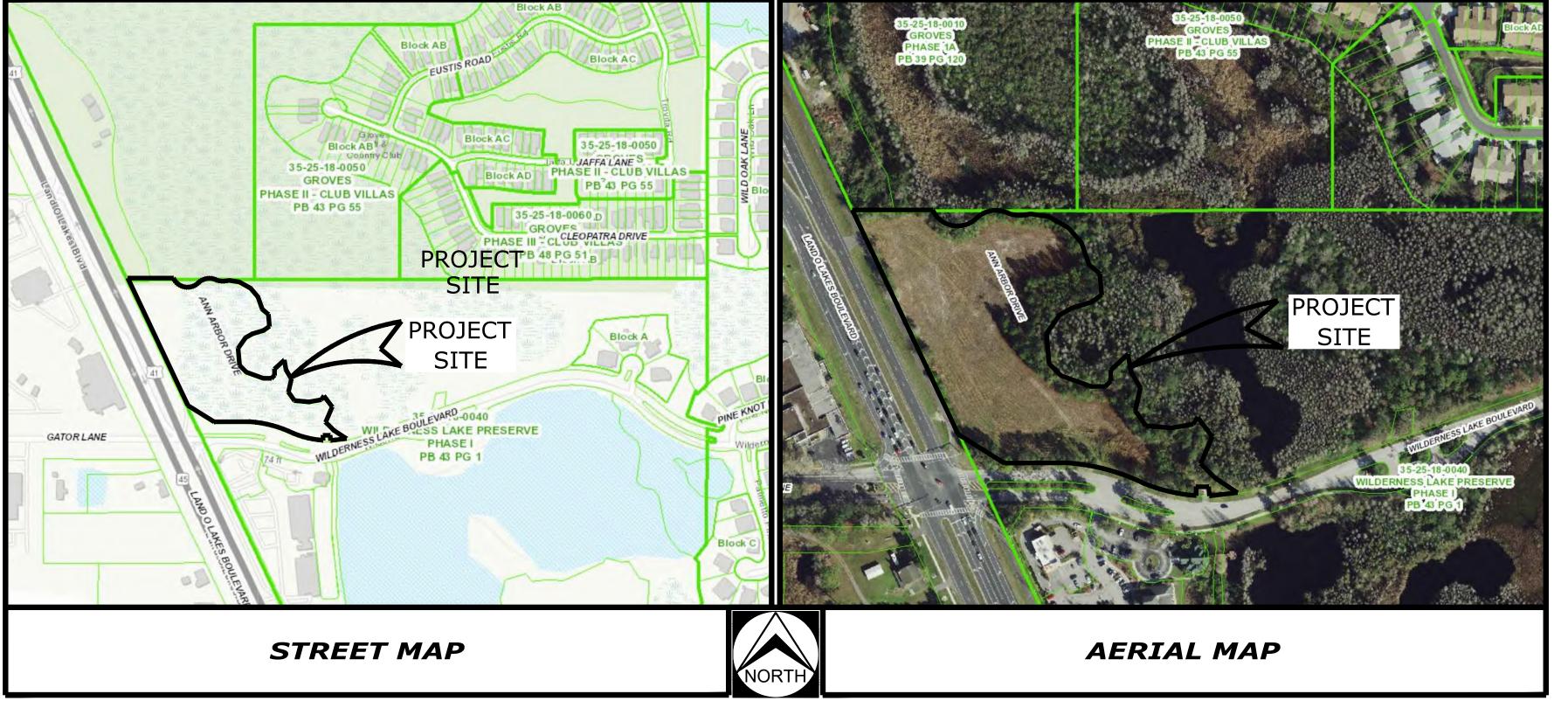
WILDERNESS LAKES

PRELIMINARY SITE PLANS, CONSTRUCTION PLAN, STORMWATER MANAGEMENT PLAN

SECTION 35 - TOWNSHIP 25 S - RANGE 18 E PARCEL NO. 35-25-18-0040-00100-0000 PASCO COUNTY

LEGAL DESCRIPTION

TRACT "1" (COMMERCIAL OUT PARCEL NORTH), WILDERNESS LAKE PRESERVE - PHASE I, AS



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OWNER CONTACT

ARBOR CAPITAL DEVELOPMENTS LLC

27658 CASHFORD CIR STE 101 WESLEY CHAPEL, FL 33544

CONTACT: AIHAB GERGES PHONE: 813-263-8168

EMAIL: aihab@arborcapital.org

DESIGN PROFESSIONALS

ARCHITECT

GEOTECH

CIVIL ENGINEER/PLANNER: NORTHSIDE ENGINEERING, INC. 300 SOUTH BELCHER ROAD CLEARWATER, FLORIDA 33765 CONTACT: HOUSH GHOVAEE PHONE: 727-443-2869

EMAIL: housh@northsideengineering.net

GEOPOINT SURVEYING, INC. 555 WINDERLY PLACE, SUITE 109 MAITLAND, FLORIDA 32751 CONTACT: MATT CHEPOLIS

GEO-TECH, INC. OCALA, FLORIDA PHONE: 325-694-7711 PHONE: 321-270-0440 EMAIL: MattChepolis@geopointsurvey.com

FLOOD ZONE INFORMATION

THE SUBJECT PARCEL LIES IN FLOOD ZONE "A" AND "AE", ACCORDING TO FLOOD INSURANCE RATE MAP, MAP NO. 12101C0238F FOR PASCO COUNTY, COMMUNITY NO. 120230, PASCO COUNTY, FLORIDA, DATED SEPTEMBER 26, 2014 AND ISSUED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY.

MATRIX		EXIS	EXISTING		POSED	ALLOWED/CODE	
ZONING:		MPUD		MPUD		OK.	
USAGE:		VACA	VACANT LAND		1ERCIAL	OK.	
FUTURE LAND USE:		RES-3		RES-3		OK.	
1.07.4554 (0)	2000)	UPLAND	253,615.3 S.F. 5.822 ACRES	226,668.9 S.F. 5.204 ACRES	253,615.3 S.F. 5.822 ACRES	226,668.9 S.F. 5.204 ACRES	-
LOT AREA (GI	RUSS):	WETLAND		26,946.4 S.F. 0.618 ACRES		26,946.4 S.F. 0.618 ACRES	
BUILDING COVERAGE:		0 S.F.		18,265 S.F.		-	
FLOOR AREA RATIO: (FAR)		0 S.F. 0.0		18.265 S.F. (0.08)		0.27 (MAX) (61,202 S.F. MAX.)	
BLDG. SETBACKS:	FRONT (SOUTH)		-		145.8'		25'
	FRONT (WEST)		-		35.7'		25'
	SIDE (EAST)		-		89.7'		0'
	REAR (NORTH)		-		32.1'		0'
BLDG. HEIGHT:		-		35' MAX.		35'	
VEHICULAR USE AREA (VUA):		-		87,272 S.F.		-	
INTERIOR LANDSCAPING:		-		-		-	
IMPERVIOUS SURFACE RATIO: (I.S.R.)		-		111,341.22 S.F. 0.491		-	
OPEN SPACE: (S.F. & % OF GROSS SITE)			-		7.68 S.F. 1.9%	-	
PARKING:		-		120 SPACES (INCLUDED 6 ADA PARKING SPACES)		114 SPACES	

PARKING CALCULATIONS: - ON-PREMISES WITH DRIVE-THROUGH = 1 / 150 GFA = 5,310 / 150 GFA = 35.4 SPACES - ON-PREMISES WITH NO DRIVE-THROUGH = 1 / 100 GFA = 6,125 / 100 GFA = 61.25 SPACES - FREE-STANDING RETAIL = 1 / 300 GFA = 5.170 / 300 = 17.2 SPACES

TOTAL REQUIRED: 114 PARKING SPACES



UTILITY PROVIDER

PASCO COUNTY UTILITIES 19420 CENTRAL BLVD LAND O LAKES, FL 34637 (727) 847-8145

PASCO COUNTY UTILITIES 19420 CENTRAL BLVD LAND O LAKES, FL 34637 (727) 847-8145

ELECTRIC: DUKE ENERGY 13338 INTERLAKEN ROAD ODESSA, FL 34655 (800) 777-9898

PASCO COUNTY FIRE RESCUE - STATION 22 9930 LAND O' LAKES BLVD, LAND O' LAKES, FL 34637 (813) 929-2750

AGENCY RESPONSE STAMPS



onald B. Fairbairn, P.E. ON THE DATE ADJACENT TO T

PROJECT# **ISSUE DATE:** 09/09/24 **REVISIONS:** No. Date Description 11/06/24 1st Submittal

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/ /
/ / / DRAWN BY : **KB**

Northside

GENERAL CONSTRUCTION NOTES

- ALL DESIGN AND CONSTRUCTION MUST CONFORM TO THE MINIMUM STANDARDS SET DOWN IN THE PASCO COUNTY LAND DEVELOPMENT ZONING AND / OR RELATED ORDINANCES 2. DEVELOPMENT SHALL BE IN ACCORDANCE WITH THE APPROVED MASTER DEVELOPMENT PLAN. THESE CONSTRUCTION
- PLANS SHALL BE, GOVERNED BY THE LAND DEVELOPMENT CODE IN FEFECT AT THE TIME OF SUBMITAL . ALL ELEVATIONS ARE REFERENCED FROM N.A.V.D. 1988. 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
- WILL VERIFY THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES AFFECTING THIS WORK PRIOR TO CONSTRUCTION. 5. THE CONTRACTOR SHALL CHECK THE PLANS FOR CONFLICTS AND DISCREPANCIES PRIOR TO CONSTRUCTION. THE
- CONTRACTOR SHALL NOTIFY THE OWNER'S ENGINEER OF ANY CONFLICTS OR DISCREPANCIES BEFORE PERFORMING ANY WORK IN THE AFFECTED AREA
- 6. 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 "SUNSHINE" AT 1-800-432-4770 MINIMUM OF 2 DAYS AND MAXIMUM OF 5 DAYS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITIES NOT INCLUDED IN THE "SUNSHINE" PROGRAM. CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION SAFETY.
- 8. ALL UNDERGROUND UTILITIES MUST BE IN PLACE AND TESTED AND INSPECTED PRIOR TO BASE AND SURFACE
- 9 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, SCHEDULE INSPECTIONS ACCORDING TO AGENCY INSTRUCTION AND THE CONTRACTOR SHALL PAY ANY
- 10. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL TO THE OWNER'S ENGINEER; SHOP DRAWINGS ON ALL PRECAST AND MANUFACTURED ITEMS FOR THIS SITE. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE. ALL SHOP DRAWINGS ARE TO BE REVIEWED AND APPROVED BY THE CONTRACTOR PRIOR TO SUBMITTAL TO THE OWNER'S ENGINEER. 11. AT LEAST THREE (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 12. BACKFILL MATERIAL SHALL BE SOLIDLY TAMPED AROUND PIPES IN 6" LAYERS UP TO A LEVEL OF AT LEAST ONE FOOT
- ABOVE THE TOP OF THE PIPE. IN AREAS TO BE PAVED, BACKFILL SHALL BE COMPACTED TO 100% MAXIMUM DENSITY AS 13. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF AT LEAST 3,000 P.S.I. IN 28 DAYS, UNLESS OTHERWISE NOTED.
- 14. ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THE WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITIONS UNLESS. SPECIFICALLY EXEMPTED BY THE PLANS. ADDITIONAL COSTS ARE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION IS TO BE ALLOWED 15. ALL DISTURBED AREAS WHICH ARE NOT TO BE SODDED, ARE TO BE SEEDED AND MULCHED TO DOT STANDARDS, AND
- MAINTAINED UNTIL A SATISFACTORY STAND OF GRASS, ACCEPTABLE TO THE REGULATORY AGENCY AND ENGINEER OF RECORD, HAVE BEEN OBTAINED. ANY WASHOUTS, REGRADING, RESEEDING, AND GRASSING WORK, AND OTHER EROSION WORK REQUIRED, WILL BE PERFORMED BY THE CONTRACTOR, AT HIS EXPENSE, UNTIL THE SYSTEM IS ACCEPTED FOR MAINTENANCE, BY THE REGULATORY AGENCY AND ENGINEER OF RECORD. 16. THE SOILS ENGINEER IS TO SUPPLY THE ENGINEER WITH A PHOTOCOPY OF ALL COMPACTION TESTS, AND ASPHALT
- RESULTS. THE SOILS ENGINEER IS TO CERTIFY TO THE ENGINEER OF RECORD, 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
- 17 THE CONTRACTOR SHALL MAINTAIN A COPY OF THE APPROVED PLANS AND PERMITS 18. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MEANS AND METHODS FOR CONSTRUCTION SITE SAFETY 19. ALL SODDING, SEEDING AND MULCHING SHALL INCLUDE WATERING AND FERTILIZATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THESE AREAS UNTIL THE PROJECT IS COMPLETED AND ACCEPTED BY THE OWNER.
- 20. ALL PIPE LENGTHS ARE PLUS OR MINUS. PIPE MEASUREMENTS ARE CENTER TO CENTER OF STRUCTURES OR FITTINGS. PIPE MEASUREMENTS FOR MITERED END SECTIONS ARE TO END OF PIPE. 21. EXISTING PAVEMENT SHALL BE SAW-CUT WHERE NEW PAVEMENT IS TO BE ADDED OR EXISTING PAVEMENT TO BE
- 22. ADJUSTMENTS OF INLETS, JUNCTION BOXES, MANHOLE TOPS, WATER VALVES, WATER METERS, ETC., SHALL BE INCLUDED IN THE CONTRACTOR'S BID AND NO CLAIM SHALL BE MADE AGAINST THE OWNER OR ENGINEER FOR THESE
- 23. ALL BACKFILL OVER ANY PIPE (STORM SEWER, SANITARY SEWER, OR WATERLINES) THAT IS INSTALLED UNDER ROADWAYS OR WITHIN THE EMBANKMENT OF THE ROADWAY. SHALL BE COMPACTED IN ACCORDANCE WITH F.D.O.T.
- STANDARD SPECIFICATIONS, SECTION 125-8.3, LATEST EDITION. 24. THE CONTRACTOR PERFORMING TRENCH EXCAVATION, IN EXCESS OF 5' FEET IN DEPTH, SHALL COMPLY WITH THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION'S (OSHA) TRENCH EXCAVATION SAFETY STANDARDS, 29 C.F.R., S.1926.650, SUBPART P, INCLUDING ALL SUBSEQUENT REVISIONS OR UPDATES TO THE STANDARDS AS ADOPTED BY THE
- DEPARTMENT OF LABOR AND EMPLOYMENT SECURITY (DLES). 25. CONTRACTOR TO COORDINATE THE POINTS OF CONNECTIONS OF THE UTILITIES WITH DIFFERENT SUBS. SITE CONTRACTOR TO CONSTRUCT THE UNDERGROUND INFRASTRUCTURES I.E. SANITARY SEWER, STORM SEWER, WATER LINES, FIRE LINES, ETC., TO 5' OUTSIDE OF THE BLDG(S). THE PLUMBING CONTRACTOR IS TO CONNECT AND MEET THE INVERT ELEVATIONS OF THE SAID UTILITIES. ANY UTILITY WORK PERFORMED WITHIN 5' OF THE BUILDING. SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR. ALL WORK SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND
- LOCAL CODES, ORDINANCES AND REQUIREMENTS. 26. ALL WORK SHALL BE PERFORMED AND FINISHED IN A WORKMANLIKE MANNER TO COMPLETE SATISFACTION OF THE ARCHITECT/ENGINEER IN ACCORDANCE WITH THE BEST RECOGNIZED TRADE PRACTICES. 27. DEVIATIONS TO THESE PLANS AND SPECIFICATIONS WITHOUT CONSENT OF THE ENGINEER MAY BE CAUSE FOR THE WORK
- TO BE UNACCEPTABLE. DEVIATIONS SHALL RECEIVE WRITTEN APPROVAL FROM THE ENGINEER. 28. SIGNS, BUFFER WALLS & FENCES ARE SUBJECT TO SEPARATE SUBMITTAL(S) AND PERMITTING. DEVIATIONS SHALL RECEIVE WRITTEN APPROVAL FROM THE ENGINEER.
- 29 SAFE PEDESTRIAN TRAFFIC TO BE MAINTAINED AT ALL TIMES 30. ANY SIDEWALK WHICH RECOMES LINDERMINED MUST BE REMOVED AND REPLACED. SIDEWALKS TO BE RECONSTRUCTED WITHIN THREE DAYS AFTER REMOVAL. WHEN EXISTING SIDEWALK IS REMOVED IT IS TO BE REMOVED TO THE NEAREST
- JOINT.THIS APPLIES TO ALL SIDEWALK. SAW CUT EXISTING EDGE OF PAVEMENT PRIOR TO PLACING ASPHALT.
- 32. CONSTRUCTION EQUIPMENT IS NOT ALLOWED ON SITE UNTIL THE HABITAT MANAGEMENT AND LANDSCAPE PERMIT IS IN

