Appendix D

TABLE OF CONTENTS

City of Dade City - Plans

ENGINEERING PLANS FOR:

DADE CITY DOWNTOWN STORMWATER CAPITAL IMPROVEMENT PROJECT

CITY OF DADE CITY

PASCO COUNTY, FLORIDA

AMEC PROJECT NUMBER: 19545

PROJECT LOCATION-

GOVERNING STANDARDS AND SPECIFICATIONS: FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) ROADWAY AND TRAFFIC DESIGN STANDARDS, CURRENT VERSION; FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION

PLANS PREPARED FOR: City of Dade City Department of Public Works 38020 Meridian Avenue Dade City, FL 33526

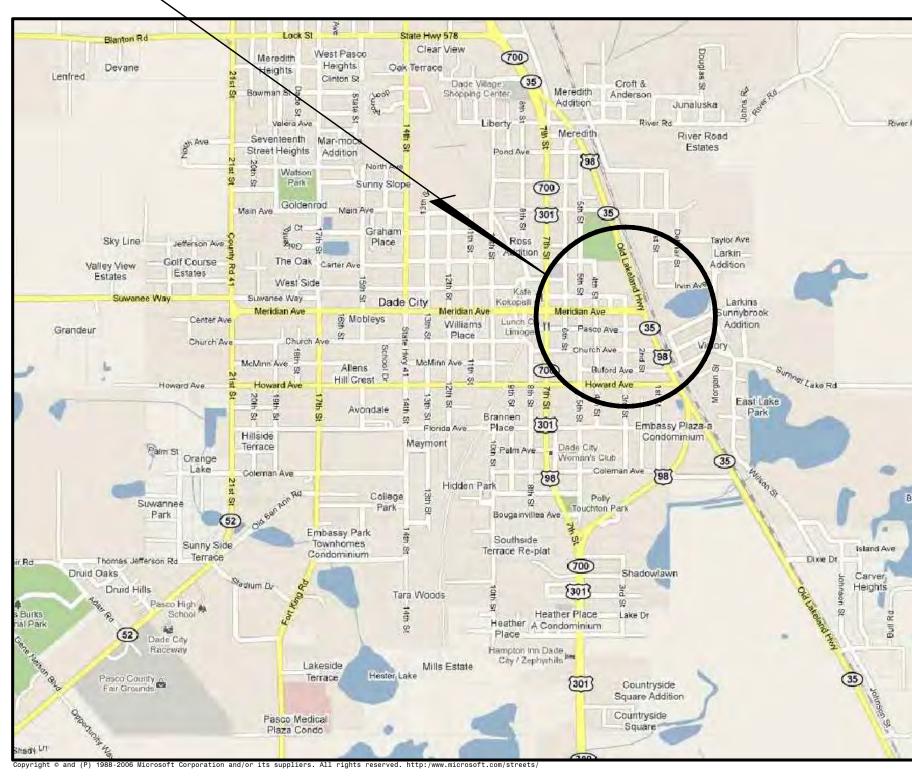
SURVEY PROVIDED BY: SIMMONS & BEALL, Inc

P.O. Box 1297 Dade City, FL 33526-1297 Phone: 352-567-0048 Fax: 352-567-0675

PLANS PREPARED BY:



AMEC Environment & Infrastructure, Inc. 118 W. Reynolds St., Plant City, FL 33563 Phone: 813.719.1223 Fax: 813.754.7587 www.amec.com CA-5392



SITE LOCATION MAP PASCO COUNTY, FLORIDA SECTION 26 & 27, TOWNSHIP 24 SOUTH, RANGE 21 EAST

W<	N
W≺	S

Sheet List Table					
Incl.	Sheet Number	Sheet Title			
	1	COVER SHEET			
	2	GENERAL NOTES			
	3	KEY SHEET			
	4	EXISTING CONDITION AND DEMOLITION PLAN			
	4A	EXISTING CONDITION AND DEMOLITION PLAN			
	5	PLAN AND PROFILE			
	6	PLAN AND PROFILE			
	7	PLAN AND PROFILE			
	8	PLAN AND PROFILE			
	9	PLAN AND PROFILE			
	10	STORM DETAILS			
	11	POND SITE PLAN			
	12	POND CROSS SECTIONS			
	13	MISCELLANEOUS DETAILS			
	14	DRAINAGE CROSSING OF SR 52			
	15	STORMWATER POLLUTION PREVENTION PLAN / CONSTRUCTION SURFACE WATER MANAGEMENT PLAN			

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.



CONTRACTOR IS TO VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION.

CONSTRUCTION PLANS ARE AVAILABLE IN AUTODESK CIVIL 3D FORMAT ONLY. ANY FILE CONVERSIONS WILL BE AT THE CONTRACTOR'S EXPENSE.

ENGINEER CERTIFICATION

I hereby certify that I am a registered professional engineer in the State of Florida practicing with AMEC Environment & Infrastructure, Inc., (AMEC) 118 W. Reynolds St., Plant City, FL 33563, a Corporation authorized to operate as a business providing engineering consulting services (CA-5392) by the state of Florida Department of Professional Regulation, Board of Professional Engineers. I further certify that I, or others under my direct supervision, have prepared the engineering evaluations, findings, opinions, calculations or technical advice hereby represented in these plans.

SIGNATURE:	
NAME:	STEPHEN J. KUHN, P.E.
P.E. NUMBER:	67486
DATE:	

60% PLANS

		REVISIONS	
ev	Date	Description	Sheets

GENERAL CONSTRUCTION NOTES

- LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES ARE SHOWN ACCORDING TO INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES AFFECTING THIS WORK PRIOR
- THE CONTRACTOR SHALL CHECK PLANS AND FIELD CONDITIONS FOR CONFLICTS AND DISCREPANCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE OWNER'S ENGINEER OF ANY CONFLICT BEFORE PERFORMING ANY WORK IN THE AFFECTED AREA.
- 3. 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.
- 4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PERMIT AND INSPECTION REQUIREMENTS OF THE VARIOUS GOVERNMENTAL AGENCIES. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION, AND SCHEDULE INSPECTIONS ACCORDING TO AGENCY INSTRUCTION.
- 5. ALL SPECIFICATIONS AND DOCUMENTS REFERRED TO SHALL BE OF LATEST REVISIONS AND/OR
- . ALL WORK PERFORMED SHALL COMPLY WITH THE REGULATIONS AND ORDINANCES OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK. INCLUDING LANDSCAPING.
- CONTRACTOR SHALL SUBMIT FOR REVIEW TO THE OWNER'S ENGINEER SHOP DRAWINGS ON ALL PRECAST AND MANUFACTURED ITEMS TO BE USED ON THIS SITE. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT CONTRACTOR'S EXPENSE. ENGINEER'S APPROVAL OF A SHOP DRAWING DOES NOT RELIEVE CONTRACTOR'S RESPONSIBILITY FOR PERFORMANCE OF THE ITEM.
- 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.
- BACKFILL MATERIAL SHALL BE SOLIDLY TAMPED AND COMPACTED TO A FIRMNESS EQUAL TO THAT OF THE SOIL ADJACENT TO THE TRENCH AROUND PIPES IN 6" LAYERS UP TO AN UNDISTURBED LEVEL OF AT LEAST 1' ABOVE THE TOP OF THE PIPE. IN AREAS TO BE PAVED, BACKFILL SHALL BE COMPACTED TO 100% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99.
- . CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF AT LEAST 3,000 P.S.I. IN 28 DAYS, UNLESS OTHERWISE NOTED, SPECIFIED OR REQUIRED.
- REINFORCING SHALL BE BILLET STEEL BARS CONFORMING TO ASTM A615 GRADE 40 OR BETTER.
- 2. THE CONTRACTOR/SUBCONTRACTOR SHALL PLACE A 1" DEEP CONTRACTION JOINT EVERY 10' IN . SIDEWALK CONSTRUCTION SHALL BE FLUSH WITH PAVEMENT WHERE THEY ARE ADJACENT OR MEET,
- MATERIALS AND CONSTRUCTION METHODS FOR STREETS AND STORM DRAINAGE CONSTRUCTION SHALL

BE IN ACCORDANCE WITH THE LOCAL REGULATORY AGENCY AND THE FLORIDA DEPARTMENT OF

- TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 1994, OR LATEST REVISION THEREOF AND SUPPLEMENTAL SPECIFICATIONS THERETO. . ALL PIPE NOTED ON THE PLANS AS RCP SHALL BE REINFORCED CONCRETE PIPE, CLASS III, WITH
- RUBBER GASKET JOINTS. REPAIR AND REPLACEMENT OF ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITIONS BEFORE COMMENCING CONSTRUCTION WORK UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. ADDITIONAL COSTS ARE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION WILL BE ALLOWED
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING INFORMATION ON A SET OF THE APPROVED. PLANS CONCURRENTLY WITH CONSTRUCTION PROGRESS. WITHIN TWO WEEKS FOLLOWING FINAL INSPECTION THE CONTRACTOR SHALL SUBMIT ONE SET OF RECORD DRAWINGS TO THE ENGINEER OF

RECORD. THE FINAL RECORD DRAWINGS SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:

- 1. DRAWINGS TO BE LEGIBLY MARKED TO RECORD ACTUAL CONSTRUCTION.
- 2. DRAWINGS SHALL SHOW ACTUAL LOCATION OF ALL UTILITIES, AND RELATED APPURTENANCES BOTH ABOVE AND BELOW GROUND. ALL CHANGES TO PIPING LOCATION INCLUDING HORIZONTAL & VERTICAL LOCATIONS OF UTILITIES & APPURTENANCES SHALL BE CLEARLY SHOWN AND REFERENCED TO PERMANENT SURFACE IMPROVEMENTS. DRAWINGS SHALL ALSO SHOW ACTUAL INSTALLED PIPE MATERIAL, ETC.
- 3. DRAWINGS SHALL CLEARLY SHOW ALL FIELD CHANGES OF DIMENSION AND DETAIL INCLUDING CHANGES MADE BY FIELD ORDER OR BY CHANGE ORDER.
- 4. DRAWINGS SHALL CLEARLY SHOW ALL DETAILS NOT ON ORIGINAL CONTRACT DRAWINGS BUT CONSTRUCTED IN THE FIELD. ALL EQUIPMENT AND PIPING RELOCATION SHALL BE CLEARLY
- 5. LOCATIONS OF ALL MANHOLES, HYDRANTS, VALVES, & VALVE BOXES SHALL BE SHOWN.
- 6. THE CONTRACTOR SHALL PROVIDE CERTIFIED RECORD DRAWINGS. SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR. THE RECORD DRAWINGS SHALL SHOW FINAL GRADES AND LOCATIONS ON ALL UITH ITTES INCLUDING THE SANITARY SEWER, WATER, PRODUCT PIPING. AND STORM WATER COLLECTION SYSTEM (I.E. PIPES. INLETS. AND PONDS). THE CONTRACTOR SHALL PROVIDE TEN COPIES OF THE CERTIFIED RECORD DRAWINGS TO THE ENGINEER.
- CLASS "B" TYPE I BEDDING SHALL BE USED UNLESS INDICATED OTHERWISE ON THE DRAWINGS, OR BY THE ENGINEER.
- SOILS ENGINEER TO SUPPLY THE DESIGN ENGINEER WITH A PHOTOCOPY OF ALL COMPACTION TESTS, ASPHALT RESULTS. AND CONCRETE RESULTS THE SOILS ENGINEER IS TO CERTIFY TO THE DESIGN ENGINEER IN WRITING THAT ALL TESTING REQUIREMENTS REQUIRED BY THE LOCAL REGULATORY AGENCY AND THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) FOR THE IMPROVEMENTS AS REQUIRED BY THE ENGINEERING CONSTRUCTION DRAWINGS FOR THE ON-SITE HAVE BEEN SATISFIED. . CONTRACTOR SHALL REVIEW SOIL REPORTS AND BORINGS PRIOR TO BIDDING THE PROJECT AND
- COMMENCING CONSTRUCTION.
- AT LEAST 3 WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND APPROPRIATE AGENCIES AND SUPPLY THEM WITH ALL REQUIRED SHOP DRAWINGS. THE CONTRACTOR'S NAME, STARTING DATE, PROJECTED SCHEDULE, AND OTHER INFORMATION AS REQUIRED. ANY WORK PERFORMED PRIOR TO NOTIFYING THE ENGINEER OR WITHOUT AGENCY INSPECTOR PRESENT MAY BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL ADHERE TO THE FOLLOWING DETAILS, STANDARDS, REGULATIONS, AND ORDINANCES: COUNTY HEALTH DEPARTMENT, FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, FLORIDA DEPARTMENT OF TRANSPORTATION, SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT, CITY OF
- 24. ALL SITE WORK SHALL CONFORM TO THE LATEST S.W.F.W.M.D., F.D.O.T., CITY AND COUNTY REGULATIONS, SPECIFICATIONS, AND GUIDELINES.
- 25. ALL EXISTING SURVEY MONUMENTS, GPS MONUMENTS OR PUBLIC LAND CORNERS SHALL BE PROTECTED. IF A CORNER OR MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED THE CONTRACTORS CONSTRUCTION MANAGER SHALL NOTIFY THE CITY PUBLIC WORKS DIRECTOR WITHOUT DELAY BY TELEPHONE.

