

PRELIMINARY/FINAL DEVELOPMENT PLANS

FOR:

FOREST PARK WSPP GAINESVILLE, FLORIDA

SECTION 10, TOWNSHIP 10 SOUTH, RANGE 19 EAST

SUBMITTED TO:
CITY OF GAINESVILLE
GAINESVILLE REGIONAL UTILITIES
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

OWNER/DEVELOPER

CITY OF GAINESVILLE
WILD SPACES & PUBLIC PLACES
PO BOX 490 - STATION 24
GAINESVILLE, FL 32627

CIVIL ENGINEER

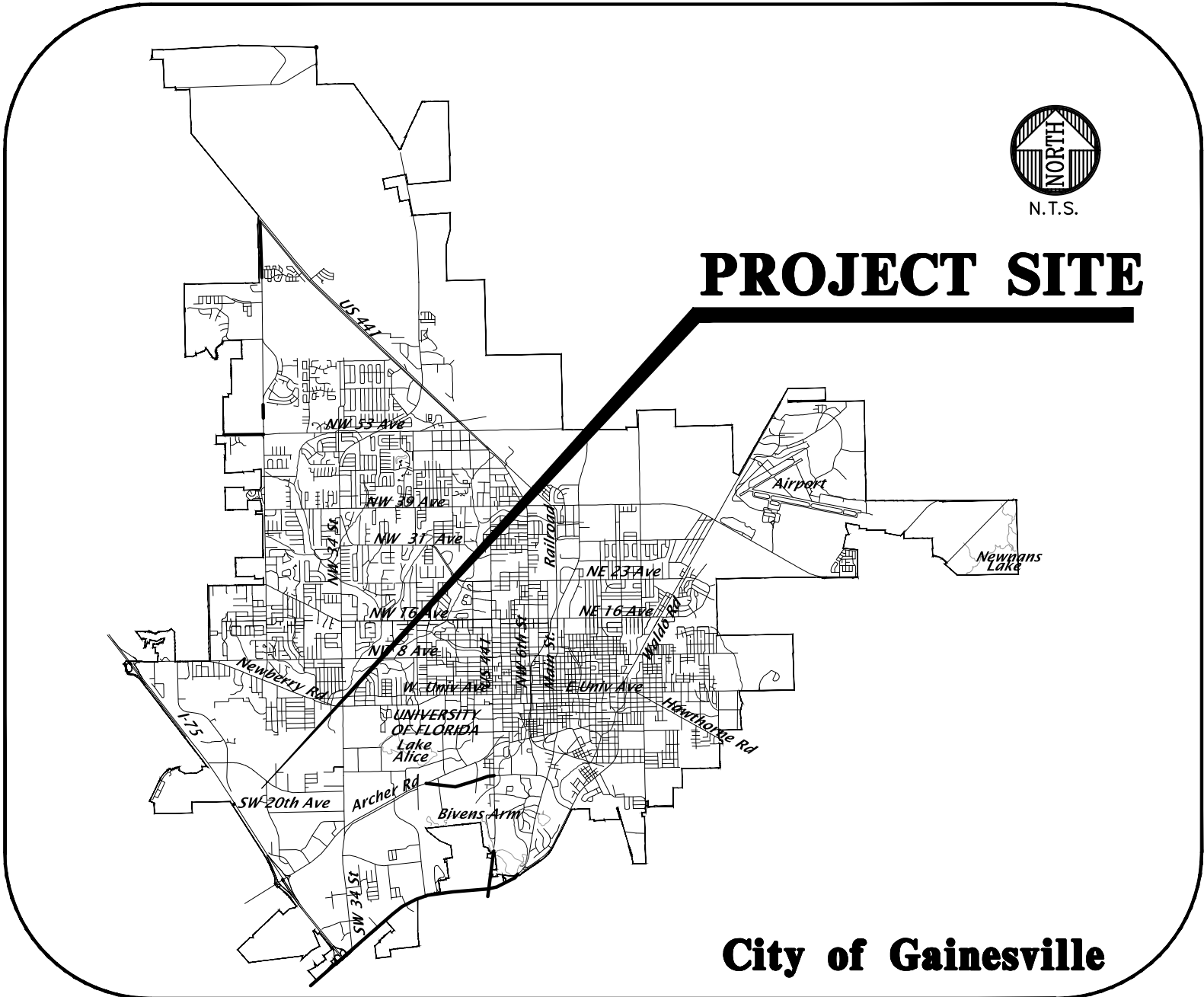
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PHOTOMETRIC CONSULTANT

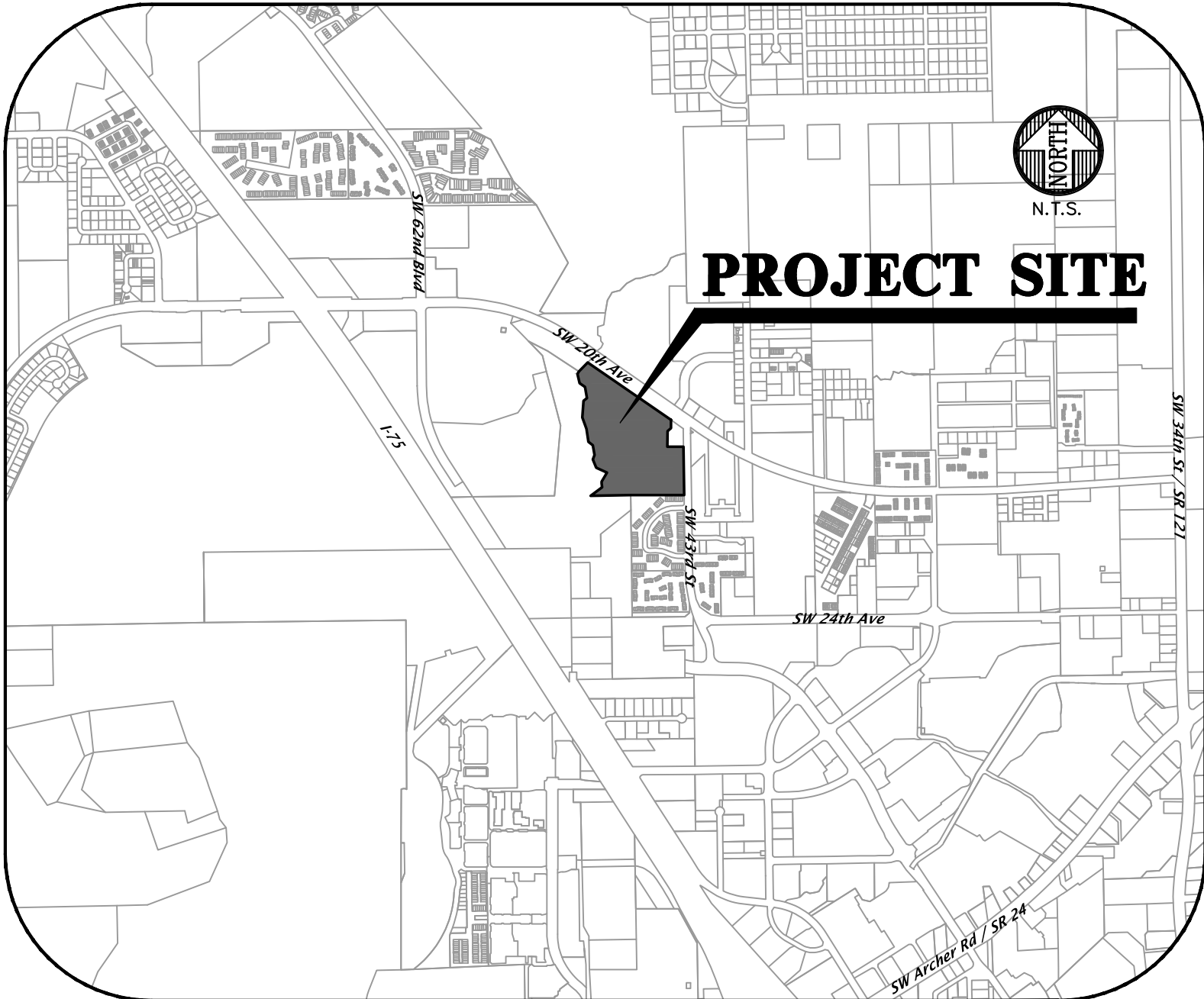
WILLIAM T. STORMANT, P.E.
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ALACHUA, FL 32615
(352) 665-1426
stormant@cox.net

LANDSCAPE ARCHITECT

CHW
11801 RESEARCH DRIVE
ALACHUA, FLORIDA 32615
(352) 331-1976



VICINITY MAP



LOCATION MAP

GENERAL NOTES

1. DEVELOPMENT DATA:	PROPOSED DEVELOPMENT			
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%		
OPEN AREA=	978,307 S.F.	92.5%		

DESCRIPTION: THE PROJECT PROPOSES TO IMPROVE THE PRESENT CONDITIONS OF THE RECREATIONAL PARK FOR BETTER FIELD USAGE WHILE ALSO PROVIDING ADDITIONAL FILING AND PARKING LOT LIGHTING AND OTHER ENHANCEMENTS.

2. SITE ZONING: PUBLIC SERVICES AND OPERATIONS - (PS)

LAND USE:
RECREATION
BUFFERS:
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

4. UTILITIES:

ALL UTILITY SERVICES SHALL BE INSTALLED BELOW GRADE PER LDC SECTION 30-345.

WATER: - WATER SERVICE WILL BE OBTAINED FROM AN EXISTING CONNECTION ON SW 43RD STREET

WASTEWATER: - NO WASTEWATER CONNECTION PROPOSED

ELECTRIC: - ELECTRICAL SERVICE WILL BE OBTAINED FROM PROPOSED ON-SITE TRANSFORMERS.

GAS: - N/A

5. STORMWATER MANAGEMENT UTILITY DATA:

TOTAL IMPERVIOUS AREA (EXISTING) = 78,894 S.F.
TOTAL SEMI-IMPERVIOUS AREA = 19,435 S.F.

Basin ID	Lowest Discharge Elevation (ft)	Retention Vol. Below Lowest Discharge El. (cf)	Retention Area at Lowest Discharge El. (sf)
N/A	N/A	N/A	N/A

THE PROJECT MUST COMPLY WITH ALL NPDES CRITERIA BOTH DURING AND AFTER CONSTRUCTION.

6. REFUSE COLLECTION: ON-SITE TRASH CANS AVAILABLE.

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 SHEETS P1 THROUGH P4 AND SHEET 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, INCLUDING NFPA 241, THE FIRE SAFETY PROGRAM SHALL INCLUDE AN EMERGENCY RESPONSE 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. [GAINESVILLE FIRE PREVENTION AND PROTECTION CODE SECTION 10-9 (NFPA 1-16)].

IN-BUILDING PUBLIC SAFETY RADIO ENHANCEMENT SYSTEMS SHALL BE PROVIDED IN ALL BUILDINGS WHERE 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.

12. THERE ARE NO KNOWN SPECIAL FIRE PROTECTION CONCERNS.

13. THE SITE IS NOT IN THE HISTORICAL PRESERVATION DISTRICT.

14. THE SITE IS NOT IN A FLOOD PLAIN DISTRICT.

15. THE SITE IS AFFECTED BY WETLANDS REGULATIONS.

16. THE SITE IS NOT LOCATED ON A NATURE PARK, GREENWAY, OR GATEWAY DISTRICT.

18. THE SITE IS NOT LOCATED WITHIN THE WELLFIELDS PROTECTION DISTRICT.

19. THE SITE COMPLIES WITH THE MOST CURRENT FLORIDA BUILDING CODE, AND ALL RELATED CODES AND FLORIDA HANDICAPPED ACCESSIBILITY CODES AND STANDARDS INCLUDING THE FOLLOWING:
FLORIDA BUILDING CODE - BUILDING - 7TH EDITION (2020)
FLORIDA BUILDING CODE - EXISTING BUILDING - 7TH EDITION (2020)
FLORIDA BUILDING CODE - RESIDENTIAL - 7TH EDITION (2020)
FLORIDA BUILDING CODE - PLUMBING - 7TH EDITION (2020)
FLORIDA BUILDING CODE - FUEL GAS - 7TH EDITION (2020)
FLORIDA BUILDING CODE - MECHANICAL - 7TH EDITION (2020)
FLORIDA BUILDING CODE - ENERGY CONSERVATION - 7TH EDITION (2020)
FLORIDA BUILDING CODE - ACCESSIBILITY - 7TH EDITION (2020)
NATIONAL ELECTRICAL CODE 2017 EDITION
NFPA 70-17
FLORIDA FIRE PREVENTION CODE, 7TH EDITION.

20. TRAFFIC STATEMENT:

THE PROJECT TRAFFIC GENERATION IS CALCULATED FROM TRIP GENERATION RATES PUBLISHED IN THE INSTITUTE OF TRANSPORTATION ENGINEERS (ITE) TRIP GENERATION, AN INFORMATIONAL REPORT, 9TH EDITION.

PROPOSED LAND USE	QUANTITY	ADT	AM PEAK HR	PM PEAK HR
PUBLIC PARK (411)	24	104	1	24
TOTAL		104	1	24

THE DEVELOPMENT IS LOCATED IN ZONE M OF THE TRANSPORTATION MOBILITY PROGRAM AREA (TMPA), AND SHALL MEET ALL RELEVANT TRANSPORTATION MOBILITY ELEMENT POLICIES. A FEE IN LIEU OF MODIFICATIONS WILL BE MADE TO THE CITY TO SATISFY APPLICABLE TMPA ZONE M CRITERIA.

21. PARCEL INFORMATION:

TAX PARCEL # 06680-002-001

22. BUILDING OCCUPANCY CLASS: N/A

23. BUILDING CONSTRUCTION TYPE: N/A

24. BUILDING AREA TABULATION:
BUILDING: FBC N/A GFA(LDC) N/A

25. BUILDING HEIGHT: N/A

26. PROPOSED USE:
THE ON-SITE BUILDING WILL BE A RECREATIONAL PARK

SHEET INDEX

SHEET NUMBER	DESCRIPTION
C0.00	COVER SHEET AND INDEX
C0.10	GENERAL NOTES
C0.11	LEGEND
1 - 4 OF 4	TOPOGRAPHIC SURVEY
C0.20	STORMWATER POLLUTION PREVENTION NOTES
C0.21 - C0.22	STORMWATER POLLUTION PREVENTION PLAN
C0.30	DEMOLITION AND TREE PROTECTION PLAN
C1.00	MASTER SITE PLAN
C1.10 - C1.11	DETAILED HORIZONTAL CONTROL PLAN
C2.00	MASTER GRADING, DRAINAGE, AND UTILITY PLAN
C2.10 - C2.11	DETAILED GRADING, DRAINAGE, AND UTILITY PLAN
C2.30	CONSTRUCTION DETAILS
LS-1 - LS-10	LANDSCAPE PLANS
P-1 - P-6	ELECTRIC PLANS AND PARKING LOT LIGHTING AND PHOTOMETRIC PLANS
LD21304B	FIELD LIGHTING AND PHOTOMETRIC PLANS

FOR REVIEW ONLY GRU CERTIFICATION

THE WATER & WASTEWATER SYSTEM
DESIGN IS IN ACCORDANCE WITH
CURRENT GRU DESIGN STANDARDS.

TRAVIS J. HASTAY
FL PE No. 48295

DATE: _____

GRU NOTIFICATIONS

1. NOTIFY GRU WASTEWATER ENGINEERING 48 HOURS PRIOR TO CONSTRUCTION AT 352-393-1633; IF PROPER NOTIFICATION IS NOT MADE, CONTRACTOR IS SUBJECT TO STOP WORK ORDER.

2. NOTIFY GRU ELECTRIC INSPECTIONS 48 HOURS PRIOR TO CONSTRUCTION AT 352-339-0430; IF PROPER NOTIFICATION IS NOT MADE, CONTRACTOR IS SUBJECT TO BE SHUT DOWN.

BEFORE YOU DIG !
CALL SUNSHINE STATE ONE CALL OF FLORIDA
AT LEAST TWO FULL BUSINESS DAYS BEFORE
DIGGING OR DISTURBING EARTH



Know what's below.
Call before you dig.

1-800-432-4770

11801 Research Drive
Alachua, Florida 32615
(352) 331-1976
www.chw-inc.com
est. 1988 FLORIDA
CA-5075

CHW
Professional Consultants

SCALE
N/A
VERIFY SCALE
ON ORIGINAL DRAWING
0" = 1' NOT FOR CONSTRUCTION
THIS SHEET ADJUST
SCALES ACCORDINGLY.

CONSTRUCTION REVISIONS

DATE: 12/06/2021
SUBMITTAL TO CITY OF GAINESVILLE, GRU, AND SRWMD
3/11/2022 - RESUBMITTAL TO CITY OF GAINESVILLE, GRU, AND SRWMD
5/18/2022 - DRAFT 1.00N DOCUMENTS

