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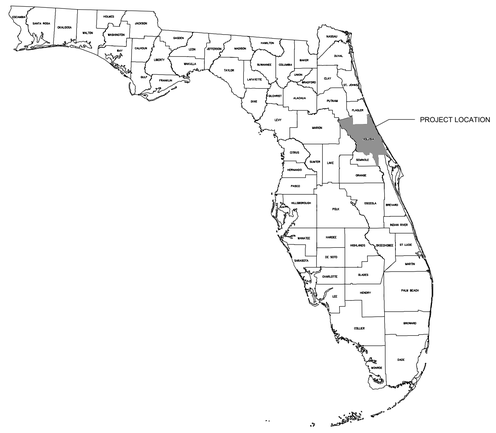
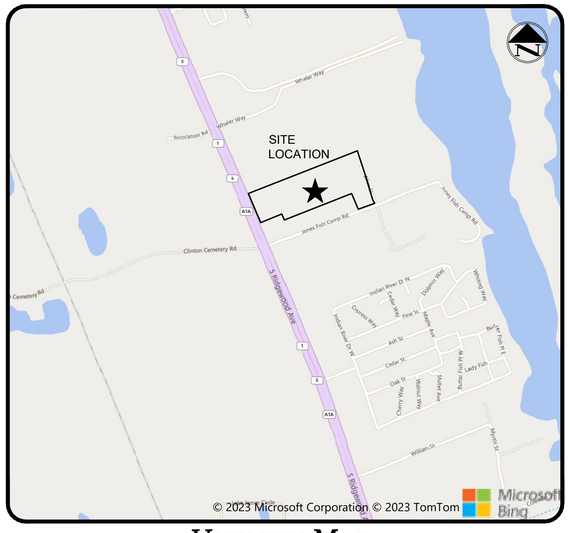


Construction Plans For

YARDLY

EDGEWATER RIVER OAKS

Section 38, Township 18 South, Range 34 East
Volusia County, Florida



Vicinity Map

N.T.S.

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PROPERTY DESCRIPTION

Legal Description Provided By: Sliger & Associates, Inc.

Description:

BEGIN AT THE SOUTHWEST CORNER OF LOT 6, PLAT OF RIVERFRONT ESTATES, AS RECORDED IN MAP BOOK 19, PAGE 18, OF THE PUBLIC RECORDS OF VOLUSIA COUNTY, FLORIDA; THENCE RUN N23°00'28"W ALONG THE WESTERLY LINE OF SAID LOT 6 ALSO BEING THE EASTERLY RIGHT OF WAY LINE OF U.S. HIGHWAY NO. 1 (250' R/W)(DEED BOOK 285, PAGE 125), 100.21 FEET TO THE NORTHERLY LINE OF THE SOUTH 100 FEET OF SAID LOT 6; THENCE DEPART SAID WESTERLY LINE N68°36'30"E ALONG THE NORTHERLY LINE OF THE SOUTH 100 FEET OF SAID LOT 6, A DISTANCE OF 1550.98 FEET TO THE CENTERLINE OF A DRAINAGE DITCH; THENCE DEPART SAID NORTHERLY LINE ALONG THE CENTERLINE OF SAID DRAINAGE DITCH THE FOLLOWING FIVE COURSES, S17°59'27"E, 221.51 FEET; THENCE S18°30'32"E, 175.51 FEET; THENCE S15°36'53"E, 170.49' FEET; THENCE S17°57'04"E, 116.71 FEET; THENCE S29°04'41"E, 48.78 FEET TO THE SOUTHERLY LINE OF SAID LOT 28, PLAT OF RIVERFRONT ESTATES UNIT NO. 2, AS RECORDED IN MAP BOOK 19, PAGE 31, OF THE PUBLIC RECORDS OF VOLUSIA COUNTY, FLORIDA SAID LINE ALSO BEING THE NORTH RIGHT OF WAY LINE OF JONES FISH CAMP ROAD (PLATTED THOMAS STREET) (60' R/W); THENCE S69°37'39"W ALONG SAID SOUTHERLY LINE OF SAID LOT 28 AND THE SOUTHERLY LINE OF SAID VACATED PORTION OF ALICE STREET AND THE SOUTHERLY LINE OF SAID LOT 25, A DISTANCE OF 231.45 FEET TO THE WESTERLY LINE OF THE EAST 100 FEET OF SAID LOT 25; THENCE DEPART SAID SOUTHERLY LINE N22°56'31"W ALONG THE WESTERLY LINE OF THE EAST 100 FEET OF SAID LOT 25, A DISTANCE OF 226.37 FEET TO THE SOUTHERLY LINE OF SAID LOT 26; THENCE S68°36'34"W ALONG THE SOUTHERLY LINE OF SAID LOTS 26, 16, 13 AND THE SOUTHERLY LINE OF THE SAID VACATED PORTION OF NELLIE STREET, A DISTANCE OF 959.76 FEET TO THE WESTERLY LINE OF SAID LOT 13; THENCE N22°59'09"W ALONG WESTERLY LINE OF SAID LOT 13, A DISTANCE OF 85.48 FEET; THENCE DEPART SAID WESTERLY LINE S68°02'26"W, A DISTANCE OF 299.92 FEET TO THE WEST LINE OF LOT 2 ALSO BEING AFORESAID EASTERLY RIGHT OF WAY LINE OF U.S. HIGHWAY 1; THENCE ALONG SAID WESTERLY LINE OF LOT 2 AND LOT 1 N23°00'028"W, A DISTANCE OF 317.93 FEET TO THE POINT OF BEGINNING.

CONTAINING 793,384 SQ FT, 18.214 ACRES MORE OR LESS.

VERTICAL DATUM INFORMATION

ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND ARE RELATIVE TO THE NATIONAL GEODETIC SURVEY BENCHMARK N-211 HAVING A PUBLISHED ELEVATION OF 12.11 FEET (NAVD 88)

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L 6.0	IRRIGATION DETAILS
L 7.0	GENERAL LANDSCAPE NOTES

BRANDON D. MACHIELA LICENSE NO. 90686 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by Brandon Machiela
Date: 2024.07.16 14:19:07-04'00'

LVJ UP

CONSTRUCTION PLAN REVISIONS	REV 00 <=> XX/XX/XX
1	03/29/24 REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
2	04/26/24 REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
3	06/18/24 REVISED PER CITY OF EDGEWATER
4	07/15/24 REVISED PER CITY OF EDGEWATER

Engineering Business Certificate of Authorization No. 32771
Florida Certificate of Authorization No. LC26000638

BRANDON D. MACHIELA LICENSE NO. 90686 STATE OF FLORIDA PROFESSIONAL ENGINEER

BRANDON D. MACHIELA
FLORIDA LICENSED PROFESSIONAL ENGINEER
REGISTRATION NUMBER 90686

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GENERAL UTILITY NOTES

1.) PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN FROM THE ENGINEER OR OWNER A COPY OF ALL PERTINENT PERMITS RELATED TO THIS PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASSURE THAT ALL CONSTRUCTION ACTIVITIES ARE IN COMPLIANCE WITH THE CONDITIONS OF ALL PERMITS AND APPROVALS.

2.) STABILIZATION OF ALL DISTURBED AREAS BY SOD, TO BE MAINTAINED UNTIL ESTABLISHMENT. SEED & MULCH IS PERMITTED AS TEMPORARY STABILIZATION BMP FOR DISTURBED AREAS NOT YET BUILT TO FINAL GRADE.

3.) FLORIDA LAW (F.S. 556) UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT MANDATES THAT EXCAVATORS/CONTRACTORS SHALL CONTACT SUNSHINE 811 (FKA: SUNSHINE STATE ONE-CALL OF FLORIDA) BY CALLING 800-432-4770 OR 811 AT LEAST 2 FULL BUSINESS DAYS PRIOR TO BEGINNING ANY EXCAVATION OR DEMOLITION TO ALLOW MEMBER OPERATORS AN OPPORTUNITY TO IDENTIFY AND MARK THEIR UNDERGROUND FACILITIES AND APPROPRIATELY RESPOND TO THE POSITIVE RESPONSE SYSTEM.

4.) ALL UTILITY SYSTEM-DESIGN MATERIALS AND WORKMANSHIP SHALL COMPLY WITH CITY OF EDGEWATER UTILITY PROVIDER STANDARDS AND DETAILS FOR THE DESIGN AND CONSTRUCTION OF WATER , WASTEWATER, AND RECLAIMED WATER FACILITIES SPECIFICATIONS.

5.) CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL ROAD CROSSING OR UTILITY PERMITS.

6.) THE FIELD-SURVEYED OR REPORTED LOCATIONS OF ALL EXISTING UNDERGROUND AND ABOVE-GROUND UTILITIES KNOWN TO EXIST AT THE TIME OF PLANS PRODUCTION HAVE BEEN DEPICTED HEREON, HOWEVER CONFLICTS BETWEEN EXISTING AND PROPOSED UTILITIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD IMMEDIATELY.

7.) CONTRACTOR SHALL VERIFY LOCATIONS AND DEPTHS OF EXISTING WATER AND SEWER LINES PRIOR TO BEGINNING CONSTRUCTION.

8.) THE LOCATIONS AND ELEVATION OF ALL SERVICE LINES ARE TO BE DETERMINED IN THE FIELD BY OWNER AND/OR CONTRACTOR PRIOR TO CONSTRUCTION OF SAME.

9.) FIRE HYDRANT, GATE VALVE AND BLOW-OFF VALVE ASSEMBLIES SHALL CONSIST OF ALL PIPE, VALVES, TEES, FITTINGS, AND ANY AND ALL OTHER APPURTENANCES COMPRISING A COMPLETE, WORKING UNIT.

10.) ALL FIRE HYDRANTS SHALL BE FLOW TESTED AND COLOR CODED BASED ON FLOW RESULTS IN ACCORDANCE WITH APPROPRIATE UTILITY PROVIDER SPECIFICATIONS. RESULTS SHALL BE SUBMITTED TO CITY OF EDGEWATER FIRE RESCUE AND CITY OF EDGEWATER UTILITIES.

11.) ALL DUCTILE IRON (DIP) POTABLE WATER MAIN PIPING SHALL BE IN ACCORDANCE WITH ANSI/AWWA C150/A21.50 AND MANUFACTURED TO ANSI/AWWA C151/A21.51, AND SUPPLIED WITH RUBBER GASKET PUSH-ON JOINTS IN ACCORDANCE WITH ANSI/AWWA C111/A21.11. PIPE SHALL BE SUPPLIED WITH MINIMUM PRESSURE CLASS 350.

12.) ALL PVC WATER MAIN PIPE SHALL CONFORM TO THE REQUIREMENTS FOUND IN AWWA STANDARD, LATEST EDITION AT THE TIME OF PLAN APPROVAL AND BE AS FOLLOWS: WATER MAINS 3" AND LESS IN DIAMETER SHALL MEET THE REQUIREMENT OF AWWA C-901/906; PVC PIPES 4"-24" IN DIAMETER SHALL MEET THE REQUIREMENT OF AWWA C-900.

13.) ALL WATER MAIN PIPE AND FITTINGS INSTALLED UNDER THIS PROJECT SHALL BE COLOR CODED OR MARKED IN ACCORDANCE WITH SUBPARAGRAPH 62-555.320(21)(B)3, FLORIDA ADMINISTRATIVE CODES, USING BLUE AS THE PREDOMINANT COLOR.

14.) REUSE WATER MAINS, VALVES, AND SERVICES SHALL INCLUDE THE FOLLOWING TO AVOID CONFUSION WITH POTABLE SYSTEM:
a. ALL PVC REUSE PIPING SHALL BE PURPLE PIGMENTED OR MARKED.
b. ALL PVC REUSE PIPE SHALL CONFORM TO THE REQUIREMENTS FOUND IN AWWA STANDARD, LATEST EDITION AT THE TIME OF PLAN APPROVAL AND BE AS FOLLOWS: 4" AND LARGER SHALL MEET THE REQUIREMENT OF AWWA C-900 STANDARDS.
c. ALL DUCTILE IRON (DIP) REUSE PIPING SHALL BE IN ACCORDANCE WITH ANSI/AWWA C150/A21.50 AND MANUFACTURED TO ANSI/AWWA C151/A21.51, AND SUPPLIED WITH RUBBER GASKET PUSH-ON JOINTS IN ACCORDANCE WITH ANSI/AWWA C111/A21.11. PIPE SHALL BE SUPPLIED WITH MINIMUM PRESSURE CLASS 250.
d. SQUARE TOP VALVE BOXES FOR ISOLATION VALVES IN SYSTEM, WITH COVERS MARKED "RECLAIMED."
e. PURPLE STRIPE ON CURB TO IDENTIFY REUSE WATER SERVICES.
f. ONE INCH SERVICES FOR REUSE WATER SERVICES.
g. PURPLE MAGNETIC LOCATING TAPE, STATING "REUSE MAIN BURIED BELOW" OVER ALL REUSE WATER MAINS (18 INCHES BELOW GRADE).
h. RECLAIMED WATER SERVICE ON OPPOSITE LOT LINE FROM POTABLE SERVICE.

15.) ALL ASPECTS OF REUSE WATER SYSTEM MUST COMPLY WITH CHAPTER 62-610, F.A.C., LATEST EDITION.

16.) ALL 8" SANITARY SEWER PIPE SHALL BE CONSTRUCTED AT A 0.40% MINIMUM SLOPE UNLESS OTHERWISE NOTED.

17.) SANITARY SEWER MAINS WITH INVERT ELEVATIONS FROM 0-18 FEET BELOW FINISHED GRADE SHALL BE CONSTRUCTED OF SDR-26 PVC PIPE. SANITARY SEWER MAINS WITH INVERT ELEVATIONS GREATER THAN 18 FEET BELOW FINISHED GRADE SHALL BE CONSTRUCTED OF C-900 DR 18 PVC PIPE.