CLEARING AND GRUBBING NOTES

- 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 THE CONTRACTOR IS TO PREPARE THE SITE PRIOR TO BEGINNING THE ACTUAL CONSTRUCTION IN ACCORDANCE, WITH THE SOILS TESTING REPORT. COPIES OF THE SOILS REPORT ARE AVAILABLE THROUGH THE OWNER OR THE SOILS
- QUESTIONS REGARDING SITE PREPARATION REQUIREMENTS DESCRIBED IN THE SOILS REPORT ARE TO BE DIRECTED TO THE SOILS TESTING COMPANY. 3. THE 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 IMMEDIATELY
- FOLLOWING CONSTRUCTION. 4. 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. 5. ALL CONSTRUCTION DEBRIS AND OTHER WASTE MATERIAL SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH

APPLICABLE REGULATIONS. ONLY "GRADING BY HAND" IS PERMITTED WITHIN THE CANOPY LINE OF TREES THAT ARE TO

- 6. THE CONTRACTOR IS TO OBTAIN ALL NECESSARY PERMITS FOR REMOVING ANY EXISTING STRUCTURES. 7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES TO DISCONNECT OR REMOVE THEIR
- FACILITIES PRIOR TO REMOVING OR DEMOLISHING. 8. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAKING A VISUAL INSPECTION OF THE SITE AND WILL BE RESPONSIBLE FOR THE DEMOLITION AND REMOVAL OF ALL UNDERGROUND AND ABOVE GROUND STRUCTURES THAT WILL NOT BE INCORPORATED INTO THE NEW FACILITIES. SHOULD ANY DISCREPANCIES EXIST WITH THE PLANS. THE CONTRACTOR
- SHALL BE RESPONSIBLE FOR CALLING THE OWNER AND REQUESTING A CLARIFICATION OF THE PLANS PRIOR TO 9. 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
- REQUIRED BY CONSTRUCTION PROGRESS. 10. ALL EROSION AND SILTATION CONTROL METHODS SHALL BE IMPLEMENTED PRIOR TO THE START OF CONSTRUCTION AND MAINTAINED UNTIL CONSTRUCTION IS COMPLETE. 11. WHEN CONSTRUCTION IS COMPLETED, THE RETENTION/ DETENTION AREAS WILL BE RESHAPED, CLEANED OF SILT, MUD
- AND DEBRIS. AND RE-SODDED IN ACCORDANCE WITH THE PLANS. 12. CONTRACTOR IS TO PROVIDE EROSION CONTROL/SEDIMENTATION BARRIER (HAY BALES OR SILTATION CURTAIN) TO
- PREVENT SILTATION OF ADJACENT PROPERTIES, STREETS, STORM SEWERS, WATERWAYS, AND EXISTING WETLANDS.

EROSION AND SILTATION CONTROL NOTES

- 1. SEDIMENT TRAPPING MEASURES: SEDIMENT BASINS AND TRAPS, PERIMETER BERMS, FILTER FENCES, BERMS, SEDIMENT BARRIERS, VEGETATIVE BUFFERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT AND/OR PREVENT THE TRANSPORT OF SEDIMENT ONTO ADJACENT PROPERTIES, OR INTO EXISTING WATER BODIES, MUST BE INSTALLED, CONSTRUCTED OR. IN THE CASE OF VEGETATIVE BUFFERS, PROTECTED FROM DISTURBANCE, AS A FIRST STEP IN THE LAND ALTERATION PROCESS. SUCH SYSTEMS SHALL BE FULLY OPERATIVE AND INSPECTED BY THE ENGINEER BEFORE ANY OTHER DISTURBANCE OF THE SITE BEGINS.
- 2. PROTECTION OF 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 REQUIRED BY CONSTRUCTION PROGRESS, AND WHICH MUST BE APPROVED BY THE ENGINEER BEFORE INSTALLATION
- 3. SEDIMENTATION BASIN: THE CONTRACTOR WILL BE REQUIRED TO PROHIBIT DISCHARGE OF SILT THROUGH THE OUTFALL STRUCTURE DURING CONSTRUCTION OF ANY RETENTION AREA AND WILL BE REQUIRED TO CLEAN OUT THE RETENTION AREA BEFORE INSTALLING ANY PERMANENT SUBDRAIN PIPE. IN ADDITION, PERMANENT RETENTION AREAS MUST BE TOTALLY CLEANED OUT AND OPERATE PROPERLY AT FINAL INSPECTION AND AT THE END OF THE WARRANTY PERIOD. 4. SWALES, DITCHES AND CHANNELS: ALL SWALES, DITCHES AND CHANNELS LEADING FROM THE SITE SHALL BE SODDED
- WITHIN (3) DAYS OF EXCAVATION. ALL OTHER INTERIOR SWALES, ETC., INCLUDING DETENTION AREAS WILL BE SODDED PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY. 5. PROTECTION AND STABILIZATION OF SOIL STOCKPILES: FILL MATERIAL STOCKPILES SHALL BE PROTECTED AT ALL TIMES BY ON-SITE DRAINAGE CONTROLS WHICH PREVENT EROSION OF THE STOCKPILED MATERIAL. CONTROL OF DUST FROM
- SUCH STOCKPILED MATERIAL, MAY BE REQUIRED, DEPENDING UPON THEIR LOCATION AND THE EXPECTED LENGTH OF TIME THE STOCKPILES WILL BE PRESENT. IN NO CASE SHALL UNSTABILIZED STOCKPILE REMAIN AFTER THIRTY (30) 6. MAINTENANCE: ALL EROSION AND SILTATION CONTROL DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER
- EACH RAINFALL AND WILL BE CLEANED OUT AND/OR REPAIRED AS REQUIRED. REQUIRED EROSION CONTROL MEASURES MUST REMAIN INTACT THROUGHOUT CONSTRUCTION. FAILURE TO INSTALL OR PROPERLY MAINTAIN THESE BARRICADES WILL RESULT IN ENFORCEMENT ACTION WHICH MAY INCLUDE CITATIONS, AS PROVIDED BY CHAPTERS 40D-4 & 40D-40 F.A.C. CAN RESULT IN A PENALTY NOT TO EXCEED \$10,000 PEROFFENSE WITH
- EACH DATE DURING WHICH SUCH VIOLATION OCCURS CONSTITUTING A OFFENSE. ALL DISTURBED CONDITIONS SHALL BE RESTORED TO NATURAL CONDITIONS OR BETTER. DURING CONSTRUCTION SEDIMENT IS TO REMAIN ON SITE. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION. OF EROSION AND SEDIMENT CONTROL DEVICES PRIOR TO INITIATING AND DURING ALL PHASES OF LAND CLEARING AND CONSTRUCTION TO PREVENT SOIL EROSION AND SILTATION.

WATER SYSTEM SPECIFICATIONS AND NOTES

8. ALL FITTINGS 2" AND SMALLER SHALL BE SDR21.

- I. CONTRACTOR SHALL NOT BEGIN CONSTRUCTION ON ANY PART OF THE WATER SYSTEM UNLESS D.E.P. PERMIT HAS BEEN
- 2. ALL WATER MAINS SHALL HAVE A MINIMUM OF 36 INCHES OF COVER. ALL WATER SYSTEM WORK SHALL CONFORM WITH LOCAL AND STATE REGULATORY STANDARDS AND SPECIFICATIONS. 4. ALL DUCTILE IRON PIPE SHALL BE CLASS 52 IN ACCORDANCE WITH ANSI A 21.50 (AWWA C 150) AND ANSI A 21.31 (AWWA C 151) 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 21.4 (AWWA C
- 5. 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.
- 6. 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 . WATER MAIN PIPING OF LESS THAN 4" SHALL BE PER ASTM D2241-89.
- 9. ALL GATE VALVES 2" OR LARGER SHALL BE RESILIENT SEAT OR RESILIENT WEDGE MEETING THE REQUIREMENTS OF
- 10. ALL FIRE HYDRANTS SHALL MEET THE REQUIREMENTS OF AWWA C502 AND SHALL BE APPROVED BY THE LOCAL UTILITY
- 11. THE CONTRACTOR IS TO INSTALL TEMPORARY BLOW-OFFS AT THE END OF WATER SERVICE LATERALS TO ASSURE

12. RESTRAINED JOINTS SHALL BE PROVIDED AT ALL FITTINGS AND HYDRANTS.

ADEQUATE ELUSHING AND DISINEECTION

3. MATERIALS AND CONSTRUCTION METHODS FOR WATER DISTRIBUTION SYSTEM SHALL BE IN ACCORDANCE WITH THE LOCAL REGULATORY AGENCY CODES 14. THE IRRIGATION SYSTEM SHALL HAVE PURPLE COLOR PIPING AND LABELING ON THE PIPE TO INSURE DIFFERENTIATION

WATER SYSTEM INSPECTION, TESTING AND CERTIFICATION

- REQUIREMENTS 1. ALL COMPONENTS OF THE WATER SYSTEM, INCLUDING FITTINGS, CONNECTIONS, VALVES AND FIRE HYDRANTS SHALL REMAIN UNCOVERED UNTIL PROPERLY PRESSURE TESTED AND ACCEPTED BY NORTHSIDE ENGINEERING AND
- COUNTY/CITY INSPECTOR. CONTRACTOR TO NOTIFY NORTHSIDE ENGINEERING SERVICES AND PINELLAS COUNTY WATER DEPT. INSPECTORS 48 HOURS IN ADVANCE OF PERFORMING INSPECTIONS. 2 AFTER COMPLETION OF INSTALLATION OF NEW WATER MAINS, PRESSURE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH PASCO COUNTY WATER SYSTEM STANDARDS. SPECIFICATIONS AND CHLORINATION REQUIREMENTS SAMPLING OF NEW WATER MAINS SHALL CONFORM WITH F.D.E.P. REQUIREMENTS AND RESULTS FORWARDED TO NORTHSIDE ENGINEERING, INC. WITHIN 3 DAYS.
- CONTRACTOR SHALL PROVIDE AND FORWARD TO NORTHSIDE ENGINEERING, INC. 6 COPIES OF THE CERTIFIED RECORD DRAWINGS PREPARED, SIGNED AND SEALED BY A LAND SURVEYOR. DRAWINGS SHALL SHOW THE EXACT LOCATION OF THE ENTIRE WATER AND FIRE NETWORK SYSTEM WITH THE TOP ELEVATION OF THE PIPES INDICATED IN CRITICAL LOCATIONS, CRITICAL LOCATIONS REFER TO AREAS WHERE WATER LINES CROSS SANITARY AND STORM PIPES. TO INSURE MIN COVER HORIZONTAL AND VERTICAL DIMENSIONS ARE MET. CRITICAL ELEVATIONS AND DIMENSIONS MUST MEET OF EXCEED MINIMUM CLEARANCE STANDARDS AS SET BY F.D.E.P., DEVIATION SHALL CONSTITUTE REMOVAL AND
- REPLACEMENT AT CONTRACTOR'S EXPENSE. . NORTHSIDE ENGINEERING, INC. WILL SUBMIT FINAL AS-BUILT, CHLORINATION TEST RESULTS ALONG WITH THE CERTIFICATION FORM TO F.D.E.P. TO OBTAIN CLEARANCE TO PLACE WATER SYSTEM INTO SERVICE.
- 5. CONTRACTOR UNDER NO CIRCUMSTANCES SHALL PLACE THE WATER/FIRE SYSTEM INTO SERVICE UNLESS A LETTER OF CLEARANCE/CERTIFICATION HAS BEEN ISSUED BY F.D.E.P. 6. ANY DEVIATION FROM THE REQUIREMENTS AS STIPULATED HEREWITH COULD RESULT IN FINES AS DETERMINED BY

SANITARY SEWER SPECIFICATIONS AND NOTES

F.D.E.P. WHICH SHALL BE PAID BY THE CONTRACTOR.

- 1. CONTRACTOR SHALL NOT BEGIN CONSTRUCTION OF ANY PORTION OF THE SANITARY SYSTEM UNLESS F.D.E.P. PERMIT HAS BEEN ISSUED. ALL SANITARY SEWER MAINS & LATERALS SHALL HAVE A MINIMUM OF 36 INCHES OF COVER.
- ALL SANITARY SEWER MAINS & SERVICE LATERALS SHALL BE CONSTRUCTED OF POLYVINYL CHLORIDE PIPE, SDR 35 OR AS OTHERWISE INDICATED ON THE CONSTRUCTION DRAWINGS 4. ALL SANITARY SEWER WORK SHALL CONFORM WITH LOCAL & STATE REGULATORY STANDARDS, SPECIFICATIONS AND INSPECTIONS.
- 5. PRIOR TO COMMENCING WORK WHICH REQUIRES CONNECTING NEW LINES TO EXISTING LINES OR APPURTENANCES, THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF EXISTING CONNECTION POINTS AND NOTIFY NORTHSIDE ENGINEERING, INC. OF ANY CONFLICTS OR DISCREPANCIES. PVC PIPE AND FITTINGS SHALL CONFORM TO ASTM SPECIFICATIONS DESIGNATION D-3034-77C, SDR 35. INSTALLATION OF
- SDR 35 PIPE SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF ASTM SPECIFICATION SECTION D2321. ALL SANITARY SEWER PIPELINES SHALL BE SOLID GREEN IN COLOR ALL PVC FORCE MAINS SHALL BE CLASS 2000, SDR 21, COLOR GREEN, WITH A GREEN MAGNETIC TAPE A MINIMUM OF 2" WIDE, PLACED 1 FOOT BELOW THE PROPOSED GRADE. THE PRINTING ON THE MAGNETIC TAPE SHOULD READ
- 8. ALL DUCTILE IRON PIPE SHALL BE CLASS 52 IN ACCORDANCE WITH ANSI A 21.50 (AWWA C 150) AND ANSI A21.51 (AWWA C 151). DUCTILE IRON PIPE SHALL RECEIVE INTERIOR AND EXTERIOR BITUMINOUS COATING IN ACCORDANCE WITH ANSI A
- 21.6. A 21.8. OR A 21.51. 9. ALL SANITARY SEWER GRAVITY MAINS OR SANITARY SEWER FORCEMAINS THAT REQUIRE D.I.P. ARE TO BE POLYLINED OR

10. ALL SANITARY SEWER MANHOLE COVERS SHALL BE TRAFFIC RATED FOR HS-20 LOADING. SANITARY SEWER INSPECTION, TESTING AND CERTIFICATION REQUIREMENTS

- ALL COMPONENTS OF THE SANITARY SEWER SYSTEM INCLUDING FITTINGS, WYE CONNECTIONS, CLEAN-OUTS, MANHOLES SHALL REMAIN UNCOVERED UNTIL PROPERLY INSPECTED, TESTED AND ACCEPTED BY NORTHSIDE ENGINEERING, INC. AND THE COUNTY/CITY INSPECTORS
- CONTRACTOR SHALL PROVIDE AND FORWARD TO NORTHSIDE ENGINEERING, INC. 6 COPIES OF THE CERTIFIED RECORD DRAWINGS PREPARED, SIGNED AND SEALED BY A LAND SURVEYOR. DRAWINGS SHALL SHOW THE EXACT LOCATION OF HE SANITARY SEWER STRUCTURES AND THE ENTIRE SANITARY SEWER SYSTEM. SAID DRAWINGS SHALL ALSO SHOW THE TOP AND INVERT ELEVATION OF THE STRUCTURES AS WELL AS THE INVERT ELEVATION OF THE SANITARY SEWER PIPES IN CRITICAL LOCATIONS. CRITICAL LOCATIONS REFER TO AREAS WHERE SANITARY SEWER LINES CROSS WATER, FIRE AND STORM PIPES. CRITICAL ELEVATIONS AND DIMENSIONS MUST MEET OR EXCEED MINIMUM CLEARANCE STANDARDS AS SET BY F.D.E.P. DEVIATION SHALL CONSTITUTE REMOVAL AND REPLACEMENT AT CONTRACTOR'S EXPENSE.
- 3. AFTER COMPLETION OF INSTALLATION OF THE NEW SANITARY SEWER STRUCTURES AND PIPES. ALL GRAVITY SEWER PIPING SHALL BE SUBJECT TO A TELEVISION INSPECTION, PERFORMED BY THE CONTRACTOR. CONTRACTOR TO NOTIFY NORTHSIDE ENGINEERING 48 HOURS IN ADVANCE TO SCHEDULE INSPECTION. 4. THE CONTRACTOR SHALL PERFORM AN EXFILTRATION TEST ON ALL GRAVITY SEWERS INSTALLED IN ACCORDANCE WITH
- THE REGULATION AGENCY HAVING JURISDICTION MAXIMUM ALLOWABLE LEAKAGE RATE: 100 GPD PER INCH PIPE DIAMETER PER MILE. TEST RESULTS ARE TO BE SUBMITTED TO THE REGULATORY AGENCY FOR APPROVAL COORDINATION AND NOTIFICATION OF ALL PARTIES IS THE CONTRACTOR'S RESPONSIBILITY. 5. ALL FORCE MAINS SHALL BE SUBJECT TO A HYDROSTATIC PRESSURE TEST IN ACCORDANCE WITH THE REGULATORY
- AGENCY HAVING JURISDICTION. COORDINATION AND NOTIFICATION OF ALL PARTIES IS THE CONTRACTOR'S 6. NORTHSIDE ENGINEERING. INC. WILL SUBMIT FINAL AS-BUILT AND EXFILTRATION TESTS WITH THE CERTIFICATION FORM TO EDEP TO OBTAIN CLEARANCE TO PLACE SANITARY SEWER SYSTEM INTO SERVICE
- CONTRACTOR UNDER NO CIRCUMSTANCES SHALL PLACE THE SANITARY SEWER SYSTEM INTO SERVICE UNLESS A LETTER OF CLEARANCE/CERTIFICATION HAS BEEN ISSUED BY F.D.E.P. 8. ANY DEVIATION FROM THE REQUIREMENTS AS STIPULATED HEREWITH COULD RESULT IN FINES AS DETERMINED BY F.D.E.P. WHICH SHALL BE PAID BY THE CONTRACTOR.

