECIFICATIONS THERETO. APPROVAL AND CONSTRUCTION OF ALL REUSE SERVICE MAIN EXTENSIONS AND CONNECTIONS MUST BE COORDINATED THROUGH THE LOCAL REGULATORY AGENCY.

LLING OPERATIONS

ETHYLENE (HDPE) HANDLED, STORED, ANCE WITH MANUFACTURE'S ICATIONS HEREIN.

- ECEIVING AREAS TO PROVIDE A GRADUAL SS TO THE PIPE OR JOINTS AND TO BORE HOLE AT AN ACCEPTABLE DEPTH. ANNER AS TO AVOID DEFORMATION OF OR
- DITIONS ARE ENCOUNTERED DURING THE OPPED. THE INSTALLATION SHALL NOT EEN GIVEN BY THE ENGINEER.
- MAINTAIN PIPE INSTALLATION TO A DEPTH S AND FRACKING. WHERE DEEPER OR HOWN ON THE PLANS, OR REQUIRED BY EXISTING CONDITIONS. THE ADJUSTMENTS WITHOUT ADDITIONAL COST
- A MANNER THAT DOES NOT CAUSE IG, MOVEMENT OR DISTORTION OF
- STEERABLE AND PERMIT ELECTRONIC ND LOCATION. THE SYSTEM MUST BE ABLE CTION OF THE PIPE AND MUST BE
- NCHES. A PERMANENT ALARM SYSTEM CAPABLE ENT, THE SYSTEM SHALL HAVE AN
- RATOR IF THE DRILL HEAD CONTACTS E INSTALLED WITH 2 INSULATED 10 GAUGE HED AT 10:00 AND 2:00 O'CLOCK. WIRES JM 2" WIDE DUCT TAPE, TAPE SHALL BE AT
- RE THE BORE WILL BE ABANDONED. THE ROVED GROUT INTO THE ANGULAR NJUNCTION WITH THE REMOVAL OF THE OLLAPSE OF THE COVER MATERIAL
- L DIRECTIONAL DRILL WORK AT LEAST 25
- ALL BE IMPLEMENTED TO AVOID WETLAND DE, BUT NOT LIMITED TO; SEDIMENT
- RING ALL DRILLING OPERATIONS TO ESCAPES DRILLING PITS. ITHIN THE LIMITS OF THE WETLANDS,
- ALL OPERATIONS SHALL CEASE AND THE D AND REMOVED FROM THE WETLAND

ED UTILITY AS-BUILTS

- MEASURED OFF THE CENTERLINE OF RUCTURES, IN ONLY ONE DIMENSION CAN F ROAD, THE SECOND SHALL BE OFF A ENCE POINT.
- SIGNED AND SEALED BY A PROFESSIONAL STATE OF FLORIDA. ED OFF CENTERLINES OF PAVEMENT.
- ER WATER APPURTENANCES SHALL BE OTES INDICATING THEIR EXACT LOCATION. LOCATIONS WHERE THE WATER MAIN
- R MORE THAN 48" OF COVER. MINIMUM 18" VERTICAL AND 10 ER AND SEWER LINE WAS NOT
- ATION METHOD. AND TYPE OF MATERIALS IF DIFFERENT
- ROM GATE VALVE TO TERMINAL POINT AND
- ED OFF CENTERLINES OF PAVEMENT. PS AND OTHER WATER APPURTENANCES RIPTIVE NOTES INDICATING THEIR EXACT
- LOCATIONS WHERE THE WATER MAIN
- 10RE THAN 48" OF COVER MINIMUM 18" VERTICAL AND 10 ER AND SEWER LINE WAS NOT
- ATION METHOD. S OF ALL BACTERIOLOGICAL SAMPLING
- ND TYPE OF MATERIALS IF DIFFERENT
- OM GATE VALVE TO TERMINAL POINT AND
- ED OFF CENTERLINES OF PAVEMENT RVICES AND OTHER SEWER
- URED USING DESCRIPTIVE NOTES GRAVITY SEWER AND/OR FORCE MAIN
- ON AND REVISE SLOPES BETWEEN HE PLANS.
- LOCATIONS WHERE THE SEWER FORCE ER OR MORE THAN 48" OF COVER.
- T AND TOP ELEVATIONS OF WETWELL. OF CONTROL PANEL.
- SORS FOR PUMP OFF, FIRST AND SECOND ND ALARM ON.
- VAULT PIPING AND VALVE CHANGES. RING DIAGRAM SHALL BE PERMANENTLY CONTROL PANEL ENCLOSURE DOOR.

