

	1. DEVELOPMENT DATA: PROPOSED DEVELOPMENT	12.
	TOTAL AREA= 1,057,201 S.F. 100.0% 24.27 ACRES EX. IMPERVIOUS PAVEMENT= 78,894 S.F. 7.5% TOTAL IMPERVIOUS AREA= 78.894 S.F. 7.5%	13.
<b>NNS</b>	OPEN AREA= 978,307 S.F. 92.5%	14.
	DESCRIPTION: THE PROJECT PROPOSES TO IMPROVE THE PRESENT CONDITIONS OF THE RECREATIONAL PARK FOR BETTER FIELD USAGE WHILE ALSO PROVIDING ADDITIONAL FIELD AND PARKING FOT LIGHTING AND OTHER ENHANCEMENTS	15.
	ADDITIONAL FIELD AND FARRING EOF EIGHTING AND OTHER ENHANCEMENTS.	18.
	2. SITE ZONING: PUBLIC SERVICES AND OPERATIONS - (PS)	19.
	RECREATION RUFFERS:	
	N/A	
	3. PARKING: REQUIRED:	
	CAR: N/A BIKE: N/A	
	MOTORCYCLE: N/A	
	PROVIDED: 92 REGULAR & 5 HANDICAP SPACES = 97 PROVIDED SPACES: 10 BIKE SPACES	20.
	4. UTILITIES:	
	ALL UTILITY SERVICES SHALL BE INSTALLED BELOW GRADE PER LDC SECTION 30-345.	
UΠ	<u>WATER:</u> - WATER SERVICE WILL BE OBTAINED FROM AN EXISTING CONNECTION ON SW 43RD STREET	
	ELECTRIC: - ELECTRICAL SERVICE WILL BE OBTAINED FROM PROPOSED ON-SITE TRANSFORMERS.	
	<u>GAS:</u> - N/A	
	5. STORMWATER MANAGEMENT UTILITY DATA: TOTAL IMPERVIOUS AREA (EXISTING) = 78.894 S.F.	
	TOTAL SEMI-IMPERVIOUS AREA = 19,435 S.F.	21.
	BASIN ID LOWEST DISCHARGE RETENTION VOL. BELOW RETENTION AREA AT ELEVATION (FT) LOWEST DISCHARGE EL. (CF) LOWEST DISCHARGE EL. (SF)	22.
	N/A N/A N/A N/A	23.
ОІСТ	THE PROJECT MUST COMPLY WITH ALL NPDES CRITERIA BOTH DURING AND AFTER CONSTRUCTION.	
	6. REFUSE COLLECTION: ON-SITE TRASH CANS AVAILABLE.	25. 26.
	7. PARKING LOT LIGHTING IS PROVIDED THROUGH THE GRU RENTAL LIGHT PROGRAM. THE LIGHT LOCATIONS PROVIDE FULL CUTOFF LUMINARIES AND COMPLIES WITH ARTICLE IX OF THE LAND DEVELOPMENT CODE. SEE PLAN SHEFTS P1 THROUGH P4 AND SHEFT LD21304B.	
	8. ALL NEW TRAFFIC CONTROL DEVICES (SIGNS AND PAVEMENT MARKINGS) SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND FLORIDA D.O.T. STANDARDS.	
	9. FIRE PROTECTION: ANY STRUCTURE SHALL COMPLY WITH THE FLORIDA FIRE PREVENTION CODE. FIRE PROTECTION	
	SYSTEMS PROVIDED IN THE STRUCTURES SHALL BE INSTALLED IN FULL COMPLIANCE WITH THE APPROPRIATE FIRE PROTECTION AND BUILDING CONSTRUCTION STANDARDS. ALL STABILIZED SURFACES MUST BE IN PLACE PRIOR TO ANY ACCUMULATION OF COMBUSTIBLES ON SITE. THE BUILDING IS NOT SPRINKLED.	
	10. THE OWNER OR OWNER'S AUTHORIZED AGENT SHALL DEVELOP A FIRE SAFETY PROGRAM TO ADDRESS ALL ESSENTIAL FIRE AND LIFE SAFETY REQUIREMENTS FOR THE DURATION OF DEMOLITION. ALTERATION AND	
	CONSTRUCTION. AS SPECIFIED IN THE FLORIDA FIRE PREVENTION CODE, INCLUDEING NFPA 241, THE FIRE SAFETY PROGRAM SHALL INCLUDE AN EMERGENCY RESPONCE PLAN, AS WELL AS IDENTIFYING FIRE PREVENTION	
	PRECAUTIONS, SITE AND BUILDING EMERGENCY ACCESS ROUTES, TEMPORARY AND PERMANENT WATER SUPPLIES, BUILDING EGRESS ROUTES, GOOD HOUSEKEEPING PRACTICES, AND FIRE PROTECTION SYSTEM INSTALLATION AND MAINTENANCE, ICANNESVILLE FIRE PREVENTION AND PROTECTION CODE SECTION 10.0 (MERA 1.16)	
	MAINTENANCE. [GAINESVILLE FIRE PREVENTION AND PROTECTION CODE SECTION TO-9 (NFPA 1-16)].	
	MINIMUM RADIO SIGNAL STRENGTH FOR FIRE DEPARTMENT COMMUNICATIONS IS NOT ACHIEVED AT A LEVEL DETERMINED BY THE AHJ. IT IS HIGHLY RECOMMENDED THAT DEVELOPERS EVALUATE AND ADDRESS THE	
	POTENTIAL NEED FOR IBPRES IN THE EARLY STAGES OF PROJECT PLANNING. FOR ADDITIONAL SPECIFIC REQUIREMENTS PERTAINING TO SIGNAL STRENGTH, COVERAGE, MAINTENANCE AND TESTING REFER TO NFPA 72-14 4 12 AND 24 5 2	
	[GAINESVILLE FIRE PREVENTION AND PROTECTION CODE SECTION 10-9 (NFPA 1-11.10)]	
	11. NO GENERAL HAZARDS ARE PROPOSED FOR THIS PROJECT.	
	<b>FOR REVIEW</b>	ONLY
	<b>GRU CERTIFIC</b>	ATION
	THE WATER & WASTEWATER DESIGN IS IN ACCORDANCE	SYSTEM WITH
	N.T.S. CURRENT GRU DESIGN STAN	DARDS.
	<b>PROJECT SITE</b>	
1-75		TIONS
		VEERING 48
	IF PROPER NOTIFICATION IS NOT M. CONTRACTOR IS SUBJECT TO STOP	ADE, WORK ORDER.
	2. NOTIFY GRU ELECTRIC INSPECTIC PRIOR TO CONSTRUCTION AT 352-	NS 48 HOURS 399-0430; IF
2	PROPER NOTIFICATION IS NOT MAD IS SUBJECT TO BE SHUT DOWN.	E, CONTRACTOR

**BEFORE YOU DIG !** CALL SUNSHINE STATE ONE CALL OF FLORIDA AT LEAST TWO FULL BUSINESS DAYS BEFORE



LOCATION MAP

-800-432-4770

Know what's **below**. Call before you dig

FL PE No. 84295

**C0.00** 



THE TOPOGRAPHIC AND EXISTING INFORMATION SHOWN HEREON WERE TAKEN FROM A BOUNDARY AND TOPOGRAPHIC SURVEY PREPARED BY CHW	DEMOLITION GENERAL NOTES           1. CALL THE BUILDING DEPARTMENT AT (352)334-5050 FOR A DEMOLITION INSPECTION PRIOR TO ANY DEMOLITION ACTIVITIES.
AND DATED JUNE 9, 2021. THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THE PLANS HAS BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE. THE ENGINEER	2. THE CONTRACTOR SHALL BE RESPONSIBLE TO DISPOSE OF ALL DEMOLITION MATERIALS IN A SAFE AND LAWFUL MANNER. THE CONT SHALL SALVAGE TO THE OWNER ANY ITEM AS DETERMINED BY THE OWNER. ONCE DEMOLISHED, MATERIAL SHALL BE DISPOSED OF F
ASSUMES NO RESPONSIBILITY FOR ACCURACY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITIES AND TO MAKE NECESSARY ARRANGEMENTS FOR ANY RELOCATION OF THESE UTILITIES WITH THE OWNER OF THE UTILITY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING ANY UNDERGROUND UTILITY, WHETHER SHOWN ON THE PLANS OR LOCATED BY THE UTILITY COMPANY. THE RESPECTIVE	AND IMMEDIATELY. 3. REMOVE ALL IMPROVEMENTS DEFINED ON THE DEMOLITION PLAN. SALVAGE ITEMS TO OWNER AS DEFINED BY THE OWNER'S REPRESE
UTILITY COMPANIES SHALL RELOCATE ALL UTILITIES THAT INTERFERE WITH THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL COOPERATE WITH THE UTILITY COMPANIES DURING THE RELOCATION OPERATIONS. ANY DELAY OR INCONVENIENCE CAUSED TO THE CONTRACTOR BY THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED.	<ul> <li>AND CONSTRUCTION DOCUMENT SPECIFICATIONS.</li> <li>4. EXISTING PAVEMENT AND SIDEWALK EDGES THAT BORDER NEW CONSTRUCTION OR DEMOLITION ARE TO BE SAW-CUT TO PROVIDE A TRANSITION</li> </ul>
THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES AND SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE APPROPRIATE UTILITY COMPANIES IN ORDER TO ALLOW MARKING OF THE LOCATIONS OF EXISTING UNDERGROUND FACILITIES IN ADVANCE OF	5. ALL EXISTING TREES ARE TO REMAIN UNLESS OTHERWISE NOTED.
RESPONSIBILITY TO NOTIFY "SUNSHINE" 48 HOURS PRIOR TO ANY CLEARING OF CONSTRUCTION TO IDENTIFY ALL UTILITY LOCATIONS. NO CONSTRUCTION ACTIVITY MAY OCCUR UNTIL THE UTILITIES HAVE BEEN PROPERLY MARKED.	6. ROOTS LARGER THAN 1 INCH IN DIAMETER ON TREES TO BE PRESERVED THAT ARE ENCOUNTERED DURING CONSTRUCTION MUST BE AND COVERED OVER WITH SOIL BY THE END OF THE WORKING DAY.
THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL LOCATION AND VERTICAL LOCATION OF ALL EXISTING UTILITIES WITHIN THE LIMITS OF THE PROJECT ENVELOPE SHOWN PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL CALL ALL UTILITY COMPANIES TO HAVE THE LOCATIONS OF ALL UTILITIES FIELD MARKED PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONTINUING CONSTRUCTION.	7. ALL ASPHALT AND LIMEROCK WILL BE COMPLETELY REMOVED FROM AREAS THAT WILL BE LANDSCAPED. IN PARTICULAR, AREAS WHE WILL BE REMOVED MUST HAVE THE TOP HARD SURFACE, LIMEROCK, AND COMPACTED SOIL REMOVED. REPLACEMENT SOIL SHALL BE FILL OF PH 5.5 - 6.5. THE DEPTH OF UNCOMPACTED SOIL PRIOR TO PLANTING MUST BE AT LEAST 3 FEET TO ACCOMMODATE FUTURE GROWTH. NO LIMEROCK, LARGE STONES, OR OTHER CONSTRUCTION DEBRIS CAN REMAIN IN AREAS TO BE LANDSCAPED.
THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES, ABOVE OR BELOW GROUND THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED BY THE CONTRACTOR.	PAVING, GRADING, AND DRAINAGE GENERAL NOTI
ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITIONS BEFORE COMMENCING CONSTRUCTION WORK, UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. ADDITIONAL COSTS ARE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION WILL BE ALLOWED.	1. THE CONTRACTOR IS RESPONSIBLE FOR EROSION/SEDIMENTATION CONTROL PRACTICES DURING CONSTRUCTION TO MINIMIZE ON-SI EROSION/SEDIMENTATION AND TO PROTECT AGAINST DAMAGE TO OFF SITE PROPERTY. THE FOLLOWING PRACTICES SHALL BE EMPL A. FROSION AND SEDIMENTATION CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. AREAS OF OFF-SITE DISCHARGE
ALL WORK PERFORMED SHALL COMPLY WITH THE REGULATIONS AND ORDINANCES OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK INCLUDING LANDSCAPING.	CONSTRUCTION SHALL BE PROTECTED WITH A SEDIMENT BARRIER PER FLORIDA STORMWATER EROSION AND SEDIMENTATION CO INSPECTOR'S MANUAL TO PREVENT OFF-SITE DISCHARGE OF SEDIMENTS. A SILT BARRIER SHALL SPECIFICALLY BE REQUIRED, CO AND MAINTAINED AS INDICATED ON THIS SHEET. TEMPORARY SEED AND MULCH SHOULD BE USED TO CONTROL ON-SITE EROSIO
IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PERMIT AND INSPECTION REQUIREMENTS OF THE VARIOUS GOVERNMENTAL AGENCIES. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION AND SCHEDULE INSPECTIONS ACCORDING TO AGENCY AND/OR MUNICIPALITY INSTRUCTIONS.	NOT PRACTICAL TO ESTABLISH PERMANENT VEGETATION. SOD SHALL BE PLACED AS EARLY AS POSSIBLE ON ALL SLOPES STEEPE (FT) HORIZONTAL TO 1 (FT) VERTICAL. SOD SHALL BE PINNED AS REQUIRED. ALL EROSION AND SEDIMENTATION CONTROL MEA BE MAINTAINED IN WORKING ORDER THROUGHOUT THE CONSTRUCTION PHASE. THE CONTRACTOR SHALL INSPECT AND REPAIR NECESSARY THE EROSION/SEDIMENTATION PROTECTION AT THE END OF EACH WORKING DAY.
IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH AND ENFORCE ALL APPLICABLE SAFETY REGULATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND SHALL PROVIDE BRACING, SHEETING OR SHORING	NOTE: EROSION/SEDIMENTATION CONTROL SHALL BE PLACED PRIOR TO SITE EXCAVATION AND SHALL REMAIN IN PLACE UNTIL S VEGETATION AND LANDSCAPING IS COMPLETE.
AS NECESSARY. TRENCHES SHALL BE KEPT DRY WHILE PIPES ARE BEING PLACED. DEWATERING SHALL BE USED AS REQUIRED, AND PERMITTED THROUGH LOCAL GOVERNMENTAL AGENCIES AND WATER MANAGEMENT DISTRICT PER CURRENT REGULATIONS AT THE SOLE COST OF THE CONTRACTOR.	B. ALL INLET STRUCTURES AND PIPE SHALL BE PROTECTED FROM SILTATION BY CONSTRUCTING INLET PROTECTION AS DEFINED BY OR IN THE FDOT STANDARDS. IF SILTATION OCCURS, THE CONTRACTOR IS RESPONSIBLE TO REMOVE SILTATION AS PART OF TH CONTRACT AT NO ADDITIONAL COST TO THE OWNER.
CONTRACTOR TO REVIEW GEOTECHNICAL REPORT AND BORINGS PRIOR TO BIDDING THE PROJECT AND FOLLOW OUTLINED CONSTRUCTION TECHNIQUES.	C. PERMANENT VEGETATIVE STABILIZATION SHALL BE APPLIED ON FINE GRADED SITES AS SOON AS PRACTICAL. TEMPORARY SEEDI BE EMPLOYED TO PREVENT EXPOSURE OF BARREN SOILS UNTIL PERMANENT VEGETATION CAN BE APPLIED.
THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING APPLICABLE TESTING WITH THE SERVICES OF AN APPROVED TESTING LABORATORY AND/OR SOILS ENGINEER, APPLICABLE REGULATORY AGENCIES, AND AS MAY BE FOUND IN THE ENGINEERING CONSTRUCTION DRAWINGS OR SPECIFICATIONS. CONTRACTOR TO VERIFY ALL TESTING WITH THE OWNER PRIOR TO COMMENCING CONSTRUCTION. UPON COMPLETION OF THE WORK, THE TESTING	D. ALL SLOPES 1:4 OR STEEPER REQUIRE LAPPED OR PEGGED SOD.
LABORATORY AND/OR SOILS ENGINEER MUST SUBMIT TO THE OWNER'S ENGINEER CERTIFICATIONS STATING THAT ALL REQUIREMENTS HAVE BEEN MET.	L. LEGION, SEDIMIENT AND FORBUTT CONTROL ARE THE RESPONSIBILITY OF THE CONTRACTOR. THESE DELINEATED MEASURES MINIMUM REQUIRED, WITH ADDITIONAL CONTROLS TO BE UTILIZED AS NEEDED, DEPENDENT UPON ACTUAL SITE CONDITIONS A CONSTRUCTION OPERATION.
INSTALL SILT FENCE PRIOR TO SITE DEMOLITION OR NEW SITE CONSTRUCTION. INSTALL SILT FENCE PER FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL AND PROVIDE TOE-IN. THE CONTRACTOR SHALL MAINTAIN THE SILT FENCE IN WORKING ORDER THROUGHOUT THE CONSTRUCTION PHASE. THE PROJECT SILT FENCE SHALL BE INSPECTED DAILY AND ANY CORRECTIVE MEASURES SHALL BE	F. ALL SYNTHETIC BALES, SILT FENCE, AND OTHER EROSION CONTROL MEASURES SHALL BE REMOVED AT THE COMPLETION OF THE
COMPLETED WITHIN 24 HOURS. THE CONTRACTOR SHALL CALL THE NATURE OPERATIONS DIVISION AT (352) 393-8171 FOR A TREE BARRICADE INSPECTION PRIOR TO BEGINNING ANY	<ol> <li>THE CONTRACTOR SHALL MAINTAIN IN HIS POSSESSION A COPY OF THE WATER MANAGEMENT DISTRICT CONSTRUCTION PERMIT. H RESPONSIBLE FOR ADHERENCE TO ALL CONDITIONS CONTAINED IN THE PERMIT.</li> <li>REOPOSED CROT SUSTAINED REPRESENT SINISUED RAVEMENT OR CROWNED SURFACE CRAEF UNUSES OTHERWISE NOTED ON REAMINED.</li> </ol>
CONSTRUCTION. THE CONTRACTOR IS TO PREPARE THE SITE PRIOR TO BEGINNING ACTUAL CONSTRUCTION IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.	<ol> <li>PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT OR GROUND SURFACE GRADE UNLESS OTHERWISE NOTED ON DRAWING</li> <li>CONTRACTOR SHALL SUBMIT FOR REVIEW TO THE OWNER AND OWNER'S ENGINEER SHOP DRAWINGS ON ALL PRECAST AND MANUFAL</li> <li>ITEMS TO BE USED ON THIS SITE FAIL UPE TO OPTAIN APPROVAL REFORE INSTALLATION MAY RESULT IN REMOVAL AND REFL.</li> </ol>
ALL DELETERIOUS MATERIAL (I.E. MUCK, PEAT, BURIED DEBRIS) IS TO BE EXCAVATED IN ACCORDANCE WITH THESE PLANS OR AS DIRECTED BY THE OWNER'S ENGINEER OR OWNER'S SOIL TESTING COMPANY. DELETERIOUS MATERIAL IS TO BE STOCKPILED AND REMOVED FROM THE SITE. EXCAVATED AREAS ARE TO BE BACKFILLED WITH APPROVED MATERIALS AND COMPACTED AS SHOWN ON THESE AREAS.	<ul> <li>THEMS TO BE USED ON THIS SITE. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEME CONTRACTOR'S EXPENSE. ENGINEER'S APPROVAL OF A SHOP DRAWING DOES NOT RELIEVE THE CONTRACTOR'S RESPONSIBILITY FOR PERFORMANCE OF THE ITEM.</li> <li>THE COST OF ALL TESTING OF COMPACTION AND OTHER REQUIRED TESTS SHALL BE PAID BY THE CONTRACTOR AND MADE AVAILABLE</li> </ul>
CONTRACTOR SHALL CLEAR AND GRUB ONLY THOSE PORTIONS OF THE SITE NECESSARY FOR CONSTRUCTION. DISTURBED AREAS SHALL BE SODDED, SEEDED, MULCHED, OR PLANTED WITH OTHER APPROVED LANDSCAPE MATERIAL, AS DIRECTED BY THESE PLANS, IMMEDIATELY FOLLOWING CONSTRUCTION PER LOCAL INSPECTOR.	<ul> <li>ENGINEER OF RECORD DURING SITE INSPECTIONS.</li> <li>6. GENERAL CONTRACTOR TO CONTACT ENGINEER OF RECORD AND THE OWNER REPRESENTATIVE 48 HOURS IN ADVANCE PRIOR TO BATTRENCHES FOR FIELD INSPECTION AND PRIOR TO LAYING ASPHALT FOR FIELD INSPECTION.</li> </ul>
WORK BEING PERFORMED UNDER THIS CONTRACT SHALL INTERFACE SMOOTHLY WITH OTHER WORK BEING PERFORMED ON THE SITE BY OTHER CONTRACTORS AND/OR UTILITY COMPANIES. IT WILL BE NECESSARY FOR THE CONTRACTOR TO COORDINATE AND SCHEDULE ITS ACTIVITIES, WHERE NECESSARY, WITH OTHER CONTRACTORS AND UTILITY COMPANIES.	7. CONTRACTOR IS TO SUBMIT CITY OF GAINESVILLE APPROVED ASPHALT DESIGN MIXES TO THE OWNER'S REPRESENTATIVE AND ENGIN RECORD BEFORE ANY WORK IS TO COMMENCE ON PROJECT. THE MIXTURE AT THE PLANT OR ON THE ROAD SHALL NOT EXCEED 335 THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AND PROVIDE TEMPERATURE READINGS PRIOR TO LAYING ASPHAL
ALL PAVEMENT DIMENSIONS SHOWN ARE TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED. THE GOVERNING STANDARDS AND SPECIFICATIONS. UNLESS STATED OTHERWISE SHALL BE PER FLORIDA DEPARTMENT OF TRANSPORTATION	8. AS DETERMINED NECESSARY AND DIRECTED BY CITY OF GAINESVILLE PUBLIC WORKS DEPARTMENT OR ENGINEER OF RECORD, THE CO SHALL UNDERCUT ALL UNSUITABLE MATERIAL 24 INCHES BELOW THE BOTTOM OF ANY PROPOSED LIMEROCK BASE, AND SHALL BACI
STANDARD PLANS (FY 2021-22 ROAD CONSTRUCTION), AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED JANUARY 2021, AS AMENDED BY CONTRACT DOCUMENTS. ALL MATERIALS AND METHODS SHALL MEET FDOT SPECIFICATIONS AND SHALL BE PRODUCED OR OBTAINED FROM AN FDOT APPROVED SOURCE.	<ul> <li>FILL MATERIAL MEETING FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. SEE FDOT INDEX 120-001 AND 1</li> <li>PROVIDE LEVEL PLATFORM IN FRONT OF ALL EGRESS DOORS. THE FLOOR SURFACE ON BOTH SIDES OF A DOOR SHALL BE AT THE SA ELEVATION OR AS SHOWN. THE FLOOR SURFACE OR LANDING ON EACH SIDE OF THE DOOR SHALL EXTEND FROM THE DOOR IN THE PLOOR SURFACE OR LANDING ON EACH SIDE OF THE DOOR SHALL EGRESS OF A DOOR IN THE FLOOR SURFACE OR LANDING ON EACH SIDE OF THE DOOR SHALL EXTEND FROM THE DOOR IN THE PLOOR SURFACE OR LANDING ON EACH SIDE OF THE DOOR SHALL EXTEND FROM THE DOOR IN THE PLOOR SURFACE OR LANDING ON EACH SIDE OF THE DOOR SHALL EGRESS OF A DOOR IN THE PLOOR SURFACE OR LANDING ON EACH SIDE OF THE DOOR SHALL EGRESS OF A DOOR IN THE PLOOR SURFACE OR LANDING ON EACH SIDE OF THE DOOR SHALL EGRESS OF A DOOR IN THE PLOOR SURFACE OR LANDING ON EACH SIDE OF THE DOOR SHALL EGRESS OF A DOOR IN THE PLOOR SURFACE OR LANDING ON EACH SIDE OF THE DOOR SHALL EGRESS OF A DOOR IN THE PLOOR SURFACE OR LANDING ON EACH SIDE OF THE DOOR SURFACE OR LAND</li></ul>
ALL NEW TRAFFIC CONTROL DEVICES (SIGNS AND PAVEMENT MARKINGS) SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND FDOT STANDARDS.	FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION.
ALL STRIPING WITHIN REPAVED AREAS OF THE CITY RIGHT OF WAY SHALL BE PLACED FIRST AS TEMPORARY STRIPING FOLLOWED BY APPLICATION OF THERMOPLASTIC STRIPING 30 DAYS LATER.	LANDINGS SHALL HAVE THE FOLLOWING FEATURES:
CONTRACTOR IS RESPONSIBLE FOR MAINTAINING PROPER BENCHMARKS ON-SITE. EXISTING BENCH MARKS SCHEDULED FOR REMOVAL SHALL BE RELOCATED AT CONTRACTORS EXPENSE AND RE-ESTABLISHED BY A LICENSED SURVEYOR.	<ul> <li>A. THE LANDING SHALL BE AT ELAST AS WIDE AS THE RAME KON ELADING TO TT.</li> <li>B. ALL LANDINGS ON RAMPS SHALL BE NOT LESS THAN 60" CLEAR, AND THE BOTTOM OF EACH RAMP SHALL HAVE NOT LESS THAN STRAIGHT AND LEVEL CLEARANCE</li> </ul>
ALL HANDICAP RAMPS SHALL COMPLY WITH THE FLORIDA ACCESSIBILITY CODE AND AMERICANS WITH DISABILITIES ACT. A PRE-CONSTRUCTION CONFERENCE MAY BE REQUIRED. THE CONTRACTOR, ENGINEER OF RECORD, AND THE OWNER SHALL MEET WITH THE CITY OF	C. IF RAMPS CHANGE DIRECTION AT LANDINGS, THE MINIMUM LANDING SIZE SHALL BE 60"X60". IF A RAMP RUN HAS A RISE GREAT OR A HORIZONTAL PROJECTION GREATER THAN 72" THEN IT SHALL HAVE HANDRAILS ON BOTH SIDES - HANDRAILS ARE NOT RE
GAINESVILLE PUBLIC WORKS DEPARTMENT PRIOR TO INITIATION OF SITE CONSTRUCTION IF REQUIRED. ANY CHANGE ORDER REQUESTS, SITE REVISIONS, AND PAY REQUESTS MUST BE SUBMITTED TO AND APPROVED BY THE ENGINEER OF RECORD.	CURB RAMPS. HANDRAILS ARE SHOWN ON THE ARCHITECTURAL PLAN.
CONTRACTOR IS RESPONSIBLE FOR ALL DEWATERING AS NEEDED THROUGHOUT ALL CONSTRUCTION ACTIVITIES COVERED BY THESE PLANS. DEWATERING SHALL BE DONE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS, 2018 EDITION, SECTION 120.	12. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING RECORD DRAWINGS AS NOTED IN NOTE #29 UNDER SITE GENERAL NOTES.
THE CONTRACTOR IS RESPONSIBLE FOR THE PERFORMANCE AND COST OF ALL CLEARING AND GRUBBING AND ALL WORK OF REMOVAL, DISPOSAL, AND REPAIR OR REPLACEMENT OF EXISTING IMPROVEMENTS WHERE SHOWN IN THE PLANS, OR ORDERED BY THE ENGINEER TO BE REMOVED, OR	13. ALL CONCRETE USED SHALL BE 3,000 PSI MINIMUM WITH FIBER OR AS SHOWN.
WHERE REQUIRED BECAUSE OF THE CONSTRUCTION OPERATIONS, IN ORDER TO CONSTRUCT THE PROPOSED IMPROVEMENTS (THIS INCLUDES BUT IS NOT LIMITED TO PROPOSED PIPING, STRUCTURES, UTILITIES, PAVING, CURBING, ETC.).	<ol> <li>ALL WELLS, CLEANOUTS, MANHOLE TOPS, FULL BOX COVERS AND OTHER OTHER THEIT AFFORTENANCES IN THE AREA OF REDEVELOPMEN PROTECTED AND TOPS ADJUSTED TO MATCH PROPOSED GRADES.</li> <li>CONTRACTOR SHALL SAW CUT, TACK, AND MATCH EXISTING RAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS ANY EXISTING</li> </ol>
AN AS-BUILT SURVEY IS REQUIRED BY THE SJRWMD. CONTRACTOR TO COORDINATE WITH PROJECT OWNER FOR COMPLETION OF AS-BUILT SURVEYS PRIOR TO PROJECT / PERMIT CLOSE-OUT.	<ol> <li>16. SOD SHALL BE PLACED AROUND ALL STRUCTURES AS DIRECTED BY FDOT INDEX 524-001 AND FDOT INDEX 425- AND 430- SERIES AS APPROPRIATE. ALL OTHER DISTURBED AREAS SHALL BE SEEDED AND MULCHED.</li> </ol>
	17. ALL STORM SEWER CURB AND DITCH BOTTOM INLETS SHALL CONFORM TO THE APPLICABLE FDOT INDEX. ALL DRAINAGE STRUCTUR GRATES THAT ARE LOCATED IN GRASSED AREAS SHALL H AVE THE GRATE CHAINED TO THE STRUCTURE USING AN EYE BOLT AND CH
	18. ALL CONCRETE STRUCTURES SHALL HAVE ALL EXPOSED EDGES CHAMFERED 3/4" AND CLASS I SURFACE FINISH.
	19. ALL HUPE FITTINGS AND CONNECTORS SHALL BE WATER TIGHT. SEE SPECIFICATIONS FOR MORE INFORMATION. 20. COMPACTION OF ALL MATERIALS SHALL BE LIMITED TO STATIC MODE ONLY, UNLESS DIRECTED OTHERWISE BY THE ENGINEER OF RE
	21. ALL RCP PIPE JOINTS SHALL BE WRAPPED WITH FILTER FABRIC IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION SECTION 430
MAINTENANCE OF TRAFFIC (MOT) NOTES	FLECTRIC SERVICE GENERAL NOTES
THE CONTRACTOR IS RESPONSIBLE FOR CREATING A MAINTENANCE OF TRAFFIC (MOT) PLAN FOR CONSTRUCTION ACTIVITY THAT OCCURS WITHIN THE PUBLIC RIGHT-OF-WAY, INCLUDING BUT NOT LIMITED TO SIDEWALK WORK AND ACTIVITIES THAT REQUIRE A LANE (OR ROAD) CLOSURE SUCH	Image: Control of the second
AS CONNECTION TO SEWER MANHOLES AND WATER MAINS. THE MOT PLAN MUST BE CREATED BY A REGISTERED PROFESSIONAL ENGINEER WHO IS CERTIFIED TO DO SO BY FDOT MOT CERTIFICATION TRAINING. THE MOT PLAN MUST ALSO BE IN ACCORDANCE WITH FDOT DESIGN STANDARDS, FDOT STANDARD SPECIFICATIONS, ACPWD SPECIFICATIONS, AND/OR CITY OF GAINESVILLE MOT REQUIREMENTS AND MUST BE REVIEWED AND APPROVED BY THE CITY OF GAINESVILLE (PHIL MANN) AND THE FLORIDA DEPARTMENT OF TRANSPORTATION (ROBBIE EMMONS), AS REQUIRED.	2. ELECTRIC DESIGN PROVIDED BY GRU ENERGY DELIVERY.
. THE CONTRACTOR SHALL SUBMIT THE MOT TO THE APPROPRIATE REGULATORY AUTHORITY PRIOR TO WORK REQUIRING THE MOT FOR	
APPROVAL. NO WORK IN THE ROW SHALL OCCUR UNTIL THE MOT IS APPROVED	

HE BUILDING DEPARTMENT AT (352)334-5050 FOR A DEMOLITION INSPECTION PRIOR TO ANY DEMOLITION ACTIVITIES. INTRACTOR SHALL BE RESPONSIBLE TO DISPOSE OF ALL DEMOLITION MATERIALS IN A SAFE AND LAWFUL MANNER. THE CONTRACTOR SALVAGE TO THE OWNER ANY ITEM AS DETERMINED BY THE OWNER. ONCE DEMOLISHED, MATERIAL SHALL BE DISPOSED OF PROPERLY MEDIATELY

/E ALL IMPROVEMENTS DEFINED ON THE DEMOLITION PLAN. SALVAGE ITEMS TO OWNER AS DEFINED BY THE OWNER'S REPRESENTATIVE ONSTRUCTION DOCUMENT SPECIFICATIONS

NG PAVEMENT AND SIDEWALK EDGES THAT BORDER NEW CONSTRUCTION OR DEMOLITION ARE TO BE SAW-CUT TO PROVIDE A SMOOTH

S LARGER THAN 1 INCH IN DIAMETER ON TREES TO BE PRESERVED THAT ARE ENCOUNTERED DURING CONSTRUCTION MUST BE CUT CLEANLY VERED OVER WITH SOIL BY THE END OF THE WORKING DAY.

PHALT AND LIMEROCK WILL BE COMPLETELY REMOVED FROM AREAS THAT WILL BE LANDSCAPED. IN PARTICULAR, AREAS WHERE ASPHALT REMOVED MUST HAVE THE TOP HARD SURFACE, LIMEROCK, AND COMPACTED SOIL REMOVED, REPLACEMENT SOIL SHALL BE CLEAN DEEP PH 5.5 - 6.5. THE DEPTH OF UNCOMPACTED SOIL PRIOR TO PLANTING MUST BE AT LEAST 3 FEET TO ACCOMMODATE FUTURE TREE ROOT TH. NO LIMEROCK, LARGE STONES, OR OTHER CONSTRUCTION DEBRIS CAN REMAIN IN AREAS TO BE LANDSCAPED.

