# ORLANDO HEALTH LAKE BEAUTY PARK CONSTRUCTION DOCUMENTS

PREPARED FOR:



MARCH 11, 2011

Prepared By:

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AECOM

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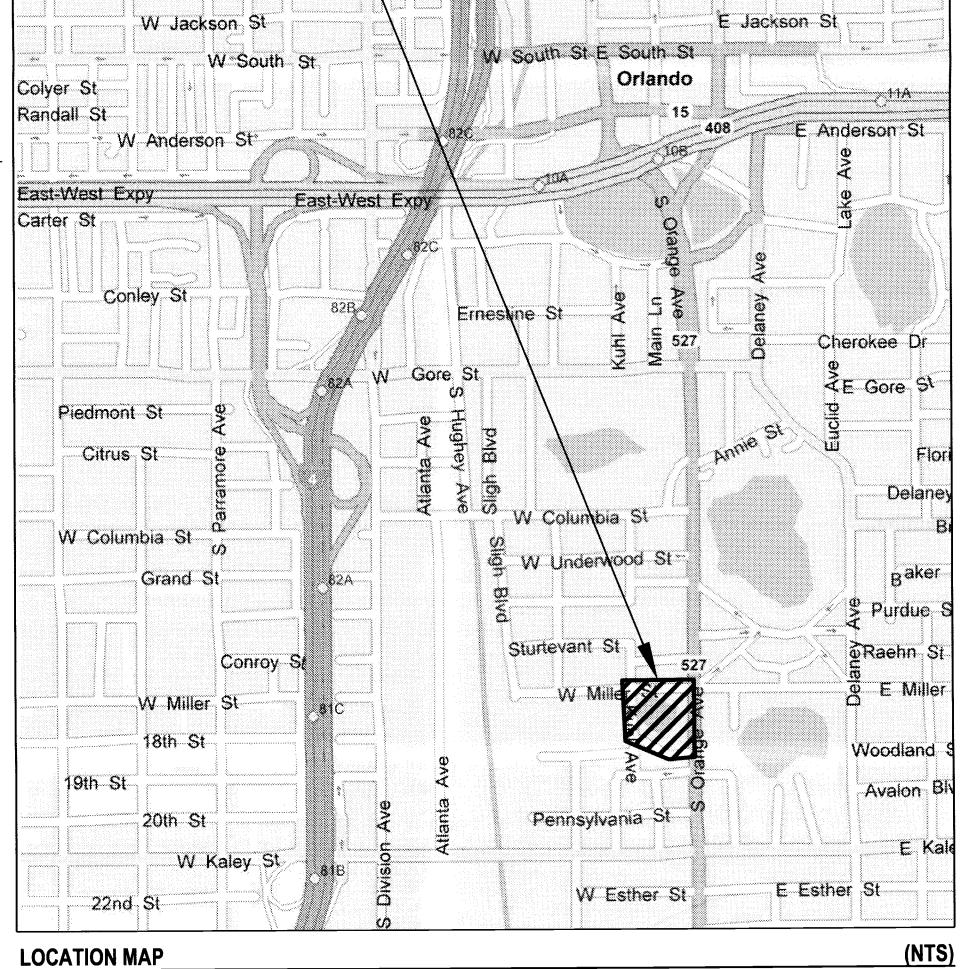
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**Attn: Robert Trompke** 

### **PROJECT LOCATION** -

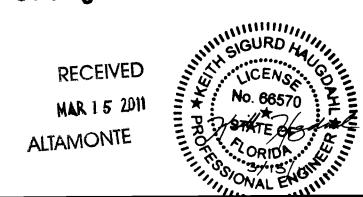


## LOCATION MAP CITY OF ORLANDO, FLORIDA

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#### **GENERAL NOTES:**

- 1. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL FIELD LOCATE, VERIFY, AND FURTHER IDENTIFY THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES (IDENTIFIED ON THE PLANS OR NOT) AFFECTING ANY COMPONENT OF WORK HEREIN PRIOR TO THE START OF ANY CONSTRUCTION. DISCREPANCIES, CONFLICTS, OR POTENTIAL DEVIATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S ENGINEER PRIOR TO THE START OF ANY CONSTRUCTION.
- 2. THE CONTRACTOR SHALL CHECK PLANS FOR CONFLICTS AND DISCREPANCIES PRIOR TO THE START OF ANY CONSTRUCTION. SPECIAL ATTENTION SHALL BE TAKEN WITH THOSE EXISTING UTILITIES, STRUCTURES OR FEATURES (IDENTIFIED ON THE PLANS OR NOT) THAT MAY POTENTIALLY CONFLICT OR CROSS PROPOSED DESIGN COMPONENTS (I.E., STORM SEWERS, SANITARY SEWERS, WATER MAINS, EXFILTRATION, BUILDING FOUNDATIONS, ETC) AND ANY DISCREPANCIES, CONFLICTS, OR POTENTIAL DEVIATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S ENGINEER PRIOR TO THE START OF ANY CONSTRUCTION. ANY COST ASSOCIATED WITH THE LOCATION OF EXISTING UTILITIES AS OUTLINE ABOVE IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 3. ERRORS OR OMISSIONS DO NOT TAKE ADVANTAGE OF ANY APPARENT ERROR OR OMISSION DISCOVERED IN THE CONTRACT DOCUMENTS, BUT IMMEDIATELY NOTIFY THE ENGINEER OF SUCH DISCOVERY. THE ENGINEER WILL THEN MAKE SUCH CORRECTIONS AND INTERPRETATIONS AS NECESSARY TO REFLECT THE ACTUAL SPIRIT AND INTENT OF THE CONTRACT DOCUMENTS.
- 4. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES AND SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE UTILITY COMPANIES PRIOR TO CONSTRUCTION TO OBTAIN FIELD LOCATIONS OF EXISTING UNDERGROUND UTILITIES.
- 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 CALLED FOR IN THIS CONTRACT.
- 6. ALL UNDERGROUND UTILITIES MUST BE IN PLACE AND PASS ALL TESTING OR INSPECTION REQUIREMENTS PRIOR TO BASE & SURFACE IMPROVEMENT CONSTRUCTION.
- 7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PERMIT AND INSPECTION REQUIREMENTS SPECIFIED BY THE VARIOUS GOVERNMENTAL AGENCIES AND THE ENGINEER. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION, AND SCHEDULE INSPECTIONS AND TESTING ACCORDING TO AGENCY REQUIREMENTS.
- 8. ALL WORK PERFORMED SHALL COMPLY WITH THE CODES, STANDARDS, REGULATIONS AND REQUIREMENTS OF THE CITY OF ORLANDO LAND DEVELOPMENT CODE AND ENGINEERING STANDARDS, PLUS THE CURRENT EDITION OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND UTILITY CONSTRUCTION. PLUS THE REGULATIONS AND ORDINANCES OF THE VARIOUS OTHER GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK.
- 9. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL PRECAST AND MANUFACTURED ITEMS TO THE OWNER'S ENGINEER FOR APPROVAL. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION COULD RESULT IN REMOVAL AND REPLACEMENT AT CONTRACTOR'S EXPENSE. THE ENGINEER'S REVIEW OF THE SHOP DRAWINGS IS FOR CONFORMITY WITH THE CONTRACT DOCUMENTS AND DOES NOT INCLUDE INDEPTH CHECK FOR THE ABILITY OF THE CONTRACTOR TO PERFORM THE WORK IN A SAFE OR EFFICIENT MANNER. THE ENGINEER'S REVIEW OF THE SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR DIMENSIONAL ACCURACY TO ENSURE FIELD FIT AND CONFORMITY OF THE VARIOUS COMPONENTS AND DETAILS.
- 10. CONTRACTOR SHALL KEEP ENGINEER ADVISED OF CONSTRUCTION SCHEDULE CHANGES SO THAT ENGINEER CAN SCHEDULE PERIODIC SITE VISITS AT APPROPRIATE TIMES IN ORDER TO PROVIDE CONSTRUCTION CERTIFICATIONS TO JURISDICTIONAL AGENCIES.
- 11. WORK PERFORMED UNDER THIS CONTRACT SHALL INTERFACE SMOOTHLY WITH OTHER WORK BEING PERFORMED ON SITE BY OTHER CONTRACTORS AND UTILITY COMPANIES. IT WILL BE NECESSARY FOR THE CONTRACTOR TO COORDINATE AND SCHEDULE HIS ACTIVITIES, WHERE NECESSARY, WITH OTHER CONTRACTORS AND UTILITY COMPANIES.

#### 12. SAFETY:

- A. DURING THE CONSTRUCTION AND/OR MAINTENANCE OF THIS PROJECT, ALL SAFETY REGULATIONS ARE TO BE ENFORCED. THE CONTRACTOR OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE TRAVELING PUBLIC AND THE SAFETY OF HIS PERSONNEL.
- B. LABOR SAFETY REGULATIONS SHALL CONFORM TO THE PROVISIONS SET FORTH BY OSHA IN THE FEDERAL REGISTER OF THE DEPARTMENT OF TRANSPORTATION.
- C. THE MAINTENANCE OF TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE CITY OF ORLANDO TRANSPORTATION ENGINEERING BUREAU AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- D. ALL TRAFFIC CONTROL MARKINGS AND DEVICES SHALL CONFORM TO THE PROVISIONS SET FORTH IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" PREPARED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.
- E. CONTACT THE CITY OF ORLANDO (SCOTT WALKER AT 407-246-2372) FOR MANAGEMENT OF TRAFFIC CONTROL REVIEW PRIOR AND DURING CONSTRUCTION.
- 12. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT NECESSARY FOR DEWATERING. DISCHARGE WATER FROM DEWATERING SHALL BE CLEAR WITH NO VISIBLE SOIL PARTICLES. DISCHARGE WATER FROM DEWATERING SHALL BE DISPOSED OF IN SUCH A MANNER THAT IT WILL NOT INTERFERE WITH THE NORMAL DRAINAGE OF THE AREA IN WHICH THE WORK IS BEING PERFORMED, OR CREATE PONDING. THE OPERATION SHALL NOT CAUSE ANY DAMAGE TO ANY PORTION OF THE WORK COMPLETED. OR IN PROGRESS. THE DEWATERING OPERATION SHALL COMPLY WITH THE REQUIREMENTS OF APPLICABLE REGULATORY AGENCIES AND THE GEOTECHNICAL REPORT PREPARED FOR THIS PROJECT. A PRE-WORK MEETING WILL BE CONDUCTED WITH THE GEOTECHNICAL FIRM, THE OWNER, THE CONTRACTOR, AND THE ENGINEER PRIOR TO BEGINNING ANY SITE EXCAVATION.
- 13. CONFORMITY WITH WORK IN THE EVENT THAT THE ENGINEER FINDS THAT THE CONTRACTOR HAS USED MATERIAL OR PRODUCED A FINISH PRODUCT THAT IS NOT REASONABLY CLOSE IN CONFORMITY WITH THE CONTRACT DOCUMENTS, I.E. UNSATISFACTORY PRODUCT, THE CONTRACTOR SHALL REMOVE AND REPLACE OR OTHERWISE CORRECT THE WORK OR MATERIALS AT NO EXPENSE TO THE OWNER.
- 14. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL FURNISH THE OWNER'S ENGINEER WITH COMPLETE "AS-BUILT" INFORMATION CERTIFIED BY A FLORIDA REGISTERED PROFESSIONAL. ONCE PROVIDED WITH "AS-BUILTS" AND AFTER OBSERVATION OF THE ENTIRE PROJECT, THE ENGINEER DETERMINES THAT THE CONTRACTOR HAS SATISFACTORILY COMPLETED THE WORK, THE ENGINEER WILL GIVE THE CONTRACTOR WRITTEN NOTICE OF FINAL ACCEPTANCE.
- 15. PIPE LENGTHS SHOWN ARE APPROXIMATE AND SHOULD BE ORDERED FROM FIELD STAKED QUANTITIES. PLAN PIPE LENGTHS ARE MEASURED FROM CONNECTION POINT TO END OF THE LINES FOR WATER LINES AND CENTER OF THE STRUCTURE FOR SANITARY SEWER LINES.
- 16. CONTRACTOR MUST REVIEW "MAINTENANCE OF UTILITY SERVICE PLAN" WITH ENGINEER AND UTILITY COMPANY PRIOR TO START OF UTILITY CONSTRUCTION.