18.) FORCE MAINS SHALL BE CONSTRUCTED OF C-900 DR 18 PVC PIGMENTED GREEN.

19.) ADJUSTING MANHOLE TOPS TO MATCH GRADE AND SLOPE OF THE FINISH PAVING SHALL BE INCLUDED IN THE RESPECTIVE CONTRACT UNIT PRICE FOR MANHOLES, PAYMENT OF WHICH WILL CONSTITUTE FULL COMPENSATION FOR THE CONSTRUCTION AND COMPLETION OF THE MANHOLE, AND NO ADDITIONAL PAYMENT WILL BE ALLOWED OR MADE FOR ADJUSTING MANHOLE TOPS.

20.) BENDS SHALL BE INSTALLED IN FORCE MAIN, WATER MAIN OR REUSE MAIN TO AVOID UNFORESEEN CONFLICTS IN EXISTING OR PROPOSED STRUCTURES.

21.) THE JOINT DEFLECTION METHOD SHALL BE USED WHERE PRACTICAL IN LIEU OF INSTALLING BENDS. THE MAXIMUM ALLOWED DEFLECTION SHALL NOT EXCEED 5% OF THE MANUFACTURER'S RECOMMENDATIONS.

22.) ALL VALVE BOX ASSEMBLIES LOCATED WITHIN ROADWAYS OR PARKING AREAS SHALL BE PROTECTED FROM TRUCK TRAFFIC BY USE OF 6" THICK REINFORCED CONCRETE PADS POURED AROUND VALVE BOXES (SEE DETAIL).

23.) CONNECTIONS INTO EXISTING APPROPRIATE UTILITY PROVIDER-OWNED SYSTEMS SHALL BE VIA WET TAP. WET TAPS SHALL BE PERFORMED BY A COMPANY APPROVED BY THECITY OF EDGEWATER FOR AND AT THE EXPENSE OF THE CONTRACTOR. MATERIAL FOR WET TAPS LARGER THAN 2" SHALL BE PROVIDED AND INSTALLED BY THE PROJECT CONTRACTOR. EXCAVATION, BACKFILL AND SURFACE RESTORATION SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

24.) GATE VALVES INSTALLED FOR PHASING SHALL BE RESTRAINED PER CURRENT APPROPRIATE UTILITY PROVIDER STANDARDS.

25.) OFF-ROAD UTILITY EASEMENTS SHALL BE "STABILIZED" FOR ACCESS BY MAINTENANCE VEHICLES.

26.) STUB-OUT LINES ON THE WATER MAIN, FORCE MAIN, AND REUSE MAIN SHALL HAVE RESTRAINED JOINTS FROM THE MAIN LINE TO THE STUB-OUT.

27.) ALL PVC AND DIP PRESSURE PIPES SHALL HAVE A MINIMUM OF 36" OF COVER.

28.) MAINTAIN 5' MINIMUM HORIZONTAL SEPARATION, OUTSIDE OF PIPE TO OUTSIDE OF PIPE, BETWEEN REUSE MAINS AND WATER MAINS OR FORCE MAINS.

29.) ALL WATER MAINS SHALL BE DEFLECTED VERTICALLY WHERE CROSSING STORM SEWER PIPE TO OBTAIN A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE STORM SEWER. JOINTS SHALL BE LOCATED SUCH THAT THE DISTANCE FROM THE STORM SEWER AND WATER MAIN JOINT IS AS FAR AS PRACTICAL.

30.) WATER MAINS SHOULD BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED STORM SEWER.

31.) AT NO TIME SHOULD VERTICAL CLEARANCE BETWEEN FORCE MAIN OR GRAVITY SEWER AND WATER MAIN BE LESS THAN 18" AT CROSSING OF SAME.

32.) AT NO TIME SHOULD HORIZONTAL CLEARANCE BETWEEN FORCE MAIN OR GRAVITY SEWER AND WATER MAIN BE LESS THAN 10' WHEN SAME ARE PARALLELING EACH OTHER.

33.) SANITARY SEWERS, FORCE AND REUSE MAINS AND STORM SEWERS SHOULD CROSS UNDER WATER MAINS. SANITARY SEWERS, FORCE AND REUSE 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.

34.) WHEN SANITARY SEWERS, FORCE AND REUSE MAINS MUST CROSS A WATER MAIN WITH LESS THAN 18 INCHES VERTICAL DISTANCE, BOTH THE SEWER AND THE WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP) AT THE CROSSING. SUFFICIENT LENGTHS OF DIP MUST BE USED TO PROVIDE A MINIMUM 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.

35.) WHERE THERE IS NO ALTERNATIVE TO SEWER AND REUSE PIPES CROSSING OVER A WATER MAIN, THE CRITERIA FOR MINIMUM SEPARATION OF 18 INCHES BETWEEN LINES AND 10 FEET BETWEEN JOINTS SHALL BE REQUIRED.

36.) ALL CROSSINGS SHALL BE ARRANGED SO THAT THE SEWER AND REUSE PIPES JOINTS AND THE WATER MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING (PIPES CENTERED ON THE CROSSING).

37.) 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.

38.) A MINIMUM 10-FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED IN PARALLEL INSTALLATIONS BETWEEN ANY TYPE OF SEWER (INCLUDING DRAINAGE INLETS) AND WATER MAIN WHENEVER POSSIBLE. A MINIMUM 5-FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED IN PARALLEL INSTALLATION BETWEEN REUSE WATER MAINS AND WATER MAINS, AND BETWEEN REUSE WATER MAINS AND SANITARY SEWERS WHENEVER POSSIBLE.

39.) IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10-FOOT HORIZONTAL SEPARATION BETWEEN ANY TYPE OF PARALLEL SEWER AND WATER MAIN, OR A 5-FOOT SEPARATION BETWEEN REUSE MAIN AND WATER MAIN, THE WATER MAIN MUST BE LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER, REUSE MAIN, 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.

40.) WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 18 INCHES OR A HORIZONTAL DISTANCE OF 10 FEET IN PARALLEL INSTALLATIONS, THE WATER MAIN SHALL BE CONSTRUCTED OF DIP AND THE SEWER, REUSE MAIN 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 BE ABOVE THE SEWER, REUSE MAIN, OR FORCE MAIN. JOINTS ON THE WATER MAIN SHALL BE LOCATED AS FAR APART AS POSSIBLE FROM JOINTS ON THE SEWER, REUSE MAIN, OR FORCE MAIN (STAGGERED JOINTS).

41.) ALL SUBSURFACE CONSTRUCTION SHALL COMPLY WITH THE "TRENCH SAFETY ACT." THE CONTRACTOR SHALL ENSURE THAT THE METHOD OF TRENCH PROTECTION AND CONSTRUCTION IS IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS.

42.) THE APPROPRIATE UTILITY PROVIDER SHALL NOT OWN OR MAINTAIN WATER AND SEWER LINES OR FACILITIES ON-SITE.

43.) SANITARY SEWER MANHOLES CONSTRUCTED IN UNPAVED AREAS SHALL BE STABILIZED WITH 6" THICK COMPACTED LIME ROCK (LBR 100) FOR A TEN FOOT RADIUS.

44.) THE CONTRACTOR SHALL INSTALL MECHANICAL PLUGS IN THE GRAVITY SEWER SYSTEM AT THE LOCATIONS INDICATED ON THE CONSTRUCTION PLANS. THE SANITARY SEWER PLUGS SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION BY THE CONTRACTOR AND SHALL REMAIN IN PLACE UNTIL THE SYSTEM HAS BEEN CLEANED, INSPECTED AND APPROVED BY THE APPROPRIATE UTILITY PROVIDER. WHEN THE SYSTEM HAS BEEN APPROVED THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF THE PLUGS.

45.) GROUNDWATER PROTECTION: NO WELLHEADS WILL BE LOCATED ON SITE. NO WELLHEADS ARE LOCATED WITHIN 100 FT. OF SITE.

46.) THE APPROPRIATE UTILITY PROVIDER SHALL NOT OWN OR MAINTAIN ONSITE WATERLINES, SEWER LINES, OR FACILITIES.

GEOTECHNICAL NOTES

1.) SHOULD ANY NOTICEABLE SOIL SLUMPING OR SINKHOLE FORMATION BECOME EVIDENT, THE APPLICANT/DEVELOPER SHALL IMMEDIATELY NOTIFY THE COUNTY, AND SJRWMD, AND ADOPT ONE OR MORE OF THE FOLLOWING PROCEDURES AS DETERMINED TO BE APPROPRIATE BY THE COUNTY AND SJRWMD:

a. IF THE SLUMPING OR SINKHOLE FORMATION BECOMES EVIDENT BEFORE OR DURING CONSTRUCTION ACTIVITIES, STOP ALL WORK (EXCEPT FOR MITIGATION ACTIVITIES) IN THE AFFECTED AREA AND REMAIN STOPPED UNTIL THE COUNTY AND SJRWMD APPROVE RESUMING CONSTRUCTION ACTIVITIES.
b. TAKE IMMEDIATE MEASURES TO ENSURE NO SURFACE WATER DRAINS INTO THE AFFECTED AREAS.
c. VISUALLY INSPECT THE AFFECTED AREA.
d. EXCAVATE AND BACKFILL OR GROUT AS REQUIRED TO FILL THE AFFECTED AREA AND PREVENT FURTHER SUBSIDENCE
e. USE SOIL REINFORCEMENT MATERIALS IN THE BACKFILLING OPERATION, WHEN APPROPRIATE.
f. IF THE AFFECTED AREA IS IN THE VICINITY OF A WATER-RETENTION AREA, MAINTAIN A MINIMUM DISTANCE OF TWO FEET FROM THE BOTTOM OF THE RETENTION POND TO THE SURFACE OF THE LIME-ROCK OR KARST CONNECTION.
g. IF THE AFFECTED AREA IS IN THE VICINITY OF A WATER-RETENTION AREA AND THE ABOVE METHODS DO NOT STABILIZE THE COLLAPSE, RELOCATE THE RETENTION AREA.

2.) DISCHARGE OF STORM-WATER INTO DEPRESSIONS WITH DIRECT OR DEMONSTRATED HYDROLOGIC CONNECTION TO THE FLORIDA AQUIFER SHALL BE PROHIBITED.

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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 P. ADDITIONALLY, ALL EXCAVATIONS BY THE CONTRACTOR SHALL CONFORM TO THE FLORIDA TRENCH SAFETY ACT.

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 CONTRACTOR'S 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 PER FLORIDA LAW (F.S. 556) UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT MANDATES THAT EXCAVATORS/CONTRACTORS SHALL CONTACT SUNSHINE 811 (FKA: SUNSHINE STATE ONE-CALL OF FLORIDA) BY CALLING 800-432-4770 OR 811 AT LEAST 2 FULL BUSINESS DAYS PRIOR TO BEGINNING ANY EXCAVATION OR DEMOLITION TO ALLOW MEMBER OPERATORS AN OPPORTUNITY TO IDENTIFY AND MARK THEIR UNDERGROUND FACILITIES AND APPROPRIATELY RESPOND TO THE POSITIVE RESPONSE SYSTEM.

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 SLIGER & ASSOCIATES, 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 CONDITION AT HIS OWN EXPENSE.

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. CITY OF EDGEWATER'S "AS-BUILT" INFORMATION SHALL INCLUDE INVERT ELEVATIONS, LOCATION OF FITTINGS, LOCATION OF STRUCTURES FOR ALL UTILITIES INSTALLED. NO ENGINEER'S CERTIFICATIONS, FOR FINALIZATION PURPOSES, WILL BE MADE UNTIL THIS INFORMATION IS RECEIVED AND APPROVED BY THE ENGINEER.

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 CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THESE TREES IN GOOD CONDITION. NO TREE SHOWN TO REMAIN SHALL BE REMOVED WITHOUT WRITTEN APPROVAL FROM THE CITY OF EDGEWATER AND OR THE OWNER.

2.) THE CONTRACTOR SHALL CLEAR AND GRUB THE SITE NECESSARY FOR CONSTRUCTION. STABILIZATION OF ALL DISTURBED AREAS BY SOD, TO BE MAINTAINED UNTIL ESTABLISHMENT. SEED & MULCH IS PERMITTED AS TEMPORARY STABILIZATION BMP FOR DISTURBED AREAS NOT YET BUILT TO FINAL GRADE.

3.) 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.

OWNER INSTRUCTIONS FOR MAINTENANCE AND INSPECTION OF STORMWATER FACILITIES

1.) THE ENTIRE STORMWATER SYSTEM SHOULD BE INSPECTED ON AT LEAST A SEMI-ANNUAL BASIS. THIS SHOULD INCLUDE A VISUAL INSPECTION OF THE POND, POND BANKS, BLEED-DOWN ORIFICES, OTHER CONTROL STRUCTURES, AND DISCHARGE PIPES. THESE SHOULD BE KEPT FREE OF DEBRIS AND CLEANED ON A FREQUENCY AS REQUIRED TO KEEP THEM FUNCTIONAL, AS DESIGNED. MOWING/CLEARING AROUND THE STRUCTURES MAY BE REQUIRED TO PREVENT VEGETATION FROM CLOGGING THEM.

2.) WETLAND PLANTS IF INTENTIONALLY INSTALLED, SHOULD BE MONITORED AND MAINTAINED AS REQUIRED ON THE APPROVED CONSTRUCTION PLANS. AREAS OF LITTORAL SHELVING, WHICH ARE REQUIRED TO BE VEGETATED BUT NOT INTENTIONALLY PLANTED, SHOULD NOT BE CLEARED OF THE WETLAND PLANTS. THESE AREAS SHOULD HAVE AS HIGH A PLANT COVERAGE AS POSSIBLE, FOR MAXIMUM WATER FILTRATION.