# PAVING, GRADING, AND DRAINAGE GENERAL NOTES

NTRACTOR IS RESPONSIBLE FOR EROSION/SEDIMENTATION CONTROL PRACTICES DURING CONSTRUCTION TO MINIMIZE ON-SITE N/SEDIMENTATION AND TO PROTECT AGAINST DAMAGE TO OFF SITE PROPERTY. THE FOLLOWING PRACTICES SHALL BE EMPLOYED:

OSION AND SEDIMENTATION CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. AREAS OF OFF-SITE DISCHARGE DURING ONSTRUCTION SHALL BE PROTECTED WITH A SEDIMENT BARRIER PER FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL SPECTOR'S MANUAL TO PREVENT OFF-SITE DISCHARGE OF SEDIMENTS. A SILT BARRIER SHALL SPECIFICALLY BE REQUIRED, CONSTRUCTED D MAINTAINED AS INDICATED ON THIS SHEET. TEMPORARY SEED AND MULCH SHOULD BE USED TO CONTROL ON-SITE EROSION WHEN IT IS OT PRACTICAL TO ESTABLISH PERMANENT VEGETATION. SOD SHALL BE PLACED AS EARLY AS POSSIBLE ON ALL SLOPES STEEPER THAN 5 ) HORIZONTAL TO 1 (FT) VERTICAL. SOD SHALL BE PINNED AS REQUIRED. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL MAINTAINED IN WORKING ORDER THROUGHOUT THE CONSTRUCTION PHASE. THE CONTRACTOR SHALL INSPECT AND REPAIR AS CESSARY THE EROSION/SEDIMENTATION PROTECTION AT THE END OF EACH WORKING DAY.

INLET STRUCTURES AND PIPE SHALL BE PROTECTED FROM SILTATION BY CONSTRUCTING INLET PROTECTION AS DEFINED BY THESE PLANS IN THE FDOT STANDARDS. IF SILTATION OCCURS, THE CONTRACTOR IS RESPONSIBLE TO REMOVE SILTATION AS PART OF THE BASE NTRACT AT NO ADDITIONAL COST TO THE OWNER.

RMANENT VEGETATIVE STABILIZATION SHALL BE APPLIED ON FINE GRADED SITES AS SOON AS PRACTICAL. TEMPORARY SEEDING SHOULD EMPLOYED TO PREVENT EXPOSURE OF BARREN SOILS UNTIL PERMANENT VEGETATION CAN BE APPLIED.

OSION, SEDIMENT AND TURBIDITY CONTROL ARE THE RESPONSIBILITY OF THE CONTRACTOR. THESE DELINEATED MEASURES ARE THE NIMUM REQUIRED, WITH ADDITIONAL CONTROLS TO BE UTILIZED AS NEEDED, DEPENDENT UPON ACTUAL SITE CONDITIONS AND INSTRUCTION OPERATION.

SYNTHETIC BALES, SILT FENCE, AND OTHER EROSION CONTROL MEASURES SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT. ONTRACTOR SHALL MAINTAIN IN HIS POSSESSION A COPY OF THE WATER MANAGEMENT DISTRICT CONSTRUCTION PERMIT. HE SHALL BE

ACTOR SHALL SUBMIT FOR REVIEW TO THE OWNER AND OWNER'S ENGINEER SHOP DRAWINGS ON ALL PRECAST AND MANUFACTURED TO BE USED ON THIS SITE. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT ACTOR'S EXPENSE. ENGINEER'S APPROVAL OF A SHOP DRAWING DOES NOT RELIEVE THE CONTRACTOR'S RESPONSIBILITY FOR THE MANCE OF THE ITEM

OST OF ALL TESTING OF COMPACTION AND OTHER REQUIRED TESTS SHALL BE PAID BY THE CONTRACTOR AND MADE AVAILABLE TO THE EER OF RECORD DURING SITE INSPECTIONS.

AL CONTRACTOR TO CONTACT ENGINEER OF RECORD AND THE OWNER REPRESENTATIVE 48 HOURS IN ADVANCE PRIOR TO BACKFILLING HES FOR FIELD INSPECTION AND PRIOR TO LAYING ASPHALT FOR FIELD INSPECTION.

RACTOR IS TO SUBMIT CITY OF GAINESVILLE APPROVED ASPHALT DESIGN MIXES TO THE OWNER'S REPRESENTATIVE AND ENGINEER OF RD BEFORE ANY WORK IS TO COMMENCE ON PROJECT. THE MIXTURE AT THE PLANT OR ON THE ROAD SHALL NOT EXCEED 335 DEGREES. ONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AND PROVIDE TEMPERATURE READINGS PRIOR TO LAYING ASPHALT

ERMINED NECESSARY AND DIRECTED BY CITY OF GAINESVILLE PUBLIC WORKS DEPARTMENT OR ENGINEER OF RECORD, THE CONTRACTOR UNDERCUT ALL UNSUITABLE MATERIAL 24 INCHES BELOW THE BOTTOM OF ANY PROPOSED LIMEROCK BASE, AND SHALL BACKFILL WITH TERIAL MEETING FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. SEE FDOT INDEX 120-001 AND 120-002.

E LEVEL PLATFORM IN FRONT OF ALL EGRESS DOORS. THE FLOOR SURFACE ON BOTH SIDES OF A DOOR SHALL BE AT THE SAME TION OR AS SHOWN. THE FLOOR SURFACE OR LANDING ON EACH SIDE OF THE DOOR SHALL EXTEND FROM THE DOOR IN THE CLOSED ON A DISTANCE EQUAL TO THE DOOR WIDTH AND SHALL COMPLY WITH SECTION 4.13.6 MANEUVERING CLEARANCES AT DOORS OF THE DA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION.

SHALL HAVE LEVEL LANDINGS AT THE BOTTOM AND TOP OF EACH RAMP RUN. CURB RAMPS ARE NOT REQUIRED TO HAVE LANDINGS. NGS SHALL HAVE THE FOLLOWING FEATURES:

LANDINGS ON RAMPS SHALL BE NOT LESS THAN 60" CLEAR. AND THE BOTTOM OF EACH RAMP SHALL HAVE NOT LESS THAN 72" OF RAIGHT AND LEVEL CLEARANCE.

AMPS CHANGE DIRECTION AT LANDINGS, THE MINIMUM LANDING SIZE SHALL BE 60"X60". IF A RAMP RUN HAS A RISE GREATER THAN 6" A HORIZONTAL PROIECTION GREATER THAN 72" THEN IT SHALL HAVE HANDRAILS ON BOTH SIDES. HANDRAILS ARE NOT REOUIRED ON IRB RAMPS. HANDRAIIS ARF SHOWN ON THF ARCHITECTURAL PLAN.

ELLS, CLEANOUTS, MANHOLE TOPS, PULL BOX COVERS AND OTHER UTILITY APPURTENANCES IN THE AREA OF REDEVELOPMENT SHALL BE TED AND TOPS ADJUSTED TO MATCH PROPOSED GRADES.

ACTOR SHALL SAW CUT, TACK, AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS ANY EXISTING PAVEMENT. HALL BE PLACED AROUND ALL STRUCTURES AS DIRECTED BY FDOT INDEX 524-001 AND FDOT INDEX 425- AND 430- SERIES AS PRIATE. ALL OTHER DISTURBED AREAS SHALL BE SEEDED AND MULCHED.

ORM SEWER CURB AND DITCH BOTTOM INLETS SHALL CONFORM TO THE APPLICABLE FDOT INDEX. ALL DRAINAGE STRUCTURES WITH THAT ARE LOCATED IN GRASSED AREAS SHALL H AVE THE GRATE CHAINED TO THE STRUCTURE USING AN EYE BOLT AND CHAIN.

### **ELECTRIC SERVICE GENERAL NOTES**

LECTRICAL UTILITIES AND INFORMATION SHOWN ON THE CIVIL PLANS ARE FOR LOCATION AND COORDINATION PURPOSES ONLY. REFER TO RICAL PLANS BY OTHERS FOR THE ELECTRICAL DESIGN AND DETAILS.

## **GRU UTILITY NOTES**

- 1. NO OTHER UTILITY PERMITS ARE REQUIRED OTHER THAN GRU.
- STANDARDS.
- 4. POTABLE WATER AND WASTEWATER MAINS SHALL MAINTAIN A MINIMUM 10 FEET HORIZONTAL AND 1.5 FOOT VERTICAL SEPARATION.
- HORIZONTAL SEPARATION DISTANCES FOR PARALLEL AND PERPENDICULAR CLEARANCE FROM OTHER OBJECTS TABLE.)
- WARRANTY
- SADDLE OR TAPPED TEE.
- CITY OF GAINESVILLE LIMITS). TRACER WIRE INSTALLED ON PVC WATER MAINS SHALL CONTINUE ACROSS THE CLDIP SECTIONS.
- 10. ANCHOR TEES, ANCHOR COUPLINGS (SOLID X SWIVEL), AND ANCHOR BENDS (SWIVEL X SWIVEL) SHALL BE USED ON ALL FIRE HYDRANT ASSEMBLIES.

- 13. ALL WASTEWATER CLEANOUT COVERS SHALL BE RATED FOR TRAFFIC LOAD BEARING.
- BACKWATER VALVE (BWV) WITH SEWER RELIEF VALVE IS REOUIRED ON THE CUSTOMER SIDE OF THE CLEANOUT.

MINIMUM CLEARANCE OF 3' SHALL BE MAINTAINED BETWEEN THE MAIN AND THE TRANSFORMER 17. CONTACT GRU GAS, ERIC WILLIAMS, (352)393-1466, 72 HOURS IN ADVANCE OF DEMOLITION AND CONSTRUCTION ACTIVITIES.

18. MAINTAIN MINIMUM 36" COVER OVER THE GAS MAINS DURING ALL PHASES OF CONSTRUCTION.

20. ALL BACKFLOW PREVENTERS NEED TO BE TESTED BY AN INDEPENDAN

1. ALL WORK WITHIN OR ON CITY OWNED OR MAINTAINED FACILITIES, ROW OR EASEMENT WILL REQUIRE AS-BUILT PLANS. AS-BUILT PLANS SHOULD SHOW THE CONSTRUCTION CONDITIONS OF THE CITY OWNED OR MAINTAINED ARE AND BE PERFORMED BY A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER. THE CONTRACTOR SHALL PROVIDE THE CITY WITH AN AS-BUILT SURVEY OF THE RETENTION/DETENTION BASIN AND ASSOCIATED STRUCTURES, PREPARED BY A REGISTERED LAND SURVEYOR. THE SURVEY SHALL BE SUBMITTED ON PAPER COPY AND ELECTRONICALLY (.PDF AUTODESK CAD) ANY CONSTRUCTION IN THE CITY OF GAINESVILLE PUBLIC ROW WILL REQUIRE PERMITS FROM THE PUBLIC WORKS DEPARTMENT PRIOR TO BEGINNING WORK.

2. A MOT PERMIT IS REQUIRED FOR ANY ACTIVITY IN THE ROW THAT EITHER DIRECTLY OR INDIRECTLY AFFECTS VEHICULAR OR PEDESTRIAN TRAFFIC.

3. OPEN CUT RESTORATION SHALL BE PERFORMED IN ACCORDANCE WITH FDOT INDEX 307, AND USING THE FLOWABLE FILL OPTION. ALL BACKFILL WITHIN THE CITY ROW SHALL AT A MINIMUM COMPLY WITH FDOT SPECIFICATION 120 AND FDOT STANDARD PLANS 120-001 AND 125-001. ALL REOUIRED BACKFILL WITHIN THE ROW SHALL BE DOCUMENTED WITHIN A FDOT TYPE DENSITY LOG BOOK, COMPILED AND MAINTAINED BY THE CONTRACTOR, AND AVAILABLE FOR REVIEW BY THE PUBLIC WORKS INSPECTOR AT ALL TIMES AND IMMEDIATELY UPON REQUEST. THE LOG BOOK WILL BE PREPARED AND REVIEWED FOR COMPLIANCE TO SPECIFICATIONS BY CITY STAFF PRIOR TO ANY FARTHWORK STARTING, IT WILL CONTAIN PROCTORS, LBRS, SOIL CLASSIFICATIONS, FTC AS REQUIRED BY SPECIFICATION, THE LOG BOOK SHALL BE SIGNED AND SEALED BY THE ENGINEER AND TURNED OVER TO THE PW DEPARTMENT FOR REVIEW AND ACCEPTANCE AS PART OF THE CLOSEOUT DOCUMENTS.

4. NO PRIVATE INFRASTRUCTURE INCLUDING BUT NOT LIMITED TO FOOTERS. BEAMS. PADS. STRUCTURAL COMPONENTS. CONDUITS. PIPING. WIRING OR SIMILAR WILL BE ED WITHIN THE ROW. PRIOR TO ANY PLACEMENT OF SUCH COMPONENTS THE ROW WILL BE R FLORIDA AND LAYOUT OF THE UNDERGROUND INFRASTRUCTURE SHALL BE INSPECTED AND VERIFIED TO BE CLEAR OF ANY ENCROACHMENTS BY PUBLIC WORKS INSPECTION STAFF. FAILURE TO DO SO SHALL BE DEEMED UNPERMITTED AS DESCRIBED AND REGULATED BY OBSTRUCTION OF RIGHT-OF-WAY: CITY OF GAINESVILLE CODE OF ORDINANCES, ARTICLE V. - PUBLIC RIGHTS-OF-WAY OBSTRUCTIONS AND / OR OBSTRUCTION OF RIGHT-OF-WAY: CITY OF GAINESVILLE CODE OF ORDINANCES, ARTICLE V. - PUBLIC RIGHTS-OF-WAY OBSTRUCTIONS.

5. ALL REQUIRED BACKFILL WITHIN THE ROW SHALL BE DOCUMENTED WITHIN A FDOT TYPE DENSITY LOG BOOK, TECHNICIAN MUST HAVE AT LEAST EARTHWORK LEVEL 1, COMPILED AND MAINTAINED BY THE CONTRACTOR. AND AVAILABLE FOR REVIEW BY THE PUBLIC WORKS INSPECTOR AT ALL TIMES AND IMMEDIATELY UPON REOUEST. THE LOG BOOK WILL BE PREPARED AND REVIEWED FOR COMPLIANCE TO SPECIFICATIONS BY CITY STAFF PRIOR TO ANY EARTHWORK STARTING. IT WILL CONTAIN PROCTORS, LBRS, SOIL CLASSIFICATIONS, ETC AS REQUIRED BY SPECIFICATION. THE LOG BOOK SHALL BE SIGNED AND SEALED BY THE ENGINEER AND TURNED OVER TO THE PW DEPARTMENT FOR REVIEW AND ACCEPTANCE AS PART OF THE CLOSEOUT DOCUMENTS

6. IF ANY DEWATERING WILL NEED TO LEAVE THE SITE AT ANY TIME MUST BE APPROVED BY PRIOR TO STARTING

7. ALL CONCRETE POURED IN THE CITY ROW MUST BE AN FDOT APPROVED 3000 PSI MK WITH FIBER ALL CONCRETE MIX DESIGNS WILL BE SUBMITTED TO PW PRIOR TO PLACEMENT FOR REVIEW.

# **CONSTRUCTION SEQUENCE AND POLLUTION REDUCTION NOTES**

#### **I. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES**

- RE PROTECTED IN ACCORDANCE WITH FOOT INDEX NO 102 AND THESE PLANS

- 4. THE PROPOSED STORMWATER MANAGEMENT FACILITY(S) SHALL BE CONSTRUCTED.
- CONTRACTOR SHALL DISPOSE OF ALL UNSUITABLE MATERIAL ON-SITE OR OFF-SITE TO A PERMITTED LOCATION.
- 7. THE PERMANENT ROADWAYS/DRIVEWAYS SHALL BE ROUGHLY GRADED.
- THE ASSOCIATED STORMWATER MANAGEMENT FACILITY(S).
- ASPHALT
- SEDIMENT
- AND OTHER EROSION CONTROL APPLICATIONS.

#### **II. CONTROLS TO REDUCE POLLUTION**

AS OUTLINED IN THE ST. IOHNS RIVER WATER MANAGEMENT DISTRICT (SIRWMD) PERMIT. ALL CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED IN A MANNER AS TO NOT VIOLATE STATE WATER QUALITY STANDARDS. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES REQUIRED TO RETAIN SEDIMENT ON-SITE. IF SITE CONDITIONS ARE SUCH THAT ADDITIONAL CONTROL MEASURES ARE REQUIRED OTHER THAN WHAT IS SPECIFIED IN THE PLANS, THEN THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL BEST MANAGEMENT PRACTICES. THESE MEASURES MUST BE INSPECTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PHASE AND UNTIL AS DIRECTED BY THESE PLANS

**III. MAINTENANCE** 

THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE. INSPECTION SCHEDULE. AND REPAIRS OF THE SYSTEM. MAINTENANCE SHALL CONTINUE THROUGHOUT THE PROJECT UNTIL WORK IS COMPLETE. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER CONSTRUCTION IS COMPLETE. THE CONTRACTOR SHALL INITIATE ANY REPAIRS WITHIN 24 HOURS OF BEING REPORTED. IN THE EVENT THAT THE SMF(S) DO NOT PERFORM PROPERLY OR IF A SINKHOLE DEVELOPS, THE PROJECT ENGINEER SHALL BE NOTIFIED TO ASSIST IN COORDINATING REMEDIAL ACTION. ACCUMULATED SEDIMENT SHALL BE REMOVED FROM SILT FENCING WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE SILT FENCE. UPON FINAL COMPLETION OF CONSTRUCTION AND ACCEPTANCE BY BOTH THE CITY AND OWNER, THE OPERATION AND MAINTENANCE ENTITY WILL BE "CITY OF GAINESVILLE WILD SPACES & PUBLIC PLACES".

PERVIOUS PAVEMENT (DECORATIVE CONCRETE) SHALL NOT BE USED FOR MATERIAL STORAGE AT ANY TIME. PAVEMENT SURFACE SHALL BE PROTECTED FROM ANY SEDIMENTATION OR TRACKING. ANY DEPOSITS SHALL BE REMOVED BY VACUUM TRUCK ONLY.

2. THE UTILITY PLAN AND PLAT SHOWS ALL PUBLIC UTILITY EASEMENTS (PUE'S) IN A METES AND BOUNDS FORMAT. UPON GRU'S APPROVAL OF PLANS FOR DEVELOPMENTS NOT BEING PLATTED, OWNER MAY CHOOSE TO GRANT THE METES AND BOUNDS EASEMENTS AS SHOWN, OR A BLANKET EASEMENT OVER THE ENTIRE PROPERTY, PROVIDED FACILITIES ARE INSTALLED WITHIN THE PRESCRIBED DISTANCES AS SHOWN ON THE UTILITY PLANS AND IN ACCORDANCE WITH THE UTILITY SEPARATION REQUIREMENTS TABLE IN APPENDIX C OF THE GRU W/WW/RCW DESIGN

3. ALL CONSTRUCTION MATERIALS AND METHODS FOR POTABLE WATER, WASTEWATER, AND RECLAIMED WATER SYSTEMS SHALL BE IN CONFORMANCE TO GRU'S MOST RECENT POTABLE WATER, WASTEWATER, & RECLAIMED WATER SYSTEM DESIGN STANDARDS, CONSTRUCTION DETAILS, CONSTRUCTION STANDARDS, AND APPROVED MATERIALS MANUAL

5. A MINIMUM HORIZONTAL SEPARATION OF 10 FEET FOR POTABLE WATER MAINS, WASTEWATER FORCE MAINS, AND RECLAIMED WATER MAINS, AND 15 FEET FOR GRAVITY WASTEWATER MAINS SHALL BE PROVIDED AND MAINTAINED FROM BUILDINGS. TRANSFORMERS. AND ALL PERMANENT STRUCTURES. SERVICE LATERALS REQUIRE 5 FEET LESS CLEARANCE FOR EACH OF THE UTILITIES; PROVIDED THAT WATER SERVICE LATERALS ARE INSTALLED INSIDE 3" SLEEVES. SEPARATION FROM TREES IS REDUCED TO 7.5' FOR PRESSURIZED MAINS AND SERVICES AND 10' (MINIMUM) FOR GRAVITY MAINS AND SERVICES. (SEE APPENDIX C OF GRU'S DESIGN STANDARDS AND CONSTRUCTION DETAILS FOR POTABLE WATER, WASTEWATER, AND RECLAIMED WATER

6. POTABLE WATER SERVICES SHALL BE PROVIDED TO EACH LOT, BUILDING, OR PARCEL REQUIRING A SEPARATE WATER METER. FOR COMMERCIAL, MULTIFAMILY, AND INSTITUTIONAL DEVELOPMENTS, THE DEVELOPER SMALL DE RESPONSIBLE FOR INSTALLING POTABLE WATER SERVICES AND YOKE ASSEMBLY PACKAGE UP TO AND INCLUDING THE METER YOKE, BOX (INSTALLED AT FINAL GRADE), LOCATE WIRE, AND ASSOCIATED APPURTENANCES, FOR METERS 1" AND SMALLER (SEE GRU W/WW/RCW CONSTRUCTION DETAIL W - 8.0), WITH A ONE-YEAR

7. 2" VALVES SHALL BE GRU APPROVED CAST IRON, RESILIENT SEAT GATE VALVES WITH STANDARD 2" OPERATING NUT, THREADED WITH BRASS NIPPLE BETWEEN THE VALVE AND TAPPING

8. WATER MAINS 4" IN DIAMETER AND GREATER, PLACED UNDER ROADWAYS, SHALL BE CEMENT LINED DUCTILE IRON PIPE (CLDIP) EXTENDING 5 FEET PAST THE BACK OF CURB (3 FEET WITHIN

9. 1" OR 2" WATER SERVICE CROSSINGS LOCATED UNDER ROADWAYS SHALL BE ENCASED IN 3" SCH 40 PVC EXTENDING 5' PAST THE BACK OF CURB (3 FEET INSIDE CITY OF GAINESVILLE LIMITS).

11. ALL PRESSURIZED MAIN FITTINGS AND VALVES SHALL BE MECHANICAL JOINT WITH RESTRAINED JOINT GLANDS; A SUFFICIENT LENGTH OF THE PUSH-ON PIPE CONNECTED TO THE FITTINGS SHALL BE MECHANICALLY RESTRAINED TO PROVIDE REACTION AS SPECIFIED ON THE RESTRAINED JOINT STANDARD IN THE CONSTRUCTION DETAILS OF THE GRU STANDARDS (W - 2.8 & 2.9, RCW - 2.8 & 2.9, AND WW - 2.4 & 2.5). CALCULATIONS FOR REQUIRED RESTRAINT LENGTH MUST BE PROVIDED IF THE SPECIFIED RESTRAINT LENGTH, DUE TO SOIL TYPE OR DEPTH OF COVER, DIFFERS FROM THOSE PROVIDED ON THESE DETAILS. RESTRAINED LENGTH MUST BE INDICATED ON THE PLANS.

12. ALL SANITARY WASTEWATER SERVICE LATERALS SHALL BE MIN. 4" DIAMETER PVC (SDR 26 PIPE AND FITTINGS) AT 1.00% MIN. SLOPE UNLESS OTHERWISE LABELED.

14. MANHOLES WHICH ARE NOT INSTALLED UNDER PAVEMENT SHALL HAVE A RIM ELEVATION AT LEAST 6" ABOVE FINISHED GRADE, AND A 10:1 SODDED SLOPE DOWN TO FINISHED GRADE. 15. THE FINISHED FLOOR ELEVATIONS OF BUILDINGS SHALL BE A MINIMUM OF 6" ABOVE THE LOWEST UPSTREAM MANHOLE TOP. IF THIS IS INFEASIBLE, A WASTEWATER SERVICE LATERAL

16. WHEN A POTABLE OR RECLAIMED WATER MAIN, OR A WASTEWATER FORCE MAIN IS ROUTED WITHIN 10 FT. OF AN ELECTRIC TRANSFORMER, A 20 FT. LENGTH OF CLDIP SHALL BE CENTERED ON THE TRANSFORMER WITH MECHANICAL RESTRAINT AT EACH END. NO FITTINGS, PIPE JOINTS, OR VALVES SHALL OCCUR WITHIN 10 FT. OF THE NEAREST EDGE OF THE TRANSFORMER. A

PRIOR TO CONSTRUCTION, SILT FENCING AND TREE PROTECTION FENCING SHALL BE INSTALLED AND ALL EXISTING STORM DRAINAGE SWALE AND INLETS SHALL

2. THE CONSTRUCTION SERVICE ENTRANCE SHALL BE STABILIZED TO MINIMIZE THE CREATION OF DUST AND OFF-SITE TRACKING OF SEDIMENTS.

3. ONLY THE AREA COMPRISING THE PROPOSED STORMWATER MANAGEMENT FACILITY(S) SHALL BE CLEARED AND GRUBBED OF UNWANTED VEGETATION.

5. IF SUITABLE. THE EXCAVATED SOIL FROM THE FACILITY(S) MAY BE USED AS FILL FOR ON-SITE GRADING THAT IS DEPICTED IN THESE CONSTRUCTION PLANS. THE

6. THE REMAINING PORTION OF THE SITE THAT IS TREATED BY THE CONSTRUCTED STORMWATER MANAGEMENT FACILITY(S) SHALL BE CLEARED AND GRUBBED.

8. THE UNDERGROUND UTILITIES INFRASTRUCTURE AND STORMWATER PIPING SYSTEM SHALL BE INSTALLED. ANY DE-WATERING (PUMPED) SHALL BE DIVERTED TO

9. THE PERMANENT ROADWAY/DRIVEWAY SUBGRADE SHALL BE COMPACTED, A LIMEROCK BASE SHALL BE ESTABLISHED, AND THEN FOLLOWED BY AN OVERLAY OF

10. UPON SIGNIFICANT COMPLETION OF CONSTRUCTION, THE STORMWATER PIPING SYSTEM SHALL BE FLUSHED OUT TO REMOVE ACCUMULATED DEBRIS AND

11. ALL REMAINING DISTURBED AREAS WITHIN THE CONSTRUCTION AREA SHALL BE COMPLETELY GRASSED AND/OR LANDSCAPED ACCORDING TO THESE PLANS. GRASS SEEDING RATES AND MIXTURES SHALL BE PER THE FDOT INDEX NO. 104. EVIDENCE OF GROWTH MUST BE PRESENT PRIOR TO REMOVAL OF SILT FENCING



# **ABBREVIATIONS**

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	SYMBOLS FFFT (WHEN USED WITH I ENGTHS)	N	N NORTH
٠	DEGREES	N-E	NORTHING - EASTING
'	MINUTES (WHEN USED WITH ANGLES)	N/A	NOT APPLICABLE
%	SECONDS PERCENT	NGVD	NATIONAL GEODETIC VERTICAL DATUM OF
@	ΑΤ		1929
	۵	NO NPDES	NUMBER NATIONAL POLLUTANT DISCHARGE
AASHTO	ASSOCIATION OF STATE HIGHWAY AND		ELIMINATION SYSTEM
AC	TRANSPORTATION OFFICIALS	NTS	NOT TO SCALE
AC ADA	ACKES AMERICAN WITH DISABILITIES ACT		0
ANSI	AMERICAN NATIONAL STANDARDS	OC OHW	ON CENTER
ARCH	ARCHITECT	ORB	OVERHEAD WIKE OFFICIAL RECORDS BOOK
ARV	AIR RELEASE VALVE	OSHA	OCCUPATIONAL SAFETY AND HEALTH
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS		ADMINISTRATION
AWWA	AMERICAN WATER WORKS ASSOCIATION		Р
	B	PAVT PC	PAVEMENT POINT OF CURVATURE
ВС	BACK OF CURB	PCC	POINT OF COMPOUND CURVE
BFP	BACKFLOW PREVENTER	PE	POLYETHYLENE
BLDG BM	BUILDING RENCHMARK	PERF	PERFORATED PROPOSED
BMP	BEST MANAGEMENT PRACTICE	PT	POINT OF TANGENCY
BOC	BACK OF CURB	PVC	POLYVINYL CHLORIDE
BVCS BVCE	BEGIN VERTICAL CURVE STATION BEGIN VERTICAL CURVE ELEVATION	PUE PVI	POBLIC UTILITY EASEMENT POINT OF VERTICAL INTERSECTION
BW	BOTTOM OF WALL		
BSL	BUILDING SETBACK LINE	D	R
	С	RCP	REINFORCED CONCRETE PIPE
CATV	CABLE TELEVISION	RPM	RAISED REFLECTIVE PAVEMENT MARKER
CI	CURB INLET	RPZ PT	REDUCED PRESSURE ZONE
CLDIP	CEMENT LINE DUCTILE IRON PIPE	RWM	RECLAIMED WATER MAIN
СМР	CORRUGATED METAL PIPE	R/W	RIGHT-OF-WAY
CONC	CLEANOUT CONCRETE		5
COORD	COORDINATE	S	SOUTH
CR	COUNTY ROAD	SAN	SANITARY
С/О	CLEANOUT	SHWE	SEASONAL HIGH WATER ELEVATION
	D	Sr SL	SLOPE
DBH	DIAMETER AT BREAST HEIGHT	SP	SUPERPAVE
DE	DRAINAGE EASEMENT	SR SS	STATE ROAD
DEG DIA	DIAMETER	SS ST	SANITART SEWER STORM
DIP	DUCTILE IRON PIPE	STA	STATION
DWG	DRAWING	STD	STANDARD
	Ε		т
e	RATE OF ELEVATION	ТВ	TREE BARRICADE
E FA	EAST FACH	ТСЕ ТЕМР	TEMPORARY CONSTRUCTION EASEMENT
EL	ELEVATION	тов	TOP OF BANK
ELEV	ELEVATION	TV	TELEVISION
EOP FOR	EDGE OF PAVEMENT ENGINEER OF RECORD	TW TYP	TOP OF WALL TYPICAI
ERCP	ELLIPTICAL REINFORCED CONCRETE PIPE		
ESMT			
EVCS EVCE	END VERTICAL CURVE STATION FND VERTICAL CURVE FLEVATION	USF USGS	UNITED STATES FOUNDRY UNITED STATES GEOLOGICAL SURVEY
EX	EXISTING	UTIL	UTILITY
	E		V
FAC	FLORIDA ADMINISTRATIVE CODE	V	VERTICAL
FBR	FLORIDA BEARING RATIO	VC	VERTICAL CURVE
FC FDFP	FRICTION COURSE ELORIDA DEPARTMENT OF ENVIRONMENTAL	VCP	VITRIFIED CLAY PIPE
1021	PROTECTION		W
FDOT		W	WEST
FH	FIRE HYDRANT	W/	WATER WITH
FHWA	FLORIDA HIGHWAY ADMINISTRATION	ŴМ	WATER MAIN
FIG FM	FIGURE FORCE MAIN	WW W/W/E	WASTEWATER
FOC	FACE OF CURB	VV VV F	WELDED WINE I ADNIC
FS	FLORIDA STATUTES		
FT	FEEI		
	G		
GALV	GALVANIZED GAS MAIN		
GV	GATE VALVE		
HDPF	H HIGH DENSITY POI YETHYI ENE		
HP	HIGH POINT		
	1		
ID	IDENTIFICATION		
INV	INVERT		
INV EL IP	INVERT ELEVATION		
V			
ĸ	VERTICAL CURVE RATE OF CHANGE		
	L		
L	LENGTH		
LA LBR	LIMEROCK BEARING RATIO		
LDR	LAND DEVELOPMENT REGULATION		
LF	LINEAR FEET		
LP LT	LEFT		
ΜΔΥ	M MAXIMI M		
ME	MATCH EXISTING		
МН	MANHOLE		
MIN MISC	MINIMUM MISCELLANFOUS		
MJ	MECHANICAL JOINT		
Μυτር	MANUAL ON UNIFORM TRAFFIC CONTROL		
	DLVICES		