CITY OF GAINESVILLE

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	GENERAL NOTES			DEMOLITION GENERAL NOTES			GRU UTILITY NOTES					
	<div>1. THE TOPOGRAPHIC AND EXISTING INFORMATION SHOWN HEREON WERE TAKEN FROM A BOUNDARY AND TOPOGRAPHIC SURVEY PREPARED BY CHW, AND DATED JUNE 9, 2021.</div> <div>2. THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THE PLANS HAS BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE. THE ENGINEER 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 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.</div> <div>3. 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 CONSTRUCTION BY CALLING THE FLORIDA SUNSHINE STATE ONE-CALL CENTER, INC. AT 1-800-432-4770 OR 811. IT IS THE CONTRACTOR'S 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.</div> <div>4. 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.</div> <div>5. 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.</div> <div>6. 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.</div> <div>7. ALL WORK PERFORMED SHALL COMPLY WITH THE REGULATIONS AND ORDINANCES OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK INCLUDING LANDSCAPING.</div> <div>8. 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.</div> <div>9. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH AND ENFORCE ALL APPLICABLE SAFETY REGULATIONS.</div> <div>10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND SHALL PROVIDE BRACING, SHEETING OR SHORING 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.</div> <div>11. CONTRACTOR TO REVIEW GEOTECHNICAL REPORT AND BORINGS PRIOR TO BIDDING THE PROJECT AND FOLLOW OUTLINED CONSTRUCTION TECHNIQUES.</div> <div>12. 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 LABORATORY AND/OR SOILS ENGINEER MUST SUBMIT TO THE OWNER'S ENGINEER CERTIFICATIONS STATING THAT ALL REQUIREMENTS HAVE BEEN MET.</div> <div>13. 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 COMPLETED WITHIN 24 HOURS.</div> <div>14. THE CONTRACTOR SHALL CALL THE NATURE OPERATIONS DIVISION AT (352) 393-8171 FOR A TREE BARRICADE INSPECTION PRIOR TO BEGINNING ANY CONSTRUCTION.</div> <div>15. THE CONTRACTOR IS TO PREPARE THE SITE PRIOR TO BEGINNING ACTUAL CONSTRUCTION IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.</div> <div>16. 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.</div> <div>17. 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.</div> <div>18. 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.</div> <div>19. ALL PAVEMENT DIMENSIONS SHOWN ARE TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.</div> <div>20. THE GOVERNING STANDARDS AND SPECIFICATIONS, UNLESS STATED OTHERWISE SHALL BE PER FLORIDA DEPARTMENT OF TRANSPORTATION 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.</div> <div>21. ALL NEW TRAFFIC CONTROL DEVICES (SIGNS AND PAVEMENT MARKINGS) SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND FDOT STANDARDS.</div> <div>22. 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.</div> <div>23. 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.</div> <div>24. ALL HANDICAP RAMPS SHALL COMPLY WITH THE FLORIDA ACCESSIBILITY CODE AND AMERICANS WITH DISABILITIES ACT.</div> <div>25. A PRE-CONSTRUCTION CONFERENCE MAY BE REQUIRED. THE CONTRACTOR, ENGINEER OF RECORD, AND THE OWNER SHALL MEET WITH THE CITY OF GAINESVILLE PUBLIC WORKS DEPARTMENT PRIOR TO INITIATION OF SITE CONSTRUCTION IF REQUIRED.</div> <div>26. ANY CHANGE ORDER REQUESTS, SITE REVISIONS, AND PAY REQUESTS MUST BE SUBMITTED TO AND APPROVED BY THE ENGINEER OF RECORD.</div> <div>27. 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.</div> <div>28. 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 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.).</div> <div>29. 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.</div>			<div>1. CALL THE BUILDING DEPARTMENT AT (352)334-5050 FOR A DEMOLITION INSPECTION PRIOR TO ANY DEMOLITION ACTIVITIES.</div> <div>2. THE CONTRACTOR SHALL BE RESPONSIBLE TO DISPOSE OF ALL DEMOLITION MATERIALS IN A SAFE AND LAWFUL MANNER. THE CONTRACTOR SHALL SALVAGE TO THE OWNER ANY ITEM AS DETERMINED BY THE OWNER. ONCE DEMOLISHED, MATERIAL SHALL BE DISPOSED OF PROPERLY AND IMMEDIATELY.</div> <div>3. REMOVE ALL IMPROVEMENTS DEFINED ON THE DEMOLITION PLAN. SALVAGE ITEMS TO OWNER AS DEFINED BY THE OWNER'S REPRESENTATIVE AND CONSTRUCTION DOCUMENT SPECIFICATIONS.</div> <div>4. EXISTING PAVEMENT AND SIDEWALK EDGES THAT BORDER NEW CONSTRUCTION OR DEMOLITION ARE TO BE SAW-CUT TO PROVIDE A SMOOTH TRANSITION.</div> <div>5. ALL EXISTING TREES ARE TO REMAIN UNLESS OTHERWISE NOTED.</div> <div>6. ROOTS LARGER THAN 1 INCH IN DIAMETER ON TREES TO BE PRESERVED THAT ARE ENCOUNTERED DURING CONSTRUCTION MUST BE CUT CLEANLY AND COVERED OVER WITH SOIL BY THE END OF THE WORKING DAY.</div> <div>7. ALL ASPHALT AND LIMEROCK WILL BE COMPLETELY REMOVED FROM AREAS THAT WILL BE LANDSCAPED. IN PARTICULAR, AREAS WHERE ASPHALT WILL BE REMOVED MUST HAVE THE TOP HARD SURFACE, LIMEROCK, AND COMPACTED SOIL REMOVED. REPLACEMENT SOIL SHALL BE CLEAN DEEP FILL OF PH 5.5 - 6.5. THE DEPTH OF UNCOMPACTED SOIL PRIOR TO PLANTING MUST BE AT LEAST 3 FEET TO ACCOMMODATE FUTURE TREE ROOT GROWTH. NO LIMEROCK, LARGE STONES, OR OTHER CONSTRUCTION DEBRIS CAN REMAIN IN AREAS TO BE LANDSCAPED.</div>			PAVING, GRADING, AND DRAINAGE GENERAL NOTES					
	<div>1. THE CONTRACTOR IS RESPONSIBLE FOR EROSION/SEDIMENTATION CONTROL PRACTICES DURING CONSTRUCTION TO MINIMIZE ON-SITE EROSION/SEDIMENTATION AND TO PROTECT AGAINST DAMAGE TO OFF SITE PROPERTY. THE FOLLOWING PRACTICES SHALL BE EMPLOYED:</div> <div>A. EROSION AND SEDIMENTATION CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. AREAS OF OFF-SITE DISCHARGE DURING CONSTRUCTION SHALL BE PROTECTED WITH A SEDIMENT BARRIER PER FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL TO PREVENT OFF-SITE DISCHARGE OF SEDIMENTS. A SILT BARRIER SHALL SPECIFICALLY BE REQUIRED, CONSTRUCTED, AND MAINTAINED AS INDICATED ON THIS SHEET. TEMPORARY SEED AND MULCH SHOULD BE USED TO CONTROL ON-SITE EROSION WHEN IT IS NOT PRACTICAL TO ESTABLISH PERMANENT VEGETATION. SOD SHALL BE PLACED AS EARLY AS POSSIBLE ON ALL SLOPES STEEPER THAN 5 (FT) HORIZONTAL TO 1 (FT) VERTICAL. SOD SHALL BE PINNED AS REQUIRED. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED IN WORKING ORDER THROUGHOUT THE CONSTRUCTION PHASE. THE CONTRACTOR SHALL INSPECT AND REPAIR AS NECESSARY THE EROSION/SEDIMENTATION PROTECTION AT THE END OF EACH WORKING DAY.</div> <div>NOTE: EROSION/SEDIMENTATION CONTROL SHALL BE PLACED PRIOR TO SITE EXCAVATION AND SHALL REMAIN IN PLACE UNTIL SITE VEGETATION AND LANDSCAPING IS COMPLETE.</div> <div>B. ALL INLET STRUCTURES AND PIPE SHALL BE PROTECTED FROM SILTATION BY CONSTRUCTING INLET PROTECTION AS DEFINED BY THESE PLANS OR IN THE FDOT STANDARDS. IF SILTATION OCCURS, THE CONTRACTOR IS RESPONSIBLE TO REMOVE SILTATION AS PART OF THE BASE CONTRACT AT NO ADDITIONAL COST TO THE OWNER.</div> <div>C. PERMANENT VEGETATIVE STABILIZATION SHALL BE APPLIED ON FINE GRADED SITES AS SOON AS PRACTICAL. TEMPORARY SEEDING SHOULD BE EMPLOYED TO PREVENT EXPOSURE OF BARREN SOILS UNTIL PERMANENT VEGETATION CAN BE APPLIED.</div> <div>D. ALL SLOPES 1:4 OR STEEPER REQUIRE LAPPED OR PEGGED SOD.</div> <div>E. EROSION, SEDIMENT AND TURBIDITY CONTROL ARE THE RESPONSIBILITY OF THE CONTRACTOR. THESE DELINEATED MEASURES ARE THE MINIMUM REQUIRED, WITH ADDITIONAL CONTROLS TO BE UTILIZED AS NEEDED, DEPENDENT UPON ACTUAL SITE CONDITIONS AND CONSTRUCTION OPERATION.</div> <div>F. ALL SYNTHETIC BALES, SILT FENCE, AND OTHER EROSION CONTROL MEASURES SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT.</div> <div>2. THE CONTRACTOR SHALL MAINTAIN IN HIS POSSESSION A COPY OF THE WATER MANAGEMENT DISTRICT CONSTRUCTION PERMIT. HE SHALL BE RESPONSIBLE FOR ADHERENCE TO ALL CONDITIONS CONTAINED IN THE PERMIT.</div> <div>3. PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT OR GROUND SURFACE GRADE UNLESS OTHERWISE NOTED ON DRAWINGS.</div> <div>4. CONTRACTOR SHALL SUBMIT FOR REVIEW TO THE OWNER AND OWNER'S ENGINEER SHOP DRAWINGS ON ALL PRECAST AND MANUFACTURED ITEMS TO BE USED ON THIS SITE. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT CONTRACTOR'S EXPENSE. ENGINEER'S APPROVAL OF A SHOP DRAWING DOES NOT RELIEVE THE CONTRACTOR'S RESPONSIBILITY FOR THE PERFORMANCE OF THE ITEM.</div> <div>5. THE COST OF ALL TESTING OF COMPACTION AND OTHER REQUIRED TESTS SHALL BE PAID BY THE CONTRACTOR AND MADE AVAILABLE TO THE ENGINEER OF RECORD DURING SITE INSPECTIONS.</div> <div>6. GENERAL CONTRACTOR TO CONTACT ENGINEER OF RECORD AND THE OWNER REPRESENTATIVE 48 HOURS IN ADVANCE PRIOR TO BACKFILLING TRENCHES FOR FIELD INSPECTION AND PRIOR TO LAYING ASPHALT FOR FIELD INSPECTION.</div> <div>7. CONTRACTOR IS TO SUBMIT CITY OF GAINESVILLE APPROVED ASPHALT DESIGN MIXES TO THE OWNER'S REPRESENTATIVE AND ENGINEER OF RECORD BEFORE ANY WORK IS TO COMMENCE ON PROJECT. THE MIXTURE AT THE PLANT OR ON THE ROAD SHALL NOT EXCEED 335 DEGREES. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AND PROVIDE TEMPERATURE READINGS PRIOR TO LAYING ASPHALT.</div> <div>8. AS DETERMINED NECESSARY AND DIRECTED BY CITY OF GAINESVILLE PUBLIC WORKS DEPARTMENT OR ENGINEER OF RECORD, THE CONTRACTOR SHALL UNDERCUT ALL UNSUITABLE MATERIAL 24 INCHES BELOW THE BOTTOM OF ANY PROPOSED LIMEROCK BASE, AND SHALL BACKFILL WITH FILL MATERIAL MEETING FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. SEE FDOT INDEX 120-001 AND 120-002.</div> <div>9. PROVIDE LEVEL PLATFORM IN FRONT OF ALL EGRESS DOORS. THE FLOOR SURFACE ON BOTH SIDES OF A DOOR SHALL BE AT THE SAME ELEVATION OR AS SHOWN. THE FLOOR SURFACE OR LANDING ON EACH SIDE OF THE DOOR SHALL EXTEND FROM THE DOOR IN THE CLOSED POSITION A DISTANCE EQUAL TO THE DOOR WIDTH AND SHALL COMPLY WITH SECTION 4.13.6 MANUEVERING CLEARANCES AT DOORS OF THE FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION.</div> <div>10. RAMPS SHALL HAVE LEVEL LANDINGS AT THE BOTTOM AND TOP OF EACH RAMP RUN. CURB RAMPS ARE NOT REQUIRED TO HAVE LANDINGS. LANDINGS SHALL HAVE THE FOLLOWING FEATURES:</div> <div>A. THE LANDING SHALL BE AT LEAST AS WIDE AS THE RAMP RUN LEADING TO IT.</div> <div>B. ALL LANDINGS ON RAMPS SHALL BE NOT LESS THAN 60" CLEAR, AND THE BOTTOM OF EACH RAMP SHALL HAVE NOT LESS THAN 72" OF STRAIGHT AND LEVEL CLEARANCE.</div> <div>C. IF RAMPS CHANGE DIRECTION AT LANDINGS, THE MINIMUM LANDING SIZE SHALL BE 60"x60". IF A RAMP RUN HAS A RISE GREATER THAN 6" OR A HORIZONTAL PROJECTION GREATER THAN 72" THEN IT SHALL HAVE HANDRAILS ON BOTH SIDES. HANDRAILS ARE NOT REQUIRED ON CURB RAMPS. HANDRAILS ARE SHOWN ON THE ARCHITECTURAL PLAN.</div> <div>11. THE CONTRACTOR SHALL STOCKPILE TOPSOIL AND CONSTRUCTION MATERIALS IN AREAS DESIGNATED BY THE OWNER.</div> <div>12. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING RECORD DRAWINGS AS NOTED IN NOTE #29 UNDER SITE GENERAL NOTES.</div> <div>13. ALL CONCRETE USED SHALL BE 3,000 PSI MINIMUM OR AS SHOWN.</div> <div>14. ALL WELLS, CLEANOUTS, MANHOLE TOPS, PULL BOX COVERS AND OTHER UTILITY APPURTENANCES IN THE AREA OF REDEVELOPMENT SHALL BE PROTECTED AND TOPS ADJUSTED TO MATCH PROPOSED GRADES.</div> <div>15. CONTRACTOR SHALL SAW CUT, TACK, AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS ANY EXISTING PAVEMENT.</div> <div>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.</div> <div>17. ALL STORM SEWER CURB AND DITCH BOTTOM INLETS SHALL CONFORM TO THE APPLICABLE FDOT INDEX. ALL DRAINAGE STRUCTURES WITH GRATES THAT ARE LOCATED IN GRASSED AREAS SHALL HAVE THE GRATE CHAINED TO THE STRUCTURE USING AN EYE BOLT AND CHAIN.</div> <div>18. ALL CONCRETE STRUCTURES SHALL HAVE ALL EXPOSED EDGES CHAMFERED 3/4" AND CLASS I SURFACE FINISH.</div> <div>19. ALL HDPE FITTINGS AND CONNECTORS SHALL BE WATER TIGHT. SEE SPECIFICATIONS FOR MORE INFORMATION.</div> <div>20. COMPACTION OF ALL MATERIALS SHALL BE LIMITED TO STATIC MODE ONLY, UNLESS DIRECTED OTHERWISE BY THE ENGINEER OF RECORD.</div> <div>21. ALL RCP PIPE JOINTS SHALL BE WRAPPED WITH FILTER FABRIC IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION SECTION 430.</div>			CITY OF GAINESVILLE NOTES								
	<div>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 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.</div> <div>2. A MOT PERMIT IS REQUIRED FOR ANY ACTIVITY IN THE ROW THAT EITHER DIRECTLY OR INDIRECTLY AFFECTS VEHICULAR OR PEDESTRIAN TRAFFIC.</div> <div>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 REQUIRED 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 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.</div> <div>4. NO PRIVATE INFRASTRUCTURE INCLUDING BUT NOT LIMITED TO FOOTERS, BEAMS, PADS, STRUCTURAL COMPONENTS, CONDUITS, PIPING, WIRING OR SIMILAR WILL BE PERMITTED WITHIN THE ROW. PRIOR TO ANY PLACEMENT OF SUCH COMPONENTS THE ROW WILL BE REQUIRED TO BE STAKED BY A SURVEYOR LICENSED IN THE STATE OF 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 A 'GUINERMITTEDA'S 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.</div> <div>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 REQUEST. 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</div> <div>6. IF ANY DEWATERING WILL NEED TO LEAVE THE SITE AT ANY TIME MUST BE APPROVED BY PW PRIOR TO STARTING</div> <div>7. ALL CONCRETE POURED IN THE CITY ROW MUST BE AN FDOT APPROVED 3000 PSI MIX. ALL CONCRETE MIX DESIGNS WILL BE SUBMITTED TO PW PRIOR TO PLACEMENT FOR REVIEW.</div>			CONSTRUCTION ORDER INFORMATION								
	SUMMITRALS 12/06/2021 - FIRST SUBMITTAL TO CITY OF GAINESVILLE, GRU, AND SJRWMD 3/11/2022 - RESUBMITTAL TO CITY OF GAINESVILLE, GRU, AND SJRWMD 3/15/2022 - DRAFT LOG BOOK SUBMITTALS			CITY OF GAINESVILLE			CONSTRUCTION ORDER INFORMATION					
	K MERRITT DESIGNER			C THORNTON QUANTITY CONTROL			T HASTAY PROJECT NUMBER					
	FL PE No. 84295			CITY OF GAINESVILLE			FOREST PARK WSP#					
	21-0219			GENERAL NOTES			GENERAL NOTES					
	TRAVIS J. HASTAY											
	SHEET NO.			FL PE No. 84295			C0.10					

SYMBOLS		N	
•	FEET (WHEN USED WITH LENGTHS)	N	NORTH
°	DEGREES	N/E	NORTHING - EASTING
'	MINUTES (WHEN USED WITH ANGLES)	N/A	NOT APPLICABLE
"	SECONDS	NAVD	NORTH AMERICAN VERTICAL DATUM OF 1988
%	PERCENT	NGVD	NATIONAL GEODETIC VERTICAL DATUM OF 1929
@	AT	NO	NUMBER
A		NPDES	NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
AASHTO	ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	NTS	NOT TO SCALE
AC	ACRES	O	
ADA	AMERICAN WITH DISABILITIES ACT	OC	ON CENTER
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	OHW	OVERHEAD WIRE
ARCH	ARCHITECT	ORB	OFFICIAL RECORDS BOOK
ARV	AIR RELEASE VALVE	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	P	
AWWA	AMERICAN WATER WORKS ASSOCIATION	PAVT	PAVEMENT
B		PC	POINT OF CURVATURE
BC	BACK OF CURB	PCC	POINT OF COMPOUND CURVE
BFP	BACKFLOW PREVENTER	PE	POLYETHYLENE
BLDG	BUILDING	PERF	PERFORATED
BM	BENCHMARK	PROP	PROPOSED
BMP	BEST MANAGEMENT PRACTICE	PT	POINT OF TANGENCY
BOC	BACK OF CURB	PVC	POLYVINYL CHLORIDE
BVCS	BEGIN VERTICAL CURVE STATION	PUE	PUBLIC UTILITY EASEMENT
BVCE	BEGIN VERTICAL CURVE ELEVATION	PVI	POINT OF VERTICAL INTERSECTION
BW	BOTTOM OF WALL	R	
BSL	BUILDING SETBACK LINE	R	RADIUS
C		RCP	REINFORCED CONCRETE PIPE
CATV	CABLE TELEVISION	RPM	RAISED REFLECTIVE PAVEMENT MARKER
CI	CURB INLET	RPZ	REDUCED PRESSURE ZONE
CIP	CAST IRON PIPE	RT	RIGHT
CLDIP	CEMENT LINE DUCTILE IRON PIPE	RWM	RECLAIMED WATER MAIN
CMP	CORRUGATED METAL PIPE	R/W	RIGHT-OF-WAY
CNC	CLEANOUT	S	
CONC	CONCRETE	S	SOUTH
COORD	COORDINATE	SAN	SANITARY
CR	COUNTY ROAD	SHWE	SEASONAL HIGH WATER ELEVATION
C/O	CLEANOUT	SF	SILT FENCE
D		SL	SLOPE
DBH	DIAMETER AT BREAST HEIGHT	SP	SUPERPAVE
DE	DRAINAGE EASEMENT	SR	STATE ROAD
DEG	DEGREE	SS	SANITARY SEWER
DIA	DIAMETER	ST	STORM
DIP	DUCTILE IRON PIPE	STA	STATION
DWG	DRAWING	STD	STANDARD
E		T	
ε	RATE OF ELEVATION	TB	TREE BARRICADE
E	EAST	TCE	TEMPORARY CONSTRUCTION EASEMENT
EA	EACH	TEMP	TEMPORARY
EL	ELEVATION	TOB	TOP OF BANK
ELEV	ELEVATION	TV	TELEVISION
EOP	EDGE OF PAVEMENT	TW	TOP OF WALL
EOR	ENGINEER OF RECORD	TYP	TYPICAL
ERCP	ELLIPTICAL REINFORCED CONCRETE PIPE	U	
ESMT	EASEMENT	USF	UNITED STATES FOUNDRY
EVCS	END VERTICAL CURVE STATION	USGS	UNITED STATES GEOLOGICAL SURVEY
EVCE	END VERTICAL CURVE ELEVATION	UTLE	UTILITY
EX	EXISTING	V	
F		V	VERTICAL
FAC	FLORIDA ADMINISTRATIVE CODE	VC	VERTICAL CURVE
FBR	FLORIDA BEARING RATIO	VCP	VERTIFIED CLAY PIPE
FC	FRICTION COEFFICIENT	W	
FDEP	FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION	W	WEST
FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION	W	WATER
FFE	FINISHED FLOOR ELEVATION	W	WITH
FI	FIRE HYDRANT	W/W	WATER MAIN
FIHWA	FLORIDA HIGHWAY ADMINISTRATION	WW	WASTEWATER
FIG	FIGURE	WWF	WELDED WIRE FABRIC
FM	FORCE MAIN	G	
FOC	FACE OF CURB	GALV	GALVANIZED
FS	FLORIDA STATUTES	GM	GAS MAIN
FT	FEET	GV	GATE VALVE
H		H	
HDPE	HIGH DENSITY POLYETHYLENE	H	
HP	HIGH POINT	I	
I		ID	IDENTIFICATION
ID	IDENTIFICATION	INV	INVERT
INV	INVERT	INV EL	INVERT ELEVATION
INV EL	INVERT ELEVATION	IP	IRON PIPE
IP	IRON PIPE	K	
K	VERTICAL CURVE RATE OF CHANGE	L	
L		L	LENGTH
L	LENGTH	LA	LANDSCAPE ARCHITECT
LA	LANDSCAPE ARCHITECT	LBR	LIMEROCK BEARING RATIO
LBR	LIMEROCK BEARING RATIO	LDR	LAND DEVELOPMENT REGULATION
LDR	LAND DEVELOPMENT REGULATION	LF	LINEAR FEET
LF	LINEAR FEET	LP	LOW POINT
LP	LOW POINT	LT	LEFT
LT	LEFT	M	
M		MAX	MAXIMUM
MAX	MAXIMUM	ME	MATCH EXISTING
ME	MATCH EXISTING	MH	MANHOLE
MH	MANHOLE	MIN	MINIMUM
MIN	MINIMUM	MISC	MISCELLANEOUS
MISC	MISCELLANEOUS	MJ	MECHANICAL JOINT
MJ	MECHANICAL JOINT	MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES		

SIGNS ARE PER FDOT SPECIFICATIONS OR PER MUTCD. SIGN POSTS AND INSTALLATION SHALL BE PER FDOT INDEX NO. 700-010. SIGN PLACEMENT SHALL BE PER FDOT INDEX NO. 700-101.

 **FTP-20-06 (12" X 18") PER FDOT INDEX NO. 700-102**

 **R1-1 "STOP" - SEE PLANS FOR SIZE**

	EX. PROPERTY LINE
	LANDSCAPE BUFFER LINE
	BUILDING SETBACK LINE
	WETLAND LIMIT'S LINE
	WETLAND SETBACK LINE
	CENTER LINE
	EASEMENT LINE
	RIGHT-OF-WAY LINE
	SILT FENCE LINE
	TREE BARICADE LINE
	EX. STRUCTURE OR BUILDING
	PROPOSED BUILDING
	PROPOSED ASPHALTIC PAVEMENT
	PROPOSED CONCRETE PAVEMENT
	PROPOSED DETECTABLE WARNING SURFACE
	DIRECTIONAL TRAFFIC ARROW PER FDOT INDEX NO. 17346
	WATERSHED DIVIDE
	EX. ELEVATION CONTOUR
	PROPOSED CONTOUR
	EX. SPOT ELEVATION
	PROPOSED SPOT ELEVATION
	DIRECTION OF SURFACE DRAINAGE FLOW
	PROPOSED SWALE LINE
	EX. FENCE
	PROPOSED FENCE
	EX. TREE (SIZE & TYPE)
	EX. TREE (TREE ID)
	EX. TREE TO BE REMOVED (SIZE & TYPE)
	EX. TREE TO BE REMOVED (TREE ID)
	PROJECT BENCHMARK

THE PROPOSED STORMWATER STRUCTURES DEPICTED BELOW ARE DRAWN PER FDOT SPECIFICATIONS AND TO SCALE WHEN SHOWN ON THE PLAN SHEETS.

ST ST EX. GRAVITY STORMWATER MAIN

— P—ST

PROPOSED GRAVITY STORMWATER MAIN (PIPE LENGTHS ARE FROM N-E LOCATION OF A STRUCTURE TO N-E LOCATION OF A STRUCTURE)

EX. STORMWATER MANHOLE

PROPOSED 48" DIA. STORMWATER MANHOLE PER FDOT INDEX NO. 425-001 AND 425-010

PROPOSED CIRCULAR AREA DRAIN

PROPOSED SQUARE AREA DRAIN

PROPOSED TYPE 1 CURB INLET TOP PER FDOT INDEX NO. 425-020 (SEE PLANS FOR BOTTOM SPECIFICATION)

PROPOSED TYPE 2 CURB INLET TOP PER FDOT INDEX NO. 425-020 (SEE PLANS FOR BOTTOM SPECIFICATION)

PROPOSED TYPE 3 CURB INLET TOP PER FDOT INDEX NO. 425-020 (SEE PLANS FOR BOTTOM SPECIFICATION)

PROPOSED TYPE 4 CURB INLET TOP PER FDOT INDEX NO. 425-020 (SEE PLANS FOR BOTTOM SPECIFICATION)

PROPOSED TYPE 5 CURB INLET TOP PER FDOT INDEX NO. 425-021 (SEE PLANS FOR BOTTOM SPECIFICATION)

PROPOSED TYPE 6 CURB INLET TOP PER FDOT INDEX NO. 425-021 (SEE PLANS FOR BOTTOM SPECIFICATION)

PROPOSED TYPE 9 CURB INLET TOP PER FDOT INDEX NO. 425-024 (SEE PLANS FOR BOTTOM SPECIFICATION)

PROPOSED TYPE 'C' DITCH BOTTOM INLET TOP PER FDOT INDEX NO. 425-052 (SEE PLANS FOR GRATE MATERIAL AND BOTTOM SPECIFICATION)

PROPOSED TYPE 'D' DITCH BOTTOM INLET TOP PER FDOT INDEX NO. 425-052 (SEE PLANS FOR GRATE MATERIAL AND BOTTOM SPECIFICATION)

PROPOSED TYPE 'E' DITCH BOTTOM INLET TOP PER FDOT INDEX NO. 425-052 (SEE PLANS FOR GRATE MATERIAL AND BOTTOM SPECIFICATION)

PROPOSED TYPE 'F' DITCH BOTTOM INLET TOP WITH STEEL GRATE PER FDOT INDEX NO. 425-053 (SEE PLANS FOR BOTTOM SPECIFICATION)

PROPOSED TYPE 'G' DITCH BOTTOM INLET TOP WITH STEEL GRATE PER FDOT INDEX NO. 425-053 (SEE PLANS FOR BOTTOM SPECIFICATION)

PROPOSED TYPE 'H' DITCH BOTTOM INLET TOP PER FDOT INDEX NO. 425-052 (SEE PLANS FOR GRATE MATERIAL AND BOTTOM SPECIFICATION)

PROPOSED TYPE 'J' DITCH BOTTOM INLET TOP WITH STEEL GRATE PER FDOT INDEX NO. 425-054 (SEE PLANS FOR BOTTOM SPECIFICATION)

PROPOSED U-TYPE CONCRETE ENDWALLS WITH GRATES PER FDOT INDEX NO. 430-010 (SEE PLANS FOR SIZE)

PROPOSED FLARED END SECTION PER FDOT INDEX NO. 430-020 (SEE PLANS FOR SIZE)

PROPOSED CROSS DRAIN MITERED END SECTION PER FDOT INDEX NO. 430-021 (SEE PLANS FOR SIZE)

PROPOSED SIDE DRAIN MITERED END SECTION PER FDOT INDEX NO. 430-022 (SEE PLANS FOR SIZE)

S-10 PROPOSED STORMWATER STRUCTURE ID TAG

	W	EX. POTABLE WATER MAIN
	P-W	PROPOSED POTABLE WATER MAIN
	RCW	EX. RECLAIMED WATER MAIN
	P-RCW	PROPOSED RECLAIMED WATER MAIN
	11.25° BEND W/ MECHANICALLY RESTRAINED JOINTS (POTABLE & RCW)	
	22.5° BEND W/ MECHANICALLY RESTRAINED JOINTS (POTABLE AND RCW)	
	45° BEND W/ MECHANICALLY RESTRAINED JOINTS (POTABLE AND RCW)	
	90° BEND W/ MECHANICALLY RESTRAINED JOINTS (POTABLE AND RCW)	
	TEE (POTABLE AND RCW)	
	CROSS (POTABLE AND RCW)	
	BLOWOFF ASSEMBLY (POTABLE AND RCW)	
	REDUCER (POTABLE AND RCW)	
	EX. GATE VALVE AND BOX (POTABLE AND RCW)	
	PROPOSED GATE VALVE AND BOX (POTABLE AND RCW)	
	AIR RELEASE VALVE (POTABLE AND RCW)	
	PROPOSED AIR RELEASE VALVE (POTABLE AND RCW)	
	EX. FIRE HYDRANT ASSEMBLY	
	PROPOSED FIRE HYDRANT ASSEMBLY	
	PROPOSED SAMPLE POINT	
	EX. WATER METER (POTABLE AND RCW)	
	PROPOSED POTABLE WATER METER	
	PROPOSED POTABLE WATER BACK FLOW PREVENTER	
	PROPOSED RECLAIMED WATER METER	
	EX. WATER WELL	
	EX. HOSE BIB (POTABLE AND RECLAIMED)	
	PROPOSED HOSE BIB (POTABLE AND RECLAIMED)	
	FITTING ID TAG (POTABLE AND RECLAIMED)	


EX. GRAVITY WASTEWATER MAIN


PROPOSED GRAVITY WASTEWATER MAIN (PIPE LENGTHS ARE FROM N-LOCATION OF A STRUCTURE TO N-LOCATION OF A STRUCTURE)


EX. WASTEWATER FORCE MAIN


PROPOSED WASTEWATER FORCE MAIN


EX. WASTEWATER MANHOLE


PROPOSED WASTEWATER MANHOLE


EX. WASTEWATER CLEANOUT


PROPOSED WASTEWATER CLEANOUT


EX. WASTEWATER GREASE TRAP


PROPOSED WASTEWATER GREASE TRAP


PROPOSED WASTEWATER MANHOLE ID


11.25' BEND W/ MECHANICALLY RESTRAINED JOINTS (WW FORCE MAIN)


22.5' BEND W/ MECHANICALLY RESTRAINED JOINTS (WW FORCE MAIN)


45' BEND W/ MECHANICALLY RESTRAINED JOINTS (WW FORCE MAIN)


90' BEND W/ MECHANICALLY RESTRAINED JOINTS (WW FORCE MAIN)


WYE W/ MECHANICALLY RESTRAINED JOINTS (WW FORCE MAIN)


EX. PLUG VALVE AND BOX (WW FORCE MAIN)


PROPOSED PLUG VALVE AND BOX (WW FORCE MAIN)


EX. AIR RELEASE VALVE (WW FORCE MAIN)


PROPOSED AIR RELEASE VALVE (WW FORCE MAIN)

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.

_____ P-ATT _____	PROPOSED ATT&T LINE
_____ BC _____ BC _____	EX. BURIED CABLE LINE
_____ P-BC _____	PROPOSED BURIED CABLE LINE
_____ BTCL _____	EX. BURIED TELEPHONE LINE
_____ P-TCL _____	PROPOSED TELEPHONE LINE
_____ CATV _____	EX. CABLE TELEVISION LINE
_____ P-TV _____	PROPOSED CABLE/TELEVISION LINE
_____ FO _____ FO _____	EX. FIBER OPTIC LINE
_____ UGTEL _____	EX. UNDERGROUND TELEPHONE LINE
	 EX. TELEPHONE PEDESTAL
	 EX. TELEVISION/CABLE PEDESTAL
_____ CHW _____ CHW _____	EX. CHILLED WATER MAIN
_____ P-CHW _____	PROPOSED CHILLED WATER MAIN
_____ FIRE _____	EX. FIRE MAIN
_____ P-FIRE _____	PROPOSED FIRE MAIN
_____ IRR _____ IRR _____	EX. IRRIGATION LINE
_____ P-IRR _____	PROPOSED IRRIGATION LINE
_____ STEAM _____	EX. STEAM LINE
_____ P-STEAM _____	PROPOSED STEAM LINE
_____ P-CLAY _____	PROPOSED CLAY ELECTRIC LINE
_____ E _____ E _____	EX. ELECTRIC LINE
_____ P-E _____	PROPOSED ELECTRIC LINE
_____ EN _____ EN _____	EX. ENERGY LINE
_____ P-LIGHT _____	PROPOSED PRIVATE LIGHTING LINE
_____ OHW _____ OHW _____	EX. OVERHEAD WIRE LINE
_____ UGE _____ UGE _____	EX. UNDERGROUND ELECTRIC LINE
	☆ EX. LIGHT
	⦿ EX. UTILITY POLE
	○ EX. UTILITY POLE
	⊙ EX. WOOD POLE POLE
	→ EX. GUY ANCHOR
	 PROPOSED TRANSFORMER
_____ GAS _____ GAS _____	EX. GAS LINE
_____ P-GAS _____	PROPOSED GAS LINE
	Ⓢ EX. GAS MARKER
	Ⓢ EX. GAS MARKER

NOTES:

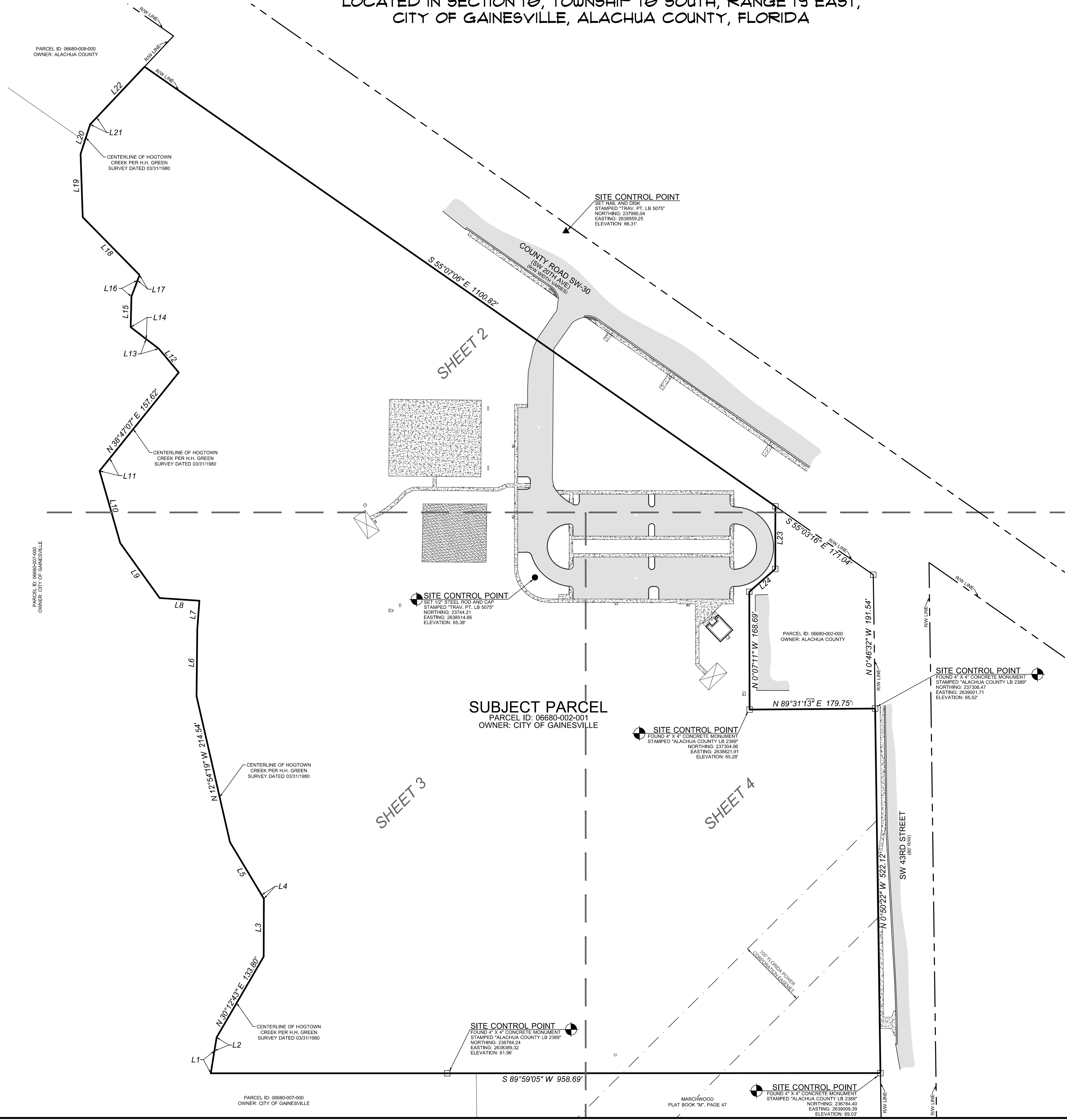
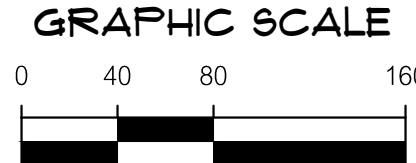
1. THIS LEGEND IS ALL INCLUSIVE AND MAY INCLUDE ITEMS NOT A PART OF THIS PLAN SET.

2. SYMBOLS SHOWN ON THIS SHEET ARE FOR ILLUSTRATIVE PURPOSES ONLY. UNLESS NOTED OTHERWISE, SYMBOLS IN THESE PLANS MAY NOT BE REPRESENTATIVE OF SIZE.

- SURVEYOR'S NOTES:
- 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.
 - BEARINGS AND COORDINATES SHOWN HEREON ARE REFERENCED TO STATE PLANE COORDINATE SYSTEM, FLORIDA NORTH (NAD83).
 - 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.
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TOPOGRAPHIC SURVEY OF FOREST PARK

LOCATED IN SECTION 10, TOWNSHIP 10 SOUTH, RANGE 19 EAST,
CITY OF GAINESVILLE, ALACHUA COUNTY, FLORIDA



LINE DATA TABLE		
LINE	DIRECTION	LENGTH
L1	N 9°14'12" E	22.87
L2	N 9°14'12" E	19.87
L3	N 0°12'24" E	82.93
L4	N 30°56'50" W	6.34
L5	N 30°56'50" W	88.01
L6	N 0°40'52" E	95.84
L7	N 4°13'43" E	41.10
L8	N 86°06'46" W	57.05
L9	N 35°39'35" W	96.79
L10	N 15°56'44" W	107.50
L11	N 38°47'07" E	23.18
L12	N 39°59'02" W	44.65
L13	N 52°36'11" W	22.58
L14	N 52°36'11" W	27.95
L15	N 1°25'20" E	43.95
L16	N 20°45'11" E	24.82
L17	N 20°45'11" E	8.94
L18	N 44°29'59" W	118.04
L19	N 1°54'18" W	90.59
L20	N 17°53'56" E	44.65
L21	N 43°18'48" E	13.51
L22	N 43°18'48" E	99.33
L23	N 0°03'55" E	89.65
L24	N 48°43'38" E	49.50

- LEGEND:
- BENCHMARK
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 - SET NAIL AND DISK STAMPED 'CHW PCP LB 5075'
 - SET 5/8" STEEL REBAR AND CAP MARKED 'CHW INC LB 5075'
 - CLEANOUT
 - METAL POWER POLE
 - ELECTRIC HANDHOLE
 - ELECTRIC METER
 - FIBER OPTIC BOX
 - GUY ANCHOR
 - BACKFLOW PREVENTOR
 - FIRE HYDRANT
 - IRRIGATION CONTROL VALVE
 - GAS METER
 - GAS VALVE
 - SIGN
 - TREE (SIZE AND TYPE AS NOTED)
 - SANITARY SEWER MANHOLE
 - WOODEN POWER POLE
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 - WATER METER
 - STORM INLET
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GRAPHIC SCALE
1" = 80'
0 40 80 160
1" = 80'
0 40 80 160
1" = 80'
0 40 80 160

SCALE
1" = 80'
0 40 80 160
1" = 80'
0 40 80 160

CITY OF GAINESVILLE

SURVEY DATE: 06/09/2021
REVISION DATE: N/A
PROJECT NUMBER: 21-0219
FIELD BOOK & PAGE: 615-1

TECHNICIAN: AARON H. HICKMAN
CREW CHIEF: JIM
CHECKED BY: AHH
FIELD BOOK & PAGE: 615-1

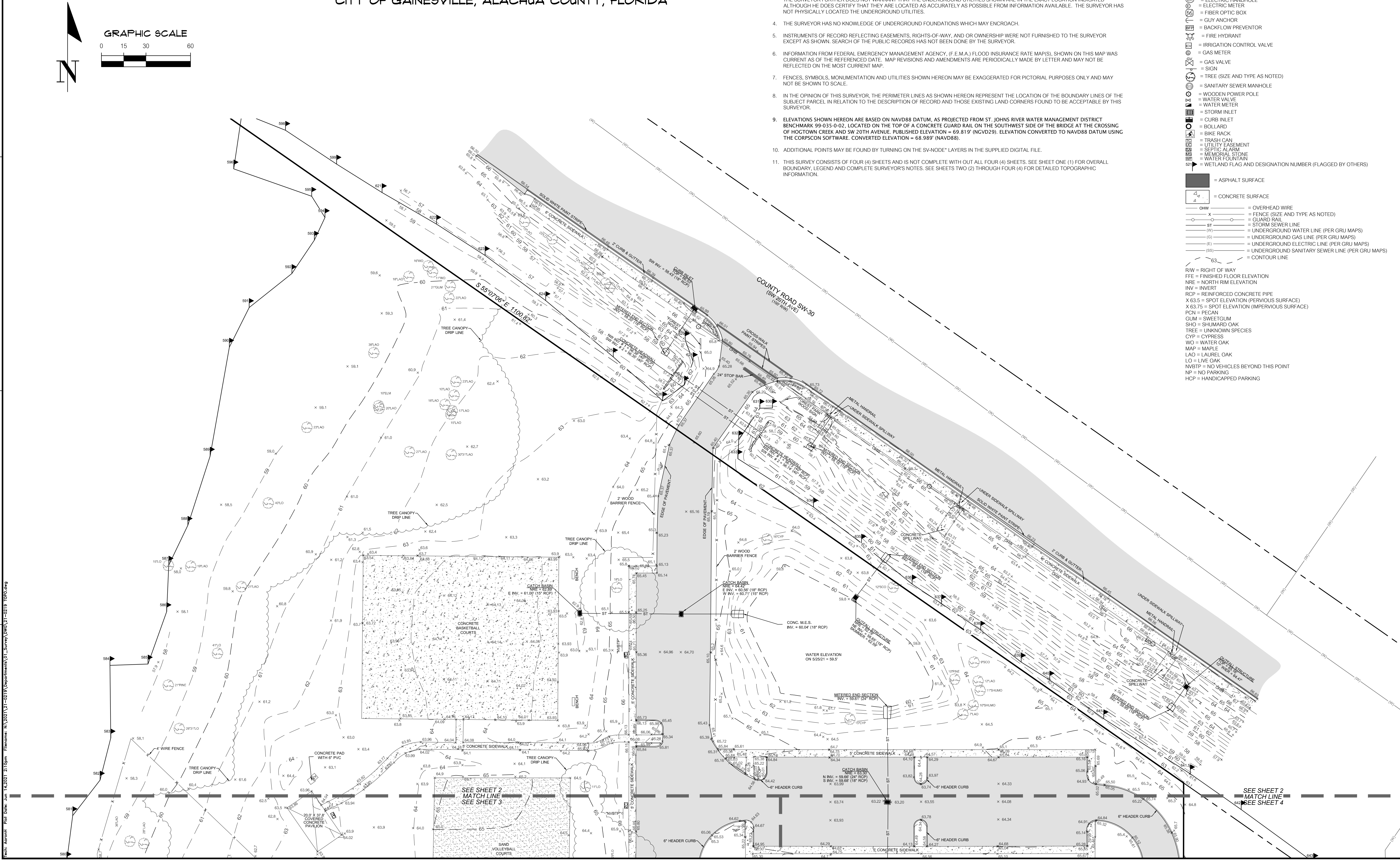
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Aaron H. Hickman
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LICENSED SURVEYOR AND MAPPER

SHEET NO.: 1 OF 4

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.
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- LEGEND:
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 - ⊕ = SET NAIL AND DISK STAMPED "CHW POP LB 5075"
 - ⊕ = SET 5/8" STEEL REBAR AND CAP MARKED "CHW INC LB 5075"
 - ⊕ = CLEANOUT
 - ⊕ = METAL POWER POLE
 - ⊕ = ELECTRIC HANDHOLE
 - ⊕ = ELECTRIC METER
 - ⊕ = FIBER OPTIC BOX
 - ⊕ = GUY ANCHOR
 - ⊕ = BACKFLOW PREVENTOR
 - ⊕ = FIRE HYDRANT
 - ⊕ = IRRIGATION CONTROL VALVE
 - ⊕ = GAS METER
 - ⊕ = GAS VALVE
 - ⊕ = SIGN
 - ⊕ = TREE (SIZE AND TYPE AS NOTED)
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SCALE:
1" = 30'

APPLY SCALE
BAR IS ONE INCH ON
ORIGINAL DRAWING
DO NOT USE FOR ANY
THIS SHEET, ADJUST
SCALES ACCORDINGLY.

CITY OF GAINESVILLE

TECHNICAL: JWH
CREW CHIEF: JIM
CHECKED BY: AHH
FIELD BOOK & PAGE: 615-1

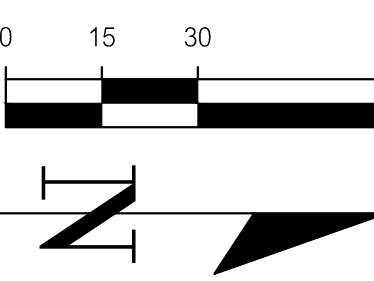
SURVEY DATE: 06/09/2021
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Certificate of Authorization No. LB. 5075
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SHEET NO.: 2 OF 4

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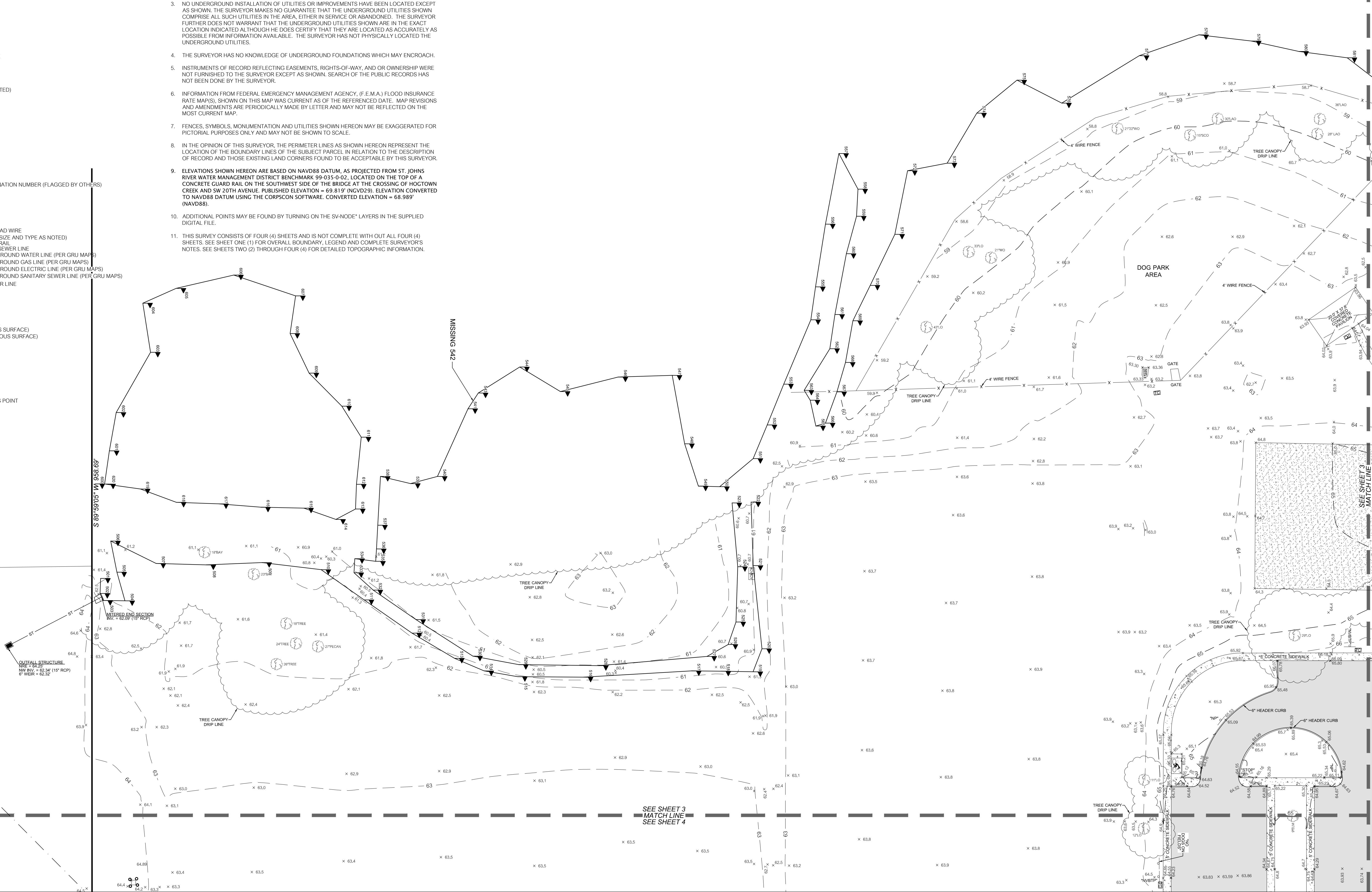
TOPOGRAPHIC SURVEY
OF FOREST PARK
LOCATED IN SECTION 10, TOWNSHIP 10 SOUTH, RANGE 19 EAST,
CITY OF GAINESVILLE, ALACHUA COUNTY, FLORIDA

GRAPHIC SCALE



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ANY SCALE
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ORIGINAL DRAWING
1\"/>

CITY OF GAINESVILLE

TECHNICAL	SURVEY DATE
JOHN	06/09/2021
CREW CHIEF	REVISION DATE
JM	N/A
CHECKED BY	PROJECT NUMBER
AHH	21-0219
FIELD BOOK & PAGE	615-1

AARON H. HICKMAN
SEE SHEET 1 OF 4

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SHEET NO:
3 OF 4

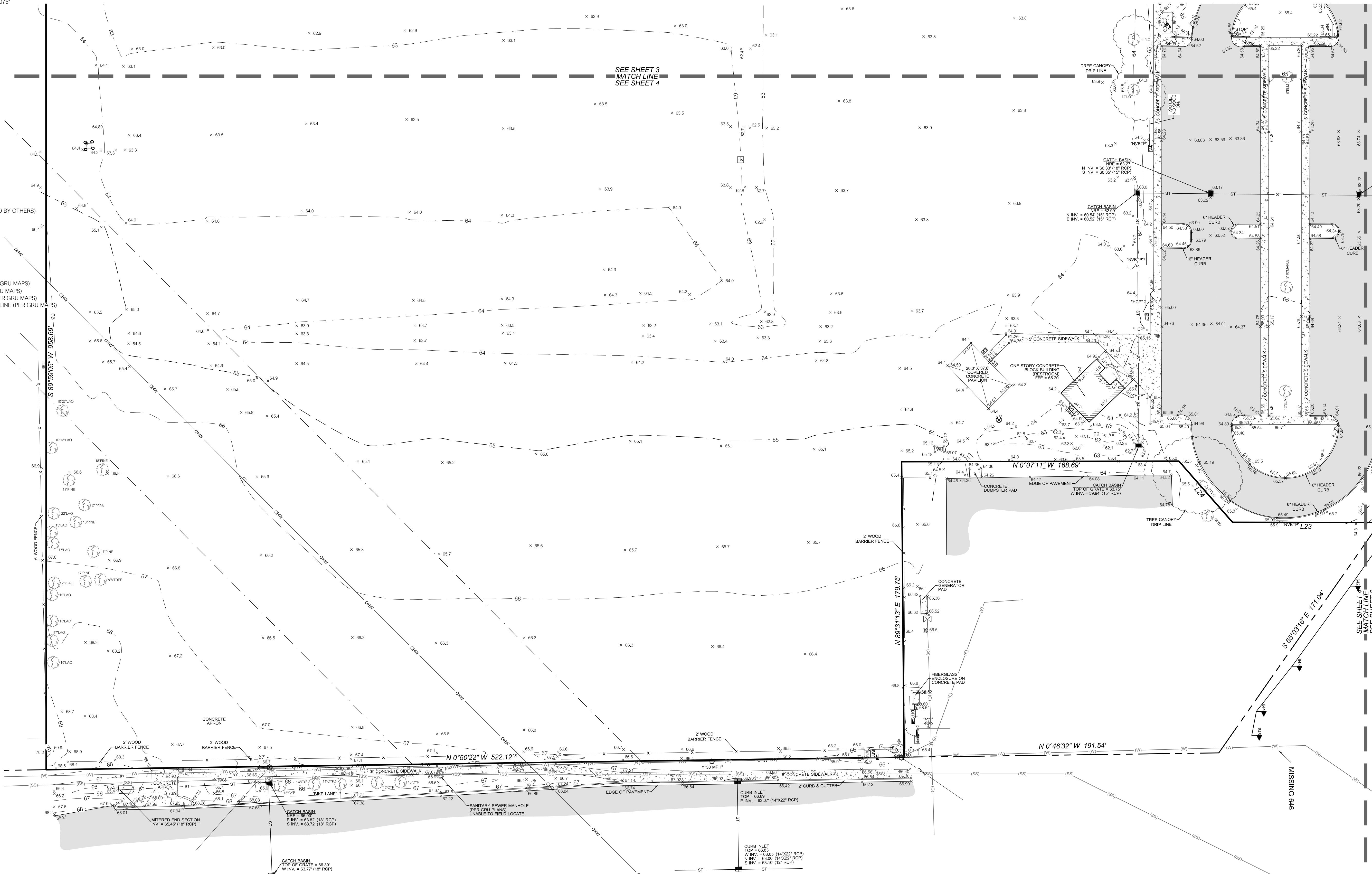
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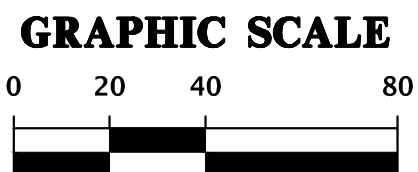
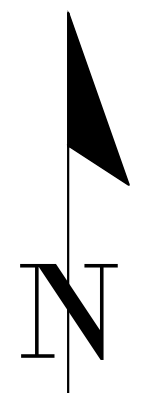
CITY OF GAINESVILLE

DATE: 06/09/2021
REVISION DATE: N/A
PROJECT NUMBER: 21-0219
FIELD BOOK & PAGE: 615-1

TECHNICAL: AARON H. HICKMAN
CREW CHIEF: JIM
CHECKED BY: AHH
FIELD BOOK & PAGE: 615-1

This map prepared by:
AARON H. HICKMAN
Certificate of Authorization No. LB 5075
NOT VALID WITHOUT THE ORIGINAL
SIGNATURE AND SEAL OF A FLORIDA
LICENSED SURVEYOR AND MAPPER

SHEET NO.:
4 OF 4

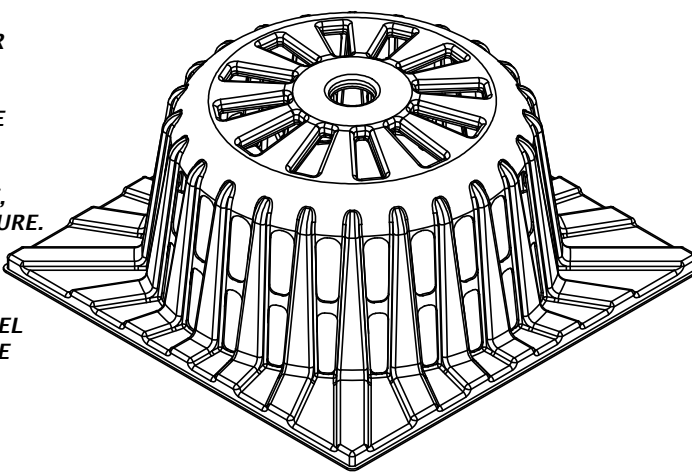


STORMWATER POLLUTION PREVENTION LEGEND

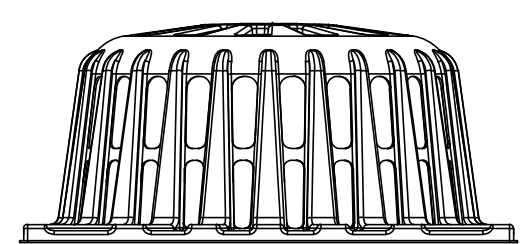
- TS** = TEMPORARY SEEDING
PS = PERMANENT SEEDING
ML = MULCHING
SD = SOD STABILIZATION
SF = SILT BARRIER
TB = TREE BARRIER
IP = INLET PROTECTION
OP = OUTLET PROTECTION
CO = CONSTRUCTION ENTRANCE/EXIT

TYPICAL INSTALLATION SEQUENCE FOR SILT-SAVER FRAME AND FILTER

1. EXCAVATE APPROXIMATELY 4" TO 6" BELOW THE TOP OF THE INLET STRUCTURE.
2. PLACE THE FRAME ONTO THE INLET STRUCTURE, ENSURING PROPER SEATING OF FRAME TO STRUCTURE.
3. SLIDE THE FILTER OVER THE FRAME.
4. FILL THE FILTER POCKETS WITH SOIL, #57 GRAVEL OR EQUIVALENT. THE FILTER POCKETS SHOULD BE COMPLETELY FILLED TO ENSURE A GOOD SEAL BETWEEN THE GROUND AND INLET STRUCTURE.
5. BACK FILL AROUND THE FRAME AND FILTER ASSEMBLY IS NOT REQUIRED TO COMPLETE INSTALLATION; HOWEVER, BACK FILLING MAY BE NECESSARY TO COMPLETE EXCAVATION REQUIREMENTS FOR THE SITE.

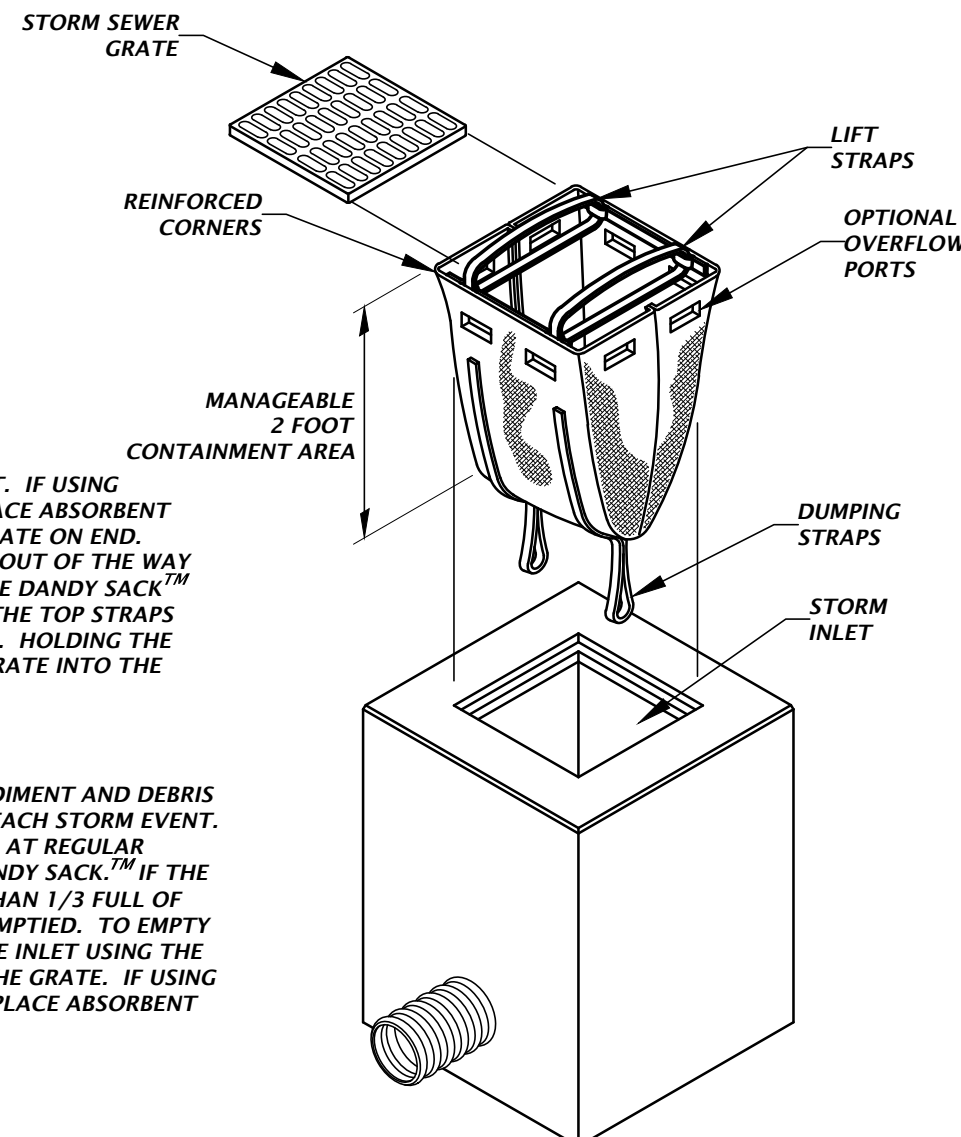


BASE OF FRAME SHAPED & SIZED TO FIT INLET TOP



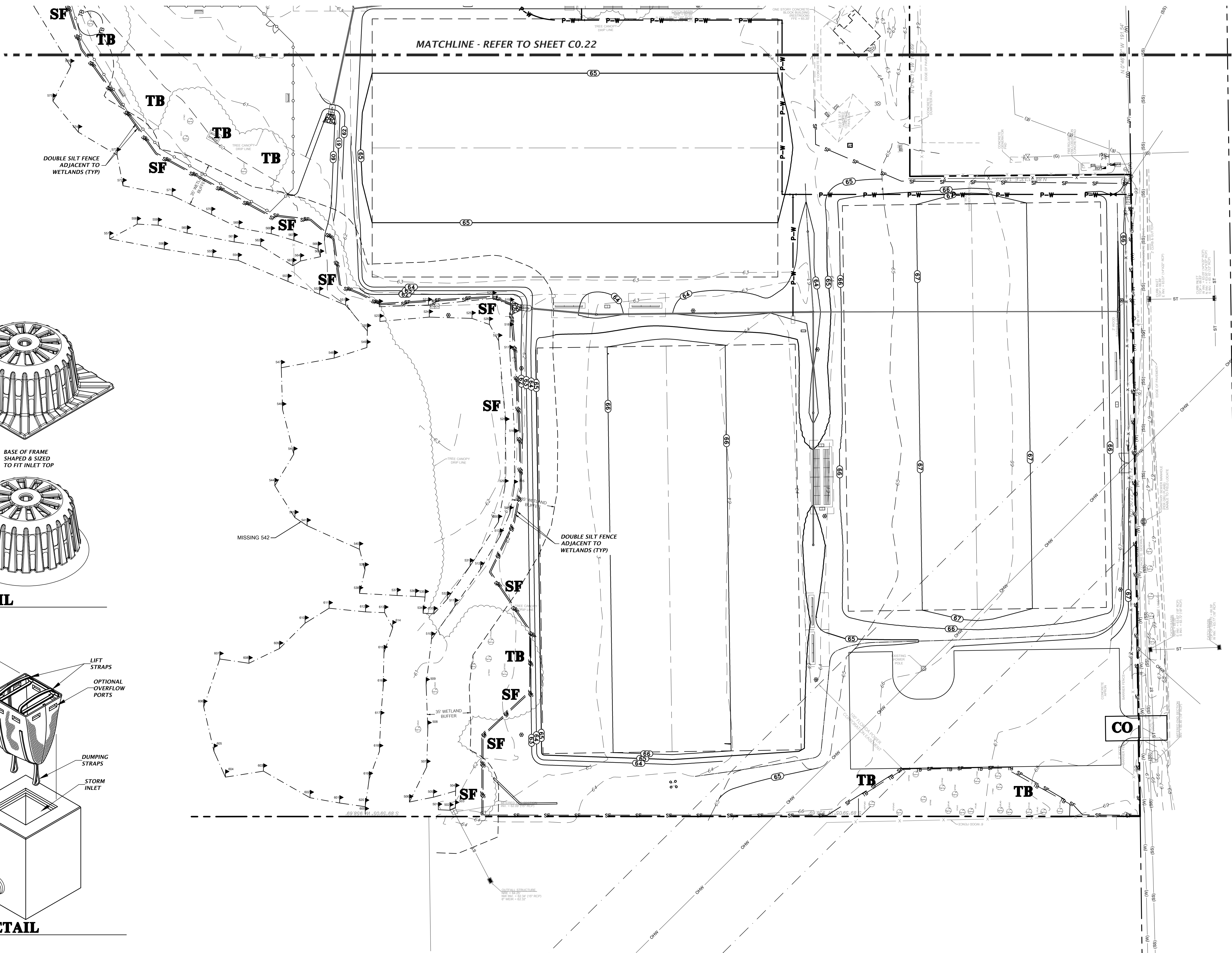
SILT-SAVER® DETAIL

NTS



DANDY SACK™ DETAIL

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SCALE: 1"=40'
VERIFY SCALE ON
ORIGINAL DRAWING
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THIS SHEET ADJUST
SCALES ACCORDINGLY.

CONSTRUCTION DIVISIONS

12/06/2021 - FIRST SUBMITTAL TO CITY OF GAINESVILLE, GRU AND SRWWD
3/11/2022 - RESUBMITTAL TO CITY OF GAINESVILLE, GRU AND SRWWD
5/18/2022 - MAPPT 100% DOCUMENTS

CITY OF GAINESVILLE
PROJECT: FOREST PARK WSPP
SHEET TITLE: STORMWATER POLLUTION PREVENTION PLAN

DESIGNED BY: K. MERRITT
QUALITY CONTROL: C. THORNTON
PROJECT NUMBER: T. HASTAY
SHEET NUMBER: 21-0219

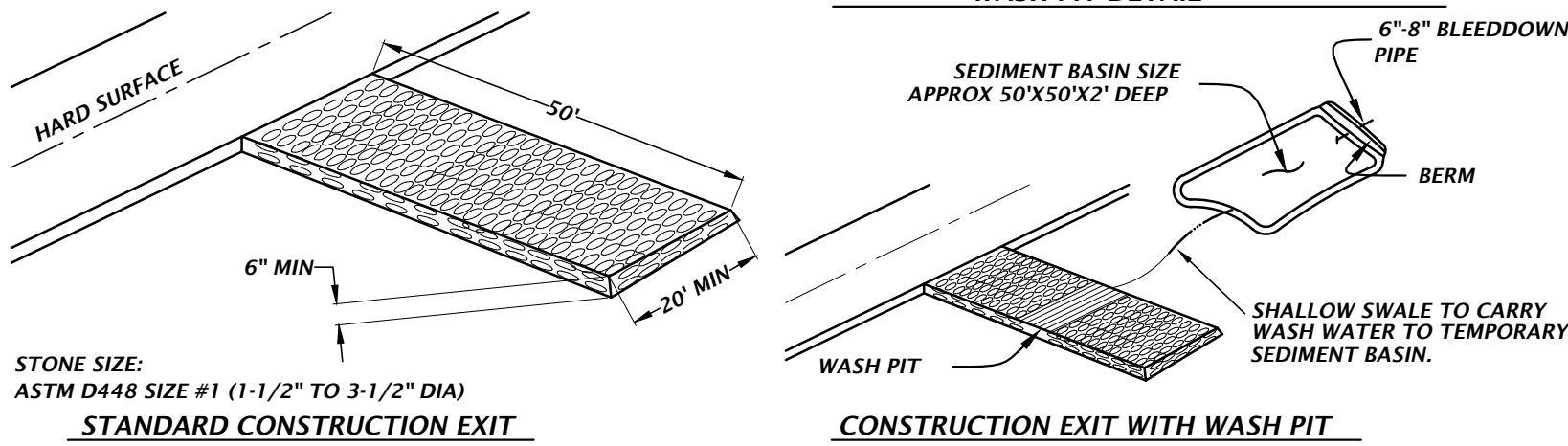
TRAVIS J. HASTAY

FL PE No. 84295
SHEET NO. C0.21

BASIN EROSION & SEDIMENTATION CONTROL

1. SILT FENCING AND/OR STAKED HAYBALES SHALL BE CONSTRUCTED WHERE SHOWN ON THE DRAWINGS PRIOR TO STARTING CONSTRUCTION.
2. ALL STORMDRAIN INLETS SHALL BE PROTECTED DURING CONSTRUCTION IN ACCORDANCE WITH FDOT STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL.
3. THE DRAINAGE BASINS SHALL BE ROUGH GRADED PRIOR TO CONSTRUCTING THE LIMEROCK BASE. THE RETENTION BASINS SHALL BE FINE GRADED AND GRASSED PRIOR TO PAVING AND SITE CLEANUP.
4. THE STORMDRAIN SYSTEM SHALL BE FLUSHED OUT TO REMOVE ALL ACCUMULATED DEBRIS AND SEDIMENT UPON COMPLETION OF CONSTRUCTION.
5. THE DRAINAGE BASIN BOTTOM SHALL BE SCRAPED CLEAN OF ALL ACCUMULATED SEDIMENT UPON COMPLETION OF CONSTRUCTION AFTER THE STORMDRAIN SYSTEM IS COMPLETELY FLUSHED OUT. THIS ACTIVITY SHALL ONLY OCCUR IN A DRY STATE.
6. ALL DISTURBED AREAS IN THE CONSTRUCTION AREA SHALL BE COMPLETELY STABILIZED BY COMPLETION OF CONSTRUCTION. GRASS SEEDING RATES AND MIXTURES SHALL BE PER SECTION 570 OF THE STANDARD SPECIFICATIONS. EVIDENCE OF GROWTH MUST BE PRESENT PRIOR TO FINAL RELEASE.
7. REFER TO THE SWPPP PLAN FOR COMPLETE EROSION CONTROL MEASURES.
8. WHERE POND TOP OF BANK IS IN CUT TO EXISTING GRADE, CONTRACTOR SHALL SOD 5-FT BEYOND TOP OF BANK FOR EROSION PROTECTION.

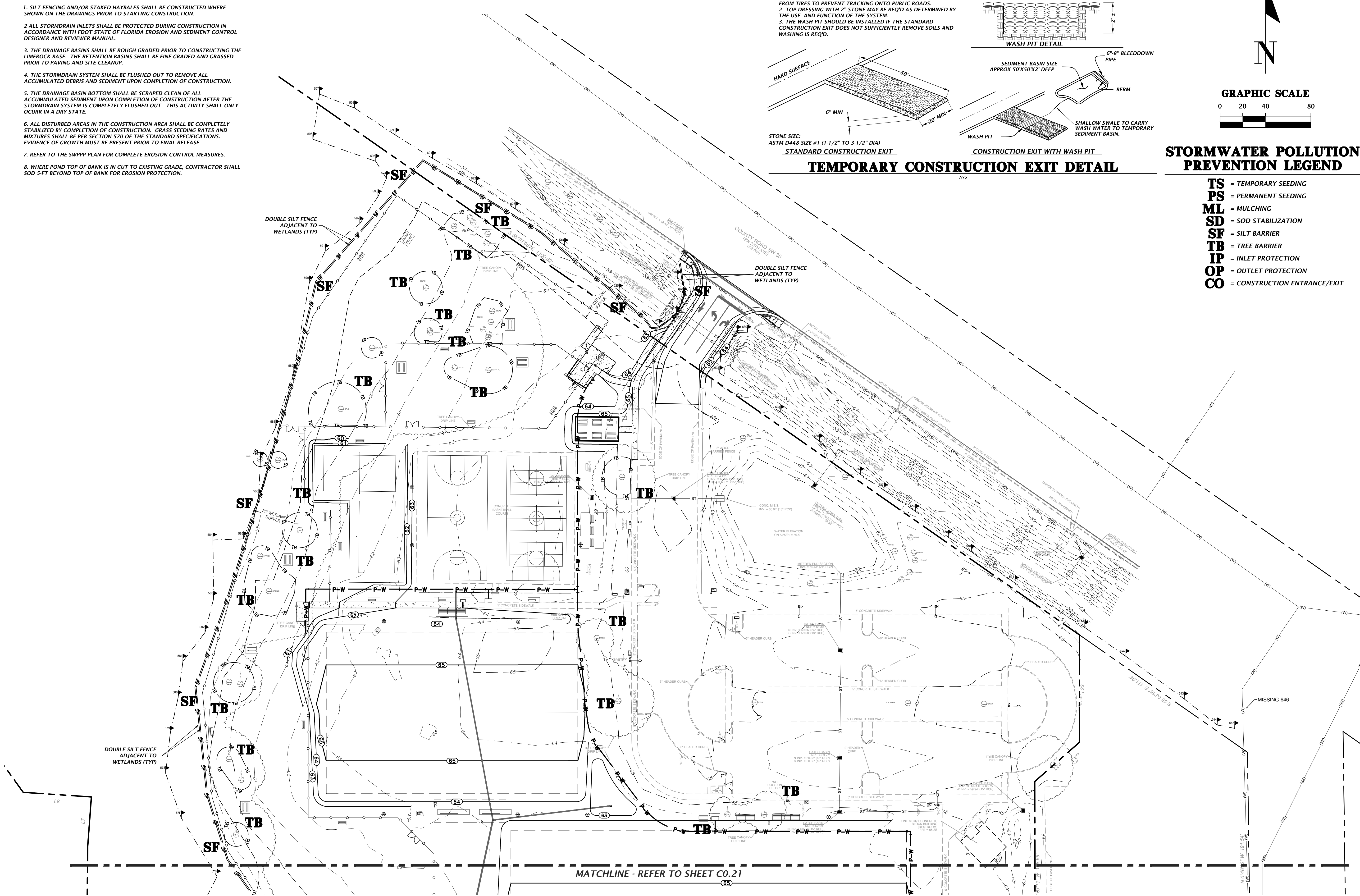
- NOTE:
1. CONSTRUCTION EXIT INSTALLATION SHALL REMOVE MUD/SOILS FROM TIRES TO PREVENT TRACKING ONTO PUBLIC ROADS.
2. TOP DRESSING WITH 2" STONE MAY BE REQ'D AS DETERMINED BY THE USE AND FUNCTION OF THE SYSTEM.
3. THE WASH PIT SHOULD BE INSTALLED IF THE STANDARD CONSTRUCTION EXIT DOES NOT SUFFICIENTLY REMOVE SOILS AND WASHING IS REQ'D.



TEMPORARY CONSTRUCTION EXIT DETAIL

STORMWATER POLLUTION PREVENTION LEGEND

- TS = TEMPORARY SEEDING
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ML = MULCHING
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VERTICAL SCALE
BASED ON
ORIGINAL DRAWING
0' 10' 20' 30' 40' 50' 60' 70' 80' 90' 100'
DO NOT USE ARCHIVAL
THIS SHEET ADJUST
SCALES ACCORDINGLY.

CONSTRUCTION REVISIONS

CITY OF GAINESVILLE
FOREST PARK WSP
STORMWATER POLLUTION PREVENTION PLAN

CLIENT
CITY OF GAINESVILLE

DESIGNER
K. MERRITT

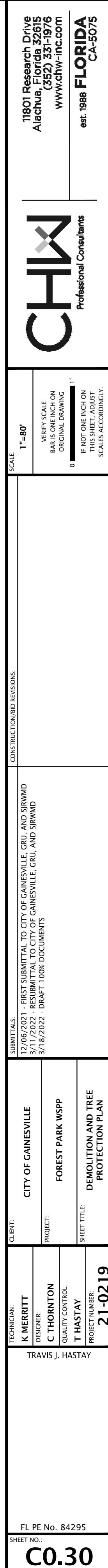
QUALITY CONTROL
C. THORNTON

PROJECT NUMBER
T. HASTAY

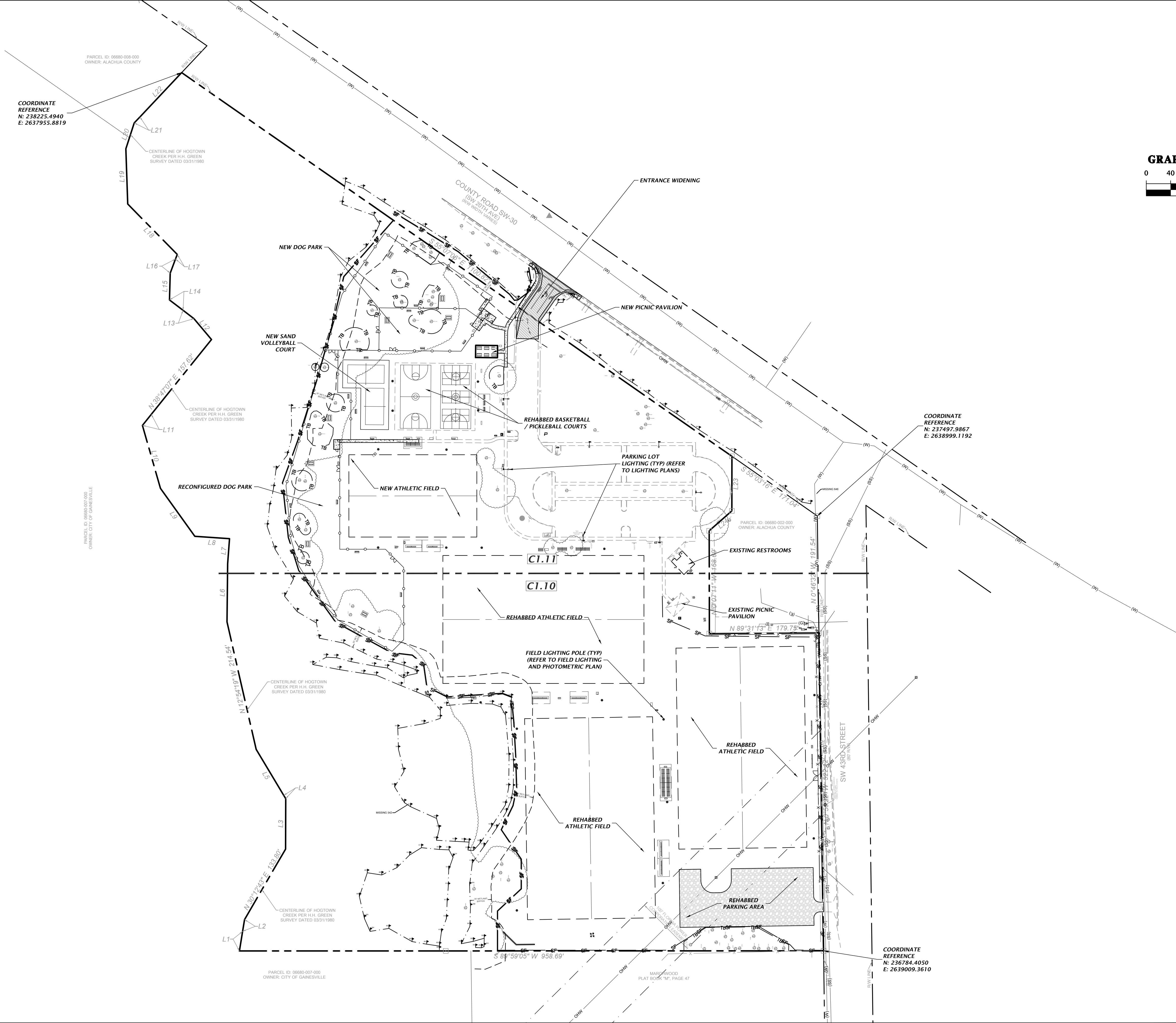
PROJECT NUMBER
21-0219

FL PE No. 84295
SHEET NO.

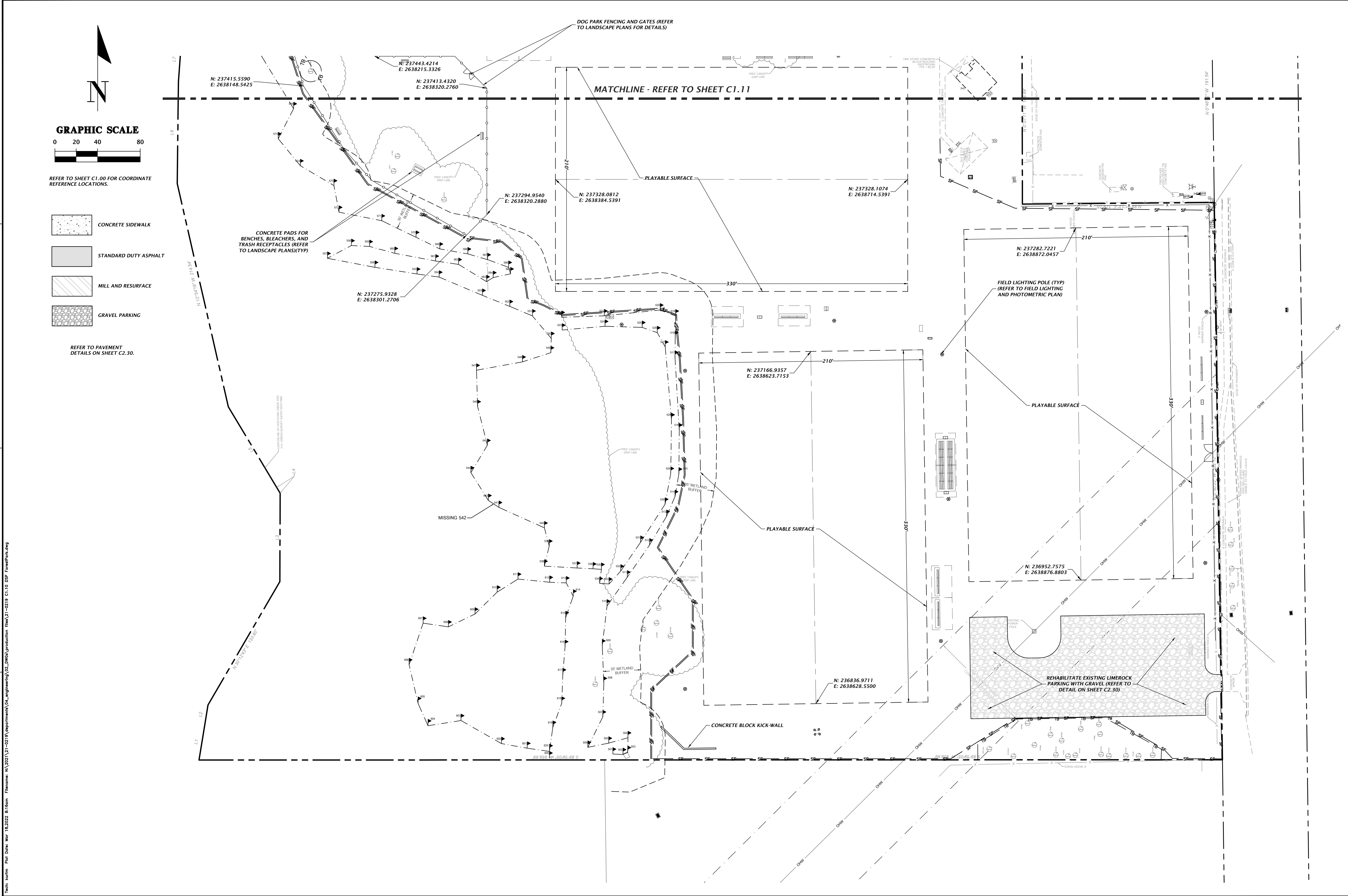
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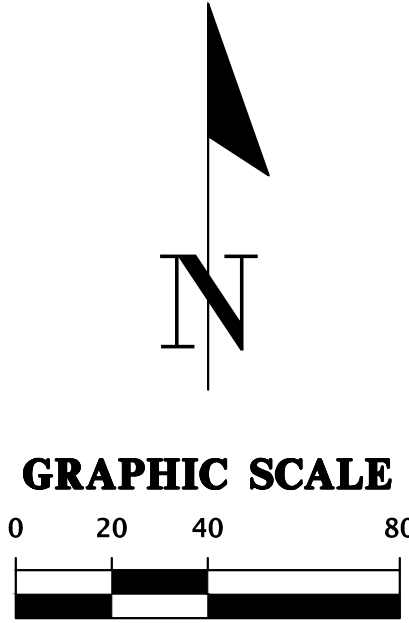


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SCALE 1"=80'	VERIFY SCALE ON BASIC ORIGINAL DRAWING 0"=1" SCALE THIS SHEET ADJUST SCALES ACCORDINGLY.
CONSTRUCTION REVISIONS	
DATE: 12/06/2021 BY: K. MERRITT DESCRIPTION: FIRST SUBMITTAL TO CITY OF GAINESVILLE, GRU AND SRWWD	
DATE: 3/11/2022 BY: C. THORNTON DESCRIPTION: RESUBMITTAL TO CITY OF GAINESVILLE, GRU AND SRWWD	
DATE: 5/18/2022 BY: T. HASTAY DESCRIPTION: MAP 1 10% DOCUMENTS	
CITY OF GAINESVILLE	PROJECT: FOREST PARK WSP
CLIENT: K. MERRITT	PROJECT NUMBER: 21-0219
DESIGNER: C. THORNTON	PROJECT TITLE: MASTER SITE PLAN
QUALITY CONTROL: T. HASTAY	
TRAVIS J. HASTAY	
FL PE No. 84295	
SHEET NO. C1.00	

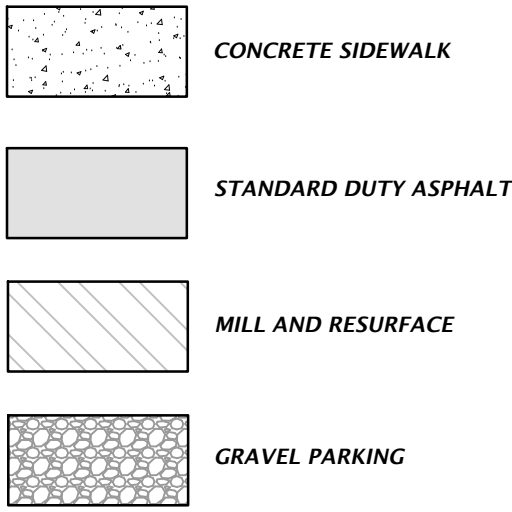


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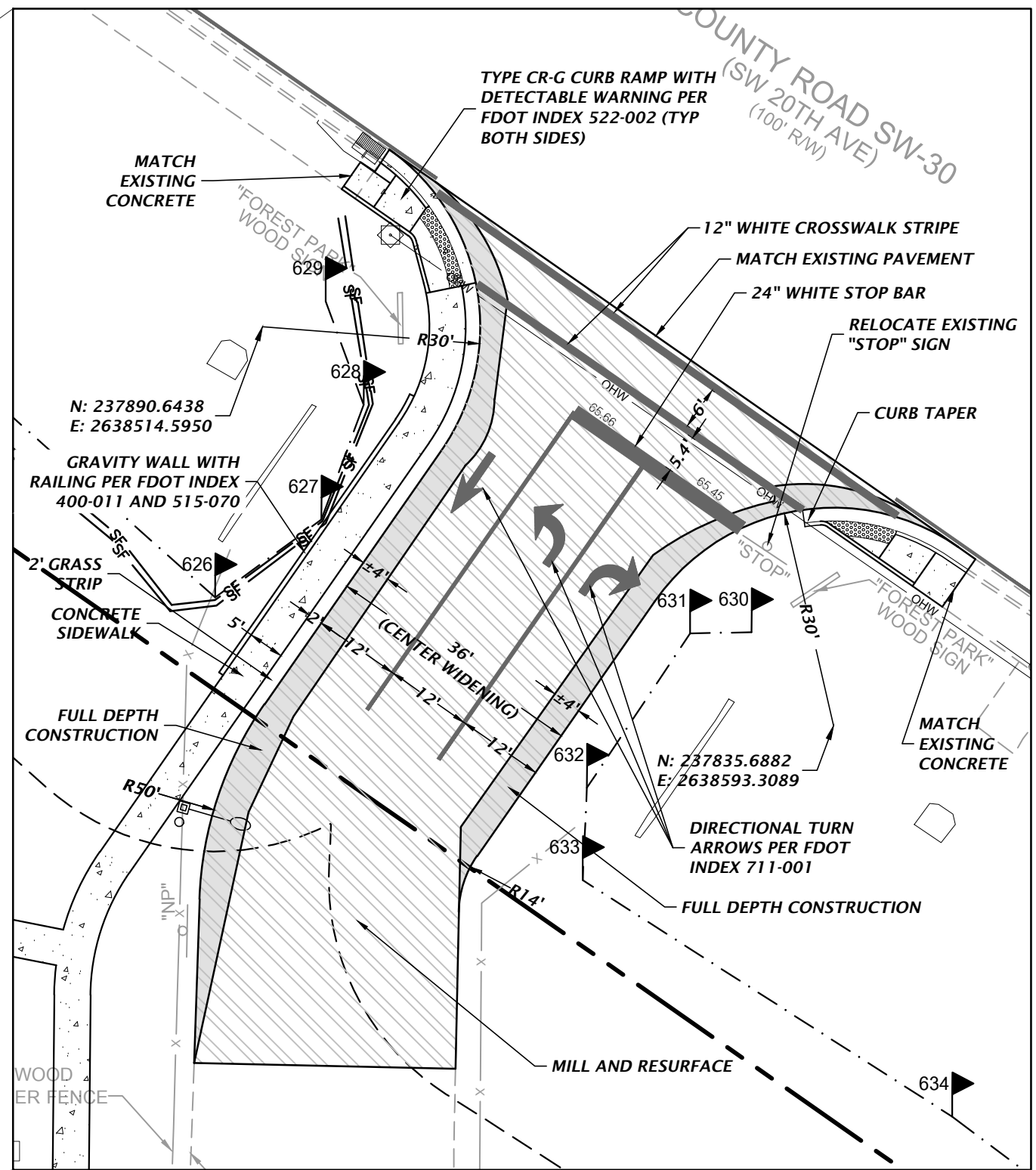
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CHW Professional Consultants	
SCALE 1"=40'	VERTICAL SCALE BASED ON ORIGINAL DRAWING 0"=100' VERTICAL SCALE THIS SHEET ADJUST SCALES ACCORDINGLY.
CONSTRUCTION REVISIONS	
CITY OF GAINESVILLE PROJECT: FOREST PARK WSP SHEET TITLE: DETAILED HORIZONTAL CONTROL PLAN	
DESIGNED BY: K. MERRITT	PROJECT NUMBER: 21-0219
DRAWN BY: C. THORNTON	PROJECT NUMBER: 21-0219
CHECKED BY: T. HASTAY	PROJECT NUMBER: 21-0219
TRAVIS J. HASTAY	
FL PE No. 84295	
SHEET NO. C1.10	



REFER TO SHEET C1.00 FOR COORDINATE
REFERENCE LOCATIONS.



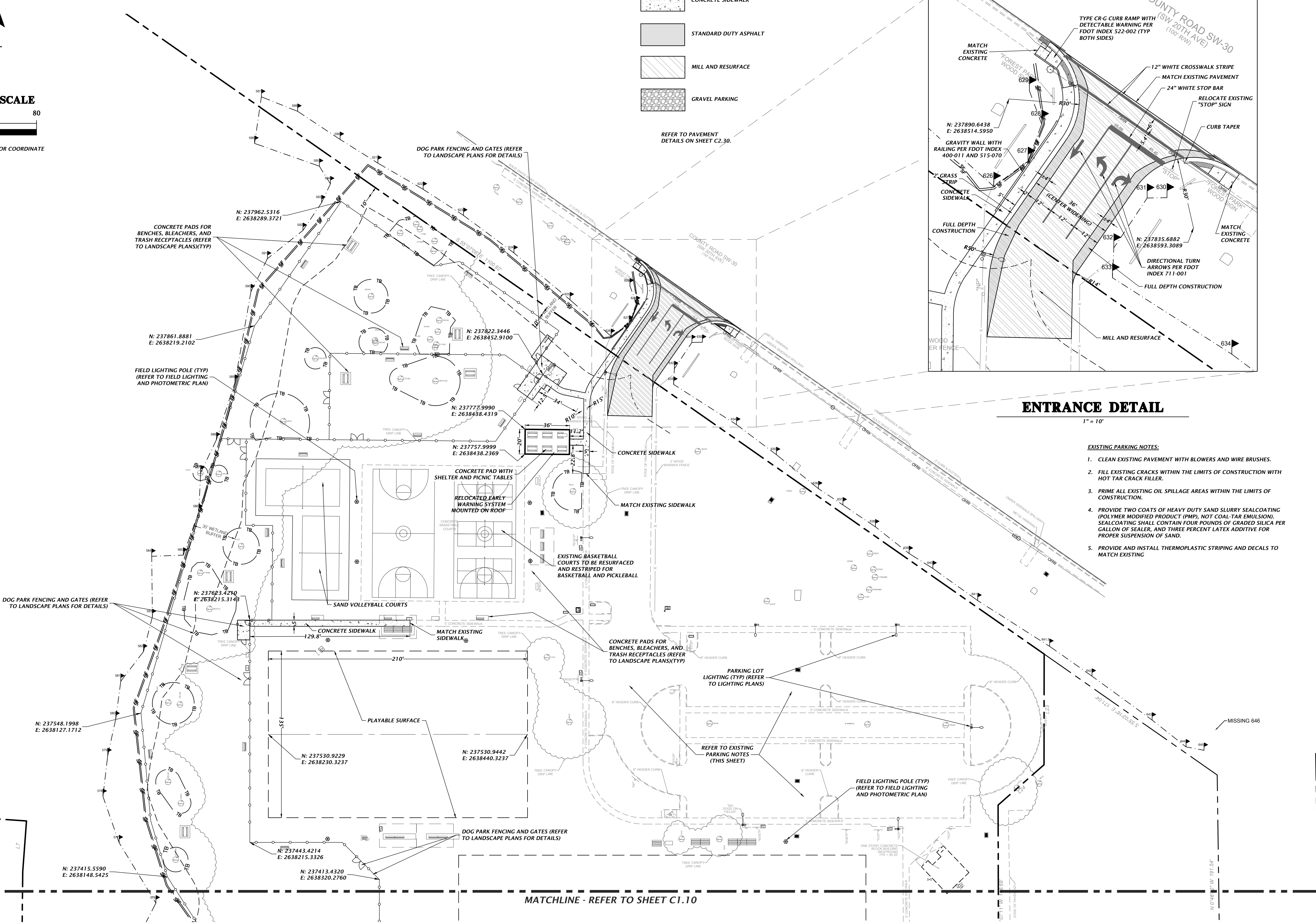
REFER TO PAVEMENT
DETAILS ON SHEET C2.30.



ENTRANCE DETAIL

EXISTING PARKING NOTES:

1. CLEAN EXISTING PAVEMENT WITH BLOWERS AND WIRE BRUSHES.
2. FILL EXISTING CRACKS WITHIN THE LIMITS OF CONSTRUCTION WITH HOT TAR CRACK FILLER.
3. PRIME ALL EXISTING OIL SPILLAGE AREAS WITHIN THE LIMITS OF CONSTRUCTION.
4. PROVIDE TWO COATS OF HEAVY DUTY SAND SLURRY SEALCOATING (POLYMER MODIFIED PRODUCT (PMP), NOT COAL-TAR EMULSION). SEALCOATING SHALL CONTAIN FOUR POUNDS OF GRADED SILICA PER GALLON OF SEALER, AND THREE PERCENT LATEX ADDITIVE FOR PROPER SUSPENSION OF SAND.
5. PROVIDE AND INSTALL THERMOPLASTIC STRIPING AND DECALS TO MATCH EXISTING



MATCHLINE - REFER TO SHEET C1.10

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CONSTRUCTION DIVISION

12/06/2021 - FIRST SUBMITTAL TO CITY OF GAINESVILLE, GRI, AND SRWD
3/11/2022 - RESUBMITTAL TO CITY OF GAINESVILLE, GRI, AND SRWD
5/18/2022 - MAP T 100 DOCUMENTS

CITY OF GAINESVILLE
PROJECT:
FOREST PARK WSPP

DESIGNED BY:
K. MERRITT
CHECKED BY:
C. THORNTON
QUALITY CONTROL:
T. HASTAY
PROJECT NUMBER:
21-0219

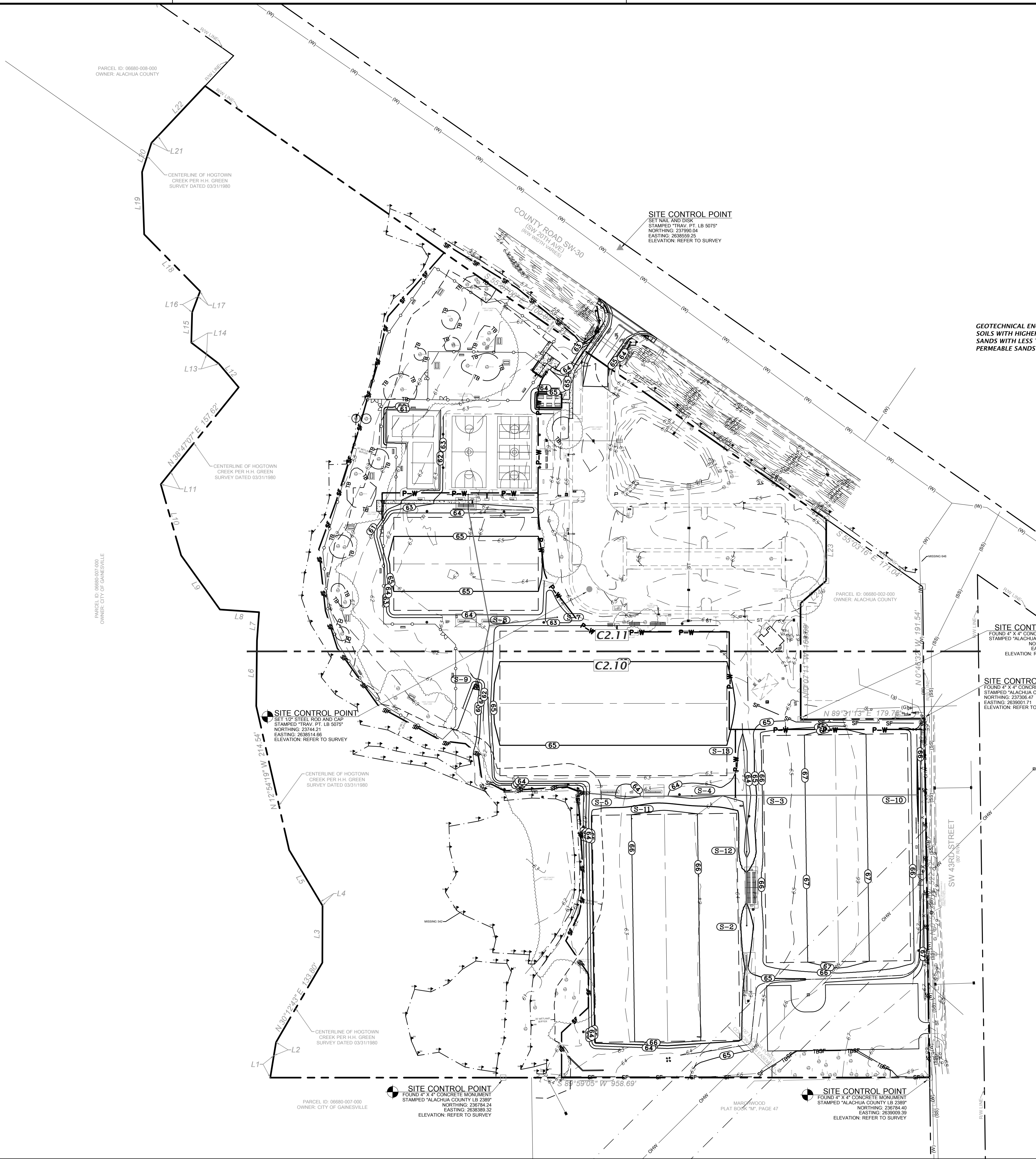
TRAVIS J. HASTAY

FL PE No. 84295

SHEET NO.

C1.11

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GEOTECHNICAL ENGINEER RECOMMENDS REPLACING THE EXISTING NEAR-SURFACE SOIL WITH SANDY SOILS WITH HIGHER PERMEABILITY TO HELP DRAIN THE WATER FROM THE PLAYING FIELDS. CLEAN SANDS WITH LESS THAN 10 PERCENT SOIL FINES PASSING THE NO. 200 SIEVE SHOULD BE USED AS PERMEABLE SANDS FOR SURFACE SOILS TO HELP PROMOTE RUNOFF OF WATER FROM THE SITE.

STORMWATER STRUCTURE TABLE					
STRUCTURE:	STRUCTURE TYPE	TOP	INVERT ELEV	PIPE DIA.	NORTHING & EASTING
S-1	18" AREA DRAIN	63.50	61.01 S	12"	N: 237631.78 E: 2638338.51
S-2	18" AREA DRAIN	64.33	62.57 N	12"	N: 237005.19 E: 2638743.37
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: 237193.68 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	60.94 N 60.95 S	12"	N: 237610.09 E: 2638338.60
S-7	18" AREA DRAIN	62.70	60.95 W	12"	N: 237453.38 E: 2638467.93
S-8	STORM CLEANOUT	63.10	60.43 E 60.43 S 60.43 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: 237357.11 E: 2638351.42
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: 237192.68 E: 2638567.07
S-12	18" AREA DRAIN	63.58	62.25 S 62.25 N	12" 12"	N: 237112.61 E: 2638743.35
S-13	18" AREA DRAIN	63.50	62.21 S	8"	N: 237260.04 E: 2638738.94

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SCALE
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0 40 80 160
REFER TO SHEET C1.00 FOR COORDINATE
REFERENCE LOCATIONS.

SCALE
1"=80'
GRAPHIC SCALE
0 40 80 160
REFER TO SHEET C1.00 FOR COORDINATE
REFERENCE LOCATIONS.

CONSTRUCTION REVISIONS

DATE
12/06/2021
3/11/2022
5/18/2022

DESCRIPTION
FIRST SUBMITTAL TO CITY OF GAINESVILLE, GRU AND SRWD
RESUBMITTAL TO CITY OF GAINESVILLE, GRU AND SRWD
MAP 1.00N DOCUMENTS

CITY OF GAINESVILLE

FOREST PARK WSP

TRAVIS J. HASTAY

K MERRITT
C THORNTON
T HASTAY

PROJECT
QUALITY CONTROL
PROJECT NUMBER

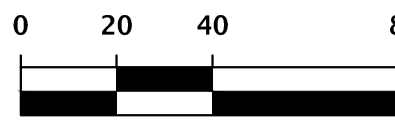
21-0219

FL PE No. 84295

SHEET NO.

C2.00

GRAPHIC SCALE



REFER TO SHEET C1.00 FOR COORDINATE
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STORMWATER STRUCTURE TABLE

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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: 237193.68 E: 2638663.80
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S-6	18" AREA DRAIN	64.80	60.94 N 60.95 S	12" 12"	N: 237610.09 E: 2638338.60
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S-8	STORM CLEANOUT	63.10	60.43 E 60.43 S 60.43 N	12" 15" 12"	N: 237441.46 E: 2638369.44
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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: 237192.68 E: 2638567.07
S-12	18" AREA DRAIN	63.58	62.25 S 62.25 N	12" 12"	N: 237112.61 E: 2638743.35
S-13	18" AREA DRAIN	63.50	62.21 S	8"	N: 237260.04 E: 2638738.94

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CONSTRUCTION REVISIONS

DATE: 12/06/2021
BY: J. HASTAY
REVISION: 1
DESCRIPTION: FIRST SUBMITTAL TO CITY OF GAINESVILLE, GRI, AND SRWD
3/11/2022 - RESUBMITTAL TO CITY OF GAINESVILLE, GRI, AND SRWD
5/18/2022 - MAPPT 100% DOCUMENTS

CITY OF GAINESVILLE
PROJECT: FOREST PARK WSP
SHEET TITLE: DETAILED GRADING, DRAINAGE,
AND UTILITY PLAN

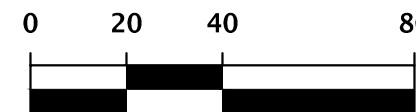
DESIGNED BY: K. MERRITT
CHECKED BY: C. THORNTON
QUALITY CONTROL: T. HASTAY
PROJECT NUMBER: 21-0219

TRAVIS J. HASTAY

FL PE No. 84295

SHEET NO.

C2.10



55 50

EXISTING @ 0.52%

55 50

1" PVC 90° BEND

1" PVC TEE

HOSE BIBB 1" RP2 BFP

1" PE WATER SERVICE (MIN 36" COVER)

7.8" HDPE @ 0.00% INV EL=63.00

1" PE WATER SERVICE (MIN 36" COVER)

7.8" HDPE @ 0.00% INV EL=63.00

22" 12" HDPE @ 0.30%

17.2" 12" HDPE @ 0.30%

100' 12" HDPE @ 0.32%

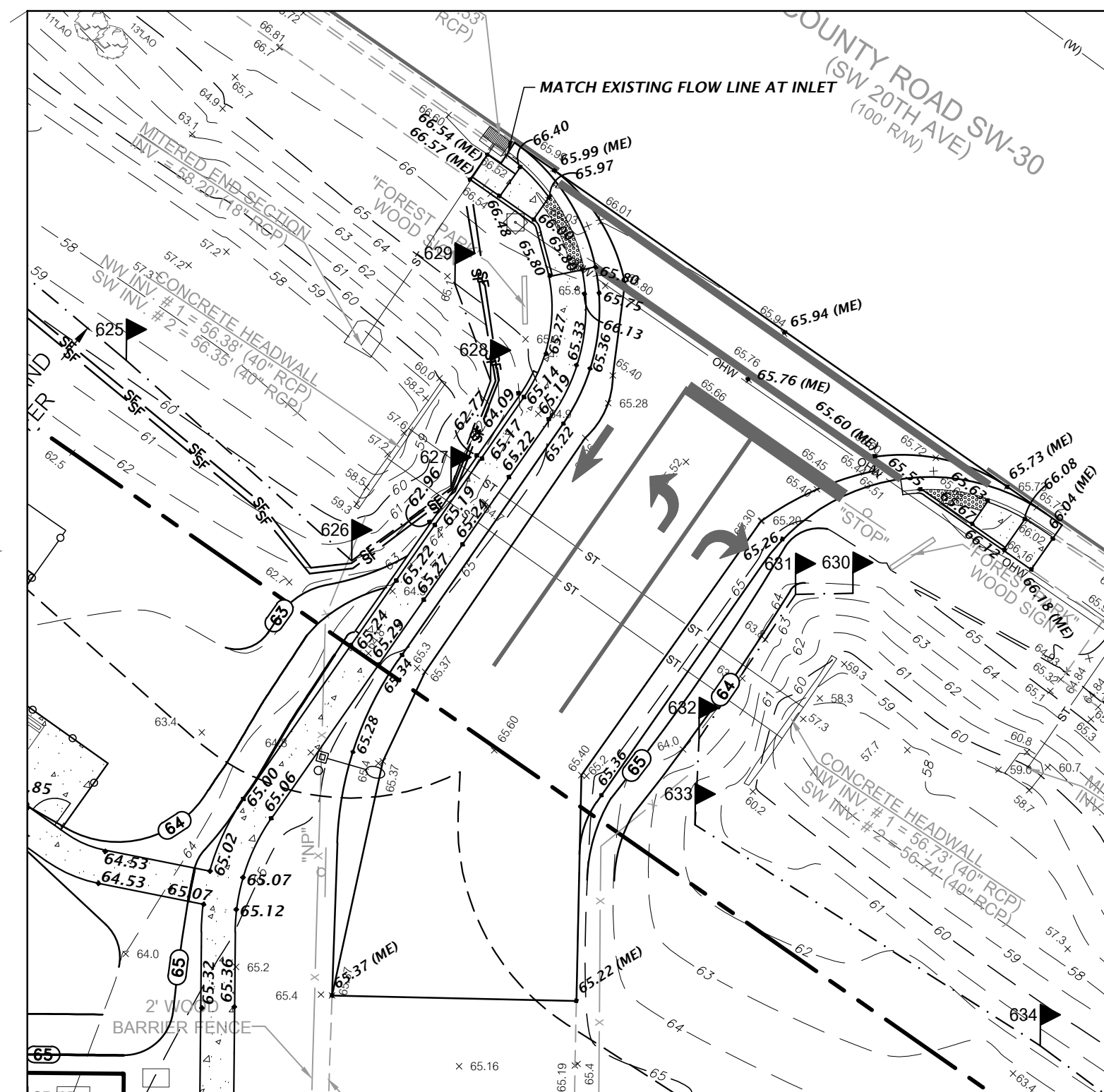
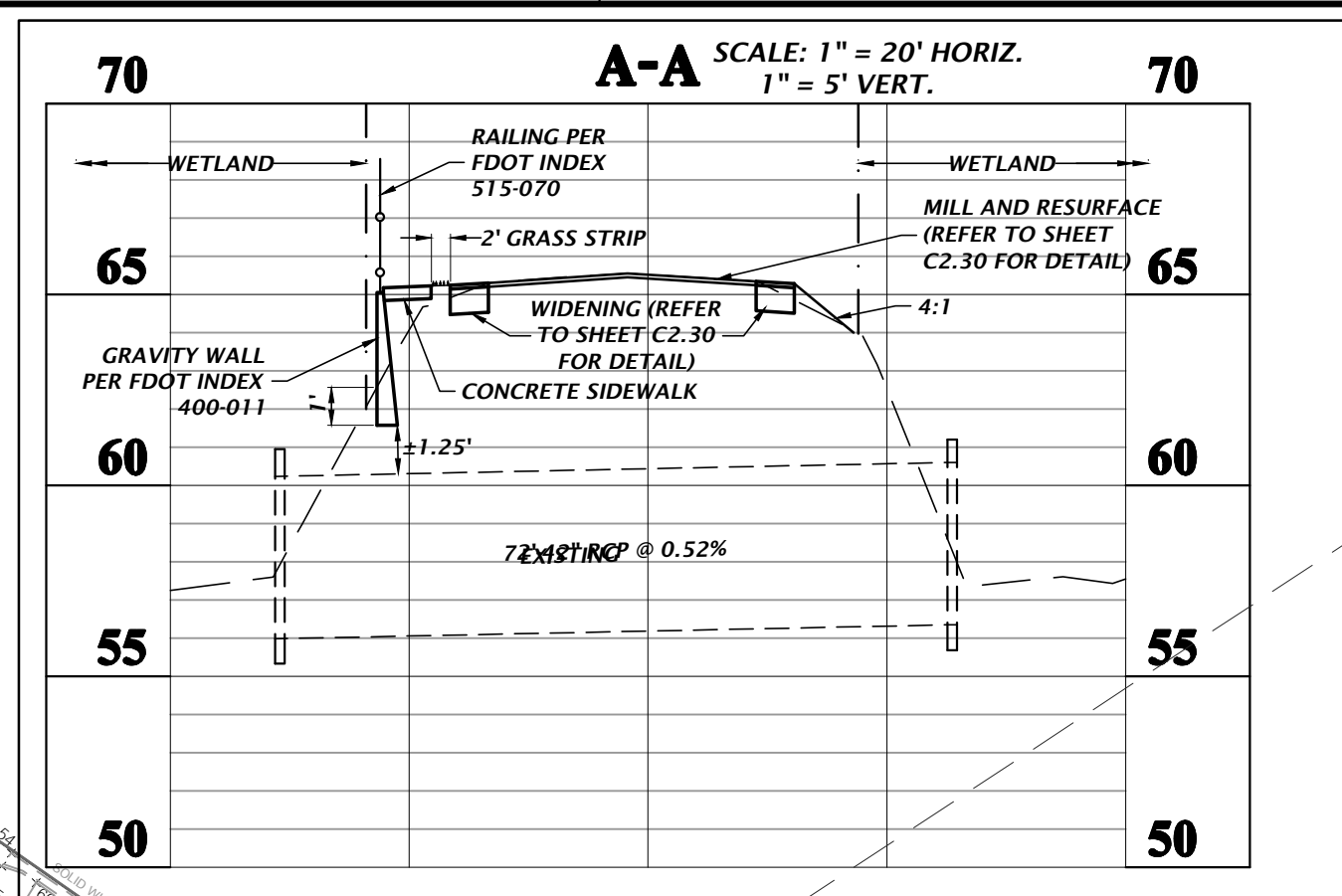
1" PE WATER SERVICE (MIN 36" COVER)

1" PVC 90° BEND

MATCHLINE - REFER TO SHEET C2.10

ENTRANCE DETAIL

1" = 20'




ENTRANCE DETAIL

 $1'' = 20$

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1"=40'
VERIFY SCALE
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ORIGINAL DRAWING

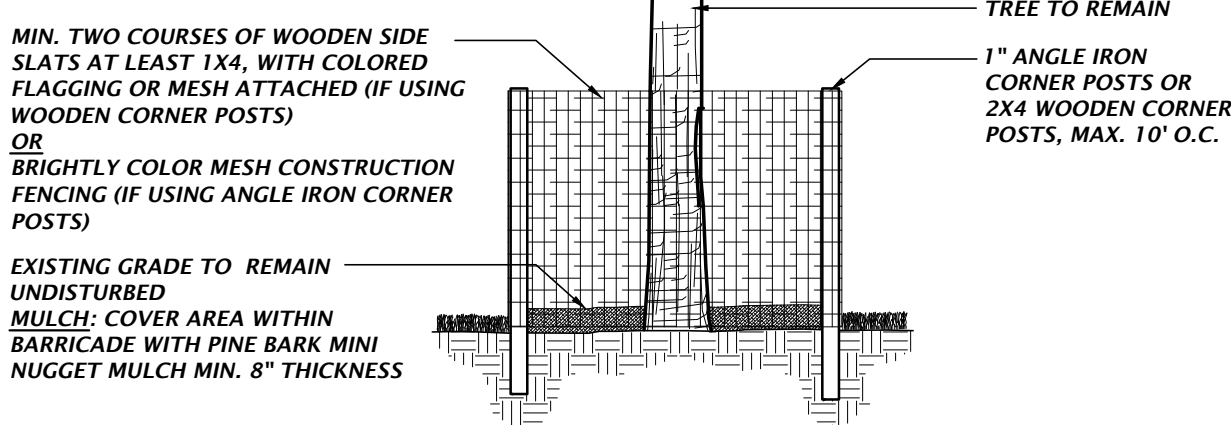
1"
IF NOT ONE INCH ON
THIS SHEET, ADJUST

SUBMITTALS: 2/06/2021 - FIRST SUBMITTAL TO CITY OF GAINESVILLE, GRU, AND SJRWMD 1/11/2022 - RESUBMITTAL TO CITY OF GAINESVILLE, GRU, AND SJRWMD 1/18/2022 - DRAFT 100% DOCUMENTS	CONSTRUCTION/BD REVISIONS:
---	----------------------------

TECHNICIAN:	K MERRITT	CITY OF GAINESVILLE
DESIGNER:	C THORNTON	PROJECT:
QUALITY CONTROL:	T HASTAY	FOREST PARK WSPP
PROJECT NUMBER:		DETAILED GRADING, DRAINAGE

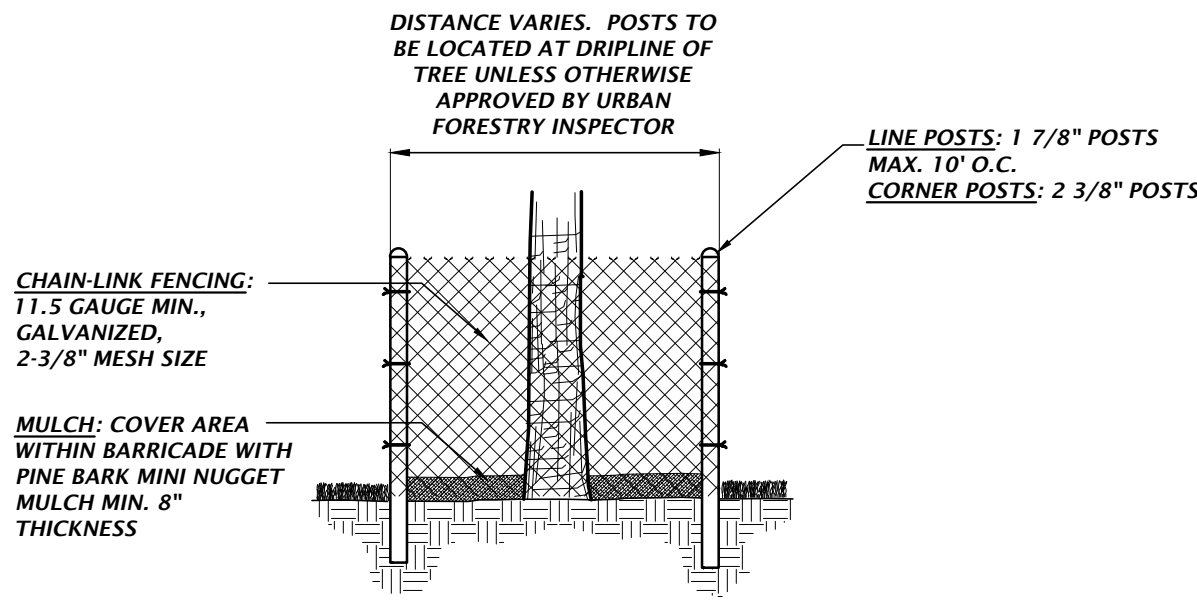
FL PE No. 84295
SHEET NO.:
C2.11

NOTE:
SEE DETAIL BELOW FOR
TREE PROTECTION
REQUIREMENTS FOR HIGH
QUALITY HERITAGE TREES
TO REMAIN.



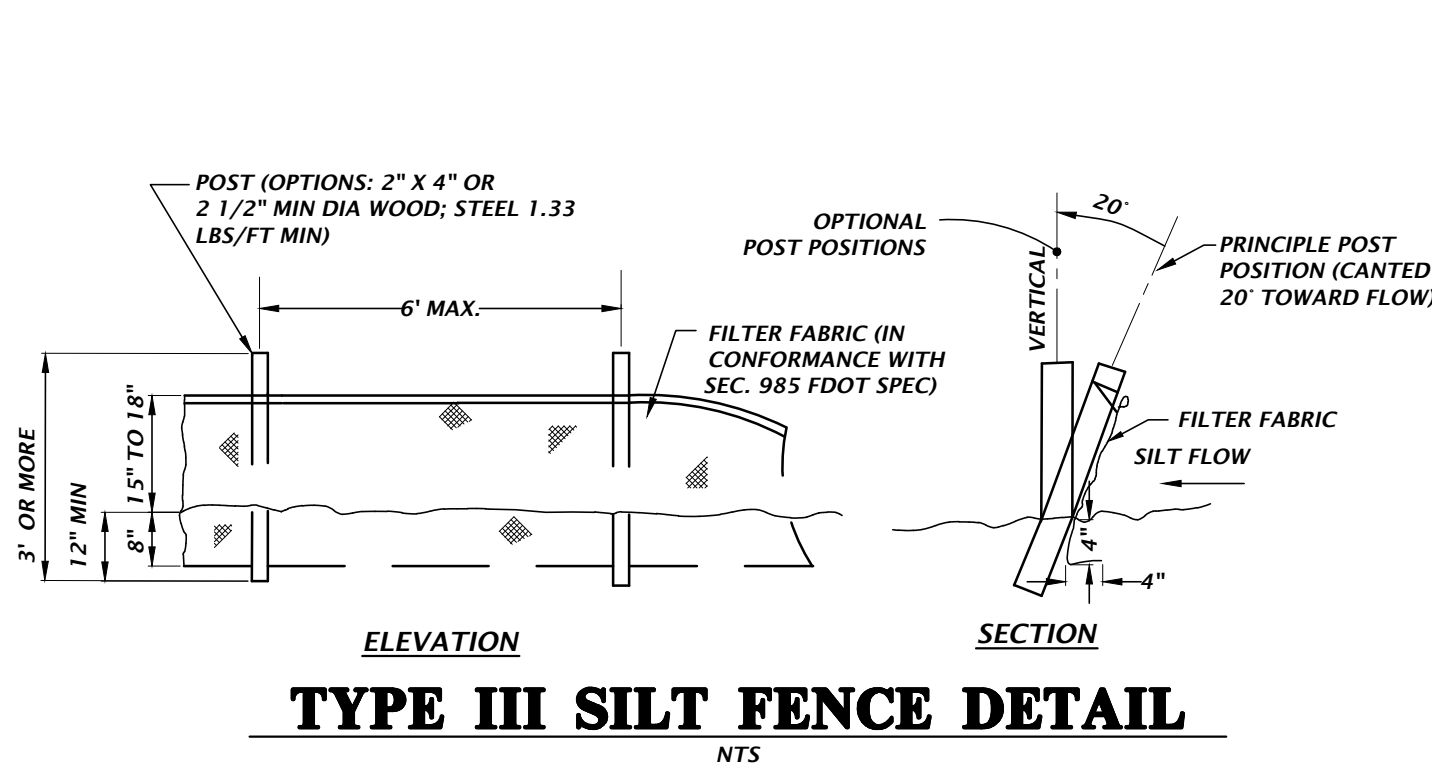
STANDARD TREE PROTECTION DETAIL

NTS



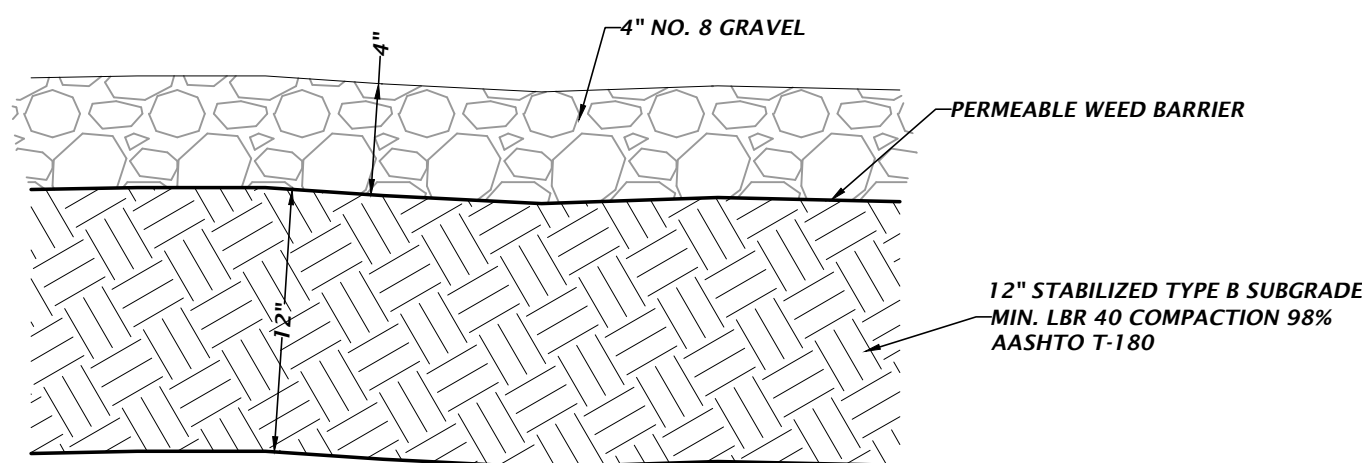
HIGH-QUALITY HERITAGE TREE PROTECTION DETAIL

NTS



TYPE III SILT FENCE DETAIL

NTS



GRAVEL DETAIL

NTS

TREE PROTECTION NOTES

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

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 AND MATERIALS.

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.

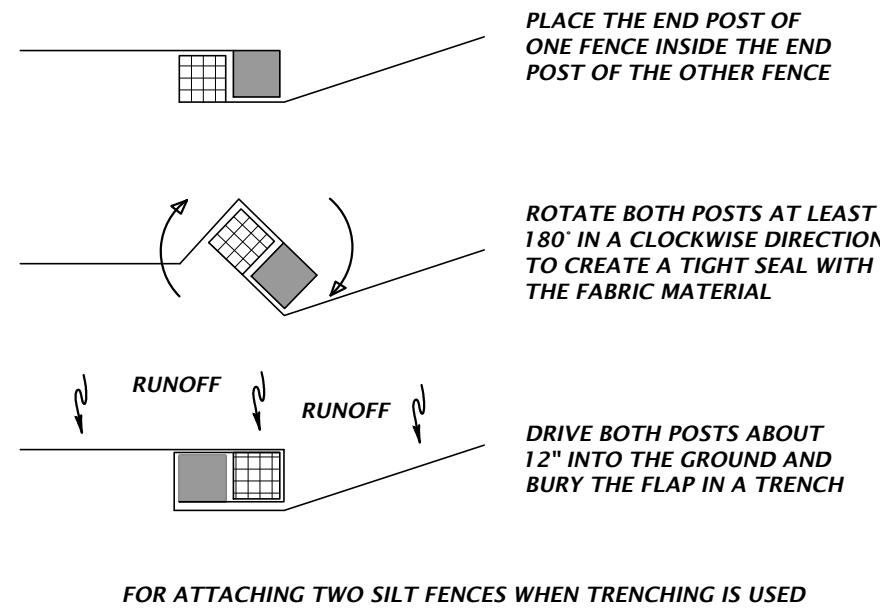
5) LANDSCAPE PREPARATION IN THE PROTECTED AREA SHALL BE LIMITED TO SHALLOW DISCING OF THE AREA. DISCING SHALL BE LIMITED TO A DEPTH OF 4 INCHES UNLESS SPECIFICALLY APPROVED OTHERWISE BY THE CITY MANAGER OR DESIGNEE.

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 OR A MINIMUM OF 2/3 THE AREA OF THE DRIPLINE FOR ALL OTHER REGULATED SPECIES OR AT THE TREE ROOT PLATE, WHICHEVER IS GREATEST (UNLESS OTHERWISE APPROVED BY THE URBAN FORESTRY INSPECTOR).

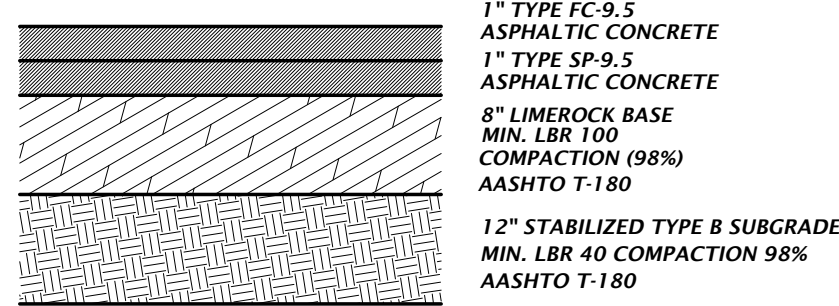
9) CALL THE CITY OF GAINESVILLE URBAN FORESTRY INSPECTOR 352-393-8188 TO SCHEDULE A BARRICADE INSPECTION PRIOR TO BEGINNING ANY CLEARING AND GRUBBING WORK.



FOR ATTACHING TWO SILT FENCES WHEN TRENCHING IS USED

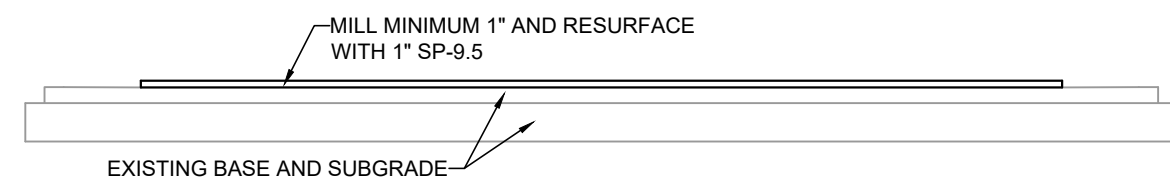
TYPE III SILT FENCE WRAPPING DETAIL

NTS



TYPICAL ASPHALT PAVEMENT DETAIL

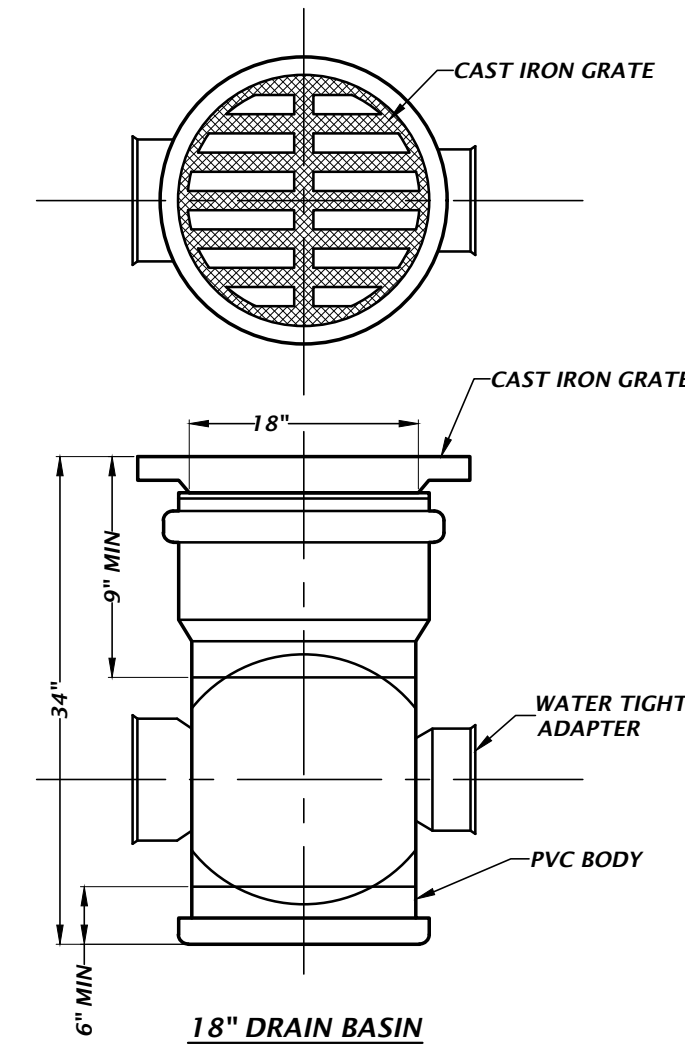
NTS



NOTE:
NO TRAFFIC IS ALLOWED ON THE MILLED SURFACE; ROADWAY
MUST BE RESURFACED AND STRIPED TO MATCH EXISTING
CONDITIONS PRIOR TO OPENING TO TRAFFIC

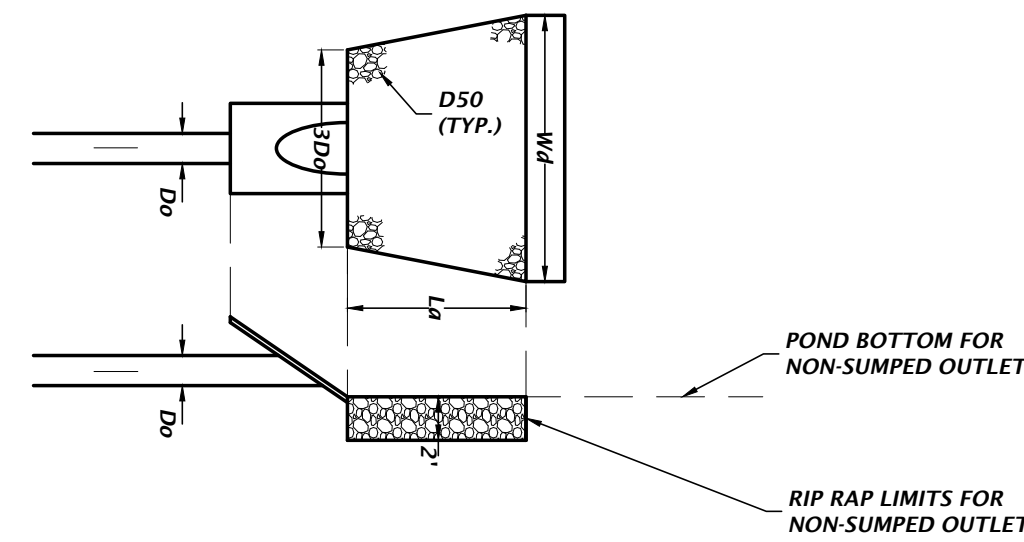
MILLING AND RESURFACING DETAIL

NTS



AREA DRAIN BASIN DETAIL

NTS



STRUCTURE ID	PIPE DIAMETER D _o (ft)	RIP RAP SPREAD AT PIPE OUTLET 3D _o (ft)	RIP RAP SPREAD AT END OF APRON W _d (ft)	LENGTH OF APRON L _a (ft)	MEDIAN RIP RAP SIZE D ₅₀ (ft)
S-5	1.25	3.75	10.75	7.0	0.25
S-9	1.25	3.75	10.75	7.0	0.25

RIP-RAP APRON DETAIL

NTS

11801 Research Drive
Auburn, Florida 32615
(352) 331-1976
www.chw-inc.com
est. 1988 FLORIDA
CA-5075

CHW
Professional Consultants

SCALE
N/A
VERIFY SCALE ON
BARRICADE
ORIGINAL DRAWING
0 1' 2'
DO NOT SCALE DRAWING
THIS SHEET. ADJUST
SCALES ACCORDINGLY.

CONSTRUCTION REVISIONS

REVISIONS
12/06/2021 - FIRST SUBMITTAL TO CITY OF GAINESVILLE, GRU AND SRWWD
3/11/2022 - RESUBMITTAL TO CITY OF GAINESVILLE, GRU AND SRWWD
5/18/2022 - DRAFT 1.00N DOCUMENTS

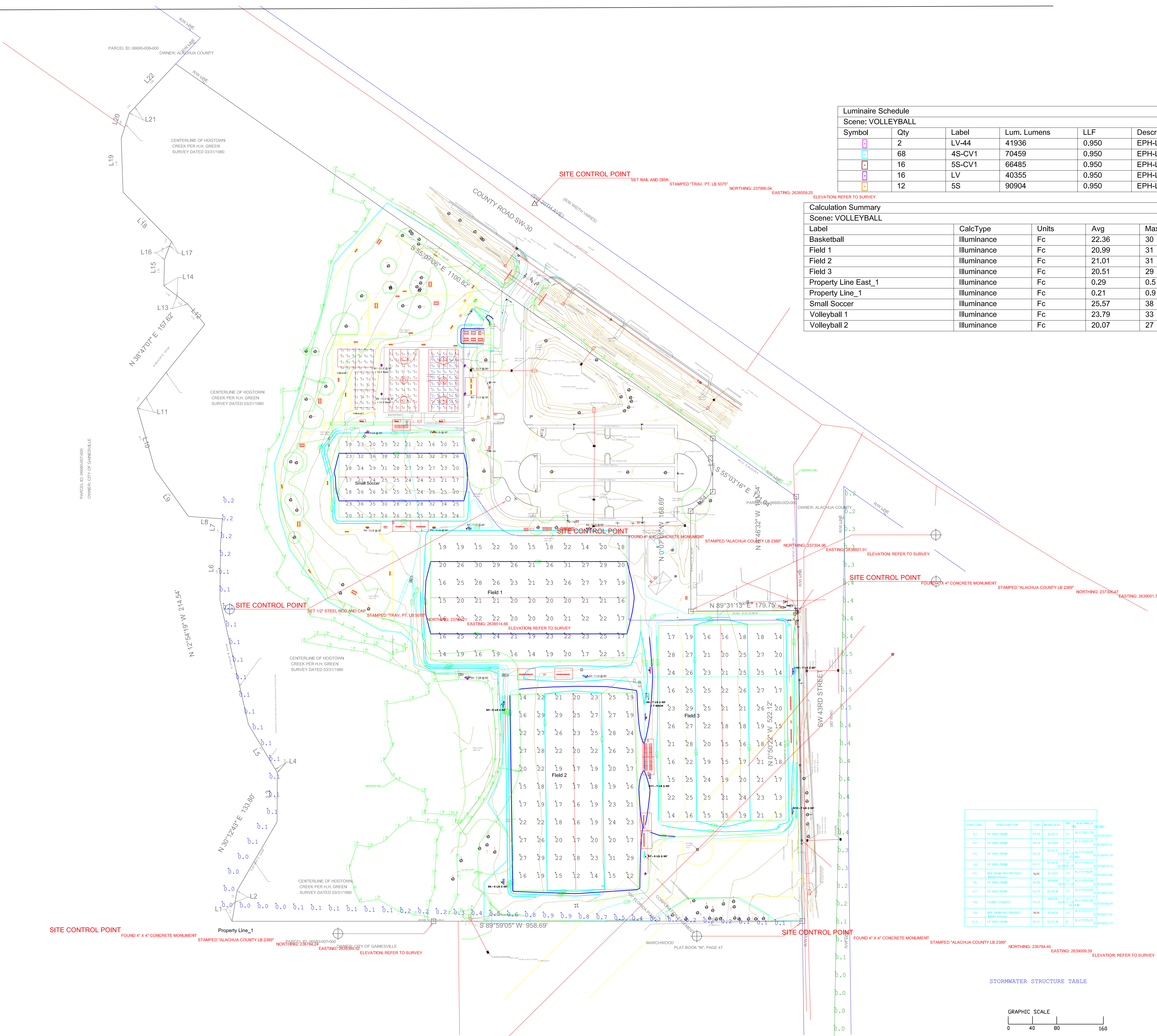
CITY OF GAINESVILLE
FOREST PARK WSPP
CONSTRUCTION DETAILS

DESIGNED BY
K. MERRITT
CHECKED BY
C. THORNTON
QUALITY CONTROL
T. HASTAY
PROJECT NUMBER
21-0219

TRAVIS J. HASTAY

FL PE No. 84295
SHEET NO.

C2.30



Luminaire Schedule							
Scene: VOLLEYBALL							
Symbol	Qty	Label	Lum. Lumens	LLF	Description	Lum. Watts	Total Watts
	2	LV-44	41936	0.950	EPH-LV-07-950-U-44	532.7	1065.4
	68	4S-CV1	70459	0.950	EPH-LS-08-0640L-57-70-4S-CV1	697	47396
	16	5S-CV1	66485	0.950	EPH-LS-08-0640L-57-70-5S-CV1	697	11152
	16	LV	40355	0.950	EPH-LV-07-950-U-55	532.7	8523.2
	12	5S	90904	0.950	EPH-LS-08-0640L-57-70-5S	681	8172

Calculation Summary									
Scene: VOLLEYBALL									
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	CV	UG
Basketball	Illuminance	Fc	22.36	30	14	1.60	2.14	0.17	1.38
Field 1	Illuminance	Fc	20.99	31	14	1.50	2.21	0.19	2.00
Field 2	Illuminance	Fc	21.01	31	12	1.75	2.58	0.21	2.42
Field 3	Illuminance	Fc	20.51	29	13	1.58	2.23	0.21	1.79
Property Line East_1	Illuminance	Fc	0.29	0.5	0.0	N.A.	N.A.	N.A.	N.A.
Property Line_1	Illuminance	Fc	0.21	0.9	0.0	N.A.	N.A.	1.09	N.A.
Small Soccer	Illuminance	Fc	25.57	38	16	1.60	2.38	0.19	2.00
Volleyball 1	Illuminance	Fc	23.79	33	14	1.70	2.36	0.24	1.65
Volleyball 2	Illuminance	Fc	20.07	27	12	1.67	2.25	0.20	1.37

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

STRUCTURE	STRUCTURE TYPE	TOP	INVERT ELEV	INVERT	NORTHING & EASTING
S-1	12" AREA DRAIN	61.50	61.015	12"	N 237531.28 E 263938.21
S-2	12" AREA DRAIN	64.30	62.36	12"	N 237055.18 E 2639743.27
S-3	12" AREA DRAIN	61.30	62.015	12"	N 237104.09 E 2639743.34
S-4	12" AREA DRAIN	62.72	61.465	12"	N 237195.10 E 2639824.14
S-5	SEW DRAINAGE PER FOOT INCH 4.0-0.02	76.00	61.30	12"	N 237196.01 E 2639857.48
S-6	12" AREA DRAIN	64.30	62.445	12"	N 237102.01 E 2639818.40
S-7	12" AREA DRAIN	62.70	64.05	12"	N 237455.28 E 2639867.03
S-8	STORM CULVERT	61.10	60.415	12"	N 237241.48 E 2639905.44
S-9	SEW DRAINAGE PER FOOT INCH 4.0-0.02	76.00	60.05	12"	N 237355.31 E 2639915.42
S-10	12" AREA DRAIN	65.31	63.31	12"	N 237195.11 E 2639921.19

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 EPHEBUS 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.

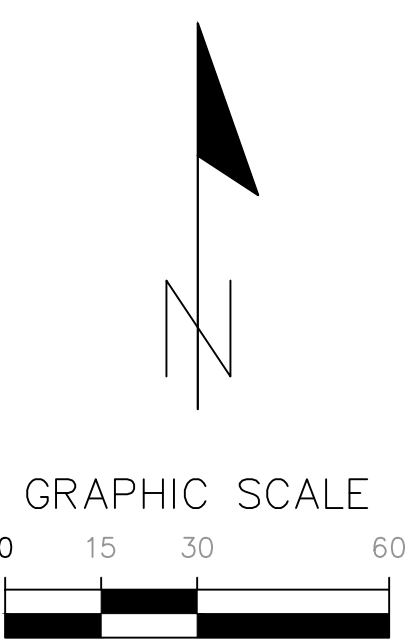


2401 PGA Blvd, Suite 110
Palm Beach Gardens, FL 33410
www.NGUsportslighting.com
Phone: 1-888-NGU-LED5

Passion and Commitment exclusively for Ephesus LED Sports Lighting

FOREST PARK
GAINESVILLE, FL
ALL FIELDS AND PROPERTY LINES
VOLLEYBALL ADDED; NEW SITE PLAN

DESIGNED BY H. JOHNSON, LC	DATE 3/07/2022	SCALE 1" = 80'	DRAWING NUMBER LD21304D
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File name: C:\Users\stomant\Documents\Forest Park MSP\Forest Park Lighting Plan 03 10 22.dwg Plot Date: Mar 11, 2025 1:22:56m Plot Size: 11.00x17.00in

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, EPHEBUS LED SPORTS LIGHTING SYSTEM.
 3. OBTAIN AND PAY ALL FEES AND PERMITS REQUIRED TO INSTALL THE COMPLETE SYSTEMS.
 4. IT IS THE INTENT OF THESE DRAWINGS TO PROVIDE A COMPLETE ELECTRICAL SYSTEM, REGARDLESS OF WHETHER EACH INDIVIDUAL COMPONENT IS MENTIONED OR NOT.
 5. THE WORK SHALL COMPLY WITH ALL LEGALLY REQUIRED CODES AND STANDARDS, INCLUDING:
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 SOCIETY HANDBOOK 10TH EDITION
OTHER APPLICABLE CODES AND STANDARDS THAT APPLY TO THIS TYPE OF CONSTRUCTION.
- 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.
 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.
FLEXIBLE STEEL CONDUIT WHERE REQUIRED, LIQUID TIGHT WHERE REQUIRED.
 4. CONDUCTORS SHALL BE COPPER TYPE THWN-2.
 5. CONVENIENCE RECEPTACLES SHALL BE 15 AMP. NEMA 5-15R, UNLESS NOTED OTHERWISE.
 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.
 13. ALL ELECTRICAL EQUIPMENT AND SYSTEMS SHALL BE TESTED AND ADJUSTED FOR PROPER OPERATION. COMPLETE WIRING SYSTEM SHALL BE FREE OF SHORT CIRCUITS.
 14. CONTRACTOR SHALL MAKE COMPLETE CONNECTIONS TO ALL EQUIPMENT. COORDINATE WITH EQUIPMENT SUPPLIER FOR EXACT REQUIREMENTS AND REQUIREMENTS.
 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), JD JUNCTION BOXES (B-21), JD SERVICE ENCLOSURES (B-24), 10" BURIED WIRE ENCLOSURES (B-26) PADS AS PER GRU REQUIREMENTS. PAGES NOTED IN PARENTHESIS ARE FOUND IN GRU ED SERVICE GUIDE APPENDICES.
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. PROVIDE INSULATED GROUNDING CONDUCTOR FROM EACH EQUIPMENT CONNECTION AND OUTLET TO GROUNDING BAR IN PANELBOARDS.
5. PROVIDE AN INSULATED GROUNDING CONDUCTOR IN ALL FEEDER AND BRANCH CIRCUITS.
6. CONTRACTOR SHALL PROVIDE ADDITIONAL JUNCTION BOXES, CONDUCTORS AND OTHER MATERIALS AND LABOR NECESSARY TO CONNECT PARALLEL OR OVERSIZED FEEDER RUNS WHERE SUCH FEEDERS EXCEED CONNECTION CAPACITY OF CIRCUIT BREAKERS, PANELBOARDS AND OTHER CONNECTION POINTS.
7. 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. ANY SUBSTITUTIONS MUST BE APPROVED PRIOR TO SUBMITTING BID.
14. 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.

ELECTRICAL LEGEND

- S13 SPORTS LIGHTING POLE AND FIXTURES. "S13" INDICATES POLE IDENTIFIER. FOR HEIGHT OF POLE AND NUMBER FIXTURES REFER TO POLE SCHEDULE
- A PARKING LUMINAIRE AND POLE. "A" INDICATES TYPE LUMINAIRE AND POLE.
- UJB UNDERGROUND DISTRIBUTION JUNCTION BOX FOR GRU PRIMARY CABLE.
- SE SERVICE ENCLOSURE - JUNCTION BOX FOR GRU SECONDARY CABLE
- BWE 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.
- GN DUPLEX RECEPTACLE OUTLET WITH GROUND FAULT INTERRUPTING 18"A.F.F. - NEMA 5-20R
- E EQUIPMENT CONNECTION OUTLET - VERIFY LOCATION
- J JUNCTION BOX
- S SINGLE POLE SWITCH 48"A.F.F. OR AS INDICATED
- T TRANSFORMER
- M METER
- L1 BRANCH CIRCUIT PANELBOARD, "L1" IS PANEL IDENTIFIER
- S SAFETY SWITCH - RATING AND FUSING AS INDICATED
- UTILITY TRANSFORMER
- L1-1,3 HOMERUN TO PANELBOARD, "L1" INDICATES THE PANELBOARD NUMBER. "1,3" INDICATES THE BRANCH CIRCUIT NUMBERS.
- C CONDUIT STUB-UP

LIGHTING FIXTURE SCHEDULE

TYPE	VOLTAGE	DESCRIPTION
A	120V	COBRAHEAD, FULL CUTOFF, 140-155W HPS, TYPE 3 DISTRIBUTION STREET LIGHT ON 35' CONCRETE POLE. 30' MOUNTING HEIGHT, 10' ARM GRU RENTAL LIGHT AND POLE. SEE SHEET P1.
	240V	SPORTS LIGHTING - BASIS OF DESIGN NGU EPHEBUS LIGHTING SYSTEM - REFER TO SPORTS LIGHTING SPECIFICATION DOCUMENT FOR DETAILS.

ELECTRICAL ABBREVIATIONS

A	AMPS	HOA	HAND-OFF-AUTOMATIC
AICS	AMPS INTERRUPTING CAPACITY SYMMETRICAL	K	KILO
BKR	BREAKER	LTG	LIGHTING
C	CONDUIT	MTD	MOUNTED
CKT	CIRCUIT	NEC	NATIONAL ELECTRICAL CODE
GRU	GAINESVILLE REGIONAL UTILITIES	NO	NORMALLY OPEN CONTACTS
CU	COPPER	NC	NORMALLY CLOSED CONTACTS
EX	EXISTING TO REMAIN	OHE	OVERHEAD ELECTRIC
F	FUSE	OHP	OVERHEAD PRIMARY
FC	FOOT CANDLES	P	POLE
GFI	GROUND FAULT INTERRUPTER	PWR	POWER
GRD	GROUND	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

GENERAL SPECIFICATIONS FOR SPORTS LIGHTING SYSTEM

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 EPHEBUS 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 EPHEBUS LUMASPORT 8, 240V RATED. REFER TO NGU PLAN FOR TYPE AND QUANTITIES.
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 LIGHTING 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.

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

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Alachua, Florida 32615
(352) 331-1976
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est. 1988 FLORIDA
CA-5075

CHW
Professional Consultants

1"=20'
VERIFY SCALE ON
BARS DRAWING ON
ORIGINAL DRAWING
0
DO NOT SCALE DRAWING
THIS SHEET, ADJUST
SCALES ACCORDINGLY.

CONSTRUCTION (B) REVISIONS

REVISIONS
03/11/20 VOLLEYBALL LIGHTING ADDED

CLIENT: CAUSSEAU, HEWITT, & WALPOLE, INC.
ENGINEERING - SURVEYING - PLANNING
PROJECT: FOREST PARK
SPORTS LIGHTING
SHEET TITLE: SPECIFICATIONS AND LEGEND
PROJECT NUMBER: 00-0000

DESIGNER:
QUALITY CONTROL:
PROJECT NUMBER: 00-0000

SHEET NO.:
P5

Project	Catalog #	Type
Prepared by	Notes	Date



Ephesus LUMASPORT 8

White LED Sports & Entertainment Luminaire

Typical Applications
Pro Arenas • University & Collegiate Arenas • University & Collegiate Stadiums • Multi-Event & Convention Centers • Gymnasiums & Field Houses

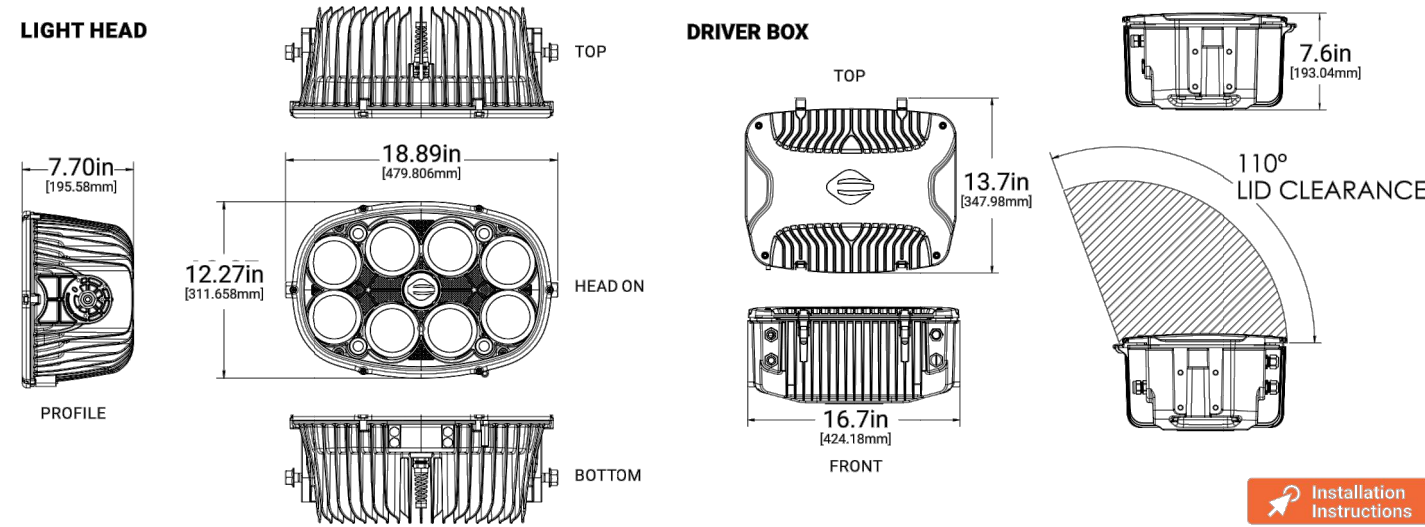
Product Certification



Top Product Features

- 55,000 or 90,000 lumen output options
- Glare and cutoff control via Hybrid Reflector and TIR Optical System
- Reduce install time with pre-aimable two-piece assembly
- Virtually eliminate maintenance with power redundancy
- Industry leading light source reliability with Chip-on-Board LEDs
- Greater than 92% lumen maintenance at 55,000 hours
- Wired DMX or Wireless AirMesh controls options to suit your needs

Dimensional Details



TD528018EN page 1
December 2, 2020 9:59 AM

SPORTS LIGHTING FIXTURE

REFER TO NGU PLAN FOR MODEL NUMBERS



TD528018EN page 2
December 2, 2020 9:59 AM

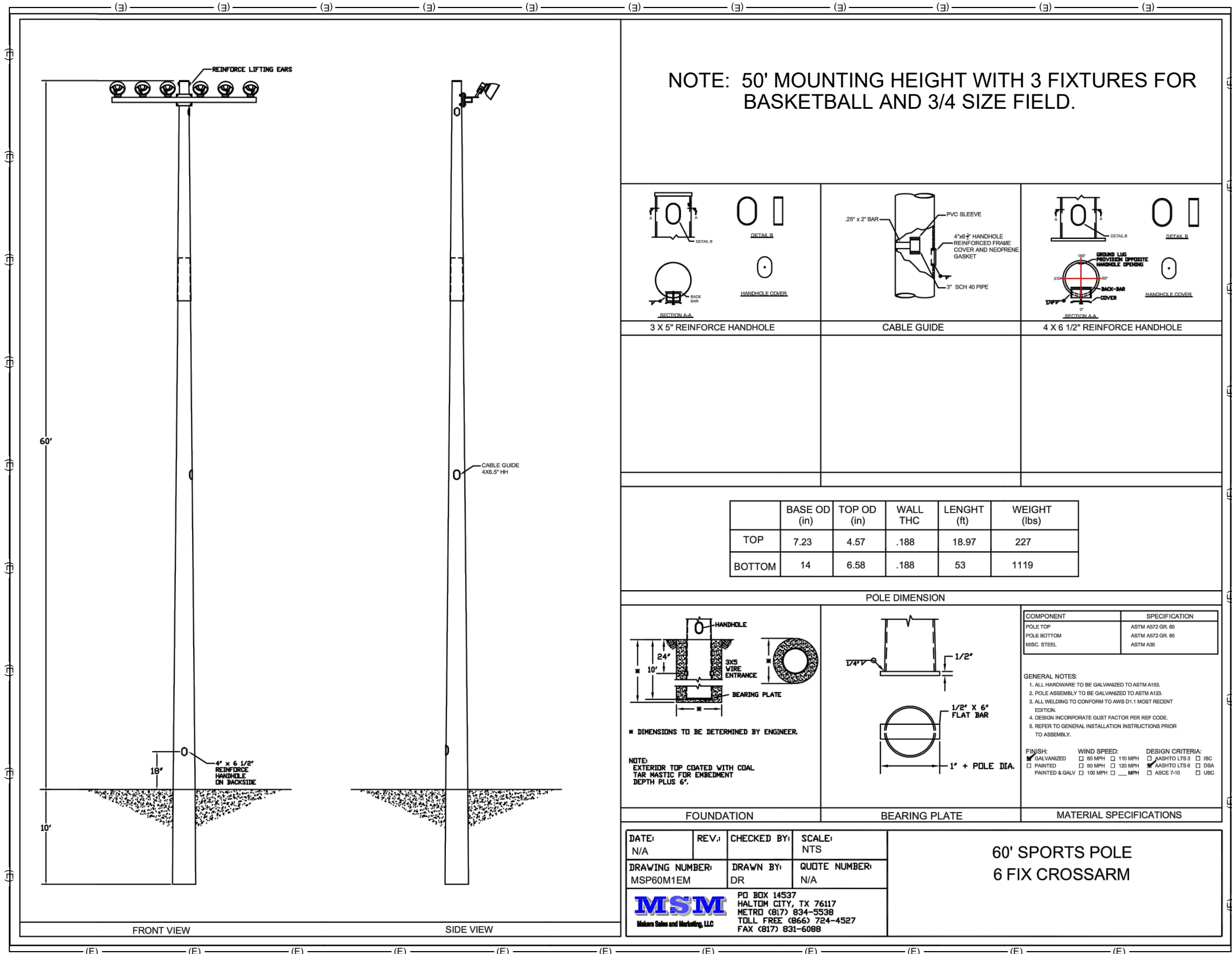
LUMASPORT 8

Order Information

NOTE: A complete fixture order requires a selection entry for **Brand, Family, Model, Power Configuration, Color, CCT, CRI, Optic, Light Head Cable (DC), Voltage, Control, Mount Configuration, Power Cable (AC), Options, Packaging, & International Option**.
SAMPLE ORDER NUMBER: EPH-LS-08-0320L-BLK-40-70-1S-C04-HV-LB-LY-A00-HEG-BP-ST

Brand	Family	Model	Power Configuration	Color	CCT	CRI	Optic	Light Head Cable (DC)
Brand	Family	Model	Power Configuration	Color	CCT	CRI	Optic	Light Head Cable (DC)
EPH - Ephesus	LS - Lumaspport	08 - 8 Optics	0320L - 320W Local Power 0400K - 4000K 5400K - 5400K 5700K - 5700K	BLK - Black WHI - White	40 - 4000K 50 - 5000K 57 - 5700K	70 - 70 CRI 80 - 80 CRI	15 - NEMA 3 17.5 33.5 25 - NEMA 3 21.9 40.2 35 - NEMA 3 25.4 45.7 45 - NEMA 4 26.0 44.4 55 - NEMA 5 26.0 44.4 70 - NEMA 7 22.5 131.0	C04 - 4ft Cable, Standard C10 - 10ft Cable, Catwalk
			Notes:					
			(1) Local Power means that the light head is attached to the driver box with the pin or pendant mount.					
			(2) Not coastal rated. Contact Ephesus for coastal fixture options.					
			(3) Optic = NEMA TYPE, BEAM ANGLE, FIELD ANGLE. Additional optical performance data within spec sheet.					
			(4) DC Cable connecting the light head to the driver box.					

Voltage	Control	Mount Configuration	Power Cable (AC)	Options	Packaging	International Option
LV = Low Voltage HV = High Voltage	AM = Wireless AirMesh LB = Wired DMX NC = No Control	LY = Local Yoke LP = Local Pendant	A00 = Standard, No Cable A04 = 4ft Cable A10 = 10ft Cable A15 = 15ft Cable	HEB = No Visor High Efficiency Glass Lens VHE = Visor High Efficiency Glass Lens	BP = Bulk Pack UP = Unit Packaging	ST = Standard
			Notes:			
			(5) AC Cable connecting the driver box to the electrical power source.			



SOCCER FIELD POLE EXAMPLE

DO NOT USE FOR POLE SIZING FOR WIND LOADING

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

SEAL

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est. 1988 FLORIDA
CA-5075

CHW
Professional Consultants

SCALE: 1"=20'
KEY: SCALE BASE DIMENSIONS ON ORIGINAL DRAWING
0 INCHES MAXIMUM THIS SHEET, ADJUST SCALES ACCORDINGLY.

CONSTRUCTION/REVISIONS

CLIENT: CAUSSEAU, HEWITT, & WALPOLE, INC.
ENGINEERING - SURVEYING - PLANNING
PROJECT: FOREST PARK SPORTSLIGHTING
SHEET TITLE: SPORTS LIGHTING CUTSHEETS
PROJECT NUMBER: 00-0000

DATE: 03/11/20
DRAWING NUMBER: N/A
DRAWN BY: N/A
CHECKED BY: N/A
SCALE: N/A
QUOTE NUMBER: N/A
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REV: 1147
REV: 1148
REV: 1149
REV: 1150
REV: 1151
REV: 1152
REV: 1153
REV: 1154
REV: 1155
REV: 1156
REV: 1157
REV