

CONTRACT PLANS

ITB NO. 220752

LIFT STATIONS #9 & #22 IMPROVEMENTS AND FISHER PARK DRA EXPANSION

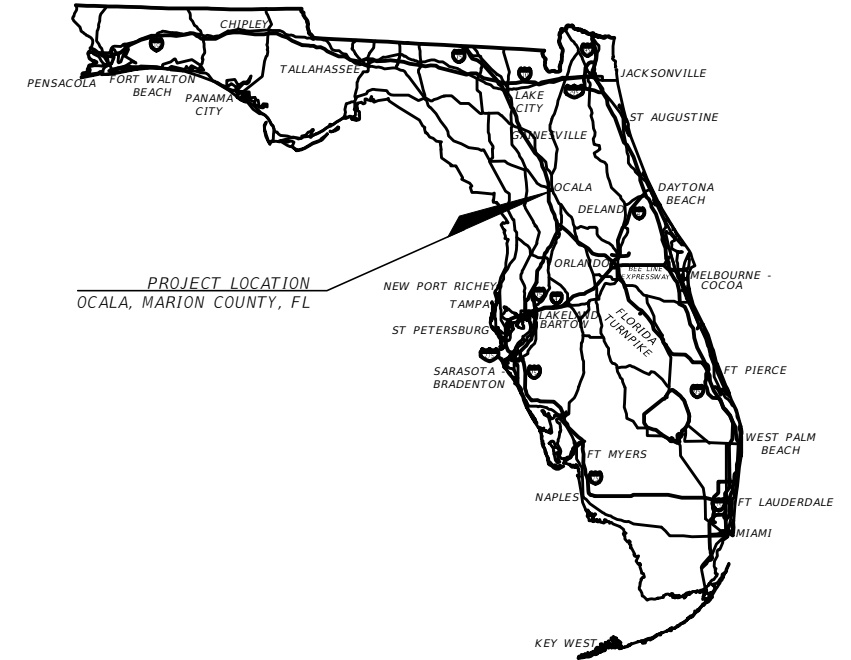
100% PLANS

FOR CONSTRUCTION
DATE: 3/15/2023

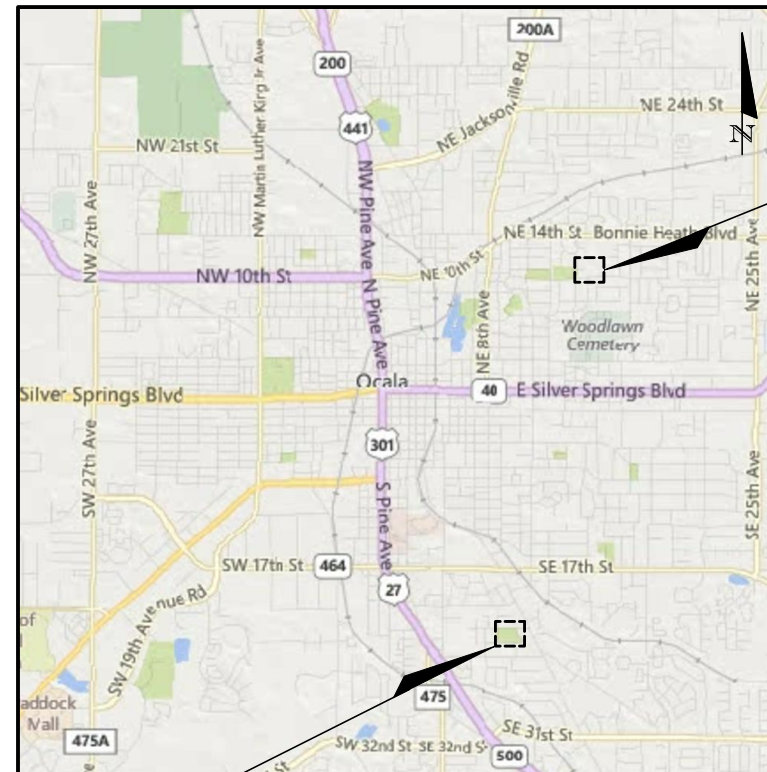


CITY ENGINEER'S OFFICE

1805 NE 30th AVE, BLDG #600
OCALA, FLORIDA 34470



PROJECT LOCATION
OCALA, MARION COUNTY, FL



LS #22 LOCATION
(1241 NE 10th STREET)

FISHER PARK & LS #9 LOCATION
(FISHER PARK - 900 SE 22nd STREET)

UTILITY COMPANY	PHONE NUMBER	EMERGENCY
OCALA PUBLIC WORKS (TRAFFIC)	(352) 351-6733	
OCALA ELECTRIC UTILITES	(352) 351-6650	(352) 351-6666 (LEAVE MESSAGE)
OCALA WATER RESOURCES	(352) 351-6772	(352) 351-6775
COX COMMUNICATIONS	(888) 269-9693	
CENTURYLINK	(352) 368-8817	
TECO GAS	(352) 622-0112	(352) 622-0111

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SIGNATURE SHEET
3-4	GENERAL NOTES
5-6	PLAN SHEETS
7-8	CONDUIT SCHEMATICS
9-10	DRA EXPANSION PLANS
11	SPECIAL STORMWATER DETAIL

U.S. Department of Transportation, Manual on Uniform Traffic Control Devices (2009 Version with Revisions)

Florida Department of Transportation, Standard Plans for Road and Bridge Construction (FY 2020-2021 Version)

Florida Department of Transportation, Standard Specifications for Road and Bridge Construction (July 2020 Version)

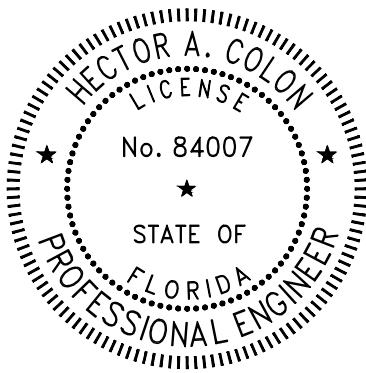
Florida Department of Transportation, Manual of Uniform Minimum Standards for Design, Construction, & Maintenance of Streets & Highways "Florida Green Book" (2016 Version, Effective June 2017)

City of Ocala, Land Development Code (FY 2020-2021 Version)

City of Ocala, Standard Specifications For Construction of Streets, Stormwater, Traffic, Water & Sewer Infrastructure (January 2022 Version)



REVISIONS				HECTOR A. COLON, PE P.E. LICENSE NUMBER 84007 CITY OF OCALA, FLORIDA 1805 NE 30TH AVENUE OCALA, FLORIDA 34470	PREPARED BY 	PROJECT NO's. 18206 & 19326 PROJECT NAME: LIFT STATIONS #9 & #22 IMPROVEMENTS KEY SHEET	SHEET NO. 1
DATE	DESCRIPTION	DATE	DESCRIPTION				



CITY OF OCALA
 CITY ENGINEER'S OFFICE
 1805 NE 30TH AVE., BLDG. 300
 OCALA, FL 34470

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

PLAN INDEX

- KEY SHEET
- SIGNATURE SHEET
- GENERAL NOTES
- ENVIRONMENTAL NOTES
- LEGEND & ABBREVIATIONS
- PLAN SHEETS

CITY OF OCALA STANDARD DETAILS REQUIRED:

1. TYPICAL TREE PROTECTION (DETAIL #G-24)
2. TYPICAL SILT FENCE (DETAIL #G-25)
3. KARST SINK CHIMNEY REPAIR (DETAIL #SW-6)



CITY OF OCALA
 CITY ENGINEER'S OFFICE
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 OCALA, FL 34470

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

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- SIGNATURE SHEET
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REVISIONS				HECTOR A. COLON, PE P.E. LICENSE NUMBER 84007 CITY OF OCALA, FLORIDA 1805 NE 30TH AVENUE OCALA, FLORIDA 34470		PROJECT NO's. 18206 & 19326	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			PROJECT NAME: LIFT STATIONS #9 & #22 IMPROVEMENTS	
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GENERAL NOTES:

1. ALL CONSTRUCTIONS SHALL BE IN ACCORDANCE TO THE LATEST EDITION OF THE CITY OF OCALA'S "STANDARD SPECIFICATIONS FOR CONSTRUCTION OF STREETS, STORMWATER, TRAFFIC, WATER & SEWER INFRASTRUCTURE".
2. ALL UNSUITABLE MATERIALS ENCOUNTERED SHALL BE DISPOSED OF AND REPLACED WITH APPROVED MATERIALS.
3. NEW WATER MAIN TO BE INSTALLED AT 36" DEEP (MIN.) TO TOP OF PIPE EXCEPT WHERE VERTICAL ADJUSTMENTS ARE REQUIRED TO AVOID CONFLICTS. SEE ALSO NOTES 14 AND 15 BELOW.
4. ALL UTILITIES SHOWN ON THESE PLANS HAVE BEEN PLOTTED FROM THE BEST AVAILABLE RECORDS. HOWEVER, IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THEIR LOCATIONS AND CONDITIONS FROM THE UTILITY AGENCIES PRIOR TO CONSTRUCTION.
5. EXCAVATED MATERIALS SHALL BE LOADED ONTO DUMP TRUCKS DIRECTLY BEHIND THE EQUIPMENT AND HAULED OFF TO THE DESIGNATED SITE. TRAFFIC CONTROL MEASURES SHALL BE PLACED ACCORDINGLY TO ACCOMMODATE THIS PROCESS.
6. INSTALL INLET PROTECTION DEVICES AT ALL INLETS TO MINIMIZE DEBRIS ENTERING THE STORM DRAIN SYSTEM. (AS APPROVED BY FDEP)
7. THE TRAFFIC CONTROL PLAN FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD); THE FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS (STANDARD INDEXES) INDEXES #102-600 THROUGH #102-660, LATEST EDITION; AND ANY REQUIREMENTS OF THE CITY OF OCALA THAT MEET OR EXCEED ANY OF THE ABOVE.
8. UNLESS OTHERWISE SPECIFIED ON THE PLANS, THE CONTRACTOR SHALL MAINTAIN TWO LANES OF TRAFFIC IN EACH DIRECTION FOR THE DURATION OF THE PROJECT. THE CONTRACTOR MAY, UPON APPROVAL OF THE ENGINEER IN CHARGE, RESTRICT TRAFFIC TO ONE-WAY OPERATION FOR SHORT PERIODS OF TIME PROVIDED THAT ADEQUATE MEANS OF TRAFFIC CONTROL ARE EFFECTED AND TRAFFIC IS NOT UNREASONABLY DELAYED.
9. CONTRACTOR TO REPAIR OR REPLACE ALL PAVEMENT MARKINGS, TRAFFIC LOOPS OR HOMERUNS THAT ARE DAMAGED DURING CONSTRUCTION.
10. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN ACCEPTABLE ACCESS TO ALL BUSINESSES AND RESIDENCES ALONG THE PROJECT ROUTE WHENEVER CONSTRUCTION INTERFERES WITH THE EXISTING MEANS OF ACCESS. FLAGMEN SHALL BE USED WHEN NO ALTERNATE ACCESS IS POSSIBLE.
11. THE REQUIRED TRAFFIC CONTROL DEVICES, WARNING DEVICES, AND BARRIERS SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION WHICH MAY CREATE ANY HAZARDOUS CONDITION. THE CONTRACTOR SHALL IMMEDIATELY REMOVE OR COVER ANY DEVICE WHICH DOES NOT APPLY TO THE EXISTING CONDITIONS.
12. THE CONTRACTOR SHALL HAVE A STATE OF FLORIDA CERTIFIED MAINTENANCE OF TRAFFIC SUPERVISOR WITH THE RESPONSIBILITY OF MAINTAINING THE POSITIONING AND CONDITION OF ALL TRAFFIC CONTROL DEVICES, WARNING DEVICES AND BARRIERS THROUGHOUT THE DURATION OF THE PROJECT. THE ENGINEER IN CHARGE SHALL BE KEPT ADVISED AS TO THE IDENTIFICATION AND MEANS OF CONTACTING THIS EMPLOYEE ON A 24-HOUR BASIS.
13. ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL CONDITION.
14. THE CONTRACTOR SHALL BE NOISE SENSITIVE FOR NIGHT OPERATIONS.
15. CONTRACTOR TO PERFORM HYDROSTATIC TESTING OF WATER MAIN AND WATER SERVICES.
16. NEW OR RELOCATED WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST 6 FEET AND PREFERABLY 10 FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING GRAVITY SEWER, SEWER FORCE MAIN, OR RECLAIMED WATER MAINS. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY-TYPE SANITARY SEWERS SHALL BE REDUCED TO 3 FEET WHERE BOTTOM OF THE WATER MAIN IS LAID AT LEAST 6 INCHES ABOVE THE TOP OF THE SEWER. NEW OR RELOCATED UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR NEW GRAVITY SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 6 INCHES AND PREFERABLY 12 INCHES ABOVE OR AT LEAST 12 INCHES BELOW THE OUTSIDE OF THE OTHER PIPE LINE. IT IS PREFERABLE TO INSTALL THE WATER MAIN ABOVE OTHER PIPE LINES.
17. AT THE UTILITY CROSSINGS, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE CROSSING PIPELINES, SO THAT WATER LINE JOINTS ARE AS FAR AS POSSIBLE FROM THE CROSSING PIPE. PIPE CROSSINGS SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST 3 FEET FROM JOINTS IN VACUUM-TYPE RECLAIMED WATER SEWER MAINS AND AT LEAST 6 FEET FROM ALL JOINTS IN GRAVITY SEWERS AND SEWER FORCE MAINS.
18. WATER METER SERVICES MAY BE REMOVED/ADDED BASED ON ACTUAL FIELD CONDITIONS.
19. ACTUAL LOCATIONS AND SIZES OF WATER MAINS AND METERS MAY VARY FROM WHAT IS SHOWN. CONTRACTOR IS RESPONSIBLE FOR FIELD VISIT PRIOR TO BID.
20. TAPS MAY BE DELETED IF NEW MAIN CAN BE CONNECTED DIRECTLY TO OLD MAIN VIA PIPE-SLEEVES AND/OR EXISTING VALVES.
21. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE EXISTING SEWER LATERALS. CITY MAY PROVIDE AS-BUILTS IF REQUESTED.
22. WHERE WATER METERS ARE TO BE RELOCATED, THE COST OF MATERIAL AND LABOR TO RELOCATE THE METER BOX TO THE NEW LOCATION SHALL BE CONSIDERED PART OF THE RELOCATION COST AND SHALL INCLUDE METER RELOCATIONS WITHIN 20' OF THE ORIGINAL LOCATION. FOR RELOCATIONS MORE THAN 20' FROM THE OLD LOCATION, THE COST OF LABOR AND MATERIAL SHALL BE INCLUDED IN THE COST PER FOOT FOR "EXTENDING CUSTOMER SERVICE TO RELOCATED METER".
23. WHERE NON-STANDARD METER BOXES ARE FOUND, THE CONTRACTOR SHALL REPLACE THE EXISTING METER BOX WITH A STANDARD GULF BOX. UNIT PRICE SHALL INCLUDE ALL MATERIALS NECESSARY TO REMOVE AND REPLACE THE METER BOX.
24. WHERE WATER MAINS AND APPURTENANCES ARE TO BE ABANDONED, THE CONTRACTOR SHALL ABANDON THE SYSTEM AS FOLLOWS:
25. WATER VALVES - REMOVE ALL WATER VALVES ON ABANDONED WATER MAINS WHERE WATER MAINS CAN BE SHUT DOWN OR REDUCED TO A WORKABLE FLOW. FOR WATER MAINS THAT CANNOT BE SHUT DOWN FOR VALVE REMOVAL, THEN THE CONTRACTOR SHALL CLOSE THE VALVE, REMOVE VALVE BOX, CUT AND CAP PIPES ON DOWNSTREAM SIDE OF THE VALVE.
26. FIRE HYDRANTS - REMOVE ALL FIRE HYDRANT ASSEMBLIES (FROM VALVE TO HYDRANT) ON EXISTING MAINS WHICH ARE TO BE ABANDONED AND CAP TEE.
27. WATER SERVICES - CLOSE SERVICE VALVE AT WATER MAIN, THEN CUT AND CAP SERVICE PIPE AT SERVICE VALVE. REMOVE ALL METER BOXES, AND CAP ALL PIPES LEFT IN PLACE.
28. WATER MAINS - REMOVE PIPE WHERE REQUIRED FOR CONSTRUCTION. WHERE PIPES ARE LEFT IN PLACE, CAP ALL EXPOSED PIPES. WHERE PIPES LEFT IN PLACE ARE CUT, BROKEN, OR DAMAGED, THE PIPE IS TO BE CUT AND PIPE ENDS TO BE CAPPED ACCORDINGLY. IF REQUIRED FOR PIPES IN FDOT RIGHT-OF-WAY, THEN GROUT ALL ABANDONED PIPES AND FILL WITH FLOWABLE FILL.
29. WHERE PAVEMENT HAS TO BE REMOVED, REPLACE PAVEMENT IN ACCORDANCE WITH DETAIL 478-6.1B TO PROPERLY ABANDON THE WATER MAIN. PAVEMENT IN FDOT RIGHT-OF-WAY SHALL BE REPLACED TO FDOT STANDARDS IN ACCORDANCE WITH PERMIT REQUIREMENTS. RE-STRIPE PAVEMENT AS REQUIRED.
30. WHERE 2" WATER MAINS ARE CALLED FOR ON THE PLANS, INSTALL STANDARD 2" PVC WATER MAINS IN ALL CITY RIGHT OF WAYS AND 2" HDPE IN ALL FDOT RIGHT OF WAYS. FOR ALL DRIVEWAY AND STREET CROSSINGS, CITY AND FDOT, DIRECTIONAL BORE 2" HDPE. AT THE DISCRETION OF THE ENGINEER, DIRECTIONAL BORES MAY BE EXTENDED BETWEEN REQUIRED BORES TO AVOID MULTIPLE TRANSITIONS BETWEEN PIPE MATERIALS IN A SHORT AREA OF PIPE.