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SIGNAGE	SITE INFORMATION	<b>STORMWATER</b>	WASTEWATER	515 76 75
FDOT SPECIFICATIONS OR PER MUTCD. SIGN STALLATION SHALL BE PER FDOT INDEX NO.	EX. PROPERTY LINE	THE PROPOSED STORMWATER STRUCTURES DEPICTED BELOW ARE DRAWN PER FDOT SPECIFICATIONS AND TO SCALE WHEN SHOWN ON THE PLAN SHEETS.	WW WW EX. GRAVITY WASTEWATER MAIN	Cch Dr. 331-19 331-19 26-50 26-50
PLACEMENT SHALL BE PER FDOT INDEX NO.		ST       ST       EX. GRAVITY STORMWATER MAIN         PROPOSED CRAVITY STORMWATER MAIN (PIPE LENCTHS ARE		chw-
FTP-20-06 (12" X 18") PER FDOT INDEX NO.	BUILDING SETBACK LINE	FROM N-E LOCATION OF A STRUCTURE TO N-E LOCATION OF A STRUCTURE)	FM FM EX. WASTEWATER FORCE MAIN	01 Re 01 Re (3 00 WW
700-102	· WETLAND SETBACK LINE		P-FM PROPOSED WASTEWATER FORCE MAIN	118( Alach
	CENTER LINE	N-E LOCATION N-E LOCATION TOP/GRATE ELEV. LOCATION	N-E LOCATION STEWATER MANHOLE RIM ELEV. LOCATION RIM ELEV. LOCATION	
R1-1 "STOP" - SEE PLANS FOR SIZE	EASEMENT LINE · RIGHT-OF-WAY LINE	N-E LOCATION TOP/GRATE FLEV. LOCATION	<ul> <li>EX. WASTEWATER CLEANOUT</li> </ul>	
	SF SILT FENCE LINE	N-E LOCATION	• PROPOSED WASTEWATER CLEANOUT	
	TB TB TB TREE BARRICADE LINE	TOP ELEV. LOCATION PROPOSED TYPE 1 CURB INLET TOP PER FDOT INDEX NO. 425-020 (SEE PLANS FOR BOTTOM SPECIFICATION)		
		N-E LOCATION TOP ELEV. LOCATION PROPOSED TYPE 2 CURB INLET TOP PER FDOT INDEX NO.	MH# PROPOSED WAS TEWATER MANHOLE ID 11.25° BEND W/ MECHANICALLY RESTRAINED	onsult
	EX. STRUCTURE OR BUILDING	425-020 (SEE PLANS FOR BOTTOM SPECIFICATION)	22.5" BEND W/ MECHANICALLY RESTRAINED	
	PROPOSED BUILDING	TOP ELEV. LOCATION TOP ELEV. LOCATION PROPOSED TYPE 3 CURB INLET TOP PER FDOT INDEX NO. 425-020 (SEE PLANS FOR BOTTOM SPECIFICATION)	JOINTS (WW FORCE MAIN) م 45° BEND W/ MECHANICALLY RESTRAINED	ofessic
	PROPOSED ASPHALTIC PAVEMENT	N-E LOCATION TOP ELEV. LOCATION PROPOSED TYPE 4 CURB INLET TOP PER FDOT INDEX NO.	JOINTS (WW FORCE MAIN) ت 90° BEND W/ MECHANICALLY RESTRAINED	
	PROPOSED CONCRETE PAVEMENT	425-020 (SEE PLANS FOR BOTTOM SPECIFICATION)	JOINTS (WW FORCE MAIN)	
	Image: Source of the second	TOP ELEV. LOCATION N=E LOCATION N=E LOCATION PROPOSED TYPE 5 CURB INLET TOP PER FDOT INDEX NO. 425-021 (SEE PLANS FOR BOTTOM SPECIFICATION)	JOINTS (WW FORCE MAIN) K. PLUG VALVE AND BOX (WW FORCE MAIN)	
	DIRECTIONAL TRAFFIC ARROW PER FDOT INDEX NO. 17346	TOP ELEV. LOCATION PROPOSED TYPE 6 CURB INLET TOP PER FDOT INDEX NO. 425.021 (SEE PLANS FOR BOTTOM SPECIFICATION)	PROPOSED PLUG VALVE AND BOX (WW FORCE MAIN)	ON NG ON LSL
		N-E LOCATION N-E LOCATION TOP/GRATE ELEV. LOCATION PROPOSED TYPE 9 CURB INLET TOP PER EDOT INDEX NO	⊖ EX. AIR RELEASE VALVE (WW FORCE MAIN)	Y SCALE VE INCH L DRAWI L DRAWI ET, ADJU CORDIN
	WATERSHED DIVIDE	425-024 (SEE PLANS FOR BOTTOM SPECIFICATION)	PROPOSED AIR RELEASE VALVE (WW FORCE MAIN)	N/A VERIF AR IS ON PRIGINAI FILS SHE AL FS ACC
	- $     -$ EX. ELEVATION CONTOUR	N-E LOCATION TOP/GRATE ELEV. LOCATION PROPOSED TYPE 'C' DITCH BOTTOM INLET TOP PER FDOT INDEX NO. 425-052 (SEE PLANS FOR GRATE MATERIAL AND	MISCELLANEOUS UTILITIES	B B B CALE:
	99 PROPOSED CONTOUR	BOTTOM SPECIFICATION)	THE PROPOSED UTILITIES BELOW ARE DESIGN BY OTHERS AND ARE DEPICTED FOR COORDINATION PURPOSES ONLY. REFER TO PLANS BY OTHERS FOR EXACT LOCATIONS, DIMENSION, AND DETAILS.	
	93.2× EX. SPOT ELEVATION 93.23 PROPOSED SPOT ELEVATION	TOP/GRATE ELEV. LOCATION PROPOSED TYPE 'D' DITCH BOTTOM INLET TOP PER FDOT INDEX NO. 425-052 (SEE PLANS FOR GRATE MATERIAL AND	P-ATT PROPOSED AT&T LINE	
	DIRECTION OF SURFACE DRAINAGE FLOW		BC BC BC EX. BURIED CABLE LINE	
	PROPOSED SWALE LINE	TOP/GRATE ELEV. LOCATION PROPOSED TYPE 'E' DITCH BOTTOM INLET TOP PER FDOT INDEX NO. 425-052 (SEE PLANS FOR GRATE MATERIAL AND BOTTOM SPECIFICATION)	P-BC     PROPOSED BURIED CABLE LINE     BTEL     EX. BURIED TELEPHONE LINE	
	x x EX. FENCE	N-E LOCATION PROPOSED TYPE 'F' DITCH BOTTOM INLET TOP WITH STEEL	P-TEL PROPOSED TELEPHONE LINE	
		GRATE PER FDOT INDEX NO. 425-053 (SEE PLANS FOR BOTTOM SPECIFICATION)	CATV CATV CATV CATV CATV CATV CATV	
	$1234 \bigcirc EX. TREE (TREE ID)$	N-E LOCATION TOP/GRATE ELEV. LOCATION PROPOSED TYPE 'G' DITCH BOTTOM INLET TOP WITH STEEL	P-TV PROPOSED CABLE/TELEVISION LINE	
	12" PINE X EX. TREE TO BE REMOVED (SIZE & TYPE)	GRATE PER FDOT INDEX NO. 425-053 (SEE PLANS FOR BOTTOM SPECIFICATION)	UGTEL EX. UNDERGROUND TELEPHONE LINE	
	1234 EX. TREE TO BE REMOVED (TREE ID)	N-E LOCATION TOP/GRATE ELEV. LOCATION PROPOSED TYPE 'H' DITCH BOTTOM INLET TOP PER FDOT	te EX. TELEPHONE PEDESTAL	VISIONS:
	PROJECT BENCHMARK	BOTTOM SPECIFICATION)	EX. TELEVISION/CABLE PEDESTAL	1/BID RE
		N-E LOCATION TOP/GRATE ELEV. LOCATION PROPOSED TYPE 'J' DITCH BOTTOM INLET TOP WITH STEEL GRATE PER FDOT INDEX NO. 425-054 (SEE PLANS FOR	P-CHW     PROPOSED CHILLED WATER MAIN	RUCTION
		PIPE INV. LOCATION	FIRE EX. FIRE MAIN	CONST
		PROPOSED U-TYPE CONCRETE ENDWALLS WITH GRATES PER FDOT INDEX NO. 430-010 (SEE PLANS FOR SIZE)	P-FIRE PROPOSED FIRE MAIN	Q
		N-E LOCATION INV. ELEV. LOCATION PROPOSED FLARED END SECTION PER FDOT INDEX	P-IRR P-IRR PROPOSED IRRIGATION LINE	) SJRWN WMD
		NO. 430-020 (SEE PLANS FOR SIZE) N-E LOCATION PIPE INV. ELEV. LOCATION 7	STEAM EX. STEAM LINE	.U, ANE SJRN
		PROPOSED CROSS DRAIN MITERED END SECTION PER FDOT	P-STEAM PROPOSED STEAM LINE	GRU, AI
		N-E LOCATION PIPE INV. ELEV. LOCATION	P-CLAY РКОРОЅЕД СLAY ELECTRIC LINE	VILLE, U
		PROPOSED SIDE DRAIN MITERED END SECTION PER FDOT INDEX NO. 430-022 (SEE PLANS FOR SIZE)	P-E PROPOSED ELECTRIC LINE	Y OF G
			EN EX. ENERGY LINE	TO CIT ITY OF MENTS RWMD
		(3-10) PROPOSED STORMWATER STRUCTURE ID TAG	—— P–LIGHT——— PROPOSED PRIVATE LIGHTING LINE —— онж ——— онж —— EX. OVERHEAD WIRE LINE	L TO C DOCU L TO S
		<b>POTABLE AND RECLAIMED</b>	UGE UGE UGE EX. UNDERGROUND ELECTRIC LINE	T SUBM SMITTA SMITTA SMITTA SET
		WATER	☆ EX. LIGHT	1 - FIRS - RESUI - DRAF - DRAF - RESUI 2 - BID
		W W EX. POTABLE WATER MAIN		6/202 16/202 1/2022 1/2022 1/2022 16/202
		PROPOSED POTABLE WATER MAIN	© EX. WOOD POWER POLE	SUBM 12/0 3/11 6/2 10/0
			$\rightarrow$ EX. GUY ANCHOR	
		الم الم 11.25° BEND W/ MECHANICALLY RESTRAINED JOINTS (POTABLE AND RCW)	GAS GAS GAS GAS EX. GAS I INF	ŚPP
		رم 22.5 <sup>°</sup> BEND W/ MECHANICALLY RESTRAINED JOINTS (POTABLE AND RCW)	P-GAS PROPOSED GAS LINE	ESVIL ARK W
		رم 45' BEND W/ MECHANICALLY RESTRAINED IOINTS (POTABLE AND RCW)	© EX. GAS MARKER	EST P#
		Li 90° BEND W/ MECHANICALLY RESTRAINED	G EX. GAS MARKER	FOR
		工 TEE (POTABLE AND RCW)		U U U
		$\begin{array}{c} \begin{array}{c} & & \\ & \\ & \\ & \\ \end{array}  RI OWOFF ASSEMRLY (POTARLE AND PCW) \end{array}$		LIENT: ZOJECT: HEET TITI
		■ REDUCER (POTABLE AND RCW)		S B S
		EX. GATE VALVE AND BOX (POTABLE AND RCW)		
		PROPOSED GATE VALVE AND BOX (POTABLE AND RCW)  FY AIR DELEASE VALVE (DOTABLE AND DCW)		
		<ul> <li>PROPOSED AIR RELEASE VALVE (POTABLE AND RCW)</li> </ul>		CHNICLA CHNICLA ESIGNER: CTHOI JALITY C HAST
		XX EX. FIRE HYDRANT ASSEMBLY		דRAVIS J. HASTAY
		PROPOSED FIRE HYDRANT ASSEMBLY      PROPOSED SAMPLE POINT		
		EX. WATER METER (POTABLE AND RCW)		
		PROPOSED POTABLE WATER METER		
		PROPOSED POTABLE WATER BACK FLOW PREVENTER	NOTES.	
		$\Leftrightarrow  PROPOSED \text{ Reclaimed water meter}$ $(w)  EX. \text{ WATER WELL}$	1. THIS LEGEND IS ALL INCLUSIVE AND MAY INCLUDE ITEMS NOT A	
		• EX, HOSE BIB (POTABLE AND RECLAIMED)		
		• PROPOSED HOSE BIB (POTABLE AND RECLAIMED)	2. STMBOLS SHOWN ON THIS SHEET ARE FOR ILLUSTRATIVE PURPOSES ONLY. UNLESS NOTED OTHERWISE, SYMBOLS IN THESE	FL PE No. 84295
		(I) PROPOSED FITTING ID TAG (POTABLE AND RECLAIMED)	PLANS MAY NOT BE REPRESENTATIVE OF SIZE.	

STORMWATER	WASTEWATER	ຈັສຈີE <b>∢</b> ສ
SED STORMWATER STRUCTURES DEPICTED BELOW ARE DRAWN PER FDOT TIONS AND TO SCALE WHEN SHOWN ON THE PLAN SHEETS.	WW WW EX. GRAVITY WASTEWATER MAIN	th Driv a 326 331-197 inc.col A-507
ST     EX. GRAVITY STORMWATER MAIN       P-ST     PROPOSED GRAVITY STORMWATER MAIN (PIPE LENGTHS ARE	P-WW PROPOSED GRAVITY WASTEWATER MAIN (PIPE LENGTHS ARE FROM N-E LOCATION OF A STRUCTURE TO N-E	Ssearc 552) 3 552) 3 552) 3 7 Chw-i
FROM N-E LOCATION OF A STRUCTURE TO N-E LOCATION OF A STRUCTURE)	FM     FM     EX. WASTEWATER FORCE MAIN	301 Re 301 Re 301 Re 1988 <b>F</b>
E LOCATION	P-FM PROPOSED WASTEWATER FORCE MAIN	Alac est.
N-E LOCATION INDEX. NO. 425-001 AND 425-010 LEV. LOCATION	RIM ELEV. LOCATION	
N-E LOCATION LEV. LOCATION	8 EX. WASTEWATER CLEANOUT	
OCATION OCATION PROPOSED TYPE 1 CURB INLET TOP PER FDOT INDEX NO.	PROPOSED WASTEWATER CLEANOUT     PROPOSED WASTEWATER GREASE TRAP	
ATION 425-020 (SEE PLANS FOR BOTTOM SPECIFICATION)	MH# PROPOSED WASTEWATER MANHOLE ID	tultants
PROPOSED TYPE 2 CURB INLET TOP PER FDOT INDEX NO. 425-020 (SEE PLANS FOR BOTTOM SPECIFICATION)	JOINTS (WW FORCE MAIN)	
PROPOSED TYPE 3 CURB INLET TOP PER FDOT INDEX NO. 425-020 (SEE PLANS FOR BOTTOM SPECIFICATION)	JOINTS (WW FORCE MAIN)	fession
OCATION PROPOSED TYPE 4 CURB INLET TOP PER FDOT INDEX NO.	JOINTS (WW FORCE MAIN) L 90 <sup>°</sup> BEND W/ MECHANICALLY RESTRAINED	
425-020 (SEE PLANS FOR BOTTOM SPECIFICATION)	JOINTS (WW FORCE MAIN) بر WYE W/ MECHANICALLY RESTRAINED	
LOCATION CATION CATION	JOINTS (WW FORCE MAIN) K EX. PLUG VALVE AND BOX (WW FORCE MAIN)	
PROPOSED TYPE 6 CURB INLET TOP PER FDOT INDEX NO. 425-021 (SEE PLANS FOR BOTTOM SPECIFICATION)	PROPOSED PLUG VALVE AND BOX (WW FORCE MAIN)	LE CH ON JUST ON
N-E LOCATION LEV. LOCATION A25-024 (SEE PLANS FOR POTTOM SPECIFICATION)	<ul> <li>⊕ EX. AIR RELEASE VALVE (WW FORCE MAIN)</li> <li>● PROPOSED AIR RELEASE VALVE (WW FORCE MAIN)</li> </ul>	N RIFY SCA 6 ONE INC NAL DRA NAL DRA SHEET, AL
N-E LOCATION PROPOSED TYPE 'C' DITCH BOTTOM INLET TOP PER FDOT	MISCELLANEOUS UTILITIES	N/A N/A VE BAR IS ORIGI IF NO <sup>T</sup> THIS SCALES
INDEX NO. 425-052 (SEE PLANS FOR GRATE MATERIAL AND BOTTOM SPECIFICATION)	THE PROPOSED UTILITIES BELOW ARE DESIGN BY OTHERS AND ARE DEPICTED FOR COORDINATION PURPOSES ONLY. REFER TO PLANS BY OTHERS FOR EXACT	° 20
N-E LOCATION LEV. LOCATION PROPOSED TYPE 'D' DITCH BOTTOM INLET TOP PER FDOT	LOCATIONS, DIMENSION, AND DETAILS.	
BOTTOM SPECIFICATION)	BC BC BC EX. BURIED CABLE LINE	
PROPOSED TYPE 'E' DITCH BOTTOM INLET TOP PER FDOT INDEX NO. 425-052 (SEE PLANS FOR GRATE MATERIAL AND	P-BC PROPOSED BURIED CABLE LINE	
	BTEL EX. BURIED TELEPHONE LINE     P-TEL PROPOSED TELEPHONE LINE	
GRATE PER FDOT INDEX NO. 425-053 (SEE PLANS FOR BOTTOM SPECIFICATION)	CATV CATV CATV CATV CABLE TELEVISION LINE	
N-E LOCATION LEV. LOCATION PROPOSED TYPE 'G' DITCH BOTTOM INLET TOP WITH STEEL		
GRATE PER FDOT INDEX NO. 425-053 (SEE PLANS FOR BOTTOM SPECIFICATION)	Fo FO FO EX. FIBER OPTIC LINE     UGTEL EX. UNDERGROUND TELEPHONE LINE	
N-E LOCATION LEV. LOCATION PROPOSED TYPE 'H' DITCH BOTTOM INLET TOP PER FDOT INDEX NO. 425-052 (SEE PLANS FOR GRATE MATERIAL AND	te EX. TELEPHONE PEDESTAL	:VISIONS:
BOTTOM SPECIFICATION)	CHW — CHW	DN/BID RI
LEV. LOCATION PROPOSED TYPE 'J' DITCH BOTTOM INLET TOP WITH STEEL GRATE PER FDOT INDEX NO. 425-054 (SEE PLANS FOR BOTTOM SPECIFICATION)	PROPOSED CHILLED WATER MAIN	<b>VSTRUCTI</b>
ON PROPOSED U-TYPE CONCRETE ENDWALLS WITH GRATES PER	FIRE EX. FIRE MAIN     PROPOSED FIRE MAIN	<u>Č</u>
CATION FDOT INDEX NO. 430-010 (SEE PLANS FOR SIZE)	IRR IRR EX. IRRIGATION LINE	D
PROPOSED FLARED END SECTION PER FDOT INDEX NO. 430-020 (SEE PLANS FOR SIZE)		AND SJ SJRWM
PROPOSED CROSS DRAIN MITERED END SECTION PER FDOT	PROPOSED STEAM LINE	.E, GRU RU, ANE
Le LOCATION V. LOCATION	P-CLAY     PROPOSED CLAY ELECTRIC LINE	NESVILI ILLE, GI
PROPOSED SIDE DRAIN MITERED END SECTION PER FDOT		OF GAI
		TO CITY ITY OF Q RWMD
(3-10) PROPOSED STORMWATER STRUCTURE ID TAG	OHW - OHW	AL TO C AL TO C AL TO SJ
OTABLE AND RECLAIMED	UGE UGE UGE UGE EX. UNDERGROUND ELECTRIC LINE	ST SUBN JBMITT/ JBMITT/ JBMITT/ SET
WATER	🌣 EX. LIGHT	82 - RESU 2 - RESU 2 - RESU 2 - RESU 22 - BIC
W EX. POTABLE WATER MAIN	C EX. UTILITY POLE	ВМІТТАL /06/20 11/202 29/202 /06/20
RCW — EX. RECLAIMED WATER MAIN	© EX. WOOD POWER POLE	301 10 10 10
P-RCW PROPOSED RECLAIMED WATER MAIN	$\rightarrow$ EX. GUY ANCHOR	
المالية بالمالية المالية	GAS — GAS — EX. GAS LINE	NSPP
22.5' BEND W/ MECHANICALLY RESTRAINED JOINTS (POTABLE AND RCW)	P-GAS PROPOSED GAS LINE	ARK V
جم 45 <sup>°</sup> BEND W/ MECHANICALLY RESTRAINED JOINTS (POTABLE AND RCW)	© EX. GAS MARKER	F GAIN
ц 90 <sup>°</sup> BEND W/ MECHANICALLY RESTRAINED JOINTS (POTABLE AND RCW)	G EX. GAS MARKER	FOR 0
エ TEE (POTABLE AND RCW)		
OII BLOWOFF ASSEMBLY (POTABLE AND RCW)		CLIENT PROJEC SHEET
REDUCER (POTABLE AND RCW)		
EX. GATE VALVE AND BOX (POTABLE AND RCW) PROPOSED CATE VALVE AND BOX (POTABLE AND RCW)		
<ul> <li>⊕ EX. AIR RELEASE VALVE (POTABLE AND RCW)</li> </ul>		IAN: REITT R: DRNTC CONTRI CONTRI NUMBER
PROPOSED AIR RELEASE VALVE (POTABLE AND RCW)		TECHNIC K MEF DESIGNE C THC JUALITY ROJECT I ROJECT
		TRAVIS J. HASTAY
PROPOSED FIRE HYDRANT ASSEMBLY     PROPOSED SAMPLE POINT		
• EX. WATER METER (POTABLE AND RCW)		
PROPOSED POTABLE WATER METER		
	ΝΩΤΕς·	
W EX. WATER WELL	1. THIS LEGEND IS ALL INCLUSIVE AND MAY INCLUDE ITEMS NOT A	
ightarrow EX, HOSE BIB (POTABLE AND RECLAIMED)	2 SVMROI S SHOWN ON THIS SHEET ADE EOD II LISTDATIVE	
<ul> <li>PROPOSED HOSE BIB (POTABLE AND RECLAIMED)</li> <li>PROPOSED FITTING ID TAG (POTARI E AND RECLAIMED)</li> </ul>	2. STABOLS SHOWN ON THIS SHEET ARE FOR ILLUSTRATIVE PURPOSES ONLY. UNLESS NOTED OTHERWISE, SYMBOLS IN THESE PLANS MAY NOT RE REPRESENTATIVE OF SIZE	FL PE No. 84295
	- 2, and and the All RESERVATIVE OF SIZE.	





		11801 Research Drive Alachua. Florida 32615	Professional Consultants est. 1988 FLORIDA CA-5075
		<b>SCALE:</b> 1" = 80'	VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
	<ul> <li>→ Deletion where</li> <li>→ FOUND 4*X4* CONCRETE MONUMENT STAMPED "ALACHUA COUNTY LB 2389"</li> <li>→ SET NAIL AND DISK STAMPED "CHW PCP LB 5075"</li> <li>→ SET 5/8" STEEL REBAR AND CAP MARKED "CHW INC LB 5075"</li> <li>→ CLEANOUT</li> <li>→ METAL POWER POLE</li> <li>→ ELECTRIC HANDHOLE</li> <li>→ ELECTRIC METER</li> <li>→ FIBER OPTIC BOX</li> <li>→ GUY ANCHOR</li> <li>→ BACKFLOW PREVENTOR</li> <li>→ FIRE HYDRANT</li> <li>→ ARTIGATION CONTROL VALVE</li> <li>→ ARTIGATION CONTROL VALVE</li> <li>→ ARTIGATION CONTROL VALVE</li> <li>→ SANITARY SEWER MANHOLE</li> <li>→ SANITARY SEWER MANHOLE</li> <li>→ WATER VALVE</li> <li>→ WATER VALVE</li> <li>→ STORM INLET</li> <li>→ CURB INLET</li> <li>→ BOLLARD</li> <li>→ BIKE RACK</li> <li>→ TRASH CAN</li> <li>→ WATER FOUNTAIN</li> </ul>	ERTIFIED TO:	CITY OF GAINESVILLE
en ine	= ASPHALT SURFACE $= CONCRETE SURFACE$ $= CONCRETE SURFACE$ $= OVERHEAD WIRE$ $= FENCE (SIZE AND TYPE AS NOTED)$ $= GUARD RAIL$ $= ST - CONCRETE SURFACE$ $= FENCE (SIZE AND TYPE AS NOTED)$ $= GUARD RAIL$ $= ST - CONCRETE SURFACE$ $= UNDERGROUND WATER LINE (PER GRU MAPS)$ $= UNDERGROUND GAS LINE (PER GRU MAPS)$ $= UNDERGROUND GAS LINE (PER GRU MAPS)$	<b>SURVEY DATE:</b> 06/09/2021	Revision date: N/A Project number: 21-0219
SITE CONTROL POINT FOUND 4" X 4" CONCRETE MONUMENT STAMPED "ALACHUA COUNTY LB 2389" NORTHING: 237306.47 EASTING: 2639001.71 ELEVATION: 65.52'	(E) = UNDERGROUND ELECTRIC LINE (PER GRU MAPS) (SS) = UNDERGROUND SANITARY SEWER LINE (PER GRU MAPS) 63 = CONTOUR LINE R/W = RIGHT OF WAY FFE = FINISHED FLOOR ELEVATION NRE = NORTH RIM ELEVATION INV = INVERT RCP = REINFORCED CONCRETE PIPE X 63.5 = SPOT ELEVATION (PERVIOUS SURFACE) X 63.75 = SPOT ELEVATION (IMPERVIOUS SURFACE) PCN = PECAN	TECHNICIAN: KWM CRFW CHIEF:	JM CHECKED BY: AHH FIELD BOOK & PAGE: 615-1
	GUM = SWEETGUM SHO = SHUMARD OAK TREE = UNKNOWN SPECIES CYP = CYPRESS WO = WATER OAK MAP = MAPLE LAO = LAUREL OAK LO = LIVE OAK NVBTP = NO VEHICLES BEYOND THIS POINT NP = NO PARKING HCP = HANDICAPPED PARKING	AARON H. HICKMAN	Professional Surveyor & Mapper Fla. License No. 6791
		म म This map prepared by:	Certificate of Authorization No. L.B. 5075 NOT VALID WITHOUT THE ORIGINAL SIGNATURE AND SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER
		1	OF 4



× 62.7

VOLLEYBALL COURTS

× 63.2

★ 64.0

≯ 63.9

DRIP LINE

2' WOOD

× 65.4

BARRIER FENCE

× 65.2

× 65.16

6" HEADER CURB-

CONC. M.E.S. INV. = 60.04' (18" RCP)

└─6" HEADER CURE

WATER ELEVATION ON 5/25/21 = 59.5'

× 63.74

× 63.93

64.75 × 64.75

× 64.08

× 64.34

× ×

× 63.55

5' CONCRETE SIDEWALK

-6" HEADER CURE

18/ 5/

# TOPOGRAPHIC SURVEY OF FOREST PARK LOCATED IN SECTION 10, TOWNSHIP 10 SOUTH, RANGE 19 EAST, CITY OF GAINESVILLE, ALACHUA COUNTY, FLORIDA

- SURVEYOR'S NOTES: 1. BOUNDARY INFORMATION SHOWN HEREON IS BASED ON A PRIOR SURVEY PREPARED BY ENG DENMAN & ASSOCIATES FOR ALACHUA COUNTY PUBLIC WORKS DIVISION, UNDER PROJECT NUMBER 02-116, DATES FEBRUARY 12, 2002.
- 2. BEARINGS AND COORDINATES SHOWN HEREON ARE REFERENCED TO STATE PLANE COORDINATE SYSTEM, FLORIDA NORTH (NAD88). 3. NO UNDERGROUND INSTALLATION OF UTILITIES OR IMPROVEMENTS HAVE BEEN LOCATED EXCEPT AS SHOWN. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.
- 4. THE SURVEYOR HAS NO KNOWLEDGE OF UNDERGROUND FOUNDATIONS WHICH MAY ENCROACH. 5. INSTRUMENTS OF RECORD REFLECTING EASEMENTS, RIGHTS-OF-WAY, AND OR OWNERSHIP WERE NOT FURNISHED TO THE SURVEYOR EXCEPT AS SHOWN. SEARCH OF THE PUBLIC RECORDS HAS NOT BEEN DONE BY THE SURVEYOR.
- 6. INFORMATION FROM FEDERAL EMERGENCY MANAGEMENT AGENCY, (F.E.M.A.) FLOOD INSURANCE RATE MAP(S), SHOWN ON THIS MAP WAS CURRENT AS OF THE REFERENCED DATE. MAP REVISIONS AND AMENDMENTS ARE PERIODICALLY MADE BY LETTER AND MAY NOT BE REFLECTED ON THE MOST CURRENT MAP.
- 7. FENCES, SYMBOLS, MONUMENTATION AND UTILITIES SHOWN HEREON MAY BE EXAGGERATED FOR PICTORIAL PURPOSES ONLY AND MAY NOT BE SHOWN TO SCALE.
- 8. IN THE OPINION OF THIS SURVEYOR, THE PERIMETER LINES AS SHOWN HEREON REPRESENT THE LOCATION OF THE BOUNDARY LINES OF THE SUBJECT PARCEL IN RELATION TO THE DESCRIPTION OF RECORD AND THOSE EXISTING LAND CORNERS FOUND TO BE ACCEPTABLE BY THIS SURVEYOR.
- 9. ELEVATIONS SHOWN HEREON ARE BASED ON NAVD88 DATUM, AS PROJECTED FROM ST. JOHNS RIVER WATER MANAGEMENT DISTRICT BENCHMARK 99-035-0-02, LOCATED ON THE TOP OF A CONCRETE GUARD RAIL ON THE SOUTHWEST SIDE OF THE BRIDGE AT THE CROSSING OF HOGTOWN CREEK AND SW 20TH AVENUE. PUBLISHED ELEVATION = 69.819' (NGVD29). ELEVATION CONVERTED TO NAVD88 DATUM USING THE CORPSCON SOFTWARE. CONVERTED ELEVATION = 68.989' (NAVD88).
- 10. ADDITIONAL POINTS MAY BE FOUND BY TURNING ON THE SV-NODE\* LAYERS IN THE SUPPLIED DIGITAL FILE. 11. THIS SURVEY CONSISTS OF FOUR (4) SHEETS AND IS NOT COMPLETE WITH OUT ALL FOUR (4) SHEETS. SEE SHEET ONE (1) FOR OVERALL BOUNDARY, LEGEND AND COMPLETE SURVEYOR'S NOTES. SEE SHEETS TWO (2) THROUGH FOUR (4) FOR DETAILED TOPOGRAPHIC INFORMATION.





\_642 SEE SHEET 4

6" HEADER CURE

NOT

2 OF 4

SHEET NO.



- 9. ELEVATIONS SHOWN HEREON ARE BASED ON NAVD88 DATUM, AS PROJECTED FROM ST. JOHNS RIVER WATER MANAGEMENT DISTRICT BENCHMARK 99-035-0-02, LOCATED ON THE TOP OF A CONCRETE GUARD RAIL ON THE SOUTHWEST SIDE OF THE BRIDGE AT THE CROSSING OF HOGTOWN CREEK AND SW 20TH AVENUE. PUBLISHED ELEVATION = 69.819' (NGVD29). ELEVATION CONVERTED TO NAVD88 DATUM USING THE CORPSCON SOFTWARE. CONVERTED ELEVATION = 68.989' (NAVD88).
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- 11. THIS SURVEY CONSISTS OF FOUR (4) SHEETS AND IS NOT COMPLETE WITH OUT ALL FOUR (4) SHEETS. SEE SHEET ONE (1) FOR OVERALL BOUNDARY, LEGEND AND COMPLETE SURVEYOR'S NOTES. SEE SHEETS TWO (2) THROUGH FOUR (4) FOR DETAILED TOPOGRAPHIC INFORMATION.

2 18"TREE

× 63.5

**Q** P 64.4 × 0 0 ×

× × 63.3

× 61.4

27"PECAN

X 62.9

× 63.4



LEGEND:

= BENCHMARK

 $\bigotimes$  = CLEANOUT

G = GAS METER

 $\stackrel{\text{GV}}{\longrightarrow}$  = GAS VALVE

= WATER VALVE = WATER METER

= CURB INLET

= STORM INLET

= SIGN

# TOPOGRAPHIC SURVEY OF FOREST PARK





I.	INTRODUCTION	
Tŀ	HIS DOCUMENT WAS PREPARED	IN ORDER TO ILLUSTRATE COMPLIANCE WITH CHAPTER 62-621.300 (4) OF THE FLORIDA ADMINISTRATIVE CODE, WHICH PERTAINS TO
Tŀ	HE GENERIC PERMIT FOR STORM	WATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES. THE ADMINISTRATIVE CODE GRANTS THE FLORIDA
DI	EPARTMENT OF ENVIRONMENTA	L PROTECTION (FDEP) THE AUTHORITY TO REGULATE POINT SOURCE DISCHARGE OF STORMWATER FROM CONSTRUCTION SITES. THIS
D	OCUMENT ESTABLISHES A STOR	MWATER POLLUTION PREVENTION PLAN FOR THE SITE USING STANDARD PRACTICE AND BEST MANAGEMENT PRACTICES (BMPs) AND IS
ΟΙ	RGANIZED TO CORRESPOND TO	62-621.300(4)(a) GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES FDEP FORM
62	2-621.300(4)(b) IS TO BE SUBMIT	TED IN CONJUNCTION WITH THIS DOCUMENT. CONTRACTOR(S) MUST FILL IN THE ACTIVITIES SEQUENCE (SECTION ii. B. BELOW) AND
SI	GN THIS SHEET (REFER TO SIGN)	ATURE TABLE THIS SHEET) AND RETAIN THIS SHEET AND ALL FOLLOWING SWPPP SHEETS ON SITE. ALTERNATIVELY, CONTRACTOR(S)
M	AY PREPARE AND SIGN THEIR OV	NN SWPP PLAN MEETING THE REQUIREMENTS. IF THE SITE OR CONTRACTOR ACTIVITIES REQUIRE ANY BMPS THAT ARE NOT DESCRIBED
ΟΙ	N THIS SHEET, THE CONTRACTO	OR MUST PREPARE AN ALTERNATIVE OR ADDITIONAL SWPPP DOCUMENT CONTAINING THE NECESSARY BMPs.
П.	SITE DESCRIPTIO	N
С	OUNTY:	ALACHUA COUNTY, FLORIDA
SE	ECTION, TOWNSHIP, RANGE:	SECTION 10, TOWNSHIP 10 SOUTH, RANGE 19 EAST
С	OUNTY PARCEL NO.:	06680-002-001
57	TREET ADDRESS:	4501 SW 20TH AVENUE
Pł	ROJECT AREA:	24.27 ACRES
SI	TE LOCATION MAP:	SEE COVER SHEET OF CONSTRUCTION DRAWINGS
_		
A	. NATURE OF CON	STRUCTION ACTIVITY

THE PROPOSED DEVELOPMENT IS THE REHABILITATION OF THE EXISTING PLAYING FIELDS WITHIN FOREST PARK, DOG PARK RECONFIGURATION, FIELD AND PARKING LOT LIGHTING INSTALLATION AND ADDITIONAL FENCING AMONGST OTHER PARK UPGRADES. THE PROJECT SITE IS LOCATED AT 4501 SW 20TH AVENUE, GAINESVILLE FLORIDA. THE PROJECT SITE TOTAL AREA IS APPROXIMATELY 24.27 ACRES.

