



PART OF SECTION 11, TOWNSHIP 28 SOUTH, RANGE 16 EAST
CITY OF OLDSMAR, FLORIDA



PROPERTY INFORMATION	
FOLIO #	11-28-16-00000-430-0100
ZONING	RPD W/ PUD OVERLAY
SPI3-05 WAS APPROVED ON DECEMBER 20, 2013 BY TECHNICAL REVIEW COMMITTEE	

PROPERTY DESCRIPTION

OVERALL DESCRIPTION

A PARCEL OF LAND LOCATED IN SECTION 11 AND IN SECTION 14, TOWNSHIP 28, SOUTH, RANGE 16 EAST, PINELLAS COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHWEST CORNER OF SAID SECTION 11, THENCE N00°47'30"W, ALONG THE WEST LINE OF THE SOUTHWEST 1/4 OF SAID SECTION 11, FOR 1090.85 FEET; THENCE S89°53'32"E, FOR 2722.83 FEET TO THE POINT OF BEGINNING; THENCE FROM THE POINT OF BEGINNING CONTINUE S89°53'32"E, FOR 40.25 FEET TO A POINT ON THE WEST RIGHT-OF-WAY LINE OF FOREST LAKES BOULEVARD (RIGHT-OF-WAY WIDTH VARIES) AND ALONG SAID WEST RIGHT-OF-WAY LINE FOR THE FOLLOWING THREE (3) COURSES: THENCE (1) S30°00'00"E, FOR 62.23 FEET TO THE POINT OF BEGINNING; (2) S00°00'00"E, ALONG THE CURVATURE OF A CURVE CONCAVE TO THE WEST; BEING OF THE SOUTHERLY 328.16 FEET ALONG THE ARC OF SAID CURVE, HAVING A RADIUS OF 965.74 FEET, A CENTRAL ANGLE OF 10.19 DEGREES, A CHORD LENGTH OF 325.59 FEET AND A CHORD BEARING OF S29°25'34"E TO THE POINT OF BEGINNING; THENCE (3) S19°42'00"E, FOR 219.83 FEET TO A POINT OF INTERSECTION WITH THE NORTH RIGHT-OF-WAY LINE OF FOREST LAKES BOULEVARD (RIGHT-OF-WAY WIDTH VARIES); THENCE S14°07'14"W, ALONG SAID NORTH RIGHT-OF-WAY LINE, FOR 701.23 FEET; THENCE N60°00'00"E, FOR 816.07 FEET; THENCE N15°00'00"W, FOR 407.03 FEET TO THE POINT OF BEGINNING.

CONTAINING 430.166 SQUARE FEET OR 9.88 ACRES, MORE OR LESS.

THE ABOVE DESCRIBED PROPERTY APPEARS TO BE IN ZONE X, IN ACCORDANCE WITH THE FIRM MAP OF THE CITY OF OLDSMAR, PINELLAS COUNTY, COMMUNITY NUMBER 120250 (MAP NUMBER 12103-0091-Q), MAP DATED SEPTEMBER 3, 2003.

BOV LIMITED, LLP



RECORD DRAWING LEGEND

42.00	PROPOSED/DESIGN ELEVATION OR
42.07	DIMENSION LINED THROUGH,
	'RECORD' ELEVATION OR
	DIMENSION WRITTEN IN.
$\times$ 54.8	INDICATES RECORD ELEVATION
$\checkmark$	INDICATES 'RECORD' ELEVATION,
	DIMENSION, SLOPE, et cetera.
	INDICATES 'RECORD' ITEM NUMBER
	INDICATES 'RECORD' ITEM DESCRIPTION

taylor
morrison

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TAYLOR MORRISON OF FLORIDA, INC.

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LAND DEVELOPMENT CONSULTANTS**

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FINAL SITE PLANS

TUSCANY WOODS NORTH

CLIENT: TAYLOR MORRISON OF FLORIDA, INC.

COVER SHEET

[illegible]



Transferred to Operation

GENERAL NOTES

- 1) THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE PERMIT AND INSPECTION REQUIREMENTS SPECIFIED BY THE VARIOUS GOVERNMENTAL AGENCIES AND THE ENGINEER/ARCHITECT. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION, AND SCHEDULE ANY NECESSARY INSPECTIONS ACCORDING TO AGENCY INSTRUCTIONS.
- 2) ALL SPECIFICATIONS AND DOCUMENTS REFERRED TO IN THESE PLANS SHALL BE OF THE LATEST REVISION.
- 3) ALL WORK PERFORMED SHALL COMPLY WITH THE REGULATIONS AND ORDINANCES OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK.
- 4) CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL PRECAST AND MANUFACTURED ITEMS TO THE OWNER'S ENGINEER FOR APPROVAL. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT CONTRACTORS EXPENSE.
- 5) 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, INCLUDING BUT NOT LIMITED TO DUKE ENERGY, VERIZON, BRIGHTHOUSE, FLORIDA GAS AND THEIR SUBCONTRACTORS.
- 6) THE WATER, SANITARY SEWER AND STORM DRAINAGE FACILITIES ARE SUBJECT TO THE REVIEW AND APPROVAL OF CITY OF OLDSMAR ENGINEERING DEPARTMENT.
- 7) CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES BEFORE ORDERING MATERIALS AND CASTING STRUCTURES.
- 8) IT WILL BE NECESSARY TO EXAMINE, COORDINATE AND ADJUST ACCORDINGLY THE PROPOSED LOCATIONS OF THE VARIOUS COMPONENTS OF THE SITE UTILITIES. THE LAYOUTS INDICATED IN THE PLANS ARE NOT EXACT AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SUBMIT COORDINATION DRAWINGS SHOWING PIPE SIZES, STRUCTURES, AND ELEVATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SCHEDULING AND COORDINATION OF THE ALL UNDERGROUND WORK ASSOCIATED WITH THIS PROJECT.
- 9) PRIOR TO ANY CLEARING, AREAS THAT ARE CUT CORRIDORS SHALL BE ROOT PRUNED WITH A DOSKO BRAND ROOT PRUNER, OR APPROVED EQUAL. PROVIDE TREE PROTECTION BARRICADES, IN ACCORDANCE WITH PINELLAS COUNTY SPECIFICATIONS, AROUND EXISTING TREES TO REMAIN. COORDINATE WITH OWNER'S ARBORIST PRIOR TO REMOVAL OF EXISTING TREES IN CONFLICT WITH PROPOSED UNDERGROUND UTILITIES.

SAFETY NOTES

- 1) DURING THE CONSTRUCTION AND MAINTENANCE OF THIS PROJECT, ALL SAFETY REGULATIONS ARE TO BE ENFORCED. THE CONTRACTOR OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE TRAVELING PUBLIC AND THE SAFETY OF HIS PERSONNEL.
- 2) LABOR SAFETY REGULATIONS SHALL CONFORM TO THE PROVISIONS SET FORTH BY OSHA IN THE FEDERAL REGISTER OF THE DEPARTMENT OF TRANSPORTATION.
- 3) CONTRACTOR SHALL PROVIDE AND MAINTAIN ITS OWN SAFETY EQUIPMENT IN ACCORDANCE WITH ITS HEALTH & SAFETY PROGRAM AND ALL OTHER APPLICABLE LEGAL AND HEALTH AND SAFETY REQUIREMENTS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROVIDING ITS EMPLOYEES AND SUBCONTRACTORS WITH ADEQUATE INFORMATION AND TRAINING TO ENSURE THAT ALL EMPLOYEES AND SUBCONTRACTORS AND SUBCONTRACTORS EMPLOYEES COMPLY WITH ALL APPLICABLE REQUIREMENTS. CONTRACTOR SHALL REMAIN IN COMPLIANCE WITH ALL OCCUPATION SAFETY AND HEALTH REGULATIONS AS WELL AS THE ENVIRONMENTAL PROTECTION LAWS. THE FOLLOWING IS NOT TO BE PERCEIVED AS THE ENTIRE SAFETY PROGRAM BUT JUST BASIC REQUIREMENTS.
- 4) ALL EXCAVATIONS BY THE CONTRACTOR SHALL CONFORM TO THE REQUIREMENTS OF THE DEPARTMENT OF LABOR'S OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION RULES AND REGULATIONS. PARTICULAR ATTENTION MUST BE PAID TO THE CONSTRUCTION STANDARDS FOR EXCAVATIONS, 29 CFR PART 1926, SUBPART F.
- 5) 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 WORKMEN FROM HAZARDS WITHIN THE PROJECT LIMITS.
- 6) ALL TRAFFIC CONTROL MARKINGS AND DEVICES SHALL CONFORM TO THE PROVISIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES PREPARED BY THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION.
- 7) IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY AND ENFORCE ALL APPLICABLE SAFETY REGULATIONS. THE ABOVE INFORMATION HAS BEEN PROVIDED FOR THE CONTRACTORS INFORMATION ONLY AND DOES NOT IMPLY THAT THE OWNER OR ENGINEER WILL INSPECT AND/OR ENFORCE SAFETY REGULATIONS.
- 8) THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES AND SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE UTILITY COMPANIES PRIOR TO CONSTRUCTION TO OBTAIN FIELD LOCATIONS OF EXISTING UNDERGROUND UTILITIES. CALL SUNSHINE-ONE (1-800-432-4770) TO ARRANGE FIELD LOCATIONS.
- 9) THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES, ABOVE OR BELOW GROUND, THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED BY THE CONTRACTOR CALLED FOR IN THIS CONTRACT.
- 10) ALL UNDERGROUND UTILITIES MUST BE IN PLACE AND TESTED OR INSPECTED PRIOR TO BASE AND PAVEMENT CONSTRUCTION.

SITE PLAN AND COORDINATE GEOMETRY NOTES

- 1) TOPOGRAPHIC INFORMATION SHOWN IS BASED ON A SURVEY CONDUCTED BY GEOPoint SURVEYING, INC. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- 2) ALL POINTS AND MONUMENTS SHALL BE SURVEYED UPON MOBILIZATION TO VERIFY THEIR ACCURACY. ANY DISCREPANCIES DISCOVERED MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING.
- 3) MONUMENTS AND OTHER SURVEY CONTROL POINTS SHALL BE PROTECTED FROM DAMAGE AND DISTURBANCE. IF ANY CONTROL POINTS ARE DAMAGED OR DISTURBED, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER AND REPLACE THE CONTROL POINTS TO THEIR ORIGINAL POSITION.
- 4) LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES AFFECTING THIS WORK PRIOR TO CONSTRUCTION.
- 5) UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL FURNISH THE OWNER'S ENGINEER WITH COMPLETE "AS-BUILT" INFORMATION CERTIFIED BY A REGISTERED LAND SURVEYOR. THIS "AS-BUILT" INFORMATION SHALL INCLUDE INVERT ELEVATIONS, LOCATION OF FITTINGS, LOCATION OF STRUCTURES FOR ALL UTILITIES INSTALLED. NO ENGINEERS CERTIFICATIONS, FOR FINALIZATION PURPOSES, WILL BE MADE UNTIL THIS INFORMATION IS RECEIVED AND APPROVED BY THE ENGINEER. COPIES OF THE "AS-BUILT" DRAWINGS SHALL BE PROVIDED TO THE CITY.

WATER DISTRIBUTION NOTES

- 1) SANITARY SEWERS, RECLAIMED WATER MAINS AND STORM SEWERS CROSSING WATER MAINS 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 WHENEVER POSSIBLE.
- WHERE SANITARY SEWERS, RECLAIMED WATER MAINS AND STORM SEWERS MUST CROSS A WATER MAIN WITH LESS THAN 18 INCHES VERTICAL DISTANCE, THE SEWER SHALL BE CONSTRUCTED WITH CONCRETE ENCASED PVC PIPE OR DIP CASING WITH A PVC LINER AND THE WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON (DIP) AT THE CROSSING. (DIP IS NOT REQUIRED FOR STORM SEWERS IF IT IS NOT AVAILABLE IN THE SIZE PROPOSED.) THE SIZE OF THE PIPE SHALL BE DETERMINED BY THE CITY OF OLDSMAR. THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND THE WATER MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING (PIPES CENTERED ON THE CROSSING).
- WHERE A NEW PIPE CONFLICTS WITH AN EXISTING PIPE, THE NEW PIPE SHALL BE CONSTRUCTED OF DIP AND THE CROSSING SHALL BE ARRANGED TO MEET THE REQUIREMENTS ABOVE.
- 2) A MINIMUM 10-FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY TYPE OF SEWER AND WATER MAIN IN PARALLEL INSTALLATIONS WHENEVER POSSIBLE.
- IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10-FOOT HORIZONTAL SEPARATION, THE WATER MAIN MUST BE LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELVE LOCATED ON ONE SIDE OF THE SEWER OR FORCE MAIN AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.
- WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 18 INCHES IN PARALLEL INSTALLATIONS, THE WATER MAIN SHALL BE CONSTRUCTED OF DIP AND THE SEWER OR THE FORCE MAIN SHALL BE CONSTRUCTED OF DIP (IF AVAILABLE IN THE SIZE PROPOSED) WITH A MINIMUM VERTICAL DISTANCE OF 6 INCHES. THE WATER MAIN SHALL ALWAYS BE ABOVE THE SEWER. JOINTS ON THE WATER MAIN SHALL BE LOCATED AS FAR APART AS POSSIBLE FROM THE JOINTS ON THE SEWER OR FORCE MAIN (STAGGERED JOINTS).
- 3) ALL WATER SYSTEM WORK SHALL CONFORM TO PINELLAS COUNTY STANDARDS AND SPECIFICATIONS.
- 4) CONFLICTS BETWEEN WATER AND STORM OR SANITARY SEWER TO BE RESOLVED BY ADJUSTING THE WATER LINES AS NECESSARY AND PER ABOVE REQUIREMENTS.
- 5) ALL DUCTILE IRON PIPE AND JOINTS SHALL BE IN ACCORDANCE WITH THE PINELLAS COUNTY STANDARDS AND SPECIFICATIONS.
- 6) ALL DUCTILE FITTINGS SHALL BE COMPACT WITH A MINIMUM PRESSURE RATING OF 300 PSI AND SHALL CONFORM TO THE REQUIREMENTS OF AWWA STANDARD C-900/ASTM A153, LATEST EDITION. ALL FITTINGS SHALL BE COATED AND LINED AS SPECIFIED ABOVE FOR DUCTILE IRON PIPE.
- 7) 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 PINELLAS COUNTY STANDARDS AND SPECIFICATIONS. CONTRACTOR TO NOTIFY OWNER'S ENGINEER AND MUNICIPALITY INSPECTORS 48 HOURS IN ADVANCE OF PERFORMING TESTS. CITY STAFF SHALL WITNESS THE PRESSURE TEST AND COLLECT THE DISINFECTION SAMPLES.
- 8) CONTRACTOR TO PERFORM CHLORINATION AND PRESSURE TEST ON ENTIRE WATER SYSTEM. COPIES OF ALL BACTERIOLOGICAL TESTS TO BE SUBMITTED TO OWNER'S ENGINEER. THE CITY WILL PULL BACTERIOLOGICAL SAMPLES FOR THE PROJECT.
- 9) PIPE DEFLECTION SHALL BE IN ACCORDANCE WITH AWWA STANDARD C-600, LATEST EDITION.
- 10) ALL EXISTING AND PROPOSED VALVE BOXES SHALL BE ADJUSTED TO FINISHED GRADES AS ESTABLISHED IN THE FIELD. NO ADDITIONAL COMPENSATION SHALL BE MADE BY THE OWNER.
- 11) WHERE A HOUSE OR OTHER CONNECTION TERMINATES, THE CONTRACTOR SHALL PROVIDE AND INSTALL 2" x 4" STAKE WITH A MINIMUM OF EIGHTEEN INCHES (18") ABOVE GROUND AND TWO FEET (2') BELOW GROUND THE TOP TWELVE INCHES (12") ARE TO BE PAINTED BLUE.
- 12) THE CONTRACTOR/ENGINEER OF RECORD MUST CONTACT THE CITY OF OLDSMAR UTILITY DEPARTMENT INSPECTION SECTION AND LINE MAINTENANCE TO SET UP THE PRE CONSTRUCTION MEETING.
- 13) THE LOCATION OF ALL NEWLY INSTALLED PIPE HYDRANTS SHALL BE IDENTIFIED WITH A BLUE REFLECTIVE PAVEMENT MARKER INSTALLED ON THE ROADWAY, PERPENDICULAR TO THE FIRE HYDRANT. THE REFLECTIVE MARKER WILL BE LOCATED IN THE CENTER ON THE LANE CLOSEST TO THE HYDRANT.
- 14) CONTRACTOR TO COORDINATE WITH CITY OF OLDSMAR WATER RESOURCE DEPARTMENT PRIOR TO THE SELECTION AND ORDERING OF THE WATER METER AND/OR BACKFLOW PREVENTION DEVICE ASSEMBLIES.
- 15) THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT THE EXISTING SYSTEM MUST BE KEPT IN OPERATION AT ALL TIMES, WHERE CONNECTIONS ARE MADE TO EXISTING MAINS OR OTHER SHUTDOWNS ARE NECESSARY, PERMISSION MUST BE OBTAINED AND ARRANGEMENTS MUST BE MADE WITH THE UTILITIES DEPARTMENT FOR REMOVING FROM SERVICE THOSE MAINS THAT WILL BE AFFECTED. SHUTDOWNS MUST BE HELD TO A MINIMUM OF BOTH NUMBER AND DURATION.
- 16) NO VALVE OR OTHER CONTROL DEVICE ON THE EXISTING SYSTEM SHALL BE OPERATED BY THE CONTRACTOR WITHOUT FIRST OBTAINING APPROVAL FROM THE UTILITIES DEPARTMENT. THE CONTRACTOR SHALL, AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE, NOTIFY CITIZENS SUBJECT TO INTERFERING WITH THE USE OF PUBLIC HANGERS OR ANY OTHER APPROVED METHOD OF THE STARTING TIME AND DURATION OF SUCH INTERRUPTION.
- 17) ALL JOINTS, FITTINGS AND OTHER APPURTENANCES SHALL NOT BE COVERED UNTIL INSPECTED BY THE CITY OF OLDSMAR INSPECTOR. NON-COMPLIANCE WILL REQUIRE EXCAVATION OF ALL JOINTS AND FITTINGS.
- 18) PIPE AND FITTINGS WILL BE LOCATED SEVEN FEET BACK OF CURB AND FIVE FEET TO 14 INCH FEET ON CURVES IN ALL SUBDIVISIONS. AT OTHER LOCATIONS, THE PIPE AND FITTINGS WILL BE AS SHOWN ON THE APPROVED PLANS. ALL PIPE FOUR INCHES AND LARGER IN DIAMETER MAY BE DEFLECTED, BUT NOT BENT. PVC PIPE TWO INCHES IN DIAMETER MAY BE BENT AROUND CUL-DE-SACS THAT HAVE A RADIUS OF THIRTY-SEVEN (37) FEET OR LARGER IF THE TRENCH IS LEFT OPEN UNTIL THE DEI INSPECTOR IS ON-SITE TO DOCUMENT THAT THIS GUIDELINE IS FULLY COMPLIED WITH. THE USE OF FITTINGS NOT SHOWN ON THE "CONTRACTOR COPY" CONSTRUCTION PLAN MUST HAVE THE PRIOR CONSENT OF THE DEI INSPECTOR.
- 19) MATERIALS AND CONSTRUCTION PERTAINING TO CONSTRUCTION OF WATER DISTRIBUTION SYSTEMS SHALL BE IN ACCORDANCE WITH AMERICAN WATER WORKS ASSOCIATION (AWWA) STANDARDS.
- 20) MATERIAL SPECIFICATION SHALL BE AWWA C-900 POLYVINYL CHLORIDE (PVC) PIPE SHALL MEET OR EXCEED THE PERFORMANCE SPECIFICATIONS OF ASTM D1581 MANUFACTURED FROM COMPOUNDS WITH CELL CLASSIFICATION 1245A OR 1245AB, PUSH-IN INTEGRAL BELL TYPE JOINTS PER ASTM D3139 TESTING REQUIREMENTS, SUPPLIED WITH ELASTOMERIC GASKETS, GASKETS PER ASTM F417, SHALL COMPLY WITH AND BE LABELED AS APPROVED BY THE NATIONAL SANITATION FOUNDATION (NSF) FOR USE IN POTABLE WATER LINES MEETING NSF 14.11 OR NSF-PW. NO SOLVENT CEMENT WELD PIPE OR FITTINGS WILL BE ACCEPTED. COLOR OF POTABLE WATER PIPE SHALL BE BLUE. DIMENSION OF PIPE FOR DUCTILE IRON IS THE OUTSIDE DIAMETER. DIMENSION FOR PVC SHALL BE EITHER DR-14 OR DR-16. PRESSURE RATING IS 235 PSI @ 73 F FOR DR-16 AND 200 PSI @ 73 F FOR DR-14.
- 21) WATER MAINS SHALL BE BURIED WITH BLUE METALLIC LOCATOR TAPE. ALL LOCATOR TAPE SHALL BE PLACED TWELVE (12) INCHES ABOVE BURIED PIPE.
- 22) THE USE OF THRUST BLOCKS IN NEW LINES IS PROHIBITED AND SHALL ONLY BE LIMITED TO AREAS IN WHICH A NEW FITTING HAS BEEN INSTALLED IN AN EXISTING LINE AND IS NOT FEASIBLE TO RESTRAIN JOINTS OR WHEN DIRECTED BY THE ENGINEER.
- 23) ALL WATER MAINS SHALL BE LAID AND MAINTAINED AT THE REQUIRED LINES AND GRADES WITH FITTINGS, VALVES AND APPURTENANCES AT THE DESCRIBED LOCATIONS. ALL PIPE SHALL BE LAID TO THE DEPTH AS SHOWN ON THE PLANS, OR WHEN A DEPTH IS NOT INDICATED, WITH A MINIMUM COVER OF THIRTY (30) INCHES OUTSIDE OF THE ROADWAY, AND THIRTY-SIX (36) INCHES UNDER THE ROADWAY. GRADE LINES SHALL BE SET BY THE CONTRACTOR TO THE TOLERANCE OF SUCH GRADES SHALL NOT BE MORE THAN THAT SPECIFIED ON THE DRAWINGS. WHEN NO TOLERANCE IS INDICATED A TOLERANCE OF 0.5 FOOT SHALL BE USED. ALL OTHER REALIGNMENTS MUST BE APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL HAVE SUITABLE SURVEY EQUIPMENT ON THE SITE AT ALL TIMES.
- 24) THE WORK SHALL AT ALL TIMES PROGRESS WITH CAUTION TO PREVENT DAMAGE TO UNDERGROUND OBSTRUCTIONS BOTH KNOWN AND UNKNOWN. SHOULD AN OBSTRUCTION NOT SHOWN ON THE PLANS BE ENCOUNTERED, THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED AND HE SHALL BE RESPONSIBLE FOR ALTERATION TO THE PLAN SHOULD REALIGNMENT BE NECESSARY. THE CONTRACTOR SHALL NOTIFY THE ENGINEER FAR ENOUGH IN ADVANCE TO ALLOW THE REALIGNMENT TO BE ACCOMPLISHED BY DEFLECTION IN THE PIPE JOINTS.
- 25) TRACER WIRE SHALL BE INSTALLED ON ALL MAINLINE PIPES. MAINLINE PIPE INSTALLED BY OPEN CUT METHOD SHALL HAVE TWO (2) 14-GAUGE MINIMUM SOLID COPPER OR TWO (2) 12-GAUGE COPPER CLAD STEEL TRACER WIRES TAPED TO THE TOP CENTER OF THE PIPE. MAINLINE PIPE INSTALLED BY HORIZONTAL DIRECTIONAL DRILL SHALL HAVE TWO (2) 12-GAUGE COPPER CLAD STEEL TRACER WIRES INSTALLED WITH THE PIPE. ALL TRACER WIRES SHALL BE AS SPECIFIED IN THE MATERIAL SPECIFICATION MANUAL.
- 26) ALL ABOVE GROUND INSTALLATIONS, EXCEPT FOR FIRE HYDRANTS AND GUARD POST, SHALL BE PAINTED OSHA SAFETY PRECAUTION BLUE. PAINT APPLICATION SHALL BE IN ACCORDANCE WITH THE PAINT MANUFACTURERS RECOMMENDATION.
- 27) ALL POTABLE WATER MAINS SHALL BE TESTED AND DISINFECTED IN ACCORDANCE WITH SPECIFICATIONS 01 45 17, PIPELINE PRESSURE AND LEAKAGE TESTING REQUIREMENTS AND 33 13 01, DISINFECTION OF POTABLE WATER MAINS.
- 28) THE CONTRACTOR SHALL SCHEDULE BACTERIOLOGICAL SAMPLING THROUGH THE CITY OF OLDSMAR INSPECTOR. A REPRESENTATIVE FROM THE CITY WATER QUALITY MANAGEMENT SHALL MEET WITH THE CITY OF OLDSMAR INSPECTOR AND/OR THE CONTRACTOR AS APPLICABLE. COPIES OF "RECORD DRAWINGS" SHALL BE PROVIDED TO THE CITY.

PAVING AND GRADING NOTES

- 1) ALL DELETERIOUS SUBSURFACE MATERIAL (E.G. MUCK, PEAT, BURIED DEBRIS) IS TO BE EXCAVATED IN ACCORDANCE WITH THESE PLANS OR AS DIRECTED BY THE OWNER, THE OWNER'S ENGINEER, OR OWNER'S SOIL TESTING COMPANY. DELETERIOUS MATERIAL IS TO BE STOCKPILED OR REMOVED FROM THE SITE AS DIRECTED BY THE OWNER. EXCAVATED AREAS ARE TO BE BACK FILLED WITH APPROVED MATERIALS AND COMPACTED AS SHOWN ON THESE PLANS. CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING DELETERIOUS MATERIAL FROM THE SITE.
- 2) THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND WILL PROVIDE BRACING, SHEETING OR SHORING AS NECESSARY. Dewatering methods shall be used as required to keep trenches dry while pipe and appurtenances are being placed.
- 3) ALL NECESSARY FILL AND EMBANKMENT THAT IS PLACED DURING CONSTRUCTION SHALL CONSIST OF MATERIAL SPECIFIED BY THE OWNER'S SOIL TESTING COMPANY OR ENGINEER AND BE PLACED AND COMPACTED ACCORDING TO THESE PLANS OR THE REFERENCED SOILS REPORT.
- 4) PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT OR GROUND SURFACE GRADE UNLESS OTHERWISE NOTED ON DRAWINGS.
- 5) CONTRACTOR SHALL TRIM, TACK AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT.
- 6) CURBING WILL BE PLACED AT THE EDGE OF ALL PAVEMENT, AS SHOWN ON THE PLANS.
- 7) REFER TO THE LATEST EDITION OF F.D.O.T. "ROADWAY AND TRAFFIC DESIGN STANDARDS" FOR DETAILS AND SPECIFICATIONS OF ALL F.D.O.T. TYPE CURBING AND GUTTERS CALLED FOR IN THESE PLANS.
- 8) ALL PAVEMENT MARKINGS SHALL BE MADE WITH PERMANENT THERMOPLASTIC AND SHALL CONFORM TO APPLICABLE F.D.O.T. STANDARD INDEXES.
- 9) THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING APPLICABLE TESTING WITH THE SOILS ENGINEER. TESTS WILL BE REQUIRED PURSUANT TO PINELLAS COUNTY AND FOOT SPECIFICATIONS. UPON COMPLETION OF PROPOSED CONSTRUCTION, SOILS ENGINEER WILL SUBMIT CERTIFICATIONS TO THE OWNER'S ENGINEER STATING THAT ALL REQUIREMENTS HAVE BEEN MET.
- 10) A QUALIFIED TESTING LABORATORY SHALL PERFORM ALL TESTING NECESSARY TO ASSURE COMPLIANCE OF THE IN PLACE MATERIALS AS REQUIRED BY THESE PLANS AND THE VARIOUS AGENCIES. SHOULD ANY RETESTING BE REQUIRED DUE TO THE FAILURE OF ANY TESTS TO MEET THE REQUIREMENTS, THE CONTRACTOR WILL BEAR ALL COSTS OF SAID RETESTING.
- 11) THE CONTRACTOR IS RESPONSIBLE TO PREVENT ANY WIND OR STORMWATER RUNOFF EROSION AND IMPLEMENT A STORMWATER POLLUTION PREVENTION PLAN THAT MEETS REGULATORY REQUIREMENTS. REFER TO THE STORMWATER POLLUTION PREVENTION NOTES.

DRAINAGE NOTES

- 1) ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE CLASS III (ASTM C-76) UNLESS OTHERWISE NOTED ON PLANS. ALL DRAINAGE STRUCTURES SHALL BE IN ACCORDANCE WITH PINELLAS COUNTY, DEPT OF ENVIRONMENT AND INFRASTRUCTURE STANDARDS UNLESS OTHERWISE NOTED ON PLANS.
- 2) PIPE LENGTHS SHOWN ARE APPROXIMATE AND TO CENTER OF DRAINAGE STRUCTURE WITH THE EXCEPTION OF MITERED END SECTIONS WHICH ARE NOT INCLUDED IN LENGTHS.
- 3) ALL DRAINAGE STRUCTURE TOPS AND COVERS SHALL BE TRAFFIC RATED FOR H-20 LOADINGS.
- 4) ALL STORM DRAINAGE PIPING SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE OWNER'S ENGINEER PRIOR TO THE PLACEMENT OF BACKFILL. CONTRACTOR TO NOTIFY THE ENGINEER 48 HOURS IN ADVANCE TO SCHEDULE INSPECTION.
- 5) THE CONTRACTOR SHALL MAINTAIN AND PROTECT FROM MUD, DIRT, DEBRIS, ETC. THE STORM DRAINAGE SYSTEM UNTIL FINAL ACCEPTANCE OF THE PROJECT. THE CONTRACTOR MAY BE REQUIRED TO RECLEAN PIPES AND INLETS FOR THESE PURPOSES.

SANITARY SEWER NOTES

- 1) SANITARY SEWERS, RECLAIMED WATER MAINS AND STORM SEWERS CROSSING WATER MAINS 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 WHENEVER POSSIBLE.
- WHERE SANITARY SEWERS, RECLAIMED WATER MAINS AND STORM SEWERS MUST CROSS A WATER MAIN WITH LESS THAN 18 INCHES VERTICAL DISTANCE, THE SEWER SHALL BE CONSTRUCTED WITH CONCRETE ENCASED PVC PIPE OR DIP CASING WITH A PVC LINER AND THE WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON (DIP) AT THE CROSSING. (DIP IS NOT REQUIRED FOR STORM SEWERS IF IT IS NOT AVAILABLE IN THE SIZE PROPOSED.) THE SIZE OF THE PIPE SHALL BE DETERMINED BY THE CITY OF OLDSMAR. THE SEPARATION OF 10 FEET BETWEEN ANY TWO JOINTS. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE LEAK FREE AND MECHANICALLY RESTRAINED. A MINIMUM VERTICAL CLEARANCE OF 6 INCHES MUST BE MAINTAINED AT THE CROSSING. ALL CROSSINGS SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND THE WATER MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING (PIPES CENTERED ON THE CROSSING).
- WHERE A NEW PIPE CONFLICTS WITH AN EXISTING PIPE, THE NEW PIPE SHALL BE CONSTRUCTED OF DIP AND THE CROSSING SHALL BE ARRANGED TO MEET THE REQUIREMENTS ABOVE.
- 2) A MINIMUM 10-FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY TYPE OF SEWER AND WATER MAIN IN PARALLEL INSTALLATIONS WHENEVER POSSIBLE.
- IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10-FOOT HORIZONTAL SEPARATION, THE WATER MAIN MUST BE LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELVE LOCATED ON ONE SIDE OF THE SEWER OR FORCE MAIN AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.
- WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 18 INCHES IN PARALLEL INSTALLATIONS, THE WATER MAIN SHALL BE CONSTRUCTED OF DIP AND THE SEWER OR THE FORCE MAIN SHALL BE CONSTRUCTED OF DIP (IF AVAILABLE IN THE SIZE PROPOSED) WITH A MINIMUM VERTICAL DISTANCE OF 6 INCHES. THE WATER MAIN SHOULD ALWAYS BE ABOVE THE SEWER. JOINTS ON THE WATER MAIN SHALL BE LOCATED AS FAR APART AS POSSIBLE FROM THE JOINTS ON THE SEWER OR FORCE MAIN (STAGGERED JOINTS).
- 3) ALL SANITARY SEWER WORK SHALL CONFORM WITH APPLICABLE AGENCY STANDARDS AND SPECIFICATIONS.
- 4) PRIOR TO COMMENCING WORK WHICH REQUIRES CONNECTING NEW SANITARY SEWER LINES TO EXISTING LINES OR APPURTENANCES, THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES NEAR THE POINT OF CONNECTION AND NOTIFY OWNER'S ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITH DESIGN INFORMATION SHOWN IN THESE PLANS.
- 5) THE CONTRACTOR SHALL PERFORM AN INFILTRATION OR EXFILTRATION TEST ON ALL GRAVITY SEWERS IN ACCORDANCE WITH THE REGULATORY AGENCY HAVING JURISDICTION. SAID TESTS ARE TO BE CERTIFIED BY THE ENGINEER OF RECORD AND SUBMITTED TO THE REGULATORY AGENCY FOR APPROVAL. COORDINATION OF TESTS AND NOTIFICATION OF ALL PARTIES IS THE CONTRACTORS RESPONSIBILITY.
- 6) GRAVITY SANITARY SEWER PIPES WHICH ARE LOCATED UNDER UNPAVED AREAS SHALL COMPLY WITH AWWA C-900 AND SHALL BE CLASS 150 SDR 18.
- 7) INSTALLATION OF PVC PIPE SHALL BE PER ASTM D-2321 AND UN-8-5.
- 8) INSPECTION OF COMPLETED LINES AND MANHOLES SHALL BE SCHEDULED WITHIN A REASONABLE TIME AFTER CONSTRUCTION OR WHEN REQUIRED BY THE ENGINEER. BEFORE SCHEDULING AN INSPECTION, THE CONTRACTOR SHALL PREPARE THE LINES BY CLEANING AND FLUSHING. MANHOLES SHALL BE CLEAN, FINISHED AND FREE OF LEAKS.
- 9) THE CONTRACTOR SHALL PROVIDE CITY OF OLDSMAR UTILITIES WITH A TELEVISION INSPECTION OF THE COMPLETED GRAVITY SEWERS IN ACCORDANCE WITH PINELLAS COUNTY STANDARDS AND TECHNICAL SPECIFICATIONS FOR UTILITIES AND RELATED CONSTRUCTION, LATEST EDITION. COPIES OF "RECORD DRAWINGS" SHALL BE PROVIDED TO THE CITY.
- 10) PVC PIPE SHALL HAVE A DEFLECTION TEST USING A SEVEN AND ONE-HALF PERCENT (GO-NO-GO) TEST MANDEL OF APPROPRIATE SIZE, WHICH SHALL BE AVAILABLE ON THE SITE AT ALL TIMES.
- 11) IN NEW SEWER CONSTRUCTION, D.I.P. AND PVC SERVICE CONNECTIONS SHALL BE MADE BY MEANS OF A WYE OR TEE. ALL JOINTS CONNECTED TO THE WYE UNIT SHALL REMAIN FLEXIBLE. SERVICE CONNECTIONS ON EXISTING MAINS SHALL BE MADE USING A SEWER SADDLE APPROVED IN THE COUNTY'S MATERIALS SPECIFICATION MANUAL.
- 12) ALL NEW SEWER SERVICE CONNECTIONS SHALL HAVE A CONTINUOUS LOOPER TRACE WIRE CONSISTING OF ONE (1) 14-GAUGE MINIMUM SOLID COPPER OR TWO (2) 12-GAUGE COPPER CLAD STEEL TRACER WIRES TAPED TO THE CENTER OF THE PIPE FROM THE CLEANOUT TO THE MAIN LINE AND BACK TO THE CLEANOUT IN ACCORDANCE WITH THE PINELLAS COUNTY STANDARD DETAILS. TRACER WIRE SHALL BE IN ACCORDANCE WITH THE COUNTY'S MATERIALS SPECIFICATIONS MANUAL.
- 13) PERFORMANCE SPECIFICATION REQUIREMENTS FOR ORDER SEWER PIPE SHALL CONFORM TO ASTM STANDARDS D-3034, CELL CLASSIFICATION 1245AB OR 1236AC AS DEFINED UNDER ASTM STANDARDS D1784, PUSH-IN INTEGRAL BELL TYPE SUPPLIED WITH A ELASTOMERIC GASKET INSTALLED. JOINT PER ASTM STANDARDS D3217 SEWER PLASTIC PIPE USING ELASTOMERIC GASKETS, GASKET PER ASTM F417 FOR JOINING PLASTIC PIPE. NO SOLVENT CEMENT WELD PIPE OR FITTINGS WILL BE ACCEPTED. SHALL COMPLY WITH AND BE LABELED AS APPROVED BY THE NATIONAL SANITATION FOUNDATION (NSF) FOR USE IN SANITARY SEWERS. THE COLOR OF SANITARY SEWER PIPE SHALL BE GREEN. DIMENSIONS SHALL BE SDR-35 (HEAVY WALL) OR SDR-35 (STANDARD WALL - MINIMUM REQUIREMENT).
- 14) ALL FORCE MAINS SHALL BE LAID AND MAINTAINED AT THE REQUIRED LINES AND GRADES WITH FITTINGS, VALVES AND APPURTENANCES AT THE DESCRIBED LOCATIONS. ALL PIPE SHALL BE LAID TO THE DEPTH AS SHOWN ON THE PLANS, OR WHEN A DEPTH IS NOT INDICATED, WITH A MINIMUM COVER OF THIRTY (30) INCHES OUTSIDE OF THE ROADWAY, AND THIRTY-SIX (36) INCHES UNDER THE ROADWAY. GRADE LINES SHALL BE SET BY THE CONTRACTOR. THE TOLERANCE OF SUCH GRADES SHALL NOT BE MORE THAN THAT SPECIFIED ON THE DRAWINGS. WHEN NO TOLERANCE IS INDICATED A TOLERANCE OF 0.5 FOOT SHALL BE USED. ALL OTHER REALIGNMENTS MUST BE APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL HAVE SUITABLE SURVEY EQUIPMENT ON THE SITE AT ALL TIMES.
- 15) THE WORK SHALL AT ALL TIMES PROGRESS WITH CAUTION SO AS TO PREVENT DAMAGE TO UNDERGROUND OBSTRUCTIONS BOTH KNOWN AND UNKNOWN. SHOULD AN OBSTRUCTION NOT SHOWN ON THE PLANS BE ENCOUNTERED, THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED AND HE SHALL BE RESPONSIBLE FOR ALTERATION TO THE PLAN SHOULD REALIGNMENT BE NECESSARY. THE CONTRACTOR SHALL NOTIFY THE ENGINEER FAR ENOUGH IN ADVANCE TO ALLOW THE REALIGNMENT TO BE ACCOMPLISHED BY DEFLECTION IN THE PIPE JOINTS.
- 16) TRACER WIRE SHALL BE INSTALLED ON ALL MAINLINE PIPE. MAINLINE PIPE INSTALLED BY OPEN CUT METHOD SHALL HAVE TWO (2) 14-GAUGE MINIMUM SOLID COPPER OR TWO (2) 12-GAUGE COPPER CLAD STEEL TRACER WIRES TAPED TO THE TOP CENTER OF THE PIPE. MAINLINE PIPE INSTALLED BY HORIZONTAL DIRECTIONAL DRILL SHALL HAVE TWO (2) 12-GAUGE COPPER CLAD STEEL TRACER WIRES INSTALLED WITH THE PIPE. ALL TRACER WIRES SHALL BE AS SPECIFIED IN THE MATERIAL SPECIFICATION MANUAL.
- 17) THE USE OF THRUST BLOCKS IN NEW LINES IS PROHIBITED AND SHALL ONLY BE LIMITED TO AREAS IN WHICH A NEW FITTING HAS BEEN INSTALLED IN AN EXISTING LINE AND IS NOT FEASIBLE TO RESTRAIN JOINTS OR WHEN DIRECTED BY THE ENGINEER.
- 18) ALL ABOVE GROUND INSTALLATIONS SHALL BE PAINTED OSHA SAFETY PRECAUTION GREEN. PAINT APPLICATION SHALL BE IN ACCORDANCE WITH THE PAINT MANUFACTURERS RECOMMENDATION.
- 19) ALL SEWAGE FORCE MAINS SHALL BE TESTED IN ACCORDANCE WITH SPECIFICATION 01 45 17, PIPELINE PRESSURE AND LEAKAGE TESTING REQUIREMENTS.