WATER/SEWER CLEARANCE REQUIREMENTS

SE OF THIS SECTION, THE PHASE "WATER MAINS" SHALL MEAN MAINS, INCLUDING TREATMENT PLANT PROCESS PIPING, CONVEYING EITHER RAW, PARTIALLY TREATED, OR FINISHED DRINKING WATER, FIRE HYDRANT LEADS, AND SERVICE LINES THAT ARE UNDER THE CONTROL OF A PUBLIC WATER SYSTEM AND THAT HAVE AN INSIDE DIAMETER OF THREE (1) HORIZONTAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS. WASTEWATER

- OR STORMWATER FORCE MAINS, RECLAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS. WASTEWATER OR STORMWATER FORCE MAINS, RECLAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT AND (B) NEW OR RELOCATED. UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT
- LEAST THREE FEET. AND PREFERABLY TEN FEET. BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER. (C) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY-OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPING CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. THE MINIMUM
- HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY-TYPE SANITARY SEWERS SHALL BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE (D) BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER. DISTANCE OF AT LEAST TEN FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM" AS DEFINED IN SECTION 381.0065(2), F.S., AND RULE 64E-6.002,
- VERTICAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, AND RECLAIMED WATER PIPELINES. (A) NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY-OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX PREFERABLY 12 INCHES. ABOVE OR AT LEAST 12 INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE. (B) NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE-TYPE
- SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE. THE OTHER PIPELINE. (C) AT THE UTILITY CROSSING DESCRIBED IN PARAGRAPHS (A) AND (B) ABOVE. 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, ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF 62-610, F.A.C., AND AT LEAST SIX FEET 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,
- (A) NO WATER MAIN SHALL PASS THROUGH, OR COME INTO CONTACT WITH, ANY PART OF A SANITARY SEWER (B) EFFECTIVE AUGUST 28, 2003, WATER MAINS SHALL NOT BE CONSTRUCTED OR ALTERED TO PASS THROUGH, OR COME INTO CONTACT WITH, ANY PART OF A STORM SEWER MANHOLE OR INLET STRUCTURE, WHERE IT IS NOT TECHNICALLY FEASIBLE OR ECONOMICALLY SENSIBLE TO COMPLY WITH THIS REQUIREMENT (I.E., WHERE THERE IS

(3) SEPARATION BETWEEN WATER MAINS AND SANITARY OR STORM SEWER MANHOLES.

AND RULE 64E-6.002. F.A.C.

- CONFLICT IN THE ROUTING OF A WATER MAIN AND A STORM SEWER AND WHERE ALTERNATIVE ROUTING OF THE WATER MAIN OR THE STORM SEWER IS NOT TECHNICALLY FEASIBLE OR IS NOT ECONOMICALLY SENSIBLE), THE SHALL ALLOW EXCEPTIONS TO THIS REQUIREMENT (I.E., THE DEPARTMENT SHALL CONSTRUCTION OF CONFLICT MANHOLES), BUT SUPPLIES OF WATER OR PERSONS PROPOSING TO CONSTRUCT CONFLICT MANHOLES MUST FIRST OBTAIN A SPECIFIC PERMIT FROM THE DEPARTMENT IN ACCORDANCE WITH PART V OF THIS CHAPTER AND MUST PROVIDE IN THE PRELIMINARY DESIGN REPORT OR DRAWINGS, SPECIFICATIONS, AND DESIGN DATA ACCOMPANYING THEIR PERMIT APPLICATION THE FOLLOWING INFORMATION: (1) TECHNICAL OR ECONOMIC JUSTIFICATION FOR EACH CONFLICT MANHOLE.
- (2) A STATEMENT IDENTIFYING THE PARTY RESPONSIBLE FOR MAINTAINING EACH CONFLICT MANHOLE (3) ASSURANCE OF COMPLIANCE WITH THE DESIGN AND CONSTRUCTION SUB-SUBPARAGRAPHS A. THROUGH D. BELOW. (A) EACH WATER MAIN PASSING THROUGH A CONFLICT MANHOLE SHALL HAVE A FI FXIBI F WATERTIGHT JOINT ON EACH SIDE OF THE MANHOLE TO ACCOMMODATE DIFFERENTIAL SETTING BETWEEN THE MAIN AND THE MANHOLE. (B) WITHIN EACH CONFLICT MANHOLE, THE WATER MAIN PASSING THROUGH
- SHALL BE INSTALLED IN A WATERTIGHT CASING PIPE HAVING HIGH IMPACT STRENGTH (I.E., HAVING AN IMPACT AN IMPACT STRENGTH AT LEAST EQUAL TO THAT OF 0.25-INCH-THICK STRENGTH (I.E., HAVING DUCTILE IRON PIPE). (C) EACH CONFLICT MANHOLE SHALL HAVE AN ACCESS OPENING, AND SHALL BE SIZED, TO ALLOW FOR EASY CLEANING OF THE MANHOLE.
- (D) GRATINGS SHALL BE INSTALLED AT ALL STORM SEWER INLETS CONFLICT MANHOLÉ TO PREVENT LARGE OBJECTS FROM ENTERING THE MANHOLE. (4) SEPARATION BETWEEN FIRE HYDRANT DRAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, RECLAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS, NEW OR RELOCATED FIRE HYDRANTS WITH UNDERGROUND DRAINS SHALL BE LOCATED SO THAT THE DRAINS ARE AT LEAST THREE FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AT LEAST THREE FEET, AND PREFERABLY TEN FEET, FROM ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER, AT LEAST SIX FEET, AND PREFERABLY TEN FEET, FROM ANY EXISTING OR PROPOSED GRAVITY OR 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 AT LEAST TEN FEET FROM

ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM" AS DEFINED IN SECTION 381.0065(2), F.S.

- (5) EXCEPTIONS, WHERE IT IS NOT TECHNICALLY FEASIBLE OR ECONOMICALLY SENSIBLE TO COMPLY WITH THE REQUIREMENTS IN SUBSECTION (1) OR (2) ABOVE, THE DEPARTMENT SHALL ALLOW EXCEPTIONS TO THESE REQUIREMENTS IF SUPPLIES OF WATER OR CONSTRUCTION PERMIT APPLICANTS PROVIDE TECHNICAL OR ECONOMIC JUSTIFICATION FOR EACH EXCEPTION AND PROVIDE ALTERNATIVE CONSTRUCTION FEATURES THAT AFFORD A SIMILAR LEVEL OF RELIABILITY AND PUBLIC HEALTH PROTECTION, ACCEPTABLE ALTERNATIVE CONSTRUCTION FEATURES, INCLUDING THE FOLLOWING. (A) WHERE AN UNDERGROUND WATER MAIN IS BEING LAID LESS THAN THE REQUIRED MINIMUM HORIZONTAL DISTANCE FROM ANOTHER PIPELINE AND WHERE AN UNDERGROUND WATER MAIN IS CROSSING ANOTHER PIPELINE AND JOINTS IN THE WATER MAIN ARE BEING LOCATED LESS THAN THE REQUIRED MINIMUM DISTANCE FROM JOINTS IN THE OTHER PIPELINE.
- (1) USE OF PRESSURE-RATED PIPE CONFORMING TO THE AMERICAN WATER WORKS ASSOCIATION STANDARDS INCORPORATED INTO RULE 62-555.330, F.A.C., FOR THE OTHER PIPELINE IF IT IS A GRAVITY-OR, VACUUM-TYPE PIPELINE. (2) USE OF WELDED, FUSED, OR OTHERWISE RESTRAINED JOINTS FOR EITHER THE WATER MAIN OR THE
- (3) USE OF WATERTIGHT CASING PIPE OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR EITHER THE WATER MAIN OR THE OTHER PIPELINE. (B) WHERE AN UNDERGROUND WATER MAIN IS BEING LAID LESS THAN THREE FEET HORIZONTALLY FROM ANOTHER

PIPELINE AND WHERE AN UNDERGROUND WATER MAIN IS CROSSING ANOTHER PIPELINE AND IS BEING LAID LESS THAN THE REQUIRED MINIMUM VERTICAL DISTANCE FROM THE OTHER PIPELINE. (1) USE OF PIPE, OR CASING PIPE, HAVING HIGH IMPACT STRENGTH (I.E., HAVING AN IMPACT DUCTILE IRON PIPE) OR CONCRETE ENCASEMENT AT STRENGTH AT LEAST EQUAL TO THAT OF 0.25-INCH-THICK LEAST FOUR INCHES THICK FOR THE WATER MAIN, AND (2) USE OF PIPE, OR CASING PIPE, HAVING HIGH IMPACT STRENGTH (I.E., HAVING AN IMPACT DUCTILE IRON PIPE) OR CONCRETE ENCASEMENT AT STRENGTH AT LEAST EQUAL TO THAT OF 0.25-INCH-THICK LEAST FOUR INCHES THICK FOR THE OTHER PIPELINE IF IT IS NEW AND IS CONVEYING WASTEWATER OR

GRADING & DRAINAGE TESTING AND INSPECTION

- ALL DELETERIOUS SUBSTANCE MATERIAL, (I.E. MUCK, PEAT, BURIED DEBRIS), IS TO BE EXCAVATED IN ACCORDANCE WITH THESE PLANS, OR AS DIRECTED BY THE OWNER'S ENGINEER, OR OWNER'S SOIL TESTING COMPANY. DELETERIOUS
- MATERIAL IS TO BE STOCKPILED 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. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATING AGAINST COLLAPSE AND WILL 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. . ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE CLASS III (ASTM C-76) UNLESS OTHERWISE NOTED ON PLANS.
- HAVE FABRIC WRAPS PER F.D.O.T. INDEX 280. 4. PVC STORM PIPE, 12" AND SMALLER SHALL CONFORM TO AWWA C-900, CLASS 150 STANDARDS, UNLESS OTHERWISE
- 5. ALL DRAINAGE STRUCTURE GRATES AND COVERS WITHIN TRAFFIC AREAS SHALL BE TRAFFIC RATED FOR HS-20
- 6. MATERIALS AND CONSTRUCTION METHODS FOR STREETS AND STORM DRAINAGE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LOCAL REGULATORY AGENCY. ALL STORM STRUCTURES SHALL BE GROUTED TO THE INVERT ELEVATION(S) OF THE STORM PIPES(S). STORM PIPE SHALL
- BE SAW-CUT EVEN WITH THE STRUCTURE WALL(S). GROUT AROUND PIPES FOR WATER TIGHT AND SMOOTH FINISH THE STORM DRAINAGE PIPING AND FILTRATION SYSTEM SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE OWNER'S SOILS ENGINEER PRIOR TO THE PLACEMENT OF BACKFILL.
- THE CONTRACTOR SHALL MAINTAIN THE STORM DRAINAGE SYSTEMS UNTIL FINAL ACCEPTANCE OF THE PROJECT 10. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE APPLICABLE TESTING. WITH THE SOILS ENGINEER. TESTS. WILL BE REQUIRED PURSUANT WITH THE TESTING SCHEDULE FOUND IN THE ENGINEERING CONSTRUCTION DRAWINGS. UPON COMPLETION OF THE WORK, THE SOILS ENGINEER MUST SUBMIT CERTIFICATIONS TO THE OWNER'S ENGINEER STATING THAT ALL REQUIREMENTS HAVE BEEN MET.

STORM WATER AND DRAINAGE SYSTEM CRITERIA

- RETENTION PONDS MUST BE ROUGH GRADED EARLY ON IN PHASE CONSTRUCTION WITH STORM PIPES DIRECTED TO IT. PROPOSED BERMS MUST BE PROPERLY CONSTRUCTED AND COMPACTED TO PROPERLY RETAIN STORM WATER IMPACTS. CONTROL STRUCTURE(S) MUST BE CONSTRUCTED WITH THEIR GREASE SKIMMER IN ACCORDANCE WITH THE PLANS AND PECIFICATIONS WHEN RETENTION POND IS ROUGH GRADED. CONTRACTOR SHALL NOT CONSTRUCT UNDERDRAIN AT
- THIS STAGE PLUG UNDERDRAIN OPENING TEMPORARILY UNTIL FINAL PHASE. 4. ALL STORM STRUCTURES AND STORM PIPES MUST MEET SPECIFICATIONS AND CONSTRUCTION AS DETERMINED BY F.D.O.T. REFER TO DETAILS AND INDEXES SPECIFIED ON THESE PLANS.

PAVING NOTES

- PRIOR TO CONSTRUCTING CONCRETE PAVEMENT, THE CONTRACTOR IS TO SUBMIT A PROPOSED JOINTING PATTERN TO THE OWNER'S ENGINEER FOR APPROVAL
- 2. THE CONTRACTOR IS TO PROVIDE A 1/2" BITUMINOUS EXPANSION JOINT MATERIAL WITH SEALER, AT ABUTMENT OF CONCRETE AND ANY STRUCTURE. ALL PAVEMENT MARKINGS SHALL BE MADE WITH TRAFFIC PAINT IN ACCORDANCE TO FDOT STANDARD SPECIFICATIONS 971-12. PARKING STALL STRIPING TO BE 4" WIDE PAINTED WHITE STRIPES.
- THE CONTRACTOR IS TO INSTALL EXTRA BASE MATERIAL WHEN THE DISTANCE BETWEEN THE PAVEMENT ELEVATION AND THE TOP OF THE PIPE OR BELL IS LESS. THAN TWELVE (12) INCHES STANDARD INDEXES REFER TO THE LATEST EDITION OF FDOT "ROADWAY AND TRAFFIC DESIGN STANDARDS." THE CONSTRUCTION OF PAVEMENT WITHIN THE PROPERTY MUST MEET THE FOLLOWING CRITERIA:
- A. THE SURFACE COURSE SHOULD CONSIST OF FDOT SP-9.5 FINE MIX FOR LIGHT-DUTY AND FDOT SP-12.5 AND/OR SP-9.5 FINE MIX FOR HEAVY DUTY AREAS. THE ASPHALTIC CONCRETE SHOULD BE COMPACTED TO AN AVERAGE FIELD DENSITY OF 93 PERCENT OF THE LABORATORY MAXIMUM DENSITY DETERMINED FROM SPECIFIC GRAVITY (GMM) METHODS, WITH AN INDIVIDUAL TEST TOLERANCE OF
- ±2 PERCENT. WE RECOMMEND USING EITHER LIMEROCK OR A CRUSHED CONCRETE BASE COURSE MATERIAL. CRUSHED CONCRETE GENERALLY PROVIDES A COST-EFFECTIVE ALTERNATIVE MATERIAL IN LIEU OF LIMEROCK AND IS PARTICULARLY RESISTANT TO ADVERSE EFFECTS FROM HIGH GROUNDWATER CONDITIONS. IF LIMEROCK BASE MATERIAL IS TO BE USED, ADEQUATE SEPARATION BETWEEN GROUNDWATER AND THE BASE MUST BE MAINTAINED (SEE SECTION 4.4.7). LIMEROCK IS HIGHLY MOISTURE SENSITIVE AND BECOMES UNSTABLE WHEN IT BECOMES EXCESSIVELY WET. THEREFORE, IF THE GUIDELINES DISCUSSED IN SECTION 4.4.7 CANNO BE MET, THE USE OF LIMEROCK BASE ON THIS PROJECT IS NOT RECOMMENDED. WITH EITHER OPTION, AT LEAST 12 INCHES OF FREE-DRAINING SUBGRADE MUST EXIST BELOW THE BASE COURSE TO PREVENT
- C. THE BASE UTILIZED SHOULD HAVE A MINIMUM LBR OF 100, AND SHOULD MEET CURRENT FDOT REQUIREMENTS FOR GRADED AGGREGATE BASE. PLACE THE BASE IN MAXIMUM 6-INCH LIFTS AND COMPACT EACH LIFT TO A MINIMUM DENSITY OF 98% MPMDD. BASE LAYERS SHALL BE AS FOLLOWING:

CERTIFIED CRUSHED CONCRETE PER FDOT SPECS. - CERTIFIED LIMEROCK AS PER FDOT SPECS CERTIFIED SHELL AS PER FDOT SPECS.