FLORIDA GOVERNMENTAL UTILITY AUTHORITY UTILITY NOTES:

- 1. ALL CONSTRUCTION SHALL MEET PASCO COUNTY STANDARDS AND SPECIFICATIONS AS APPLICABLE. AN FGUA REPRESENTATIVE IS TO BE PRESENT DURING CONNECTIONS TO EXISTING FACILITIES WITH 72
- HOUR NOTIFICATION. ALL UTILITIES WITHIN THE PROPERTY LINES WILL BE OWNED AND MAINTAINED BY THE PROPERTY
- ANY UTILITIES (PIPES, VALVES, AND ASSOCIATED HARDWARE) TO BE CONVEYED TO FGUA WILL BE LOCATED WITHIN AN EXISTING PUBLIC UTILITY EASEMENT, RIGHT-OF-WAY (ROW) AND/OR A DEDICATED FGUA UTILITY EASEMENT
- ANY REAL PROPERTY (LIFT STATIONS, PUMP HOUSES, WELLS, ETC.) WILL NOT BE LOCATED WITHIN THE ROW AND WILL BE CONVEYED TO FGUA VIA A SPECIFIC WARRANTY DEED.
- 6. LOW PRESSURE AIR TEST, AND VIDEO INSPECTION ARE REQUIRED FOR THE GRAVITY COLLECTION SYSTEM) - WATER SYSTEMS ARE TESTED TO A MINIMUM OF 150PSI FOR TWO-HOUR DURATION AS PER AWWA C 600 STANDARDS. FIRE SYSTEMS ARE NOT THE FGUA RESPONSIBILITY.
- INSTALL 10 GAUGE TRACER WIRE ON ALL MAIN PIPELINES. WIRE TO EXTEND INTO EACH VALVE BOX WITH SUFFICIENT EXCESS TO BRING WIRE THREE FEET ABOVE FINISH GRADE ...
- 8. ALL WATER AND/OR WASTEWATER LINES PASSING UNDER PAVED AREAS WILL BE CONSTRUCTED WITH A CASING AND SHALL APPLY WITH LOCAL OR STATE DOT STANDARDS. A REDUCED PRESSURE ZONE (RPZ), BACKFLOW PREVENTION ASSEMBLY (BFP) IS REQUIRED.
- ACCEPTABLE MODELS FEBCO 825Y, WATTS 909, WILKINS 975XL, OR CONBRACO 400. 10. FULL CIRCLE STAINLESS STEEL TAPPING SADDLE SLEEVE WITH RESILIENT SEATED TAPPING VALVE FOR PROPOSED WATER AND FORCE MAIN CONNECTIONS TO BE USED.
- 11. WATER TAPPING SADDLES TO BE DOUBLE STRAP BRASS OR DUCTILE IRON OR EPOXY COATED STEEL WITH STAINLESS STEEL HARDWARE. TIE STRAPS AND BOLTS SHALL BE CORROSION RESISTANT ALLOY
- 12. ALL FIRE FLOW LINES WILL RUN SEPARATE FROM THE DOMESTIC WATER MAINS AND HAVE A FIRE DETECTION METER AND A FIRE LINE BACKFLOW PREVENTION ASSEMBLY (BFP) ASSEMBLY SHALL INCLUDE A LOW FLOW BY-PASS METER W/ RPZ
- 13. MANHOLE FRAMES & COVERS, AND CO CAPS ARE TO BE WATER TIGHT, IF NEEDED EXISTING MANHOLE TOPS ARE TO BE ADJUSTED TO PROPOSED GRADE.
- 14. INFLOW PROTECTION DISHES ARE REQUIRED FOR ALL MANHOLES; STAINLESS STEEL IN PAVED AREAS, ABS IN UNPAVED AREAS.
- 15. A CLEANOUT SHALL BE PROVIDED AT THE ROW/PL FOR ALL SERVICE CONNECTIONS
- 16. THE FGUA SHALL OWN AND MAINTAIN ALL WATER SERVICE LINES UP TO THE POINT OF CONNECTION. AII WATER MAINS SHALL BE A MINIMUM OF FOUR INCHES (4") IN DIAMETER AND ALL SUCH WATER MAINS SHALL BE CONSTRUCTED IN DEDICATED RIGHTS-OF-WAY OR APPROPRIATE UTILITY EASEMENTS DEDICATED TO THE FGUA.
- 17. ALL SEWER FORCE MAIN LINES AND GRAVITY SERVICE LINES ACCEPTED MUST BE AT LEAST FOUR INCHES (4") IN DIAMETER AND EIGHT INCHES (8"), RESPECTIVELY, EXCEPT LATERAL SEWER SERVICE LINES WHICH SHALL BE NO LESS THAN SIX INCHES (6") IN DIAMETER AND ACCEPTED BY THE FGUA TO A CLEANOUT LOCATED ON THE EDGE OF THE RIGHT-OF-WAY OR AN EASEMENT.
- 18. A BALL CHECK VALVE FOLLOWED BY A PLUG VALVE WILL BE INSTALLED ON FORCE MAINS LOCATED IN PUE OR R/W AT THE PROPERTY LINE DISCHARGING FROM PRIVATELY OWNED LIFT STATIONS CONNECTING INTO THE UTILITY MAINS
- 19. CONNECTION TO EXISTING MANHOLES AND/OR LIFT STATIONS SHALL BE BY CORE BORE WITH KOR-N-SEAL CONNECTORS. 20. ALL CONNECTIONS WILL BE MADE AS HOT TAPS. ANY EXCEPTIONS TO THIS WILL REQUIRE FGUA
- APPROVAL. ALL HOT TAP CONNECTIONS SHALL BE PERFORMED BY A LICENSED, UNDERGROUND CONTRACTOR, WITH ADVANCE NOTIFICATION (72 HOURS) TO THE FGUA INSPECTOR
- 21. BACKFLOW PREVENTION DEVICES SHALL BE PRIVATELY OWNED AND MAINTAINED. BFPDS SHOULD BE LOCATED OUTSIDE OF ANY FGUA EASEMENT OR ROW/PUBLIC EASEMENT. IT IS THE SOLE RESPONSIBILITY OF THE PROPERTY OWNER TO MAINTAIN THE DEVICE AND PROVIDE ANNUAL TESTING CERTIFICATIONS TO THE FGUA.