ENVIRONMENTAL NOTES:


1. THE CITY OF OCALA OPERATES UNDER A FDEP NPDES "GENERAL PERMIT" THAT REQUIRES THE CITY AND, IN TURN, ITS CONTRACTORS TO FOLLOW CERTAIN ENVIRONMENTAL PRACTICES AND PROCEDURES TO PREVENT THE POLLUTION OF THE CITY'S GROUNDWATER AND STORMWATER SYSTEM.
2. ALL WATER COLLECTED AND PUMPED DURING TRENCH DEWATERING ACTIVITIES SHALL BE DISPOSED OF IN UPLAND AREAS INTO DISCHARGE LOCATIONS THAT SHALL BE A MINIMUM OF 75 FEET FROM THE NEAREST WATER BODY OR WETLAND AREA TO ALLOW FOR MAXIMUM OVERLAND FILTRATION OF SOIL PARTICLES.
3. STAKED SILT SCREEN, TURBIDITY BARRIERS OR OTHER PERIMETER CONTROL METHODS APPROVED BY FDEP SHALL BE UTILIZED AS SILT BARRIERS AND PLACED IN LOCATIONS SHOWN ON THE PLANS AND AT OTHER LOCATIONS AS REQUIRED TO KEEP SEDIMENT FROM REACHING PRIVATE PROPERTY. THESE BARRIERS SHALL BE INSTALLED BEFORE COMMENCING WITH ANY CONSTRUCTION WITHIN OR ADJACENT TO PRIVATE PROPERTY. THE CONTRACTOR SHALL MONITOR AND MAINTAIN ALL SILT BARRIERS AND FENCING INCLUDING DAILY INSPECTIONS TO CHECK THEIR INTEGRITY. ANY LOOSE OR DAMAGED SILT BARRIERS AND FENCING SHALL BE IMMEDIATELY REPAIRED OR REPLACED AS NECESSARY. ONCE CONSTRUCTION IS COMPLETED AND FINISHED GRADING AND STABILIZATION HAS BEEN ACHIEVED, SILT BARRIERS AND FENCING SHALL BE COMPLETELY REMOVED TO THE SATISFACTION OF THE ENGINEER AND BEFORE FINAL ACCEPTANCE.
4. THE CONTRACTOR SHALL NOT REMOVE ANY TREES WITHOUT COORDINATING SUCH REMOVAL WITH THE ENGINEER. IF ANY TREES ARE REMOVED IN WETLAND JURISDICTIONAL, OR NATIVE VEGETATION AREAS WITHOUT PROPER AUTHORIZATION, CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A DETAILED RESTORATION AND/OR MITIGATION PLAN, SUBMITTING PLAN TO AND OBTAINING APPROVAL FROM FDEP, WATER MANAGEMENT DISTRICT, CITY, OWNER AND ENGINEER, AND COMPLETING ANY MONITORING AND MAINTENANCE REQUIREMENTS IMPOSED AS A RESULT OF TREE REMOVAL.

THE CONTRACTOR SHALL:

5. HANDLE, COLLECT, AND DISPOSE OF HAZARDOUS MATERIALS, SANITARY WASTE, AND CONSTRUCTION WASTE MATERIALS ACCORDING TO THE APPLICABLE STATE LAWS AND REGULATIONS, CITY ORDINANCES, OR AS DIRECTED BY THE CITY.
6. DESIGNATE AN AREA FOR DISCHARGE OF SURPLUS CONCRETE AN CONCRETE TRUCK DRUM WASH WATER. INSTALL A CONTAINMENT BERM AROUND THIS DESIGNATED AREA TO PREVENT RUNOFF BEYOND THE DESIGNATED AREA. ALL SURPLUS CONCRETE SHALL BE REMOVED FROM THE PROJECT SITE PRIOR TO FINAL INSPECTION.
7. STORE AND USE PETROLEUM AND OTHER HAZARDOUS PRODUCTS ACCORDING TO RECOMMENDED PROCEDURES.
8. FOLLOW GOOD HOUSEKEEPING PRACTICES TO MINIMIZE THE RISK OF SPILLS OR UNINTENDED EXPOSURE OF PETROLEUM AND OTHER HAZARDOUS MATERIALS TO STORMWATER RUNOFF OR SEEPAGE INTO THE GROUNDWATER.
9. HAVE PRE-PREPARED PROCEDURES CLEARLY POSTED FOR SPILL CONTAINMENT AND CLEAN-UP.
10. HAVE READILY AVAILABLE REMEDIATION MATERIALS FOR SPILL CONTAINMENT AND CLEAN-UP.
11. UPON RELEASE, IMMEDIATELY INITIATE RECOMMENDED METHODS FOR SPILL CONTAINMENT AND CLEAN-UP.
12. WITHIN 24-HOURS OF THE SPILL/RELEASE, NOTIFY THE 'STATE WARNING POINT' (AT 1.800.320.0519 OR 1.850.413.9911) OF ALL RELEASES EQUAL TO OR EXCEEDING THE REPORTABLE QUANTITY.

EROSION CONTROL NOTES:

1. THE CONTRACTOR SHALL PREVENT THE DISCHARGE OF SEDIMENT DUE TO CONSTRUCTION OPERATIONS. ALL NEW AND EXISTING DRAIN PIPES AND STRUCTURES SHALL BE FLUSHED CLEAN PRIOR TO FINAL PAYMENT.
2. ALL STORM SEWER INLETS SHALL BE PROTECTED SO THAT SEDIMENT LADEN WATER WILL NOT ENTER THE STORM SYSTEM WITHOUT FIRST BEING FILTERED.
3. ALL DISTURBED AREAS ARE TO BE SODDED. ALL STABILIZATION PRACTICES SHALL BE PERFORMED AS SOON AS PRACTICAL AT LOCATIONS WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL GROUND COVER IS ACHIEVED AND, IN THE OPINION OF THE ENGINEER, PROVIDES ADEQUATE COVER AND IS MATURE ENOUGH TO CONTROL SOIL EROSION SATISFACTORILY. TO SURVIVE ADVERSE WEATHER CONDITIONS.
4. STAKED SILT FENCE SHALL BE PLACED IN ACCORDANCE WITH CITY OF OCALA SPECIFICATIONS.
5. THE CONTRACTOR WILL PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT BOUNDARIES DURING CONSTRUCTION ACTIVITIES. ALL FERTILIZERS, HYDROCARBON, OR OTHER CHEMICAL CONTAINERS SHALL BE DISPOSED OF BY THE CONTRACTOR ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.
6. LOADED HAUL TRUCKS SHALL BE COVERED WITH TARPULIN. EXCESS DIRT ON THE ROAD SHALL BE REMOVED DAILY. AREAS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE DAMPENED WITH WATER AS REQUIRED FOR DUST CONTROL.
7. THE CONTRACTOR WILL ADHERE TO ALL STATE AND LOCAL REGULATIONS.
8. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE MAINTENANCE AND REPAIRS OF EROSION AND SEDIMENT CONTROL DEVICES, AND REMOVAL OF EROSION AND SEDIMENT CONTROL DEVICES AFTER THE NOTICE OF TERMINATION. MAINTENANCE AND REPAIR REQUIRED FOR THE CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION SHALL BE INCLUDED IN THE PROJECT COST.
9. TOXIC SUBSTANCES SHALL BE DISPOSED OF BY THE CONTRACTOR ACCORDING TO THE EPA'S STANDARD PRACTICES.
10. THE FOLLOWING PRACTICES WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS:
 - A. ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER.
 - B. IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.
 - C. ALL POLLUTION CONTROLS SHALL BE MAINTAINED AT ALL TIMES.
 - D. BUILT UP SEDIMENT WILL BE REMOVED FROM STAKED SILT FENCE WHEN IT HAS REACHED ONE-HALF THE HEIGHT OF THE SILT FENCE.
11. POLLUTION CONTROL MEASURES SHALL BE INSPECTED DAILY. WRITTEN DOCUMENTATION OF INSPECTIONS SHALL BE WRITTEN EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF A RAIN EVENT OF 0.5 INCHES OR GREATER.
12. THE CONTRACTOR WILL PROVIDE THE CITY OF OCALA WITH AN EROSION CONTROL PLAN THAT WILL INCLUDE SPILL REPORTING AND RESPONSE. IF CONTAMINATED SOIL OR GROUNDWATER IS ENCOUNTERED, CONTACT THE PROJECT ENGINEER.

REVISIONS				HECTOR A. COLON, PE P.E. LICENSE NUMBER 84007 CITY OF OCALA, FLORIDA 1805 NE 30TH AVENUE OCALA, FLORIDA 34470	PREPARED BY	PROJECT NO's. 18206 & 19326	SHEET NO. 3
DATE	DESCRIPTION	DATE	DESCRIPTION		PROJECT NAME: LIFT STATIONS #9 & #22 IMPROVEMENTS		
----					<i>GENERAL NOTES</i>		

FDOT NOTES:

1. ALL CONSTRUCTION WITHIN THE FDOT RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE LATEST FDOT DESIGN STANDARDS, AND THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND THE UTILITY ACCOMMODATION (UAM).
2. RESTORE AND RE-SOD ALL DISTURBED AREAS WITH ARGENTINE BAHIA IN ACCORDANCE WITH THE FDOT STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL MAINTAIN THAT PORTION OF THE RIGHT-OF-WAY AFFECTED BY THE PERMIT UNTIL VEGETATION IS ESTABLISHED. PERFORM ALL WORK NECESSARY, INCLUDING WATERING AND FERTILIZING, TO SUSTAIN AN ESTABLISHED TURF UNTIL FINAL ACCEPTANCE, AT NO ADDITIONAL EXPENSE TO FDOT OR THE CITY OF OCALA. PROVIDE FILLING, LEVELING, AND REPAIRING OF ANY WASHED OR ERODED AREAS, AS MAY BE NECESSARY.
3. AT SUCH LOCATIONS WHERE FDOT SIGNS, REFLECTORS, OR OTHER STRUCTURES WILL INTERFERE WITH PROPOSED CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE LOCAL MAINTENANCE OFFICE OR PROJECT ENGINEER 48 HOURS PRIOR TO CONSTRUCTION. ALL ITEMS THAT REQUIRE RELOCATION OR REPLACEMENT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. IF THE WORK IS WITHIN 500' OF THE TRAFFIC SIGNAL CONTRACTOR SHALL CONTACT THE CITY OF OCALA PUBLIC WORKS DEPT. - TRAFFIC OPERATIONS (352) 351-6733
4. THE CONTRACTOR IS RESPONSIBLE FOR MOWING, AT NO ADDITIONAL EXPENSE TO FDOT OR THE CITY OF OCALA, ANY AREA WITHIN PUBLIC RIGHT-OF-WAYS WHERE THE PERMITTED WORK OR WHERE UTILITY LOCATE FLAGS PLACED FOR PERMITTED WORK CREATES A HINDRANCE FOR OR INTERFERES WITH MAINTENANCE ENTITY'S REGULAR MOWING OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MOWING UNTIL ALL SUCH HINDRANCES ARE REMOVED SO THAT REGULAR MAINTENANCE ENTITY MOWING CAN BE RESUMED. THE CONTRACTOR SHALL MEET THE MOWING REQUIREMENTS ESTABLISHED BY THE DEPARTMENT'S MAINTENANCE RATING PROGRAM (MRP). CONTACT THE LOCAL FDOT MAINTENANCE OFFICE FOR DETAILS (352.732.1338)
5. ALL UTILITY LOCATE FLAGS SHALL BE REMOVED BY THE CONTRACTOR WHEN THEY ARE NO LONGER NEEDED.
6. REVIEW AND COMPLY WITH THE "SPECIAL PROVISIONS" AND OTHER ATTACHMENTS TO THE FDOT PERMIT FOR THIS PROJECT.
7. CALL "FLORIDA SUNSHINE ONE-CALL" FOR UTILITY LOCATION SERVICES AT LEAST 2 BUSINESS DAYS PRIOR TO CONSTRUCTION (1-800-432-4770).
8. MAINTENANCE OF TRAFFIC (MOT) PLAN & TRAFFIC CONTROL THROUGHOUT THE WORK ZONE SHALL BE PER THE FDOT STANDARD INDEX 102- 600 SERIES.
9. COORDINATE ALL UTILITY CLEARANCES WITH THE OWNER OF SUCH UTILITIES PRIOR TO CONSTRUCTION COMMENCEMENT.
10. CONTRACTOR SHALL CONDUCT A SIDEWALK SURVEY TO DETERMINE THE EXISTING CONDITION OF AFFECTED SIDEWALKS AND SUBMIT SAID SURVEY TO FDOT AND THE CITY OF OCALA'S ENGINEER OF RECORD PRIOR TO CONSTRUCTION.
11. CONTRACTOR SHALL NOTIFY ALL PROPERTY OWNERS AFFECTED BY PROPOSED CONSTRUCTION ACTIVITIES IN ADVANCE OF SUCH OPERATIONS IN ACCORDANCE WITH FDOT NOTIFICATION REQUIREMENTS.
12. A PRE-CONSTRUCTION CONFERENCE SHALL BE CONDUCTED BY THE CITY OF OCALA WITH THE CONTRACTOR, FDOT PERSONNEL AND MARION COUNTY PERSONNEL.

SURVEY & MAPPING NOTES:

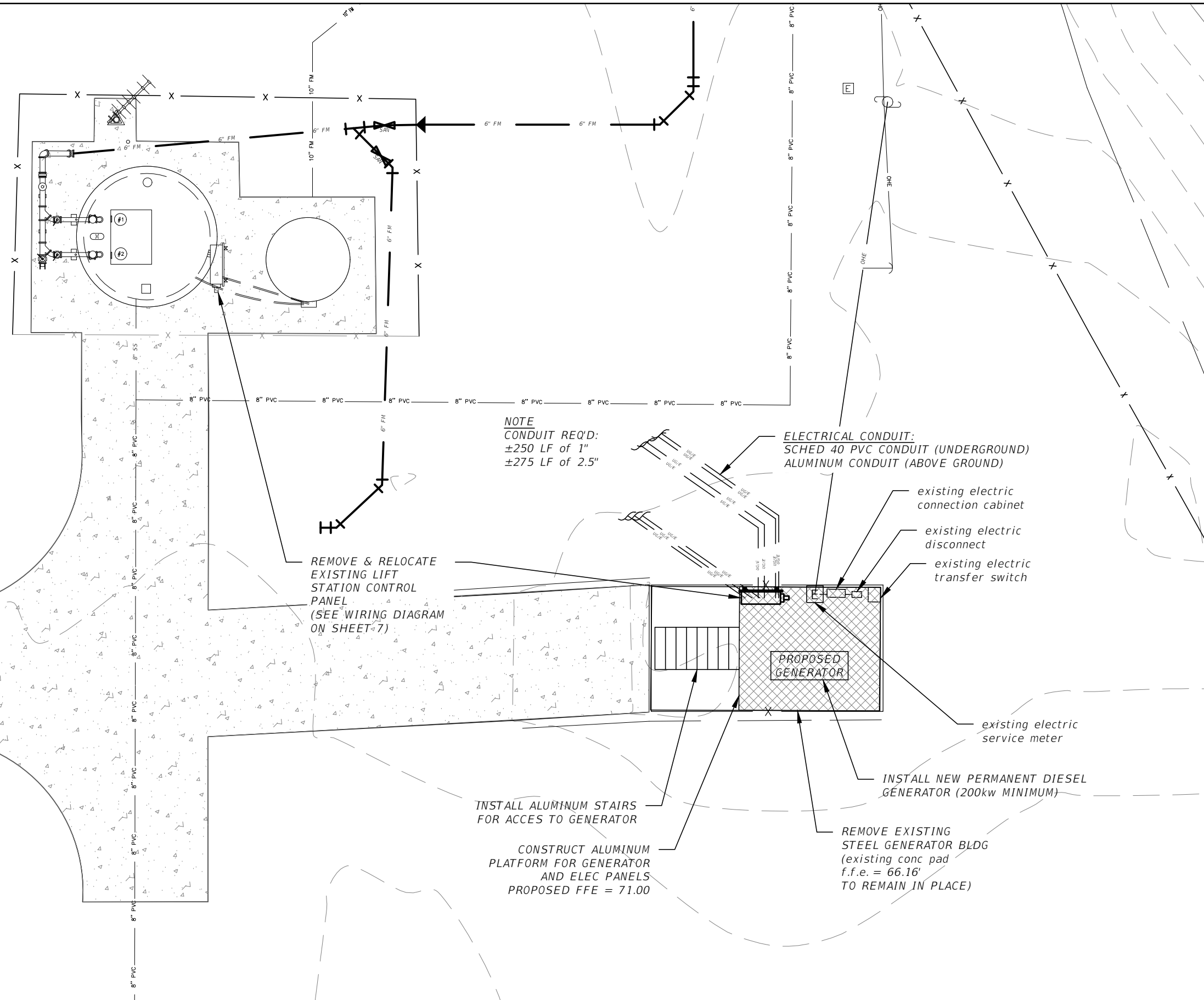
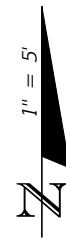
1. BACKGROUND ELEMENTS SHOWN HEREON REPRESENTING THE CONDITION OF EXISTING IMPROVEMENTS AND SURFACE FEATURES LYING WITHIN AND IN NEAR PROXIMITY TO THE PROJECT AREA DEPICTED IN THESE PLANS IS THE RESULT OF THE TOPOGRAPHIC SURVEY CONDUCTED ON THE GROUND BETWEEN OCTOBER 19 AND OCTOBER 22, 2010, RECORD OF WHICH WAS DOCUMENTED IN FIELD BOOK 555, PAGES 30 THROUGH 35. ALSO, BETWEEN FEBRUARY 28 AND APRIL 26, 2011, RECORD OF WHICH WAS DOCUMENTED IN FIELD BOOK 557, PAGES 39 & 69 THROUGH 73. ALSO, BETWEEN OCTOBER 17 AND NOVEMBER 10, 2011, RECORD OF WHICH WAS DOCUMENTED IN FIELD BOOK 585, PAGES 63 & 72 THROUGH 74. AND BETWEEN JULY 18 AND AUGUST 01, 2018, RECORD OF WHICH WAS DOCUMENTED IN FIELD BOOK 600, PAGES 48 THROUGH 53. INCLUSIVE, PURSUANT TO SURVEY DIVISION WORK ORDER 18-011105.
2. COORDINATES AND BEARINGS SHOWN HEREON ARE BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM (WEST ZONE), NORTH AMERICAN DATUM (NAD) OF 1983 (1990 ADJUSTMENT) AS DETERMINED THROUGH REAL-TIME KINEMATIC (RTK) OBSERVATIONS UTILIZING BOTH GLOBAL POSITIONING SYSTEM (GPS) AND GLOBAL NAVIGATION SATELLITE SYSTEM (GLONASS) CONSTELLATIONS, THE CORRECTIONS TO WHICH WERE RECEIVED FROM THE FLORIDA PERMANENT REFERENCE NETWORK (FPRN) AS OPERATED AND MAINTAINED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT).
3. ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988, AS DETERMINED THROUGH A COMBINATION OF DIFFERENTIAL LEVELING TECHNIQUES AND REAL-TIME KINEMATIC (RTK) OBSERVATIONS (TO OBTAIN GPS-DERIVED HEIGHTS OF CONTROL POINTS ESTABLISHED FOR THIS PROJECT UTILIZING BOTH GLOBAL POSITIONING SYSTEM (GPS) AND GLOBAL NAVIGATION SATELLITE SYSTEM (GLONASS) CONSTELLATIONS, THE CORRECTIONS TO WHICH WERE RECEIVED FROM THE FLORIDA PERMANENT REFERENCE NETWORK (FPRN) AS OPERATED AND MAINTAINED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION) WITH APPROPRIATE CHECKS TO SOURCE BENCHMARK "V 423" (PERMANENT IDENTIFIER "AB5090"), ELEVATION 76.02 FEET, AS PUBLISHED BY THE NATIONAL GEODETIC SURVEY (NGS); SUBSEQUENT MEASUREMENTS USING TRIGONOMETRIC LEVELING TECHNIQUES WERE PERFORMED TO REDUNDANTLY VERIFY THE RELATIVE ELEVATION DIFFERENCES BETWEEN CONTROL POINTS RESULTING IN ELEVATIONS FOR FEATURES WHICH COMPRISE THE EXISTING CONDITIONS SHOWN HEREON WITH AN ACCURACY OF +/- 0.05 FEET.
4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, TO ENSURE ALL EXISTING SURVEY MARKERS ARE LOCATED, CLEARLY MARKED AND PROTECTED BY THE CONTRACTOR'S SURVEYOR.
5. ANY SURVEY MARKER, INCLUDING BUT NOT LIMITED TO PUBLIC LAND SURVEY SECTION CORNER MARKERS, BENCHMARKS, PROPERTY CORNER MARKERS, ETC., WHICH ARE DISTURBED DURING CONSTRUCTION, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE PRIOR TO FINAL PAYMENT.
6. ADDITIONALLY, SURVEY STAKES MARKING THE LOCATION OF MARKERS, PROPERTY LINES, RIGHT-OF-WAY LINES, OR ANY OTHER POINT, PLACED FOR CONSTRUCTION AND SUBSEQUENTLY DISTURBED OR DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AS NEEDED AT THE RESPONSIBILITY OF THE CONTRACTOR.
7. THE RE-SETTING OF MONUMENTS AND MARKERS SHALL BE PERFORMED BY A PROFESSIONAL LAND SURVEYOR LICENSED TO PRACTICE IN THE STATE OF FLORIDA AND SHOWN AS RE-SET ON AS-BUILT PLANS.
8. UNLESS PRIOR AGREEMENT IS MADE, IT SHALL NOT BE THE RESONSIBILITY OF THE CITY SURVEYOR TO REPLACE ANY SURVEY MARKERS.