7. CONSTRUCTION OF CONCRETE PAVEMENT MUST MEET THE FOLLOWING CRITERIA: 7.1 VEHICULAR USE AREA: 5" THICK (LIGHT DUTY) AND 6" THICK (HEAVY DUTY), 4000 PSI CONCRETE OVER COMPACTED GROUND TO 98% OF MAX. DENSITY

7.2 SIDEWALK: 4" THICK, 3000 PSI CONCRETE OVER COMPACTED GROUND TO 95% OF MAX. DENSITY.

- RIGHT OF WAY NOTES (PRIVATE) ALL R.O.W. INSTALLATIONS WILL BE IN ACCORDANCE WITH PRACTICES REFERENCED IN THE STATE OF FLORIDA UTILITIES ACCOMMODATIONS MANUAL
- 2. ALL DESIGN AND CONSTRUCTION MUST CONFORM TO THE MINIMUM STANDARDS SET DOWN IN PASCO COUNTY LAND DEVELOPMENT, ZONING AND/OR RELATED ORDINANCES, AND MINIMUM TESTING FREQUENCY REQUIREMENTS. SIGNS AND BARRICADES SHALL BE IN ACCORDANCE WITH THE US DEPARTMENT OF TRANSPORTATION'S "MANUAL ON <u>UNIFORM TRAFFIC CONTROL DEVICES"</u> AND THE FLORIDA DEPARTMENT OF TRANSPORTATION'S <u>"DESIGN STANDA</u>
- 4. INSTALLATION INVOLVING CONCRETE AND ASPHALT DRIVEWAY, IN GOOD
- CONDITION MUST BE ACCOMPLISHED BY JACK AND BORE OR PUSHING. NO JETTING IS ALLOWED. COMPACTION FOR PIPE BACKFILL SHALL COMPLY WITH AASHTO T-99(100%). DISTURBED AREA WITHIN THE R.O.W. WILL BE COMPACTED TO 100% OF MAXIMUM DENSITY AND SODDED.
- ANY PORTION OF THE ROADWAY THAT SUSTAINS EXCESSIVE CONSTRUCTION RELATED DAMAGE, IN THE OPINION OF ENGINEER, SHALL BE REPAIRED AT CONTRACTOR EXPENSE SAFE PEDESTRIAN TRAFFIC IS TO BE MAINTAINED AT ALL TIMES.
- 9. NO STOCKING OF MATERIAL IN ROADWAY OR ON SIDEWALK; ALL DIRT OR DEBRIS. WILL BE REMOVED FROM THE JOB SITE. DAILY. ROADS AND SIDEWALKS ARE TO BE SWEPT DAILY AS PART OF DAILY CLEAN-UP. 10. SAW CUT EXISTING EDGE-OF-PAVEMENT PRIOR TO CONSTRUCTION. . PROVIDE A MINIMUM OF 3' COVER OVER UTILITIES AT ALL DITCH CROSSINGS
- 11. NO STREET SHALL BE CLOSED WITHOUT THE WRITTEN PERMISSION OF THE PASCO COUNTY TRAFFIC DIVISION. AT LEAST 48 HOUR ADVANCE COORDINATION IS REQUIRED 13. DRIVEWAY TO BE CONSTRUCTED TO FDOT INDEX 515 (REV.).

14. EROSION CONTROL AND SHOULDER SODDING SHALL CONFORM TO FDOT INDEX #104.

- TRENCH EXCAVATION SAFETY REQUIREMENTS 1. INCLUDE OSHA STANDARD 29 CFR, SECTION 1926.650 SUBPART P, WHICH IS NOW A PART OF LAWS OF FLORIDA CHAPTER
- THE CONTRACTOR SHALL PROVIDE WRITTEN ASSURANCE OF COMPLIANCE WITH THIS LAW.

OCCUR DUE TO HIS WORK WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR

- 3. A SEPARATE COST ITEM IDENTIFYING THE COST OF COMPLIANCE. A TRENCH SAFETY SYSTEM SHALL BE DESIGNED BY THE CONTRACTOR, AND APPROVED BY THE ENGINEER. ALL RETENTION AREAS, STORM SEWER PIPING, STORM SEWER STRUCTURES, ETC. MUST BE IN PLACE AS PART OF THE FIRST PHASE OF CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ACCOMMODATE POSITIVE DRAINAGE THROUGHOUT CONSTRUCTION TO AVOID FLOODING OF THE ADJACENT PROPERTIES. ANY FLOODING THAT MAY
- THE USE OF ELECTRONICALLY STORED DATA IS INTENDED FOR INFORMATIONAL PURPOSES ONLY AND NOT TO BE USED FOR CONSTRUCTION. CONTRACTOR MUST UTILIZE SIGNED AND SEALED DOCUMENTS FOR CONSTRUCTION.

TREE BARRICADES AND EROSION CONTROL MEASURES MUST REMAIN INTACT THROUGHOUT CONSTRUCTION.

NOTE TO CONTRACTOR

THE CONTRACTOR SHALL PROVIDE CERTIFIED RECORD DRAWINGS, SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR. THE RECORD DRAWINGS SHALL SHOW FINAL GRADES FOR INLETS & PIPES WITH TOP & BOTTOM ELEVATIONS, INVERTS, & LOCATIONS OF ALL UTILITIES INCLUDING THE SANITARY SEWER AND WATER PIPING. THE CONTRACTOR SHALL PROVIDE TWO COPIES OF THE CERTIFIED RECORD DRAWINGS TO THE ENGINEER. THE AFOREMENTIONED RECORD DRAWINGS SHALL BE SUFFICIENT ENOUGH IN DETAIL TO BE ACCEPTABLE BY AGENCIES HAVING JURISDICTION.

ENCROACHMENT INTO OR FAILURE TO MAINTAIN THESE BARRICADES WILL RESULT IN ENFORCEMENT ACTION WHICH MAY

INCLUDE CITATIONS AND/OR PERMIT REVOCATION. 3. PROVIDE A SUITABLE ON-SITE WASH DOWN & CREATE A DISPOSAL AREA. DISPOSAL OF OF CONCRETE SLURRY DIRECTLY OF INDIRECTLY INTO PUBLIC DRAINAGE SYSTEMS IS A VIOLATION OF THE ILLICIT DISCHARGE "PROVISION OF THE PASCO COUNTY LAND DEVELOPMENT CODE." SEC. 58-239 OF THE PASCO COUNTY AUTHORIZES PENALTY OF

UP TO \$10,000,00 FOR EACH OFFENSE. PRIOR TO DEMOLITION, CONSTRUCTION SHALL ADDRESS THE

- FOLLOWING REQUIREMENTS: VIDEO RECORD SITE AND OFF-SITE IMPROVEMENTS AND MAKE NOTE OF CRACKS AND DAMAGES TO EX. SIDEWALKS,
- ROADWAYS, TREES, ETC. AND KEEP ON FILE FOR RECORD. ALL PROPERTY CORNER MONUMENTS SHALL BE IDENTIFIED AND PROTECTED DURING CONSTRUCTION. SILT SCREEN SHALL BE ERECTED AND MAINTAINED AT ALL TIMES DURING CONSTRUCTION. SILT SCREEN SHALL BE
- REMOVED ONLY AFTER PROJECT IS FULLY CONSTRUCTED AND SOIL IS STABILIZED. 4 CONTRACTOR IS SOLELY RESPONSIBLE FOR EXISTING AND PROPOSED DRAINAGE PATTERN, DRAINAGE SHALL NOT BE DIRECTED TO ADJOINING NEIGHBORS' PROPERTIES AND DRAINAGE FROM OFF-SITE SHALL NOT BE BLOCKED. 5. DEMOLITION OF EXISTING BLDGS. MAYBE SUBJECT TO LOCAL, STATE AND FEDERAL PERMITS. PRIOR TO DEMOLITION,
- CONTRACTOR SHALL OBTAIN AN ASBESTOS REMOVAL PERMIT IF NEEDED. ALL ASPH PAVING SHALL BE SAW CUT WITH A SMOOTH EDGE TO ACCEPT NEW CONCRETE CURBING ALL SIDEWALKS SHALL BE REMOVED AT THE NEAREST JOINT, WHERE WALKS ARE SHOWN TO BE REMOVED.
- 8. ALL POTABLE AND RECLAIMED WATER LINES AT RIGHT OF WAYS SHALL BE SEVERED AND CAPPED PER CODE. THRUST BLOCKS OR RESTRAINING RODS MAYBE REQUIRED ALL GRAVITY SANITARY SEWER LINE SHALL BE SEVERED AND CAPPED AT THE RIGHT OF WAYS PER CODE.
- 0. ALL WATER METERS SHALL BE REMOVED AND RETURNED TO THE WATER DEPT. FOR CREDIT . ALL EXISTING PALMS TREES AND GRATES IN THE RIGHT OF WAY SHALL BE RETURNED TO THE CITY. ALL PARKING METERS SHALL BE REMOVED AND RETURNED TO THE CITY. 13. ALL PAVEMENT STRIPING SHALL BE REMOVED IN CONFLICT WITH PAVEMENT IMPROVEMENT, AND RE-STRIPED PER PLANS.

PASCO COUNTY DEVELOPMENT REVIEW - STANDARD SITE PLAN NOTES

1. ALL UTILITY CONSTRUCTION SHALL COMPLY WITH THE PASCO COUNTY STANDARDS FOR DESIGN AND CONSTRUCTION OF WATER AND WASTEWATER FACILITIES SPECIFICATIONS, LATEST EDITION. 2. ALL ON-SITE WATER AND SEWER FACILITIES SHALL BE OWNED AND MAINTAINED

BY THE OWNER-DEVELOPER.

THE FIRE MARSHAL AND THE ISSUANCE OF A SEPARATE BUILDING PERMIT APPROVAL OF THE SITE PLAN DOES NOT CONSTITUTE APPROVAL OF THE 4. ALL PROPOSED SIGNS MUST BE APPLIED FOR, APPROVED, AND PERMITTED ON AN INDIVIDUAL BASIS APART FROM ANY ULTIMATELY APPROVED SITE PLAN

3. INSTALLATION OF FUEL STORAGE TANKS REQUIRES REVIEW AND APPROVAL BY

5. HANDICAP PARKING SPACES WILL BE PROPERLY SIGNED AND STRIPED IN ACCORDANCE WITH FLORIDA STATUTE 316, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, OR OTHER APPLICABLE STANDARDS. 6. THE ARCHITECT/ENGINEER CERTIFIES THAT THE SITE HAS BEEN DESIGNED IN

7. ALL ON-SITE PARKING SPACES WILL BE STRIPED AND SIGNED IN ACCORDANCE

APPROVAL OF THIS SITE PLAN DOES NOT CONSTITUTE APPROVAL OF ANY

ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT. ACT.

WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION. PARKING SPACES, DIRECTIONAL ARROWS, AND STOP BARS SHALL BE STRIPED IN WHITE. IT SHALL BE THE OWNER/DEVELOPER'S RESPONSIBILITY TO PROPERLY SIGN AND STRIPE IN ACCORDANCE WITH APPLICABLE STANDARDS 8. THE OWNER/DEVELOPER ACKNOWLEDGES THAT THIS APPROVAL DOES NOT INCLUDE ANY WORK IN THE COUNTY RIGHT-OF-WAY. ALL RIGHT-OF-WAY WORK SHALL BE A FUNCTION OF AN APPROVED PASCO RIGHT-OF-WAY USE PERMIT. 9. ALL CLEAR-SITE AREAS SHALL BE KEPT FREE OF ANY SIGNAGE PLANTINGS,

OR STATE RIGHT-OF-WAY WITHOUT ISSUANCE OF APPROPRIATE RIGHT-OF-WAY 1.THE OWNER/DEVELOPER ACKNOWLEDGES THAT THE SITE AND ITS SUBSEQUENT BUILDING PERMITS SHALL COMPLY WITH ALL REZONING/MPUD/PUD CONDITIONS

12.ALL STRUCTURES, INCLUDING BUFFER WALLS, RETAINING WALLS, SIGNAGE, ETC. REQUIRE BUILDING PERMITS 13.IF DURING CONSTRUCTION ACTIVITIES ANY EVIDENCE OF THE PRESENCE OF

DISCOVERED, WORK SHALL COME TO AN IMMEDIATE STOP AND PASCO COUNTY SHALL BE NOTIFIED WITHIN TWO WORKING DAYS OF THE PLANT AND/OR ANIMAL SPECIES FOUND ON THE SITE. 14.IF DURING CONSTRUCTION ACTIVITIES ANY EVIDENCE OF HISTORIC RESOURCES, INCLUDING BUT NOT LIMITED TO ABORIGINAL OR HISTORIC POTTERY

TRACTOR TRAILERS, PODS, COLLECTION BIND, OR THE LIKE ARE REQUIRED TO BE SCREENED. IF THERE IS A POSSIBILITY SUCH UNITS WILL BE USED IN THE

FUTURE, THERE MUST BE AN AREA DESIGNATED FOR THEM ON THE SITE PLAN.

SUCH UNITS CANNOT BE PLACED ON DESIGNATED PARKING SPACES. DRIVE AISLE AREAS, OPEN SPACE OR SIMILAR REQUIRED ARES, THIRTY DAYS OR LONGER USE OF STORAGE AREAS.

- DEVELOPER/OWNER SHALL TRANSFER TO PASCO COUNTY ANY AND ALL WATER USE PERMITS OR WATER USE RIGHTS THE DEVELOPER/OWNER MAY HAVE TO USE OR
- COUNTY SHALL HAVE A RIGHT OF FIRST REFUSAL TO PURCHASE SUCH WATER OR

A SEPARATE PLAN AND PERMIT, ISSUED TO A CONTRACTOR LICENSED BY THE FLORIDA STATE FIRE MARSHALL'S OFFICE, IS

- 1. IF THE SLUMPING OR SINKHOLE FORMATION BECOMES EVIDENT BEFORE OR DURING
- RESUMING CONSTRUCTION ACTIVITIES.
- 4. EXCAVATE AND BACKFILL OR GROUT, AS REQUIRED, TO FILL THE AFFECTED AREA AND PREVENT FURTHER SUBSIDENCE.
- APPROPRIATE
- TO THE SURFACE OF THE LIMEROCK OR KARST CONNECTION.

TREES, ETC. IN EXCESS OF THREE-AND-A-HALF (3-1/2) FEET IN HEIGHT.

10 NO IRRIGATION SYSTEM OR LANDSCAPING SHALL BE INSTALLED IN ANY COUNTY

STATE AND FEDERALLY PROTECTED PLANT AND/OR ANIMAL SPECIES IS

PREHISTORIC STONE TOOL, BONE OR SHELL TOOLS, HISTORIC TRASH PITS, OR HISTORIC BUILDING FOUNDATION, ARE DISCOVERED, WORK SHALL COME TO AN IMMEDIATE STOP AND THE FLORIDA DEPARTMENT OF HISTORIC RESOURCES (STATE HISTORIC PRESERVATION OFFICER) AND PASCO COUNTY SHALL BE NOTIFIED WITHIN TWO WORKING DAYS OF THE RESOURCES FOUND ON THE SITE 15.ANY STORAGE AREAS INCLUDING "TEMPORARY" STORAGE, MODULAR UNITS

COA NOTE:

IN CONSIDERATION OF PASCO COUNTY'S AGREEMENT TO PROVIDE POTABLE WATER AND/OR RECLAIMED WATER TO THE

SUBJECT PROPERTY, DEVELOPER/OWNER, AND ITS SUCCESSORS AND ASSIGNS, AGREE TO THE FOLLOWING: 1. IN THE EVENT OF PRODUCTION FAILURE OR SHORTFALL BY TAMPA BAY WATER, AS SET FORTH IN SECTION 3.19 OF THE INTER LOCAL AGREEMENT CREATING TAMPA BAY WATER,

CONSUME SURFACE OR GROUND WATER WITHIN PASCO COUNTY. 2. PRIOR TO THE DEVELOPER/OWNER SELLING WATER OR WATER USE PERMITS OR WATER USE RIGHTS, DEVELOPER/OWNER SHALL NOTIFY PASCO COUNTY, AND PASCO

WATER USE PERMITS OR WATER USE RIGHTS. FIRE NOTE:

REQUIRED FOR THE INSTALLATION OF UNDERGROUND FIRE LINES.