SAFETY NOTES

- DURING THE CONSTRUCTION AND/OR MAINTENANCE OF THIS PROJECT, THE CONTRACTOR SHALL COMPLY WITH REGULATIONS. THE CONTRACTOR OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE TRAVELING PUBLIC AND THE SAFETY OF ITS PERSONNEL LABOR SAFETY REGULATIONS SHALL BE AS SET FORTH BY OSHA IN THE FEDERAL REGISTER OF THE DEPARTMENT OF LABOR.
- THE MINIMUM STANDARDS AS SET FORTH IN THE CURRENT EDITION OF THE STATE OF FLORIDA, MANUAL ON TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS 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 WORKERS FROM HAZARDS WITHIN THE PROJECT LIMITS.
- ALL TRAFFIC CONTROL MARKINGS, FLAGGERS, 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.
- IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH AND ENFORCE ALL APPLICABLE SAFETY REGULATIONS. THE ABOVE INFORMATION HAS BEEN PROVIDED FOR THE CONTRACTOR'S INFORMATION ONLY AND DOES NOT IMPLY THAT THE OWNER OR ENGINEER WILL INSPECT AND/OR ENFORCE SAFETY REGULATIONS.

WATER SYSTEM NOTES

- PER 62-604.400(2)(H), F.A.C EXCEPT AS PROVIDED IN SUBSECTION 62-604.400(3), F.A.C., SEWERS AND FORCE MAINS SHALL BE LAID AT LEAST THREE FEET (OUTSIDE TO OUTSIDE) HORIZONTALLY FROM ANY EXISTING OR PROPOSED RECLAIMED WATER LINE PERMITTED UNDER PART III OF CHAPTER 62-610, F.A.C. SMALLER HORIZONTAL DISTANCES SHALL BE APPROVED IN ACCORDANCE WITH SUBSECTION 62-610.469(7), F.A.C.
- PER 62-604 400(2)(I) E A C EXCEPT AS PROVIDED IN SUBSECTION 62-604 400(3) E A C SEWER PIPES AND FORCE MAINS SHALL CROSS UNDER WATER MAINS. UNLESS THERE IS NO ALTERNATIVE. SEWERS AND FORCE MAINS CROSSING WATER MAINS OR RECLAIMED WATER LINES PERMITTED UNDER PART III OF CHAPTER 62-610. F.A.C.. SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE. THE MINIMUM 4. VERTICAL SEPARATION SHALL BE MAINTAINED WHETHER THE WATER MAIN IS ABOVE OR BELOW THE SEWER. FOR SEWER CROSSINGS, THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS ARE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS. ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER OR FORCE MAIN TO MAINTAIN LINE AND GRADE. FOR SEWERS, PROVIDED THE APPLICANT DEMONSTRATES THERE IS NO REASONABLE ALTERNATIVE, THE DEPARTMENT SHALL APPROVE SMALLER VERTICAL SEPARATION DISTANCES IF ONE OF THE FOLLOWING CONDITIONS IS MET: A. THE SEWER IS ENCASED IN A WATERTIGHT CARRIER PIPE OR CONCRETE.
- B. THE SEWER IS DESIGNED AND CONSTRUCTED EQUAL TO WATER PIPE AND PRESSURE TESTED TO 150 6. PST TO ASSURE WATERTIGHTNESS. C. THE APPLICANT PROVIDES DOCUMENTATION ACCOMPANYING THE PERMIT APPLICATION SHOWING THAT ANOTHER ALTERNATIVE WILL RESULT IN AN EQUIVALENT LEVEL OF RELIABILITY AND PUBLIC HEALTH
- 3. ALL WATER MAINS SHALL HAVE A MINIMUM OF 36 INCHES OF COVER.
- 5. CONFLICTS BETWEEN WATER AND STORM OR SANITARY SEWER TO BE RESOLVED BY ADJUSTING THE
- 6. ALL DUCTILE IRON PIPE SHALL BE CLASS 52 IN ACCORDANCE WITH ANSI A 21.50 (AWWA C150) AND ANSI A 21.51 (AWWA C151) AND PIPE SHALL RECEIVE EXTERIOR BITUMINOUS COATING IN ACCORDANCE WITH ANSI A 21.6. A 21.8 OR A 21.51 AND SHALL BE MORTAR LINED. STANDARD THICKNESS. AND BITUMINOUS SEALED IN ACCORDANCE WITH ANSI A 27.4 (AWWA C 104-71).
- 7. ALL FITTINGS LARGER THAN 2" SHALL BE DUCTILE IRON CLASS 53 IN ACCORDANCE WITH AWWA C-110 WITH A PRESSURE RATING OF 350 PSI. JOINTS SHALL BE MECHANICAL JOINTS IN ACCORDANCE WITH AWWA C-111. FITTINGS SHALL BE CEMENT MORTAR LINED AND COATED IN ACCORDANCE WITH AWWA C-104
- 8. CONTRACTOR TO INSTALL TEMPORARY BLOW-OFFS AT THE END OF WATER SERVICE LATERALS TO ASSURE ADEQUATE FLUSHING AND DISINFECTION.
- 9. RESTRAINED JOINTS SHALL BE PROVIDED AT ALL FITTINGS AND HYDRANTS IN ACCORDANCE WITH
- 10. ALL PVC WATER MAINS 4" THROUGH 12" SHALL BE IN ACCORDANCE WITH AWWA C-900. PIPE SHALL BE CLASS 150 AND MEET THE REQUIREMENTS OF SDR 18 IN ACCORDANCE WITH ASTM D-2241.
- 11. ALL FITTINGS 2" AND SMALLER SHALL BE GALVANIZED IRON PIPE TYPE JOINTS.

MAINTAIN 18" SEPARATION.

- 12. ALL WATER MAINS AND WATER SERVICES TO BE INSTALLED UNDER ROAD UNDER DRAIN SHALL
- 13. MATERIALS AND CONSTRUCTION METHODS FOR WATER DISTRIBUTION SYSTEM SHALL BE IN ACCORDANCE WITH THE LOCAL REGULATORY AGENCY CODES. PLANS. AND SPECIFICATIONS FOR CONSTRUCTION, LATEST REVISION THEREOF AND SUPPLEMENTAL SPECIFICATIONS THERETO. APPROVAL AND CONSTRUCTION OF ALL POTABLE WATER SERVICE MAIN EXTENSIONS AND CONNECTIONS MUST BE COORDINATED THROUGH THE LOCAL REGULATORY AGENCY DEPARTMENT
- 14. ALL PIPE. PIPE FITTINGS. PIPE JOINT PACKING AND JOINTING MATERIALS. VALVES. FIRE HYDRANTS, AND METERS INSTALLED UNDER THIS PROJECT WILL CONFORM TO APPLICABLE AMERICAN WATER WORKS ASSOCIATION (AWWA) STANDARDS. ALL PIPE FITTINGS INSTALLED UNDER THIS PROJECT WILL CONTAIN NO MORE THAN 8.00% LEAD AND ANY SOLDER OR FLUX USED IN THIS PROJECT WILL CONTAIN NO MORE THAN 0.2% LEAD.
- 15. ALL COMPONENTS OF THE WATER SYSTEM, INCLUDING FITTINGS, HYDRANTS, CONNECTIONS, AND VALVES SHALL REMAIN UNCOVERED UNTIL PROPERLY PRESSURE TESTED AND ACCEPTED BY THE OWNER'S ENGINEER. PRESSURE TESTS TO BE IN ACCORDANCE WITH WATER DEPARTMENT AND AWWA SPECIFICATIONS. CONTRACTOR TO NOTIFY OWNER'S ENGINEER AND WATER DEPARTMENT INSPECTORS 48 HOURS IN ADVANCE OF PERFORMING TESTS.
- 16. CONTRACTOR TO PERFORM CHLORINATION AND BACTERIOLOGICAL SAMPLING REQUIRED TO OBTAIN CLEARANCE OF DOMESTIC WATER SYSTEM THROUGH LOCAL REGULATORY AGENCIES. COPIES OF ALL BACTERIOLOGICAL TESTS TO BE SUBMITTED TO OWNER'S ENGINEER.
- 17. ALL FIRE HYDRANTS THAT WILL BE INSTALLED UNDER THIS PROJECT AND THAT HAVE UNPLUGGED, UNDERGROUND DRAINS. WILL BE LOCATED AT LEAST THREE (3) FEET FROM ANY EXISTING OR PROPOSED STORM SEWER. STORMWATER FORCE MAIN. PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610. F.A.C.. OR VACUUM-TYPE SANITARY SEWER: AT LEAST SIX (6) FEET FROM ANY EXISTING OR PROPOSED GRAVITY-TYPE OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III, OF CHAPTER 62-10 F.A.C.; AND AT LEAST TEN (10) FEET FROM ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM".
- 18. NEW OR RELOCATED, UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT, WILL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE (3) FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER STORM SEWER FORCE MAIN. OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610 F A C. A HORIZONTAL DISTANCE OF AT LEAST SIX (6) FEET RETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVIT TYPE SANITARY SEWER (OR A HORIZONTAL DISTANCE OF AT LEAST THREE (3) FEET RETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY-TYPE SANITARY SEWER <u>IF THE BOTTOM OF THE WATER MAIN WILL BE LAID AT LEAST SIX (6) INCHES ABOVE THE TOP OF THE SEWER</u>); A HORIZONTAL DISTANCE OF AT LEAST SIX (6) FEET BETWEEN ABOVE THE TOP OF THE SEWEH); A HUHIZUNIAL DISTANCE OF AN ELECTION OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER. WASTEWATER FORCE MAIN. OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.; AND A HORIZONTAL DISTANCE OF AT LEAST 10 FEET BETWEEN THE OUTSIDE OF WATER MAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM".
- 19. NEW OR RELOCATED, UNDERGROUND WATER MAINS THAT ARE INCLUDED IN THIS PROJECT AND WILL CROSS ANY EXISTING OR PROPOSED GRAVITY-TYPE OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER, WILL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX (6) INCHES ABOVE THE OTHER PIPELINE OR AT LEAST TWELVE (12) INCHES BELOW THE OTHER PIPELINE: AND NEW OR RELOCATED, UNDERGROUND WATER MAINS THAT ARE INCLUDED IN THIS PROJECT AND THAT WILL CROSS ANY EXISTING OR PROPOSED PRESSURE-TYPE SEWER. WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER, WILL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST TWELVE (12) INCHES ABOVE OR BELOW THE OTHER PIPELINE.
- 20. AT THE UTILITY CROSSINGS, DESCRIBED ABOVE, ONE FULL LENGTH OF WATER MAIN WILL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE OR THE PIPES WILL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE (3) FEET 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, F.A.C., AND AT LEAST SIX (6) FEFT FROM ALL JOINTS IN GRAVITY-TYPE OR PRESSURE-TYPE SANITARY SEWERS. WASTEWATER FORCE MAINS. OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C..

STANDARD UTILITY NOTES

- 1. CHAPTER 77-153 OF THE FLORIDA STATUTES REQUIRES THAT AN EXCAVATOR NOTIFY ALL GAS UTILITIES A MINIMUM OF TWO WORKING DAYS PRIOR TO EXCAVATING. MAPS SHOW ONLY THE APPROXIMATE LOCATION OF GAS MAINS AND DO NOT SHOW SERVICE LINES. THE ONLY SAFE AND PROPER WAY TO LOCATE EITHER MAINS OR SERVICE LINES IS BY AN ON-SITE INSPECTION BY THE RESPECTIVE GAS PERSONNEL. THEREFORE, EXCAVATORS ARE INSTRUCTED TO TELEPHONE THE RESPECTIVE GAS COMPANY TWO WORKING DAYS BEFORE ENTERING A CONSTRUCTION AREA.
- 2. ALL UNDERGROUND UTILITIES MUST BE IN PLACE, TESTED AND INSPECTED AS REQUIRED PRIOR TO BASE AND SURFACE CONSTRUCTION.
- 3. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES AND SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE VARIOUS UTILITY COMPANIES IN ORDER TO PERMIT MARKING THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES IN ADVANCE OF CONSTRUCTION. BY CALLING FLORIDA SUNSHINE STATE ONE CALL CENTER OF FLORIDA. INC. AT 1-800-432-4770. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY "SUNSHINE" FORTY-EIGHT (48) HOURS PRIOR TO ANY CLEARING OF CONSTRUCTION TO IDENTIFY ALL UTILITY LOCATIONS.
- 4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES TO DISCONNECT OR REMOVE THEIR FACILITIES PRIOR TO REMOVING OR DEMOLISHING ANY EXISTING STRUCTURES FROM THE SITE. ALL UTILITIES INCLUDING, BUT NOT NECESSARILY LIMITED TO, THE FOLLOWING SHALL BE CONTACTED BY THE CONTRACTOR: CITY OF DADE CITY/WATER, SEWER Lennie Naeyaert 352-523-5054

	,	•	
		Bob Shaw	352-523-5051
2.	TECO PEOPLES GAS- TAMPA	Luis Castellano	813-275-37 <i>43</i>
		Phyllis Rec Bridges	813-275-3742
3.	TAMPA ELECTRIC COMPANY	Ronnie Alexander	813-275-3037
		Sylvia Lecaros	813-275-3059
4.	BRIGHT HOUSE NETWORKS-CITRUS/CABLE, FIBER	Mike Kiker	813-862-0522, ext. 8426
		USIC Dispatch Office	866-861-7678
5.	CENTURY LINK/PHONE, FIBER OPTIC	Jeff Griffin	407-814-5344
	Centra	al Locating - Winter Garden	800-778-9140
		-	

5. THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ACCURACY.IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITIES AND TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATION'S OF THESE UTILITIES WITH THE OWNER OF THE UTILITY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING ANY UNDERGROUND UTILITY, WHETHER SHOWN ON THE PLANS OR LOCATED BY THE UTILITY COMPANY. ALL UTILITIES WHICH INTERFACE WITH THE PROPOSED CONSTRUCTION SHALL BE RELOCATED BY THE RESPECTIVE UTILITY COMPANIES AND THE CONTRACTOR SHALL COOPERATE WITH THE UTILITY COMPANIES DURING RELOCATION OPERATIONS. ANY DELAY OR INCONVENIENCE CAUSED TO THE CONTRACTOR BY THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED.

