	PRESERV
GI	ENERAL NOTES:
A.	TOPOGRAPHIC BOUNDARY SURVEY, INCLUDING PROPERTY LINES, LEGAL DESCRIPTION EXISTING UTILIT TOPOGRAPHY WITH SPOT ELEVATIONS, OUTSTANDING PHYSICAL FEATURES AND EXISTING STRUCTURE PROVIDED BY THE FOLLOWING COMPANY, AS CONTRACTORS TO THE OWNER:
	A & J LAND SURVEYORS, INC 5847 LUELLA STREET JACKSONVILLE, FLORIDA 32207 CONTACT: JONATHON B. BROWN PHONE: (904) 346-1736
	MATTHEWS DESIGN GROUP, LLC AND ITS ASSOCIATES WILL NOT BE HELD RESPONSIBLE FOR THE ACCUI OR FOR DESIGN ERRORS OR OMISSIONS RESULTING FROM SURVEY INACCURACIES.
B.	ADDITIONAL PROJECT INFORMATION HAS BEEN PROVIDED BY THE FOLLOWING SUB-CONSULTANT AS CO OWNER:
	UNIVERSAL ENGINEERING SCIENCES TYPE: GEOTECHNICAL 5561 FLORIDA MINING BOULEVARD SOUTH JACKSONVILLE, FLORIDA 32257-3648 CONTACT: STEPHEN R. WEAVER, P.E. PHONE: (904) 296-0757
C.	THE GENERAL CONTRACTOR SHALL NOTIFY THE OWNER/ENGINEER OF ANY DISCREPANCIES BETWEEN FIELD VERIFICATION OF INFORMATION ABOVE OR BELOW GROUND THAT MAY BE CRITICAL TO THE DESIG THE GENERAL CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR AND SHALL TAKE ALL PRECAUTIO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION OF THIS PROJECT.
D.	WARRANTY / DISCLAIMER: THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER T PERSONNEL CAN OR DO WARRANT THESE DESIGNS OR PLANS AS CONSTRUCTED EXCEPT IN THE SPECI THE ENGINEER IS INVOLVED WITH THE PHYSICAL CONSTRUCTION ON AN ONGOING BASIS AT THE SITE. MATTHEWS DESIGN GROUP (MDG) IS THE PROJECTS ENGINEER OF RECORD (EOR). MDG IS NOT A GENER UTILITY CONTRACTOR, SITE CONTRACTOR, OR ANY OTHER TYPE OF CONTRACTOR.
F	
μ.	IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL B COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS A PERFORMANCE OF WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NO HOURS. ANY CONSTRUCTION OBSERVATION BY THE ENGINEER OF THE CONTRACTOR'S PERFORMANCE INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON OR NEAR THE C
F.	<u>CONSTRUCTION TESTING:</u> CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION, TESTING, LABORATORY ANALYSES, RE CONCERNING SOILS AND PAVEMENT RELATED DESIGN REQUIREMENTS AND SPECIFICATIONS AS SET FO
G.	AS-BUILT SURVEY NOTE: UPON COMPLETION OF CONSTRUCTION, CONTRACTOR IS REQUIRED TO PROVIDE OWNER / ENGINEER W SEALED AS-BUILT SURVEY AND ANY OTHER RELATED CONSTRUCTION DOCUMENTS, IN ACCORDANCE W PERMITTING AGENCY REQUIREMENTS, AS THE BASIS FOR PROJECT CERTIFICATIONS AND CLOSE-OUT.
H.	<u>RIGHT-OF-WAY:</u> ANY AND ALL WORK CONDUCTED WITHIN THE CITY OF GREEN COVE SPRINGS RIGHT-OF-WAYS MUST BE THE APPLICABLE LAND DEVELOPMENT CODES.
I.	PRE-CONSTRUCTION MEETING: IT IS THE RESPONSIBILITY OF THE APPLICANT TO SCHEDULE A PRE-CONSTRUCTION / PRE PERMIT ISSUA CITY OF GREEN COVE SPRINGS STAFF AFTER PLANS HAVE BEEN RELEASED FOR CONSTRUCTION BY TH STARTING ANY SITE ACTIVITIES. THE PRE-CONSTRUCTION MEETING WILL BE HELD IN CONJUNCTION WIT MANDATORY PRE-CONSTRUCTION MEETING. HOWEVER, IF THE PROJECT FALLS OUTSIDE OF CITY JURIS CALL CITY OF GREEN COVE SPRINGS TO SCHEDULE MEETING.
J.	ALL ELEVATIONS SHOWN HEREIN ARE REFERENCED TO NAVD 88.
I.	 <u>FIRE SEVICES</u> WHEN VERTICAL CONSTRUCTION BEGINS, FIRE DEPT. ACCESS IS REQUIRED *FIRE DEPT ACCESS ROADS SHALL BE PROVIDED AT THE START OF THE PROJECT AND SHALL BE MAIN CONSTRUCTION. (NFPA 1, CHP 16) *FIRE DEPT ACCESS ROAD SHALL BE UNOBSTRUCTED 20 FEET WIDE, STABILIZED SURFACE TO SUPPOR PROVIDE TURNAROUND FOR A 50 FOOT FIRE APPARATUS. (NFPA 1, CHP 18)
	811.

ONSTRUCTION PLANS FOR E AT GREEN COVE SPRINGS **TY OF GREEN COVE SPRINGS**

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COSTS, ETC., THESE PLANS.

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OWNER: PC ACQUISITION LLC 3475 PIEDMONT ROAD NE, SUITE 1125 ATLANTA, GA 30305 PHONE: (803) 381-5850

CONTACT: JOHN D. CATTANO



P.O. BOX 3126, 7 WALDO STREET ST. AUGUSTINE, FL 32084 PHONE: 904.826.1334 mdg.info@dccm.com

PERMITS / APPROVALS PERMIT NO. SUBMITTED RECEIVED THROUGHOUT CITY OF GREEN COVE SPRINGS CLAY COUNTY UTILITY AUTHORITY 0 LBS AND ST JOHNS RIVER WATER MANAGEMENT DISTRICT FDEP - WATER _____ _ FDEP - SEWER _____ ____ FDOT

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RESOURCE LIST

CITY OF GREEN COVE SPRINGS
321 WALNUT STREET
GREEN COVE SPRINGS, FL 32043
(904) 297-7500
FDEP - WATER & SEWER

8800 BAYMEADOWS WAY, SUITE 100

JACKSONVILLE, FL 32256

(904) 256-1700

<u>FDOT</u> 3600 DOT ROAD ST. AUGUSTINE, FL 32084 (904) 825-5026

SJRWMD - PALATKA HEADQUARTERS

PO BOX 1429 PALATKA, FL 32178 (386) 329-4500

FLOOD CERTIFICATION:

THIS SITE IS SHOWN IN FLOOD ZONE "X" AS DESIGNATED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NUMBER 12109C0257H, FOR CITY OF GREEN COVE SPRINGS, FLORIDA, EFFECTIVE DECEMBER 7, 2018.

COVER SHETDeserver DTSDTSDTSDTSDTSDTSDTSDTSDTSPRESERVE AT GREEN COVE SPRINGS TY OF GREEN COVE SPRINGS PREPARD FOR TOTY OF GREEN COVE SPRINGSPOLOBOX 3126, 7 WALDO STRET OFFDTSDTSDTSDTSDTSDTSDTSPRESERVE AT GREEN COVE SPRINGS TY OF GREEN COVE SPRINGS PREPARD FOR TO COULT TO COMPOLOBOX 3126, 7 WALDO STRET OFFDTSDTSDTSDTSDTSDESCRIPTIONPRESERVE AT GREEN COVE SPRINGS PREPARD FOR TO COULT SPRINGSPOLOBOX 3126, 7 WALDO STRET OFFDTSDTSDTSDTSDTSDTSDTSPRESERVE AT GREEN COVE SPRINGS PROPER SPRINGSPOLOBOX 3126, 7 WALDO STRET OFFDTSDTSDTSDTSDTSDTSDTSPREPARD FOR PREPARD FOR PC ACQUISITION LLCPOLOBOX 3126, 4547 DTSDTSDTSDTSDTSDTSDTSDTSPREPARD FOR PC ACQUISITION LLCPOLOBOX 3126, 4547 DTSDTSDTSDTSDTSDTSDTSDTSDTSPREPARD FOR PC ACQUISITION LLCPOLOBOX 3126, 4547 DTSDTSDTSDTSDTSDTSDTSDTSDTSDTSPREPARD FOR PC ACQUISITION LLCPTSPTSDTSDTSDTSDTSDTSDTSDTSDTSDTSDTSPC ACQUISITION LLCPTSPTSPTSPTSPTSPTSDTSDTSDTSDTSDTSDTSDTSDTSDTSDTSDTS<								ALEX R. ACREE. P.E.	CA#26535 FL.#73155
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COVER SHEET COVER SHEET PRESERVE AT GREEN COVE SPRINGS Pattbews PRESERVE AT GREEN COVE SPRINGS P.O. BOX 3126, 7 WALDO STREET ST. AUGUSTINE, FL 32084 P.O. BOX 3126, 7 WALDO STREET PRESERVE AT GREEN COVE SPRINGS P.O. BOX 3126, 7 WALDO STREET PRESERVE AT GREEN COVE SPRINGS P.O. BOX 3126, 7 WALDO STREET PRESERVE AT GREEN COVE SPRINGS P.O. BOX 3126, 7 WALDO STREET PRESERVE AT GREEN COVE SPRINGS P.O. BOX 3126, 7 WALDO STREET PREPAREDFOR P.O. BOX 3126, 7 WALDO STREET	DSGN BY: DTS		2		ANA	DATE: 03-12-25		JOB No.:	22034
COVER SHEET PRESERVE AT GREEN COVE SPRINGS CITY OF GREEN COVE SPRINGS PREPARED FOR PREPARED FOR PREPARED FOR PC ACQUISITION LLC				D O BOY 2126 7 WAI DO STREET	1.0. DUA J120, / WALDU J1NELI	ST. AUGUSTINE, FL 32084	PHONE: 904 826 1334 • FAX: 904 826 454		INFO@MDGINC.COM
	COVER SHEET		DRFSFRVF AT GRFFN COVF SPRINGS	I INFORMATE VILONTEDIACA E DI MILAD		CITY OF GREEN COVE SPRINGS	PREPARED FOR		PC ACQUISITION LLC

