SERENOA (FKA AVALON GROVES) VILLAGES 1 & 2 - PHASE 1A

OWNER/DEVELOPER:

(813) 615-1244 ATTN: GREG MEATH. V.P. LAND DEVELOPMENT

CIVIL ENGINEER: HEIDT DESIGN, LLC

VK AVALON GROVES, LLC

8875 HIDDEN RIVER PARKWAY TAMPA, FL 33637

GARY D. MILLER P.E. 5806-B BRECKENRIDGE PARKWAY

TAMPA, FLORIDA 33610



Engineering Business Certificate of Authorization No. 28782 Landscape Architecture Certificate of Authorization No. LC26000402



SITE MAP (1'=1,000')

GEOTECHNICAL ENGINEER:

DAVID W. FAULKNER, P.E. 2734 CAUSEWAY CENTER DRIVE TAMPA, FLORIDA 33619

3191 MAGUIRE BOULEVARD, SUITE 200 ORLANDO, FL 32803

FAULKNER ENGINEERING

(813) 621-8168 SURVEYOR:

DAVID DeFILIPPO

(407) 426-7979

Prepared For:

VK AVALON GROVES, LLC

8875 HIDDEN RIVER PARKWAY TAMPA, FL 33637 Phone: (813) 615-1244

LEGAL DESCRIPTION

A PORTION OF SECTIONS 13 AND 24, TOWNSHIP 24 SOUTH, RANGE 26 EAST, LYING WITHIN LAKE COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

A PORTION OF SECTIONS 13 AND 24, TOWNSHIP 24 SOUTH, BAMES 26 EAST, LYMICA WITHIN LATE COUNTY, FLORIDA, RENEM GADRE PARTICULARY TOCKNICK OF TAX OF STALLING.

COMMINICE AT THE NORTHWEST CORNER OF THE SOUTH 1,20 OF SOUTHWEST 1/4 OF SAID SECTION 13, TOWNSHIP SOUTH, MORE THE REST, THENCE SECTION THE SOUTH NO. OF THE

Sheet List Table Sheet Number Sheet Title GENERAL NOTES EXISTING CONDITION TYPICAL ROADWAY SECTIONS GRADING & DRAINAGE PLAN STORM STRUCTURE DATA CONTROL STRUCTURE DETAIL C-501 - C-509 ROADWAY PLAN & PROFILE CONSTRUCTION SURFACE WATER MANAGEMENT PLAN DRAINAGE SUR BASIN AREA MAD C-906 C-907 UPLAND BUFFER

NOTE: PER LDF CH. 6.06.01F, SOIL REMOVAL OFFSITE SHALL NOT EXCEED 200% OF THE MINIMUM STORMWATER RETENTION/DETENTION VOLUME REQUIRED.

SERENOA (FKA AVALON GROVES)

VK AVALON GROVES, LLC





ADDRESS CONTROL NUMBER WATER COMMITMENT	
SEWER COMMITMENT	
SWFWMD	
WATER DEP	
SEWER DEP	
FOLIO	

FLEVATIONS BASED ON

FLORIDA PROFESSIONAL ENGINEER	FILE:	COVER						
	PROJECT NO:	KLP-AG-1009						
DocuSigned by:	GRADING 8	DRAINAGE						
L. Som.	DESIGN BY:	FRANCIS						
THE HOSPINSER'S BRIDGED	DRAWN BY:	JONES						
signed and sealed by Gary D. Miller, PE., using a	UTILI							
Digital Signature. Printed copies	DESIGN BY:	FRANCIS						
of this document are not considered signed and sealed	DRAWN BY:	JONES						
and must be verified on any electronic copies.	COVER	SHEET						
GARY D. MILLER DATE: REGISTRATION NO. 52717	C-100							

1/24/2017 | 3:13 PM EST

GENERAL EROSION AND TURBIDITY CONTROL NOTES

- THE SITE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF ALL EROSION AND TURBIDITY
- THE SITS SUBCONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF ALL ERGOION AND TURBIDITY CONTRIGUANT TO CHRISTIC PREVIATIO DESCRIBES BE SOLVETIENTS, OF ALL ERGOION AND TURBIDITY CONTRIGUANT OF WELLAND DESCRIBES DEVILIENTS, OF ALL BROSOON AND TURBIDITY PRODUCTION. THE SITS SUBJECT OF A MAIN TO TURBIDITY AND THE SITS SUBJECT OF A MAIN TO TURBIDITY AND THE SITS SUBJECT OF A MAIN TO TURBIDITY AND THE SITS SUBJECT OF A MAIN TO TURBIDITY AND THE SITS SUBJECT OF A MAIN THE SOLVE AND THE SITS SUBJECT OF A MAIN THE SOLVE AND THE SITS SUBJECT OF A MAIN THE CONSULTATIONS AS NEEDED WITH THE PROJECT FROMERS AND APPROPRIATE A GENERAL SET THE SITS SUBJECT OF A MAIN THE SUBJECT OF A MAIN THE SITS SUBJECT OF A MAIN THE SUBJECT OF A

- CLAYLOW IN IN IN EXAMALED MALERAIS, AND/OR PERMICABILITIS RAILS.

 PSPH OF CORN PROSE, TERMORES, GON UNITUTE UNESS

 PSPH OF CORN PROSE, TERMORES, GON UNITUTE UNESS

 ACTUAL RAINFALL ANGUNTS AND TIME OF YEAR BEATIVE TO NORMAL RAINY SEASON

 PROMIMITY TO WELTHANDS, WATER BOOIS OR PSFH PROPERTIES

 "CLASS DESIGNATION OF RECEIVING WATER BOOISS I.E., OUTSTANDING FLORIDA WATERS, SHELLIPSH HARVESTING AREAS, ETC.)

 DEDISTRY, TYPE, AND PROMINITY OF UP HAND VEGETATION TO BE ETAMBED DURING CONSTRUCTION (FOR USE AS POSSIBLE
- FILTRATION AREAS) FILL HEIGHT RELATIVE TO NATURAL GRADE AND LENGTH AND STEEPNESS OF THE PROPOSED SLOPES

- DURATION OF CONSTRUCTION ACTIVITIES

- M. SEPARATION DISTANCE OF ONSITE PONDS

 A. AMBRIAN QUALITY OF SUPPLICA MISSION GROUNDWATE

 A. AMBRIAN QUALITY OF SUPPLICA MISSION GROUNDWATE

 AT THE ONSIT OF CONSTRUCTION, THE SITE SUBCONTRACTOR, AS THE PARTY RESPONSIBLE FOR IMPLEMENTATION OF THE ROSION

 AT THE ONSIT OF CONSTRUCTION, THE SITE SUBCONTRACTOR, AS THE PARTY RESPONSIBLE FOR IMPLEMENTATION OF THE ROSION

 AT THE ONSIT OF THE ONE OF THE SUBCONTRACTOR OF THE SUBCONTRACTOR OF THE PROPERTY OF THE ONE OF THE SUBCONTRACTOR OF THE SUB
- ISCHARGES OF WATER QUANTITIES WHICH AFFECT OFFSITE PROPERTIES OR MAY DAMAGE WETLANDS ARE ALSO PROHIBITED BY
- THE RESIDENCE OF WAILES QUANTILES WHICH PETER OF PETER TO PETER OF MENTINES OR NOT MANUFACTURE OF REALIST OF MENTINES.

 HE ERSOIN AND TURBIDITY CONTROL MEASURES SHOWN HEREON ARE THE MINIMUM REQUIRED FOR AGENCY APPROVAL

 DODOTTONIAL COMPANION AND MEASURES MAY BE REQUIRED OUT TO THE SITE SUBCONTRACTOR'S CONSTRUCTION SEQUENCES

 UNFORESEEN WEATHER CONDITIONS. ANY ADDITIONAL MEASURES DEEMED NECESSARY PITE SITE SUBCONTRACTOR SHALL

 RICLUED IN THE LUMP SUM BIO WITH NO EXTRAS FOR MATERIALS AND LOADE REALIZED.
- UNFORESEN WEATHER CONDITIONS. ANY ADDITIONAL MEASURES DEFEND INCESSANE BY THE SITE SUBCONTRACTOR SHALL BE WITHOUT AND TO DESTRUCT ANY ADDITIONAL WAY AND A TO SHALL BY A WAY ADDITIONAL WAY ADDITIONAL WAY AND A TO SHALL BY A TO BE PROTECTED FROM CLEANING A TOWN AND CLEANING TO PROTECT WATER QUALITY AND TO DESTRIPS AREAS. TO BE PROTECTED FROM CLEANING A TOWN AND AND A TOWN A
- YPE THAT WILL BE EXPOSED. SILTY AND CLAYEY MATERIAL MAY REQUIRE SOLID SEDIMENT BARRIERS TO PREV DISCHARGE, WHILE SANDY MATERIAL MAY NEED ONLY SILT SCREENS OR HAY BALES TO PREVENT EROSION. FLOATING TURBIDITY CURTAINS SHOULD GENERALLY BE USED IN OPEN WATER STUALTIONS. DIVERSION DITCHES OR SWALES MAY BE REQUIRED TO PREVENT TURBING STORMWATER BUNDEY FROM BEING BOSCHARGED TO WELLANDS OR OTHER WATER BOILDS. IT MAY BE NECESSARY TO EMPLOY A COMBINATION OF BARRIERS, DITCHES, AND OTHER EROSION/TURBIDITY CONTROL MEASURES IF CONDITIONS WARRART.
- HIERE PUMPS ARE TO BE USED TO REMOVE TURBID WATERS FROM CONSTRUCTION AREAS. THE WATER SHALL BE TREATED PRIOR
- WHERE PLWIPS ARE TO BE USED TO REMOVE TURBED WATERS FROM CONSTRUCTION AREAS, THE WATER SHALL BE TREATED PRIOR OF DISCHARGE TO THE WETLANDS. TREATED PRIOR OF DISCHARGE TO THE WETLANDS. TREATED PRIOR SWALLS OR APPROPRIATE UPLAND VEGETATION AREAS (DITHER THAN UPLAND PRESERVATION AREAS AND WETLAND BUFFERS). SWALLS OR APPROPRIATE UPLAND WETLAND UPLAND WETLAND W
- WALLED LIGHTED FROM VARIEDED DUWATERING METHIOLS SPILLUD BE VEASABLE HIROLOGY SUFFICIENT OF METHIOLS OF DESIGNARY WAS LIFTED STATEMENT OF THE METHIOLOGY OF
- ISE TOO HIGH.

 MATRE CAN BE TRANSPORTED AROUND THE SITE BY THE USE OF INTERNAL SWALES OR BY PLIMPS AND PIPES.
 HIETE FLOW OF NEWLY FILLED OR SCRAPED AREAS MAY BE CONTROLLED OR CONTAINED BY THE USE OF BRUSH BARRIERS,
 NUMERON SWALES, THREEFEORD CHOTCHES OR LOW BERMS. FLOWS HOLD BE ORDIFFED TO WARDA REAS WHERE SEDIMENTS CAN
 USEFICIENTY SETTLE OUT.

 POSPOSED SOLDS SHALL BE STABILIZED AS SOON AS POSSIBLE, ESPECIALLY SLOPES LEADING TO WETLANDS. STABILIZATION METHODS
- INCLUDE SOLD SON, SEEDING AND MULCINING OR HYDROMULCHING TO PROVIDE A TEMPORARY OF PERMANENT GRASS COVER MULCINE SOLD SOLD, SEEDING AND MULCINING OR HYDROMULCHING TO PROVIDE A TEMPORARY OF PERMANENT GRASS COVER MULCIN BLANKETS, FILTER PASSICS, ETC., CAN BE EMPLOYED TO PROVIDE YOUR CHECKTATIVE COVER.

 18. ENERGY DOSPATERS (SUCH AS RP MAP, A GRAVEL BED, HAY BALES, ETC.) SHALL BE INSTALLED AT THE DISCHARGE POINT OF PIPES OF
- INMLES IS COURING IS OBSERVED.

 ATTEMPT TO INSTALL RADAWAY CUBB AND GUTTERS AS SOON AS POSSIBLE TO REDUCE THE SURFACE AREA FOR REDSION TO OCCUR.
 MPLEMENT STORM DRAIN NULET PROTECTION (HAV BALES OR GRAVEL) TO LIMIT SEDIMENTATION WITHIN THE STORMWATER
 SYSTEM. PERFORM INSPECTIONS AND PERFORM CLEANING OF SEDIMENTS WHICH WASH OUT INTO THE STREET SURFILL ALL SOIL IS.
- STABILIZED.
 WATER DISCHARGE VELOCITIES FROM IMPOUNDED AREAS AND TEMPORARY SEDIMENTATION BASINS SHALL BE RESTRICTED TO AVOIDS TOURISHING IN RECEIVING AREAS.
- AVOID SCUDRING IN RECEIVING AREAS.

 22. IF WATER CLARITY DOES NOT REDUCE TO STATE STANDARDS RAPIDLY ENOUGH IN HOLDING PONDS. IT MAY BE POSSIBLE TO USE
- 22. IP. WALLEK LAMIN DIES NOT STEULET. TO STATE STANDARDS RAPIDLY PROLIGEN IN HILDING PONDS, IT MAY BE POSSIBLE TO USE CHEMICAL AGENTS SUCHA SALUM FO INCOLUCIALE TO ECOLULATE THE SOBMEN FARMELS. SILT SCREEKS, OR GRAVEL BEDS CAN BE ADDED AROUND THE PIPE OR SWALE DISCHARGE POINTS TO HELP CLABINY DISCHARGES. SPERGADER SWALES MAY HELP DISSIATER CLOUD WATER PRIOR TO CONTICT WITH WHET LAMOS. 24. ALL PULL STORAGE AREAS OR OTHER HAZARDOUS STORAGE AREAS SHALL CONFORM TO ACCEPTED STATE OR FIDERAL CRITERIA FOR SUCH CONTAINMENT AREAS.
- VEHICLE OR FOLLIPMENT WASHDOWN AREAS WILL BE SUFFICIENTLY REMOVED FROM WETLANDS OR OFFSITE AREAS 26. FUGITIVE DUST CONTROLS (PRIMARILY BY USING WATER SPRAY TRUCKS) SHALL BE EMPLOYED AS NEEDED TO CONTROL WINDBORN
- EMISSIONS.
 IF THE ABOVE CONTROLS REMAIN INFEFECTIVE IN PRECLIDING RELEASE OF TURBID WATER, ESPECIALLY DURING POND OR UTILITY INTO DEVATERING, THEN THE CONTRACTOR MAY BE COMPELLED TO USE A VERTICAL DEWATERING. SYSTEM SUCH AS WELL POINTS ON SOCK CORAINS TO WITHIRDAW GROUNDWATER WHICH HAVE A JURGAY BE CLEAR FOUNDED TO ALLOW FOR DIRECT DOSCHMAGET TO
- WETAMAS;
 20. ONCOME BY AND PRIBODE MAINTRANCE BY THE STE SUBCONTRACTION SHALL OCCUP THROUGHBUT CONSTRUCTION
 20. ONCOME BY TO INSIGHT THE ROBOT METHOD AS REVENUES STATEM. THE MAY BE RESERVED BOMBLY OF CONSTRUCTION
 WARRANT. SITE SUBCONTRACTORS ARE ENCOURAGED TO OBTAIN AND THOROUGHLY REVIEW THE FLORIDA DEVILOPMENT
 MANUAL. A GUILD TO SOUND LAND AND WATER MANAGEMENT, WHICH WAS DEVILOPED BY THE STATE OF FLORIDA DEPARTMENT
 MANUAL A GUILD TO SOUND LAND AND WATER MANAGEMENT, WHICH WAS DEVILOPED BY THE STATE OF FLORIDA DEPARTMENT. COMMENTAL PROTECTION IN 1988. THIS PROVIDES FAIRLY IN-DEPTH DISCUSSIONS OF RECOMMENDED TECHN ALSO PROVIDES SPECIFIC DESIGN AND TECHNICAL STANDARDS. A COPY OF THIS DOCUMENT IS AVAILABLE FOR REVIEW AT HEIDT
- DESIGN, LLC
 THE CONTRACTOR WILL PERFORM DAILY INSPECTIONS OF ALL ON-SITE WETLANDS WITHIN THE CONTRUCTION AREA TO ENSURE
 THAT WARTE LEVELS WITHIN THOSE WETLANDS ARE NOT EXCESSIVELY MERQUINGED BRIGK TO THE TIME WHEN THE PERMITTED
 CONTROL STRUCTURE OF OUTFALL IS BUILT. WATER LEVELS SURPLICENTATIVE ADDRESSMEAL SHOULD BE CORRECTED AT A
 FREQUENCY THAT PREVENTS A CHANGE IN THE VEGETATIVE CHARACTER OR HEALTH OF ANY WETLANDS.

SOIL REUSE REQUIREMENTS

AT LEAST THE FOLLOWING SIX (6) TYPES OF MATERIALS ARE PRESENT ON-STIE THAT REQUIRE PROPER HANDLING/FREATMENT BY THE CONTRACTOR, DURING THE COURSE OF STEE DEVELOPMENT/CONSTRUCTION HANDLING/FREATMENT BY THE CONTRACTOR, DURING THE COURSE OF STEE DEVELOPMENT/CONSTRUCTION OF THE CONTRACTOR OF THE CONTRAC WILL BE THE CONTRACTORS SOLE RESPONSIBILITY FOR REMEDY AND REPAIR AT HIS COST. IF THE CONTRACTOR HAS ANY QUESTIONS REGARDING ANY OF THE SOIL MATERIALS ONSITE, THE PROJECT CONTRACTOR WIGH ANY QUESTIONS ASSESSMENT AND THE SOLE IMPLEMENT STATE, THE PROJECT OF CONTRACTOR STATE, THE PROJECT OF THE ADDITIONAL REPORTS (WHICH HE NEEDS TO DEFINITION FROM THE OWNER OR GEOTECHNICAL CONSULTANT) ENGINEER, OR ANY QUESTIONS ASSOCIATED WITH THE NOTES BELOW, IT IS PRESUMED THAT THE CONTRACTOR WILL SATISFACTORILY RESOLVE SUCH QUESTIONS/CONCERNS PRIOR TO SITE DEMOLITION, CLEARING, GRUBBING, STRIPPING AND EXCAVATION OPERATIONS BEGIN.

PLEASE NOTE, LOCAL, STATE AND FEDERAL RULES, LAWS, AND REGULATIONS PROHIBITING SOIL REUSE AS DESCRIBED BELOW SHALL TAKE PRECEDENCE AND SHALL BE FOLLOWED TO THE FULLEST EXTEN

- 1. SITE DEMOLITION DEBIS (SITE DEMOLITION DEBIS), NOT GENERALY CONSIDERED AN ENVIRONMENTAL/CONTAINMATION HAZARD, INCLUDES SUCH TIEMS AS WOOD PIECES, CONDETE PIECE PRASTIC PIECE (SECRISIAM METAL/SECRISE PIECES, OS SIMILAR. F MAY SUCH DEBIS OR OTHER DEMOLITION DEBIS IS CONSIDERED AN ENVIRONMENTAL/CONTAINMATION HAZARD, OR IF BURIAL ONSITE OF SUCH MATERIALS IS PROBIBED BY THE GOVERNING ENVIRONMENTAL AGENCY, THEN ALL SUCH MATERIALS SHALL BE HAULED OFF SITE BY THE CONTRACTOR FOR PROPER DEPOSAL, IN ACCORDANCE WITH ALL APPLICABLE OVERNING ENVIRONMENTAL AGENCY, THEN NO CASE SHALL AN SUCH DEBIS MATERIALS FOR COVERNING ENVIRONMENTAL AGENCY, THEN NO CASE SHALL AN SUCH DEBIS MATERIALS FOR THE STATE OF THE CONTRACTOR FOR PROPER DEPOSAL, IN NO CASE SHALL AN SUCH DEBIS MATERIALS FOR THE CONTRACTOR, BENEATH ANY TIPE OF STRUCTURE, PAVENDERT, ROADWAY, HOUSE, BUILDING, POPELINE, SLAB, ETC.
- ALL SITE DEMOLITION DERRIS SHALL BE REMOVED FROM THE SITE DEVELOPMENT AND DISPOSED OF PROPERLY IN ACCORDANCE WITH ALL APPLICABLE GOVERNING ENVIRONMENTAL AGENCY REQUIREMENTS
- CLEARING AND GRUBBING DEBRIS (SITE CLEARING AND GRUBBING DEBRIS INCLUDES ALL LARGER ORGANI MATERIALS, SUCH ITEMS AS TREES, STUMPS, LIMBS, BRUSH, VEGETATION, OR SIMILIAR; ALL SUCH MATERIAL MUST BE EITHER "BURNED" OR "MULLICHED" BY THE CONTRACTOR PRIOR TO REUSE OR DISPOSAL ONSITE.
- IF ACCEPTABLE TO THE GOVERNING ENVIRONMENTAL AGENCY, THEN ALL SUCH "BURNED" OR "MULCHED" SITE CLEARING/GRUBBING DEBRIS, IF APPROVED IN WRITING FIRST BY THE OWNER/GEOTECHNICAL CONSULTANT/ ENGINEER, COULD BE:
- . PLACED AS "MULCH" MATERIAL SURFACE DRESSING IN FUTURE LANDSCAPE AREAS, STOCKPILING OF ICH"MULCHED" MATERIALS (AMOUNTS/LOCATIONS). IF ACCEPTABLE, WILL BE DIRECTED BY THE OWNER/GEOTECHNICAL CONSULTANT/LANDSCAPE ARCHITECT/ENGINEER;
- B). PLACED IN TEMPORARILY EXCAVATED LITTORAL SHELF AREAS IN SELECTED STORMWATER PONDS, OR IN
- C). PLACED ALONG THE BOTTOM OF SELECTED FLOODPLAIN MITIGATION PONDS (NOT IN SIDE BANKS). NOT BELOW THE PERMITTED EXCAVATION DEPTH OF THE POND, BUT WILL REQUIRE ADEQUATE SOIL COVER
- IN ALL INSTANCES. THE MINIMUM POND DEPTH (INCLUDING FLOODPLAIN AND WETLAND MITIGATION AREAS) SHALL BE NO LESS THAN REQUIRED BY THE ENGINEER.
- ALL ORGANIC DEBRIS BURIAL AREAS IN STORMWATER POND AREAS AND FLOODPLAIN MITIGATION POND AREAS WILL REQUIRE ADEQUARTS SOIL COVER OF 18 -24 MINCHES (WITH COMPACTION) BY THE CONTRACTOR MANIMOS AT LEAST AN DEPOLIATE WEIGHT/THICKNESS OF SOIL MATERIAL OVERTOR THE BURIST DORGANIC DEBRIS, SUCH THAT THERE WILL BE NO FUTURE FLOATING UP OF DEBRIS, AND FOR ALL ORGANIC DEBRIS BURIAL AREAS IN LITTORAL SHEEL AREAS, WEITLAND MITIGATION POND AREAS, AND APASSIVE RECREATION/PARK AREAS, ADEQUATE SOIL/MULCH MIXING (WITH COMPACTION) WILL BE NECESSARY BY THE CONTRACTOR, SUCH THAT NO SIGNIFICANT FUTURE UNACCEPTABLE SETTLEMENT OF A LITTORAL SHELF AREA, CREATED WETLAND AREA, OR PARK/GRASSED AREA WILL OCCUR.
- IF ANY OF THESE PROCEDURES ARE CONTEMPLATED BY THE CONTRACTOR, THEN THE CONTRACTOR SHALL OF THESE PROCESSIANCE OF THESE PROCESSIANCE ON THE SERVICE WAS CONTINUOUS TO BE CONTINUOUS TO THE SERVICE WAS CONTINUOUS TO THE SERVICE WAS CONTINUOUS TO THE SERVICE WAS CONTINUOUS TO THE START OF CONSTRUCTION, MOTHER THE OWNER/GEOTECHNICAL CONTINUOUS THE SERVICE WAS CONTINUOUS TO THE SERVICE WAS CONTINUO
- MUCK/PEAT ORGANIC MATERIALS (TYPICALLY GENERATED FROM WETLAND OR LOWLAND AREAS, OF SIMILAR AREA, FRAMITED FOR IMPACT OR DISPALCEMENT, INCLUDING EXCUATION OF UNSUITABLE ORGANIC MATERIALS AND REFILLING WITH SUITABLE SANDY SOILS TO ACCOMMODATE DEVELOPMENT INFORMATION ORGANIC SAND MALEY OR ACCOMMODATE DEVELOPMENT AMERICAN, DASANIC SAND MALEY ORGANIC SAND MALEY ORG THE CONTRACTOR, IS UNACCEPTABLE BENEATH ANY TYPE OF STRUCTURE, PAVEMENT, ROADWAY, HOUSE BUILDING, PIPELINE, SLAB, ETC.)
- A). PLACED AS "PEAT/MUCK/ORGANIC MATTER" SURFACE LAYER IN NEW OR CREATED WETLAND MITIGATION AREAS, STOCKPILING OF SUCH "SIGNIFICANT ORGANIC" MATERIALS (AMOUNTS/LOCATIONS), IF ACCEPTABLE, WILL BE DIRECTED BY THE OWNER/WETLAND CONSULTANT;
- B). PLACED IN TEMPORABILY EXCAVATED LITTORAL SHELF AREAS IN SELECTED STORMWATER PONDS, OR IN TEMPORABILY EXCLVATED SELECTED WETLAND MITIGATION PONDS, IN BITHER CASE NOT IN SIDE BANKS AND NOT BELOW THE FERMITED DESIGN DEPIN OF THE POND, OR SUCH ORGANIC MATERIALS COLUD BE BURBED IN TEMPORABILY EXCLUSIVED PASSIVE RECREATION/PARK AREAS, (AT LEAST 30 FEET FROM ANY STRUCTURE) AT APPROVED DEPINS/COATIONS, BUT ALL THESE DESPONA AREAS WILL REQUIRE AREQUIRE ASSOLITED. (MIX SOIL WITH THE ORGANIC MATERIALS) AND THEN REFILLING (WITH COMPACTION) TO REQUIRED DESIGN GRADES:
- D.) PLACED ALONG THE BOTTOM OF SELECTED DEEPER STORMWATER PONDS (NOT IN SIDE BANKS), NOT BELOW THE PERMITTED DESIGN DEPTH, BUT WILL REQUIRE ADEQUATE SOIL COVER
- ALL ORGANIC DEBRIS BURIAL AREAS IN STORMWATER POND AREAS AND FLOODPLAIN MITIGATION POND AREAS WILL REQUIRE ADEQUATE SOIL COVER (WITH COMPACTION) BY THE CONTRACTOR, MEANING AT LEAST AN ADEQUATE WEIGHT/HITHCMASS OF SOIL MATERIAL OVERTOP THE BURIED ORSANIC DEBRIS, SURIAL THE THE WILL BE NO FUTURE FLOATING UP OF DEBRIS, AND FOR ALL ORGANIC DEBRIS DURIAL AREAS IN CONTINUE AREAS, WITH AND MINIGATION PROVIDED AREAS, AND PASSAYE RECREATION/PARK AS AS IN ASSAYE DEAG, WITH DASSAYE RECREATION/PARK AS IN ASSAYED AREAS, WITH DASSAYE RECREATION/PARK AS IN ASSAYED AND ASSAYED AS A SOURCE ASSAYED AS A SOURCE ASSAYED AS A SOURCE ASSAYED AS A SOURCE AS A SOURCE ASSAYED AS A SOURCE ASSAYED AS A SOURCE AS A SOURCE ASSAYED AS A SOURCE AS A SOURCE AS A SOURCE ASSAYED AS A SOURCE AS A S