3.) SEDIMENT SUMPS, IF DESIGNED AND INSTALLED, SHOULD HAVE SEDIMENT REMOVED AS NECESSARY TO ALLOW THEM TO EFFICIENTLY REMOVE SUSPENDED PARTICLES. THEY SHOULD BE RE-DUG TO THE ORIGINAL DESIGN SPECIFICATIONS, IF SILTED IN.

4.) FOR PERCOLATION TREATMENT PONDS/SWALES, THE OWNER OF THE FACILITY SHALL INSPECT THE POND BOTTOM PERIODICALLY AFTER HEAVY RAINFALL EVENTS TO CHECK FOR PERSISTENT PONDING OR POOLING OF WATER. ALL LARGE DEBRIS SHALL BE REMOVED AND DISPOSED OF ELSEWHERE. IF PROLONGED PONDING PERSISTS, I.E., IN EXCESS OF 72 HOURS, THE OWNER SHALL RAKE OR SCARIFY THE SURFACE. IF REQUIRED, THE SOIL IN THE AREA OF PONDING SHALL BE REMOVED AND REPLACED WITH CLEAN SANDY, NON-COHESIVE SOILS.

5.) PLEASE CHECK THE CONSTRUCTION PLANS TO SEE IF WRITTEN REPORTS ON MONITORING OR PLANT SURVIVAL RATES ARE REQUIRED TO BE SENT TO ANY REVIEWING AGENCIES. WRITTEN NOTES SHOULD ALWAYS BE KEPT WHICH DESCRIBE MAINTENANCE ACTIVITIES UNDERTAKEN DURING EACH INSPECTION.

6.) SPECIFIC CONDITIONS OF ALL PERMITS MAY REQUIRE ADDITIONAL MAINTENANCE ACTIVITIES ABOVE AND BEYOND THOSE OUTLINED ABOVE. PLEASE BE AWARE OF ALL PERMIT CONDITIONS AS ISSUED BY REGULATORY AGENCIES TO ENSURE PERMIT COMPLIANCE.

STANDARD FIRE PROTECTION NOTES

1.) FIRE HYDRANTS MUST BE IN INSTALLED AND IN SERVICE PRIOR TO THE ACCUMULATION OF COMBUSTIBLES.

2.) PER NATIONAL FIRE PROTECTION ASSOCIATION, NFPA 1; 16.4.3.1.3: WHERE UNDERGROUND WATER MAINS AND HYDRANTS ARE TO BE PROVIDED, THEY SHALL BE INSTALLED, COMPLETED AND IN SERVICE PRIOR TO CONSTRUCTION WORK.

3.) PER NFPA-1, 18.3.4.1: CLEARANCES OF 7 ½ FEET IN FRONT OF AND TO THE SIDES OF THE FIRE HYDRANT WITH A 4 FOOT CLEARANCE TO THE REAR MUST BE MAINTAINED AT ALL TIMES.

4.) GATED ENTRIES REQUIRE A DUAL KNOX KEY OVERRIDE SWITCH FOR EMERGENCY ACCESS.

5.) A CLICK2ENTER RADIO CONTROL SYSTEM IS REQUIRED FOR ALL GATES.

6.) RESIDENCES WILL BE SAFEGUARDED BY A FIRE SPRINKLER SYSTEM AS OUTLINED IN THE FLORIDA FIRE PREVENTION CODE.

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 102-600.

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 1991, SECTION 711 WITH RPMS PER FDOT #17352

3.) ALL WORK PERFORMED WITHIN THE RIGHT OF WAY SHALL CONFORM TO:
a. FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2004), (AKA: STANDARD SPECS).
b. FDOT DESIGN STANDARDS FOR DESIGN, CONSTRUCTION, MAINTENANCE AND OPERATIONS ON THE STATE HIGHWAYS SYSTEM, JAN., 2004, (AKA: STANDARD INDEX). COMPLIANCE WITH ALL APPLICABLE INDICES IS REQUIRED.
c. FDOT ROADWAY PLANS PREPARATION MANUAL VOLUME 1, CHAPTERS 2 AND 25 (2004).
d. FDOT 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 FDOT WITH THE MANUFACTURE'S CERTIFICATION THAT THE THERMOPLASTIC IS "LEAD-FREE".

4.) PROPOSED PAVEMENT MARKINGS TO MEET AND MATCH EXISTING PAVEMENT MARKINGS.

5.) ALL CONSTRUCTION IN THE FDOT ROW SHALL CONFORM TO THE LATEST EDITIONS OF THE FDOT DESIGN STANDARDS [INDEXES], THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND THE FDOT UTILITY ACCOMMODATION MANUAL.

THE CITY OF EDGEWATER DEVELOPMENT REVIEW – STANDARD SITE PLAN NOTES

1.) ALL UTILITY CONSTRUCTION SHALL COMPLY WITH THE APPROPRIATE UTILITY PROVIDER STANDARDS AND SPECIFICATIONS.

CITY OF EDGEWATER UTILITIES - RANDY COSLOW (386)424-2400 EXT. 4007

2.) ALL ON-SITE WATER AND SEWER FACILITIES SHALL BE OWNED AND MAINTAINED BY THE OWNER/ DEVELOPER.

3.) INSTALLATION OF FUEL STORAGE TANKS REQUIRES REVIEW AND APPROVAL BY THE FIRE MARSHAL AND THE ISSUANCE OF A SEPARATE BUILDING PERMIT. APPROVAL OF THE SITE PLAN DOES NOT CONSTITUTE APPROVAL OF THE LOCATION OF THE FUEL TANKS.

4.) ALL PROPOSED SIGNS MUST BE APPLIED FOR, APPROVED, AND PERMITTED ON AN INDIVIDUAL BASIS APART FROM ANY ULTIMATELY APPROVED SITE PLAN. APPROVAL OF THIS SITE PLAN DOES NOT CONSTITUTE APPROVAL OF ANY SIGNAGE.

5.) HANDICAP PARKING SPACES WILL BE PROPERLY SIGNED AND STRIPED IN ACCORDANCE WITH FLORIDA STATUTE 316, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, OR OTHER APPLICABLE STANDARDS.

6.) THE ARCHITECT/ENGINEER CERTIFIES THAT THE SITE HAS BEEN DESIGNED IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT.

7.) ALL ON-SITE PARKING SPACES WILL BE STRIPED AND SIGNED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION. PARKING SPACES, DIRECTIONAL ARROWS, AND STOP BARS SHALL BE STRIPED IN WHITE. IT SHALL BE THE OWNER/DEVELOPER'S RESPONSIBILITY TO PROPERLY SIGN AND STRIPE IN ACCORDANCE WITH APPLICABLE STANDARDS.

8.) THE OWNER/DEVELOPER ACKNOWLEDGES THAT THIS APPROVAL DOES NOT INCLUDE ANY WORK IN THE COUNTY RIGHT-OF-WAY. ALL RIGHT-OF-WAY WORK SHALL BE A FUNCTION OF AN APPROVED THE CITY OF EDGEWATER RIGHT-OF-WAY USE PERMIT.

9.) ALL CLEAR-SITE AREAS SHALL BE KEPT FREE OF ANY SIGNAGE PLANTINGS, TREES, ETC. IN EXCESS OF THREE-AND-A-HALF (3-1/2) FEET IN HEIGHT.

10.) NO IRRIGATION SYSTEM OR LANDSCAPING SHALL BE INSTALLED IN ANY COUNTY OR STATE RIGHT-OF-WAY WITHOUT ISSUANCE OF APPROPRIATE RIGHT-OF-WAY USE PERMIT.

11.) THE OWNER/DEVELOPER ACKNOWLEDGES THAT THE SITE AND ITS SUBSEQUENT BUILDING PERMITS SHALL COMPLY WITH ALL REZONING/MPUD/PUD CONDITIONS.

12.) ALL STRUCTURES, INCLUDING BUFFER WALLS, RETAINING WALLS, SIGNAGE, ETC. REQUIRE BUILDING PERMITS.

13.) IF A PROJECT SITE CONTAINS AN EASEMENT, ESPECIALLY A POWER COMPANY EASEMENT, A LETTER OF NO OBJECTION IS REQUIRED FROM THE EASEMENT HOLDER. BY SIGNING AND SEALING THIS PLAN THE ENGINEER OF RECORD IS ATTESTING THAT HE/SHE HAS IDENTIFIED AND ACCURATELY SHOWN ALL EASEMENTS OF RECORD ON THE PLANS.

GENERAL CONSTRUCTION NOTES

1.) PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN FROM THE ENGINEER OR OWNER A COPY OF ALL PERTINENT PERMITS RELATED TO THIS PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASSURE THAT ALL CONSTRUCTION ACTIVITIES ARE IN COMPLIANCE WITH THE CONDITIONS OF ALL PERMITS AND APPROVALS. CONTRACTOR IS ALSO RESPONSIBLE FOR HAVING HIS DEWATERING PLAN APPROVED BY SJRWMD.

2.) ALL CONSTRUCTION, MATERIALS AND WORKMANSHIP ARE TO BE IN ACCORDANCE WITH CITY OF EDGEWATER LAND DEVELOPMENT CODE AND DOT SPECIFICATIONS, LATEST EDITIONS.

3.) STABILIZATION OF ALL DISTURBED AREAS BY SOD, TO BE MAINTAINED UNTIL ESTABLISHMENT. SEED & MULCH IS PERMITTED AS TEMPORARY STABILIZATION BMP FOR DISTURBED AREAS NOT YET BUILT TO FINAL GRADE.

4.) FLORIDA LAW (F.S. 556) UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT MANDATES THAT EXCAVATORS/CONTRACTORS SHALL CONTACT SUNSHINE 811 (FKA: SUNSHINE STATE ONE-CALL OF FLORIDA) BY CALLING 800-432-4770 OR 811 AT LEAST 2 FULL BUSINESS DAYS PRIOR TO BEGINNING ANY EXCAVATION OR DEMOLITION TO ALLOW MEMBER OPERATORS AN OPPORTUNITY TO IDENTIFY AND MARK THEIR UNDERGROUND FACILITIES AND APPROPRIATELY RESPOND TO THE POSITIVE RESPONSE SYSTEM.

5.) (FOR MIAMI, VALLEY, TYPE "V", ETC. GUTTER TYPE SECTIONS ONLY) PRIOR TO CURB INLET CONSTRUCTION, THE ENGINEER SHALL LAY OUT THE BACK OF THE CURB IN THE VICINITY OF THE RESPECTIVE INLET FOR ALIGNMENT AND GRADE, AND THE CONTRACTOR SHALL CONSTRUCT THE INLET ALLOWING FOR AN 18" CONCRETE THROAT BETWEEN THE BACK OF THE CURB AND THE FACE OF THE INLET. THE TOP OF THE INLET SHALL BE CONSTRUCTED TO AN ELEVATION OF 3/8" ABOVE THE TOP OF CURB. ANY INLETS CONSTRUCTED INCORRECTLY BY DEVIATING FROM THIS SEQUENCE OF INLET CONSTRUCTION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND NO ADDITIONAL PAYMENT SHALL BE MADE OR ALLOWED FOR REMOVING AND/OR CORRECTING THE INLET.

6.) SUITABLE FILL OBTAINED THROUGH EXCAVATION OF STREETS AND DETENTION PONDS SHALL BE PLACED ON LOTS AND ADJACENT LAND IN ACCORDANCE WITH THE MASTER DRAINAGE AND GRADING PLAN AS DIRECTED BY THE ENGINEER.

7.) SITE CLEARING SHALL BE PERFORMED PER THE APPROVED CONSTRUCTION PLANS AND IN ACCORDANCE WITH THE CITY OF EDGEWATER LAND DEVELOPMENT CODE. INSTALLATION AND MAINTENANCE OF THE REQUIRED BARRICADING AND EROSION CONTROL SHALL BE THE RESPONSIBILITY OF THE SITE DEVELOPMENT CONTRACTOR UNLESS OTHERWISE DESIGNATED.

8.) PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR SHALL EXPOSE ALL EXISTING UTILITY INVERTS TO WHICH A TIE-IN IS PROPOSED AND HAVE ENGINEER VERIFY THE ELEVATION AND ADEQUACY OF THESE INVERTS.

9.) ALL SUBSURFACE CONSTRUCTION SHALL COMPLY WITH THE "TRENCH SAFETY ACT." THE CONTRACTOR SHALL ENSURE THAT THE METHOD OF TRENCH PROTECTION AND CONSTRUCTION IS IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS.

10.) SILTATION ACCUMULATIONS GREATER THAN THE LESSER OF 12 INCHES OR ONE-HALF THE DEPTH OF THE SILTATION BARRIER SHALL BE IMMEDIATELY REMOVED AND PLACED IN UPLAND AREAS.

11.) DURING LAND ALTERATION AND CONSTRUCTION ACTIVITIES, IT SHALL BE UNLAWFUL TO REMOVE VEGETATION BY GRUBBING OR TO PLACE SOIL DEPOSITS, DEBRIS, SOLVENTS, CONSTRUCTION MATERIAL, MACHINERY OR OTHER EQUIPMENT OF ANY KIND WITHIN THE DRIP LINE OF A TREE TO REMAIN ON THE SITE UNLESS OTHERWISE APPROVED BY THE COUNTY.

12.) ALL EROSION CONTROL INSTALLATION AND INSTALLATION COORDINATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. BE ADVISED THAT THE CONSTRUCTION APPROVAL AND MAINTENANCE OF THE EROSION CONTROL SHALL BE THE SOLE RESPONSIBILITY OF THE SITE CONTRACTOR.

13.) DRAINAGE PLAN WAS BASED ON THE EXISTING FIELD CONDITIONS OF THE ABUTTING PROPERTY.