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GENERAL SITE NOTES: 1. MATTHEWS DESIGN GROUP (MDG) IS THE PROJECTS ENGINEER OF RECORD (EOR). MDG IS NOT A GENERAL	16.	ALL DRAINAGE STRUC
CONTRACTOR, UTILITY CONTRACTOR, SITE CONTRACTOR, OR ANY OTHER TYPE OF CONTRACTOR. 2. ALL WORK AND MATERIALS SHALL BE IN COMPLETE ACCORDANCE WITH ALL RELATIVE SECTIONS OF CITY OF GREEN	17.	ALL DRAINAGE PIPE JC
COVE SPRINGS LAND DEVELOPMENT CODE, (LATEST REVISION) AND ALL CITY STANDARD DETAILS. 3. ALL WORK SHALL BE PERFORMED IN A SAFE MANNER. ALL SAFETY RULES AND GUIDELINES OF OSHA SHALL BE	18.	ALL INVERTS IN DRAIN, LAYER OF BRICK, OR R
FOLLOWED. THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ANY INJURIES OF THEIR EMPLOYEES, AND FOR ANY DAMAGE TO PRIVATE PROPERTY OR PERSONS DURING THE COURSE OF THIS PROJECT. ALL COSTS ASSOCIATED WITH COMPLYING WITH OSHA REGULATIONS AND THE FLORIDA TRENCH SAFETY ACT MUST BE	19.	THE CONTRACTOR SHARE RAMPS SHALL MEET AL
INCLUDED IN THE CONTRACTORS BID. 4. PRIOR TO CONSTRUCTION, THE SITE CONTRACTOR SHALL VERIFY ALL SURVEY CONTROL POINTS AS PROVIDED IN	20.	ALL UNDERGROUND U
THE BOUNDARY SURVEY. THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF ANY DISCREPANCIES.	21.	IF DEWATERING CAPAC RESPONSIBILITY TO OF
5. THE CONTRACTOR STALL BE RESPONSIBLE FOR VISIBLE FOR VISIBLE FUE AND THE SUB STEP FRIEND TO FREPARING THE BID FOR THE PURPOSE OF FAMILIARIZING THEMSELVES WITH THE NATURE AND THE EXTENT OF THE WORK AND LOCAL CONDITIONS, EITHER SURFACE OR SUB-SURFACE, WHICH MAY AFFECT THE WORK TO BE PERFORMED, AND THE EQUIPMENT, LABOR AND MATERIALS REQUIRED. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF COMPLETE PERFORMANCE UNDER THE CONSTRUCTION CONTRACT. THE CONTRACTOR IS ALSO URGED TO TAKE COLOR PHOTOGRAPHS ALONG THE ROUTE OF OR WITHIN THE PROJECT TO RECORD EXISTING CONDITIONS PRIOR TO CONSTRUCTION, AND TO AID IN RESOLVING POSSIBLE FUTURE ISSUES THAT MAY OCCUR DUE TO THE CONSTRUCTION OF THE PROJECT.	22.	ALL DRAINAGE PIPES II TELEVISED BY A COMP REQUIREMENT MAY ON THAT THE SITE DOES N IS ANY CONNECTION O POND, OR STRUCTURE AND SHALL BE OF SUC ALIGNMENT. A VIDEO T DRAINAGE LINES SHAL
6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EITHER CONDUCT ANY FIELD EXPLORATION OR ACQUIRE ANY GEOTECHNICAL ASSISTANCE REQUIRED TO ESTIMATE THE AMOUNT OF UNSUITABLE MATERIAL THAT WILL REQUIRE REMOVAL AND/OR TO ESTIMATE THE AMOUNT OF OFF SITE BORROW THAT WILL BE REQUIRED. FAILURE OF THE CONTRACTOR TO IDENTIFY/QUANTIFY THE AMOUNT OF UNSUITABLE MATERIAL TO BE REMOVED AND REPLACED DURING THE BID PROCESS WILL NOT RELIEVE THE CONTRACTOR OF COMPLETE PERFORMANCE UNDER THE	23	WEARING SURFACE OF PRIOR TO THE PLACEM REVIEWED AND CERTIF
 CONSTRUCTION CONTRACT. ALL IMPROVEMENTS SHOWN ARE TO BE WARRANTED BY THE CONTRACTOR TO THE DEVELOPER AND CITY OF GREEN COVE SPRINGS FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY THE OWNER AND CITY OF GREEN COVE SPRINGS. 		UNDER THE JURISDICT COMPOSITE MATERIAL INSERTS ARE TO BE CO CONCRETE SURFACE A CONFORM TO FLORIDA
8. FOR BOUNDARY, ROADWAY, AND BUILDING GEOMETRY INFORMATION SEE ENGINEERING SITE PLAN. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THAT THE BUILDING DIMENSIONS SHOWN ON THE ENGINEERING PLAN AGREES WITH THE DIMENSIONS SHOWN ON THE ARCHITECTURAL PLAN. IF ANY DIMENSIONS DO NOT AGREE, THE ARCHITECT, ENGINEER, AND OWNER SHALL BE NOTIFIED AND THE DIMENSIONS ADJUSTED PRIOR TO COMMENCING WITH CONSTRUCTION	24.	THROUGH 8, AND 28 CO APPLICABLE CITY REQ ALL SIDEWALKS AND C DESIGNED AND CONST
9. UNLESS DIRECTED OTHERWISE BY THE OWNER OR THE ENGINEER, THE CONTRACTOR WILL CONTRACT WITH AN		PART 36, APPENDIX A, REQUIREMENTS.
CITY REQUIREMENTS. THIS SHALL INCLUDE DENSITY TESTS IN ALL PAVEMENT AREAS AND IN ALL UTILITY TRENCHES LOCATED IN PAVEMENT AREAS, CONCRETE TESTING AND ALL OTHER MATERIAL TESTING. PRIOR TO LIMEROCK PLACEMENT, THE PROJECT GEOTECHNICAL ENGINEER SHALL MAKE RECOMMENDATION FOR UNDERDRAIN PLACEMENT.	25. 26.	PRIOR TO INSTALLATIO CALCULATE ALL CROSS ENGINEER WILL BE HEI THE CONTRACTOR IS S
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE REQUIRED FOR THE PROJECT INCLUDING CITY OF GREEN COVE SPRINGS RIGHT-OF-WAY PERMITS FOR WORK IN THE CITY RIGHT-OF-WAY OR EASEMENT.		SHOWN ON THESE PLA THE FIELD WHEN POSS COMPLETE. THE CONT EXCAVATION TO REQU
 THE CONTRACTOR SHALL COORDINATE THEIR CONSTRUCTION WITH ALL OTHER CONTRACTORS. IN THE EVENT OF ANY CONFLICT WHATSOEVER, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER PRIOR TO PROCEEDING WITH CONSTRUCTION. 	27.	UNLESS OTHERWISE IN "B", AS SHOWN ON SHE SHOWN ON SHEFT 18
12. THE LOCATION OF ALL EXISTING UTILITIES, STRUCTURES AND IMPROVEMENTS SHOWN ON THE DRAWINGS IS BASED ON LIMITED INFORMATION AND MAY NOT HAVE BEEN FIELD VERIFIED. THE LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL NOTIFY RESPECTIVE UTILITY OWNERS AND FIELD VERIFY LOCATIONS OF EXISTING UTILITIES AND OTHER IMPROVEMENTS PRIOR TO COMMENCING ANY CONSTRUCTION. IF THE LOCATIONS SHOWN ARE CONTRARY TO THE ACTUAL LOCATIONS. THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF THE	28.	POND SLOPES AS SHO GROUNDWATER SEEP/ THE SLOPES TO MEET ISSUES SO THAT ENGIN
DISCREPANCY. THIS DISCREPANCY SHOULD BE RESOLVED PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING IN AREAS NEAR EXISTING UTILITIES AND IMPROVEMENTS AND SHALL BE RESPONSIBLE FOR AND SHALL REPAIR OR PAY FOR ALL DAMAGE MADE TO EXISTING UTILITIES OR OTHER IMPROVEMENTS. PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION, THE CONTRACTOR SHALL VERIEVALL GRADES INVERTS AND TYPE OF MATERIAL OF EXISTING UTILITIES TO WHICH THEY SHALL	29.	ALL STORM PIPE ON TH FOR SIDE DRAIN, STOR AASHTO MP21-11.
CONNECT, AND NOTIFY THE OWNER AND ENGINEER OF ANY DISCREPANCIES.	$\frac{\text{GI}}{1.}$	ENERAL SIGNIN
PROJECT IS WITHIN THE CITY'S JURISDICTION FOR INSPECTION. IF SO, THEN IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE CITY FOR A PRE-CON MEETING FOR INSPECTIONS.	2.	MATCH EXISTING PAVE
14. DUE TO THE PROXIMITY TO EXISTING RESIDENTIAL HOMES THE APPLICANT SHOULD LIMIT HOURS OF OPERATION TO DAYTIME HOURS AND PROVIDE MITIGATION TO NOISE FROM PUMPS IF 24 HOUR DEWATERING ACTIVITIES ARE	4.	SIGN ASSEMBLY LOCA
15. THE BUILDING FOOTPRINTS SHOWN HEREON ARE APPROXIMATE. SEE ARCHITECTURAL PLANS FOR EXACT	5.	EXISTING SIGNS TO BE
16. ALL STOP SIGNS SHALL BE FINISHED WITH DIAMOND GRADE HIGH REFLECTIVITY SURFACE.	6.	COST FOR SIGNING AN
17. ALL STOP BARS SHALL BE THERMO-PLASTIC MATERIAL.	<u>GI</u> 1.	ENERAL DEMOL SEE SHEET 5 FOR THE
PAVING & DRAINAGE NOTES: 1. "AS-BUILT" DRAWINGS - DRAINAGE AS-BUILTS PROVIDED TO CITY OF GREEN COVE SPRINGS AND THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT ARE REQUIRED TO BE SIGNED AND SEALED BY A FLORIDA REGISTERED LAND	2.	ALL UTILITIES SHALL R EROSION CONTROL & I
SURVEYOR. THEREFORE, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTRACT WITH A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA FOR THE PREPARATION, FIELD LOCATIONS, CERTIFICATION AND SUBMITTAL OF "AS-BUILT" DRAWINGS IN ACCORDANCE WITH CURRENT CITY OF GREEN COVE SPRINGS STANDARDS AND SPECIFICATIONS AND SJRMWD REGULATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROCESS THE AS-BUILT DRAWINGS FOR APPROVAL BY CITY OF GREEN COVE SPRINGS. IN ADDITION TO THE DRAINAGE SYSTEM	3.	THE CONTRACTOR IS F CONSTRUCTION. ABAN REQUIREMENTS SET F
THE "AS-BUILTS" SHALL SHOW THE ELEVATIONS AND LOCATION OF THE TOP OF BANK, WATER LEVEL, ANY POINTS OF CHANGE IN SLOPE, TOE OF SLOPE AND POND BOTTOM AT 100' MAXIMUM INTERVALS ALONG POND BANK FOR ALL POND CONSTRUCTION. ALL DIMENSIONS AND ELEVATIONS ON THE CONTROL STRUCTURE DETAILS SHALL BE SHOWN ON AS-BUILT DRAWINGS.	$\frac{W}{1}$	ATER AND SEW
 ALL AREAS SHOWN TO BE FILLED SHALL BE CLEARED AND GRUBBED IN ACCORDANCE WITH CITY OF GREEN COVE SPRINGS STANDARDS AND SHALL BE FILLED WITH CLEAN STRUCTURAL FILL COMPACTED AND TESTED IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION REPORT. 	<u>Сг</u> 1.	NO CONSTRUCTION AC STOCKPILING OF ANY E
 CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL SURVEY AND PROPERTY MONUMENTS. IF A MONUMENT IS DISTURBED, THE CONTRACTOR SHALL CONTRACT WITH THE SURVEYOR OF RECORD FOR REINSTALLATION OF THE 	2.	THE CONTRACTOR SH
MONUMENT. 4. ALL DEBRIS RESULTING FROM ALL ACTIVITIES SHALL BE DISPOSED OF OFF-SITE BY CONTRACTOR.	3.	THE CONTRACTOR SH
 ALL EXCESS SUITABLE AND UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AT HIS EXPENSE UNLESS DIRECTED OTHERWISE BY ENGINEER OR OWNER. 		AND VEGETATION HAV
6. ALL EXISTING TREES TO REMAIN SHALL BE PRESERVED AND PROTECTED.	4.	SITE(S).
 BURNING OF TREES, BRUSH, AND OTHER MATERIAL SHALL BE APPROVED, PERMITTED, AND COORDINATED WITH CITY OF GREEN COVE SPRINGS FIRE MARSHAL. 	5.	OR DEBRIS AS A RESU DRAIN WILL OCCUR FR
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING A PERMANENT STAND OF SOD AND/OR GRASS PER CITY OF GREEN COVE SPRINGS STANDARDS AND MEETING THE NPDES FINAL STABILIZATION REQUIREMENTS.	6.	SYSTEM WHERE SEDIN RAIN DAYS CLAIMED B
9. UNSUITABLE MATERIALS UNDER WATER PIPE, SEWER PIPE, STORM PIPE, OR STRUCTURES SHALL BE REMOVED AND REPLACED WITH SELECTED BACKFILL, PROPERLY COMPACTED AT CONTRACTOR'S EXPENSE.	7.	ALL SEDIMENT COLLEC
10. THE CONTRACTOR SHALL COORDINATE THE WORK WITHIN CITY OR STATE RIGHT-OF-WAY WITH THE PROPER AGENCIES FOR MAINTENANCE OF TRAFFIC AND METHOD OF CONSTRUCTION AND REPAIR.	GI	PROPERLY CONTAINED
11. ALL CLEARING AND GRUBBING REQUIRED FOR ALL ROADWAY, UTILITIES, DITCHES, BERMS, AND BUILDINGS INCLUDED IN THIS PROJECT AND THE CLEARING AND GRUBBING OF ALL RIGHT-OF-WAY OR EASEMENTS SHALL BE CONSIDERED AS PART OF THIS PROJECT.	1. 2.	LOCATE ALL UTILITIES
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A DEWATERING PERMIT FROM THE SJRWMD.	3.	ANY PLANTING. FERTILIZE ALL PLANTS
13. PRIOR TO ANY DISCHARGE OF GROUND WATER (DEWATERING) FROM CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT TO WATERS OF THE STATE (INCLUDING, BUT NOT LIMITED TO, WETLANDS, CREEKS, SWALES AND MUNICIPAL STORM SEWERS), THE CONTRACTOR SHALL TEST THE EFFLUENT (WATER TO BE DISCHARGED) IN ACCORDANCE WITH RULE 62-621.300(2), F.A.C. IF THE TEST RESULTS ON THE EFFLUENT ARE BELOW THE SCREENING VALUES OF RULE 62-621.300(2), F.A.C., THE CONTRACTOR SHALL SUBMIT A SUMMARY OF THE DEPORTED AND THE TEST DECLIFIED TO THE DEPARTMENT AS ENVIRONMENTAL	4.	PLANT MATERIAL SHAL "GRADES AND STANDA CONSUMER SERVICES STOCK", AMERICAN NA
PROPOSED CONSTRUCTION ACTIVITY AND THE TEST RESULTS TO THE DEPARTMENT OF ENVIRONMENTAL PROTECTION DISTRICT OFFICE, WITHIN ONE (1) WEEK AFTER DISCHARGE BEGINS. THE CONTRACTOR SHALL CONTINUE TO SAMPLE THE EFFLUENT AS REQUIRED THROUGHOUT THE PROJECT AND COMPLY WITH ALL CONDITIONS OF RULE 62-621.300(2), F.A.C. IF THE GROUND WATER EXCEEDS THE SCREENING VALUES OF RULE 62-621.300(2), F.A.C., THE CONTRACTOR SHALL COMPLY WITH OTHER APPLICABLE RULES AND REGULATIONS PRIOR TO DISCHARGE OF THE EFFLUENT (GROUND WATER) TO SURFACE WATERS OF THE STATE	5.	REMOVE ALL DEAD WC SOCIETY OF ARBORICU ARBORIST SHALL CON OFF-SITE LOCATION. F Z133.1 GUIDELINES
14. ALL PIPE LENGTHS ARE SCALED DIMENSIONS, MEASURED FROM CENTER OF STRUCTURE TO END OF MITERED END SECTIONS. STRUCTURES WITHIN FDOT RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH FDOT STANDARDS ALL	6.	TREES SHALL HAVE A I
DRAINAGE STRUCTURES SHALL BE CONSTRUCTED TO CONFORM WITH CITY REQUIREMENTS AND SHALL BE CONSTRUCTED TO CONFORM WITH CURBING, PROPERTY LINES, AND LOW POINTS AS SHOWN ON THE PLANS.	7.	ALL DISTURBED AREAS PLAN. IF DISTURBED AF MATERIAL OR BETTER.
15. CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC. ARE CLEAN AND FUNCTIONING PROPERLY AT TIME OF ACCEPTANCE.	8.	VEGETATION THAT EXO THAN TEN (10) FEET OF

TURES SHALL HAVE TRAFFIC BEARING GRATES.

DINTS ARE TO BE FILTER-WRAPPED.

- AGE STRUCTURES TO BE PRECAST OR BRICK WITH LAYER OF MORTAR BETWEEN EACH REDDI-MIX CONCRETE WITH #57 STONE.
- ALL PROVIDE HANDICAP RAMPS AT ALL SIDEWALK AND CURB CONNECTIONS. HANDICAP L APPLICABLE ADA REQUIREMENTS.
- TILITIES MUST BE INSTALLED PRIOR TO PREPARATION OF SUBGRADE FOR PAVEMENT. CITY REQUIRES A CONSUMPTIVE USE PERMIT (C.U.P.). IT SHALL BE THE CONTRACTOR'S 3TAIN THE PERMIT THROUGH THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT.
- NSTALLED WITHIN ROADWAY RIGHT-OF-WAYS/EASEMENTS (PUBLIC OR PRIVATE) SHALL BE ANY OR INDIVIDUAL CERTIFIED TO PERFORM SUCH WORK PER LDC 6.04.07.L.5.G. THIS NLY BE WAIVED ON COMMERCIAL SITES IF THE ENGINEER OF RECORD CERTIFIES BY LETTER NOT RECEIVE ANY RUNOFF FROM CITY OF GREEN COVE SPRINGS RIGHT-OF-WAYS. IF THERE R RELATIONSHIP BETWEEN THE PROJECT SITE AND A CITY OWNED OR MAINTAINED DITCH, , IT SHALL BE REQUIRED. THIS TELEVISING OF THE DRAINAGE LINE SHALL BE DONE IN COLOR H QUALITY AS TO VISUALLY IDENTIFY THE PROPER CONSTRUCTION OF ALL JOINTS AND PIPE APE SHALL BE PROVIDED TO THE CITY UPON COMPLETION. THE TELEVISING OF THE BE PERFORMED AFTER THE PLACEMENT OF THE BASE MATERIAL AND PRIOR TO THE FINAL THE ROADWAY. THE APPROVAL, BY THE CITY, OF THE TELEVISING SHALL BE REQUIRED IENT OF THE FINAL WEARING SURFACE OF THE ROADWAY. TELEVISED RECORD SHALL BE FIED BY THE ENGINEER OF RECORD (EOR).
- AT ALL DETECTABLE WARNING SURFACES FOR SIDEWALK AT CURB CUT HANDICAP RAMPS ION OF CITY OF GREEN COVE SPRINGS SHALL BE A CITY APPROVED YELLOW COLORED ANCHORED IN THE CONCRETE SIDEWALK RAMP, ANCHORED COMPOSITE WARNING AREA OLORED "SAFETY YELLOW". ARE TO BE SET INTO THE CONCRETE AND ARE TO BE FLUSH WITH ALONG ALL FOUR SIDES. DESIGN DIMENSIONS OF DETECTABLE WARNING AREA SHALL DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD PLANS INDEX 522-002, SHEETS 1 DDE OF FEDERAL REGULATIONS (CFR) PART 36, APPENDIX A LATEST REVISION, AS WELL AS UIREMENTS.
- URB CUT RAMPS UNDER THE JURISDICTION OF CITY OF GREEN COVE SPRINGS SHALL BE RUCTED TO CONFORM TO FDOT STANDARD PLANS INDEX 522-002 AND 522-001; AND TITLE 28, CODE OF FEDERAL REGULATIONS (CFR) LATEST REVISION, AS WELL AS MEETING ALL ADA
- ON OF STORM OR SANITARY SEWER, THE CONTRACTOR SHALL EXCAVATE, VERIFY AND SINGS AND INFORM THE ENGINEER OF ANY CONFLICTS PRIOR TO CONSTRUCTION. THE LD HARMLESS IN THE EVENT THE HE/SHE IS NOT NOTIFIED OF DESIGN CONFLICTS.
- SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS ANS IS BASED ON RECORDS OF VARIOUS UTILITY COMPANIES, AND MEASUREMENTS TAKEN IN SIBLE. THE INFORMATION SHOWN HEREON. IS NOT BE RELIED ON AS BEING EXACT OR TRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EST EXACT FIELD LOCATIONS OF THE UTILITIES.
- NDICATED ALL STORM SEWER SHALL BE BEDDED IN ACCORDANCE WITH DETAIL GD15 TYPE EET 18. UNLESS CONDITIONS IN THE FIELD DICTATE THE USE OF TYPE "A" BEDDING, AS
- WN ARE THE MAXIMUM ALLOWABLE SLOPE. IF SITE CONDITIONS OR OTHER ISSUES, SUCH AS AGE CAUSE SLOPE FAILURE, IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO CORRECT THE INTENT OF THE DESIGN. CONTRACTOR IS TO NOTIFY ENGINEER IMMEDIATELY OF THESE NEER MAY ASSIST WITH THE CORRECTIVE ACTION.
- HIS PLAN SET, MUST MEET THE FOLLOWING STANDARDS: PP PIPE (12 INCHES TO 60 INCHES) RM DRAIN, AND OTHER SPECIFIED APPLICATIONS SHALL MEET THE REQUIREMENTS OF

G & MARKING NOTES:

- ONFORM TO CITY OF GREEN COVE SPRINGS AND/OR FDOT SPECIFICATIONS. MENT MARKINGS AT THE BEGINNING AND ENDING OF PROJECT AND ALL SIDE STREETS.
- ED IN ACCORDANCE WITH INDEX NO. 700-010, AND 700-101.
- TIONS SHOWN ON PLANS WHICH ARE IN CONFLICT WITH LIGHTING, UTILITIES, DRIVEWAYS, L BE ADJUSTED AS DIRECTED BY ENGINEER.
- REMOVED SHALL BE DELIVERED AND STOCKPILED ON SITE IN THE MATERIALS STORAGE TO THE OWNER.
- D MARKING, IF ANY, SHALL BE INCLUDED IN THE COSTS FOR PAVEMENT.
- **ITION NOTES:** TALLY OF TREES TO BE REMOVED.
- EMAIN IN PLACE AND UNHARMED UNLESS SPECIFICALLY INDICATED OTHERWISE BY THE
- DEMOLITION PLAN (SHEET 5). RESPONSIBLE FOR PROPERLY ABANDONING WELLS OR SEPTIC SYSTEMS FOUND DURING NDONMENT SHALL BE IN ACCORDANCE WITH ALL CITY, STATE REGULATIONS, PER THE ORTH IN THE F.A.C.