#### **B. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES - CONTRACTOR MUST FILL IN DAYS**

	<u>DAYS</u>	
FROM	ТО	PRIOR TO CONSTRUCTION, SILT FENCING AND TREE PROTECTION FENCING SHALL BE INSTALLED AND ALL EXISTING STORM DRAINAGE
		AND REVIEWER MANUAL, DATED JULY 2013, AND THESE PLANS.
FROM	ТО	THE CONSTRUCTION SERVICE ENTRANCE SHALL BE STABILIZED TO MINIMIZE THE CREATION OF DUST AND OFF-SITE TRACKING OF
		SEDIMENTS.
FROM	ТО	ONLY THE AREA COMPRISING THE PROPOSED STORMWATER MANAGEMENT FACILITY(S) SHALL BE CLEARED AND GRUBBED OF UNWANTED VEGETATION.
FROM	ТО	THE PROPOSED STORMWATER MANAGEMENT FACILITY(S) SHALL BE CONSTRUCTED.
FROM	ТО	IF SUITABLE, THE EXCAVATED SOIL FROM THE FACILITY(S) MAY BE USED AS FILL FOR ON-SITE GRADING THAT IS DEPICTED IN THESE
		CONSTRUCTION PLANS. THE CONTRACTOR SHALL DISPOSE OF ALL UNSUITABLE MATERIAL ON-SITE OR OFF-SITE TO A PERMITTED LOCATION.
FROM	ТО	THE REMAINING PORTION OF THE SITE THAT IS TREATED BY THE CONSTRUCTED STORMWATER MANAGEMENT FACILITY(S) SHALL BE
		CLEARED AND GRUBBED.
FROM	ТО	THE PERMANENT ROADWAYS/DRIVEWAYS SHALL BE ROUGHLY GRADED.
FROM	ТО	THE UNDERGROUND UTILITIES INFRASTRUCTURE AND STORMWATER PIPING SYSTEM SHALL BE INSTALLED. ANY DE-WATERING (PUMPED)
		SHALL BE DIVERTED TO THE ASSOCIATED STORMWATER MANAGEMENT FACILITY(S).
FROM	ТО	THE PERMANENT ROADWAY/DRIVEWAY SUBGRADE SHALL BE COMPACTED, A LIMEROCK BASE SHALL BE ESTABLISHED, AND THEN
		FOLLOWED BY AN OVERLAY OF ASPHALT.
FROM	TO	UPON SIGNIFICANT COMPLETION OF CONSTRUCTION, THE STORMWATER PIPING SYSTEM SHALL BE FLUSHED OUT TO REMOVE
EROM	то	ACCUMULATED DEBKIS AND SEDIMENT.
FROM	10	UPON COMPLETION OF THE DEBRIS AND SEDIMENT REMOVAL FROM THE STORMWATER PIPING STSTEM, THE PROPOSED STORMWATER
		MANAGEMENT FACILITY(S) SHALL BE FINE GRADED AND SHALL BE EXCAVATED A MINIMUM OF SIX INCHES BELOW THE DESIGN BOTTOM
		ELEVATION AND REPLACED WITH FILL HAVING A MINIMUM PERMEABILITY RATE OF 20 FEET/DAY WITH A MAXIMUM OF 5% SOIL FINES
		PASSING THE NO. 200 SIEVE. THE BOTTOM SHALL BE SCARIFIED AND STABILIZED ACCORDING TO THESE PLANS. ONCE COMPLETED,
		NO HEAVY MACHINERY SHALL BE ALLOWED WITHIN THE STORMWATER MANAGEMENT FACILITY(S).
FROM	ТО	ALL REMAINING DISTURBED AREAS WITHIN THE CONSTRUCTION AREA SHALL BE COMPLETELY GRASSED AND/OR LANDSCAPED ACCORDING

BE PRESENT PRIOR TO REMOVAL OF SILT FENCING AND OTHER EROSION CONTROL APPLICATIONS.

#### C. SITE DEVELOPMENT DATA:

TOTAL PROJECT SITE AREA: L SITE ARFA TO RE DISTURBE

TOTAL SITE AREA TO BE DISTORBED:	20.00 ACKES
TOTAL IMPERVIOUS AREA (AS SHOWN IN CONSTRUCTION DRAWINGS):	1.81 ACRES
TOTAL DETENTION VOLUME:	N/A
TOTAL OPEN AREA:	22.45 ACRES

N/A

N/A

3.5 FFFT

2 TO 28 FEET/DAY

#### **D. SOIL CONDITIONS AND STORMWATER QUALITY**

THE NRCS DATA FOR THE SITE REVEALS THAT THE SITE SOILS ARE COMPRISED OF ARREDONDO-URBAN LAND COMPLEX. MILLHOPPER-URBAN LAND COMPLEX. POMONA SAND AND PITS AND DUMPS. GSE ENGINEERING. INC. CONDUCTED A GEOTECHNICAL EXPLORATION OF THE PROPOSED PLAYING FIELD LOCATION IN NOVEMBER OF 2021. THE INVESTIGATION REVEALED THAT THE PROJECT SITE'S SURFACE SOILS HAVE THE FOLLOWING CHARACTERISTICS:

TO THESE PLANS. TURF ESTABLISHMENT SHALL BE PER FDOT STANDARD SPECIFICATIONS SECTION 570. EVIDENCE OF GROWTH MUST

24.27 ACRES

#### DEPTH TO EFFECTIVE OR MOBILIZED AQUIFER: DEPTH OF SEASONAL HIGH WATER TABLE:

HORIZONTAL HYDRAULIC CONDUCTIVITY: UNSATURATED VERTICAL INFILTRATION:

NO STORMWATER MANAGEMENT FACILITY IS PROPOSED FOR THIS PROJECT

WATERSHED ID	POST DEVELOPMENT AREA (ACRES)	POST DEVELOPMENT RUNOFF FACTOR (CN)	POST DEVELOPMENT IMPERVIOUS AREA (ACRES)	STORMWATER MANAGEMENT FACILITY TYPE	FACILITY DETENTION CAPACITY (ACRE-FEET)	100-YEAR FLOOD ELEVATION (FT)
N/A	N/A	N/A	N/A	N/A	N/A	N/A

#### E. SITE MAP

PLEASE SEE THE STORMWATER POLLUTION PREVENTION PLAN (C0.21) FOR DETAILS.

#### F. STORMWATER OUTFALL LOCATION AND RECEIVING WATER BODY

NO STORMWATER OUTFALL STRUCTURES ARE PROPOSED.

#### **III. CONTROLS TO REDUCE POLLUTION**

AS OUTLINED IN THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT (SIRWMD) PERMIT, ALL CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED IN A MANNER AS TO NOT VIOLATE STATE WATER QUALITY STANDARDS. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES REQUIRED TO RETAIN SEDIMENT ON-SITE. IF SITE CONDITIONS ARE SUCH THAT ADDITIONAL CONTROL MEASURES ARE REQUIRED OTHER THAN WHAT IS SPECIFIED IN THE EROSION AND SEDIMENTATION CONTROL PLAN, THEN THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL BEST MANAGEMENT PRACTICES. THESE MEASURES MUST BE INSPECTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PHASE AND UNTIL AS DIRECTED BY THESE PLANS. THE STORMWATER POLLUTION PREVENTION PLAN (C0.21) AND SECTION IV BELOW PROVIDE DETAILS ON THE SPECIFIC CONTROL MEASURES TO REDUCE STORMWATER POLLUTION.

#### **IV. EROSION AND SEDIMENT CONTROLS**

#### A. STABILIZATION PRACTICES

EXISTING TREES AND NATURAL VEGETATION TO REMAIN ON-SITE SHALL BE PROTECTED BY TREE BARRICADE FENCING AS DEPICTED ON THE STORMWATER POLLUTION PREVENTION PLAN (C0.21). TYPE III SILT FENCING SHALL PROTECT ALL DRAINAGE STRUCTURES AND SHALL BUFFER AREAS WITH POTENTIAL TO CONTRIBUTE OFF-SITE RUNOFF AND AS SPECIFICALLY DEPICTED ON THE STORMWATER POLLUTION PREVENTION PLAN (C0.21). STABILIZATION MEASURES SHALL BE INITIATED FOR EROSION AND SEDIMENT CONTROL ON DISTURBED AREAS AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS, IN PORTIONS OF THE SITE WHERE CONSTRUCTION HAS TEMPORARILY OR PERMANENTLY CEASED. AS SPECIFIED IN SECTION II.B. ABOVE, UPON COMPLETION OF CONSTRUCTION, ALL STORMWATER MANAGEMENT FACILITIES SHALL BE SCRAPED CLEAN OF ACCUMULATED SEDIMENT AFTER THE COMPLETION OF CONSTRUCTION. ALL TURE ESTABLISHMENT SHALL BE PERFORMED MEETING THE REQUIREMENTS OF SECTION 570 OF THE STANDARD SPECIFICATIONS. EVIDENCE OF GROWTH MUST BE PRESENT PRIOR TO FINAL RELEASE.

#### **B. STRUCTURE PRACTICES**

AS DEPICTED IN THE STORMWATER POLLUTION PREVENTION PLAN (C0.21), A PIPE CONVEYANCE SYSTEM WILL BE CONSTRUCTED. TO PREVENT EROSION DURING CONSTRUCTION, TYPE III SILT FENCING WILL BE INSTALLED IN THE LOCATIONS SHOWN ON THE PLANS. ALL EXISTING AND PROPOSED STORM DRAINS AND DRAINAGE SWALES SHALL BE PROTECTED ACCORDING TO THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL, DATED JULY 2013 OR PER DETAILS PROVIDED ON SHEET CO.21 UNTIL CONSTRUCTION IS COMPLETE. THE STORM PIPE CONVEYANCE SYSTEM SHALL BE FLUSHED OUT TO REMOVE ALL ACCUMULATED DEBRIS AND SEDIMENT UPON COMPLETION OF CONSTRUCTION.

NOT APPLICABLE, SEE SECTION D, BELOW.

D. DRAINAGE LOCATIONS THAT SERVE AREAS WITH MORE THAN 10 DISTURBED ACRES AS SHOWN ON THE STORMWATER POLLUTION PREVENTION PLAN (C0.21), THE PROPOSED EROSION CONTROL METHODS WILL PREVENT OFF-SITE EROSION DURING CONSTRUCTION. SILT FENCES OR EQUIVALENT SEDIMENT CONTROLS SHALL BE INSTALLED AT SIDE SLOPE AND DOWN SLOPE BOUNDARIES, INLET LOCATION, OUTLET LOCATIONS, AND OTHER LOCATIONS AS SHOWN ON THE STORMWATER POLLUTION PREVENTION PLAN, AS REQUIRED. BY COMPLETION OF CONSTRUCTION, THE SIDE SLOPES, SWALES, AND ALL DISTURBED AREAS SHALL BE STABILIZED WITH GRASS AND LANDSCAPING AS SPECIFIED ON THE CONSTRUCTION DRAWINGS.

#### V. STORMWATER MANAGEMENT

#### A. BEST MANAGEMENT PRACTICES

AFTER CONSTRUCTION, THE STORMWATER MANAGEMENT SYSTEM SHALL BE MAINTAINED IN ACCORDANCE WITH THE SPECIFIED STORMWATER MAINTENANCE NOTES IN THE INCLUDED CONSTRUCTION DRAWINGS AND/OR RESPECTIVE MAINTENANCE REPORTS. SPECIFICALLY. THE PROPOSED SMF(S) SHALL BE MOWED REGULARLY IN THE SPECIFIED AREAS, STORM PIPES AND STRUCTURES WILL BE INSPECTED SEMI-ANNUALLY AND CLEANED ANNUALLY, SMF(S) SIDE SLOPES SHALL BE MAINTAINED TO PREVENT EROSION, AND LANDSCAPING AND GRASS THAT PREVENTS EROSION SHALL BE MAINTAINED. ADDITIONALLY, REMEDIAL ACTIONS SHALL BE TAKEN SHOULD THE SME(S) NOT PERFORM AS DESIGNED.

#### **B. VEGETATED SWALES**

WHEN VEGETATED SWALES ARE UTILIZED, SILT FENCING OR EQUIVALENT SEDIMENT CONTROLS SHALL BE INSTALLED AT ADEQUATE INTERVALS TO COLLECT SEDIMENT ALONG THE SWALE. THE SEDIMENT SHALL BE REMOVED WHEN SEDIMENT REACHES ONE-THIRD OF THE HEIGHT OF THE SILT FENCING. SEE THE STORMWATER POLLUTION PREVENTION PLAN (C0.21) FOR DETAILS AND LOCATIONS. AS REOUIRED.

#### **C. VELOCITY DISSIPATION DEVICES AT DISCHARGE POINTS**

WHEN DISCHARGE POINTS ARE NOT LOCATED UNDER WATER, RIP RAP PADS HAVE BEEN PROVIDED AT LOCATIONS WHERE NECESSARY DUE TO ANTICIPATED DISCHARGE VELOCITIES. PLEASE SEE THE CONSTRUCTION PLANS FOR DETAILS AND LOCATIONS, AS NEEDED.

#### VI. CONTROLS FOR OTHER POTENTIAL POLLUTANTS

#### A. WASTE DISPOSAL

THE CONTRACTOR SHALL PROVIDE LITTER COLLECTION CONTAINERS WITHIN THE PROJECT BOUNDARIES DURING CONSTRUCTION. CONTRACTOR SHALL DISPOSE OF ALL UNSUITABLE MATERIALS AND CONSTRUCTION DEBRIS IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REQUIREMENTS.

#### **B. DUST CONTROL**

TO PREVENT OFF-SITE VEHICULAR TRACKING OF SEDIMENTS AND DUST GENERATION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE ESTABLISHED BY THE SITE CONTRACTOR. PLEASE SEE THE STORMWATER POLLUTION PREVENTION PLAN (C0.21) FOR DETAILS AND LOCATION(S).

C. EXISTING VERSUS PROPOSED POTABLE AND SANITARY SEWER SYSTEMS

THERE ARE EXISTING SANITARY SEWER AND POTABLE WATER SYSTEMS LOCATED ON THE PROJECT SITE. EXTENSION AND UPGRADES ARE PROPOSED. IF TEMPORARY SANITARY SYSTEMS ARE UTILIZED DURING CONSTRUCTION, THE CONTRACTOR SHALL PROPERLY CONTROL AND DISCHARGE ANY SANITARY WASTE IN ACCORDANCE WITH ALL APPLICABLE LOCAL. STATE. AND FEDERAL REGULATIONS.

#### D. FERTILIZER & PESTICIDES

THE USE OF FERTILIZERS, HERBICIDES, AND PESTICIDES ON THE PROJECT SITE, WILL BE DIRECTED BY THE LANDSCAPE PLAN AND THE FDOT STANDARD SPECIFICATIONS SECTION 570. TO SUPPORT THE GROWTH OF THE PROPOSED VEGETATION. ESTABLISHING THIS VEGETATION WILL AID IN THE STABILIZATION OF THE PROJECT SITE AND REDUCE EROSION. APPLICATION RATES FOR THE FERTILIZERS, HERBICIDES, AND PESTICIDES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS TO GUARD AGAINST OVER-USE, WHICH CAN LEAD TO VIOLATIONS OF STATE WATER QUALITY STANDARDS.

#### E. TOXIC MATERIAL

THE CONSTRUCTION SITE WILL BE IN FULL COMPLIANCE WITH STATE AND FEDERAL REQUIREMENTS. A PLASTIC MAT, TAR PAPER, OR OTHER IMPERVIOUS MATERIAL SHALL BE PLACED UNDER AREAS WHERE TOXIC LIQUIDS ARE TO BE OPENED AND STORED.

#### F. HAZARDOUS MATERIALS

ALL HAZARDOUS MATERIALS SHALL BE STORED IN A SECURE LOCATION, UNDER COVER, AND IN APPROPRIATE TIGHTLY, SEALED CONTAINERS WHEN NOT IN USE. ALL PRODUCTS SHALL BE STORED IN AND USED FROM THE ORIGINAL CONTAINER WITH THE ORIGINAL PRODUCT LABEL. CONTAINERS MUST BE STORED IN A MANNER TO PROTECT THEM FROM THE ELEMENTS AND INCIDENTAL DAMAGE. THE MINIMUM PRACTICAL QUANTITY OF ALL SUCH MATERIALS SHALL BE KEPT ON THE JOB SITE AND SCHEDULED FOR DELIVERY AS CLOSE TO TIME OF USE AS PRACTICAL.

ALL PRODUCTS SHALL BE USED IN STRICT COMPLIANCE WITH THE INSTRUCTIONS ON THE PRODUCT LABEL.

SUFFICIENT EQUIPMENT AND/OR MATERIALS SHALL BE KEPT ONSITE TO CONTAIN AND CLEAN UP SPILLS OF HAZARDOUS MATERIALS IN THE AREAS WHERE THESE MATERIALS ARE STORED OR USED. SPILL CONTROL AND CONTAINMENT KIT SUPPLIES SHALL BE OF SUFFICIENT QUANTITIES AND APPROPRIATE CONTENT TO CONTAIN A SPILL FROM THE LARGEST ANTICIPATED PIECE OF EQUIPMENT AND FROM THE LARGEST ANTICIPATED QUANTITIES OF PRODUCTS STORED ON THE SITE AT ANY

CONTRACTOR TO CONTAIN AND CLEAN UP ANY SPILLS IMMEDIATELY AFTER THEY OCCUR. ANY SPILLS OF PETROLEUM PRODUCTS OR HAZARDOUS MATERIALS IN EXCESS OF REPORTABLE QUANTITIES AS DEFINED BY EPA, STATE, OR LOCAL AGENCY REGULATIONS SHALL BE REPORTED TO THE APPROPRIATE AGENCIES IN THE REQUIRED TIME FRAMES. THE CONTRACTOR SHALL PROVIDE A WRITTEN NOTICE TO THE OWNER IMMEDIATELY UPON IDENTIFICATION OF ANY SPILL.

ALL EXCESS, USED, OR SPILLED PRODUCTS, INCLUDING CONTAMINATED SOIL, SHALL BE DISPOSED OF BY THE CONTRACTOR IN STRICT COMPLIANCE WITH INSTRUCTIONS ON THE PRODUCT LABEL AND ALL APPLICABLE REGULATIONS.

#### VII. APPROVED STATE AND LOCAL PLANS

THE CONSTRUCTION DRAWINGS FOR THE PROJECT WERE APPROVED AND PERMITTED BY THE FOLLOWING AGENCIES:

#### \* CITY OF GAINESVILLE \* GAINESVILLE REGIONAL LITH ITIES

\* ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

#### VIIL CONSTRUCTION ACTIVITY DISCHARGES

IN ACCORDANCE WITH THIS PLAN, THERE ARE NO ANTICIPATED DISCHARGES OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES.

#### IX. CHANGES TO THE POLLUTION PREVENTION PLAN

THIS STORMWATER POLLUTION PREVENTION PLAN SHALL BE AMENDED TO REFLECT ANY APPLICABLE CHANGE IN A STATE, REGIONAL, OR LOCAL PERMIT FOR WHICH THE PERMITTEE RECEIVES WRITTEN NOTICE. WHEN WRITTEN NOTICE IS RECEIVED, THE PERMITTEE SHALL PROVIDE A RE-CERTIFICATION OF THIS POLLUTION PREVENTION PLAN, WHICH HAS BEEN REVISED TO ADDRESS SUCH CHANGES. AMENDMENTS TO THE PLAN SHALL BE PREPARED, SIGNED, DATE, AND KEPT AS ATTACHMENTS TO THE

#### X. ALTERNATIVE PERMIT REQUIREMENTS

NO ALTERNATIVE PERMIT REQUIREMENTS ARE REQUESTED

#### XI. MAINTENANCE

ORIGINAL PLAN.

THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE, INSPECTION SCHEDULE, AND REPAIRS OUTLINED IN THIS PLAN. MAINTENANCE SHALL CONTINUE THROUGHOUT THE PROJECT UNTIL WORK IS COMPLETE. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER CONSTRUCTION IS COMPLETE. IN ADDITION TO THE TIMES MENTIONED IN THE PREVIOUS SECTIONS, THE CONTRACTOR SHALL INITIATE ANY REPAIRS WITHIN 24 HOURS OF BEING REPORTED. IN THE EVENT THAT THE SMF(S) DO NOT PERFORM PROPERLY OR IF A SINKHOLE DEVELOPS, THE PROJECT ENGINEER SHALL BE NOTIFIED TO ASSIST IN COORDINATING REMEDIAL ACTION. ACCUMULATED SEDIMENT SHALL BE REMOVED FROM SILT FENCING WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE SILT FENCE. UPON FINAL COMPLETION OF CONSTRUCTION AND ACCEPTANCE BY BOTH THE CITY AND OWNER. THE OPERATION AND MAINTENANCE ENTITY WILL BE "CITY OF GAINESVILLE - WILD SPACES & PUBLIC PLACES".

#### **XII. INSPECTIONS**

THE CONTRACTOR SHALL INSPECT ALL POINTS OF POTENTIAL DISCHARGE FROM THE PROJECT SITE FOR ALL DISTURBED AREAS ON THE CONSTRUCTION SITE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.50 INCHES OR GREATER. FOR POINTS OF DISCHARGE INTO SURFACE WATERS OF THE STATE OR AN MS4. A OUALIFIED INSPECTOR (PROVIDED BY THE OPERATOR) SHALL PERFORM THE REOUIRED INSPECTIONS. THE CONTRACTOR SHALL INSTALL A RAIN GAUGE AT THE SITE TO MONITOR AND DOCUMENT RAINFALL EVENTS 0.50 INCHES OR GREATER. LOCATIONS WHERE THE SITE IS COMPLETELY CONSTRUCTED AND STABILIZED, SUCH INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE A MONTH. ALL INSPECTIONS SHALL BE RECORDED ON THE CONSTRUCTION INSPECTION FORM. THE CONTRACTOR MAY USE THEIR OWN FORM (MEETING FDEP SWPPP REQUIREMENTS) OR A SAMPLE FORM FROM FDEP. A SAMPLE CONSTRUCTION FORM IS AVAILABLE AT: "HTTPS://FLORIDADEP.GOV/WATER/STORMWATER/DOCUMENTS/CONSTRUCTION-SWPPP". MORE SPECIFICALLY, THE INSPECTION SHALL ENSURE THE FOLLOWING CATEGORIES.

#### A. DISTURBED AREAS

ALL DISTURBED AREAS AND AREAS USED FOR MATERIAL STORAGE SHALL BE INSPECTED FOR POLLUTANTS ENTERING THE STORMWATER SYSTEM. THE STORMWATER MANAGEMENT SYSTEM AND EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE INSPECTED TO ENSURE THEY ARE OPERATING CORRECTLY. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING.

#### **B. MAINTENANCE PERFORMANCE**

BASED ON THE RESULTS OF THE INSPECTION, ALL MAINTENANCE OPERATIONS NEEDED TO ASSURE PROPER COMPLIANCE WITH THIS PLAN SHALL BE DONE IN A TIMELY MANNER, BUT IN NO CASE LATER THAN 7 DAYS FOLLOWING THE INSPECTION.

#### C. REPORTING REOUIREMENTS

ALL INSPECTIONS SHALL BE RECORDED ON THE CONSTRUCTION INSPECTION FORM. THIS FORM IS CREATED TO SUMMARIZE THE SCOPE OF THE INSPECTION, THE NAME(S) AND QUALIFICATION OF THE INSPECTOR(S), THE DATE OF INSPECTION, RAINFALL DATA, OBSERVATIONS, THE ACTIONS TAKEN TO CORRECT INCIDENTS OF NON-COMPLIANCE WITH THE PROVISIONS OF THIS PLAN. IF NO INCIDENTS OF NON-COMPLIANTS ARE OBSERVED, THE REPORT SHALL CONTAIN A CERTIFICATION THAT THE FACILITY IS IN COMPLIANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN AND THE ASSOCIATED PERMIT

#### PURSUANT TO SECTION XV REGARDING PROJECT RECORDS.

#### **XVI. NOTICE OF TERMINATION**

TO THE DATE OF FINAL STABILIZATION.

- NOTICE OF TERMINATION:
- **FI IMINATED**

2600 BLAIR STONF ROAD

#### XIII. NON-STORMWATER DISCHARGES

IN ADDITION TO STORMWATER RUNOFF, THIS PLAN APPLIES TO RUNOFF FROM IRRIGATION OPERATIONS AND CONSTRUCTION PRACTICES. THIS PLAN DOES NOT PERTAIN TO DISCHARGES FROM FIRE FIGHTING ACTIVITIES.

#### XIV. CONTRACTORS CERTIFICATION

THE CONTRACTORS OR SUB-CONTRACTORS SHALL PHOTOCOPY AND COMPLETE THE FORM ON THIS PAGE. IT SHALL BE PROVIDED TO THE OWNER AND KEPT ON FILE

#### **XV. RETENTION OF RECORDS**

THE PERMITTEE SHALL RETAIN COPIES OF STORMWATER POLLUTION PREVENTION PLANS AND ALL REPORTS REQUIRED BY THIS PERMIT. AND RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT, FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED.

THE PERMITTEE SHALL RETAIN A COPY OF THE STORMWATER POLLUTION PREVENTION PLAN AND ALL REPORTS, RECORDS, AND DOCUMENTATION REQUIRED BY THIS PERMIT AT THE CONSTRUCTION SITE, OR AN APPROPRIATE ALTERNATIVE LOCATION AS SPECIFIED IN THE NOTICE OF INTENT, FROM THE DATE OF PROJECT INITIATION

WHERE A SITE HAS BEEN FINALLY STABILIZED AND ALL STORMWATER DISCHARGES AUTHORIZED BY THIS PERMIT ARE ELIMINATED, THE PERMITTEE SHALL SUBMIT A NOTICE OF TERMINATION (DEP FORM 62-621.300(6)), SIGNED IN ACCORDANCE WITH PART VII.C OF DEP DOCUMENT NO. 62-621.300(4)(a), WITHIN 14 DAYS OF FINAL STABILIZATION OF THE SITE TO TERMINATE COVERAGE UNDER THIS PERMIT. ELIMINATION OF STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY MEANS THAT ALL DISTURBED SOILS AT THE SITE HAVE BEEN FINALLY STABILIZED AND TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN REMOVED OR WILL BE REMOVED AT AN APPROPRIATE TIME, OR THAT ALL STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FROM THE SITE THAT ARE AUTHORIZED BY THIS GENERIC PERMIT HAVE OTHERWISE BEEN

3. FOR CONSTRUCTION ACTIVITIES WHERE THE OPERATOR CHANGES, THE EXISTING OPERATOR SHALL FILE AN N.O.T. IN ACCORDANCE WITH THIS PART WITHIN 14 DAYS OF RELINOUISHING CONTROL OF THE PROJECT TO A NEW OPERATOR

THE PERMITTEE SHALL SUBMIT A NOTICE OF TERMINATION TO THE FOLLOWING ADDRESS:

NPDES STORMWATER NOTICES CENTER, MS# 2510 FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

TALLAHASSEE. FLORIDA 32399-2400

PROJECTS THAT DISCHARGED STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY TO A MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) SHALL SUBMIT A COPY OF THE N.O.T. TO THE OPERATOR OF THE MS4.

#### **Contractor/Subcontractor Certification Statement** Stormwater Pollution Prevention Plan

Site Name: Forest Park Site Location: 1501 SW 20th Avenue Alachua County, Florida

DATE

LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORMWATER POLLUTION PREVENTION PLAN PREPARED THEREUNDE

THE CONTRACTOR(S) OR SUB-CONTRACTOR(S) RESPONSIBLE FOR COMPLYING WITH THIS STORMWATER POLLUTION PREVENTION PLAN SHALL SIGN THE CERTIFICATION STATEMENT BELOW. MULTIPLE COPIES OF THIS CERTIFICATION STATEMENT MAY BE NECESSARY DEPENDING ON THE NUMBER OF SUB-CONTRACTORS ASSOCIATED WITH THE PROJEC I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND, AND SHALL COMPLY WITH. THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM

RESPONSIBLE INDIVIDUAL'S NAME	RESPONSIBLE INDIVIDUAL'S SIGNATURE	TITLE	COMPANY NAME, ADDRESS, AND PHONE NUMBER

**ORIDA** CA-507F 5 5 5 8 8 TRAVIS I. HASTA FL PE No. 84295 **C0.20** 

![](_page_8_Picture_0.jpeg)

![](_page_9_Figure_0.jpeg)

![](_page_10_Figure_0.jpeg)

![](_page_11_Picture_0.jpeg)

	4	
	<b>GRAPHIC SCALE</b> 0 40 80 160	CHARCHUA, Florida 32615 (352) 331-1976 www.chw-inc.com         Professional Consultants         est. 1988 FLORIDA CA-5075
		SCALE: 1"=80' VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING 0 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
COORDINATI REFERENCE N: 237497.9 E: 2638999.		DF GAINESVILLE, GRU, AND SJRWMD AINESVILLE, GRU, AND SJRWMD
		TY OF GAINESVILLE         SUBMITTALS:           12/06/2021         FIRST SUBMITTAL TO CITY OF G           3/11/2022         RESUBMITTAL TO CITY OF G           3/18/2022         DOCUMENTS           FOREST PARK WSPP         10/06/2022           MASTER SITE PLAN         10/06/2022
		TECHNICIAN:     CLIENT:       K MERRITT     CLIENT:       K MERRITT     CLIENT:       DESIGNER:     PROJECT:       DUALITY CONTROL:     PROJECT:       QUALITY CONTROL:     PROJECT:       PROJECT NUMBER:     SHEET TITLE:       PROJECT NUMBER:     21-0219
COORDINATE REFERENCE N: 236784.4050 E: 2639009.3610		FL PE No. 84295 SHEET NO.: C1.00

![](_page_12_Figure_0.jpeg)