TRAFFIC CONTROL NOTES:

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SET UP AND MAINTAIN TRAFFIC CONTROL FOR THE DURATION OF THE WORK WITHIN ANY PRIVATE, COUNTY OR STATE RIGHT OF WAY IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS INDEX SERIES NO. 600. THE CONTRACTOR'S PROPOSED PLAN FOR IMPLEMENTATION FOR TRAFFIC CONTROL MUST BE APPROVED IN ADVANCE OF CONSTRUCTION BY THE TRAFFIC OPERATIONS MANAGER THE COST OF THE TRAFFIC CONTROL PLAN SHALL BE CONSIDERED INCIDENTAL TO TRAFFIC CONTROL ITEMS INCLUDED IN THE CONTRACT

2. AREAS REQUIRING MAINTENANCE OF TRAFFIC INCLUDE THE FOLLOWING: DOGPATCH LN. 3. TRAFFIC CONTROL PHASING:

- A. PLACE ADVANCED WARNING SIGNS PER APPLICABLE FDOT STANDARD PLANS 102-600 SERIES. B. LANE CLOSURES SHALL NOT BE PERMITTED DURING THE HOURS OF 6:00 AM TO 9:00 AM AND 4:00 PM TO 7:00 PM. LANE CLOSURES WITHIN ANY SCHOOL ZONE OR WITHIN 500 FEET OF ANY SCHOOL ZONE SHALL NOT BE PERMITTED FROM ONE (1) HOUR BEFORE TO ONE (1) HOUR AFTER HE STARTING AND ENDING TIMES FOR SCHOOL. ALL LANE CLOSURES SHALL BE PROPERLY SIGNED, CONED, OR BARRICADED IN ACCORDANCE WITH FDOT STANDARDS, VARIABLE MESSAGE SIGNS SHALL BE USED TO ADVISE MOTORISTS OF THE LANE CLOSURES. THE CONTRACTOR SHALL NOTIFY ALL EMERGENCY, LAW ENFORCEMENT, AND RESCUE AGENCIES OPERATING IN THE VICINITY OF THE PROJECT TWENTY-FOUR (24) HOURS IN ADVANCE OF THE PROPOSED LANE CLOSURES OR RESTRICTIONS. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE COUNTY'S PROJECT MANAGER, OPEN ANY TEMPORARY LANE CLOSURE CAUSING EXTENDED TRAFFIC CONGESTION, UNTIL TRAFFIC HAS RETURNED TO AN ACCEPTABLE FLOW AS JUDGED BY THE COUNTY'S PROJECT MANAGER.
- C. THE CONTRACTOR SHALL PROVIDE TWO (2) UNIFORMED, OFF-DUTY, LAW ENFORCEMENT OFFICERS FOR TRAFFIC CONTROL: DURING NIGHT OPERATIONS, AND WITHIN 600 FEET OF A SIGNALIZED INTERSECTION AND AS DIRECTED BY THE COUNTY PROJECT MANAGER