GEOTECHNICAL NOTES:

SHOULD ANY NOTICEABLE SOIL SLUMPING OR SINKHOLE FORMATION BECOME EVIDENT, THE APPLICANT/DEVELOPER SHALL IMMEDIATELY NOTIFY THE COUNTY, TAMPA BAY WATER, AND THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT (SWFWMD) AND ADOPT ONE (1) OR MORE OF THE FOLLOWING PROCEDURES AS DETERMINED TO BE APPROPRIATE BY THE

- CONSTRUCTION ACTIVITIES, STOP ALL WORK (EXCEPT FOR MITIGATION ACTIVITIES) IN THE AFFECTED AREA AND REMAIN STOPPED UNTIL THE COUNTY AND SWFWMD APPROVE
- 2. TAKE IMMEDIATE MEASURES TO ENSURE NO SURFACE WATER DRAINS INTO THE AFFECTED AREAS. 3. VISUALLY INSPECT THE AFFECTED AREA.
- 5. USE SOIL REINFORCEMENT MATERIALS IN THE BACKFILLING OPERATION WHEN 6. IF THE AFFECTED AREA IS IN THE VICINITY OF A WATER-RETENTION AREA, MAINTAIN
- A MINIMUM DISTANCE OF TWO (2) FEET FROM THE BOTTOM OF THE RETENTION POND 7. IF THE AFFECTED AREA IS IN THE VICINITY OF A WATER-RETENTION AREA AND THE ABOVE METHODS DO NOT STABILIZE THE COLLAPSE, RELOCATE THE RETENTION AREA.

Donald B. Fairbairn, P.E. #44971 THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED B

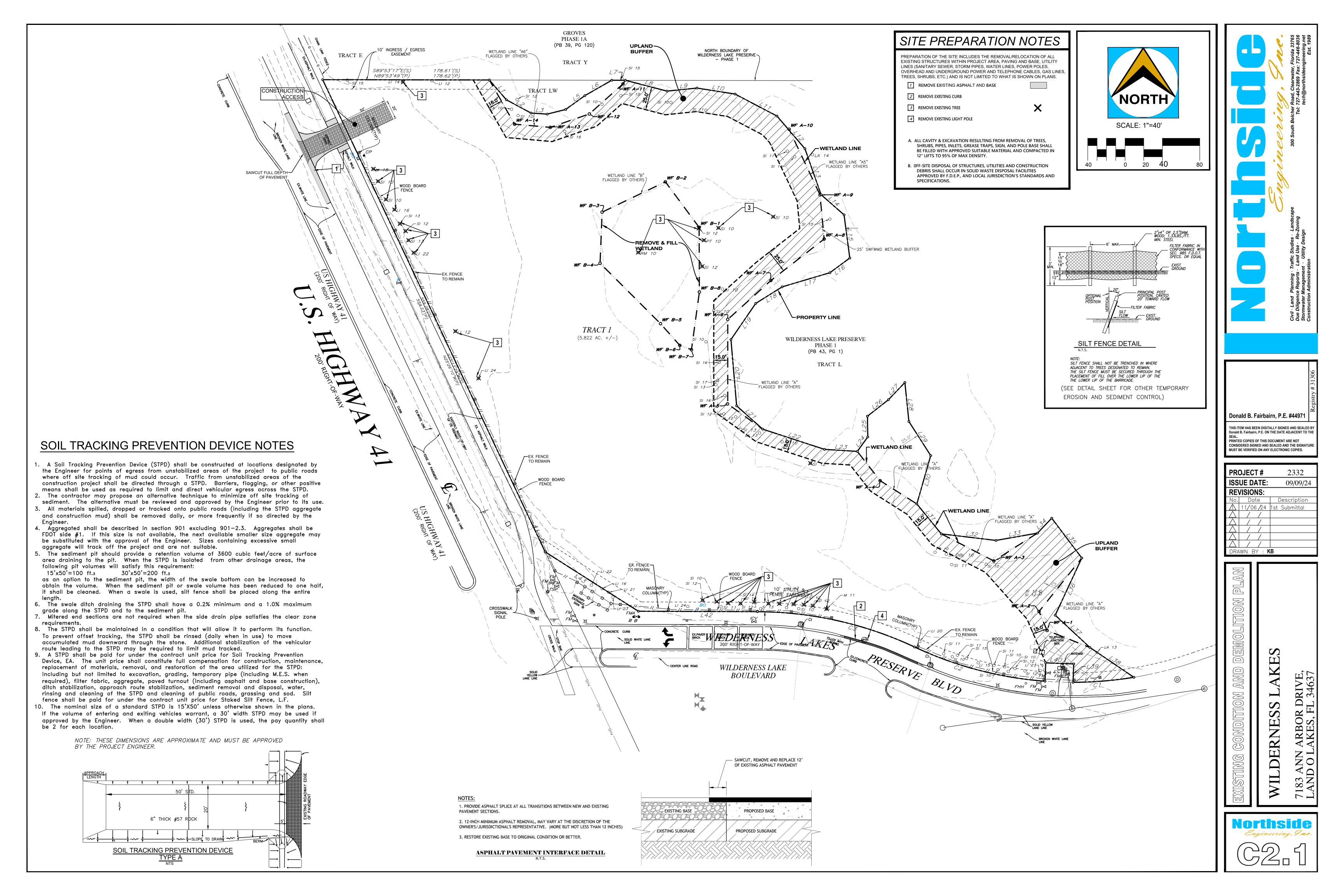
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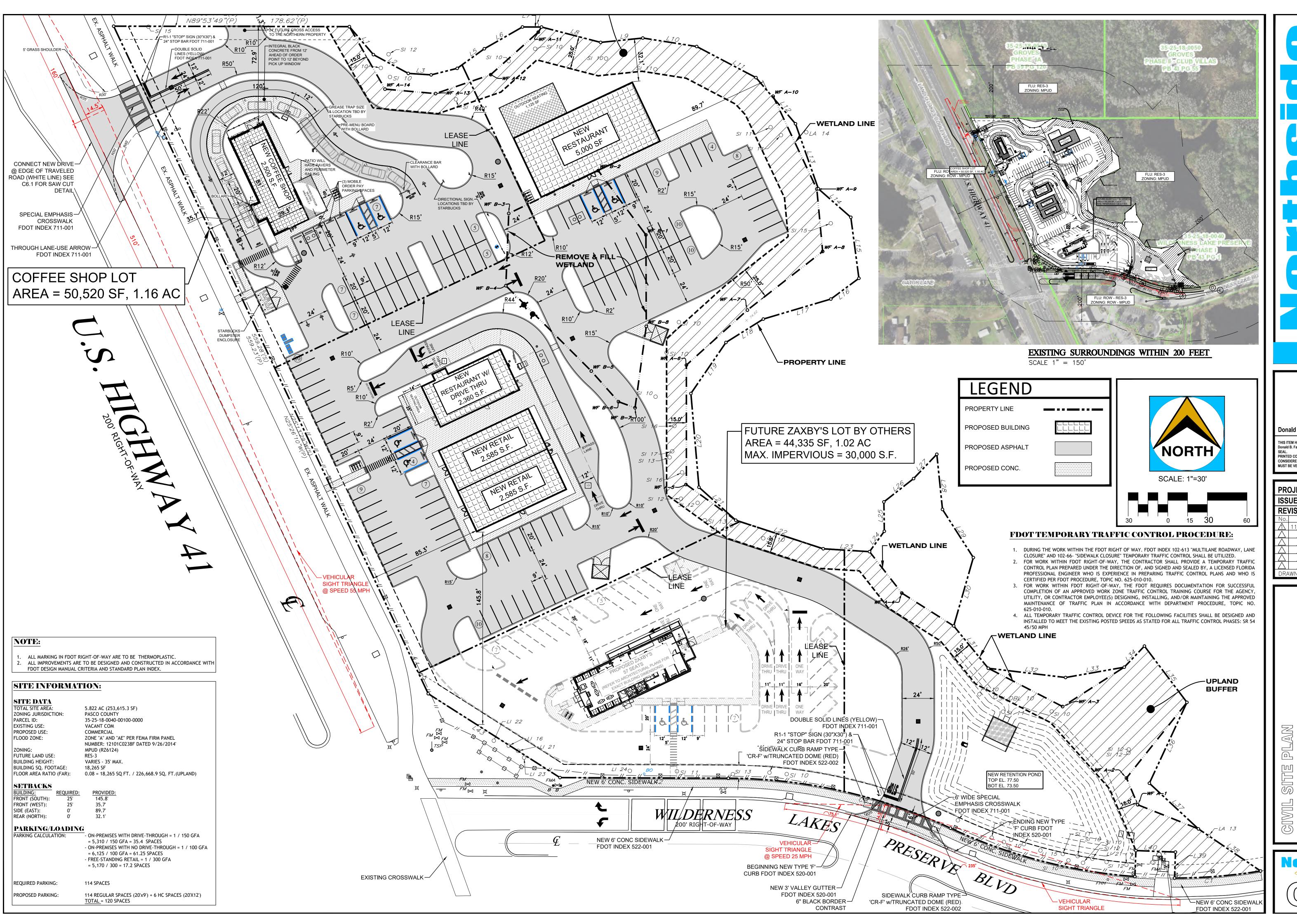
onald B. Fairbairn, P.E. ON THE DATE ADJACENT TO THE

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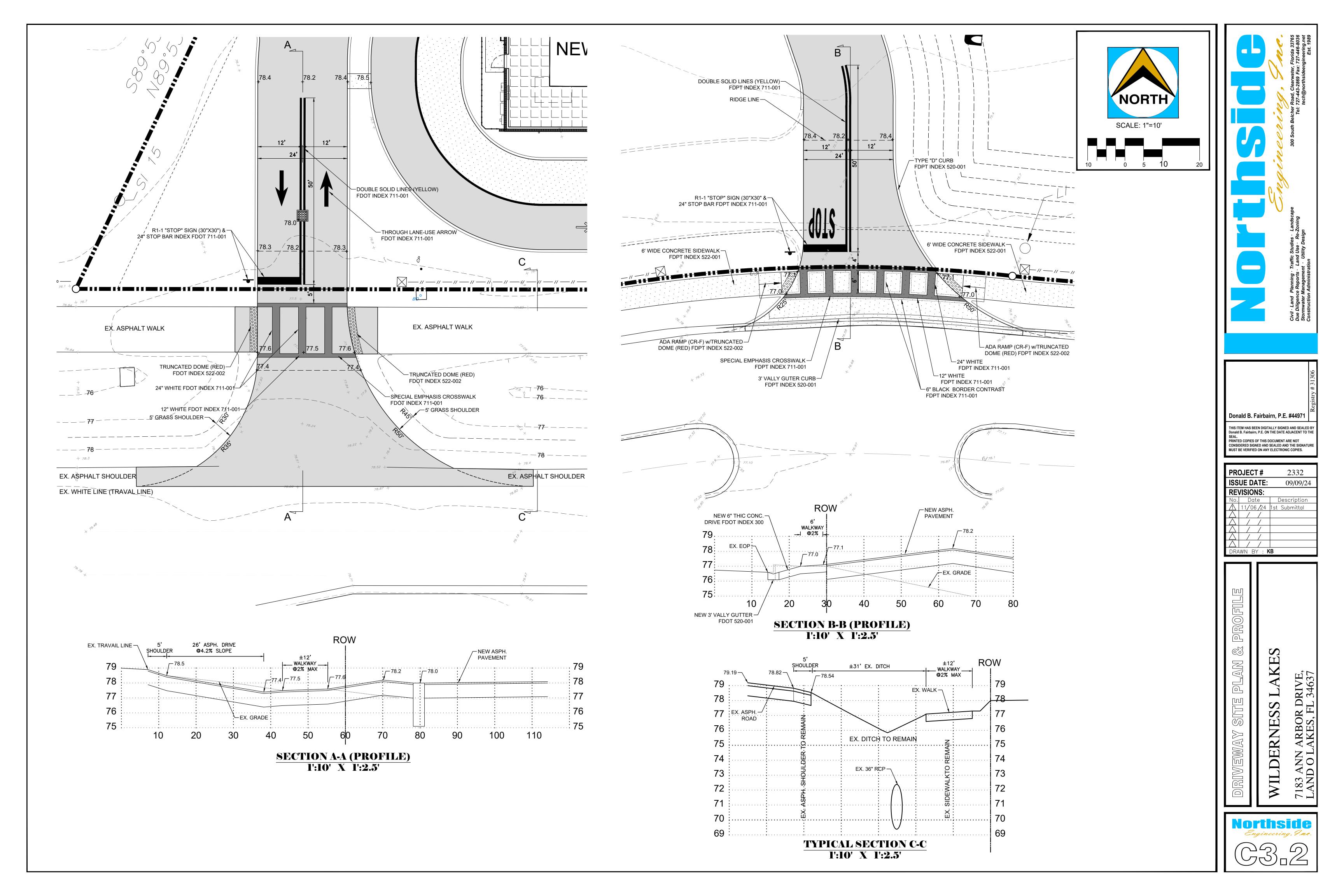


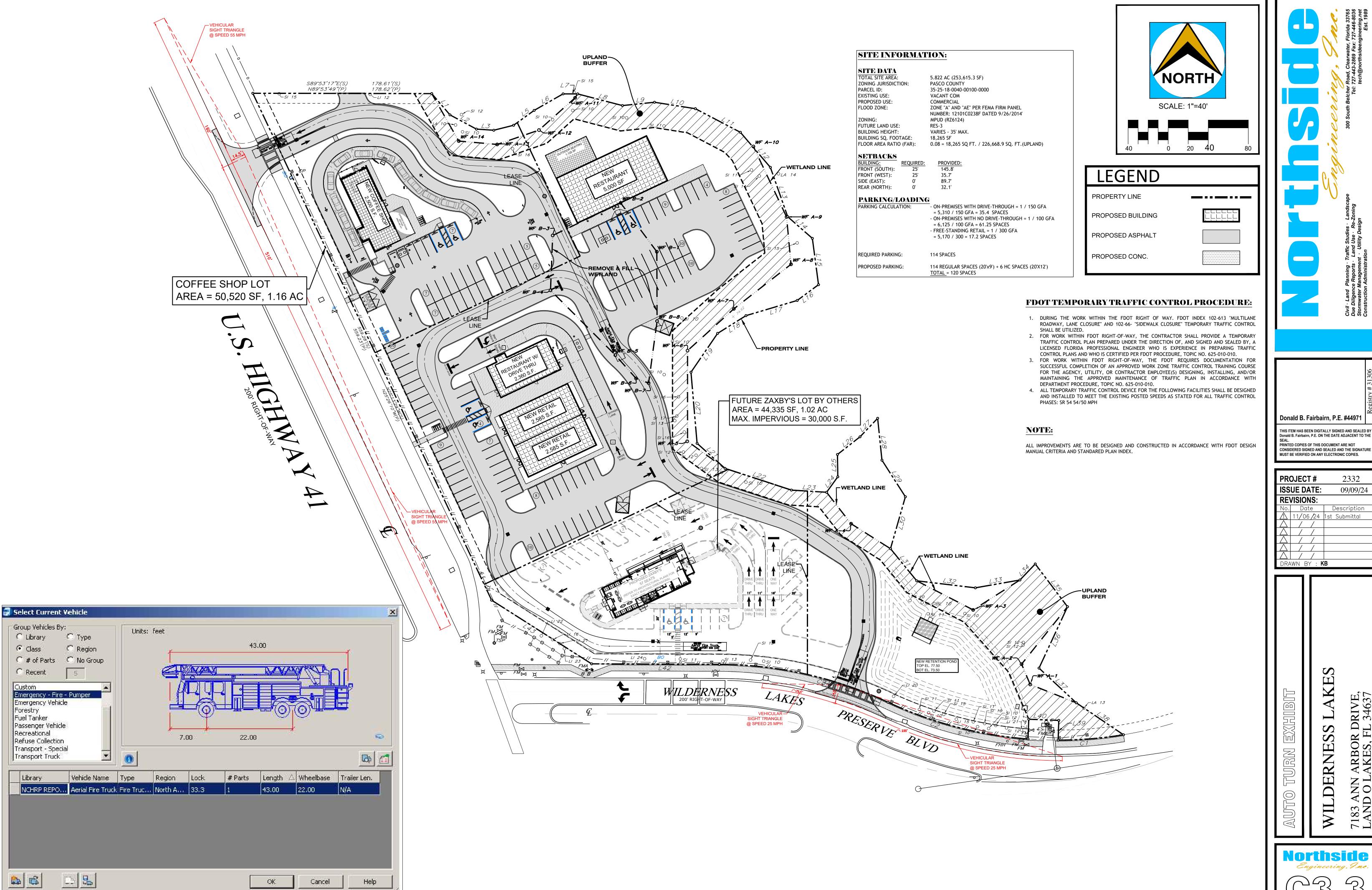
Donald B. Fairbairn, P.E. #44971 THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED B Donald B. Fairbairn, P.E. ON THE DATE ADJACENT TO THI CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES. PROJECT# **ISSUE DATE:** 09/09/24 **REVISIONS:** Date Description DRAWN BY : **KB**