ADEQUATE SOIL/ORGANICS MIXING (WITH COMPACTION) WILL BE NECESSARY BY THE CONTRACTOR, SUCH THAT NO SIGNIFICANT FUTURE UNACCEPTABLE SETTLEMENT OF A LITTORAL SHELF AREA, CREATED WETLAND AREA, OR PARK/GRASSED AREA WILL OCCUR.

- IF ANY OF THESE PROCEDURES ARE CONTEMPLATED BY THE CONTRACTOR, THEN THE CONTRACTOR SHALL NOTHEY THE OWNER/GEOTECHNICAL CONSULTANT/ENGINEER IN WRITING, AT THE START OF CONSTRUCTION WITH SOME SPECIFIC INFORMATION, INCLUDING THE SETMATED QUANTITY AND TYPES OF METABRIALS, TO WHICH STORMWATER PONDS, FLOODPLAIN MITIGATION PONDS, WETLAND MITIGATION PONDS, OR PASSIVE VENIOR S INSTITUTE PURILY, PLANDY LAND, PLANDY LAND, WETLAND MITIGATION PONDS, OR PASS RECREATION/PARK/LANDSCAPE BERM AREAS THEY PROPOSE TO USE FOR THIS TYPE OF ORGANIC MATER DISPOSAL, AND WHAT APPROXIMATE ELEVATIONS WILL BE THE TOP AND BOTTOM OF THE ORGA MATERIALS.
- TOPSOILS/SITE STRIPPINGS (TYPICALLY GENERATED FROM LIPLAND AREAS AFTER RUBBING/DISCING OPERATIONS: STRIPPING OF SURFICIAL ORG DEMOLITIN/LECKINING/RUGBING/DISCHOND OVERATIONS, STRIPPING UP STRIPLING UNDERSTALL UNGWINLS/ UP-SILLS BEING A REQUIREMENT OVER AT LEAST ALL STRUCTURE, BUILDING, CONCRETE SLAB AND PAVEMENT AREA PRIOR TO FILLING TO ACCOMMODATE DEVELOPMENT; INCLUDES TOPSOILS AND ORGANIC LADEN SANDS; THOSE TOPSOILS/ORGANIC SAND MATERIALS WHOSE PRESENCE, OR PLACEMENT BY THE CONTRACTOR, IS UNACCEPTABLE BENEATH ANY TYPE OF STRUCTURE, PAVEMENT, ROADWAY, HOUSE, BUILDING, PIPELINE,
- IF ACCEPTARIETO THE GOVERNING ENVIRONMENTAL AGENCY, ALL SUCH TOPSOILS/ORGANIC LADEN SAND MATERIALS IF APPROVED IN WRITING FIRST BY THE OWNER/GEOTECHNICAL CONSULTANT/FING
- PLACED AS FILL IN NEW (LARGER) LANDSCAPE/GRASS COMMON AREAS OR LANDSCAPE BERM AREAS (WITH COMPACTION), STOCKPILING OF SUCH "TOPSOILS/ORGANIC LADEN SAND (AMOUNTS/LOCATIONS), IF ACCEPTABLE, WILL BE DIRECTED BY THE OWNER/LANDSCAPE CONS
- B). PLACED IN TEMPORARILY EXCAVATED LITTORAL SHELF AREAS IN SELECTED STORMWATER PONDS, OR IN TEMPORARILY EXCAVATED SELECTED WETLAND MITIGATION PONDS, IN EITHER CASE NOT IN SIDE BANKS AND TEMPOPMENT EXCOVATE SECRETIC WE THOUGH MITHERITON PURD, HE THER CASE WITH ITS MEANING AND MOT BELOW THE PERMITTED DESIGN DEPTH OF THE POND, OR SUCH TOPSOILS/ORGANIC LADEN SAND MATERIALS COULD BE BURIED IN TEMPORABILY EXCAVATED PASSIVE RECREATION/PARK AREAS (AT LEAST 30 FEET FROM ANY STRUCTURE) A PAPROVED DEPTH. S/COATRONS, BUT ALL THESE DISPOSAL AREAS WILL REQUIRE REFILLING (WITH COMPACTION) TO REQUIRED DESIGN GRADES;
- C). PLACED ALONG THE BOTTOM OF SELECTED FLOODPLAIN MITIGATION PONDS (NOT IN SIDE BANKS). NOT OW THE PERMITTED EXCAVATION DEPTH OF THE PONE
- D.) PLACED ALONG THE BOTTOM OF SELECTED DEEPER STORMWATER PONDS (NOT IN SIDE BANKS), NOT
- ALL TOPSOIL/ORGANIC LADEN SAND DISPOSAL AREAS IN LITTORAL SHELE AREAS WETLAND MITIGATION ALL TUPSONIÇURGANIC ENDEM SAND DISCOSAL ARREA IN LITTORAL SHELY AREAS, WETURAD MITIGATI PONDO AREAS, PASSIVE RECREATION/PARK AREAS, OR LANDSCAPE/BERM AREAS WILL REQUIRE ADEQUI COMPACTION BY THE CONTRACTOR, SUCH THAT NO SIGNIFICANT FUTURE UNACCEPTABLE SETTLEMENT O LITTORAL SHELF AREA, CREATED WETLAND AREA, PARK/GRASSED AREA, OR LANDSCAPE BERM WILL OCCU
- IF ANY OF THESE PROCEDURES ARE CONTEMPLATED BY THE CONTRACTOR, THEN THE CONTRACTOR SHAL NOTIFY THE OWNER/GEOTECHNICAL CONSULTANT/ENGINEER IN WRITING, AT THE START OF CONSTRUCTION WITH SOME SPECIFIC INFORMATION, INCLUDING THE ESTIMATED QUANTITY AND TYPES OF MATERIALS, TO WHICH STORMWATER PONDS, FLOODPLAIN MITIGATION PONDS, WETLAND MITIGATION PONDS, PASSIV RECREATION/PARK AREAS, OR LANDSCAPE BERN AREAS THEY PROPOSE TO USE FOR THIS TYPE OF ORGANIC DEBRIS DISPOSAL, AND WHAT APPROXIMATE ELEVATIONS WILL BE THE TOP AND BOTTOM OF THE ORGANIC DEBRIS.
- NON-STRUCTURAL CLAYFY SAND/CLAY MATERIALS (TYPICALLY GENERATED FROM POND/LAKE AVATIONS OR FROM UTILITY PIPELINE/MANHOLE EXCAVATIONS: SUCH CLAYEY SAND/CLAY N EXCLAVATIONS OF MOST OFFICE THE REPORT OF TH
- IF ACCEPTABLE TO THE GOVERNING ENVIRONMENTAL AGENCY ALL SLICH CLAYEY SAND/CLAY MATERIALS. IF APPROVED IN WRITING FIRST BY THE OWNER/GEOTECHNICAL CONSULTANT/ENGINEER COLL
- A). PLACED AS FILL IN NEW (LARGER) LANDSCAPE/GRASS COMMON AREAS OR LANDSCAPE BERM AREAS (WITH A), PLALEL AS PILL IN NEW LIGHESEN JAUNGAPE/PRIMASS COMMON RICHES ON MUNISSAIPS BERKIN ARRIS SWITH COMPACTION), PROVIDE SOME SUBFACE DRAININGE RELIEF, USE WHERE INFILITRATION AND BRAINAGE IS NOT AN IMPORTANT ISSUE, PROVIDE SOME SUBFACE SANDY SOILS (MINL OF 18-INCHES) AS DIRECTED BY THE LANDSCAPE CONSULTANT FOR PLANTING. STOCKPUINC OF SUCH "CLAYE" SAND/CLAY MATERIALS" (AMOUNTS/LOCATIONS), IF ACCEPTABLE, WILL BE DIRECTED BY THE OWNER/LANDSCAPE CONSULTANT;
- NOT BELOW THE PERMITTED DESIGN DEPTH OF THE POND. OR SUCH CLAYEY SAND/CLAY MATERIALS COULD BE BURIED IN TEMPORARILY EXCAVATED PASSIVE RECREATION/PARK AREAS (AT LEAST 30 FEET FROM ANY STRUCTURE) AT APPROVED DEPTHS/LOCATIONS, BUT ALL THESE DISPOSAL AREAS WILL REQUIRE REFILLING WITH COMPACTION) TO REQUIRED DESIGN GRADES, AND THE TOP 2 FEET (MIN.) BEING SAND MATERIALS (NOT CLAYEY MATERIALS) FOR TURBIDITY CONTROL AND PLANTING;
- C). PLACED ALONG THE BOTTOM OF SELECTED FLOODPLAIN MITIGATION PONDS (NOT IN SIDE BANKS), NOT C). PACED ALONG THE BOTTOM OF SELECTED FLOUDERIN MITIGATION POINTS (NOT IN 3 BELOW THE PERMITTED EXCAVATION DEPTH OF THE POIND; HOWEVER, A 12-INCH LAYER MATERIAL OVERTOP THE CLAYEY MATERIALS WILL BE NECESSARY FOR TURBIDITY CONTROL.
- D.) PLACED ALONG THE BOTTOM OF SELECTED DEEPER STORMWATER PONDS (NOT IN SIDE BANKS). NOT BÉLOW THE PERMITTED DESIGN DEPTH, HOWEVER, A 12-INCH LAYER (MIN.) OF SAND MATERIAL OVERTOF THE CLAYEY MATERIALS WILL BE NECESSARY FOR TURBIDITY CONTROL.
- ALL CLAYEY SAND/CLAY DISPOSAL AREAS IN LITTORAL SHELF AREAS, WETLAND MITIGATION POND AREAS PASSIVE RECREATION/PARK AREAS, OR LANDSCAPE/BERM AREAS WILL REQUIRE ADEQUATE COMPACTION BY THE CONTRACTOR, SUCH THAT NO SIGNIFICANT FUTURE UNACCEPTABLE SETTLEMENT OF A LITTORAL SHELF AREA, CREATED WETLAND AREA, PARK/GRASSED AREA, OR LANDSCAPE BERM WILL OCCUR.
- IF ANY OF THESE PROCEDURES ARE CONTEMPLATED BY THE CONTRACTOR, THEN THE CONTRACTOR SHALL NOTIFY THE OWNER/GEOTECHNICAL CONSULTANT/ENGINEER IN WRITING, AT THE START OF CONSTRUCTION WITH SOME SPECIFIC INFORMATION, INCLUDING THE ESTIMATE QUANTITY AND TYPES OF MATERIALS, TO WHICH STORMWATER PONDS, FLOODPLAIN MITIGATION PONDS, WETLAND MITIGATION PONDS, ASSIVE RECREATION/PARK AREAS. OR LANDSCAPE BERM AREAS THEY PROPOSE TO USE FOR THIS TYPE OF CLAYEY SAND/CLAY DISPOSAL AND WHAT APPROXIMATE ELEVATIONS WILL BE THE TOP AND BOTTOM OF THE CLAYEY
- HIGHER ELEVATION AREAS, OR FROM UTILITY PIPELINE/MANHOLE EXCAVATIONS, SUCH SAND MATERI WITH TYPICALLY 35° IRNES OR LESS PASSING THE NO. 200 SIEVE, DESIGNATED ETHER SP, SP-SM, SM A-2-4, A-2-5 OR A-3, PER THE UNIFIED AND ANSHTO SOIL CLASSIFICATION SYSTEMS, RESPECTIVELY, S SAND MATERIALS BEING SUITABLE OR ACCEPTABLE FOR REUSE BY THE CONTRACTOR AS BUILDING PAD FILL STRUCTURAL FILL, ROADWAY EMBANKMENT FILL, AND PIPELINE OR MANHOLE EXCAVATION BACKFILL.)
- . SUCH SAND MATERIALS SHALL BE REUSED ONSITE BY THE CONTRACTOR, PER THE GEOTECHNICAL PORTS. AS BUILDING PAD FILL STRUCTURAL FILL ROADWAY EMBANKMENT FILL AND PIPELINE OF REPORTS, AS BULLOMING PAD FILL, STRUCTURAR, FILL, ROADWAY EMBANAMENT FILL, AND PPERLINE OR MANHOLE EXCANDING MACKETIL, PACEDE BY THE CONTRACTION IN LOOSE LIFTS ONT EXCEEDING 21-WINES, COMPACTED TO AT LEAST 59%. OR 98% MODIFIED PROCTOR (PER ASTM D-1557 OR AGAITO 1-130) WHICHEVER IS A PROCEEDING LOON THE FUTURE USE OF THE FILLED AREA (SEE GOTCHINICAL REPORTS). WITH DORSITY TESTING OF EACH FILL LIFT FOR ACCEPTANCE BY THE GOTTECHNICAL CONSULTANT, UOPONC CONTRACTION OF THE CONTRACT AND THE PAGE ACCEPTANCE BY THE GOTTECHNICAL CONSULTANT, UOPONC CONTRACT AND THE PAGE ACCEPTANCE BY THE GOTTECHNICAL CONSULTANT, UOPONC CONTRACT AND THE PAGE ACCEPTANCE BY THE GOTTECHNICAL CONSULTANT, UOPONC CONTRACT AND THE PAGE ACCEPTANCE BY THE GOTTECHNICAL CONSULTANT, UOPONC CONTRACT AND THE PAGE ACCEPTANCE BY THE GOTTECHNICAL CONSULTANT, UOPONC CONTRACT AND THE PAGE ACCEPTANCE BY THE GOTTECHNICAL CONSULTANT, UOPONC CONTRACT AND THE PAGE ACCEPTANCE BY THE GOTTECHNICAL CONSULTANT, UOPONC CONTRACT AND THE PAGE ACCEPTANCE BY THE GOTTECHNICAL CONSULTANT, UOPONC CONTRACT AND THE PAGE ACCEPTANCE BY THE GOTTECHNICAL CONSULTANT, UOPONC CONTRACT AND THE PAGE ACCEPTANCE BY THE GOTTECHNICAL CONSULTANT, UOPONC CONTRACT AND THE PAGE ACCEPTANCE BY THE GOTTECHNICAL CONSULTANT, UOPONC CONTRACT AND THE PAGE ACCEPTANCE BY THE GOTTECHNICAL CONSULTANT, UOPONC CONTRACT AND THE PAGE ACCEPTANCE BY THE GOTTECHNICAL CONSULTANT, UOPONC CONTRACT AND THE PAGE ACCEPTANCE BY THE GOTTECHNICAL CONSULTANT, UOPONC CONTRACT AND THE PAGE ACCEPTANCE BY THE GOTTECHNICAL CONSULTANT, UOPONC CONTRACT AND THE PAGE ACCEPTANCE BY THE GOTTECHNICAL CONSULTANT, UOPONC CONTRACT AND THE PAGE ACCEPTANCE BY THE GOTTECHNICAL CONSULTANT, UOPONC CONTRACT AND THE PAGE ACCEPTANCE BY THE GOTTECHNICAL CONSULTANT, UOPONC CONTRACT AND THE PAGE ACCEPTANCE BY THE GOTTECHNICAL CONSULTANT, UOPONC CONTRACT AND THE PAGE ACCEPTANCE BY THE GOTTECHNICAL CONSULTANT, UOPONC CONTRACT AND THE PAGE ACCEPTANCE BY THE GOTTECHNICAL CONSULTANT, UOPONC CONTRACT AND THE PAGE ACCEPTANCE BY THE CONTRACT AND THE PAGE

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GENERAL PROJECT DATA

FOR IDENTIFICATION OF CONTRACTUAL AGREEMENTS, THIS SET OF DRAWINGS IS DATED

ANY REVISIONS THEREAFTER WILL BE NOTED AND DATED ON THE AFFECTED

DRAWING(S).

THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE HOM THE BIS INCOMMENTS AVAILABLE AND ASK LOVER TOFF THE CONVENIENCE. IS FIRST THE STATE OF ANY LOVER THE STATE OF CAUSED TO THE CONTRACTOR BY THE RELOCATION OF VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT, AND NO EXTRA COMPENSATION WILL BE ALLOWED.

A SINGLE DOINT LITH ITV LOCATION SERVICE HAS BEEN SET UP FOR PARTICIPATING LITHTIES

SOILS/ENVIRONMENTAL/PERMITS

SOILS INVESTIGATIONS FOR THE SITE WERE PROVIDED BY FAULKNER ENGINEERING SERVICES, INC. THE CONTRACTOR IS TO OBTAIN A COPY OF THAT SOILS REPORT FOR REVIEW PRIOR TO CONSTRUCTION; AND THE CONSTRUCTION IS TO CONFORM TO THE RECOMMENDATIONS IN THAT REPORT.

ENVIRONMENTAL/CONSERVATION INVESTIGATIONS: BIO-TECH CONSULTING INC. SURVEY INFORMATION PREPARED BY: AMERICAN SURVEYING & MAPPING PERMITS AVAILABLE TO CONTRACTOR.

AS-BUILTS SHALL BE PROVIDED BY THE CONTRACTOR TO THE ENGINEER TWO WEEKS PRIOR TO PROBLETS SYMELS FOUNDED IN THE CONTINUE TO THE TOWN OF T

PERMITS AND PERMIT REQUIREMENTS

THE CONTRACTOR SHALL OBTAIN FROM THE OWNER COPIES OF ALL REGULATORY AND LOCA AGENCY PERMITS. THE CONTRACTOR SHALL BE EXPECTED TO REVIEW AND ABIDE BY ALL THE REQUIREMENTS AND LIMITATIONS SET FORTH IN THE PERMITS.

THE CONTRACTOR SHALL BE FURNISHED A COPY OF THE N.P.D.E.S. NOTICE OF INTENT APPLICATION AND REPORT WHICH WAS FURNISHED TO EPA BY THE OWNER. THE COI SHALL REVIEW THE CONTENTS OF THAT SUBMITTAL INCLUDING CONSTRUCTION SHALL REVIEW THE CONTENTS OF THAT SUBMITTAL INCLUDING CONSTRUCTION

COMMENCEMENT AND CESSATION DATE AS AN ALL CHIME (LEWISSES ET HE SERVITAL INCLUDING CONSTRUCTION)

MAINTAINING THE EROSION PROTECTION SYSTEM DUBING CONSTRUCTION, NOTHING ANY

CHAMAGES AND/OR MODIFICATIONS AND/OR AGREEMENT OF THE ELEMENTS OF THE ORIGINAL

CONSTRUCTION. THE CONTRACTOR SHALL SEEP ON-SITE A COPY OF THE WATER MANAGEMENT

DETAIL CAN DE J. S. PREMIST SUSHED TOORTHEE WITH THE ROPECTION REPORTS AND

DETAIL CAN DE J. B. PREMIST SUSHED TOORTHEE WITH THE ROPECTION REPORTS AND DISTRICT AND N.P.D.E.S. PERMITS ISSUED LOGG HER WITH THE INSPECTION REPORTS AND CURRENT FLANS, INCLUDING ANY MODIFICATIONS REQUIRED. HE SHALL ALSO PROVIDE A NOTICE OF TERMINATION TO THE N.P.D.E.S. PERMITTING AUTHORITY AT THE CONCLUSION OF THE PROJECT THAT THE DISCHARGE AND EROSION PROTECTION DEVICE AS SHOWN ON THE PLANS HAVE BEEN IMPLEMENTED AND MAINTAINED THROUGHOUT CONSTRUCTION.

LAYOUT AND CONTROL

UNLESS OTHERWISE NOTED ON THE PLANS, THE CONTRACTOS SHALL USE THE GEOMETRY PROVIDED ON THE SHAPE THE SHAPE

QUALITY CONTROL TESTING REQUIREMENTS

ALL TESTING RESULTS SHALL BE PROVIDED TO THE OWNER/OPERATOR, COUNTY, AND THE ENGINEER. TESTING REQUIREMENTS ARE TO BE IN ACCORDANCE WITH THE OWNER/OPERATOR'S SPECIFICATIONS AND REQUIREMENTS. ALL TEST RESULTS SHALL BE PROVIDED (PASSING AND FAULING) ON A REGULAR AND IMMEDIATE BASIS. CONTRACTOR SHALL PROVIDE TESTING SERVICES THROUGH A FLORIDA LICENSED GEOTECHNICAL ENGINEERING FIRM ACCEPTABLE TO THE OWNER AND ENGINEER. NO TESTING TO BE SCHEDULED ON MONDAY OR FRIDAY.

SHOP DRAWINGS AND CERTIFICATIONS FOR ALL STORM DRAINAGE, WATER SYSTEM, AND PAVING SYSTEM MATERIALS AND STRUCTURES ARE REQUIRED. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENSINEER FOR APPROVAL PRIOR TO ORDERING THE MATERIALS REQUIRED FOR CONSTRUCTION.