STORMWATER NOTES:

1. NO CHANGES TO THE WORK AS SHOWN ON THESE PLANS SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE PROJECT ENGINEER. CONTRACTOR SHALL NOT SCALE DRAWINGS. CONTRACTOR SHALL CHECK ACTUAL SITE CONDITIONS PRIOR TO CONSTRUCTION. ANY NEED FOR CLARIFICATION OF PROPOSED IMPROVEMENTS OR FOR RESOLUTION OF DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER.
2. THE CONTRACTOR AND SUBCONTRACTORS ARE HEREBY REQUIRED TO PROMPTLY NOTIFY THE PROJECT ENGINEER OF ANY DISCREPANCIES OR CONFLICTS FOUND IN THE PLANS OR SPECIFICATIONS, SO THEY CAN BE CLARIFIED BY THE ENGINEER.
3. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING IMMEDIATELY WHEN CONFLICTS ARE IDENTIFIED DURING THE COURSE OF THE WORK.
4. THE PROJECT ENGINEER SHALL HAVE ACCESS TO THE WORK SITE AT ALL TIMES.
5. WHEN OPERATING OUTSIDE CITY OF OCALA RIGHT-OF-WAY, THE CONTRACTOR SHALL GIVE PROPER NOTIFICATION AND OBTAIN WRITTEN PERMISSION TO DO SO FROM THE OWNER OF EACH PARTICULAR PROPERTY.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE PROPERTY OWNERS REGARDING RELOCATION, REMOVAL, OR REPLACEMENT OF FENCES, MAILBOXES, SURVEY MONUMENTS AND SECTION CORNERS, DRIVEWAYS, LANDSCAPE, ETC. NEW CONSTRUCTION SHALL BE EQUIVALENT TO EXISTING FEATURES REMOVED OR RELOCATED, AS DETERMINED BY THE PROJECT ENGINEER.
7. ALL AREAS INSIDE AND OUTSIDE THE PROJECT LIMITS, WHICH ARE DISTURBED AS A RESULT OF THE PROJECT CONSTRUCTION, SHALL BE RESTORED TO THE ORIGINAL OR DESIGN GRADE AS APPLICABLE, INCLUDING REPLACEMENT OR EQUIVALENT SHRUBS AND TREES (REPLACEMENT TREES SHALL BE A 6' MINIMUM HEIGHT AND SAME TYPE) AND SODDED AT THE CONTRACTOR'S EXPENSE, UNLESS OTHERWISE APPROVED BY THE PROJECT ENGINEER.
8. IT IS THE RESPONSIBILITY OF THE CONTRACTOR, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, TO ENSURE ALL EXISTING SURVEY MARKERS ARE LOCATED, CLEARLY MARKED AND PROTECTED, BY THE CONTRACTORS SURVEYOR. ANY SURVEY MARKER, INCLUDING, BUT NOT LIMITED TO, PUBLIC LAND SURVEY SECTION CORNER MARKERS, BENCH MARKS, PROPERTY CORNERS, ETC., WHICH ARE DISTURBED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE PRIOR TO FINAL PAYMENT. ADDITIONALLY, SURVEY STAKES PLACED MARKING THE LOCATIONS OF MARKERS, PROPERTY LINES, RIGHT-OF-WAY LINES, OR ANY OTHER POINT, PLACED FOR CONSTRUCTION AND SUBSEQUENTLY DISTURBED OR DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AS NEEDED AT THE RESPONSIBILITY OF THE CONTRACTOR. RESETTING OF MONUMENTS AND MARKERS SHALL BE PERFORMED BY A PROFESSIONAL LAND SURVEYOR, LICENSED TO PRACTICE IN THE STATE OF FLORIDA AND SHOWN AS RE-SET ON AS-BUILT PLANS. UNLESS PRIOR AGREEMENT IS MADE, IT SHALL NOT BE THE RESPONSIBILITY OF THE CITY SURVEYOR TO REPLACE ANY SURVEY MARKERS.
9. ALL DETAILS, SECTIONS, AND NOTES SHOWN ON DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS NOTED OR SHOWN OTHERWISE.
10. ANY REQUIRED ADJUSTMENT ON TELEPHONE & GAS LINES DURING CONSTRUCTION SHALL BE DONE BY OTHERS.
11. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BECOME FAMILIAR WITH THE OSHA EXCAVATION SAFETY STANDARDS AND TO ABIDE BY THEM AS COVERED UNDER THE FLORIDA TRENCH SAFETY ACT.
12. THE CONTRACTOR IS HEREBY REQUIRED TO IMPLEMENT JOB SAFETY AT ALL TIME THROUGHOUT THE DURATION OF THE PROJECT. JOB SAFETY PRACTICES SHALL BE IN ACCORDANCE WITH OSHA AND ANY OTHER LOCAL, STATE, AND FEDERAL REGULATIONS.
13. UTILITIES SHOWN HEREON HAVE BEEN LOCATED BASED ON ABOVE GROUND EXISTENCE OF STRUCTURES. ACTUAL LOCATION OF UNDERGROUND UTILITIES IS UNKNOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UTILITIES SHOWN OR NOT SHOWN THROUGH DIRECT CONTACT WITH THE APPROPRIATE UTILITY COMPANIES. SUCH CONTACT SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT.

CONTRACTOR SHALL BE REQUIRED TO NOTIFY UTILITY CONTACTS PRIOR TO CONSTRUCTION TO ALLOW UTILITY RELOCATIONS AND INSTALLATION OF FACILITIES, SUCH AS CONDUIT CROSSING FOR FUTURE USE, THESE SHALL BE ACCOMPLISHED BY THE RESPECTIVE UTILITY OWNER.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO UTILITIES, STRUCTURES, AND PROPERTY OF AND ADJACENT TO THE SITE CAUSED BY CONSTRUCTION ACTIVITIES.
19. THE CONTRACT IS RESPONSIBLE FOR BRACING, SHORING, OR PROVIDING OTHER MEANS NECESSARY TO PROTECT AND SUPPORT EXISTING UTILITIES EXPOSED DURING CONSTRUCTION UNTIL THE RESPONSIBLE UTILITY COMPANY ARRIVES ON SITE.
20. COORDINATION TO AVOID POSSIBLE CONFLICTS BETWEEN WATER MAINS, PRESSURE MAINS, GRAVITY SEWERS AND OTHER CONSTRUCTION UNDER THIS PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
21. CONTRACTOR TO FIELD VERIFY TOP ELEVATIONS OF ALL DRAINAGE STRUCTURES, AND SEWER MANHOLES PRIOR TO FABRICATIONS.
22. ALL EXISTING STORM WATER DRAINAGE PATTERNS AND CHANNELS OUTSIDE THE CONSTRUCTION AREAS SHOWN ON THESE PLANS ARE TO BE MAINTAINED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF THE WORK APPEARS TO INTERRUPT AN EXISTING STORM WATER DRAINAGE PATTERN. THE CONTRACTOR SHALL MAINTAIN A CLEAR PATH FOR ALL SURFACE WATER DRAINAGE STRUCTURES AND DITCHES DURING ALL PHASES OF CONSTRUCTION SUCH THAT IMPACT TO CONSTRUCTION AND/OR SURROUNDING FACILITIES IS MINIMIZED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EROSION, SEDIMENT TRANSPORT, DISTURBED FOUNDATIONS, IMPACT TO STRUCTURE, AND ANY OTHER DAMAGE CAUSED DURING CONSTRUCTION.
23. ALL MANHOLE COVERS, VALVE BOX COVERS AND OTHER COVERS SHALL BE ADJUSTED AS NEEDED, CONTRACTOR SHALL ADJUST PRIOR TO LAYING FINAL ASPHALT OR CONCRETE COURSE. WHERE SANITARY SEWER MANHOLE LIDS ARE TO BE REMOVED AND REPLACED WITH HINGED LIDS, THE CITY'S WATER & SEWER DEPARTMENT SHALL FURNISH THE LIDS.
24. CONTRACTOR SHALL COORDINATE RELOCATION OF OVERHEAD UTILITIES TO MEET THE MINIMUM VERTICAL CLEARANCE OF 18 FEET AND THE HORIZONTAL CLEAR ZONE DISTANCE. TREES TO REMAIN IN THE RIGHT OF WAY SHALL BE TRIMMED TO MEET THE VERTICAL CLEARANCE AS SPECIFIED BY THE LATEST FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
25. UNSUITABLE MATERIAL FROM WITHIN THE PROJECT SHALL BE DISPOSED OF OFF SITE BY THE CONTRACTOR. SUITABLE MATERIAL FROM WITHIN THE PROJECT SHALL BE USED FOR FILL AS SHOWN ON THE CROSS SECTIONS.
26. UNSUITABLE MATERIAL SHALL BE EXCAVATED BELOW PIPE AS FOLLOWS: LESS THAN 8 FEET FROM PIPE INVERT TO FINISHED GRADE - EXCAVATE 2 FEET BELOW PIPE. MORE THAN 8 FEET FROM PIPE INVERT TO FINISHED GRADE - EXCAVATE 1 FOOT BELOW PIPE.
27. ALL EXISTING SUB BASE SHALL BE FREE FROM DELETERIOUS MATERIALS AND UNDUE DISTORTION, BE FIRM AND COMPACT, AND HAVE ADEQUATE MOISTURE LEVELS TO MAINTAIN STABILITY AS A WORK AREA IMMEDIATELY PRIOR TO PAVEMENT OF THE BASE MATERIAL.