#### STORMWATER SYSTEM NOTES:

- 1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY INVERTS AND LOCATIONS OF THE EXISTING STORM SEWER SYSTEM PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER IF ANY DISCREPANCY IN INVERTS AND LOCATIONS EXIST.
- 2. UNLESS OTHERWISE NOTED ON THE DRAWINGS, ALL CONSTRUCTION MATERIALS, METHODS, AND TESTING ARE TO CONFORM TO THE LATEST EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ITS CURRENT SUPPLEMENTS AND STANDARD DRAWING INDEX, AND CITY OF ORLANDO REQUIREMENTS AND SPECIFICATIONS, AS APPLICABLE.
- 3. ALL DISTURBED SODDED AREAS SHALL BE RESTORED TO ITS ORIGINAL CONDITION. ALL UNPAVED AND UNSODDED AREAS DISTURBED DURING THE CONSTRUCTION, SHALL BE SODDED IN ACCORDANCE WITH SECTION 575 OF FDOT STANDARD SPECIFICAITONS.
- 4. SURFACE DRAINAGE SHALL BE DIVERTED FROM EXCAVATIONS, AND STOCKPILE AREAS SUCH THAT PROPER SITE CONDITIONS ARE MAINTAINED AND EROSION DUE TO RAIN RUN-OFF OR SEEPAGE IS PREVENTED OR MINIMIZED.
- 5. STANDARD INDEXES REFER TO THE LATEST EDITION OF FDOT "ROADWAY AND TRAFFIC DESIGN

#### **SELECTIVE DEMOLITION NOTES:**

- 1. THE CONTRACTOR SHALL EXERCISE SPECIAL PRECAUTIONS FOR THE PROTECTION AND PRESERVATION OF TREES, SOD, FENCES, ETC., SITUATED WITHIN THE VICINITY OF THE PROJECT AREA OR TREE SAVE AREAS BUT NOT DIRECTLY WITHIN EXCAVATION AND/OR FILL LIMITS. THE CONTRACTOR SHALL BE HELD LIABLE FOR ANY DAMAGE AS A RESULT OF HIS OPERATIONS. TREES WHICH ARE SEVERELY DAMAGED OR DESTROYED OUTSIDE THE CLEARING LIMITS WILL BE PAID FOR BY THE CONTRACTOR IN WHOLE. MINOR DAMAGE INFLICTED TO TREE BRANCHES AND TRUNKS WILL BE REPAIRED, AT NO
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING TREE PROTECTION FENCING AROUND TREE SAVE AREAS WITHIN THE SITE, AS DIRECTED BY THE CITY ENGINEER. THE TREE PROTECTION FENCING SHALL BE IN ACCORDANCE WITH THE CITY OF ORLANDO STANDARDS AND

#### **GOVERNING SPECIFICATIONS:**

- A. GRADING, DRAINAGE AND PAVING MATERIALS AND CONSTRUCTION SHALL BE IN CONFORMANCE WITH FDOT AND/OR CITY OF ORLANDO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS SUPPLEMENTED BY DETAILS AND NOTES ON PLANS.
- B. SANITARY SEWER SYSTEM MATERIALS AND CONSTRUCTION SHALL BE IN CONFORMANCE WITH CITY OF ORLANDO PUBLIC WORKS DEPARTMENT, ENGINEERING STANDARDS MANUAL.
- C. WATER DISTRIBUTION SYSTEM MATERIALS AND CONSTRUCTION SHALL BE IN CONFORMANCE WITH ORLANDO UTILITIES COMMISSION'S STANDARDS AND SPECIFICATIONS EXCEPT AS NOTED ON PLANS.

#### **EXCAVATION. GRADING. AND PAVING NOTES:**

- 1. SEE GENERAL NOTES.
- ALL DELETERIOUS SUBSURFACE MATERIAL (I.E. MUCK, PEAT, BURIED DEBRIS) IS TO BE EXCAVATED IN ACCORDANCE WITH THESE PLANS OR AS DIRECTED BY THE OWNER, THE OWNER'S ENGINEER, OR OWNER'S SOIL TESTING COMPANY. DELETERIOUS MATERIAL IS TO BE STOCKPILED OR REMOVED FROM THE SITE AS DIRECTED BY THE OWNER. EXCAVATED AREAS ARE TO BE BACKFILLED WITH APPROVED MATERIALS AND COMPACTED AS SHOWN ON THESE PLANS. CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING DELETERIOUS MATERIAL FROM THE SITE.
- 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.
- ALL NECESSARY FILL AND EMBANKMENT THAT IS PLACED DURING CONSTRUCTION SHALL CONSIST OF MATERIAL SPECIFIED BY THE OWNER'S SOIL TESTING COMPANY OR ENGINEER AND BE PLACED AND COMPACTED ACCORDING TO THESE PLANS OR THE REFERENCED SOILS REPORT.
- PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT OR GROUND SURFACE GRADE UNLESS OTHERWISE NOTED ON DRAWINGS.
- CONTRACTOR SHALL SAW-CUT EXIST. PAVEMENT TO PROVIDE CLEAN JOINT. REMOVE EXISTING PAVEMENT FOR NEW INSTALLATION AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT.
- REFER TO THE LATEST EDITION OF FDOT "ROADWAY AND TRAFFIC DESIGN STANDARDS" FOR DETAILS AND SPECIFICATIONS OF ALL FDOT TYPE CURBING AND GUTTER CALLED FOR IN THESE
- CONTRACTOR TO PROVIDE A 1/2" BITUMINOUS EXPANSION JOINT MATERIAL WITH SEALER WHERE CONCRETE ABUTTS BUILDINGS. OTHER CONCRETE, OR OTHER RIGID MATERIALS.
- ALL PAVEMENT MARKINGS SHALL BE MADE WITH PERMANENT THERMOPLASTIC AND SHALL CONFORM TO FDOT STANDARDS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SURVEY MONUMENTATION DISTURBED MONUMENTATION SHALL BE RESTORED AT CONTRACTOR'S EXPENSE BY A SURVEYOR SELECTED BY THE OWNER.
- 11. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE SOILS ENGINEER FOR APPLICABLE TESTING UPON COMPLETION OF THE WORK. THE SOILS ENGINEER WILL SUBMIT CERTIFICATIONS TO THE OWNER AND OWNER'S ENGINEER STATING THAT ALL REQUIREMENTS HAVE BEEN MET.
- 12. TESTING AND INSPECTION TO BE PERFORMED BY A QUALIFIED INDEPENDENT TESTING LABORATORY, UNDER THE SUPERVISION OF A REGISTERED ENGINEER, SPECIALIZING IN SOILS ENGINEERING. PERFORM ALL TESTING NECESSARY AS REQUIRED BY THESE PLANS AND THE VARIOUS PERMITTING AGENCIES. THE CONTRACTOR WILL PAY THE COSTS OF ALL INITIAL TESTING. SHOULD RETESTING BE REQUIRED DUE TO THE FAILURE OF ANY TESTS TO MEET SPECIFICATIONS, THE CONTRACTOR SHALL BEAR ALL COSTS OF SAID RETESTING.

#### **ABBREVIATIONS:**

OUC - ORLANDO UTILITIES COMMISSION

FDOT - FLORIDA DEPARTMENT OF TRANSPORTATION

FOR STANDARD ABBREVIATIONS REFER TO THE FDOT STANDARD INDEX 001, UNLESS OTHERWISE NOTED ON

#### **UTILITY PROVIDERS:**

POTABLE WATER: ORLANDO UTILITIES COMMISSION 500 S ORANGE AVE ORLANDO, FLORIDA 32801 PH: (407) 423-9101 FAX: (407) 236-9628

FIRE PROTECTION: CITY OF ORLANDO FIRE DEPARTMENT 400 S ORANGE AVENUE ORLANDO, FLORIDA 32801 PH: (407) 246-2390 FAX: (407) 246-2512

STORMWATER: ST. JOHNS RIVER WATER MANAGEMENT DISTRICT 975 KELLER ROAD ORLANDO, FL 32714-1618 PH: (407) 659-4830 FAX: (407) 659-4805

**WASTEWATER:** CITY OF ORLANDO BUREAU OF WASTEWATER 5100 LB McLEAD ROAD ORLANDO, FL 32811 PH: (407) 246-2670 FAX: (407) 246-3862

> O.U.C. ELECTRIC 6003 PERSHING AVENUE ORLANDO, FL 32822 PH: (407) 384-4173

**COMMUNICATIONS, OTHER:** BRIGHT HOUSE NETWORKS 3767 ALL AMERICAN BOULEVARD ORLANDO, FLORIDA 32810 PH: (407) 291-2500 FAX: (407) 578-0979

BELL SOUTH TELECOMMUNICATIONS 450 NORTH GOLDENROD ROAD ORLANDO, FL 32807 PH: (407) 273-5084 FAX: (407) 277-7241

NATURAL GAS: TECO/PEOPLES GAS 600 WEST ROBINSON STREET ORLANDO, FL 32801 PH: (407) 420-6607 FAX: (407) 839-0768

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### AECOM

**PROJECT** 

LAKE BEAUTY PARK

30 WEST MILLER STREET ORLANDO, FL 32801

**CLIENT** 

ORLANDO HEALTH

1414 KUHL AVENUE ORLANDO, FL 32806

000 000 0000 tel 000 000 0000 fax www.orlandohealth.com

LANDSCAPE ARCHITECT

AECOM TECHNICAL SERVICES, INC. 150 North Orange Avenue, Suite 200 Orlando, FL 32801