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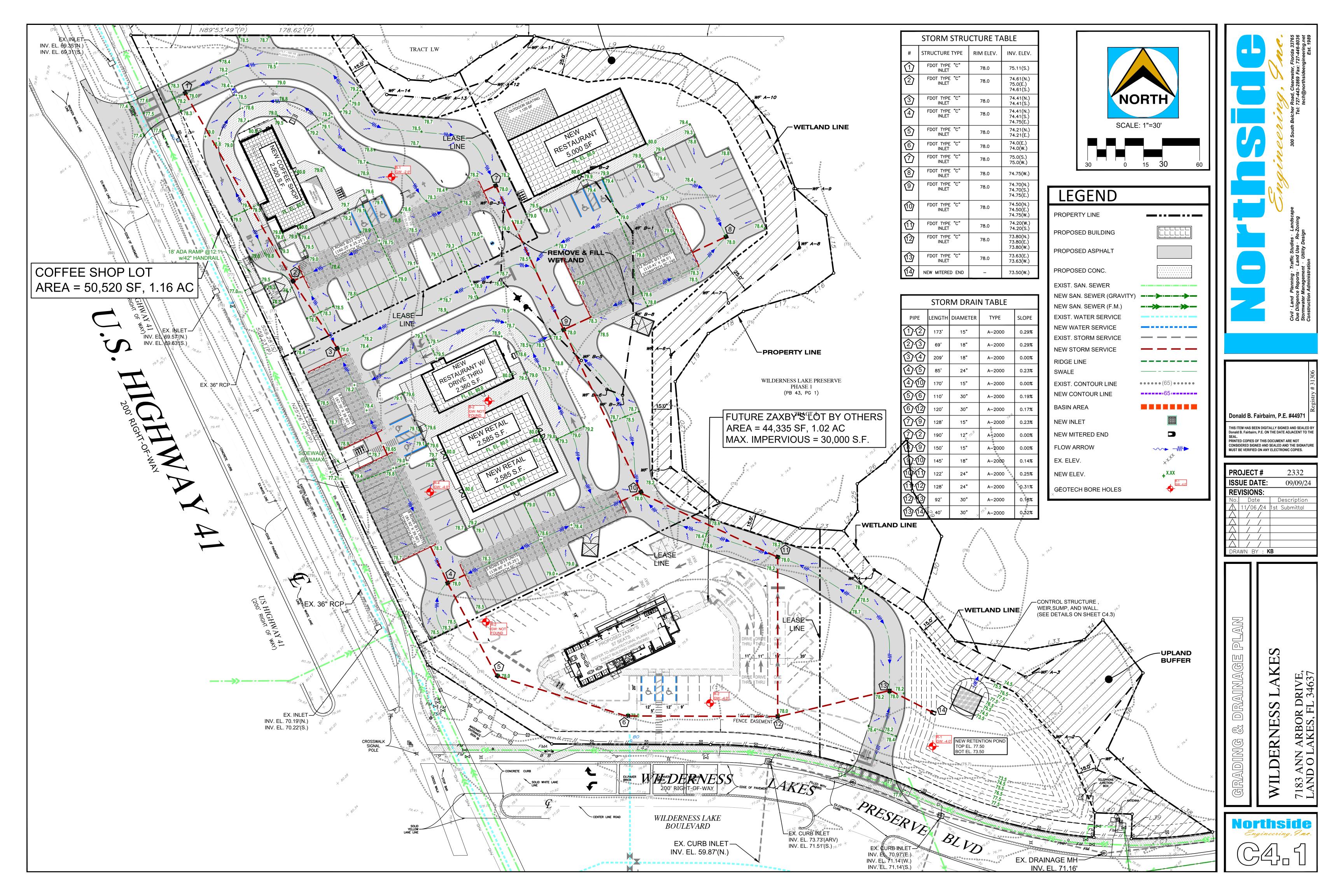
Corthside Engineering, Inc.





PROJECT# **ISSUE DATE:** 09/09/24 **REVISIONS:** lo. Date Description DRAWN BY : **KB**









SC-740 STORMTECH CHAMBER SPECIFICATIONS

CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.

CHAMBERS SHALL BE STORMTECH SC-740.

DESIGN TRUCK.

- CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS. THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LIRED BRIDGE DESIGN SPECIFICATIONS. SECTION 12.12. ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH
- CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
- . TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, • TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE
- TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 550 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
- THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE
- AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE • THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.

COVER ENTIRE ISOLATOR ROW PLUS WITH ADS

8' (2.4 m) MIN WIDE

- 12" (300 mm) MIN WIDTH

GEOSYNTHETICS 601T NON-WOVEN GEOTEXTILE

STORMTECH HIGHLY RECOMMENDS FLEXSTORM INSERTS IN ANY UPSTREAM STRUCTURES WITH OPEN GRATES

ELEVATED BYPASS MANIFOLD -

SUMP DEPTH TBD BY

SITE DESIGN ENGINEER

CONCRETE COLLAR

CONCRETE SLAB

6" (150 mm) MIN THICKNESS

STORMTECH CHAMBER -

PAVEMENT

(24" [600 mm] MIN RECOMMENDED)

9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-740 SYSTEM

- 1. STORMTECH SC-740 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- 2. STORMTECH SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780
- 3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS STORMTECH RECOMMENDS 3 BACKELL METHODS:
- STONESHOOTER LOCATED OFF THE CHAMBER BED BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE. BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- 4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- 5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- 6. MAINTAIN MINIMUM 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
- 7. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4-2" (20-50 mm).
- 8. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE
- 9. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

- 1. STORMTECH SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- 2. THE USE OF CONSTRUCTION EQUIPMENT OVER SC-740 CHAMBERS IS LIMITED:
- NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS. NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE". WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION
- 3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING. USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY

OPTIONAL INSPECTION PORT

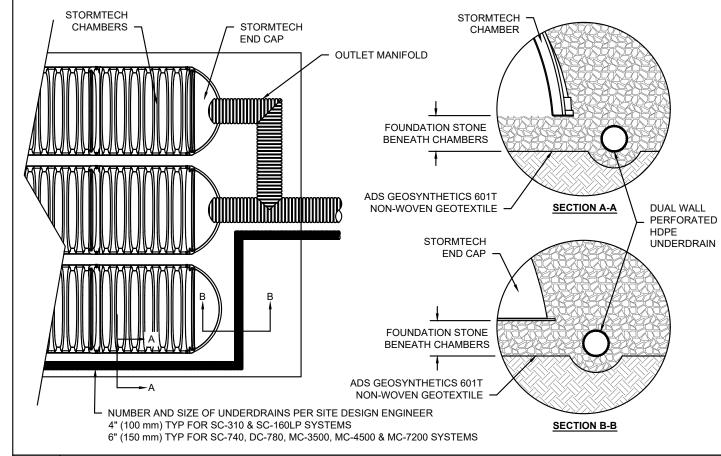
SC-740 END CAP

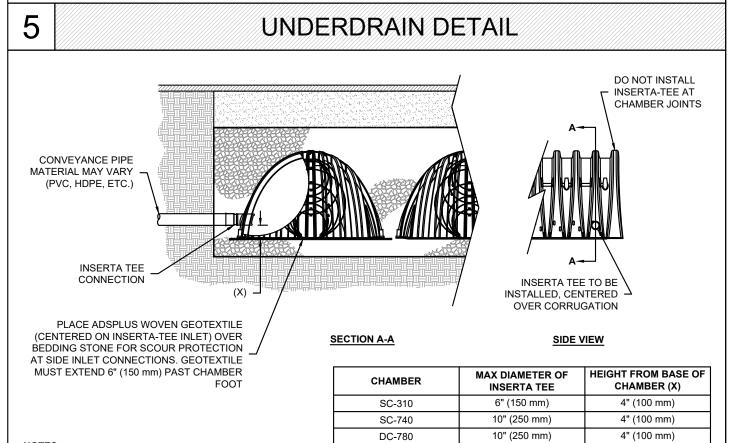
ONE LAYER OF ADSPLUS125 WOVEN GEOTEXTILE BETWEEN

5' (1.5 m) MIN WIDE CONTINUOUS FABRIC WITHOUT SEAMS

FOUNDATION STONE AND CHAMBERS

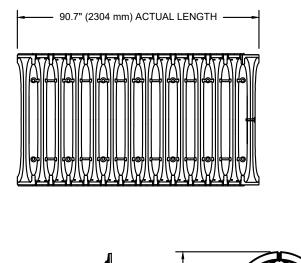
CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT

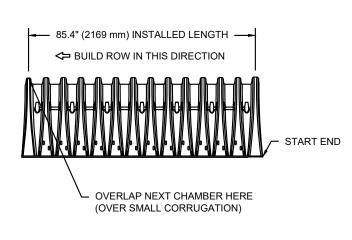


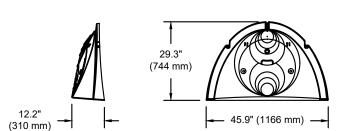


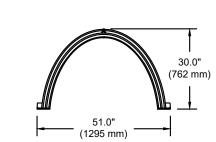
MC-3500

MC-4500









51.0" X 30.0" X 85.4" (1295 mm X 762 mm X 2169 mm) CHAMBER STORAGE 45.9 CUBIC FEET (1.30 m³) MINIMUM INSTALLED STORAGE* 74.9 CUBIC FEET (2.12 m³) 75.0 lbs.

*ASSUMES 6" (152 mm) STONE ABOVE, BELOW, AND BETWEEN CHAMBERS

PRE-FAB STUB AT BOTTOM OF END CAP WITH FLAMP END WITH "BR" PRE-FAB STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B" PRE-FAB STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"

KE-CORED END CAPS END WITH PO	<u> </u>			
PART #	STUB	Α	В	С
SC740EPE06T / SC740EPE06TPC	6" (150 mm)	10.9" (277 mm)	18.5" (470 mm)	
SC740EPE06B / SC740EPE06BPC] 0 (130 11111)			0.5" (13 mm)
SC740EPE08T /SC740EPE08TPC	8" (200 mm)	nm) 12.2" (310 mm)	16.5" (419 mm)	
SC740EPE08B / SC740EPE08BPC	0 (200 111111)			0.6" (15 mm)
SC740EPE10T / SC740EPE10TPC	10" (250 mm)	10" (250 mm) 13.4" (340 mm)	14.5" (368 mm)	
SC740EPE10B / SC740EPE10BPC	10 (230 11111)			0.7" (18 mm)
SC740EPE12T / SC740EPE12TPC	12" (300 mm)	14.7" (373 mm)	12.5" (318 mm)	
SC740EPE12B / SC740EPE12BPC	12 (300 11111)			1.2" (30 mm)
SC740EPE15T / SC740EPE15TPC	15" (375 mm)	18.4" (467 mm)	9.0" (229 mm)	
SC740EPE15B / SC740EPE15BPC	13 (3/3 11111)			1.3" (33 mm)
SC740EPE18T / SC740EPE18TPC	18" (450 mm)	19.7" (500 mm)	5.0" (127 mm)	
SC740EPE18B / SC740EPE18BPC	10 (430 11111)			1.6" (41 mm)
SC740EPE24B*	24" (600 mm)	18.5" (470 mm)		0.1" (3 mm)
SC740FPF24BR*	24" (600 mm)	18.5" (470 mm)		0.1" (3 mm)

ALL STUBS, EXCEPT FOR THE SC740EPE24B/SC740EPE24BR ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT

* FOR THE SC740EPE24B/SC740EPE24BR THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL. NOTE: ALL DIMENSIONS ARE NOMINAL

INSERTA-TEE SIDE INLET DETAIL

PART NUMBERS WILL VARY BASED ON INLET PIPE

MATERIALS. CONTACT STORMTECH FOR MORE

INLET MUST BE RAISED AS NOT ALL INVERTS ARE

CONTACT ADS ENGINEERING SERVICES IF INSERTA TEE

SC-740 TECHNICAL SPECIFICATIONS

ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

6" (150 mm)

8" (200 mm)

8" (200 mm)

12" (300 mm)

12" (300 mm)

12" (300 mm)

INSERTA TEE FITTINGS AVAILABLE FOR SDR 26, SDR 35, SCH 40 IPS

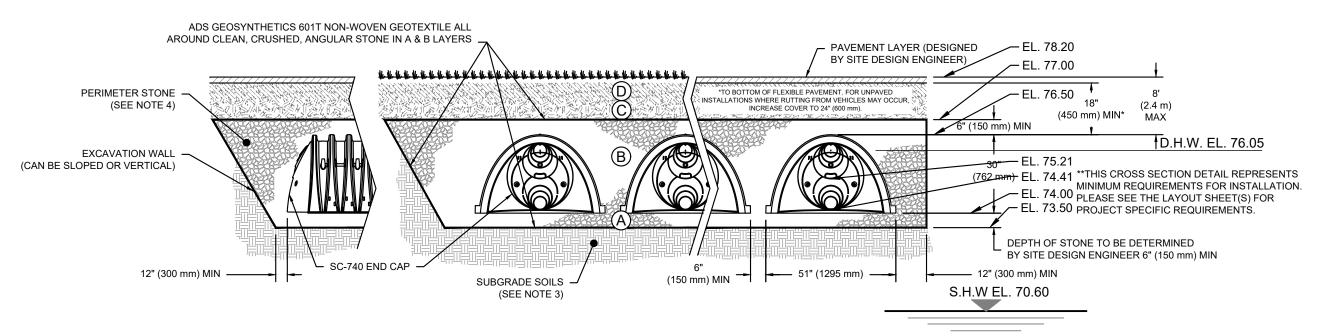
GASKETED & SOLVENT WELD, N-12, HP STORM, C-900 OR DUCTILE IRON

MATERIAL LOCATION		DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
С	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE (B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
В	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
А	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}

POSSIBLE.

- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE". STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
- COMPACTION REQUIREMENTS 4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR



- . CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS"
- 2. SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" 3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH
- CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. I. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- 5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
- TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS • TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2"
- TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 550 LBS/FT/%. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW

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Donald B. Fairbairn, P.E. #44971

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4" PVC INSPECTION PORT DETAIL (SC SERIES CHAMBER)

INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION CREST

INSPECTION & MAINTENANCE

- STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
 - A. INSPECTION PORTS (IF PRESENT) REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
 - REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
 - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL) A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3. B. ALL ISOLATOR PLUS ROWS
 - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
 - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN C. VACUUM STRUCTURE SUMP AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