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S TRUCTURE:	STORMWATER S	TRUC	INVERT ELEV	<b>FAB</b> PIPE DIA.	NORTHING & EASTING		HH. GREEN					
S TRUCTURE: S-1	STORMWATER S STRUCTURE TYPE	тор 63.50	INVERT ELEV	PIPE DIA.	<b>LE</b> NORTHING & EASTING N: 237631.78 E: 2638338.51		HH, GREEN					
S TRUCTURE: S-1 S-2	STORMWATER S STRUCTURE TYPE 18" AREA DRAIN 18" AREA DRAIN	тор 63.50 64.32	<b>TURE 1</b> INVERT ELEV 60.76 S 62.57 N	PIPE           DIA.           12"           12"	NORTHING & EASTING           N: 237631.78           E: 2638338.51           N: 237005.19           E: 2638758.37		HH, GREEN					
S-1 5-2 5-3	STRUCTURE TYPE 18" AREA DRAIN 18" AREA DRAIN 18" AREA DRAIN	тор 63.50 64.32 63.30	<b>TURE 1</b> INVERT ELEV 60.76 S 62.57 N 62.01 S 62.01 W 62.01 E 62.01 N	PIPE           DIA.           12"           12"           12"           8"	NORTHING & EASTING           N: 237631.78           E: 2638338.51           N: 237005.19           E: 2638758.37           N: 237194.69           E: 2638743.34		HH. GREEN					
<b>S</b> TRUCTURE: S-1 S-2 S-3 S-3	STORMWATER       S         STRUCTURE TYPE       18" AREA DRAIN         18" AREA DRAIN       18" AREA DRAIN         18" AREA DRAIN       18" AREA DRAIN	TOP         63.50         64.32         63.30         63.66	<b>TURE 1</b> INVERT ELEV 60.76 S 62.57 N 62.01 S 62.01 W 62.01 E 62.01 N 61.77 E 61.77 W	PIPE           DIA.           12"           12"           12"           15"           8"           15"           15"	NORTHING & EASTING           NORTHING & EASTING           N: 237631.78           E: 2638338.51           N: 237005.19           E: 2638758.37           N: 237194.69           E: 2638743.34           N: 237201.94           E: 2638663.80		HH GREEN					
<b>S</b> TRUCTURE: S-1 S-2 S-3 S-3 S-4 S-5	STORMWATER       S         STRUCTURE TYPE       18" AREA DRAIN         18" AREA DRAIN       18" AREA DRAIN         18" AREA DRAIN       18" AREA DRAIN         SIDE DRAIN MES PER FDOT INDEX 430-022       18" AREA DRAIN	TOP         63.50         64.32         63.30         63.66         N/A	INVERT ELEV         60.76 S         62.57 N         62.01 S         62.01 E         62.01 N         61.77 E         61.30 E	PIPE           DIA.           12"           12"           12"           15"           8"           15"           15"	NORTHING & EASTING           NORTHING & EASTING           N: 237631.78           E: 2638338.51           N: 237005.19           E: 2638758.37           N: 237194.69           E: 2638743.34           N: 237201.94           E: 2638663.80           N: 237198.04           E: 2638507.66		HH. GREEN					
S TRUCTURE: S-1 S-2 S-3 S-4 S-5 S-6	STORMWATER       S         STRUCTURE TYPE       18" AREA DRAIN         18" AREA DRAIN       18" AREA DRAIN	TOP         63.50         64.32         63.30         63.66         N/A         64.80	<b>TURE</b> INVERT ELEV           60.76 S           62.57 N           62.01 S           62.01 E           62.01 N           61.77 E           61.77 W           61.30 E           60.70 N           60.70 S	PIPE DIA.           12"           12"           12"           12"           15"           15"           15"           12"	NORTHING & EASTING           NORTHING & EASTING           N: 237631.78           E: 2638338.51           N: 237005.19           E: 2638758.37           N: 237194.69           E: 2638743.34           N: 237201.94           E: 2638663.80           N: 237198.04           E: 2638507.66           N: 237610.09           E: 2638338.60		HH. GREEN					
S TRUCTURE: 5-1 5-2 5-3 5-4 5-5 5-6 5-7	STORMWATER       S         STRUCTURE TYPE       18" AREA DRAIN         18" AREA DRAIN       18" AREA DRAIN	TOP         63.50         64.32         63.66         N/A         64.80         62.70	<b>TURE I</b> INVERT ELEV       60.76 S         62.57 N       62.01 S         62.01 E       62.01 W         62.01 E       62.01 N         61.77 E       61.77 W         61.30 E       60.70 N         60.70 S       60.68 W	PIPE DIA.           12"           12"           12"           12"           15"           15"           15"           15"           12"           12"	NORTHING & EASTING           NORTHING & EASTING           N: 237631.78           E: 2638338.51           N: 237005.19           E: 2638758.37           N: 237194.69           E: 2638743.34           N: 237194.69           E: 2638663.80           N: 237198.04           E: 2638507.66           N: 237610.09           E: 2638338.60           N: 237453.38           E: 2638467.93		HH. GREEN					
S TRUCTURE: 5-1 5-2 5-3 5-3 5-4 5-5 5-6 5-6 5-7 5-8	STORMWATER       S         STRUCTURE TYPE       18" AREA DRAIN         18" AREA DRAIN       18" AREA DRAIN         5IDE DRAIN MES PER FDOT INDEX 430-022       18" AREA DRAIN         18" AREA DRAIN       18" AREA DRAIN         18" AREA DRAIN       5TORM CLEANOUT	TOP         63.50         64.32         63.66         N/A         64.80         62.70         63.10	INVERT ELEV         60.76 S         62.57 N         62.01 S         62.01 W         62.01 E         62.01 N         61.77 E         61.77 W         61.30 E         60.70 S         60.68 W         60.18 E         60.18 S         60.18 S	PIPE DIA.           12"           12"           12"           12"           12"           15"           15"           15"           12"           12"           12"           12"           12"           15"           15"           15"           15"           12"           12"           12"           12"           12"	NORTHING & EASTING           NORTHING & EASTING           N: 237631.78           E: 2638338.51           N: 237005.19           E: 2638758.37           N: 237194.69           E: 2638743.34           N: 237194.69           E: 2638663.80           N: 237198.04           E: 2638507.66           N: 237610.09           E: 2638338.60           N: 237453.38           E: 2638467.93           N: 237441.46           E: 2638369.44		HH GREEN					
S TRUCTURE: 5-1 5-2 5-3 5-3 5-4 5-5 5-6 5-7 5-8 5-8 5-9	STORMWATER       S         STRUCTURE TYPE       18" AREA DRAIN         18" AREA DRAIN       18" AREA DRAIN         SIDE DRAIN MES PER FDOT INDEX 430-022       18" AREA DRAIN         18" AREA DRAIN       STORM CLEANOUT         SIDE DRAIN MES PER FDOT INDEX 430-022       STORM CLEANOUT	TOP         63.50         64.32         63.30         63.66         N/A         64.80         62.70         63.10         N/A	CTURE         INVERT ELEV           60.76 S         62.57 N           62.01 S         62.01 W           62.01 E         62.01 N           61.77 E         61.77 W           61.30 E         60.70 N           60.70 S         60.68 W           60.18 E         60.18 N           60.00 N         60.00 N	PIPE DIA.           12"           12"           12"           12"           15"           15"           15"           15"           15"           12"           15"           15"           15"           15"           15"           15"           12"           15"           15"           12"           12"           12"           12"           15"           12"           15"           15"           15"	NORTHING & EASTING           NORTHING & EASTING           N: 237631.78           E: 2638338.51           N: 237005.19           E: 2638758.37           N: 237194.69           E: 2638743.34           N: 237194.69           E: 2638663.80           N: 237198.04           E: 2638507.66           N: 237610.09           E: 2638338.60           N: 237453.38           E: 2638369.44           N: 237406.01           E: 2638361 \$7		HH GREEN					607
S TRUCTURE: S-1 S-2 S-3 S-4 S-5 S-6 S-7 S-6 S-7 S-8 S-9 S-10	<b>STRUCTURE TYPE</b> 18" AREA DRAIN         SIDE DRAIN MES PER FDOT         18" AREA DRAIN         18" AREA DRAIN         STORM CLEANOUT         SIDE DRAIN MES PER FDOT         INDEX 430-022         18" AREA DRAIN         STORM CLEANOUT         SIDE DRAIN MES PER FDOT         INDEX 430-022         18" AREA DRAIN	TOP         63.50         64.32         63.30         63.66         N/A         64.80         62.70         63.10         N/A         64.80	INVERT ELEV         60.76 S         62.57 N         62.01 S         62.01 W         62.01 E         62.01 N         61.77 E         61.77 W         61.30 E         60.70 N         60.70 S         60.18 E         60.18 S         60.18 N         60.00 N         63.51 W	PIPE         DIA.         12"         12"         12"         15"         8"         15"         15"         12"         12"         12"         12"         12"         15"         15"         15"         12"         15"         8"	NORTHING & EASTING           NORTHING & EASTING           N: 237631.78           E: 2638338.51           N: 237005.19           E: 2638758.37           N: 237194.69           E: 2638743.34           N: 237201.94           E: 2638507.66           N: 237198.04           E: 2638507.66           N: 237453.38           E: 2638366.01           N: 237441.46           E: 2638369.44           N: 237406.01           E: 2638361.87           N: 237195.10           E: 2638992.10		HH. GREEN HH. GREEN					607
TRUCTURE:         S-1         S-2         S-3         S-4         S-5         S-6         S-7         S-8         S-9         S-10         S-11	<b>TORMWATER</b> STRUCTURE TYPE18" AREA DRAIN18" AREA DRAIN18" AREA DRAIN18" AREA DRAIN18" AREA DRAINSIDE DRAIN MES PER FDOT18" AREA DRAIN18" AREA DRAINSIDE MAIN MES PER FDOT18" AREA DRAINSIDE DRAIN MES PER FDOT18" AREA DRAIN18" AREA DRAIN18" AREA DRAINSTORM CLEANOUTSIDE DRAIN MES PER FDOTINDEX 430-02218" AREA DRAINSIDE DRAIN MES PER FDOT18" AREA DRAIN18" AREA DRAIN18" AREA DRAIN18" AREA DRAIN	TOP         63.50         64.32         63.66         N/A         64.80         62.70         63.10         N/A         63.10         63.75	INVERT ELEV         60.76 S         62.57 N         62.01 S         62.01 W         62.01 E         62.01 N         61.77 E         61.77 W         61.30 E         60.70 N         60.70 S         60.68 W         60.18 E         60.18 N         60.00 N         63.51 W         61.48 E         61.48 W	PIPE         DIA.         12"         12"         12"         15"         8"         15"	NORTHING & EASTING           NORTHING & EASTING           N: 237631.78           E: 2638338.51           N: 237005.19           E: 2638758.37           N: 237194.69           E: 2638743.34           N: 237194.69           E: 2638743.34           N: 237194.69           E: 2638743.34           N: 237198.04           E: 2638663.80           N: 237198.04           E: 2638663.80           N: 237198.04           E: 2638667.06           N: 237453.38           E: 2638360.44           N: 237441.46           E: 2638361.87           N: 237195.10           E: 2638992.19           N: 237202.27           E: 2638567.07		HH GREEN				606	607
TRUCTURE:         S-1         S-2         S-3         S-4         S-5         S-6         S-7         S-8         S-9         S-10         S-11         S-12	<b>TORMWATER</b> STRUCTURE TYPE18" AREA DRAIN18" AREA DRAIN18" AREA DRAIN18" AREA DRAIN18" AREA DRAINSIDE DRAIN MES PER FDOT INDEX 430-02218" AREA DRAIN18" AREA DRAINSTORM CLEANOUTSIDE DRAIN MES PER FDOT INDEX 430-02218" AREA DRAIN18" AREA DRAIN	TOP         63.50         64.32         63.66         N/A         63.66         N/A         64.80         63.10         N/A         63.10         N/A         63.75         63.58	INVERT ELEV         60.76 S         62.57 N         62.01 S         62.01 W         62.01 E         62.01 N         61.77 E         61.77 W         61.30 E         60.70 N         60.70 S         60.68 W         60.18 E         60.18 N         60.00 N         63.51 W         62.25 S         62.25 S         62.25 S	PIPE DIA.           12"           12"           12"           12"           12"           15"           15"           15"           15"           15"           15"           15"           15"           15"           15"           12"           12"           15"           15"           12"           12"           12"           12"           12"           12"           15"           12"           12"           12"           12"           12"           12"           12"           12"           12"           12"           15"           12"	NORTHING & EASTING           NORTHING & EASTING           N: 237631.78           E: 2638338.51           N: 237005.19           E: 2638758.37           N: 237194.69           E: 2638758.37           N: 237194.69           E: 2638743.34           N: 237194.69           E: 2638743.34           N: 237198.04           E: 2638663.80           N: 237198.04           E: 2638507.66           N: 23740.09           E: 2638338.60           N: 237453.38           E: 2638369.44           N: 237406.01           E: 2638361.87           N: 237195.10           E: 2638567.07           P: 237202.27           E: 2638567.07           N: 237112.61           E: 2638739.35		HH GREEN				606	607
STRUCTURE:         S-1         S-2         S-3         S-4         S-5         S-6         S-7         S-8         S-9         S-10         S-11         S-12         S-13	<b>TORMWATER</b> STRUCTURE TYPE18" AREA DRAIN18" AREA DRAIN18" AREA DRAIN18" AREA DRAIN18" AREA DRAINSIDE DRAIN MES PER FDOT18" AREA DRAIN18" AREA DRAIN18" AREA DRAINSTORM CLEANOUTSIDE DRAIN MES PER FDOTINDEX 430-02218" AREA DRAIN18" AREA DRAIN18" AREA DRAINSTORM CLEANOUTSIDE DRAIN MES PER FDOT18" AREA DRAIN18" AREA DRAIN	TOP         63.50         64.32         63.66         N/A         63.60         N/A         64.80         63.10         N/A         64.80         63.70         63.75         63.58	INVERT ELEV         60.76 S         62.57 N         62.01 S         62.01 K         62.01 K         62.01 K         62.01 K         62.01 K         61.77 E         61.77 W         61.30 E         60.70 N         60.70 S         60.68 W         60.18 E         60.18 N         60.00 N         63.51 W         61.48 E         61.48 W         62.25 S         62.25 N         62.21 S	PIPE         DIA.         12"         12"         12"         12"         15"         8"         15"         15"         15"         15"         15"         15"         15"         15"         15"         12"         15"         15"         15"         12"         15"         12"         15"         12"         15"         15"         15"         8"         15"         8"         15"         12"         8"         15"         8"         15"         8"         15"         8"	NORTHING & EASTING           NORTHING & EASTING           N: 237631.78           E: 2638338.51           N: 237005.19           E: 2638758.37           N: 237194.69           E: 2638743.34           N: 237201.94           E: 2638743.34           N: 237201.94           E: 2638743.34           N: 237201.94           E: 26388663.80           N: 237198.04           E: 2638507.66           N: 237401.09           E: 2638338.60           N: 237453.38           E: 2638360.44           N: 237406.01           E: 2638361.87           N: 237195.10           E: 2638507.07           N: 237112.61           E: 2638739.35           N: 237260.04           E: 2638738.94		HH. GREEN HH. GREEN				606	607
S STRUCTURE: S-1 S-2 S-3 S-4 S-5 S-6 S-7 S-8 S-9 S-10 S-11 S-12 S-13 S-14	TORMWATERSTRUCTURE TYPE18" AREA DRAIN18" AREA DRAIN18" AREA DRAIN18" AREA DRAIN18" AREA DRAINSIDE DRAIN MES PER FDOT18" AREA DRAIN18" AREA DRAINSTORM CLEANOUTSIDE DRAIN MES PER FDOTI8" AREA DRAIN18" AREA DRAIN18" AREA DRAINSTORM CLEANOUT18" AREA DRAIN18" AREA DRAIN	TOP         63.50         64.32         63.66         N/A         64.80         62.70         63.10         N/A         64.80         63.75         63.58         63.50	INVERT ELEV         60.76 S         62.57 N         62.01 S         62.01 W         62.01 K         62.01 K         62.01 K         62.01 K         61.77 E         61.77 W         61.30 E         60.70 N         60.70 S         60.68 W         60.18 E         60.18 N         60.00 N         63.51 W         61.48 E         61.48 W         62.25 S         62.25 N         62.21 S         62.41 S         62.41 N	PIPE         DIA.         12"         12"         12"         15"         8"         15"         15"         15"         15"         15"         15"         15"         15"         15"         15"         15"         15"         15"         15"         15"         12"         15"         15"         15"         15"         8"         15"         12"         15"         12"         15"         12"         15"         12"         12"         12"         2         12"         2         12"         2         12"         2         12"         2         12"         2         12"         2         12"           2	NORTHING & EASTING           NORTHING & EASTING           N: 237631.78           E: 2638338.51           N: 237005.19           E: 2638758.37           N: 237194.69           E: 2638758.37           N: 237194.69           E: 2638743.34           N: 237194.69           E: 2638743.34           N: 237198.04           E: 2638663.80           N: 237198.04           E: 2638663.80           N: 237198.04           E: 2638663.80           N: 237453.38           E: 2638360.41           N: 237441.46           E: 2638361.87           N: 237406.01           E: 2638361.87           N: 237195.10           E: 2638567.07           N: 23712.21           P: 2638567.07           N: 237112.61           E: 2638739.35           N: 237260.04           E: 2638738.94           N: 237061.52           E: 2638752.90		HH GREEN				606	607

![](_page_15_Figure_1.jpeg)

![](_page_16_Picture_0.jpeg)

S	TORMWATER S	TRUC	TURE 1		LE
STRUCTURE:	STRUCTURE TYPE	ТОР	INVERT ELEV	PIPE DIA.	NORTHING & EASTING
S-1	18" AREA DRAIN	63.50	60.76 S	12"	N: 237631.78 E: 2638338.5
S-2	18" AREA DRAIN	64.32	62.57 N	12"	N: 237005.19 E: 2638758.37
S-3	18" AREA DRAIN	63.30	62.01 S 62.01 W 62.01 E 62.01 N	12" 15" 8" 8"	N: 237194.69 E: 2638743.34
S-4	18" AREA DRAIN	63.66	61.77 E 61.77 W	15" 15"	N: 237201.94 E: 2638663.80
S-5	SIDE DRAIN MES PER FDOT INDEX 430-022	N/A	61.30 E	15"	N: 237198.04 E: 2638507.66
S-6	18" AREA DRAIN	64.80	60.70 N 60.70 S	12" 12"	N: 237610.09 E: 2638338.60
S-7	18" AREA DRAIN	62.70	60.68 W	12"	N: 237453.38 E: 2638467.93
S-8	STORM CLEANOUT	63.10	60.18 E 60.18 S 60.18 N	12" 15" 12"	N: 237441.46 E: 2638369.44
S-9	SIDE DRAIN MES PER FDOT INDEX 430-022	N/A	60.00 N	15"	N: 237406.01 E: 2638361.87
S-10	18" AREA DRAIN	64.80	63.51 W	8"	N: 237195.10 E: 2638992.19
S-11	18" AREA DRAIN	63.75	61.48 E 61.48 W	15" 15"	N: 237202.27 E: 2638567.07
S-12	18" AREA DRAIN	63.58	62.25 S 62.25 N	12" 12"	N: 237112.61 E: 2638739.35
5-13	18" AREA DRAIN	63.50	62.21 S	8"	N: 237260.04 E: 2638738.94
S-14	18" AREA DRAIN	64.20	62.41 S 62.41 N	12" 12"	N: 237061.52 E: 2638752.90
5					

FIELD LIGHTING POLE (TYP) (REFER TO FIELD LIGHTING AND PHOTOMETRIC PLAN)

BRASS 90 BEND

576

/ 🖓 28"31".(

<u>64.67</u>

Plot Date: Oct 06,2022 4:52pm Filename: N:\2021\21-0219\departments\04\_engineering\02\_DWGs\production files\21-0219 C2.10 DG

L8

![](_page_16_Figure_4.jpeg)

![](_page_17_Figure_0.jpeg)

#### ALL REGULATED TREES IN AREAS OF DEMOLITION OR CONSTRUCTION THAT HAVE NOT BEEN PERMITTED NOR DESIGNATED FOR REMOVAL BY EITHER THE TERMS OF THE PERMIT OR APPROVED DEVELOPMENT ORDER SHALL BE PROTECTED BY BARRIER ZONES ERECTED AND INSPECTED PRIOR TO CONSTRUCTION OF ANY STRUCTURES, ROAD, UTILITY SERVICE OR OTHER IMPROVEMENTS. BARRICADES SHALL COMPLY WITH THE FOLLOWING.

1) PROTECTIVE BARRIERS SHALL BE CONSTRUCTED, AS NECESSARY, TO PREVENT THE DESTRUCTION OR DAMAGING OF REGULATED TREES THAT ARE LOCATED WITHIN 50 FEET OF ANY CONSTRUCTION ACTIVITY OR STORAGE OF EQUIPMENT

2) PROTECTIVE BARRIERS SHALL BE PLAINLY VISIBLE AND SHALL CREATE A CONTINUOUS BOUNDARY AROUND TREES OR VEGETATION CLUSTERS IN ORDER TO PREVENT ENCROACHMENT BY MACHINERY, VEHICLES OR STORED MATERIALS.

3) NO TRENCHING ALLOWED WITHIN THE PROTECTIVE BARRIER ZONE. HAND DIG TO INSTALL UTILITY IF APPROVED BY CITY MANAGER OR DESIGNEE. WHERE ROOTS GREATER THAN ONE INCH IN DIAMETER ARE DAMAGED OR EXPOSED, THEY SHALL BE CUT CLEANLY AND RE-COVERED WITH SOIL WITHIN ONE HOUR OF DAMAGE OR EXPOSURE.

4) PROTECTIVE BARRIERS SHALL REMAIN IN PLACE AND INTACT UNTIL SUCH TIME AS LANDSCAPE OPERATIONS BEGIN. IF CONSTRUCTION NEEDS DICTATE A TEMPORARY REMOVAL (FOR LESS THAN 24 HOURS), THE CITY MANAGER OR DESIGNEE, MAY APPROVE OR DENY THE TEMPORARY REMOVAL OF PROTECTIVE BARRIERS.

5) LANDSCAPE PREPARATION IN THE PROTECTED AREA SHALL BE LIMITED TO SHALLOW DISCING OF THE AREA. DISCING SHALL BE LIMITED TO A DEPTH OF 4 INCHES UNLESS SPECIFICALLY APPROVED OTHERWISE BY THE CITY MANAGER OR

6) NO BUILDING MATERIALS, MACHINERY OR HARMFUL CHEMICALS SHALL BE PLACED WITHIN PROTECTIVE BARRIERS, EXCEPT SHORT-DURATION PLACEMENTS OF CLEAN FILL SOIL THAT WILL NOT HARM THE TREE. SUCH SHORT DURATION PLACEMENTS SHALL NOT EXCEED SEVEN CALENDAR DAYS. THE CITY MANAGER OR DESIGNEE SHALL BE NOTIFIED OF THE DATES THE SHORT DURATION PLACEMENT WILL BEGIN AND END. THE ORIGINAL SOIL GRADE THAT EXISTED WITHIN THE PROTECTED AREAS PRIOR TO THE PLACEMENT OF SUCH FILL SHALL BE RESTORED.

7) THE AMERICAN NATIONAL STANDARDS INSTITUTE A-300 PART V: MANAGEMENT OF TREES AND SHRUBS DURING SITE PLANNING, SITE DEVELOPMENT, AND SITE CONSTRUCTION OR OTHER NATIONALLY RECOGNIZED ARBORICULTURAL STANDARDS APPROVED BY THE CITY MANAGER OR DESIGNEE SHALL BE USED AS GUIDELINES FOR TREE PROTECTION, PLANTING, PRUNING AND CARE DURING DEVELOPMENT AND CONSTRUCTION.

8) POSTS TO BE LOCATED AT DRIPLINE OF TREE FOR REGULATES PINES/PALMS <u>OR</u> A MINIMUM OF 2/3 THE AREA OF THE DRIPLINE FOR ALL OTHER REGULATED SPECIES <u>OR</u> AT THE TREE ROOT PLATE, WHICHEVER IS GREATEST (UNLESS OTHERWISE APPROVED BY THE URBAN FORESTRY INSPECTOR).

9) CALL THE CITY OF GAINESVILLE URBAN FORESTRY INSPECTOR 352-393-8188 TO SCHEDULE A BARRICADE INSPECTION PRIOR TO BEGINNING ANY CLEARING AND GRUBBING WORK.

> PLACE THE END POST OF ONE FENCE INSIDE THE END

12" STABILIZED TYPE B SUBGRADE MIN. LBR 40 COMPACTION 98%

AASHTO T-180

**TYPICAL ASPHALT** 

**PAVEMENT DETAIL** 

-MILL MINIMUM 1" AND RESURFACE

WITH 1" SP-9.5

NOTE

NTS

![](_page_17_Figure_12.jpeg)

3

# **AREA DRAIN BASIN DET**

![](_page_17_Figure_15.jpeg)

![](_page_17_Figure_16.jpeg)

# **RIP-RA**

![](_page_17_Figure_18.jpeg)

#### **ADJACENT TO PAVEMENT** NTS

**MILLING AND RESURFACING DETAIL** NTS

NO TRAFFIC IS ALLOWED ON THE MILLED SURFACE; ROADWAY

MUST BE RESURFACED AND STRIPED TO MATCH EXISTING

CONDITIONS PRIOR TO OPENING TO TRAFFIC

**CONCRETE S** 

							11801 Research Drive Alachua, Florida 32615 (352) 331-1976 www.chw-inc.com	est. 1988 <b>FLORIDA</b> CA-5075
ΑΤΕ							X	sional Consultants
GRATE							С U	Profess
TIGHT ER DY						SCALE:	N/A VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING	0 IF NOT ONE INCH OF THIS SHEET, ADJUST SCALES ACCORDINGL
<u>rail</u>								
D50 (TYP.)						CONSTRUCTION/BID REVISIONS:		
	POND BOTT NON-SUMPE RIP RAP LIN NON-SUMPE	TOM FOR ED OUTLET MITS FOR ED OUTLET					Y OF GAINESVILLE, GRU, AND SJRWMD GAINESVILLE, GRU, AND SJRWMD	
? SPREAD OUTLET Do ft) 75	RIP RAP SPREAD AT END OF APRON Wd (ft) 10.75	LENGTH OF APRON La (ft) 7.0	MEDIAN RIP RAP SIZE D50 (ft) 0.25			NBMITTALS:	2/06/2021 - FIRST SUBMITTAL TO CI1 //11/2022 - RESUBMITTAL TO CITY OF //18/2022 - DRAFT 100% DOCUMENTS //29/2022 - RESUBMITTAL TO SJRWME 0/06/2022 - BID SET	
75 <b>P API</b> /	10.75 RON DETA	7.0	0.25				TY OF GAINESVILLE FOREST PARK WSPP	ONSTRUCTION DETAILS
SH DE V V V	WIDTH - SE	E SITE PLAN	FI GI	NISH RADE 		CLIENT:	MERRITT CI SIGNER: THORNTON PROJECT: ALITY CONTROL	HASTAY SHEET TITLE: JJECT NUMBER: C 1 - C 1 1 C
BE CONSTRUC MED JOINT FILL D OBJECTS AN	(3000 P (3000 P COMPAC TED 5 FEET ON LER SHALL BE D WALK AND AT	SI, CLASS NS) ON CLEA CTED EARTH FILL.	N			ΨC	⊻ 🖾 Ü 时	
_N IDEW	OT ADJAC	ENT TO	PAVEM	ENT		SH	FL PE No. 8 EET NO.: <b>C2.</b>	<sup>4295</sup> <b>30</b>

![](_page_18_Figure_0.jpeg)

tatistics							-	ch Drive la 32615 331-1976 inc.com cA-5075
escription aved Parking	Symbol +	Avg 1.2 fc	Max 2.9 fc	Min 0.5 fc	Max/Min 5.8:1	Avg/Min 2.4:1	Code or Standard IES RP-20-14 Lighting of Parking Facilities: Parking Area R4 Asphalt5 fc minimum <4:1 Avg/Min, <15:1 Max/Min	DI Researciua, Florio (352) ? www.chw- 88 FLO
/L @ Fire Station	+	0.2 fc	0.9 fc	0.0 fc	N/A	N/A	< 1FTC, 30-6.12D.2.b.i.	118C
/L @ SW 20 Ave /L @SW 43 Street	+	0.1 fc 0.0 fc	2.6 fc 0.0 fc	0.0 fc 0.0 fc	N/A N/A	N/A N/A	< 5FTC 30-6 12D.2.b.iv	
/L South (Multifamily)	+	0.0 fc	0.0 fc	0.0 fc	N/A	N/A	< 1FTC, 30-6.12D.2.b.i.	
/L West rea West and South of Parking	+	0.0 fc 0.1 fc	0.0 fc 1.1 fc	0.0 fc 0.0 fc	N/A N/A	N/A N/A	N/A, INFORMATIONAL PURPOSES ONLY	
NO LIGHT ABOUT 90 DEGREES LUMINAIRES ARE FULL CUT-OF THE MAXIMUM MOUNTING HEIO ALL PARKING LOT LIGHTING AF THE LUMINAIRES AND ARMS AF POLES ARE 35' CONCRETE POL LIGHTS ARE CONTROLLED BY I THE LIGHTING DESIGN MEETS LOT LIGHTING (30-6.12.E.4.a&b) POLES ARE TO BE INSTALLED 3 CUSTOMER MUST COMLETE A COORDINATE INSTALLATION W SIDEWALK LIGHTING NOT WITH PHOTOMETRICS INCLUDE GRU FIXTURE A	ABOVE HO F. SHT IS 30' RE GRU RE RE TO BE LES BURIE NDIVIDUA THE SPEC B BEHIND GRU REN' ITH GRU IIN SCOPE RENTAL I	ORIZONTA (30-6.12.E ENTAL LIC GREY D 5' WITH L PHOTO DIFIC ILLU BACK OF TAL LIGHT OF THIS LIGHTS O	AL PLANE D.1.e). GHTS ANI CELLS. MINATIO CURB O TING APF PROJEC NLY, NO	E AT FIXT D POLES S FOR 3 N REQUII R 1' FRO PLICATION T. SPORTS	URE HEIGH	HT FOR PARKIN K	NG	SCALE: SCALE: 1"=20' VERIFY SCALE VERIFY SCALE BAR IS ONE INCH ON O OFICINAL DRAWING O OFICINAL DRAWING F NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
4.2" 4.2" <b>GENERAL ELE</b> Descript LUMINAIRE, LED ROADWAY C DIE-CAST ALUMINUM HOUSING SPECIFICATIONS ON PAGE L	CTRIC LIG		6.4	.'' Manufact	5.2	(130) EOI L Catalo	12.4 (315) IGHTING g No. Stock No.	CONSTRUCTION/BID REVISIONS:
SPECIFICATIONS: LAMP WATTAGE RANGE: 140 LUMEN RANGE: 12,500 TO 13, VOLTAGE: 120 - 277 VOLTS ( LIGHT DISTRIBUTION - IES TYP COLOR TEMPERATURE (CCA) COLOR RENDERING INDEX: 70 OPERATING TEMPERATURE: -4 SURGE PROTECTION (MIN.): 10 INTERNAL BUBBLE LEVEL TOOL-LESS ENTRY EXTERNAL FIELD I.D. MARKE YELLOW "3" ON BLACK BAC ADJUSTABLE SLIPFITTER 1-1/ COLOR: GRAY WEIGHT: 20 - 25 LBS.	TO 155 WA 500 WIRED FOF E: III : 3,000 K. +/ TO 122 F. DKV/5kA <b>R: A REFLE KGROUND</b> 4" TO 2"	ATTS R 120V.) 7- 300 CTIVE (1-1/2" TAL	GEN EOI (DC LL) GEN GEN	IERAL ELEC ("e-lite-sta EE, INC. DES NOT M VERAL ELEC IERAL ELEC	TED MEET MIN. LU ECTRIC .OG NUMBE (SEE AE	ERLH-0-1 GRAY-GL ESU-FA01 135FIU <sup>-</sup> <i>BXSP-C-F</i> <i>30K-UL-S</i> <i>WITH XA</i> <b>JMEN REQUI</b> <i>ERLH-0-1</i> <i>GRAY-GL</i> <b>R HAS BEEN</b> <b>30VE</b> )	3-C3-30-A- R-052 3P03230M- 1-1542N <i>AT-3ME-F-</i> <i>V-N-Q9</i> <i>-XSP4TMNT</i> <b>REMENTS</b> ) <i>3-G1-30-A-</i> <i>R</i> <b>NREVISED</b> RL1-39902-7 39902-7	BMITTALS: 03/11/20 VOLLEYBALL LIGHTING ADDED 10/6/22 MOVED L2
NOTE: 20 YEAR PHOTOCONTROL STANDARDS RACE R 5 4			:					LE, INC. LANNING OR
Revision Date:         9-26-17 KLC         10-4-17 KLC         3-9-18 KLC         10-1-18 KLC         3-18-19 KLC	<b>GR</b> than Ener <u>E</u> <u>REV.</u> > LU	U rgy JMINAIF	E RE, LEC	Gai Electric S D ROAL	nesville System Ap DWAY CL	Regiona oproved M JTOFF 3	al Utilities Iaterials Manual (3000K) (III) - GRAY	JENT: JENT: AUSSEAUX, HEWETT, & WALPC AUSSEAUX, HEWETT, & WALPC GOIEETING - SURVEYING - F ROLEET PARK SPORTSLIGHTING EET TITLE: PHOTOMETRIC PLAN F PARKING LOT
	LIG	HTING SEAL	PLAN	PREP	ARED B WILLIA ELECT 5304 N storma (352) 6 P.E. No	Y WILLI AM T. ST FRICAL JW 173 S ntwt@co 565-1426 o.: 4415	This item has been digitally signed and sealed by Willian T. Stormant, PE, on the date Indicated here. Printed copies of this docum are not considered signed an sealed and the signature mu be verified on any electronic copies. AM T. STORMANT, P.E. FORMANT, P.E. ENGINEER Street, Alachua, FL 32615 ox.net	n ent nd ust c SHEET NO.: SHEET NO.: 1 2 4 1 2 2 2 3 3 4 2 3 3 4 3 3 4 3 3 4 3 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4

P1

![](_page_19_Figure_0.jpeg)

![](_page_20_Figure_0.jpeg)

![](_page_21_Figure_0.jpeg)

# ZONE

## BRANCH CIRCUIT PANELBOARD SCHEDULE

FOR 240/120 VOLT, SINGLE PHASE, 3-WIRE SERVICE. PROVIDE ALL SPARE BREAKERS AND GROUND BAR. 400 AMP. MAIN BREAKER, 22,000 AIR SYMMETRICAL FULLY RATED ALL BREAKERS. 100% NEUTRAL.

# PANEL L2

3

		WIRE		BRE	AKER	CIR	CONN	NECTED	CIR	BREA	AKER		WIRE			
POLE ZONE	нот	NEUT	GRD	AMP	POLES	NO	LOAD	VA	NO	POLES	AMP	GRD	NEUT	НОТ	POLE	ZONE
LIGHT POLE S1 - SOCCER 1	6		8	60	2	1	5297	5297	2	2	60	8		6	LIGHT POLE S8 -	SOCCER 2
	6					3			4					6	(WESTSIDE OF F	POLE)
LIGHT POLE S2 - SOCCER 1	6		8	60	2	5	5297	5297	6	2	60	8		6	LIGHT POLE S8 -	SOCCER 3
	6					7			8					6	(EASTSIDE OF P	OLE)
LIGHT POLE S3 - SOCCER 1	6		8	60	2	9	5297	5297	10	2	60	8		6	LIGHT POLE S9 -	SOCCER 3
	6					11			12					6		
LIGHT POLE S4 - SOCCER 1	6		8	60	2	13	5297	5297	14	2	60	8		6	LIGHT POLE S10	- SOCCER 3
	6					15			16					6		
LIGHT POLE S5 - SOCCER 2	6		8	60	2	17	4540	5297	18	2	60	8		6	LIGHT POLE S11	- SOCCER 3
	6					19			20					6		
LIGHT POLE S6- SOCCER 2	6		8	60	2	21	4540	180	22	1	20	12	12	12	AIRMESH 1- SOC	CER 1, 2, 3
	6					23			24							
LIGHT POLE S7 - SOCCER 2	6		8	60	2	25	4540		26							
	6					27			28							
						29			30							
						31			32							
						33			34							
						35			36							
						37			38							
						39			40	2	*				TVSS	
						41			42							

LIGHTS X 1.25 AIR MESH

= 85129 VA (68103 VA CONNECTED) = 180 VA

TOTAL = 85309 VA (355 AMP, PROVIDE 400A SERVICE 2 SETS 3-3/0 IN 2"C) \* - SIZE TVSS BREAKER PER MANUFACTURER SPECIFICATIONS.

VATTS PER	QTY OF LED
AMP	LAMPS/POLE
681	6
681	3
532	3

![](_page_21_Figure_18.jpeg)

# BASKETBALL COURTS & SOCCER FIELD LIGHTING ELECTRICAL DISTRIBUTION ONE LINE DIAGRAM

NOT TO SCALE

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signed and sealed by William
T. Stormant, PE, on the date
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LIGHTING PLAN PREPARED BY WILLIAM T. STORMANT, P.E.