407 843 9552 tel 407 839 1789 fax

www.aecom.com CONSULTANTS

407 423 8398 tel

**CIVIL ENGINEER** GAI Consultants, Inc. 618 South Street, Suite 700 Orlando, FL 32801



gai consultants

REGISTRATION

10 MARCH 2011 SURWAID PERMIT SET

DESCRIPTION

**KEY PLAN** 

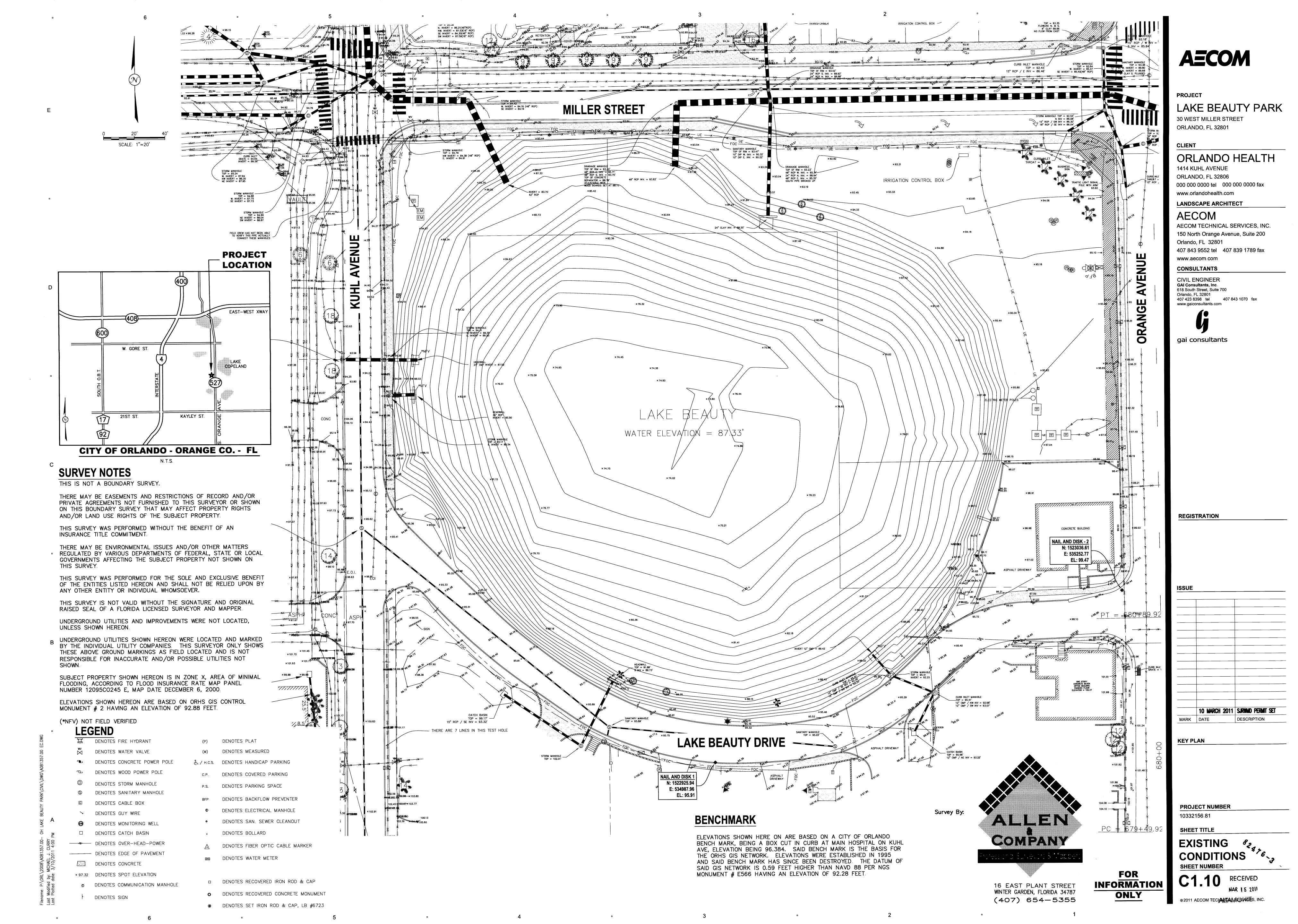
PROJECT NUMBER 10332156.81

SHEET TITLE

**SHEET NUMBER** C1.00

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**GENERAL NOTES** 



#### **EROSION AND SEDIMENTATION CONTROL NOTES**

- 1. THE CONTRACTOR MUST IMPLEMENT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES REQUIRED TO RETAIN SEDIMENT ON-SITE AND TO PREVENT VIOLATIONS OF THE WATER QUALITY CRITERIA AND STANDARDS IN CHAPTERS 62-4, 62-302, F.A.C. ALL EROSION/SEDIMENT CONTROL PRACTICES MUST BE IN ACCORDANCE WITH THE GUIDELINES AND SPECIFICATIONS IN SECTION 6 OF THE FLORIDA LAND DEVELOPMENT MANUAL: A GUIDE TO SOUND LAND AND WATER MANAGEMENT (FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION 1988), AS WELL AS THE ORANGE COUNTY WATER QUALITY CODE AND THE FLORIDA STORMWATER, EROSION AND SEDIMENTATION CONTROL INSPECTORS HANDBOOK, UNLESS A PROJECT-SPECIFIC EROSION AND SEDIMENT CONTROL PLAN IS APPROVED BY THE WATER MANAGEMENT DISTRICT IN WHICH CASE THE PRACTICES MUST BE IN ACCORDANCE WITH THE PLAN. IF SITE SPECIFIC CONDITIONS REQUIRE ADDITIONAL MEASURES DURING ANY PHASE OF CONSTRUCTION OR OPERATION TO PREVENT EROSION OR CONTROL SEDIMENT, THE CONTRACTOR MUST IMPLEMENT THE NECESSARY ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES.
- 2. STABILIZATION MEASURES SHALL BE INITIATED FOR EROSION AND SEDIMENT CONTROL ON DISTURBED AREAS AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
- 3. THE LOCATION AND TYPE OF THE EROSION CONTROL MEASURES SHOWN ON THESE DRAWINGS ARE PROVIDED FOR GENERAL GUIDANCE TO THE CONTRACTOR. THE METHODS AND SEQUENCING OF CONSTRUCTION EMPLOYED BY THE CONTRACTOR MAY REQUIRE MORE OR LESS EROSION CONTROL MEASURES THAN THAT DEPICTED TO MAINTAIN ADEQUATE EROSION AND SEDIMENT CONTROL FOR THE CONSTRUCTION ACTIVITIES.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTION OF ANY EROSION, SEDIMENTATION, SHOALING OR WATER QUALITY PROBLEMS THAT RESULT FROM THE CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL USE APPROPRIATE BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL AS DESCRIBED IN THE FLORIDA LAND DEVELOPMENT MANUAL, A GUIDE TO SOUND LAND AND WATER MANAGEMENT (DEP, 1988) AND/OR ACCORDING TO FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS FOR EROSION CONTROL APPLICATIONS AND ACCORDING TO THE ORANGE COUNTY WATER QUALITY CODE AND THE FLORIDA STORMWATER, EROSION AND SEDIMENTATION CONTROL INSPECTORS HANDBOOK.
- 5. MEASURES SHALL BE TAKEN BY THE CONTRACTOR TO INSURE THAT SEDIMENTATION AND/OR TURBIDITY PROBLEMS ARE NOT CREATED IN THE RECEMING WATER.
- 6. PRIOR TO BEGINNING THE CLEARING AND GRUBBING OF THE SITE, SYNTHETIC BALES SHALL BE STAKED TO THE GROUND ALONG THE PROPERTY LINE AT LOW AREAS IN ADDITION TO THE PERIMETER SILT FENCE TO PREVENT STORMWATER FROM WASHING ERODED SOIL FROM THE SITE.
- 7. THE SITE SHALL BE GRADED SUCH THAT ALL STORMWATER WILL BE DIRECTED INTO THE ON-SITE STORMWATER SYSTEM. SYNTHETIC BALES SHALL BE STAKED IN LOCATIONS WHERE WATER ENTERS THE SYSTEM TO FILTER OUT THE ERODED SOILS AND CONSTRUCTION FINES. CONTRACTOR SHALL MAKE PROVISIONS TO AVOID TRACKING DIRT AND CONSTRUCTION DEBRIS TO THE ROADWAY VIA TRUCK AND EQUIPMENT TIRES.
- 8. SILT FENCE SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH FDOT STANDARDS AND SPECIFICATIONS, AND THE CONTRACT DRAWINGS.
- 9. CONTRACTOR SHALL REPLACE CLOGGED SECTIONS OF SILT FENCES AND PERFORATED PIPE WITH FABRIC SOCK AS NECESSARY TO MAINTAIN WATER PASSAGE.
- 10. CONTRACTOR SHALL PROVIDE SEDIMENT CONTROL DURING INSTALLATION OF NEW CURBING AND DRIVEWAYS AS APPROVED BY THE ENGINEER.
- 11. CONTRACTOR SHALL TAKE CARE TO KEEP EXPOSED AREAS TO A MINIMUM POSSIBLE TIME DURING
- 12. ON-SITE CONTROL MEASURES SHALL BE APPLIED TO REDUCE EROSION AS SHOWN ON THE PLANS, DETAIL SHEETS AND IN ACCORDANCE WITH FDOT, FDEP AND ORANGE CO. REGULATIONS FOR EROSION CONTROL MEASURES, STOCKPILING AND STORAGE OF MATERIALS SHOULD NOT BE LOCATED IN A MANNER TO IMPEDE FLOW OR CAUSE MATERIALS TO BE ERODED BY STORMWATER RUNOFF.
- 13. ALL TEMPORARY SEDIMENTATION CONTROL STRUCTURES AND MEASURES TO BE USED DURING CONSTRUCTION SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION ACTIVITY AND SHALL BE MAINTAINED IN AN EFFECTIVE CONDITION UNTIL SUCH TIME AS THE COMPLETION OF THE PERMANENT SYSTEM OR OTHER EROSION CONTROL MEASURES CAN ASSURE ADEQUATE EROSION AND SEDIMENT CONTROL.

#### **ENGINEER CERTIFICATION**

I CERTIFY THAT I PREPARED THE SWPPP FOR THE REFERENCED SITE. TO THE BEST OF MY KNOWLEDGE, THE SWPPP MEETS THE INTENT AND REQUIRMENTS OF THE NPDES GENERAL PERMIT NO. FLR100000, AND IS IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS WHICH GOVERN THE DISCHARGES FROM CONSTRUCTION

SIGNATURE	DATE
NAME AND	TITLE
	GAI CONSULTANTS, INC.
COMPANY	
	301 E PINE STREET, ORLANDO, FLORIDA 32801
ADDRESS	

#### CONTRACTOR CERTIFICATION

"I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH THE INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS A PART OF THIS CERTIFICATION."

SIGNATURE		DATE	
PROJECT MANAGER			
NAME AND TITLE			
COMPANY			<u> </u>
ADDRESS (CONTRAC	CTING FIRM)		
ADDRESS (CONSTR	UCTION SITE)		
TELEPHONE:	ARFA CODE	NIIMRER	<del></del>

#### GENERAL CONSTRUCTION NOTES

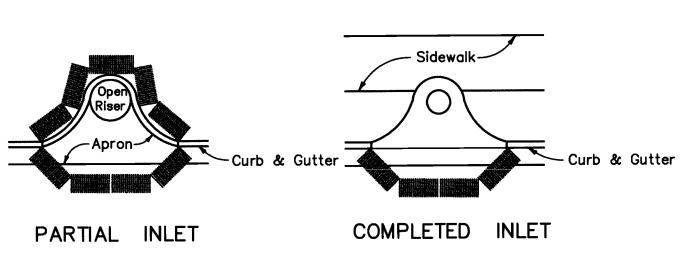
24 HOURS PRIOR TO BEGINNING GRADE WORK.

DEMOLITION PLAN, SHEET C2.00.

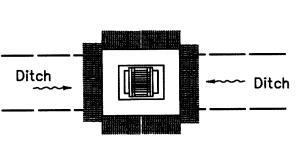
16 EAST PLANT STREET

at the jobsite.