EARTHWORK

EARTHWORK QUANTITIES

THE CONTRACTOR SHALL PERFORM HIS OWN INVESTIGATIONS AND CALCULATIONS AS NECESSARY TO ASSURE HINSELF OF EARTHWORK QUANTITIES. THERE IS NO IMPLICATION THAT EARTHWORK BLANCES AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY IMPORT FILL NEEDED, OR FOR REMOVAL AND DISPOSAL OF EXCESS MATERIALS.

FROSION CONTROL

EROSION AND SILTATION CONTROL MEASURES ARE TO BE PROVIDED AND INSTALLED PRIOR TO COMMENCEMENT OF CONSTRUCTION. THESE MEASURES ARE TO BE INSPECTED BY THE CONTRACTOR ON A REGULAR BASIS, AND ARE TO BE MAINTAINED OR REPAIRED ON AN IMMEDIATE BASIS, AS REQUIRED. REFER TO ST. JOHNS RIVER WATER MANAGEMENT DISTRICT PERMIT FOR A DOTTIONAL REQUIREMENTS FOR RESIDION CONTROL AND SURFACE DRAINING.

WETLAND PROTECTION

THE LIMITS OF THE ON-SITE WETLANDS HAVE BEEN PROVIDED TO THE CONTRACTOR ON THE CONSTRUCTION PLANS OR ON PERMIT MATERIALS. THE WETLANDS AREAS ARE TO BE PROTECTED FROM DISTURBANCE AT ALL TIMES. CONTRACTOR SHALL PROVIDE EROSION, SILTATION, AND DIVERSION MEASURES PRIOR TO COMMENCEMENT OF CONSTRUCTION. THI CONTRACTOR SHALL OBTAIN A COPY OF EACH PERMIT RELATING TO WETLANDS AND ADHERE TO ALL PROVISIONS AND CONDITIONS THERETO.

LIMITS OF DISTURBANCE

AT NO TIME SHALL THE CONTRACTOR DISTURB SURROUNDING PROPERTIES OR TRAVEL ON SURROUNDING PROPERTIES WITHOUT WRITTEN CONSENT FROM THE PROPERTY OWNER. REPAIR OR RECONSTRUCTION OF DAMAGES DAKES ON SURROUNDING PROPERTIES SHALL BE PREFORMED BY THE CONTRACTOR ON AN IMMEDIATE BASIS. ALL COSTS FOR REPAIRS SHALL BE ETHE RESPONSIBILITY OF THE CONTRACTOR AND NO STATE COMPENSATION SHALL BE

TREE REMOVAL

THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER WHEN ALL WORK IS LAID OUT (SURVEY STAKED), SO THAT A DETERMINATION MAY BE MADE OF SPECIFIC TREES TO BE REMOVED. NO TREES SHOWN ON THE CONSTRUCTION PLANS AS BEING SAVED SHALL BE REMOVED WITHOUT PERMISSION FROM THE OWNER AND ENGINEER

CLEARING AND GRUBBING

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARING AND GRUBBING FOR SITE CONSTRUCTION INCLUDING CLEARING FOR PAVING, UTILITIES, DRAINAGE FACILITIES AND BUILDING CONSTRUCTION. SEE PLANS FOR LIMITS OF CLEARING AND GRUBBING. ALL AREAS TO BE CLEARED SHALL BE FIELD STAKED AND REVIEWED BY THE OWNER AND ENGINEER PRIOR TO ANY CONSTRUCTION

MATERIAL STORAGE / DEBRIS REMOVAL

ALL FILL MATERIALS SHALL NOT CONTAIN MUCK, STUMPS, ROOTS, BRUSH, VEGETATIVE MATTER, RUBBISH OR OTHER MATERIAL THAT WILL NOT COMPACT INTO A SUITABLE AND ENDURING BACKFILL. FILL SHALL BE CLEAN, NON-ORGANIC, GRANULAR MATERIAL WITH NOT MORE THAN 10% PASSING THE NO. 200 SIEVE.

COMPACTION

FILL MATERIALS PLACED UNDER ROADWAYS SHALL BE COMPACTED TO AT LEAST 98% OF THE MAXIMUM DENSITY AS SPECIFIED IN AGSHTO 7-180. ALL DITHER RILL AREAS ARE TO BE COMPACTED TO AT LEAST 59% MAXIMUM DENSITY AS SPECIFIED IN ASHTO 7-180. FILL MATERIALS SHALL BE PLACED AND COMPACTED IN A MAXIMUM OF 12" LIFTS. THE CONTRACTOR SHALL PROVIDE THE REMINIER AND OWNER WITH ALL [PASSION CAND FALLING) TESTING RESULTS. RESULTS SHALL BE PROVIDED ON A TIMELY AND REGULAR BASIS PRIOR TO CONTRACTOR'S PAY REQUEST SUBMITTAL FOR THE AFFECTED WORK.

SANITARY SEWER SYSTEM

THE ENTITY THAT WILL OPERATE AND MAINTAIN THE SEWER SYSTEM SHOWN ON THESE PLANS IS SANLANDO UTILITIES CORPORATION. THE CONTRACTOR SHALL BE EXPECTED TO MEET ALL THE REQUIREMENTS OF THAT ENTITY.

ALL SANITARY SEWER PIPE SHALL BE PVC SEWER PIPE CONFORMING TO ASTM D3034 SDR-35 ALL SANTARY SEWER PRE SHALL BE PVC. SEWER PRE CONFORMING TO ASTHO 2034 50R-3.

INSTALLATION OF PCC. SEWERP PRE SHALL DEPOSITION, DEPOSITIO POLYETHYLENE LINED.

ALL SEWER FITTINGS SHALL BE PVC MEETING THE REQUIREMENTS OF ASTM D3034. FITTINGS SHALL BE SUITABLE FOR USE WITH SDR-35 GRAVITY SEWER PIPE. ALL FITTINGS SHALL HAVE ELASTOMERIC SEALING GASKETS.

JOINTS FOR GRAVITY SEWER PIPE AND ALL FITTINGS SHALL BE ELASTOMERIC RUBBER SEALS. GASKETS SHALL CONFORM TO ASTM F477.

SANITARY STWER MANIFOLES SHALL BE PRECAST CONSTRUCTION. THE MINIMUM SIZE DIAMETER
OF MANIFOLES SHALL BE 48° FOR SEWER LINES 21° NO DIAMETER OR 1835. PRECAST
RENTORCED MANIFOLES SHALL BE ACCESSMENCE WITH SATIO CAPES SEVERICATIONS, WITH
PREFORMED FLORING LIST SHALL SHAME, OR APPROVED EQUAL. THE INTERIOR SURFACES
OF ALL MANIFOLES SHALL BE PROTECTED STYLE APPLICATION OF TWO COATS KOPPEGES
BITUMASTIC 300 M, OR APPROVED EQUAL, APPLIED AT THE RATE OF 120 SQUARE FEET PER
GALLON PER COAT HAMIMIMIM. EXTERNOR SURFACES SHALL RECET TWO COATS KOPPES
BITUMASTIC 300 M, OR APPROVED EQUAL, APPLIED AT THE RATE OF 120 SQUARE FEET PER
GALLON PER COAT HAMIMIM.

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO PROVIDE A FLEXIBLE WATERTIGHT SEAL THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO PROVIDE A REDBBBE WATERTIGHT SEAL OF THE PIPE TO THE MANIOLE. NO ADMISSIONS OR BUBBERGATS SHALL BE REMOVED TO THE DESCRIPTION OF THE PIPE TO THE MANIOLE. THE PIPE TO THE PIPE T

CONSTRUCTION METHODS

INSTALLATION OF GRAVITY SANITARY SEWER SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

IN LAYING OUT THE SANITARY SEWER IN THE FIELD. THE CONTRACTOR SHALL LISE THE STREET IN LAYING PROPERTY SEWEN IN THE HELD, THE LODI FIGURE TO ANY MICH.

(2) COR PROPERTY SEWEN IN THE HELD, THE LODI FIGURE THAN THE MANHOLES AND SINEET ELEVATIONS GIVE NOT THE PLAN AND PROPERTY SHEET. IN THE EVENT OF ANY MINIOR DIFFERENCES IN COLUMN THE SHEET. IN THE VENET OF ANY MINIOR OF THE SANTARY SEWER BLOSS BETWEEN MANHOLES FOR THOSE SHEET, AND THE SANTARY SEWER BLOSS BETWEEN MANHOLES FOR THOSE SHEET, AND THE SANTARY SEWER BLOSS BETWEEN MANHOLES FOR THOSE SHEET, AND THE SANTARY SEWER BLOSS BETWEEN MANHOLES FOR THOSE SHEET, AND THE SANTARY SEWER BLOSS BETWEEN SEWER WITH PREFETS TO SHEET, AND THE SANTARY SEWER BLOSS BETWEEN SEWER SHEET, AND THE SANTARY SEWER BLOSS BETWEEN THE MANHOLE SHEET, AND THE SANTARY SEWER BLOSS BETWEEN SEWER SHEET, AND THE SANTARY SEWER SHEET, AND THE SANTARY SEWER SEWER SHEET, AND THE SANTARY SEWER SEWER SHEET, AND THE SANTARY SEWER SHEET, AND THE SANTARY SEWER THAN 0 30% FOR 8" PIPE OR 0 28% FOR 10" PIPE RE ACCEPTED.

THE CONTRACTOR SHALL STAMP AN "S" IN THE CURB TOP AT EACH SANITARY SERVICE LOCATION. STAMPED "S" SHALL BE HIGHLIGHTED WITH GREEN PAINT. SEE ALSO SEWER DETAIL SHEET FOR SEWER LATERAL MARKING. "SAW" CUTS ARE MOT PERMISSIBLY.

IN THE EVENT THAT GROUNDWATER IS ENCOUNTERED DURING THE CONSTRUCTION OF THE IN THE EVENT THAT INDOORDWITE ITS PRECONTENED OWNER THE CONTRACTOR OF THE THE STEEL RESPONSIBLE FOR THE DESIGN, INSTALLATION, OPERATION, AND SUBSEQUENT REMOVAL OF DEWATERING SYSTEMS AND THE REAFTY AND CONFORMITY WITH LOCAL COUNTY, STATE AND FEDERAL CODES AND REGULATIONS.

AT ALL TIMES DURING CONSTRUCTION, KEEP EXCAVATIONS FREE FROM STANDING WATER SUMPS, IF REQUIRED, SHALL BE LOCATED OUTSIDE OF LOAD BEARING AREAS SO THAT BEARING SWIFACES WILLOWS PROVIDED THE BENTLY BENTLY

PIPE EMBEDMENT

OVER-EXCAVATION. THE CONTRACTOR SHALL REPLACE OVER EXCAVATION WITH CLEAN GRANULAR BACKFILL, AS NOTED BELOW, AND COMPACTED TO A DENSITY OF 98% OF THE AASHTO T-180 MAXIMUM DENSITY AND SHAPED TO FIT THE PIPE SO AS TO GIVE IT CONTINUOUS AND UNIFORM LONGITUDINAL SUPPORT.

AT ALL LOCATIONS WHERE DIDING IS TO BE INSTALLED IN AN AREA WHERE MILKS WAS NOTED.

TRENCH OR EXCAVATION BOTTOM STABILIZATION MATERIAL

SAND SHALL BE WELL GRADED, ORGANIC FREE, DURABLE, GRANULAR MATERIAL, AND SHALL PASS A NO. 4 SIEVE. NOT MORE THAN 10% SHALL PASS A NO. 200 SIEVE.

PIT RUN GRAVEL SHALL BE ORGANIC FREE AND SHALL PASS A 3/4-INCH SIEVE

GRANULAR MATERIAL SHALL BE WELL GRADED, ORGANIC AND TOPSOIL FREE, DURABLE AGGREGATE AND SHALL PASS A 3/4-INCH SIEVE. NOT MORE THAN 10% SHALL PASS A NO. 200 SIEVE.

INFILTRATION TESTING OF THE SANITARY SEWER SYSTEM WILL BE REQUIRED TO BE PERFORMED INVESTIGATION TESTING OF THE SANDLAY SHEW STSTEEM WILL BE REQUIRED IT OF PERVIOUND THE WASHINGTON THE WASHINGTO THE ENGINEER AND THE UTILITY REPRESENTATIVES. EXFILTRATION SHALL NOT EXCEED 200 GALLONS PER DAY PER INCH OF DIAMETER PER MILE OF LENGTH. INCLUDING MANHOLES.

LINE LAMPING WILL BE REQUIRED TO BE PERFORMED BY THE CONTRACTOR AND WITNESSED BY THE ENGINEER AND OWNER/OPERATOR.

THE CONTRACTOR SHALL PROVIDE AT HIS OWN EXPENSE ALL NECESSARY TEST PLIMPING THE CONTRACTOR SHALL PROVIDE AT HIS OWN DEPOSE ALL NECESSARY TEST PUMPING CUMPATION, WAS THE WASTER METERS PERSONE GALDES, AND OTHER EQUIPMENT, MATERIAL AND ACQUITED REQUIRED FOR ALL TESTING OF CONTRACTOR SHALL CONTACT THE NEWMER AND OWNER/DOPATOR IN WHITTEN DOWN, SEVENTY-THOU (27) HOURS IN A WOAVANCE OF PROPOSED TESTING, NO MOST DEPOSED TESTING, NO MODIFICATION. A STATEMENT OF THE CONTRACTOR SHALL PERFORM SATISFACTION FOR THE OWNER FOR THE CONTRACTOR SHALL PERFORM SATISFACTION FOR THE OWNER FOR THE O

THE CONTRACTOR SHALL PROVIDE VERTICAL AND HORIZONTAL "AS-BUILT" INFORMATION RELATIVE TO ALL CONSTRUCTED UTILITIES AND STRUCTURES.
AS-BUILT INFORMATION SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:

- 1 I OCATIONS AND INVERTS OF ALL GRAVITY SEWER LINES, MANHOLES, LIFT STATION WETWELLS AND SERVICE LATERALS AND RIM ELEVATION OF ALL MAN
- 2. HORIZONTAL AND VERTICAL DATA FOR ANY CONSTRUCTION WHICH DEVIATES FROM THE
- 3. DISTANCES OF SEWER LINE LAID FROM MANHOLE TO MANHOLE WITH DISTANCE TIES TO

THE CONTRACTOR SHALL RECOGNIZE AND ABIDE BY ALL OSHA EXCAVATION SAFETY STANDARDS, INCLUDING THE FLORIDA TRENCH SAFETY ACT (90-96, LAWS OF FLORIDA). AN MATERIAL CONSTRUCTION METHODS. OR MATERIAL COST TO COMPLY WITH THESE LAWS SHALL BE INCIDENTAL TO THE CONTRACT.

MINIMUM COVER OVER ALL PIPES SHALL BE 36" FROM TOP OF PIPE TO FINISHED GRADE. SEE PLAN AND PROFILE SHEETS FOR REQUIRED DEPTH

ALL PLUGS, CAPS, TEES, BENDS, VALVES, ETC., SHALL BE PROVIDED WITH RESTRAINED JOINTS OR THRUST BLOCKS (RESTRAINED JOINTS PREFERRED).THRUST BLOCK CONSTRUCTION DETAILS, REFER THRUST BLOCKS (RESTRAINED JOINTS TO UTILITY DETAIL SHEET.

FORCE MAIN

OWNER/OPERATOR

THE ENTITY THAT WILL OWN, OPERATE AND MAINTAIN THE FORCE MAIN SHOWN ON THESE PLANS IS UTILITIES INC OF FLORIDA, SANLANDO UTILITIES CORPORATION (IN ALL OTHER AREAS). THE CONTRACTOR SHALL BE EXPECTED TO MEET ALL THEREQUIREMENTS OF THAT ENTITY.

SANITARY SEWER FORCE MAIN SHALL BE POLYVINYL CHLORIDE PLASTIC PIPE (PVC) AND SHALL CONFORM TO ASTM D2244 PLASTIC PIPE (SO PR & CLASST), ASTM 1798, TYPE (1, 2000 PS DESIGN STRESS. THE PIPE SHALL BE BLAS/JAWWA CSDO, WITH MARKINGS ON EACH SECTION SHOWING CONFORMANCE WITH THE ABOVE SPECIFICATION. JOINTS SHALL BE ELASTOMERIC RUBBER GAKKETE CONFORMING TO ASTM D3139 BY 18 PIPE.

FITTINGS FOR FORCE MAIN SHALL BE MECHANICAL JOINT, DUCTILE IRON CONFORMING TO ANSI/AWWA C110/A21.10 350 PSI MINIMUM PRESSURE RATING. FITTINGS SHALL BE POLYETHYLENE LINED (MIN. 30 MILS CONFORMING TO ASTM D-1248). ALL PLUGS, CAPS, TEES, VALVES, BENDS, ETC., SHALL BE RESTRAINED JOINTS OR THRUST

MINIMUM COVER OVER FORCE MAIN. STANDARD PLUG VALVES SHALL BE MANUFACTURED BY DEZURIK CORP., PRATT, DRESSER, HOMESTEAD INDUSTRIES, OR APPROVED EQUAL.

VALVES SHALL BE FURNISHED WITH A REPLACEABLE CHEVRON PACKING, CAPABLE OF BEING REPACKED WITH THE LINE LINDER PRESSURE

VALVES 4 INCHES IN DIAMETER AND SMALLER SHALL BE WRENCH NUT OPERATED. VALVES LARGER THAN 4 INCHES SHALL BE WORM GEAR OPERATED, EXCEPT WHERE AUTOMATIC OPERATION IS SPECIFIED.

AIR RELEASE VALVE DESIGNED FOR SEWAGE SERVICE SHALL BE INSTALLED IN THE TOPS OF PIPES AIR RELEASE VALVE DESIGNED FOR SEWAGE SERVICE SHALL BE INSTALLED IN THE TOPS OF PIPE. AS INDICATED ON THE TOPS OF THE TOP THE

CHECK VALVES SHALL BE OF THE WEIGHT AND LEVER TYPE, RESILIENT DISK, GRAY IRON, BRONZE TRIM, HORIZONTAL MOUNTED. VALVES SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA C WITH FLANGED CONNECTIONS. VALVES SHALL HAVE A WORKING PRESSURE OF 200 PSI FOR VALVES 2"-12". VALVES SHALL BE DEZURIK, MUELLER, OR APPROVED EQUIAL.

TRENCHING SHALL BE IN ACCORDANCE WITH THE TRENCHING DETAILS PROVIDED ON THE CONSTRUCTION PLANS.

COMPACTED BACKFILL FOR ALL PIPE SHALL BE TO 98% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 FOR UNDER ROADWAYS. OTHER COMPACTION OF BACKFILL SHALL BE TO THE 95% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.

INSTALLATION OF THE SANITARY SEWER FORCE MAIN SHALL BE IN CONFORMANCE WITH ASTM

MINIMUM COVER OVER ALL PIPES SHALL BE 36" FROM TOP OF PIPE TO FINISHED GRADE. SEE

THE FORCE MAIN SHALL BE INSTALLED AS NOTED ON THE PLANS. WHERE APPLICABLE, A THE CYCLE MANIE STRULE BY INSTRUCED AS NOTED ON THE PLANS. WHERE APPLICABLE, A LATERAL SEPARATION OF AT LEAST OF SHALL BE MAINTAINED BETWEEN WATER AND SEWER LINES. WHEN WATER AND SEWER LINES CROSS WITH LESS THAN AN 18" VERTICAL SEPARATION THE PVCS SEWER LINES SHALL BE FANCASED IN CONCRETE OR DUCTILE IRON PIPE USED IN LIEU OF PVC PIPE FOR A DISTANCE OF 10" EITHER SIDE OF THE CROSSING.

ALL PLUGS, CAPS, TEES, BENDS, VALVES, ETC., SHALL BE PROVIDED WITH RESTRAINED JOINTS OR THRUST BLOCKS (RESTRAINED JOINTS PREFERRED) PER UTILITY DETAIL SHEET.

GREEN MAGNETIC INDICATOR TAPE SHALL BE BURIED IN THE FORCE MAIN TRENCH 18" DIRECTI ABOVE THE FORCE MAIN. A CONTINUOUS COPPER DETECTOR WIRE SHALL BE ATTACHED TO TH PIPE AND VALVES AS SHOWN ON THE UTILITY SHEETS.

NECTIONS TO MANHOLE WITH FORCE MAINS SHALL BE MADE BY CORE BORE AND LINK SEAL OR OTHER APPROVED CONNECTION. CONNECTIONS SHALL BE MADE WATERTIGHT AND BE INSTALLED ACCORDING TO THE MANUFACTURERS' RECOMMENDATIONS.

FORCE MAIN SHALL BE PRESSURE AND LEAKAGE TESTED IN ACCORDANCE WITH AWWA FUNCE, MAIN STAILLE BY RESOURE AND LEARNAGE LESSED FOR TWO (2) HOURS AT 100 PSI. STANDARD MAS. FORCE MAIN SYSTEM SHALL BE TESTED FOR TWO (2) HOURS AT 100 PSI. SEVENTY-TWO (72) HOURS WRITTEN ADVANCE NOTIFICATION TO THE ENGINEER AND THE UTILITY COMPANY OF THE TESTING WILL BE REQUIRED. NO TESTING ON MONDAY OR FRIDAY. THE CONTRACTOR SHALL PERFORM SATISFACTION PROTESTING PRIOR TO NOTIFICATION.

THE CONTRACTOR SHALL PROVIDE VERTICAL AND HORIZONTAL "AS-BUILT" INFORMATION RELATIVE TO ALL CONSTRUCTED UTILITIES AND STRUCTURES.

AS-BUILT INFORMATION FOR THE FORCE MAIN SHALL INCLUDE. BUT NOT BE LIMITED TO. THE

- 1. LOCATION OF ALL VALVES, FITTINGS, ETC.
- 2. LOCATION OF THE FORCE MAIN TIED HORIZONTALLY TO THE BACK OF CURB OR EDGE OF
- 3. CERTIFICATION AS TO THE SYSTEM MEETING THE MINIMUM COVER REQUIREMENTS
- HORIZONTAL AND VERTICAL DATA FOR ANY CONSTRUCTION WHICH DEVIATES FROM THE APPROVED ENGINEERING DRAWINGS.

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RECLAIMED WATER INFRASTRUCTURE SYSTEMS

OWNER/OPERATOR

THE ENTITY THAT WILL OWN, OPERATE AND MAINTAIN THE SYSTEM SHOWN ON THESE PLANS IS SANLANDO UTILITIES CORPORATION. THE CONTRACTOR SHALL BE EXPECTED TO MEET ALL THE REQUIREMENTS OF THAT ENTITY.

PIPE MATERIALS

POLYVINYL CHLORIDE PLASTIC PIPE (PVC) 4" THROUGH 12" SHALL BE MANUFACTURED IN POLEVINITE CHILDRIDE PLASTIC PIECEPUL 3 - THRUDISH 12 SPAILL BE MANDIMAL UNELD IN ACCORDANCE WITH ANSJAWAW COOD (LATEST BOTTOM) AND SHALL HAVE A MINIMUM WORKING PRESSURE OF 150 PSI AND HAVE A DR (DIMENSION RATIO) OF IS. ALL PIPE SHALL BE LABELED "RECLAIMED WATER" OR "NON POTABLE WATER" PROMINENTLY ON P PIPE JOINT. JOINTS SHALL BE OF THE PUSH-ON TYPE AND COUPLINGS CONFORMING TO ASTM D3139 DR18 PIPE.

DUCTILE IRON PIPE (DIP) SHALL BE STANDARD PRESSURE CLASS 350 IN SIZES 4" THROUGH 12" AND CONFORM TO ANSJAWWA CLSO/AZLS 0 (LATEST EDITION). ALL DUCTILE IRON PIPE SHALL HAVE A STANDARD THICKNESS OF CLEMENT MORTAR LINING AS SPECIFIED IN ANSJAWWA CLIOJA/AZI ((LATEST EDITION). PIPE JOINTS SHALL BE OF THE PUSH-ON RUBBER GASKET TYPE CONFORMINGT ON ANSJAWWA CLIOJA/AZI. 11 (LATEST EDITION).