SANITARY SEWER NOTES

- PER 62-604.400(2)(G), F.A.C EXCEPT AS PROVIDED IN SUBSECTION 62-604.400(3), F.A.C., SEWERS AND FORCE MAIN'S SHALL BE LAID AT LEAST TEN FEET (OUTSIDE TO OUTSIDE) HORIZONTALLY FROM
- 2. ALL SANITARY SEWER MAINS & SERVICE LATERALS SHALL BE CONSTRUCTED OF POLYVINYL
- 3. ALL SANITARY SEWER WORK SHALL CONFORM WITH LOCAL REGULATORY STANDARDS AND SPECIFICATIONS.
- PRIOR TO COMMENCING WORK WHICH REQUIRES CONNECTING NEW WORK TO EXISTING LINES OR APPURTENANCES, THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF EXISTING CONNECTION POINT AND NOTIFY OWNER'S ENGINEER OF ANY CONFLICTS OR DISCREPANCIES.
- PVC PIPE AND FITTINGS SHALL CONFORM WITH A.S.T.M. SPECIFICATIONS DESIGNATION D-3034-77C, MA SDR 35. INSTALLATION OF SDR PIPE SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF A.S.T.M. SPECIFICATION DESIGNATION D2321. ALL SANITARY SEWER PIPELINES SHALL BE SOLID GREEN IN COLOR.
- ALL PVC FORCE MAINS SHALL BE SCHEDULE 40 SOLVENT WELD FOR 1 1/4-1 1/2 INCHES WITH MECHANICAL JOINTS. AND HAVE A GREEN MAGNETIC TAPE A MINIMUM OF 3" WIDE. PLACED 24" BELOW THE PROPOSED GRADE PRINT ON THE MAGNETIC TAPE SHOULD READ "FORCE MAIN".
- 7. ALL DUCTILE IRON PIPE SHALL BE CLASS 52 IN ACCORDANCE WITH ANSI A 21.50 (AWWA C150) AND ANSI 21.51 (AWWA C 151). H.C. PIPE SHALL RECEIVE INTERIOR AND EXTERIOR BITUMINOUS COATING IN ACCORDANCE WITH ANSI A 21.6, A 21.8, OR A 21.51.
- 4. ALL WATER SYSTEM WORK SHALL CONFORM WITH LOCAL REGULATORY STANDARDS AND SPECIFICATIONS 8. ALL SANITARY SEWER GRAVITY MAINS OR SANITARY SEWER FORCE MAINS THAT REQUIRE D.I.P. ARE TO BE POLYLINED OR EPOXY LINED.
 - 9. ALL SANITARY SEWER COVERS SHALL BE TRAFFIC RATED FOR H-20 LOADING.
 - SANITARY SEWERS SHALL HAVE A MINIMUM COVER OF THREE (3) FEET AND SHALL BE INSTALLED ACCOMPANIED BY A METAL TAPE SIMILAR TO "TERRATAPE" COLORED GREEN AND LAID ONE FOOT
 - ALL GRAVITY SEWER PIPING SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE OWNER'S ENGINEER. CONTRACTOR TO NOTIFY THE ENGINEER 48 HOURS IN ADVANCE TO SCHEDULE
 - 12. THE CONTRACTOR SHALL PERFORM AN INFILTRATION/EXFILTRATION TEST ON ALL GRAVITY SEWERS IN ACCORDANCE WITH THE REGULATORY AGENCY HAVING JURISDICTION. SAID TESTS ARE TO BE CERTIFIED BY THE ENGINEER AND SUBMITTED TO THE REGULATORY AGENCY FOR APPROVAL. COORDINATION AND NOTIFICATION OF ALL PARTIES IS THE CONTRACTOR'S RESPONSIBILITY.
 - ALL FORCE MAINS SHALL BE SUBJECT TO A HYDROSTATIC PRESSURE TEST IN ACCORDANCE WITH THE REGULATORY AGENCY HAVING JURISDICTION. SAID TESTS ARE TO BE CERTIFIED BY THE ENGINEER AND SUBMITTED TO THE REGULATORY AGENCY FOR APPROVAL COORDINATION AND NOTIFICATION OF ALL PARTIES IS CONTRACTOR'S RESPONSIBILITY.
 - 14. ALL TRACER WIRES SHALL BE TESTED FOR GOOD CONDUCTIVITY.

FDOT RIGHT-OF-WAY CONSTRUCTION

- 1. ALL WORK PERFORMED WITHIN THE FOOT RIGHT-OF-WAY SHALL BE IN ACCORDANCE WIT FOOT DESIGN STANDARDS. SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION AND THE UTILITY ACCOMMODATION MANUAL, LATEST EDITION.
- 2. FDOT OFFICE MUST BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO ANY LANE CLOSURES OR ANY WORK WITHIN FDOT RIGHT-OF-WAY.
- 3. TEST RESULTS ARE REQUIRED UPON REQUEST
- 4. ENGINEER'S CERTIFICATION TOGETHER WITH AS-BUILT, IF REQUIRED, TO BE SUBMITTED WITH 30 DAYS OF COMPLETION.
- 5. MAINTENANCE OF TRAFFIC (MOT) TO BE SUPERVISED BY A CERTIFIED PERSON.
- ALL UTILITIES ARE TO BE FIELD LOCATED PRIOR TO START OF CONSTRUCTION.
- ALL DISTURBED AREAS WITHIN FDOT RIGHT-OF WAY, SHALL BE RESTORED WITH SOD. ALL TURN LANES SHALL MAINTAIN THE SAME SUPER ELEVATION GRADIENT OF THE
- EXISTING ADJACENT PAVED ROADWAY EXCEPT AS SHOWN ON THE GRADING PLAN FOR THE DUAL DIRECTIONAL OPENING.
- MAINTENANCE OF TRAFFIC (MOT) TO BE PER FDOT INDEX 602 AND 603 OF THE 2006, OR MOST RECENT, FDOT DESIGN STANDARDS OR AS REQUIRED BY THE DEPARTMENT OF TRANSPORTATION.

ANY EXISTING SIGN TO REMAIN THAT IS DISTURBED DURING CONSTRUCTION OR RELOCATED SHALL BE

- RESET TO CURRENT STANDARDS FOR HEIGHT, OFFSET, AND METHOD OF INSTALLATION. CAUTION SHALL BE EXERCISED WHILE RELOCATING EXISTING SIGNS SO AS TO PREVENT DAMAGE TO THE
- SIGNS. IF THE SIGNS ARE DAMAGED BEYOND USE, AS DETERMINED BY FDOT, THEY SHALL BE REPLACED
- CONTRACTOR TO COORDINATE WITH TIM GLOVER PERMIT TECHNICIAN WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION (BROOKSVILLE) AT (352)797-5700 FOR RELOCATION OF UTILITIES.
- 13. THE PERMITEE IS REQUIRED TO HAVE A FDOT QUALIFIED CONSTRUCTION, ENGINEERING, INSPECTION (CEI) INSPECTOR TO OVERSEE THE DAILY CONSTRUCTION ON THE DEPARTMENT'S RIGHT OF WAY
- A CONSTRUCTION BOND WILL BE REQUIRED PRIOR TO ISSUING THE PERMIT.
- 15. LIABILLITY INSURANCE WILL BE REQUIRED PRIOR TO BEGINNING OF CONSTRUCTION.

CLEARING AND EROSION CONTROL NOTES

- 1. PRIOR TO ANY SITE CLEARING, ALL TREES SHOWN TO REMAIN ON THE CONSTRUCTION PLANS SHALL BE PROTECTED IN ACCORDANCE WITH THE LOCAL REGULATORY AGENCY'S TREE ORDINANCE AND DETAILS CONTAINED IN THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THESE TREES IN GOOD CONDITION. NO TREES SHOWN TO REMAIN SHALL BE REMOVED WITHOUT WRITTEN APPROVAL FROM THE OWNER. ONLY "GRADING BY HAND" IS PERMITTED WITHIN THE CANOPY LINE OF TREES THAT ARE TO REMAIN.
- THE CONTRACTOR IS TO PREPARE THE SITE PRIOR TO BEGINNING ACTUAL CONSTRUCTION IN ACCORDANCE WITH THE SOILS TESTING REPORT. COPIES OF THE SOILS REPORT ARE AVAILABLE THROUGH THE OWNER OR THE SOILS TESTING COMPANY. QUESTIONS REGARDING SITE PREPARATION REQUIREMENTS DESCRIBED IN THE SOILS REPORT ARE TO BE DIRECTED TO THE SOILS TESTING
- CONTRACTOR SHALL CLEAR AND GRUB ONLY THOSE PORTIONS OF THE SITE NECESSARY FOR CONSTRUCTION. DISTURBED AREAS WILL BE SEEDED, MULCHED, OR PLANTED WITH OTHER APPROVED LANDSCAPE MATERIAL AS SOON AS GRADING IS COMPLETED AND/OR IS PRACTICABLE. AREAS ANTICIPATED BEING LEFT DISTURBED OR DENUDED FOR LONGER THAN 21 DAYS WILL BE STABILIZED WITH TEMPORARY STABILIZATION WITHIN 14 DAYS OF DISTURBANCE. NO AREAS SHALL BE LEFT OR DISTURBED OR DENUDED FOR LONGER THAN 21 DAYS.
- THE TOP 4" TO 6" OF GROUND REMOVED DURING CLEARING AND GRUBBING SHALL BE STOCKPILED AT A SITE DESIGNATED BY THE OWNER TO BE USED FOR LANDSCAPING PURPOSES, UNLESS OTHERWISE DIRECTED BY THE OWNER. HAY BALES OR SILT FENCE SHALL BE PLACED ALONG THE STOCKPILE PERIMETER FOR EROSION CONTROL.
- 5. ALL CONSTRUCTION DEBRIS AND OTHER WASTE MATERIAL SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH APPLICABLE REGULATIONS
- CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS FOR REMOVING ANY EXISTING STRUCTURES.

REQUIRED BY CONSTRUCTION PROGRESS.

ANY UNDERGROUND UTILITIES AND CLEARING THE SITE. PROTECTION FOR EXISTING STORM SEWER SYSTEMS: DURING CONSTRUCTION, ALL STORM SEWER INLETS IN THE VICINITY OF THE PROJECT SHALL BE PROTECTED BY SEDIMENT TRAPS SUCH AS

SECURED HAY BALES, SOD, STONE, ETC., WHICH SHALL BE MAINTAINED AND MODIFIED AS

7. CONTRACTOR TO OBTAIN SITE CLEARING & TREE REMOVAL PERMIT PRIOR TO INSTALLATION OF

- ALL DISTURBED AREAS WHICH ARE NOT TO BE SODDED ARE TO BE SEEDED, MULCHED AND WATERED TO FDOT STANDARDS AND MAINTAINED UNTIL A SATISFACTORY STAND OF GRASS ACCEPTABLE TO THE REGULATORY AGENCY AND ENGINEER HAVE BEEN OBTAINED. ANY WASHOUTS, REGRADING, RESEEDING, AND GRASSING WORK, AND OTHER EROSION WORK REQUIRED, WILL BE PERFORMED BY THE CONTRACTOR UNTIL THE SYSTEM IS ACCEPTED FOR MAINTENANCE BY THE REGULATORY AGENCY
- CONTRACTOR IS TO PROVIDE EROSION CONTROL/SEDIMENTATION BARRIER (STRAW BALE, TURBIDITY BARRIER OR STAKED SILT FENCE) TO PREVENT SILTATION OF ADJACENT PROPERTY. STREETS. STORM SEWERS, WATERWAYS, AND EXISTING WETLANDS. IN ADDITION, CONTRACTOR SHALL PLACE STRAW, MULCH, OR OTHER SUITABLE MATERIAL ON GROUND IN AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO ENTER AND EXIT THE SITE. IF, IN THE OPINION OF THE ENGINEER AND/OR LOCAL AUTHORITIES, EXCESSIVE QUANTITIES OF EARTH ARE TRANSPORTED OFF-SITE EITHER BY NATURAL DRAINAGE OR BY VEHICULAR TRAFFIC, THE CONTRACTOR IS TO RECOVER SAID EARTH TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES.