- 1. ALL CONSTRUCTION SHALL CONFORM TO THESE DRAWINGS AND SPECIFICATIONS.
- 2. THE CONTRACTOR SHALL PERFORM A "SUNSHINE ONE-CALL" PRIOR TO EXCAVATIONS.
- 3. THE CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITS PRIOR TO CONSTRUCTION AND MAINTAIN COPIES
- 4. THE LOCATION OF ALL EXISTING UTILITIES AND STORM DRAINAGE SHOWN ON THE PLANS IS APPROXIMATE AND HAS BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND IS GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE OWNER/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, FIELD DETERMINE THE EXACT LOCATION OF UTILITIES AND TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATION OF THESE UTILITIES WITH THE OWNER OF THE UTILITY IF CONFLICTS EXIST. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING UNDERGROUND UTILITY AND ALL EXISTING UTILITIES SHALL BE PROTECTED.
- 5. THE CONTRACTOR SHALL COORDINATE ALL TREE REMOVALS REQUIRED BY CONSTRUCTION WITH THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL STRIVE TO PROTECT AS MANY TREES AS POSSIBLE DURING CONSTRUCTION OPERATIONS. COORDINATE EFFORTS WITH AREA DEVELOPMENT PLANS.
- 6. THE CONTRACTOR IS ADVISED TO BRING ANY LAYOUT DISCREPANCIES TO THE IMMEDIATE ATTENTION OF THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
- 7. ALL PAVEMENT MARKINGS SHALL CONFORM TO THE LATEST M.U.T.C.D. AND F.D.O.T. SPECIFICATIONS.
- 8. COORDINATE WITH LOCAL EMERGENCY SERVICES AND PROVIDE EMERGENCY ACCESS CORRIDOR THROUGHOUT
- 9. CONTACT LOCAL ENVIRONMENTAL COMPLIANCE OFFICIAL FOR APPROVAL OF EROSION CONTROL MEASURES
- 10. MATERIALS INTERFERING WITH CONSTRUCTION SHALL BE DISPOSED OF AS DIRECTED BY THE OWNER.
- 11. ALL EXCESS DIRT, CLEARING DEBRIS, UNSUITABLE MATERIALS AND EXISTING ROADWAY MATERIAL RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE HAULED OFF DAILY IN A LEGAL MANNER.
- 12. THE CONTRACTOR SHALL PROVIDE A LEVEL GROUND SURFACE AREA ACCESSIBLE TO THE HAUL ROADS AND CONTRUCTION ENTRANCE FOR MATERIAL LAY-DOWN AND CONSTRUCTION STAGING. THE AREA SHALL BE
- DELINEATED WITH SAFETY FENCING AND SILT FENCE SHALL BE INSTALLED ALONG THE DOWNHILL BOUNDARY. 13. EXISTING TOPOGRAPHY AND ROADWAY DATA SHOWN ARE BASED UPON TOPOGRAPHIC SURVEYS BY:
- WINTER GARDEN, FL 34787 14. CONTRACTOR SHALL CONFINE HIS OFF-SITE ACTIVITIES TO LIMITS OF CONSTRUCTION AS DEPICTED ON THE
- 15. ANY PUBLIC LAND CORNER, WITHIN THE LIMITS OF CONSTRUCTION, IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHALL NOTIFY THE OWNERS REPRESENTATIVE WITHOUT DELAY.
- 16. SOILS DATA GEOTECHNICAL REPORT PREPARED BY GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC.
- (GEC). (GEC PROJECT NO. 2405G2, DATED 10-12-2006) 17. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL THE REQUIRED CONSTRUCTION PERMITS HAVE
- BEEN OBTAINED PRIOR TO COMMENCING WORK. 18. ALL REFERENCES TO PROPOSED CONSTRUCTION INDICATES CONSTRUCTION INCLUDED IN THIS CONTRACT.
- 19. SWEEP ABUTTING STREETS, SIDEWALKS, AND DRIVEWAYS, DAILY OR AS REQUIRED BY OWNER.

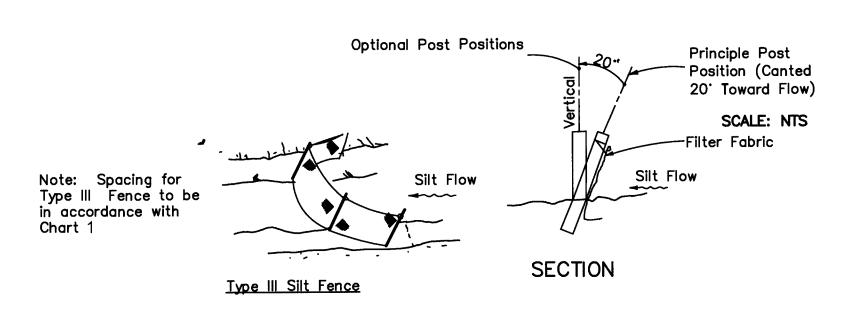


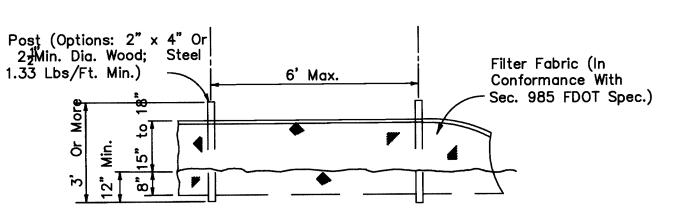
Anchor Synthetic Bales or Sediment Filter Logs



DITCH BOTTOM INLET







**ELEVATION** ALL SILT FENCING SHALL COMPLY WITH THE LATEST FLORIDA EROSION AND SEDIMENT CONTROL INSPECTOR'S MANUAL, SECTION 4.06

2 TYPE II SILT FENCE

NOTE: PROVIDE SEDIMENT BARRIERS AT ALL STORM SEWER INLETS RECEIVING DRAINAGE FROM THIS SITE.

#### CONSTRUCTION ACTIVITIES AND **CONTRACTOR RESPONSIBILITIES**

- 1. THE CONTRACTOR SHALL BECOME FAMILIAR WITH AND ABIDE BY ALL PERMIT CONDITIONS, INSPECTIONS, SCHEDULES, AND OTHER RELEVANT REGULATORY AGENCY RULES AND REGULATIONS.
- 2. BMPs: SYNTHETIC BALES OR SEDIMENT FILTER LOGS.
- 3. <u>Inlet Protection:</u> Perforated PIPE wrapped in filter fabric (filter logs).
- TEMPORARY SLOPE STABILIZATION: CONTRACTOR SHALL PROVIDE FOR THE SAFETY OF TEMPORARY SOIL ENBANKMENT AND SHORING REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER.
- 5. POTENTIAL POLLUTANTS DURING CONSTRUCTION: DELETERIOUS, TOXIC, OR CONTAMINATED MATERIAL, IF INCOUNTERED, IS TO BE STOCKPILED OR REMOVED FROM THE SITE AS DIRECTED BY THE OWNER AND DISPOSED OF IN APPROVED LANDFILL. CONTACT LOCAL EMERGENCY OFFICIALS REPRESENTATIVES IN CASE OF ANY SPILLS OR CONTAMINATION OF A CHEMICAL NATURE (CALL FDEP 407-894-7555) PRIOR TO ANY
- INSPECTIONS: CONTRACTOR TO INSPECT CONSTRUCTION SITE FOR EROSION PROBLEMS ONCE A WEEK AND AFTER EACH RAINFALL GREATER THAN 0.5 INCHES. CONTRACTOR TO PROVIDE AND MONITOR A RAIN GAUGE ON SITE AND RECORD DAILY RAINFALL AMOUNTS.
- PERMANENT STORMWATER MANAGEMENT CONTROLS: RETENTION AND DETENTION/EXFILTRATION SYSTEMS, STORMWATER SEWER SYSTEM, PLUS STORMWATER CONTROL STRUCTURE IS TO PREVENT TRASH FROM GOING TO CITY'S DRAINAGE SYSTEM.
- 8. <u>DEWATERING:</u> IN GENERAL, WATER FROM CONTAMINATED AREAS ARE TO BE DISCHARGED TO SANITARY SEWER SYSTEM AND WATER FROM NON-CONTAMINATED AREAS ARE TO BE DISCHARGED INTO STORM SEWER SYSTEM. THE DEWATERING OPERATION SHALL COMPLY WITH THE REQUIREMENTS OF F.D.E.P., THE NPDES PERMIT, AND THE GEOTECHNICAL REPORT.
- 9. CONTRACTOR SHALL MAKE AN EFFORT TO MINIMIZE THE AREA OF DISTURBANCE AND WILL BE RESPONSIBLE FOR ALL DAMAGES. ALL EXISTING SODDED AREAS DISTURBED DURING THE CONSTRUCTION SHALL BE REPLACED WITH THE SAME TYPE OF SOD IN CONFORMANCE WITH THE STANDARD SPECIFICATIONS WITHIN 7 DAYS OF FINAL GRADING.
- 10. SURFACE DRAINAGE SHALL BE DIVERTED FROM EXCAVATIONS AND STOCKPILE AREAS SUCH THAT PROPER SITE CONDITIONS ARE MAINTAINED AND EROSION DUE TO RAIN RUN-OFF OR SEEPAGE IS PREVENTED OR
- 11. INLETS AND CATCH BASINS SHALL BE PROTECTED FROM SEDIMENT UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS. EROSION CONTROL AT ALL INLET DRAINAGE STRUCTURES DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FLORIDA STORMWATER, EROSION AND SEDIMENTATION CONTROL INSPECTORS HANDBOOK.
- 12. NO FERTILIZERS, HERBICIDES, OR PESTICIDES ARE TO BE USED ON-SITE WITHOUT PRIOR APPROVAL OF CITY OR COUNTY STAFF.
- 13. AFTER ALL CONSTRUCTION IS COMPLETE, ALL STRUCTURES AND STORM SEWER PIPES IN THE SYSTEM SHALL BE CLEANED AND TEMPORARY PLUGS IN STRUCTURES SHALL BE REMOVED.
- 14. ADDITIONAL NOTES: IF NECESSARY, CONTRACTOR SHALL INSTALL TURBIDITY BARRIER, AND USE STREET SWEEPER TO CLEAN ANY OFF-SITE TRACKING OF SOIL. CONTRACTOR IS RESPONSIBLE FOR INSTALLING ANY ADDITIONAL EROSION CONTROL IF IT BECOMES NECESSARY TO MEET STATE AND LOCAL STANDARDS AND TO COMPLY WITH THIS PLAN.
- 15. WASTE DISPOSAL: ALL WASTE SUCH AS DISCARDED BUILDING MATERIALS, CHEMICALS, LITTER, AND sanitary waste shall be properly controlled in accordance with all applicable state, local, AND FEDERAL REGULATIONS. THERE SHOULD BE NO DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIALS. TO SURFACE WATERS OF THE STATE OR AN MS4.

#### STORMWATER POLLUTION PREVENTION PLAN NOTES:

LOCATION: THE 4.45 ACRE SITE IS LOCATED IN THE CITY OF ORLANDO, ORANGE COUNTY, FLORIDA

LIMITS OF CONSTRUCTION: 4.45± ACRES WILL BE DISTURBED DURING CONSTRUCTION. CONSTRUCTION ACTIVITIES: CLEARING AND GRUBBING OF EXISTING SITE; GRADING OPERATIONS; CONSTRUCTION

OF NEW ROADWAY AND CURBING, AND PARK IMPROVEMENTS. SOIL TYPES: REFER TO THE GEOTECHNICAL REPORT FOR THE ON-SITE SOIL CLASSIFICATIONS.

GENERAL CONSTRUCTION SEQUENCE:

- INSTALL SILT FENCE AROUND PERIMETER OF WORK AREAS, AND EX. INLET PROTECTION. GENERAL SITE CLEARING AND GRUBBING, AND UTILITY ADJUSTMENTS.
- GRADE ROAD. 4. INSTALL UNDERGROUND UTILITIES.
- CONSTRUCT CURBING, SIDEWALKS, AND PARK IMPROVEMENTS.
- INSTALL LANDSCAPING. 8. REMOVE TEMP. PROTECTION SYSTEMS.
- STORMWATER DISCHARGE: STORMWATER DISCHARGE IS TO CONVEY TO THE CITY'S STORWATER SEWER SYSTEM.

ALL STORMWATER DISCHARGED FROM WORK SITE MUST MEET APPLICABLE QUALITY STANDARDS.