PIPE SIZES GREATER THAN $12^{\rm m}$ in both PVC and ductile iron shall be separately specified on the plans; with thickness classes to be shown based on working pressures, pipe depth and trench conditions.

FITTINGS FOR DUCTUE IRON PIPE AND PVC C900 PIPE SHALL BE DUCTUE IRON AND SHAL CONFORM TO ANSI/AWWA C110/A21.10 (LATEST EDITION) AND SH. CONFORMANCE WITH ANSI/AWWA C104/A21.4 (LATEST EDITION).

POLYETHYLENE WRAP USED FOR CORROSION PREVENTION ON DUCTLE IRON PIPE SHALL CONFORM TO THE REQUIREMENTS OF ANSI/ASTM D1248. THE MINIMUM NOMINAL THICKNESS SHALL BE 2008 IN. (B MILS). INSTALLATION OF POLY WRAP SHALL BE IN ACCORDANCE WITH AWWA CLOS.

VALVES

GATE VALVES SAULE BE RESURED T SATE AND SHALL CONFORM TO ANSYMMOV, COSE OF WITH HANDWHEED ON WERSTCH HOT, TOTTOMON STYME AND OTHER APPRITMANCES AS REQUIRED. MANUFACTURER'S CERTIFICATION OF THE WALVES' COMPLIANCE WITH AWWAS SPECIFICATION COSE AND TASTS LISTED THERRIN WILL BE REQUIRED. VALVE ON PAOR SHALL BE IN SEY 1SEY. 4"THICK CONCRETE WITH ARE REPRODICING BARS. FAOT TO BE ST AT TRINSIED GRADE. VALVES SHALL BE CLOW, MULLELE, KENNEDY, MAN, AMERICAND MARKIN, OR APPROVED THE

BUTTERFLY VALVES

BUITTERELY VALVES SHALL MEET OR EYCEED THE DESIGN STRENGTH TESTING AND PERFORMANCE REQUIREMENTS OF AWWA C504, CLASS 150. VALVES SHALL BE DUCTILE IRON RESILIENT SEAT, AND BE MANUFACTURED BY KENNEDY, MUELLER, M&H, AMERICAN DARLING, OR APPROVED EQUAL. BUTTERFLY VALVES TO BE USED FOR SIZES GREATER THAN 12".

AIR RELEASE VALVES SHALL BE PLACED AT HIGH POINTS OF THE TRANSMISSION MAIN TO PERMIT ESCAPE OF TRAPPED AIR. THE VALVE SIZE, LOCATION, AND METHOD OF INSTALLATION SHALL BE INDICATED ON THE DRAWNINGS, OR AS DIRECTED BY THE ENGINEER. AIR RELEASE VALVES SHALL BE VALVEMATIC OR APPROVED EQUAL.

VALVE BOXES ON BURIED RECLAIMED WATER MAINS SHALL BE ADJUSTABLE, CAST IRON CONSTRUCTION, WITH A MINIMUM INTERIOR DIAMETER OF 5" WITH COVERS CAST WITH THE INSCRIPTION IN LEGIBLE LETTERNO OF THE TOP: RECLAIMED WATER. BOXES SHALL BE SUITABLE FOR THE APPLICABLE SURFACE LOADING AND VALVE SIZE, AND SHALL BE MANUFACTURED BY MUELLER COMPANY, MODEL 10364, OA PROPODED EQUAL.

PIPE INSTALLATION OF PVC RECLAIMED WATER MAIN SHALL BE IN CONFORMANCE WITH ASTM D2774 (LATEST EDITION). INSTALLATION OF DUCTILE IRON PIPE RECLAIMED WATER MAIN SHALL BE IN CONFORMANCE WITH AWWA GEOD.27 (LATEST EDITION).

COMPACTED BACKFILL SHALL BE TO 98% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 UNIDER LLE DACKETILE SYNCLE SE 17 MAXIMUM LIFT THICKNESS. OTHER COMPACTION OF BACKFILL SHALL BE TO 95% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 WITH 12* MAXIMUM LIFT THICKNESS. SEE PIPE TRENCHING DETAILS.

MINIMUM COVER OVER ALL PIPE SHALL BE 36" FROM TOP OF PIPE TO FINISHED GRADE. SEE PLAN AND PROFILE SHEETS FOR REQUIRED DEPTH.

RECLAIMED WATER MAINS ARE TO BE INSTALLED SO AS TO PROVIDE A MINIMUM VERTICAL CLEARANCE RECURINGE WATER MINISTARE 10 SE INSTALLEDS OF 10 PROVIDE A MINIMUM VERTICAL CE OF 18° OR A MINIMUM HORIZONTAL CLEARANCE OF 5 FEET FROM ALL SANTRAY HAZARDS INCLUDING STORM DRAINAGE PIPES AND STRUCTURES, AS WELL AS SEPTIC TANK DRAINFIELDS AND SEWER PIPMG. IF CLEARANCE CANNOT BE ACHIEVED, THE PIC WATER MAIN SHALL BE ENCASED IN CONCRETE OR DUCTILE IRON PIPE USED IN LIEU OF PVC PIPE FOR 10° EACH SIDE OF WATER/STORM SEWER CROSSING. IF WATER/SANITARY SEWER CROSSING. IF WATER/SANITARY SEWER CROSSING.

ALL PLUGS, CAPS, TEES, BENDS, VALVES, ETC., SHALL BE PROVIDED WITH THRUST BLOCKS/RODDED RESTRAINTS. FOR THRUST BLOCK CONSTRUCTION DETAILS, REFER TO THE UTILITY DETAILS HEET.

THE MATER MAIN. A CHIEFD IN THE RECLAIMED WATER MAIN TRENCH 35" DIRECTLY ABOVE THE WATER MAIN. A CONTRIBUDIOUS COPPER DETECTION WIRE SHALL BE ATTACHED AS SHOWN ON THE RECLAIMED WATER DETAIL SHEET, INDICATOR TAPE SHALL CALL DUT THAT A RECLAIMED OR NON POTABLE SYSTEM IS BELOW. PIPE SHALL BE COLOR CODED PURPLE IN ADDITION TO MARKING, IF AVAILABLE. INDICATOR TAPE SHALL BE BURIED IN THE RECLAIMED WATER MAIN TRENCH 18" DIRECTLY ABOVE

ALLOWABLE LEAKAGE FOR PVC PRESSURE MAINS WILL BE IN ACCORDANCE WITH AWWA M23.

THE CONTRACTOR SHALL PROVIDE S PINE OWN EDTRESS, ALL RECESSANY TEST FUNDING SECURITIES AND THE CONTRACTOR SHALL PROVIDE SECURITIES RECEIVED FOR THE CONTRACTOR SHALL SHALL SECURITIES RECURSED FOR MY SHACK PROSCIATAL AND FLANGET STSTING. CONTRACT TOES SHALL SH

THE RECLAIMED WATER SYSTEM SHALL BE TESTED FOR LEAKAGE AT 150 PSI FOR TWO (2) HOURS, WITH ALLOWABLE LEAKAGE IN ACCORDANCE WITH ABOVE STANDARDS.

AS-BUILT DRAWINGS

THE CONTRACTOR SHALL PROVIDE VERTICAL AND HORIZONTAL "AS-BUILT" INFORMATION RELATIVE TO ALL CONSTRUCTED UTILITIES AND STRUCTURES.

AS-BUILT INFORMATION FOR THE WATER SYSTEM SHALL INCLUDE, BUT NOT BE LIMITED TO, THE

- 1. LOCATION OF ALL VALVES, FITTINGS AND SERVICES.
- 2. LOCATION OF THE WATER MAIN TIED HORIZONTALLY TO THE BACK OF CURB OR EDGE OF
- 3. CERTIFICATION AS TO THE SYSTEM MEETING THE MINIMUM COVER REQUIREMENTS.
- 4. HORIZONTAL AND VERTICAL DATA FOR ANY CONSTRUCTION WHICH DEVIATES FROM THE

POTABLE WATER / FIRE SYSTEMS

THE ENTITY THAT WILL OWN, OPERATE AND MAINTAIN THE WATER SYSTEM SHOWN ON THESE PLANS IS SANLANDO UTILITIES CORPORATION. THE CONTRACTOR SHALL BE EXPECTED TO MEET ALL THE REQUIREMENTS OF THAT ENTITY.

POLYVINYL CHLORIDE PLASTIC PIPE (PVC) 4" THROUGH 12" SHALL BE MANUFACTURED IN POLEVINITE CHILDRIDE PLOSTIC PIECE (PECE) 4 THROUGH 12 STRUCE DE MANDACLORED IN ACCORDANCE WITH ANS/JAWAN C900 (LATEST EDITION) AND SHALL HAVE A MINIMUM WORKING PRESSURE OF 150 PSI AND HAVE A DR (DIMENSION BATIO) OF 18. ALL PVC PIPE SHALL BEAR THE MS LOGG OF ROTTAILE WATER. JOINTS SHALL BE OF THE PUSH-ON TYPE AND COUPLINGS CONFORMING TO ASTM 03139 DR18 PIPE.

DUCTUE IRON PIPE (DIP) SHALL RE STANDARD PRESSURE CLASS 350 IN SIZES 4" THROUGH 12" DUCTILE IRON PIPE (IDP) SHALL BES I JANGUAD PRESSURE CLASS 350 IN SLES 4" THROUGH 12" AND CONFORM TO ANSI/AWWA C150/A21.50 (LATES TOTHON). ALL DUCTILE IRON PIPE SHALL HAVE A STANDABO THICKNESS OF CEMENT MORTAR LINING AS SPECIFIED IN ANSI/AWWA C104/A214 (LATEST EDITION). PIPE IONITS SHALL BE OF THE PUSH-ON RUBBER GASKET TYPE CONFORMING TO ANSI/AWWA C111/A21.11 (LATEST EDITION).

PIPE SIZES GREATER THAN 12" IN BOTH PVC AND DUCTILE IRON SHALL BE SEPARATELY SPECIFIED ON THE PLANS; WITH THICKINESS CLASSES TO BE SHOWN BASED ON WORKING PRESSURES, PIPE DEPTH AND TRENCH CONDITIONS.

FITTINGS FOR DUCTILE IRON PIPE AND PVC C900 PIPE SHALL BE DUCTILE IRON AND SH CONFORM TO ANSI/AWWA C110/A21.10 (LATEST EDITION) AND SHALL BE CEMENT LI CONFORMANCE WITH ANSI/AWWA C140/A21.4 (LATEST EDITION).

POLYETHYLENE WRAP USED FOR CORROSION PREVENTION ON DUCTILE IRON PIPE SHALL CONFORM OT THE REQUIREMENTS OF ANSI/STATE DIZE. SET THE MINIMUM NOMINAL THICKNESS SHALL BE 0.008 IN. (B MILS). INSTALLATION OF POLY WRAP SHALL BE IN ACCORDANCE WITH AWWA CLOS.

GATE VALVES SHALL BE RESILIENT SEAT AND SHALL CONFORM TO ANSI/AWWA C509.87 WITH ONLY WAVES SHALL BE REJILENT SEAT AND STREAL CHANTON IN O ANOLYMWAY LOUGHEN AND THE RAPPURTENANCES AS REQUIRED. MANUFACTURER'S CERTIFICATION OF THE VALVES' COMPLIANCE WITH AWWAS SECRICATION WAND FALL BE REQUIRED. WAVES BOX AND STANLED BY THE REPORT OF THE VALVES COMPLIANCE WITH AWWAS SECRICATION AND THE VALVES COMPLIANCE WITH AWWAS SECRICATION AND THE VALVES OF AND THE VALVE BOX AND STALL BE LEEN'S X18" X 18" X

BUTTERFLY VALVES

BUTTERFLY VALVES SHALL MEET OR EXCEED THE DESIGN STRENGTH TESTING AND PERFORMANCE REQUIREMENTS OF AWAWA CSQ4, CLASS 150. VALVES SHALL BE DUCTILE IRON, RESILIENT SEAT, AND BE MANUFACTURED BY KENNEDY, MUELLER, M&H, AMERICAN DARLING, OR APPROVED EQUAL BUTTERFLY VALVES TO BE USED FOR MAIN SIZES GREATER THAN 12".

AIR RELEASE VALVES

AIR RELEASE VALVES SHALL BE PLACED AT HIGH POINTS OF THE TRANSMISSION MAIN TO PERMIT ESCAPE OF TRAPPED AIR. THE VALVE SIZE, LOCATION, AND METHOD OF INSTALLAS SHALL BE INDICATED ON THE DRAWINGS, OR AS DIRECTED BY THE ENGINEER. AIR RELEAS VALVES SHALL BE CRISPIN PRESSURE AIR VALVE TYPE N, APCO, OR VALVE & PRIMER CORP OR VAL-MATIC CORPORATION.

VALVE BOXES ON BURIED POTABLE WATER MAINS SHALL BE ADJUSTABLE, CAST IRON CONSTRUCTION, WITH A MINIMUM INTERIOR DIAMETER OF 5" WITH COVERS CAST WITH THE INSCRIPTION IN LEGIBLE LETTERING ON THE TO". WATER. BOXES SHALL BE SUITABLE FOR THE APPLICABLE SURFACE LOADING AND VALVE SIZE, AND SHALL BE MANUFACTURED BY MUELLER COMPANY, MODEL 10364, OR APPROVED EQUAL.

FIRE HYDRANTS SHALL CONFORM TO THE LATEST EDITION OF AWWA C502.85 AND SHALL BE URNISHED COMPLETE WITH WRENCH AND OTHER APPURTENANCES. MANUFACTURER'S FURNISHED CONVECTE WITH WEREART AND UT HER APPORT TENNINGES. MANUFACTURES SCENTIFICATION OF COMPLIANCE WITH ANWAY CSD AND ESTS LISTS TO HEREIN WILL BE REQUIRED. ALL HYDRAMTS SHALL BE OF BERAARBLE TYPE, WITH THE BERAARBLE SCELION LICCATED SLIGHTLY ABOVE THE FIRITHS (ROUND LINE. HYDRAMTS SHALL CONTAIN TWO, TO AND ONE-HALF INCH 12-1/27) HOSE CONNECTIONS, AND ONE, FOUR AND ONE-HALF INCH STRAME CONNECTIONS WITH AND AND ALL STRAMER CONNECTIONS WITH AND AND ALL STRAMER CONNECTIONS WITH AND AND ALL STRAMER CONNECTIONS WITH A WARD AND ALL STRAMER CONNECTIONS WITH STEAMER CONNECTIONS WITH NATIONAL STANDARD FIRE HOSE COULDING SCREW THREADS, FIVE AND ONE-QUARTER RICK (15-12) VALVE OPENING, SIX KICK (16) DAMARTER MECHANICAL OFFICE AND CONTROL OF THE STANDARD STAN DARLING B-84-B. NO SUBSTITUTES

- BLUE PAVEMENT REFLECTORS (RPM'S) SHALL BE PLACED IN THE CENTERLINE OF THE DRIVING LANE DIRECTLY IN FRONT OF EACH FIRE HYDRANT.
- 3. THERE SHALL BE NO TREES, SHRUBS, ETC., PLANTED AROUND THE FIRE HYDRANTS OR IN AREAS DESIGNATED AS FIRE LANES.

UNLESS OTHERWISE NOTED IN THE PLANS, THE UTILITY COMPANY SHALL PROVIDE AND INSTALL WATER METERS. CONTRACTOR SHALL CONSTRUCT WATER SERVICE THROUGH THE CURB STOP AS SHOWN ON THE CONSTRUCTION PLANS.

POLYETHYLENE (PE) PRESSURE PIPE FOR WATER SERVICES 3/4" THROUGH 2" SHALL BE ENDOT, ENDOPURE, BLUE PIPE AND CONFORM TO AWWA C901.88, MIN 200 PSI.

ALL SERVICES SHALL INCLUDE THE FOLLOWING: CURB STOPS, "U" BRANCHES, UNIONS AS REQUIRED, PE SERVICE PIPE AND CORPORATION STOPS AND METER BOX. THE SERVICE SHALL BE COMPLETE THROUGH THE CURB STOP AS SHOWN ON THE DETAIL SHEET, AND SHALL BE OF THE TYPE REQUIRED FOR COMPATIBILITY WITH THE SERVICE LINES SPECIFIED, AND FITTINGS SHALL BE AS MANUFACTURED BY THE MULLER CORPORATION OR HAY'S OR FORD.

THE CONTRACTOR SHALL STAMP "W" IN THE CURB TOP AT EACH WATER SERVICE AND A "V" AT ALL VALVE LOCATIONS. STAMPED W'S AND V'S SHALL BE HIGHLIGHTED WITH BLUE PAINT. SEE WATER DETAIL SHEET FOR OTHER SERVICE LOCATION AND MARKING REQUIREMENTS. "SAW" CUTS ARE NOT PERMISSIBLE.

PIPE INSTALLATION OF PVC WATER MAIN SHALL BE IN CONFORMANCE WITH ASTM D2774 (LATEST EDITION). INSTALLATION OF DUCTILE IRON PIPE WATER MAIN SHALL BE IN CONFORMANCE WITH AWWA G600.87.

COMPACTED BACKFILL SHALL BE TO 98% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 UNDER ALL PAVEMENTS WITH 12" MAXIMUM LIFT THICKNESS. OTHER COMPACTION OF BACKFILL SHALL BE TO 95% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 WITH 12" MAXIMUM LIFT THICKNESS. SEE PIPET RENOCHING DETAILS.

MINIMUM COVER OVER ALL PIPE SHALL BE 36" FROM TOP OF PIPE TO FINISHED GRADE. SEE PLAN AND PROFILE SHEETS FOR REQUIRED DEPTH.

WATER MAINS ARE TO BE INSTALLED SO AS TO PROVIDE A MINIMUM VERTICAL CLEARANCE OF

ALL PLUGS, CAPS, TEES, BENDS, FIRE HYDRANTS, VALVES, ETC., SHALL BE PROVIDED WITH THRUST BLOCKS/RODDED RESTRAINTS. FOR THRUST BLOCK CONSTRUCTION DETAILS, REFER TO THE UTILITY DETAILS HEET.

BLUE INDICATOR TAPE SHALL BE BURIED IN THE WATER MAIN TRENCH 18" DIRECTLY ABOVE THE WATER MAIN. A CONTINUOUS COPPER DETECTOR WIRE SHALL BE ATTACHED AS SHOWN ON THE

DISINFECTION AND TESTING

ALL PIPE SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA STANDARD C651.86. ALLOWABLE LEAKAGE FOR PVC PRESSURE MAINS WILL BE IN ACCORDANCE WITH AWWA M23.

THE CONTRACTOR SHALL PROVIDE AT HIS OWN EXPENSE ALL NECESSARY TEST PUMPING EQUIPMENT, WATER, WATER METERS, PRESSURE GAUGES, AND OTHER EQUIPMENT, MATERIAL AND FACILITIES REQUIRED FOR ALL HYDROSTATIC AND LEAKAGE TESTING. CONTRACTOR SHALL CONTACT THE ENGINEER AND OWNER/OPERATOR IN WRITTEN FORM, SEVENTY-TWO (72) HOURS IN ADVANCE OF PROPOSED TESTING. THE CONTRACTOR SHALL PERFORM SATISFACTOR PRETESTING PRIOR TO NOTIFICATION. TESTING SHALL ONLY BE SCHEDULED ON A TUESDAY, WEDNESDAY OR THURSDAY.

THE WATER SYSTEM SHALL BE TESTED FOR LEAKAGE AT 150 PSI FOR TWO (2) HOURS, WITH ALLOWABLE LEAKAGE IN ACCORDANCE WITH ABOVE STANDARDS.

CONTRACTOR SHALL OBTAIN A COPY OF THE FDEP WATER SYSTEM PERMIT AND PULL BACTERIOLOGICAL TEST SAMPLES FROM THE SAMPLE POINTS SPECIFIED IN THAT PERMIT.

PRIOR TO THE CONNECTION TO ANY EXISTING MAIN, THE PROPOSED WATER MAIN SHALL BE DISINFECTED, HAVE ENGINEER APPROVED PRESSURE TESTING AND HAVE FDEP CLEARANCE. REFER TO FORP PERMIT FOR ANY ADDITIONAL REQUIREMENTS.

THE CONTRACTOR SHALL PROVIDE VERTICAL AND HORIZONTAL "AS-BUILT" INFORMATION RELATIVE TO ALL CONSTRUCTED UTILITIES AND STRUCTURES.

AS-BUILT INFORMATION FOR THE WATER SYSTEM SHALL INCLUDE, BUT NOT BE LIMITED TO, THE

- 1. LOCATION OF ALL VALVES. FITTINGS. HYDRANTS AND SERVICES
- 2. LOCATION OF THE WATER MAIN TIED HORIZONTALLY TO THE BACK OF CURB OR EDGE OF
- 3. CERTIFICATION AS TO THE SYSTEM MEETING THE MINIMUM COVER REQUIREMENTS
- 4. HORIZONTAL AND VERTICAL DATA FOR ANY CONSTRUCTION WHICH DEVIATES FROM THE