CONSTRUCTION PLANS ARE AVAILABLE IN AUTODESK CIVIL 3D FORMAT ONLY. ANY FILE CONVERSIONS WILL BE AT THE CONTRACTOR'S EXPENSE.

CLEARING AND EROSION CONTROL NOTES (CONTINUED) **ABBREVIATIONS**

- 11. IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE THE AFFECTED AREA USING SPRINKLING, IRRIGATION, OR OTHER ACCEPTABLE METHODS.
- 12. THERE SHALL BE NO DISCHARGE (I.E. PUMPING, SHEET FLOW, SWALE, DITCH, FTC.) INTO AN EXISTING LAKE SYSTEM, WETLAND, OR RIVER, WITHOUT THE USE OF SETTLING PONDS. IF THE CONTRACTOR DESIRES TO DISCHARGE INTO THE EXISTING LAKE SYSTEM OR RIVER. A SETTLING POND PLAN MUST BE SUBMITTED AND APPROVED BY THE ENGINEER AND LOCAL REGULATORY AGENCY PRIOR TO CONSTRUCTION. REFER TO THE STORMWATER POLLUTION PLAN FOR POSSIBLE TURBIDITY CONTROL OPTIONS FOR DEWATERING OF THE SITE.
- 13. ONLY THAT PORTION OF THE RIGHT-OF-WAY NECESSARY FOR PAVEMENT AND DRAINAGE FACILITIES SHALL BE CLEARED AND GRUBBED ACCORDING TO THE REQUIREMENTS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION. FLORIDA NATIVE TREES OF 4 INCH CALIPER OR GREATER TRUNK DIAMETER SHALL BE SAVED WHEREVER THEY WILL NOT CONSTITUTE A SAFETY HAZARD, NOR BE DEFACED BY UTILITY CONSTRUCTION, OR DAMAGED BY THE REQUIRED STREET CONSTRUCTION. THE DIRECTOR OF PUBLIC WORKS SHALL REQUIRE THAT THE TREES TO BE SAVED. DUE TO THESE REQUIREMENTS. BE PROMINENTLY MARKED AND BARRICADED BEFORE THE BEGINNING OF CONSTRUCTION.
- 14. ALL FINISHED EARTH SURFACES WITHIN PUBLIC RIGHT-OF-WAY SHALL BE GRASSED ACCORDING TO THE FOLLOWING CRITERIA TO PREVENT EROSION AND TO IMPROVE THE APPEARANCE OF THE
- A. ALL FINISHED SURFACES WITHIN THE RIGHT-OF-WAY SHALL BE SODDED.
- B. ALL SWALES AND RETENTION / DETENTION AREAS SHALL BE SODDED.
- C. ALL SWALE DITCHES. WITH AN AVERAGE VELOCITY EXCEPDING 2 FEET PER SECOND. SHALL BE SODDED. IN NO CASE SHALL SWALE VELOCITIES EXCEED 6 FEET PER SECOND FOR DITCH SLOPES LESS THAN 5% AND 4 FEET PER SECOND FOR DITCH SLOPES GREATER THAN 5%.

PAVING AND GRADING NOTES

- 1. ALL DELETERIOUS MATERIAL (I.E., MUCK, PEAT, BURIED DEBRIS) IS TO BE EXCAVATED IN ACCORDANCE WITH THESES PLANS OR AS DIRECTED BY 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 BACKETLLED WITH APPROVED. MATERIALS AND COMPACTED AS SHOWN ON THESE PLANS.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND SHALL PROVIDE BRACING SHEETING OR SHORING AS NECESSARY TRENCHES SHALL BE KEPT DRY WHILE PIPE AND APPURTENANCES ARE BEING PLACED. DEWATERING SHALL BE USED AS REQUIRED, AND PERMITTED THROUGH LOCAL GOVERNMENTAL AGENCIES AND WATER MANAGEMENT DISTRICT PER CURRENT REGULATIONS.
- 3. PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT OR GROUND SURFACE GRADE UNLESS
- 4. REFER TO THE LATEST EDITION OF FDOT "ROADWAY AND TRAFFIC DESIGN STANDARDS" FOR DETAILS AND SPECIFICATIONS OF ALL FDOT TYPE CURBING AND GUTTERS CALLED FOR ON THESE PLANS.
- 5. IT MAY BE NECESSARY TO FIELD ADJUST PAVEMENT ELEVATIONS TO PRESERVE THE ROOT SYSTEMS OF TREES SHOWN TO BE SAVED. CONTRACTOR TO COORDINATE WITH OWNER'S ENGINEER PRIOR TO
- 6. PRIOR TO CONSTRUCTION OF CONCRETE PAVEMENT, THE CONTRACTOR IS TO SUBMIT A PROPOSED JOINTING PATTERN TO THE OWNER'S ENGINEER FOR REVIEW.
- 7. CONTRACTOR TO PROVIDE A 1/2" BITUMINOUS EXPANSION JOINT MATERIAL WITH SEALER AT ABUTMENT OF CONCRETE AND ANY STRUCTURE.
- 8. ALL PAVEMENT MARKINGS SHALL BE MADE WITH PERMANENT THERMOPLASTIC AND SHALL CONFORM TO FOOT STANDARD INDEX NO. 17346. SHEETS 1-7. PARKING STALL STRIPING TO BE 4" WIDE PAINTED STRIPES. ON-SITE STRIPE COLOR SHALL BE WHITE EXCEPT AS SHOWN ON THE ENGINEERING PLANS. PARKING STALL STRIPING SHALL BE COMPATIBLE WITH THE PAVEMENT TYPE (I.E. CONCRETE. ASPHALT) AND SPECIFICATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL
- 9. CONTRACTOR SHALL TRIM, TACK, AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT.
- 10. CONTRACTOR SHALL INSTALL STORM PIPING AND CULVERTS IN ACCORDANCE WITH FDOT INDEX 205 AND PLACE EXTRA BASE MATERIAL WHEN THE DISTANCE BETWEEN THE PAVEMENT ELEVATION AND THE TOP OF THE PIPE OR BELL IS LESS THAN TWELVE (12) INCHES.
- 11. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING APPLICABLE TESTING WITH THE SOILS ENGINEER. TESTS WILL BE REQUIRED PURSUANT TO THE TESTING SCHEDULE REQUIRED BY APPLICABLE REGULATORY AGENCIES AND AS MAY BE FOUND IN THE ENGINEERING CONSTRUCTION DRAWINGS. CONTRACTOR TO VERIFY ALL TESTING WITH THE OWNER PRIOR TO COMMENCING CONSTRUCTION. UPON COMPLETION OF THE WORK, THE SOILS ENGINEER MUST SUBMIT TO THE OWNER'S ENGINEER

THE FOLLOWING LIST CONTAINS ABBREVIATIONS USED IN THIS SET OF DRAWINGS. NOTE THAT NOT ALL ABBREVIATIONS SHOWN HERE MIGHT APPEAR WITHIN THIS SET OF PLANS NORTH AC = ACRFAPPD = APPROVEDNGS = NATIONAL GEODETIC APPROX = APPROXIMATESURVEY ASPH = ASPHALTNO(#) = NUMBERAMERICAN WATER NOM = NOMINAL

WORKS ASSOCIATION NTS = NOT TO SCALE = BASE LINE OC = ON CENTER = OUTSIDE DIAMETER BLDG = BUILDINGOPNG = OPENING BLVD = BOULEVARDOPP = OPPOSITE BM = BENCHMARK = BACK OF CURB ORIG = ORIGINAL BOTTOM OVHD = OVERHEAD = CUBIC FFFT = PLATF PAR = PARALLEL = CENTER LINE = CORRUGATED METAL PIPE PC = PRECAST CONCRETE = CLEAN OUT. COMPANY POINT OF CURVATURE = PERFORATED = CITY OF LAKELAND PERM = PERMANENT C.O.L. = CITY OF LAKELAND PERP = PERPENDICULAR COMMUNICATION CONC. = CONCRETE POINT OF INTERSEC COND = CONDUIT (UNDERGROUND), = PROPERTY LINE. PLATE CONDOMINIUM = PREMOLDED MASTIC POL = POINT ON LINE CONST. = CONSTRUCT, CONSTRUCTION PREFAB = PREFABRICATED CONT = CONTINUE. CONTINUOUS PRC = POINT OF REVERSE CONTR = CONTRACTOR, CONTRACT CORR = CORRUGATED CURVATURE PROJ = PROJECT CU = CUBTCCU.FT. = CUBIC FOOTPROP = PROPOSED

PRV = PRESSURE RELIEF *VAL VE* PSF = POUNDS PER SQUARE DBI = DITCH BOTTOM INLET PSI = POUNDS PER SQUARE = POINT or POINT OF = POLYVINYL CHLORIDE

DEMO = DEMOLITION = DETAIL = DUCTILE IRON = DIAMETER = DIMENSION PVMT = PAVEMENT = DUCTILE IRON PIPE DOM = DOMESTIC WATER QUAD = QUADRANT QUAL = QUALITY= DOWNSPOUT DWG = DRAWING= RISER = FASTR/W = RIGHT OF WAYEA = EACHRAD = RADTUS= ELEVATION RCP ELEC = ELECTRIC. ELECTRICAL

ENCL = ENCLOSURE **EQUAL** EQUIP = EQUIPMENT ERCP = ELLIPTICAL REINFORCED CONCRETE PIPE FST = ESTIMATE EXIST = EXISTINGEXP = EXPANSION CONT EXP JT = EXPANSION JOINTEXT = EXTERIOR

= FIRE DEPARTMENT CONNECTION = FLORIDA DEPARTMENT OF TRANSPORTATION = FINISHED FLOOR = FIRE HYDRANT

FIG = FIGURE FIN = FINISH = FLOOR FIG = FIANGF= FORCE MAIN

FRP = FIBERGLASS REINFORCED PLASTIC FT (') = FEET, FOOT= FOOTING FTG

BOT =

CU.IN. = CUBIC INCH

= DOUBLE

DIM

DIP

= CUBIC YARD

= GAUGE GALV = GALVANIZED= GRADE

GROUND = GALVANIZED STEEL, GROUND SHOT

= HOSE BIB = HANDTCAP PROPOSED INFORMATION WILL BE DEPICTED HFX = HFXAGON

BUILDING CONCRETE RESURFACE PAVEMEN

HANDICAP PARKING

HANDICAPPED SIGN

PROPOSED SITE BOUNDARY

EASEMENT

WATER METER

WATER VALVE

FIRE HYDRANT

SANITARY SEWER (GRAVITY)

TRANSFORMER

POWER POLE

LIGHT POLE

BACK FLOW PREVENTOR

SANITARY SEWER MANHOLE

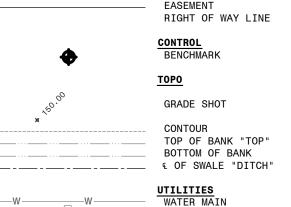
SANITARY SEWER CLEAN OUT

PAVEMENT/CONCRETE TO BE

REMOVED WITH SAW CUT EDGE

OVERHEAD ELECTRIC

PROPOSED PAVEMENT STRIPING HANDICAP PARKING ----- - G OF ROAD ----- X ----- FENCE LINE STRIPING PROPERTY LINE ____ - - - _ _ - - _ _



BUILDING

=========================== CURB

_____ X ____

_ _ _ _ _ _ _ _ _ _ _ EDGE OF CONCRETE

---- EDGE OF PAVEMENT

FENCE LINE

WATER METER WATER VALVE FIRE HYDRANT _ss___ss> SANITARY SEWER (GRAVITY) SANITARY SEWER MANHOLE

SANITARY SEWER CLEAN OUT STORMWATER PIPE MITERED END SECTION —gas——gas— OVERHEAD ELECTRIC UNDERGROUND ELECTRIC

TRANSFORMER POWER POLE LIGHT POLE TELEPHONE TELEPHONE RISER

—cbl——cbl—— CABLE

⊙ CO

-ss ---

——ОНE-

----W --------- FIREMAIN

----IRR-----IRR---- IRRIGATION LINE

LANDSCAPING

= REINFORCED CONCRETE = ROAD. ROOF DRAIN RED = REDUCER REINF = REINFORCING REQ'D = REQUIREDREV = REVISION. REVISE = RIGHT HAND = ROOM RND = ROUNDRO = ROUGH OPENING ROW = RIGHT OF WAYRR = RAILROAD= RTGHT = RELIEF VALVE = SOUTH SAN = SANITARY SCH = SCHEDULE SECT = SECTION = SEWER SF or SQ FT = SQUARE FEET SH = SHEET SIM = SIMILAR SLV = SLEEVESPEC = SPECIFICATION