![](_page_21_Picture_27.jpeg)

WILLIAM T. STORMANT, P.E. ELECTRICAL ENGINEER 5304 NW 173 Street, Alachua, FL 32615 stormantwt@cox.net (352) 665-1426 P.E. No.: 44156

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Research Drive a, Florida 32615 (352) 331-1976 ww.chw-inc.com B FLORIDA

11801 Alachui

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DRAWING

BAN .. ORIGINAL IF NOT ON THIS SHEE

SHEET NO. P4

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WET<sup>-</sup> SUR

	ELECTRICAL SPECIFICATIONS	
	A. GENERAL 1. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND NECESSARY ITEMS FOR THE FOLLOWING COMPLETE AND OPERATING SYSTEMS: UTILITY CONDUIT (PRIMARY AND PARKING RENTAL LIGHTING) INFRASTRUCTURE, AND COMPLETE SPORTS LIGHTING SYSTEMS.	-
	2. THE SPORTS LIGHTING SYSTEM SHALL BE PROVIDED AS DESIGNED IN THE SHEET TITLED FOREST PARK BY NGU SPORTS LIGHTING, INC. BASIS OF DESIGN IS NGU SPORTS LIGHTING INC, EPHESUS LED SPORTS LIGHTING SYSTEM.	م
	3. OBTAIN AND PAY ALL FEES AND PERMITS REQUIRED TO INSTALL THE COMPLETE SYSTEMS.	UJ
	OF WHETHER EACH INDIVIDUAL COMPONENT IS MENTIONED OR NOT.	S
	NFPA 70, NATIONAL ELECTRICAL CODE LATEST EDITION NECA STANDARD OF INSTALLATION. NFPA 72 LATEST ADOPTED REVISION FLORIDA BUILDING CODE LATEST REVISIONS. NFPA 101 LATEST ADOPTED REVISION ADA LATEST ADOPTED REVISION GAINESVILLE REGIONAL UTILITY STANDARDS AND POLICIES. UNDERWRITER'S LABORATORY STANDARDS (UL). CITY OF GAINESVILLE CODE OF ORDINANCES ILLUMINATION ENGINEERING SOCIENTY HANDBOOK 10TH EDITION OTHER APPLICABLE CODES AND STANDARDS THAT APPLY TO THIS TYPE OF CONSTRUCTION.	BM
	B. MATERIALS AND WORKMANSHIP	
	1. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE TIMELY PLACEMENT OF ALL CONDUITS, JUNCTION BOXES, CABINETS, TEMPORARY ELECTRICAL SERVICE, SPORTS LIGHTING ASSEMBLIES AND OTHER WIRING DEVICES AS THE CONSTRUCTION PROGRESSES.	
	2. OUTLET BOXES SHALL BE STEEL 4" SQUARE X 1.5" DEEP MINIMUM LOCATED AS FOLLOWS: WALL SWITCHES 48" ABOVE FINISHED FLOOR TO CENTERLINE TO MEET ADA. CONVENIENCE OUTLETS 18" ABOVE FINISHED FLOOR OR AS NOTED. EQUIPMENT OUTLETS AS REQUIRED BY THE EQUIPMENT.	L
	3. WIRING SYSTEMS SHALL BE AS FOLLOWS: UNDERGROUND MAY BE SCHEDULE 40 PVC. MC CABLE OR EMT WHERE PERMITTED BY CODE. RIGID GALVANIZED STEEL WHERE REQUIRED BY CODE. ELEXIBLE STEEL CONDUIT WHERE REQUIRED LIQUID TIGHT WHERE REQUIRED	
	4. CONDUCTORS SHALL BE COPPER TYPE THWN-2.	L1-1,
	5. CONVENIENCE RECEPTACLES SHALL BE 15 AMP. NEMA 5-15R, UNLESS NOTED OTHERWISE.	C—
	6. WALL SWITCHES SHALL BE 20 AMP. 120/277 VOLT AC.	
	7. PANELBOARDS SHALL BE BY SQUARE D.	
	8. ALL METAL BOXES, CABINETS, CONDUIT, EQUIPMENT, ETC. SHALL BE GROUNDED AS REQUIRED BY CODE. PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR ALL CIRCUITS.	
	9. ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ITEMS AND EQUIPMENT SHOWN AS PART OF THE GENERAL CONTRACT WHICH REQUIRE ELECTRICITY, INCLUDING CONTROL WIRING AND WIRING TO CONNECT EXISTING EQUIPMENT.	
	10. FUSES SHALL BE DUAL-ELEMENT CURRENT LIMITING FUSES IN ALL DISCONNECT SWITCHES OR OTHER FUSIBLE DEVICES. FURNISH A SPARE FUSE OF EACH TYPE USED ON THE JOB.	
	11. ELECTRICAL CONTRACTOR SHALL INSTALL AND CONNECT MOTOR STARTERS, RELAYS, SWITCHES, AND RELATED ITEMS WHICH ARE SPECIFIED BY OTHERS.	
	12. ALL MATERIAL SHALL BE NEW AND UL APPROVED, LISTED, OR LABELED.	
	<ol> <li>ALL ELECTRICAL EQUIPMENT AND SYSTEMS SHALL BE TESTED AND ADJUSTED FOR PROPER OPERATION. COMPLETE WIRING SYSTEM SHALL BE FREE OF SHORT CIRCUITS.</li> <li>CONTRACTOR SHALL MAKE COMPLETE CONNECTIONS TO ALL EQUIPMENT. COORDINATE WITH FOURPMENT SUPPLIER FOR EXACT LOCATIONS AND REQUIREMENTS.</li> </ol>	
	15. CONTRACTOR SHALL PROVIDE TRANSIENT VOLTAGE SURGE SUPPRESSORS AT PANELS L1 & L2 CAPABLE OF PROVIDING 40 KA PROTECTION PER PHASE. SERVICE ENTRANCE RATED AND UL 1449 LISTED. ELECTRICAL NOTES	
1.	FOR THE UTILITY SYSTEM, INSTALL LONG RADIUS SWEEPS AT UTILITY POLE, PADS AND ALL CHANGES OF DIRECTION. INSTALL PRIMARY CONDUITS WITH 48" COVER STREET LIGHT CONDUITS WITH 36" OF COVER. VERIFY REQUIREMENTS WITH GRU. PROVIDE SINGLE PHASE TRANSFORMER PADS (B-3), UD JUNCTION BOXES (B-21), UD SERVICE ENCLOSURES (B-2 10" BURIED WIRE ENCLOSURES (B-26) PADS AS PER GRU REQUIREMENTS. PAGES NOTED IN PARENTHESIS ARE FOUND GRU ED SERVICE GUIDE APPENDICES.	24), IN
2.	COORDINATE LOCATIONS OF ELECTRICAL EQUIPMENT, DEVICES, OUTLETS, FIXTURES, ETC. WITH ARCHITECTURAL AND CIVIL PLANS PRIOR TO INSTALLATION. DO NOT SCALE ELECTRICAL DRAWINGS.	
3.	NOT USED.	
4. 5.	PROVIDE INSULATED GROUNDING CONDUCTOR FROM EACH EQUIPMENT CONNECTION AND OUTLET TO GROUNDING BAR IN PANELBOARDS. PROVIDE AN INSULATED GROUNDING CONDUCTOR IN ALL FEEDER AND BRANCH CIRCUITS.	
6.	CONTRACTOR SHALL PROVIDE ADDITIONAL JUNCTION BOXES, CONDUCTORS AND OTHER MATERIALS AND LABOR	
7.	CAPACITY OF CIRCUIT BREAKERS, PANELBOARDS AND OTHER CONNECTION POINTS. RISER DIAGRAMS SHOW ONLY THE GENERAL CONFIGURATION OF THE SYSTEM. REFER TO THE APPROPRIATE DRAWINGS FOR EXACT DEVICE, QUANTITIES AND LOCATIONS.	
8.	ELECTRICAL CONTRACTOR SHALL PROVIDE ADEQUATE AND PROPER SUPPORT FOR ALL ELECTRICAL DEVICES,	
9.	ALL ELECTRICAL EQUIPMENT, DEVICES, ETC. LOCATED IN DAMP AREAS OR OUTDOORS SHALL BE WEATHERPROOF.	
10.	GROUND RODS SHALL BE INSTALLED AT ALL LIGHTING POLES IN ACCORDANCE WITH THE NEC.	
11.	ALL SPORTS LIGHTING FIXTURES SHALL BE FUSED.	
12.	PULL BOXES SHALL BE PROVIDED AS NECESSARY OF SECONDARY CONDUIT RUNS.	
13. 14.	ANY SUBSTITUTIONS MUST BE APPROVED PRIOR TO SUBMITTING BID. ELECTRICAL CONTRACTOR SHALL PROVIDE ADEQUATE AND PROPER SUPPORT FOR ALL ELECTRICAL OUTLETS, DEVICES, LIGHT FIXTURES, ETC.	
15.	ALL ELECTRICAL EQUIPMENT, DEVICES, ETC. LOCATED OUTDOORS SHALL BE WEATHERPROOF.	
16.	EXISTING UTILITIES AND OTHER UNDERGROUND OR CONCEALED ITEMS ARE SHOWN FOR REFERENCE ONLY. ADDITIONAL ITEMS NOT SHOWN MAY BE PRESENT AND LOCATIONS MAY DIFFER FROM THAT SHOWN. CONTRACTOR SHALL EXCAVATE AND CONDUCT DEMOLITION SO AS TO AVOID DAMAGE TO EXISTING ITEMS, SHALL NOTIFY OWNER AND ENGINEER AT ONCE OF ALL DAMAGE AND SHALL REPAIR DAMAGE TO ORIGINAL CONDITION TO THE SATISFACTION OF OWNER AND ENGINEER AT NO CHANGE IN CONTRACT AMOUNT.	

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GRD GROUND

# ELECTRICAL LEGEND

S13	SPORTS LIGHTING POLE AND FIXTURES. "S13" INDICATES POLE IDENTIFIER. FOR HEIGHT OF POLE AND NUMBER FIXTURES REFER TO POLE SCHEDULE			LIGH	HTING FIXTURE SCH
A	PARKING LUMINAIRE AND POLE. "A" INDICATES TYPE LUMINAIRE AND POLE.				
•		TYPE	VOLTAGE		DESCRIF
в	UNDERGOUND DISTRIBUTION JUNCTION BOX FOR GRU PRIMARY CABLE.	А	120V	COBRAHEAD	, FULL CUTOFF, 140-155W HPS, 1
SE •	SERVICE ENCLOSURE - JUNCTION BOX FOR GRU SECONDARY CABLE			GRU RENTA	L LIGHT AND POLE. SEE SHEET P1
VE <sup>≢</sup>	BURIED WIRE ENCLOSURE – 10" ROUND JUNCTION BOX FOR GRU SECONDARY CABLE				
WP 🖨	DUPLEX RECEPTACLE OUTLET WITH GROUND – NEMA 5–20R WEATHERPROOF 18"A.F.F.	•	240V	SPORTS LIG LIGHTING S	HTING — BASIS OF DESIGN NGU E PECIFICATION DOCUMENT FOR DETA
GFI 🖨	DUPLEX RECEPTACLE OUTLET WITH GROUND FAULT INTERRUPTING 18"A.F.F. – NEMA 5–20R				
E	EQUIPMENT CONNECTION OUTLET - VERIFY LOCATION				
J	JUNCTION BOX				
\$	SINGLE POLE SWITCH 48"A.F.F. OR AS INDICATED				
Т	TRANSFORMER				
м	METER				ELECTRICAL A
1	BRANCH CIRCUIT PANELBOARD, "L1" IS PANEL IDENTIFIER				
	SAFETY SWITCH – RATING AND FUSING AS INDICATED			A	AMPS
	UTILITY TRANSFORMER			BKR	BREAKER
\				С	CONDUIT
"F	INDICATES THE BRANCH CIRCUIT NUMBERS.			СКТ	CIRCUIT
0				GRU	GAINESVILLE REGIONAL UTIITIES
	CONDUIT STUB-UP			CU	COPPER
				EX	EXISTING TO REMAIN
				F	FUSE
				GFI	GROUND FAULT INTERRUPTER

### GENERAL SPECIFICATIONS FOR SPORTS LIGHTING SYSTEM

2

- 1. FURNISH AND INSTALL SPORTS LIGHTING SYSTEMS MEETING IESNA RECOMMENDATIONS FOR RECREATION LEVEL PLAY FOR THE FOLLOWING LOCATIONS: THREE FULL SIZE SOCCER FIELDS, A 3/4 SIZE SOCCER FIELD, TWO BALL COURTS AND TWO VOLLEYBALL COURTS AS SHOWN ON THE PLANS.
- 2. THE BASIS OF DESIGN OF EPHESUS LIGHTING SYSTEMS. IF A DIFFERENT SYSTEM IS PROPOSED, THE REVISED PHOTOMETRIC PLAN AND EQUIPMENT CUT SHEETS MUST BE SUBMITTED TO THE ENGINEER/OWNER FOR APPROVAL.
- 3. THE LIGHTING SYSTEM IS CONTROLLED BY WAY OF A CELLULAR CONTROLLED WIRELESS MESH SYSTEM THAT IS ACCESSED VIA CELLPHONE AND COMPUTER TERMINAL. THE BASIS OF DESIGN IS LUMASPORT 8 AIRMESH SYSTEM (2 REQUIRED). THIS SYSTEM DOES NOT REQUIRE CONTACTORS.
- 4. THE LIGHTS MUST BE 5700 DEGREES KELVIN, LED AND SHIELDED OR SHROUDED. BASIS OF DESIGN IS EPHESUS LUMASPORT 8, 240V RATED. REFER TO NGU PLAN FOR TYPE AND QUANTIES.
- 5. ONE BRANCH CIRCUIT WILL FEED EACH POLE. EACH LIGHT TO BE FUSED INDIVIDUALLY AT POLE LOCATED POWER DISTRIBUTION BOX.
- 6. POLES ARE TO BE SIZED TO MEET FLORIDA BUILDING CODE WIND LOADING REQUIREMENTS. POLES WITHIN 20' OF THE TRANSMISSION LINE SHALL BE DESIGNED TO MEET RISK CATEGORY 4. THE BASIS OF DESIGN IS CONCRETE POLES WITH MOUNTING HEIGHTS AS SHOWN IN THE POLE SCHEDULE.
- 7. ALL ELECTRICAL EQUIPMENT, DEVICES, ETC. LOCATED OUTDOORS SHALL BE WEATHERPROOF.
- 8. SPORTS LIGHITNG SYSTEM SHALL MEET APPLICABLE ILLUMINATING ENGINEERING SOCIETY RECOMMENDATIONS FOR THE BASKET BALL AND SOCCER FIELDS FOUND IN THE IESNA LIGHTING HANDBOOK 10TH EDITION. THE ILLUMINATION LEVELS AT THE SOUTHERN PROPERTY LINE SHALL NOT EXCEED 1 FOOT-CANDLE AS REQUIRED
- 9. THE WIRING FROM THE POLE DISTRIBUTION BOX TO THE LIGHTS SHALL BE PRE TERMINATED BY THE MANUFACTURER.
   10. THE LIGHTING DESIGN PROPOSAL FROM THE LIGHTING MANUFACTURER SHALL INCLUDE QUOTATION, BILL OF MATERIALS, PHOTOMETRIC DRAWING DESIGN PLAN, PRODUCT SPECIFICATION SHEETS, INSTALLATION MANUALS, AND INSTALLATION DRAWINGS.

## SCHEDULE

#### CRIPTION

PS, TYPE 3 DISTRIBUTION STREET LIGHT ON 35' 10' ARM T P1.

GU EPHESUS LIGHTING SYSTEM – REFER TO SPORTS DETAILS.

## ABBREVIATIONS

	HOA	HAND-OFF-AUTOMATIC
IETRICAL	к	KILO
	LTG	LIGHTING
	MTD	MOUNTED
	NEC	NATIONAL ELECTRICAL CODE
	NO	NORMALLY OPEN CONTACTS
	NC	NORMALLY CLOSED CONTACTS
	OHE	OVERHEAD ELECTRIC
	OHP	OVERHEAD PRIMARY
	Р	POLE
	PWR	POWER
	RGS	RIGID GALVANIZED STEEL
	SF	SUPPLY FAN
	UGE	UNDERGROUND ELECTRIC
	UGP	UNDERGROUND PRIMARY
	UGS	UNDERGROUND SECONDARY
	UL	UNDERWRITERS LABORATORIES
	V	VOLTS
	VA	VOLT-AMPERES
	VAR	VOLT-AMPERES REACTIVE
	W	WATTS OR WIRE
	WP	WEATHERPROOF
	ø	PHASE

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LIGHTING PLAN PREPARED BY WILLIAM T. STORMANT, P.E.

SEAL

WILLIAM T. STORMANT, P.E. ELECTRICAL ENGINEER 5304 NW 173 Street, Alachua, FL 32615 stormantwt@cox.net (352) 665-1426 P.E. No.: 44156

4

11801 Research Drive Alachua, Florida 32615 (352) 331-1976 www.chw-inc.com est. 1988 **FLORIDA** CA-5075 X VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST NN OLE, PLAN PARK IGHTIN( & W/ ST WETT, SURVE Ξı SSEAUX, NEERING SHEET NO

Ρ5

![](_page_23_Picture_1.jpeg)

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4

11801 Research Drive Alachua, Florida 32615 (352) 331-1976 www.chw-inc.com est. 1988 FLORIDA CA-5075 X VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON IF NOT ONE INCH ON THIS SHEET, ADJUST S₹ SHEET NO .:

Ρ6

![](_page_24_Figure_0.jpeg)

Label	Lum. Lumens	LLF	Description	Lum. Watts	Total Watts
LV-44	41936	0.950	EPH-LV-07-950-U-44	532.7	2130.8
4S-CV1	70459	0.950	EPH-LS-08-0640L-57-70-4S-CV1	697	47396
5S-CV1	66485	0.950	EPH-LS-08-0640L-57-70-5S-CV1	697	11152
LV-55	40355	0.950	EPH-LV-07-950-U-55	532.7	7457.8
5S	90904	0.950	EPH-LS-08-0640L-57-70-5S	681	8172

CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	CV	UG
Illuminance	Fc	22.29	30	14	1.59	2.14	0.16	1.38
Illuminance	Fc	20.95	31	14	1.50	2.21	0.19	2.00
Illuminance	Fc	20.88	30	14	1.49	2.14	0.19	1.93
Illuminance	Fc	20.26	28	13	1.56	2.15	0.20	1.79
Illuminance	Fc	0.19	0.8	0.0	N.A.	N.A.	N.A.	N.A.
Illuminance	Fc	0.29	0.5	0.0	N.A.	N.A.	N.A.	N.A.
Illuminance	Fc	25.71	39	16	1.61	2.44	0.19	2.00
Illuminance	Fc	20.00	30	12	1.67	2.50	0.27	1.60
Illuminance	Fc	19.75	29	9	2.19	3.22	0.29	1.60
Illuminance	Fc	0.57	3.2	0.1	5.70	32.00	N.A.	N.A.

_							
	Scene/Channel Summary						
	Scene: VOLLEYBALL						
	Channel		# Lums				
	BASKETBALL		12				
	FIELD 1		28				
	FIELD 2		28				
	FIELD 3		28				
	SMALL SOC		12				
	VOLLEYBALL		6				

#### THIS IS NOT A CONSTRUCTION DOCUMENT

NOTICE: THIS DRAWING IS THE EXCLUSIVE PROPERTY OF NGU SPORTS LIGHTING LLC. ITS ACCEPTANCE CONSTITUTES AGREEMENT THAT THE DRAWING WILL BE TREATED AS CONFIDENTIAL. IT IS TO BE RETURNED UPON REQUEST AND IS NOT TO BE COMMUNICATED, DISCLOSED, OR COPIED EXCEPT AS EXPRESSLY AUTHORIZED BY NGU. THE INTENT OF THIS LIGHTING LAYOUT IS TO SUGGEST THE BEST UTILIZATION AND THE PERFORMANCE OF EPHESUS LUMINAIRES REPRESENTED HERE. IT WAS BASED UPON INFORMATION PROVIDED TO NGU SPORTS LIGHTING, LLC AND ANY VARIATION FROM DESIGN TO INSTALLATION MAY AFFECT THE EXPECTED RESULTS.

![](_page_24_Picture_7.jpeg)

2401 PGA Blvd, Suite 110 Palm Beach Gardens, FL 33410 www.NGUsportslighting.com Phone: 1-855-NGU-LEDS

Passion and Commitment exclusively for Ephesus LED Sports Lighting

FOREST PARK GAINESVILLE, FL ALL FIELDS AND PROPERTY LINES NEW SITE PLAN, CHANGE TO VB + POLE S11

DESIGNED BY	DATE	SCALE	DRAWING NUMBER
H. JOHNSON, LC	10/4/2022	1" = 80'	LD21304F

# FOREST PARK GAINESVILLE, FLORIDA

# HARDSCAPE, LANDSCAPE, & IRRIGATION 100% CONSTRUCTION DOCUMENTS

October 6, 2022

Prepared by:

![](_page_25_Picture_5.jpeg)

11801 Research Drive Alachua, FL 32615 352.331.1976 tel License No. LA0001683

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L-409	IRRIGATION PLAN					

![](_page_26_Picture_0.jpeg)

![](_page_27_Figure_0.jpeg)

![](_page_28_Figure_0.jpeg)

![](_page_29_Figure_0.jpeg)

![](_page_30_Figure_0.jpeg)

![](_page_31_Figure_0.jpeg)

![](_page_32_Picture_0.jpeg)

![](_page_33_Figure_0.jpeg)

N	SH SCHEDU	E			
́М		SPECIFICATIONS	SYM		SPECIFICATIONS
A)	TABLE	TYPE:       8' PICNIC TABLE (SURFACE MOUNTED)         FINISH:       THERMOPLASTIC         COLOR:       50% BLUE, 50% GREEN (SEE PLANS FOR LOCATIONS)         SOURCE:       ULTRA PLAY #238–V8 (STANDARD TABLE), 238H–V8 (ADA TABLE) OR APPROVED EQUAL	Q	VOLLEYBALL SAND	TYPE: "PLAY SAND" FINISH: DOUBLE WASHED, .5–1MM PARTICLE SIZE, SCREENED & CLEAN COLOR: WHITE SOURCE: ROBERTS SAND COMPANY, 850–576–1414, ROBERTSSANDCO.COM, OR APPROVED EQUAL
B	BENCH	TYPE: 6' BENCH WITH PARK NAME ENMESHED IN METAL BACK (SURFACE MOUNTED) FINISH: THERMOPLASTIC COLOR: 50% GREEN, 50% BLUE (SEE PLANS FOR LOCATIONS) SOURCE: ULTRA PLAY #940–P6–BB OR APPROVED EQUAL	R	VOLLEYBALL POSTS	TYPE: POP-BAZOOKA E-Z ADJUST PROFESSIONAL OUTDOOR POSTS FINISH: ANODIZED ALUMINUM COLOR: N/A SOURCE: VOLLEYBALL USA; VOLLEYBALLUSA/POP-BAZOOKA-E-Z-ADJUST-PROFESSIONAL-OUTDOOR-POLES/ OR APPROVED EQUAL
C	PLAYER BENCH	TYPE: 8' ALUMINUM BENCH (BACKLESS) (SURFACE MOUNTED) FINISH: ALUMINUM COLOR: N/A SOURCE: BELSON #ABS8NB—S OR APPROVED EQUAL	S	VOLLEYBALL EDGING	TYPE: FLEXEDGE BEACH VOLLEYBALL RUBBER BORDER FINISH: UV TOP COAT COLOR: BLACK SOURCE: SPORTSEDGE, 704–682–9843, SPORTSEDGE.COM, OR APPROVED EQUAL
D	BLEACHERS	TYPE: 7.5' ALUMINUM BLEACHERS (3 ROWS) (SURFACE MOUNTED) FINISH: ALUMINUM COLOR: N/A SOURCE: KAY PARK–REC CORP #BLA3A7.5 OR APPROVED EQUAL	T	VOLLEYBALL MARKERS	TYPE: 2" PRO COURT ADJUSTABLE BOUNDARY LINES FINISH: N/A COLOR: BLUE SOURCE: VOLLEYBALL USA; VOLLEYBALLUSA.COM/2-INCH-PRO-ADJUSTABLE-BOUNDARY-LINES/ OR APPROVED EQUAL
E	GRILL	TYPE: ADA COMPLIANT SURFACE MOUNT GRILL FINISH: HIGH TEMP., HEAT RESISTANT, NONTOXIC BLACK ENAMEL COLOR: BLACK SOURCE: RJ THOMAS MFG. CO., INC. #ASW–20 B18 S6 OR APPROVED EQUAL	U	BASKETBALL GOAL	TYPE: 656 GOOSENECK OUTDOOR BASKETBALL DIRECT MOUNT 6' EXT. FINISH: 850RB-BB & UBG-500F COLOR: N/A SOURCE: JAYPRO SPORTS, 800-649-3688, OR APPROVED EQUAL
F	TRASH RECEPTACLE	TYPE:COMBINATION TRASH RECEPTACLE AND RECYCLING BIN (SURFACE MOUNTED)FINISH:BLACK HDPE FRAME WITH GREEN HDPE PANELINGCOLOR:BLACK AND GREENSOURCE:ARETE INDUSTRIES #CUST-WE3C-47-D OR APPROVED EQUAL	V	COURT SURFACING	TYPE: PLEXIPAVE (STANDARD) FINISH: N/A COLOR: PROVIDE SAMPLES TO OWNER FOR SELECTION SOURCE: CALIFORNIA SPORTS SURFACES, 978–623–9980, OR APPROVED EQUAL
G	DOGIPOT	TYPE: DOGIPOT BAG DISPENSER, SIGN, AND POLE FINISH: ALUMINUM COLOR: FOREST GREEN SOURCE: DOGIPOT #1011-MINI OR APPROVED EQUAL	W	6' FENCE	TYPE: 6' HT. CHAIN LINK MESH FINISH: VINYL COATED COLOR: BLACK SOURCE: MASTER HALCO; MASTERHALCO.COM OR APPROVED EQUAL
H	WATER FOUNTAIN	TYPE: DRINKING FOUNTAIN & HOSE BIBB W/ LOCKING COVER WITH PET OPTION AS NOTED (SURFACE MOUNTED) FINISH: POWDER COATED COLOR: GREEN SOURCE: MDF, INC. #440 SMSS DRINKING FOUNTAIN OR APPROVED EQUAL	X	GATE (6' HT.)	TYPE: 6' HT. CHAIN LINK MESH (6' WIDE) FINISH: VINYL COATED COLOR: BLACK SOURCE: MASTER HALCO; MASTERHALCO.COM OR APPROVED EQUAL
	DOG WASHING STATION	TYPE: DOG WASHING STATION (SURFACE MOUNTED) FINISH: STAINLESS STEEL COLOR: N/A SOURCE: PET AND PLAYGROUND PRODUCTS, 866–398–3992, OR APPROVED EQUAL	Y	BOLLARD	TYPE: 4" BOLLARD FINISH: POWDER COATED STEEL COLOR: YELLOW SOURCE: BOLLARD SOLUTIONS, 864–626–3311 OR APPROVED EQUAL
J	SHADE STRUCTURE	TYPE: T-STYLE CANTILEVER SHADE (19' X 30') FINISH: POWDER COATED STEEL COLOR: WHITE (STEEL FRAME), DESERT SAND (CANVAS SHADE) SOURCE: CREATIVE SHADE SOLUTIONS. T-STYLE CANTILEVER OR APPROVED EQUAL	Z	REMOVABLE BOLLARD	TYPE:4" REMOVABLE BOLLARDFINISH:POWDER COATED STEELCOLOR:YELLOWSOURCE:BOLLARD SOLUTIONS, 864–626–3311 OR APPROVED EQUAL
K	PAVILION	TYPE: 20' X 36' TUBE STEEL PAVILION WITH A GABLE ROOF FINISH: POWDERCOATED STEEL COLOR: WHITE BEAMS, BLUE ROOF SOURCE: RCP SHELTERS, INC #TS-G2036-04 OR APPROVED EQUAL	(AA)	STORAGE BIN	TYPE: 4' x 2' LOCKABLE HORIZONTAL STORAGE SHED FINISH: N/A COLOR: GRAY SOURCE: CRAFTSMAN MODEL #CMXRSSC2550 OR APPROVED EQUAL
L	4' FENCE	TYPE: 4' HT. CHAIN LINK MESH FINISH: VINYL COATED COLOR: BLACK SOURCE: MASTER HALCO; MASTERHALCO.COM OR APPROVED EQUAL	BB	PICKELBALL NETS	TYPE: PORTABLE PICKLEBALL NET SYSTEM (OVAL DESIGN) FINISH: N/A COLOR: BLACK NET SOURCE: PICKELBALL CENTRAL #OOPKLNOVL OR APPROVED EQUAL
M	GATE (4' HT.)	TYPE: 4' HT. CHAIN LINK MESH (4' WIDE) FINISH: VINYL COATED COLOR: BLACK SOURCE: MASTER HALCO; MASTERHALCO.COM, OR APPROVED EQUAL	CC	PADDLE RACK	TYPE: PVC PADDLE RACK (20 PADDLES – WITH J HOOKS) FINISH: N/A COLOR: WHITE SOURCE: NEXTUP PICKLEBALL PRODUCTS #2046R-PVC OR APPROVED EQUAL
N	DOUBLE GATE (4' HT.)	TYPE: 4' HT., DOUBLE GATE (10' WIDE) CHAIN LINK MESH FINISH: VINYL COATED COLOR: BLACK SOURCE: MASTER HALCO; MASTERHALCO.COM, OR APPROVED EQUAL	DD	SAND RAKE	TYPE: VOLLEYBALL SAND RAKE – 48" FINISH: N/A COLOR: N/A SOURCE: VOLLEYBALL USA; VOLLEYBALLUSA.COM/ACCESSORIES/SAND-RAKES/ OR APPROVED EQUAL
0	10' NET FENCE	TYPE: 10' HT. BARRIER NET, 1.75" SQUARE KNOTTED NETTING WITH STEEL POLES FINISH: POWDER COATED GALVANIZED STEEL COLOR: BLACK SOURCE: CUSTOM NETTING, 404–869–8623 OR APPROVED EQUAL	ĒĒ	VOLLEYBALL NETS	TYPE: ML4: 4" PRO BEACH NET (KEVLAR CORD NETS) FINISH: N/A COLOR: BLACK SOURCE: VOLLEYBALL USA; VOLLEYBALLUSA.COM/ML4-4-PRO-BEACH-NET/ OR APPROVED EQUAL
P	CONCRETE	TYPE: CONCRETE FINISH: REFER TO CIVIL PLANS FOR MORE INFORMATION COLOR: N/A SOURCE: N/A	FF	ANTENNA SET	TYPE: VELCRO 2 PIECE VOLLEYBALL ANTENNA SET FINISH: N/A COLOR: BLACK SOURCE: VOLLEYBALL USA: VOLLEYBALLUSA.COM/COLORED-UITRA-VELCRO-2-PIECE-VOLLEYBALL -ANTENNA-SET/ OR APPROVED FOU

KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG It's fast, It's free, it's the law.
Call <u>811</u> two business days before digging

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![](_page_35_Figure_0.jpeg)

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![](_page_36_Figure_0.jpeg)

# 7 TYPICAL TRASH RECEPTACLE LAYOUT DETAIL SCALE: N.T.S.

![](_page_36_Figure_3.jpeg)

# - 24'' —— 16" 13"

![](_page_36_Figure_6.jpeg)

CONCRETE ANCHOR ATTACHMENT

Base

(B)<sup>BENCH</sup>

![](_page_36_Figure_7.jpeg)

4

![](_page_36_Figure_8.jpeg)

![](_page_36_Figure_9.jpeg)

![](_page_36_Figure_10.jpeg)

3'-0" CLEAR 

![](_page_37_Figure_0.jpeg)

![](_page_38_Picture_0.jpeg)

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KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG It's fast, It's free, it's the law. Call <u>811</u> two business days before digging 2

	11801 Research Drive Alachua, Florida 32615 (3522) 331-1976 www.chw-inc.com est. 1988 <b>FLORIDA</b> LA0001683
	Professional Consultants
	SCALE: N/A VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
	Truction/BID revisions:
(1) #5 REBAR CONT.	CONS DR REVIEW NTS
3,000 PSI PEAGRAVEL GROUT; FILL EACH CELL	SUBMITTALS: 3/21/2022 - 100% CD'S FC 8/15/2022 - BID DOCUME 10/6/2022 - BID SET
CONCRETE: 3,000 PSI AT 28 DAYS (4) #5 REBAR CONT. SPACED EVENLY (4) #5 REBAR CONT. SPACED EVENLY (4) #5 REBAR CONT. SPACED EVENLY (5) FINISH GRADE (4) #5 REBAR © 24" O.C. TRANSVERSE, TYP. (5) FINISH GRADE (4) #5 REBAR © 24" O.C. TRANSVERSE, TYP. (5) FINISH GRADE (6) FINISH GRADE (7) FINISH GRADE (7) FINISH GRADE (7) FINISH GRADE (7) FINISH GRADE (8) FINISH GRADE (9) FINISH GRADE (9) FINISH GRADE (1) FINISH	CLIENT: CITY OF GAINESVILLE PROJECT: FOREST PARK WSPP SHEET TITLE: HARDSCAPE DETAILS
NOTE: COORDINATE WITH THE CITY PARKS DEPARTMENT FOR WALL COLOR OPTIONS	TECHNICIAN: JMS DESIGNER: JMS QUALITY CONTROL CT PROJECT NUMBER: 21-02
	SHEET NO.: L-212