四昌 Η AVALON GROVE & 2 - PHASE 1A NOTES

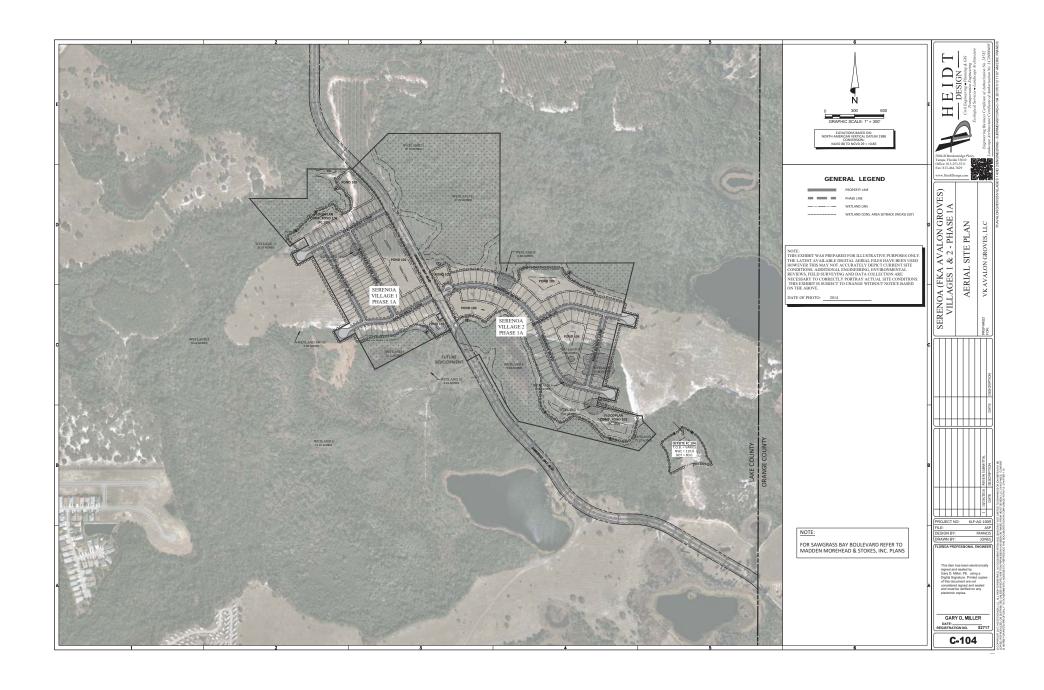
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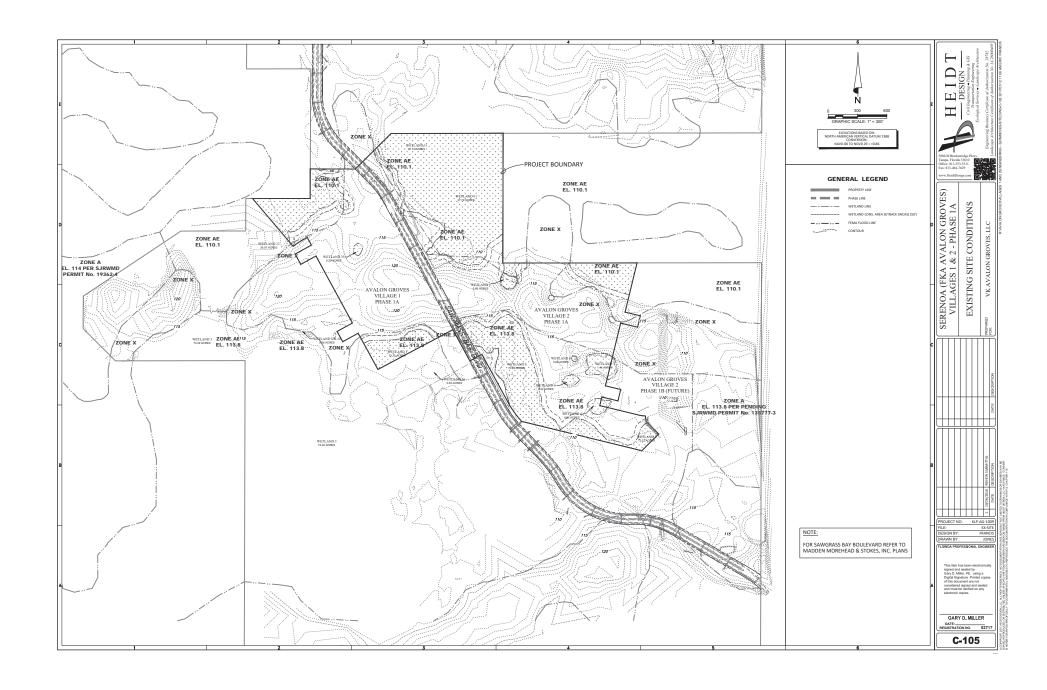
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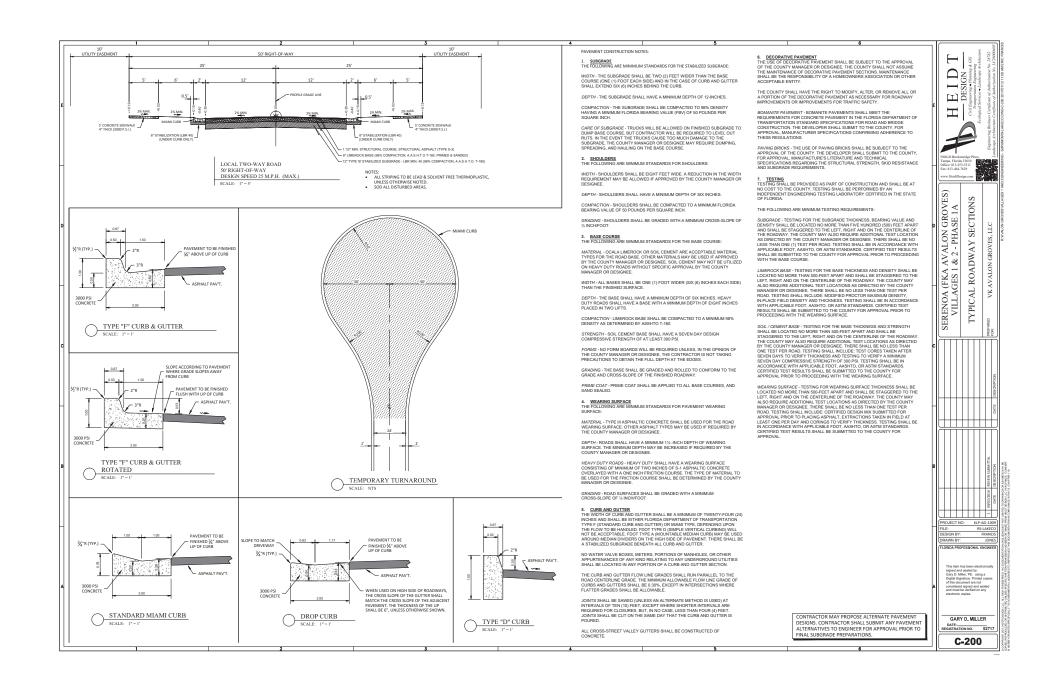
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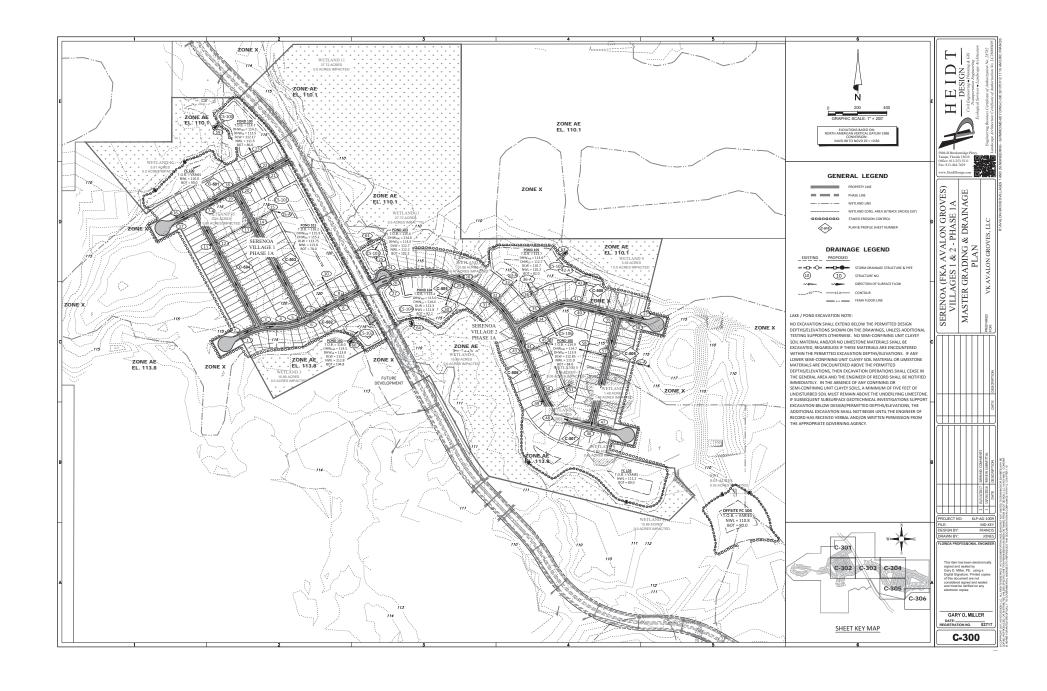
GARY D. MILLER

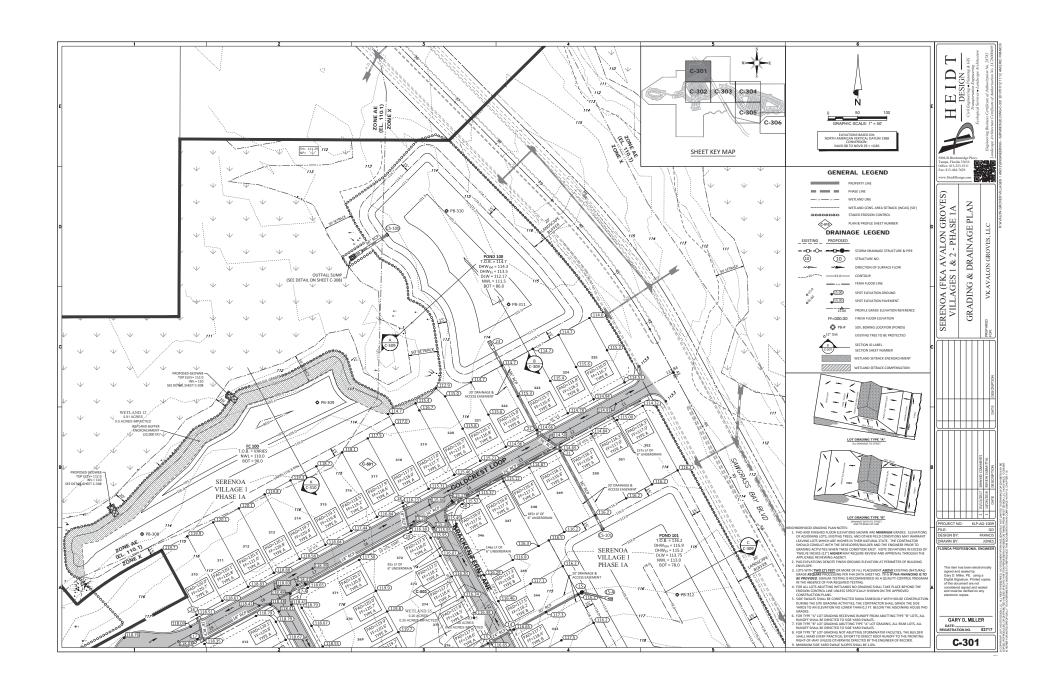
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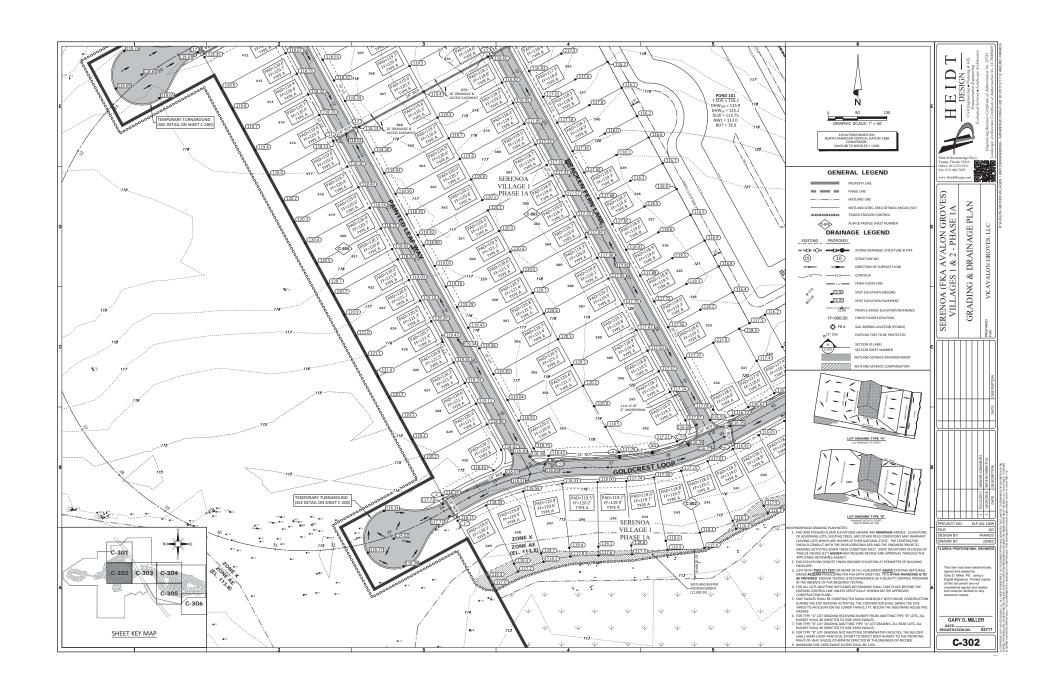