CONSTRUCTION STANDARDS AND SPECIFICATIONS

- 1) MAINTENANCE OF TRAFFIC SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND IN ACCORDANCE WITH STATE OF FLORIDA D.O.T. STANDARD INDEX 600.
- 2) ALL PAVEMENT STRIPING AND TRAFFIC FLOW ARROWS SHALL BE THERMOPLASTIC COMPOUND, MEETING THE REQUIREMENTS OF AASHTO M 249-79 (1986) AND BE INSTALLED IN SUBSTANTIAL COMPLIANCE WITH F.D.O.T. STANDARD FOR ROAD AND BRIDGE CONSTRUCTION 1691, SECTION 711 WITH ROPS PER FOOT #1702.
- 3) ALL WORK PERFORMED WITHIN THE RIGHT OF WAY SHALL CONFORM TO:
 - a) FOOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2004). (AKA: STANDARD SPECS).
 - b) FOOT DESIGN STANDARDS FOR DESIGN, CONSTRUCTION, MAINTENANCE AND OPERATIONS OF THE STATE HIGHWAYS SYSTEM, LATEST EDITION. (AKA: STANDARD INDEX). COMPLIANCE WITH ALL APPLICABLE INDEXES IS REQUIRED.
 - c) FOOT ROADWAY PLANS PREPARATION MANUAL, VOLUME 1, CHAPTERS 2 AND 25 (2004).
 - d) FOOT FLEXIBLE PAVEMENT DESIGN MANUAL, FOR NEW CONSTRUCTION AND PAVEMENT REHABILITATION, JANUARY 2002.
 - e) ALL TRAFFIC STRIPES AND MARKINGS ARE TO BE LEAD-FREE, NON-SOLVENT BASED THERMOPLASTIC. THE PERMITTEE SHALL FURNISH THE FOOT WITH THE MANUFACTURE'S CERTIFICATION THAT THE THERMOPLASTIC IS "LEAD-FREE".
- 4) ALL PROPOSED PAVEMENT MARKINGS TO MEET AND MATCH EXISTING PAVEMENT MARKINGS.
- 5) MOT PLANS SHALL BE PROVIDED TO THE CITY'S TECHNICAL SERVICES DIVISION FOR APPROVAL.

DEWATERING NOTES

- 1) NO EXCAVATION SHALL EXTEND BELOW THE PERMITTED DESIGN DEPTH/ELEVATION SHOWN ON THE DRAWINGS, UNLESS ADDITIONAL TESTING SUPPORTS OTHERWISE, AND NO LOWER SEMI-CONFINING UNIT CLAYEY SOIL MATERIAL AND/OR NO LIMESTONE MATERIALS SHALL BE EXCAVATED, REGARDLESS IF THESE MATERIALS ARE ENCOUNTERED WITHIN THE PERMITTED EXCAVATION DEPTHS/ELEVATIONS. IF ANY LOWER SEMI-CONFINING UNIT CLAYEY SOIL MATERIALS OR LIMESTONE MATERIALS ARE ENCOUNTERED ABOVE THE PERMITTED DEPTHS/ELEVATIONS, THEN EXCAVATION OPERATIONS SHALL CEASE IN THE GENERAL AREA. EPC MUST BE CONTACTED PRIOR TO ANY EXCAVATION OF CLAYS, IN THE ABSENCE OF ANY CONFIRMING OR SEMI-CONFINING UNIT CLAYEY SOILS, A MINIMUM OF 8' OF UNDISTURBED SOILS SHALL REMAIN ABOVE THE UNDERLYING LIMESTONE.
- 2) THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD AND THE GEOTECHNICAL ENGINEER IF SIGNIFICANT CLAY LAYERS ARE ENCOUNTERED DURING POND EXCAVATION. POND EXCAVATION DEPTHS MAY BE RAISED TO ELIMINATE OR MINIMIZE EXCAVATION OF CLAY MATERIAL. IF THE EXCAVATION EXPOSES CLAYS OR VERY CLAYEY SANDS TO THE FINAL POND SURFACES, THE EXPOSED CLAY AND CLAYEY AREAS SHALL BE COVERED WITH ONE FOOT OF CLEAN SANDY SOILS.
- 3) POND BERMS ADJACENT TO WETLANDS, WHERE SHOWN, SHALL BE CONSTRUCTED AS EARLY AS PRACTICAL IN THE RELATED POND EXCAVATION OPERATION. THE PURPOSE IS TO PREVENT TURBID WATER DISCHARGE TO THE WETLAND DURING POND EXCAVATION. CONTROL STRUCTURES ARE TO BE TEMPORARILY BLOCKED IF NECESSARY TO PREVENT DISCHARGE OF TURBID WATERS.
- 4) WHERE PUMPS ARE TO BE USED TO REMOVE TURBID WATERS FROM CONSTRUCTION AREAS, THE WATER SHALL BE TREATED PRIOR TO DISCHARGE TO THE WETLANDS AND TO PROTECTED UPLANDS. TREATMENT METHODS, FOR EXAMPLE, TURBID WATER BEING PUMPED INTO GRASSED SWALES OR APPROPRIATE VEGETATED AREAS (OTHER THAN UPLAND PRESERVATION AREAS AND WETLAND BUFFERS), SEDIMENT BASINS, OR CONFINED BY AN APPROPRIATE ENCLOSURE SUCH AS TURBIDITY BARRIERS, AND KEPT CONFINED UNTIL ITS TURBIDITY LEVEL MEETS STATE WATER QUALITY STANDARDS. POND TURBIDITY LEVELS MUST BE VISUALLY EVALUATED UPON CONSTRUCTION COMPLETION. LOCATION OF TURBIDITY MONITORING OR TREATMENT OF POND WATER LEVELS BY PUMPING TURBID WATER TO OVERLAND FILTRATION MAY BE NECESSARY TO PREVENT DIRECT DISCHARGE OF TURBID WATER TO ADJACENT WETLANDS.
- 5) THE CONTRACTOR SHALL OBTAIN A DEWATERING PERMIT FROM FDP IN ACCORDANCE WITH DOCUMENT 62-621.300(2) GENERIC PERMIT FOR THE DISCHARGE OF PRODUCED GROUND WATER FROM ANY NON-CONTAMINATED SITE ACTIVITY PRIOR TO DISCHARGING FROM THE SITE.

CLEARING / DEMOLITION NOTES

- 1) PRIOR TO ANY SITE CLEARING, ALL TREES SHOWN TO REMAIN AS INDICATED ON THE CONSTRUCTION PLANS SHALL BE PROTECTED IN ACCORDANCE WITH LOCAL TREE ORDINANCES AND DETAILS CONTAINED IN THESE PLANS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO MAINTAIN THESE TREES IN GOOD CONDITION. NO TREE SHOWN TO REMAIN SHALL BE REMOVED WITHOUT WRITTEN APPROVAL FROM THE CITY OF OLDSMAR AND/OR THE OWNER.
- 2) THE CONTRACTOR SHALL CLEAR AND GRUB THE SITE NECESSARY FOR CONSTRUCTION. DISTURBED AREAS WILL BE SEEDED, MULCHED, SOODED OR PLANTED WITH OTHER APPROVED LANDSCAPE MATERIAL IMMEDIATELY FOLLOWING CONSTRUCTION. REMAINING EARTHWORK THAT RESULTS FROM CLEARING AND GRUBBING OR SITE EXCAVATION IS TO BE UTILIZED ON-SITE IF REQUIRED, PROVIDED THAT THE MATERIAL IS DEEMED SUITABLE FOR CONSTRUCTION BY THE OWNER'S SOILS TESTING COMPANY. EXCESS MATERIAL IS TO BE EITHER STOCKPILED ON THE SITE AS DIRECTED BY THE OWNER OR OWNER'S ENGINEER, OR REMOVED FROM THE SITE. THE CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING EXCESS EARTHWORK FROM THE SITE.
- 4) ALL CONSTRUCTION DEBRIS AND OTHER WASTE MATERIALS SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH APPLICABLE REGULATORY AGENCY REQUIREMENTS.

WALDROP ENGINEERING



TUSCANY WOODS NORTH

CLIENT: TAYLOR MORRISON OF FLORIDA, INC.

GENERAL NOTES

PLAN REVISIONS		REVISION	DATE	BY	APP'D
A		06/12/14	REVISED PER SWFMD AND CITY OF OLDSMAR COMMENTS		
B		06/11/14	REVISED PER CITY OF OLDSMAR COMMENTS		

U:\37401 Tuscany Woods\AutoCAD\37401-01 Construction Plans\North Current Plans\374010104.dwg
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Transferred to Operation

THE MANORS OF FOREST
LAKES PHASE 2 PLAT
BOOK 91, PAGES 77-81
COMMON AREA &
DRAINAGE EASEMENT

PROPERTY
BOUNDARY

WETLAND B
(4.32 Ac. M.O.L.)
SHW IN EL. = 11.72
SHW 2N EL. = 11.92
SHW 3 EL. = 11.84
SHW 4 EL. = 11.75
SHW 5 EL. = 12.01
NP 1 EL. = 12.56
NP 2 EL. = 11.51

WETLAND B
(4.32 Ac. M.O.L.)
SHW IN EL. = 11.72
SHW 2N EL. = 11.92
SHW 3 EL. = 11.84
SHW 4 EL. = 11.75
SHW 5 EL. = 12.01
NP 1 EL. = 12.56
NP 2 EL. = 11.51

WETLAND A
(0.12 Ac. M.O.L.)
SHW 1 EL. = 11.31
NP 1 EL. = 11.13

WETLAND REMOVED PER ARMY
CORE OF ENGINEERS NATIONWIDE
PERMIT #20 AND SHFWMD
PERMIT #43041424

RETAINING WALL

RETAINING WALL

FUTURE LOCATION OF
OUTFALL STRUCTURE

RETAINING WALL

RETAINING WALL

PINE AVE. NORTH

FOREST ROAD

EXISTING SIDEWALK
TO BE REMOVED

SOIL TRACKING
PREVENTION DEVICE

TEMPORARY CONSTRUCTION
ACCESS (SEE DETAIL SHEET)

EXISTING 6" PVC M.E.S.
TO BE REMOVED

SILT FENCE

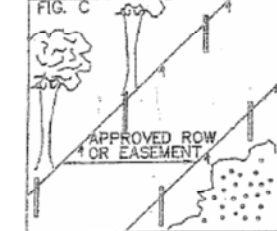
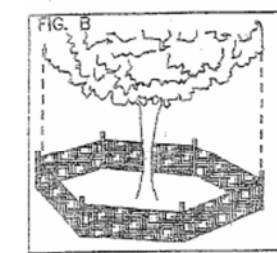
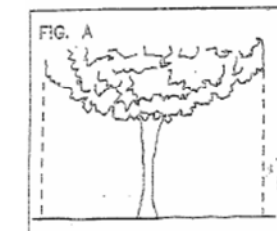
EXISTING 6" PVC M.E.S.
TO BE REMOVED

PROPERTY
BOUNDARY

PROTECTIVE BARRIER REQUIREMENTS AND SPECIFICATIONS FOR EXISTING TREES TO REMAIN

PROTECTIVE BARRIERS are used during land alteration and construction activities to protect trees and natural areas to be retained on a site.

PROTECTIVE BARRIERS must be erected around TREES to be retained within an area where land alteration and construction activities will occur as well as along NATURAL AREAS where such areas are adjacent to permitted land alteration or construction activities. A PROTECTIVE BARRIER must remain in place until the land alteration and construction activities are completed or until commencement of grade finishing and sodding. No ground disturbance must occur within the barricaded area. The following represents the County's minimum protective barrier specifications:



1. TREES - To restrict access into the area within the CANOPY DRIPLINE of a tree, a physical structure not less than 3 feet in height, comprised of wood or other suitable material, is placed around the tree at the CANOPY DRIPLINE, except where land alteration or construction activities are approved within the CANOPY DRIPLINE.

The CANOPY DRIPLINE of a tree is the imaginary, vertical line that extends downward from the outermost tips of the tree's branches to the ground. Fig. A.

BARRIER SPECIFICATIONS FOR TREES:

Four corner upright stakes of no less than 2" x 2" lumber connected by horizontal members of no less than 1" x 4" lumber, or upright stakes spaced at 5' intervals of no less than 2" x 2" lumber connected by silk screen fabric or material of comparable durability. Fig. B.

2. NATURAL AREAS - To restrict access into areas where land alteration and construction activities are not authorized a physical structure not less than 3 feet in height is placed along the perimeter of such areas.

BARRIER SPECIFICATIONS FOR NATURAL AREAS:

Upright stakes of no less than 2" x 2" lumber spaced no more than 25' apart and connected by heavy flagged vinyl plastic surveying tape at regular intervals of 5'-10'. Fig. C. Other methods of demarcation will be considered depending upon the characteristics of the site.

WHY A BARRIER

1. To protect all above ground portions of trees and other significant vegetation from mechanical damage.
2. To protect root systems from compaction.
3. To provide awareness of protected areas to equipment operators.

LEGEND

- TREE BARRICADE
- × TREES TO BE REMOVED
- SILT FENCE
- CYPRESS
- ▲ OAK
- ▲ PALM
- PINE
- SWEETGUM
- UNKNOWN
- WAX MYRTLE
- WILLOW

DEMOLITION NOTES:

1. CONTRACTOR TO DEMOLISH AND REMOVE ALL IMPROVEMENTS WITHIN LIMITS OF DEMOLITION SHOWN UNLESS OTHERWISE NOTED.
2. CONTRACTOR TO ESTABLISH AND PROPERLY FLAG PROPERTY LINES PRIOR TO DEMOLITION.
3. THE CONTRACTOR SHALL UTILIZE SUITABLE EROSION CONTROL DURING DEMOLITION AND ALL PHASES OF CONSTRUCTION. SEE GENERAL NOTES AND DETAILS.
4. THE CONTRACTOR IS RESPONSIBLE FOR THE DISPOSAL OF ALL DEMOLITION DEBRIS.
5. UTILITIES TO BE PLUGGED SHALL BE FILLED WITH A MINIMUM 1.0 CUBIC FT. OF NON SHRINK GROUT OR AS OTHERWISE APPROVED BY ENGINEER.
6. TREES SHOWN TO REMAIN SHALL MAINTAIN PROTECTIVE BARRIERS DURING DEMOLITION AND CONSTRUCTION. THESE BARRIERS SHALL BE IN ACCORDANCE WITH CURRENT CITY/COUNTY STANDARDS.
7. THE CONTRACTOR SHALL COORDINATE THE REMOVAL/RELOCATION OF EXISTING UTILITIES WITH THE OWNER OF SAID UTILITY. THIS SHALL INCLUDE WATER, SEWER, STORM DRAIN, GAS, CABLE TV, POWER AND TELEPHONE.
8. THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES PRIOR TO DEMOLITION AND WILL BE RESPONSIBLE FOR THE DAMAGE OF ANY ON-SITE OR OFF-SITE UTILITIES THAT ARE NOT A PART OF THIS PROJECT OR ARE NOT IDENTIFIED TO BE REMOVED.
9. THE CONTRACTOR SHALL BARRICADE THE SITE AND CONTROL TRAFFIC PER CURRENT FOOT TRAFFIC CONTROL STANDARDS.
10. REMOVAL OF ASBESTOS CONTAINING MATERIALS SHALL BE IN ACCORDANCE WITH THE REGULATORY STANDARDS AND RECOMMENDATIONS OUTLINED IN THE LIMITED ASBESTOS SURVEY REPORT PERFORMED FOR THIS SITE.
11. REMOVAL OF ALL EXISTING WATER METERS. DOUBLE CHECK VALVE ASSEMBLIES, AND GATE VALVES TO BE COORDINATED WITH THE WATER DEPT.
12. CONTRACTOR TO COORDINATE REMOVAL/RELOCATION OF EXISTING POWER POLES AND OVERHEAD WIRES.
13. REMOVE ALL FOUNDATIONS OF BUILDINGS AND SIGN POSTS TO BE DEMOLISHED.
14. CONTRACTOR IS RESPONSIBLE FOR THE PROPER OFFSITE DISPOSAL OF ALL SPOIL MATERIALS REMOVED FROM THE PROJECT SITE.
15. ANY WELLS ENCOUNTERED ON-SITE SHALL BE CAPPED BY A LICENSED WATER WELL CONTRACTOR IN ACCORDANCE WITH RULE 40D-3.3(12), F.A.C.
16. ALL DISTURBED AREAS IN THE RIGHT-OF-WAY SHALL BE SODDED.

TREE REMOVAL NOTES:

1. SITE WILL BE FILLED 2' TO 3'. TREES IN REAR YARD CANNOT BE SAVED.

-Z-

FINAL SITE PLANS

**WALDROP
ENGINEERING**

CIVIL ENGINEERING &
LAND DEVELOPMENT CONSULTANTS
9432 CAMDEN FIELD PARKWAY RIVERVIEW, FL 33575
P: 813-443-8252 F: 813-443-8255 EMAIL: info@waldropengineering.com

TUSCANY WOODS NORTH

CLIENT: TAYLOR MORRISON OF FLORIDA, INC.

CLEARING, TREE REMOVAL AND DEMOLITION PLAN

PLAN REVISIONS	REVISION	SUBMITTED	BID SET	NO. XXXXXX
1	06/12/14	REVISED PER SWFWMD AND CITY OF OLDSMAR COMMENTS		
2	07/09/14	REVISED PER CITY OF OLDSMAR COMMENTS		

0 20 40 80
SCALE IN FEET

FLORIDA CERTIFICATE OF AUTHORIZATION #6636

R. TRENT STEPHENSON, P.E.
FL. LICENSE NO. 99314

SET NUMBER: 377-01-01

SHEET: 04



WETLAND B

POND C
(0.05 Ac.)
TOB EL=15.3
DHW₂₅=14.8
DLW=14.1
BOTTOM=13.3
SHW=11.3

POND B
(0.32 Ac.)
TOB EL=15.3
DHW₂₅=14.8
DLW=14.1
BOTTOM=13.3
SHW=11.3

END 6 HT. MASONRY
FENCE AND BEGIN 6" HT.
METAL PICKET FENCE

L. MASONR

25' SIGHT
VISIBILITY
TRIANGLE

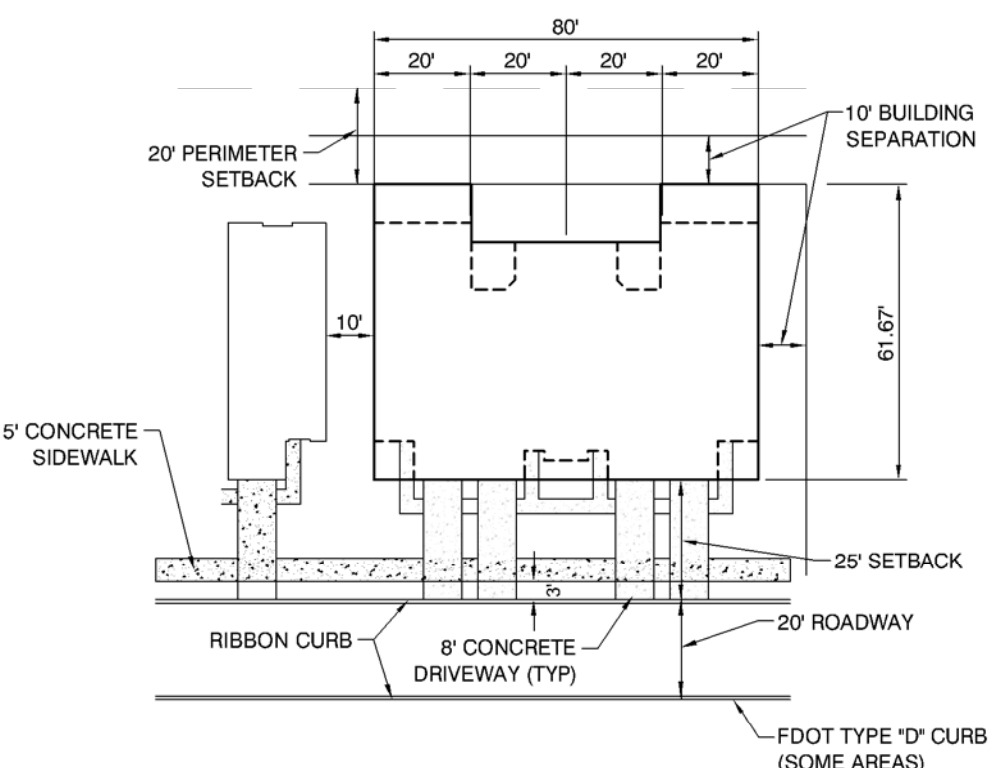
PINE AVE. NORTH

— 6 HT. MASONRY
COLUMN

— 6 HT. MASONRY
FENCE

SITE DATA TABLE	
FOLIO NUMBER	11-28-16-00000-430-0100
CURRENT ZONING	RPD W/ PUD OVERLAY
PROPOSED ZONING	RPD W/ PUD OVERLAY
FUTURE LAND USE	RLM AND P
MAX. ALLOWABLE GROSS DENSITY	60 UNITS/ACRE
MAX. NUMBER OF UNITS (PER PLAN)	54 (18 UNITS/ACRE)
LOT TYPE	SINGLE FAMILY ATTACHED
PROJECT AREA	9.88 AC.
RIGHT-OF-WAY	1.35 AC.
RESIDENTIAL TRACTS	1.77 AC.
WETLANDS	4.34 AC.
OTHER OPEN SPACE	2.42 AC.
MINIMUM YARD REQUIREMENTS:	
MULTIFAMILY	
FRONT YARD	25 FEET TO EDGE OF CURB
SIDE YARD	10 FEET SEPARATION BETWEEN BUILDINGS
REAR YARD	20 FEET
PERMETER	20 FEET
MINIMUM OPEN SPACE:	25%
FUNCTIONAL RECREATION AREA:	0.91 AC (5% OF OPEN SPACE)
MAXIMUM BUILDING HEIGHT:	35 FT.
MINIMUM LOT WIDTH:	20 FT.
MINIMUM LOT SIZE:	1,800 S.F.
MAX. ALLOWABLE LOT COVERAGE:	50%

CURVE TABLE							
Curve #	Pi Station	Radius	Delta	Degree	Chord Direction	Chord Length	PT Station
C4	114:01.55	114'	41.16°	52°01'24"	S43°03'34.50"E	40.93'	114:08.75
C5	124:67.33	35'	32.13°	52°33'38"	S70°41'51"01"E	31.01'	124:56.04
C6	114:42.30	290'	30.61°	6°01'39"	S22°53'07.25"E	30.49'	111:27.03
C9	126:49.49	490'	1.64°	0°11'29"	S19°46'33.44"E	1.64'	126:68.67
C10	140:21.49	140'	41.00°	16°06'46"	N07°44'46.82"E	41.76'	140:00.00
C11	104:62.80	66'	40.47°	35°06'12"	N88°30'42.22"E	39.84'	104:41.90



TYPICAL LOT LAYOUT



WALDROP
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FINAL SITE PLANS

TUSCANY WOODS NORTH

CLIENT: TAYLOR MORRISON OF FLORIDA, INC.

HORIZONTAL CONTROL PLAN

PLAN REVISIONS		REVISED PER SHIPWMD AND CITY OF GLDUSMARK COMMENTS	REVISED PER CITY OF GLDUSMARK COMMENTS
06/12/14	Δ		
08/11/14	Δ		

FLORIDA CERTIFICATE OF AUTHORIZATION #8636

R. TRENT STEPHENSON, P.E.
FL. LICENSE NO. 59514

SET NUMBER: 377-01-01

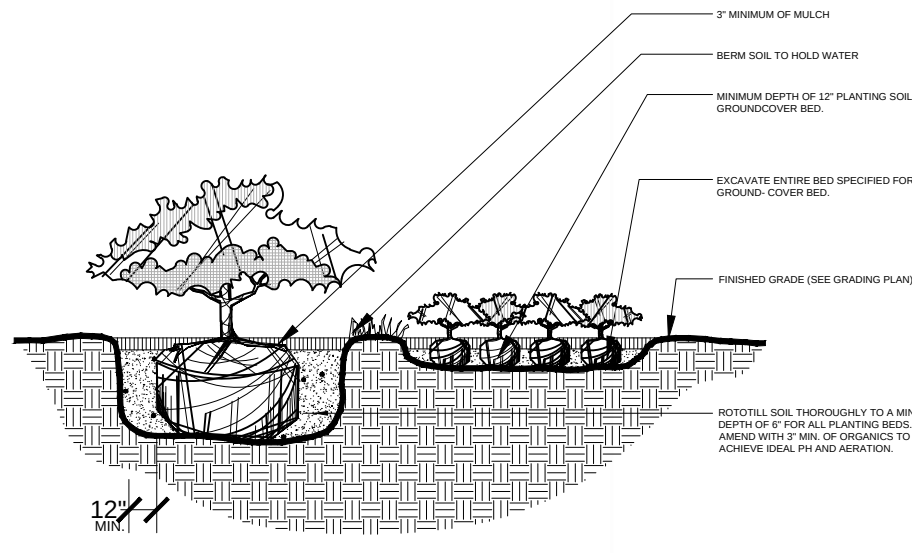
SHEET : 05

WETLAND BUFFER
ENHANCEMENT PLANTINGS

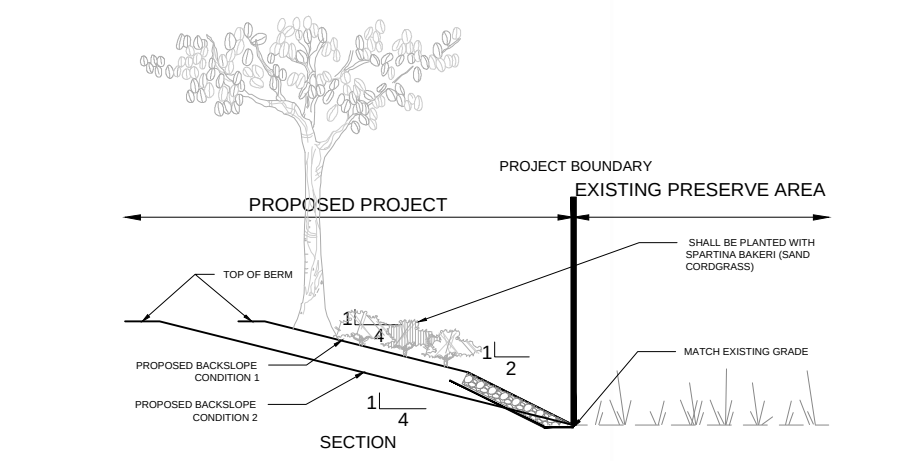
SPARTINA BAKERI - SAND CORDGRASS

QTY
300 = 1 GAL @ 3' O.C.

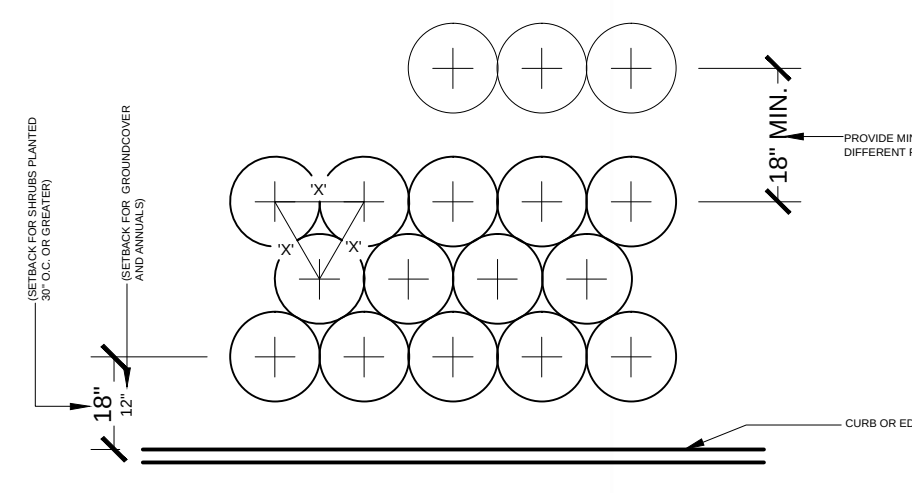
NOTE: BASED ON SITE CONDITIONS AND ACTUAL WETLAND AREAS SPARTINA SHALL BE PLANTED WHERE FEASIBLE. MIN. AREA SHALL BE EQUAL (0.06 ACRES) (0.06 ACRES) TO ACCOUNT FOR WETLAND BUFFER IMPACTS.



E SHRUB AND GROUND COVER INSTALLATION
SCALE: N.T.S.



C SLOPE PLANTING ADJACENT TO PRESERVE AREAS
SCALE: N.T.S.



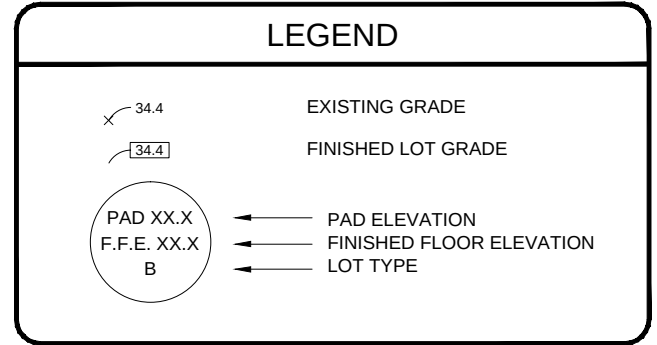
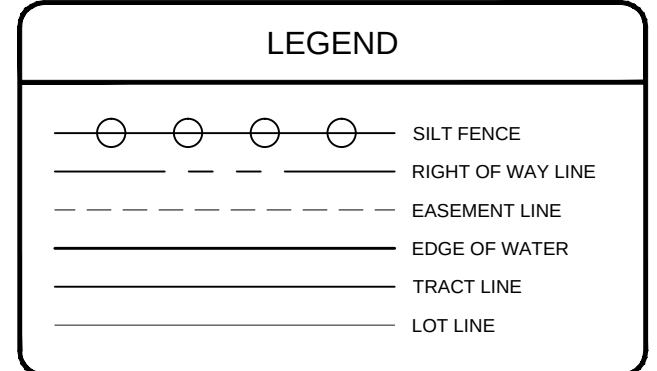
B TYPICAL PLANT SPACING
SCALE: N.T.S.