REVISIONS				HECTOR A. COLON, PE P.E. LICENSE NUMBER 84007 CITY OF OCALA, FLORIDA 1805 NE 30TH AVENUE OCALA, FLORIDA 34470	PREPARED BY	PROJECT NO's. 18206 & 19326	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			PROJECT NAME: LIFT STATIONS #9 & #22 IMPROVEMENTS	
----	----					<i>GENERAL NOTES</i>	4



NOTE
 CONDUIT REQ'D:
 ±250 LF of 1"
 ±275 LF of 2.5"

ELECTRICAL CONDUIT:
 SCHED 40 PVC CONDUIT (UNDERGROUND)
 ALUMINUM CONDUIT (ABOVE GROUND)

REMOVE & RELOCATE
 EXISTING LIFT
 STATION CONTROL
 PANEL
 (SEE WIRING DIAGRAM
 ON SHEET 7)

existing electric
 connection cabinet
 existing electric
 disconnect
 existing electric
 transfer switch

PROPOSED
 GENERATOR

existing electric
 service meter

INSTALL ALUMINUM STAIRS
 FOR ACCES TO GENERATOR

INSTALL NEW PERMANENT DIESEL
 GENERATOR (200kw MINIMUM)

CONSTRUCT ALUMINUM
 PLATFORM FOR GENERATOR
 AND ELEC PANELS
 PROPOSED FFE = 71.00

REMOVE EXISTING
 STEEL GENERATOR BLDG
 (existing conc pad
 f.f.e. = 66.16'
 TO REMAIN IN PLACE)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

HECTOR A. COLON, PE
 P.E. LICENSE NUMBER 84007
 CITY OF OCALA, FLORIDA
 1805 NE 30TH AVENUE
 OCALA, FLORIDA 34470

PREPARED BY

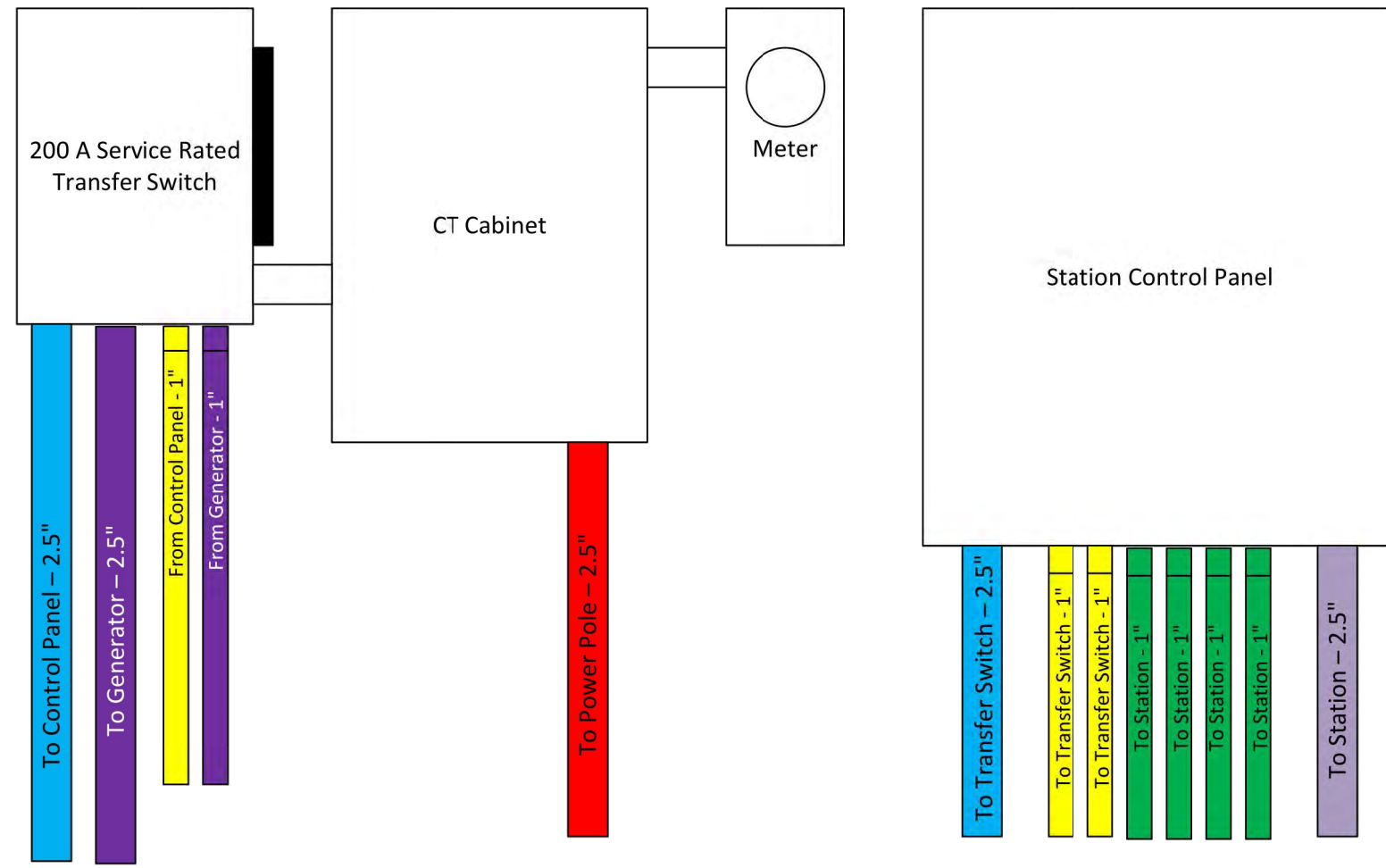
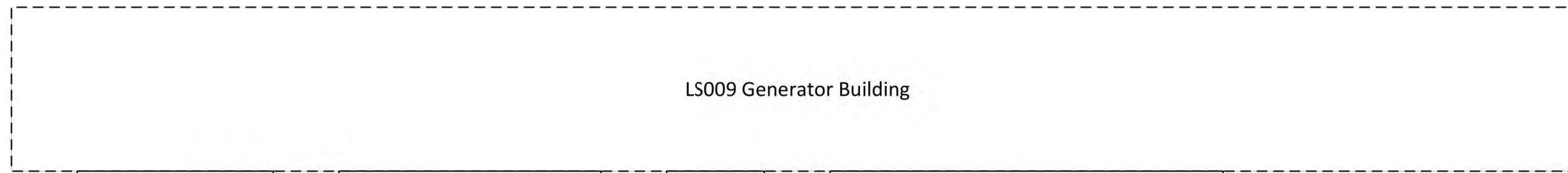
CITY ENGINEER'S OFFICE

PROJECT NO. 19326
 PROJECT NAME: LIFT STATIONS #9 & #22 IMPROVEMENTS

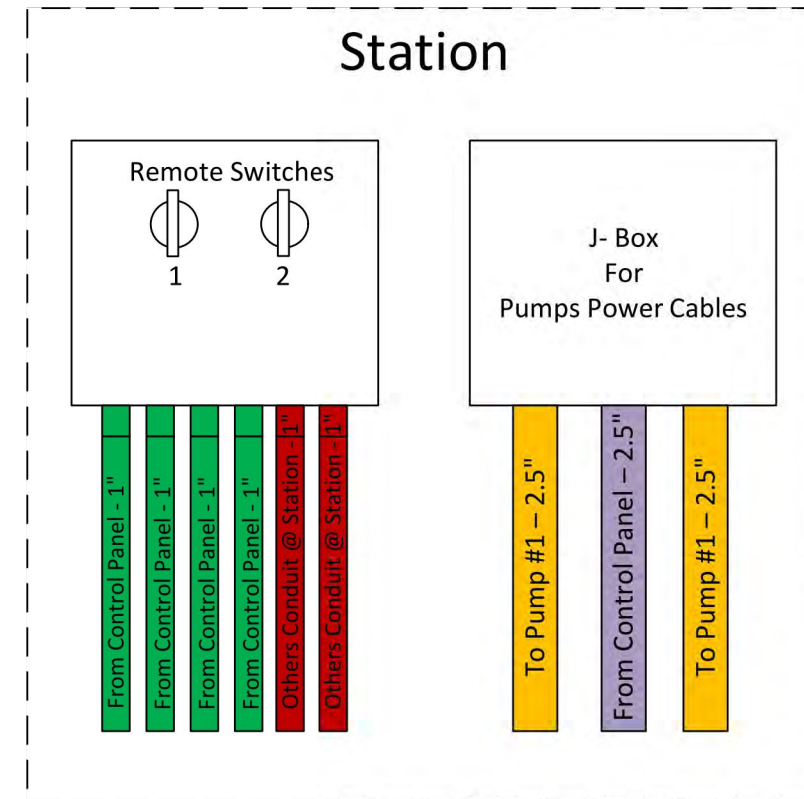
LIFT STATION #9 PLAN

SHEET NO.
 5

LS009 Generator Building



During control panel relocation, system needs to be on bypass with at least 2 backup pumps.