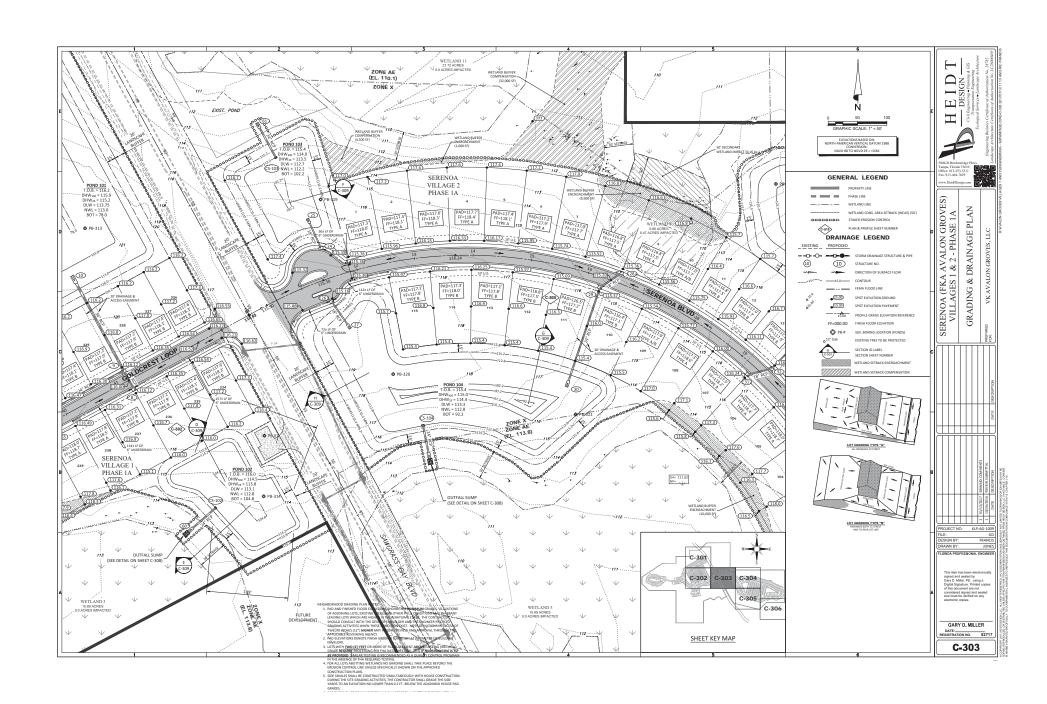


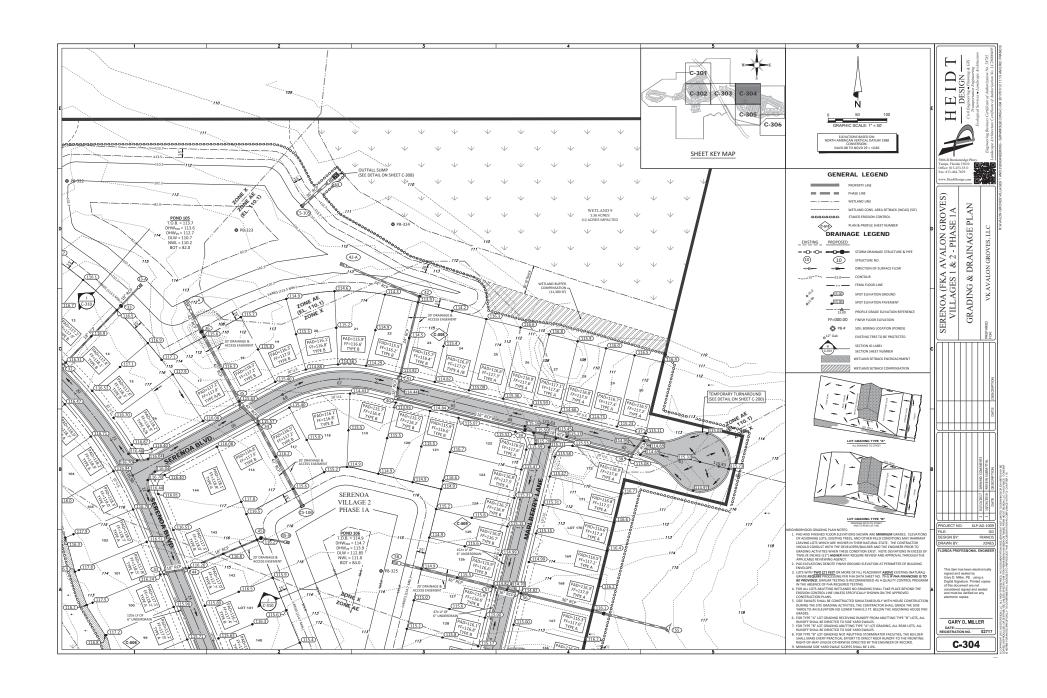


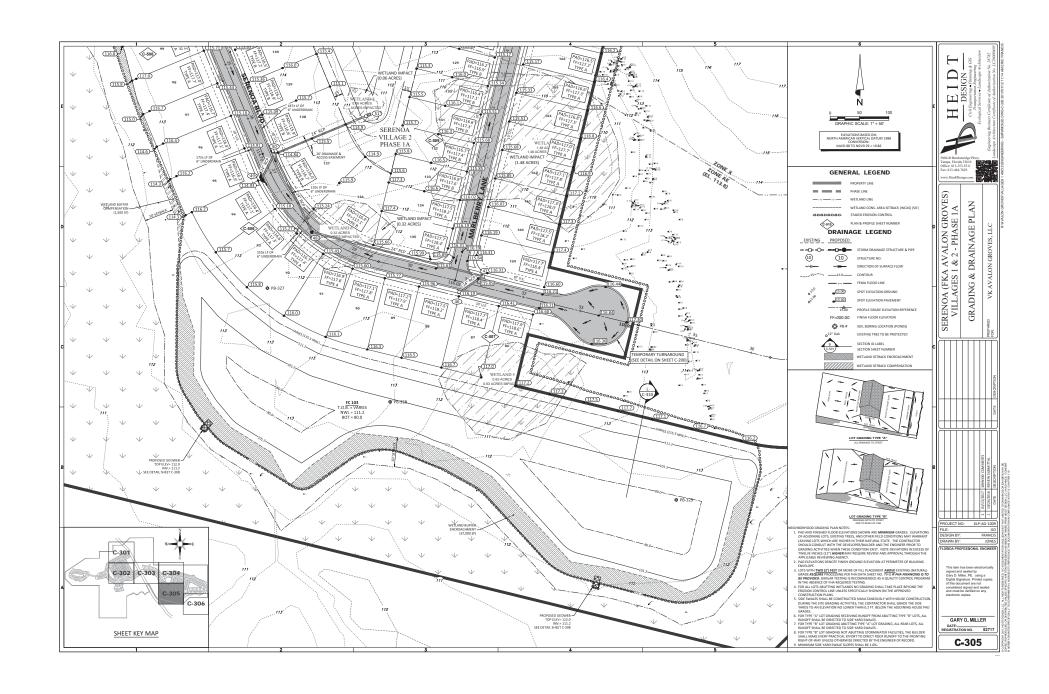


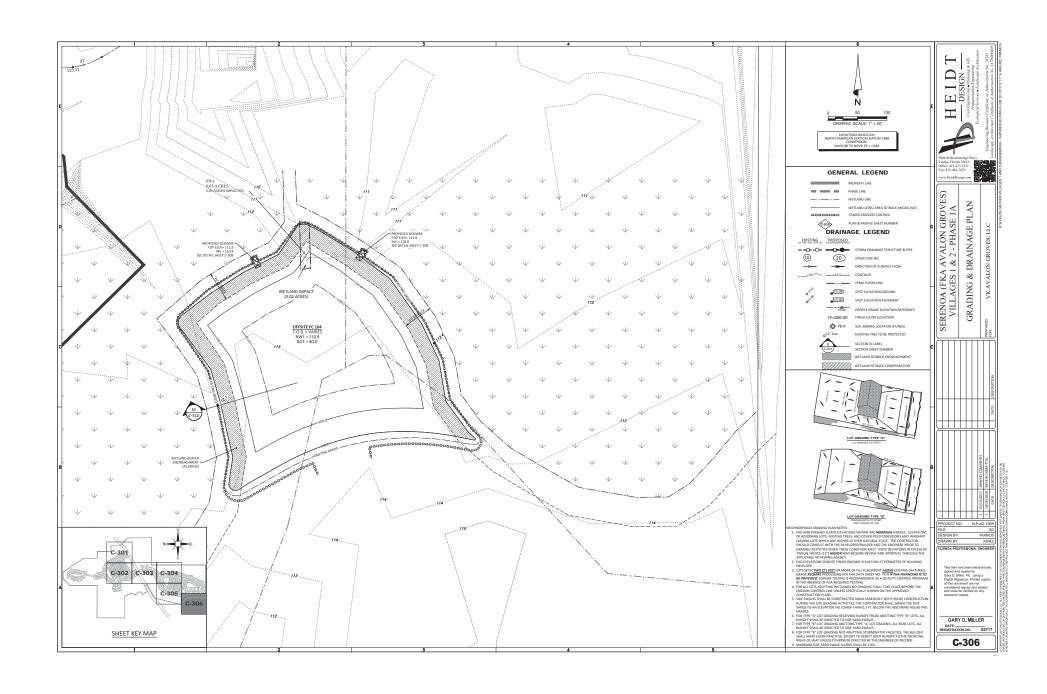




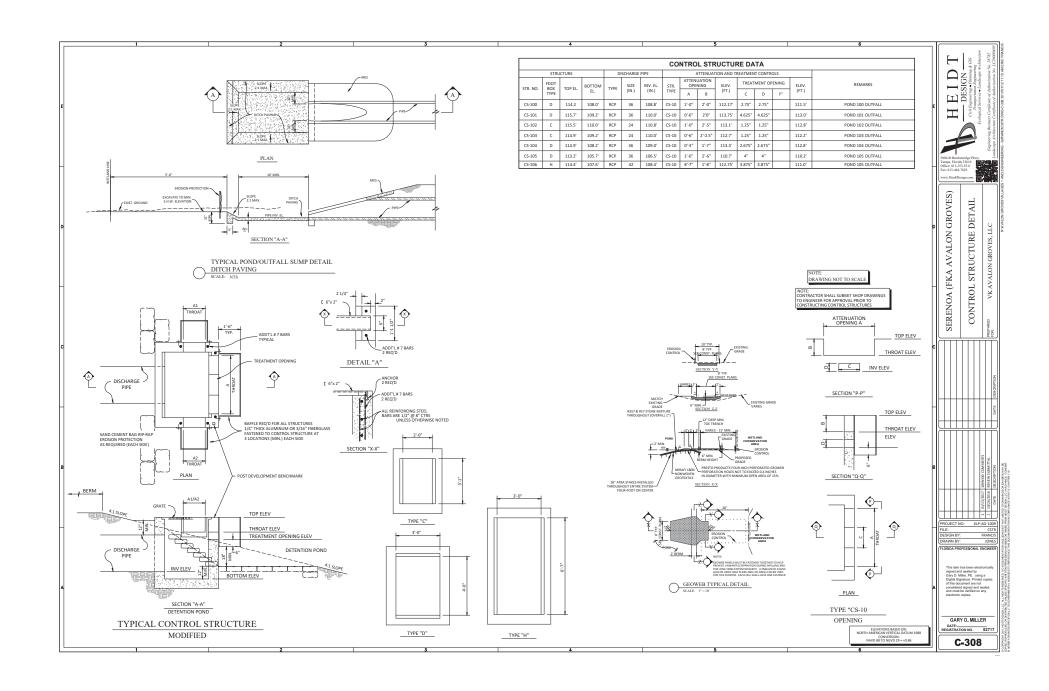


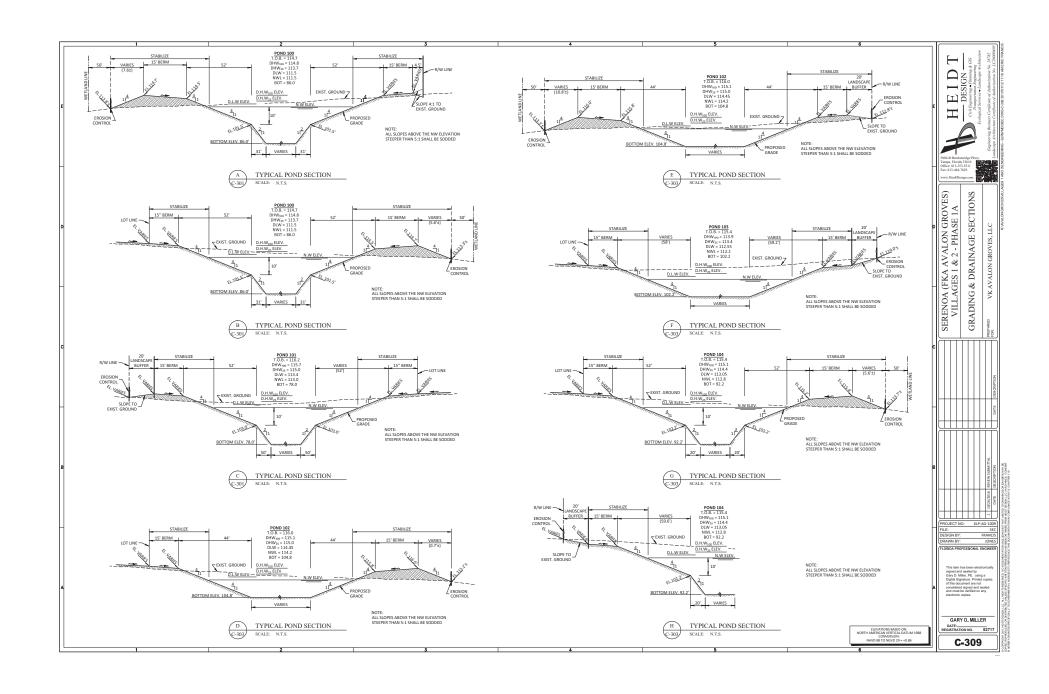


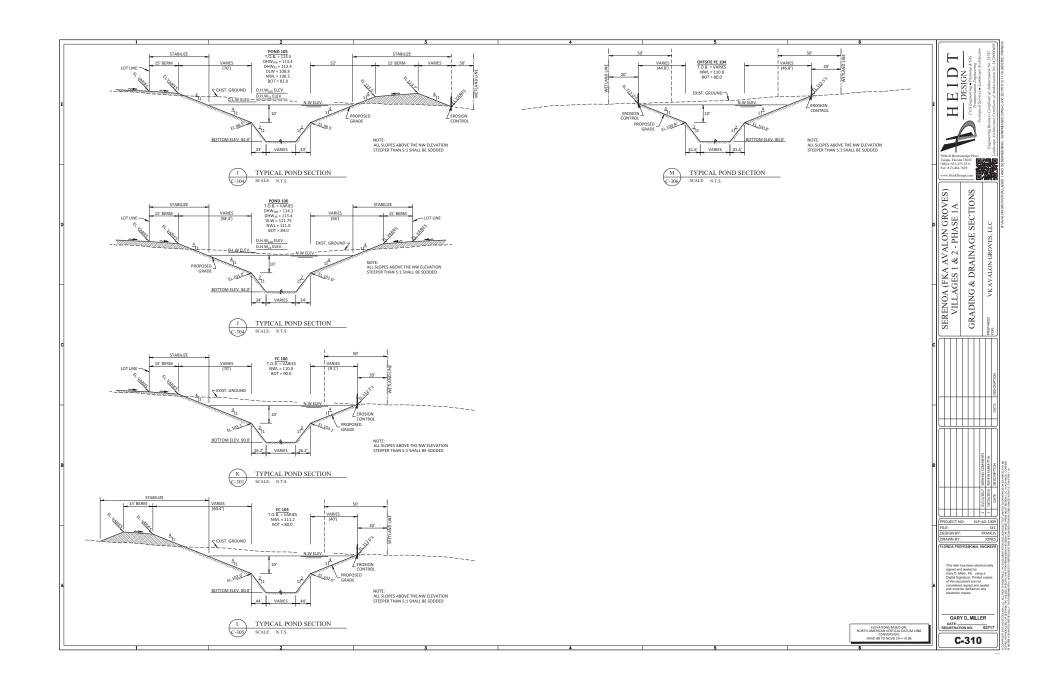


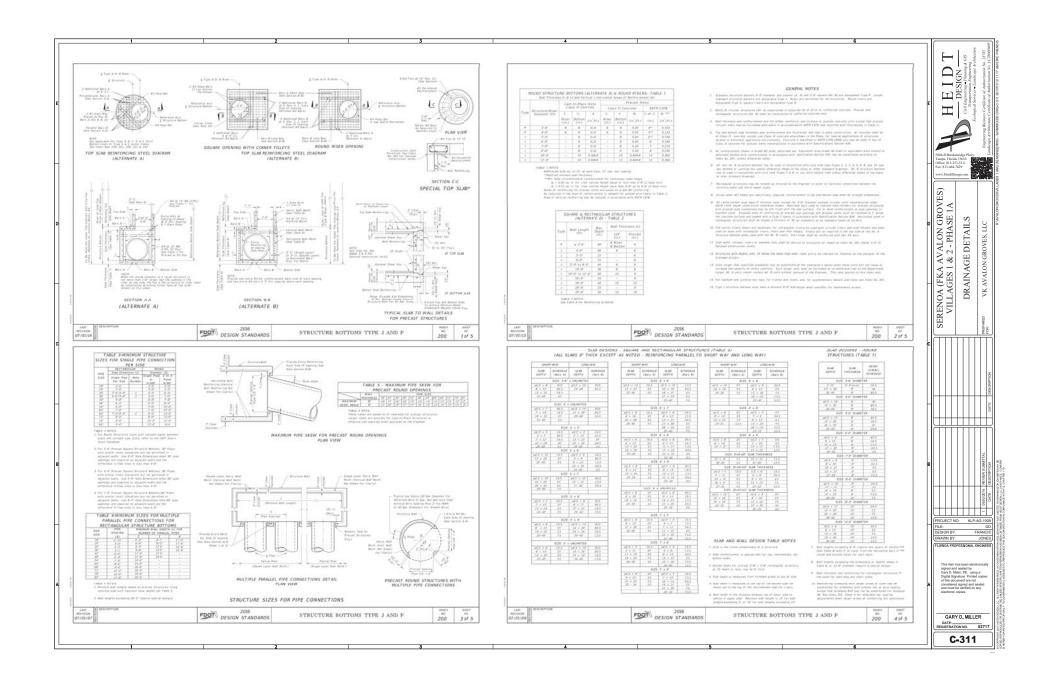


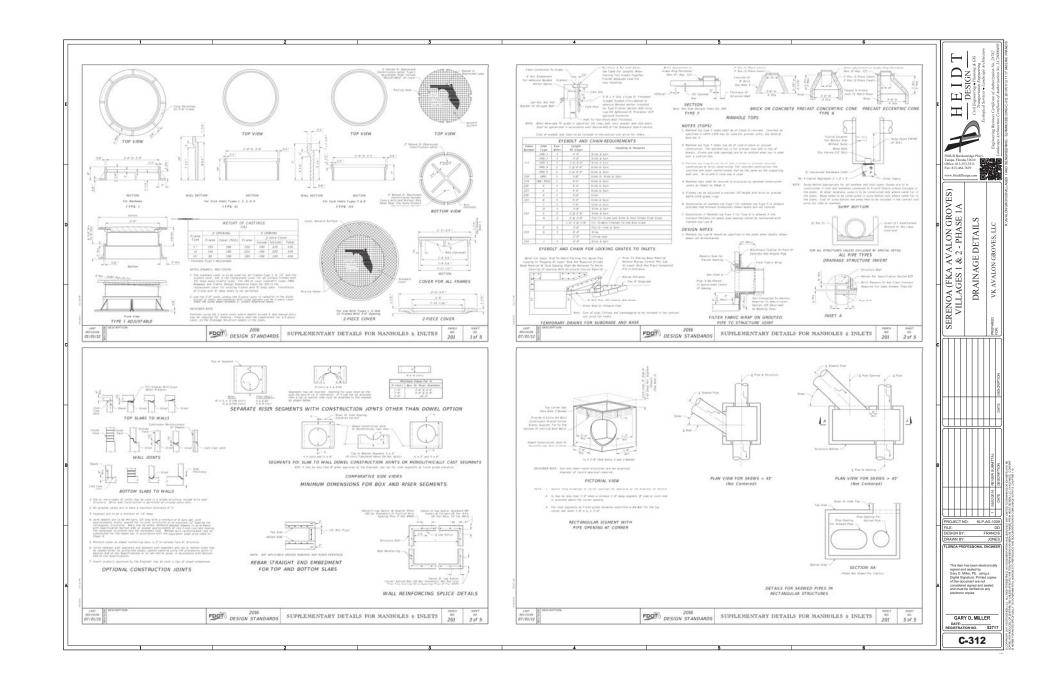
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-	12	CURB INLET TYPE 2	117.89		\dashv	16	18" RCP TYPE 1	115.95			17-A 18	19 19	18" RCP	200	0.000.			-	VALON GROVES) 2 - PHASE 1A
		CURB INLET				-	CURB INLET TYPE 1				19	20	24" RCP	94	0.10% 108.9		0.09]	2-
-	13	TYPE 2 CURB INLET	116.41			17	CURB INLET	116.05			20	21	24" RCP	196			0.21	-	7KA AVALON ES 1 & 2 - PH/
_	14	CURB INLET			_	18	TYPE P MANHOLE 4'-0" DIA. TYPE 3	115.05			22	23	36" RCP	166	0.000.0		0.09		ES ES
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1	.5-A	MES 30" RCP	112.16		5	10	TYPE 2 CURB INLET	114.60			28	27	18" RCP	48			0.07	-	
	16	TYPE 1 CURB INLET	118.27		5	i1	MES 24" RCP	77.			29	30	24" RCP	169			0.16		N SKE
	17	TYPE 1 CURB INLET	118.23		5	i5	TYPE 2 CURB INLET	113.88	PH.1A: CONSTRUCT TEMP. CONC. TOP - PH. 2A:	OMPLETE TOP & THROAT	31	32 33	18" RCP	43 142			0.06	-	SI
1	7-A	TYPE P MANHOLE 3'-6" DIA.	118.48		55	5-A	TYPE P MANHOLE 4'-0" DIA.	115.75			33	33-A	18" RCP	43	0.07% 105.0	3 105.00	0.03		c
	18	TYPE 1 CURB INLET	116.00		5	i6	TYPE 2 CURB INLET	114.58			34 35	35 36	42" RCP	37 142			0.04	-	
	19	TYPE 1 CURB INLET	116.14		5	57	TYPE 2 CURB INLET	114.58			36	36-A	42" RCP	45			0.02		
	20	TYPE 1 CURB INLET	115.32		5	i8	MES 36" RCP				37	38 39	18" RCP	39 185			0.06	-	
	21	TYPE 1 CURB INLET	114.41	J BOTTOM	5	i9	MES 36" RCP				39	40	18" RCP	225			0.34	1	
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-	26	TYPE 1	115.55		CS-	_	TVDE D				46	47	24" RCP	48		_	0.30		
-	-	CURB INLET MFS	115.55				CONTROL STRUCTURE	114.20			47	48	24" RCP	300 148			0.16	-	
-	27	MES 18" RCP TYPE 2			\dashv \vdash		TYPE D CONTROL STRUCTURE TYPE C	113.83			49	50	24" RCP	47			0.05		
-	28	CURB INLET	115.12		CS-		CONTROL STRUCTURE	115.50			50 55-A	51 55	24" RCP 30" RCP	168			0.17	-	
-	29	TYPE 1 CURB INLET	115.13		CS-	103	TYPE C CONTROL STRUCTURE	114.90			55-A	56	30" RCP	152			0.12	†	
	30	MES 24" RCP	***************************************		CS-	104	TYPE D CONTROL STRUCTURE	114.90			56 57	57 58	36" RCP	36 170			0.02		PROJECT NO: FILE:
	31	TYPE 1 CURB INLET	116.00		CS-	105	TYPE D CONTROL STRUCTURE	113.20			CS-100	59	36" RCP	52			0.10	-	DESIGN BY: DRAWN BY:
	32	TYPE 1 CURB INLET	116.07		CS-	106	TYPE H CONTROL STRUCTURE	114.40			CS-101	21	36" RCP	159			0.50		FLORIDA PROFE
	33	TYPE P MANHOLE 4'-0" DIA.	116.38								CS-102 CS-103	60	24" RCP	52 57	0.157.1		0.10	-	This item has
3	13-A	MES 18" RCP	7				NOTE:				CS-104	64	24" RCP	48	0.42% 109.0	0 108.80	0.20		signed and so Gary D. Miller Digital Signat of this docum considered as and must be
	34	TYPE 1 CURB INLET	115.73	J BOTTOM			NOTE:	D MANHO	LE STRUCTURE BOTTOMS ARE SPECIFIED	TYPE 'P' LINI ESS OTHERWISE	CS-105 CS-106	63	36" RCP	59 165			0.10	-	of this docum considered si and must be electronic cop
	35	TYPE 1 CURB INLET	115.78	J BOTTOM			NOTED. REFE	R TO FDO	DESIGN STANDARDS INDEX #200 & #201		CJ 100		42 NOF	103	0.00% 108.4	200.30	0.20	J	
	36	TYPE J MANHOLE 5'-0" DIA.	115.50		\dashv				INS (FES) ARE SPECIFIED FDOT INDEX #270										GARY
_		3-0 DIA.	ш				ALL MITERED NOTED.	END SECT	IONS (MES) ARE SPECIFIED FDOT INDEX#	72 UNLESS OTHERWISE									DATE:REGISTRATION
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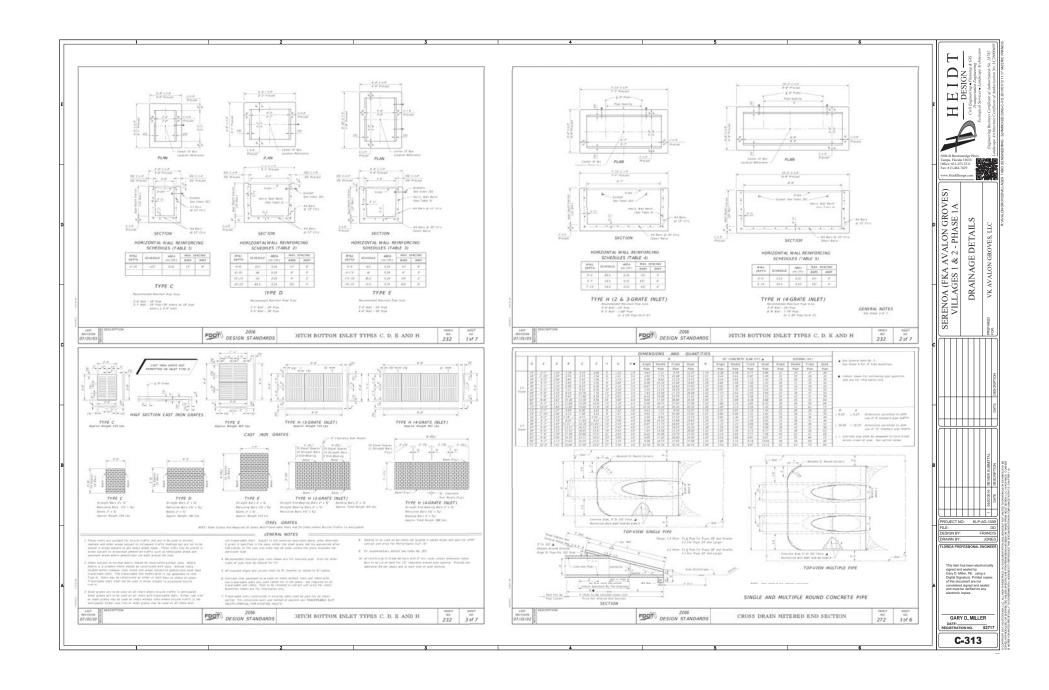