Transferred to Operation

NOTES

1.) THE PROPERTY DESCRIBED HEREON IS LOCATED IN ZONE "X" PER FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP; COMMUNITY PANEL NO. 1202500091 G, (DATED SEPTEMBER 3, 2003)

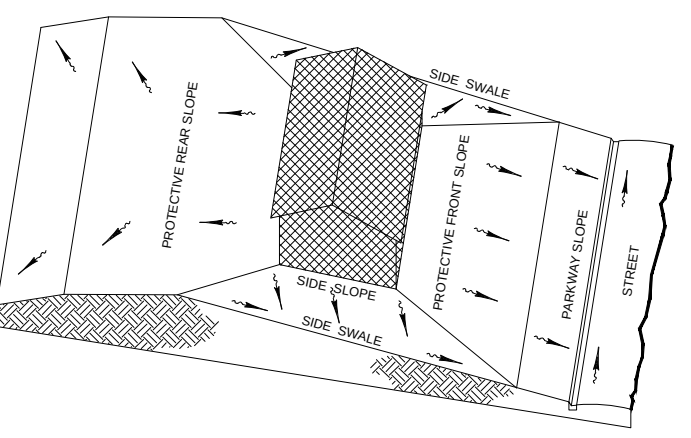
2.) ALL SURVEY INFORMATION IS IN NAVD 83.



ADA GRADING NOTE:

ALL SIDEWALKS AND ADA PATHS ARE TO BE FIELD CHECKED WITH A SMART LEVEL DURING CONSTRUCTION. MAXIMUM ADA CROSS SLOPE IS 2%. MAXIMUM ADA LONGITUDINAL SLOPE IS 5%. CONTACT WALDROP ENGINEERING IF YOU HAVE ANY QUESTIONS.

- NOTES:
- LOT GRADE PRIOR TO BUILDING CONSTRUCTION IS FINISHED FLOOR MINUS 8".
 - LOT GRADE PRIOR TO BUILDING CONSTRUCTION SHALL EXTEND 5' BEYOND BUILDING/SIDEWALK PERIMETER.
 - MINIMUM SLOPE FOR SIDE YARD SWALE SHALL BE 1%. SLOPES ARE INDICATED IN AREAS WHERE MIN. SLOPE IS NOT ATTAINED.
 - ALL GRADES ARE TO TOP OF SOD.
 - ELEVATIONS ARE BASED ON NAVD 83.
 - REAR ROOF DRAINAGE FOR LOTS 1-25 SHALL DRAIN TOWARDS THE FRONT OF THE LOT VIA GUTTER SYSTEM AWAY FROM THE WETLAND. REAR ROOF DRAINAGE FOR LOTS AGAINST PONDS WILL DRAIN TOWARDS THE POND.



RECORD DATA
PROVIDED BY
GEOPOINT
SURVEYING,
INC.

RECORD DRAWING LEGEND

42.00	PROPOSED/DESIGN ELEVATION OR DIMENSION LINED THROUGH, "RECORD" ELEVATION OR DIMENSION WRITTEN IN.
42.07	INDICATES RECORD ELEVATION, DIMENSION, SLOPE, et cetera.
54.8	INDICATES "RECORD" ITEM NUMBER
700	INDICATES "RECORD" ITEM DESCRIPTION

TUSCANY WOODS NORTH
"RECORD DRAWINGS"

FACILITIES SHOWN HEREON HAVE BEEN, TO THE BEST OF MY KNOWLEDGE, CONSTRUCTED IN SUBSTANTIAL ACCORDANCE WITH APPROVED PLANS, SPECIFICATIONS AND MODIFICATIONS FOR THIS PROJECT. VERIFICATION IS BASED ON PERIODIC CONSTRUCTION OBSERVATION AND SURVEY NOTATIONS SHOWN ON PLANS. SURVEYED DIMENSIONS AND ELEVATIONS SHOWN AS RECORD INFORMATION HAVE BEEN FIELD VERIFIED.

LAST DATE OF FIELD SURVEY: 12/09/2014

WALDROP ENGINEERING

CIVIL ENGINEERING & LAND DEVELOPMENT CONSULTANTS

9432 CAMDEN FIELD PARKWAY OVERVIEW, FL 33575
P: 813-443-5252 F: 813-443-5255 EMAIL: info@waldropengineering.com

FINAL SITE PLANS

TUSCANY WOODS NORTH

CLIENT: TAYLOR MORRISON OF FLORIDA, INC.
DRAINAGE, PAVING AND GRADING SITE PLAN

PLAN REVISIONS	REVISION	SUBMITTED	REVISED	BY	DATE	COMMENTS
1	06/12/14	REVISED PER SWFMD AND CITY OF OLDSMAR COMMENTS	07/24/14	REVISED PER SWFMD COMMENTS	08/11/14	REVISED PER CITY COMMENTS
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FINAL SITE PLANS

TUSCANY WOODS NORTH

CLIENT: TAYLOR MORRISON OF FLORIDA, INC.

CROSS SECTIONS

PLAN REVISIONS	REVISED PER SURVEY AND CITY OF OLSBAMA COMMENTS	
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02040

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SCALE IN FEET

FLOIDA CERTIFICATE OF AUTHORIZATION #8636

R. TRENT STEPHENSON, P.E.
FL LICENSE NO. 39514

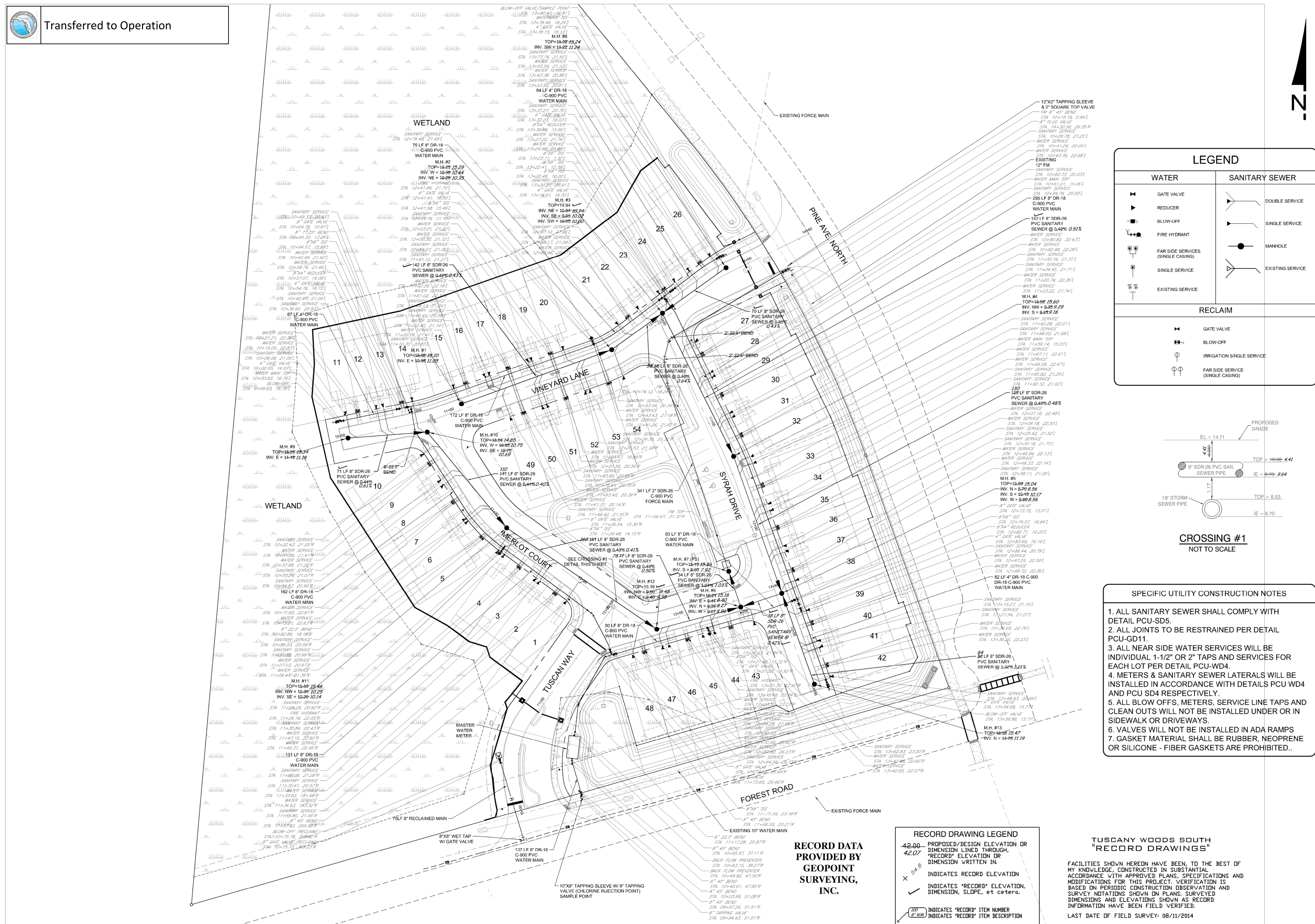
SET NUMBER: 377-01-01

SHEET : 07

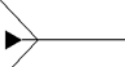
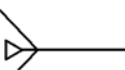


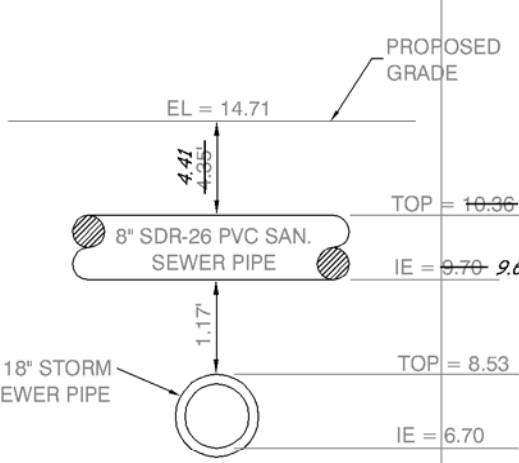
Transferred to Operation

U:\37401 Tuscany Woods\AutoCAD\37401.dwg Construction Plans\North Current Plans\3740108.dwg
3/13/2015 2:25:16 PM



-Z-

LEGEND			
WATER		SANITARY SEWER	
	GATE VALVE		DOUBLE SERVICE
	REDUCER		SINGLE SERVICE
	BLOW-OFF		MANHOLE
	FIRE HYDRANT		EXISTING SERVICE
	FAR SIDE SERVICES (SINGLE CASINGS)		
	SINGLE SERVICE		
	EXISTING SERVICE		
RECLAIM			
	GATE VALVE		
	BLOW-OFF		
	IRRIGATION SINGLE SERVICE		
	FAR SIDE SERVICE (SINGLE CASINGS)		



CROSSING #1
NOT TO SCALE

- SPECIFIC UTILITY CONSTRUCTION NOTES**
1. ALL SANITARY SEWER SHALL COMPLY WITH DETAIL PCU-S05.
 2. ALL JOINTS TO BE RESTRAINED PER DETAIL PCU-GD11.
 3. ALL NEAR SIDE WATER SERVICES WILL BE INDIVIDUAL 1-1/2" OR 2" TAPS AND SERVICES FOR EACH LOT PER DETAIL PCU-WD4.
 4. METERS & SANITARY SEWER LATERALS WILL BE INSTALLED IN ACCORDANCE WITH DETAILS PCU WD4 AND PCU SD4 RESPECTIVELY.
 5. ALL BLOW OFFS, METERS, SERVICE LINE TAPS AND CLEAN OUTS WILL NOT BE INSTALLED UNDER OR IN SIDEWALK OR DRIVEWAYS.
 6. VALVES WILL NOT BE INSTALLED IN ADA RAMPS
 7. GASKET MATERIAL SHALL BE RUBBER, NEOPRENE OR SILICONE - FIBER GASKETS ARE PROHIBITED..

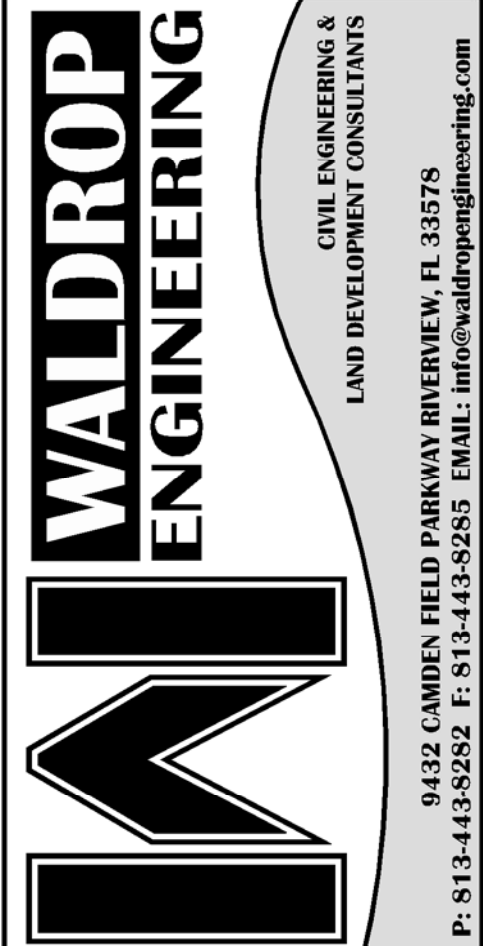
RECORD DRAWING LEGEND	
	PROPOSED/DESIGN ELEVATION OR DIMENSION LINED THROUGH, "RECORD" ELEVATION OR DIMENSION WRITTEN IN
	INDICATES RECORD ELEVATION
	INDICATES "RECORD" ELEVATION, DIMENSION, SLOPE, et cetera.
	INDICATES "RECORD" ITEM NUMBER
	INDICATES "RECORD" ITEM DESCRIPTION

**TUSCANY WOODS SOUTH
"RECORD DRAWINGS"**

FACILITIES SHOWN HEREON HAVE BEEN, TO THE BEST OF MY KNOWLEDGE, CONSTRUCTED IN SUBSTANTIAL ACCORDANCE WITH APPROVED PLANS, SPECIFICATIONS AND MODIFICATIONS FOR THIS PROJECT. VERIFICATION IS BASED ON PERIODIC CONSTRUCTION OBSERVATION AND SURVEY NOTATIONS SHOWN ON PLANS. SURVEYED DIMENSIONS AND ELEVATIONS SHOWN AS RECORD INFORMATION HAVE BEEN FIELD VERIFIED.

LAST DATE OF FIELD SURVEY: 08/11/2014

RECORD DATA
PROVIDED BY
GEOPOINT
SURVEYING,
INC.



TUSCANY WOODS NORTH

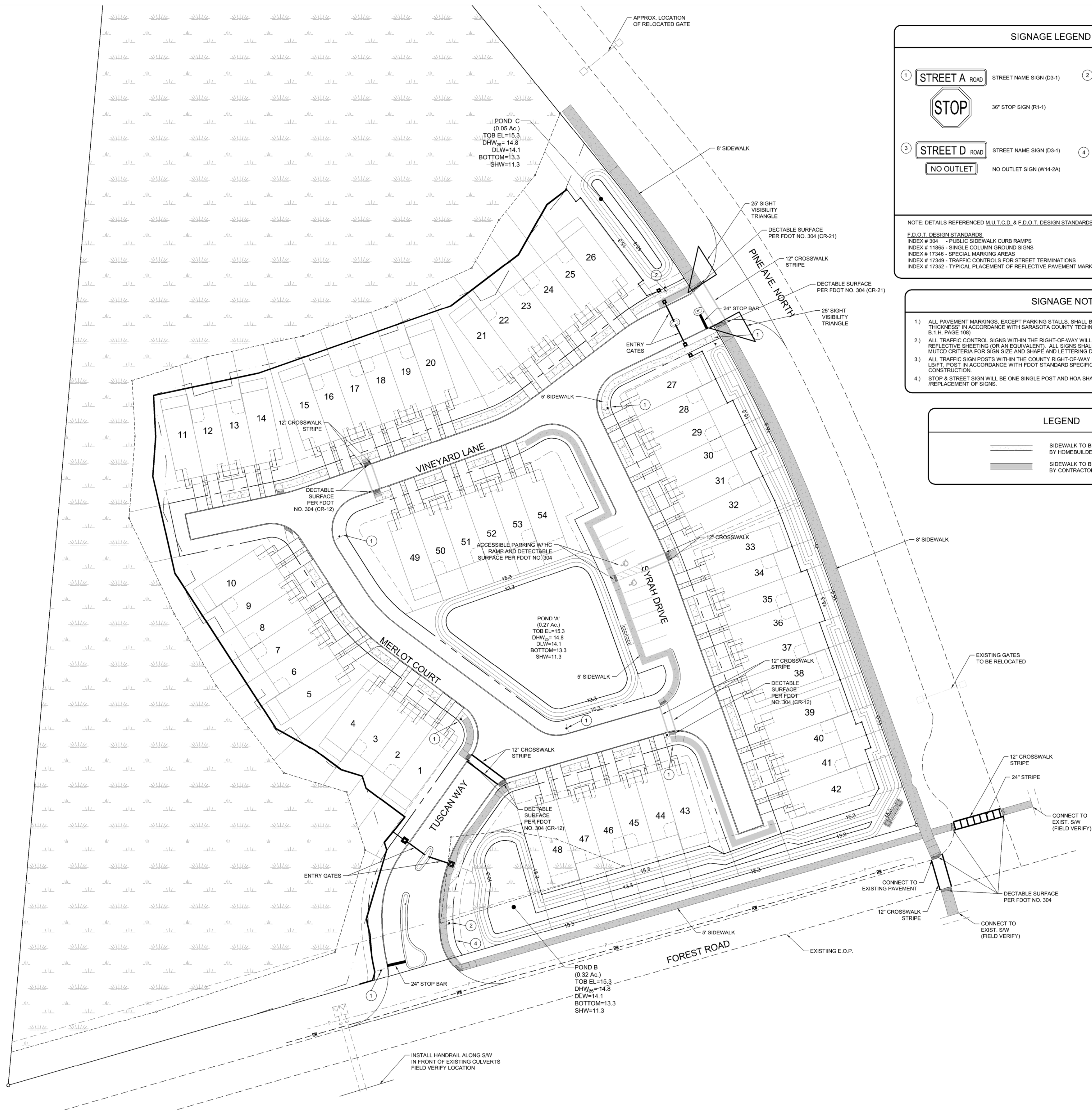
CLIENT: TAYLOR MORRISON OF FLORIDA, INC.

WATER AND SEWER PLAN

PLAN REVISIONS	
REV#	DESCRIPTION
01	ISSUED FOR PERMITS
02	REVISED PER SWFWMD AND CITY OF CLERMONT COMMENTS
03	ADD RECORD INFORMATION
FLORIDA CERTIFICATE OF AUTHORIZATION #0636	
R. TRENT STEPHENSON, P.E. FLORIDA LICENSE NO. 99314	
SET NUMBER:	377-01-01
SHEET:	08



Transferred to Operation



SIGNAGE LEGEND

1. **STREET A ROAD** STREET NAME SIGN (D3-1)
STOP 36" STOP SIGN (R1-1)

2. **SPEED LIMIT 25** SPEED LIMIT SIGN (R2-1)
W/ AN "UNLESS OTHERWISE POSTED" PLAQUE

3. **STREET D ROAD** STREET NAME SIGN (D3-1)
NO OUTLET NO OUTLET SIGN (W14-3A)

4. **UNLESS OTHERWISE POSTED** (R4-7)
(DIVIDED MEDIAN SIGN)

NOTE: DETAILS REFERENCED M.U.T.C.D. & F.D.O.T. DESIGN STANDARDS.

F.D.O.T. DESIGN STANDARDS:
INDEX # 304 - PUBLIC SIDEWALK CURB RAMPS
INDEX # 11865 - SINGLE COLUMN GROUND SIGNS
INDEX # 17346 - SPECIAL MARKING AREAS
INDEX # 17349 - TRAFFIC CONTROLS FOR STREET TERMINATIONS
INDEX # 17352 - TYPICAL PLACEMENT OF REFLECTIVE PAVEMENT MARKERS

M.U.T.C.D.
SECTION 2B.04 - STOP SIGN (R1-1)
SECTION 2D.38 - STREET NAME SIGN (D3-1)
SECTION 3C - OBJECT MARKERS

- SIGNAGE NOTES**
1. ALL PAVEMENT MARKINGS, EXCEPT PARKING STALLS, SHALL BE "ALKYD THERMOPLASTIC 90 MILS IN THICKNESS" IN ACCORDANCE WITH SARASOTA COUNTY TECHNICAL PROVISIONS TP 711, (DTM, SECTION B.1.H, PAGE 108)
 2. ALL TRAFFIC CONTROL SIGNS WITHIN THE RIGHT-OF-WAY WILL BE MANUFACTURED USING DIAMOND GRADE REFLECTIVE SHEETING (OR AN EQUIVALENT). ALL SIGNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH MUTCD CRITERIA FOR SIGN SIZE AND SHAPE AND LETTERING DIMENSIONS.
 3. ALL TRAFFIC SIGN POSTS WITHIN THE COUNTY RIGHT-OF-WAY SHALL BE U CHANNEL GALVANIZED, 2.5 LB/FT. POST IN ACCORDANCE WITH FOOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
 4. STOP & STREET SIGN WILL BE ONE SINGLE POST AND HOA SHALL BE RESPONSIBLE FOR MAINTAINING /REPLACEMENT OF SIGNS.

LEGEND

— SIDEWALK TO BE CONSTRUCTED BY HOMEBUILDER

— SIDEWALK TO BE CONSTRUCTED BY CONTRACTOR

N

FINAL SITE PLANS

TUSCANY WOODS NORTH

CLIENT: TAYLOR MORRISON OF FLORIDA, INC.

SIDEWALK AND PAVEMENT MARKING PLAN

PLAN REVISIONS	REVISED PER SWFMD AND CITY OF CLDSHAW COMMENTS	REVISED PER CITY OF CLDSHAW COMMENTS
06/12/14	REVISED PER SWFMD AND CITY OF CLDSHAW COMMENTS	REVISED PER CITY OF CLDSHAW COMMENTS
07/08/14	REVISED PER SWFMD AND CITY OF CLDSHAW COMMENTS	REVISED PER CITY OF CLDSHAW COMMENTS

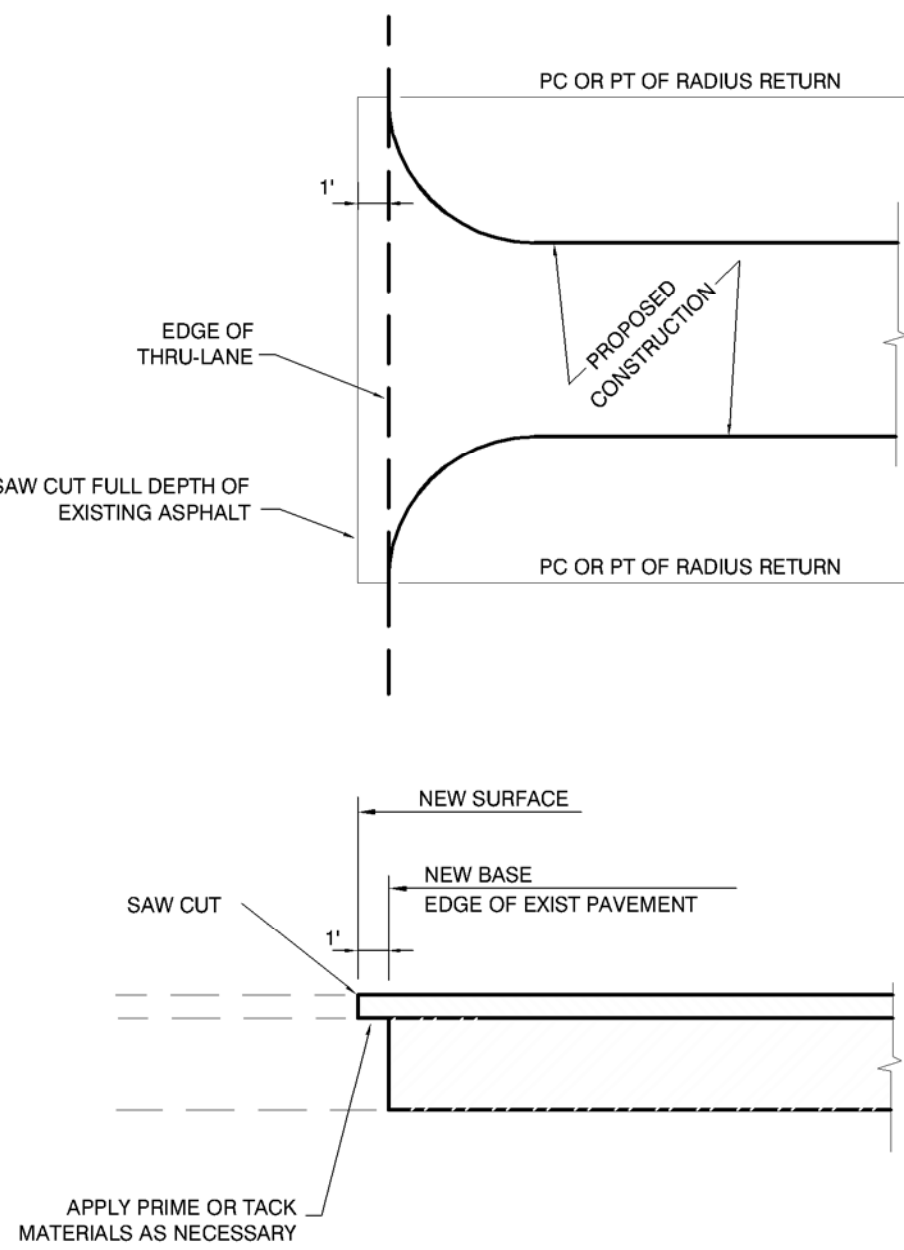
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SCALE IN FEET

FLORIDA CERTIFICATE OF AUTHORIZATION #0606

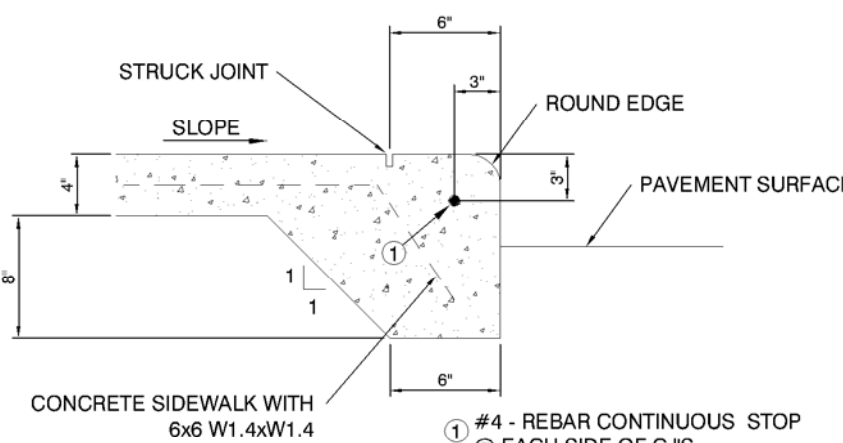
R. TRENT STEPHENSON, P.E.
FL. LICENSE NO. 9934

SET NUMBER: 377-01-01

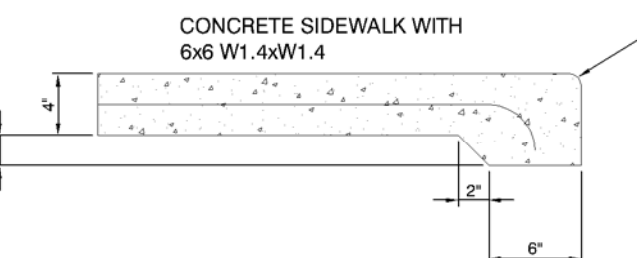
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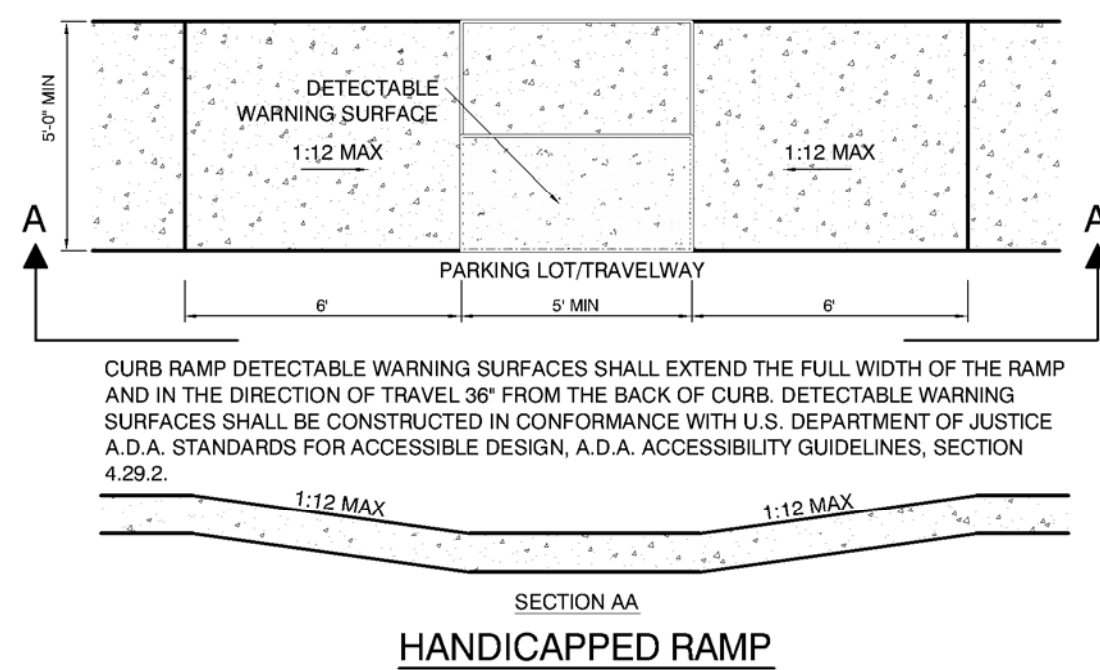
CONNECTION DETAIL
AT EXISTING ASPHALT PAVEMENTS



INTEGRAL CURB & SIDEWALK



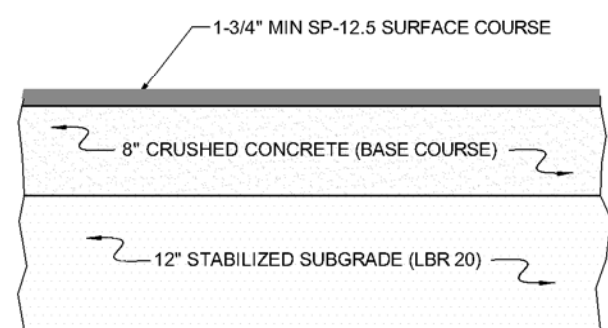
THICKENED SIDEWALK INTERFACE



HANDICAPPED RAMP

PUBLIC ROAD PAVEMENT DESIGN			
LAYER TYPE	STRUCTURAL COEFFICIENT	PROPOSED THICKNESS (IN)	SN
SP-9.5 FINE, TRAFFIC LEVEL "C"	0.44	1.50	0.66
BASE (COMPACTED 98% OF AASHTO T-190) (MIN. 100 LBR)	0.16	8.00	1.44
COMPACTED SUB-BASE (LBR 40 MIN. STABILIZED)	0.08	12.00	0.72
TOTAL PROPOSED SN			2.82 - OK
MINIMUM ALLOWED SN FOR LOCAL ROAD			2.30