ER NOTES: WER NOTES ON 3

- L NOTES: TIVITY INVOLVING EXCAVATION, DENUDING OR DEMOLITION OF ANY SITE SURFACE OR EARTHEN OR AUDIBLE MATERIALS SHALL BEGIN WITHOUT AN APPROVED PLAN AND/OR THE CITY OF GREEN COVE SPRINGS PUBLIC WORKS.
- ALL ESTABLISH ALL EROSION CONTROL MEASURES PRIOR TO EXCAVATION, DENUDING OR ITE SURFACE OR STOCKPILING OF ANY EARTHEN OR ERODIBLE MATERIALS.
- ALL MAINTAIN ALL EROSION CONTROL MEASURES THROUGHOUT THE DEVELOPMENT OF THE NOT REMOVE ANY EROSION CONTROL MEASURE UNTIL ALL CONTRIBUTING SITE SURFACES E BEEN ESTABLISHED AND STABILIZED.
- ALL PERFORM DAILY CLEAN UP OF ALL SEDIMENT AND DEBRIS WHICH LEAVES THE PROJECT
- RESPONSIBLE FOR CLEANING ALL CITY STORM DRAIN SYSTEMS WHICH RECEIVE SEDIMENT LT OF CONSTRUCTION, STOCKPILING OR DISPOSAL ACTIVITIES. CLEANING OF THE STORM OM THE POINT OF INTERCEPT TO THE OUTFALL OF THE SYSTEM OR TO A POINT WITHIN THE MENT OR DEBRIS IS NO LONGER PRESENT.
- Y THE CONTRACTOR, DO NOT EXCUSE THE CONTRACTOR OF DAILY INSPECTION AND
- SITE EROSION CONTROL MEASURES AND CLEANUP.
- CTION SYSTEMS MUST BE MUCKED OUT WHEN 1/3 FULL, MUCKED SEDIMENT MUST BE AND DISPOSED.
- CAPE NOTES: AND SITE LIGHTING CONDUITS BEFORE LANDSCAPE CONSTRUCTION BEGINS.
- RCHITECT OR DESIGNATED REPRESENTATIVE OF ANY LAYOUT DISCREPANCIES PRIOR TO
- AT THE TIME OF PLANTING WITH TIME RELEASE FERTILIZER.
- L CONFORM TO THE STANDARDS FOR GRADE #1 OR BETTER AS GIVEN IN THE LATEST RDS FOR NURSERY PLANTS, PARTS I AND II", FLORIDA DEPARTMENT OF AGRICULTURE AND OR TO THE STANDARDS AS GIVEN IN THE LATEST "AMERICAN STANDARD FOR NURSERY TIONAL STANDARDS INSTITUTE.
- DOD AND PRUNE TREES ACCORDING TO THE PRUNING GUIDELINES BY THE INTERNATIONAL ULTURE, 1995 EDITION. IF ARBORIST BELIEVES A LIMB SHOULD NOT BE REMOVED THE TACT THE LANDSCAPE DESIGNER. REMOVE ALL DEBRIS FROM THE SITE TO AN APPROVED OLLOW THE "AMERICAN NATIONAL STANDARDS FOR TREE CARE OPERATIONS" AND ANSI
- MINIMUM HEIGHTS OF (8) EIGHT TO (10) TEN FEET AND (2) TWO INCHES OF CALIPER.
- S MUST BE STABILIZED BY MEANS OF MULCH, SEEDING, OR SOD AS CALLED OUT ON THIS REA IS OUTSIDE OF THE LIMITS OF THIS PLAN, AREAS MUST BE STABILIZED WITH EXISTING I.E. SEEDING OR SODDING.
- CEEDS TWENTY-FIVE (25) FEET IN HEIGHT AT MATURITY SHOULD NOT BE PLANTED CLOSER F THE VERTICAL PLANE OF AN EXISTING POWER LINE, EXCLUDING SERVICE WIRES.

- 9. BALLED AND BURLAPPED STRAPPING WIRE, AND ANY SYNTHETIC MATERIAL SHALL BE REMOVED PRIOR TO FINAL INSPECTION. WIRE BASKETS SHOULD BE PULLED AWAY FROM THE TRUNKS. WIRE BASKETS SHOULD BE CUT AWAY FROM THE TOP 1/3 OF THE ROOT BALL.
- 10. TREES SHALL NOT BE PLANTED CLOSER THAN TEN (10) FEET FROM OTHER TREES UNLESS APPROVED BY THE CITY ADMINISTRATOR. CANOPY TREES SHOULD BE SPACED A MINIMUM OF 20' TO 30'. 11. A MULCH RING OF PINE STRAW OR PINE BARK SHALL BE PROVIDED AT LEAST FIVE (5) FEET IN DIAMETER AND NOT CLOSER THAN SIX (6) INCHES FROM THE TREE TRUNK, FOR ALL NEWLY PLANTED TREES.
- 12. PINE STRAW OR PINE BARK MULCH SHALL BE PROVIDED A MINIMUM OF FOUR (4) INCHES OF DEPTH AROUND ALL NEWLY PLANTED LANDSCAPING.
- 13. SHRUB LINES ARE TO BE PLANTED AT THE REQUIRED MINIMUM HEIGHT, NOT BY A CONTAINER SIZE.
- 14. SOIL IN TREE ISLANDS SHALL HAVE AT LEAST 12" OF SUITABLE SOIL FOR TREE PLANTINGS, AND BE VOID OF ANY CONSTRUCTION DEBRIS OR UNSUITABLE MATERIAL.
- 15. IRRIGATION SHALL BE PROVIDED WITH AN AUTOMATIC IRRIGATION SYSTEM FOR ALL NEWLY PLANTED MATERIAL. UNLESS AN ALTERNATE MEANS IS APPROVED, ALL TREES SHALL BE IRRIGATED BY BUBBLER TYPE EMITTERS.
- 16. TREES SHALL NOT BE PLANTED CLOSER THAN 7.5' FROM THE CENTERLINE OF UNDERGROUND UTILITIES.
- 17. UNLESS OTHERWISE SPECIFIED, NO HIGH VOLUME IRRIGATION IS PROPOSED ON THESE PLANS.
- 18. UNLESS OTHERWISE SPECIFIED, ALL SOD SHALL BE BAHIA.
- **ROW IMPROVEMENT NOTES:**
- 1. ALL EXISTING UTILITIES ARE TO BE ADJUSTED TO FINAL GRADE. 2. CONTRACTOR SHALL REMOVE ANY CONFLICTING STRIPING.
- ST JOHNS COUNTY NOTES:
- SUBMITTAL OF AS-BUILT SITE SURVEY, INCLUDING BENCHMARKS, IS REQUIRED IN COMPLIANCE WITH SECTION 6.04.00 OF THE LATEST ST. JOHNS COUNTY LAND DEVELOPMENT CODE AND SECTION 15 (AS-BUILTS) OF THE DEVELOPMENT REVIEW MANUAL PRIOR TO SCHEDULING A FINAL INSPECTION OF THE WORK.
- 2. ST. JOHNS COUNTY DEVELOPMENT REVIEW INSPECTOR SHALL BE CONTACTED 24 HOURS PRIOR TO ALL NECESSARY SITE WORK INSPECTIONS AND 5 DAYS PRIOR TO FINAL INSPECTION.
- 3. THERE ARE TWO PAVEMENT REQUIREMENTS: LDC 6.04.07.G.3 (ROAD CONSTRUCTION) & LDC 6.04.08 (BORING) 4. ALL SUBDIVISION PLANS APPROVED AFTER 5/28/08 ARE SUBJECT TO THE TWO LIFT PAVING REQUIREMENTS AS DETAILED IN THE ABOVE LAND DEVELOPMENT CODE SECTIONS. IN SUMMARY: THE FINAL WEARING SURFACE LAYER IS NOT TO BE APPLIED UNTIL 90% OF THE C/O'S HAVE BEEN ISSUED AND THE IMPROVEMENTS HAVE BEEN INSPECTED AND ACCEPTED BY THE COUNTY. UNTIL THE FINAL SURFACE HAS BEEN APPLIED AND ACCEPTED, BONDING FOR THIS WORK IS TO REMAIN IN PLACE.
- ALL DRAINAGE PIPES INSTALLED WITHIN ROADWAY RIGHT-OF-WAYS/EASEMENTS (PUBLIC OR PRIVATE) SHALL BE TELEVISED BY A COMPANY OR INDIVIDUAL CERTIFIED TO PERFORM SUCH WORK PER LDC 6.04.07.L.5G. THIS REQUIREMENT MAY ONLY BE WAIVED ON COMMERCIAL SITES IF THE ENGINEER OF RECORD CERTIFIES BY LETTER THAT THE SITE DOES NOT RECEIVE ANY RUNOFF FROM ST. JOHNS COUNTY RIGHT OF WAYS. IF THERE IS ANY CONNECTION OR RELATIONSHIP BETWEEN THE PROJECT SITE AND A COUNTY OWNED OR MAINTAINED DITCH, POND OR STRUCTURE, IT SHALL BE REQUIRED. THIS TELEVISING OF THE DRAINAGE LINE SHALL BE DONE IN COLOR AND SHALL BE OF SUCH QUALITY AS TO VISUALLY IDENTIFY THE PROPER CONSTRUCTION OF ALL JOINTS AND PIPE ALIGNMENT. A VIDEO TAPE SHALL BE PROVIDED TO THE COUNTY UPON COMPLETION. THE TELEVISING OF THE DRAINAGE LINES SHALL BE PREFORMED AFTER THE PLACEMENT OF THE BASE MATERIAL AND PRIOR TO THE FINAL WEARING SURFACE OF THE ROADWAY. THE APPROVAL, BY THE COUNTY. OF THE TELEVISING SHALL BE REQUIRED PRIOR TO THE PLACEMENT OF THE FINAL WEARING SURFACE OF THE ROADWAY. TELEVISED RECORD SHALL BE REVIEWED AND CERTIFIED BY THE ENGINEER OF RECORD (EOR).
- 6. IT IS THE RESPONSIBILITY OF THE APPLICANT TO SCHEDULE A PRE-CONSTRUCTION / PRE-PERMIT ISSUANCE MEETING WITH SJC STAFF AFTER PLANS HAVE BEEN RELEASED FOR CONSTRUCTION BY THE COUNTY, AND PRIOR TO STARTING ANY SITE ACTIVITIES. THE PRE-CONSTRUCTION MEETING WILL BE HELD IN CONJUNCTION WITH THE MANDATORY SJCUD PRE-CONSTRUCTION MEETING. HOWEVER, IF THE PROJECT FALLS OUTSIDE OF SJCUD JURISDICTION, PLEASE CALL CARL COLEE TO SCHEDULE MEETING.
- GENERAL FDOT DRIVEWAY CONNECTION NOTES: ALL WORK PERFORMED WITHIN THE DEPARTMENT RIGHT-OF-WAY SHALL CONFORM TO THE MOST CURRENT EDITION OF THE FOLLOWING PUBLICATIONS:
- A. STANDARD PLANS
- B. STANDARD SPECIFICATIONS C. FDOT DESIGN MANUAL
- D. FDOT FLEXIBLE PAVEMENT DESIGN MANUAL E. FDOT UTILITY ACCOMMODATION MANUAL
- (SHOULD A CONFLICT ARISE BETWEEN THE DETAILS SHOWN IN THE PLANS AND THE DEPARTMENT OF TRANSPORTATION STANDARDS THE ENGINEER/APPLICANT SHALL IMMEDIATELY CONFER WITH THE DEPARTMENT'S ENGINEER IN ORDER TO RESOLVE THE DISCREPANCY)
- 2. ALL TRAFFIC STRIPING AND MARKINGS ARE TO BE LEAD-FREE, NON-SOLVENT BASED THERMO PLASTIC.
- 3. REMOVAL OF EXISTING STRIPING SHALL BE ACCOMPLISHED USING THE "HYDRO-BLAST" METHOD. IF THIS PROCESS DAMAGES / SCARS PAVEMENT, THEN THE PAVEMENT SHALL BE MILLED AND RESURFACED PER FDOT STANDARDS.
- 4. ALL DIRECTIONAL ARROWS SHALL BE PLACED AS ONE SEGMENT.
- 5. ALIGNMENT OF PROPOSED PAVEMENT MARKINGS SHALL MATCH EXISTING PAVEMENT MARKINGS AT PAVEMENT MARKING LIMITS OF CONSTRUCTION.
- 6. ALL CURB AND GUTTER AND SIDEWALK, WILL BE REMOVED AND REPLACED JOINT TO JOINT.
- 7. ALL BROKEN / CRACKED DRIVEWAYS MUST BE FULLY REMOVED AND REPLACED.
- 8. ALL DISTURBED AREAS WITHIN THE DEPARTMENT'S RIGHT-OF-WAY WILL BE RESTORED TO ORIGINAL OR BETTER CONDITION BY GRADING AND SODDING THE AREA DISTURBED (BERMUDA IN URBAN, BAHIA IN RURAL).
- 9. BURNING OF ANY MATERIAL OR DEBRIS IS PROHIBITED IN FDOT RIGHT OF WAY.
- 10. ALL LANES MUST BE OPENED FOR TRAFFIC DURING AN EVACUATION NOTICE OF A HURRICANE OR OTHER CATASTROPHIC EVENT AND SHALL REMAIN OPEN FOR THE DURATION OF THE EVACUATION OR EVENT.
- **GENERAL FIRE PROTECTION NOTES:**
- FIRE PROTECTION FOR THE PURPOSE OF THESE PLANS IS ANY UNDERGROUND WATER LINE NOT OWNED AND MAINTAINED BY A PUBLIC UTILITY AS WELL AS ANY PRIVATE FIRE SERVICE MAIN AND PIPE AND ITS APPURTENANCES ON PRIVATE PROPERTY (1) BETWEEN A SOURCE OF WATER AND THE BASE OF THE SYSTEM RISER FOR WATER-BASED FIRE PROTECTION SYSTEMS, (2) BETWEEN A SOURCE OF WATER AND INLETS TO FOAM-MAKING SYSTEMS. (3) BETWEEN A SOURCE OF WATER AND THE BASE ELBOW OF PRIVATE HYDRANTS OR MONITOR NOZZLES AND (4) USED AS FIRE PUMP SUCTION AND DISCHARGE PIPING, (5) BEGINNING AT THE INLET SIDE OF THE CHECK VALVE ON A GRAVITY OR PRESSURE TANK.
- 2. THIS SHALL ALSO APPLY TO COMBINED SERVICE MAINS USED TO CARRY WATER FOR FIRE SERVICE AND OTHER USES, I.E. DOMESTIC.
- 3. STANDARDS TO BE REFERENCED ARE TO BE THE MOST CURRENT AS ADOPTED BY THE FLORIDA FIRE PREVENTION CODE: NFPA 24, INSTALLATION OF PRIVATE FIRE SERVICE MAINS & THEIR APPURTENANCES
- NFPA 20, STANDARD FOR INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION NFPA 22, STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION
- NFPA 16, STANDARD ON DELUGE FOAM-WATER SPRINKLER & FOAM-WATER SPRAY SYSTEMS NFPA 1963 STANDARD FOR FIRE HOSE CONNECTIONS
- 4. ITEMS ON THE CONSTRUCTION PLANS SHALL INCLUDE BUT NOT LIMITED TO SCALE DRAWINGS AND DETAILS AND TO INCLUDE THE FOLLOWING ITEMS WHEN THEY ARE APPLICABLE TO THE SYSTEM BEING INSTALLED:
- A. NAME OF OWNER AND OCCUPANT.
- B. LOCATION, INCLUDING STREET ADDRESS. POINT OF COMPASS.
- A GRAPHIC REPRESENTATION OF THE SCALE USED ON ALL PLANS.
- NAME AND ADDRESS OF CONTRACTOR. SIZE AND LOCATION OF ALL WATER SUPPLIES.
- G. SIZE AND LOCATION OF ALL PIPING, INDICATING, WHERE POSSIBLE, THE CLASS AND TYPE AND DEPTH OF EXISTING PIPE, THE CLASS AND TYPE OF NEW PIPE TO BE INSTALLED, AND THE DEPTH TO WHICH IT IS TO BE BURIED
- H. SIZE, TYPE, AND LOCATION OF VALVES. INDICATE IF LOCATED IN PIT OR IF OPERATION IS BY POST INDICATOR OR KEY WRENCH THROUGH A CURB BOX.
- LOCATION OF FIRE DEPARTMENT CONNECTIONS, IF PART OF PRIVATE FIRE SERVICE MAIN SYSTEM, INCLUDING DETAIL OF CONNECTIONS. SPRINKLER AND STANDPIPE RISERS AND MONITOR NOZZLES TO BE SUPPLIED BY THE SYSTEM.
- K. LOCATION OF FIRE DEPARTMENT CONNECTIONS, IF PART OF PRIVATE FIRE SERVICE MAIN SYSTEM,