**PROJECT** 

LAKE BEAUTY PARK

30 WEST MILLER STREET ORLANDO, FL 32801

CLIENT

ORLANDO HEALTH

1414 KUHL AVENUE ORLANDO, FL 32806 000 000 0000 tel 000 000 0000 fax

www.orlandohealth.com LANDSCAPE ARCHITECT

AECOM TECHNICAL SERVICES, INC. 150 North Orange Avenue, Suite 200 Orlando, FL 32801

407 843 9552 tel 407 839 1789 fax

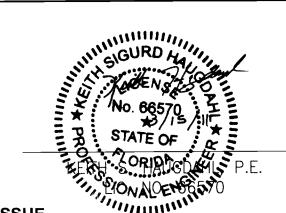
www.aecom.com CONSULTANTS

CIVIL ENGINEER GAI Consultants, Inc. 618 South Street, Suite 700 407 423 8398 tel 407 843 1070 fax www.gaiconsultants.com



gai consultants

**REGISTRATION** 



MARK DATE DESCRIPTION

**KEY PLAN** 

PROJECT NUMBER

10332156.81

SHEET TITLE STORMWATER POLLUTION **PREVENTION PLAN NOTES &** 

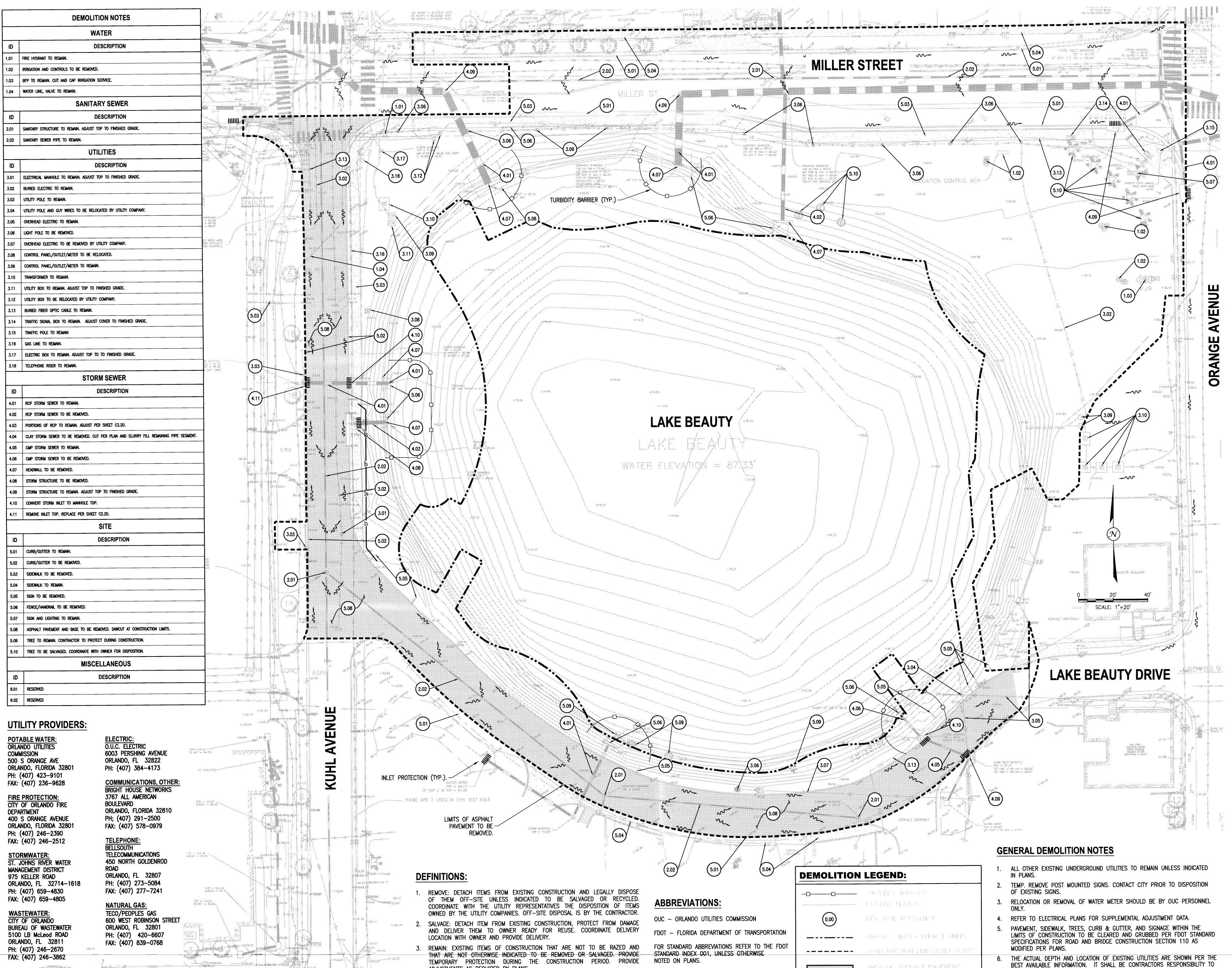
**DETAILS** SHEET NUMBER C1.20

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ADJUSTMENTS AS REQUIRED BY PLANS.

**AECOM** 

**PROJECT** 

LAKE BEAUTY PARK 30 WEST MILLER STREET

ORLANDO, FL 32801

**CLIENT** 

ORLANDO HEALTH

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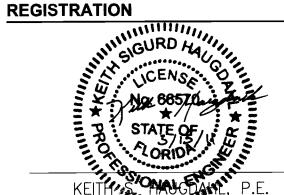
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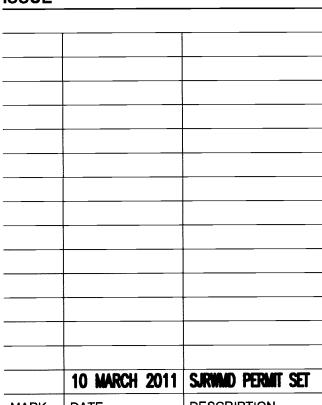
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407 423 8398 tel www.gaiconsultants.com

**CONSULTANTS CIVIL ENGINEER** GAI Consultants, Inc. 618 South Street, Suite 700

gai consultants





**KEY PLAN** 

PROJECT NUMBER

SHEET TITLE

10332156.81

COORDINATE CROSSINGS OF EXISTING UTILITIES WITH THE OWNER OF UTILITIES.

**DEMOLITION PLAN & EROSION CONTROL** 

SHEET NUMBERECEIVED

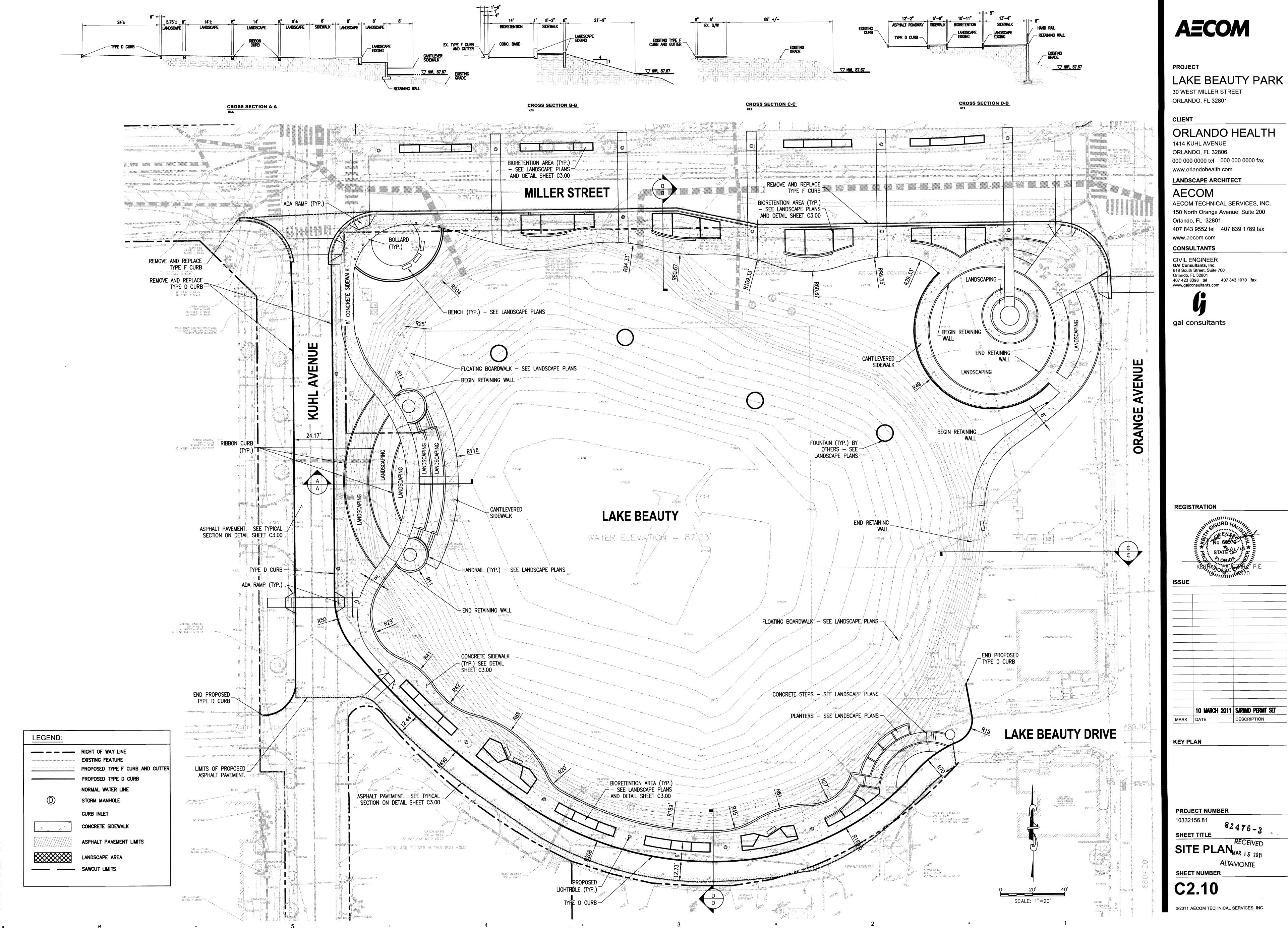
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AREA OF ASPHALT PAVEMENT