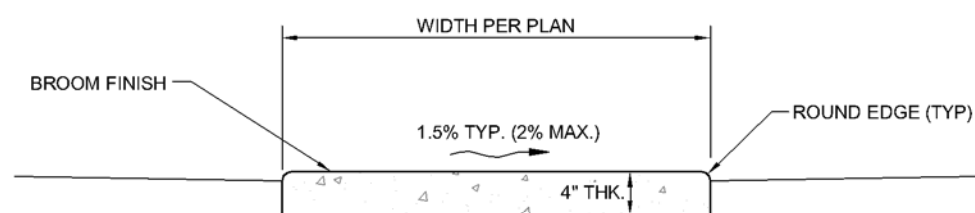
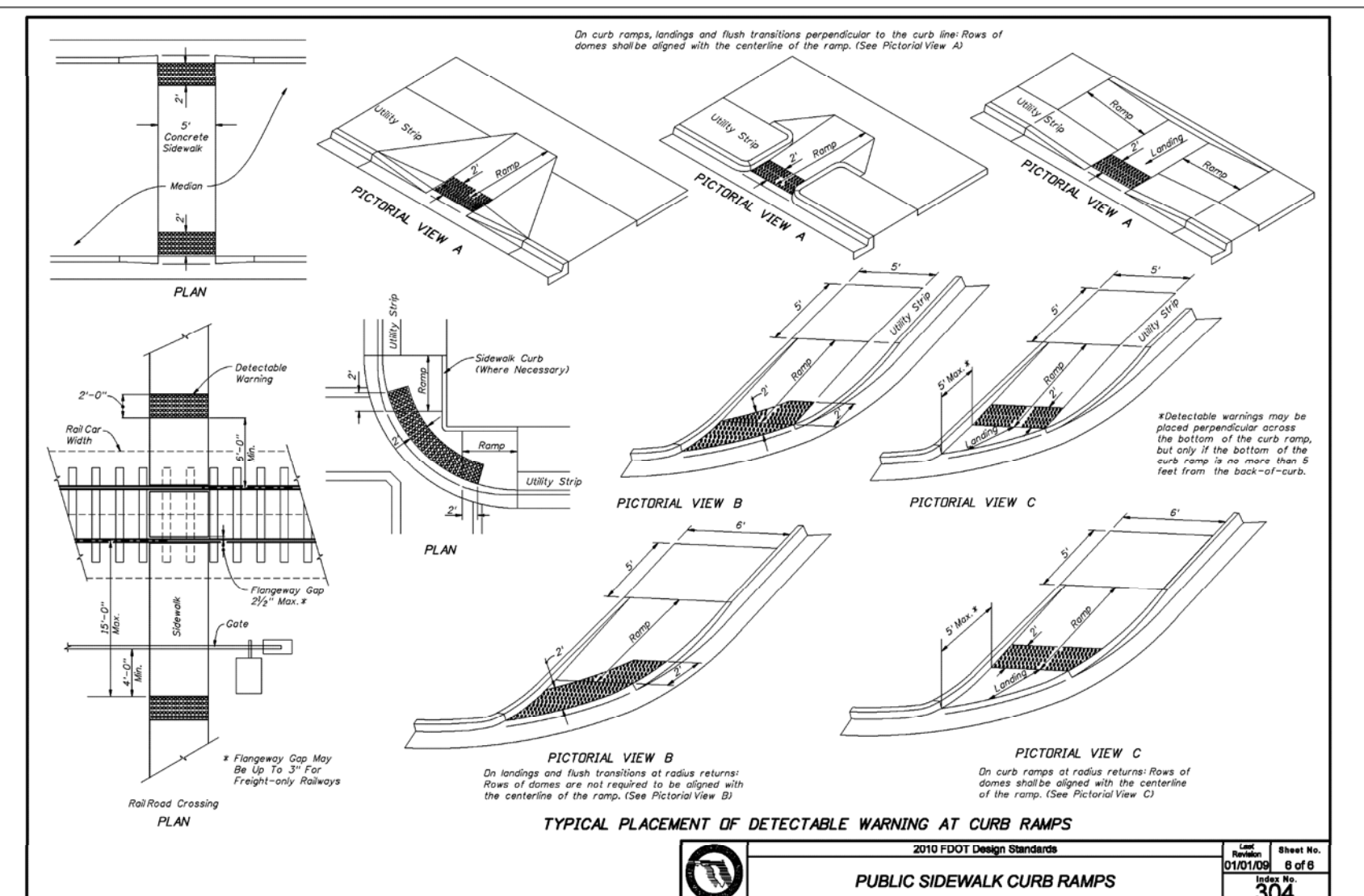
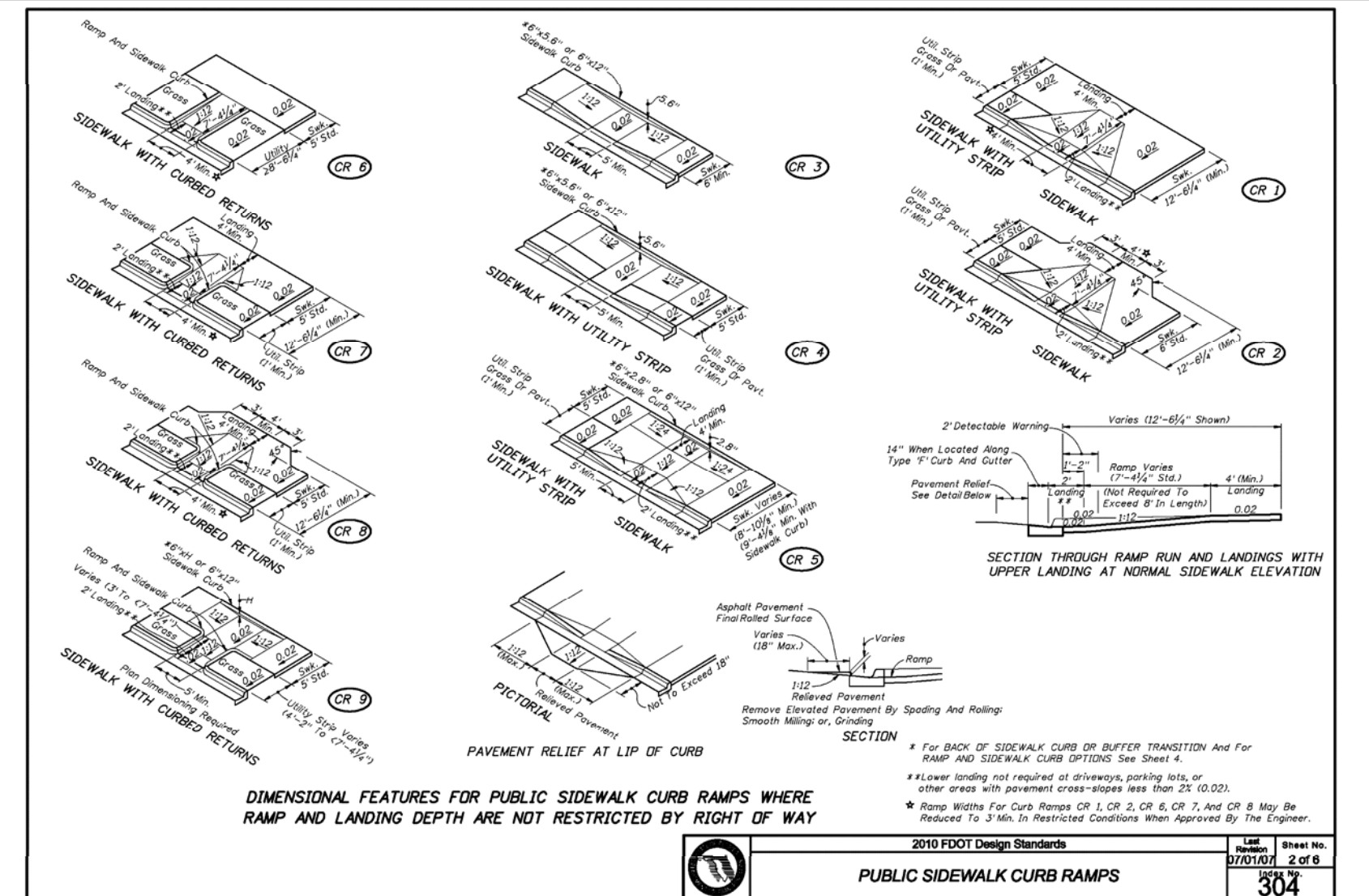
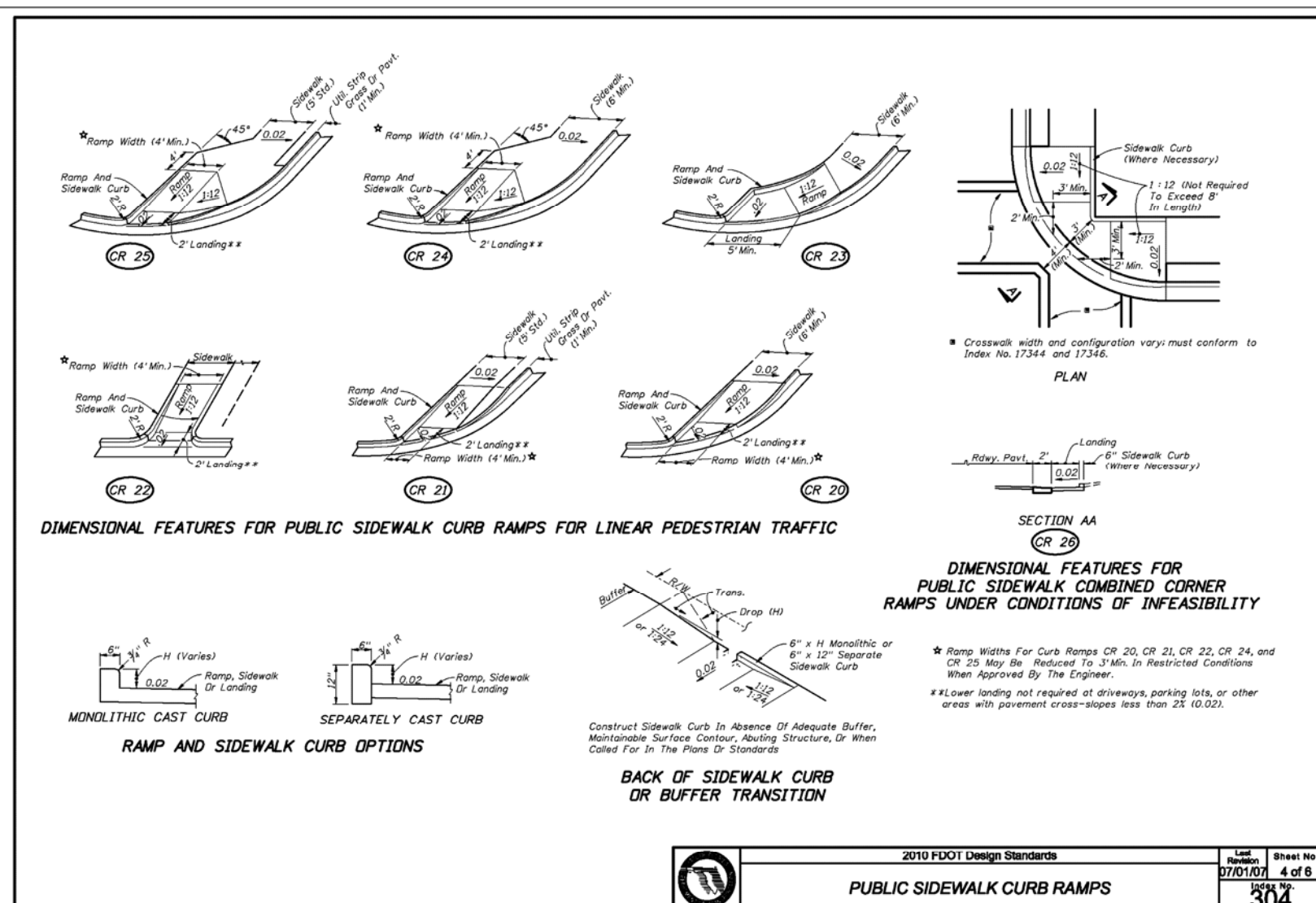
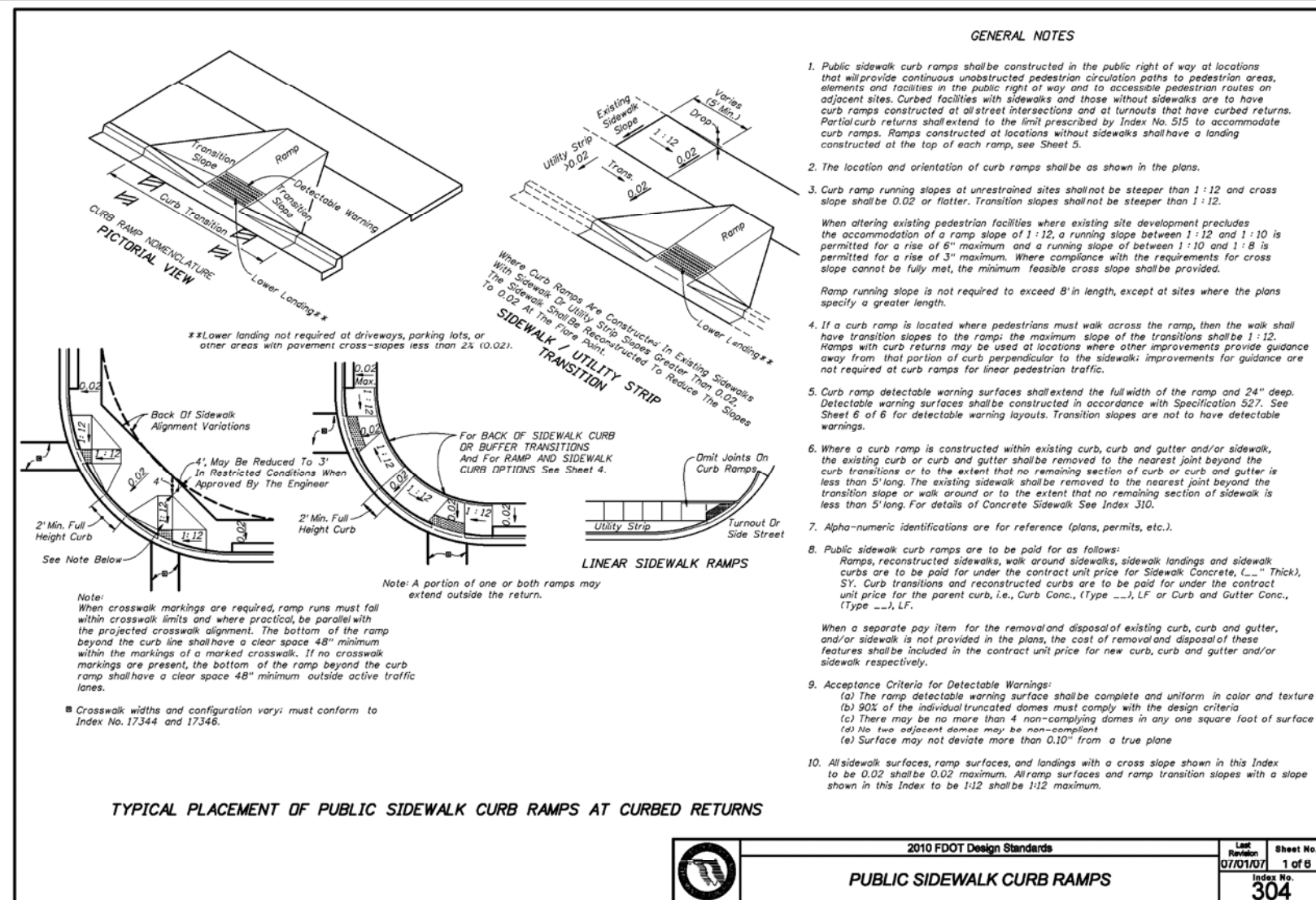
NOTE:
PAVEMENT DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE HILLSBOROUGH COUNTY
TRANSPORTATION MANUAL FOR SUBDIVISIONS AND SITE DEVELOPMENT PROJECTS, DATED 8-1-2003.



MATERIAL NOTES:

- 1.) 8" CRUSHED CONCRETE BASE, LBR 150 PRIMED AND COMPACTED TO 98% OF MAX. DENSITY (DETERMINED BY AASHTO T-180)
- 2.) 12" COMPACTED SUBGRADE, MIN. LBR 20, COMPACTED TO 98% MOD. PROCTOR MAX. DRY DENSITY (ASTM D-1557)
- 3.) STABILIZED SUBGRADE UNDER CURB ONLY, TO BE LBR 40
- 4.) WHEN NO CURB IS PROPOSED CRUSH CONCRETE TO EXTEND 6 INCHES BEYOND EDGE OF PAVEMENT

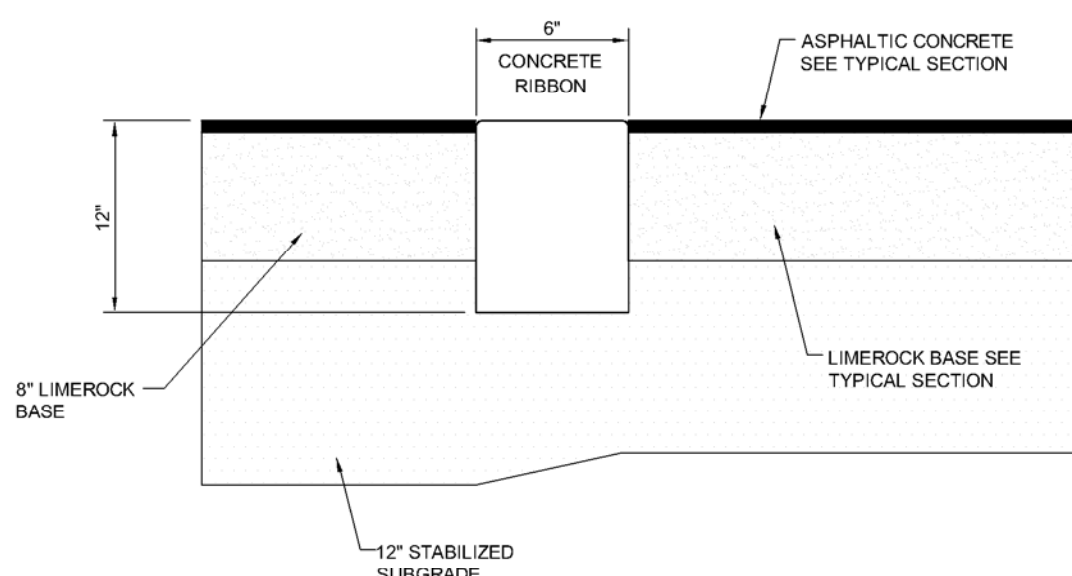
TYPICAL PAVING SECTION
(FOR INTERNAL ROADS)
N.T.S.



NOTES:

- 1) SIDEWALK SHALL BE CONSTRUCTED IN CONFORMANCE WITH FOOT STANDARD INDEX 310 AND STANDARD SPECIFICATION 222 AND CORRESPONDING STANDARDS.
- 2) COMPACT FILL AREAS TO MINIMUM 95 % OF AASHTO 199 DENSITY.
- 3) SIDEWALK SHALL HAVE CONTRACTION JOINTS SPACED EQUALLY TO THE SIDEWALK WIDTH AND HAVE EXPANSION JOINTS EVERY 120' MAXIMUM.
- 4) CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI IN 28 DAYS.
- 5) SIDEWALKS SHALL HAVE A MAXIMUM RAMPING SLOPE OF 1:20 (5%) AND A MAXIMUM CROSS SLOPE OF 1:50 (2%) PER ADA STANDARDS FOR ACCESSIBLE DESIGN SECTION 4.3.
- 6) CURB RAMPS SHALL BE CONSTRUCTED IN CONFORMANCE WITH ADA STANDARDS FOR ACCESSIBLE DESIGN SECTION 4.7 AND FOOT STANDARD INDEX 304.

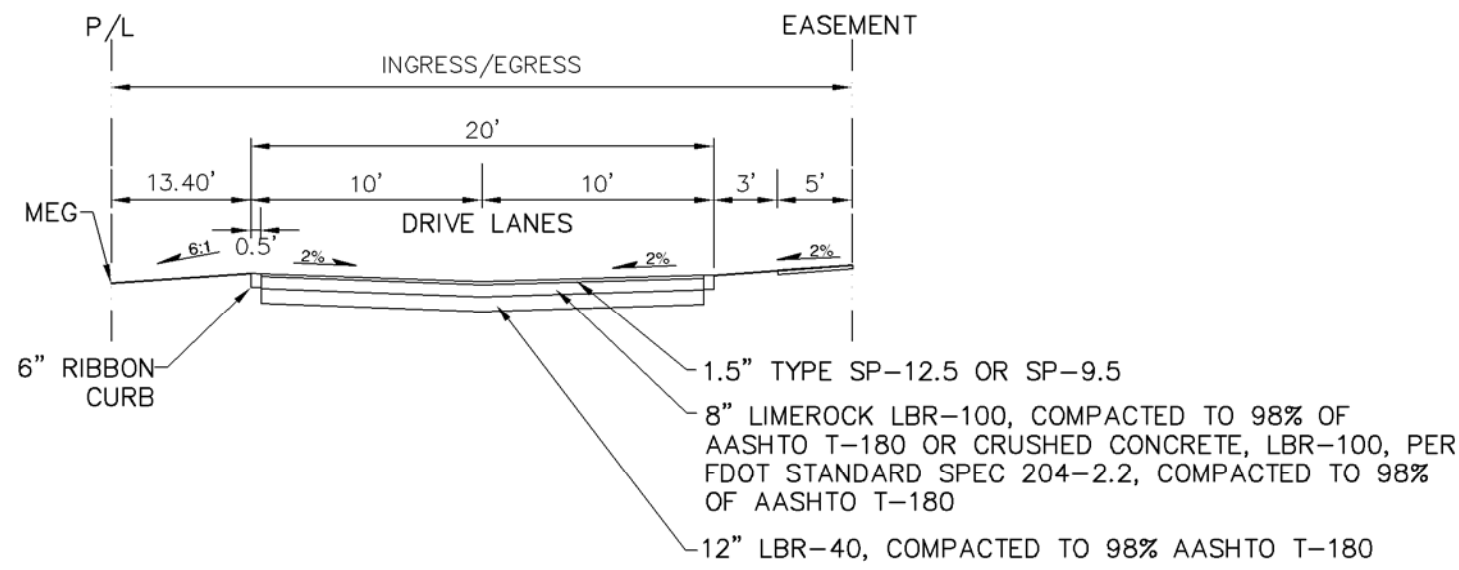
TYPICAL CONCRETE SIDEWALK DETAIL



CONCRETE RIBBON NOTES:

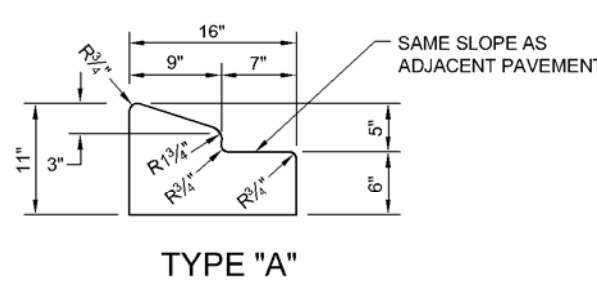
1. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3,000 P.S.I. IN 28 DAYS UNLESS OTHERWISE NOTED.
2. INSTALL PAVER BRICKS PER MANUFACTURER'S SPECIFICATIONS.
3. CURB SHALL HAVE EXPANSION JOINTS INSTALLED AT ALL INLETS AND EVERY $\pm 50'$.

CONCRETE RIBBON CURB DETAIL



TYPICAL PRIVATE ROAD SECTION

N.T.S.



TYPE "A"

CONCRETE CURB NOTES:

- 1.) CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3,000 P.S.I. IN 28 DAYS UNLESS OTHERWISE NOTED.
- 2.) CURB SHALL BE CONSTRUCTED IN CONFORMANCE WITH FDOT INDEX 300
- 3.) CURB SHALL HAVE EXPANSION JOINTS INSTALLED AT ALL INLETS AND EVERY +500'.

CURB AND GUTTER DETAILS

N.T.S.

FINAL SITE PLANS

TUSCANY WOODS NORTH

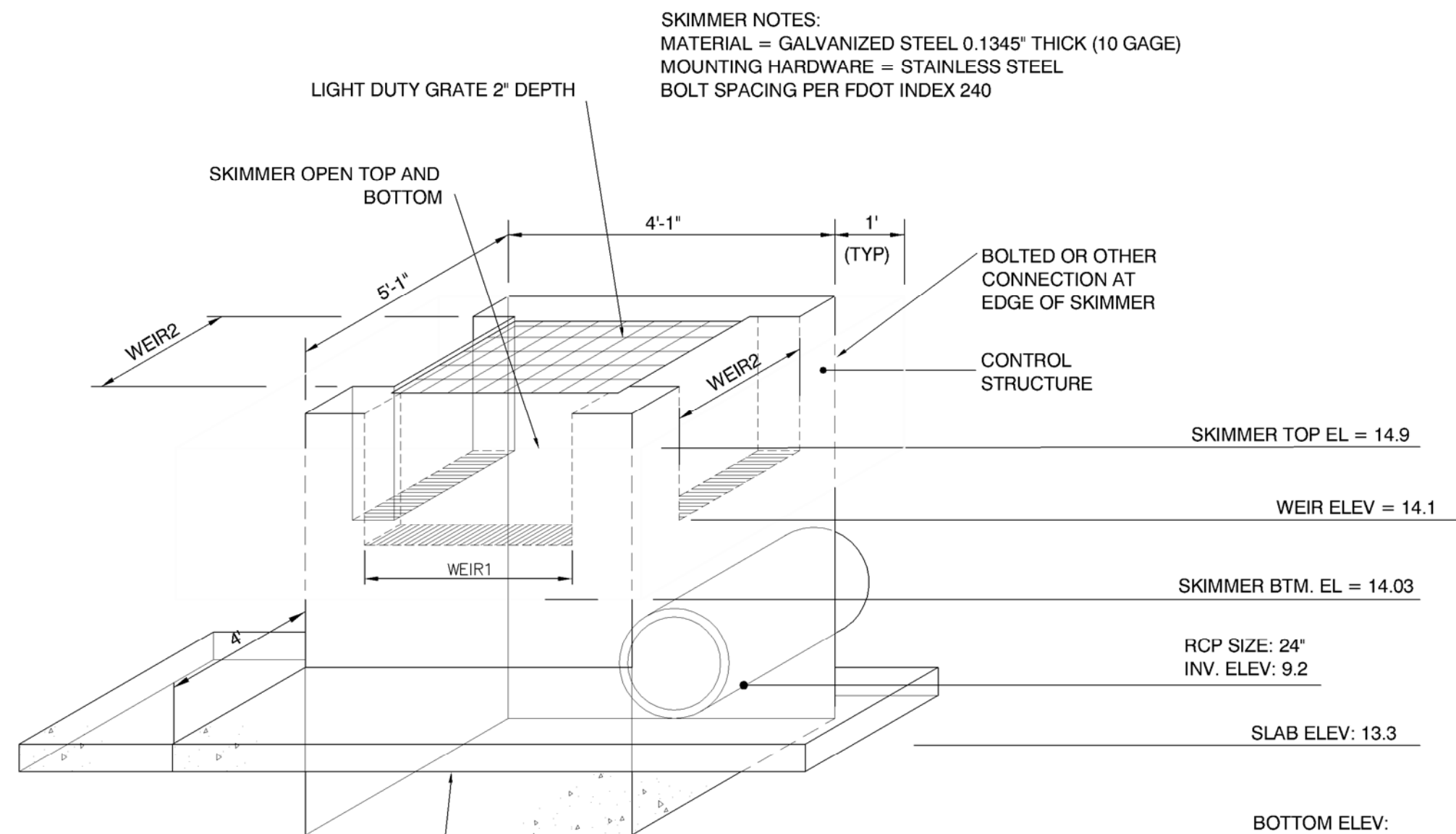
CLIENT: TAYLOR MORRISON OF FLORIDA, INC.

PAVING DETAILS

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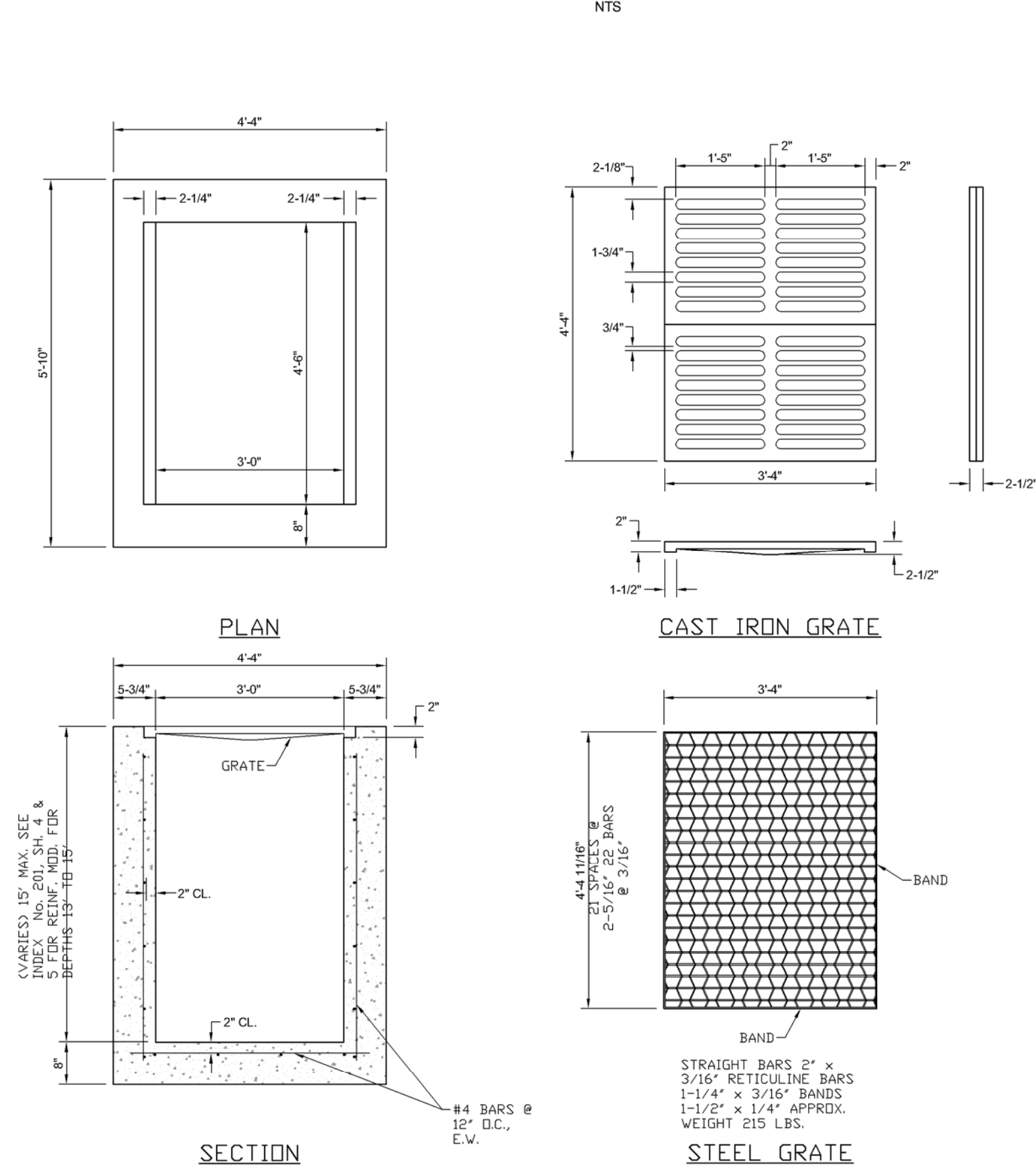


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ITEM	ELEVATION	WIDTH (ft)
GRATE	14.9	-
SKIMMER TOP	14.9	-
WEIR1 x 2	14.1	4'
WEIR2 x 1	14.1	2'
SKIMMER BTM.	14.03	-
SLAB TOP	13.3	-

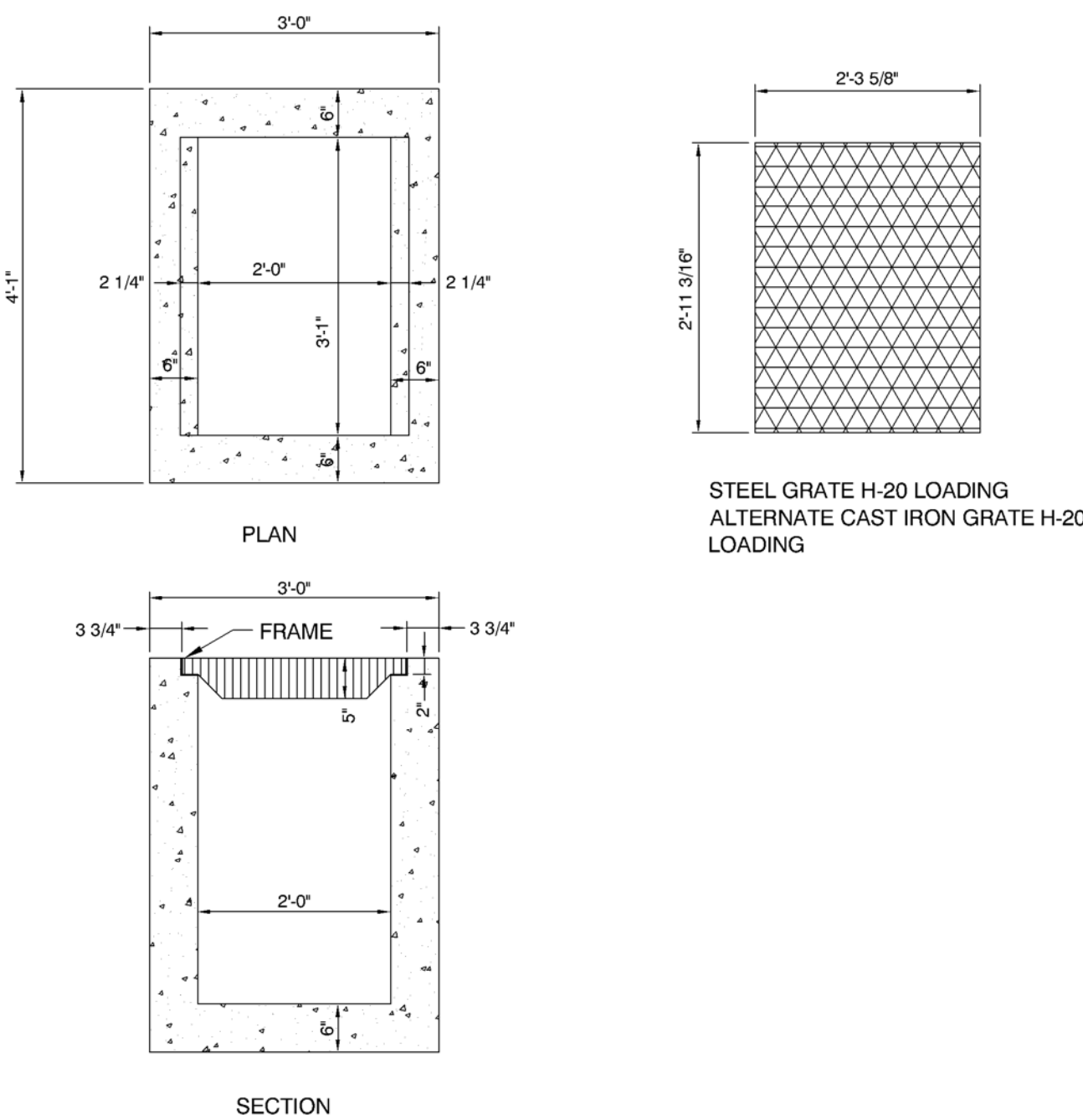
MODIFIED TYPE "D" INLET OVERFLOW CONTROL STRUCTURE



TYPE "E" GRATE INLET DETAIL

(REF. F.D.O.T. No. 232)

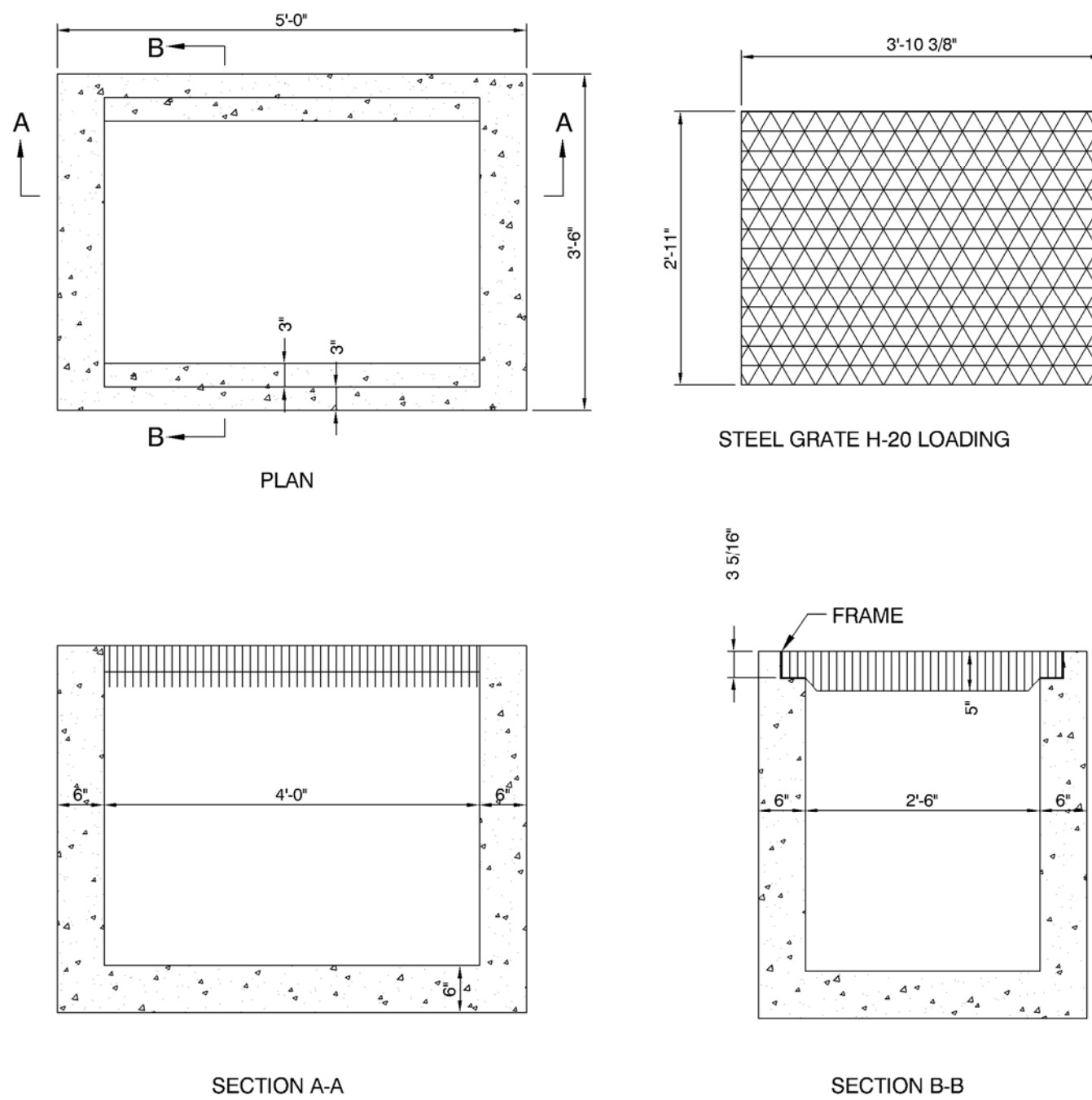
N.T.S.