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

HECTOR A. COLON, PE
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 1805 NE 30TH AVENUE
 OCALA, FLORIDA 34470

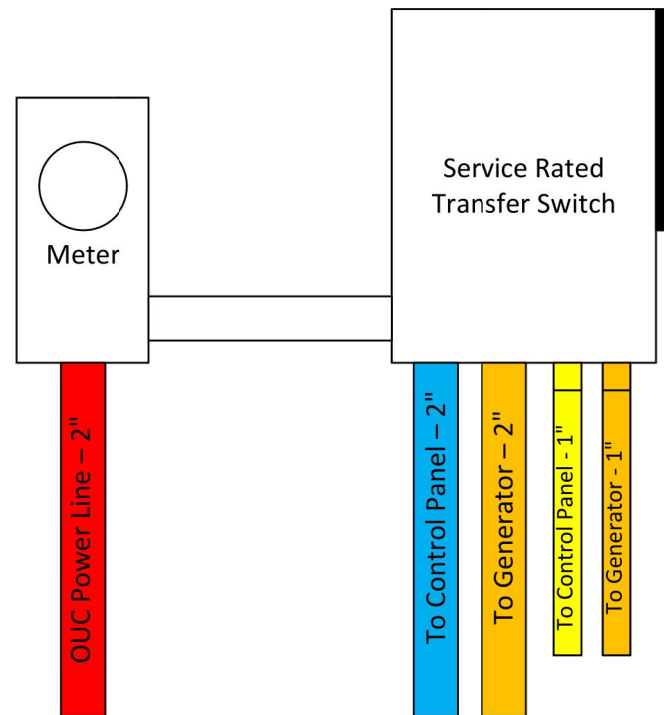
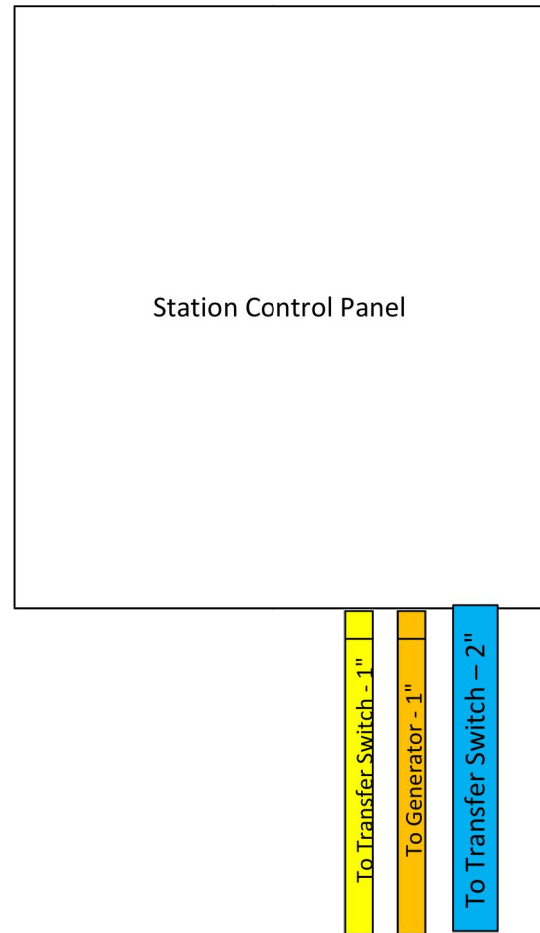
PREPARED BY

CITY ENGINEER'S OFFICE

PROJECT NO. 19326
 PROJECT NAME: LIFT STATIONS #9 & #22 IMPROVEMENTS

LS #9 WIRING CONDUITS

SHEET NO.
 7



During control panel relocation, system needs to be on bypass with at least 2 backup pumps.

REVISIONS				HECTOR A. COLON, PE P.E. LICENSE NUMBER 84007 CITY OF OCALA, FLORIDA 1805 NE 30TH AVENUE OCALA, FLORIDA 34470	PREPARED BY	PROJECT NO. 19326	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		PROJECT NAME: LIFT STATIONS #9 & #22 IMPROVEMENTS	8	
					OCALA CITY ENGINEER'S OFFICE	<i>LS #22 WIRING CONDUITS</i>	



Elevation (ft)	Area (sqft)	Area (ac)	Incremental Volume (cf)	Total Volume (cf)	Total Volume (act)
56	2,277	0.14	0	0	0.00
57	5,902	0.27	3,948	3,948	0.09
58	11,633	0.27	8,607	12,555	0.29
59	26,374	0.61	18,508	31,063	0.71
60	28,699	0.66	27,528	58,591	1.35
61	31,248	0.72	29,964	88,555	2.03
62	33,738	0.77	32,485	121,040	2.78
63	36,631	0.84	35,174	156,214	3.59

Elevation (ft)	Area (sqft)	Area (ac)	Incremental Volume (cf)	Total Volume (cf)	Total Volume (act)
56	37,407	0.96	0	0	0.00
57	41,724	1.06	39,546	39,546	0.91
58	46,159	1.06	43,923	83,469	1.92
59	50,732	1.16	48,428	131,896	3.03
60	55,444	1.27	53,071	184,967	4.25
61	60,322	1.38	57,866	242,833	5.57
62	65,424	1.50	62,856	305,688	7.02
63	70,675	1.62	68,033	373,721	8.58

DATUM '88
 CP #1 (4)
 EL = 64.241
 80 SET C00CP
 N = 1756409.1551
 E = 615137.3835

CP #2 (1213)
 EL = 74.440
 85 SET 5/8" R&C
 N = 1756792.4406
 E = 615634.3364

CP #3 (61)
 EL = 68.419
 80 5 LS 3362
 N = 1756370.9744
 E = 615664.1583

REVISIONS	
DATE	DESCRIPTION

PAYAL PANDYA, P.E., CFM
 P.E. LICENSE NUMBER 73210

1805 NE 30TH AVE
 OCALA, FL 34470

PREPARED BY

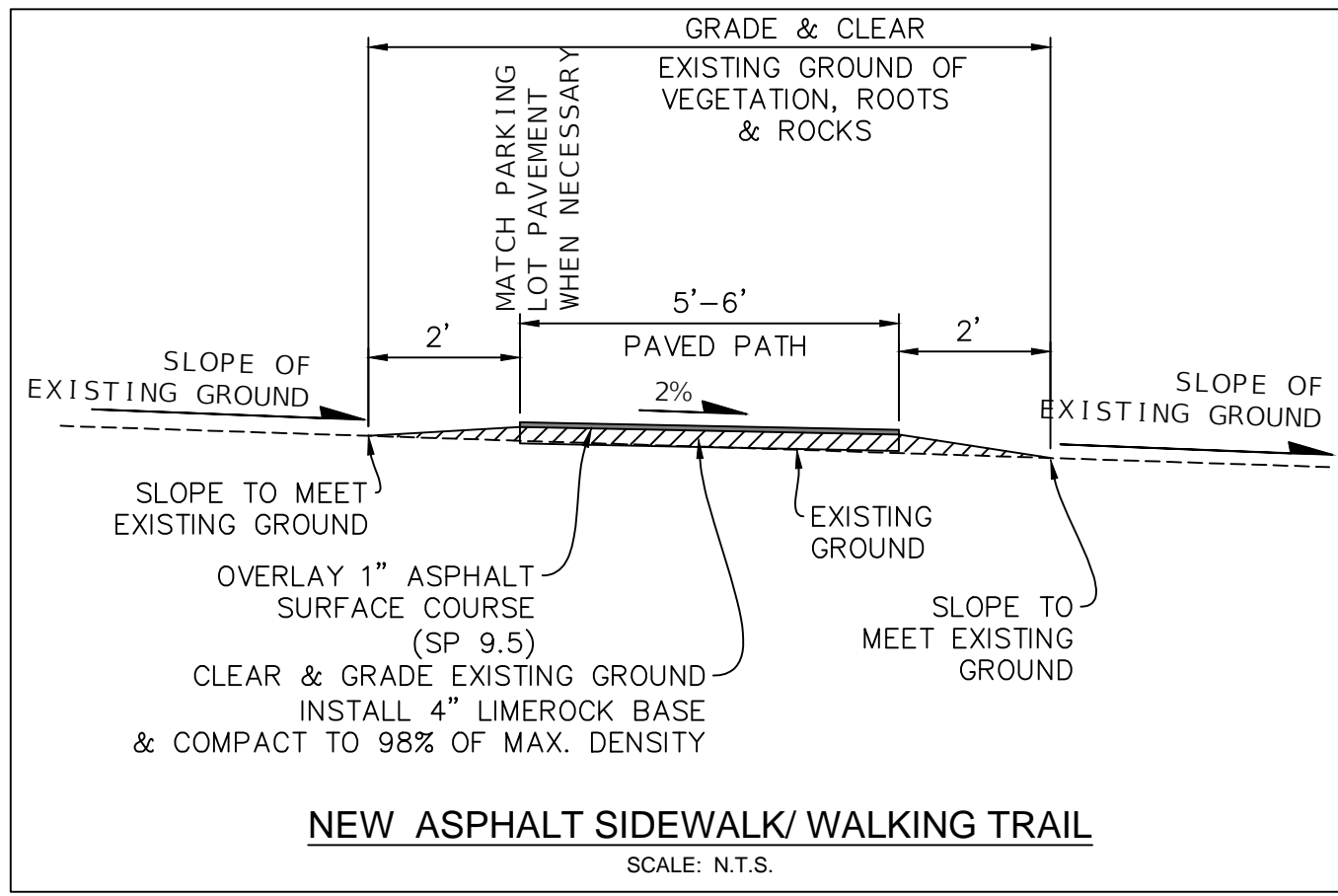
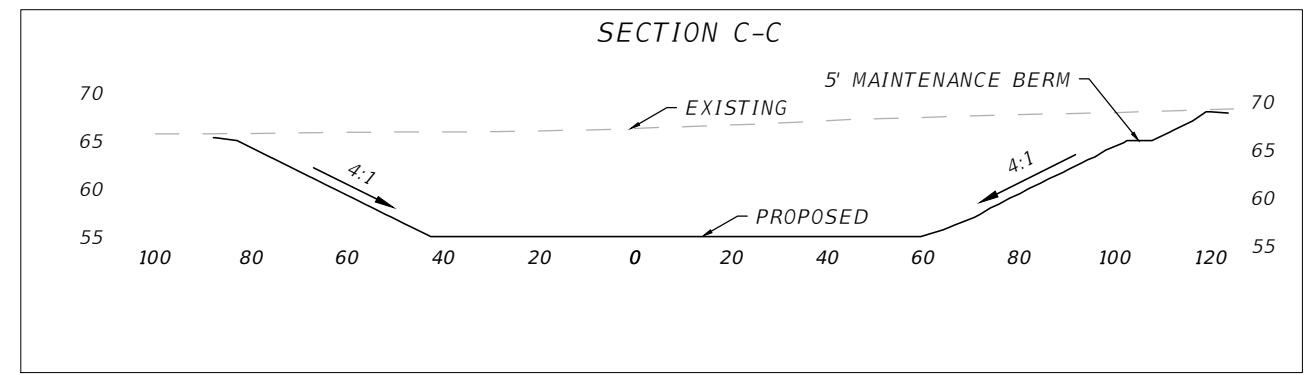
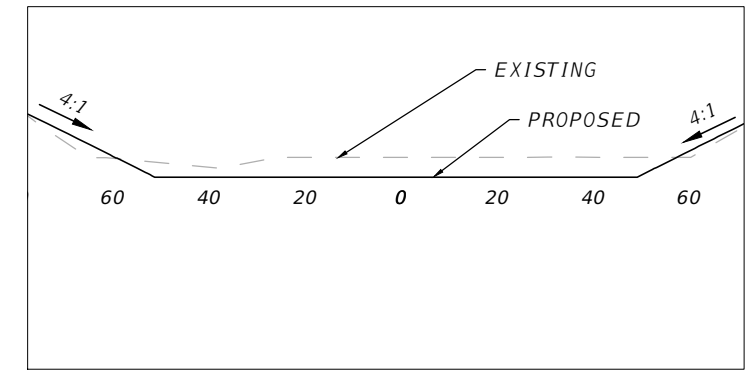
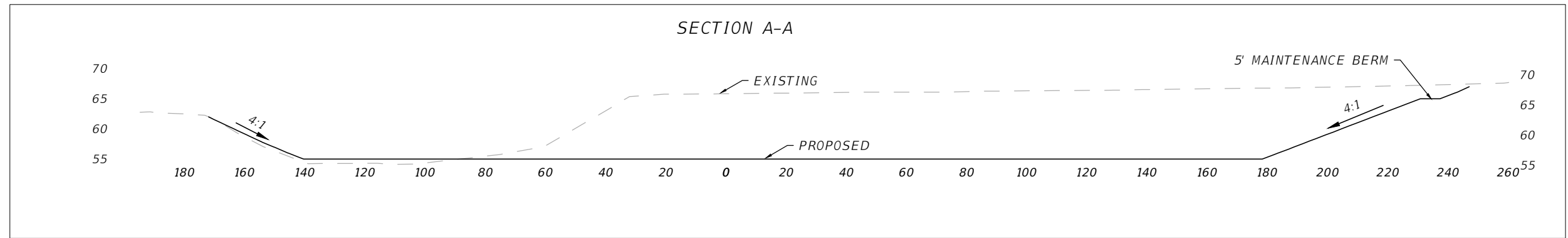
OCALA
 CITY ENGINEER'S OFFICE

Derek Farr 2/17/2023 9:56:08 AM


PROJECT NO. 18206
 PROJECT NAME: Fisher Park DRA Expansion

PLAN

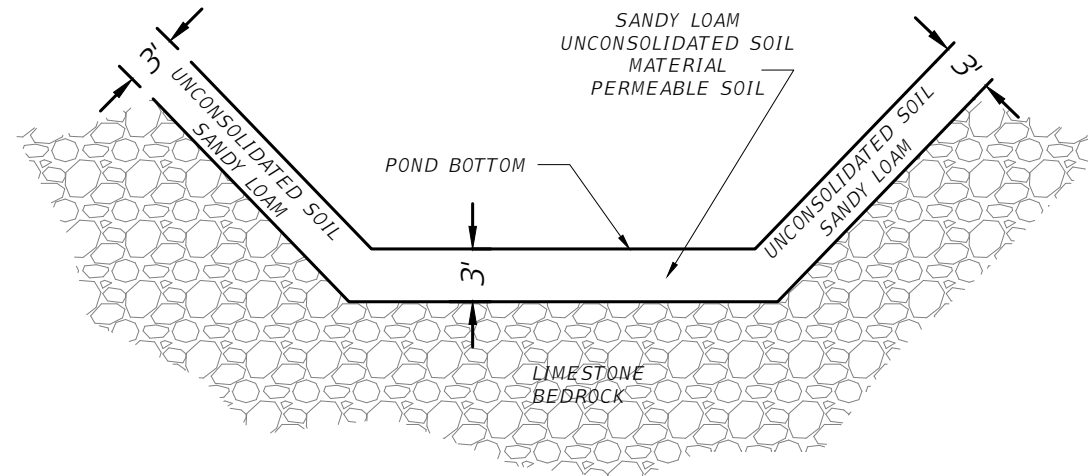
SHEET NO.
 9



NEW ASPHALT SIDEWALK/ WALKING TRAIL
SCALE: N.T.S.

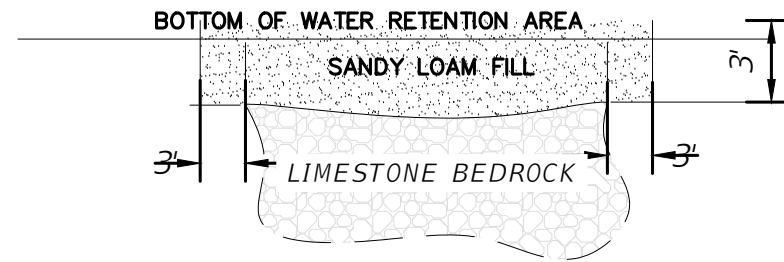
REVISIONS				PAYAL PANDYA, P.E., CFM P.E. LICENSE NUMBER 73210 1805 NE 30TH AVE OCALA, FL 34470	PREPARED BY  Derek Farr	PROJECT NO. 18206 PROJECT NAME: Fisher Park DRA Expansion	SHEET NO. 10
DATE	DESCRIPTION	DATE	DESCRIPTION				
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CROSS SECTIONS



DRY RETENTION BASIN
NTS

IF LIME ROCK IS ENCOUNTERED DURING EXCAVATION, THE RETENTION BASIN WILL BE OVER EXCAVATED AND BACK FILLED SO THAT THERE IS A MINIMUM OF THREE (3) FEET OF UNCONSOLIDATED SOIL MATERIAL BETWEEN THE SURFACE OF THE LIMESTONE BEDROCK AND THE BOTTOM AND SIDES OF THE STORM WATER BASIN. PROPOSED MATERIAL TO BE USED AS SHOWN IN THE CROSS SECTION.



KARST AREA DETAIL
NTS

NOTE:

KARST SENSITIVE AREA REQUIREMENTS.

- a. A MINIMUM OF THREE FEET OF UNCONSOLIDATED SOIL SHALL REMAIN BETWEEN THE SURFACE OF ANY UNDERLYING LIMESTONE BEDROCK AND THE BOTTOM AND SIDES OF THE RETENTION BASIN.
- b. IF, DURING EXCAVATION OF THE RETENTION BASIN, CONTACT IS MADE WITH THE UNDERLYING LIMESTONE FORMATION, THAT PORTION OF THE BASIN SHALL BE OVER-EXCAVATED A MINIMUM OF THREE FEET AND BACKFILLED WITH SANDY LOAM FILL.
- c. IF A SINKHOLE OR SOLUTION CHANNEL IS EXPOSED DURING CONSTRUCTION OF THE RETENTION BASIN, THE ENGINEER SHALL BE IMMEDIATELY CONTACTED. REPAIR WILL BE PERFORMED CONSISTENT WITH METHODOLOGIES OUTLINED IN THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT'S MAY, 1988 DRAFT APPLICANT'S HANDBOOK, KARST SENSITIVE AREAS.



CITY OF OCALA
CITY ENGINEER'S OFFICE
(352) 351-6772

**CITY OF OCALA
SPECIAL DETAIL**

KARST DETAIL

SECTION
N/A

X

REVISION DATE:

SHT 1 OF 1

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

PAYAL PANDYA, P.E., CFM
P.E. LICENSE NUMBER 73210
CITY OF OCALA, FLORIDA
1805 NE 30TH AVENUE
OCALA, FLORIDA 34470

PREPARED BY



CITY ENGINEER'S OFFICE

PROJECT NO. 18206

PROJECT NAME: Fisher Park DRA Expansion

SHEET
NO.

DETAIL

11