SPR = SPRINKLER SQ = SQUARESST = STAINLESS STEEL ST = STRFFTSTA = STATIONSTD = STANDARD STL = STEEL

STRUC = STRUCTURAL = SYMBOL SYS = SYSTEM = TREAD = TANGENT = HORIZONTAL TECHNICAL = TELEPHONE TEMP

= HIGH POINT, HIGH TEMPERATURE PRESSURE CONCRETE PIPE **TEMPORARY** H.PT. = HIGH POINT TERM TERMINAL. = HIGH WATER TERMINATE TOB TOP OF BERM. = HYDRANT, HYDRAULIC TOP OF BANK TOC TOP OF CONC, ID = INSIDE DIAMETER TOP OF CURB = INVERT ELEVATION TOP OF PAVEMENT IN (") = INCHTOP OF STEEL TOS INC = INCORPORATED TOE OF SLOPE TOW = TOP OF WALL

IND = INDUSTRIAL INFO = INFORMATION = TELEVISION INSUL = INSULATION = TYPICAL INVERT = TOP AND BOTTOM T&B JCT = JUNCTION = UNDERGROUND = JOINT, CONSTRUCTION JOINT UG = UNLESS OTHERWISE UON NOTED = LABORATORY VPI = VERTICAL POINT LAT

= LINEAR FEET = LEFT HAND L.PT. = LOW POINT W/O = WITHOUTLP = LOW POINT= LEFT WHSE = WAREHOUSE LVL = LEVELMAT = MATERIAL

MAX = MAXIMUMMECH = MECHANICAL MES = MITERED END SECTION MANUFACTURED MFG MANUFACTURING MANUFACTURER MFGR

MANHOLE MIN. = MINIMUM MISCELLANEOUS MECHANICAL JOINT MSHA =

ADMINISTRATION

MINE SAFETY AND HEALTH

0

> 0 PR VEME

MPRO OWN 0 **U** 0

CHECKED BY: TJK PROJECT NO.: 19545

DATE:

REFER TO INDEX FOR TOTAL SHEETS INCLUDE SHEET -

0 SIS **NMO** CA

OF INTERSECTION

= WATER/WEATHER PROOF

= WELDED WIRE FABRIC

= WEST, WIDTH, WATT

= WITH

= WATER LINE

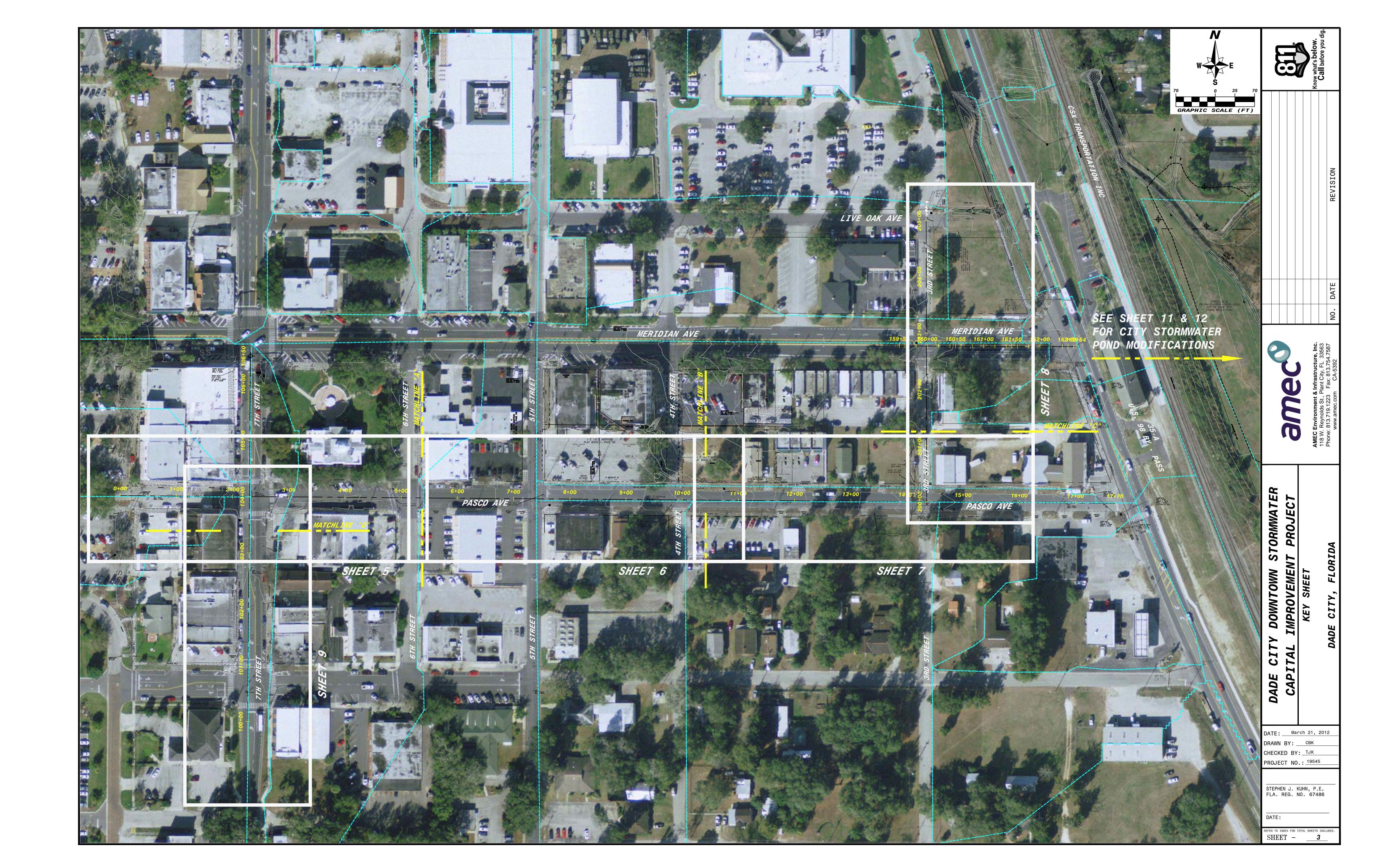
= WEIGHT

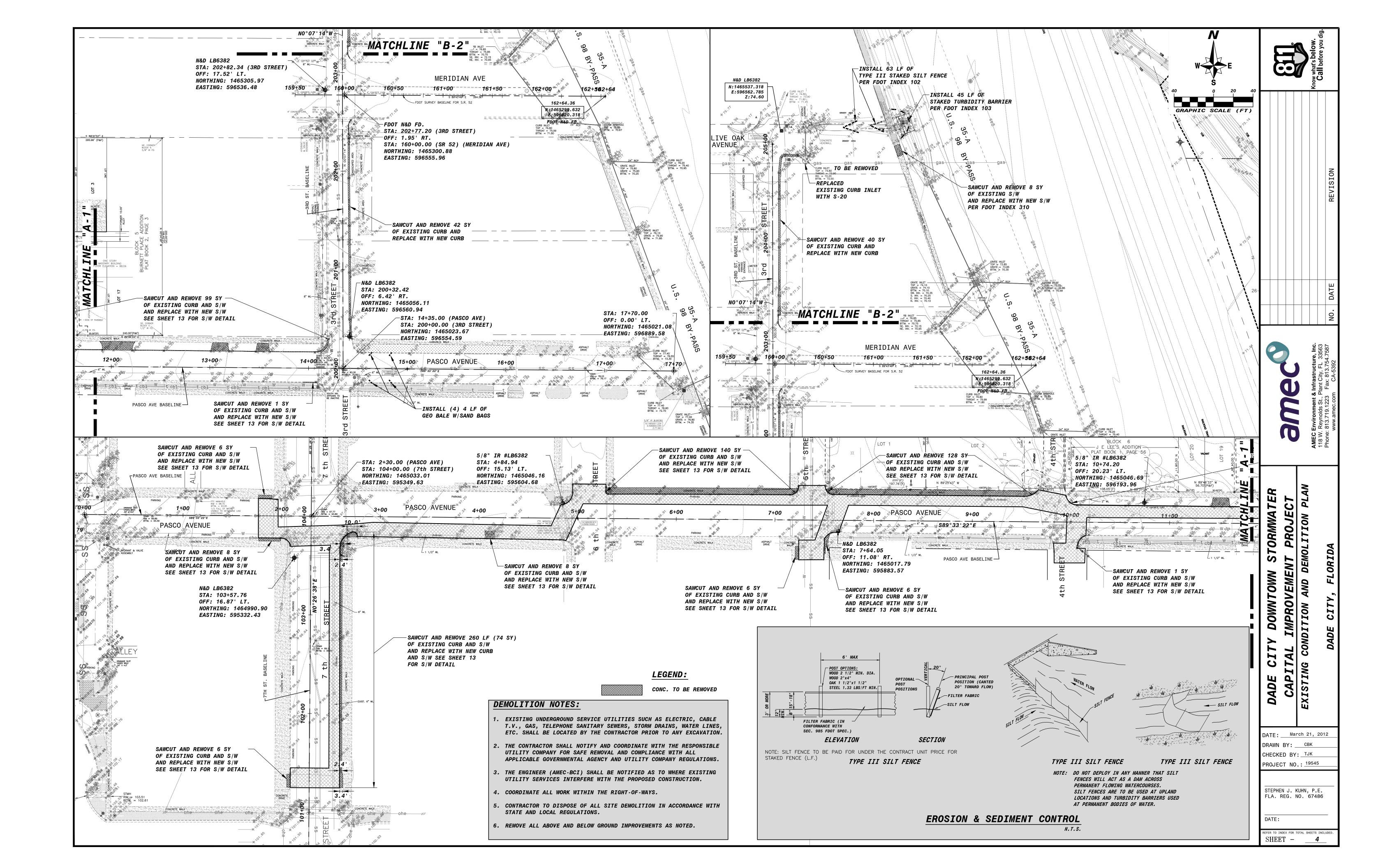
X-SEC = CROSS SECTION

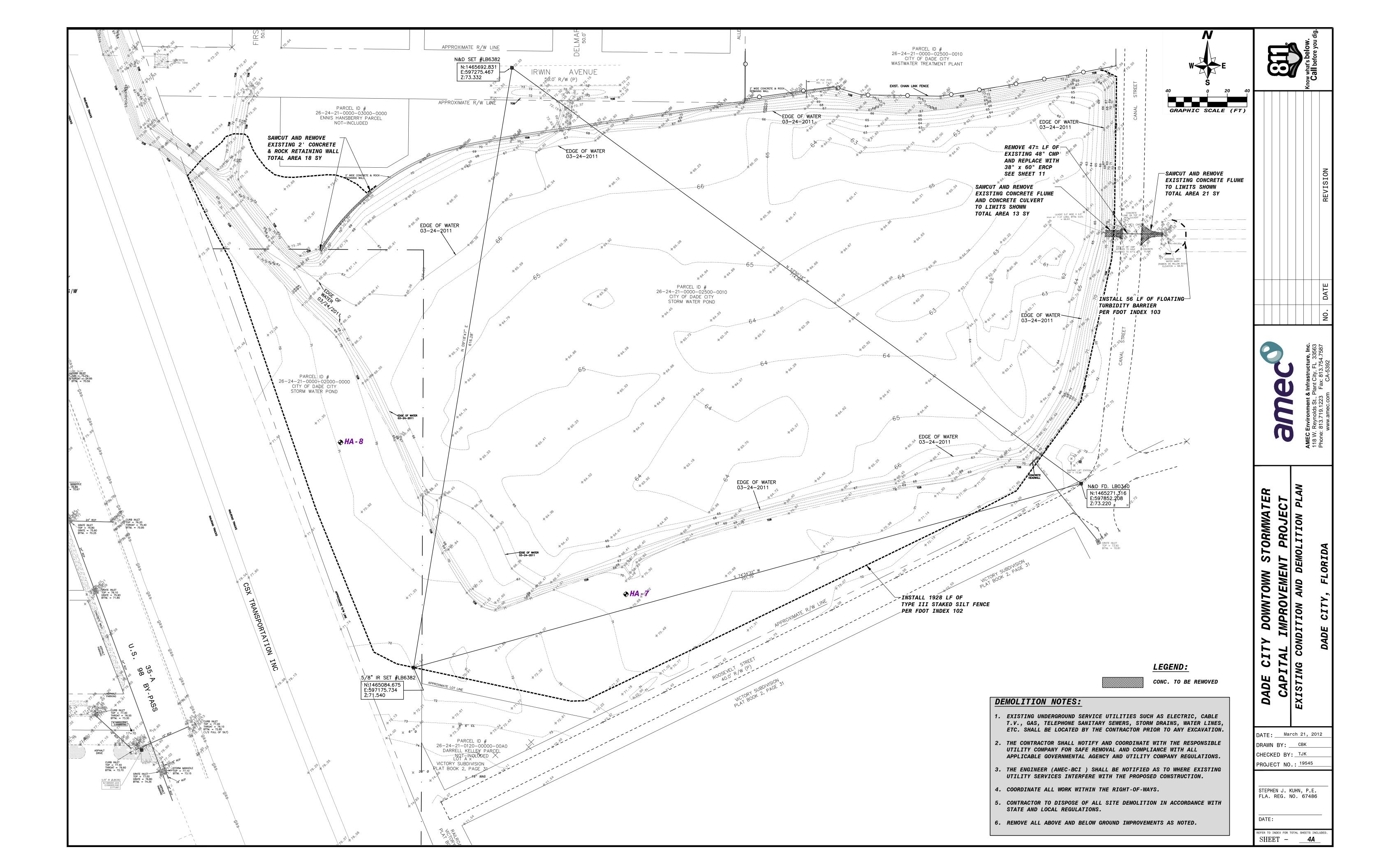
YD = YARD

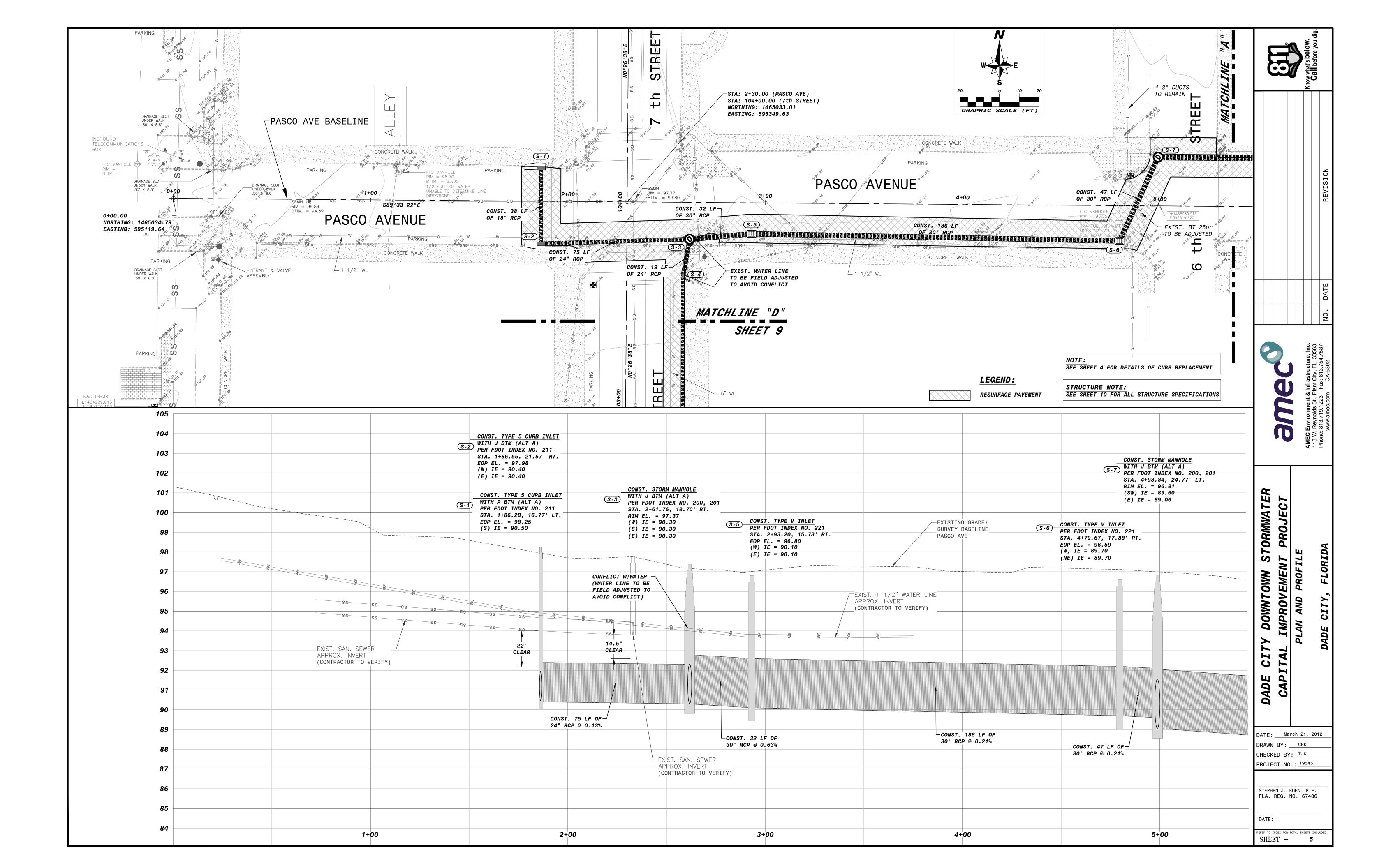
DATE: ___ March 21, 2012 DRAWN BY: CBK

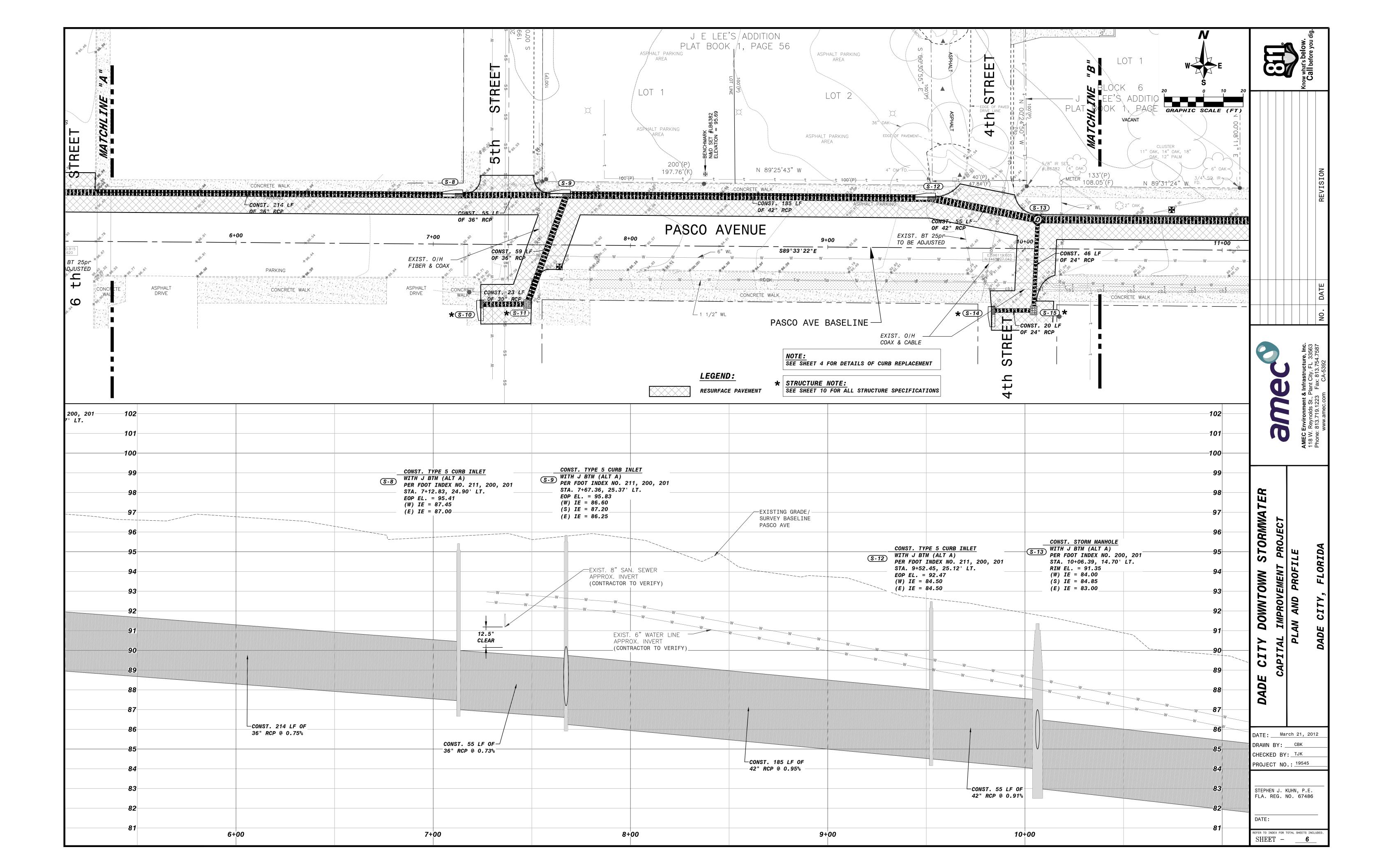
STEPHEN J. KUHN, P.E. FLA. REG. NO. 67486