NOTES:
FOR ADDITIONAL DETAILS SEE FDOT INDEX NO 201 & 232. MODIFIED
FOR H-20 LOADING

FDOT INLET TYPE "C"

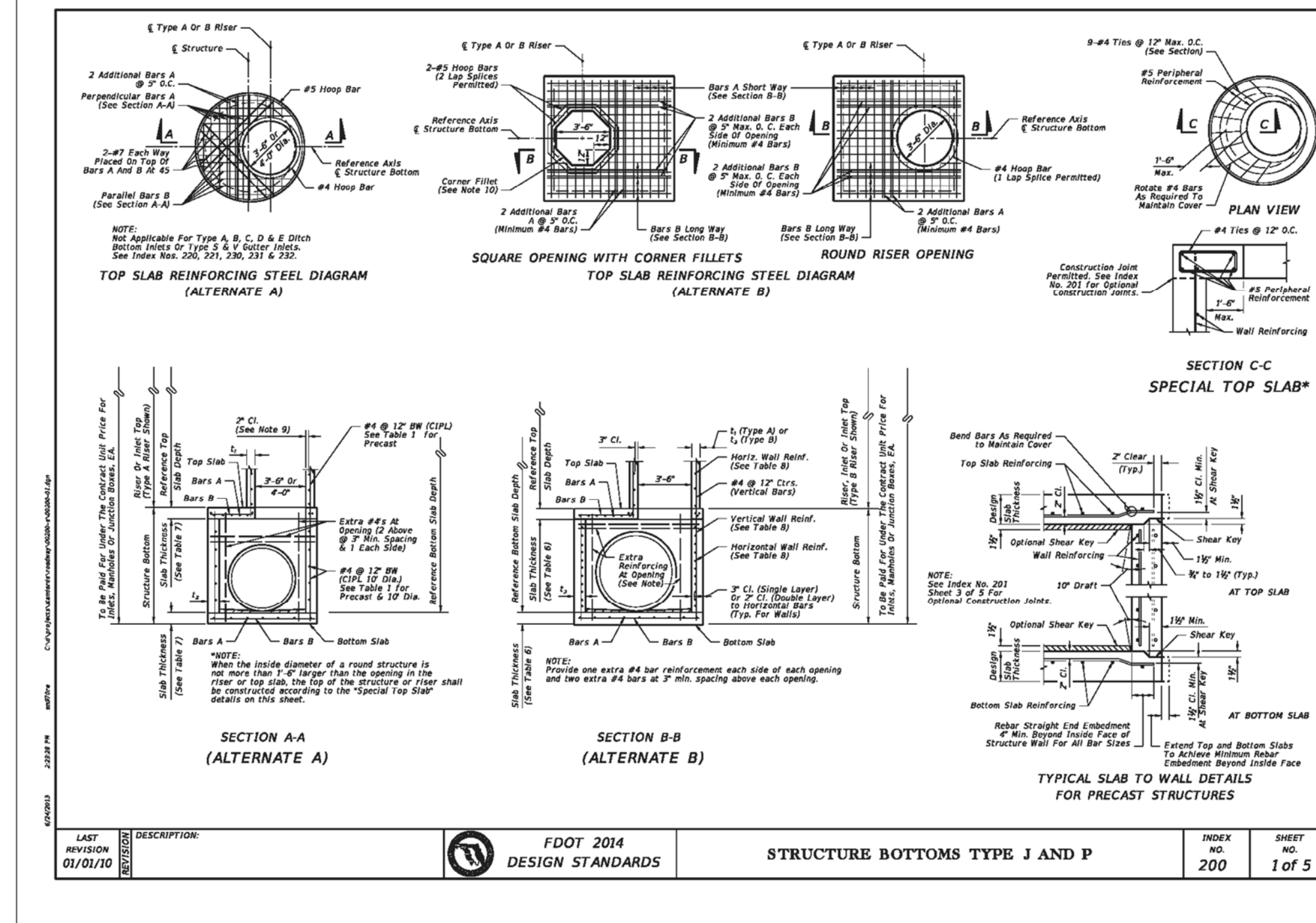
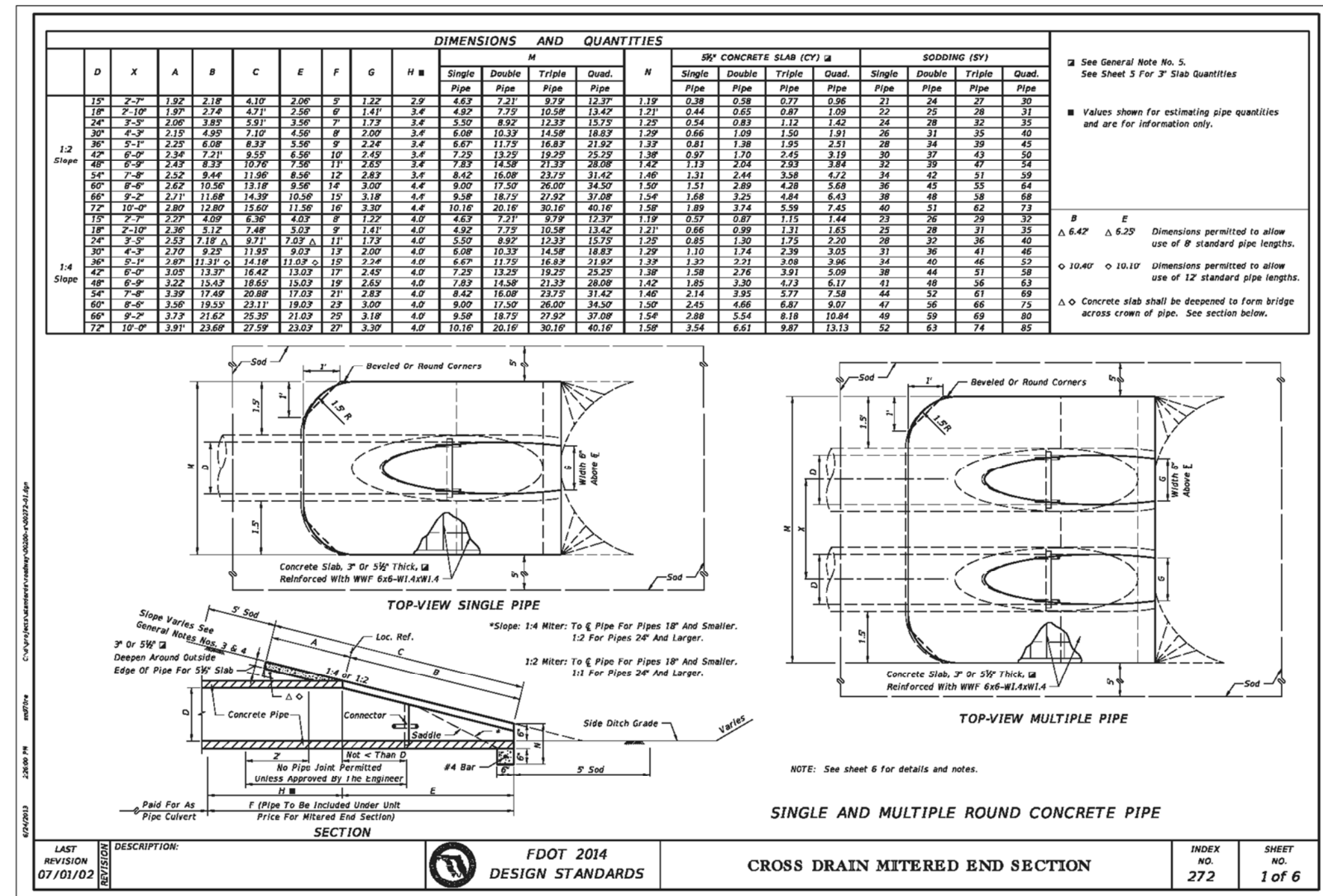
N.T.S.



NOTES:
FOR ADDITIONAL DETAILS SEE FDOT INDEX NO 201 & 233.

FDOT INLET TYPE "F"

N.T.S.



**WALDROP
ENGINEERING**

TUSCANY WOODS NORTH

CLIENT: TAYLOR MORRISON OF FLORIDA, INC.

PAVING, GRADING AND DRAINAGE DETAILS

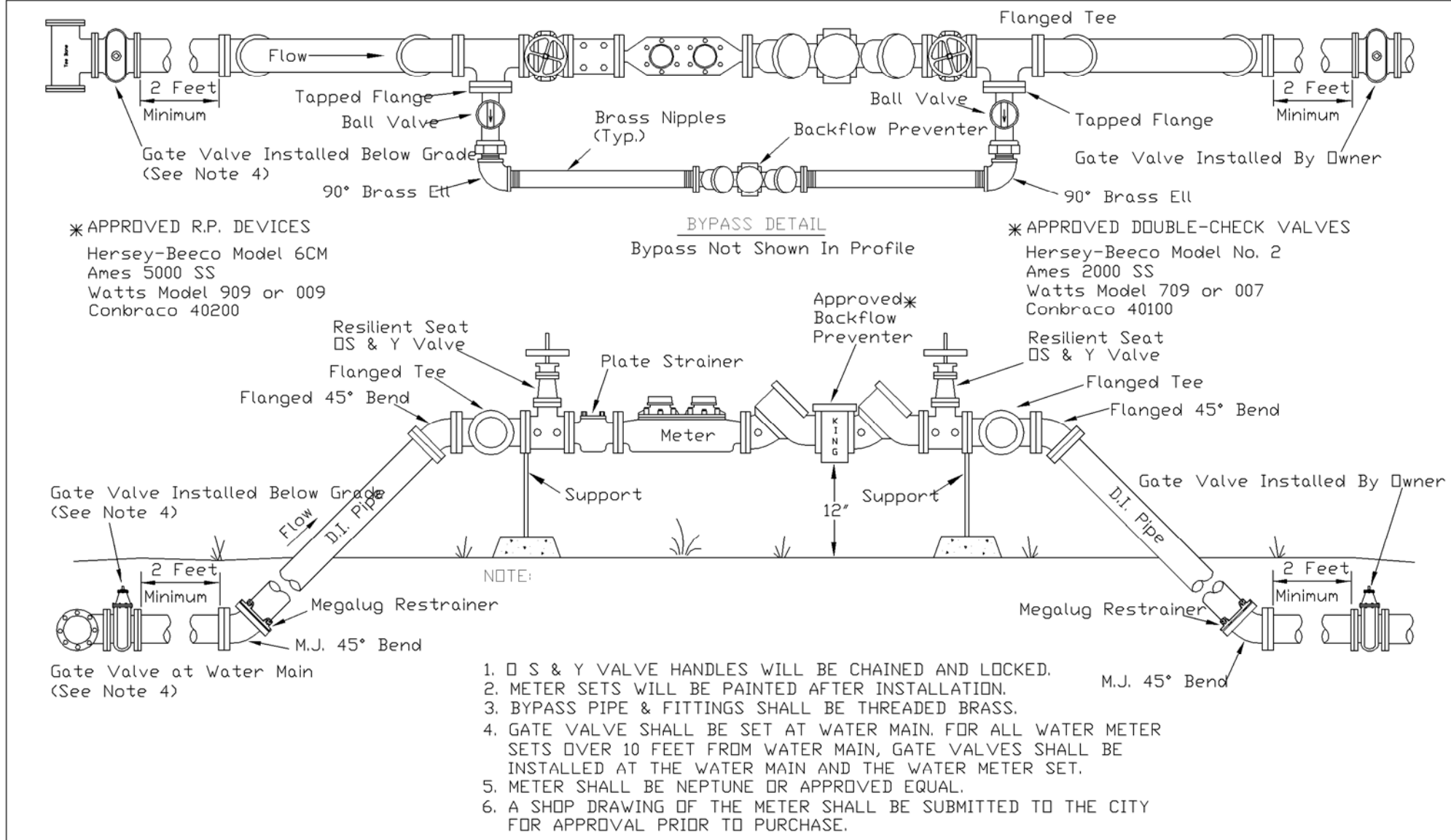
PLAN REVISIONS	REVISION	SUBMITTED	BID SET	XXXXXX
1	06/12/14	REVISED PER SWFIRMED AND CITY OF OLDSMAR COMMENTS		
FLORIDA CERTIFICATE OF AUTHORIZATION #8636				
R. TRENT STEPHENSON, P.E. FL. LICENSE NO. 99314				
SET NUMBER:			377-01-01	
SHEET:			11	



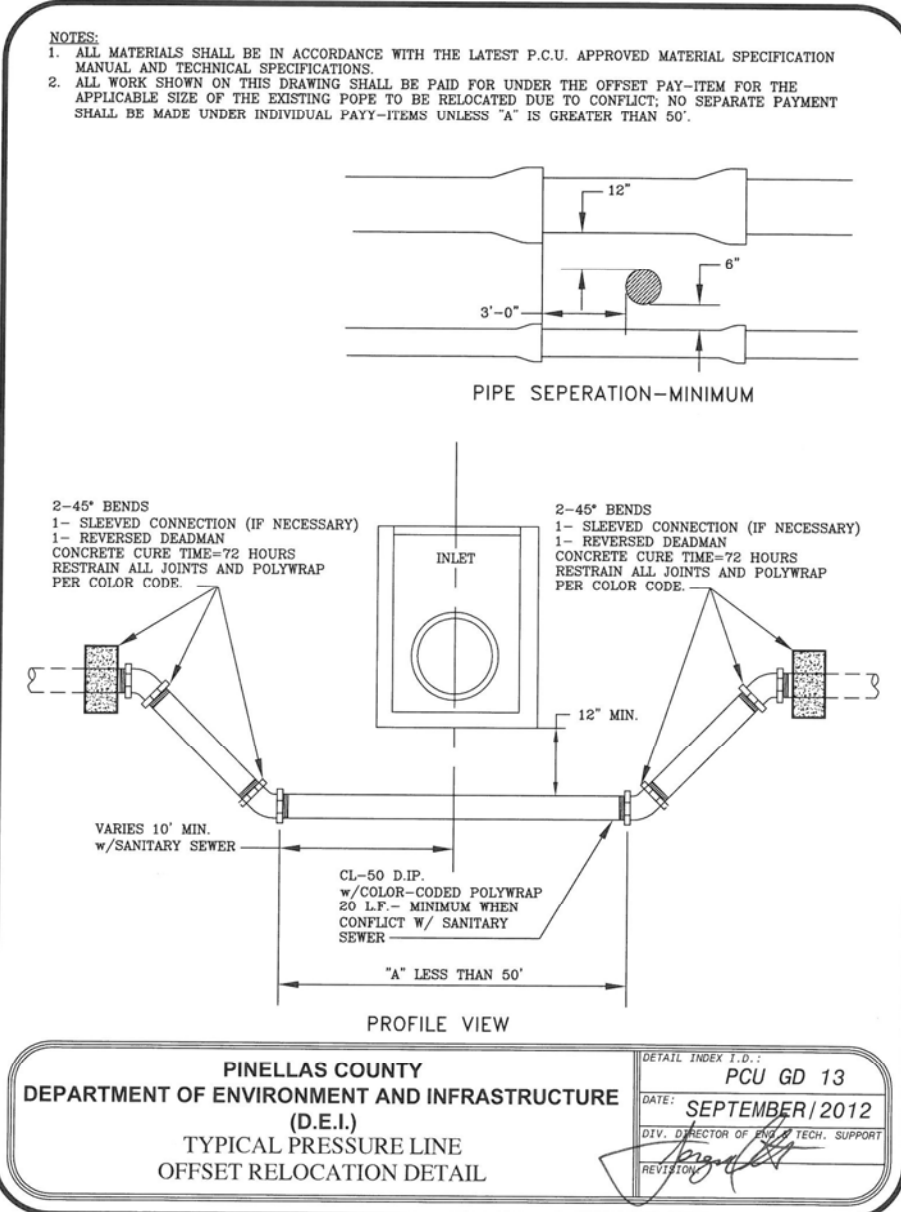
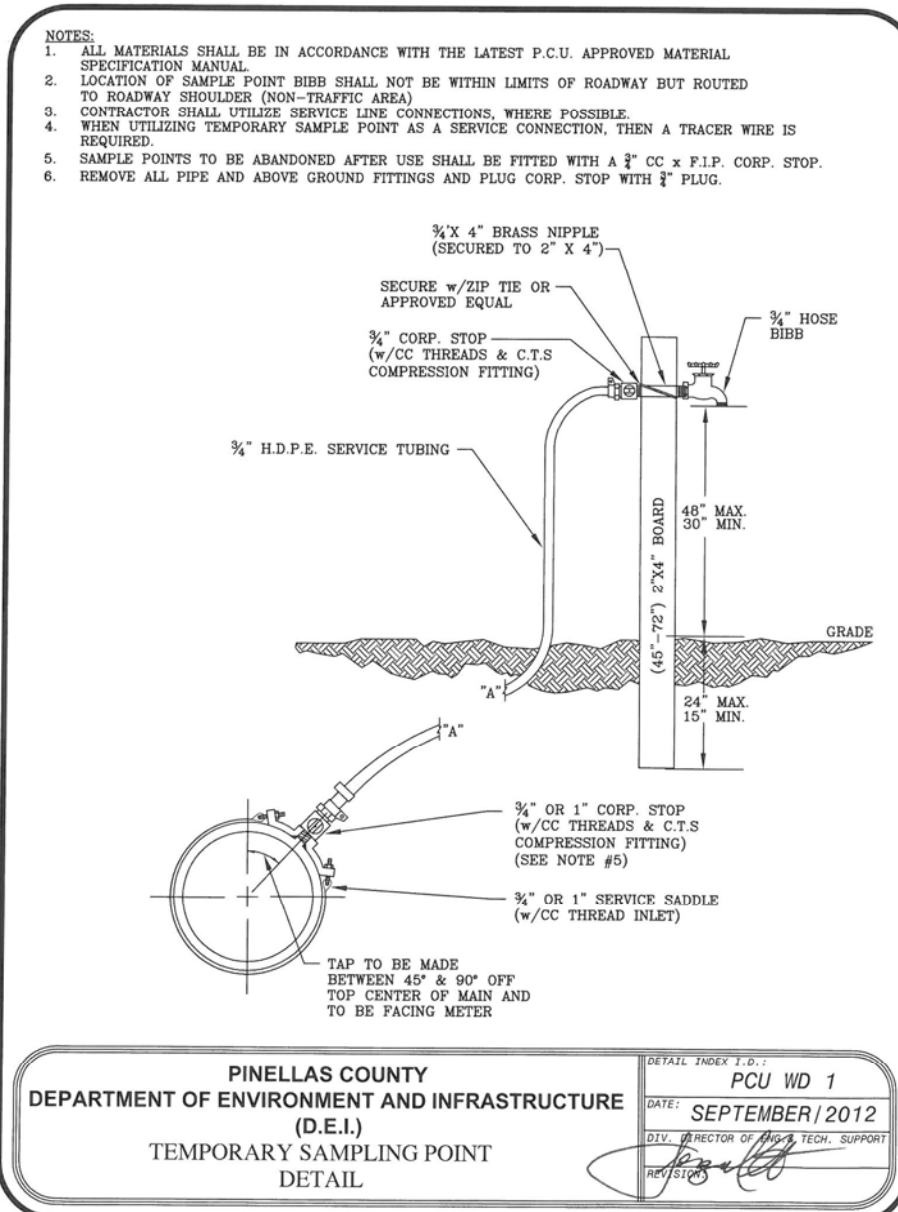
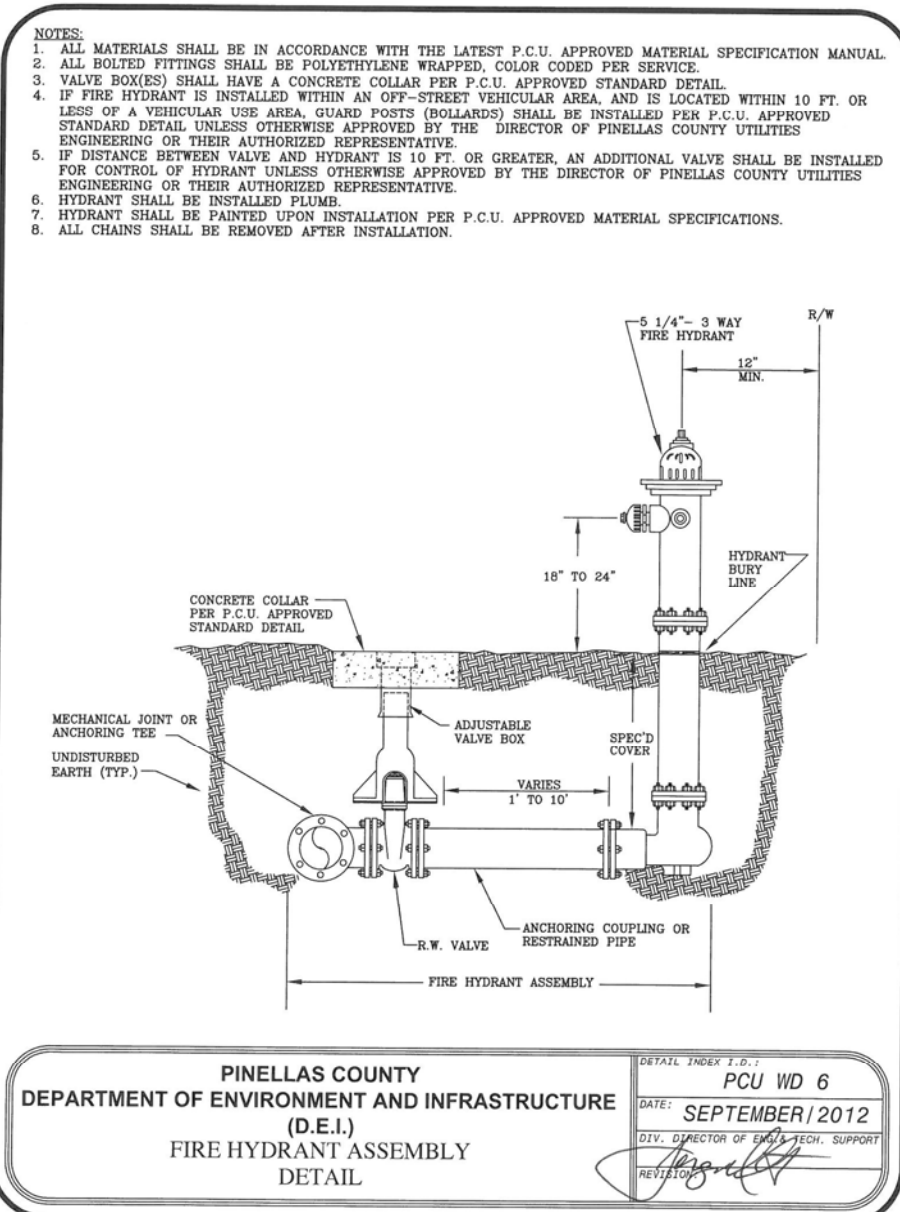
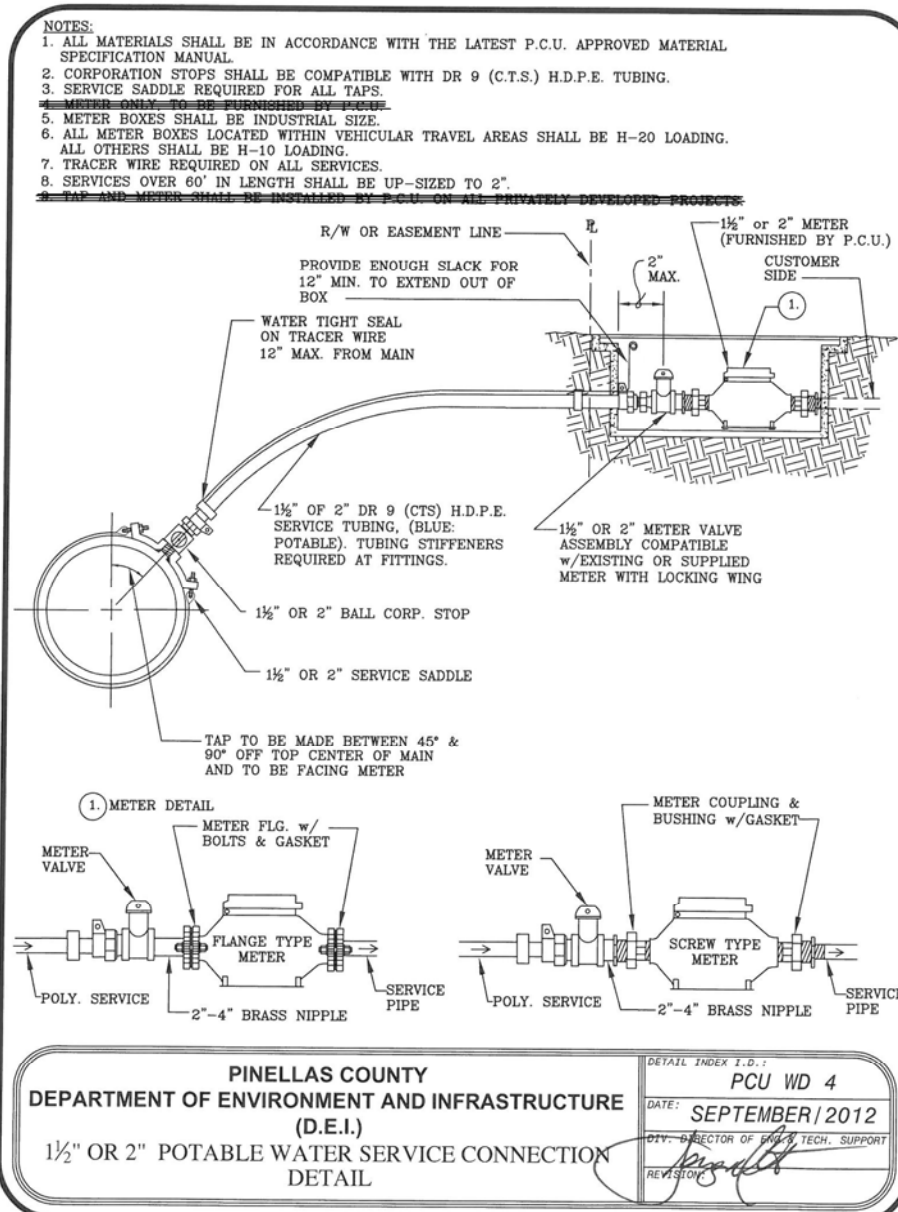
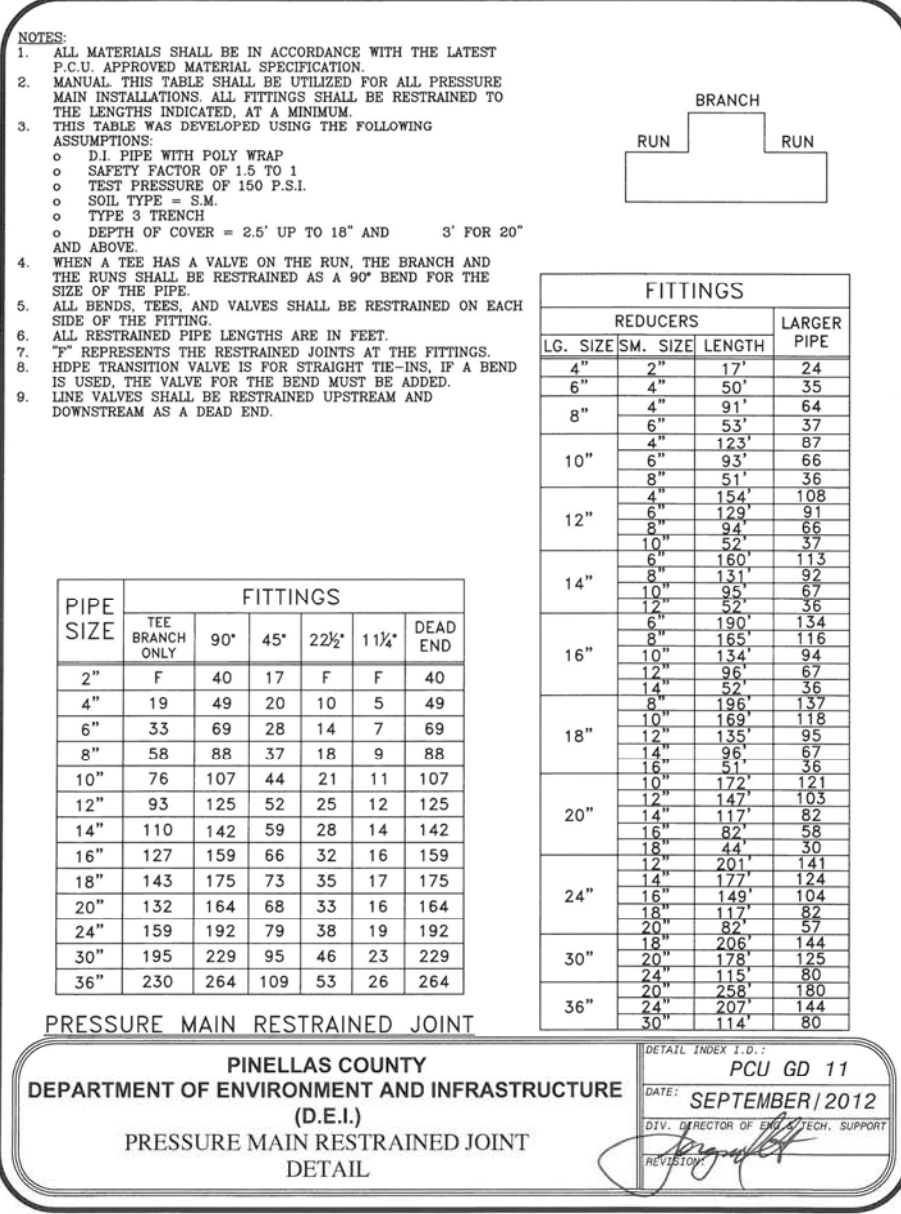
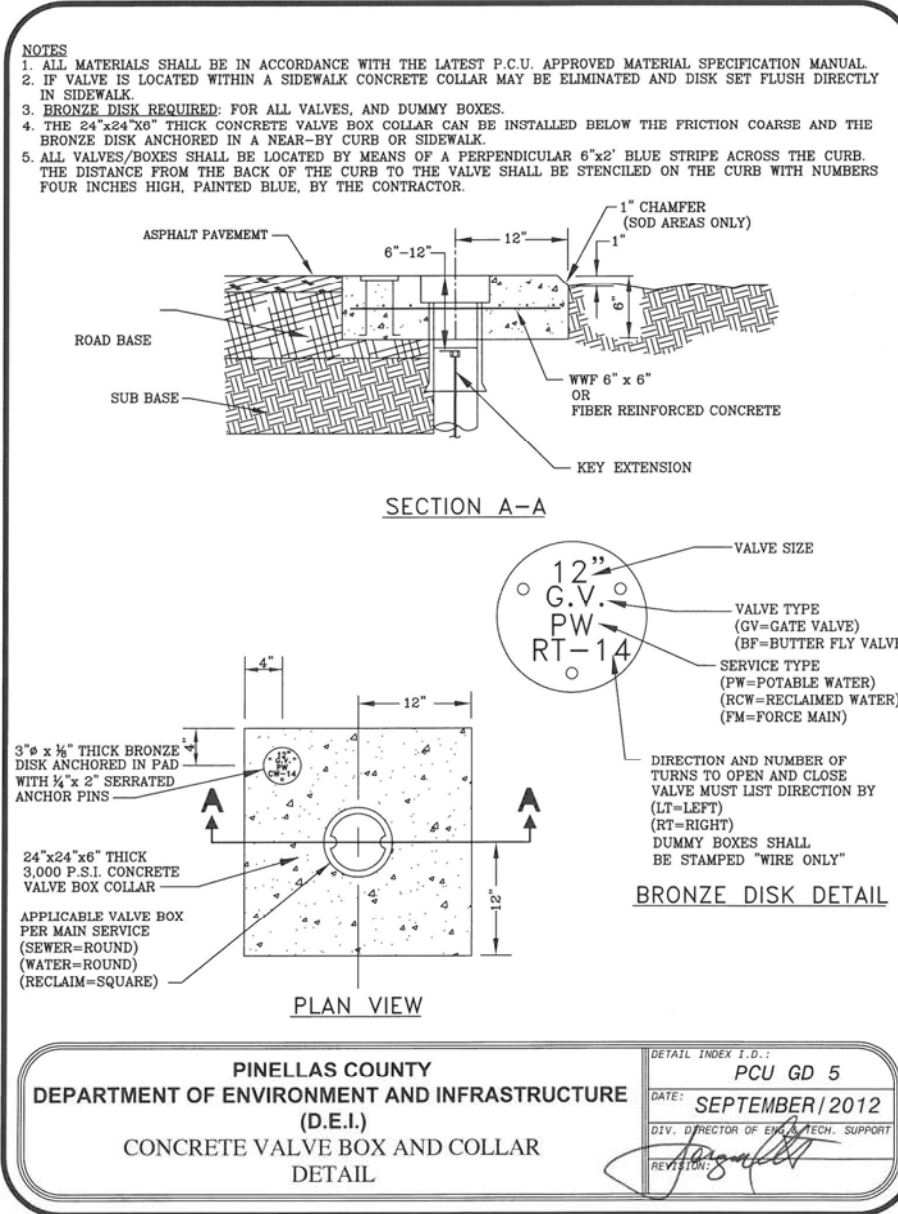
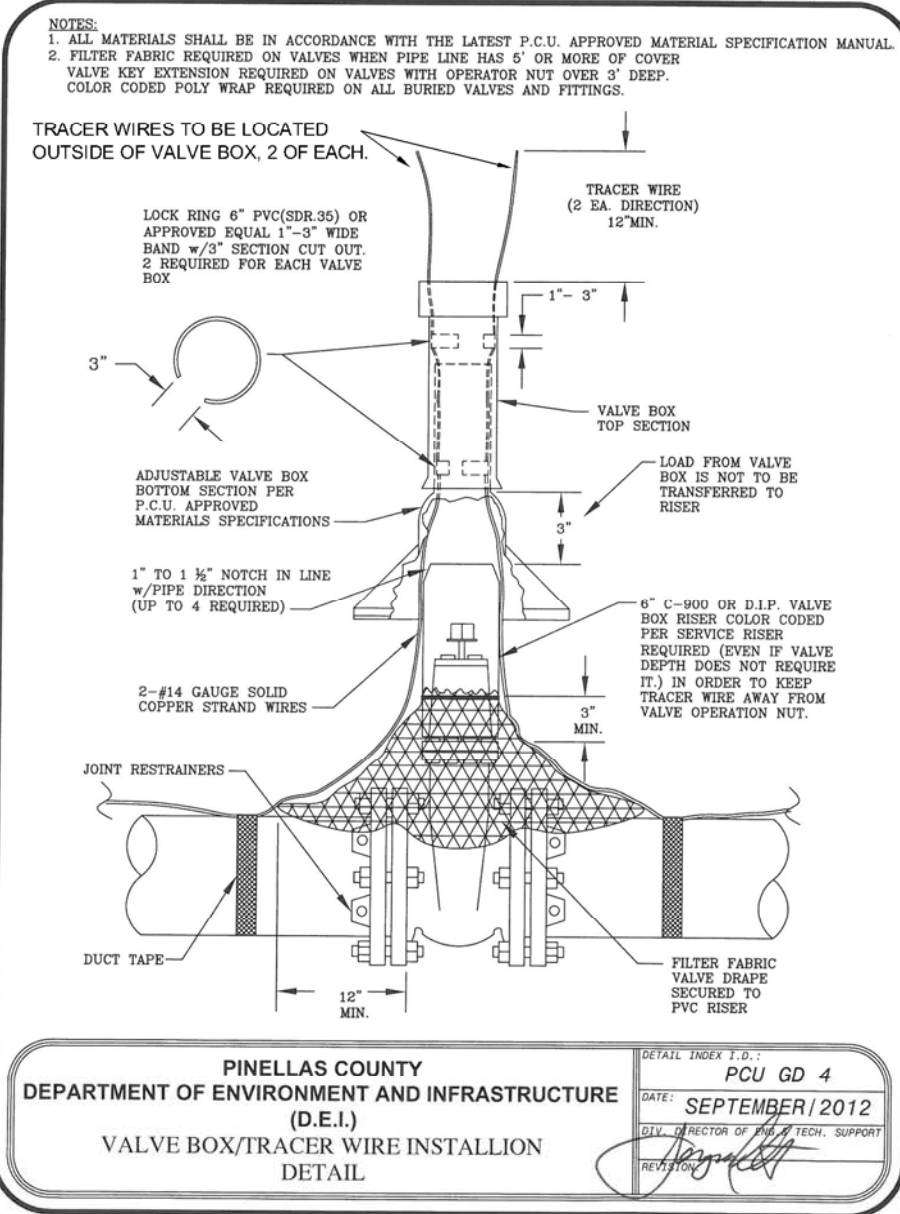
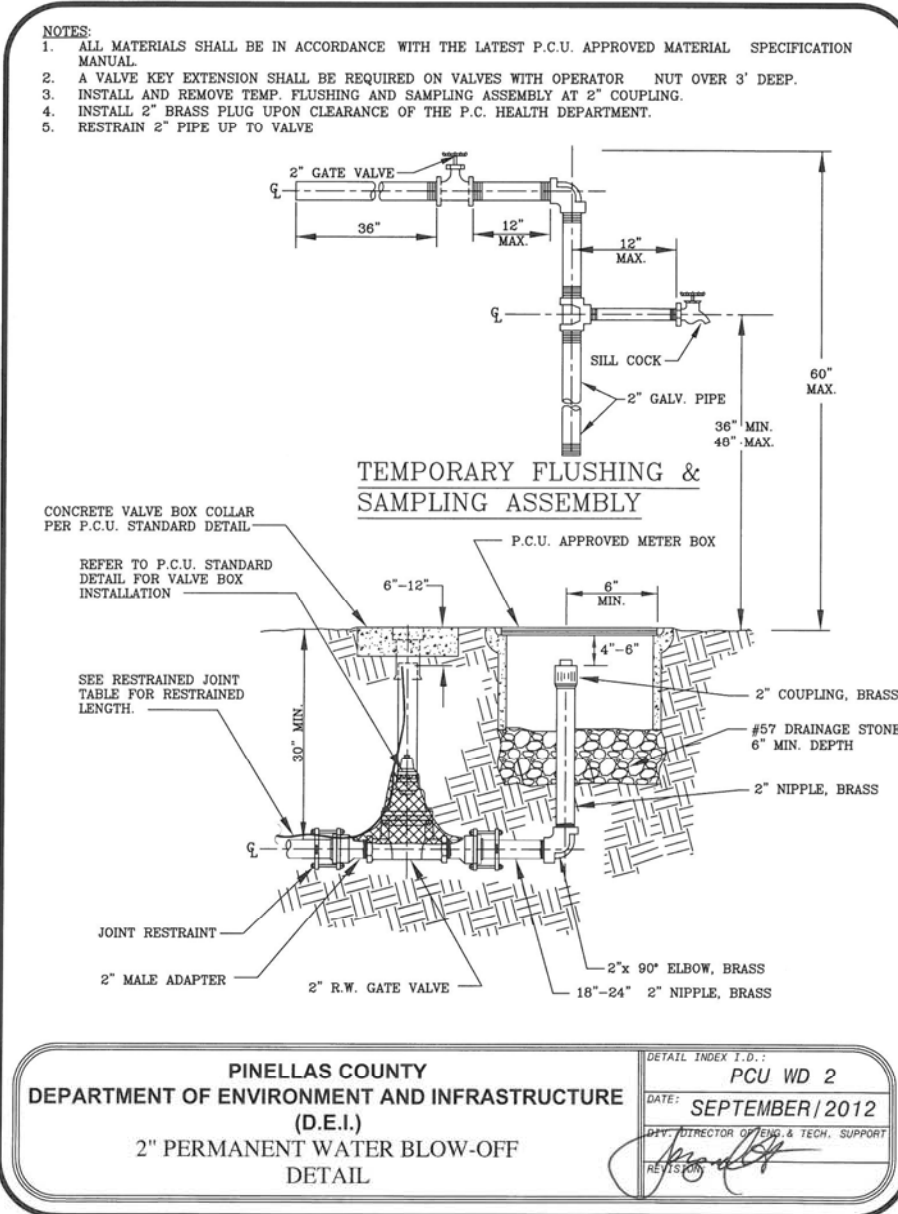
Transferred to Operation

PROPOSED UTILITY	MINIMUM HORIZONTAL AND VERTICAL SEPARATION REQUIREMENTS							
	POTABLE WATER		RECLAIMED WATER*		SANITARY SEWER FORCE MAIN		SANITARY SEWER GRAVITY MAIN	
POTABLE WATER	--	--	3'	12'	6'	12'	6"	6"
RECLAIMED WATER	3'	12'	--	--	3'	12'	3'	12'
SANITARY SEWER FORCE MAIN	6'	12'	3'	12'	--	--	--	--
SANITARY SEWER GRAVITY MAIN	6"	6" ABOVE 12" BELOW	3'	12'	--	--	--	--
FIRE HYDRANTS UNDERGROUND DRAINS	--	--	3'	--	6'	--	6'	--

- THE TABLE REPRESENTS THE MINIMUM SEPARATION REQUIREMENTS AS DESCRIBED IN F.D.E.P. RULES PER THE FLORIDA ADMINISTRATION CODE (F.A.C.). THESE SEPARATION REQUIREMENTS SHALL APPLY BETWEEN NEWLY PROPOSED UTILITY LINES AND EXISTING OR PROPOSED UTILITY LINES.
- FOR THE PURPOSE OF THIS TABLE RECLAIMED WATER SHALL MEAN UNRESTRICTED PUBLIC ACCESS REUSE WATER AS DEFINED BY F.A.C. 62-610. OTHER TYPES OF RECLAIMED WATER ARE CONSIDERED RAW SEWAGE AND SEPARATION LISTED FOR SANITARY SEWER SHALL APPLY.
- ALL SEPARATION DISTANCES ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
- THE MINIMUM HORIZONTAL SEPARATION BETWEEN POTABLE WATER AND GRAVITY SANITARY SEWER MAY BE REDUCED TO 3 FEET IF THE BOTTOM OF THE WATER MAIN IS LOCATED AT LEAST 6 INCHES ABOVE THE TOP OF THE GRAVITY SEWER.
- AT UTILITY CROSSINGS ONE FULL LENGTH OF WATER MAIN SHALL BE CENTERED ABOVE OR BELOW THE OTHER UTILITY PIPELINE MAXIMIZING THE SEPARATION OF PIPELINE JOINTS. ALTERNATIVELY, WATER MAIN JOINTS MUST BE:
 - AT LEAST 3' FROM ALL JOINTS IN VACUUM SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR UNRESTRICTED PUBLIC ACCESS RECLAIMED WATER.
 - AT LEAST 6' FROM ALL JOINTS IN GRAVITY OR PRESSURE SANITARY SEWERS, WASTEWATER FORCE MAINS, AND ALL OTHER TYPES OF RECLAIMED WATER.
- NO WATER PIPE SHALL PASS THROUGH OR BE CONSTRUCTED TOUCHING ANY PART OF A SANITARY OR STORM WATER MANHOLE OR STRUCTURE.
- NEW OR RELOCATED FIRE HYDRANTS WITH UNDERGROUND DRAINS MUST BE AT LEAST 10 FEET FROM 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, F.A.C.
- WHERE IT IS NOT POSSIBLE TO MEET THE SEPARATION REQUIREMENTS, THE FOLLOWING ALTERNATIVE CONSTRUCTION VARIANCES ARE ACCEPTABLE ONLY WITH THE EXPRESSED WRITTEN CONSENT OF THE ENGINEER.
 - WHERE A WATER MAIN IS BEING LAID LESS THAN THE REQUIRED MINIMUM HORIZONTAL DISTANCE AND/OR WHERE A WATER MAIN CROSSING HAS LESS THAN THE MINIMUM REQUIRED DISTANCE BETWEEN JOINTS:
 - USE OF PRESSURE RATED PIPE CONFORMING TO AWWA STANDARDS, FOR A GRAVITY OR VACUUM TYPE PIPE LINE.
 - USE OF WELDED, FUSED OR OTHERWISE RESTRAINED JOINTS FOR EITHER PIPE.
 - USE OF WATERTIGHT CASING PIPE OR CONCRETE ENCASMENT AT LEAST 4" THICK FOR EITHER PIPE.
 - WHERE A WATER MAIN IS BEING LAID LESS THAN 3 FEET HORIZONTALLY FROM ANOTHER PIPE LINE AND/OR WHERE A WATER MAIN IS BEING LAID WITH LESS THAN THE REQUIRED MINIMUM VERTICAL SEPARATION:
 - USE OF PIPE OR CASING PIPE, HAVING HIGH IMPACT STRENGTH (AT LEAST EQUAL TO 0.25" THICK D.I.P.), OR CONCRETE ENCASMENT AT LEAST 4" THICK FOR THE WATER MAIN AND THE OTHER PIPE LINE IF THE OTHER PIPE LINE CONVEYS WASTEWATER OR RECLAIMED WATER.



MASTER WATER METER ASSEMBLY



WALDROP
ENGINEERING
CIVIL ENGINEERING &
LAND DEVELOPMENT CONSULTANTS
9432 CAMDEN FIELD PARKWAY RIVERVIEW, FL 33575
P: 813-443-8282 F: 813-443-8285 EMAIL: info@waldropengineering.com

TUSCANY WOODS NORTH

CLIENT: TAYLOR MORRISON OF FLORIDA, INC.

WATER DETAILS

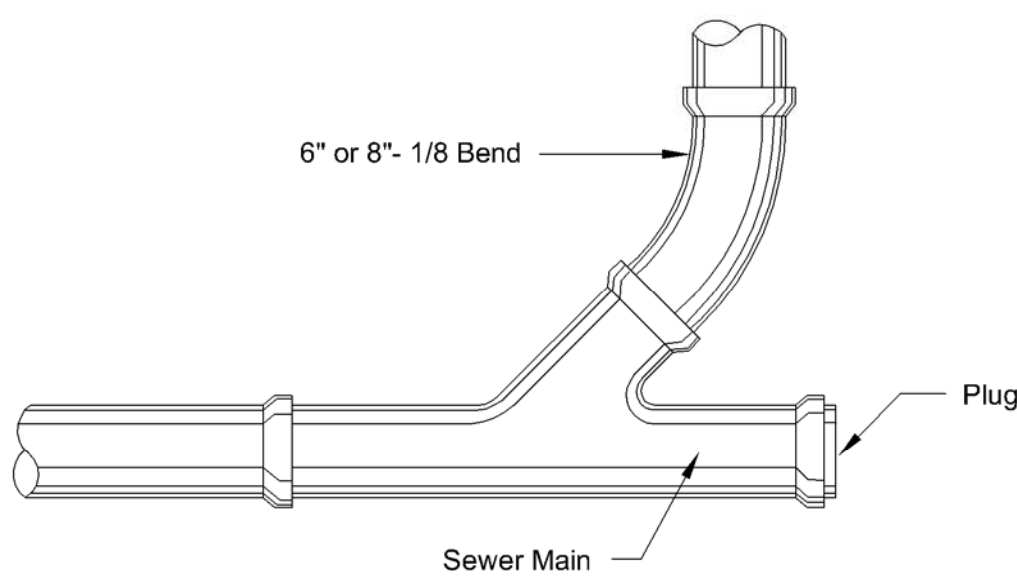
FINAL SITE PLANS

PLAN REVISIONS	REVISION	DATE	BY	APP'D
1	REVISED PER SWFMD AND CITY OF CLASHAM COMMENTS	06/12/14		
2	REVISED PER SWFMD AND CITY OF CLASHAM COMMENTS	06/12/14		
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100	REVISED PER SWFMD AND CITY OF CLASHAM COMMENTS	06/12/14		

FLORIDA CERTIFICATE OF AUTHORIZATION #6636
R. TRENT STEPHENSON, P.E.
FLORIDA LICENSE NO. 95914
SET NUMBER: 377-01-01
SHEET: 12

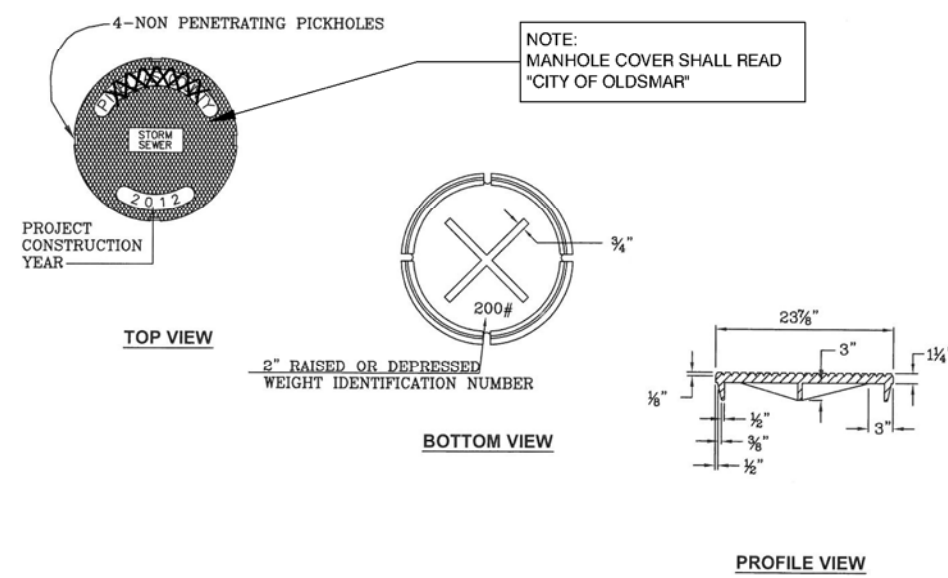


Transferred to Operation



STANDARD TERMINAL END CLEAN OUT (SANITARY)

- NOTES:
1. THIS COVER IS NOT TO BE USED FOR SANITARY SEWER MANHOLES.
 2. THIS COVER MAY BE USED WITH FRAME TYPE 1-B OR 1-C AS DETAILLED IN F.D.O.T. INDEX No. 201.
 3. THE ACTUAL FRAME TO BE USED SHALL BE AS SPECIFIED IN THE PLANS.
 4. MATERIALS AND FABRICATION SHALL CONFORM TO SECTION 405 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
 5. COVERS FOR UNDERGROUND CLEANOUTS SHALL BE LABELED UNDERGROUND AND NOT STORM SEWER.
 6. COVERS SHALL BE U.S.F. TYPE X OR EQUAL, 1200 LBS. MINIMUM.



PINELLAS COUNTY
DEPARTMENT OF ENVIRONMENT AND INFRASTRUCTURE
(D.E.I.)
STORM SEWER COVER

DATE: 1250
DATE: SEPTEMBER/2012
DIV. DIRECTOR OF PUBLIC TECH. SUPPORT
REVIEWED: [Signature]

SANITARY SEWER MANHOLE CONSTRUCTION NOTES

- ALL MANHOLES SHALL BE IN ACCORDANCE WITH THE LATEST P.C.U. APPROVED MATERIAL SPECIFICATION MANUAL.
1. PRECAST MANHOLE SECTIONS SHALL BE MANUFACTURED IN ACCORDANCE WITH THE LATEST EDITIONS OF ASTM C-478 WITH 4000 P.S.I. TYPE II PORTLAND CEMENT.
 2. ALL RISER UNITS SHALL HAVE A MINIMUM HEIGHT OF 12" WITH THE CONCENTRIC CONE SET BETWEEN 8 1/2" AND 14 1/2" BELOW THE BOTTOM OF MANHOLE COVER FRAME.
 3. ALL EXISTING JOINTS SHALL BE SEALED WITH TWO CONTINUOUS RINGS OF FLEXIBLE JOINT SEALANT, OR APPROVED EQUAL.
 4. ALL INTERIOR AND EXTERIOR MANHOLE SURFACES SHALL BE PREPARED FOR COATING AND COATED IN ACCORDANCE WITH P.C.U. STANDARD SPECIFICATIONS AND APPROVED MATERIAL SPECIFICATIONS. INSIDE COATING OF MANHOLE MAY BE ELIMINATED IF USING P.C.U. APPROVED LINING SYSTEMS.
 5. MANHOLE BASE AND BOTTOM SECTION SHALL BE MONOLITHICALLY CAST.
 6. ALL PIPE PENETRATIONS IN MANHOLE SHALL BE PRECAST OR CONE BELLED.
 7. MANHOLE COVER SHALL BE EQUIPPED WITH AN INFLOW PROTECTOR.
 8. A DROP CONNECTION IS REQUIRED WHERE THE PIPE INVERT IS GREATER THAN 6" ABOVE THE MANHOLE INVERT. FOR DROPS 6" OR LESS A FLUME SHALL BE CONSTRUCTED.
 9. ALL MANHOLES 5' IN DIAMETER OR GREATER SHALL REQUIRE THE USE OF A DOUBLE RING AND COVER.
 10. ALL MANHOLES WITH A DEPTH OF 14' OR GREATER SHALL BE DESIGNED FOR ANTI-FLOTATION AND SHALL REQUIRE SUBMITTAL OF CALCULATIONS.
 11. INSIDE DROP MANHOLES
 12. THERE SHALL BE NO MORE THAN 2 INSIDE DROPS PER MANHOLE.
 13. WHEN USING A 90° BEND OR RISER, IT SHALL BE ROTATED BETWEEN 20° AND 40° IN THE DIRECTION OF FLOW AND GROTTED INTO BRANCH.
 14. ALL FORCE MAIN CONNECTIONS REQUIRE THE USE OF A FORCE MAIN HOOD WITH INSIDE DROP RING.
 15. ALL INSIDE DROPS SHALL BE CONSTRUCTED USING P.V.C. SDR-35 PIPE.
 16. OUTSIDE DROP MANHOLES
 17. OUTSIDE DROP PIPING SHALL BE CONSTRUCTED USING THE SAME MATERIAL AS THE MAIN LINE.

TABLE		CASTING SIZE CLEAR OPENING
4'-0"	FOR PIPES 24" & UNDER	24"
6'-0"	30" & 36" ALL INSIDE DROPS AND AIR RELEASE MANHOLES	30"
8'-0"	42" & OVER	48"

PINELLAS COUNTY
DEPARTMENT OF ENVIRONMENT AND INFRASTRUCTURE
(D.E.I.)
MANHOLE CONSTRUCTION NOTES

DATE: PCU SD 1
DATE: SEPTEMBER/2012
DIV. DIRECTOR OF PUBLIC TECH. SUPPORT
REVIEWED: [Signature]

- NOTES:
1. ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST P.C.U. APPROVED MATERIAL SPECIFICATION MANUAL.
 2. REFER TO P.C.U. STANDARD DETAIL ON MANHOLE CONSTRUCTION NOTES.
 3. ALL RISER UNITS SHALL HAVE A MINIMUM HEIGHT OF 12" WITH THE CONCENTRIC CONE SET BETWEEN 8 1/2" AND 14 1/2" BELOW THE BOTTOM OF MANHOLE COVER FRAME.

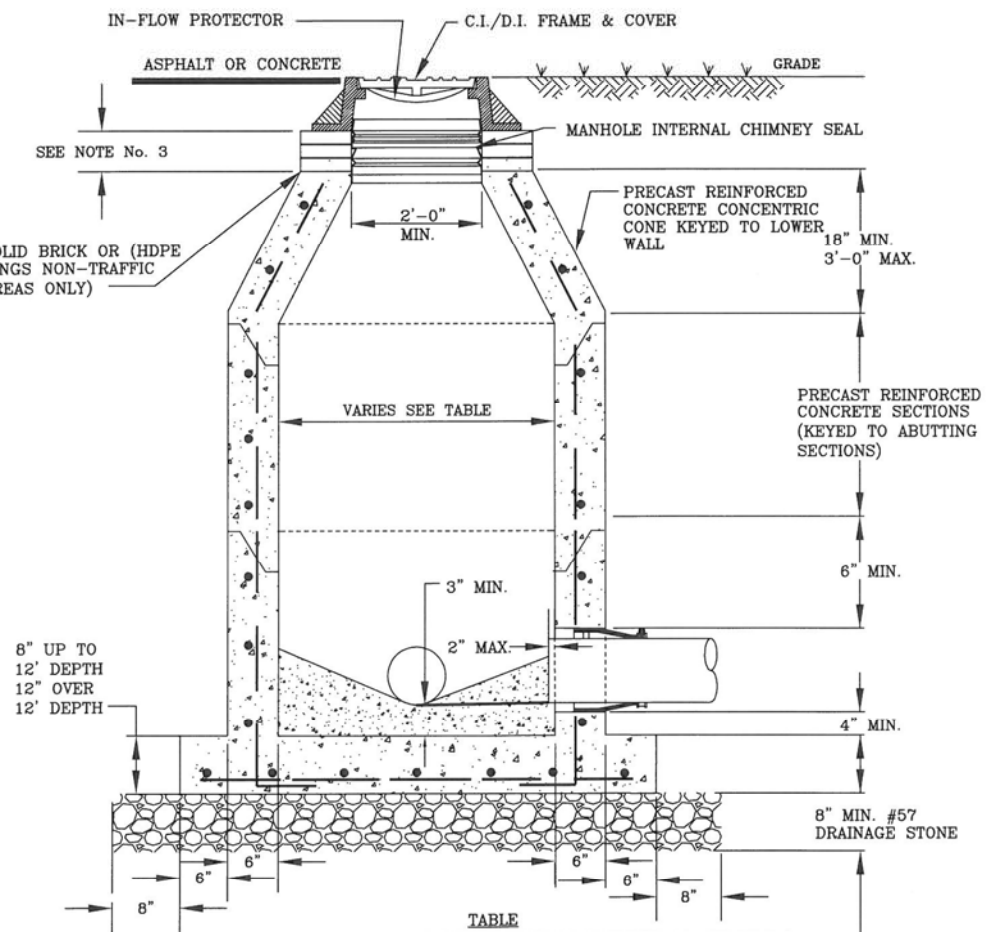
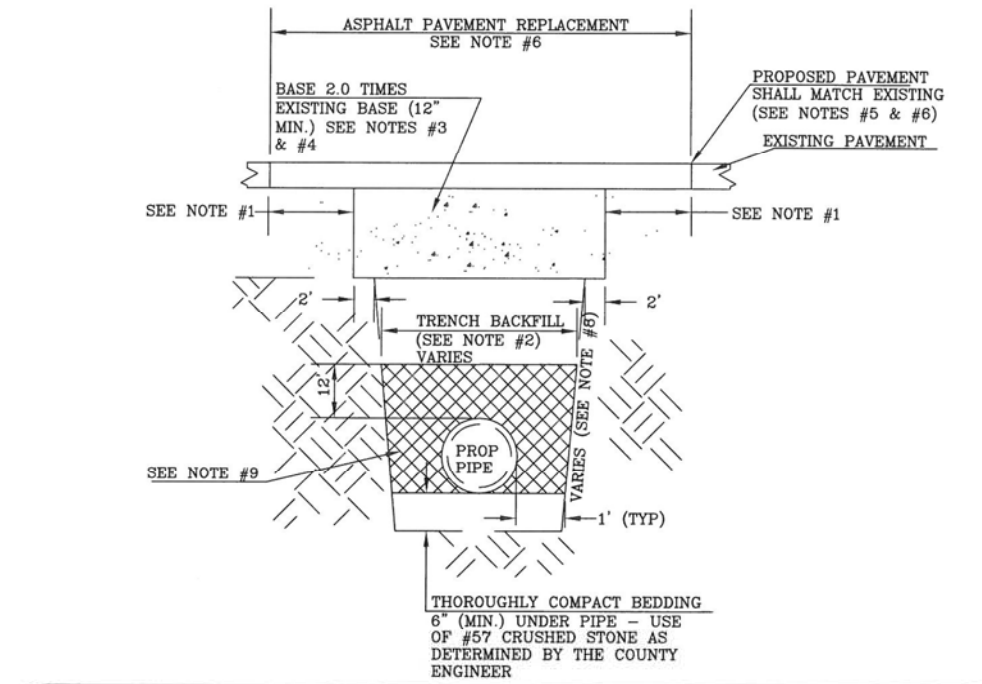


TABLE		CASTING SIZE CLEAR OPENING
4'-0"	FOR PIPES 24" & UNDER	24"
6'-0"	30" & 36" ALL INSIDE DROPS AND AIR RELEASE MANHOLES	30"
8'-0"	42" & OVER	48"

PINELLAS COUNTY
DEPARTMENT OF ENVIRONMENT AND INFRASTRUCTURE
(D.E.I.)
STANDARD MANHOLE (PRE-CAST) DETAIL

DATE: PCU SD 1a
DATE: SEPTEMBER/2012
DIV. DIRECTOR OF PUBLIC TECH. SUPPORT
REVIEWED: [Signature]

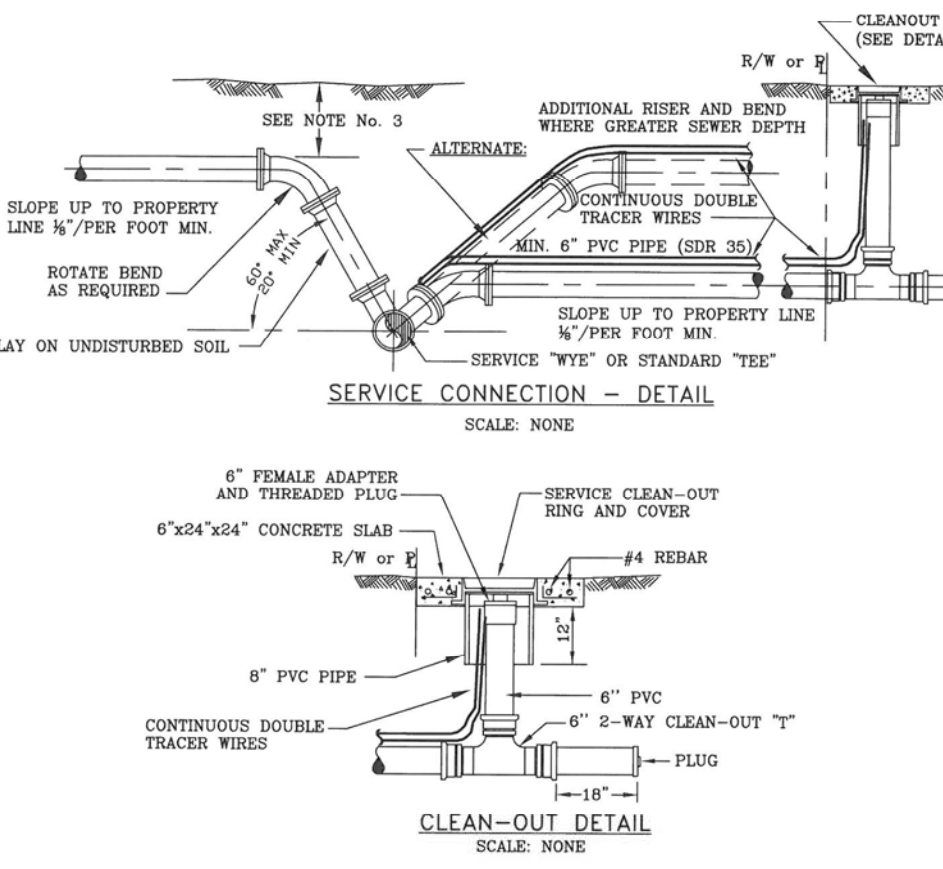
- NOTES:
1. MILLING AND RESURFACING LIMITS: 3'-0" FOR RESIDENTIAL ROADWAYS; 20'-0" FOR ALL OTHER TYPES OF ROADWAYS.
 2. BACKFILL FOR TRENCH SHALL BE PLACED IN 6" COMPACTED LAYERS TO 100% OF MAXIMUM DENSITY AS DETERMINED BY ASTM T-99. (EXCAVATABLE FLOWABLE FILL OPTION IS SUBJECT TO COUNTY ENGINEER'S APPROVAL). TEST REPORTS ARE REQUIRED AND SHALL BE SUBMITTED TO PINELLAS COUNTY.
 3. BASE MATERIAL SHALL BE LIME ROCK OR CRUSHED CONCRETE (MIN. LBS 100) AND SHALL BE PLACED IN 6" COMPACTED LAYERS TO 94% OF MAXIMUM DENSITY AS DETERMINED BY ASTM T-140 (MODIFIED). TEST REPORTS ARE REQUIRED AND SHALL BE SUBMITTED TO PINELLAS COUNTY.
 4. AS AN ALTERNATIVE TO COMPACTED BASE AND IN KEY AREAS, FULL-LIFT ASPHALTIC CONCRETE, FINE TRAFFIC LEVEL C TYPES SP-9.5 OR 12.5, SHALL BE PLACED IN 2" COMPACTED LAYERS WITH A MINIMUM THICKNESS EQUAL TO THE EXISTING BASE (6" MIN.).
 5. ASPHALTIC CONCRETE PAVEMENT JOINTS SHALL BE SAW-CUT AND ALL SURFACES TACK COATED.
 6. ASPHALT SURFACE SHALL BE CONSISTENT WITH EXISTING GRADE. IN ACCORDANCE WITH PINELLAS COUNTY SPECIFICATIONS, THE FOLLOWING ROADWAY CLASSIFICATION TYPE/THICKNESS ARE REQUIRED: ARTERIAL-3" MIN. TYPE SP-12.5 FINE TRAFFIC LEVEL "C"; COLLECTOR-2" MIN. TYPE SP-12.5 FINE TRAFFIC LEVEL "C"; RESIDENTIAL-1 1/2" MIN. TYPE SP-9.5 TRAFFIC LEVEL "C" (TEST REPORTS ARE REQUIRED AND SHALL BE SUBMITTED TO PINELLAS COUNTY).
 7. OVERLAY OF CONSTRUCTION SCAMS TO PAVEMENT AND TRENCH SHALL BE REQUIRED AS DIRECTED BY THE COUNTY ENGINEER.
 8. EXCAVATION SHALL COMPLY WITH THE TRENCH SAFETY ACT REQUIREMENTS.
 9. INSTALL DRY COMPACTABLE MATERIAL AROUND THE PIPE.
 10. ALL MATERIAL, WORK AND TESTING SHALL MEET PINELLAS COUNTY STANDARD SPECIFICATIONS.
 11. CONTRACTOR SHALL RESTORE PAVEMENT TO MATCH THE GRADES THAT EXISTED PRIOR TO CONSTRUCTION. ANY ADDITIONAL SURVEY NECESSARY TO ENSURE THAT THIS REQUIREMENT IS MET SHALL BE PERFORMED AT THE CONTRACTOR'S EXPENSE.



PINELLAS COUNTY
DEPARTMENT OF ENVIRONMENT AND INFRASTRUCTURE
(D.E.I.)
PAVEMENT CUTS, EXCAVATION AND RESTORATION

DATE: 1291
DATE: SEPTEMBER/2012
DIV. DIRECTOR OF PUBLIC TECH. SUPPORT
REVIEWED: [Signature]

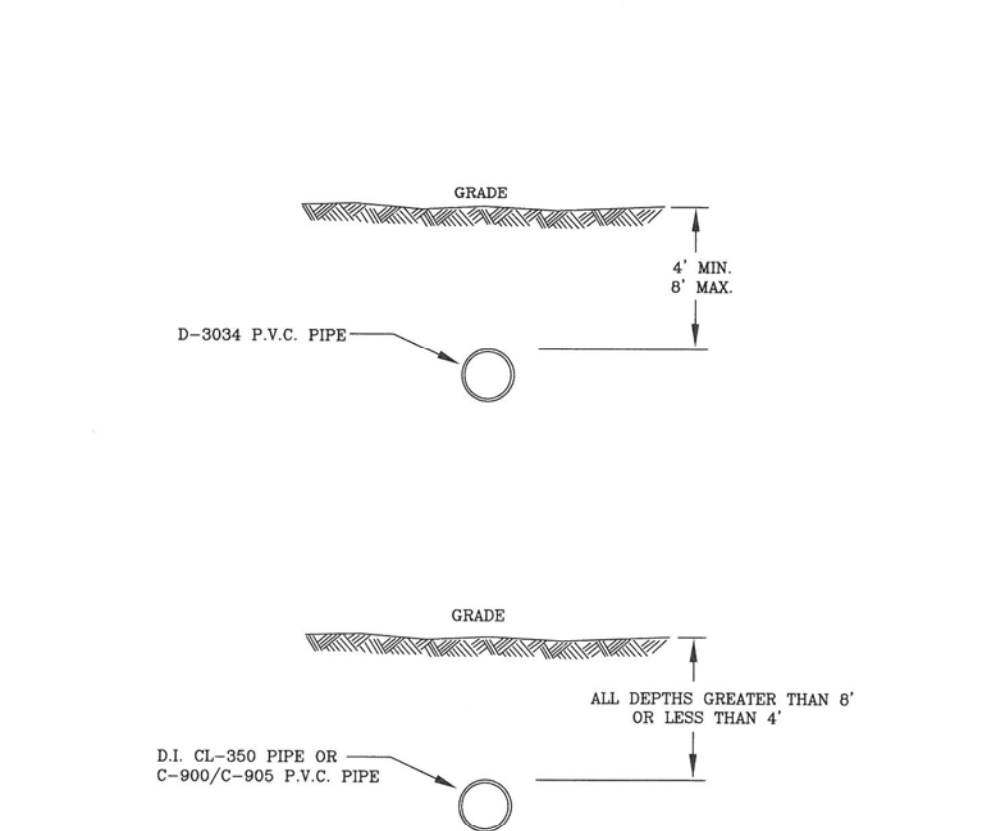
- NOTES:
1. ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST P.C.U. APPROVED MATERIAL SPECIFICATION MANUAL.
 2. SERVICE CONNECTIONS MAY NOT HAVE BEEN SHOWN ON PLAN/PRIOR SURVEYS. SERVICE CONNECTION LOCATIONS SHALL BE DETERMINED IN THE FIELD AND CONNECTIONS CONSTRUCTED IN ACCORDANCE WITH P.C.U. APPROVED TECHNICAL SPECIFICATIONS, MATERIALS MANUAL & THESE DETAILS. FOR NOW DEVELOPMENT, THE SERVICE CONNECTION SHALL BE CONSTRUCTED IN THE CENTER OF THE LOT.
 3. MINIMUM DEPTH UNDER ROADWAY 4'-0" MINIMUM DEPTH AT PROPERTY LINE 36" (AS REQUIRED FOR SERVICE).
 4. SERVICE LINES SHALL BE A MIN. OF 6" TO ALL RESIDENCES.
 5. NO DOUBLE WYE UNITS SHALL BE PERMITTED ON SERVICE LINE. ALL RESIDENCES SHALL BE SERVED BY A SINGLE SERVICE.
 6. RISERS SHALL BE INSTALLED ON ALL WYES (BOTH PRESENT & FUTURE SERVICES).
 7. RISERS SHALL PREFERABLY FOLLOW SLOPE OF BANK TO REQUIRED DEPTH.
 8. THE TRACER WIRE SHALL START AT THE CLEAN-OUT AND RUN ALONG THE SEWER SERVICE TO THE MAIN AND BACK TO THE CLEAN-OUT AS ONE CONTINUOUS WIRE.