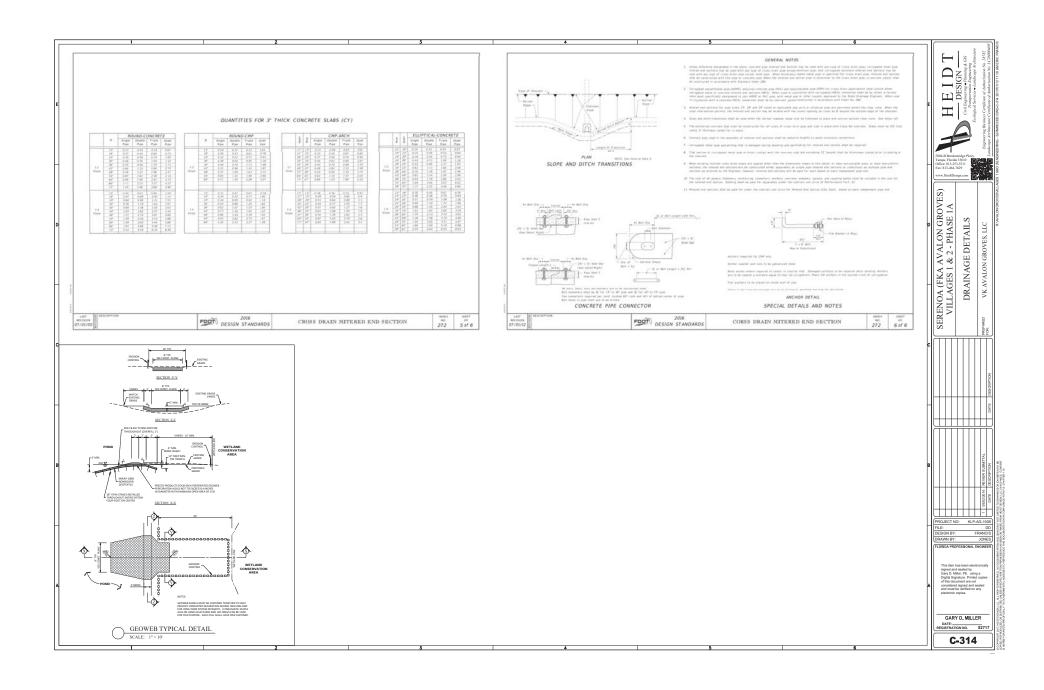


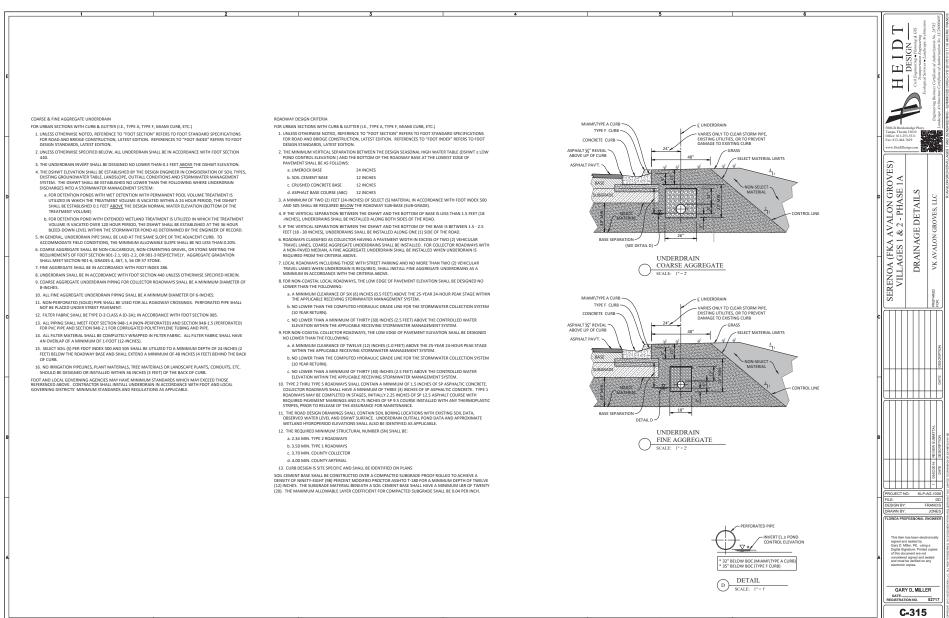


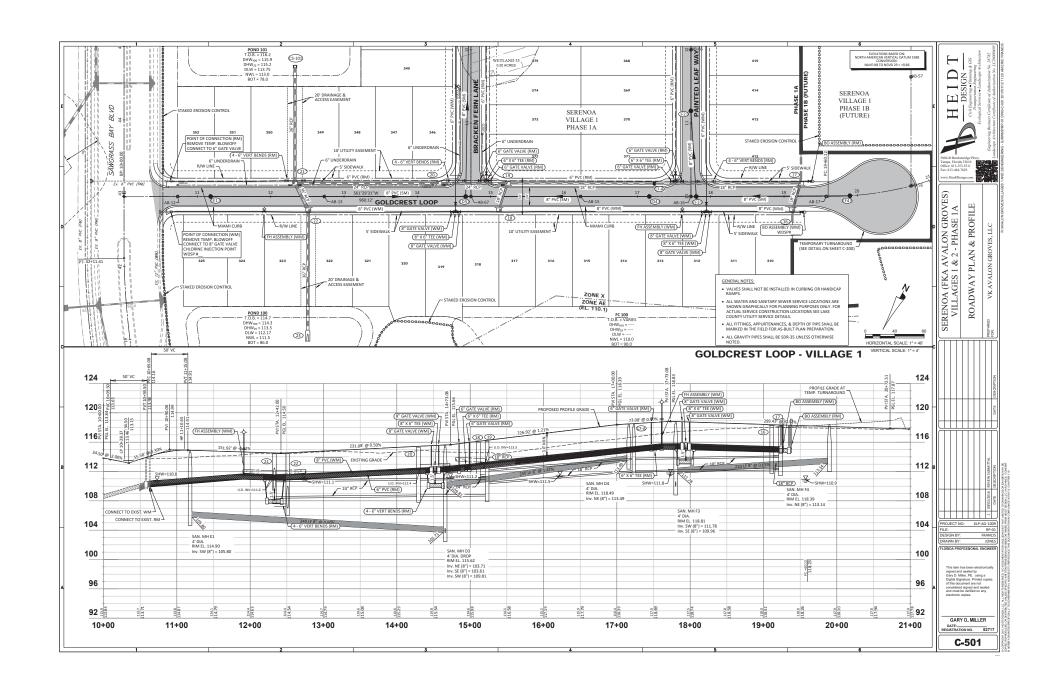


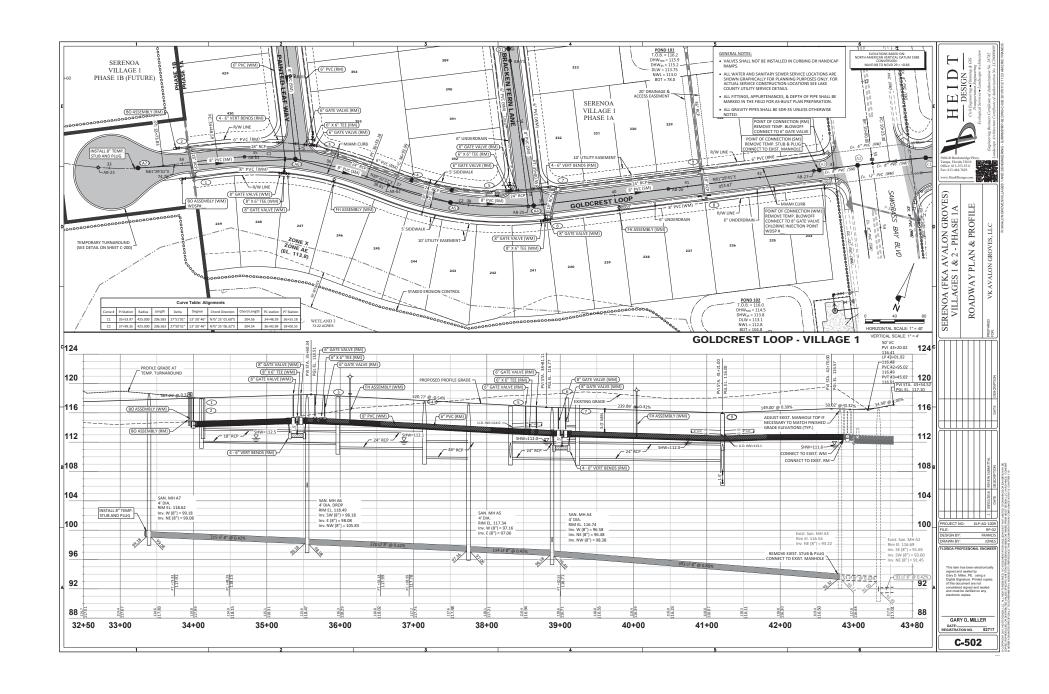


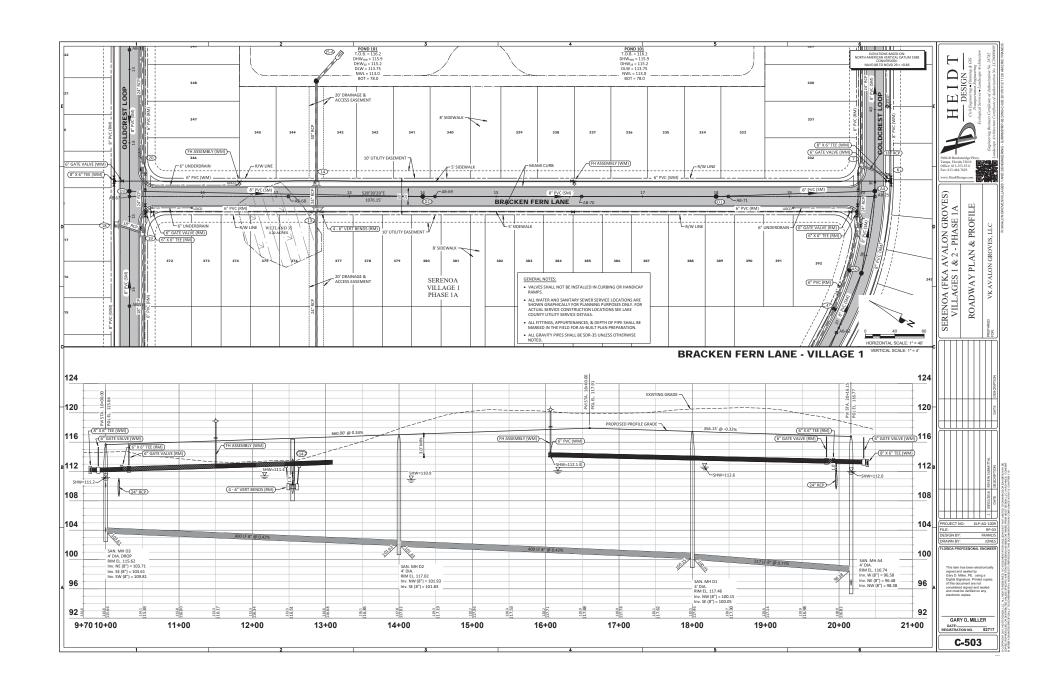


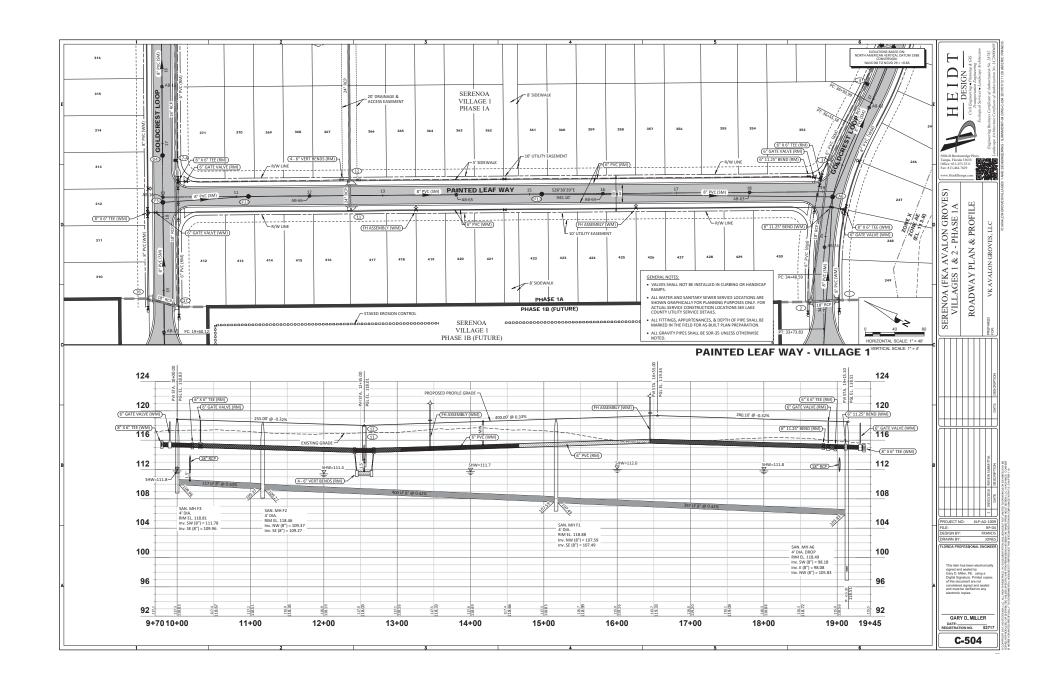


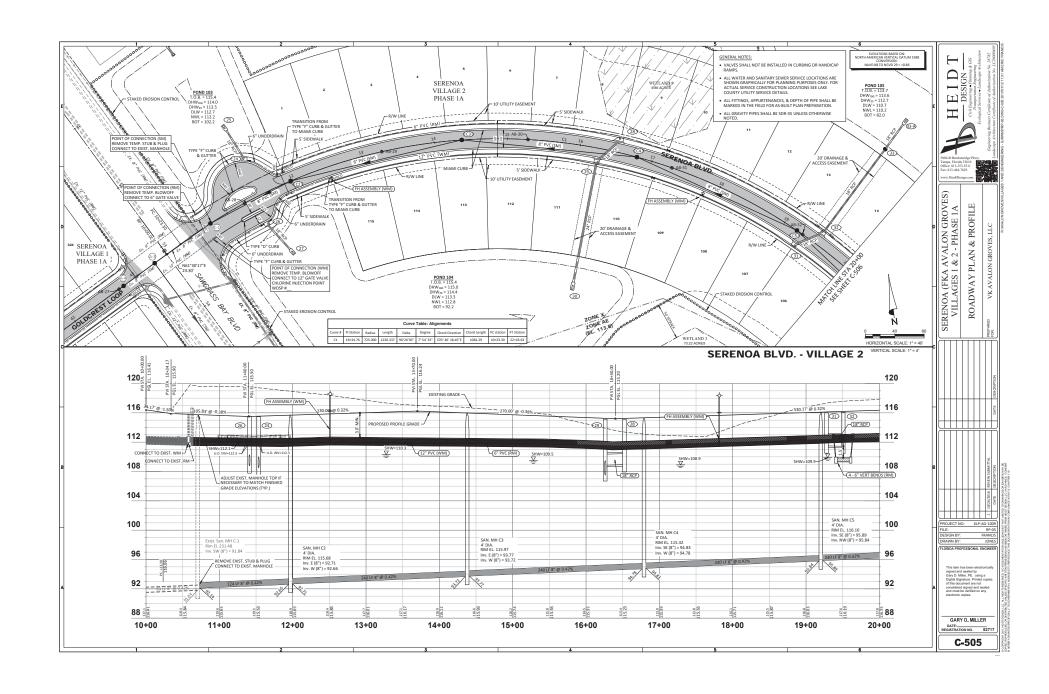


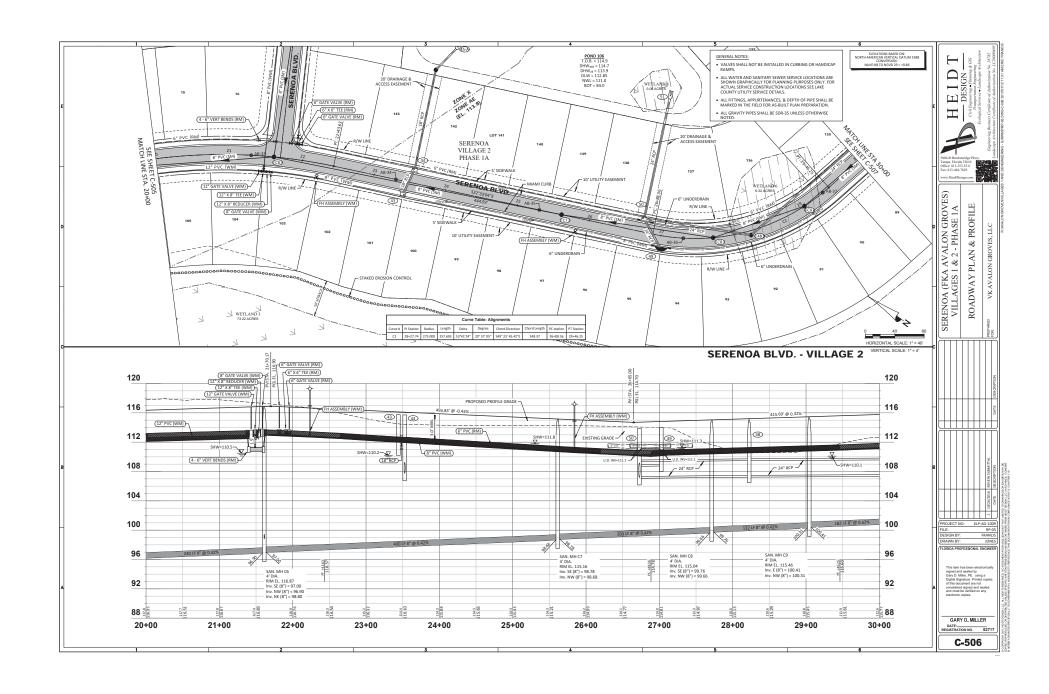


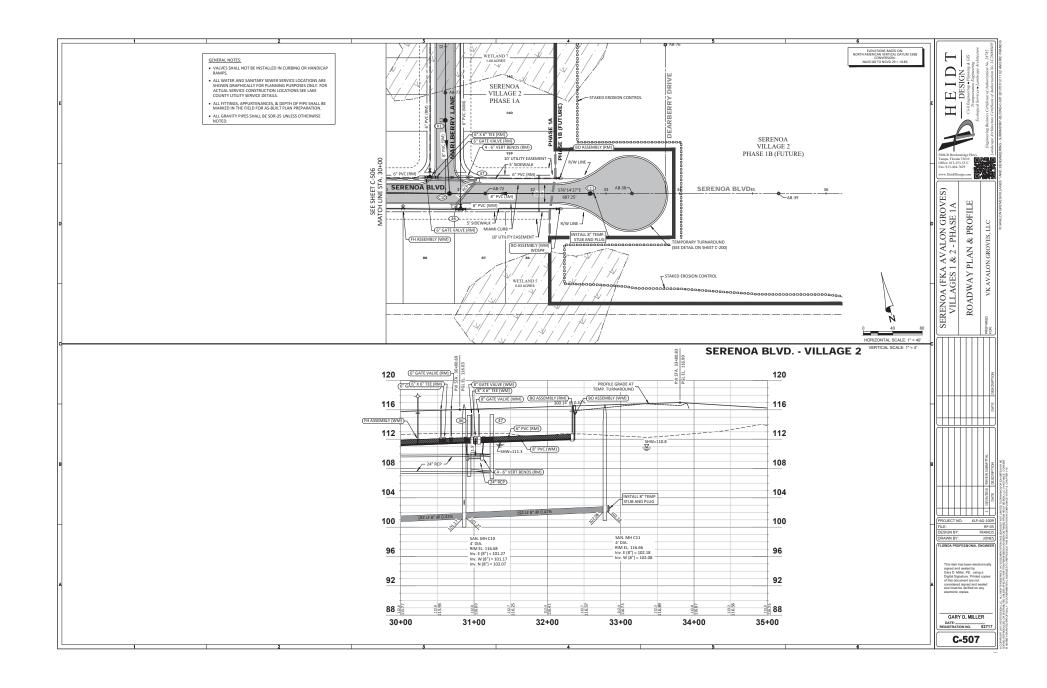


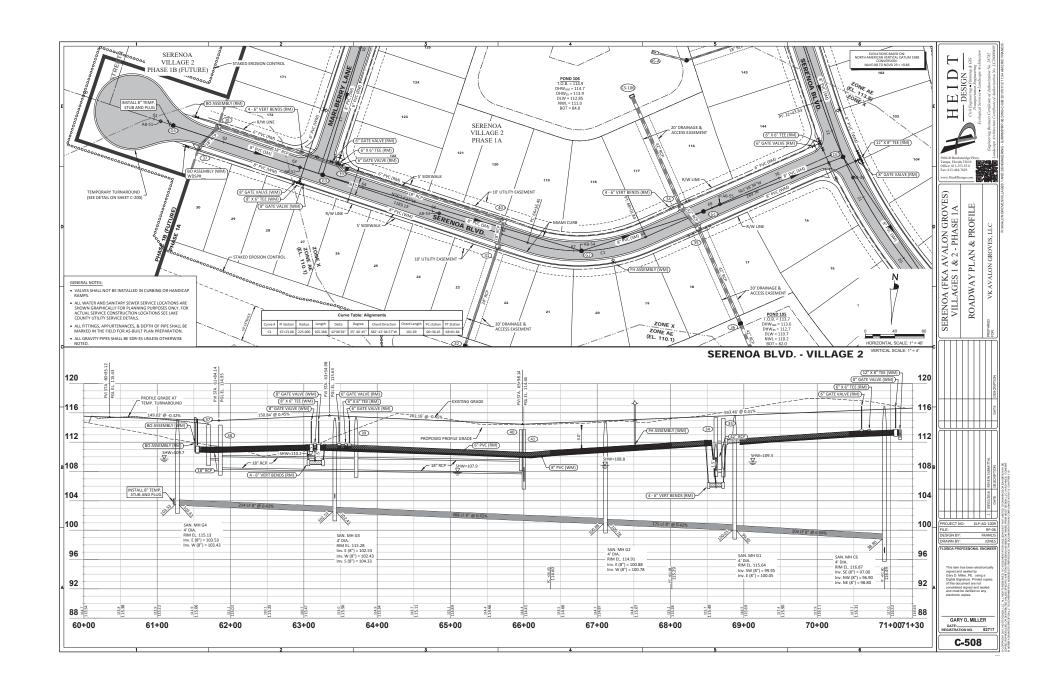


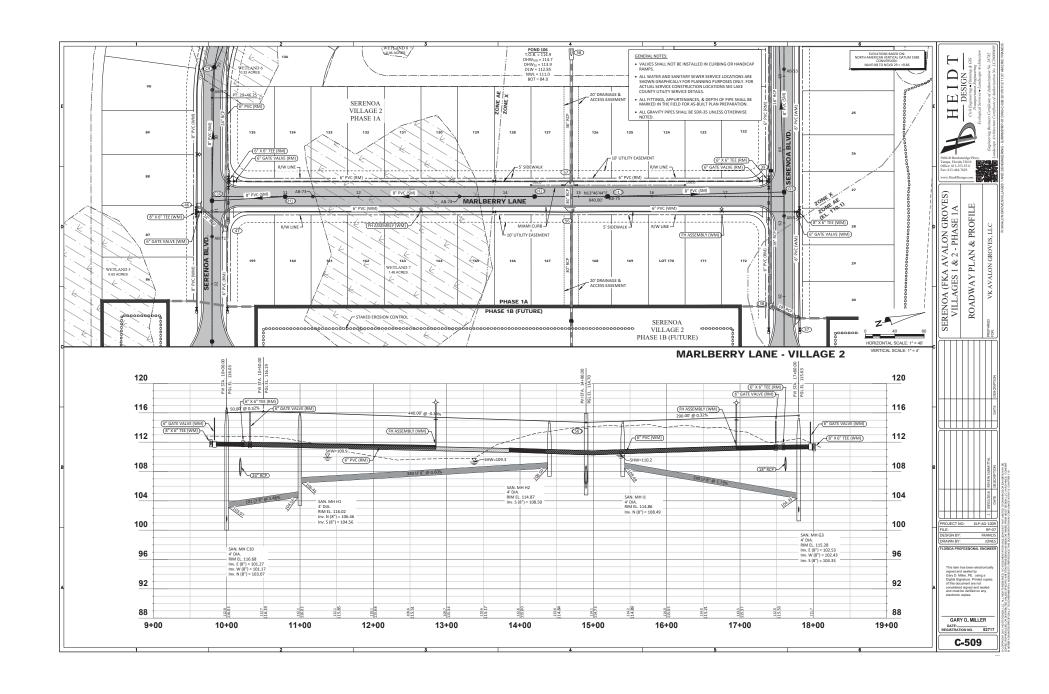


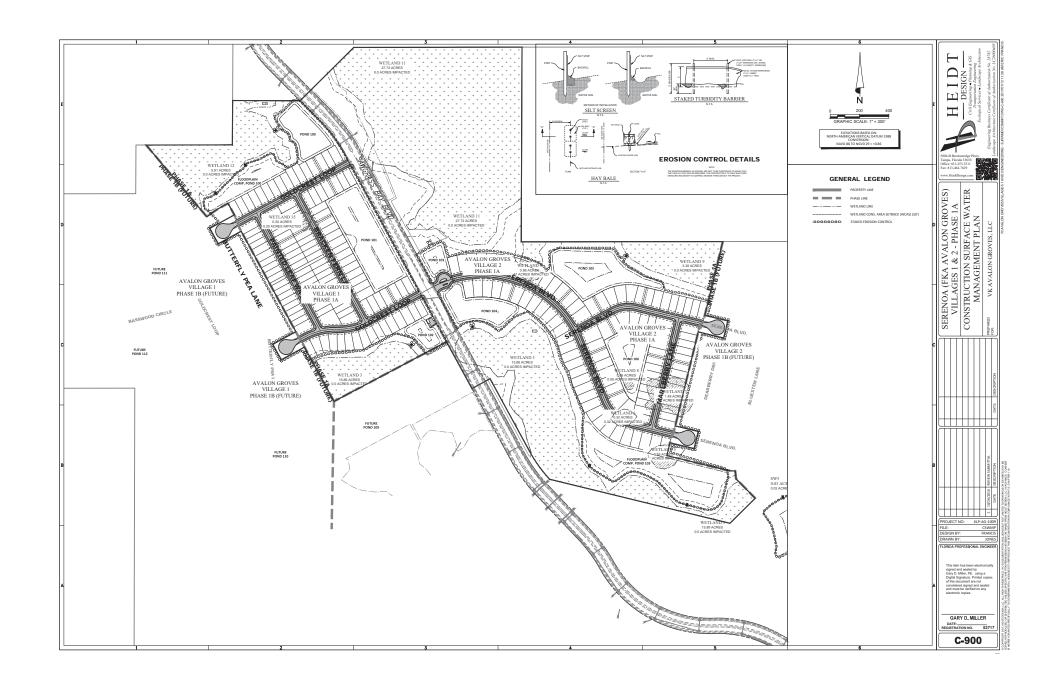












STORM WATER POLITITION PREVENTION PLAN

ontaind on these pains and within the following notes is a storm water pollution prevention plan whippy which has been developed by heidt design, llc in accordance with the florida department of nyvromaenta, protections (fodp) "national pollutant discharge elimination system" (nydes) generic

THE FOLLOWING ENTITIES ARE IDENTIFIED AS TEAM MEMBERS OF "SWPP": HEIDT DESIGN, LLC. THE DEVELOPER A THE FOLLOWING DITTIES ARE IDDITIED AS TRAM MINURES OF "SWEP": HEIT DISSON, LLC, THE DIVLOPER AS MANIERS AND THE DIVLOPER AS TH

- A. DEVELOP SWPP INCLUDING, BUT NOT LIMITED TO, RETENTION/DETENTION PONDS, CONTROL STRUCTURES, EROSION CONTROL METHODS AND LOCATIONS AND STRULING AND AND STRUCTURES. THIS DESIGN IS INCLUDED WITHIN THESE CONSTRUCTION PLANS AND THE FOLLOWING NOTES AND INSTRUCTIONS.
- BMIT AND OBTAIN THE NECESSARY DESIGN RELATED STORM WATER PERMITS FROM THE FLORIDA DEPARTMENT OF VIRONMENTAL PROTECTION, THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT AND OTHER APPLICABLE
- C. UPON NOTIFICATION BY THE DEVELOPER OF HIS INTENT TO COMMENCE CONSTRUCTION, SUBMIT A NOTICE OF INTENT TO THE FDEP ON BEHALF OF THE DEVELOPER AND COPY THE CONTRACTOR INCLUDING SWPP CERTIFICATION AND COPY OF THE FERMIN
- SUBMIT TO SWEWIND AND THE OPERATOR OF THE MUNICIPAL SEPARATE STORM WATER SYSTEM, IF APPLICABLE, A LETTER OF CONSTRUCTION COMMENCEMENT.
- E. COMPLETE AND SUBMIT A NOTICE OF TERMINATION AND CERTIFICATION FOR DEVELOPER. THE NOT'S SHALL BE
- 1 COMPLETION OF THE PROJECT AND FINAL STABILIZATION OF THE SITE OR
- WHEN REPORTED THE STEE ALL BOOK THAN STREAMSTON AS DEFINED THE AS SOMEN ALL SOSTIMINATION AND STREAMSTON AS DEFINED THE ASSOCIATION AS DEFINED AS DESCRIBED AS DESCRIBED.

CONTRACTOR:

- A. SIGN AND RETURN TO HEIDT A CONTRACTORS CERTIFICATION FORM CERTIFFING YOUR UNDERSTANDING OF AND WILLINGNESS TO COMPEY WITH THE STORM WATER POLLUTION PREVENTION PLAN ON LASTE THAN 48 FROURS PROCE TO COMMENCEMENT OF CONSTRUCTION. ALSO, LAGAL SUBCONTRACTOR AFFECTED BY THE SVMPH SIZE CERTIFIF TO THE CONTRACTOR THAT THEY UNDERSTAND AND SHALL COMPEY WITH THE NIPULES PERMIT AND SWIP. A RECORD OF THISS CERTIFICATION SHALL BE MANIFABRED BY THE CONTRACTOR ON SITE.
- B. DURING CONSTRUCTION, ASSURE COMPLIANCE WITH THE DESIGNED STORM WATER POLLUTION PREVENTION PLANS
 PREPARED BY HEIDT DESIGN, LIC AND THE NPDES GENERIC PERMIT FOR STORM WATER DISCHARGES FROM 1 ARGE AND SMALL CONSTRUCTION ACTIVITIES.
- MAINTAIN A COPY OF THE CONSTRUCTION PLANS, WHICH INCLUDE THE STORM WATER POLLUTION PREVENTION PLAN THE NOI, AND ALL INSPECTION REPORTS AND CERTIFICATIONS ON SITE.
- UNDERTAKE ALL REASONABLE BEST MANAGEMENT PRACTICES (BMP'S) TO ASSURE THAT SILTED OR OTHERWISS POLILITED STORM WATER IS NOT ALLOWED TO DISCHARGE FROM THE SITE DURING ALL PHASES OF CONSTRUCTION STABILIZATION MAPPS' THAT MAY BE ISED IN IT LIFE.

OF THES. AND PRESENVATION OF MATURE VIGITATIONS, STRUCTURAL BESCHON AND SEDMENT CONTROL BREYTHAN WAY BE USED ROLLED-STRAW BAD LIBES, SEE FERNES, SARIO RICKS, BRUYNE BASES, DRAWAGE SWALES, CHECK DAMS, SUBURRACE DRAW, FERS SOFT BROWN BY ALL STREAM FOR THE STREAM

- NOTIFY HEIDT DESIGN, LLC AND THE DEVELOPER IN WRITING OF ANY NON-STORM WATER POLLUTION SOURCES WINCH.
 ARE BEING STORED, OR OTHERWING USED DURNON THE CONSTRUCTION OF THE PRODICT, LEE, ERFILIZES, FUELS,
 PESTICIDES, OTHER CHEMICALS. THIS NOTIFICATION SHOULD BE ACCOMPANIED WITH THE CONTRACTOR'S DESIGN AND
 METHODS TO PREVENT POLLUTION SUM OFF FROM THESE SOURCES.

THE SPECIFIC AREAS TO BE INSPECTED AND MAINTAINED THAT INCLUDES ALL THE DISTURBED AREAS AND MATERIAL STORAGE AREAS OF THE SITE.

- 3. THE PROCEDURE TO FOLLOW IF ADDITIONAL WORK IS REQUIRED OR WHOM TO CALL.
- 4. INSPECTIONS AND MAINTENANCE FORMS

THE FOLLOWING SHALL BE INSPECTED A MINIMUM OF ONCE A WEEK OR WITHIN 24 HOURS AFTER 0.50 INCHES OF RAINFAIL:

- STRUCTURAL CONTROLS.
- CONSTRUCTION ENTRANCES AND EXITS.
- AREAS USED FOR STORAGE OF EXPOSED MATERIALS.