	SECTION 02870 — SITE FURNISHINGS SPECIFICATIONS <u>PART 1 — GENERAL</u>	SE <u>P</u> A	ECTION 32 . <u>rt 1 – ge</u>
	1.1 SCOPE OF WORK	1.1	1 SCOPE
	A. Summary		A. Sum
	1. Provide all labor, materials, necessary equipment, and services to com Furnishings work, as indicated on the drawings, as specified herein, o	plete the Site or both.	1. (
	B. Related Sections		B. RELA
A	1. 02520: Portland Cement Concrete Paving		1. (
	1.2 QUALITY ASSURANCE		2. (
	A. Carefully read the manufacturer's recommendations for installation of the furnishings, and immediately notify the Owner's Representative of any between such recommendations and drawings and specifications.	specified discrepancy	3. ( 4. (
	1.3 SUBMITTALS		5. (
	A. Submit to the Owner's Representative, before delivery of materials of this	section, copies of	6. (
	the manufacturer's literature for all products proposed to be furnished on this portion of work, stating manufacturer's name, product name and moo applicable colors, finishes, materials and other information required to veri correct product has been ordered.	and installed under del number, and 1.2 ify that the	Z QUALITY
	B. Accompany manufacturer's literature with a detail or description of the manufacture is a second method of installation for each item.	anufacturer's	spec discr
	recommendations, after review by the Owner's Representative, shall form t	he basis for 1.3	3 REFEREN
	C. Complete scaled shop drawings drawn to scale for all items of work unde	er this section	A. ASTN
	indicating all details of fabrication and installation, including sizes, shapes, thickness, material quality, and all other related work applicable to the ite	, finishes, colors, ems of this	B. ASTN
	section.		C. ASTN
	D. Provide a sample of the material of the furnishing and of the color and Note color, finish, and manufacturer on sample.	finish specified.	D. ASTN
в	E. If 'approved equal' substitutions are being requested, submit comparison t differences between requested substitution and product specified in plans.	hat details the Submittal shall	LINK F ASTN
	include details on dimension, color, and design differences. Submit co shop drawing of requested substitution including all details of fab	mplete, scaled prication and	L. ASIN Wire
	installation, including sizes, shapes, finishes, colors, thickness, material qua related work applicable to the items of this section.	ality, and all other	F. ASTN Rode
			G. ASTN
	2 1 MATERIALS		H. ASTN
	A. Provide the products as specified within the finish schedule.		I. ASTN
			J. ASTN
	PART 3 – EXECUTION		K. ASTN
	3.1 EXISTING CONDITIONS	t installed work of	L. ASTN
	other trades and verify that all such work is complete to point where ins properly begin. Examine areas and conditions, with Installer present, with requirements for correct and level finished grade, mounting surfaces, tolerances, and other conditions affecting performance.	tallation may for compliance installation	(Galv M. WLG: Load
	B. Proceed with installation only after unsatisfactory conditions have been cor	rrected.	4 SUBMITT
	3.2 INSTALLATION		A. Shop finis
5×p	A. Review the proposed location(s) of all improvements with Owner's Represer prior to installation. Failure to do so may result in the relocation of imp the repair of any damage caused by the incorrect installation.	ntative in the field provements and	B. Prod spec
O L-210_Details.	B. The Contractor shall coordinate with Owner's Representative the delivery of and shall be completely responsible for shipping, unpacking, removing pacl disregarding pallets and packaging materials, and all handling of site furni	f site furnishings kaging, ishings after	C. Sam acce
Sheets	delivery to place in locations as designated on the arawings.	PA	<u>RT 2 - PF</u>
)s\Current\05_	shown on the drawings. Improperly installed items will be rejected, and t be required to replace and/or reinstall the item to the Owner's satisfactio damage caused by the incorrect installation at no additional cost to the O	he Contractor will 2. on and repair any Owner.	1 CHAIN L A. Galve (befe
Gs\02_CI	D. All site furnishings shall be guaranteed by the Contractor free of defects, stains, and shall be completely clean and free of damage upon final plac	cracks, chips, ement and	Ìenc mini
\02_DW	approval.	2.2	2 STEEL F
nts\03_Design	A. Remove all packaging and excess materials from the site upon completion Clean and protect installed site improvements as necessary until the Owne them	n of installation. er has accepted	A. Stee sche g/m
Departme	3.4 ACCEPTANCE		B. Pipe
2021\21-0219\	A. A substantial completion inspection shall be conducted with all deficiencies to the Contractor as a punch list of items to be corrected. Substan acceptance will not be issued until all punch list items have been comple- reinspection by the Owner's Representative is finished.	s noted and given tial completion ted and a	place C. Pipe at 1
Filename: N:/:	B. Once the reinspection for compliance with the punch list requirements has and barring any new deficiencies being noted during the reinspection, writt be given for all work of this Section, exclusive of possible replacement of	s been conducted ten acceptance will items subject to	(unie cour point
<b>57pm</b> C	warranty.		D. Pipe the
2022 3:	C. If any deficiencies of requirements exist, they will be noted in writing.	2.3	3 FITTINGS
Date: Oct 06,	D. Upon written substantial completion acceptance being given, the Owner will responsibilities for maintenance of the site furnishings unless otherwise no Contractor is responsible for all maintenance as specified in this section point.	i assume all ted. The on up to this	A. Post alum for Wher
ls Plot	3.5 GUARANTEE AND REPLACEMENT		B. Rail
: john-michae	A. The Contractors shall warrant in writing the site furnishings to be free of period of one (1) year from the date of substantial completion.	defects for a	of re
Tech:	END OF SECTION		

#### 23113 – CHAIN LINK FENCE AND GATE SPECIFICATIONS

#### <u>ENERAL</u>

OF WORK nmary

- Galvanized (zinc) coated chain link fabric with galvanized steel framework and accessories for commercial or industrial applications.
- ATED SECTIONS
- 01 33 13 Certifications
- 01 33 23 Shop drawings, product data
- 01 43 13 Manufacturers Qualifications
- 01 43 13 Installer qualifications
- 01 45 00 Quality control
- 01 65 00 Product delivery requirements
- 03 30 00 Cast-In-Place Concrete

#### ASSURANCE

- efully read the manufacturer's recommendations for installation of the cified fence and immediately notify the Owner's Representative of any repancy between such recommendations and drawings and specifications. NCES
- M A36 Standard Specification for Carbon Structural Steel
- M A392 Standard Specification for Zinc-Coated Steel Chain-Link Fabric
- M A780 Standard Practice for Repair of Damaged and Uncoated Areas of -dip Galvanized Coatings
- M A817 Standard Specification for Metallic-Coated Steel Wire for Chain Fence Fabric and Marcelled Tension Wire
- M A824 Standard Specification for Metallic-Coated Steel Marcelled Tension for Use With Chain Link
- M B221 Standard Specification for Aluminum and Aluminum Alloy Bars, ls, Wire Profiles and Tubes
- M F552 Standard Terminology Relating to Chain Link Fencing
- M F567 Standard Practice for Installation of Chain Link Fence
- M F626 Standard Specification for Fence Fittings
- M F900 Standard Specification for Industrial and Commercial Swing Gates
- M F1043 Standard Specification for Strength and Protective Coatings on el Industrial Chain Link Fence Framework
- M F1083 Standard Specification for Pipe, Steel, Hot-Dipped Zinc-Coated lvanized) Welded, for Fence Structures
- 2445 Chain Link Fence Manufacturers Institute, Chain Link Fence Wind Guide for the Selection of Line Posts and Line Post Spacing TALS
- op drawings: Layout of fences and gates with dimensions, details, and shes of components, accessories, and post foundations.
- duct data: Manufacturer's catalog cuts indicating material compliance and cified options.
- nples: If requested, samples of materials (e.g., fabric, wires, and essories).

#### <u>RODUCTS</u>

- INK FENCE FABRIC
- vanized (zinc) coated steel chain link fabric per ASTM A392. 9 gauge fore vinyl coating) chain link fabric vinyl coated, black color, 6 gauge ce wire after vinyl coating, hot dip zinc coating, 1.2 oz per sq. ft imum, the wire shall be installed with the knuckle end up.
- FENCE FRAMEWORK
- el pipe Type I: ASTM F1043 Group IA, ASTM F1083 standard weight edule 40 hot—dip galvanized pipe having a zinc coating of 1.8 oz/ft<sup>2</sup> (550  $m^2$ ) on the outside surface and 1.8 oz/ft<sup>2</sup> (550 g/m<sup>2</sup>) on the inside face. Regular Grade: Minimum steel yield strength of 30,000 psi (205 MPa)
- End and Corner Post: 3" schedule 40 hot-dip galvanized. Posts shall be ced a minimum of 30" in the ground
- Line Post: 2-1/2" schedule 40 hot-dip galvanized. Posts shall be placed 10' intervals, posts shall be placed a minimum of 2 feet in the ground less surface mounted to the existing concrete pad between the basketball rrts). Posts shall be set in 80 lbs. minimum of 3,000 psi concrete per
- Rail and Braces: There shall be brace bands/tensions bands supporting wire every 18 inches.
- caps: ASTM F626 hot-dipped galvanized pressed steel, malleable iron, or ninum alloy weather tight closure cap for tubular posts. Provide one cap each post. "C" shaped line post without top rail do not require post caps. en top rail is specified provide line post loop tops to secure top rail.
- ends: Hot-dipped Galvanized pressed steel per ASTM F626, for connection rails to post using a brace band.

- C. Top rail sleeves: 7" (178 mm) hot-dipped galvanized steel sleeve p F626. [If expansion and contraction of the rail is of concern add (3.48 mm) wire diameter by 1.80" (45.72 mm) long expansion sprin the adjourning rails]
- D. Wire ties: 9 gauge (0.148") (3.76 mm) galvanized steel wire and a black vinyl for attachment of fabric to line posts and rails. Pre-fo ring ties to be 9 gauge (0.148") (3.76 mm) galvanized steel or all attachment of fabric to tension wire. Tie wire and hog rings per A
- E. Brace and tension (stretcher bar) bands: ASTM F626 galvanized 12 (0.105") (2.67mm) pressed steel by 3/4" (19mm) formed to a min degree profile curvature for post attachment. Secure bands using 5/16" (7.94 mm) galvanized carriage bolt and nut.
- F. Tension (stretcher) bars: Galvanized steel one piece length equal to (50 mm) less than full height of fabric with a minimum cross-sec 3/16" x 3/4" (4.76 mm x 19 mm) per ASTM F626. Provide tension bars where chain link fabric is secured to the terminal post.
- G. Truss rod assembly: Galvanized steel minimum 5/16" (7.9mm) diam rod with pressed steel tightener, in accordance with ASTM F626
- H. Carriage bolts and nuts: Galvanized of commercial quality
- 2.4 TENSION WIRE
- A. Tension wire: ASTM A824 Type II, zinc coated (galvanized) steel wire (0.177") (4.50 mm) diameter wire having a tensile strength of 75, (517 MPa). [Class 4 1.20 oz/ft<sup>2</sup> (366 g/m<sup>2</sup>)] [Class 5 2.00 oz/ft<sup>2</sup> g/m²)]
- 2.5 CHAIN LINK SWING GATE
- A. Swing gates single leaf opening. Fabricate chain link swing gates i accordance with ASTM F900. Gate frame to be of welded construct areas to be protected with zinc-rich paint per ASTM A780. The gat members are to be spaced no greater than 8' 0" (2.44 m) apart or vertically. Exterior members to be 1.900" (48.3 mm) OD pipe, ir members when required shall be 1.660" (42.2 mm) OD pipe. Pipe [Grade 1 ASTM F1083] [Grade 2 ASTM F1043 Group IC] per section Chain link fabric to match specification of fence system. Fabric to stretched tightly and secured to vertical outer frame members usir bar and tension bands spaced 12" (304.8 mm) on center and tied horizontal and interior members 12" (304.8 mm) on center using 9 galvanized steel ties per section 2.04.
- B. Hinges, hot dip galvanized pressed steel or malleable iron, structure of supporting gate leaf and allow opening and closing without bindi Non-lift-off type hinge design shall permit gate to swing 180° (3.1
- C. Latch: Galvanized forked type capable of retaining gate in closed p have provision for padlock. Latch shall permit operation from either gate.
- D. Double gates: Provide galvanized drop rod with center gate stop pi receiver to secure inactive leaf in the closed position. Provide galve pressed steel locking latch, requiring one padlock for locking both leaves, accessible from either side.
- E. Gate holdback: Provide galvanized gate hold back keeper for each over 5' (1524 mm) wide. Gate keeper shall consist of mechanical securing free end of gate when in full open position.
- F. Gate posts: [Grade 1 pipe ASTM F1083] [Grade 2 pipe ASTM F104. per section 2.03, 3" OD
- Gate fabric height up to and including 6 ft. (1.2m) Gate leaf width Outside Diameter (1.2 m) 2.375 in. (60.3 mm) up to 4 ft. over 4 ft. to 10 ft. (1.2 to 3.05 m) 2.875 in. (73.0 mm)
- 2.6 POST SETTING MATERIALS
- A. Concrete: Minimum 28 day compressive strength of 3,000 psi (20
- B. Drive Anchors: Galvanized ASTM A36 steel drive anchor angle blades (25 mm x 25 mm)] [1.25" x1.25" (31.8 mm x 31.8 mm)] x 30 "(7 long secured to post with a galvanized shoe clamp. [drive anchors to post size 2.785" (73.0 mm) OD or less]

#### PART 3 - EXECUTION

- 3.1 SITE EXAMINATION
  - A. Ensure property lines and legal boundaries of work are clearly esta
  - B. Verify areas to receive fencing are completed to final grade.
  - C. Access to the park shall be coordinated with parks staff prior to
  - D. Prior to installation of the fence at the job site the Parks Operation be notified for an inspection of the materials to insure conformity. 393-8186
- 3.2 CHAIN LINK FRAMEWORK INSTALLATION
  - A. Install chain link fence system in accordance with ASTM F567 and manufacturer's instructions.
  - B. Locate terminal post at each fence termination and change in horiz vertical direction of 30° or more.
- C. Space line posts uniformly 10' on center.
- D. Concrete set posts: Excavate holes in firm, undisturbed or compact Holes shall have diameter 4 times greater than outside dimension and depths approximately 6" (152 mm) deeper than post bottom. deeper as required for adequate support in soft and loose soils, and for posts with heavy lateral loads. Set post bottom 36" (914 mm) below surface when in firm, undisturbed soil. Place concrete around posts in a continuous pour. Trowel finish around post and slope to direct water away from posts.

3

per ASTM a 0.137" ing between		Drive Anchor set line posts: With protective cap, drive post 36" (914 mm) into ground. Excavate a 6" (152.4 mm) diameter by 6" (152.4 mm) deep section around post to accommodate the drive anchor shoe clamp. Drive the 2 diagonal drive anchor angle blades into the soil and securely tighten the angle blades to post via the shoe clamp, backfill hole.	Research Drive a, Florida 32615 (352) 331-1976 vw.chw-inc.com a FLORIDA LA0001683
coated in ormed hog luminum for		E. Check each post for vertical and top alignment, and maintain in position during placement and finishing operations.	11801 Alachu wv est. 198
ASTM F626. 2 gauge nimum 300 minimum		F. Bracing: Install horizontal brace and truss assembly at mid—height or above for fences 6' (1829 mm) and over at each fabric connection to the terminal post. The diagonal truss rod is installed at the point where the brace rail is attached to the terminal post and diagonally down to the bottom of the adjacent line post. Place the truss rod in tension by adjusting the turnbuckle.	
o 2 inches ction of ı (stretcher)		G. Tension wire: Install tension wires so that it will be located 4" (101.6 m) up from bottom the fabric. If top rail is not specified, install the tension wire so that it will be located 4" (101.6 mm) down from the top of the fabric. Stretch and install tension wire before installing the chain link fabric and attach it to each post using wire ties.	
neter truss		H. Top rail: Install in lengths of 21' (6400 mm). Connect ends with sleeves forming a rigid connection, allow for expansion and contraction.	
		I. Center Rails: Install mid rails between line posts and attach to post using rail end or line rail clamps. [A center rail is required for fabric height 12' (3658 mm) and over.]	
re, 7 gauge, ,000 psi		J. Bottom Rails: Install bottom rails between posts and attach to post using rail end or line rail clamps.	SCALE INCH ON INCH ON INCH ON ORDINGLY.
² (610	3.3	CHAIN LINK FABRIC INSTALLATION	N/A VERIFY 5 3 IS ONE RIGINAL D RIGINAL D S SHEET, LES ACCO
n tion. Weld ite frame		A. Fabric: Install fabric on security side, pull fabric taut; thread the tension bar through fabric and attach to terminal posts with tension bands spaced maximum of 15" (381 mm) on center and attach so that fabric remains in tension after pulling force is released. Install fabric so that it is 2" (50 mm) +/- 1" (25 mm) above finish grade.	SCALE:
norizontally nterior to be n 2.03. be ng tension to the		B. Secure fabric using wire ties to line posts at 15" (381 mm) on center and to rails and braces 24" (610 mm) on center, and to the tension wire using hog rings 24" (610 mm) on center. Tie wire shall be secured to the fabric by wrapping it two 360 degree turns around the chain link wire pickets. Cut off any excess wire and bend back so as not to protrude so as to avoid injury if a pedestrian may come in contact with the fence	
) gauge	3.4	CHAIN LINK GATE INSTALLATION	
rally capable ling. 14 rad) position and er side of		A. Swing gates: Installation of swing gates and gate posts shall be per ASTM F567. Direction of swing shall be as shown on drawings. Gates shall be hung plumb in the closed position with minimal space from grade to bottom of gate leaf. Double gate drop bar receiver shall be set in a minimum concrete footing 6" (152 mm) diameter by 24" (610 mm) deep. Gate leaf holdbacks shall be installed on all double gates and all gate leafs greater than 5'	uction/BID revisions:
ipe or		F2200 and UL 325]	CONSTR
ranized gate	3.5	ELECTRICAL GROUNDING	
gate leaf		contractor and included in Contract Section 33 79 00.	
device for	3.6	SITE CLEAN UP	
3 Group IC]		created by fence installation.	2
		END OF SECTION	OR REVIE
)			% CD'S FG bocume SET
MPa).			22 - 1009 22 - BID 9
s, [1" x 1"			<u>ыміттас:</u> /21/202 /15/202 )/6/202
(762 mm) s are limited			
			NESVILLE PARK WSPP
ablished.			FOREST F
installation.			C C C
ons shall			CLIENT PROJE
			AN: ?: CONTROL: NUMBER: N_O219
izontal or			TECHNICI JMS JMS JMS CT CT PROJECT
eted soil. of post, Excavate		KNOW WHAT'S BELOW ALWAYS CALL 811	

It's fast, It's free, it's the law. Call 811 two business days before digging

**BEFORE YOU DIG** 

![](_page_40_Picture_0.jpeg)

T.M.P.A. SITE IS LOCATED IN ZONE M OF THE TRANSPORTATION MOBILITY PROGRAM AREA.

AN AUTOMATIC IRRIGATION SYSTEM IS REQUIRED FOR ALL NEW REQUIRED LANDSCAPING INSTALLED [ALACHUA COUNTY LDC SEC. 407.46(A)]. PRIOR TO THE INSTALLATION OF A NEW PERMANENT ÎRRIGATION SYSTEM OR SUBSTANTIAL MÓDIFICATION TO AN EXISTING SYSTEM, AN IRRIGATION PLAN MUST BE SUBMITTED TO AND APPROVED BY THE ALACHUA COUNTY ENVIRONMENTAL PROTECTION DEPARTMENT THROUGH THE ONLINE ALACHUA COUNTY IRRIGATION PROFESSIONAL PORTAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING THE IRRIGATION PLAN THROUGH THE IRRIGATION PROFESSIONAL PORTAL. THE IRRIGATION SYSTEM SHALL COMPLY WITH THE LANDSCAPE IRRIGATION DESIGN AND MAINTENANCE STANDARDS FOUND IN ARTICLE II OF PART II, TITLE 7, CHAPTER 79 OF THE ALACHUA COUNTY CODE, WHICH, AMONG ADDITIONAL DESIGN STANDARDS, LIMITS HIGH VOLUME IRRIGATION TO 60% OF THE LANDSCAPED AREA. FOR MORE INFORMATION, CONTACT THE ALACHUA COUNTY ENVIRONMENTAL PROTECTION DEPARTMENT AT 352-264-6800.

**IRRIGATION** LANDSCAPE IRRIGATION TO BE PROVIDED BY AUTOMATIC IRRIGATION SYSTEM. BUBBLERS SHALL BE INSTALLED BY EACH TREE AS PART OF THE IRRIGATION SYSTEM.

PLANT QUANTITIES SHOWN ARE FOR PERMITTING PURPOSES ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONFIRM ALL QUANTITIES SHOWN ON THE PLAN.

PURCHASING ANY PLANT MATERIAL FOR AN ON SITE INSPECTION AND REVIEW OF LANDSCAPE PLAN.

<u>PLANT MATERIAL</u> ALL PLANT MATERIAL TO BE FLORIDA NO.1 OR BETTER, GRADED IN ACCORDANCE WITH THE STATE OF FLORIDA DEPARTMENT OF AGRICULTURE, DIVISION OF PLANT INDUSTRY'S 'GRADES AND STANDARDS FOR NURSERY PLANTS', CURRENT EDITION AT THE TIME PLANS ARE ISSUED. CALL THE CITY URBAN FORESTRY INSPECTOR AT 352-334-5023 AND LANDSCAPE ARCHITECT PRIOR TO

<u>GRASSING</u> ALL DISTURBED AND UNPAVED AREAS TO BE GRASSED WITH SOD THAT IS FREE OF NOXIOUS WEEDS INCLUDING TROPICAL SODA APPLE OR SHALL BE SEEDED AND MULCHED. SEE CIVIL SITE PLANS FOR ADDITIONAL RELATED INFORMATION.

ALL INVASIVE PLANT SPECIES TO BE REMOVED FROM SITE PRIOR TO ISSUANCE OF THE CERTIFICATE OF OCCUPANCY.

DETAILS AND INFORMATION. INVASIVE EXOTIC PLANT MATERIAL

CALL THE URBAN FORESTRY INSPECTOR FOR A BARRICADE INSPECTION AT 352-334-5023 BEFORE CLEARING AND GRUBBING WORK BEGINS. REFER TO CIVIL PLANS FOR TREE BARRICADE

LEADER SHOOTS AND MAIN STRUCTURAL LIMBS OF TREES SHALL NOT BE TOPPED OR PRUNED. TREES WILL BE STAKED AS NEEDED. GUYLINES WILL BE OF NON-SYNTHETIC BIODEGRADABLE MATERIAL.

NEW TREES OUTSIDE OF MULCHED LANDSCAPED BEDS WILL BE PROTECTED FROM MOWER AND STRING TRIMMER DAMAGE WITH 10" OF PLASTIC DRAIN TUBING.

BE USED IN RETENTION AREAS.

ALL LANDSCAPED AREAS SHALL BE MULCHED WITH 3" THICKNESS OF MULCH. PINE BARK MULCH SHALL BE USED IN ALL AREAS, EXCEPT RETENTION AREAS. PINE STRAW MULCH SHALL

OF SOIL IN SUCH AREAS SHOULD BE AT LEAST 3'. IF FILL MUST BE ADDED, IT MUST BE FLORIDA CLEAN DEEP FILL (FREE OF WEED SEEDS) WITH pH 6.0 - 7.5.

<u>GENERAL NOTES</u> ALL ASPHALT, LIMEROCK, AND CONSTRUCTION DEBRIS SHALL BE REMOVED FROM PLANTING BEDS AND SOD AREAS PRIOR TO LANDSCAPE INSTALLATION. IF ENCOUNTERED DURING CONSTRUCTION OR INSTALLATION, THESE SHALL BE EXCAVATED AND REMOVED FROM THE SITE. PLANTING DEPTH

![](_page_40_Picture_17.jpeg)

2

EXISTING TREES TO REMAIN

NEW TREES TO BE ADDED

<u>TREES</u> PE <u>QTY</u> BOTANICAL NAME 3 QS 3 QUERCUS SHUMARDII QV 10 QUERCUS VIRGINIANA UA ULMUS ALATA 3

PLANT SCHEDULE PINUS ELLIOTTII "DENSA" <u>SOD/SEED</u> SOD A BOTANICAL NAME PASPALUM NOTATUM 'ARG

10" PLASTIC DRAIN TUBING-ROUND-TOPPED SOIL BERM 4" HIGH X 8" WIDE ABOVE ROOT -----BALL SURFACE SHALL BE CONSTRUCTED AROUND THE ROOT BALL. BERM SHALL BEGIN AT ROOT BALL PERIPHERY. SLOPE SIDES OF LOOSENED SOIL.----

SOD B

![](_page_40_Picture_23.jpeg)

![](_page_40_Picture_24.jpeg)

![](_page_40_Picture_25.jpeg)

![](_page_40_Picture_26.jpeg)

				11801 Research Drive Alachua, Florida 32615 (352) 331-1976 www.chw-inc.com	est. 1988 FLORIDA LA0001683
EDULE BOTANICAL NAME PINUS ELLIOTTII "DENSA" QUERCUS SHUMARDII QUERCUS VIRGINIANA ULMUS ALATA BOTANICAL NAME PASPALUM NOTATUM 'ARGENTINE' CYNODON DACTYLON 'TIF TUF'	Common Name Slash Pine Shumard Red Oak Southern Live Oak Winged Elm Common Name Bahia Grass TIF TUF BERMUDA GRASS	SIZE 30 GAL, 12' HT, 42" SPR, 2" CAL 30 GAL, 12' HT, 42" SPR, 2" CAL 30 GAL, 12' HT, 54" SPR, 2" CAL 30 GAL, 10' HT, 4' SPR, 2" CAL SIZE WEED FREE AND SAND GROWN SOD SPRIGGING		SCALE: N/A VERIEY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
STIC BING A 4" COT BING EGIN ERY. OF SOIL. OF SOIL. A 2007 COT COT COT COT COT COT COT COT COT COT	WIDEST NSION OF DT BALL.	<ul> <li>TOP OF ROOT BALL SHALL BE 2" ABOVE FINISHED GRADE.</li> <li>PRIOR TO MULCHING, LIGHTLY TAMP SOIL AROUND THE ROOT BALL IN 6" LIFTS TO BRACE TREE. DO NOT OVER COMPACT. WHEN THE PLANTING HOLE HAS BEEN BACKFILLED, POUR WATER AROUND THE ROOT BALL TO SETTLE THE SOIL.</li> <li>LOOSENED SOIL. DIG AND TURN THE SOIL TO REDUCE COMPACTION TO THE AREA AND DEPTH SHOWN.</li> <li>3" LAYER OF MULCH. NO MORE THAN 1" OF MULCH ON TOP OF ROOT BALL.</li> <li>FINISHED GRADE</li> </ul>		CONSTRUCTION/BID REVISIONS:	
TING DETAIL	X WIDEST AENSION OF OOT BALL.	<ul> <li>4" HIGH &amp; 8" WIDE ROUND TOPPED SOIL BERM ABOVE ROOTBALL SURFACE SHALL BE CONSTRUCTED AROUND THE ROOT BALL. BERM SHALL BEGIN AT ROOT BALL PERIPHERY.</li> <li>PRIOR TO MULCHING, LIGHTLY TAMP SOIL AROUND THE ROOT BALL IN 6" LIFTS TO BRACE SHRUB. DO NOT OVER COMPACT. WHEN THE PLANTING HOLE HAS BEEN BACKFILLED, POUR WATER AROUND THE ROOT BALL TO SETTLE THE SOIL.</li> <li>LOOSENED SOIL. DIG AND TURN THE SOIL TO REDUCE THE COMPACTION TO THE AREA AND DEPTH SHOWN.</li> <li>+ + + + + + + + + + + + + + + + + + +</li></ul>	RUBS/GROUNDCOVER TRIANGULAR SPACED. . SETBACK FOR SHRUBS	TECHNICIAN:     CLIENT:     CLIENT:       JMS     CITY OF GAINESVILLE     SUBMITTALS:       JMS     3/21/2022 - 100% CD'S FOR REVIEW       DESIGNER:     B/15/2022 - BID DOCUMENTS       JMS     10/6/2022 - BID SET       QUALITY CONTROL:     FOREST PARK WSPP	CT SHEET TILE: PROJECT NUMBER: LANDSCAPE NOTES & DETAILS 21-0219
LAWN OR F MULCH 3" MIN AIL	AVED AREA	12" MIN GROUND CURB / PAVEMEN NOTE: THE PERIMETER OF ALL CURVED PLANTING PLANTED WITH A ROW OF SHRUBS AS SHOWN IN AT THE SPACING SHOWN IN THE PLANT LIST. IN OF EACH BED SHALL BE PLANTED AT APPROPRIA ACCORDING TO THIS PLANT SPACING DETAIL.	. SETBACK FOR COVER EDGE OF JT / BED LINE BEDS SHALL BE THE PLANS AND TERIOR PORTIONS TE SPACING	SHEET NO.: L-30	)1

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	LANDSCAPE SPECIFICATIONS	unheal
	1.0 GENERAL	Archite 3. Anothe
	<ul><li>1.1 RELATED DOCUMENTS:</li><li>A. Drawings and general provisions Contract, including General and Supplementary Conditions and Specifications, apply this section.</li></ul>	if any, 4. Replace Contrac
	1.2 SUMMARY: Includes but not limited to: A. Trees B. Palms C. Shrubs	B. Sod and Seed: 1. Warrar rooted 2. Remov
	D. Plants E. Groundcover F. Lawns G. Soil Amendments	conditi C. Repair grades, lav at no additional c
	H. Maintenance of Landscape Materials	2.0 PRODUCTS:
	<ul> <li>1.3 QUALITY ASSURANCE:</li> <li>A. Installer qualifications: Engage a Florida Certified Landscape Contractor (FCLC) who has completed landscape work similar in material, design, and extent to that indicated for this project and with a record of successful tree and shrub establishment and conforms to the following: <ol> <li>Contractor shall maintain FCLC certification under the auspices of the Florida Nursery, Growers and Landscape Association (FNGLA);</li> <li>Installer's Field Supervision: Require Installer to maintain an experienced full-time supervisor on the project site during times that tree and shrub planting is in progress. See Submittals 1.8.</li> </ol> </li> </ul>	<ul> <li>2.1 DEEP FILL:</li> <li>A. If required, new f brush, weeds, roo harmful to plant o silt. Soil shall hav</li> <li>B. Obtain soil from r</li> <li>C. Provide finish gra</li> <li>D. Soil shall have a p</li> <li>E. Soil shall be tested</li> </ul>
	<ul><li>1.4 SOURCE QUALITY CONTROL:</li><li>A. Do not make substitutions. If specified landscape material is not obtainable, submit proof of non-availability to Landscape Architect, together with proposal for use of equivalent material.</li></ul>	analysis to the La Landscape Archite
	<ul> <li>1.5 ANALYSIS AND STANDARDS:</li> <li>A. Package standard products with manufacturer's certified analysis. For other materials, provide analysis by recognized laboratory made in accordance with methods established by the Association of Official Agriculture Chemists, wherever applicable.</li> </ul>	2.2 MOLCH: A. All landscaped at 2.3 COMMERCIAL FERTILI A. Read and follow a
1	<ul> <li>1.6 TREES, PALMS, SHRUBS, AND PLANTS:         <ul> <li>A. Provide plant material of quality, size, genus, species, and variety shown and scheduled for landscape work and complying with recommendations and requirements of "Grades and Standards for Nursery Plants," published by the Florida Department of Agriculture and Consumer Services, Division of Plant Industries, current edition at the time the plans are issued. Provide healthy, vigorous stock, grown in recognized nursery in accordance with good horticultural practices and free of disease, insects, eggs, larvae, and defects such as knots, sun-scald, injuries, abrasions, or disfigurement.</li> </ul> </li> </ul>	<ul> <li>(dripline). Do not fertilizer product</li> <li>B. Fertilize all trees a fertilizer of appro</li> <li>C. Palms and shrubs shall be in slow re of slow release ni polymer coated. approximately 1.5</li> </ul>
	<ul> <li>A. The Landscape Architect may inspect plant material either at place of growth or at site before planting, for compliance with requirements for genus, species, variety, size, and quality. Landscape Architect retains the right to further inspect trees, shrubs, and groundcover for size and condition of balls and root systems, insects, injuries and latent defects, and to reject unsatisfactory or defective material at any time during the process of work. Remove rejected trees or shrubs immediately from project site.</li> </ul>	(0.15%), and Cu 2.4 PLANT MATERIALS: A. Quality: Provide t shown and sched B. Provide document
	<ul> <li>1.8 SUBMITTALS:</li> <li>A. Schedule of Values: Prior to the commencement of work, the Contractor shall submit installed unit prices for all: plant materials (mulch included in the the installed unit price of the plant), seeding, sodding, and/or sprigging. The schedule of values should equal the total contract price for landscape installation.</li> <li>B. Maintenance Schedule: The Contractor shall submit a maintenance schedule for the maintenance period.</li> <li>C. Typewritten instructions providing procedures to be established by the Contractor for maintenance of landscape work for warranty period.</li> <li>D. Written plant and grassing guarantee to cover warranty period.</li> </ul>	A. Sod: Provide san undesirable native excluding top gro planted (viable, n the Landscape Arc percent deviation acceptable. Sod p a firm grasp on up <u>3.0 EXECUTION:</u>
	E. A copy of current certificate as a certified Contractor by the Florida Nursery Growers Association.	3.1 PREPARATION: A. Lay out individual
	<ol> <li>DELIVERY, STORAGE, AND HANDLING:         <ul> <li>Packaged Materials: Deliver packaged materials in containers showing weight, analysis, and name of manufacturer. Protect materials from deterioration during delivery, and while stored at site.</li> <li>Sod: Time delivery so that sod will be placed within 24 hours after stripping. Sod delivered later than 24 hours from time of cutting, shall not be accepted on the job site. Sod shall be harvested, delivered and installed within this period shall be inspected prior to its installation. Protect sod against drying and breaking of pieces. Sod shall not be harvested or transplanted when moisture content (excessively dry or wet) may adversely affect its survival.</li> <li>Trees and Shrubs: Do not prune prior to delivery unless otherwise approved by the Landscape Architect. Do not bend or bind-tie trees or shrubs in such a manner as to damage bark, break branches, or destroy natural shape. Provide protective covering during delivery. Deliver trees and</li> </ul> </li> </ol>	<ul> <li>A. Lay out individual and secure Lands as may be require</li> <li>3.2 PREPARATION OF PLA A. Before mixing, cle materials harmful</li> <li>B. Mix specified soil fertilizer if plantin</li> <li>C. For planting grou and mix thorough</li> </ul>
-0219-Design-Base.dwg	<ul> <li>shrubs after preparations for plantings have been completed and plant immediately. If planting is delayed more than six (6) hours after delivery, set trees and shrubs in shade, protect from weather and mechanical damage, and keep roots moist by covering with mulch, burlap or other acceptable means of retaining moisture. Do not remove container grown stock from containers until planting time.</li> <li>1.10 JOB CONDITIONS:         <ul> <li>A. Utilities: Determine location of underground utilities and perform work in a manner which will avoid</li> </ul> </li> </ul>	<ul> <li>3.3 PREPARATION FOR PL</li> <li>A. Preparation of un or disturbed by ex</li> <li>Remove existing a if weeds are still p</li> <li>B. Remove high area lumps, clods, stor</li> <li>C. Allow for sod thic</li> </ul>
WGs\02_CDs\Current\21	<ul> <li>possible damage. Hand excavate as required. Maintain grade stakes set by others until removal is mutually agreed upon by all parties concerned.</li> <li>B. When conditions detrimental to plant growth are encountered, such as rubble fill, adverse drainage conditions, or obstructions, notify Landscape Architect before planting.</li> <li>C. Weather: When weather conditions detrimental to plant growth are encountered or anticipated, notify Landscape Architect before planting.</li> <li>1.11 SEQUENCING AND SCHEDULING:</li> </ul>	<ul> <li>D. Apply specified control topsoil. delay apple.</li> <li>E. Fine grade lawn areas, remonareas which can be find to dry before plan</li> <li>C. Parlan areas have before plan</li> </ul>
n\02_D\	A. Maintenance Period: Maintain all plantings during installation of work and until final acceptance by the Owner.	G. Restore lawn area to planting.
nts\03_Desig	B. Coordination with Lawns: Plant trees, palms, shrubs, and ground cover after final grades are established and prior to planting of lawns, unless otherwise acceptable to Landscape Architect. If planting of trees and shrubs occurs after lawn work, protect lawn areas and promptly repair damage to lawns resulting from planting operations.	3.4 EXCAVATION FOR TRE A. Excavation pits, b center to provide B. Fill excavations for
Filename: N:\2021\21-0219\Departme	<ul> <li>1.12 PROJECT WARRANTY:</li> <li>A. Trees, shrubs, and groundcover: <ol> <li>Warranty trees, shrubs, and groundcover for a period of twelve (12) months beyond the date of final acceptance, against defects including death and unsatisfactory growth, except for that resulting from neglect by Owner, abuse or damage by others, or unusual phenomena or incidents which are beyond the Contractor's control.</li> <li>Remove and replace trees, shrubs, and groundcover found to be dead or unhealthy during the warranty period. Replace trees, shrubs, and groundcovers which are dead or</li> </ol> </li> </ul>	<ul> <li>3.5. PLANTING TREES AND</li> <li>A. Set plant material trench with top or additional backfill voids and air poch remainder of back layer of backfill.</li> <li>B. Dish top of backfil</li> <li>C. Mulch pits, trench work onto top of</li> <li>D. Prune, thin out, a</li> </ul>
ls Plot Date: Oct 06,2022 3:57pm f	KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG It's fast, It's free, it's the law.	trees to retain red cut tree leaders, a to retain natural o E. Remove and repla F. Guy and stake tre maintain an uprig G. Remove all nurser 3.6 SODDING NEW LAWNS A. Lay sod within 24 B. Lay sod to form a
sh: john−micha€	Call <u>811</u> two business days before digging	

- Althy during the warranty period; unless, in the opinion of the Landscape eect, it is advisable to to extend warranty period for another full growing season. er warranty inspection will be conducted at the end of the extended warranty period, , to determine acceptance or rejection.
- acement plant material shall meet the specifications set forth in the ract Documents.
- anty all grassing for 30 days beyond final acceptance and until all grass is fully
- by and replace all grass found to be dead or in an unhealthy condition during warranty d as determined by the Landscape Architect Make replacements as soon as weather itions permit.
- lawns, paving, and any other damage resulting from replacement planting operations, costs to the Owner.
- *i* fill shall be sandy/loam texture that is fertile, friable, and free of clay lumps, muck, oots, stumps, stones, asphalt, and other extraneous debris, littler, or toxic material t growth. A sandy loam soil is defined as approximately 60% sand, 10% clay, and 30%
- ave a range of 3-5% organic content. naturally well-drained sites.
- ade matching surrounding soil.
- PH range of 6.0-7.5
- ted for pH and organic content by an Landscape Architect-approved independent testing to placement at no additional cost to the Owner. Provide soil sample with soil test Landscape Architect prior to delivery of material to the site. At the discretion of the itect, additional testing of material may be required.
- areas shall be mulched with 3" thickness of pine bark mini nugget mulch.