PINELLAS COUNTY
DEPARTMENT OF ENVIRONMENT AND INFRASTRUCTURE
(D.E.I.)
SEWER SERVICE CONNECTION AND CLEAN-OUT DETAIL

DATE: PCU SD 4
DATE: SEPTEMBER/2012
DIV. DIRECTOR OF PUBLIC TECH. SUPPORT
REVIEWED: [Signature]

- NOTES:
1. ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST P.C.U. APPROVED MATERIAL SPECIFICATION MANUAL.



PINELLAS COUNTY
DEPARTMENT OF ENVIRONMENT AND INFRASTRUCTURE
(D.E.I.)
DEPTH LIMITATIONS OF SANITARY SEWER PIPE DETAIL

DATE: PCU SD 5
DATE: SEPTEMBER/2012
DIV. DIRECTOR OF PUBLIC TECH. SUPPORT
REVIEWED: [Signature]

WALDROP
ENGINEERING

CIVIL ENGINEERING &
LAND DEVELOPMENT CONSULTANTS
9432 CAMDEN FIELD PARKWAY OVERVIEW, FL 33175
P: 813-443-8252 F: 813-443-8255 EMAIL: info@waldropengineering.com

FINAL SITE PLANS
TUSCANY WOODS NORTH

CLIENT: TAYLOR MORRISON OF FLORIDA, INC.

WASTE WATER COLLECTION DETAILS

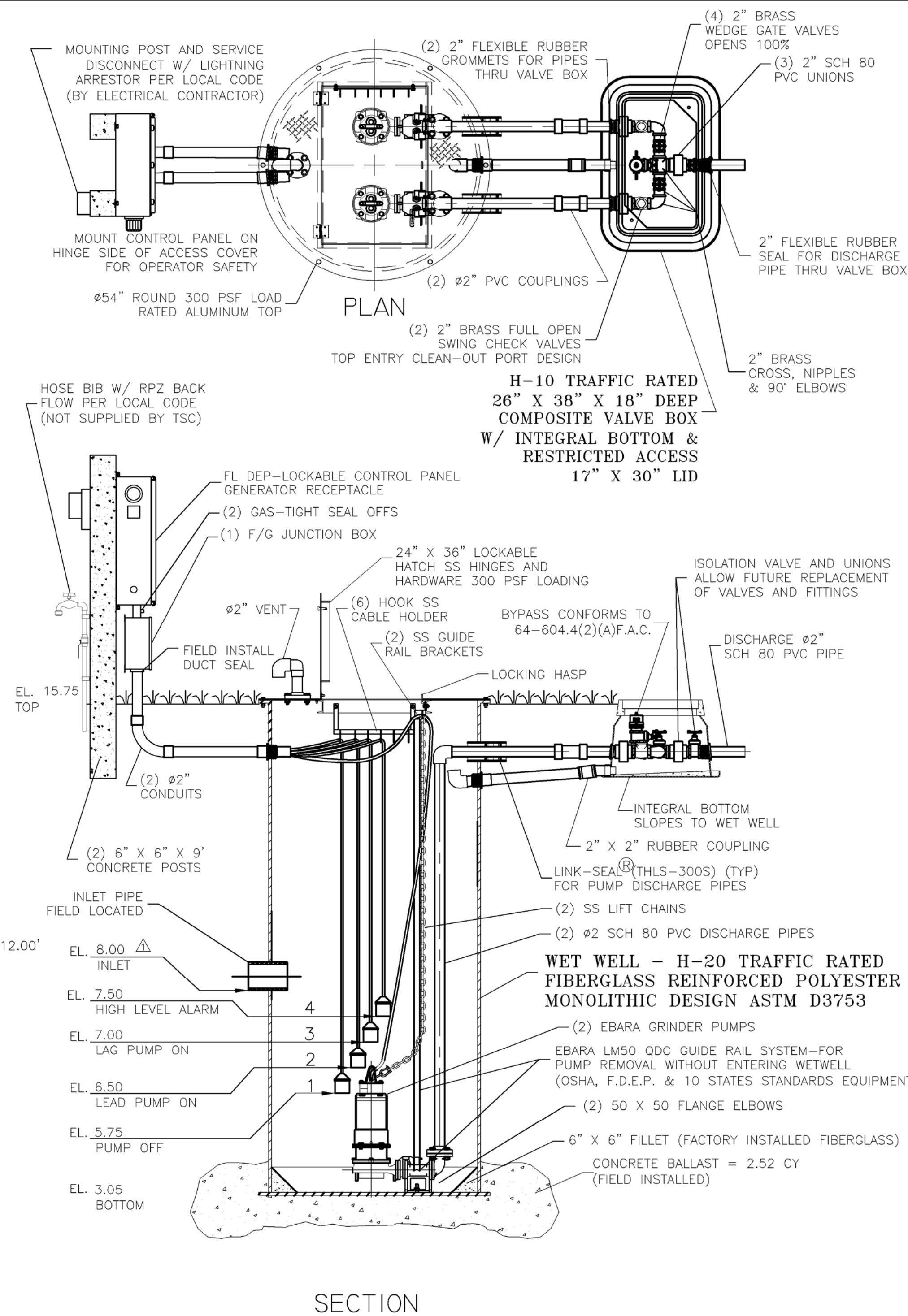
PLAN REVISIONS	REVISED PER SWF/MD AND CITY OF OLD SMAR COMMENTS
06/12/14	REVISED PER SWF/MD AND CITY OF OLD SMAR COMMENTS

FLORIDA CERTIFICATE OF AUTHORIZATION #6636

R. TRENT STEPHENSON, P.E.
FL. LICENSE NO. 99314
SET NUMBER: 377-01-01
SHEET: 13



Transferred to Operation



SECTION

EBARA SEWAGE GRINDER PUMP
48" DUPLEX STATION - 2" PIPING
WITH SLIDE RAIL SYSTEM, V.B. AND F.D.E.P. PANEL
TSC PRE-FAB PUMP SOLUTIONS®

2. GROUT FILLET (1 TO 1 SLOPE TO "HOPPER" BOTTOM)
1. HOSE BIBB WITH REDUCED PRESSURE BACK FLOW PREVENTER
FIELD INSTALL BY CONTRACTOR

GENERAL NOTES

FURNISH AND INSTALL EBARA SUBMERSIBLE GRINDER PUMPS:

DESIGN CONDITION:

MODEL	50 DGF 62.25	3	HP
GPM	35	68.40	FT/TDH
VOLTAGE	230	3	PHASE
DISCHARGE	2"	123 mm	IMPELLER

SEWAGE GRINDER PUMP: RATED FOR TWENTY (20) STARTS PER HOUR.

- AIR FILLED MOTOR DESIGNED FOR SEWAGE APPLICATION WITH CLASS F INSULATION.
- DUAL MECHANICAL SHAFT SEALS (SILICON CARBIDE / SILICON CARBIDE) LOCATED OUT OF THE PUMPAGE, IN A SEPARATE OIL FILLED CHAMBER.
- HIGH TEMPERATURE BALL BEARINGS B-10 RATING OF 60,000 HOURS, UPPER BEARING - SINGLE ROW AND LOWER BEARINGS - DOUBLE ROW TYPE.
- PUMP SHAFT HORSEPOWER (BHP) SHALL NOT EXCEED MOTOR RATED HORSEPOWER THROUGHOUT THE ENTIRE OPERATING RANGE OF THE PUMP PERFORMANCE CURVE.
- SINGLE PHASE MOTORS SHALL BE DUAL WOUND, CAPACITOR START-RUN AND CAPABLE OF OPERATING ON 208/230 VOLT WITH A 10% TOLERANCE VOLTAGE (190 TO 260). THREE PHASE MOTORS SHALL BE DUAL WOUND AND CAPABLE OF OPERATING ON 208/230 VOLT WITH A 10% TOLERANCE VOLTAGE (190 TO 260) OR OPERATE ON 460 VOLT BY CHANGING THE MOTOR LEADS INSIDE THE PUMP.

FIBERGLASS WET WELL: SHALL BE A ONE PIECE UNIT WITH INTEGRAL BOTTOM, WALL AND UPPER FLANGE. THE ENTIRE FIBERGLASS WET WELL SHALL HAVE A DYNAMIC LOAD RATING OF 16,000 FT/LBS. EACH UNIT MUST BE SERIAL NUMBERED TO IDENTIFY THE TEST PROCEDURE. ASTM D 3753 & H-20 SPECIFICATIONS SHALL REQUIRED AS MINIMUM.

ALUMINUM HATCH: TSC MODEL-54R (54") ROUND WITH 24" X 36" LOCKABLE HATCH, REINFORCED FOR LOAD RATING OF 300 LBS/FT WITH HOLD OPEN SAFETY ARM, LOCKING DEVICE FOR HASP TYPE PADLOCK AND STAINLESS STEEL HARDWARE.

VALVE BOX: FIBERGLASS COMPOSITE (H-10 TRAFFIC RATED) WITH INTEGRAL BOTTOM. (FOR 1 1/4" AND 2" DISCHARGE PIPING SXS HEADER SYSTEM) SHALL BE 26" X 38" X 18" WITH 17" X 30" LIMITED ACCESS LID

ACCESSORIES: #304 S/S - GUIDE RAILS, UPPER GUIDE RAIL BRACKETS, CABLE HOLDER, ANCHOR BOLTS AND PUMP LIFTING CHAINS.

VALVES: SHALL BE SEWAGE SERVICE DESIGN BRASS SWING CHECK VALVES WITH TOP ENTRY CLEAN-OUT PORT AND BRASS WEDGE GATE VALVES OPEN 100%.

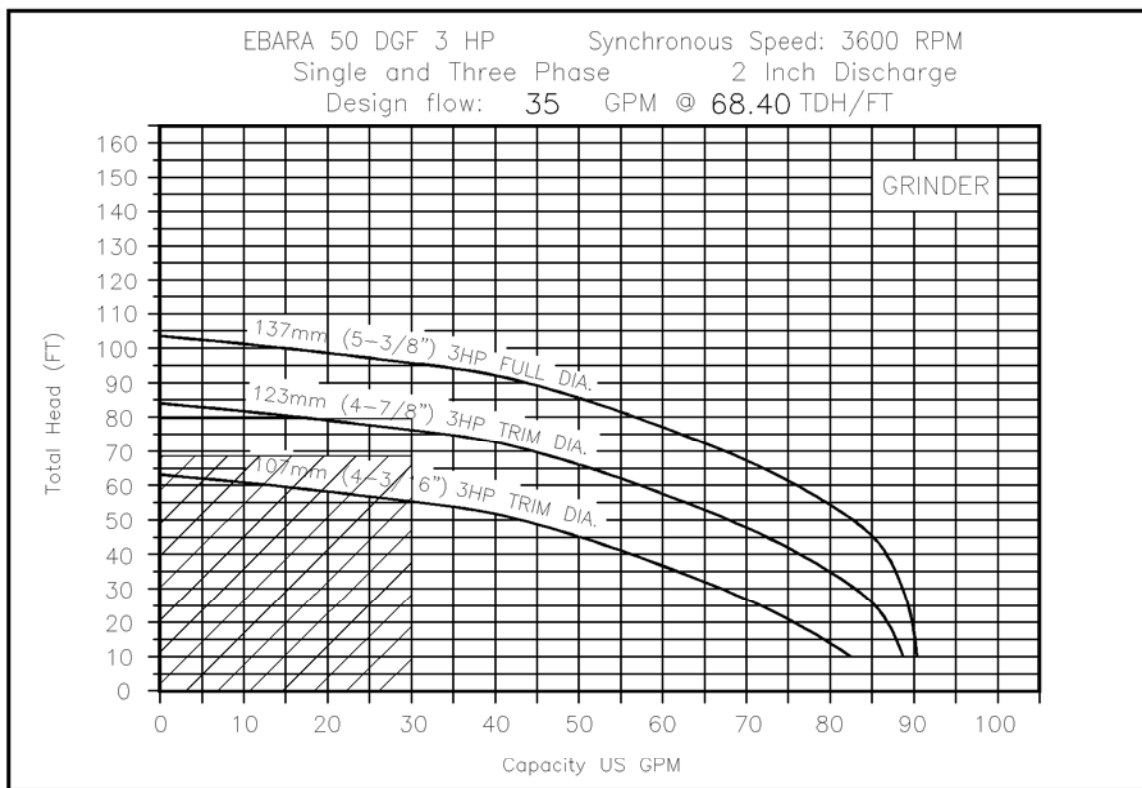
PIPING: 2" SCHEDULE 80 PVC.

FLOAT SWITCHES: UL LISTED SJ ELECTRO MODEL (SJ 30 SWENO).

PUMP SUPPLIER SHALL PROVIDE SUBMERSIBLE PUMPS, SLIDE RAIL ASSEMBLIES, CONTROL PANEL, JUNCTION BOX, FLOAT SWITCHES, ALUMINUM HATCH AND ACCESSORIES TO INSURE PROPER OPERATION AND WARRANTY.

THE COMPLETE PACKAGE PUMPING STATION SHALL HAVE PUMP BASES, SLIDE RAIL ASSEMBLIES AND DISCHARGE PIPING ASSEMBLED BY TECHNICAL SALES CORPORATION READY TO SHIP FOR FIELD INSTALLATION. THE MANUFACTURER OF PRE-FAB PUMP SOLUTIONS®

TECHNICAL SALES CORPORATION, 4621 N. HALE AVE TAMPA, FL 33614 (813)876-9256



PUMP PERFORMANCE CURVE

CONTROL PANEL -SHALL CONFORM TO FL DEP 64-604.42(A)

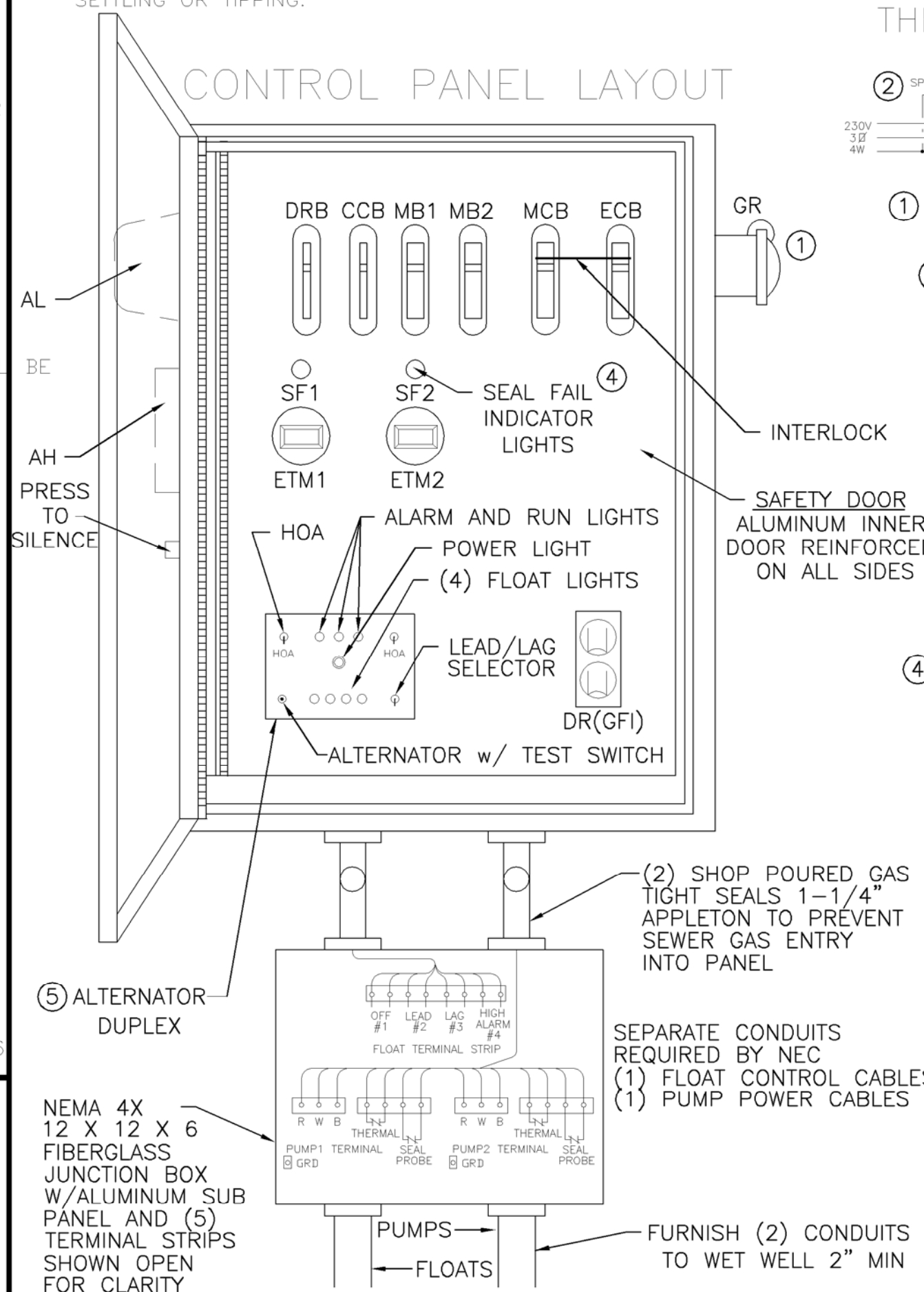
CONTROL PANEL SHALL BE TSC MODEL # 38-D IN NEMA 4X FIBERGLASS ENCLOSURE. THE PANEL SHALL MEET STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP), ENVIRONMENTAL PROTECTION COMMISSION (EPC) AND LOCAL CODE REQUIREMENTS GOVERNING PRIVATE LIFT STATIONS.

FLOAT SWITCHES AND CONTROL SYSTEM SHALL BE UL LISTED AND INTRINSICALLY SAFE. ALL COMPONENTS SHALL BE UL LISTED.

A JUNCTION BOX IS REQUIRED, WITH SHOP POURED SEALS BETWEEN BOX AND CONTROL PANEL TO PREVENT SEWER GAS ENTRY INTO CONTROL PANEL.

ELECTRICAL CONTRACTOR TO PROVIDE SERVICE DISCONNECT WITH LIGHTNING ARRESTOR MOUNTED PER LOCAL CODES.

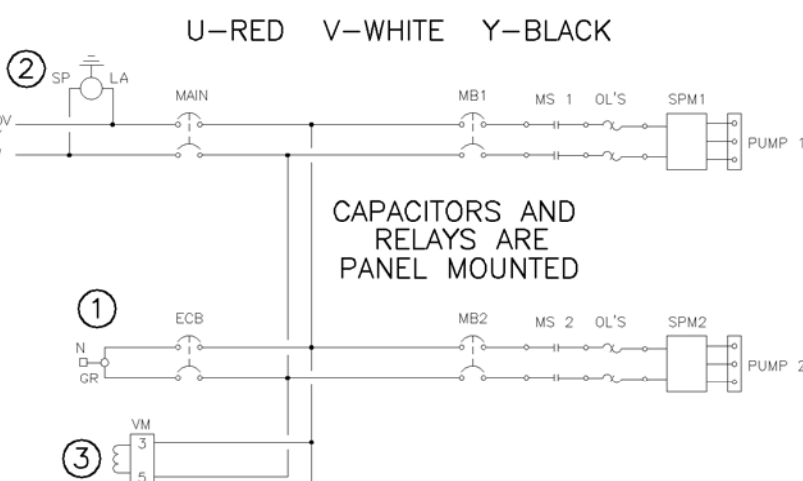
THE CONTROL PANEL SHALL BE SUITABLY INSTALLED TO PREVENT SETTLING OR TIPPING.



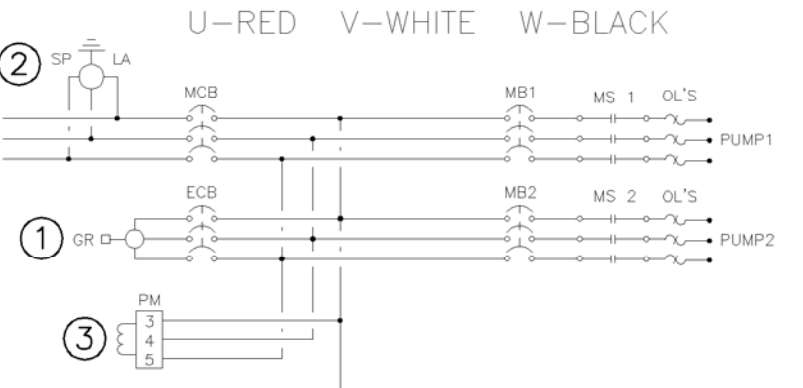
LEGEND

- AH ALARM HORN
- AL ALARM LIGHT
- ASB ALARM SILENCE BUTTON
- ATS ALTERNATOR W/ TEST SWITCH
- CCB CONTROL CIRCUIT BREAKER
- DR DUPLEX RECEPTACLE
- DRB DUPLEX RECEPTACLE BREAKER
- ECB EMERGENCY CIRCUIT BREAKER
- ETM ELAPSED TIME METER
- F FUSE
- FL FLASHER
- FS FLOAT SWITCH (REGULATOR)
- GR GENERATOR RECEPTACLE
- GRD GROUND
- HOA HAND-OFF-AUTOMATIC SELECTOR
- LA LIGHTNING ARRESTOR
- MB MOTOR BREAKER
- MCB MAIN CIRCUIT BREAKER
- MS MOTOR STARTER
- N NEUTRAL
- OL'S OVERLOAD HEATERS
- PM PHASE MONITOR
- PTS PUMP TERMINAL STRIP
- R RELAY
- RC RUN CAPACITOR
- RD DISCHARGE RESISTOR
- RL PUMP RUN INDICATORS
- RTS REGULATOR TERMINAL STRIP
- SC START CAPACITOR
- SF SEAL FAIL (SHAFT)
- SR START RELAY
- SP SURGE PROTECTOR
- TTS THERMAL TERMINAL STRIP

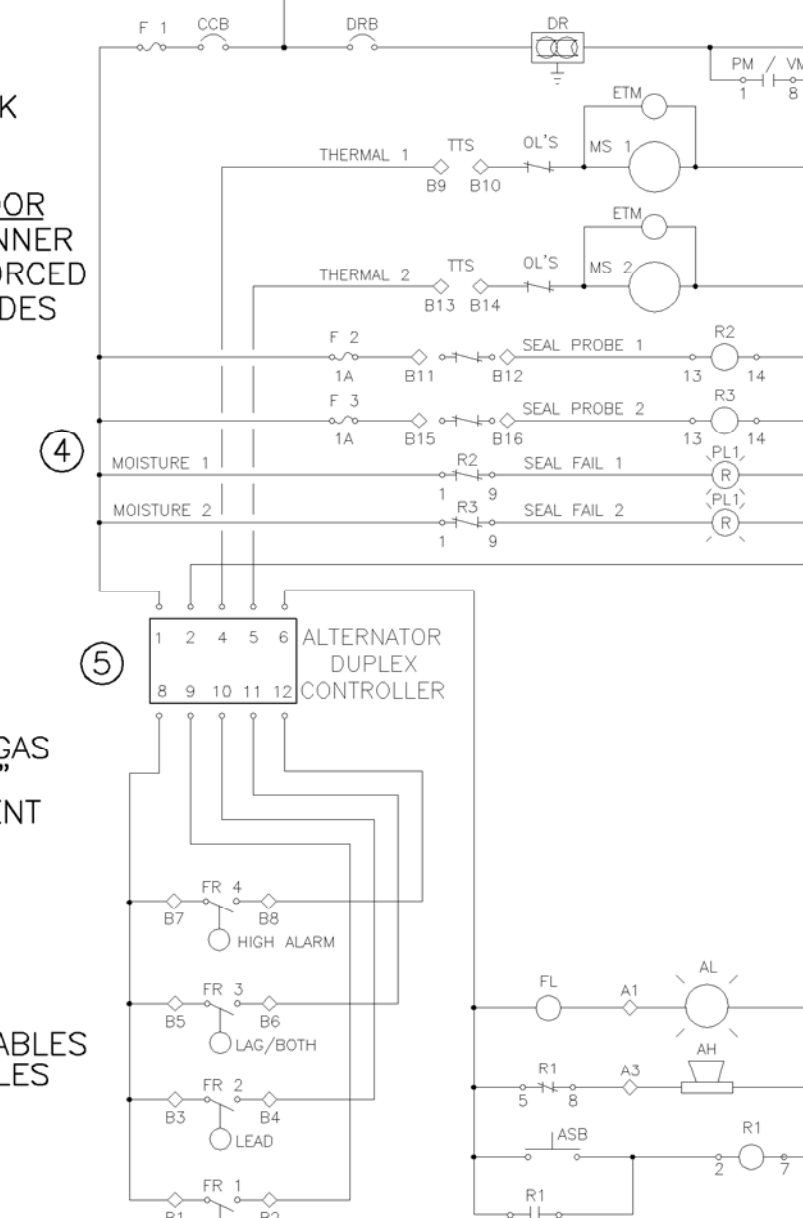
SINGLE PHASE WIRING DIAGRAM



THREE PHASE WIRING DIAGRAM



PANEL WIRING DIAGRAM



PANELS SHALL CONFORM TO FLORIDA DEP 64-604.400

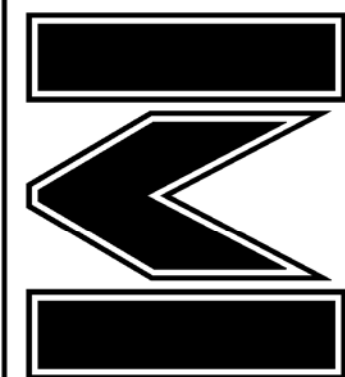
- GENERATOR RECEPTACLE FOR EMERGENCY POWER CONNECTION WITH INTERLOCK
- SURGE PROTECTION AND LIGHTNING PROTECTION ON ALL INCOMING LEGS
- PHASE PROTECTION SHALL BE PROVIDED
- SHAFT SEAL FAIL DETECTION
- ALTERNATOR W/ TEST SWITCH

PANEL MANUFACTURER SHALL BE A "UL" LISTED SHOP.

TSC DUPLEX GRINDER PUMP STATION
FIBERGLASS WET WELL

TECHNICAL SALES CORPORATION
TSC PRE-FAB PUMP SOLUTIONS®
WATERWORKS & WASTEWATER SPECIALTIES
Representing Innovative Manufacturers
MODEL TSCE2-48.0®
4621 N. HALE AVENUE PH (813)876-9256
TAMPA, FL 33614 FAX (813)874-1194
EMAIL: Sales@TSCtampa.com
REV-9 SCALE: N.T.S.

WALDROP ENGINEERING



CIVIL ENGINEERING &
LAND DEVELOPMENT CONSULTANTS
9432 CAMDEN FIELD PARKWAY RIVERVIEW, FL 33575
P: 813-443-9252 F: 813-443-9255 EMAIL: info@waldropengineering.com

FINAL SITE PLANS
TUSCANY WOODS NORTH

CLIENT: TAYLOR MORRISON OF FLORIDA, INC.

LIFT STATION DETAILS

PLAN REVISIONS	REVISED BY	DATE	REVISION
1	06/12/14	06/12/14	REVISED PER SWFMD AND CITY OF OLDSMAR COMMENTS

FLORIDA CERTIFICATE OF AUTHORIZATION #6636

R. TRENT STEPHENSON, P.E.
FL LICENSE NO. 99314

SET NUMBER: 377-01-01

SHEET: 14

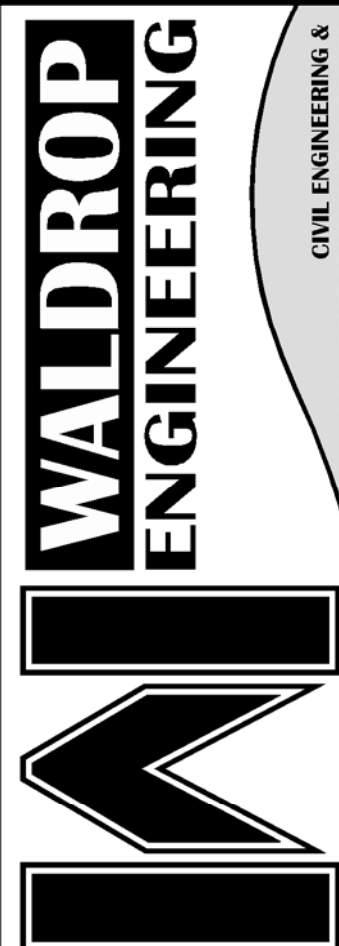


FINAL SITE PLANS

TUSCANY WOODS NORTH

CLIENT: TAYLOR MORRISON OF FLORIDA, INC.

BEST MANAGEMENT PRACTICE PLAN

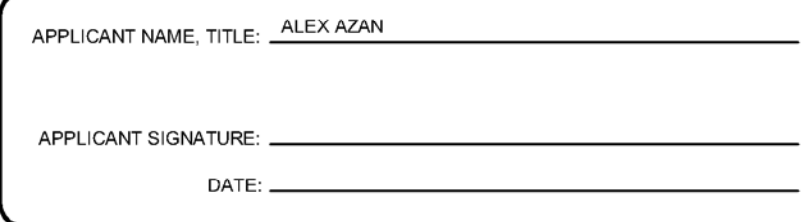


**CIVIL ENGINEERING &
PROJECT CONSULTANTS**

**CIVIL ENGINEERING &
LAND DEVELOPMENT CONSULTANTS**

9432 CAMDEN FIELD PARKWAY RIVERVIEW, FL 33578

P: 813-443-8282 F: 813-443-8285 EMAIL: info@waldropengineering.com



GENERAL NATURAL RESOURCE NOTES

IMPACTS TO STATE AND FEDERALLY PROTECTED SPECIES AS LISTED IN THE MOST CURRENT VERSION OF FLORIDA'S ENDANGERED SPECIES, THREATENED SPECIES, AND SENSITIVE SPECIES ACT. THE PROPOSED PROJECT MAY AFFECT THE FLORIDA FISHERY AND WILDLIFE CONSERVATION COMMISSION (FWC) ARE NOT LIMITED TO FLORIDA SCAUD. AMERICAN BOLD, EAGLE, HERMAN'S FOX, EASTERN INDIGO SNAKE. PROTECTION EXTENDS TO THE NESTS, BURROWS AND HABITAT UTILIZED BY THESE SPECIES. IF A LISTED SPECIES OR ITS ENVIRONMENT IS OBSERVED PRIOR TO OR DURING CONSTRUCTION ALL WORK SHALL BE STOPPED IMMEDIATELY. THE PROJECT OWNER SHALL CONSULT WITH THE FWC REGIONAL OFFICE AND/OR THE U.S. FISH AND WILDLIFE SERVICE (USFWS) FOR ADDITIONAL INFORMATION ON PROTECTIVE MEASURES AND PROVIDE EVIDENCE OF SUCH CONSULTATION TO RESOURCE PROTECT ON SERVICES (RPS) AND NEPA/MAJORS TO OBTAIN EITHER AN EARTHMOVING PERMIT OR LETTER OF EXEMPTION IS REQUIRED FROM RESOURCE PROTECTION SERVICES. IF ANY TYPE I FILL IS CALLED FOR SITE IS TO BE CONSIDERED A TYPE I FILL. TYPE I FILL IS LIMITED TO TYPE I FILL IN UNINCORPORATED AREAS OF SARASOTA COUNTY. THE RECEIVING FACILITY SHALL BE A TYPE I FILL. TYPE I FILL IS LIMITED TO TYPE I FILL IN EARTHMOVING PERMIT I. A WRITTEN EARTHMOVING EXEMPTION, A BUILDING EXEMPTION, OR A TYPE I FILL EXEMPTION MAY BE OBTAINED FROM THE FWC. NO TYPE B (CONCRETE, BROWN ASPHALT, ROCKS), TYPE C (VEGETATIVE LAND AND OPEN SPACE), TYPE D (WATER), TYPE E (WATER), TYPE F (WATER), TYPE G (WATER), TYPE H (WATER), TYPE I (WATER), TYPE J (WATER), TYPE K (WATER), TYPE L (WATER), TYPE M (WATER), TYPE N (WATER), TYPE O (WATER), TYPE P (WATER), TYPE Q (WATER), TYPE R (WATER), TYPE S (WATER), TYPE T (WATER), TYPE U (WATER), TYPE V (WATER), TYPE W (WATER), TYPE X (WATER), TYPE Y (WATER), TYPE Z (WATER), TYPE AA (WATER), TYPE AB (WATER), TYPE AC (WATER), TYPE AD (WATER), TYPE AE (WATER), TYPE AF (WATER), TYPE AG (WATER), TYPE AH (WATER), TYPE AI (WATER), TYPE AJ (WATER), TYPE AK (WATER), TYPE AL (WATER), TYPE AM (WATER), TYPE AN (WATER), TYPE AO (WATER), TYPE AP (WATER), TYPE AQ (WATER), TYPE AR (WATER), TYPE AS (WATER), TYPE AT (WATER), TYPE AU (WATER), TYPE AV (WATER), TYPE AW (WATER), TYPE AX (WATER), TYPE AY (WATER), TYPE AZ (WATER), TYPE BA (WATER), TYPE BB (WATER), TYPE BC (WATER), TYPE BD (WATER), TYPE BE (WATER), TYPE BF (WATER), 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BEST MANAGEMENT PRACTICES GUIDELINES