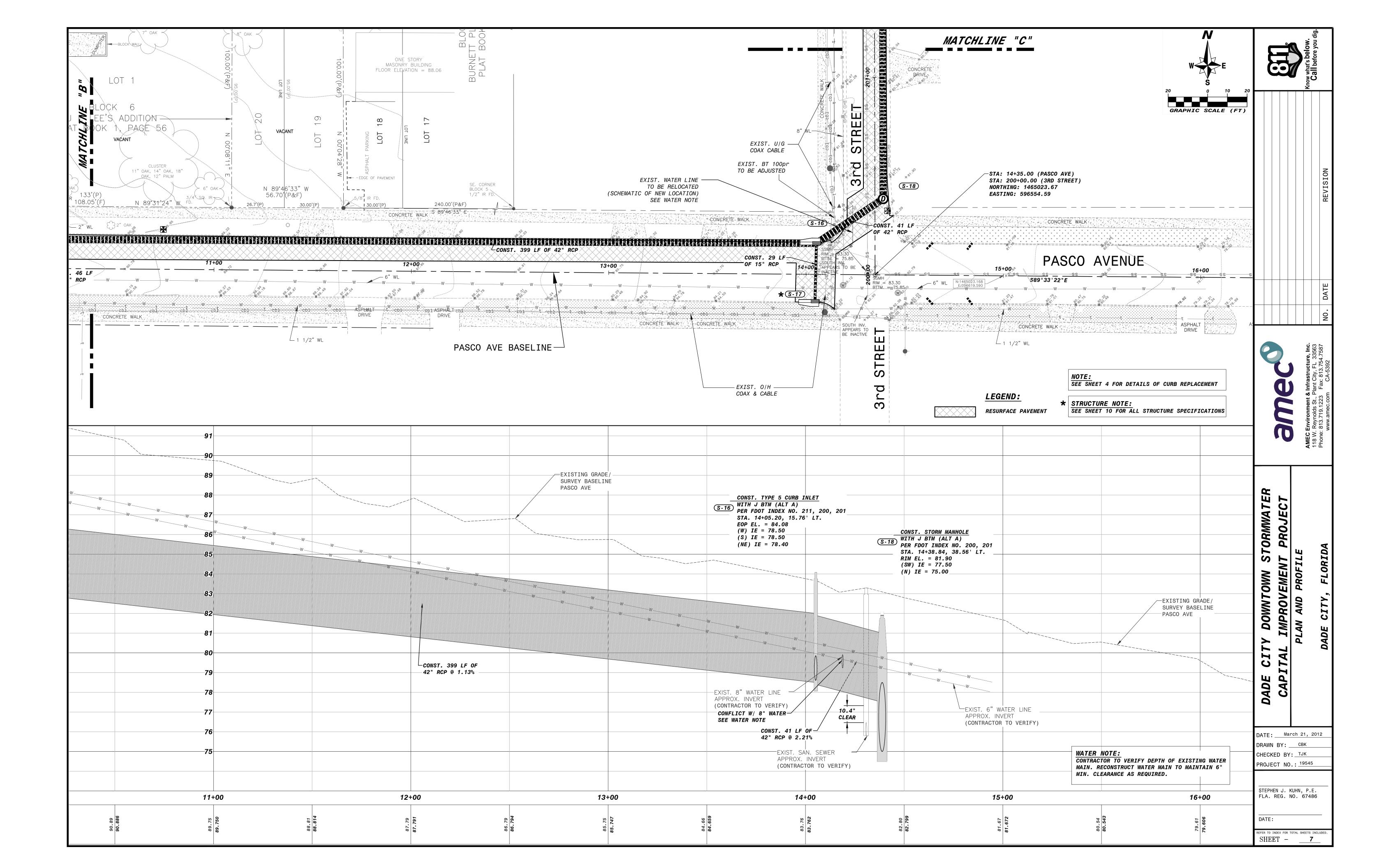


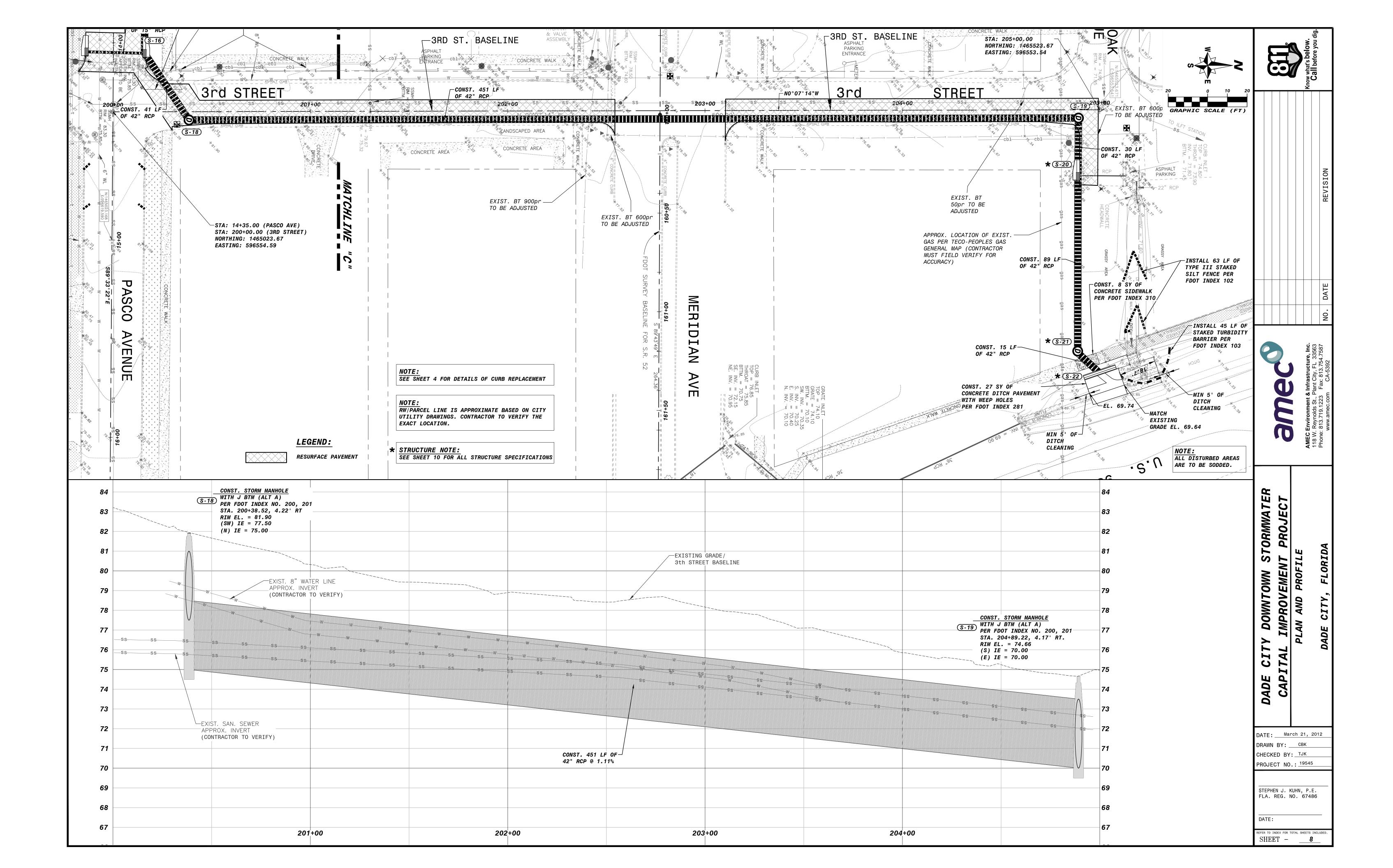


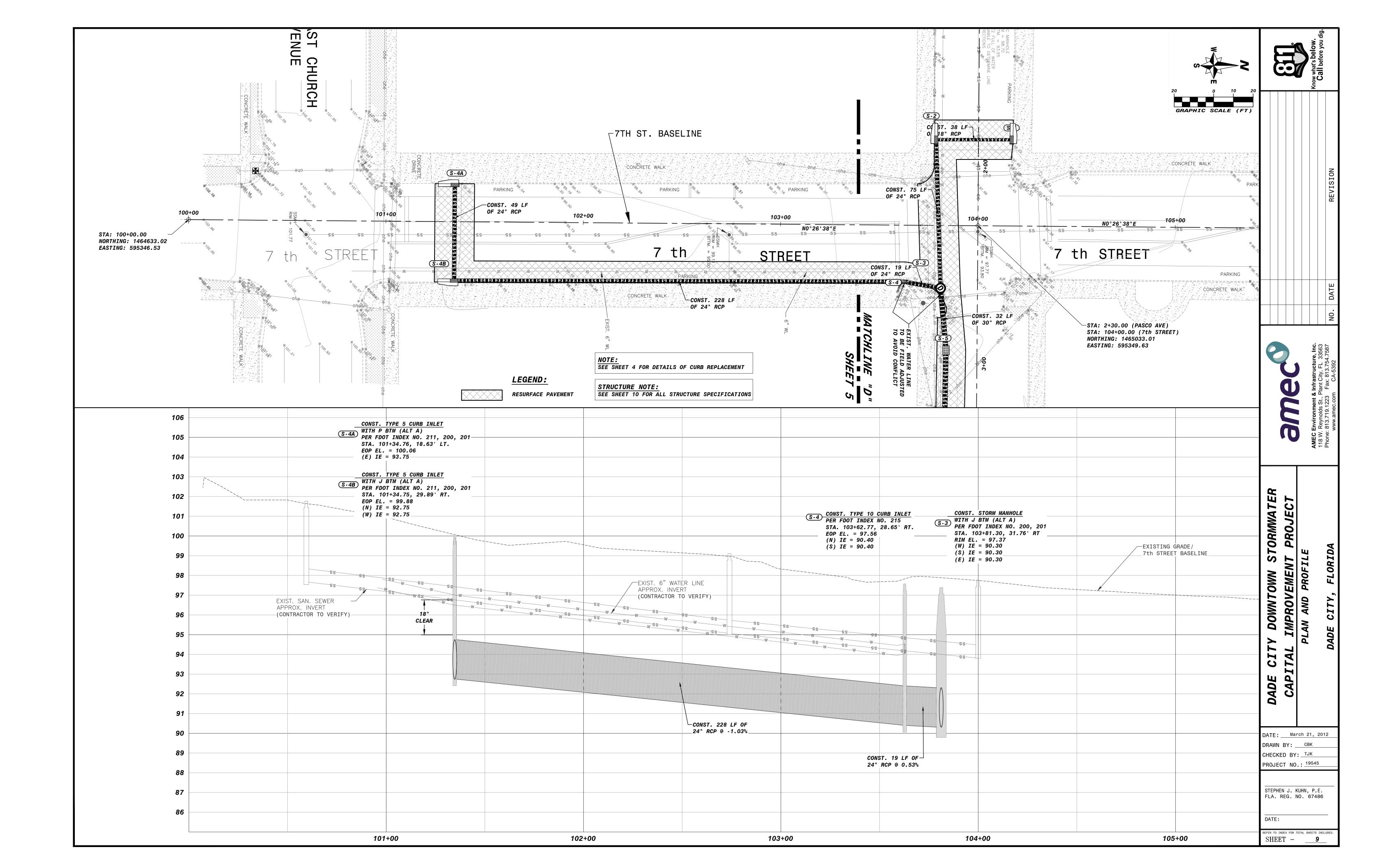












	STORM STRUCTURE TABLE						
NAME	DESCRIPTION	FDOT INDEX NO.	STATION OFFSET	NORTHING EASTING	TOP (RIM, GRATE, ETC.)	INVERT(S)	
S-1	TYPE 5 CURB INLET P BTM (ALT A)	211, 200 201	STA. 1+86.28 OFFSET 16.77 LT.	N = 1465050.11 E = 595306.04	98.25	(S) 90.50	
S-2	TYPE 5 CURB INLET J BTM (ALT A)	211, 200 201	STA. 1+86.55 OFFSET 21.57 RT.	N = 1465011.77 E = 595306.02	97.98	(N) 90.40 (E) 90.40	
S-3	STORM MANHOLE J BTM (ALT A)	200, 201	STA. 2+61.76 OFFSET 18.70 RT.	N = 1465014.07 E = 595381.24	97.37	(W) 90.30 (S) 90.30 (E) 90.30	
S-4	TYPE 10 CURB INLET	215	STA. 103+62.77 OFFSET 28.65 RT.	N = 1464995.56 E = 595377.99	97.56	(N) 90.40 (S) 90.40	
S-4A	TYPE 5 CURB INLET P BTM (ALT A)	211, 200 201	STA. 101+34.76 OFFSET 18.63 LT.	N = 1464767.92 E = 595328.94	100.06	(E) 93.75	
S-4B	TYPE 5 CURB INLET J BTM (ALT A)	211, 200 201	STA. 101+34.75 OFFSET 29.89 RT.	N = 1464767.54 E = 595377.46	99.88	(N) 92.75 (W) 92.75	
S-5	TYPE V INLET	221	STA. 2+93.20 OFFSET 15.73 RT.	N = 1465016.79 E = 595412.71	96.80	(W) 90.10 (E) 90.10	
S-6	TYPE V INLET	221	STA. 4+79.67 OFFSET 17.88 RT.	N = 1465013.19 E = 595599.15	96.59	(W) 89.70 (NE) 89.70	
S-7	STORM MANHOLE J BTM (ALT A)	200, 201	STA. 4+98.84 OFFSET 24.77 LT.	N = 1465055.69 E = 595618.65	96.81	(SW) 89.60 (E) 89.06	
S-8	TYPE 5 CURB INLET J BTM (ALT A)	211, 200 201	STA. 7+12.83 OFFSET 24.90 LT.	N = 1465054.16 E = 595832.64	95.41	(W) 87.45 (E) 87.00	
S-9	TYPE 5 CURB INLET J BTM (ALT A)	211, 200 201	STA. 7+67.36 OFFSET 25.37 LT.	N = 1465054.21 E = 595887.17	95.83	(W) 86.60 (S) 87.20 (E) 86.25	
S-10	TYPE 5 CURB INLET P BTM (ALT A)	211, 200 201	STA. 7+24.83 OFFSET 30.36 RT.	N = 1464998.82 E = 595844.21	92.64	(E) 88.14	
S-11	TYPE V INLET	221	STA. 7+47.87 OFFSET 30.09 RT.	N = 1464998.91 E = 595867.25	92.31	(W) 87.81 (N) 87.81	
S-12	TYPE 5 CURB INLET J BTM (ALT A)	211, 200 201	STA. 9+52.45 OFFSET 25.12 LT.	N = 1465052.53 E = 596072.25	92.47	(W) 84.50 (E) 84.50	
S-13	STORM MANHOLE J BTM (ALT A)	200, 201	STA. 10+06.39 OFFSET 14.70 LT.	N = 1465041.69 E = 596126.11	91.35	(W) 84.00 (S) 84.85 (E) 83.00	

	STORM STRUCTURE TABLE						
NAME	DESCRIPTION	FDOT INDEX NO.	STATION OFFSET	NORTHING EASTING	TOP (RIM, GRATE, ETC.)	INVERT(S	
S-14	TYPE 5 CURB INLET P BTM (ALT A)	211, 200 201	STA. 9+84.15 OFFSET 31.52 RT.	N = 1464995.64 E = 596103.51	89.80	(E) 85.88	
S-15	TYPE V INLET	221	STA. 10+04.61 OFFSET 31.34 RT.	N = 1464995.67 E = 596123.97	89.42	(W) 85.50 (N) 85.50	
S-16	TYPE 5 CURB INLET J BTM (ALT A)	211, 200 201	STA. 14+05.20 OFFSET 15.76 LT.	N = 1465039.66 E = 596524.92	84.08	(W) 78.50 (S) 78.50 (NE) 78.4	
S-17	TYPE 5 CURB INLET	211	STA. 14+04.67 OFFSET 13.64 RT.	N = 1465010.27 E = 596524.15	83.47	(N) 78.97	
S-18	STORM MANHOLE J BTM (ALT A)	200, 201	STA. 14+38.84 OFFSET 38.56 LT.	N = 1465062.21 E = 596558.73	<u>81.90</u>	(SW) 77.5 (N) 75.00	
S-19	STORM MANHOLE J BTM (ALT A)	200, 201	STA. 204+89.22 OFFSET 4.17 RT.	N = 1465512.90 E = 596557.73	74.66	(S) 70.00 (E) 70.00	
S-20	TYPE 5 CURB INLET J BTM (ALT A)	211, 200 201	STA. 204+88.93 OFFSET 33.67 RT.	N = 1465512.67 E = 596587.23	75.38	(W) 69.80 (E) 69.80	
S-21	STORM MANHOLE J BTM (ALT A)	200, 201	STA. 204+88.59 OFFSET 122.31 RT.	N = 1465512.52 E = 596675.88	74.23	(W) 69.65 (NE) 69.6	
S-22	CONCRETE ENDWALL 45° SKEW	250	STA. 204+99.84 OFFSET 133.19 RT.	N = 1465523.79 E = 596686.73	72.79	69.64	

STORM STRUCTURE TABLE FOR POND						
NAME	DESCRIPTION	FDOT INDEX NO.	NORTHING EASTING	TOP (RIM, GRATE, ETC.)	INVERT(S)	
S-23	MODIFIED TYPE H DBI 7'-7"x 4' (NO GRATE)	232	N = 1465524.45 E = 597871.52	71.10	(E) 64.00	
S-24	CONCRETE ENDWALL	250	N = 1465524.32 E = 597934.84	69.16	(W) 63.50	