SC-740 CHAMBER

SC-740 ISOLATOR ROW PLUS DETAIL

· 24" (600 mm) HDPE ACCESS PIPE REQUIRED

USE FACTORY PRE-FABRICATED END CAP

WITH FLAMP PART #: SC740EPE24BR

CONCRETE COLLAR NOT REQUIRED

" NYLOPLAST INSPECTION PORT

BODY (PART# 2708AG4IPKIT) OR

TRAFFIC RATED BOX W/SOLID

4" (100 mm) INSERTA TEE

TO BE CENTERED ON

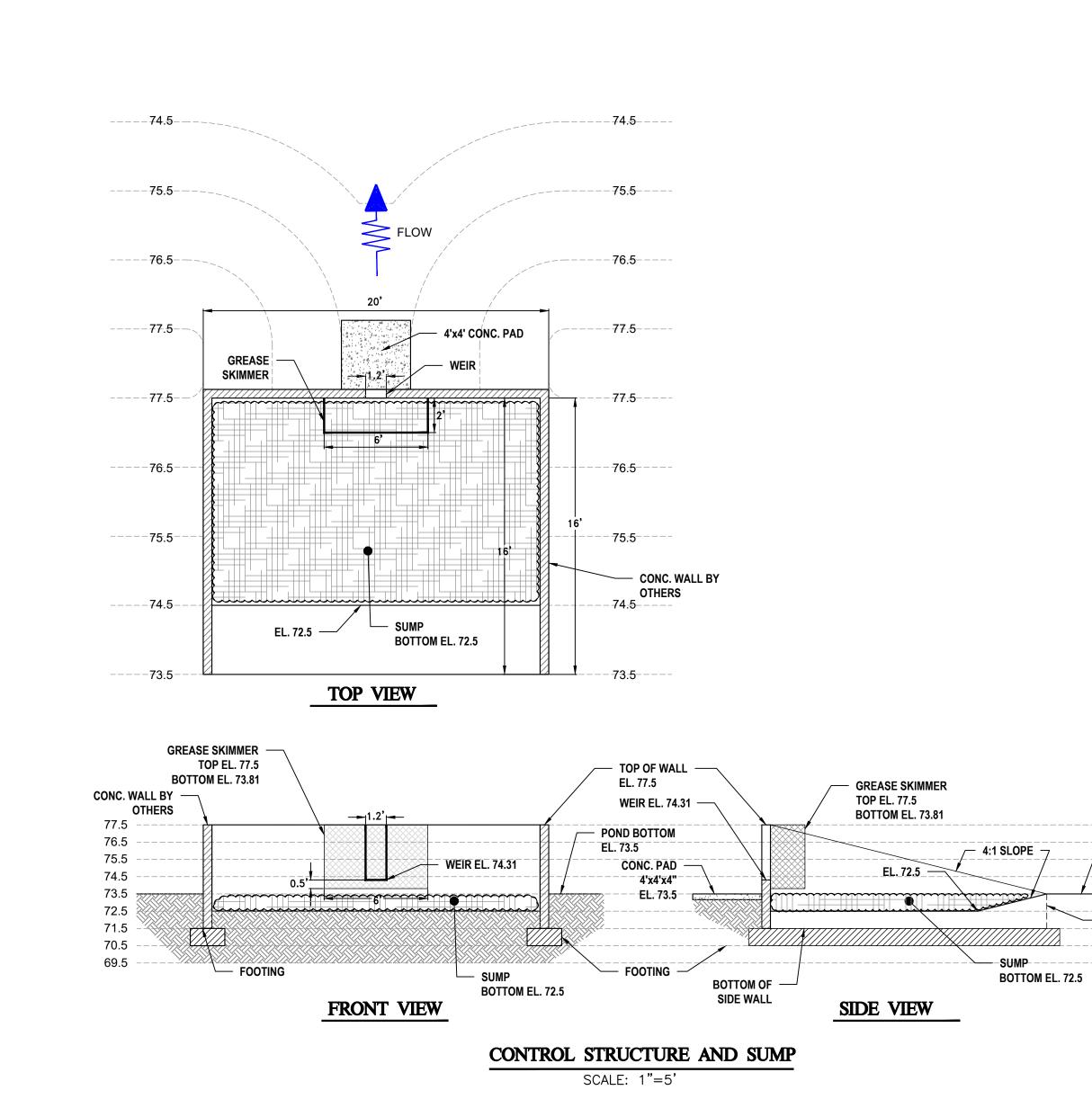
CORRUGATION CREST

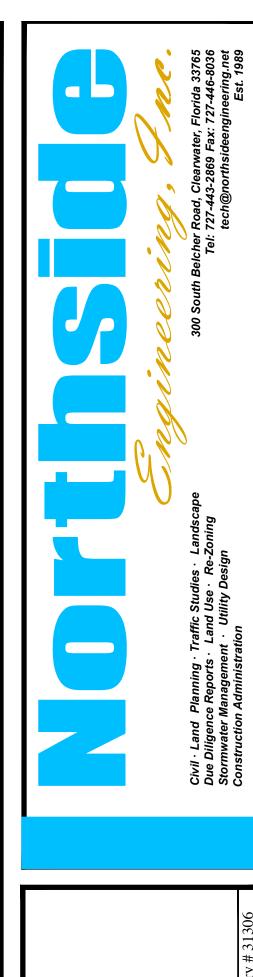
FOR UNPAVED APPLICATIONS

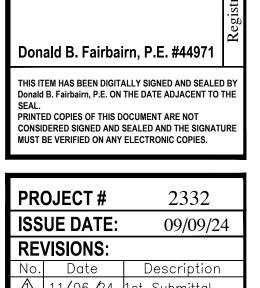
LOCKING COVER

- 1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
- 2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY

SC-740 CROSS SECTION DETAIL







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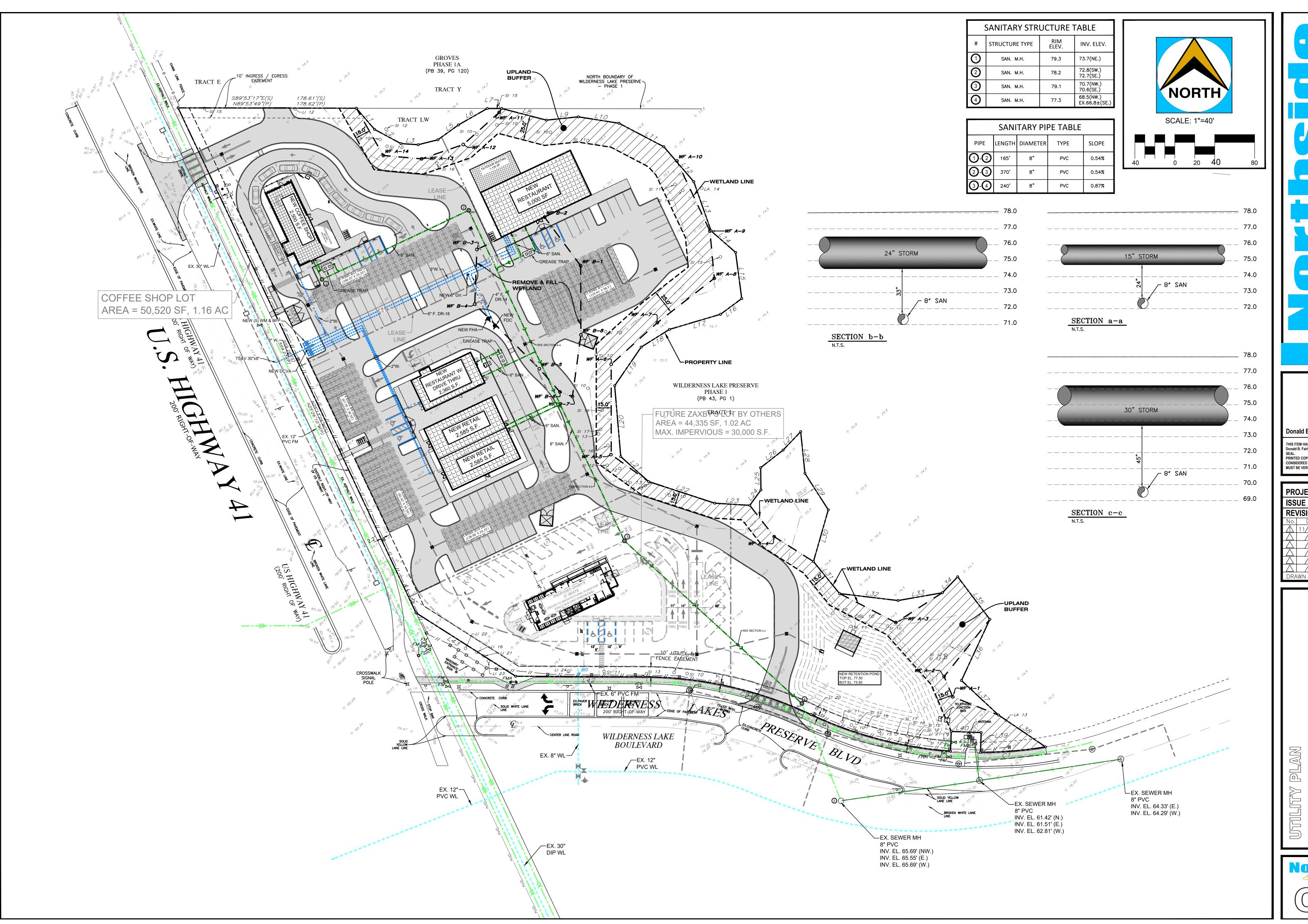
AKES WILDERNESS

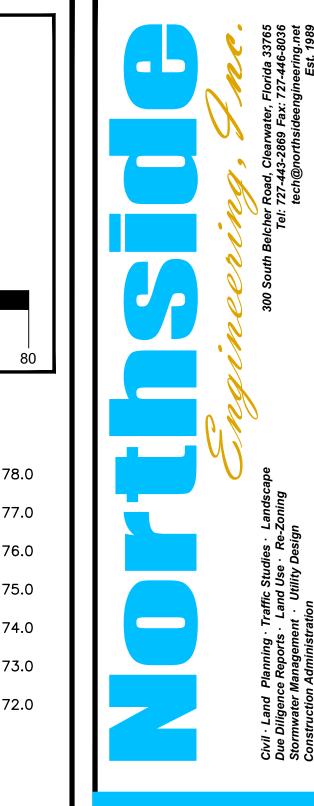
POND BOTTOM

EL. 73.5

- SIDE WALL

Northside Engineering, Inc.





Donald B. Fairbairn, P.E. #44971 THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY onald B. Fairbairn, P.E. ON THE DATE ADJACENT TO THE ONSIDERED SIGNED AND SEALED AND THE SIGNATURE

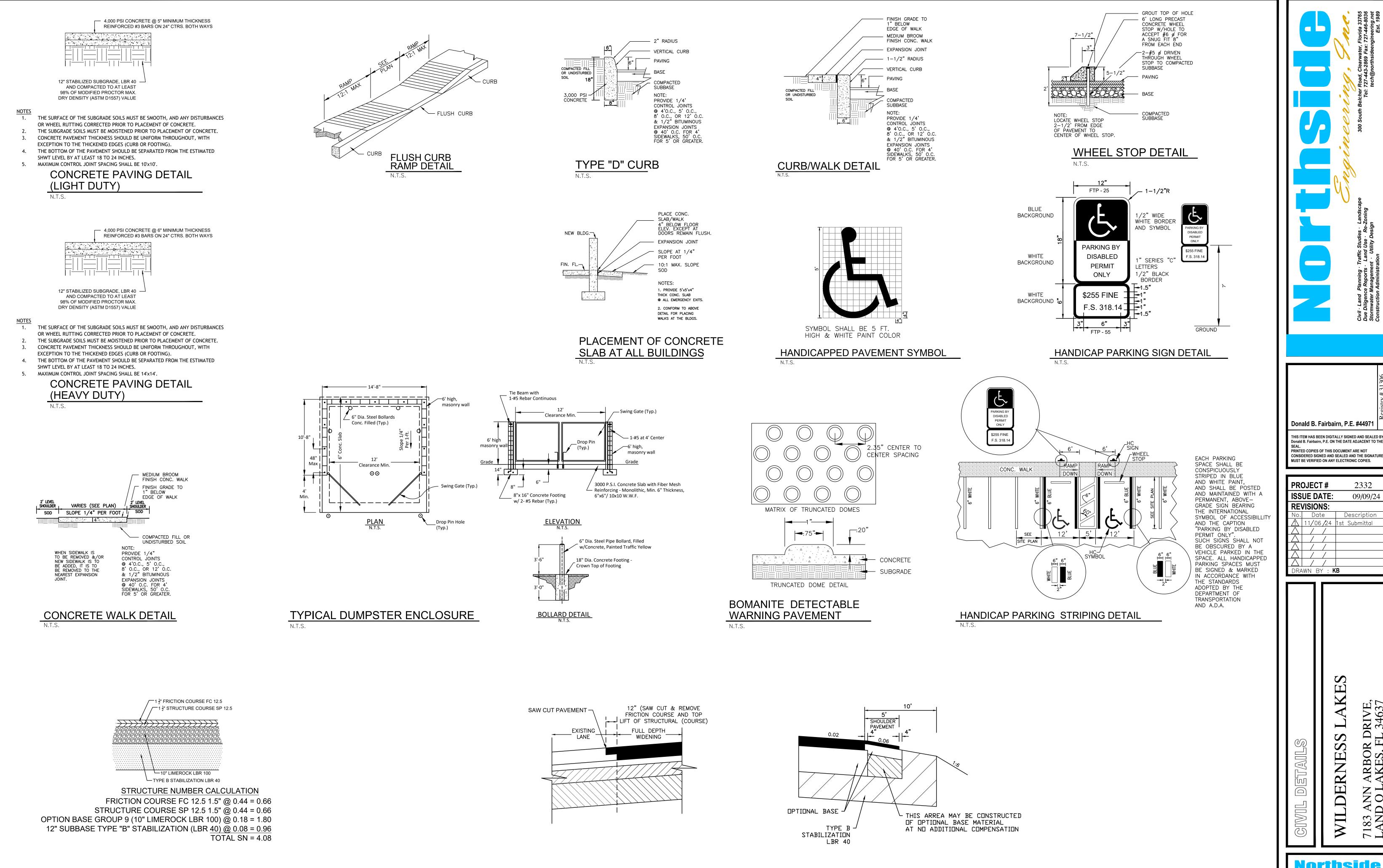
PROJECT# 2332 **ISSUE DATE:** 09/09/24 No. Date Description

11/06/24 1st Submittal DRAWN BY : **KB**

REVISIONS:

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SAW CUT DETAIL

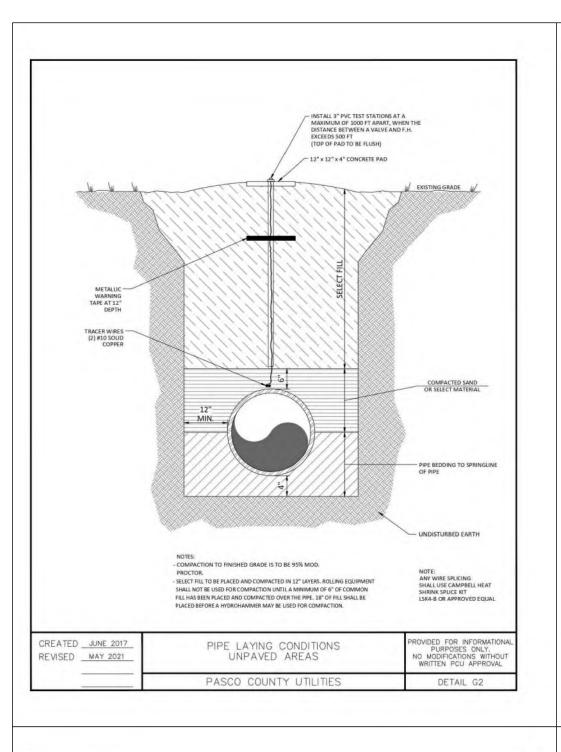
SHOULAER PAVEMENT DETAIL

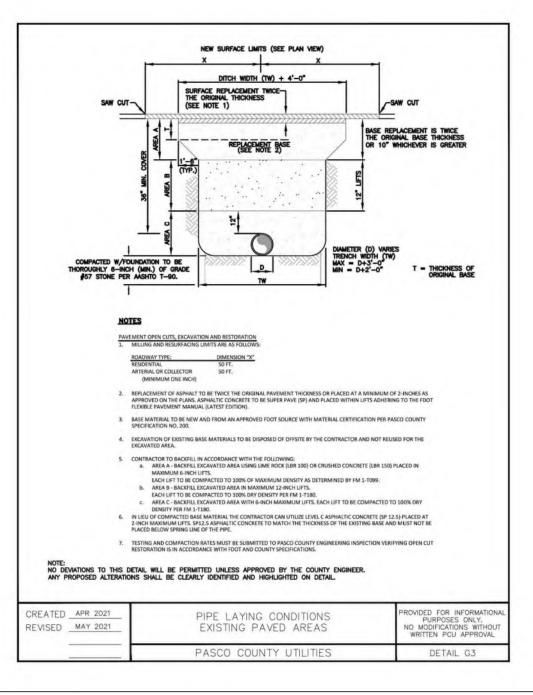
PAVEMENT DESIGN DETAIL

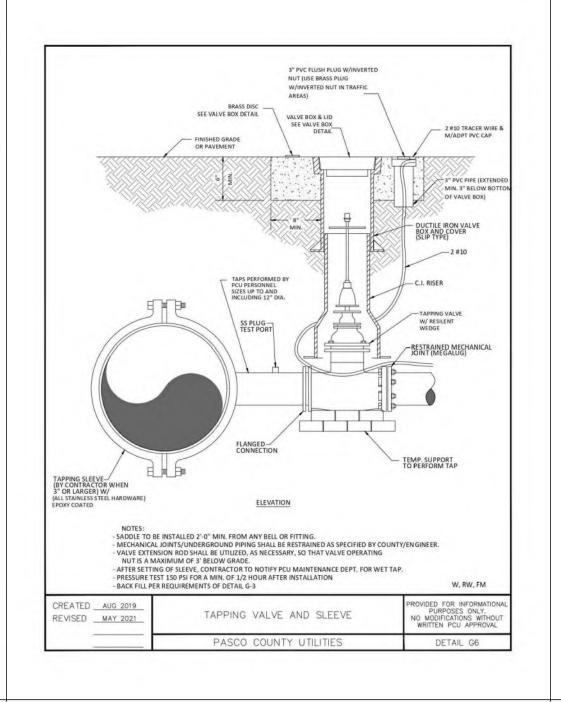
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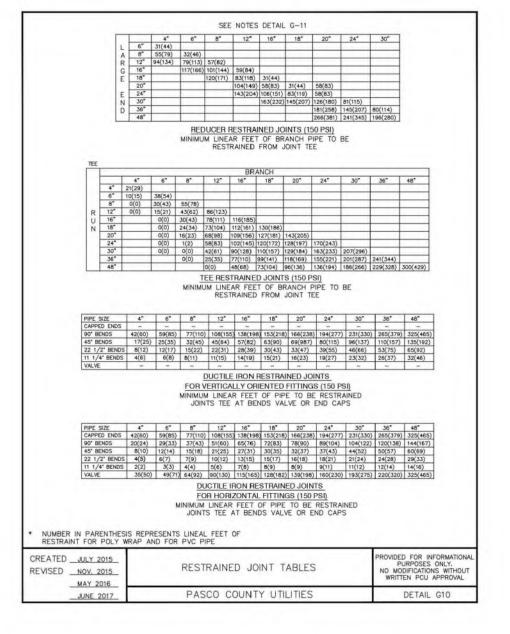
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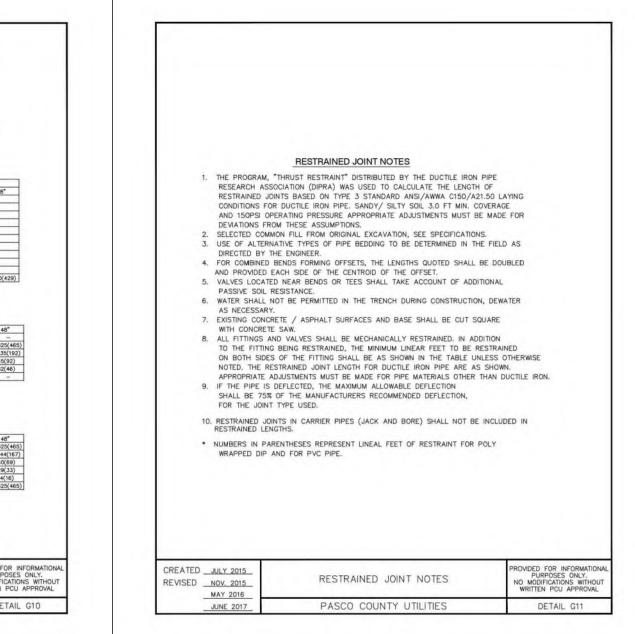
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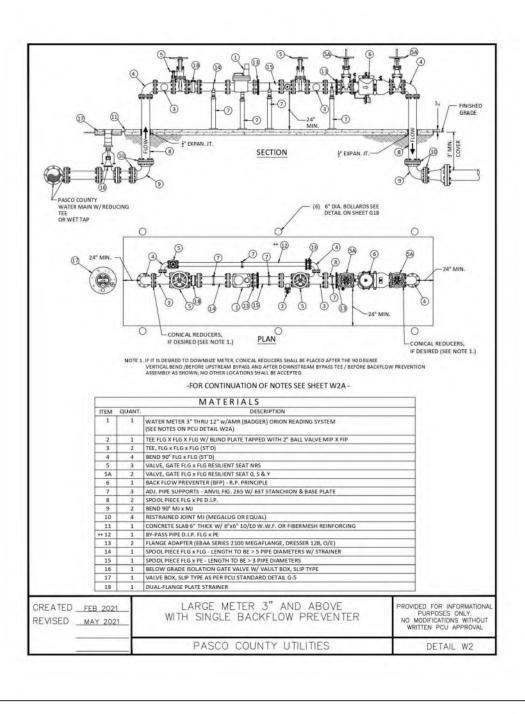