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|---|--|
| <p>1. INSTALL EROSION CONTROL DEVICES ALONG THE PROJECT BOUNDARY AND AS NEEDED TO PREVENT SOIL FROM LEAVING THE SITE.</p> <p>2. EROSION CONTROL DEVICES WILL BE BUILT TO PREVENT SOIL FROM LEAVING THE SITE AND SHALL BE INSTALLED PRIOR TO ANY SITE GRUBBING AND/OR DEMOLITION.</p> <p>3. STABILIZE ALL PERIMETER BERMS AND SLOPES TO PROTECT AGAINST EROSION.</p> <p>4. WARP INLET GRATES WITH FILTER FABRIC UNTIL THE DRAINAGE AREA DRAINING TO EACH INLET IS STABILIZED WITH EITHER PAVEMENT OR SOI.</p> <p>5. MAINTAIN SILT FENCE: HAY BALES, FILTER FABRIC, AND ALL OTHER EROSION CONTROL DEVICES UNTIL STABILIZATION IS COMPLETED TO PREVENT SOIL FROM LEAVING THE SITE.</p> <p>6. INSTALL ALL EROSION CONTROL DEVICES AS PER F.O.D.T. STANDARD INDEX 102 SERIES.</p> <p>7. IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION, STABILIZE THE EFFECTIVE AREA BY USING WETTING OR COVERING ACCEPTABLE METHODS.</p> <p>8. REMOVE ALL SILTATION ACCUMULATIONS GREATER THAN THE LESSER OF 12 INCHES OR ONE-HALF THE DEPTH OF THE SILTATION CONTROL DEVICE.</p> <p>9. REMOVE SILTATION ACCUMULATIONS IN ANY DRAINAGE PIPE AFFECTED BY CONSTRUCTION ACTIVITIES ON THE SITE PRIOR TO COMPLETION OF CONSTRUCTION.</p> <p>10. MAINTAIN ALL BERM ELEVATIONS DURING CONSTRUCTION.</p> <p>11. LOCATION OF EROSION CONTROL DEVICES MAY BE ADJUSTED DUE TO FIELD CONDITIONS.</p> <p>12. THE CONTRACTOR SHALL BE RESPONSIBLE TO SAFELY STORE EQUIPMENT, FUEL, OIL, AND OTHER HAZARDOUS DEVICES IN A DESIGNATED STORAGE AREA TO PREVENT SPILLS AND CONTAMINATION OF THE STORMWATER MANAGEMENT AND COLLECTION.</p> <p>13. SILT FENCE SHOWN ON THESE PLANS SHALL BE INSTALLED ALONG THE JURISDICTIONAL LINE, IF THERE IS A BUFFER IMPACT, ALL SILT FENCES SHALL BE LOCATED AT THE TOE OF SLOPE AS SHOWN ON THESE PLANS. NO SILT FENCE SHALL BE INSTALLED IN PROTECTED WETLANDS EXCEPT AS PROTECTION AGAINST TEMPORARY IMPACTS.</p> <p>14. ALL SILT FENCES SHALL BE 500' FROM THE CENTERLINE TO BACK OF LACONIA DRIVE (TOP OF BANK).</p> <p>15. SOO 2' WIDE STRIP BEHIND ALL CURBS AND EDGE OF PAVEMENT WHERE CURBS IS NOT PRESENT.</p> <p>16. SOO AROUND ALL INLETS, JUNCTION BOXES, ETC. AND GRASS ALL SWALES.</p> <p>17. TO PROTECT AGENCY / RESPONSIBLE AUTHORITY SHALL BE RESPONSIBLE FOR THE ROUTINE INSPECTION, MAINTENANCE, AND REMOVAL OF ALL WEATHER-RELATED PRODUCTS OF PINELAS COUNTY SUCH AS: TRASH, DEBRIS, AND OTHERS THAT ARE IN THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT AND THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT PROGRAM.</p> <p>18. TRACKING PREVENTION DEVICES TO BE LOCATED AS SHOWN ON PLANS AT ROADWAYS THAT CONNECT TO THE PROJECT.</p> <p>19. AT ALL TIMES DURING CONSTRUCTION, PROPER MEASURES MUST BE TAKEN TO PROTECT THE SURFACE WATER MANAGEMENT SYSTEM, ALL ROADWAY INLETS THAT RECEIVE SURFACE WATER RUN-OFF FROM CONSTRUCTION AREAS MUST BE PROTECTED FROM SILT AND OTHER MATERIALS THAT COULD CAUSE CLOGGING OF THE SYSTEM.</p> | <p>20. NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM:</p> <ul style="list-style-type: none"> a) NPDES CONSTRUCTION GENERIC PERMIT COVERAGE SHALL BE OBTAINED AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION COMMENCEMENT IN ACCORDANCE WITH RULE 62-001.00(4)(A), F.A.C. b) A COPY OF THE CERTIFIED NPDES NO. OR A COPY OF THE PDEP COVERAGE CONFIRMATION LETTER SHALL BE POSTED AT THE SITE IN ACCORDANCE WITH THE PINELLAS COUNTY CODE. c) A COPY OF THE CERTIFIED NPDES NO. OR A COPY OF THE PDEP COVERAGE CONFIRMATION LETTER SHALL BE PROVIDED TO WATER RESOURCES IN ACCORDANCE WITH THE PINELLAS COUNTY CODE. d) THE SWPPP SHALL BE CERTIFIED IN ACCORDANCE WITH RULE 62-021.300(4)(A) PART V.D.6, F.A.C., AND A COPY OF THE CERTIFIED DOCUMENT SHALL BE SUBMITTED TO WATER RESOURCES AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION PER THE PINELLAS COUNTY CODE. e) A COPY OF THE SWPPP AND COPIES OF THE INSPECTION AND MAINTENANCE RECORDS SHALL BE MAINTAINED AT THE PROJECT SITE AND SHALL BE READILY AVAILABLE TO COUNTY OR STATE INSPECTORS PER THE PINELLAS COUNTY CODE. <p>21) THE DISCHARGE OF GROUNDWATER PRODUCED THROUGH Dewatering, TO SURFACE WATERS OR TO ANY PORTION OF THE U.S.A. WILL REQUIRE SEPARATE PERMITTING FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP). PERMITS SHALL BE OBTAINED PRIOR TO THE COMMENCEMENT OF DEWATERING.</p> <p>22) TO DO WITHIN DETENTION LAKES UNLESS OTHERWISE APPROVED BY S.W.F.M.I.D.</p> <p>23) EROSION AND SEDIMENTATION CONTROL BMP'S IN ADDITION TO THOSE PRESENTED ON THE PLANS AND OUTLINED IN THE EROSION AND SEDIMENTATION CONTROL PLAN (ECP) OR STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE IMPLEMENTED AS NECESSARY TO PREVENT EROSION AND SEDIMENTATION FROM ENTERING RECEIVING WATERS. BMP'S SHALL BE DESIGNED, INSTALLED, AND MAINTAINED BY THE SITE OPERATOR TO ENSURE THAT OFF SITE WATER QUALITY IS PROTECTED. THE SITE OPERATOR SHALL HAVE AUTHORITY TO STOP WORK IF THE SITE OPERATOR OBSERVES OR OPERATES THE CONSTRUCTION ACTIVITY AND HAS AUTHORITY TO CONTROL THOSE ACTIVITIES AT THE PROJECT NECESSARY TO ENSURE COMPLIANCE.</p> <p>24) THE OPERATOR SHALL ENSURE THAT ADJACENT PROPERTIES ARE NOT IMPACTED BY WIND EROSION, OR EMISSIONS OF UNCONFINED PARTICULATE MATTER IN ACCORDANCE WITH RULES 62-009.3004(1)(c), c.f. TAKING APPROPRIATE MEASURES TO LIMIT AFFECTED AREAS.</p> <p>25) FUEL AND OTHER PETROLEUM PRODUCT SPILLS THAT RESULT IN STORMWATER DRAINS OR WATERBODIES, OR FUEL AND OTHER PETROLEUM PRODUCT SPILLS THAT EXCEEDS 25 GALLONS SHALL BE CONTAINED, CLEANED UP, AND IMMEDIATELY REPORTED TO PINELLAS COUNTY. SMALLER GROUNDWATER SPILLS SHALL BE CLEANED UP AS SOON AS PRACTICABLE.</p> <p>26) IF CONTAMINATED SOIL, OR ANOTHER GROUNDWATER IS DISCOVERED DURING DEVELOPMENT OF THE SITE, ALL ACTIVITY IN THE VICINITY OF THE CONTAMINATION SHALL IMMEDIATELY CEASE, AND PINELLAS COUNTY SHALL BE CONTACTED.</p> |
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PLAN REVISIONS	REV00 <<SUBMITTED / BID SET>> XXXX/XX
06/12/14	REVISED PER SWFWMD AND CITY OF OLD SMAR COMMENTS

[illegible]

FLORIDA CERTIFICATE OF AUTHORIZATION #8636

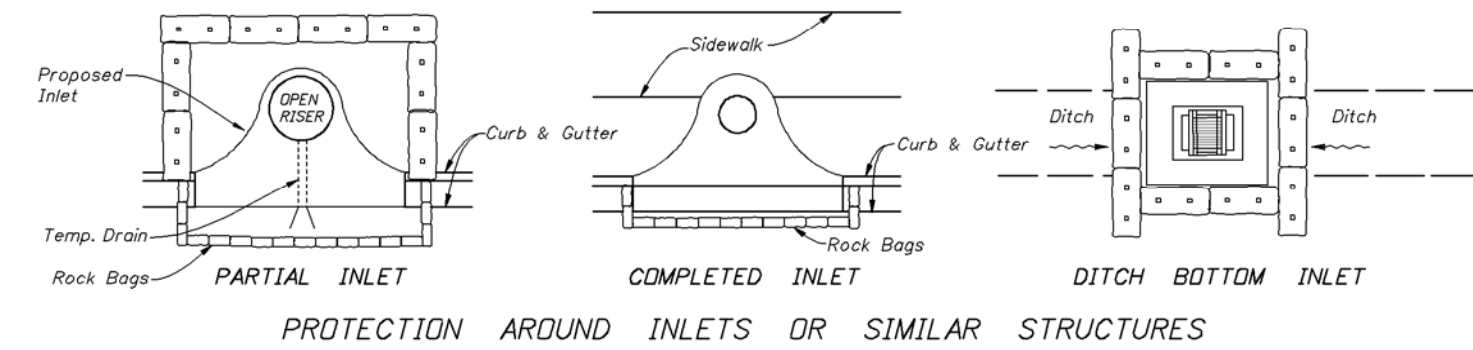
R. TRENT STEPHENSON, P.E.

SET NUMBER: 377-01-01

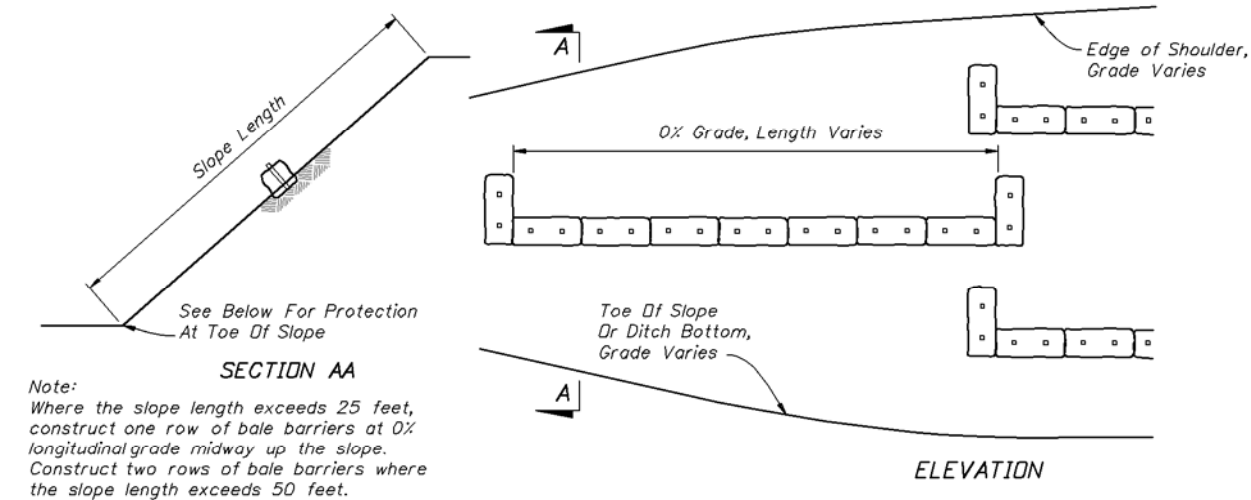
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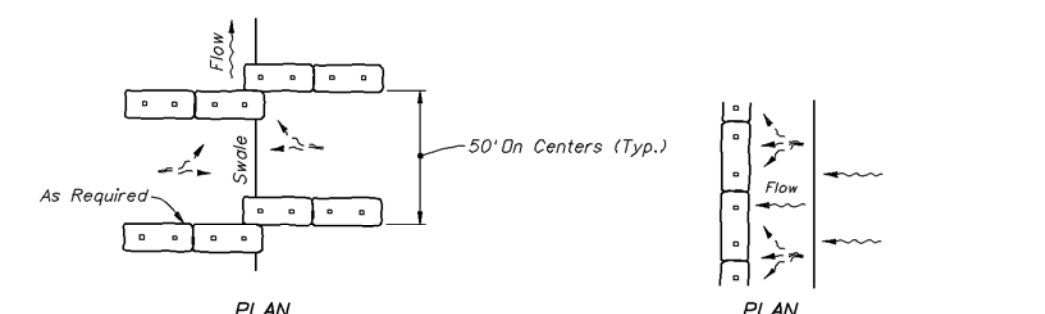
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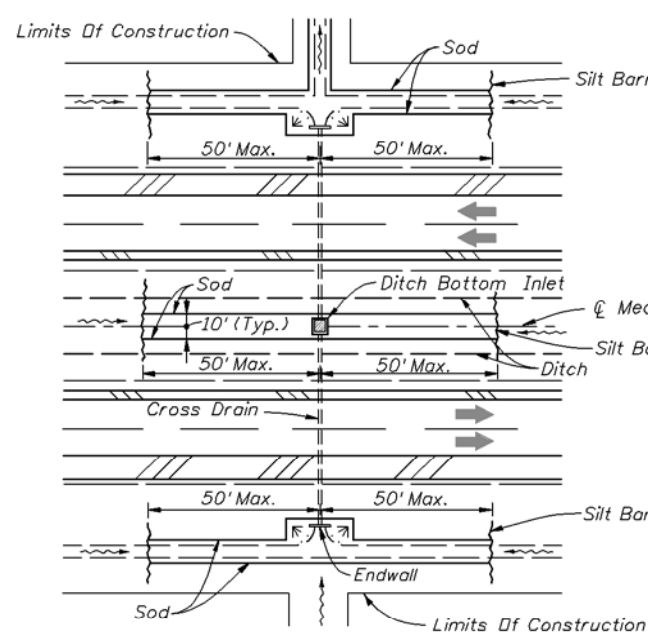
PROTECTION AROUND INLETS OR SIMILAR STRUCTURES



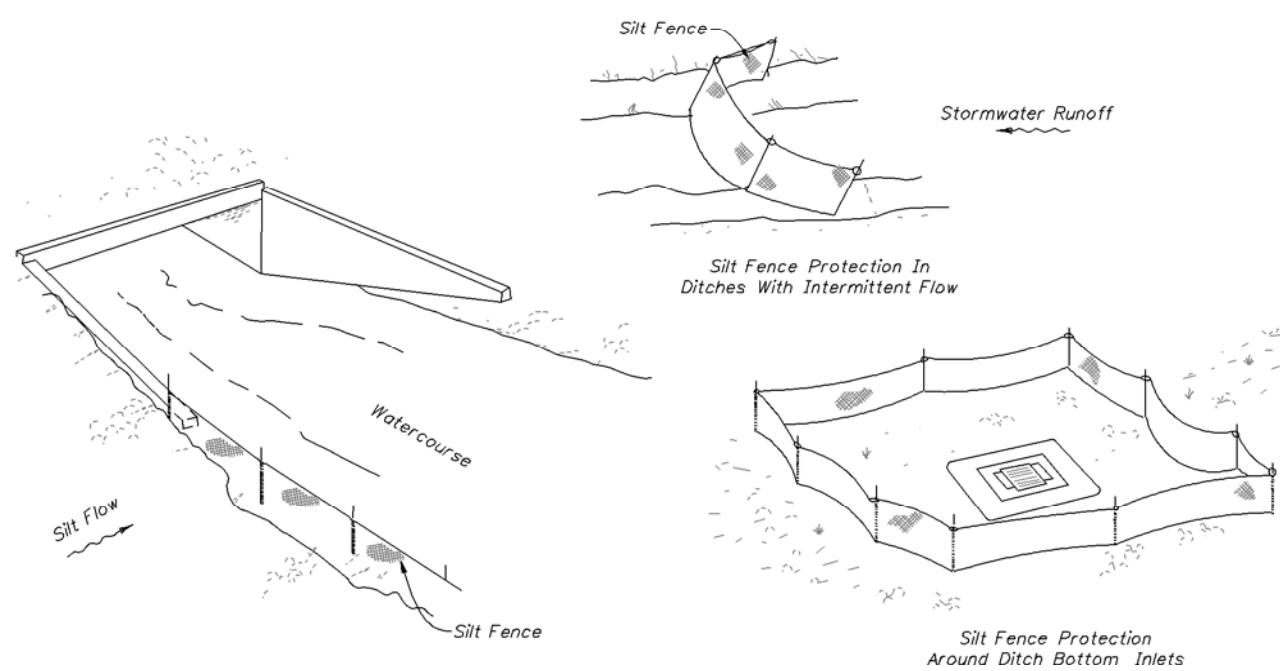
ALONG FILL SLOPE



AT TOE OF SLOPE
BARRIERS FOR FILL SLOPES



DITCH INSTALLATIONS AT DRAINAGE STRUCTURES



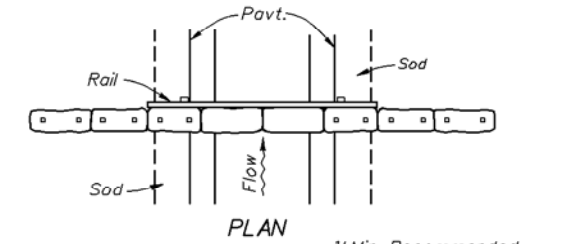
SILT FENCE APPLICATIONS

NOTES FOR SILT FENCES

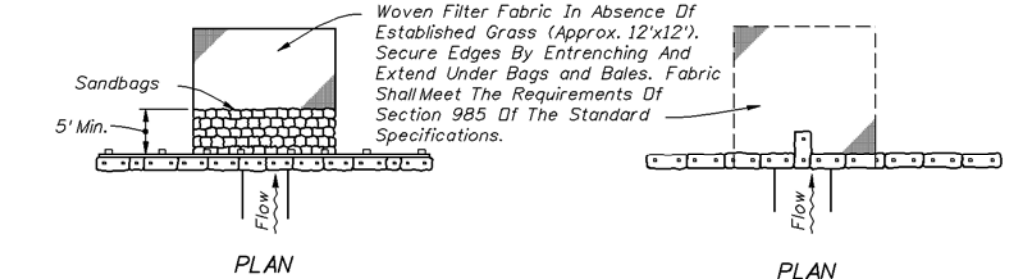
1. Type III Silt Fence to be used at most locations. Where used in ditches, the spacing for Type III Silt Fence shall be in accordance with Chart I, Sheet 1.
2. Type IV Silt Fence to be used where large sediment loads are anticipated. Suggested use is where fill slope is 1:2 or steeper and length of slope exceeds 25 feet. Avoid use where the detached water may back into travelways or off the right of way.
3. Do not construct silt fences across permanent flowing watercourses. Silt fences are to be on upland locations and turbidity barriers used at permanent bodies of water.
4. Where used as slope protection, Silt Fence is to be constructed on 0% longitudinal grade to avoid channelizing runoff along the length of the fence.
5. Silt Fence to be paid for under the contract unit price for Staked Silt Fence, (L.F.).

TEMPORARY EROSION AND SEDIMENT CONTROL

(REF. FDOT INDEX 102)



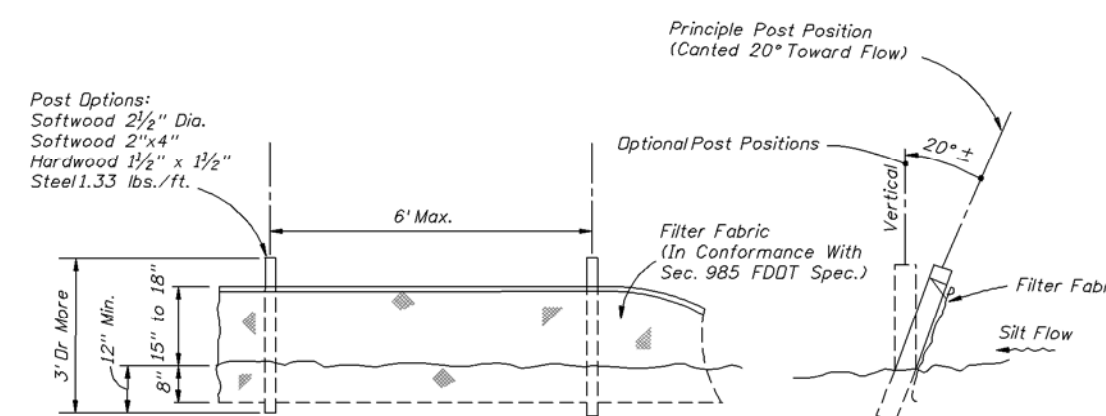
SYNTHETIC BALES OR BALE
TYPE BARRIERS FOR PAVED DITCHES



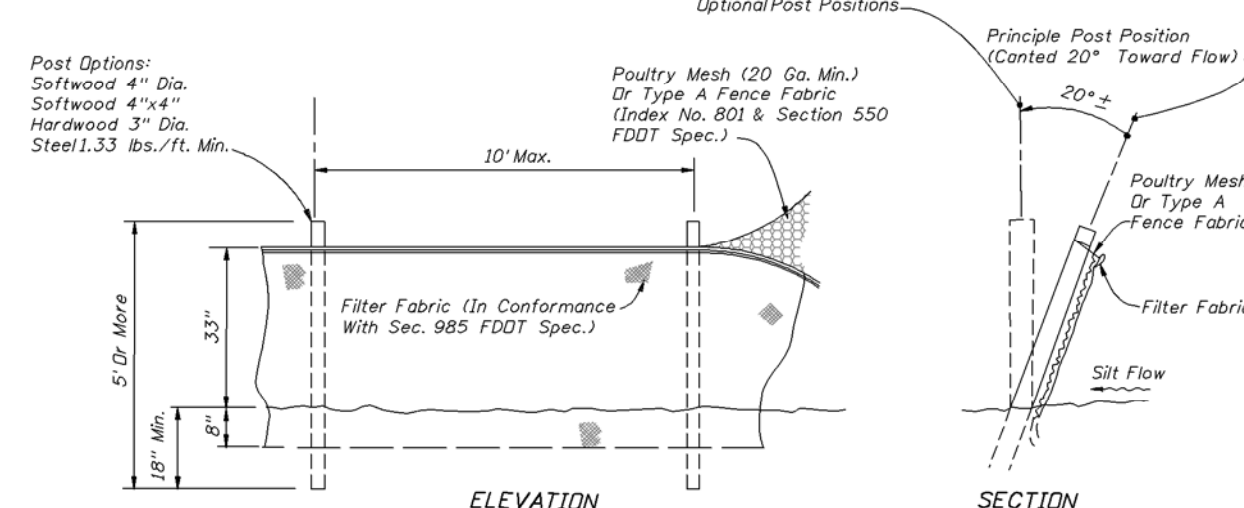
SYNTHETIC BALES OR BALE TYPE BARRIERS FOR UNPAVED DITCHES

NOTES FOR SYNTHETIC BALES OR BALE TYPE BARRIERS

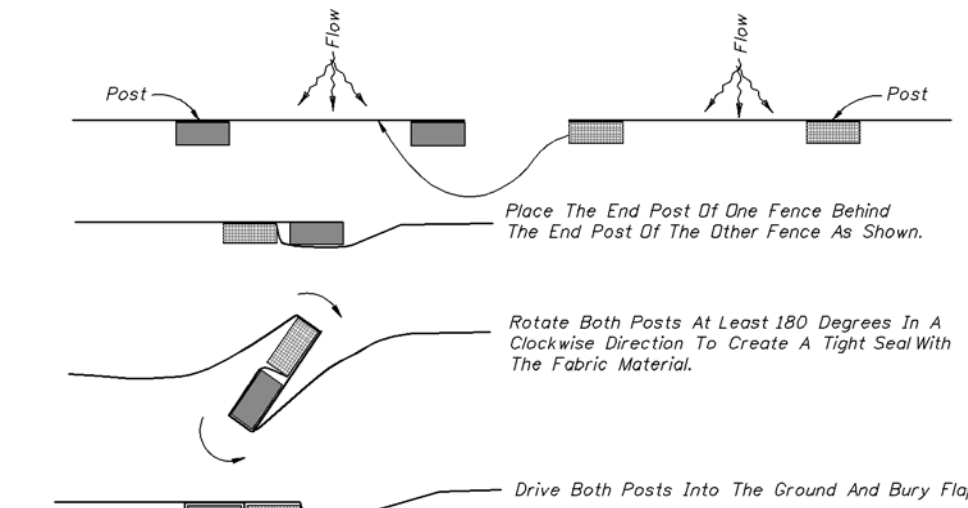
1. Type I and II Synthetic Barrier should be spaced in accordance with Chart I, Sheet 1.
2. Bales shall be trenched 3" to 4" and anchored with 2" x 4" or 1" dia. x 4" wood stakes. Stakes of other material or shape providing equivalent strength may be used if approved by the Engineer. Stakes other than wood shall be removed upon completion of the project.
3. Rails and posts shall be 2" x 4" wood. Other materials providing equivalent strength may be used if approved by the Engineer.
4. Adjacent bales shall be butted firmly together.
5. Where used in conjunction with silt fence, bales shall be placed on the upstream side of the fence.
6. Bales to be paid for under the contract unit price for Synthetic Bales, L.F. The unit price shall include the cost of filter fabric for Type I and II barriers. Sandbags shall be paid for under the unit price for Sandbagging, C.Y. Rock bags to be paid for under the contract unit price for Rock Bags, EA.



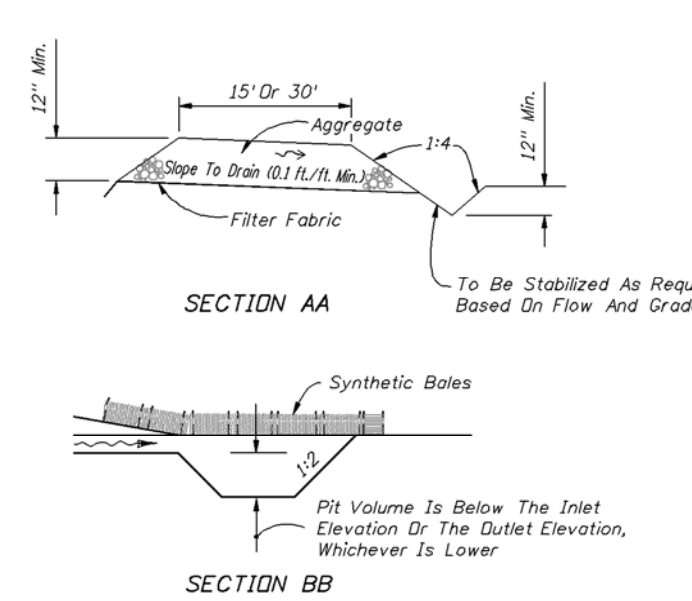
ELEVATION TYPE III SILT FENCE



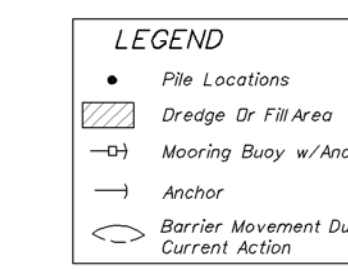
ELEVATION TYPE IV SILT FENCE



PLAN VIEW
JOINING TWO SILT FENCES

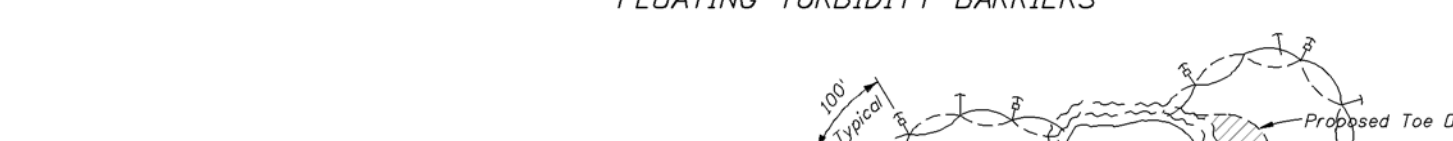


RURAL CONNECTION
DETAIL



- NOTES:
1. Turbidity barriers are to be used in all permanent bodies of water regardless of water depth.
 2. Number and spacing of anchors dependent on current velocities.
 3. Deployment of barrier around pile locations may vary to accommodate construction operations.
 4. Navigation may require segmenting barrier during construction operations.
 5. For additional information see Section 104 of the Standard Specifications.

LEGEND



TYPE II TYPE I

NOTES:

COMMENTS OF TYPES I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.

FLLOATING TURBIDITY BARRIERS

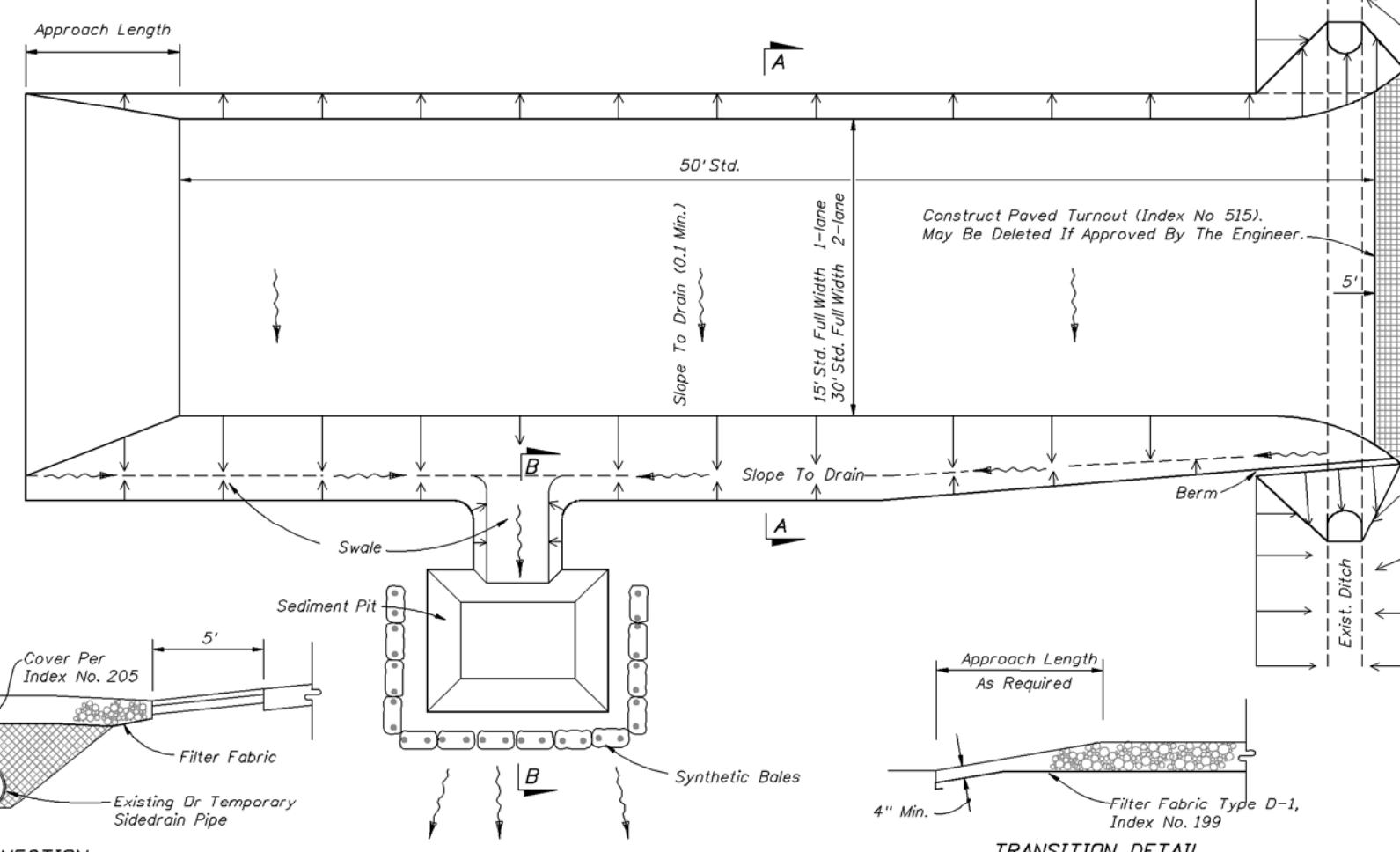


TURBIDITY BARRIER APPLICATIONS

TURBIDITY BARRIERS

(REF. FDOT INDEX 103)

N.T.S.



SOIL TRACKING PREVENTION DEVICE - TYPE A

(REF. FDOT INDEX 109)

N.T.S.

GENERAL NOTES

1. Floating turbidity barriers are to be paid for under the contract unit price for Floating Turbidity Barrier, L.F.
2. Staked turbidity barriers are to be paid for under the contract unit price for Staked Turbidity Barrier, L.F.

GENERAL NOTES

1. A Soil Tracking Prevention Device (STPD) shall be constructed at locations designated by the Engineer for points of access from unstable areas of the project to public roads where off-site tracking of mud could occur. Traffic from unstable areas, including construction equipment, shall be prevented from tracking mud onto public roads. The construction project shall be divided into a STPD. Barriers, flagging, or other positive means shall be used as required to limit and direct vehicle access across the STPD.
2. The Contractor may propose an alternative technique to minimize off-site tracking of sediment. The alternative must be reviewed and approved by the Engineer prior to its use.
3. All materials spilled, dropped, or tracked onto public roads including the STPD aggregate and construction mud shall be removed daily, or more frequently if so directed by the Engineer.
4. Aggregates shall be as described in Section 901 excluding 901-2.3. Aggregates shall be 50/100 size. If this size is not specified, the next smallest size aggregate may be substituted with the following pit volumes as follows: 15' x 50' x 100' ft. 30' x 50' x 200' ft. 1' as an option to the sediment pit, the width of the silt bottom can be increased to obtain the volume. When the sediment pit or silt volume has been reduced to one half it shall be cleaned. When a waste is used, synthetic bales or silt fence shall be placed along the entire length.
5. The silt area along the STPD shall be a 0.022 minimum and a 0.01 maximum grade along the STPD and to the sediment pit.
6. Mitered end sections are not required when the silt area pit satisfies the above requirements.
7. The STPD shall be maintained in a condition that will allow it to perform its function. To prevent off-site tracking, the STPD shall be cleaned daily when in use to move accumulated mud down the slope. Additional stabilization of the vehicular route leading to the STPD may be required to limit the mud tracks.
8. A STPD shall be paid for under the contract unit price for Soil Tracking Prevention Device (STPD), L.F. The unit price shall include all materials for construction, maintenance, replacement of materials, removal, and restoration of the silt area for the STPD including but not limited to excavation, grading, temporary pipe (including M20 when required), filter fabric, aggregate, silt fence, silt fence stabilization, sediment removal and disposal, waterway and erosion of the STPD and cleaning of public roads, grading and soil. Synthetic Bales or Bale Type Barrier shall be paid for under the contract unit price for Synthetic Bales, L.F. Silt fence shall be paid for under the contract unit price for Staked Silt Fence, L.F.
9. The nominal size of a standard STPD is 15' x 50' unless otherwise specified. The volume of entering and exiting vehicles shall be less than 150' STPD may be used if approved by the Engineer. When the width 150' STPD is used, the pit quantity shall be 2 for each location.

WALDROP
ENGINEERING



FINAL SITE PLANS
TUSCANY WOODS NORTH

CLIENT: TAYLOR MORRISON OF FLORIDA, INC.

BEST MANAGEMENT PRACTICE PLAN DETAILS

CIVIL ENGINEERING &
LAND DEVELOPMENT CONSULTANTS

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P: 813-443-8282 F: 813-443-8285 EMAIL: info@waldropengineering.com

PLAN REVISIONS		REVISIONS	DATE	BY	APP'D
REVISIONS		06/01/14			
SUBMITTED		06/01/14			
REVISED PER SWFWMD AND CITY OF OLDSMAR COMMENTS		06/01/14			
FLORIDA CERTIFICATE OF AUTHORIZATION #6636					
R. TRENT STEPHENSON, P.E. FLC#1506-00014					
SET NUMBER:		377-01-01			
SHEET:		16			