14.) IF DURING CONSTRUCTION ACTIVITIES ANY EVIDENCE OF THE PRESENCE OF STATE OR FEDERALLY PROTECTED PLANT AND/OR ANIMAL SPECIES IS DISCOVERED, THE CITY OF EDGEWATER AND APPLICABLE AGENCIES SHALL BE NOTIFIED WITHIN TWO WORKING DAYS OF THE PLANT AND/OR ANIMAL SPECIES FOUND ON THE SITE. ALL WORK IN THE AFFECTED AREA SHALL COME TO AN IMMEDIATE STOP UNTIL ALL PERTINENT PERMITS HAVE BEEN OBTAINED, AGENCY WRITTEN AUTHORIZATION TO COMMENCE ACTIVITIES HAS BEEN GIVEN, OR UNLESS COMPLIANCE WITH STATE AND FEDERAL GUIDELINES CAN BE DEMONSTRATED.

15.) PRIOR TO THE START OF THE CLEARING AND GRUBBING, OR ANY SOIL DISTURBANCE CONTACT THE CITY OF EDGEWATER STORMWATER MGMT. AT (727)834-36311 FOR A SOIL EROSION AND SEDIMENT CONTROL, PRE-INSPECTION MEETING.

16.) CONTRACTOR MUST PROVIDE A DEWATERING PLAN, IF APPLICABLE, TO THE CITY OF EDGEWATER ENGINEERING INSPECTIONS DEPARTMENT AT (727)834-3670 FOR REVIEW PRIOR TO THE EROSION CONTROL MEASURES PRE-INSPECTION MEETING.

PAVING AND GRADING NOTES

1.) PAVEMENT WEARING SURFACE SHALL BE ASPHALTIC CONCRETE OF TYPE AND THICKNESS SHOWN IN DETAIL AND SHALL MEET CURRENT DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.

2.) PAVEMENT BASE SHALL BE LIMEROCK, AS DESIGNATED IN PLANS, AND SHALL BE COMPACTED TO A MINIMUM THICKNESS AS SHOWN.

3.) ALL LIMEROCK SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 P.S.I.

4.) SUBGRADE SHALL BE PREPARED IN ACCORDANCE WITH FDOT INDEX NO. 505, LATEST EDITION. EMBANKMENT FILLS OR NATURAL SANDS TO 24-INCHES BELOW THE BOTTOM OF THE PAVEMENT BASE (IF NO STABILIZED SUBGRADE), OR TO 24-INCHES BELOW THE BOTTOM OF STABILIZED SUBGRADE, SHALL BE SANDY SOILS (A-3 OR SP/SP-SM) WITH TYPICALLY 15% FINES OR LESS PASSING THE NO. 200 SIEVE.

5.) SUBGRADE UNDER A SOIL-CEMENT BASE SHALL BE PROOF-ROLLED TO GRADE, AS DIRECTED BY THE ENGINEER AND APPROVED BY THE ENGINEER WITH SUITABLE COMPACTION EQUIPMENT TO ACHIEVE A DENSITY OF NINETY-EIGHT (98%) PERCENT MODIFIED PROCTOR FOR A DEPTH OF TWELVE (12) INCHES PRIOR TO PLACING SOIL-CEMENT BASE.

6.) LIMEROCK MIX DESIGN SHALL BE PROVIDED A MINIMUM 30 DAYS IN ADVANCE OF PLACEMENT OF BASE MATERIAL FOR APPROVAL BY THE ENGINEER. THE LIMEROCK PRODUCT SHALL BE IN ACCORDANCE WITH PCA STANDARDS.

7.) LIMEROCK SURFACE SHALL BE INSPECTED AND APPROVED BY THE ENGINEER PRIOR TO ANY PAVING OPERATION.

8.) SHOULD NO UNDERDRAIN BE SPECIFIED ON THE PLANS THE CONTRACTOR IS TO INCLUDE 1,000 LINEAR FEET OF UNDERDRAIN AT UNIT PRICES FOR BID PURPOSES.

9.) ALL CURBS AND GUTTERS SHALL BE PLACED ON A FOUNDATION OF TYPE "B" STABILIZED SUBGRADE WITH A MINIMUM LBR VALUE OF 40 (OR A MINIMUM FBV OF 75) WHICH HAS BEEN COMPACTED TO A MINIMUM DENSITY OF NINETY-EIGHT (98) PERCENT OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 FOR A MINIMUM DEPTH OF TWELVE (12) INCHES.

ALTERNATIVE BASE MATERIAL CRUSHED CONCRETE

CRUSHED CONCRETE ROAD BASE MATERIAL SHOULD MEET THE FOLLOWING CONDITIONS:

1.) SHOULD BE OF UNIFORM QUALITY, FREE OF ALL ORGANICS, STEEL REBAR, ASPHALT DEBRIS, AND ANY OTHER DELETERIOUS MATERIAL.

2.) SHOULD HAVE A MINIMUM LIME ROCK BEARING RATIO (LBR) OF 120, TESTED AT A FREQUENCY REQUIRED BY THE CITY OR COUNTY HAVING JURISDICTION.

3.) SINGLE COURSE LIFTS SHOULD NOT EXCEED 6-INCHES (LOOSE).

4.) SHOULD CONFORM TO THE GRADATION CHART FOR GRADED AGGREGATE BASE, FDOT SECTION 204, TESTED AT A FREQUENCY REQUIRED BY THE CITY OR COUNTY HAVING JURISDICTION.

5.) SHOULD BE COMPACTED TO A MINIMUM OF 98% OF AASHTO T-180, TESTED AT A FREQUENCY REQUIRED BY THE CITY OR COUNTY HAVING JURISDICTION.

6.) SUBGRADE SHALL BE PREPARED AS NOTED ABOVE.

ROADWAY DESIGN NOTES

1.) THE ENGINEER RESPONSIBLE FOR THE PROJECT SHALL CERTIFY TO THE COUNTY ENGINEER THAT THE UNDERDRAINS (IF NECESSARY) HAVE BEEN PROPERLY INSTALLED PRIOR TO THE INSTALLATION OF ANY ASPHALT. CERTIFICATION SHALL STRICTLY COMPLY WITH THE UNDERDRAIN CERTIFICATION FORM AVAILABLE IN THE ENGINEERING SERVICES DEPARTMENT'S " A PROCEDURAL GUIDE FOR THE PREPARATION OF ASSURANCES OF COMPLETION AND MAINTENANCE".

2.) AN INSPECTION AND MAINTENANCE PROGRAM SHALL BE ESTABLISHED BY THE DESIGN ENGINEER DESIGNATING AN ENTITY ON THE DESIGN DRAWINGS THAT SHALL BE RESPONSIBLE FOR MAINTENANCE.

POND/LAKE EXCAVATION NOTES

1.) NO EXCAVATION SHALL EXTEND BELOW THE PERMITTED DESIGN DEPTHS/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. THE CITY OF EDGEWATER MUST BE CONTACTED PRIOR TO ANY EXCAVATION OF CLAYS. IN THE ABSENCE OF ANY CONFINING OR SEMI-CONFINING UNIT CLAYEY SOILS, A MINIMUM OF 5' 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 INCLUDE, 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. ADDITIONAL MEASURES SUCH AS TEMPORARY LOWERING OF POND WATER LEVELS BY PUMPING TURBID WATER TO OVERLAND FILTRATION MAY BE NECESSARY TO PREVENT DIRECT DISCHARGE OF TURBID WATER TO ADJACENT WETLANDS.

SITE PLAN NOTES

GENERAL NOTES & PROJECT DATA:

1. EXISTING ZONING: PUD
2. THE SITE IS NOT LOCATED WITHIN ANY WELLHEAD PROTECTION AREAS OR SPECIAL PROTECTION AREAS.
3. NO REGISTERED CULTURAL RESOURCES ARE LOCATED ON THE SITE.
4. THIS SITE IS NOT LOCATED WITHIN ANY HURRICANE EVACUATION ZONES.
5. THE PROPOSED ROADWAY SYSTEM IS IN SUBSTANTIAL CONFORMANCE WITH THE MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION, AND MAINTENANCE OF STREETS AND HIGHWAYS, STATE OF FLORIDA, IN EFFECT AT THE TIME THE PLANS WERE PREPARED.
6. IF DURING CONSTRUCTION ACTIVITIES ANY EVIDENCE OF HISTORIC RESOURCES, INCLUDING BUT NOT LIMITED TO ABORIGINAL OR HISTORIC POTTERY, PREHISTORIC STONE TOOLS, BONE OR SHELL TOOLS, HISTORIC TRASH PITS, OR HISTORIC BUILDING FOUNDATION, ARE DISCOVERED, WORK SHALL COME TO AN IMMEDIATE STOP AND THE FLORIDA DEPARTMENT OF HISTORIC RESOURCES (STATE HISTORIC PRESERVATION OFFICER) AND THE CITY OF EDGEWATER SHALL BE NOTIFIED WITHIN TWO WORKING DAYS OF THE RESOURCES BEING FOUND ON SITE.
7. COMMON AREAS, CONSERVATION AREAS, STORMWATER MANAGEMENT AREAS, PARKS, EASEMENTS, ETC. WILL BE OWNED AND MAINTAINED BY A PROPERTY MANAGEMENT COMPANY OR SOME OTHER APPROVED ENTITY.
8. THE PROPERTY MANAGEMENT COMPANY IS RESPONSIBLE FOR THE MAINTENANCE OF ROADWAYS, STORMWATER SYSTEMS AND COMMON AREA ON PLANS.
9. ALL CONSTRUCTION DETAILS SHOULD BE IN CONFORMANCE TO CITY OF EDGEWATER.
10. NOTIFICATION OF NOI FOR CGP REQUIRED SINCE SITE IS GREATER THAN 1 ACRE.
11. ~~ALL EROSION AND CONTROL MEASURES MUST BE INSPECTED AFTER ½" RAINFALL EVENT.~~
12. ALL CONSTRUCTION DEBRIS SHALL BE CONTAINED WITHIN A DUMPSTER OF SUITABLE SIZE, WHICH SHALL BE EMPTIED AT AN APPROPRATELY PERMITTED LANDFILL AND REPLACED AS NEEDED THROUGHOUT ALL PHASES OF CONSTRUCTION.

DRAINAGE INFORMATION:

13. POST DEVELOPMENT DRAINAGE WILL BE COLLECTED AND DIRECTED VIA PIPES AND SWALES TO STORMWATER MANAGEMENT AREAS. STORMWATER MANAGEMENT AREAS WILL DISCHARGE TO THE EXISTING WETLAND DRAINAGE SYSTEMS.
14. ALL DRAINAGE PIPES BETWEEN LOTS SHALL BE IN DRAINAGE EASEMENTS THAT COMPLY WITH THE CITY OF EDGEWATER LAND DEVELOPMENT CODE.
15. BUFFERS FROM POST-DEVELOPMENT WETLANDS SHALL BE AS FOLLOWS: 25-FOOT MINIMUM AROUND ALL CATEGORY I WETLANDS; BUFFERS AROUND CATEGORY II AND CATEGORY III WETLANDS SHALL BE AS REQUIRED BY SJRWMD. ALLOWABLE USES AND RESTRICTIONS FOR BUFFERS SHALL BE IN ACCORDANCE WITH THE CITY OF EDGEWATER LAND DEVELOPMENT CODE.
16. WHERE A REQUIRED DRAINAGE AND/OR ACCESS EASEMENT IS NECESSARY IN THE REAR-YARD THE 10-FOOT REAR SETBACK MAY NOT BE ABLE TO BE ACCOMMODATED.
17. CONTRACTOR MUST PROVIDE A DEWATERING PLAN, IF APPLICABLE, TO THE CITY OF EDGEWATER ENGINEERING INSPECTIONS DEPARTMENT AT (727) 834-3670 FOR REVIEW PRIOR TO THE EROSION CONTROL MEASURES PRE-INSPECTION MEETING.
18. THE OWNER/DEVELOPER SHALL GRANT TO THE CITY OF EDGEWATER AN ACCESS AND DRAINAGE EASEMENT ACROSS ALL PASS THROUGH DRAINAGE AT THE 24HR-100YR FLOOD EVENT. THIS EASEMENT SHALL GIVE THE CITY OF EDGEWATER THE RIGHT BUT NOT THE OBLIGATION TO ACCESS AND MAINTAIN THE DRAINAGE.

EARTHWORK INFORMATION:

19. NO FILL MATERIAL WILL BE REMOVED FROM THE SITE AND IF ANY EXTRA FILL MATERIAL, IT WILL BE MOVED FROM PHASE TO PHASE WITHOUT USING PUBLIC ROW, ROADWAYS OR EASEMENTS.

UTILITY INFORMATION:

20. WATER SERVICE WILL BE PROVIDED BY VOLUSIA COUNTY UTILITIES, ATTN: ROGER SMITH, P.E. (386) 943-7027 EXT. 12076
21. WASTEWATER SERVICE WILL BE PROVIDED BY CITY OF EDGEWATER, ATTN: RANDY COSLOW, P.E. (386) 424-2400 EXT. 4007
22. ELECTRIC SERVICE WILL BE PROVIDED BY FLORIDA POWER & LIGHT, ATTN: JOEL BRAY (386) 586-6403
23. TELECOM SERVICE WILL BE PROVIDED BY AT&T, ATTN: KIRBY SPENCER (KS2488@ATT.COM)
24. GAS SERVICE WILL BE PROVIDED BY FLORIDA PUBLIC UTILITIES, ATTN: DAVID JOHNSON (352) 636-4057
25. FIRE PROTECTION AND EMS SERVICES WILL BE PROVIDED BY THE CITY OF EDGEWATER EMERGENCY SERVICES.
26. FIRE PROTECTION WITHIN THE PROPOSED DEVELOPMENT WILL BE FROM HYDRANTS WITH LOCATIONS SHOWN ON CONSTRUCTION PLANS.
27. CONFIRMATION OF AVAILABLE SERVICE AND ABILITY TO PROVIDE SERVICE FROM RESPECTIVE PROVIDERS WILL BE FORWARDED TO APPROPRIATE UTILITY PROVIDER UPON RECEIPT.
28. WATER MAIN MUST BE PRESSURE TESTED AND BACTERIOLOGICAL TESTED PER FDEP STANDARDS.
29. SEWER MAINS MUST BE TELEVISED AND TAPES PROVIDED TO CITY'S INSPECTOR.