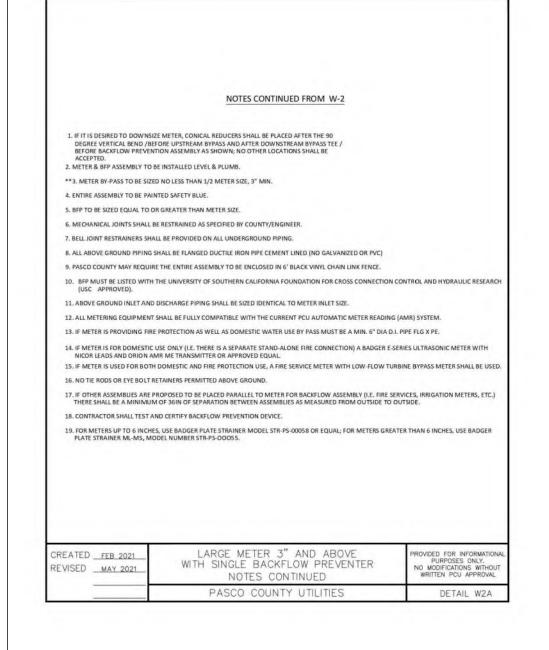


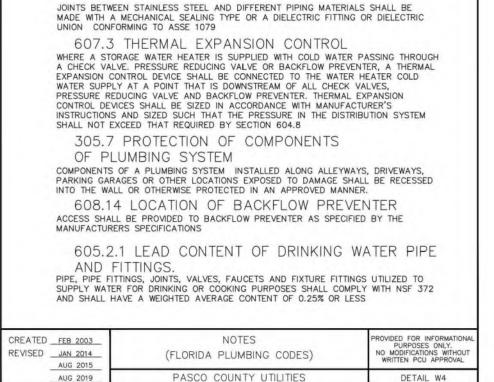












605.24 JOINTS BETWEEN DIFFERENT MATERIALS

JOINTS BETWEEN DIFFERENT MATERIAL SHALL BE MADE WITH A MECHANICAL JOINT OF COMPRESSION OR MECHANICAL—SEALING TYPE. OR AS PERMITTED IN SECTION 605.24.1, 605.24.2 AND 605.24.3. CONNECTORS OR ADAPTERS SHALL HAVE AN ELASTOMERIC SEAL CONFORMING TO ASTM F477.

JOINTS SHALL BE INSTALLED IN ACCORDANCE TO MANUFACTURER'S INSTRUCTIONS.

605.24.1 COPPER OR COPPER-ALLOY TUBING

JOINTS BETWEEN COPPER OR COPPER-ALLOY TUBING AND GALVANIZED STEEL PIPE SHALL BE MADE WITH A BRASS FITTING OR DIELECTRIC UNION CONFORMING TO

APPROVED MANNER, AND THE FITTING SHALL BE SCREWED TO THE THREADED PIPE

JOINTS BETWEEN DIFFERENT TYPES OF PLASTIC PIPE AND OTHER PIPING MATERIALS

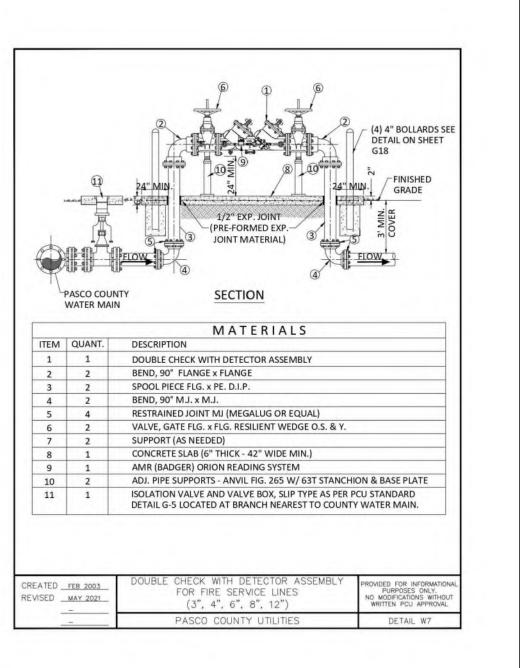
605.24.2 PLASTIC PIPE OR TUBING TO

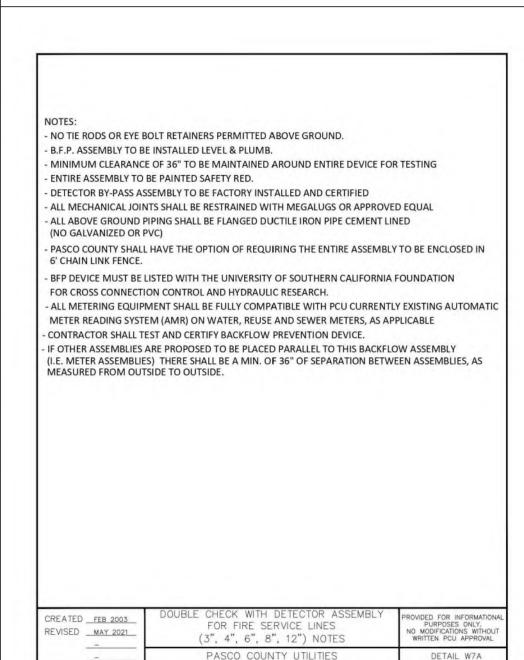
SHALL BE MADE WITH APPROVED ADAPTERS OR TRANSITION FITTINGS

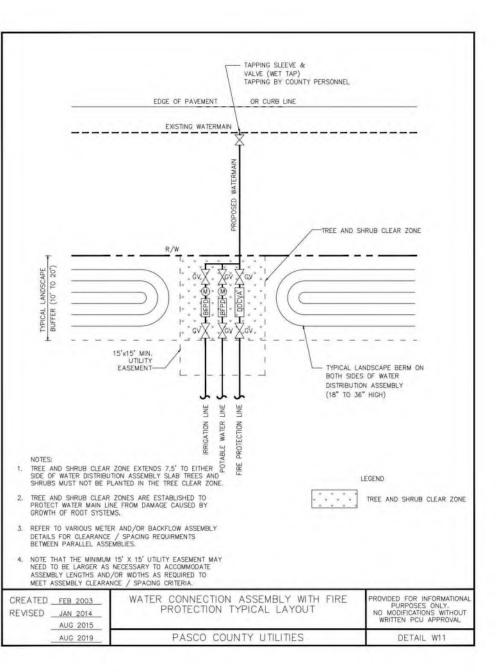
TO GALVANIZED STEEL PIPE.

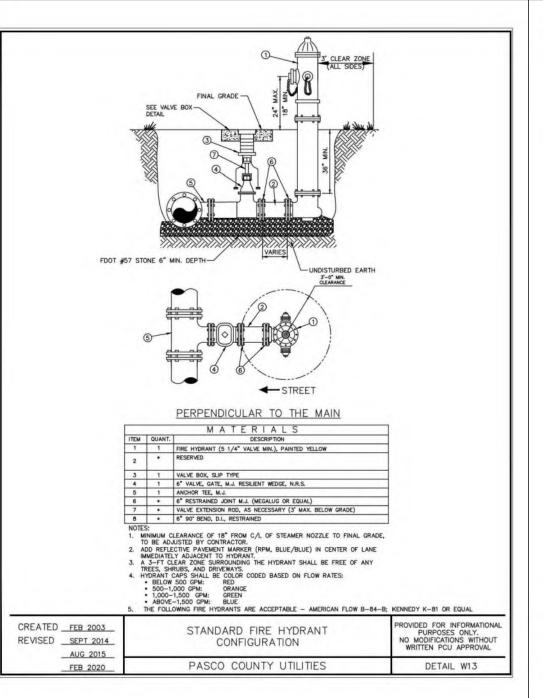
OTHER PIPING MATERIALS

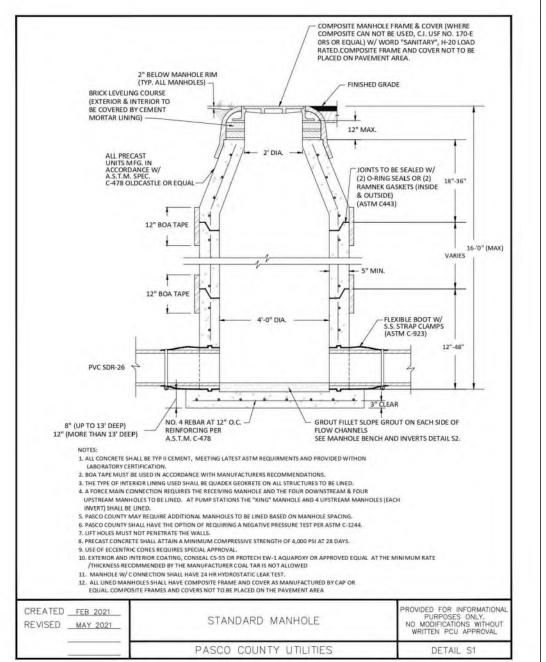
605.24.3 STAINLESS STEEL

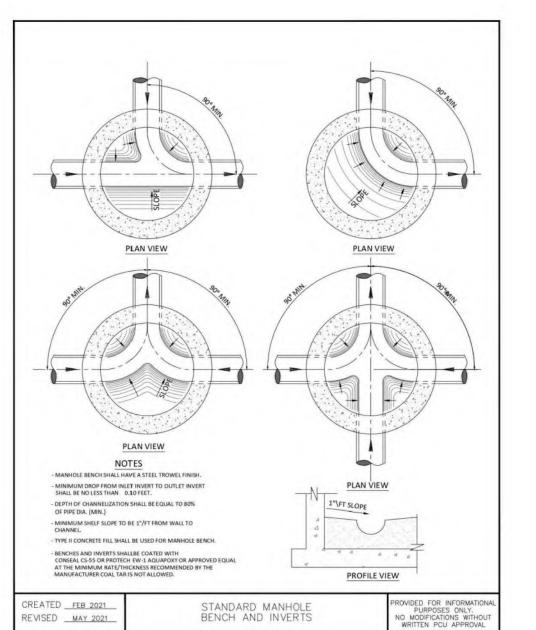






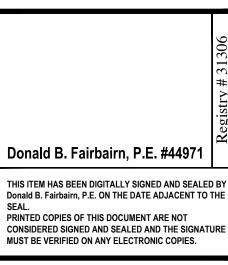






PASCO COUNTY UTILITIES



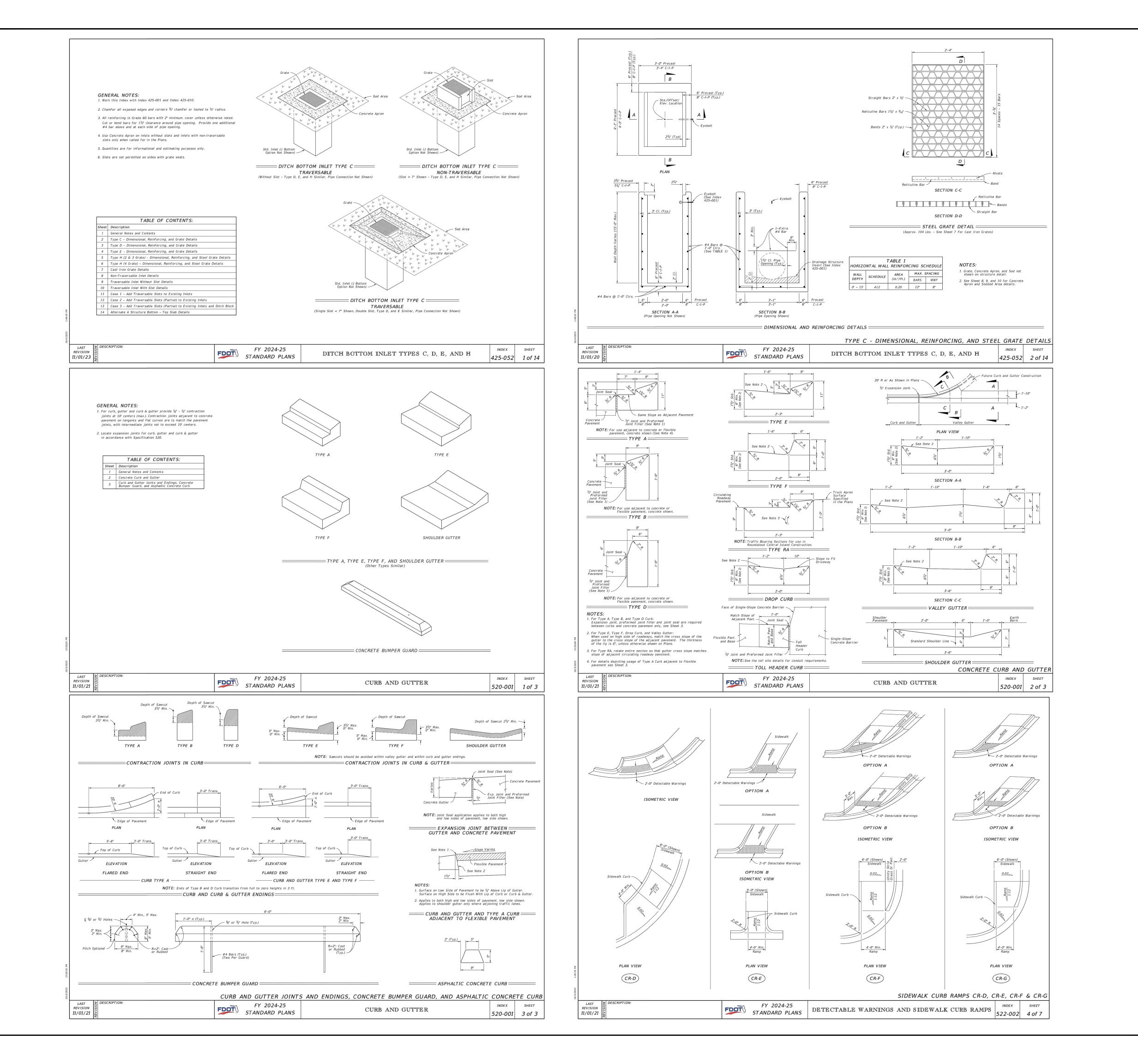


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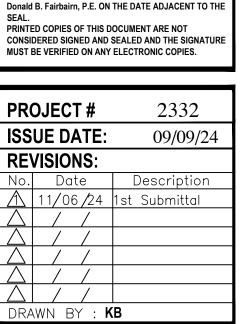
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PROJECT# **ISSUE DATE: REVISIONS:** 11/06/24 1st Submittal

Donald B. Fairbairn, P.E. #44971

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