L. ALL COMPONENTS MUST HAVE LISTIN M. ALL FIRE HYDRANTS INSTALLED IN S TWO (2.5) INCH HOUSE OUTLETS, ALL A COPY THESE APPROVED ENGINEERED PL/ PERMIT SUBMITTED BY A CERTIFIED CONTR, DETAILS AND SPECS AT THE TIME OF SUBMI	AG WITH FIRE PROTECTION PER NFPA 24. T. JOHNS COUNTY MUST HAVE A SINGLE 4.5 INCH HOS WITH MALE NH STANDARD THREADS, IN ACCORDANG ANS SHALL ACCOMPANY A REQUIRED FIRE MARSHAL ACTOR. THIS UNDERGROUND PERMIT WILL REQUIRE TTAL TO THE FIRE MARSHAL'S OFFICE.	SE OUTLET, AND CE WITH NFPA 19 UNDERGROUND ADDITIONAL	63.				EGISTERED ENGINEEF
CONTRACTORS INSTALLING THE UNDERGRO STANDARDS FOR A FIRE PROTECTION SYSTI POINT AT WHICH THE PIPING IS USED EXCLU	DUND PIPING IN ACCORDANCE WITH THE ABOVE REFE EM USING WATER AS THE EXTINGUISHING AGENT BE ISIVELY FOR FIRE PROTECTION AND ENDING NO MOR	ERENCE GINNING AT THE E THAN 1 FOOT					E E E E E E E E E E E E E E E E E E E
ABOVE THE FLOOR SHALL BE REQUIRED TO PURSUANT TO CHAPTER 633, FLORIDA STAT RESPONSIBLE FOR VERIFYING THAT THEIR S FOUND TO BE VIOLATING THIS REQUIREMEN PROFESSIONAL REGULATION AND/OR THE S	HAVE A CLASS I, II, OR V FIRE PROTECTION CONTRAC UTES. GENERAL CONTRACTORS ARE REMINDED THA SUBCONTRACTORS HOLD THE REQUIRED LICENSES. IT MAY BE REPORTED TO THE DEPARTMENT OF BUSII TATE FIRE MARSHAL'S REGULATORY LICENSING SEC	CTORS LICENSE T THEY ARE CONTRACTORS NESS AND TION.					
THE CONTRACTOR SHALL BE RESPONSIBLE THE START OF SITE CONSTRUCTION IN ACC	FOR OBTAINING A PERMIT FROM THE FIRE MARSHAL ORDANCE WITH THE ABOVE REFERENCED STANDARI	S OFFICE PRIOR)S.	ТО				
NOTE: MINIMUM WORKING PRESSURE OF TH SPECIFIC PVC PIPING TO MEET TABLE C-900	E UNDERGROUND PIPING SHALL BE 150 PSI. NFPA 24 WITH MANUFACTURING LISTING FOR FIRE PROTECTI	REQUIRES ON.					
ALL FIRE LINES MUST BE INSPECTED BY THE JOINTS EXPOSED FOR INSPECTION WITH FIL SUBJECTED TO SYSTEM WORKING PRESSUF OF THE SYSTEM WORKING PRESSURE, WHIC LOSS FOR 2 HOURS.	E FIRE MARSHAL'S OFFICE PRIOR TO BACKFILL. THE C L IN-BETWEEN JOINTS. ALL PIPING AND ATTACHED AI RE SHALL BE HYDROSTATICALLY TESTED AT 200 PSI (CHEVER IS GREATER, AND SHALL MAINTAIN THAT PRE	ODE REQUIRES A PPURTENANCES OR 50 PSI IN EXCE SSURE WITHOUT	ALL ESS F	REVISIONS	DESCRIPTION		
EXISTING LEGEND			DDEVIATIONS		P D P		
	PROPERTY / RIGHT OF WAY LINE WETLAND LINE	ABBREVIATIO	BREVIATIONS N DESCRIPTION		RFVI		
	CURB & GUTTER	A AC	ARC ACRE		25		<u> </u>
	WETLANDS	BOC BFP	BACK OF CURB BACK FLOW PREVENTER		DATE 4-02-		
× XX.XX ×	SPOT ELEVATION	BLDG BM	BUILDING BENCHMARK	-	<u>ح</u> ن		
ss	GRAVITY SEWER	BOTT CI	BOTTOM CURB INLET		ž ſ		
	• WATER MAIN	CO CB	CLEANOUT CHORD BEARING	S	S	∢	-25
	- MAJOR CONTOUR - MINOR CONTOUR	CH CMP	CHORD CORRUGATED METAL PIPE	ĬQ	D	AR.	03-12
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PROPOSED LEGEND		CONT COORD	CONTINUATION	SGNBY	WG BY:	HK BY:	ATE:
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	UTILITY EASEMENT LINE ROADWAY CENTERLINE	DHW					
· · · · · · · · ·	BUILDING SETBACK LINE CURB & GUTTER						
XX.XX		EOP	EAST EDGE OF PAVEMENT				
2:1	SLOPE INDICATOR	EL	ELEVATION ELLIPTICAL REINFORCED				547
$ \rightarrow \rightarrow \rightarrow -$	DRAINAGE SWALE / FLOW DIRECTION	ESMT	CONCRETE PIPE EASEMENT			ΞET	26.4:
\mathbf{X}	EXISTING TREE TO BE REMOVED	EXIST FF	EXISTING FINISH FLOOR		J	TRE	084)4.82
	EXISTING TREE TO BE SAVED	FH FL	FIRE HYDRANT FLOW LINE			S O S	L 32 X: 9(
		FM FP	FORCE MAIN FIRE PROTECTION MAIN			ALL	E, FI FA y
		FV GV	FLUSHING VALVE		٨	M L	11N 4 •
	STORM PIPE STORM DITCH BOTTOM INI FT	HDPE	HIGH DENSITY POLYETHYLENE		>	26,	5.13 5.13
	CURB INLET	HWL	HIGH WATER LEVEL		> 11	X 31	AUC 4.82(
<u> </u>	MITERED END SECTION					BO	51. : 902
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XX.XX TC XX.XX EP		MIN N	MINIMUM NORTH		Š		
6	MAJOR CONTOUR	NIC NG	NOT IN CONTRACT NATURAL GRADE				
	MINOR CONTOUR DRAINAGE DIVIDE	NTS NWL	NOT TO SCALE NORMAL WATER LEVEL				
~~~~~ %SI OPE	FLOW DIRECTION	PC PCC	POINT OF CURVATURE POINT OF COMPOUND CURVE				
	SLOPE SILT FENCE	PI POB	POINT OF INTERSECTION POINT OF BEGINNING			~	
CRP-1	CONSTRUCTION REFERENCE POINT	PRC PT	POINT OF REVERSE CURVE POINT OF TANGENCY		して	<u>כ</u>	
ww	PROPOSED WATER MAIN W/SIZE PROPOSED GATE VALVE W/BOX AND COVER	PVC	POINT OF VERTICAL CURVATURE				
ॐ►►	FIRE HYDRANT ASSEMBLY	PVI	POINT OF VERTICAL INFLECTION				
↔ + (≱	SINGLE WATER SERVICE	PVT	TANGENCY		0	2	_
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UTILITY EASEMENT

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# OUTLINE SPECIFICATIONS FOR CONSTRUCTION OF SEWAGE COLLECTION SYSTEM

01. INTENTION. It is the declared and acknowledged intention to secure a new sewerage system, complete, in accordance with the plans, specifications, and contract documents. All new work shall be in accordance with the City of Green Cove Springs Specifications and Details and with C.G.C.S. Approved Materials Manual and C.G.C.S. Public Works Department Details and Specifications and any other Government Regulatory Agency. All work shall conform to the above whether or not specifically called out or noted on the plans.

02. GENERAL. All materials shall be of those listed in the C.G.C.S. Approved Materials Manual. The installation shall be warranted by the Contractor as to materials, workmanship and accuracy of the As-built drawings for a period of two years from the date of completion of the work or beneficial use of the facilities. Workmanship shall be of good quality; i.e., sewers shall be laid true to line and grade, fittings shall be properly installed and restrained, trenches shall be properly excavated and backfilled, manholes shall be installed at locations and to elevations shown on the plans.

02.1 CONTRACTOR LICENSE AND APPROVAL. Utility reserves the right to approve or deny approval of contractor prior to construction of any on-site or off-site utility facilities. Contractor must hold a State Of Florida Under Ground Utility contractors license, that named contracting company being the one doing the work on project, and demonstrate acceptable experience in the field of utility construction.

03. SURVEYS. The Utility Contractor shall provide all surveys necessary for the layout and construction of the work of his contract.

04. EARTHWORK. Earthwork shall include all excavation, fill and backfill (hand/machine), compaction and rough grading of materials encountered. No unsuitable materials clay, muck, or peat removed from pipe trenches are to be used for backfill. All fill or backfill shall be either sand or sandy clay, free of roots, trash or other debris. All backfill alongside of and to a height twenty-four inches above all pipe shall be free of clay or organic material, compacted in lifts, the first of which shall be to the spring line of the pipe by either hand or machine operation carefully to 98%. All other backfill shall be compacted by either hand or machine operation carefully to 95% (outside of paving), 98% (under paving) of its optimum moisture content as determined by ASTM D698, latest. Copies of compaction density test reports from a licensed testing agency shall be made available to C.G.C.S. if requested.

05. MANHOLES. Manhole bases, sections and cones shall conform to the requirements of ASTM C478, Specifications for Precast Reinforced Concrete Manhole Sections. Cement shall meet the requirements of ASTM C150, Specifications for Portland Cement, Type II. Concrete shall meet the minimum requirements for Class "A" Concrete Work. Minimum wall thickness shall be 1/12 the inside diameter in inches plus one (1) inch. Bases for manholes shall be cast integrally with the bottom manhole section. Joint contact surfaces shall be formed with machined castings; they shall be exactly parallel with a 2 degree slope and nominal 1/16 inch clearance with the tongue equipped with a proper recess for the installation of an O-ring rubber gasket, conforming to ASTM C443. Joints for circular Concrete sewer and Culvert pipe using Rubber gasket, or RAM-NEK premolded Plastic Joint Sealer with joints Manhole adjustment materials shall be Precast concrete adjustment rings only as manufactured by Taylor Precast Co. (or equal). Precast manhole walls shall not be coated, unless otherwise noted. Cement arout for manhole bottoms shall be a stiff rich mix of Type II Portland Cement and sharp plaster sand. Calcium chloride may be added (maximum of 2%) to aid in obtaining a faster set. At permanent pump station locations, the first upstream manhole from the station shall be lined with a polyethylene liner as manufactured and installed by Taylor Precast Co. or approved equal.

05.1 CAST IRON MANHOLE FRAMES AND COVERS. Cast iron manhole frames and covers shall be as detailed on drawings. Castings shall meet the requirements of ASTM A48, Specifications for Gray Iron Castings, Class No. 30, or Grade 65-45-12, Ductile Iron meeting the requirements of ASTM A536, Standard Specification for Ductile Iron Castings. In either case, manhole frame and cover shall be designed to withstand an HS20-44 loading defined in the AASHTO Specifications. Frames and covers shall be machined or ground at touching surfaces so as to seat firmly and prevent rocking.

05.2 FLEXIBLE MANHOLE CONNECTOR. All connections between sewer pipe and pre-cast concrete manholes shall be accomplished by a Flexible Connector, "Kor-N-Seal", as manufactured by National Pollution Control Systems, Inc. or approved equal.

05.3 FLOW CHANNELS. Flow channels in manhole base shall be formed of D.O.T. Class I, Type II cement grout with brick or rubble and trowel to a smooth surface finish. Grout surface shall be 1" min. thickness over brick or rubble. While the manholes are under construction, cut off pipes at inside face of the manhole and construct the invert to the shape and sizes of pipe indicated. All inverts shall provide a constant gradient from influent pipe to effluent pipe through manhole. Changes in direction of the sewer and entering branch or branches shall be laid out in smooth curves of the longest possible radius which is tangent to the center lines of adjoining pipelines.

05.4 DROP INLETS. Where shown on the drawings, drop inlets to the manholes shall be constructed as shown on the drawings and specified herein.

06. POLYVINYL CHLORIDE PIPE. Polyvinyl Chloride Sewer Pipe shall conform to the requirements of ASTM D-3034, SDR 26. The PVC compound conforming to ASTM D-1784. Pipe shall be clearly marked in 5 Ft. intervals or less, indicating manufacturers name, nominal size, cell classification and legend. Joints shall be push-on rubber gasketed, conforming to ASTM D-3034. Pipe and fittings shall be installed in accordance with recommended practice ASTM D-2321. Maximum depth of gravity sewer without prior approval shall be 15 feet. Sewers over 15' in depth shall be DR-18 P.V.C. pipe and shall have C.G.C.S. approval prior to design or installation of said sewer.

07. PIPE BETWEEN MANHOLES. All piping installed between manholes shall be the same material and class. No dissimilar pipe material will be allowed anywhere within a single run of pipe.

08. SANITARY SERVICE LATERALS. Sanitary service laterals shall be Polyvinyl Chloride Pipe conforming to the requirements of ASTM D-3034, SDR 26 where cover over top of pipe is 36 inches or greater. Where cover over top of pipe is less than 36 inches, specific construction conditions shall be directed by the City of Green Cove Springs. All sanitary service laterals shall be a minimum of 4'-0'' deep at the right-of-way line to top of pipe. Any sanitary service lateral which must be more than 5'-0'' deep shall not be installed prior to obtaining permission from the C.G.C.S. field inspector or C.G.C.S. Public Works Department. All sanitary service laterals shall be 6-inch diameter from the main to the right-of-way line with a minimum slope of 0.60% (0.6 feet per hundred feet). In single family residential developments, services shall reduce to 4" in size and terminated at the property line with a cleanout constructed of a PVC wye and bend with a maximum angle of 45 degrees (see Standard Sewer System Cleanout Detail) utilizing the proper fittings for the type of pipe specified.

09. FORCE MAINS. Force mains shall be C900 DR-18 PVC and conform to the requirements of ASTM D-1784, D-2241, D-3139 and F-477. Pipe shall be color coded and marked "FORCE MAIN" on at least two sides and at every 12" along the barrel of the pipe. Ductile iron pipe for force main service shall be polylined. Ductile iron pipe is not to be used without prior approval of the Clay County Utility Authority. Fittings shall be C110 gray iron and shall be polylined. Force mains less than 3" shall be SCH.80 PVC. All force mains shall be installed with tracer wire per C.G.C.S. standard location wire details.

09.1 LIFT STATION VALVES. Plug valves shall be Dezurik, Clow or M&H. with full port opening. Check valves shall be M&H, Mueller or American Darling.

09.2 FORCE MAIN VALVE. Gate valve, resilient seated, same as specified in Water Distribution System Specifications Section 12 below. Except valve bodies shall be gray iron. Valve box shall have the word "SEWER" cast into the cover.

09.3 FORCE MAIN JOINT RESTRAINT. All fittings shall be properly and adequately restrained against lateral movement at all force main tees, crosses, valves and bends. Restrainers shall be Uni-Flange Series 1300, 1350, 1390 or approved equal installed per manufacturer's recommendations and C.G.C.S. standard details and specifications.

## OUTLINE SPECIFICATIONS FOR CONSTRUCTION OF WATER DISTRIBUTION SYSTEM

01. INTENTION. It is the declared and acknowledged intention to secure a new water distribution system, complete, in accordance with the plans and specifications, and contract documents. All new work shall be in accordance with C.G.C.S. Specifications and Details and Approved Materials Manual and C.G.C.S. Public Works Department Details and Specifications and any other Government Regulatory Agency. All work shall conform to the above whether or not specifically called out or noted on the plans.

02.1 CONTRACTOR LICENSE AND APPROVAL. Utility reserves the right to approve or deny approval of contractor prior to construction of any on-site or off-site utility facilities. Contractor must hold a State Of Florida Under Ground Utility contractors license, that named contracting company being the one doing the work on project, and demonstrate acceptable experience in the field of utility construction.

02. GENERAL. All materials shall be of those listed in the C.G.C.S. Approved Materials Manual. Materials shall be warranted by the Contractor as to materials, workmanship and accuracy of As-built drawings for a period of two years from the date of completion of the work or beneficial use of the facilities. Workmanship shall be of good quality; i.e., mains shall be laid in a uniform alignment, fittings shall be properly restrained, trenches shall be properly excavated and backfilled, fire hydrants and valve boxes shall be adjusted to finished grade. All water mains shall be installed with tracer wire per C.G.C.S. standard location wire details.