THE REPENDINED



30 WEST MILLER STREET

ORLANDO HEALTH

000 000 0000 tel 000 000 0000 fax

AECOM TECHNICAL SERVICES, INC. 150 North Orange Avenue, Suite 200

407 843 9552 tel 407 839 1789 fax

Orlando, FL 32801 407 423 8398 tel 407 843 1070 fax

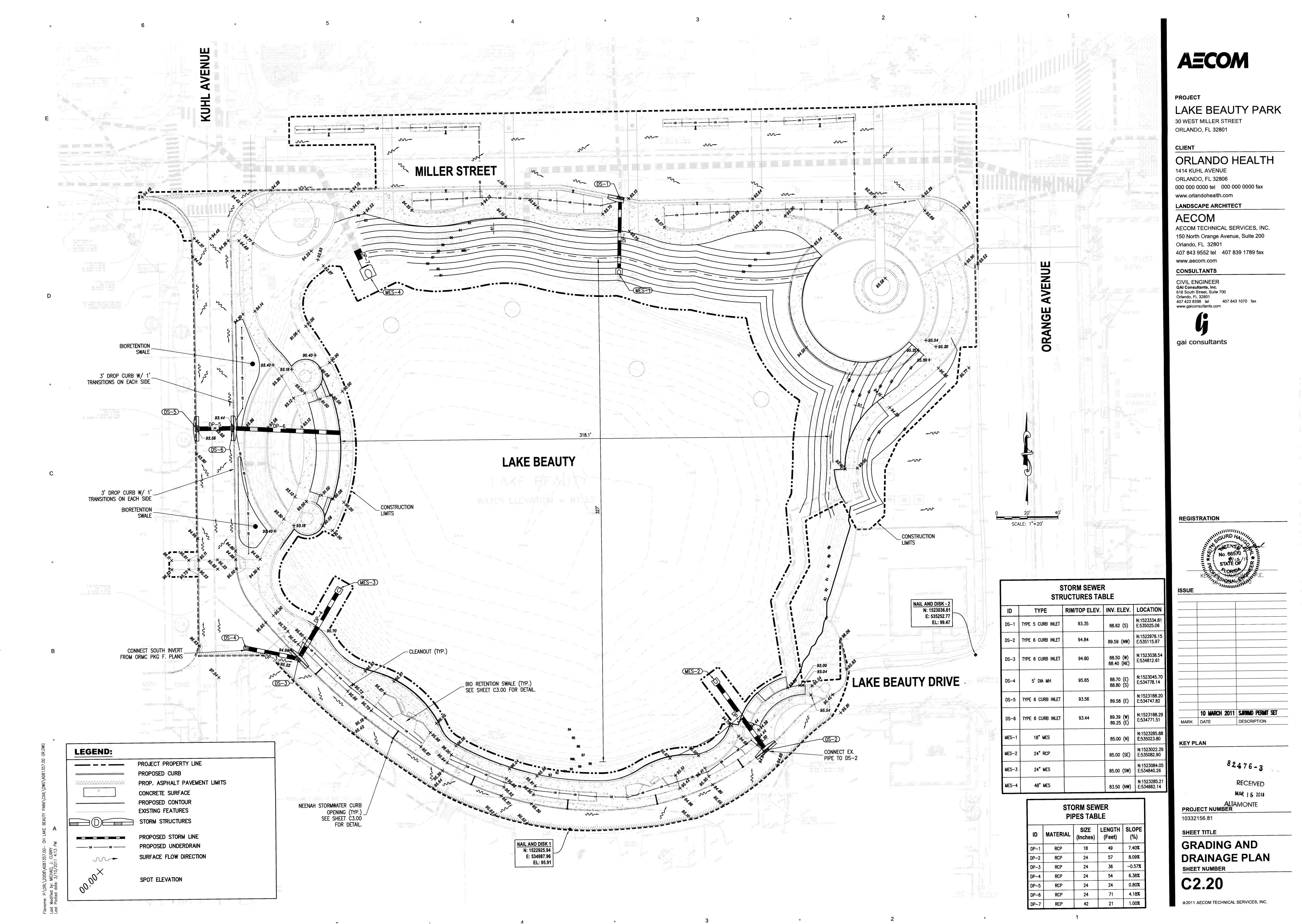


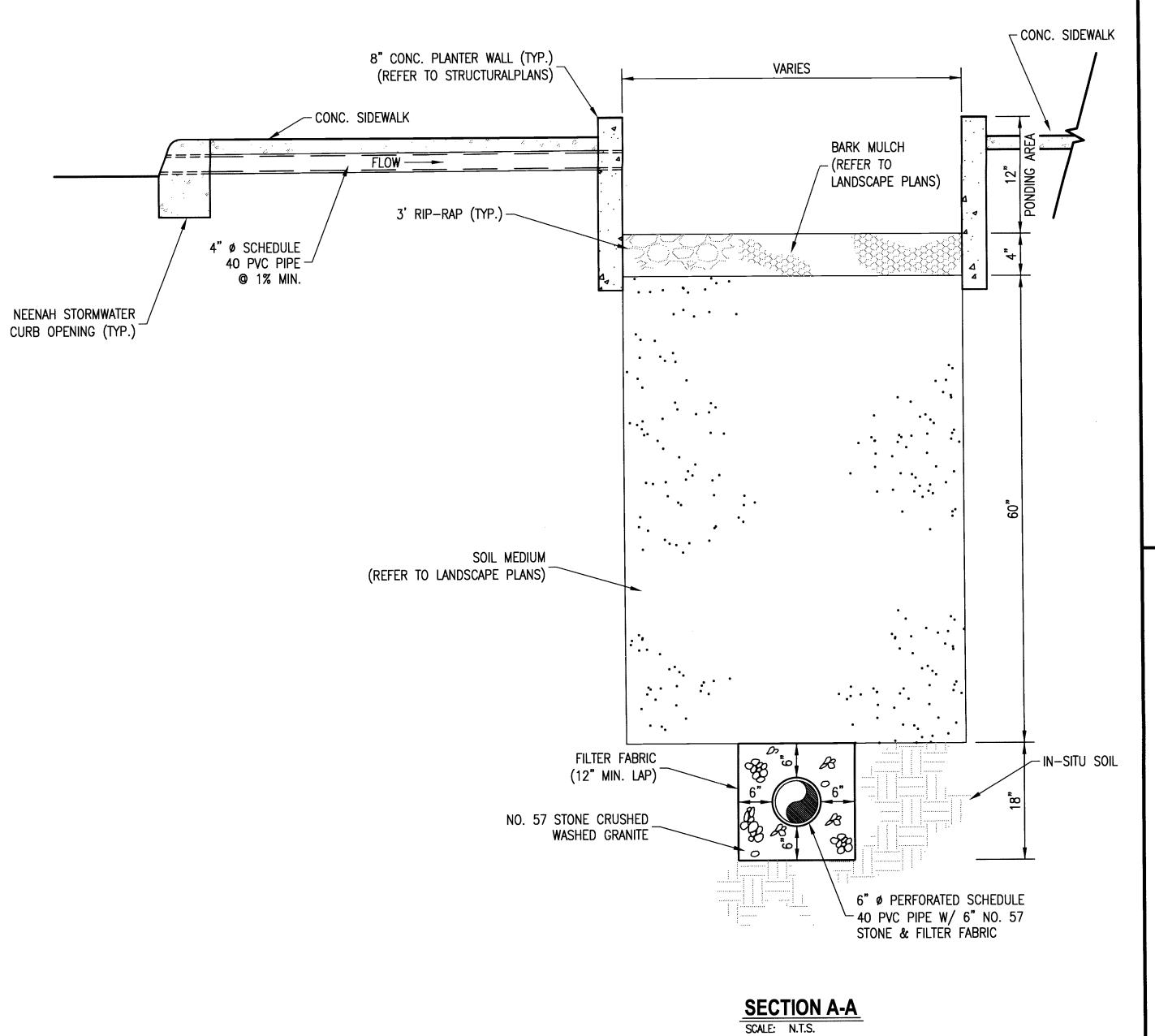
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**ALTAMONTE** 

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CROWN TRENCH IN UNIMPROVED AREAS A MIN.

OF 3 INCURS OF THE W/ SIZE OF PIPE OF 3-INCHES. SEE NOTE-9 FINISHED GRADE -SEE NOTE-8 - SEE NOTE 3 COMMON FILL ---12" (TYP.) SELECT COMMON FILL -SEE NOTE-5 UNDISTURBED EARTH -

1. PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 95% OF THE

MAXIMUM DENSITY AS PER AASHTO T-180. 2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 98% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.

3. USE 15-INCHES MAX. FOR PIPE DIAMETER LESS THAN 24"0, AND

24-INCHES MAX. FOR PIPE DIAMETER 24" AND LARGER.

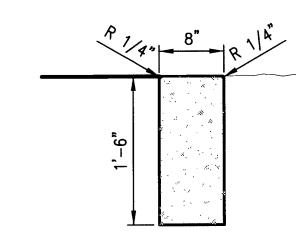
4. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION. MAINTAIN WATER LINE AT LEAST 2-INCHES BELOW TRENCH BOX. 5. TYPE-A BEDDING MAY BE REQUIRED BASED ON UNSUITABLE SOILS CONDITIONS. FOR TYPE-A PIPE BEDDING USE: GRANULAR OR FLOWABLE FILL MATERIAL CONFORMING TO FDOT INDEX 307. TYPE-A BEDDING MIN. THICKNESS BELOW PIPE OF 4-INCHES FOR PIPES LESS THAN 18" AND

UNSUITABLE MATERIAL SHALL GOVERN DEPTH OF BEDDING. 6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.

6-INCHES FOR PIPES 18" AND OVER. DEPTH OF REMOVAL OF

7. INSTALL MARKING TAPE PER TECHNICAL SPECIFICATIONS. 8. TRENCH WALLS SHALL BE SHEETED IN AREAS WHERE SIDE SLOPES WOULD INTERFERE WITH EXISTING UTILITIES IMPROVEMENTS, OR EXTEND BEYOND THE PROPERTY OR R.O.W. BOUNDARY. EXCAVATION AND SHEETING AND BRACING SHALL BE DONE IN ACCORDANCE WITH THE FLORIDA "TRENCH SAFETY ACT" (ss. 553.60-553.64) AND THE LATEST EDITION OF THE FDOT CONSTRUCTION MANUAL.

9. SITE RESTORATION SHALL COMPLY WITH APPLICABLE R.O.W. UTILIZATION REGULATIONS. ALL DISTURBED CONSTRUCTION AREAS SHALL BE RESTORED TO, OR BETTER THAN, PRE-EXISTING CONDITIONS.



**8" RIBBON CURB** 

**BEDDING AND TRENCHING DETAIL** 

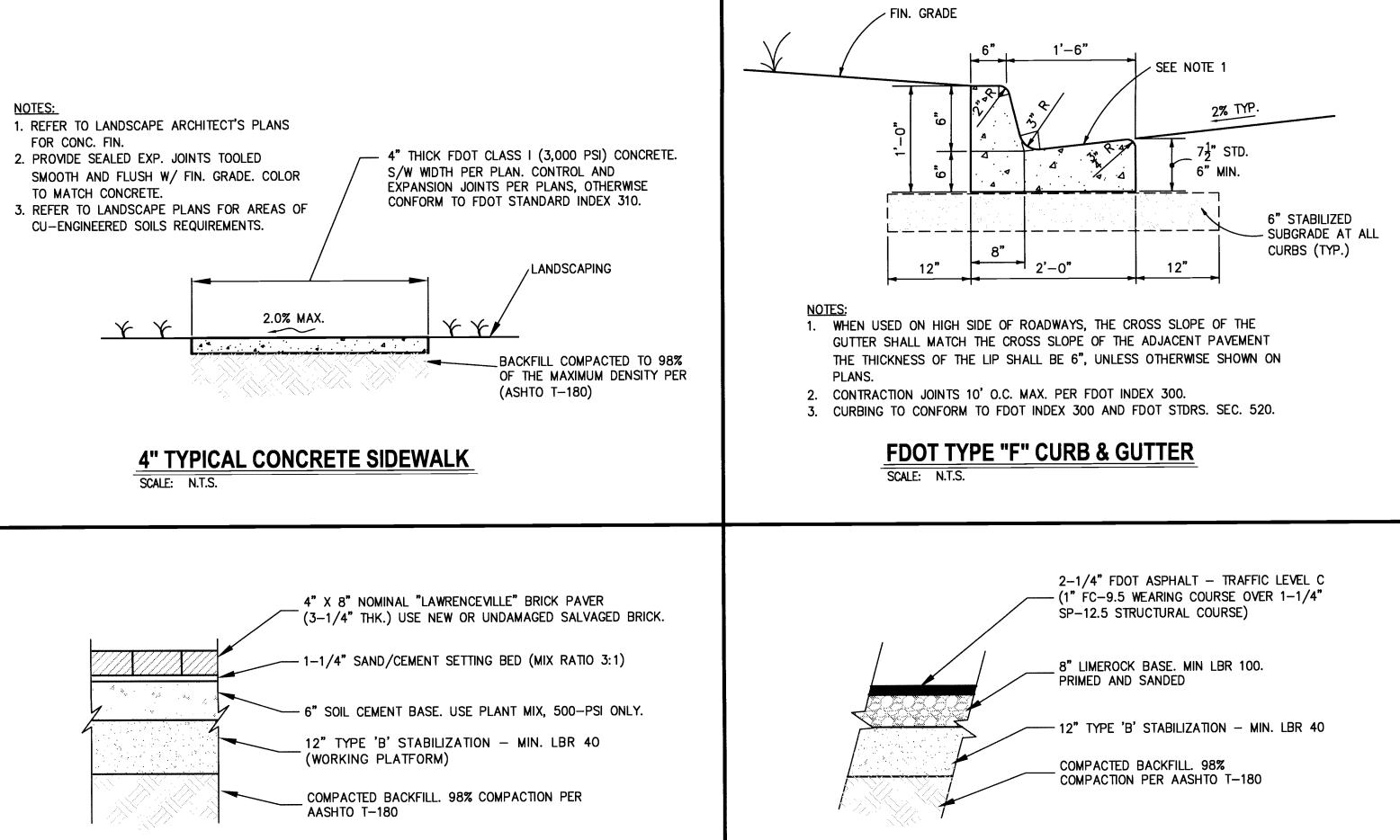
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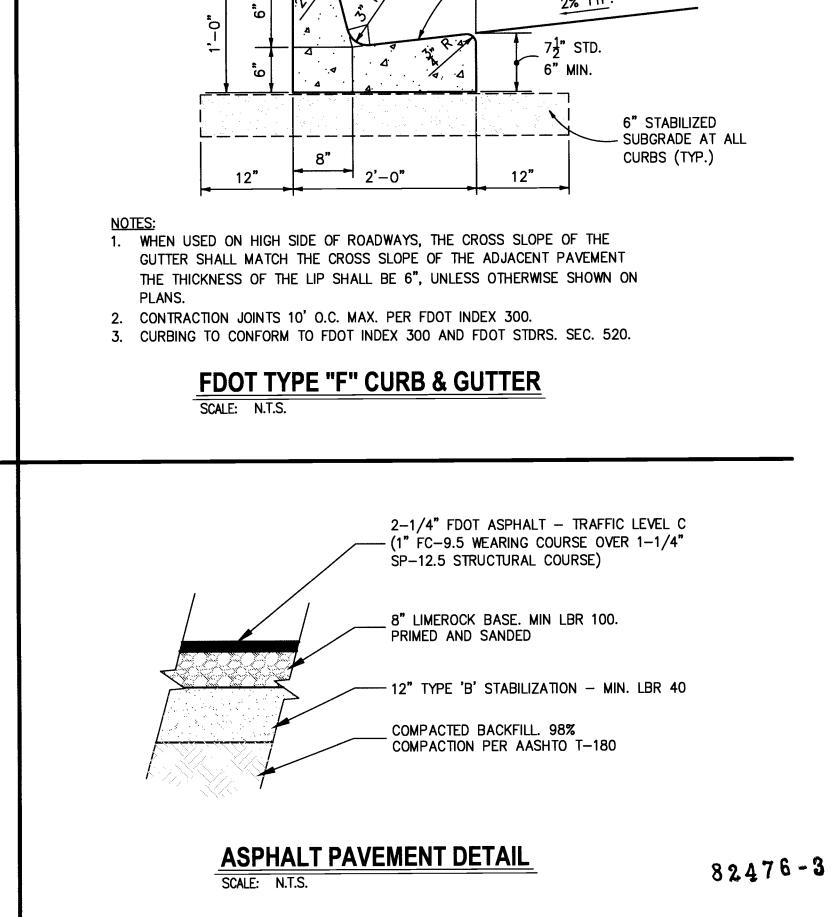
STREET BRICK PAVEMENT DETAIL

8" CONC. WALL (REFER TO STRUCTURAL PLANS) CLEANOUT (TYP.) -6" Ø PERFORATED SCHEDULE 40 PVC PIPE W/ 6" NO. 57 STONE -/ & FILTER FABRIC \_ 4" ø SCHEDULE 40 PVC \_ @ 1% MINIMUM NEENAH STORM SEWER CURB OPENING (TYP.) **PLAN VIEW** 

> **BIORETENTION SWALE** SCALE: N.T.S.

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# **AECOM**

**PROJECT** 

LAKE BEAUTY PARK

30 WEST MILLER STREET ORLANDO, FL 32801

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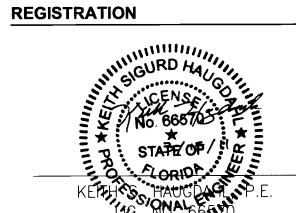
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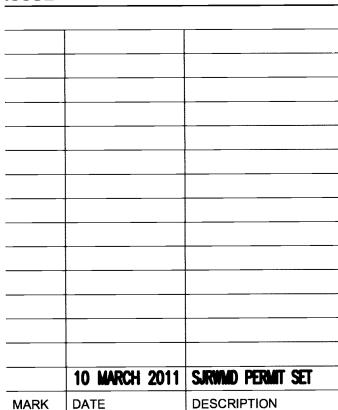
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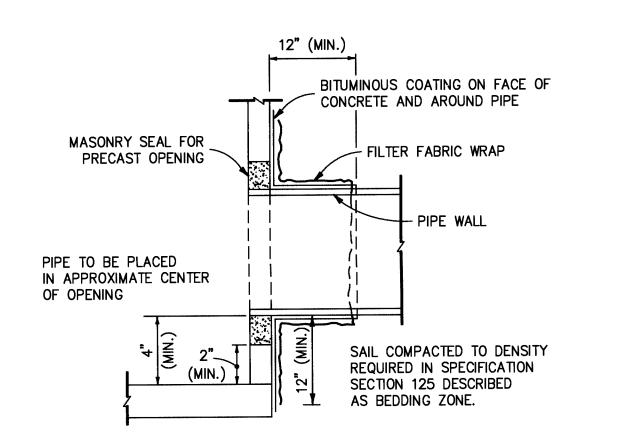
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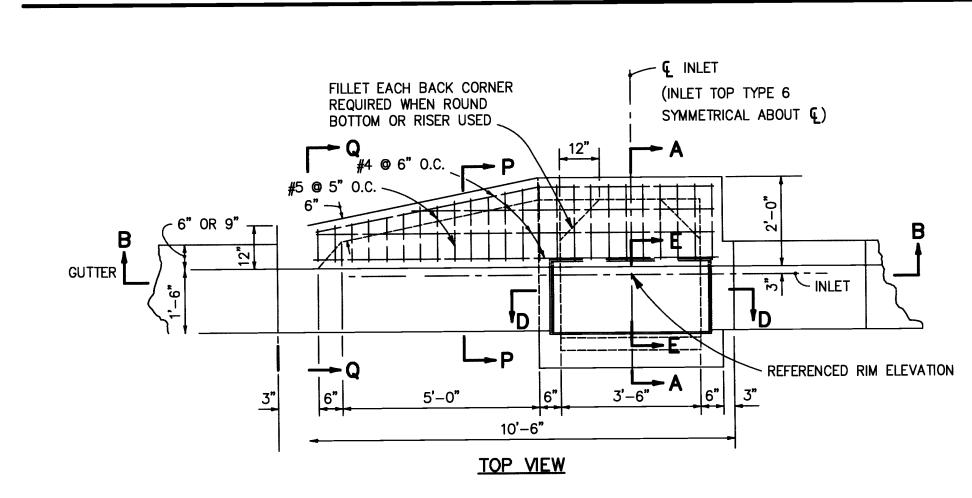
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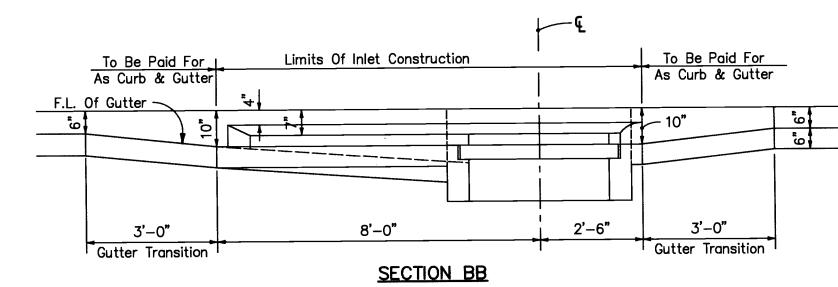
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FILTER FABRIC WRAP ON GROUTED PIPE TO STRUCTURE JOINT PER FDOT INDEX 201





(Curb Inlet Top Type 6 Symmetrical With Left Half)

#### INLET TYPE 5

#### GENERAL NOTES

- 1. THE FINISHED GRADE AND SLOPE OF THE INLET TOPS ARE TO CONFORM WITH THE FINISHED CROSS SLOPE AND GRADE OF THE PROPOSED SIDEWALK AND/OR BORDER. 2. WHEN INLETS ARE TO BE CONSTRUCTED ON A CURVE, REFER TO THE PLANS TO DETERMINE THE RADIUS AND, WHERE NECESSARY, MODIFY THE INLET DETAILS ACCORDINGLY. BEND STEEL
- 3. ALL REINFORCING STEEL SHALL HAVE MINIMUM COVER UNLESS OTHERWISE SHOWN. INLET TOPS SHALL BE EITHER CAST-IN-PLACE OR PRECAST CONCRETE.
- 4. PRECASTING OF THIS INLET TOP WILL BE PERMITTED. PRECAST UNITS SHALL CONFORM TO THE DIMENSIONS SHOWN OR IN ACCORDANCE WITH APPROVED SHOP DRAWINGS. REQUEST FOR SHOP DRAWING APPROVAL SHALL BE DIRECTED TO THE STATE DRAINAGE ENGINEER. 5. CONCRETE MEETING THE REQUIREMENTS OF A.S.T.M. C 478 (4,000 P.S.I.) MAY BE USED IN LIEU OF CLASS I CONCRETE FOR PRECAST UNITS, MANUFACTURED IN PLANTS WHICH ARE

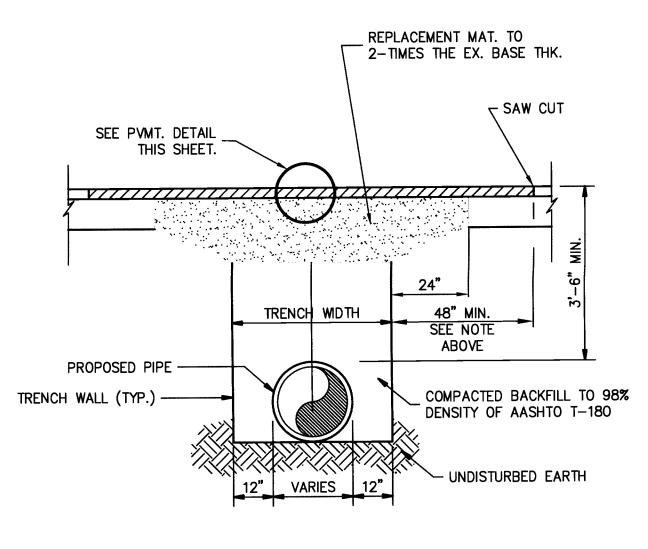
UNDER THE STANDARD OPERATING PROCEDURES FOR THE 14" INSPECTION OF PRECAST

- 6. THE CORNER FILLETS SHOWN FOR RECTANGULAR THROATS ARE NECESSARY ONLY WHEN THROATS ARE TO BE USED IN CONJUNCTION WITH CIRCULAR INLET BOTTOMS OR WHEN USED
- ON SKEW WITH RECTANGULAR INLET BOXES. 7. FOR INLET BOTTOMS SEE INDEX NO. 200. 4' AND LARGER BATTOMS ARE TO BE USED WITH
- 8. THESE INLET TOPS ARE DESIGNED FOR USE WITH STANDARD CURB AND GUTTER TYPE E AND
- TYPE F. LOCATE OUTSIDE OF PEDESTRIAN CROSSWALK WHERE PRACTICAL. 9. SEE INDEX 201 FOR SUPPLEMENTAL DETAILS. 10. ALL STEEL USED FOR FRAME AND COVER SHALL MEET THE REQUIREMENTS OF ASTM

SHEET 2 OF 2, IN LIEU OF TACK WELDING.