FIRE INFORMATION:

30. FIRE HYDRANTS SHALL BE INSTALLED AND IN SERVICE PRIOR TO THE ACCUMULATION OF COMBUSTIBLES.
31. PER THE NATIONAL FIRE PROTECTION ASSOCIATION, NFPA-1, 16.4.3.1.3: WHERE UNDERGROUND WATER MAINS AND HYDRANTS ARE TO BE PROVIDED, THEY SHALL BE INSTALLED, COMPLETED, AND IN SERVICE PRIOR TO CONSTRUCTION WORK.
32. PER NFPA-1, 18.3.4.1: CLEARANCES OF 7.5' IN FRONT OF AND TO THE SIDES OF THE FIRE HYDRANT WITH A 4' CLEARANCE TO THE REAR MUST BE MAINTAINED AT ALL TIMES.

ROADWAY INFORMATION:

33. ALL INTERNAL ROADWAYS WILL BE PRIVATE ROADS, AND WILL BE OWNED AND MAINTAINED BY A PROPERTY MANAGEMENT COMPANY. DEDICATION AND MAINTENANCE SHALL BE THE RESPONSIBILITY OF AN APPROPRIATE ENTITY OTHER THAN THE CITY OF EDGEWATER. THE CITY OF EDGEWATER WILL NOT BE RESPONSIBLE FOR THE MAINTENANCE OF ANY PRIVATE STREETS.
34. ALL ROADWAY DESIGN AND CONSTRUCTION IS TO COMPLY WITH THE MANUAL OF UNIFORM MINIMUM STANDARDS, STATE OF FLORIDA.
35. ALL HANDICAP RAMPS SHALL MEET THE REQUIREMENTS OF FDOT INDEX 522-002.

LANDSCAPE INFORMATION:

36. DEVELOPMENT SHALL COMPLY WITH THE TREE AND LANDSCAPE CODES AS SET FORTH IN THE LAND DEVELOPMENT CODE EXCEPT AS APPROVED VIA ALTERNATE STANDARDS OR VARIANCES.

WETLAND INFORMATION:

37. THE UPLAND BUFFER LINE SHALL BE CLEARLY FIELD DEMARCATED PRIOR TO COMMENCEMENT OF SITE DEVELOPMENT ACTIVITIES.
38. NO CONSTRUCTION ACTIVITIES INCLUDING: CLEARING, GRADING, GRUBBING SHALL OCCUR WITHIN THE WETLAND, UPLAND BUFFER AS OTHERWISE DEPICTED ON THE APPROVED PROJECT CONSTRUCTION PLANS.
39. IF DURING CONSTRUCTION ACTIVITIES ANY EVIDENCE OF THE PRESENCE OF STATE OR FEDERALLY PROTECTED PLANT AND/OR ANIMAL SPECIES IS DISCOVERED, THE CITY OF EDGEWATER AND APPLICABLE AGENCIES SHALL BE NOTIFIED WITHIN TWO WORKING DAYS OF THE PLANT AND/OR ANIMAL SPECIES FOUND ON THE SITE. ALL WORK IN THE AFFECTED AREA SHALL COME TO AN IMMEDIATE STOP UNTIL ALL PERTINENT PERMITS HAVE BEEN OBTAINED, AGENCY WRITTEN AUTHORIZATION TO COMMENCE ACTIVITIES HAS BEEN GIVEN, OR UNLESS COMPLIANCE WITH STATE AND FEDERAL GUIDELINES CAN BE DEMONSTRATED.

LevelUp Consulting, LLC

LVLUP

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Tampa, Florida 33602
Office: 813-375-0616
www.levelupflorida.com

CONSTRUCTION PLAN REVISIONS

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3	06/19/24	REVISED PER CITY OF EDGEWATER COMMENTS
4	07/15/24	REVISED PER CITY OF EDGEWATER COMMENTS

YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

GENERAL NOTES

Engineering Business Certificate of Authorization No. 32771
Florida Certificate of Authorization No. LC26000638

BRANDON D. MACHIELA
LICENSE
NO. 90686
STATE OF FLORIDA
PROFESSIONAL ENGINEER

BRANDON D. MACHIELA
FLORIDA LICENSED PROFESSIONAL ENGINEER
REGISTRATION NUMBER 90686

PROJECT No. 199-01-01

SHEET C 2.0

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YARDLY
EDGEWATER RIVER OAKS

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AERIAL SITE PLAN

Engineering Business Certificate of Authorization No. 32771
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BRANDON D. MACHIELA LICENSE NO. 90686 STATE OF FLORIDA PROFESSIONAL ENGINEER

BRANDON D. MACHIELA
FLORIDA LICENSED PROFESSIONAL ENGINEER
REGISTRATION NUMBER 90686

PROJECT No.	199-01-01
SHEET	C 3.0

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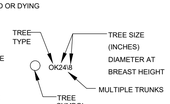
TREE LEGEND

ASH	ASH TREE	OAK	OAK TREE	CL	CELTIS LAEVIGATA: SUGAR BERRY/HACKBERRY TREE
BAY	BAY TREE	QL	QUERCUS LAURIFOLIA: LAUREL OAK TREE	MG	MAGNOLIA GRANDIFLORA: SOUTHERN MAGNOLIA TREE
CAM	CAMPHOR TREE	QV	QUERCUS VIRGINIANA: LIVE TREE	ZC	ZANTHOXYLUM CLAVA-HERCULIS: HERCULES' CLUB TREE
CD	CEDAR TREE	IC	LIEX CASSINE: DAHOON HOLLY TREE	PS	PRUNUS SEROTINA: BLACK CHERRY TREE
CITRUS	CITRUS TREE	PC	PRUNUS CAROLINIANA: LAUREL CHERRY TREE	DDD	INDICATES THAT THE TREE IS LIKELY DEAD, DISEASED OR DYING
CL	CHERRY TREE	SP	SABAL PALMETTO: CABAGE PALM TREE	UK	UNKNOWN TREE
OK	OAK TREE	PNP	POND PINE	MP	MAPLE TREE
SB	SUGARBERRY TREE	PNL	LOBLOLLY PINE TREE	SC	SYCAMORE TREE
SG	SWEET GUM TREE	PN	SLASH PINE TREE	OK	OAK TREE
CB	CHINABERRY TREE	PNS	SAND PINE TREE	SG	SWEET GUM TREE
ELM	ELM TREE	PNF	LONGLEAF PINE TREE	HK	HICKORY TREE
HCK	HICKORY TREE	BT	BLACK TUPELO TREE	BH	BIRCH TREE
MAG	MAGNOLIA	CD	CEDAR TREE	PM	PALM TREE
MAP	MAPLE TREE			MG	MAGNOLIA
				BY	BAY TREE
				EM	ELM TREE
				CB	CHINABERRY TREE
				CY	CYPRESS TREE
				PM	PALM TREE
				MU	MULBERRY TREE
				PN	PINE TREE



SURFACE WATER IMPACT TABLE

SURFACE WATER DESIGNATION	CURRENT ACREAGE	IMPACT ACREAGE	REMAINING ACREAGE
OSW1	0.172	0.172	0.000
OSW2	0.159	0.062	0.097
OSW3	0.237	0.005	0.232

LEGEND

- PROJECT BOUNDARY
- EASEMENT LINE
- SILT FENCE
- SURFACE WATER
- SURFACE WATER IMPACT
- PN16 DEMO TREE
- PN18 SAVE TREE
- WM WATER MAIN
- FM FORCE MAIN
- SANITARY SEWER
- ROW LINE

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YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

EXISTING CONDITIONS AND DEMOLITION

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PARCEL ID: 853711000050
ZONING: IND
FUTURE LAND USE: IND

PARCEL ID: 853711000060
ZONING: IND
FUTURE LAND USE: IND

Site Data Table

Project Location	City of Edgewater
Total Project Area	18.21± ac
Present Zoning	PUD
Total Number of Dwelling Units	196 Units
Projected Density	10.8 du/ac
Total Acreage in Floodplain	0 ac
Total Acreage in Wetlands	0 ac
Impervious Surface Area	46.67% (8.50 ac)
Open Space Area	53.33% (9.71 ac)
Gross Unit Area	Min. 650 sqft
Tree Preservation Area required	15.0%
Tree Preservation Area Provided	15.26% (2.78 ac)

Parking Table

	Provided	Required (Per Land Development Code Article V Table V-8)
Standard Uncovered Spaces	241	-
Handicap Parking Spaces	8	8
Garage Spaces	60	-
Total Parking Spaces	309	309 (1.5 per unit plus 5% for visitors)

LEGEND
- PROPERTY LINE
- PVC FENCE
- DUMPSTER PAD

TREE PROTECTION AREA
BUTTERFLY GARDEN
POOL
BBQ & BAR AREA
PICKLEBALL
DOG PARK
DRY POND 1
DRY POND 2
DRY POND 4
WET POND 3

PARCEL ID: 853810000011
ZONING: COM
FUTURE LAND USE: COM

PARCEL ID: 853810000282
ZONING: RPUD
FUTURE LAND USE: PUD

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SCALE IN FEET

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YARDLY
EDGEWATER RIVER OAKS

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MASTER SITE PLAN

Engineering Business Certificate of Authorization No. 32771
Florida Certificate of Authorization No. LC26000638

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PROJECT No. 199-01-01

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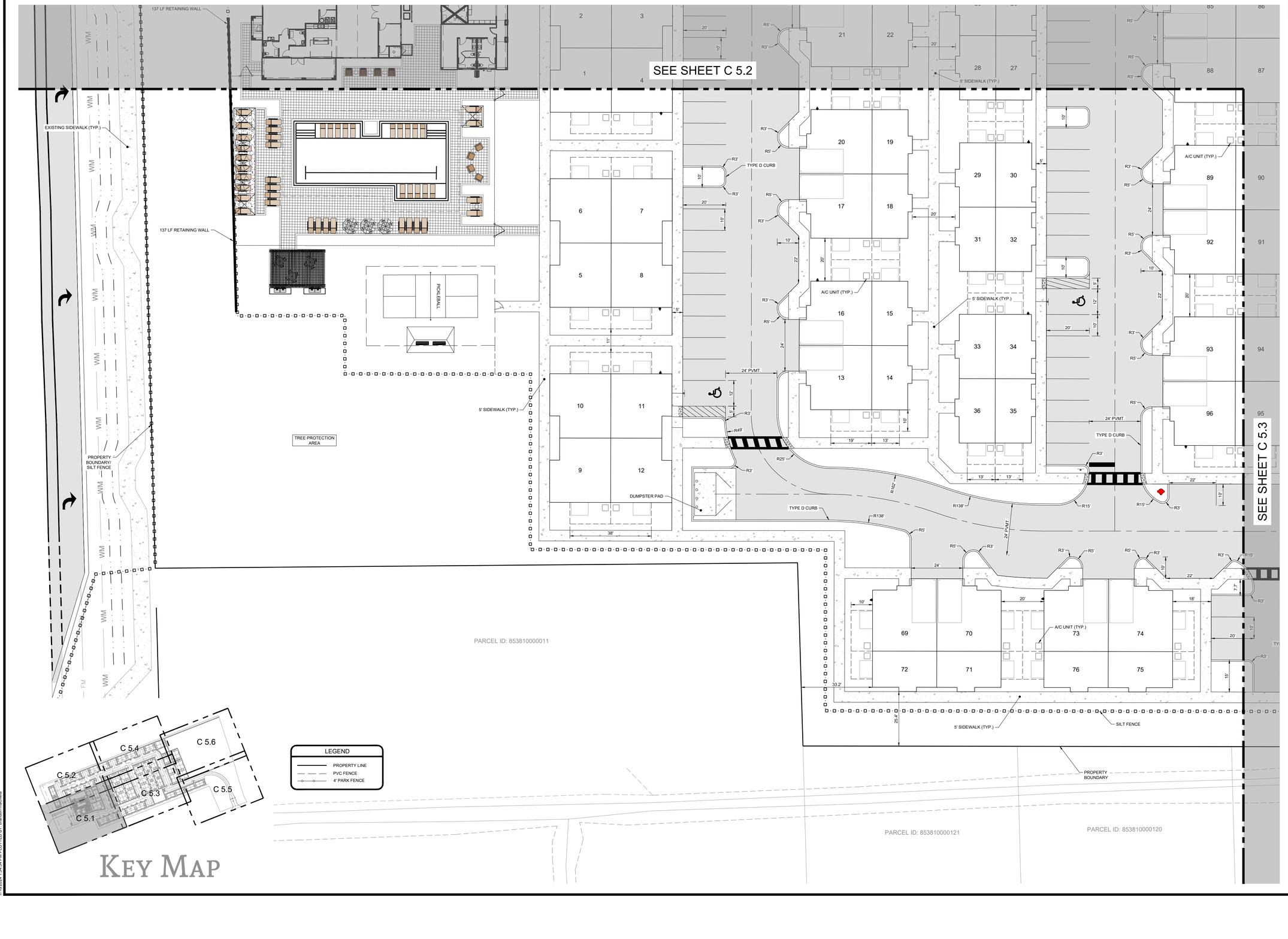

KEY MAP

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OFFICE: 813-375-0616
WWW.LEVELUPFLORIDA.COM

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YARDLY
EDGEWATER RIVER OAKS

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SITE PLAN

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PROJECT No.	199-01-01
SHEET	C 5.1

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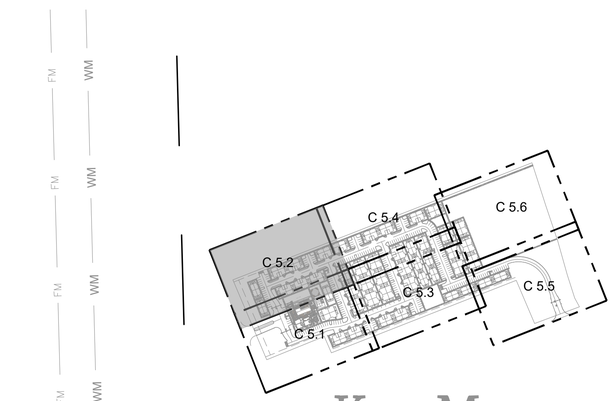

KEY MAP

LEGEND
- PROPERTY LINE
- PVC FENCE
- 4' PARK FENCE

PARCEL ID: 853711000060

PROPERTY BOUNDARY/ SILT FENCE

10' LA BUFFER

TREE PROTECTION AREA

264 LF RETAINING WALL

137 LF RETAINING WALL

CALL BOX W/ LICENSE PLATE READER

A/C UNIT (TYP.)