#### IZER:

- v all manufacturer's instructions for fertilizer. Apply fertilizer just inside the plant foliage not apply fertilizer on stems or exposed roots of plant material. Contractor shall submit it label to Landscape Architect for review and approval prior to applications. s at the manufacturer's recommended rate with a 12 month slow release, complete roximately 3:1:2 ratio including minor elements.
- bs: fertilize with an 8n-2p2o5-12k2o+4mg with micronutrients. 100% of N, K, and Mg release form and micronutrients shall be in sulfate or chelate (Fe only) form. 5.60 units nitrogen shall be polymer coated. 5.60-8.40 units of slow release potash shall be
- . Slow release mg shall be prilled (granular) kieserite. Fertilizer shall contain 1.5-2% Mn and Fe (0.1-0.2% for Fe if chelated), plus trace amounts of B (0.15%), Zn u (0.05%).
- e trees, shrubs, groundcover, and other plants of size, genus, species, and variety eduled for landscape work and complying with Florida No. 1 quality standards. entation from nursery of all cultivars and/or varieties.
- and grown only, strongly rooted sod, not less than two (2) years old, free of weeds and tive grasses, and machine cut to pad thickness of 3/4" inch (plus or minus 1/4" inch), rowth and thatch. Provide only sod capable of vigorous growth and development when , not dormant). Rolled sod will not be acceptable unless written approval is provided by Architect prior to installation. Provide sod of uniform pad sizes with a maximum 5% on in either length or width. Broken pieces or pads with uneven ends will not be d pieces or pads incapable of supporting their own weight when suspended vertically with upper 10% percent of pad will be rejected.
- ual tree, shrub, and groundcover location and areas for multiple plantings. Outline areas idscape Architect's acceptance before start of planting work. Make minor adjustments uired.
- ANTING SOIL FOR TREES AND SHRUBBERY:
- clean existing soil of roots, plants, sod, stones, clay, lumps and other extraneous ful or toxic to plant growth.
- il amendments and fertilizers with existing soil at rates specified. Delay mixing of ing will not follow placing of planting soil within a few days. Sundcover beds mix planting soil either prior to planting or apply on surface of ground ghly before planting.
- LANTING LAWNS:
- unchanged grades: where lawns are to be planted in areas that have not been altered excavating, grading, or stripping operations, prepare soil for lawn planting as follows: g grass, vegetation, and turf. Spot spray with approved herbicide
- Il present. Do not turn existing vegetation over into soil being prepared for lawns. reas and fill depressions. Grade soil to a homogeneous mixture of fine texture, free of cones, roots, and other extraneous matter.
- ickness in areas to be sodded.
- commercial fertilizer at rates specified and thoroughly mix into upper two (2) inches of pplication of fertilizer if lawn planting will not follow within a few days. areas to smooth, even surfaces with loose, uniformly fine texture. Roll, rake, and drag nove ridges and fill depressions, as required to meet finish grades. Limit fine grading to be planted immediately after grading.
- d lawn areas before planting if soil is dry. Water thoroughly and allow surface moisture anting lawns. Do not create a muddy soil condition. eas to specified condition, if eroded or otherwise disturbed, after fine grading and prior

#### EES AND SHRUBS:

beds, and trenches with vertical sides and with bottom of excavation slightly raised at e proper drainage. Loosen hard subsoil in bottom of excavation. for trees and shrubs with water and allow water to percolate out prior to planting.

#### ND SHRUBS:

- rial stock on layer of compacted soil, plumb and in center of pit or
- of ball at same elevation as adjacent finish landscape grades. When set, place fill around base and sides of ball, and work each layer to settle backfill and eliminate ockets. When excavation is approximately 2/3 full, water thoroughly before placing ackfill. Repeat watering until no more is absorbed. Water again after placing final

#### fill to allow for mulching.

- inches, and planted areas. Provide not less than the specified thickness of mulch, and of backfill and finish level with adjacent finish grades. , and shape trees and shrubs in accordance with standard horticultural practice. Prune
- equired height and spread. Unless otherwise directed by Landscape Architect, do not , and remove only injured or dead branches from flowering trees, if any. Prune shrubs I character. blace excessively pruned or misformed stock resulting from improper pruning.
- rees immediately after planting, as needed. Contractor is responsible for ensuring trees ight and plumb position.
- ery ties and staking from trees prior to completion of work.

#### NS: 24 hours from time of stripping.

a solid mass with tightly fitted joints. Butt ends and sides of sod strips; do not overlap.

- Stagger strips to offset joints in adjacent courses. Avoid damage to subgrade or sod. Anchor sod on slopes with wood pegs to prevent slippage, if needed.C. On slopes, lay sod perpendicular to the direction of the slope. Peg all sod on slopers over 4:1 if slippage
- occurs. Any slippage is Contractor's responsibility. D. Water sod thoroughly with a fine spray immediately after planting.
- 3.7 PLANTING GROUNDCOVER:
- A. Triangle space groundcover plants as indicated or scheduled.
- B. Dig holes large enough to allow for spreading of roots and backfill with planting soil. Work soil around roots to eliminate air pockets and leave a slight saucer indentation around plants to hold water. Water thoroughly after planting, taking care not to cover crowns of plant with wet soils.
- 3.8 MAINTENANCE PLANTINGS:
- A. Begin maintenance immediately after planting.B. Maintain trees, shrubs, groundcover, and other plants until final acceptance by the Owner.
- C. Maintain trees, shrubs, groundcover, and other plants until initial acceptance by the Owner.
   C. Maintain trees, shrubs, groundcover, and other plants by pruning, cultivating, watering and weeding as required for healthy growth. Restore planting saucers. Tighten and repair stake and guy wire supports and reset trees and shrubs to proper grades of vertical position as required. Spray as
- required to keep trees and shrubs free of insects and disease.D. Site should be weed-free at time of substantial completion. An additional inspection will be made at the end of the maintenance period. Site should also be weed-free at the end of the maintenance period.
- 3.9 MAINTENANCE GRASSING:
- A. Maintain seeded, sodded, and/or sprigged lawns for 30 days beyond final acceptance by the Owner.
  B. Maintain lawns by watering, fertilizing, weeding, mowing, trimming, and other operations such as rolling, gradings, and replanting as required to establish a smooth, acceptable lawn, free of eroded, bare, and/or weedy areas.
- 3.10 CLEANUP AND PROTECTION:

A. During landscape work, keep pavements clean and work area in an orderly condition.

- 3.11 TREE PRUNING:
  - A. Work consists of pruning and fertilizing designated existing trees for health and vigor.
     B. Perform tree pruning and cavity work by an ISA Certified Arborist.
  - Remove dead wood 1/2" or more in diameter, branches interfering with or hindering the healthy growth of the trees, and diseased branches with a clean cut made flush with the parent trunk. Cut back or remove branches as necessary to give the trees proper shape and balance. In removing large limbs, make the initial cut on the underside at a safe distance from the trunk or lateral, to prevent ripping of bark. Ensure branches and trimmings do not endanger traffic or cause damage to property during removal. Section large branches or limbs that cannot be removed in one piece without endangering traffic or property. Lower sections by ropes. Repair any damage resulting from the Contractor's negligence during pruning. Workmen are not permitted to climb trees with climbing spurs. To promote proper healing, cut off flush stubs or limbs that have resulted from improper cuts or broken as a result of former pruning. Remove girdling roots. Remove decayed wood to expose healthy tissue. Shape cavities to provide drainage.
- 3.12 TREE AND PLANT PROTECTION:
  - A. Protect landscape work and materials from damage due to landscape operations, operations by other contractors and trades, and trespassers. Maintain protection during installation and maintenance period. Treat, repair, or replace damaged landscape work as directed.
  - B. Trees which are to remain in the construction area shall be protected from damage throughout the construction process by the Contractor.
     C. Protect the tage true/e and rests of existing trees on the project site that are to remain. Existing
  - C. Protect the tops, trunks, and roots of existing trees on the project site that are to remain. Existing trees subject to construction damage shall be boxed, fenced or otherwise protected before any work is started per details in plans. Remove protection only when authorized by Landscape Architect.
     D. Do not parmit began equipment or stocknike within branch caread. Remove interfering branches.
  - D. Do not permit heavy equipment or stockpiles within branch spread. Remove interfering branches without injury to trunks.E. All roots of trees to remain that are immediately adjacent to extensive excavation shall be exposed by hand diaging and hand cut or sawn cleanly, avoiding any stripping of bark. Cover all exposed roots
  - hand digging and hand cut or sawn cleanly, avoiding any stripping of bark. Cover all exposed roots immediately to avoid drying out.

#### 3.13 BARRIERS:

- A. Preserve and protect existing trees and plants at the site which are designated to remain and those adjacent to the site.
- B. Consult with Landscape Architect and remove agreed upon roots and branches which interfere with
- construction. Employ an ISA Certified Arborist to remove any necessary branches. C. Provide temporary barriers per tree barricade detail around each tree as per the drawings.
- D. Protect root zones of trees and plants:
  - 1. Do not allow vehicular traffic or parking.
  - 2. Do not store materials or products.
  - 3. Prevent dumping of refuse or chemically injurious materials or liquids.
  - 4. Prevent puddling or continuous running water.
- E. Carefully supervise excavating, grading, and filling and subsequent construction operations to prevent damage.
- F. Replace or suitably repair trees and plants designated to remain which are damaged or destroyed due to construction operations.

3.14 BARRICADE REMOVAL:

A. Completely remove barricades, including foundations, when construction has progressed to the point that they are no longer needed, and when approved by Landscape Architect.B. Clean and repair damage caused by installation. Fill and grade the areas of the site to required elevations and slopes, and clean the area.

#### 3.15 INSPECTION AND ACCEPTANCE:

- A. When landscape work is completed, including maintenance, Landscape Architect will, upon request, make an inspection to determine acceptability.B. Landscape work may be inspected for acceptance in portions as agreeable to Landscape Architect,
- provided each portion of the work offered for inspection is complete, including maintenance.C. When inspected landscape work does not comply with requirements, replace rejected work and
- continue specified maintenance until re-inspected by Landscape Architect and found to be acceptable. Remove rejected plants and materials promptly from project site.

END OF SECTION

#### SECTION 02824 - SPORT FIELD SPRIGGING

#### PART 1 - GENERAL

- 1.1 SCOPE OF WORK: Provide all labor, materials, equipment, incidentals necessary to install the sport field turf areas, in accordance with the drawings and as specified, including grow in and maintenance of the field until acceptance by the Owner.
- 1.2 SUBMITTALS:
- A. Provide a list of proposed suppliers and subcontractors to the Owner/Landscape Architect for review and approval.
- B. Identify proposed mature weed/pest free source for sport field sprig material for bid.C. Certify to the Owner/Landscape Architect that sprig / sod material complies with requirements of
- respective sport field areas.
- D. Submit labels for fertilizer and fertilization schedule to the Owner/Landscape Architect at least one week prior to use.E. Contractor shall submit proof appropriate specified equipment.
- F. Certified Pesticide Applicator. Provide copies of current license of Pesticide Applicator. Certification to be maintained for duration of work.

#### 1.3 GENERAL REQUIREMENTS:

- A. Grade to a finished grade and notify Owner/Landscape Architect for inspection prior to sprigging.
- B. Prior to final laser grading, incorporate Green Edge 5-3-0 into rootzone at a rate of 1 ton per acre.
- C. All sport field areas shall be graded prior to sprigging to meet elevation specifications. Laser grade the final grade + or 1/4" from the proposed elevations.
- D. Before sprigging, certify to the Owner/Landscape Architect that the sport field grades conform to the desired final grades and has no undulations to exceed + or 1/4".
- E. Check and verify automatic operation of the irrigation system and head-to-head coverage. Reviews of area coverage and uniformity shall be performed prior to sprigging.
   F. Apply Green Edge 5-3-0 at 2,000 lbs. per acre.
- G. Apply Ronstar pre-emergent herbicide at label rate and water in according to label.H. Contractor shall protect sprigging area and provide adequate erosion control.

#### 1.4 GUARANTEE:

A. The Contractor shall guarantee the sprig areas to be 100% grown-in, weed-free, dense field upon project final acceptance.

#### PART 2 - PRODUCTS

2.1 MATERIALS:

A. Sprigs - Pine Creek Turf certified TifTuf Bermuda grass, 3" in length, 12 hour cut to install time.
B. Fertilizer shall be a balanced, fairway grade commercial fertilizer with a 1-1-1 ratio. It shall be delivered to the site in the original unopened containers each showing the manufacturer's guarantee analysis. Store fertilizer so that when used it shall be dry and free flowing.

#### PART 3 - EXECUTION

3.1 SPRIGGING:

- A. Plant sprigs over the prepared area at a rate of 1,000 bushels per acre. Press into the top 2" of soil with sprig planter. Roll with 1 ton steel rollers to firm the planting bed. After planting, springs shall be additionally cut in with sprig crimper.
- 3.2 DRY SPRIGS: Sprigs that are planted that are dry from travel to the playing field will be removed and replanted at contractor's expense.
- 3.3 STEEL ROLLER OPERATION: The Contractor shall start rolling the sprigged areas a minimum of 7 days after completion of sprig installation operation. Rolling shall be scheduled for a minimum of a one time per every 10 (ten) day cycle. Steel Wheel Roller to be approved by Owner/Landscape Architect.
- 3.4 IRRIGATION: Water sprigs as soon as they are planted. Keep planted areas continuously moist by watering as often as required through the day during the first three weeks following planting (or until rooting occurs) at a rate of 1/10th of a foot of water per application. Once rooting occurs, decrease watering frequency to once daily at a rate of 1/4" of water per application.
- 3.5 FERTILIZATION: One week after planting, fertilize with Green Edge 6-4-0 Plus at a rate of 1,000 lbs. per acre. Two weeks after planting apply ammonium sulfate at a rate of ½ lbN/1,000 sq.ft. Three weeks after planting apply 10-10-10 at 200 lbs. per acre. Four weeks after planting apply Green Edge 12-3-6 plus at 400 lbs. per acre. Five weeks after planting apply ammonium sulfate at ¾ lb.N/1,000 sq.ft. Six weeks after planting apply Green Edge 6-4-0 plus at a rate of 1,000 lbs. per acre and Green Edge 12-3-6 plus at 3/4lb.N/1,000 sq.ft. Eight weeks after planting apply Green Edge 15-5-10 Plus Liquid fertilizer. The applications and rates shall apply unless directed otherwise by Landscape Architect.
- 3.6 MOWING: Begin mowing, with sharp reel mower, when Bermuda grass reaches a height of approximately 3/4". Mow at least once per week, or more frequently if necessary so that no more than 1/3 of the leaf blade is removed at any one time.
- 3.7 WEED/PEST CONTROL: Apply herbicides when necessary to control weeds in accordance with the manufacturer's recommendations and with any applicable City, County, State or Federal government agency requirements regulating the use of herbicides.

3.8 MAINTENANCE:

- A. Maintenance shall begin immediately following the last sprigging operation and shall continue for a minimum 90 day period or until established turf covers 98% of area and in accordance with the following requirements.
- 1. Maintain all sprigged areas keeping grass in a neat manner by watering, edging, mowing, raking clippings and leaf removal until the final acceptance of the specific field.
- 2. Owner to install field barricades to protect all work from damage by other contract work.
- 3. During the maintenance period, Contractor shall cut all sprigged areas, within project area, as needed to assure good field growth and pay all expenses until final acceptance of accepted field.
- 4. Periodically during grow-in, a site inspection will be conducted by the Owner/Landscape Architect to determine the status of sprig grow-in.

END OF SECTION

![](_page_49_Figure_122.jpeg)

	1.0 GENERAL	
	1.1 SUMMARY: Includes but not limited to:	B. Installation of Pla
	A. Furnishing and installing sprinkler system as described in Contract Documents complete with accessories necessary for proper functioning.	1. Install plasti Manufacture 2. Unless other
	1.2 SYSTEM DESCRIPTION:	inches base
	A. Design Requirements: 1. Layout of Irrigation Heads: a. Logation of boods shown on Drawings is enpressimate. Actual placement may year velightly as	3. Install pipe a
	is required to achieve full, even coverage without spraying onto buildings, sidewalks,	4. Locate no sp immediately
А	<ul> <li>b. During layout, consult with Landscape Architect to verify proper placement and make recommendations, where revisions are advisable.</li> </ul>	mowing strip mowing strip
	1.3 OLIALITY ASSURANCE.	5. Drawings sh approval of l
	A. Regulatory Requirements: 1. Work and materials shall be in accordance with latest rules and regulations, and other applicable	6. Cut plastic p result.
	state or local laws. Nothing in Contract Documents is to be construed to permit work not conforming to these codes.	7. Make solver a. Clean m
	B. Pre-Installation Conference: 1. Meet with Owner and Landscape Architect to discuss and clarify all aspects of iob requirements	each. b. Apply ui
	prior to commencing work of this Section. C. System Adjustments:	c. Apply so d. Reapply
	1. Minor adjustments in system will be permitted to avoid existing fixed obstructions. 2. Mainline, laterals, and valves are shown for clarity purposes only. All irrigation equipment to be	e. Give pip is insert
	with landscape area. Mainline, laterals and valves to be installed as far away from existing and new specimen trees as possible.	f. Hold in p g. Wipe of
	D. 1. Documentation and submittal of actual water supply performance prior to commencing installation. Irrigation contractor shall verify water meter produces a minimum of 25 gpm @ 45 psi.	h. Do not ו inside o
	1.4 SUBMITTALS:	i. Allow joi 8. Tape thread
	A. Record Drawings: 1. Prepare an accurate as-built drawing as installation proceeds to be submitted prior to final	9. Install concr unless other
	inspection. Drawing shall include: a. Detail and dimension changes made during construction.	C. Control Valves al 1. Install contro
	<ul> <li>b. Significant details and dimensions not shown in original Bidding Documents.</li> <li>2. Maintain, at job site, one copy of Contract Documents (as defined in General Conditions) and</li> </ul>	and accordination 2. Install valves
	relevant shop drawings. 3. Clearly mark each document "PROJECT RECORD COPY" and maintain in good condition for use of	3. Install remot
	the Landscape Architect and Owner. 4. As-built drawing shall be provided in PDF format.	4. Install all val
в	<ol> <li>Submit product literature for all sprinklers, valves, pipe, wire, wire connectors and controller.</li> <li>Final payment for system will not be authorized until accurate and complete submittals are</li> </ol>	D. Sprinkler Heads: 1. Prior to the i
	delivered to the Landscape Architect. B. Instruction Manual:	2. Set sprinkler
	1. Provide instruction manual which lists complete instructions for system operation and maintenance.	F. Well:
	1.5 PRODUCT STORAGE:	The system
	A. During construction and storage, protect materials from damage and protonged exposure to sumight.	IT-ABF-75
	A. Standard one (1) year warranty stipulated in General Conditions shall include:	2. The well st a. At the re
	<ol> <li>Completed system metading parts and labor.</li> <li>Filling and repairing depressions and replacing plantings due to settlement of irrigation trenches for one (1) year following final acceptance</li> </ol>	b. Water si 2 parts
	3. System adjustment to supply proper coverage to areas to receive water.	c. Maximu d. Maximu
	1.7 MAINTENANCE: A. Extra Materials:	3.3 ADJUSTMENT AND
	<ol> <li>In addition to installed system, furnish Owner with the following items at close-out:         <ul> <li>a. Two sprinkler head bodies of each size and type.</li> </ul> </li> </ol>	A. Adjust heads to p appreciable harm
	b. Two nozzles for each size and type. c. Two adjusting keys for each sprinkler head cover type.	additional charge B. Adjust sprinkler h
	2.0 PRODUCTS:	C. Adjust watering t
	2.1 PIPE, PIPE FITTINGS, AND CONNECTIONS:	3.4 Testing: A. The irrigation cor
	A. Pipe shall be continuously and permanently marked with Manufacturer's name, size, schedule, type, and working pressure.	
an.dwg	B. Pipe: 1. Pressure Lines: as indicated on plans.	3.5 DEMONSTRATION: A. After system is in
C ation PI	2. Lateral Lines: as indicated on plans. 3. Risers: sch. 80 PVC, gray	maintenance.
0_Irrigo	C. Fittings: 1. Schedule 40 PVC.	
is\L−40	1. Schedule 40 PVC.	
5_Sheei	2.2 SPRINKLER HEADS: A Conform to requirements shown on Drawings as to type, radius of throw, pressure, and discharge	
rrent\0	2.3 AUTOMATIC SPRINKI FR SYSTEM	
CDs/ Cu	A. Control valves shall be of size and type indicated on Drawings. B. Control wire shall be 14 gauge single strand UL listed for direct burial.	
Gs\02_	C. All wire splices shall be made with 3M-DBY wire connectors. C. Install three spare control wires from the controller with the entire mainline.	
.02_DW	2.4 VALVES:	
Design	A. Electric Valves: 1. Make and model shown on Drawings.	
ts\03_	B. Gate valves: 1. Bronze construction, angle type, 150 pound class, threaded connections, with cross-type	
oartmer	operating handle designed to receive operating key. C. Automatic Controller:	
219\De	1. Make and model shown on Drawings. D. Backflow Preventor:	
/21-0	1. Make and model shown on Drawings.	
4:\2021	2.0 VALVE AUGESSUKIES: A. Valve Boxes: 1. Amotok or Procke rootengular begun dutu value bevuitte teating lid en hander wat in t	
Jame:	<ol> <li>Americk or brooks rectangular neavy duty valve box with locking lid or Landscape Architect approved equal.</li> <li>Do not install more than one (1) valve in a single box.</li> </ol>	
L r File	3. Valve boxes shall be large enough for easy removal or maintenance of valves.	
с 3:57pn	3.0 EXECUTION:	
<b>16,2022</b>	3.1 PREPARATION: A. Protection:	K O K K I
ë Oct 0	<ol> <li>Work of others damaged by this Section during course of its work shall be replaced or repaired by original installer at this Section's expense.</li> </ol>	
lot Date	3.2 INSTALLATION:	
E S B	A. Trenching and Backfilling: 1. Over-excavate trenches by two (2") inches and bring back to indicated depth by filling with fine.	
- michc	rock-free soil or sand. 2. Cover pipe both top and sides with two (2") inches of material specified in paragraph above. In	
ĮĘ	no case shall there be less than two (2") inches of rock-free soil or sand surrounding pipe	l

#### astic Pipe:

ic pipe in a manner to provide for expansion and contraction as recommended by

erwise indicated on Drawings, install main lines with a minimum cover of twenty four (24") ed on finish grade. Install lateral lines with a minimum cover of eighteen (18") inches nish grade. and wires under driveways or parking areas in specified sleeves a minimum of

18") inches below finish grade or as shown on Drawings. prinkler head closer than twelve (12") inches from building foundation. Heads

adjacent to mowing strips, walks or curbs shall be one (1") inch below top of rip, walk or curb and have a minimum of one (1") inch clearance between head and ip, walk or curb.

show arrangement of piping. Should local conditions necessitate rearrangement, obtain Landscape Architect prior to proceeding with work. pipe square. Remove burrs at cut ends prior to installation so unobstructed flow will

ent weld joints in the following manner: mating pipe and fitting with clean, dry cloth and apply one (1) coat of P-70 primer to

uniform coat of 711 solvent to outside of pipe.

solvent to fitting in similar manner. oly a light coat of solvent to pipe and quickly insert into fitting.

pipe or fitting a quarter turn to insure even distribution of solvent and make sure pipe rted to full depth of fitting socket.

position for fifteen (15) seconds minimum or long enough to secure joint.

off solvent appearing on outer shoulder of fitting. use an excessive amount of solvent thereby causing an obstruction to form on the of pipe.

oints to set at least 24 hours before applying pressure to PVC pipe. ded connection with teflon tape.

crete thrust blocks wherever change of direction occurs a PVC main pressure lines rwise detailed on Drawings.

and Controller: oller, control wires, and valves in accordance with Manufacturer's recommendations ding to applicable electrical code.

ves in plastic boxes with reinforced heavy duty plastic covers. Locate valve box tops at

ote control valves in valve boxes positioned over valve so all parts of valve can be r service. Set cover of valve box even with finish grade. valve boxes over nine (9") inches of gravel for drainage.

installation of sprinkler heads, open control valves and use full head of water to flush

r heads perpendicular to finish grade. prinkler heads adjacent to existing walks, curbs, and other paved areas to grade.

shall be a 5" well with a Goulds 5hp submersible pump with a Goulds Aquavar SPD drive. em shall include the installation of a pressure tank and all fittings required for a complete

water system capable of providing 85 gpm @ 65 psi. The well shall have a Toro 7585-3X-N Filter with a 85 mesh screen installed at the discharge of the system. All equipment shall n a Allied AE100 fiberglass enclosure.

shall be capable of providing required water quantity with the following water quality: required flow water shall be clear and free of sand and other debris larger than .030" in diameter. hall be considered sand free when no sample, taken during test pumping, contains more than per million of suspended solid weight.

num iron allowed in the water shall be less than 1.3 parts per million. num salt content allowed in the water shall be less than 300 parts per million.

#### CLEANING:

proper grade when turf is sufficiently established to allow walking on it without Such lowering or raising of of heads shall be part of the original contract with no

e to the Owner.

neads for proper distribution and trim to ensure spray does not fall on building. time of valves to provide proper amounts of water to all plants.

ontractor shall test the mainline at 100 psi for the period of two hours. The mainline shall mum of 95 psi throughout the test. Notify the owner representative 48 hours prior to the test

nstalled and approved, instruct Owners Representative in complete operation and

END OF SECTION

RRIGATION SCHEDULE				search Drive lorida 32615 52) 331-1976 chw-inc.com LA0001683
	۵RC	PSI		01 Rec 7.3 888 <b>F</b>
Two Hunter HE-60T	360	30	2 x.12 3'	Alaci est. 1
YMBOLMANUFACTURER/MODEL/DESCRIPTION(15)Hunter I-25-04 on Prefabricated 1" S	<u>PSI</u> Swing Joint 50	<u>GPM</u> 13.4	RADIUS 56'	
YMBOL MANUFACTURER/MODEL/DESCRIPTION				nsultants
Hunter ICV in a 12" Valve Box Install a Nibco T113 2" Isolation Valve prior to each group of control valves.	in a 12" Valve Box			
$\langle X \rangle$ Nibco T113 2-1/2" Isolation Valve in	a 12" Valve Box			
Hunter A2C-3000-PL 30 Station Cont	roller			
(S) Hunter Miniclik Rain Sensor				
(FS) Hunter ICV-201G Master Valve And Cro FSI-T20-001 in separate 12" Valve Bo	eative Sensor Technology oxes.			CALE INCH ON RAMNG INCH ON INCH ON RDUUST
₩ 5" Well with Goulds 85GS 7.5 hp Pum	p			. N/A VERIFY S NE IS ONE DRIGINAL D DRIGINAL D ALES ACCC
Irrigation Lateral Line: PVC Class 200				SCALE SCALE
Irrigation Mainline: PVC Class 200 3"				
Valve Callout         Valve Number         Valve Flow         Valve Size         1         FINISH GRADE         1         2         4" ROTOR HEAD         3         1" PREFABRICATED SWING JOINT         4         LATERAL TEE OR ELL         5         4			PLANT TO BE IRRIGATED SEE IRRIGATION PLANS SAUCER 2-180' APART PLANTING SAUCER, CONTINUOUS FINISH GRADE EACH BUBBLER INDIVIDUALLY TED INTO FLEX PIPE UNDISTURBEDISTABILIZED SOIL UNDISTURBEDISTABILIZED SOIL K FLEX PIPE	ittals: 1/2022 - 100% CD'S FOR REVIEW 5/2022 - BID DOCUMENTS 5/2022 - BID SET
			<ol> <li>BUBBLERS SHALL BE PLACED ON THE OPHILL SIDE OF ANY SLOPES &amp; ON THE OPPOSING SIDES OF EACH ROOTBALL WITHIN THE SAUCER</li> <li>BUBBLERS TO BE INSTALLED ADJACENT TO ROOTBALL PERIMETER, DO NOT INSTALL BUBBLER ON TOP OF ROOTBALL OR NEXT TO TRUNK</li> <li>REFER TO PLANS FOR BUBBLER FLOW VOLUME AND BUBBLER QUANTITIES</li> </ol>	AND 10 8/ 30
) 125 BALL FIELD ROTOR HEAD SCALE: N.T.S.		(	2 BUBBLER APPLICATION SCALE: N.T.S.	OF GAINESVILLE DREST PARK WSPP ON LEGEND, NOTES DETAILS
SCH. 80 NIPPLE TO	FIRST FITTING		WIRING TO CONTROLLER; PROVIDE EXPANSION COILS VALVE BOX MOUNTED AT GRADE; USE EXTENSION IF NECESSARY ZONE VALVE 1 CF. GRAVEL SUMP AND BASE TAPE OPEN AREAS AS NECESSARY TO PREVENT SILTATION. PIPING TO ZONE	TECHNICIAN: JMS DESIGNER: JMS DESIGNER: JMS PROJECT: JMS PROJECT: FROJECT: CT CT CT 21-0219
		IED GRADF		
(3) ZONE SCALE: N	<u>: VALVE INSTALLAT</u> .t.s.	UN DI		

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![](_page_50_Picture_39.jpeg)

		6
	XXX	W
1 FINISH GRADE	1	
2 4" ROTOR HEAD		
3 1" PREFABRICATED SWING	S JOINT	
4 LATERAL TEE OR ELL	2-	
5 LATERAL PIPE		
6 RUBBER COVER		
	(3)	
5 4		

(1)

![](_page_50_Picture_42.jpeg)

![](_page_50_Picture_43.jpeg)

Call <u>811</u> two business days before digging

![](_page_50_Picture_49.jpeg)

![](_page_51_Picture_0.jpeg)

![](_page_52_Figure_0.jpeg)

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				1"=2" VERIFY VERIFY IS ONE IS ONE IS ONE OT ONE
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![](_page_53_Figure_0.jpeg)

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![](_page_55_Figure_1.jpeg)

![](_page_56_Figure_0.jpeg)

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![](_page_58_Picture_2.jpeg)