03. SURVEYS. The Utility Contractor shall provide all surveys necessary for the layout and construction of the work of his contract.

04. EARTHWORK. Earthwork shall include all excavation, fill and backfill (hand/machine), compaction and rough grading of materials encountered. No unsuitable materials clay, muck, or peat removed from pipe trenches are to be used for backfill. All fill or backfill shall be either sand or sandy clay, free of roots, trash or other debris. All backfill alongside of and to a height twenty-four inches above all pipe shall be free of clay or organic material, compacted by either hand or machine operation carefully to 98%. All other backfill shall be compacted by either hand or machine operation carefully to 95% (outside of paving), 98% (under paving) of its optimum moisture content as determined by ASTM D698, latest. Copies of compaction density test reports from a licensed testing agency shall be made available to C.G.C.S. if requested.

05. JOINT RESTRAINT. All fittings shall be properly and adequately restrained against lateral movement at all water main tees, crosses, valves bends and fire hydrants. Restrainers shall be Uni-Flange Series 1300, 1350, 1390 or approved equal installed per manufacturer's recommendations and C.G.C.S. Details and Specifications.

06. DUCTILE IRON PIPE. Ductile iron pipe shall conform to ANSI Specification A21.50 (AWWA C150) latest, "Thickness Design of Ductile Iron Pipe", Table 50.5, laying condition Type 2, internal operating pressure of 250 p.s.i. for an 8-foot depth of cover, Class 51 minimum and shall be ANSI A21.51 (AWWA C151), latest centrifugally cast pipe. Laying lengths shall each length clearly marked with pressure rating, thickness be 20 feet or less, class, height of pipe without lining, length, and manufacturer. Ductile iron pipe for water service shall be furnished with cement lining per AWWA C110, C115 and C151. The pipe shall have design values of 60,000 P.S.I. minimum tensile strength, and 42,000 P.S.I. minimum yield strength. Ductile iron pipe for water or service lines shall be used in any easement, right-of-way, between lots, and any instance where a building foundation or other permanent appurtenance is within 10' of the water main or a service line larger than 3".

07. DUCTILE IRON FITTINGS shall be C153 cement lined and suitable for the type and class of pipe to which connected. Gaskets shall be suitable for potable, domestic water service. Minimum working pressure shall be 150 P.S.I.

08. POLYVINYL CHLORIDE PIPE. Polyvinyl chloride pipe for water mains 4 inch in diameter and larger, shall be P.V.C. C900, DR-18, conforming to ASTM D-1784, D-2241, D-3139 and F-477, latest, and shall bear the seal of the National Sanitation Foundation. Pipe shall be color coded and marked on at least 2 sides with the word "WATER" and at every 12" along the barrel of the pipe. Couplings shall be rubber gasketed, push-on type conforming to ASTM D-2122. DR-18 shall be used for fire mains.

09. STEEL CASING PIPE. Steel casing pipe shall be of size indicated on the Drawings and shall conform to ASTM A139, with a minimum yield strength of 35,000 p.s.i.
10. POLYETHYLENE PIPE shall be SDR 9, AWWA C901, ASTM

D2737, PE 3408, colored blue, NSF Seal, with Type 316 stainless steel inserts. Fittings shall be suitable for type of installation required. All piping smaller than 4" shall be Polyethylene.

11. GATE VALVES AND BOXES. Gate valves shall be non-rising stem type and shall be suitable for a 200 p.s.i. non-shock working pressure Gate valves shall be mechanical joint, flanged or screwed. Gate valves shall have a 2" operating nut and open left. Gate valves shall have joints suitable for the type of main on which installed. Valves 2" & 3" shall be iron body, bronze fitted (distribution mains only). Valves 4" and larger shall be iron body, bronze fitted with resilient seat. Valves shall be of domestic (American) manufacture and shall be A.F.C., M&H, Mueller or approved equal. Valves 16" and larger shall be AWWA C-509, M&H Valve Co. Valve boxes with screw extensions shall be provided for all gate valves. Boxes shall be of cast iron construction, 7/32" minimum wall thickness and shall be nontacky tar enamel coated. The word "WATER" shall be cast in the cover. Other ball valves 2" and smaller shall be Ford Ball Valve or Mueller with F.I.P.T.

12. WATER METER BOXES. Meter boxes for flushing hydrants and 3/4" meters shall be DFW Plastics, Inc., model DFW36C-12-3T. Meter boxes for 1" meters shall be DFW Plastics, Inc., model DFW37C-12-3T. Meter boxes for 1-1/2" and 2" meters shall be DFW Plastics, Inc., model DFW1730C-12-3T. Developer shall be responsible for installation of meter boxes on all water services as part of the water main installation. All curb stops shall be adjusted to the proper elevation and shall be accessible for the installation of the water meter. The contractor shall be required to open all boxes for the C.G.C.S. inspector at the final inspection. A treated 6'-6" fence post marker shall be painted blue for identification.

13. CURB STOPS. Curb stops shall be cast bronze, inverted key stop, roundway, with check, lock wing type, for locking in the closed position. Curb stops shall be Ford Ball Valve or Mueller.

14. CORP STOPS. Corp stops shall be cast bronze, inverted key stop, roundway, with check, lock wing type, for locking in the closed position. Corp stops shall be Ford Ball Valve or Mueller.

15. FIRE HYDRANTS. Fire hydrants shall be traffic type, 150 pound working pressure, AWWA Standard C502, latest revisions, with two 2 1/2" nozzles, one 4 1/2" nozzle and 5 1/4" main valve. Fire hydrant shall be be compression type with breakable coupling and bolts. Pipe connection shall be mechanical joint. American Flow Control, AFC B-84-B, painted red w/white bonnets and with 1 1/2" penta nuts, opening left.

16. INSTALLATION. The minimum cover over top of potable water main shall be 36" minimum. All water lines and appurtenances shall be thoroughly cleaned of all foreign matter before being lowered into the trench and shall be kept clean during laying operations by means of plugs or other approved methods. All pipe shall be checked for defects before being lowered into the trench. Defective pipe shall not be used. Pipe found to be defective, after installation, shall be removed and replaced with sound pipe at no additional expense to the Owner. The full length of each section of pipe shall rest solidly upon the pipe bed, with recesses excavated to accommodate the bells and joints. All pipe that has the grade or joint disturbed after laying shall be taken up and reinstalled. The pipe shall not be laid in water, or, when trench or weather conditions are unsuitable for the work. All joints shall be cleaned of all foreign matter before making the joint. Fittings at bends in the pipe shall be properly restrained with joint restrainers adequately sized to prevent movement and dislocating or blowing off when the line is under pressure. Service laterals shall terminate at the point noted in the details.

17. TESTS. After the pipe is laid, the joints completed, and the trench backfilled, the newly laid pipe and appurtenances shall be subjected to a Hydrostatic and Leakage test of 150 pounds per square inch for a

09.4 FORCE MAIN PIPE FLUSHING. All force main piping shall be flushed clean with water utilizing full pipe diameter flushing for all piping up to and including 8" diameter.

10. INSTALLATION. All sewer lines, manholes, and appurtenances shall be constructed to the dimensions and elevations indicated on the drawings. Trenches shall be excavated to a width approximately twelve inches greater than the outside diameter of the pipe. Machine excavation shall be to a depth one-fourth pipe diameter above proposed pipe grade; the remaining depth shall be hand excavated and shaped to give full support to the lower one-fourth of each pipe. Each section of pipe shall be inspected for defects prior to being lowered into the trench. The inside of each bell and the outside of each spigot shall be thoroughly cleaned of all foreign matter, prior to making the joint. All sewer lines shall be constructed with the spigot ends pointing in the direction of the flow. Both the bell and the spigot of each joint shall be lubricated with the lubricant recommended by the pipe manufacturer. All sewer lines shall be cleaned of foreign matter as construction progresses, and shall be in a clean condition upon completion of construction operations. Pipe materials shall remain the same on runs between manholes and / or other structures.

11. INSPECTIONS. Each section of the completed sewer system shall be inspected for proper alignment. Inspection shall consist of "lamping" from manhole to manhole. Any section of the sewer system which does not display true, concentric alignment shall be reinstalled at no additional expense to the Owner. A written log of inspection shall be kept indicating location of test, potential problems in sewer, dips and depth of water, service locations, and other irregularities in the pipe lines. A video tape in VCR format shall be made of the television inspection and submitted to the Engineer and the City of GCS. Copies of compaction density test reports from a licensed testing agency shall be made available to City of GCS if requested.

11.1 Television inspection will be required on all new gravity sewers constructed. This service shall be provided by the Contractor as a part of this Contract. The newly constructed sewers shall be televised in the presence of the Inspector of the City of GCS. A full report as to the condition of pipe, type, depth, location of services, length, type, joint and distance between manholes, etc. shall be furnished to the City of GCS inspector prior to the final acceptance of the system. Any pipe found to be cracked, leaking or otherwise defective shall be removed and replaced with new pipe at no additional costs to the Owner. Deflection testing with 7.5% mandrel also required. Any section not passing the mandrel test shall be corrected. Sewer mains shall be televised after curb and lime rock are in place but prior to paving. Curb and limerock shall be installed, finish graded prior to televising the gravity sewer. Limerock priming and paving operations shall not take place until the City of GCS inspector has reviewed the television tape and approves the gravity sewer system. This will be strictly enforced. All gravity sewers must be flushed no sooner than 4 hours prior to any television inspection. Force main lines shall be pressure tested and approved prior to paving, but not prior to subgrade mixing operation and limerock installation, finish graded and compacted. Sewer services shall be viewed by a camera capable of viewing into service lateral connections. Adequate water must be placed within the upstream manhole to flow through the downstream manhole before inspecting with the camera. All work must be accomplished in the presence of the City of GCS inspector and a 48 hour notice must be provided. Contractor shall provide City of GCS with a 48 hr. notice of intent to televise and inspect sewer main. City of GCS inspector shall report to job site at the time specified by contractor at the time of the call-in. City of GCS inspectors will wait at the job site no more than one hour for the televising to begin before leaving the job site. Contractor shall reschedule televising giving City of GCS 48 hrs. notice if the above occurs.

11.2 TEST, INFILTRATION: After completion, the sewers or sections thereof, shall be tested and gauged for infiltration. To check the amount of infiltration, the Contractor, at no added compensation over the contract price for the sewers, shall furnish, and install and maintain a V-notch sharp crested weir in a wood frame on the main sewers as directed by the Engineer. Maximum allowable infiltration shall be 50 gallons per mile, per inch of dia. of sewer per 24 hour day at any time.

11.3 TEST, EXFILTRATION: In areas where ground water is not encountered in sewer construction, or it is desired to run exfiltration tests, the Contractor shall furnish and install all necessary materials, equipments, shall supply water, etc., and shall run exfiltration tests to determine acceptance of the sewer. The maximum allowable exfiltration shall be 50 gallons per mile per inch of diameter of sewer per 24 hour day at any time based on two foot minimum internal head.

period of at least two hours. During this period, all joints shall be inspected to determine water tightness of the system. Any leaks detected shall be corrected. Tests shall be in accordance with the C.G.C.S.'s requirements and specifications. Water main lines shall be pressure tested and approved prior to paving, but not prior to subgrade mixing operation and limerock installation, finish graded and compacted. If C.G.C.S. inspector detects the water main has been damaged during priming or paving he shall require the contractor to repair the water main and retest the water main.

18. STERILIZATION. After completion of construction and testing, the water system shall be sterilized with chlorine in accordance with AWWA Standard C651 latest, and State of Florida Department of Environmental Protection requirements before acceptance for domestic operation. The amount of chlorine applied shall be sufficient to provide a dosage of 50 parts per million or more. The chlorine solution shall remain in the system for a period of at least 8 hours, during which time every valve in the system shall remain opened and closed several times to assure contact with every surface of the system. After completion of sterilization procedures, the system shall be flushed using chlorinated water from a domestic water source having a chlorine residual of at least 1 part per million. The contractor shall obtain all bacteriological clearances as required by the Florida Department of Environmental Protection. After bacteriological clearances, the pressure in the main shall not drop below 20 P.S.I. Clearance report to be submitted to the Engineer. The contractor should be aware that there is a timing maximum related to bacteriological clearance of the main, completion of as-built drawings and Engineer / C.G.C.S. completion of Certificate of Completion. In any project where the bacteriological clearances are areater than 30 days old at the time of submittal of Certificate of Completion

to F.D.E.P., the contractor may be required to pull more samples and obtain more bacteriological clearances. Prior to introducing the chlorine solution, the lines shall be thoroughly flushed with clean water utilizing full pipe diameter flushing for pipe up to and including 8" diameter. Contractor shall be responsible for dechlorination of the disinfectant water prior to any discharge to any ditch or surface waters.

19. BACTERIOLOGICAL SAMPLING. Contractor shall assure the project construction is completely finished prior to any bacteriological sampling and testing.

## **GENERAL NOTES**

1. AS-BUILT DRAWINGS AND ASSOCIATED COSTS. All cost records pertaining to the cost of water, reclaim and sewer facilities donated to the utility shall be provided to the Utility by applicant. Prior to acceptance of any extension to the Utility's system that is completed by a licensed underground utility contractor, the Utility will require that the applicant's contractor provide the Utility, to retain for its permanent records, all field as-built data. During the daily progress of the work, the contractor's job superintendent shall record on his field set of drawings all work installed. All manholes, gravity sewers, force mains, laterals, valves, fittings, fire hydrants, etc. shall be located in two directions. One location shall be referenced perpendicular to the right-of-way lines and or property lines (preferably both) or existing permanent utility structures are acceptable (i.e. manholes, catch basins, fire hydrants, head/end walls, etc.). No power/utility poles may be used for reference. Elevations of manhole inverts and center of cover shall be shown to the nearest hundredth of a foot. Size, type, class and slope of sewer main shall be shown (i.e. 8" PVC, SDR-35). The top elevation of each manhole may be determined by measuring from a surveyed pipe invert to the final adjusted manhole top. Size, type and class of water mains, valves, fittings, fire hydrants, etc. shall be shown (i.e., 8" D.I.P., 6" gate valve). All locations where the top of the water main is less than 36" deep or more than 50" deep shall be noted on the as-builts. Water as-builts, sewer as-builts and reclaim water as-builts shall be on separate sheets. <u>ASBUILTS SHALL BE IN NAD 1983 FL EAST-FOOT-STATE PLANE COORDINATES AND REFERENCE THE BM USED FOR THE PROJECT.</u>

Each page of the as-built drawings shall bear the name, date and original signature of the general contractor responsible for the Work and the name, date, original signature and seal of the registered land surveyor or registered professional engineer who provided the horizontal and vertical dimensions and elevations on the as-built drawing. The signatures shall certify that the as-built drawings do, in fact, reflect the true as-built conditions as located under the direct supervision of the registered surveyor and/or professional engineer. The as-builts shall be at the contractor's expense. A copy of the AutoCAD® <u>ASBUILT DATA SHALL BE FURNISHED</u> <u>ON COMPACT DISK (CD) PLUS (2) SIGNED FULL SIZE PRINTED SET PLUS (1) MYLAR SET by either the design engineer or the applicant's contractor.</u>

2. CONSTRUCTION WARRANTY AND WARRANTY SECURITY PERIOD. Developer shall warranty Utility against defects in material and workmanship for the portion of the onsite system to be owned by the Utility. Developer shall secure from its Contractor a written and fully assignable warranty that the system installed will be and remain free from all defects, latent or otherwise with respect to workmanship. materials, installation, and accuracy of his as-built drawings in accordance with the Utility approved plans and specifications for a period of two years from the date of the system acceptance by the Utility and immediately assign the same and the right to enforce the same to Utility on or before the date of the Utility's acceptance of the system for ownership and maintenance.

3. CLEAN-UP. All surplus materials of construction shall be removed from the site and disposed of by the Contractor as part of his contract with the owner.

4. RESTORATION. New Sanitary Sewer and Water Main Construction in earthen areas shall be seeded and mulched in accordance with Section 570 of Standard Specifications of the Florida Dept. of Transportation (latest edition). In locations where existing grassed (sodded) areas are disturbed, sod shall be replaced to preconstruction condition and to limits of construction or where directed by the engineer.

5. PERMITS. The Contractor shall be responsible for obtaining all permits required for performing work under this contract, except that the F.D.E.P. permits, and wetland permits, if required, will be secured by the owner or developer.

6. PIPE BEDDING. In the event unsuitable or unstable bedding material is encountered at or below the limits of the excavation required for installation, such material shall be removed and replaced with suitable compacted backfill material specified by the design engineer and approved by the C.G.C.S so as to provide a stable trench bedding surface suitable for proper pipe installation.

6-A. Pipe Bedding (Rock Bedding Material) Rock material used for pipe bedding shall be #57 stone or crushed concrete (crush-crete) in a #57 size. Rock bedding material shall be completely wrapped in a heavy filter fabric material, overlapped a minimum of one foot, rock bedding shall be installed to the correct grade and compacted to a density which will prevent any settlement, either by mechanical tamping equipment or by compressing the rock using the bottom of the backhoe bucket. The compaction shall be approved by C.G.C.S. inspector. The contractor shall be required to have submittal approved by design engineer and C.G.C.S. prior to use of such rock bedding material.

7. DEWATERING. The contractor shall at all time during construction provide ample means and equipment with which to promptly remove and dispose of all water entering the trench and structure excavations and shall keep said excavations acceptably dry until the piping and / or structures to be built therein are completed. All water pumped or drained from the work area shall be disposed of in a manner as to not damage sewer, water, electrical or any other piping, structures or property. No pipe shall be laid in water and no water shall be allowed to rise above the bottom of any pipe while it is being jointed, except as may be approved in writing by the C.G.C.S.

8. HYDROSTATIC TESTING. After all pressure pipes (water mains, services, and force mains) are laid, the joints completed, and the trench backfilled, the newly laid pipe and appurtenances shall be subjected to a hydrostatic test of 150 P.S.I. for a period of at least two hours. The engineer and the C.G.C.S. Public Works must be notified 48 hours before a test is to be performed. Test shall be as set forth in AWWA standard C600. Any leaks detected shall be corrected and the section of pipeline retested. The two hour test period shall begin when all joints have been determined to be water tight. Leakage shall be limited to that allowance set forth in Section 4 of AWWA Standard C600-87. Hydrostatic and leakage test and blow-down (zeroing of gage) must occur before sampling for bacteriological test. The maximum allowable pressure loss is 5 P.S.I. regardless of the length of pipe.

9. REPORTS. Reports of hydrostatic and leakage tests and sterilization of the newly completed systems shall be submitted to the C.G.C.S. prior to requesting acceptance of the system.

10. DENSITY TESTING. In-place density tests are required at intervals not to exceed 150' along pipelines for every other lift. A minimum of one test between manholes is required for every other lift regardless of the distance between sanitary sewer manholes.

11. CONCRETE. All Portland Cement concrete shall be of Type II Portland Cement, 2,500 P.S.I. minimum, ready mixed. All concrete shall be placed before the initial set has taken place. Stale or retempered concrete shall not be used.

12. GATE VALVES AND BOXES. Gate valves shall have a 2" operating nut and open left. Gate valves shall have joints suitable for the type main on which installed. Valves 2" and 3" shall be iron body, bronze fitted. Valves 4" and larger shall be iron body, bronze fitted with resilient seat. The word "WATER" on water boxes and "SEWER" on force main boxes shall be cast in the covers.

13. SEPARATION OF WATER AND SEWER MAINS. Horizontal and vertical separation between potable water system mains and or appurtenances and sanitary or storm sewers, wastewater or storm water force mains, and reclaimed water mains shall be in accordance with Rule 62–555.314 FAC.

(a) New or relocated, underground water mains shall be laid to provide a horizontal distance of at least three feet between the outside of the water main and the outside of any existing or proposed storm sewer, storm water force main, reclaimed water main

regulated under Part III of Chapter 62-610, F.A.C, or proposed vacuum-type sanitary sewer. (b) New or relocated, underground water mains shall be laid to provide a horizontal distance of at least six feet, and preferably ten 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 the water main is laid at least six inches above the top of the sewer.

(c) New or relocated, 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 inches, and preferably 12 inches, above or at least 12 inches below the outside of the other pipeline. However, it is preferable to lay the water main above the other pipeline.

(d) New or relocated, underground water mains crossing any existing or proposed pressure-type sanitary sewer, wastewater or storm water force main, or pipeline conveying reclaimed water shall be laid so the outside of the water main is at least 12 inches above or below the outside of the other pipeline. However, it is preferable to lay the water main above the other pipeline.

(e) At the utility crossings described in paragraphs (c) and (d) above, one full length of water main pipe shall be centered above or below the other pipeline so the water 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, storm water force mains, or pipelines conveying reclaimed water regulated under Part III of Chapter 62-610, F.A.C., and at least six 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.

14. NEW CONNECTION TO EXISTING MAIN. New connection to existing main in service shall be accomplished by the "wet tap" method utilizing full circle stainless steel tapping sleeve and mechanical joint tapping valve. Tapping sleeve shall be rated at 200 P.S.I., non-shock working pressure conforming to AWWA Standard C110, latest revision. Stainless steel tapping sleeves shall be from those listed in C.G.C.S. approved material manual. Tapping valve shall be mechanical joint one end and standard flanged joint on other end. Valve shall conform to Section 12, of these specifications.

15. JOBSITE SAFETY. While on the job site, the contractor shall at all times observe all Federal, State and local safety rules, regulations and laws. This includes, but not limited to, confined spaces and excavation protection systems as per O.S.H.A. standards.

GENERAL NOTES	
<ol> <li>CLOSE OUT / COMPLETION. Minimum items required for Close Out / Completion for submittal to the City of Green Cove Springs will include:         <ul> <li>(a.) Construction Warranty from Developer in the form of a Bond, Letter of Credit or Cashier's Check for a two-year period.</li> <li>(b.) Warranty Certificate for a two-year warranty from the contractor to the Developer and assignment of same to the City of Green Cove Springs (C.G.C.S.).</li> <li>(c.) Developer's Affidavit certifying there is no outstanding debt against utility assets to be deeded to C.G.C.S.</li> <li>(d.) Value of Acceptance Report showing value of assets to be deeded to the C.G.C.S.</li> <li>(e.) Bill of Sale to C.G.C.S.</li> <li>(f.) Bacteriological Test(s)</li> <li>(g.) Pressure Test(s)</li> <li>(h.) Television Reports and Tapes</li> <li>(i.) Density Reports</li> <li>(j.) PROPER Final As-Built Drawings and disks</li> </ul> </li> </ol>	REVISION DESCRIPTION
17. C.G.C.S. Shop Drawing and Submittal Process. A signed acknowledgment by the Contractor and the Material Supplier, on the "Shop Drawings and C.G.C.S.'s Approved Materials List Form", that all materials will be in accordance with C.G.S.S.'s Specifications, C.G.C.S.'s Details and C.G.C.S.'s Approved Materials Manual, is the only submittal C.G.C.S. will require for each item of materials with the following exception: any alternate materials requested by the Engineer; any materials not listed in the C.G.C.S. Materials Manual; and materials associated with pumping stations and plant installations. Those exceptions shall have an individual shop drawing submitted for C.G.C.S.'s review and approval prior to any installation of said materials.	AL UPDATE This term has been digital
This is C.G.C.S.'s procedure and it does not preclude the design engineer from requiring additional submittals and shop drawings as he deems necessary for the project.	GENER
18. PUMP STATIONS (TEMPORARY OR PERMANENT). All pump stations shall be constructed in accordance with C.G.C.S. standards, rules and regulations and be approved by C.G.C.S. All work and materials shall meet the requirements of C.G.C.S. Standard Pump Station Details and Specifications or the plans, details and specifications for that specific pump station. A driveway shall be provided from the street (roadway) to within 2 feet of the pump station wetwell, minimum 10 feet wide x 5 inches thick 3,000 P.S.I. concrete. Submersible pump stations shall be fenced completely about the perimeter of the pump station site (location of the pump station station site as noted on the plans), including gates and all other items required to make a completely fenced installation. The entire pump station site within the fenced area shall be covered with $\#57$ stone, 6 inch thick minimum, placed over 8 mil visqueen.	1 FEB. 2016 SS NO DATE BY
19. Information shown on the Drawings as to the location of existing utilities has been prepared from the most reliable data available to the Engineer. The Contractor shall be responsible for requesting underground utility locates and shall assist the utility companies, by every means possible to determine said locations and the locations of recent additions to the systems not shown. Extreme caution shall be exercised to eliminate any possibility of any damage to utilities resulting from Contractor's activities. The locations of all overhead utilities shall also be verified by the Contractor. The Engineer shall be notified of any conflict that may occur. The Contractor shall be responsible for determining which poles will need shoring during excavation and shall provide such shoring and support as required.	ESG RWN HKD PRV ATE
20. C.G.C.S. details and specifications (latest available copy) shall be included in all plans submitted for work within the C.G.C.S. utility system. No person shall modify, change, omit, replace any portion of those details and specifications without the express written consent of C.G.C.S In any instance where the design engineer has included his written specifications or details in the plans then the more stringent of the two shall govern.	
21. All materials to be used for any project within C.G.C.S.'s utility system shall conform to those materials listed in the C.G.C.S. approved material manual in effect at the time final plans for that project are approved by C.G.C.S.	5
<ul> <li>22. Under no circumstance shall any trees be planted within a C.G.C.S. utility easement without; <ul> <li>a.) C.G.C.S. approving landscape and irrigation plans.</li> <li>b.) C.G.C.S. being notified prior to the planting of trees and giving approval.</li> <li>c.) C.G.C.S. inspecting the installation of root barrier material (required at all trees which are closer than 10' to any C.G.C.S. utility line) as shown in C.G.C.S. approved material manual and C.G.C.S. roadway cross section details, whether or not shown on the plans.</li> </ul> </li> <li>23. At all Jack &amp; Bore locations a C.G.C.S. inspector shall inspect the casing spacers to verify</li> </ul>	EWER SYSTEN CATIONS
they are the correct size and have been installed correctly on the pipe prior to the pipe being installed into the pipe casing. The pipe casing shall be clean and free of all dirt, and shall be cleaned with a Vac—Con if necessary. A C.G.C.S. inspector shall be present at all time during this work.	AND SI SPECIFIC
<ul> <li>FINAL INSPECTION, THE CONTRACTOR shall PROVIDE THE FOLLOWING:</li> <li>The reserve test and bacteriological clearance analysis report.</li> <li>The engineer of record certification to D.E.P. This can be done with completed as-builts.</li> <li>Completed as-builts showing at least the following: <ul> <li>a. Location of valves, mains, services, manholes and locate wire boxes.</li> <li>b. Elevation of sewer lines in the manhole, and stub-outs.</li> </ul> </li> <li>All services and valves to be plainly marked with a treated fence post, and electronic locate marker when needed.</li> <li>PRIOR TO FINAL ACCEPTANCE FOR OWNERSHIP, THE FOLLOWING MUST BE COMPLETED: <ul> <li>All manhole rings and covers have to be adjusted to finish grade.</li> </ul> </li> <li>PRIOR TO FINAL ACCEPTANCE FOR OWNERSHIP, THE FOLLOWING MUST BE COMPLETED: <ul> <li>All manhole rings and covers have to be adjusted to finish grade.</li> <li>All manhole rings and covers have to be adjusted to finish grade.</li> </ul> </li> </ul>	PROJECT: STANDARD WATER TECHNICAL
<ul> <li>4. All valves, locate wire boxes, sewer, water and reclaimed services shall be scribed in curb and painted the correct color.</li> <li>5. As-builts, must be accepted and approved by the City of Green Cove Springs Public Works.</li> <li>PRIOR TO FINAL ACCEPTANCE FOR OWNERSHIP, THE FOLLOWING MUST BE COMPLETED: <ol> <li>A preliminary inspection must be coordinated by the underground utility contractor and held a minimum of fifteen (15) working days prior to the final inspection/start-up. The preliminary inspection will compare the approved design drawings to the actual site installation, noting any deficiencies.</li> </ol> </li> <li>The following must be represented at the preliminary and final inspection:</li> </ul>	RINGS T DA 32043
<ul> <li>a.) The C.G.C.S.'s inspection and distribution and collection departments</li> <li>b.) The project's developer and/or general contractor</li> <li>c.) The underground utility contractor</li> <li>d.) All subcontractors associated with the lift station (electrical, pump manufacturer, control panel manufacturer, etc.)</li> </ul>	CITY OF GREEN COVE SPI 321 WALNUT STREET GREEN COVE SPRINGS, FLORI
	SOM BR
	ACAD FILE NAME SPECIF_D.DWG SHEET NO.

1 of 1





504.53', W 568.04'14' W (NOT TO SCALE)

GRAPHIC SCALE: 1"

ARC OF ARC OF DISTA DISTA TES 47 FEET TO 1902 OF S 01 SE 271.72 E POINT VCE AT SOUTH 6 SOUTH 6 SOUTH 6 NTINUE DEGREE DEGREE

1983 EAST

COUNTY PO















![](_page_8_Figure_1.jpeg)

![](_page_9_Figure_0.jpeg)

This item has been digitally signed and sealed by ALEX R. ACREE. P.E. on the date adjacent to the t if this document are not considered signed and sealed and the signature must be verified on any electronic cor-

![](_page_10_Figure_0.jpeg)

![](_page_11_Figure_0.jpeg)

![](_page_11_Figure_1.jpeg)

STRUCTURE	TYPE	RIM	INV IN	INV OUT
LS-1	Wet Well	18.77	10.58 (SW)	
S1	San Concrete Manhole (With Cone)	21.11		14.65 (NE)
S2	San Concrete Manhole (With Cone)	20.55	14.35 (SW)	14.25 (SE)
S3	San Concrete Manhole (With Cone)	20.74		14.90 (N)
S4	San Concrete Manhole (With Cone)	21.65	13.17 (NW) 14.08 (S)	13.07 (NE)
S5	San Concrete Manhole (With Cone)	20.83		15.30 (E)
S6	San Concrete Manhole (With Cone)	20.17	15.03 (W)	14.93 (NW)
S7	San Concrete Manhole (With Cone)	21.30		14.35 (E)
S8	San Concrete Manhole (With Cone)	20.42	13.99 (W)	13.89 (NE)
S9	San Concrete Manhole (With Cone)	19.97	13.27 (SW) 14.13 (SE)	13.17 (NW)
S10	San Concrete Manhole (With Cone)	18.07	11.60 (SE)	11.50 (NW)
<b>S</b> 11	San Concrete Manhole (With Cone)	18 27	12.55 (SW)	10.64 (NF)

PIPE TABLE						
PIPE	SIZE	MATERIAL	LENGTH	SLOPE		
SP1	8"	PVC SDR26	76'	0.40%		
SP2	8"	PVC SDR26	270'	0.40%		
SP3	8"	PVC SDR26	205'	0.40%		
SP4	8"	PVC SDR26	130'	0.40%		
SP5	8"	PVC SDR26	68'	0.40%		
SP6	8"	PVC SDR26	201'	0.40%		
SP7	8"	PVC SDR26	90'	0.40%		
SP8	8"	PVC SDR26	156'	0.40%		
SP9	8"	PVC SDR26	392'	0.40%		
SP10	8"	PVC SDR26	191'	0.40%		
SP11	8"	PVC SDR26	16'	0.40%		

![](_page_12_Figure_4.jpeg)

![](_page_13_Figure_0.jpeg)

![](_page_14_Figure_0.jpeg)

![](_page_15_Figure_0.jpeg)

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οπΕΕ	CONSTRUCTION DETAILS		DSGN BY:	DTS		REVISIONS	
. 110			DWG BY:	STO	NO.	DESCRIPTION	
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) F	I FREDERVE AL UNEEN COVE DENINUS		CHK BY:		-		
1 <u>6</u> 2:		P.O. BOX 3126, 7 WALDO STREET		ARA			
<b>7</b> 5	CITY OF GREEN COVE SPRINGS	ST. AUGUSTINE, FL 32084	DATE:				
	DREDAREN EOR	DHONF: 904 826 1334 • FAX: 904 826 4547		03-12-25			REGISTERED ENGINEER
			JOB No.:				ALEX R. ACREE. P.E.
	PC ACQUISITION LLC	INFO@MDGINC.COM		22034			CA#26535 FL.#73155

![](_page_19_Figure_0.jpeg)

CONTRUCTION DETAILS     Matthews       RESERVE AT GREEN COVE SIRVING     Matthews       In on investigation measures     Matthews	PRINCIPLE POST POSITIONS PRINCIPLE POST POSITION COUNTER 20° TOWARD FLOW FILTER FABRIC					
CONSTRUCTION DETAILS     Matthews     Matthews       PRESERVE AT GREEN OF SPRINGS     PRESERVE AT GREEN OF SPRINGS     PRESERVE AT GREEN OF SPRINGS       IT NO IS GREEN OF SPRINGS     PRESERVE AT GREEN OF SPRINGS     PRESERVE AT GREEN OF SPRINGS       IT NO IS GREEN OF SPRINGS     PRESERVE AT GREEN OF SPRINGS     PRESERVE AT GREEN OF SPRINGS       IT NO IS GREEN OF SPRINGS     PRESERVE AT GREEN OF SPRINGS     PRESERVE AT GREEN OF SPRINGS	SILT FLOW "X 2" POST	REVISIONS	E DESCRIPTION	2-25 REVISED PER CITY COMMENTS		
CONSTRUCTION DETAILS     Matheways       CONSTRUCTION DETAILS     Matheways       TORSERVE AT GREEN COVE SPIRINGS     P.B.6.3136, P.M.ED STREAT       TORSERVE AT GREEN COVE SPIRINGS     P.B.6.3136, P.M.ED STREAT       TORSERVE AT GREEN COVE SPIRINGS     P.B.6.3136, P.M.ED STREAT		DSGN BY: DTS	DWGBY: DTS NO. DAT	CHK BY: ARA 1 04-02	DATE: 03-12-25	
CONSTRUCTION DETAILS CONSTRUCTION DETAILS CITY OF GREEN COVE SPRINGS CITY OF GREEN COVE SPRINGS CITY OF GREEN COVE SPRINGS				P.O. BOX 3126. 7 WALDO STREET	ST. AUGUSTINE, FL 32084	PHONE: 904.826.1334 • FAX: 904.826.4547 INFO@MDGINC.COM
		CONSTRUCTION DETAILS		PRESERVE AT GREEN COVE SPRINGS	CITY OF GREEN COVE SPRINGS	

![](_page_20_Figure_0.jpeg)

![](_page_20_Figure_1.jpeg)

![](_page_21_Figure_0.jpeg)

![](_page_21_Figure_5.jpeg)

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![](_page_23_Figure_2.jpeg)

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1 OF 1

This solven agritally signed and seared by ALEA K. AVATE, F.E. In this vare avour are not considered signed and sealed and the signature must be verified on any elec

 OWNER'S REQUIREMENTS	
SITE DESCRIPTION	GENERAL
PROJECT NAME LOCATION: LATITUDE: LONGITUDE:	THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SHOWN ON THI AND TURBIDITY CONTROL PLAN. IN ADDITION THE CONTRACTOR SHALL UN ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICAB CONDITIONS AND STATE WATER QUALITY STANDARDS. DEPENDING ON TH OF MATERIALS AND METHODS OF CONSTRUCTION THE CONTRACTOR MAY REQUIRED TO ADD FLOCCULENTS TO THE RETENTION SYSTEM PRIOR TO F THE SYSTEM INTO OPERATION.
OWNER NAME AND ADDRESS:	SEQUENCE OF MAJOR ACTIVITIES:
DESCRIPTION:	THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:
SOIL DISTURBING ACTIVITIES WILL INCLUDE: RUNOFF CURVE NUMBERS: 1. PRE-CONSTRUCTION = 2. DURING CONSTRUCTION = 3. POST-CONSTRUCTION = EXISTING SOILS TYPE: ESTIMATED SHWLS: SITE MAPS: * SEE ATTACHED GRADING PLAN FOR PRE & POST DEVELOPMENT GRADES,	1. INSTALL STABILIZED       9. INSTALL STORM SEWE         CONSTRUCTION ENTRANCE       AND IRRIGATION.         2. INSTALL SILT FENCES AND SYNTHETIC       INSTALL PERMANENT         3. CLEAR AND GRUB FOR DIVERSION       INSTALL PERMANENT         3. CLEAR AND GRUB FOR DIVERSION       SEEDING/SOD AND PL/         SWALES/DIKES AND SEDIMENT       11. REMOVE ACCUMULAT         BASIN       SEDIMENT FROM BASIN         4. CONSTRUCT SEDIMENTATION       12. WHEN ALL CONSTRUCT         5. CONTINUE CLEARING AND       SITE IS STABILIZED, RE         GRUBBING       TEMPORARY DIVERSION         6. STOCK PILE TOP SOIL IF REQUIRED       SWALES/DIKES AND RE         7. PERFORM PRELIMINARY GRADING       AS REQUIRED         8. STABILIZE DENUDED AREAS AND       STOCKPILES AS SOON AS         PRACTICABLE       FRACTICABLE
AREAS OF SOILS, DISTURBANCE, LOCATION OF SURFACE WATERS, WETLANDS, PROTECTED AREAS, MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS AND STORM WATER DISCHARGE POINTS.	TIMING OF CONTROLS/MEASURES
* SEE ATTACHED EROSION & TURBIDITY CONTROL PLAN FOR LOCATION OF TEMPORARY STABILIZATION PRACTICES, AND TURBIDITY BARRIERS * SEE GENERAL NOTES FOR REQUIREMENTS FOR TEMPORARY AND PERMANENT STABILIZATION. SITE AREA: 1. TOTAL AREA OF SITE = ACRES 2. TOTAL AREA OF SITE = ACRES NAME OF RECEIVING WATERS: OUTFALL 1: DRAINAGE AREA: LATITUDE: LONGITUDE: OUTFALL 2: DRAINAGE AREA: LATITUDE: LONGITUDE: LONGITUDE:	AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENC AND HAY BALES, STABILIZED CONSTRUCTION ENTRANCE AND SEDIMEN BASIN WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF AN OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED PERMANENTLY IN ACCORDANCE WITH THE PLANS. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TR/ AND THE EARTH DIKE/SWALES WILL BE REGRADED/REMOVED AND STAF IN ACCORDANCE WITH THE EROSION & TURBIDITY CONTROL PLAN.
CONTROLS	TURBIDITY CONTROLS AS SHOWN ON THE EROSION AND TURBIDITY CO PLAN. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO ENSURE THE
THIS PLAN UTILIZES BEST MANAGEMENT PRACTICES TO CONTROL EROSION AND TURBIDITY CAUSED BY STORM WATER RUN OFF. AN EROSION AND TURBIDITY PLAN HAS BEEN PREPARED TO INSTRUCT THE CONTRACTOR ON PLACEMENT OF THESE CONTROLS. IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL AND MAINTAIN THE CONTROLS PER PLAN AS WELL AS ENSURING THE PLAN IS PROVIDING THE PROPER PROTECTION AS REQUIRED BY FEDERAL, STATE AND LOCAL LAWS. REFER TO "CONTRACTORS RESPONSIBILITY" FOR A DESCRIPTION OF THE CONTROLS THAT MAY BE IMPLEMENTED. STORM WATER MANAGEMENT 	<ul> <li>TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT THE CONTRACTOR WILL ADJUST THE EROSION AND TURBIDITY CONTROL ON THE EROSION AND TURBIDITY CONTROL PLAN AND ADD ADDITIONAL MEASURES, AS REQUIRED, TO ENSURE THE SITE MEETS ALL FEDERAL, SINCAL EROSION AND TURBIDITY CONTROL REQUIREMENTS. THE FOLLO MANAGEMENT PRACTICES WILL BE IMPLEMENTED BY THE CONTRACTO REQUIRED BY THE EROSION AND TURBIDITY CONTROL PLAN AND AS RETO MEET THE EROSION AND TURBIDITY REQUIREMENTS IMPOSED ON T SITE BY THE REGULATORY AGENCIES.</li> <li>EROSION AND SEDIMENT CONTROLS</li> <li>STABILIZATION PRACTICES</li> <li>1. SYNTHETIC BALE BARRIER: SYNTHETIC BALE BARRIERS CAN BE USED DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:</li> <li>A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.</li> <li>B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES.</li> </ul>
BMP'S TO BE IMPLEMENTED BMP: LOCATION AND DESCRIPTION: BMP: LOCATION AND DESCRIPTION: BMP: LOCATION AND DESCRIPTION:	<ul> <li>C. WHERE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS.</li> <li>D. EVERY EFFORT SHOULD BE MADE TO LIMIT THE USE OF SYNTHETIC BARRIERS CONSTRUCTED IN LIVE STREAMS OR IN SWALES WHERE THERE IS THE POSSIBILITY OF A WASHOUT. IF NECESSARY, MEASURI SHALL BE TAKEN TO PROPERLY ANCHOR BALES TO INSURE AGAINST WASHOUT.</li> <li>REFER TO THE DETAILS FOR CONSTRUCTING THE HAY BALE BARRIER. ALSO REFER TO THE DETAILS FOR PROPER LOCATION, MATERIAL AND USAGE.</li> <li>2. FILTER FABRIC BARRIER: FILTER FABRIC BARRIERS CAN BE USED BELO DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE</li> </ul>
CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS	<ul> <li>FOLLOWING LIMITATIONS:</li> <li>A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.</li> <li>B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM</li> <li>CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES</li> </ul>
IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL LAWS RELATED TO STORM WATER MANAGEMENT AND EROSION AND TURBIDITY CONTROLS, THE FOLLOWING PERMITS HAVE BEEN OBTAINED. C.O.E. DREDGE/FILL PERMIT # W.M.D. ENVIRONMENTAL RESOURCE PERMIT #	<ul> <li>CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES.</li> <li>REFER TO THE DETAIL SHEET FOR PROPER CONSTRUCTION OF THE FILTER FABRIC BARRIER.</li> <li>BRUSH BARRIER WITH FILTER FABRIC: BRUSH BARRIER MAY BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WH ENOUGH RESIDUE MATERIAL IS AVAILABLE ON SITE.</li> <li>LEVEL SPREADER: A LEVEL SPREADER MAY BE USED WHERE SEDIMEN FREE STORM RUNOFF IS INTERCEPTED AND DIVERTED AWAY FROM TH GRADED AREAS ONTO UNDISTURBED STABILIZED AREAS. THIS PRACTI APPLIES ONLY IN THOSE SITUATIONS WHERE THE SPREADER CAN BE</li> </ul>
POLLUTION PREVENTION PLAN CERTIFICATION I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR CATHERING THE INFORMATION. THE INFORMATION SUBMITTED IS TO THE	
BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	
SIGNED:	

## STORM WATER POLLUTION PREVENTION PLAN

### CONTRACTOR'S REQUIREMENTS HAZARDOUS PRODUCTS CONSTRUCTED ON UNDISTURBED SOIL AND THE AREA BELOW THE LEVEL THE 3,600 CUBIC FEET OF STORAGE AREA PER ACRE DRAINED DOES NOT THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH LIP IS STABILIZED. THE WATER SHOULD NOT BE ALLOWED TO APPLY TO FLOWS FROM OFFSITE AREAS AND FLOWS FROM ONSITE AREAS RECONCENTRATE AFTER RELEASE. LEVEL SPREADER SHALL BE CONSTRUCTED HAZARDOUS MATERIALS. ONTRACTOR'S HAT ARE FITHER UNDISTURBED OR HAVE UNDERGONE FINAL IN ACCORDANCE TO THE DETAILS. SHOWN ON THE EROSION STABILIZATION WHERE SUCH FLOWS ARE DIVERTED AROUND BOTH THE RESEALABLE. 5. STOCKPILING MATERIAL: NO EXCAVATED MATERIAL SHALL BE TOR SHALL UNDERTAKE DISTURBED AREA AND THE SEDIMENT BASIN. ANY TEMPORARY SEDIMENT STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF VITH APPLICABLE PERMIT BASINS CONSTRUCTED MUST BE BACKFILLED AND COMPACTED IN THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORM WATER ENDING ON THE NATURE ACCORDANCE WITH THE SPECIFICATIONS FOR STRUCTURAL FILL. ALL CONTAIN IMPORTANT PRODUCT INFORMATION. TRACTOR MAY BE COLLECTION FACILITY. SEDIMENT COLLECTED IN PERMANENT OR TEMPORARY SEDIMENT TRAPS EM PRIOR TO PLACING MUST BE REMOVED UPON FINAL STABILIZATION. * IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL 6. EXPOSED AREA LIMITATION: THE SURFACE AREA OF OPEN, RAW ERODIBLE AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR FOLLOWED. EXCAVATION AND FILLING OPERATIONS SHALL NOT EXCEED 10 ACRES. THIS REQUIREMENT MAY BE WAIVED FOR LARGE PROJECTS WITH AN OTHER CONTROLS PRODUCT SPECIFIC PRACTICES EROSION CONTROL PLAN WHICH DEMONSTRATES THAT OPENING OF ADDITIONAL AREAS WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT PETROLEUM PRODUCTS OF SEDIMENTS. WASTE DISPOSAL ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE STORM SEWER, 7. INLET PROTECTION: INLETS AND CATCH BASINS WHICH DISCHARGE RIGATION. DIRECTLY OFF-SITE SHALL BE PROTECTED FROM SEDIMENT-LADEN STORM WASTE MATERIALS ETE GRADING AND RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS PERMANENT ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE THAT MAY CONTRIBUTE SEDIMENT TO THE INLET. USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S G/SOD AND PLANTING COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE RECOMMENDATIONS. /E ACCUMULATED 8. TEMPORARY SEEDING: AREAS OPENED BY CONSTRUCTION OPERATIONS DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT NT FROM BASINS FERTILIZERS AND THAT ARE NOT ANTICIPATED TO BE RE-EXCAVATED OR DRESSED AND REGULATIONS. THE DUMPSTER WILL BE EMPTIED AS NEEDED AND THE ALL CONSTRUCTION RECEIVE FINAL GRASSING TREATMENT WITHIN 30 DAYS SHALL BE SEEDED TRASH WILL BE HAULED TO A STATE APPROVED LANDFILL. ALL Y IS COMPLETE AND THE WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT STABILIZED, REMOVE ANY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WILL NOT PROCEDURE FOR WASTE DISPOSAL, NOTICES STATING THESE BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. RARY DIVERSION PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE LATER COMPETE WITH THE PERMANENT GRASSING. STORAGE WILL BE IN A COVERED AREA. THE CONTENTS OF ANY S/DIKES AND RESEED/SOD CONSTRUCTION SUPERINTENDENT. THE INDIVIDUAL WHO MANAGES 9. TEMPORARY SEEDING AND MULCHING: SLOPES STEEPER THAN 6:1 THAT JIRED THE DAY-TO-DAY SITE OPERATIONS WILL BE RESPONSIBLE FOR SEALABLE PLASTIC BIN TO AVOID SPILLS. FALL WITHIN THE CATEGORY ESTABLISHED IN PARAGRAPH 8 ABOVE SEEING THAT THESE PROCEDURES ARE FOLLOWED. PAINTS SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY 2 INCHES LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDED AREA ADEQUATE TO PREVENT MOVEMENT OF SEED AND MULCH. HAZARDOUS WASTE 10. TEMPORARY GRASSING: THE SEEDED OR SEEDED AND MULCHED AREA(S) ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE SHALL BE ROLLED AND WATERED OR HYDRO MULCHED OR OTHER MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE CONCRETE TRUCKS SUITABLE METHODS IF REQUIRED TO ASSURE OPTIMUM GROWING MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER. PRACTICES AND THE SITE SUPERINTENDENT. THE INDIVIDUAL WHO TEMPORARY GRASSING SHALL BE THE SAME MIX & AMOUNT REQUIRED MANAGES DAY-TO-DAY SITE OPERATIONS WILL BE RESPONSIBLE FOR THE SILT FENCES PROVIDED. NO OFFSITE DISCHARGE WILL BE PERMITTED. FOR PERMANENT GRASSING IN THE CONTRACT SPECIFICATIONS. SEEING THAT THESE PRACTICES ARE FOLLOWED. AND SEDIMENT GRADING OF ANY 11. TEMPORARY REGRASSING : IF, AFTER 14 DAYS FROM SEEDING, THE SPILL CONTROL PRACTICES SANITARY WASTE ES SHALL BE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 75 SITE WHERE IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PERCENT GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE RMANENTLY ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED ANENTLY IN AN FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND VEGETATIVE COVER. AND DEPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL ACCORDANCE CLEANUP: REGULATIONS FOR SANITARY SEWER OR SEPTIC SYSTEMS. 12. MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND THE CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE SEDIMENT TRAPS OFFSITE VEHICLE TRACKING MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO OVED AND STABILIZED FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED. A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP ROL PLAN. REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT SUPPLIES. 13. PERMANENT EROSION CONTROL: THE EROSION CONTROL FACILITIES OF TO THE SITE ENTRANCE WILL BE SWEPT DAILY TO REMOVE ANY EXCESS THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE MUD, DIRT OR ROCK TRACKED FROM THE SITE, DUMP TRUCKS HAULING OFFSITE FACILITIES. MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPAULIN INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, THE EROSION AND 14. PERMANENT SEEDING: ALL AREAS WHICH HAVE BEEN DISTURBED BY GLOVES, GOGGLES, LIQUID ABSORBENT (i.e. KITTY LITTER OR EQUAL), TURBIDITY CONTROL CONSTRUCTION WILL, AS A MINIMUM, BE SEEDED. THE SEEDING MIX MUST SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY O ENSURE THESE PROVIDE BOTH LONG-TERM VEGETATION AND RAPID GROWTH SEASONAL INVENTORY FOR POLLUTION PREVENTION PLAN D FUNCTIONING PROPERLY FOR THIS PURPOSE. VEGETATION. SLOPES STEEPER THAN 4:1 SHALL BE SEEDED AND MULCHED NG THE PROJECT SITE. OR SODDED. BIDITY CONTROLS SHOWN ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY. THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE ADD ADDITIONAL CONTROL 15. TEMPORARY FLOATING TURBIDITY BARRIER: FLOATING TURBIDITY BARRIER MAY PRESENT ONSITE DURING CONSTRUCTION THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL ALL FEDERAL, STATE AND BE USED IN ALL PERMANENT BODIES OF WATER REGARDLESS OF WATER DEPTH. WFAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM NTS. THE FOLLOWING BEST FILTER CURTAIN SHALL REACH THE BOTTOM UP TO DEPTHS OF 10 FEET Wood Concrete Fertilizers E CONTRACTOR AS CONTACT WITH A HAZARDOUS SUBSTANCE. Asphalt Petroleum Based Products Masonry Blocks LAN AND AS REQUIRED 🗌 Tar SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE Cleaning Solvents Roofing Materials MPOSED ON THE PROJECT Detergents Detergents Paints Metal Studs SIZE OF THE SPILL. STRUCTURAL PRACTICES 1. TEMPORARY DIVERSION DIKE: TEMPORARY DIVERSION DIKES MAY BE USED TO DIVERT RUNOFF THROUGH A SEDIMENT-TRAPPING FACILITY. AND IT SHALL BE CONSTRUCTED IN ACCORDANCE TO WITH THE DETAILS. CAUSED IT. AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED. 2. TEMPORARY SEDIMENT TRAP: A SEDIMENT TRAP SHALL BE INSTALLED IN THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE AN DRAINAGE WAY AT A STORM DRAIN INLET OR AT OTHER POINTS OF CAN BE USED BELOW DISCHARGE FROM A DISTURBED AREA. SPILL PREVENTION ON WITH THE HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL WHO THE FOLLOWING SEDIMENT TRAPS MAY BE CONSTRUCTED EITHER WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDEPENDENTLY OR IN CONJUNCTION WITH A TEMPORARY DIVERSION MATERIAL MANAGEMENT PRACTICES 33 PERCENT DIKE: THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL MUM OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL A. BLOCK & GRAVEL SEDIMENT FILTER - THIS PROTECTION IS 2 ACRES. BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IF APPLICABLE WHERE HEAVY FLOWS AND/OR WHERE AN OVERFLOW OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF. N 3 MONTHS. APPLICABLE, IN THE OFFICE TRAILER ONSITE. CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND OF SYNTHETIC BALE THE STRUCTURE. REFER TO THE DETAIL SHEET FOR CONSTRUCTION OF A GOOD HOUSEKEEPING ALES WHERE CURB INLET SEDIMENT FILTER, AND FOR CONSTRUCTION OF A SARY, MEASURES THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED DROP INLET SEDIMENT FILTER. SURE ONSITE DURING THE CONSTRUCTION PROJECT. AREAS, REFER TO THE DETAILS FOR CONSTRUCTION OF CURB INLET & DROP B. GRAVEL SEDIMENT TRAP - THIS PROTECTION IS APPLICABLE WHERE BALE BARRIER. AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO HEAVY CONCENTRATED FLOWS ARE EXPECTED. BUT NOT WHERE ON, MATERIAL DO THE JOB. PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES & UNPROTECTED ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY SEDIMENT TRAP. N BE USED BELOW MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ON WITH THE ROOF OR OTHER ENCLOSURE. MAINTENANCE/INSPECTION PROCEDURES C. DROP INLET SEDIMENT TRAP - THIS PROTECTION IS APPLICABLE WHERE 33 PERCENT THE INLET DRAINS A RELATIVELY FLAT AREA (S < 5%) AND WHERE PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE MUM SHEET OR OVERLAND FLOWS (Q < 0.5 CFS) ARE TYPICAL. THIS METHOD ORIGINAL MANUFACTURER'S LABEL. 2 ACRES. SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS SUCH AS IN STREET OR HIGHWAY MEDIANS. REFER TO THE DETAILS FOR TION USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS. SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS CONSTRUCTION OF HAY BALE & FABRIC SEDIMENT FILTER. RECOMMENDED BY THE MANUFACTURER. 3. OUTLET PROTECTION: APPLICABLE TO THE OUTLETS OF ALL PIPES AND R MAY BE USED WITHOUT WRITTEN PERMISSION FROM THE ENGINEER. PAVED CHANNEL SECTIONS WHERE THE FLOW COULD CAUSE EROSION * WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE EROSION WHERE & SEDIMENT PROBLEM TO THE RECEIVING WATER BODY. SILT FENCES & DISPOSING OF THE CONTAINER. HAY BALES ARE TO BE INSTALLED IMMEDIATELY DOWNSTREAM OF THE HERE SEDIMENT-DISCHARGING STRUCTURE AS SHOWN ON THE OUTLET PROTECTION DETAIL. MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL FOLLOWING ANY STORM EVENT OF 0.50 INCHES OR GREATER. WILL BE FOLLOWED. AWAY FROM THE 4. SEDIMENT BASIN: WILL BE CONSTRUCTED AT THE COMMON DRAINAGE . THIS PRACTICE LOCATIONS THAT SERVE AN AREA WITH 10 OR MORE DISTURBED ACRES

AT ONE TIME. THE PROPOSED STORM WATER PONDS (OR TEMPORARY

PONDS) WILL BE CONSTRUCTED FOR USE AS SEDIMENT BASINS. THESE SEDIMENT BASINS MUST PROVIDE A MINIMUM OF 3.600 CUBIC FEET OF

STORAGE PER ACRE DRAINED UNTIL FINAL STABILIZATION OF THE SITE.

THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE MATERIALS

ONSITE RECEIVE PROPER USE AND DISPOSAL

REACHED ONE-THIRD THE HEIGHT OF THE FENCE.

REPORT.

* PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT

* ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED: THEY

THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:

REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES

FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A

ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

CONCRETE TRUCKS SHALL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONLY AT DISCHARGE POINT

MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED ON SITE AND SITE PERSONNEL WILL BE MADE AWARE OF THE

MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL

APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE

THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT

OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE

EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE

* NO MORE THAN 10 ACRES OF THE SITE WILL BE DENUDED AT ONE TIME

* ALL CONTROL MEASURES WILL BE INSPECTED BY THE SUPERINTENDENT, THE PERSON RESPONSIBLE FOR THE DAY TO DAY SITE OPERATION OR SOMEONE APPOINTED BY THE SUPERINTENDENT, AT LEAST ONCE A WEEK AND

* ALL TURBIDITY CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER: IF A REPAIR IS NECESSARY. IT WILL BE INITIATED WITHIN 24 HOURS OF

* BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS

* SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS. AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND. * THE SEDIMENT BASINS WILL BE INSPECTED FOR THE DEPTH OF SEDIMENT,

AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB, WHICHEVER COMES FIRST.

* DIVERSION DIKES/SWALES WILL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED.

* TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH. * A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH

INSPECTION. THE REPORTS WILL BE KEPT ON SITE DURING CONSTRUCTION AND AVAILABLE UPON REQUEST TO THE OWNER, ENGINEER OR ANY FEDERAL, STATE OR LOCAL AGENCY APPROVING SEDIMENT AND AND EROSION

PLANS, OR STORM WATER MANAGEMENT PLANS. THE REPORTS SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM

* THE SITE SUPERINTENDENT WILL SELECT UP TO THREE INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT

* PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE.

SUPERINTENDENT. THEY WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER.

NON-STORM WATER DISCHARGES

IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD:

* WATER FROM WATER LINE FLUSHING * PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR

HAZARDOUS MATERIALS HAVE OCCURRED). * UNCONTAMINATED GROUNDWATER (FROM DEWATERING EXCAVATION).

ALL NON-STORM WATER DISCHARGES WILL BE DIRECTED TO THE SEDIMENT BASIN PRIOR TO DISCHARGE.

CONTRACTOR'S CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERIC STORMWATER PERMIT ISSUED PURSUANT TO SECTION 403.0885, F.S., THAT AUTHORIZES THE STROM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

RESPONSIBLE FOR/DUTIES	GENERAL CONTRACTOR	SUB-CONTRACTOR	SUB-CONTRACTOR	SUB-CONTRACTOR	SUB-CONTRACTOR
BUSINESS NAME AND ADDRESS OF CONTRACTOR & ALL SUBS					
SIGNATURE / DATE					

NOTE TO CONTRACTOR:

CERTIFICATION IS REQUIRED BY THE EPA'S NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES), STORM WATER POLLUTION PREVENTION PLAN FOR CONSTRUCTION SITES OVER 5 ACRES. THIS CERTIFICATION MUST BE COMPLETED WEEKLY AND AFTER EVERY RAINFALL EVENT OVER 0.50 INCHES.

INSPECTION AND CORRECTIVE ACTION REPORT TEMPLATES AND FORMS CAN BE ACCESSED FROM THE WEB ADDRESS LISTED BELOW:

HTTPS://WWW.EPA.GOV/NPDES/CONSTRUCTION-GENERAL-PERMIT-RESOURCES-TOOLS-AND-TEMPLATES#INSPECTION

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