TYPE D CURB

5' SIDEWALK (TYP.)

5' FIRE LANE

FIRE LANE

24' PVMT.

EXISTING SIDEWALK (TYP.)

SEE SHEET C 5.4

SEE SHEET C 5.1

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YARDLY
EDGEWATER RIVER OAKS

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SITE PLAN

Engineering Business Certificate of Authorization No. 32771
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BRANDON D. MACHIELA
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PROJECT No.	199-01-01
SHEET	C 5.2

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SEE SHEET C 5.4

SEE SHEET C 5.1

SEE SHEET C 5.6

SEE SHEET C 5.5

5' SIDEWALK (TYP.)

A/C UNIT (TYP.)

TYPE D CURB

5' FIRE LANE

FIRE LANE

24' PVMT.

DUMPSTER PAD

287 LF RETAINING WALL

DOG PARK

217 LF RETAINING WALL

SILT FENCE

379 LF RETAINING WALL

PROPERTY BOUNDARY

PARCEL ID: 853810000171

PARCEL ID: 853810000172

PARCEL ID: 853810000170

PARCEL ID: 853810000250

LEGEND

- PROPERTY LINE
- PVC FENCE
- 4' PARK FENCE

KEY MAP

C 5.1 C 5.2 C 5.3 C 5.4 C 5.5 C 5.6

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YARDLY
EDGEWATER RIVER OAKS

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SITE PLAN

Engineering Business Certificate of Authorization No. 32771
Florida Certificate of Authorization No. LC26000638

BRANDON D. MACHIELA LICENSE NO. 90686 STATE OF FLORIDA PROFESSIONAL ENGINEER

BRANDON D. MACHIELA
FLORIDA LICENSED PROFESSIONAL ENGINEER
REGISTRATION NUMBER 90686

PROJECT No. 199-01-01

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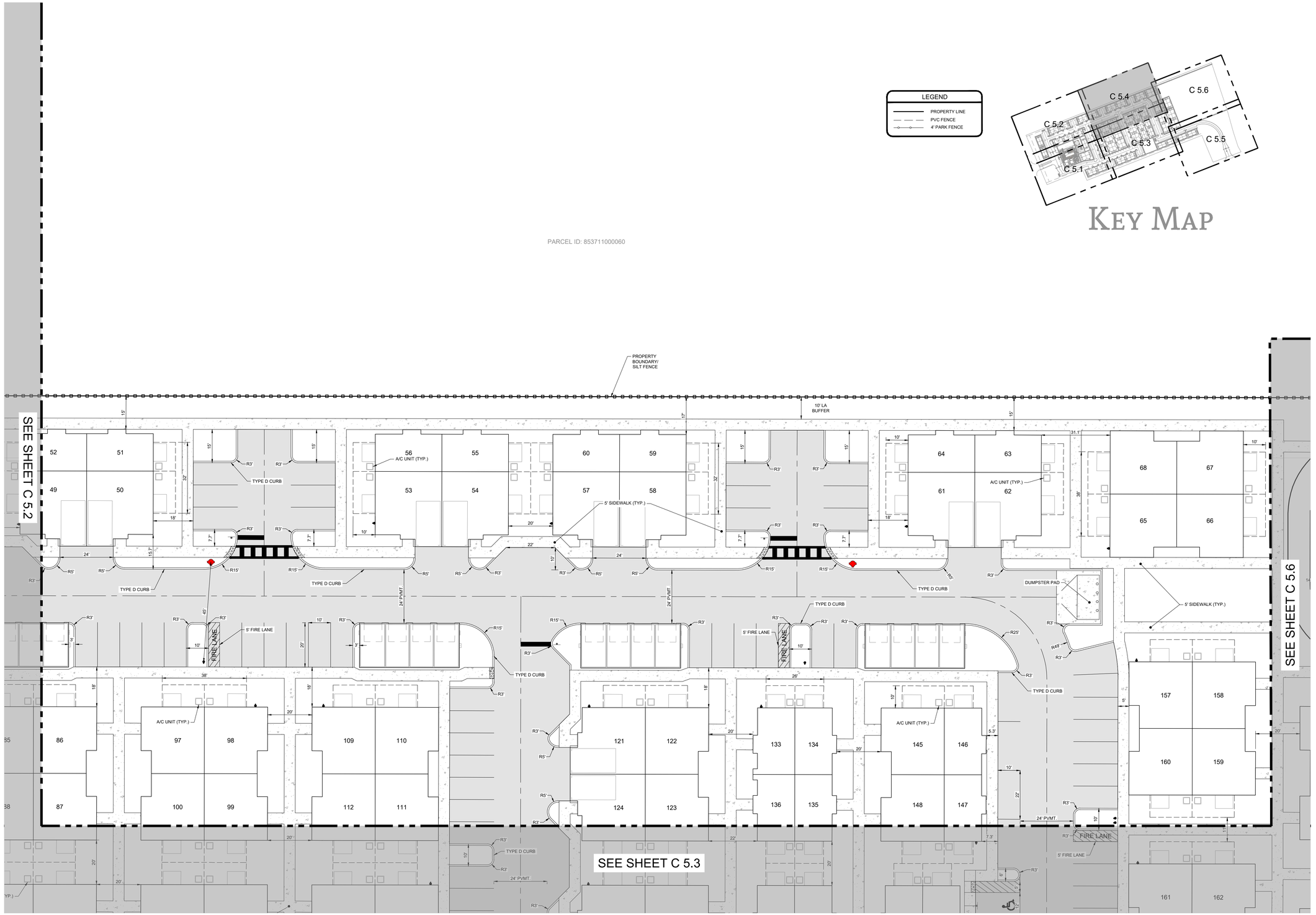

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YARDLY
EDGEWATER RIVER OAKS

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SITE PLAN

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BRANDON D. MACHIELA
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PROJECT No.	199-01-01
SHEET	C 5.4

SEE SHEET C 5.6

SEE SHEET C 5.3

180 179

189 190 193 194

192 191 196 195

24' PVMT

5' SIDEWALK (TYP.)

TYPE D CURB

A/C UNIT (TYP.)

379 LF RETAINING WALL

SILT FENCE

PROPERTY BOUNDARY

DRY POND 1
(0.15 AC.)
TOB = 14.00
DHW_{100} = 12.88
DHW_{25} = 12.85
DHW_{10} = 12.84
BOT = 9.50

DRY POND 4
(0.14 AC.)
TOB = 10.00
DHW_{100} = 9.09
DHW_{25} = 8.90
DHW_{10} = 8.80
BOT = 7.50

R100'

R38'

R30'

TYPE A CURB

CALL BOX W/ LICENSE PLATE READER

PARCEL ID: 853810000253

PARCEL ID: 853810000251

PARCEL ID: 853810000250

PARCEL ID: 853810000282

LEGEND
- PROPERTY LINE
- PVC FENCE
- 4' PARK FENCE

KEY MAP

C 5.1 C 5.2 C 5.3 C 5.4 C 5.5 C 5.6

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YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

SITE PLAN

Engineering Business Certificate of Authorization No. 32771
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BRANDON D. MACHIELA
FLORIDA LICENSED PROFESSIONAL ENGINEER
REGISTRATION NUMBER 90686

PROJECT No. 199-01-01

SHEET C 5.5

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PROPERTY BOUNDARY/ SILT FENCE

5' SIDEWALK (TYP.)

SEE SHEET C 5.4

SEE SHEET C 5.3

SEE SHEET C 5.5

A/C UNIT (TYP.)

169 170 172 171 173 174 176 175 177 178 180 179

WET POND 3
(0.64 AC.)
TOB = 12.10
DHW_{100} = 9.13
DHW_{25} = 8.30
DHW_{10} = 7.96
NWL = 6.50
BOT = -5.50

DRY POND 2
(1.58 AC.)
TOB = 14.00
DHW_{100} = 12.88
DHW_{25} = 12.85
DHW_{10} = 12.84
BOT = 9.50

SILT FENCE

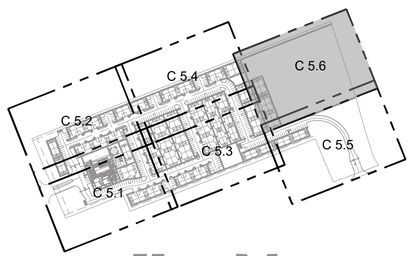
PROPERTY BOUNDARY

PARCEL ID: 853810000282

LEGEND
- PROPERTY LINE
- PVC FENCE
- 4' PARK FENCE

0 10 20 40
SCALE IN FEET

KEY MAP



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YARDLY
EDGEWATER RIVER OAKS

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SITE PLAN

Engineering Business Certificate of Authorization No. 32771
Florida Certificate of Authorization No. LC26000638

BRANDON D. MACHIELA
LICENSE NO. 90686 STATE OF FLORIDA
PROFESSIONAL ENGINEER

BRANDON D. MACHIELA
FLORIDA LICENSED PROFESSIONAL ENGINEER
REGISTRATION NUMBER 90686

PROJECT No.	199-01-01
SHEET	C 5.6

I:\Projects\199-01 Edgewater\Drawings\199-01-01 Construction Plans\Current Plans\199010105 1-SP.dwg
7/15/2024 1:55:52 PM PLOTTED BY brandon.machiela

LEGEND

- EXISTING CONTOUR
- SILT FENCE
- MITERED END SECTION
- MANHOLE
- GRATE INLET/CONTROL STRUCTURE

PROPERTY BOUNDARY/ SILT FENCE

PROPERTY BOUNDARY/ SILT FENCE

SILT FENCE

PROPERTY BOUNDARY

SILT FENCE

PROPERTY BOUNDARY

DOG PARK

ADDITIONAL BORING P-1

ADDITIONAL BORING P-2

ADDITIONAL BORING P-3

ADDITIONAL BORING P-4

ADDITIONAL BORING P-5

GEOWEB WEIR (SEE DETAIL ON SHEET C10.4)

0 30 60 120

SCALE IN FEET

CONSTRUCTION PLAN REVISIONS

1	03/20/24	REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
2	04/26/24	REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
3	06/19/24	REVISED PER CITY OF EDGEWATER COMMENTS
4	07/15/24	REVISED PER CITY OF EDGEWATER COMMENTS

LEVELUP CONSULTING, LLC

505 E. JACKSON STREET
SUITE 200
TAMPA, FLORIDA 33602
OFFICE: 813-375-0616
WWW.LEVELUPFLORIDA.COM

YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

MASTER PAVING, GRADING, AND DRAINAGE

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PROJECT No.	199-01-01
SHEET	C 6.0

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SEE SHEET C 6.2

SEE SHEET C 6.3

PROPERTY BOUNDARY/ SILT FENCE

PARCEL ID: 853810000011

PARCEL ID: 853810000121

PARCEL ID: 853810000120

PROPERTY BOUNDARY

SILT FENCE

PAD 14.2 F.F.E. 14.7

PAD 14.7 F.F.E. 15.2

PAD 14.6 F.F.E. 15.1

PAD 14.5 F.F.E. 15.0

PAD 15.1 F.F.E. 15.6

PAD 15.0 F.F.E. 15.5

PAD 14.7 F.F.E. 15.2

PAD 14.1 F.F.E. 14.6

PAD 15.0 F.F.E. 15.5

PAD 14.8 F.F.E. 15.3

PAD 14.2 F.F.E. 14.7

PAD 14.0 F.F.E. 14.9

PAD 14.4 F.F.E. 14.9

PICKLEBALL

40 LF 8" HDPE @ 0.44%

82 LF 18" RCP @ 0.15%

151 LF 24" RCP @ 0.10%

77 LF 24" RCP @ 0.10%

YARD DRAIN TOP EL. 14.84

YARD DRAIN TOP EL. 14.57

YARD DRAIN TOP EL. 14.35

YARD DRAIN TOP EL. 13.90

D-6 TYPE D GTI TOP EL. 13.17 INV SE = 8.67

D-7 TYPE D GTI TOP EL. 12.65 INV NW = 8.55 INV E = 8.05

D-8 MANHOLE TOP EL. 13.57 INV W = 7.89 INV E = 7.89

LEGEND

- PROPERTY LINE
- RIGHT OF WAY LINE
- EXISTING CONTOUR
- SILT FENCE
- F.F.E. 72.8 — MIN. FINISHED FLOOR ELEV.
- 80.00 — FINISHED GRADE
- 80.00 GB — FINISHED GRADE AT GRADE BREAK
- 80.00 HP — FINISHED GRADE AT HIGH POINT
- MANHOLE
- GRATE INLET/CONTROL STRUCTURE

KEY MAP

C 6.1 C 6.2 C 6.3 C 6.4 C 6.5 C 6.6

SCALE IN FEET

0 10 20 40

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CONSTRUCTION PLAN REVISIONS

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2	04/26/24	REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
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4	07/15/24	REVISED PER CITY OF EDGEWATER COMMENTS

YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

PAVING, GRADING, AND DRAINAGE PLAN

Engineering Business Certificate of Authorization No. 32771
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PROJECT No. 199-01-01

SHEET C 6.1

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KEY MAP

LEGEND

- PROPERTY LINE
- RIGHT OF WAY LINE
- 35 EXISTING CONTOUR
- SILT FENCE
- F.F.E. 72.8 MIN. FINISHED FLOOR ELEV.
- 80.00 FINISHED GRADE
- 80.00 GB FINISHED GRADE AT GRADE BREAK
- 80.00 HP FINISHED GRADE AT HIGH POINT
- MANHOLE
- GRATE INLET/CONTROL STRUCTURE

PARCEL ID: 853711000060

PROPERTY BOUNDARY/ SILT FENCE

D-87 MES INV. SE= 9.80

D-88 MES INV. NW= 9.60

D-1 TYPE D GTI TOP EL. 15.92 INV E = 8.16

D-2 TYPE D GTI TOP EL. 12.87 INV W = 7.92 INV E = 7.92

D-3 TYPE D GTI TOP EL. 13.10 INV W = 7.78 INV S = 10.06 INV E = 7.28

D-4 TYPE D GTI TOP EL. 13.10 INV W = 7.20 INV E = 7.20

160 LF 18" RCP @ 0.15%

90 LF 18" RCP @ 0.15%

80 LF 24" RCP @ 0.10%

41 LF 8" HDPE @ 0.44%

40 LF 8" HDPE @ 0.44%

40 LF 8" HDPE @ 0.44%

PAD 14.1 F.F.E. 14.6

PAD 13.8 F.F.E. 14.3

PAD 14.0 F.F.E. 14.5

PAD 14.6 F.F.E. 15.1

PAD 14.7 F.F.E. 15.2

PAD 14.2 F.F.E. 14.7

PAD 14.5 F.F.E. 15.0

F.F.E. 13.70

YARD DRAIN TOP EL. 14.50

YARD DRAIN TOP EL. 14.84

YARD DRAIN TOP EL. 14.57

-2.0%

-1.5%

-0.6%

SEE SHEET C 6.4

SEE SHEET C 6.1

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0 10 20 40
SCALE IN FEET

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EDGEWATER RIVER OAKS

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PROJECT No.	199-01-01
SHEET	C 6.2

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SEE SHEET C 6.4

SEE SHEET C 6.1

SEE SHEET C 6.6

SEE SHEET C 6.5

YARD DRAIN TOP EL. 14.17

YARD DRAIN TOP EL. 14.22

YARD DRAIN TOP EL. 14.27

YARD DRAIN TOP EL. 14.37

YARD DRAIN TOP EL. 14.30

YARD DRAIN TOP EL. 14.20

YARD DRAIN TOP EL. 14.30

YARD DRAIN TOP EL. 14.30

YARD DRAIN TOP EL. 14.03

YARD DRAIN TOP EL. 14.03

YARD DRAIN TOP EL. 13.90

YARD DRAIN TOP EL. 14.08

YARD DRAIN TOP EL. 13.26

YARD DRAIN TOP EL. 13.88

YARD DRAIN TOP EL. 13.65

YARD DRAIN TOP EL. 13.72

YARD DRAIN TOP EL. 13.72

YARD DRAIN TOP EL. 12.96

YARD DRAIN TOP EL. 13.88

YARD DRAIN TOP EL. 13.88

YARD DRAIN TOP EL. 14.00

YARD DRAIN TOP EL. 14.00

YARD DRAIN TOP EL. 14.05

YARD DRAIN TOP EL. 14.00

PAD 14.5 F.F.E. 15.0

PAD 14.2 F.F.E. 14.7

PAD 14.1 F.F.E. 14.6

PAD 14.0 F.F.E. 14.5

PAD 15.0 F.F.E. 15.5

PAD 14.9 F.F.E. 15.4

PAD 14.4 F.F.E. 14.9

PAD 14.3 F.F.E. 14.8

PAD 14.1 F.F.E. 14.6

PAD 13.9 F.F.E. 14.4

PAD 14.5 F.F.E. 15.0

PAD 14.1 F.F.E. 14.6

PAD 13.9 F.F.E. 14.4

PAD 14.2 F.F.E. 14.7

PAD 14.3 F.F.E. 14.8

PAD 13.8 F.F.E. 14.3

PAD 13.7 F.F.E. 14.2

PAD 14.0 F.F.E. 14.5

PAD 14.0 F.F.E. 14.5

PAD 14.2 F.F.E. 14.7

41 LF 10" HDPE @ 1% MIN SLOPE

40 LF 8" HDPE @ 1% MIN SLOPE

43 LF 8" HDPE @ 1% MIN SLOPE

37 LF 8" HDPE @ 1% MIN SLOPE

51 LF 8" HDPE @ 1% MIN SLOPE

310 LF 30" RCP @ 1.64%

199 LF 24" RCP @ 0.10%

151 LF 18" RCP @ 0.15%

166 LF 18" RCP @ 0.15%

72 LF 8" HDPE

D-9
TYPE D GTI
TOP EL. 13.10
INV W = 7.81
INV E = 7.81

D-10
TYPE D GTI
TOP EL. 12.60
INV W = 7.61
INV N = 7.11

D-15
TYPE D GTI
TOP EL. 12.60
INV S = 7.50

D-16
TYPE D GTI
TOP EL. 12.46
INV N = 7.27
INV E = 7.27

CLEANOUT
TOP EL. 13.54
F.F.E. 13.30

FIRE LANE

DOG PARK

BEGIN RETAINING WALL

PROPERTY BOUNDARY

SILT FENCE

-0.6%

-0.7%

-0.9%

PARCEL ID: 853810000173

PARCEL ID: 853810000171

PARCEL ID: 853810000172

PARCEL ID: 853810000170

PARCEL ID: 853810000250

LEGEND

- PROPERTY LINE
- RIGHT OF WAY LINE
- EXISTING CONTOUR
- SILT FENCE
- F.F.E. 72.8 — MIN. FINISHED FLOOR ELEV.
- FINISHED GRADE
- FINISHED GRADE AT GRADE BREAK
- FINISHED GRADE AT HIGH POINT
- MANHOLE
- GRATE INLET/CONTROL STRUCTURE

KEY MAP

C 6.1 C 6.2 C 6.3 C 6.4 C 6.5 C 6.6

LEVELUP CONSULTING, LLC

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OFFICE: 813-375-0616
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0 10 20 40
SCALE IN FEET

CONSTRUCTION PLAN REVISIONS

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3	06/19/24	REVISED PER CITY OF EDGEWATER COMMENTS
4	07/15/24	REVISED PER CITY OF EDGEWATER COMMENTS

YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

PAVING, GRADING, AND DRAINAGE PLAN

Engineering Business Certificate of Authorization No. 32771
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FLORIDA LICENSED PROFESSIONAL ENGINEER
REGISTRATION NUMBER 90686

PROJECT No. 199-01-01

SHEET C 6.3

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LEGEND

- PROPERTY LINE
- RIGHT OF WAY LINE
- 35 EXISTING CONTOUR
- SILT FENCE
- F.F.E. 72.8 MIN. FINISHED FLOOR ELEV.
- 60.83 FINISHED GRADE
- 60.83 GB FINISHED GRADE AT GRADE BREAK
- 60.83 HP FINISHED GRADE AT HIGH POINT
- MANHOLE
- GRATE INLET/CONTROL STRUCTURE

KEY MAP

PARCEL ID: 853711000060

PROPERTY BOUNDARY/ SILT FENCE

SEE SHEET C 6.2

SEE SHEET C 6.6

SEE SHEET C 6.3

PAD 14.2 F.F.E. 14.7

PAD 13.8 F.F.E. 14.3

PAD 13.9 F.F.E. 14.4

PAD 14.0 F.F.E. 14.5

PAD 14.5 F.F.E. 15.0

PAD 14.1 F.F.E. 14.6

F.F.E. 13.30

F.F.E. 13.20

F.F.E. 13.70

D-11 TYPE D GTI
TOP EL. 12.60
INV W = 6.92
INV S = 2.03
INV S = 9.17
INV E = 1.53

D-5 TYPE D GTI
TOP EL. 12.82
INV W = 7.04
INV E = 7.04

D-12 TYPE D GTI
TOP EL. 12.60
INV W = 1.46
INV E = 1.46

D-13 TYPE D GTI
TOP EL. 12.79
INV W = 1.40
INV S = 9.06
INV NE = 0.40

D-15 TYPE D GTI

116 LF 24" RCP @ 0.10%

160 LF 24" RCP @ 0.10%

124 LF 36" RCP @ 0.06%

100 LF 36" RCP @ 0.06%

156 LF 48" RCP @ 0.04%

71 LF 12" HDPE @ 1% MIN SLOPE

48 LF 12" HDPE @ 1% MIN SLOPE

52 LF 12" HDPE @ 1% MIN SLOPE

86 LF 10" HDPE @ 0.33%

42 LF 12" HDPE @ 0.21%

41 LF 12" HDPE @ 1% MIN SLOPE

67 LF 12" HDPE @ 1% MIN SLOPE

41 LF 8" HDPE @ 1% MIN SLOPE

41 LF 10" HDPE @ 1% MIN SLOPE

40 LF 8" HDPE @ 1% MIN SLOPE

43 LF 8" HDPE @ 1% MIN SLOPE

37 LF 8" HDPE @ 1% MIN SLOPE

51 LF 8" HDPE @ 1% MIN SLOPE

CLEANOUT TOP EL. 14.47

CLEANOUT TOP EL. 14.13

CLEANOUT TOP EL. 13.83

CLEANOUT TOP EL. 14.02

CLEANOUT TOP EL. 14.03

CLEANOUT TOP EL. 13.84

YARD DRAIN TOP EL. 14.17

YARD DRAIN TOP EL. 14.22

YARD DRAIN TOP EL. 14.00

YARD DRAIN TOP EL. 13.65

YARD DRAIN TOP EL. 14.14

YARD DRAIN TOP EL. 14.37

YARD DRAIN TOP EL. 13.90

YARD DRAIN TOP EL. 13.72

YARD DRAIN TOP EL. 13.86

FIRE LANE

LEVELUP CONSULTING, LLC

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SUITE 200
TAMPA, FLORIDA 33602
OFFICE: 813-375-0616
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0 10 20 40
SCALE IN FEET

CONSTRUCTION PLAN REVISIONS

A	03/29/24	REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
A	04/26/24	REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
A	06/19/24	REVISED PER CITY OF EDGEWATER COMMENTS
A	07/15/24	REVISED PER CITY OF EDGEWATER COMMENTS

YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

PAVING, GRADING, AND DRAINAGE PLAN

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PROJECT No. 199-01-01

SHEET C 6.4

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SEE SHEET C 6.6

SEE SHEET C 6.3

72 LF 8" HDPE @ 0.44%

176 LF 18" RCP @ 0.15%

65 LF 36" RCP @ 0.00%

65 LF 36" RCP @ 0.00%

D-17
TYPE D GTI
TOP EL. 12.46
INV W = 7.02
INV W = 9.17
INV E = 7.02

D-18
TYPE D GTI
TOP EL. 12.46
INV W = 6.76
INV N = 5.25
INV SE = 5.25

PAD 13.7
F.F.E. 14.2

PAD 14.0
F.F.E. 14.5

P-4 UES Report No. 2063504
ELEV: 9.99

D-20
TYPE D GTI
TOP EL. 9.50
INV NW = 5.25

DRY POND 1
(0.15 AC.)
TOB = 14.00
DHW_{100} = 12.88
DHW_{25} = 12.85
DHW_{10} = 12.84
BOT = 9.50

SILT FENCE

PROPERTY BOUNDARY

25 LF OF EX. 15" RCP

EX. INV = 4.01

EX. INV = 3.88

D-26
MANHOLE
TOP EL. 12.99
INV S = 4.87
INV E = 4.87

D-27
MES
INV W= 4.00

76 LF 48" RCP @ 1.14%

40 LF 48" RCP @ 0.19%

D-24
MES
INV NE= 5.00

P-3 UES Report No. 1941330
ELEV: 8.71

49 LF 48" RCP @ 0.10%

D-25
MANHOLE
TOP EL. 12.19
INV SW = 4.99
INV N = 4.99

SILT FENCE

PROPERTY BOUNDARY

CS-2
TYPE C GTI
TOP EL. 10.00
INV E = 4.00

D-21
TYPE D GTI
TOP EL. 11.41
INV S = 6.55

D-28
MES
INV W= 3.00

133 LF 15" RCP @ 0.75%

DRY POND 4
(0.14 AC.)
TOB = 10.00
DHW_{100} = 9.09
DHW_{25} = 8.90
DHW_{10} = 8.80
BOT = 7.50

D-23
TYPE D GTI
TOP EL. 7.90
INV SE = 6.21

P-5 UES Report No. 2063504
ELEV. 9.92

137 LF 18" RCP @ 0.15%

86 LF 18" RCP @ 0.15%

D-22
TYPE D GTI
TOP EL. 9.09
INV N = 6.34
INV NW = 6.34

D-29
MES
INV E= 5.86

142 LF 15" RCP @ 0.60%

D-30
MES
INV W= 5.00

PARCEL ID: 853810000253

PARCEL ID: 853810000251

PARCEL ID: 853810000250

PARCEL ID: 853810000282

LEGEND

- PROPERTY LINE
- RIGHT OF WAY LINE
- 35 EXISTING CONTOUR
- SILT FENCE
- F.F.E. 72.8 — MIN. FINISHED FLOOR ELEV.
- 80.83 FINISHED GRADE
- 80.80 GB FINISHED GRADE AT GRADE BREAK
- 80.80 HP FINISHED GRADE AT HIGH POINT
- MANHOLE
- GRATE INLET/CONTROL STRUCTURE