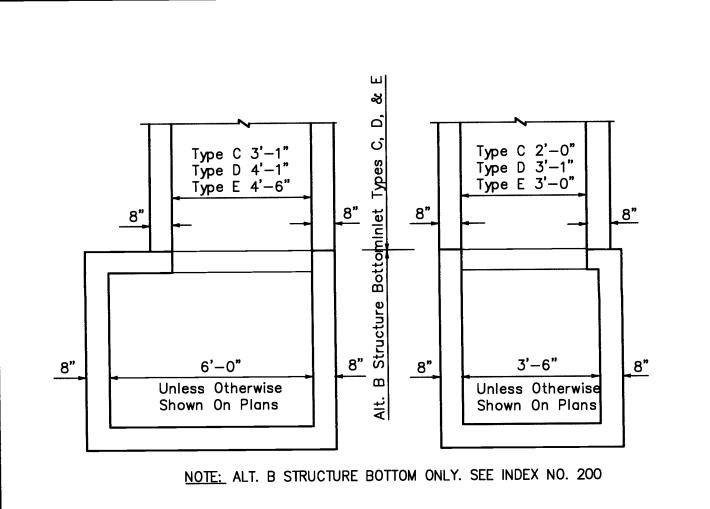
- A36/A36M. 11. ÉITHER CAST IRON COVERS OR STEEL COVERS MAY BE USED. IRON COVERS SHALL BE CLASS
- NO. 30 CASTINGS IN ACCORDANCE WITH ASTM A/48. 12. WHEN ALTERNATE "G" COVER IS SPECIFIED IN PLANS EITHER THE CAST IRON COVER AND GALVANIZED STEEL FRAME OR THE THE GALVANIZED STEEL COVER AND FRAME MUST BE USED. COVERS ARE TO BE GROUTED IN ACCORDANCE WITH THE GROUTING DETAIL SHOWN ON

FDOT TYPE "5" OR "6" INLET

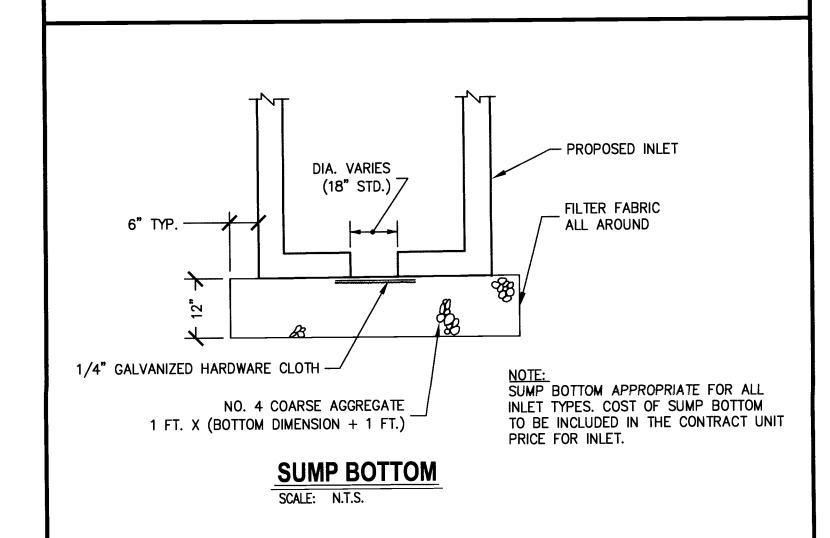


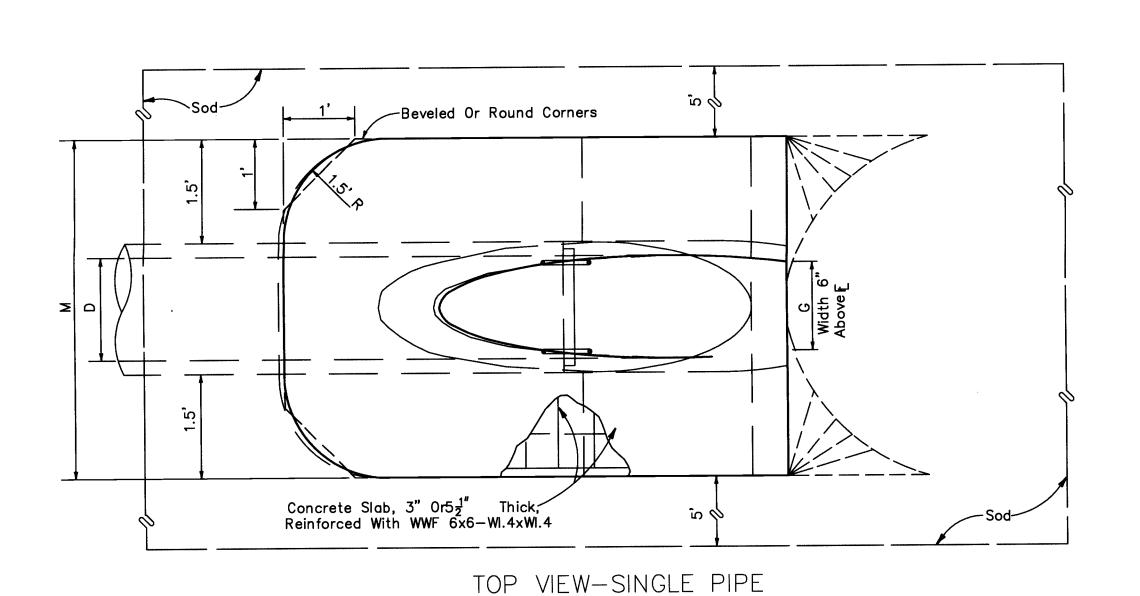
NOTE: MILL AND OVERLAY WEARING COURSE 50' WIDE FROM CURB TO CURB, CENTERED ABOUT TRENCH, ALL CITY ROADWAYS.

TRENCH RESTORATION DETAIL



STRUCTURE BOTTOM FOR INLETS TYPE C, D & E





L		DIN	ENSIO	NS FO	R 84"	RCP
Slope Varies See  General Notes Nos. 1 & 2  Deepen Around Outside  Deepen Around Outside		Single Pipe	D	Α	М	5-1/2' SLAB
3" Or $5\frac{1}{2}$ Nos. 1 & 2  Deepen Around Outside  Edge Of Pipe For $5\frac{1}{2}$ Sleb		2:1 Slope	84"	3.0'	11.5'	
Edge Of Pipe For 52 Slab  Concrete Pipe  Connector  Saddle  *  No Pipe Joint Permitted Unless Approved By The Engineer  E  Paid For As Pipe Culvert  F (Pipe To Be Included Under Unit Price For Mitered End Section)	Side Ditch G  Si	r Pipes 18" 24" And Lai	' And Sm			
SECTION	SEE FDOT INDEX N	lo. 272	2, SHI	EET 1	OF	6

								DIMEN	<u>ISIONS</u>	AN[	) QL	ANTITI	ES	411						/22 \	
							M				i	52 CONCRETE SLAB (CY) ☐			SODDING (SQ. YDS.)						
	D	_ v	Α	В	C	F	F	G	Single	Double	Triple	Quad.	N	Single	Double	Triple	Quad.	Single	Double	Triple	Quad
	U	^			Ŭ	_	•	J	Pipe	Pipe	Pipe	Pipe	.,	Pipe	Pipe	Pipe	Pipe	Pipe	Pipe	Pipe	Pipe
	15"	2'-7"	1.92'	2.18'	4.10'	2.06'	5'	1.22'	4.63'	7.21'	9.79	12.37	1.19'	0.38	0.58	0.77	0.96	21	24	27	30
	18"	2'-10"	1.97'	2.74	4.71	2.56'	6,	1.41'	4.92'	7.75'	10.58	13.42	1.21'	0.44	0.65	0.87	1.09	22	25	28	31
	24"	3'-5"	2.06'	3.85'	5.91'	3.56'	7'	1.73'	5.50'	8.92'	12.33'	15.75	1.25'	0.54	0.83	1.12	1.42	24	28	32	35
	30"	4'-3"	2.15'	4.95'	7.10'	4.56'	8'	2.00'	6.08'	10.33'	14.58'	18.83	1.29'	0.66	1.09	1.50	1.91	26	31	35	40
	36"	5'-1"	2.25'	6.08'	8.33'	5.56'	9,	2.24	6.67'	11.75	16.83	21.92'	1.33'	0.81	1.38	1.95	<u>2.51</u>	28	34	39	45
1	42"	6'-0"	2.34'	7.21'	9.55'	6.56'	10'	2.45'	7.25	13.25'	19.25	25.25	1.38'	0.97	1.70_	<u>2.45</u>	3.19	30	37	43	50
ре	48"	6'-9"	2.43'	8.33'	10.76	7.56'	11'	2.65'	7.83	14.58	21.33	28. <u>08</u> '	1.42'	1.13	2.04	2.93	3.84	32	39	47	<u>54</u>
	54"	7'-8"	2.52'	9.44'	11.96'	8.56'	12'	2.83'	8.42	16.08	23.75	31. <u>42</u>	1.46	1.31	2.44	3.58	4.72	34	42	<u>51</u>	59
	60"	8'-6"	2.62'	10.56	13.18'	9.56'	14'	3.00'	9.00'	17.50 <b>'</b>	26.00'	34.50'	1.50'	1.51	2.89	4.28	5.68_	36	45	<u>55</u>	64
	66"	9'-2"	2.71'	11.68'	14.39	10.56	15'	<u>3.18</u> '	9.58'	18.75	27.92 <b>'</b>	37.08	1.54'	1.68	3.25	4.84	6.43	38	48	58	<u>68</u>
	72"	10'-0"	2.80'	12.80'	_15.60'	11.56	16'	3.30'	10.16	20.16'	<u>30.16'</u>	40.16'	1.58'	1.89	3.74	5.59	7.45	40	51	62	73
	4 = "	2'-7"	2.27'	4.09'	6.36'	4.03'	8'	1.22'	4.63'	7.21'	9.79	12.37	1.19'	0.57	0.87	1.15	1.44	23	26	29	32
	18"	2'-10"	2.36'	5.12'	7.48	5.03'	9'	1.41	4.92'	7.75'	10.58	13.42'	1.21'	0.66	0.99	1.31	1.65	25	28	31_	35
	24"	3'-5"	2.53'	7.18'∆		7.03'∆	11'	1.73'	5.50'	8.92'	12.33'	15.75'	1.25'	0.85	1.30	1.75	2.20	28	32	36	40
	70"	4'-3"	2.70'	9.25'	11.95	9.03'	13'	2.00	6.08	10.33'	14.58	18.83'	1.29'	1.10	1.74	2.39	3.05	31	36	41	46
1	<u></u>	5'-1"	2.87'	11.31\$		11.03\$	15'	2.24'	6.67'	11.75	16.83'	21.92	1.33'	1.32	2.21	3.08	3.96	34	40	46	_ 52
ое	42"	6'-0"	3.05 <b>'</b>	13.37	16.42	13.03	17'	2.45'	7.25'	13.25'	19.25'	25.25	1.38'	1.58	2.76	3.91	5.09	_38	44	51	<u>58</u>
	48"	6'-9"	3.22'	15.43'	18.65'	15.03'	19'	2.65'	7.83'	14.58'	21.33'	28.08	1.42'	1.85	3.30	4.73	6.17	41	48	56	63
	54"	7'-8"	3.39'	17.49'	20.88	17.03'	21'	2.83'	8.42	16.08	23.75	31.42	1.46'	2.14	3.95	5.77	7.58	44	52	61	69
	60"	8'-6"	3.56'	19.55'	23.11'	19.03'	23'	3.00'	9.00'	17.50	26.00	34.50	1.50'	2.45	4.66	6.87	9.07	47	56	66	75
	66"	9'-2"	3.73'	21.62'	25.35'	21.03'	25'	3.18'	9.58'	18.75	27.92	37.08	1.54'_	2.88	5.54	8.18	10.84	49	<u>59</u>	69	80
	72"	10'-0"	3.91'	22.68'	26.59'	23.03	27'	3.30'	10.16'	20.16'	30.16	40.16	1.58'	3.18	6.27	9.36	12.45	52	63	74	85

CROSS DRAIN MITERED END SECTION SCALE: N.T.S. PER FDOT INDEX 272

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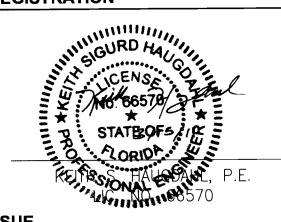
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REGISTRATION



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SHEET TITLE

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**DETAILS** 

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SHEET NUMBER

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