- D. GENERAL MAINTENANCE OF TRAFFIC PROVISIONS THE CONTRACTOR SHALL EXERCISE CAUTION WHILE RELOCATING EXISTING SIGNS OR INSTALLING NEW SIGNS TO PREVENT UNNECESSARY DAMAGE TO THE SIGNS. IF THE SIGNS ARE DAMAGED BEYOND USE. AS DETERMINED BY THE COUNTY'S PROJECT MANAGER. SIGNS WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL MAINTAIN AT LEAST TWO (2) LANES OF TRAFFIC THROUGHOUT THE DURATION OF THE PROJEC THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND STREETS AT ALL TIMES. EXCEPT WHEN WRITTEN PERMISSION IS GIVEN BY THE COUNTY, NO ROAD OR STREET INTERSECTING THE PROJECT SHALL BE BLOCKED OR UNDULY RESTRICTED. - NO STREET CLOSING SHALL BE MADE WITHOUT THE COUNTY'S WRITTEN APPROVAL. THE CONTRACTOR SHALL NOTIFY THE FIRE DEPARTMENT, POLICE DEPARTMENT, FLORIDA HIGHWAY PATROL, COUNTY TRAFFIC OPERATIONS DIVISION AND COUNTY EMERGENCY MANAGEMENT DIVISION BEFORE AND AFTER THE
- LOSING OF ANY TEMPORARY MARKINGS SHALL BE INSTALLED IMMEDIATELY WHEN REQUIRED. STREET OR PORTION THEREOF TEMPORARY REFLECTORIZED PAVEMENT MARKERS (RPM) SHALL BE INSTALLED
 WITH ALL TEMPORARY LANE LINES.
 MAINTENANCE OF TRAFFIC SHALL INCLUDE ALL TEMPORARY PAVEMENT MARKINGS
 REQUIRED PRIOR TO INSTALLATION OF PERMANENT PAVEMENT MARKINGS.

SIGNING AND MARKING NOTES:

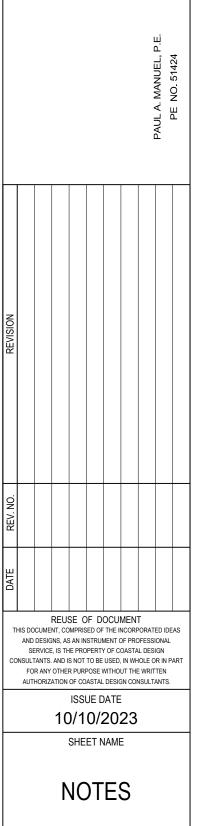
- 1. ALL TRAFFIC CONTROL SIGNING AND MARKING SHALL BE IN CONFORMANCE WITH MUTCD AND FDOT STANDARDS.
- 2. ALL ON-SITE PAVEMENT MARKINGS SHALL BE TRAFFIC GRADE PAINT. 3. ALL PAVEMENT MARKINGS WITH COUNTY AND/OR FDOT ROW SHALL BE THERMOPLASTIC
- 4. ALL SIGNS SHALL BE PER FDOT STANDARD PLAN 700-102
- 5. PRIVATE ROAD SIGN SHALL BE WHITE REFLECTIVE BACKGROUND WITH GREEN COLORED LETTERS PER PASCO COUNTY/FDOT SPECIFICATIONS 6. PUBLIC ROAD SIGN SHALL BE GREEN REFLECTIVE BACKGROUND WITH WHITE COLORED LETTERS PER PASCO COUNTY/FDOT SPECIFICATIONS



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