AN ROPICTION FORM SHALL BE COMPLETED FOR EACH INSPECTION. ANY PERMIT VIOLATIONS SHOULD BE NOTED A TOP AND THE RESEARCH INSPECTION. ANY PERMIT VIOLATIONS SHOULD BE NOTED A TOP AND THE RESEARCH INSPECTION. AND THE RESEARCH INSPECTION FOR ANY ADMINISTRATION FOR THE CAMBRIDGE ABOVE THE PROPERTY OF THE COMPLETE AND THE PROPERTY OF THE COMPLETE AND THE PROPERTY OF THE P

- HAS SUCCESSFULLY COMPLETED THE FLORIDA STORMWATER, EROSION AND SEDIMENT CONTROL INSPECTOR
- TRAINING PROGRAM.

 SUCCESSFULLY COMPLETED A SIMILAR TRAINING PROGRAM.

 HAS ENOUGH PRACTICAL ON THE JOB TRAINING TO BE QUALIFIED TO PERFORM THE INSPECTIONS.
- RETAIN INSPECTION REPORTS AND CERTIFICATIONS FOR AT LEAST THREE YEARS
- . SITE STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL BUT IN NO CASE. MORE THAN 7 DAYS, IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED.

RELEASES IN EXCESS OF REPORTABLE QUANTITIES

- THE DISCHARGE OF HAZARDOUS SUBSTANCES OR OIL IN THE STOMMWATER DISCHARGE(S) FROM A FACILITY OR ACTIVITY SHALL RE PREVIOUS OF MINIMAZED IN ACCORDINACE WITH THE APPLICALL STOMMWATER FOLUTION FOR THE PROTEINS GEORGIAN FOR THE PARTICULAR CONTINUES OF THE PAR
- THE OPERATOR IS REQUIRED TO NOTIFY THE STATE WARNING POINT (800-210-0519 OR 850-413-9911) AS SOON AS
 HE OR SHE HAS KNOWLEDGE OF THE DISCHARGE;
- a. THE OPERATOR SHALL SUBMIT WITHIN 14 CALENDAR DAYS OF KNOWLEDGE OF THE RELEASE A WRITTEN THE OPERATOR SHALL SUBMIT WITHIN 14 CALENDAR DAYS OF KNOWLEDGE OF THE RELEASE A WRITTEN DECORPITION OF THE RELEASE (INCLUDING THE TYPE AND ESTIMATE OF THE AMOUNT OF MATERIAR RELEASE). THE DATE THAT SUCH RELEASE OCCURRED, THE CIRCUMSTANCES LEADING TO THE RELEASE, AND REMEDIAL STEPS TO BE TAKEN, TO THE FOLIORIA DEPRATIKANT OF EVINDRINGHENTAL PROTECTION, PRIOSS STORMWATER SECTION, MAIL STATION 2500, 2600 BLAIR STONE ROAD, TALLAHASSEE, FLORIDA 32399-2400; AND
- b. THE STORMWATER POLLUTION PREVENTION PLAN REQUIRED UNDER PART V OF THIS PERMIT MUST BE MODIFIED WITHIN 14 CALIDINAR DAYS OF INSWILLDER OF THE RELEAST FOR PROVIDE A DISCREPTION OF THE RELEAST, THE COLOMISTANCES LEARNING TO THE RELEAST, AND THE DATE OF THE RELEAST, AND CONDITION, THE PLAN MUST BE REVIEWED TO DERITH' MEASURES TO PREVENT THE RECOCCURRENCE OS SUGF RELEASES AND TO RESPOND TO SUCH RELEASES, AND THE PLAN MUST BE MODIFIED WHERE APPROPRIATE.
- 3. THIS PERMIT DOES NOT AUTHORIZE THE DISCHARGE OF HAZARDOUS SUBSTANCES OR OIL RESULTING FROM AN ONLYTE SPILL
- NOTIFY HEIDT OF YOUR INTENT TO COMMENCE CONSTRUCTION. SIGN THE NOTICE OF INTENT FORM AS OPERATOR
 OF THE STORM WATER DISCHARGE FACILITY AND PERMITTEE AND RETURN TO HEIDT DESIGN, LLC.
- 2. SIGN A CERTIFICATION OF STORM WATER POLLUTION PREVENTION PLAN AND RETURN TO HEIDT DESIGN, LLC
- NOTIFY HEIDT WHEN IT IS TIME TO SUBMIT A NOTICE OF TERMINATION AS DEFINED UNDER PART E OF THE HEIDT DESIGN, LIC SECTION OF THE SWEP. SIGN AND RETURN TO HEIDT DESIGN, LIC FOR SUBMITTAL TO FDEP A NOTICE OF TERMINATION FORM AND CERTIFICATION

PRE-DEVELOPED SITE INFORMATION:

TOTAL SITE ACREAGE: 334.47 AC. ±

LAND USE: UNDEVELOPED - AGRICULTURAL

VEGETATION: RANGE LAND, BAHIA GRASS PASTURE
RECEIVING WATERS OR MUNICIPAL SEPARATE STORM WATER SYSTEM:

2 YEAR/24 HOUR RAINFALL DEPTH: X.X"

SOIL TYPES: PROJECT INFORMATION:

- PROJECT TYPE ROADWAY or SUBDIVISION
- 2. ANTICIPATED CONSTRUCTION SEQUENCE IS AS FOLLOWS:
- COMPLETE EROSION CONTROL INSTALLATION
- EARTHWORK ACTIVITIES STORM WATER SYSTEM CONSTRUCTION
- UTILITY CONSTRUCTION BASE AND PAVEMENT CONSTRUCTION
- FINAL STABILIZATION

THE BMP'S LISTED IN PART D OF THE CONTRACTOR DECTION OF THE SWPP SHALL BE CONSIDERED DURING ALL PHASES OF CONSTRUCTION.

- 3. ANTICIPATED START DATE:
- 4. ANTICIPATED COMPLETION DATE: _
- 5. TOTAL ACRES DISTURBED: 71.6±

- 7. POST-DEVELOPED "C" FACTOR:
- 9. THE POTENTIAL SOURCE OF POLLUTION FROM THIS PROJECT IS ON-SITE DEVELOPMENT AND CONSTRUCTION

GENERAL EROSION AND TURBIDITY CONTROL NOTES

- L. THE SOIL EROSION AND SEDIMENT CONTROL DEVISES SHALL BE INSTALLED PRIOR TO CONSTRUCTION, MAINTAINED THROUGHOUT CONSTRUCTION AND UNTIL THE STIE IS PERMANENTLY STABILIZED. ANY OFF STIE DISTURBANCE SHALL BE RESTORED TO THE PEOE RETETRE CONDITION.

 1 THE STIE SUBCONTRACTOR SHALL BE RESTORED TO THE AND EXPLAINED AND MAINTENANCE OF ALL RESIDON AND TRUBBINTY CONTROLS AND THE QUALITY AND QUARTITY OF OFSTIE OR WETLAND
- EBOOM AND LINEARLY THAT AND AND THE ADDRESS AND THE APPLICATE OR AND THE
- THE APPROPRIATE TURBUITY AND EROSION CONTRICE. METHODOLOGIES SELECTED BY THE SITE SUBCONTRACTOR FOR THIS PROJECT SHOULD BE MADE FOLLOWING ASSESSMENT OF THE PLANS AND PROJECT SITE SPECIFIC FACTORS AND AFTER CONSULTATIONS AS NEEDED WITH THE PROJECT CHRISTER AND APPROPRIATE AGENCIES. THIS SITE SUBCONTRACTOR WILL BE REPONSIBLE FOR OBITAINING ANY AND ALL NECESSARY PERMITS FOR SUCH ACTIVITY; SEVERAL FACTORS TO CONSIDER ARE LISTED BELOW:
- SUSTED BELOW: CLAY CONTENT IN EXCAVATED MATERIALS AND/OR PERMEABILITIES RATES DEPTH OF CUT IN PONDS, TRENCHES, OR UTILITY LINES
- DEPTH OF CUT IN PUNDS, TREATHES, UNDITIED THE AMBIENT GROUND WATER LEVELS AMBIENT GROUND WATER LEVELS ACTUAL RAINFALL AMOUNTS AND TIME OF YEAR RELATIVE TO NORMAL RAINY SEASON PROMINITY TO WETLANDS, WATER BODIES OR OFFSITE PROPERTIES "CLASS' DESIGNATION OF RECEIVING WATER BODIES (I.E., OUTSTANDING FLORIDA WATERS, CLASS' DESIGNATION OF RECEIVING WATER BODIES (I.E., OUTSTANDING FLORIDA WATERS, CLASS' DESIGNATION OF RECEIVING WATER BODIES (I.E., OUTSTANDING FLORIDA WATERS, CLASS' DESIGNATION OF RECEIVING WATER BODIES (I.E., OUTSTANDING FLORIDA WATERS, CLASS' DESIGNATION OF RECEIVING WATER BODIES (I.E., OUTSTANDING FLORIDA WATERS, CLASS' DESIGNATION OF RECEIVING WATER BODIES (I.E., OUTSTANDING FLORIDA WATERS, CLASS' DESIGNATION OF RECEIVING WATER BODIES (I.E., OUTSTANDING FLORIDA WATERS, CLASS').
- CLASS DESIGNATION OF RECEIVING WATER BODIES (I.E., OUTSTANDING FLORIDA WATERS, SHELLISH HARVESTING AREAS, ETC.)
 DENSITY, TYPE, AND PROXIMITY OF UPLAND VEGETATION TO BE RETAINED DURING CONSTRUCTION (FCR USE A POSSIBLE EITRATION AREAS)
 FILL HEIGHT RELATIVE TO NATURAL GRADE AND LENGTH AND STEEPNESS OF THE PROPOSED

- SLOPES
 EXISTING TOPOGRAPHY AND DIRECTIONS OF SURFACE FLOW
 TYPE OF EQUIPMENT USED
 PROJECT TYPE
 DURATION OF CONSTRUCTION ACTIVITIES
- SEPARATION DISTANCE OF ONSITE PONDS AMBIENT QUALITY OF SURFACE AND GROUNDWATER TEMPORARY STOCKPILE LOCATIONS AND HEIGHTS
- TEMPURARY STOLKERIE LOCALITIONS AND HEIGHTS
 AT THE ONSET OF CONSTRUCTION, THE SITE SUBCONTRACTOR, AS THE PARTY RESPONSIBLE FOR IMPLEMENTATION OF THE EROSION AND SEDIMENT CONTROL PLAN, SHALL ASSESS THE ABOVE DESCRIBED CONDITIONS AND FACTORS WITH RESPECT TO RELATIVE COST EFFECTIVENESS AND SELECT
- THE APPROPRIATE METHODS OF PROTECTION. A FAIRLY EXTENSIVE LIST OF TECHNIQUES ARE PRESENTED BELOW BUT IT MUST BE STRESSED THAT MAY OR ALL OF THE FOLLOWING MAY BE NECESSARY TO AMAINTAIN WATER QUALITY AND QUANTITY STANDARDS. THE CONSTRUCTION SEQUENCING SHOULD BE THOUGHT OUT IN ADVANCE OF INITIATION TO PROVIDE ADEQUATE

- MODISHING SHOULD BE TROUGHT OUT IN ADVANCE OF INTERTON TO PROVIDE ADEQUATE PROTECTION OF WHAT GOLDEN TO ADVANCE ADEQUATE PROTECTION OF WHAT GOLDEN THE ADVANCE ADDARD ADDARD OF STORE PROTECTION OF ADVANCE ADDARD ADDARD OF STORE ADDARD SUBCOUNTRAL FOR STRAIL NO INFT I HE ENGINEER IMMEDIATELY BEFORE PROLEEDING WITH EXCAVATION. IF THE ENGINEER OF RECORD HAS DETERMINED THAT SUCH SOILS ARE NON-CONFINING AND MUST BE EXCAVATED TO MEET PERMIT AND DESIGN CONDITIONS, EXCAVATION MAY PROCEED AFTER OBTAINING WRITTEN AUTHORIZATION FROM THE APPR
- EGWANTON MAY PROCEED ATTER OFFICIAINING WITHTRE AUTHORIZATION RIGHT HE APPOPRIATE THE STEEL STREET, AND THE APPOPRIATE THE THE A
- THE LIFE OF THE CONSTRUCTION PHASE.

 THE THY OF ENGINE CONTROLLED PHASE.

 THE THY OF ENGINE CONTROL MERCEN SHARE BY CONTROL THE MATURE OF THE SHARE RIERS, DITCHES, AND OTHER EROSION/TURBIDITY CONTROL MEASURES IF CONDITIONS

- STANDARDS.

 THE PERMITTE SHALL SCHEDULE HIS OPERATIONS SUCH THAT THE AREA OF UNPROTECTED ERODIBLE EARTH EXPOSED AT ANY ONE THAN EN HOT LARGER THAN THE MINIMUM AREA ANCESSARY FOR FERCICIET CONSTRUCTION OPERATION, AND HE DURATION OF ENDESO, DUCKOMENTED STANDARD S
- ON THE PROJECT PERMIT.

 UN WATER DERIVED FROM VARIOUS DEWATERING METHODS SHOULD BE PASSED THROUGH
 SUFFICIENTLY WIDE ARRAGO F RESTING UPLAND VICE TATON TO HITER OUT EXCESS TURBOUT. IT
 HIS IS NOT SUFFICIENT, THE WAITE SHALL BET RETAINED BY PROVIDUST CONSTRUCTED FERMANISM
 THIS IS NOT ARRADOL THE WAITE SHALL BET RETAINED BY REVOLUSIT CONSTRUCTED TO REMAINED
 CLARITY IS SUTTABLE TO ALLOW FOR ITS DECHARGE. PLUGGING THE OUTPLASS FROM COMPATE TO
 STORMINATE PROSE MAY BE REDED TO AVIOD DESCHARGE. HOWEVER, SULF HIZIATION IS
 SHOULD BE MONITORED CLOSELY TO PRECLUEE BERN FAILURE IF WAITER LYILLS RED TOO BRIGH
 WAITER CAN BE TRANSPORTION ADOLD IN SET BET THE USE OF THEMEN SHALL FOR BRIGHT PROVIDED.

 WHITER CAN BE TRANSPORTION ADOLD IN SET BET THE USE OF THEMEN SHALL FOR BRIGHT PROVIDED.
- AND PIPES.

 16. SHEET FLOW OF NEWLY FILLED OR SCRAPED AREAS MAY BE CONTROLLED OR CONTAINED BY THE USE
 OF BRUSH BARRIERS. DIVERSION SWALES. INTERCEPTOR DITCHES OR LOW BERMS. FLOW SHOULD BE
- 16. SHEET FLOW OF SHEWLY FILLED OR SCRAPED AREAS MAY BE CONTROLLED OR CONTRACED BY THE USE DIRECTED FOWNS DAKES WHERE SECONDAYS OF THE USE DIRECTED FOWNS DAKES WHERE SECONDAYS OF THE USE DIRECTED FOWNS DAKES WHERE SECONDAYS OF THE USE DIRECTED FOWNS DAKES AND SHOULD SOUD SOLD SECONDAY SOUNDED ON THE OWN SHOW AND MALLON BLANKEYS OF SHOULD SOUD SOLD SERVICE AND MALLON BLANKEYS OF SHOULD SOUD SOLD SERVICE AND MALLON BLANKEYS OF SHOULD SOLD SOLD SERVICE AND MALLON BLANKEYS OF SHOULD SOLD SOLD SHOULD SOLD SHOW AND SHOULD SOLD SHOULD SHOULD SHOULD SOLD SHOULD SHOUL

- SEDIMENT PARTICLES. HAY BALES, SILT SCREENS, OR GRAVEL BEDS CAN BE ADDED AROUND THE PIPE OR SWALE DISCHARGE POINTS TO HELP CLARIFY DISCHARGES. SPREADER SWALES MAY HELP DISSIPATE CLOUDY WATER
- PUINTS TO REEP CLARRY TOUSCHARGES, SPREADER SWALES MAY RELP DISSIPATE ECUDITY WATER PRIOR TO CONTACT WITH WETLANDS.

 24. ALL FUEL STORAGE AREAS OR OTHER HAZARDOUS STORAGE AREAS SHALL CONFORM TO ACCEPTED STATE OR FEDERAL CRITERIA FOR SUCH CONTAINMENT AREAS.

 25. VEHICLE OR EQUIPMENT WASHDOWN AREAS WILL BE SUFFICIENTLY REMOVED FROM WETLANDS OR OUTSITE AS IN THE PROPERTY OF THE P
- OFFSITE AREAS.
 FUGITIVE DUST CONTROLS (PRIMARILY BY USING WATER SPRAY TRUCKS) SHALL BE EMPLOYED AS NEEDED TO CONTROL WINDBORN EMISSIONS.
- NEEDED TO CONTROL WINDBORN EMISSIONS.
 27. IF THE ABOVE CONTROLS READMIN INSFECTIVE IN PRECLIDING RELEASE OF TURBID WATER,
 ESPECIALLY DURING POIND OR UTILITY UNE DEWATERING, "THEIR THE CONTRACTOR MAY BE
 COMPELLED TO USE A VERTICAL DEWATERING SYSTEM SUCH AS WELL POINTS OR SOCK DRAINS TO
 WITHDRAW GROUNDWATER WHICH MAY AUREADY BE CLEAR ENDUGH TO ALLOW FOR DIRECT
- DISCHARGE TO WETLANDS.

 ONGOING INSPECTIONS AND PERIODIC MAINTENANCE BY THE SITE SUBCONTRACTOR SHALL OCCUR.
- 29. THE CONTRACTOR WILL PERFORM DAILY INSPECTIONS OF ALL ON-SITE WETLANDS WITHIN THE CONSTRUCTION AREA TO ENSURE THAT WATER LEVELS WITHIN THOSE WETLANDS ARE NOT EXCESSIVELY IMPOUNDED PRIOR TO THE TIME WHEN THE PERMITTED CONTROL STRUCTURE OR OUTFALL IS BUILT. WATER LEVELS SIGNIFICANTLY ABOVE NORMAL SHOULD BE CORRECTED AT A FREQUENCY THAT PREVENTS A CHANGE IN THE VEGETATIVE CHARACTER OR HEALTH OF ANY
- WETLANDS:

 PRIOR TO COMMENCEMENT OF CLEARING & GRUBBING OR ANY SOLID STURBANCE, CONTRACTOR
 SHALL CORPORATE WITH HERD TO SCION TO SCIEDULE A PRE-CONSTRUCTOR SOLI EROSON AND
 SHALL CORPORATE WITH HERD TO SCION TO SCIEDULE A PRE-CONSTRUCTOR SOLI EROSON AND
 THE SCIULIFICATION SCIEDULE OF THE SCIEDULE OF TH

12. WHERE PUMPS ARE TO BE USED TO REMOVE TURBID WATERS FROM CONSTRUCTION AREAS, THE WATER SHALL BE TREATED PRIOR TO DISCHARGE TO THE WETLANDS. TREATMENT METHODS INCLUDE, FOR EXAMPLE, TURBID WATER BEING PUMPED INTO GRASSED SWALES OR APPROPRIATE UPLAND VEGETATED AREAS (OTHER THAN UPLAND PRESERVATION AREAS AND WETLAND BUFFERS) SEDIMENT BASINS, OR CONFINED BY AN APPROPRIATE ENCLOSURE SUCH AS TURBIDITY BY LOW BERMS, AND KEPT CONFINED UNTIL TURBIDITY LEVELS MEET STATE WATER QUALITY

ON

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DE WATER NOTES ALON GROVE - PHASE 1A URFAC! PLAN !

SERENOA (FKA AVA VILLAGES 1 & 2 · CONSTRUCTION SUI MANAGEMENT P

GARY D. MILLER C-901

SIDEWALK NOTE:

 SIDEWALKS SHALL BE CONSTRUCTED OF NATURAL OR COLORED CONCRETE AT LEAST
 3,000 PSI IN STRENGTH, FIBER REINFORCED ON A COMPACTED AND NON-YIELDING SUBGRADE WITH MINIMUM OF FOUR INCHES IN THICKNESS. WHEN A SIDEWALK IS CROSSED BY A DRIVEWAY, THE MINIMUM THICKNESS SHALL BE 6 INCHES.

POND/LAKE EXCAVATION NOTE:

NO EXCAVATION SHALL EXTEND RELOW THE PERMITTED DESIGN DEPTHS/FLEVATIONS SHOWN ON THE DRAWINGS. LINLESS ADDITIONAL TESTING SUPPORTS OTHERWISE AND THE

OWNER'S INSTRUCTIONS FOR MAINTENANCE AND INSPECTION OF STORMWATER FILTER FACILITIES

IT IS THE OWNER'S RESPONSIBILITY TO INSPECT AND MAINTAIN THE WATER DRAINAGE SYSTEMS ON A ROUTINE BASIS TO ENSURE THAT THEY ARE TO THE WOMEN A REPORT AND THE TO STORE AND MORNING THE WASHE DOWNINGS STREETING WAS ADDITING BEING THE MORNING THE TO THE TO THE TOWNING T

SAND FILTER SURFACES ARE SOMETIMES SCARIFIED OR BREAK UP SILT DEPOSITS AND RESTORE POROSITY. THIS SHOULD BE ACCOMPLISHED AFTER AL SEDIMENT HAS BEEN REMOVED FROM THE SURFACE. AFTER REMOVING LARGE DEBRIS (CUPS, PAPER, WOOD, ETC.) IT IS RECOMMENDED THAT RAKING THE TOP 3" WILL PROPERLY SCARIFY THE SURFACE OR IT MAY BE REQUIRED TO REPLACE THE SAND. ANOTHER TECHNIQUE REQUIRES REMOVING THE SAND FOR

THE FILTER SYSTEM IS DESIGNED TO HAVE A WET-DRY CYCLE TO INHIBIT ALGAE OR BACTERIAL GROWTH. CLEANOUT FREQUENCY OF FILTER BEDS WILL DEPEND ON WHETHER THEY ARE VEGETATED OR NON-VEGETATED AND WILL BE A FUNCTION OF THEIR STORAGE CAPACITY, INFETRATION CHARACTERISTICS VOLUME OF INFLOW, AND SEMBINITY LOAD. FILTER BEDS SHOULD BE INSPCTED LOCASELY AT LEAST ONCE A YEAR

PERFORATED UNDERDRAIN PIPES ARE LOCATED 2' BELOW THE SAND AND CLEANOUTS ARE LOCATED AT THE END OF THE SYSTEM. IN THE EVEN OF SEDIMENT BUILD-UP IN THE UNDERDRAIN PIPE, CLEANING CAN BE ACCOMPLISHED THROUGHT THE CLEANOUT WITH SEVERAL OF THE TECHNIQUES OUTLINED BELOW. METHODS AND EQUIPMENT FOR CLEANOUT OF SYSTEMS VARIOUS TYPES OF EQUIPMENT ARE AVAILABLE COMMERCIALLY FOR MAINTENANCE OF DRAINAGE SYSTEMS. THE MOST FREQUENTLY USED EQUIPMENT AND TECHNIQUES ARE LISTED BELOW.

THIS DEVICE IS NORMALTY MED TO REMOVE SEDMENT FROM SUMES AND PIES THE COURMENT FOR THE SYSTEM IS CENTRALLY MOUNTED ON A VEHICLE IT REQUIRES ADD 2-300 CALLON (10.75 – 1.364H (10.00%) TAY AND AN AVENUAL PRIME THAT HE AS IT CESSAMI) DAMMER IS REMINED. WITH A SERRATED METAL END FOR BEACHING UP CASE SEDMENT. A TWO-MAN CREW CAN CLEAN A CATCH ABON IN 5 TO 10 MINUTES. THIS SYSTEM CAN REMOVE STONES BROCK, LEVEN, SUTTER AND SEDMENT DEPOSITS, NORMAL WORKING DEPTHS 6 TO 20 (10 TO 46M).

WATER IF SHAPE