DADE CITY DOWNTOWN STORMWATER
CAPITAL IMPROVEMENT PROJECT
STORM DETAILS

FLORIDA

DATE: ____March 21, 2012 DRAWN BY: ___CBK CHECKED BY: TJK

STEPHEN J. KUHN, P.E. FLA. REG. NO. 67486

PROJECT NO.: 19545

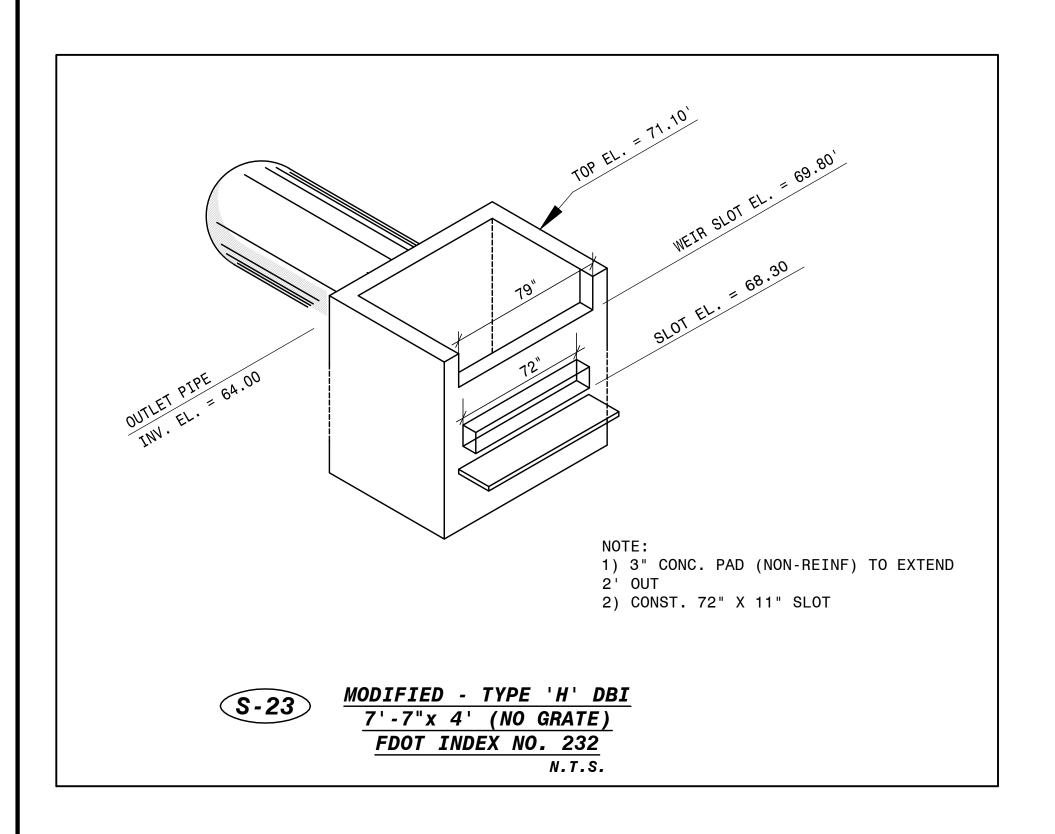
DATE:

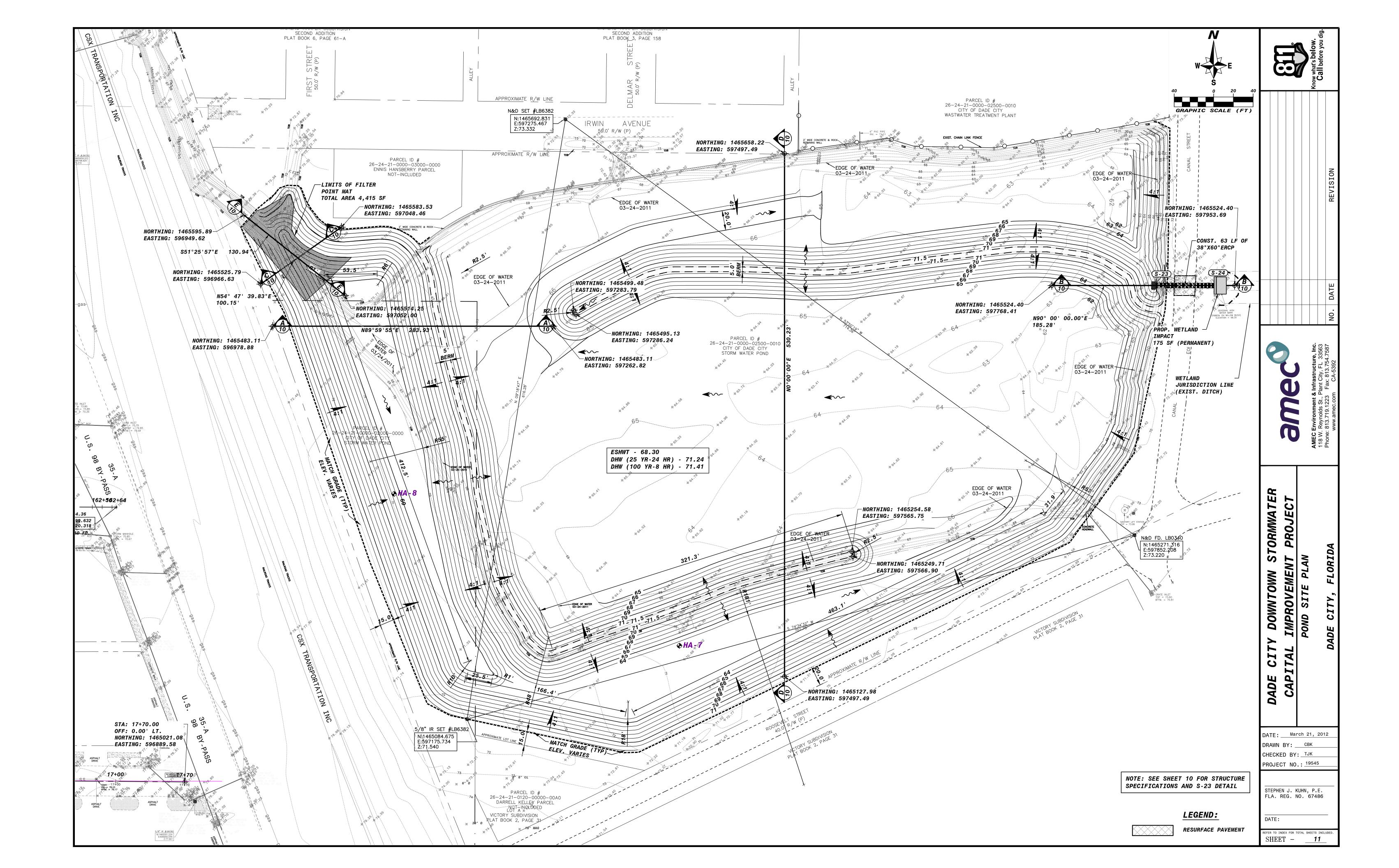
REFER TO INDEX FOR TOTAL SHEETS INCLUDED.

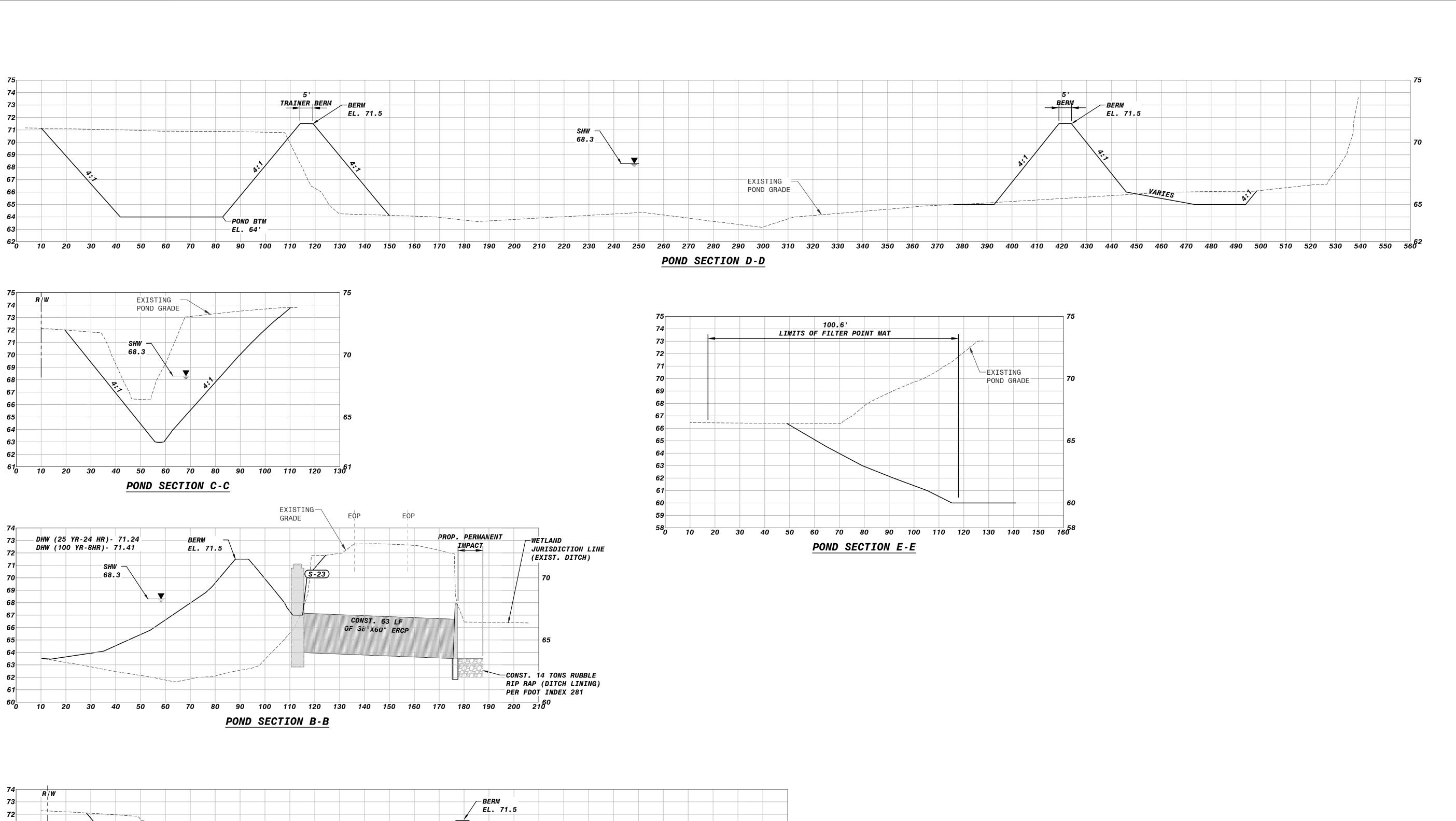
SHEET - _____10__

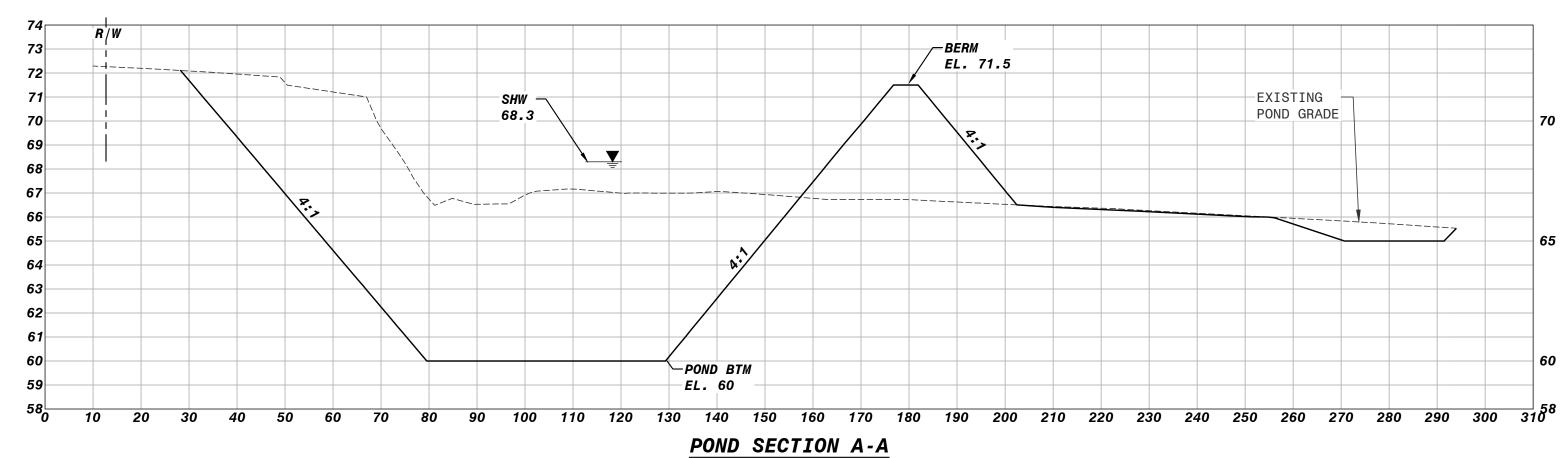
NOTE:

ALL TYPE V INLETS TO BE CONSTRUCTED WITH "VALLEY" PARALLEL TO LONGITUDINAL SLOPE OF ROAD.









NOTE: SEE SHEET 11 FOR NORTHING & EASTING AND BEARING FOR ALL CROSS SECTION LOCATION.

DADE CITY DOWNTOWN STORMWATER
CAPITAL IMPROVEMENT PROJECT
POND CROSS SECTIONS DATE: ____March 21, 2012 DRAWN BY: ____CBK CHECKED BY: TJK PROJECT NO.: 19545

STEPHEN J. KUHN, P.E. FLA. REG. NO. 67486

REFER TO INDEX FOR TOTAL SHEETS INCLUDED.

SHEET - 12

DATE:

