OWNER

NARCOOSSEE ACQUISITIONS, LLC 130 S. ORANGE AVENUE, SUITE 300 **ORLANDO, FLORIDA 32801** PHONE: (407) 425-6623



CONSTRUCTION PLANS FOR **ARBY'S** SITE DEVELOPMENT **8132 LEE VISTA BOULEVARD, ORLANDO, FLORIDA 32829** PARCEL ID NO.: 25-23-30-9002-00-020

SURVEYOR

HLSM, LLC PROFESSIONAL SURVEYORS & MAPPERS 794 BIG TREE DRIVE; SUITE 108 LONGWOOD, FLORIDA 32750 PHONE: (407) 647-7346 ATTN: WILLIAM F. MENARD, PLS

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PREPARED FOR NARCOOSSEE **ACQUISITIONS, LLC**

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MEI PROJECT NO.: 101019L **DATE:** 4/6/2018 **REVISED: 6/4/2018**

TITL **COVER S** DEMOLIT SITE GEO PAVING, WATER A **FIRE TRU** MISCELL WATER D BOUNDA

ARCHITECT

ELEVEN 18 ARCHITECTURE, INC. 424 E. CENTRAL BLVD., SUITE 542 **ORLANDO, FLORIDA 32801** PHONE: (407) 745-5300

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DANIEL L. MORRIS, PE 3558

CLEARING AND SITE PREPARATION NOTES DEMOLITION NOTES . CONTRACTOR SHALL CLEAR AND GRUB ONLY THOSE PORTIONS OF THE SITE 1. CONTRACTOR SHALL OBTAIN AND SECURE ALL NECESSARY PERMITS AND 1. DURING THE CONSTRUCTION AND/OR MAINTENANCE OF THIS NECESSARY FOR CONSTRUCTION. DISTURBED AREAS WILL BE SEEDED, MULCHED, APPROVALS FROM GOVERNING AUTHORITIES FOR PROPER REMOVAL AND PROJECT, ALL SAFETY REGULATIONS ARE TO BE ENFORCED. THE SODDED. OR PLANTED WITH OTHER APPROVED LANDSCAPE MATERIAL. 2. ALL CONSTRUCTION DEBRIS AND OTHER WASTE MATERIAL SHALL BE DISPOSED ALSO INCLUDE THE DISCONNECTION OF EXISTING UTILITIES WHETHER TEMPORARY OF OFF-SITE IN ACCORDANCE WITH APPLICABLE REGULATORY AGENCY OR PERMANENT. CONTRACTOR SHALL FURNISH A COPY OF ALL NECESSARY PERMITS REQUIREMENTS 3. THE CONTRACTOR IS TO REMOVE ALL PAVING MARKED FOR DEMOLITION WHICH 2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CLEARLY DESIGNATE THE INCLUDES BUT IS NOT LIMITED TO ALL ASPHALT, CONCRETE, BASE, AND RETAINING LIMITS OF CONSTRUCTION ON-SITE. THE CONTRACTOR SHALL NOT PERFORM ANY WALLS (INCLUDING FOOTERS) THE CONTRACTOR SHALL SAW-CUT A SMOOTH STRAIGHT EDGE ON ANY 3. PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY PAVEMENT PROPOSED FOR DEMOLITION PRIOR TO ITS REMOVAL. PRIOR TO ALL UTILITY COMPANIES, OR LOCAL AUTHORITIES, FURNISHING GAS, WATER. CONNECTING PROPOSED PAVEMENT TO EXISTING PAVEMENT, THE CONTRACTOR ELECTRICAL, TELEPHONE, SEWER SERVICE, ETC. TO ALLOW THEM TO REMOVE, SHALL ENSURE THAT THE EDGE OF THE EXISTING PAVEMENT IS STRAIGHT AND RELOCATE, DISCONNECT, CAP OR PLUG THEIR SERVICES TO FACILITATE DEMOLITION. UNIFORM. 5. THE CONTRACTOR SHALL REMOVE ALL UNSALVAGEABLE MATERIALS, ORGANIC ABOVE OR BELOW GROUND, SHOWN ON THESE PLANS AND ALL OTHER UTILITIES AND 4. ALL TRAFFIC CONTROL MARKINGS AND DEVICES SHALL MATERIAL, AND YARD WASTE FROM THE SITE IMMEDIATELY, AND DISPOSE IN OTHER IMPROVEMENTS NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE CONFORM TO THE PROVISIONS SET FORTH IN THE "MANUAL ON ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS. EROSION AND SEDIMENT CONTROL NOTES 1. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS IN ADDITION TO ALL REGULATIONS CONTROLLING POLLUTION OF THE ENVIRONMENT 2. THE CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR MAINTAINING THE EROSION AND SEDIMENTATION CONTROL MEASURES NECESSARY TO PREVENT SEDIMENTATION FROM DISCHARGING TO ADJACENT PROPERTIES, WETLANDS, ETC.. ANY STOP WORK ORDERS, FINES, ETC. THAT ARE IMPOSED ON THE PROJECT DUE TO E DISCHARGING OF SILT AND/OR SEDIMENTATION TO ADJACENT PROPERTIES, WETLANDS, ETC. SHALL BE FULLY BOURNE BY THE CONTRACTOR. EROSION AND SILTATION CONTROL MEASURES ARE TO BE PROVIDED AND INSTALLED PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE MEASURES SHOWN HEREON ARE THE MINIMUM REQUIRED AND ADDITIONAL MEASURES MAY BE REQUIRED. AT NO TIME SHALL THE MEASURES BE IN SUCH DISREPAIR THAT THEY ALLOW THE DISCHARGE OF SEDIMENTATION OR SILT FROM THE PROJECT ONTO ADJACENT PROPERTIES, WETLANDS, ETC., THESE MEASURES ARE TO BE INSPECTED BY THE CONTRACTOR ON A DAILY BASIS. THE MEASURES ARE TO BE MAINTAINED AND/OR REPAIRED ON AN IMMEDIATE BASIS AS REQUIRED. 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROJECT COMPLYING WITH APPLICABLE STATE WATER QUALITY STANDARDS DURING CONSTRUCTION AS 8. TREE PROTECTION BARRICADES OR EQUIVALENT PROTECTIVE MEASURES WILL BE ** INFO PROVIDED BY PROVIDED BY HLSM, LLC SPECIFIED IN THE PERMITS. ALL WATER AND WIND EROSION SHALL BE MINIMIZED AS DEFINED IN THE SPECIFICATIONS AND PERMITS. THE SPECIFICATIONS PROVIDE ONLY A MINIMUM REQUIREMENT FOR EROSION AND SEDIMENTATION CONTROL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT CONTROL MEASURES NOT SHOWN IN SPECIFICATIONS. ALL COSTS ASSOCIATED WITH TURBIDITY CONTROL AND SEDIMENT STABILIZATION SHALL BE BORNE BY THE CONTRACTOR. 4. THE LIMITS OF CONSTRUCTION HAVE BEEN PROVIDED TO THE CONTRACTOR ON THE CONSTRUCTION PLANS. UNLESS OTHERWISE DIRECTED BY THE OWNER, THE OF EACH IMPACTED TREE BY A QUALIFIED ARBORIST OR AT THE DIRECTION OF THE CONTRACTOR IS EXPECTED TO CONTAIN ALL CONSTRUCTION ACTIVITIES TO BE WITHIN THESE LIMITS. AT NO TIME SHALL THE CONTRACTOR DISTURB OR TRAVEL CONSTRUCTION. ON SURROUNDING PROPERTIES WITHOUT WRITTEN CONSENT FROM THE PROPERTY OWNER(S). ANY REPAIR OR RECONSTRUCTION OF DAMAGED AREAS ON 10. THE CONTRACTOR SHALL BE SUBJECT TO ANY FINES IMPOSED BY THE OWNERS SURROUNDING PROPERTIES SHALL BE REPAIRED BY THE CONTRACTOR ON AN AND / OR THE GOVERNING AGENCIES FOR THE REMOVAL OF ANY TREE THAT IS IMMEDIATE BASIS. ALL COSTS FOR REPAIRS SHALL BE BORNE BY THE SHOWN WITHIN THESE CONSTRUCTION DOCUMENTS TO BE SAVED. CONTRACTOR AND NO EXTRA COMPENSATION SHALL BE PROVIDED. 5. THE OWNER AND/OR CONTRACTOR SHALL PROVIDE A NOTICE-OF-INTENT IN ACCORDANCE WITH CRITERIA SET FORTH IN THE NPDES PERMIT REQUIREMENTS 48-HOURS PRIOR TO BEGINNING CONSTRUCTION, CLEARING, OR DEMOLITION. 6. CONTRACTOR SHALL PROVIDE EFFECTIVE TEMPORARY AND PERMANENT EROSION CONTROL FOLLOWING THE REQUIREMENTS IN SECTION-104 OF THE STATE DEPT. OF TRANSPORTATION STANDARDS SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION. 7. AT THE END OF EACH DAY, THE CONTRACTOR SHALL HAVE THE SITE GRADED IN SUCH A WAY AS TO NOT CAUSE ANY ADVERSE IMPACT FROM RUNOFF OR SILTATION SECTIONS 6901 ET SEQ.), OR (C) WHICH IS TOXIC, EXPLOSIVE, CORROSIVE, TO ANY ADJACENT PROPERTIES. SILTATION BARRIERS SHALL BE MAINTAINED AND FLAMMABLE, INFECTIOUS, RADIOACTIVE, CARCINOGENIC, MUTAGENIC, OR NOTE REPAIRED. IF REQUIRED, AT THE END OF THE WORKING DAY. 3. INLETS AND CATCH BASINS SHALL BE PROTECTED FROM SEDIMENTATION THE UNITED STATES, THE STATE IN WHICH THE PREMISES ARE LOCATED OR ANY SULTING FROM SURFACE RUNOFF UNTIL COMPLETION OF ALL CONSTRUCTION POLITICAL SUBDIVISION THEREOF OR (D) THE PRESENCE OF WHICH ON THE OPERATIONS THAT MAY CAUSE SEDIMENT RUNOFF. FILTER FABRIC SHALL BE PREMISES CAUSES OR THREATENS TO CAUSE A NUISANCE UPON THE PREMISES OR ACTIVITY TO ORIGINAL CONDITIONS. A PLACED AND MAINTAINED UNDER THE GRATE, AND FILTER SOCKS PLACED IN FRONT OF THE THROAT OF CURB INLETS DURING CONSTRUCTION. D. THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO CONTROL TURBIDITY INCLUDING, BUT NOT LIMITED TO, THE INSTALLATION OF TURBIDITY BARRIERS AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSFERRING SUSPENDED SOLIDS INTO THE RECEIVING WATER BODY EXISTS DUE TO THE PROPOSED WORK. TURBIDITY BARRIERS MUST BE MAINTAINED AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND DISTURBED SOIL AREAS ARE STABILIZED. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REMOVING THE BARRIERS UPON COMPLETION OF CONSTRUCTION. AT NO TIME SHALL THERE BE ANY OFF-SITE DISCHARGE WHICH VIOLATES THE WATER QUALITY STANDARDS IN CHAPTERS 62 -302 AND 62 - 4. FLORIDA ADMINISTRATIVE CODE. 10. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SILT FROM SITE IF NOT REUSABLE ON-SITE AND ASSURING PLAN ALIGNMENT AND GRADE IN ALL DITCHES AND SWALES AT COMPLETION OF CONSTRUCTION. 11. CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC. ARE CLEANED OUT AND WORKING PROPERLY AT THE TIME OF ACCEPTANCE. 12. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER EROSION AND SEDIMENT CONTROL DEVICE IS REMOVED AND NO LONGER REQUIRED, SHALL BE DRESSED TO CONFORM TO THE EXIST. GRADE, PREPARED, AND SEEDED. 13. THE CONTRACTOR MUST INSTALL AND MAINTAIN GRASS, SEED AND MULCH, OR SOD ON EXPOSED SLOPES WITHIN 48 HOURS OF COMPLETED FINAL GRADES, AND AT ANY OTHER TIME AS NECESSARY TO PREVENT EROSION. SEDIMENTATION OR TURBID DISCHARGES TO ANY DOWNSTREAM WATER BODY, WETLAND, OR OFF-SITE PROPERTY. SODDING ON SLOPES 3:1 AND STEEPER SHALL BE STAKED. 14. THE CONTRACTOR SHALL SEED AND MULCH ALL AREAS DISTURBED BY CONSTRUCTION UNLESS SODDING, OR OTHER MORE READILY EFFECTIVE STABILIZATION PRACTICES ARE SPECIFIED ON THE PLANS. 15. IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION THE 6. SHOULD CONTRACTOR OR ITS SUBCONTRACTORS DISCHARGE, RELEASE OR CONTRACTOR SHALL STABILIZE THE AFFECTED AREA USING SPRINKLING, **IRRIGATION, OR OTHER ACCEPTABLE METHODS.** 16. AFTER PERMANENT STABILIZATION OF ALL AREAS (BY SOD, PLANTING, PAVEMENT OR RIP-RAP) AND WITH APPROVAL BY OWNERS REPRESENTATIVE, CONTRACTOR WILL REMOVE ALL EROSION CONTROL MEASURES. ENVIRONMENT 17. CONTRACTOR SHALL DIRECT ALL STORMWATER RUNOFF FROM WITHIN THE LIMITS OF CONSTRUCTION TOWARDS THE STORMWATER MANAGEMENT AREA. 18. FOR ADDITIONAL INFORMATION ON EROSION AND SEDIMENT CONTROL, REFER TO "THE FLORIDA DEVELOPMENT MANUAL - A GUIDE TO SOUND LAND AND WATER REASONABLY BELIEVED TO BE A HAZARDOUS MATERIAL, CONTRACTOR SHALL MANAGEMENT" FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL **REGULATION (FDER), CHAPTER 6.** 19. SOD SHALL BE PLACED IN AREAS WHICH MAY REQUIRE IMMEDIATE EROSION PROTECTION TO ENSURE WATER QUALITY STANDARDS ARE MAINTAINED. 20. THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ALL DAMAGE AND ALL COSTS WHICH MAY RESULT FROM A WATER QUALITY VIOLATION INCLUDING BUT NOT LIMITED TO LEGAL FEES, CONSULTANT FEES, CONSTRUCTION COSTS, AND NOTICE OF NONCOMPLIANCE OR WITHIN THE TIME OF AN ABATEMENT PERIOD FINES. 21. ALL DISTURBED AREAS SHALL BE STABILIZED IN AN EFFORT TO MINIMIZE EROSION 22. THE CONTRACTOR SHALL DEVELOP AND IMPLEMENT A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) ACCORDING TO EPA/FDEP NPDES CRITERIA TO MINIMIZE EROSION AND INSURE PROPER FUNCTIONING OF STORMWATER MANAGEMENT SYSTEM UPON COMPLETION OF CONSTRUCTION. IN ADDITION TO MEETING EPA/FDEP NPDES CRITERIA THE SWPPP SHALL BE SUBMITTED TO AND COMPLY WITH THE LOCAL AGENCY HAVING JURISDICTION'S MINIMUM EROSION CONTROL CRITERIA.

DEMOLITION OF EXISTING IMPROVEMENTS INCLUDING, BUT NOT LIMITED TO SEPTIC CONTRACTOR OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE TANKS, DRAIN FIELDS, POTABLE WELLS, AND IRRIGATION WELLS. THIS EFFORT SHALL FOR THE CONTROL AND SAFETY OF THE TRAVELING PUBLIC AND AND APPROVALS TO THE OWNER PRIOR TO COMMENCING THE WORK.

WORK OUTSIDE THE LIMITS OF CONSTRUCTION.

4. THE CONTRACTOR SHALL PROTECT ALL UTILITIES AND OTHER IMPROVEMENTS, FOR THE PROMPT REPAIR OF ALL UTILITIES AND OTHER IMPROVEMENTS DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER, AND SHALL MAINTAIN SUFFICIENT PROTECTION TO ALL UTILITIES REQUIRED TO PROTECT THEM FROM DAMAGE AND TO PROTECT THE PUBLIC DURING CONSTRUCTION. CONTRACTOR SHALL HOLD AND SAVE THE OWNER HARMLESS AGAINST ALL CLAIMS AND DAMAGES. MEI CIVIL IS NOT RESPONSIBLE FOR ANY UNFORESEEN CONDITIONS AND / OR TO COMPLY AND ENFORCE ALL APPLICABLE SAFETY UNDERGROUND UTILITIES SHOWN, OR NOT SHOWN, HEREON.

5. IN AREAS REQUIRING FILL MATERIAL. THE CONTRACTOR SHALL STRIP OR IMPLY THAT THE OWNER OR ENGINEER WILL INSPECT AND/OR OTHERWISE REMOVE ALL VEGETATION SUCH AS BRUSH, HEAVY SODS, HEAVY ENFORCE SAFETY REGULATIONS. GROWTH OF GRASS. DECAYED VEGETATION MATTER. RUBBISH AND ANY OTHER DELETERIOUS MATERIAL BEFORE EMBANKMENT IS PLACED. IMMEDIATELY PRIOR TO 6. ALL SIGNS AND MARKINGS TO COMPLY WITH THE FDOT THE PLACING OF FILL MATERIAL, THE ENTIRE AREA UPON WHICH FILL IS TO BE ROADWAY AND TRAFFIC DESIGN STANDARDS, MANUAL OF PLACED, SHALL BE SCARIFIED IN A DIRECTION APPROXIMATELY PARALLEL TO THE UNIFORM TRAFFIC CONTROL DEVICES AND THE APPLICABLE AXIS OF FILL. THE GEOTECHNICAL ENGINEER SHALL APPROVE THE AREA PRIOR TO JURISDICTIONAL LAND DEVELOPMENT CODE. THE PLACEMENT OF FILL

6. THE CONTRACTOR SHALL BE EXTREMELY CAUTIOUS WHEN WORKING NEAR TREES THAT ARE TO BE SAVED, WHETHER SHOWN IN THE PLANS OR DESIGNATED IN THE FIELD. REFER TO THIS SHEET FOR TREES TO BE SAVED.

ALL PRACTICAL AND NECESSARY EFFORT SHALL BE TAKEN DURING CONSTRUCTION TO PREVENT UNNECESSARY TREE REMOVAL.

CONSTRUCTED ACCORDING TO THE LOCAL JURISDICTION'S CRITERIA FOR TREES TO PROFESSIONAL SURVEYORS & MAPPERS REMAIN WITHIN THE LIMITS OF CONSTRUCTION. NO CONSTRUCTION ACTIVITY, (JOB No: 1-151, DATED 3/14/18) EXCAVATION, OR FILL MAY TAKE PLACE WITHIN STAKED AREAS. ANY ROOT PRUNING ACTIVITIES SHALL BE SUPERVISED BY A LANDSCAPE ARCHITECT.

9. ANY PROPOSED CUT OR FILL MATERIAL TO BE REMOVED OR PLACED WITHIN THE DRIP LINE OF SPECIMEN TREES TO REMAIN, INCLUDING TRENCHING FOR PROPOSED IMPROVEMENTS SUCH AS UTILITIES, WILL REQUIRE THE ADVANCED PRE-TREATMENT LANDSCAPE ARCHITECT TO MINIMIZE THE POTENTIALLY ADVERSE IMPACTS OF

HAZARDOUS MATERIALS

1. HAZARDOUS MATERIAL MEANS ANY SUBSTANCE: (A) THE PRESENCE OF WHICH REQUIRES INVESTIGATION OR REMEDIATION UNDER ANY PRESENT FEDERAL. STATE OR LOCAL STATUTE. REGULATION. ORDINANCE. RULE. CODE. ORDER. ACTION. POLICY OR COMMON LAW, OR (B) WHICH IS OR BECOMES DEFINED AS A "HAZARDOUS WASTE," "HAZARDOUS SUBSTANCE," POLLUTANT OR CONTAMINANT UNDER ANY PRESENT FEDERAL. STATE OR LOCAL STATUTE. REGULATION. RULE OR ORDINANCE OR AMENDMENTS THERETO INCLUDING. WITHOUT LIMITATION. THE COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (42 U.S.C. SECTIONS 9601 ET SEQ.) AND/OR THE RESOURCE CONSERVATION AND RECOVERY ACT (42 U.S.C.

OTHERWISE HAZARDOUS AND IS REGULATED BY ANY GOVERNMENTAL AUTHORITY, AGENCY, DEPARTMENT, COMMISSION, BOARD, AGENCY OR INSTRUMENTALITY OF TO ADJACENT PROPERTIES OR POSES OR THREATENS TO POSE A HAZARD TO THE PRECONSTRUCTION VIDEO TAPING OF PRE / POST HEALTH OR SAFETY OF PERSONS ON OR ABOUT THE PREMISES. OR (E) WHICH CONTAINS GASOLINE, DIESEL FUEL OR OTHER PETROLEUM HYDROCARBONS, OR (F) WHICH CONTAINS POLYCHLORINATED BIPHENYLS (PCBS), ASBESTOS, LEAD OR UREA FORMALDEHYDE FOAM INSULATION.

2. CONTRACTOR AND ITS SUBCONTRACTORS SHALL USE, HANDLE, TRANSPORT, AND DISPOSE OF ALL HAZARDOUS MATERIALS (AS DEFINED HEREIN) IN COMPLIANCE WITH ALL PRESENT FEDERAL, STATE AND LOCAL ENVIRONMENTAL, HEALTH OR SAFETY LAW, INCLUDING, BUT NOT LIMITED TO, ALL SUCH STATUTES, REGULATIONS, RULES, ORDINANCES, CODES, AND RULES OF COMMON LAW.

3. CONTRACTOR FURTHER AGREES THAT CONTRACTOR AND ITS SUBCONTRACTORS SHALL NOT CAUSE THE DISCHARGE, RELEASE OR DISPOSAL OF ANY HAZARDOUS MATERIAL CREATED BY ITS WORK ON OR ABOUT THE JOB SITE. IN THE EVENT OF ANY SPILL, RELEASE OR ANY OTHER REPORTABLE OCCURRENCE, CONTRACTOR SHALL NOTIFY THE APPROPRIATE GOVERNMENTAL AGENCY AND SHALL TAKE SUCH ACTION AS MAY BE NECESSARY TO MINIMIZE THE DELETERIOUS EFFECT OF SUCH SPILL ON PERSONS OR PROPERTY

CONTRACTOR AND ITS SUBCONTRACTORS SHALL, UPON COMPLETION OF PERFORMANCE OF ALL DUTIES UNDER THIS CONTRACT. REMOVE ALL SUPPLIES. MATERIALS, AND WASTE CONTAINING ANY HAZARDOUS MATERIAL FROM THE JOB SITE. CONTRACTOR SHALL BEAR FULL FINANCIAL RESPONSIBILITY, AS BETWEEN THE PARTIES OF THIS CONTRACT. FOR THE COMPLIANCE OF CONTRACTOR AND ITS SUBCONTRACTORS WITH THE PROVISIONS AS OUTLINED HEREIN.

5. CONTRACTOR AGREES TO INDEMNIFY, DEFEND, PROTECT AND HOLD THE OWNER HARMLESS FROM AND AGAINST ANY CLAIMS INCLUDING. WITHOUT LIMITATION. ACTUAL ATTORNEY'S FEES AND ANY COSTS OF INVESTIGATION, SOILS TESTING, GOVERNMENTAL APPROVALS, REMEDIATION AND CLEANUP ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE FAILURE OF CONTRACTOR OR ITS SUBCONTRACTORS, OR THEIR AGENTS, EMPLOYEES, OFFICERS, OR REPRESENTATIVES, TO COMPLY WITH THE TERMS AS DESCRIBED HEREIN.

DISPOSE OF ANY HAZARDOUS MATERIAL ON OR ABOUT THE JOB SITE IN VIOLATION OF THIS PARAGRAPH. CONTRACTOR SHALL IMMEDIATELY INFORM THE OWNER IN WRITING. IN THE EVENT OF ANY SPILL, RELEASE OR ANY OTHER REPORTABLE OCCURRENCE, CONTRACTOR SHALL NOTIFY THE APPROPRIATE GOVERNMENTAL AGENCY(S) AND SHALL TAKE SUCH ACTION AS MAY BE NECESSARY TO MINIMIZE THE DELETERIOUS EFFECT OF SUCH SPILL ON PERSONS, PROPERTY OR THE

7. IN THE EVENT CONTRACTOR OR ITS SUBCONTRACTORS ENCOUNTER ON THE PREMISES ANY PIPELINE, UNDERGROUND STORAGE TANK OR OTHER CONTAINER, OF ANY KIND, THAT MAY CONTAIN A HAZARDOUS MATERIAL, OR ENCOUNTER MATERIAL IMMEDIATELY STOP WORK IN THE AREA AFFECTED AND REPORT THE CONDITION TO THE OWNER IN WRITING.

8. IF CONTRACTOR OR ITS SUBCONTRACTORS DO NOT COMPLY WITH THE REQUIREMENTS AS OUTLINED HEREIN, OWNER MAY, BUT IS NOT OBLIGATED TO, GIVE WRITTEN NOTICE OF VIOLATION TO CONTRACTOR. SHOULD CONTRACTOR OR ITS SUBCONTRACTORS FAIL TO COMPLY WITH THE REQUIREMENTS OF THE PARAGRAPH WITHIN TWENTY-FOUR (24) HOURS FROM THE TIME OWNER ISSUES SUCH WRITTEN SPECIFIED BY ANY GOVERNMENTAL AGENCY, WHICHEVER PERIOD IS SHORTER, CONTRACTOR SHALL BE IN MATERIAL DEFAULT OF THIS CONTRACT.

9. ALL AREAS USED FOR FUEL STORAGE SHALL HAVE THE PROPERTY OWNER'S PRIOR APPROVAL AND APPROPRIATE MEASURES SHALL BE TAKEN TO INSURE PROTECTION OF GROUNDWATER AND SOIL RESOURCES.

23. DAILY INSPECTIONS SHALL BE MADE BY THE CONTRACTOR TO DETERMINE THE EFFECTIVENESS OF EROSION/SEDIMENT CONTROL EFFORTS. ANY REMEDIES SHALL BE PERFORMED IMMEDIATELY.

CONTRACTOR SHALL RESTORE ANY ADJOINING PROPERTY THAT MAY BE DAMAGED DUE TO HIS **CONSTRUCTION CONDITIONS IS ADVISED.**

SAFETY NOTES

THE SAFETY OF HIS PERSONNEL.

LABOR SAFETY REGULATIONS SHALL CONFORM TO THE PROVISIONS SET FORTH BY OSHA IN THE FEDERAL REGISTER OF THE DEPARTMENT OF TRANSPORTATION.

3. THE MINIMUM STANDARDS AS SET FORTH IN THE CURRENT EDITION OF THE STATE OF FLORIDA, "ROADWAY AND TRAFFIC DESIGN STANDARDS" SHALL BE FOLLOWED IN THE DESIGN APPLICATION, INSTALLATION, MAINTENANCE AND REMOVAL OF ALL TRAFFIC CONTROL DEVICES WARNING DEVICES AND BARRIERS NECESSARY TO PROTECT THE PUBLIC AND WORKMEN FROM HAZARDS WITHIN THE PROJECT.

UNIFORM TRAFFIC CONTROL DEVICES" PREPARED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.

5. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR REGULATIONS. THE ABOVE INFORMATION HAS BEEN PROVIDED FOR THE CONTRACTOR'S INFORMATION ONLY AND DOES NOT

BENCHMARK NOTES

SITE BENCHMARK # SET %" IRON ROD

LB #7807 ELEVATION = 90.21 (NAVD)

	LEGEND
	PROPERTY BOUNDARY
	GENERAL LIMITS OF DEMOLITION / DEVELOPMENT
	CONSTRUCTION ENTRANCE
	SEDIMENT FILTER AROUND EACH INLET STRUCTURE
—x—	SILT-FENCE



THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY -DANIEL L. MORRIS, PE ON 6/4/2018 USING A DIGITAL SIGNATURE.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

GENERAL NOTES

ALL DIMENSIONS ARE TO EDGE OF PAVEMENT UNLESS OTHERWISE SHOWN ON PLANS.

2. CONTRACTOR SHALL NOT SCALE PLAN, BUT SHALL REFER TO BOUNDARY AND TOPOGRAPHIC SURVEY PROVIDED BY HLSM, LLC PROFESSIONAL SURVEYORS & MAPPERS (JOB No: 1-151, DATED 3/14/18) FOR ALL HORIZONTAL LINE DIMENSIONS.

3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND APPROPRIATE AGENCIES AT LEAST 3 WORKING DAYS PRIOR TO CONSTRUCTION AND SUPPLY THEM WITH THE CONTRACTOR'S NAME, STARTING DATE, PROJECTED CONSTRUCTION SCHEDULE, ALL REQUIRED SHOP DRAWINGS AND OTHER INFORMATION AS REQUIRED. ANY WORK PERFORMED PRIOR TO NOTIFYING THE ENGINEER MAY BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE

4. THE CONTRACTOR SHALL COORDINATE AND SCHEDULE HIS ACTIVITIES, AS NECESSARY, TO INTERFACE SMOOTHLY WITH WORK BEING PERFORMED ON SITE BY OTHER CONTRACTORS AND UTILITY COMPANIES.

5. THE CONTRACTOR SHALL CHECK PLANS FOR CONFLICTS AND DISCREPANCIES PRIOR TO CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OF ANY CONFLICT BEFORE PERFORMING ANY WORK IN THE AFFECTED AREA.

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 CALLED FOR IN THIS CONTRACT.

7. ALL SPECIFICATIONS AND DOCUMENTS REFERRED TO SHALL BE OF LATEST REVISION.

8. ALL WORK PERFORMED SHALL COMPLY WITH THE REGULATIONS AND ORDINANCES OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK.

9. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL REQUIRED PERMITS ARE OBTAINED AND IN HAND BEFORE BEGINNING ANY CONSTRUCTION. NO CONSTRUCTION OR FABRICATION OF ANY ITEM SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED ALL PLANS AND ANY OTHER DOCUMENTATION FROM ALL OF THE PERMITTING AND REGULATORY AUTHORITIES. ANY PENALTIES, STOP WORK ORDERS OR ADDITIONAL WORK RESULTING FROM THE CONTRACTOR BEING IN VIOLATION OF THE REQUIREMENTS ABOVE SHALL BE FULLY BORNE BY THE CONTRACTOR.

10. THE CONTRACTOR SHALL NOTIFY SUNSHINE LOCATORS FORTY-EIGHT (48) HOURS PRIOR TO BEGINNING CONSTRUCTION AT 1-800-432-4770, MONDAY THROUGH FRIDAY 7:00 AM TO 4:30 PM. CHAPTER 553 - 851 OF THE FLORIDA STATUTES REQUIRES THAT AN EXCAVATOR NOTIFY ALL GAS UTILITIES A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO EXCAVATING. THE DRAWINGS SHOW ONLY THE APPROXIMATE LOCATION OF GAS MAINS (IF ANY) AND DO NOT SHOW SERVICE LINES.

11. PRIOR TO BID PREPARATION, THE CONTRACTOR MUST BECOME FAMILIAR WITH THE OVERALL SITE CONDITIONS AND PERFORM ADDITIONAL INVESTIGATIONS AS DETERMINED NECESSARY TO UNDERSTAND THE LIMIT AND DEPTH OF EXPECTED ORGANIC SILT PEAT AREAS, ADEQUACY OF EXISTING MATERIALS AS FILL, DEWATERING REQUIREMENTS, CLEAN FILL REQUIRED FROM OFF-SITE AND MATERIALS TO BE DISPOSED OF OFF-SITE, ALL OF WHICH WILL AFFECT HIS PRICING ANY DELAY INCONVENIENCE OR EXPENSE CAUSED TO THE CONTRACTOR DUE TO INADEQUATE INVESTIGATION OF EXISTING CONDITIONS SHALL BE INCIDENTAL TO THE CONTRACT, AND NO EXTRA COMPENSATION WILL BE ALLOWED. THE MATERIALS ANTICIPATED TO BE ENCOUNTERED DURING CONSTRUCTION MAY REQUIRE DRYING PRIOR TO USE AS BACKFILL, AND THE CONTRACTOR MAY HAVE TO IMPORT MATERIALS, AT NO EXTRA COST, FROM OFF-SITE TO MEET THE REQUIREMENTS FOR COMPACTION AND PROPER FILL.

2. THE CONTRACTOR SHALL NOTIFY THE OWNER WHEN ALL WORK IS LAID OUT (SURVEY STAKED), SO THAT A DETERMINATION MAY BE MADE OF SPECIFIC TREES TO BE REMOVED.

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING ANY CONSTRUCTION ACTIVITIES FROM TAKING PLACE OUTSIDE OF THE LIMITS OF CONSTRUCTION SHOWN ON THE PLANS. ANY ON-SITE OR OFF-SITE AREAS DISTURBED SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER ALL ON-SITE AREAS DISTURBED BY THE CONSTRUCTION SHALL BE STABILIZED WITH SOD (BAHIA), UNLESS OTHERWISE NOTED. ALL OFF-SITE AREAS DISTURBED BY CONSTRUCTION SHALL BE REPLACED IN KIND, AT A MINIMUM, ALL PERVIOUS OFF-SITE AREAS DISTURBED BY CONSTRUCTION SHALL **BE SODDED WITH BAHIA.**

SITE DATA

ARBY'S

NAME OF DEVELOPMENT

PARCEL ID. NO.-

25-23-30-9002-00-020

CURRENT ZONING-PD / AN

SITE DESCRIPTION-

- VEGETATION: THE MAJORITY OF THE SITE IS CLEARED AND FINISHED WITH GRASSES.
- JURISDICTIONAL LANDS: N/A WITHIN PROJECT AREA. DRAINAGE: STORMWATER CONNECTION PROVIDED TO EXIST. INLETS. WATER QUALITY TREATMENT AND ATTENUATION / RETENTION PROVIDED BY MASTER STORMWATER PERMIT.
- PROPOSED DEVELOPMENT-TYPE OF CONSTRUCTION - CONSTRUCTION OF APPROX. 6,200-SF OF COMMERCIAL RETAIL WITH ASSOCIATED PARKING, DRIVE AISLES, LANDSCAPE ISLANDS AND DRIVEWAY CONNECTION TO A PRIVATE ROAD
- FAR = 11.7% ISR = 73.2%
- DATA SUMMARY
- NUMBER OF ANTICIPATED PHASES = 1
- NUMBER OF BUILDINGS = 1 TOTAL SITE AREA = 1.39-AC
- TOTAL PROJECT AREA = 1.22-AC NUMBER OF PROPOSED PARKING SPACES = 48 SPACES (INC. 3 HC) TOTAL IMPERVIOUS AREA = 73.2% (0.893-AC)
- BLDG. COVERAGE = 11.7% (0.142-AC) VEHICLE USE AREA = 56.4% (0.688-AC)
- SIDEWALKS / CONC. = 5.1% (0.063-AC) OPEN SPACE (LANDSCAPE AREA) = 26.8% (0.327-AC)

14. THE CONTRACTOR SHALL MAINTAIN A CURRENT SET OF CONSTRUCTION PLANS AND ALL PERMITS ON THE JOB SITE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ONE SET OF AS-BUILT DRAWINGS TO THE ENGINEER OF RECORD AND ONE SET TO THE OWNER ONE WEEK AFTER COMPLETING CONSTRUCTION .

15. ALL CONTRACTORS, MUNICIPALITY REPRESENTATIVES, AND UTILITY COMPANIES ARE RESPONSIBLE FOR THEIR RESPECTIVE SURVEYING AND LAYOUT FROM BENCHMARK PROVIDED ON CONSTRUCTION PLANS. ANY SURVEY MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE REPLACED UPON COMPLETION OF THE WORK BY A REGISTERED LAND SURVEYOR. THE COST FOR REPLACEMENT OF THE MONUMENTATION SHALL BE BORNE BY THE COMPANY RESPONSIBLE FOR DISTURBING SAID MONUMENTATION.

16. ALL LABOR, MATERIALS, AND METHODS OF CONSTRUCTION SHALL BE PERFORMED IN A WORKMAN LIKE MANNER AND IN STRICT ACCORDANCE WITH THE MINIMUM ENGINEERING AND CONSTRUCTION STANDARDS ADOPTED BY THE MUNICIPALITY, THE PLANS. AND CONSTRUCTION SPECIFICATIONS. WHERE CONFLICTS OR OMISSIONS EXIST. THE MUNICIPALITY'S STANDARDS SHALL DICTATE. SUBSTITUTIONS AND DEVIATION FROM PLANS AND SPECIFICATIONS SHALL BE PERMITTED ONLY WHEN WRITTEN APPROVAL HAS BEEN ISSUED BY THE OWNER.

17. SHOP DRAWINGS OF ALL MATERIALS BEING USED SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING MATERIALS. ANY MATERIAL, STRUCTURES, ETC. ORDERED PRIOR TO RECEIVING APPROVAL BY THE ENGINEER OF RECORD IS SUBJECT TO BE REJECTED AND REPLACED AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL CONTACT THE ENGINEER FOR A LIST OF MINIMUM SHOP DRAWING MATERIALS TO BE SUBMITTED FOR REVIEW.

18. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY DEWATERING PERMIT NECESSARY TO COMPLETE THE WORK SHOWN WITHIN THESE PLANS. ALL DEWATERING COSTS ASSOCIATED WITH THE INSTALL ATION AND CONSTRUCTION OF THE UNDERGROUND UTILITIES; STORMWATER PIPES AND MANHOLES; SANITARY SEWER MAINS, FORCE MAINS, MANHOLES, LIFT STATIONS AND STORMWATER MANAGEMENT SYSTEMS SHALL BE INCLUDED AS PART OF THE CONSTRUCTION BID COSTS.

19. PLANS AND SPECIFICATIONS REQUIRE THAT FILL REQUIRED FOR THE COMPLETION OF THE PROJECT SHALL BE COMPACTED. THE BACKFILL PLACED ALONG SIDE OF AND OVER ALL UTILITIES SHALL ALSO BE COMPACTED TO 98% OF MAXIMUM OBTAINABLE DRY DENSITY PER AASHTO T-180 UNLESS OTHERWISE SPECIFIED HEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED TESTS PERFORMED BY AN INDEPENDENT TESTING LABORATORY. THE CONTRACTOR SHALL PAY FOR ALL COMPACTION TESTS AND RE-TESTS. THE ENGINEER AND OWNER SHALL BE COPIED ON ALL COMPACTION TESTS TO VERIFY BACKFILL COMPACTION.

20. ALL PROPOSED IMPROVEMENTS WITHIN THE ROAD RIGHT-OF-WAY WILL BE DEDICATED TO THE AGENCY HAVING JURISDICTION FOR PUBLIC USE.

21. CONSTRUCTION OBSERVATION WILL BE PROVIDED BY THE ENGINEER OF RECORD. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.

22. ALL SIDEWALKS SHALL BE HANDICAPPED ACCESSIBLE UNLESS OTHERWISE SHOWN

23. PARKING BAYS MEASUREMENT (I.E. "10 SPACES @ 9'=90-FT) IS FROM FACE-OF-CURB TO FACE-OF-CURB.

MAINTENANCE OF TRAFFIC NOTES

MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION AND REVISIONS) AND THE FLORIDA DEPARTMENT OF RANSPORTATION ROADWAY DESIGN STANDARDS (LATEST EDITION AND REVISIONS)

2. THE CONTRACTOR SHALL CALL (407) 246-2372 1 WEEK PRIOR TO THE START OF ANY PHASE OF WORK TO REQUEST STREET, LANE OR SIDEWALK CLOSURE AUTHORIZATION.

3. LOCAL RESIDENTIAL/BUSINESS ACCESS SHALL BE MAINTAINED AT ALL TIMES.

4. THE USE OF TRAFFIC CONES WILL BE RESTRICTED TO ACTIVE WORK PERIODS ONLY. CHANNELIZING DEVICES (TYPE I, II, DRUMS) SHALL BE USED DURING INACTIVE WORK PERIODS UNLESS OTHERWISE SPECIFIED.

5. THE CITY OF ORLANDO RESERVES THE RIGHT TO REQUIRE ADDITIONAL DEVICES AND/OR CHANGES TO THE TRAFFIC CONTROL PLAN BASED UPON CHANGING TRAFFIC CONDITIONS.

6. PEDESTRIAN CONTROL SHALL BE MAINTAINED ON ONE SIDE OF THE ROAD AT ALL TIMES. IF UNABLE TO DO SO. THE CONTRACTOR SHALL PROVIDE TEMPORARY WALKWAYS. BOARDWALKS AND/OR TEMPORARY CONCRETE SIDEWALKS.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING FACH EMPLOYEE SUPERVISING THE SELECTION AND PLACEMENT OF MAINTENANCE OF TRAFFIC (MOT) CONTROL DEVICES SHALL BE PROPERLY TRAINED BY ATTENDING AND SUCCESSFULLY COMPLETING A FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) APPROVED MOT COURSE. THE TRAINING SHALL BE AT A LEVEL APPLICABLE TO THE EMPLOYEE'S LEVEL OF INVOLVEMENT. COPIES OF CERTIFICATIONS SHALL BE PROVIDED TO THE CITY TRANSPORTATION ENGINEERING DIVISION PRIOR TO IMPLEMENTING ANY PHASE OF MOT.

8. THE CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL SUPERVISOR (TCS) WHO IS RESPONSIBLE FOR INITIATING, INSTALLING AND MAINTAINING ALL TRAFFIC CONTROL DEVICES.

THE TCS SHALL BE AVAILABLE ON A 24-HOUR PER DAY BASIS. PARTICIPATE IN ALL CHANGES TO TRAFFIC CONTROL AND REVIEW THE PROJECT ON A DAY-TO-DAY BASIS.

10. THE TCS SHALL BE PRESENT DURING THE INITIAL SETUP OF THE TRAFFIC CONTROL PLAN AND ALL SUBSEQUENT PHASES OR CHANGES TO THE TRAFFIC CONTROL.

11. THE TCS SHALL IMMEDIATELY CORRECT ALL DEFICIENCIES.

12. THE CONTRACTOR SHALL ENSURE THE TCS BE AVAILABLE ON SITE WITHIN 45 MINUTES OF NOTIFICATION OF AN EMERGENCY SITUATION AND IS PREPARED TO RESPOND TO AND CORRECT THE TRAFFIC CONTROL OR PROVIDE ALTERNATE ARRANGEMENTS FOR CORRECTIVE ACTIONS.

13. THE TCS SHALL BE RESPONSIBLE FOR PERFORMING WEEKLY, DAYTIME AND NIGHTTIME INSPECTIONS OF ALL TRAFFIC CONTROL DEVICES, TRAFFIC FLOW, AND PEDESTRIAN, BICYCLIST MOVEMENT THROUGH THE WORK AREA AND BUSINESS ACCOMMODATIONS.

14. THE CITY MAY DISQUALIFY AND REMOVE FROM THE PROJECT A TRAFFIC CONTROL SUPERVISOR THAT FAILS TO COMPLY WITH THESE PROVISIONS. THE CITY MAY ALSO SUSPEND ALL WORK ACTIVITIES UNTIL CORRECTIVE ACTIONS HAVE BEEN COMPLETED.

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TESTING AND INSPECTION REQUIREMENTS

. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING APPLICABLE TESTING WITH THE GEOTECHNICAL ENGINEER. UPON COMPLETION OF THE WORK, THE GEOTECHNICAL ENGINEER WILL SUBMIT CERTIFICATIONS TO THE OWNER AND ENGINEER STATING THAT ALL REQUIREMENTS HAVE BEEN MET.

2. THE OWNER WILL RETAIN THE SERVICES OF A QUALIFIED TESTING LABORATORY TO PERFORM ALL TESTING NECESSARY AS REQUIRED BY THESE PLANS AND THE VARIOUS AGENCIES. THE OWNER SHALL PAY THE COSTS OF ALL INITIAL TESTING. SHOULD ANY RETESTING BE REQUIRED DUE TO THE FAILURE OF ANY TESTS TO MEET THE REQUIREMENTS, THE CONTRACTOR SHALL BEAR ALL COSTS OF SAID RETESTING.

AS-BUILT NOTE

JPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL FURNISH THE ENGINEER WITH COMPLETE "AS-BUILT" INFORMATION CERTIFIED BY A **REGISTERED LAND SURVEYOR. THIS "AS-BUILT" INFORMATION SHALL INCLUDE** INVERT ELEVATIONS, LOCATION OF FITTINGS, LOCATION OF STRUCTURES FOR ALL UTILITIES INSTALLED. AS WELL AS TOP OF BANK, TOE OF SLOPE, GRADE BREAK LOCATIONS. AND ELEVATIONS FOR POND AND DITCH CONSTRUCTION NO ENGINEER'S CERTIFICATION FOR CERTIFICATE OF OCCUPANCY PURPOSES WILL BE MADE UNTIL THIS INFORMATION IS RECEIVED AND APPROVED BY THE ENGINEER OF RECORD.

BENCHMARK NOTES

SITE BENCHMARK #

SET %" IRON ROD LB #7807

RETAIL -

ELEVATION = 90.21 (NAVD)

** INFO PROVIDED BY PROVIDED BY HLSM, LLC PROFESSIONAL SURVEYORS & MAPPERS (JOB No: 1-151, DATED 3/14/18)

PARKING REQUIREMENTS

OFF-STREET PARKING REQUIREMENTS (SEC. 61.322) -RESTAURANT 5 TO 20 PARKING SPACES PER PER 1,000-SF

2,544 / 1,000 = 2.5 5 * 2.5 = 12.7 SPACES (MIN) 20 * 2.5 = 50.0 SPACES (MAX)

2.5 TO 4 PARKING SPACES PER 1,000-SF 3,656 / 1,000 = 3.65 2.5 * 3.65 = 9.14 SPACES (MIN) 4 * 3.65 = 14.60 SPACES (MAX)

PARKING REQUIRED = 22 SPACES (MIN) 65 SPACES (MAX) **STANDARD PARKING PROVIDED = 45 SPACES**

DANIEL L. MORRIS, PE ON 6/4/2018 USING A DIGITAL SIGNATURE.

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY -

COPIES.

EGEND

PROPERTY BOUNDARY

IMITS OF NEW CONCRETE

IMITS OF NEW ASPHALT AVEMENT

TOTAL PARKING PROVIDED (INC. 3 HC) = 48 SPACES

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC UTILITY COORDINATION NOTE

SURVEY PROVIDED BY HLSM, LLC PROFESSIONAL WITH HIGH POINTS DELINEATED. THE AS-BOILT OHALL DE THE AS-BOILT OHAL SURVEYORS AND MAPPERS (JOB No. 1-151, DATED MINIMUM TECHNICAL STANDARDS DEFINED IN CHAPTER 61G-17.006, FAC. 3/14/18).

LOCATIONS PRIOR TO BIDDING AND CONSTRUCTION.

3. CONTRACTOR SHALL USE EXTREME CAUTION WHILE 24. ALL STORM PIPE JOINTS AT STRUCTURE CONNECTIONS SHALL BE FILTER **PERFORMING CONSTRUCTION AROUND OVERHEAD POWER** FABRIC WRAPPED PER DETAIL SHOWN IN FDOT INDEX NO. 201. ALL STORM LINES AND EXIST. UNDERGROUND UTILITIES. PIPE JOINTS SHALL HAVE A FILTER FABRIC JACKET PER DETAIL SHOWN IN CONTRACTOR SHALL MAINTAIN MIN. COVER **REQUIREMENTS OVER EXIST. UNDERGROUND UTILITIES.** TYPES DRAINAGE STRUCTURE INVERT' DETAIL IN FDOT INDEX NO. 201. PAVING AND DRAINAGE NOTES

1. ALL DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED ON PLANS.

2. CONTRACTOR SHALL NOT SCALE PLAN, BUT SHALL REFER TO BOUNDARY AND TOPOGRAPHICS SURVEY BY PROVIDED BY HLSM, LLC PROFESSIONAL SURVEYORS & MAPPERS (JOB No: 1-151, DATED 3/14/18) FOR ALL HORIZONTAL LINE DIMENSIONS.

3. TOPO INFORMATION SHOWN ON THESE PLANS PROVIDED BY BOUNDARY AND TOPOGRAPHICS SURVEY BY PROVIDED BY HLSM, LLC PROFESSIONAL SURVEYORS & MAPPERS (JOB No: 1-151, DATED 3/14/18).

4. ALL DISTURBED AREAS SHALL BE SODDED UNLESS OTHERWISE NOTED ON PLANS. SOD INSTALLED ON SLOPES 3:1 OR GREATER SHALL BE HELD IN PLACE WITH 12-IN STAPLES.

5. PROPOSED GRADING OF LANDSCAPED / ENHANCED AREAS DEPICT FINAL GRADES UPON NECESSARY FILL AND SODDING / GRASSING.

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

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY TESTING TO ASSURE THAT THE PROPER COMPACTION HAS BEEN ACHIEVED ON THE SUBGRADE, BASE, AND ALL OTHER PERTINENT AREAS THAT HAVE BEEN COMPLETED. THE CONTRACTOR SHALL BEAR ALL COSTS ASSOCIATED WITH TESTING AND SHALL PROVIDE THE OWNER AND THE ENGINEER WITH COPIES OF THE CERTIFICATION OF COMPACTION FROM THE **TESTING COMPANY.**

8. GRADING SHOWN ON THESE PLANS IS PROVIDED TO THE CONTRACTOR TO EXPRESS THE GENERAL GRADING INTENT OF THE PROJECT. THE CONTRACTOR SHALL GRADE THE ENTIRE SITE TO PROVIDE POSITIVE DRAINAGE IN ALL AREAS. SMOOTH TRANSITIONS SHALL BE PROVIDED BETWEEN CONTOURS OR SPOT ELEVATIONS AS SHOWN ON THE PLANS TO ACCOMPLISH THE GRADING INTENT. NO STANDING WATER ("BIRDBATHS") SHALL REMAIN WITHIN THE PARKING AREAS INCLUDING THOSE AREAS NEXT TO THE INLET. ALL SLOPES SHALL PROVIDE POSITIVE DRAINAGE INTO THE INLETS. ALL SLOPES SHALL BE STABILIZED IMMEDIATELY AFTER FINAL GRADING HAS BEEN COMPLETED. CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER A MINIMUM OF FORTY-EIGHT(48) HOURS PRIOR TO DEMOBILIZATION OF GRADING EQUIPMENT TO DETERMINE THAT THE GRADING INTENT HAS BEEN 31. REFER TO SHEET NO. C500 FOR PAVING AND DRAINAGE DETAILS. ACHIEVED.

9. ALL MATERIALS AND CONSTRUCTION METHODS ARE TO BE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION) SECTION 400 (CONCRETE STRUCTURES) AND THE APPLICABLE FDOT INDEX NUMBER DETAIL AS SHOWN IN FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS (LATEST EDITION).

10 ALL ORGANIC SOILS BELOW UTILITY TRENCHES SHALL BE REMOVED AND **REPLACED WITH SUITABLE MATERIAL AND COMPACTED TO NO LESS THAN 98%** OF THE MODIFIED PROCTOR MAXIMUM DENSITY (AASHTO T - 180).

11. STABILIZED SUBGRADE TO BE FDOT TYPE "C".

12. ALL CONCRETE FLUMES, WALKS, AND CURBS SHALL BE CONSTRUCTED WITH 3,000-PSI (AT 28 DAYS) CONCRETE UNLESS OTHERWISE NOTED.

13. ALL CURBS SHALL HAVE CONTRACTION JOINTS AT INTERVALS NOT TO EXCEED 10-FT ON CENTER. CONSTRUCTION OF CURBS SHALL BE IN CONFORMANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION) SECTION 520 AND DETAILS PROVIDED ON THE CONSTRUCTION PLANS.

14. ALL AREAS WITHIN THE RIGHT-OF-WAY SHALL BE FINISHED GRADED WITH A SMOOTH TRANSITION INTO EXISTING GROUND. ALL SWALES SHALL BE STABILIZED IMMEDIATELY AFTER FINAL GRADING. ALL DISTURBED AREAS SHALL BE SODDED AFTER FINAL GRADING IN ACCORDANCE WITH THE CONSTRUCTION PLANS PRIOR TO FINAL INSPECTION. ALL GRASSING (SOD) SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL FINAL ACCEPTANCE BY THE OWNER/OPERATOR. ANY SOD INSTALLED ADJACENT TO CURBS AND SIDEWALKS SHALL BE INSTALLED FLUSH WITH THE TOP OF SAID CURB/SIDEWALK, IN ORDER TO PROVIDE A SMOOTH GRADE TRANSITION AND ALLEVIATE TRIPPING HAZARDS.

15. THE SEQUENCE OF CONSTRUCTION SHALL BE SUCH THAT ALL UNDERGROUND INSTALLATIONS OF EVERY KIND. INCLUDING SPRINKLERS. SHALL BE PLACED BENEATH THE PAVEMENT AND ITS EDGES AND TESTED OR INSPECTED PRIOR TO THE CONSTRUCTION OF THE PAVEMENT. THE PAVEMENT SHALL NOT BE CUT WITHOUT PRIOR APPROVAL OF THE OWNER.

16. ALL FILL MATERIALS SHALL BE FREE OF MUCK, STUMPS, ROOTS, BRUSH, VEGETATIVE MATTER, RUBBISH, OR OTHER UNSUITABLE MATTER.

17. ALL EXCESS USEABLE MATERIALS EXCAVATED SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE STOCKPILED AT ON-SITE LOCATIONS AS SPECIFIED BY THE OWNER. EXCESS MATERIALS SHALL BE STOCKPILED SEPARATELY AS TO USEABLE (NONORGANIC) FILL STOCKPILES AND ORGANIC (MUCK) STOCKPILES IF MUCK IS ENCOUNTERED. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL UNSUITABLE FILL MATERIALS FROM THE SITE. THE OWNER MAY, AT HIS SOLE DISCRETION, REQUIRE THE CONTRACTOR, AT NO ADDITIONAL EXPENSE TO THE OWNER, TO PROPERLY REMOVE AND DISPOSE OF ANY EXCESS MATERIAL, WHETHER USEABLE OR ORGANIC. FILL MATERIALS PLACED UNDER ROADWAYS SHALL BE COMPACTED TO AT LEAST 98% MAXIMUM DENSITY AS SPECIFIED IN AASHTO T-180. ALL OTHER AREAS ARE TO BE COMPACTED TO AT LEAST 95% MAXIMUM DENSITY AS SPECIFIED IN AASHTO T-180. FILL MATERIALS SHALL BE PLACED AND COMPACTED IN A MAXIMUM OF 12" LIFTS. REFER TO SOILS REPORT FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL PROVIDE THE ENGINEER AND THE OWNER WITH ALL (PASSING AND FAILING) TESTING RESULTS. RESULTS SHALL BE PROVIDED ON A TIMELY AND REGULAR BASIS PRIOR TO CONTRACTOR'S PAY REQUEST SUBMITTAL.

18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND WILL PROVIDE BRACING, SHEETING OR SHORING AS NECESSARY. DEWATERING METHODS SHALL BE USED AS REQUIRED TO KEEP TRENCHES DRY WHILE PIPE AND APPURTENANCES ARE BEING PLACED.

19. ALL NECESSARY FILL AND EMBANKMENT THAT IS PLACED DURING CONSTRUCTION SHALL CONSIST OF MATERIAL SPECIFIED BY THE OWNER'S SOIL TESTING COMPANY AND BE PLACED COMPACTED ACCORDING TO THESE PLANS OR THE REFERENCED SOILS REPORT.

20. CONTRACTOR SHALL TRIM, TACK, AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT.

21. CONTRACTOR TO PROVIDE A 1/2-IN TO 1-IN BITUMINOUS EXPANSION JOINT MATERIAL WITH SEALER AT ABUTMENTS OF CONCRETE AND OTHER MATERIALS (BUILDINGS, OTHER POURED CONCRETE, ETC.).

22. THE CONTRACTOR SHALL PROVIDE OWNER AND ENGINEER PAVEMENT AS-BUILTS. AS-BUILTS SHALL CONTAIN AT A MINIMUM, BUT NOT LIMITED TO, 1. EXIST. UTILITY INFORMATION SHOWN ACCORDING TO PAVEMENT WIDTHS, PAVEMENT CROSS SLOPES, AND DRAINAGE DIRECTIONS (WITH HIGH POINTS DELINEATED. THE AS-BUILT SHALL BE PREPARED BY A

23. FOR SPECIFIED REINFORCED CONCRETE PIPE (RCP), THE PIPE SHALL BE 2. CONTRACTOR SHALL VERIFY EXIST. UTILITY SIZES AND CLASS III WITH RUBBER GASKET JOINTS. RCP SHALL CONFORM TO FOOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION) SECTION 941. RUBBER GASKETS SHALL CONFORM TO SECTION 942.

25. ALL OTHER RELATED ITEMS REQUIRED FOR THE CONSTRUCTION OF THE STORM SEWER (OUTFALL PROTECTION, POLLUTION CONTROL, ETC.) ARE TO BE IN ACCORDANCE WITH DETAILS SHOWN ON THE CONSTRUCTION PLANS, FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS, AND FDOT STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION (LATEST EDITION).

26. CONNECT ALL ROOF DRAINS TO DRAINAGE SYSTEM USING 6" HDPE PIPE AT A MIN. SLOPE OF 1% USING APPROPRIATE FITTINGS AS NECESSARY. ALL FITTINGS SHALL BE 30" MIN. BELOW FINISHED GRADE. PROVIDE CLEANOUTS FOR ALL ROOF DRAINS. (REFER TO ARCHITECTURAL PLANS FOR EXACT SIZES AND LOCATIONS.)

27. SIDEWALKS ARE TO BE CONSTRUCTED IN THE AREAS AS SHOWN ON THE CONSTRUCTION PLANS AND AS SHOWN IN THE DETAIL INCLUDED HEREIN. THE SIDEWALK SHALL BE CONSTRUCTED OF 4-IN OF CONCRETE UNLESS OTHERWISE NOTED.

28. WHERE SIDEWALK IS PROPOSED TO MEET BUILDING FINISHED FLOOR, SPOT ELEVATIONS SHALL NOT TO BE LOWER THAN FINISHED FLOOR ELEVATION BY MORE THAN 0.05-FT.

29. ALL PAVING SURFACES IN INTERSECTIONS AND ADJACENT SECTIONS SHALL BE GRADED TO DRAIN POSITIVELY IN THE DIRECTION SHOWN BY THE FLOW ARROWS ON THE PLANS AND TO PROVIDE A SMOOTHLY TRANSITIONED DRIVING SURFACE FOR VEHICLES WITH NO SHARP BREAKS IN GRADE, AND NO UNUSUALLY STEEP OR REVERSE CROSS SLOPES. APPROACHES TO INTERSECTIONS AND ENTRANCES AND EXIT GRADES TO INTERSECTIONS WILL HAVE TO BE STAKED IN THE FIELD AT DIFFERENT GRADES THAN THE CENTERLINE GRADES SHOWN ON THE PLANS. IN THESE AREAS, IT MAY ALSO BECOME ADVISABLE TO MAKE MINOR LOCAL FIELD ADJUSTMENTS IN THE CENTERLINE GRADES TO ACCOMPLISH THE PURPOSES OUTLINED. IN ADDITION, THE STANDARD CROWN WILL HAVE TO BE CHANGED IN ORDER TO DRAIN POSITIVELY IN THE AREA OF INTERSECTIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH THE ABOVE AND THE ENGINEER SHALL BE CONSULTED SO THAT HE MAY MAKE ANY AND ALL REQUIRED INTERPRETATIONS OF THE PLANS OR GIVE SUPPLEMENTARY INSTRUCTIONS TO ACCOMPLISH THE INTENT OF THE PLANS.

30. CONTRACTOR SHALL REFER TO PROJECT GEOTECHNICAL REPORT FOR SOIL BORINGS AND DESIGN AND CONSTRUCTION RECOMMENDATIONS (ARDAMAN AND ASSOCIATES, INC., JOB NO. 16-6384, DATED MAY 23, 2016) OR

TESTING AND INSPECTION REQUIREMENTS

1. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING APPLICABLE TESTING WITH THE GEOTECHNICAL ENGINEER. UPON COMPLETION OF THE WORK, THE GEOTECHNICAL ENGINEER WILL SUBMIT CERTIFICATIONS TO THE OWNER AND ENGINEER STATING THAT ALL REQUIREMENTS HAVE BEEN MET.

2. THE OWNER WILL RETAIN THE SERVICES OF A QUALIFIED TESTING LABORATORY TO PERFORM ALL TESTING NECESSARY AS REQUIRED BY THESE PLANS AND THE VARIOUS AGENCIES. THE OWNER SHALL PAY THE COSTS OF ALL INITIAL TESTING. SHOULD ANY RETESTING BE REQUIRED DUE TO THI FAILURE OF ANY TESTS TO MEET THE REQUIREMENTS, THE CONTRACTOR SHALL BEAR ALL COSTS OF SAID RETESTING.

AS-BUILT NOTE

UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL FURNISH THE ENGINEER WITH COMPLETE "AS-BUILT" INFORMATION CERTIFIED BY A **REGISTERED LAND SURVEYOR. THIS "AS-BUILT" INFORMATION SHALL INCLUDE** INVERT ELEVATIONS, LOCATION OF FITTINGS, LOCATION OF STRUCTURES FOR ALL UTILITIES INSTALLED, AS WELL AS TOP OF BANK, TOE OF SLOPE, GRADE BREAK LOCATIONS, AND ELEVATIONS FOR POND AND DITCH CONSTRUCTION. NO ENGINEER'S CERTIFICATION FOR CERTIFICATE OF OCCUPANCY PURPOSES WILL BE MADE UNTIL THIS INFORMATION IS RECEIVED AND APPROVED BY THE ENGINEER OF RECORD.

SITE BENCHMARK #1 SET %" IRON ROD

ELEVATION = 90.21 (NAVD)

** INFO PROVIDED BY PROVIDED BY HLSM, LLC **PROFESSIONAL SURVEYORS & MAPPERS** (JOB No: 1-151, DATED 3/14/18)

COPIES.

DRAI					
STR. NO.	DRN. AREA (AC)				
S-1	0.10				
S-2	0.14				
S-3					
S-4	0.07				
S-5	0.22				
S-6	0.07				
S-7	0.24				
S-8	0.11				
S-9					

WATER AND SEWER NOTES

1. THE LOCATION OF ALL EXISTING UTILITIES AND STORM DRAINAGE SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST AVAILABLE INFORMATION AT THE TIME OF PREPARATION OF THESE PLANS AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR INACCURACY. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITIES AND TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATION OF THESE UTILITIES WITH THE OWNER OF THE UTILITY. THE CONTRACTOR SHALL ALSO EXPOSE ALL EXISTING UTILITIES AT THE CROSSINGS TO VERIFY THAT THE PROPOSED DESIGN DOES NOT CONFLICT WITH THE EXISTING UTILITIES. ANY CORRECTIONS, REPERMITTING, OR DELAYS CAUSED BY THE CONTRACTOR'S FAILURE TO EXPOSE THE EXISTING UTILITIES PRIOR TO COMMENCING ANY UNDERGROUND WORK SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND NO EXTRA COMPENSATION OR TIME WILL BE ALLOWED. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING ANY UNDERGROUND UTILITY, WHETHER SHOWN ON THE PLANS OR LOCATED BY THE UTILITY COMPANY. ALL UTILITIES, WHICH INTERFERE WITH THE PROPOSED CONSTRUCTION. SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. ANY FEES ASSOCIATED WITH UTILITY RELOCATIONS SHALL BE BORNE BY THE CONTRACTOR. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE UTILITIES ARE RELOCATED IN ACCORDANCE WITH RESPECTIVE UTILITY COMPANY STANDARDS. IT IS REQUESTED THAT UTILITY COMPANIES MOVE THEIR PARTICULAR UTILITIES. ANY DELAY OR INCONVENIENCE CAUSED TO THE CONTRACTOR BY THE RELOCATION OF THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED.

2. CONTRACTOR SHALL LOCATE ALL EXIST. UTILITIES AND VERIFY SIZES PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR RELOCATION OF ALL EXIST. UTILITIES REQUIRED FOR CONSTRUCTION. THIS INCLUDES BUT IS NOT LIMITED TO POWER IRRIGATION VALVES AND RESETTING MANHOLE TOPS ALL EXIST. IMPROVEMENTS SHALL BE REPAIRED, RELOCATED, AND REPLACED TO EXIST. CONDITIONS.

3. CONTRACTOR SHALL VERIFY ALL EXISTING SANITARY SEWER AND WATER MAIN LOCATIONS AND INVERTS PRIOR TO CONSTRUCTION. IF THERE IS SIGNIFICANT DISCREPANCY (±1'), CONTACT THE PROJECT ENGINEER IMMEDIATELY.

4. ALL EXISTING WATER, FORCE, GRAVITY AND RECLAIMED WATER MAINS, AND OTHER FACILITIES WITHIN THE LIMITS OF THE PROJECT SHALL BE SUPPORTED AND PROTECTED AGAINST DAMAGE DURING CONSTRUCTION.

5. CONTRACTOR SHALL ADJUST VALVE BOXES. AIR RELEASE VALVES. FIRE HYDRANTS, MANHOLE COVERS, ETC., IN CONFLICT WITH CONSTRUCTION.

6. THE CONTRACTOR, AT THE CONTRACTOR'S EXPENSE, SHALL IMMEDIATELY REPAIR ALL DAMAGES TO UTILITIES' MAINS AND FACILITIES. IF THE REPAIR IS NOT MADE IN A TIMELY MANNER, AS DETERMINED BY UTILITIES, UTILITIES MAY PERFORM REQUIRED REPAIRS AND CLEANUP. THE CONTRACTOR WILL BE CHARGED FOR ALL EXPENSES ASSOCIATED WITH THE REPAIR.

7. ALL EXISTING AND NEW UTILITIES VALVES, VALVE BOXES, AND MANHOLES SHALL BE PROTECTED AND ADJUSTED TO FINISHED GRADE AS SHOWN ON THE DRAWINGS. ALL EXISTING ABOVE GROUND VALVES ARE TO BE RELOCATED, AS REQUIRED

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KNOWING THE CONTACT AND PHONE NUMBER FOR THE APPROPRIATE UTILITIES DISPATCH OPERATOR TO BE NOTIFIED FOR EMERGENCIES.

9. ALL NEW WATER & SEWER TAPS TO BE PERFORMED BY UTILITY CONTRACTOR OR LICENSED MASTER PLUMBER, MUST BE SCHEDULED 48 HOURS IN ADVANCE THROUGH ORANGE COUNTY PUBLIC UTILITIES.

10. FOR ALL STANDARD WATER DETAILS, SEE ORANGE COUNTY PUBLIC UTILITIES STANDARD SPECIFICATIONS & DETAILS, LATEST REVISIONS.

11. ONLY UTILITIES SHALL OPERATE WATER, WASTEWATER, AND RECLAIMED WATER VALVES. COORDINATE VALVE OPERATION WITH APPROPRIATE UTILITIES INSPECTOR.

12. ALL NEW VALVES BEING INSTALLED SHALL REMAIN CLOSED DURING CONSTRUCTION. KEEP VALVES ON ALL WET TAPS CLOSED UNTIL CLEARED. DO NOT CONNECT ANY PROPOSED WATER MAIN TO ANY EXISTING WATER MAIN UNLESS CLEARED BY UTILITIES.

13. THE UTILITY IMPROVEMENTS AND ADJUSTMENTS SHOWN ON THESE PLANS ARE INTENDED TO MAINTAIN THE INTEGRITY OF THE VARIOUS JURISDICTIONAL WATER, WASTEWATER, AND RECLAIMED WATER SYSTEMS. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPROPRIATE JURISDICTIONAL UTILITY MANUAL.

14. THE SEQUENCE OF CONSTRUCTION SHALL BE SUCH THAT ALL UNDERGROUND INSTALLATIONS OF EVERY KIND, INCLUDING SPRINKLERS. SHALL BE PLACED BENEATH THE PAVEMENT AND ITS EDGES PRIOR TO THE CONSTRUCTION OF THE PAVEMENT. THE PAVEMENT SHALL NOT BE CUT WITHOUT PRIOR APPROVAL OF THE OWNER.

15. ALL GATE VALVES INCLUDE CAST IRON VALVE BOX.

16. ALL WATER SERVICES SHALL BE INSTALLED PER ORANGE COUNTY PUBLIC UTILITIES DETAILS AND SPECS.

17. CONTRACTOR SHALL INSTALL ALL PROPOSED BACKFLOW PREVENTERS 12-IN ABOVE FINISH GRADE AND OUTSIDE OF UTILITY EASEMENT.

18. ALL DISTURBED AREAS SHALL BE SODDED UNLESS OTHERWISE NOTED ON PLANS. SOD INSTALLED ON SLOPES 3:1 OR GREATER SHALL BE HELD IN PLACE WITH 12-IN STAPLES.

19. ALL UNDERGROUND FIRE MAINS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 24, LATEST EDITION, "STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES". [F.A.C. 69A-60.005(2)]

UTILITY SEPARATION - WATER MAINS PARALLEL TO OTHER UTILITIES

1. A 3-FT (MIN) HORIZONTAL DISTANCE SHALL BE PROVIDED BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXIST. OR PROPOSED VACUUM - TYPE SANITARY SEWER, STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610. FAC.

2. A 6-FT (MIN) HORIZONTAL DISTANCE SHALL BE PROVIDED BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXIST. OR PROPOSED GRAVITY - TYPE SANITARY SEWER (OR A HORIZONTAL DISTANCE OF AT LEAST 3-FT BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY - TYPE SANITARY SEWER IF THE BOTTOM OF THE WATER MAIN WILL BE LAID AT LEAST 6-IN ABOVE THE TOP OF THE SEWER).

3. A 6-FT (MIN) HORIZONTAL DISTANCE SHALL BE PROVIDED BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXIST. OR PROPOSED PRESSURE - TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, FAC.

4. A 10-FT (MIN) HORIZONTAL DISTANCE SHALL BE PROVIDED BETWEEN THE OUTSIDE OF THE WATER MAIN AND ALL PARTS OF ANY EXIST. OR PROPOSED "ON-SITE" SEWAGE TREATMENT AND DISPOSAL SYSTEM.

5. THE PIPE SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST 3-FT FROM ALL JOINTS IN VACUUM - TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610 FAC. AND AT LEAST 6-FT FROM ALL JOINTS IN GRAVITY - OR PRESSURE - TYPE SANITARY SEWERS. WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT **REGULATED UNDER PART III OF CHAPTER 62-610, FAC.**

UTILITY SEPARATION - WATER MAINS CROSSING OTHER UTILITIES

1. ANY NEW OR RELOCATED UNDERGROUND WATER MAINS THAT WILL CROSS ANY EXIST. OR PROPOSED GRAVITY - OR VACUUM - TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THAT THE OUTSIDE OF THE WATER MAIN IS AT LEAST 6-IN ABOVE THE OTHER PIPELINE OR AT LEAST 12-IN BELOW THE OTHER PIPELINE

2. ANY NEW OR RELOCATED UNDERGROUND WATER MAINS THAT WILL CROSS ANY EXIST. OR PROPOSED PRESSURE - TYPE SANITARY SEWER, WASTEWATER OR STORM FORCE MAIN. OR PIPE LINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12-IN ABOVE OR BELOW THE OTHER PIPELINE.

3. AT ANY UTILITY CROSSING. ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE.

TESTING AND INSPECTION REQUIREMENTS

THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING APPLICABLE TESTING WITH THE GEOTECHNICAL ENGINEER. UPON COMPLETION OF THE WORK, THE GEOTECHNICAL ENGINEER WILL SUBMIT CERTIFICATIONS TO THE OWNER AND ENGINEER STATING THAT ALL REQUIREMENTS HAVE BEEN MET.

. THE OWNER WILL RETAIN THE SERVICES OF A QUALIFIED TESTING LABORATORY TO PERFORM ALL TESTING NECESSARY AS REQUIRED BY THESE PLANS AND THE VARIOUS AGENCIES. THE OWNER SHALL PAY THE COSTS OF ALL INITIAL TESTING. SHOULD ANY RETESTING BE REQUIRED DUE TO THE FAILURE OF ANY TESTS TO MEET THE REQUIREMENTS, THE CONTRACTOR SHALL BEAR ALL COSTS OF SAID RETESTING.

AS-BUILT NOTE

UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL FURNISH THE ENGINEER WITH COMPLETE "AS-BUILT" INFORMATION CERTIFIED BY A **REGISTERED LAND SURVEYOR. THIS "AS-BUILT" INFORMATION SHALL INCLUDE** INVERT ELEVATIONS. LOCATION OF FITTINGS. LOCATION OF STRUCTURES FOR ALL UTILITIES INSTALLED, AS WELL AS TOP OF BANK, TOE OF SLOPE, GRADE BREAK LOCATIONS, AND ELEVATIONS FOR POND AND DITCH CONSTRUCTION. NO ENGINEER'S CERTIFICATION FOR CERTIFICATE OF OCCUPANCY PURPOSES WILL BE MADE UNTIL THIS INFORMATION IS RECEIVED AND APPROVED BY THE ENGINEER OF RECORD.

ENGINEER'S CERTIFICATION

I, DANIEL L. MORRIS, P.E., HEREBY CERTIFY THAT TO THE **BEST OF MY KNOWLEDGE ALL EXISTING UTILITIES HAVE** BEEN FIELD LOCATED AND THE LOCATION AND ELEVATION DEPICTED ON THESE PLANS ARE BASED ON ACTUAL SURVEY, GROUND PENETRATING RADAR, SOFT DIG EXCAVATIONS, AND OTHER INDUSTRY METHODS. ALL UTILITIES LOCATED OUTSIDE PUBLIC RIGHT-OF-WAYS AND PUBLIC EASEMENTS SHALL BE PRIVATELY OWNED.

2. PERMITTED BUILDING CONSTRUCTION CONSISTS OF SITE WORK ONLY. A SEPARATE BUILDING PERMIT WILL BE **OBTAINED FOR VERTICAL CONSTRUCTION AND/OR BUILD** OUT OF INTERIOR. DEVELOPER TO COORDINATE WITH ORANGE COUNTY UTILITIES DURING INTERIOR PERMITTING TO ENSURE PROPER ASSESSMENT OR **CREDIT AND THAT END USE COMPLIES WITH ESTIMATES PROVIDED WITH HYDRAULIC ANALYSIS.**

LATERAL INSTALLATION SHALL BEGIN AT A CITY SEWER CONNECTION POINT AND SHALL BE CONSTRUCTED BACK TO THE BUILDING AT A SLOPE SUFFICIENT TO YIELD A FLOW VELOCITY OF 2 FEET PER SECOND. . STREETSIDE CLEANOUT SHALL BE FORMED BY INSTALLING A TEE AND A BEND. TWO-WAY CLEANOUTS ARE ACCEPTABLE. NO WYE CONNECTIONS WILL BE ALLOWED.

- 3. BUILDING-SIDE CLEANOUT SHALL BE INSTALLED WITHIN 5 FEET OF THE BUILDING.
- 4. THE PIPE SECTION BETWEEN THE STREETSIDE CLEANOUT AND THE BUILDING CLEANOUT SHALL BE INSTALLED WITH AS FEW BENDS AS POSSIBLE. 90° BENDS IN THIS SECTION SHALL NOT BE ALLOWED. ALL BENDS, REGARDLESS OF THE ANGLE, SHALL HAVE A CLEANOUT. LATERAL CONNECTIONS OF DISSIMILAR MATERIALS SHALL BE CONNECTED UTILIZING TRANSITION ADAPTERS. TRANSITION GASKETS AND/OR FERNCO ADAPTERS ARE ACCEPTABLE.
- 6. LATERAL CONNECTION OF LIKE MATERIALS SHALL UTILIZE REDUCERS AND/OR TRANSITION PIECES, ETC.
- 7. FIELD SOLVENT JOINTS ARE ACCEPTABLE.
- CLEANOUT CAPS LOCATED IN DRIVEWAYS AND OTHER PAVED AREAS SHALL BE CAST-IN-PLACE RINGS WITH METAL COVERS STAMPED WITH THE WORD "SEWER", ALL OTHERS SHALL BE PVC WITH AN INVERTED HEX-NUT. PRE-APPROVAL BY CITY ENGINEER ONLY.
- 9. THERE SHALL BE NO DETECTABLE LEVEL OF INFILTRATION OR EXFILTRATION FROM THE SANITARY SYSTEM AT THE TIME OF INSPECTION. ANY EVIDENCE OF LEAKAGE MUST BE CORRECTED PRIOR TO ACCEPTANCE BY THE CITY.
- 10. USE 4" OR 6" PVC (SDR26) PIPE FOR LATERALS AS NOTED ON DRAWINGS AND IN SPECIFICATIONS. DIP SHALL BE USED FOR BURIAL DEPTHS LESS THAN 3 FEET AND AS DIRECTED BY THE WASTEWATER DIVISION.
- 11. LATERAL LOCATION NO MORE THAN 5' FROM PROPERTY LINE NOT IN DRIVEWAY OR APRON.

INSTALLATION OF LATERAL CONNECTIONS

FILENAME:	CATEGORY: WASTEWATER			
DATE: 4/8/2011	SCALE: N.T.S.	ENGINEERING	STANDARDS	MA
DRAWN BY: DSG	APPROVED BY:			

COPIES.

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY -DANIEL L. MORRIS, PE ON USING A DIGITAL SIGNATURE.

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FIGURE GN

ORANGE COUNTY UTILITIES STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL

APPENDIX A

DATE: February 11, 2011

- DAMAGES TO OCU MAINS AND FACILITIES. IF THE REPAIR IS NOT MADE IN A TIMELY MANNER, AS DETERMINED BY OCU, OCU MAY PERFORM REQUIRED REPAIRS AND CLEANUP. THE CONTRACTOR WILL BE CHARGED FOR ALL EXPENSES ASSOCIATED WITH THE REPAIR. 8. THE CONTRACTOR SHALL ADJUST ALL EXISTING OCU MAINS AND FACILITIES IN
- CONFLICT WITH NEW GRADE, NEW OR ALTERED ROADWAYS, SIDEWALKS, DRIVEWAYS OR STORM WATER IMPROVEMENTS. OCU FACILITIES TO BE ADJUSTED INCLUDE, BUT ARE NOT LIMITED TO PIPELINES, PUMP STATIONS, VALVE BOXES, AIR RELEASE VALVES, FIRE HYDRANTS, MANHOLE COVERS, AND METERS.
- 9. ONLY OCU SHALL OPERATE OCU WATER. WASTEWATER, AND RECLAIMED WATER VALVES. THE CONTRACTOR SHALL COORDINATE VALVE OPERATION WITH THE OCU INSPECTOR. FOR OPERATION OF MAINS NOT OWNED BY OCU, IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE APPROPRIATE UTILITY REPRESENTATIVE.
- 10. CONSTRUCTION ACTIVITIES SHALL NOT CAUSE INTERRUPTIONS IN WATER, WASTEWATER, OR RECLAIMED WATER SERVICE. THE CONTRACTOR SHALL COORDINATE PRE-APPROVED INTERRUPTIONS OF SERVICE WITH THE OCU INSPECTOR 7 WORKING DAYS IN ADVANCE.
- 11. THE CONTRACTOR SHALL PROVIDE FOR BYPASSING AND/OR HAULING WASTEWATER DURING APPROVED INTERRUPTIONS OF WASTEWATER FLOWS AND CONNECTIONS. THE CONTRACTOR SHALL SUBMIT A BYPASS PLAN SIGNED AND SEALED BY A PROFESSIONAL ENGINEER TO OCU DEVELOPMENT ENGINEERING FOR APPROVAL PRIOR TO IMPLEMENTATION BY CONTRACTOR.
- 12. ALL VALVES INSTALLED AS PART OF THIS CONSTRUCTION PROJECT SHALL REMAIN CLOSED DURING CONSTRUCTION. KEEP VALVES ON ALL WET TAPS CLOSED UNTIL CLEARED BY FDEP. DO NOT CONNECT NEWLY CONSTRUCTED WATER MAINS TO ANY EXISTING WATER MAINS UNLESS CLEARED BY FDEP AND OCU.
- 13. THE CONTRACTOR SHALL PROVIDE A JUMPER ASSEMBLY WITH A BACKFLOW PREVENTER FOR MAKING TEMPORARY CONNECTIONS TO AN EXISTING POTABLE WATER SOURCE IN ORDER TO CHLORINATE AND FLUSH NEW WATER MAINS WITH POTABLE WATER. ANY TEMPORARY POTABLE WATER CONNECTIONS TO RECLAIMED WATER OR FORCEMAIN SHALL ALSO BE EQUIPPED WITH A BACKFLOW PREVENTER.
- 14. FOR PVC PIPE THAT WILL BE OWNED AND MAINTAINED BY OCU, NO PIPE BENDING IS ALLOWED. THE MAXIMUM ALLOWABLE TOLERANCE FOR JOINT DEFLECTION IS 0.75 DEGREES (3-INCHES PER JOINT PER 20 FT STICK OF PIPE.) ALIGNMENT CHANGE SHALL BE MADE ONLY WITH SLEEVES AND FITTINGS.
- 15. FOR NON-PVC PIPE THAT WILL BE OWNED AND MAINTAINED BY OCU, LONG RADIUS CURVES, EITHER HORIZONTAL OR VERTICAL, MAY BE INSTALLED WITH STANDARD PIPE BY DEFLECTIONS AT THE JOINTS. MAXIMUM DEFLECTIONS AT PIPE JOINTS, FITTINGS AND LAYING RADIUS FOR THE VARIOUS PIPE LENGTHS SHALL NOT EXCEED 75 PERCENT OF THE PIPE MANUFACTURER'S RECOMMENDATION.

MINIMUM HORIZONTAL SEPARATION REQUIREMENTS WATER, WASTEWATER AND RECLAIMED WATER MAINS

	HORIZONTAL & VERTICAL SEPARATION REQUIREMENTS								
UTILITY	POTABLE WATER (PW)		RECLAIMED WATER (RW)		SAN SEWER (SS) GRAVITY & FM)		STORM SEWER		ACCEPTABLE
	HORIZ	VERT	HORIZ	VERT	HORIZ	VERT	HORIZ	VERT	VANANOLS
POTABLE WATER	-	-	3'	12"	6'	12"	3'	12"	REFER TO
RECLAIMED WATER	3'	12"	-	-	3'	12"	-	-	GENERAL
SANITARY SEWER	6'	12"	3'	12"	-	-	I	1	

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