KEY MAP

C 6.1 C 6.2 C 6.3 C 6.4 C 6.5 C 6.6

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0 10 20 40
SCALE IN FEET

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YARDLY
EDGEWATER RIVER OAKS

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PROJECT No. 199-01-01

SHEET C 6.5

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PROPERTY BOUNDARY/ SILT FENCE

SEE SHEET C 6.4

SEE SHEET C 6.3

SEE SHEET C 6.5

D-14
TYPE D GTI
TOP EL. 9.50
INV. SW = 0.34

RIP-RAP

PAD 14.0
F.F.E. 14.5

PAD 14.0
F.F.E. 14.5

PAD 13.7
F.F.E. 14.2

169 170 171 172 173 174 175 176 177 178 179 180

DRY POND 2
(1.58 AC.)
TOB = 14.00
DHW_{100} = 12.88
DHW_{25} = 12.85
DHW_{10} = 12.84
BOT = 9.50

GEOWEB WEIR
EL. 12.79
(SEE DETAIL ON SHEET C10.4)

WET POND 3
(0.64 AC.)
TOB = 12.10
DHW_{100} = 9.13
DHW_{25} = 8.30
DHW_{10} = 7.96
NWL = 6.50
BOT = -5.50

P-1 UES Report No. 1941330
ELEV. 10.56

P-1 UES Report No. 2063504
ELEV. 8.22

P-2 UES Report No. 2063504
ELEV. 9.58

P-3 UES Report No. 2063504
ELEV. 10.00

CS-1
TYPE C GTI
TOP EL. 12.10
INV. E = 4.00

72 LF 24" RCP @ 1.39%

D-31
MES
INV. W= 3.00

RIP-RAP

D-19
TYPE D GTI
TOP EL. 9.50
INV. S = 5.25

RIP-RAP

65 LF 36" RCP @ 0.00%

SILT FENCE

PROPERTY BOUNDARY

PARCEL ID: 853810000282

LEGEND

- PROPERTY LINE
- RIGHT OF WAY LINE
- EXISTING CONTOUR
- SILT FENCE
- F.F.E. 72.8 — MIN. FINISHED FLOOR ELEV.
- 480.00 — FINISHED GRADE
- 480.00 HP — FINISHED GRADE AT HIGH POINT
- MANHOLE
- GRATE INLET/CONTROL STRUCTURE

0 10 20 40
SCALE IN FEET

C 6.1 C 6.2 C 6.3 C 6.4 C 6.5 C 6.6

KEY MAP

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EDGEWATER RIVER OAKS

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REGISTRATION NUMBER 90686

PROJECT No.	199-01-01
SHEET	C 6.6

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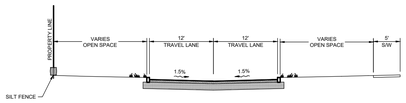
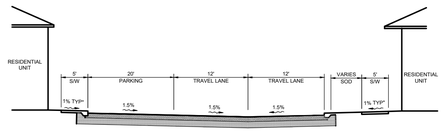


SECTION A-A
NTS



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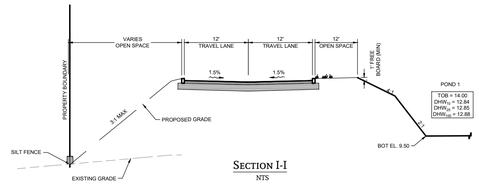
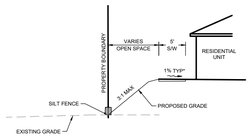


SECTION I-I
NTS



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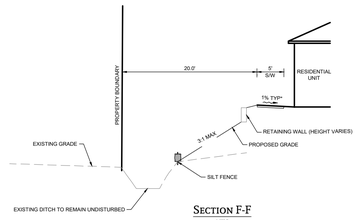

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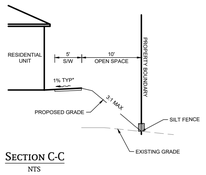

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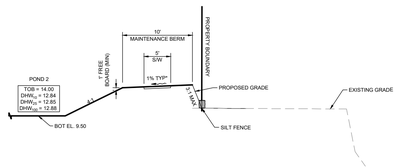

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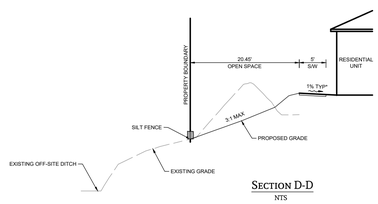

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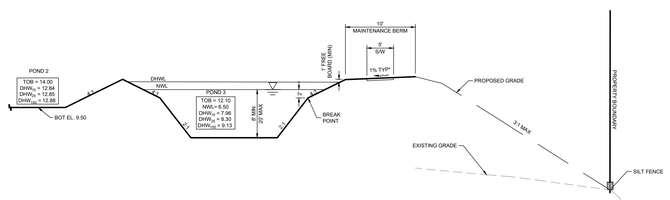

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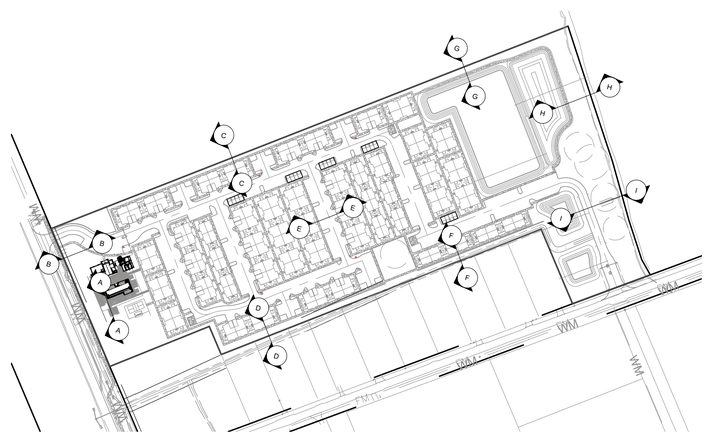

LEVELUP CONSULTING, LLC
505 E. JACKSON STREET
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TAMPA, FLORIDA 33602
OFFICE: 813-375-0616
WWW.LEVELUPFLORIDA.COM

CONSTRUCTION PLAN REVISIONS

1	03/20/24	REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
2	04/26/24	REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
3	06/19/24	REVISED PER CITY OF EDGEWATER COMMENTS
4	07/15/24	REVISED PER CITY OF EDGEWATER COMMENTS

YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

CROSS SECTIONS

Engineering Business Certificate of Authorization No. 32771
Florida Certificate of Authorization No. LC26000638

BRANDON D. MACHIELA
LICENSE NO. 90686
STATE OF FLORIDA
PROFESSIONAL ENGINEER

BRANDON D. MACHIELA
FLORIDA LICENSED PROFESSIONAL ENGINEER
REGISTRATION NUMBER 90686

PROJECT No. 199-01-01

SHEET C 7.0

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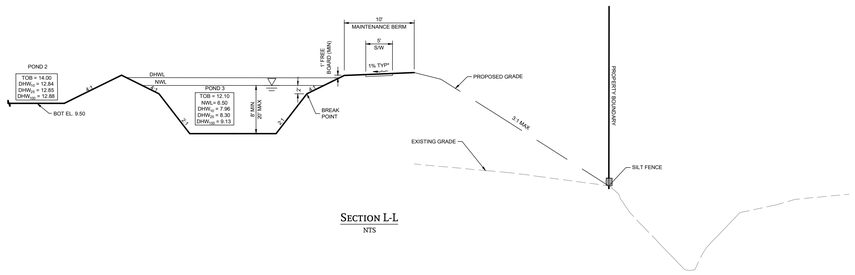

SECTION L-L
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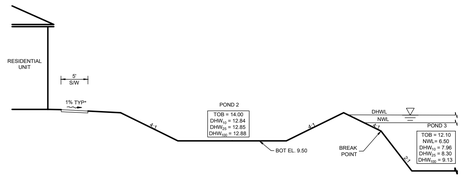
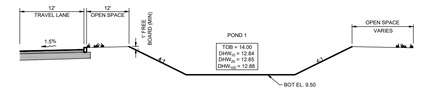


SECTION M-M
NTS



SECTION K-K
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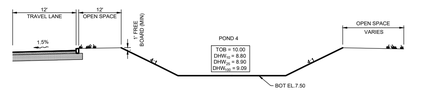

SECTION J-J
NTS

LEVELUP CONSULTING, LLC
505 E. JACKSON STREET
SUITE 200
TAMPA, FLORIDA 33602
OFFICE: 813-375-0616
WWW.LEVELUPFLORIDA.COM

CONSTRUCTION PLAN REVISIONS

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3	06/19/24	REVISED PER CITY OF EDGEWATER COMMENTS
4	07/15/24	REVISED PER CITY OF EDGEWATER COMMENTS

YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

CROSS SECTIONS

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BRANDON D. MACHIELA
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REGISTRATION NUMBER 90686

PROJECT No. 199-01-01

SHEET C 7.1

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LEGEND

- WATER MAIN
- MANHOLE W/ FLOW DIRECTION

NOTE:

1. CONTRACTOR TO SUPPORT THE FM AND WM WHERE THE SS IS CROSSING UNDERNEATH.
2. CITY OF EDGEWATER SHALL OWN, OPERATE, AND MAINTAIN THE NEWLY CONSTRUCTED WATER MAIN FROM THE TAP UP TO AND INCLUDING THE METER. THEREFORE ALL WORK IN THE ROW SHALL BE IN ACCORDANCE TO CITY OF EDGEWATER UTILITY STANDARDS.
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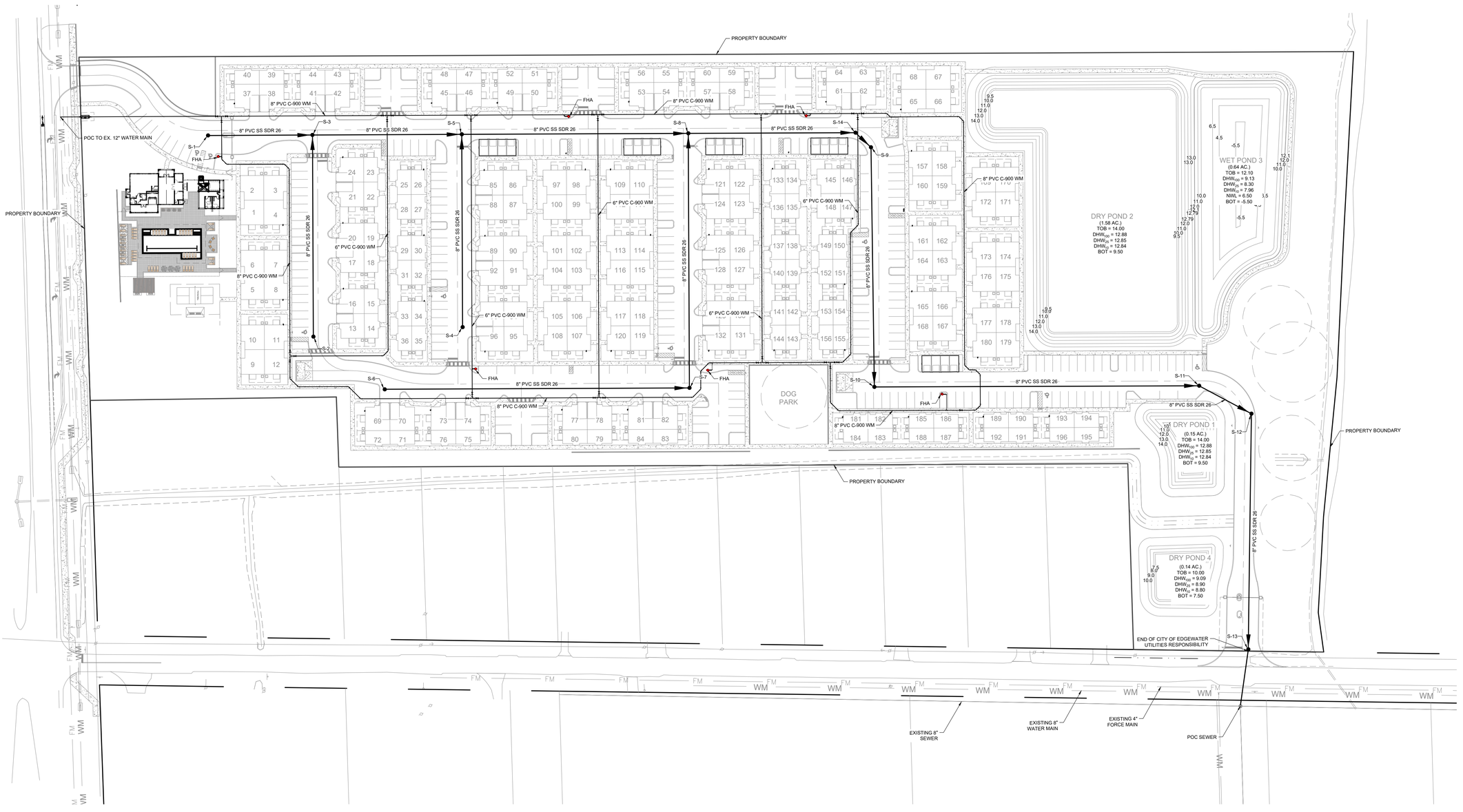
4. CITY OF EDGEWATER FIRE CHIEF SHALL BE THE SOLE PERSON TO APPROVE HYDRANT LOCATIONS.



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SCALE IN FEET

CONSTRUCTION PLAN REVISIONS

1	03/20/24	REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
2	04/26/24	REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
3	06/19/24	REVISED PER CITY OF EDGEWATER COMMENTS
4	07/15/24	REVISED PER CITY OF EDGEWATER COMMENTS

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YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

MASTER UTILITY PLAN

Engineering Business Certificate of Authorization No. 32771
Florida Certificate of Authorization No. LC26006038

BRANDON D. MACHIELA
LICENSE NO. 90686 STATE OF FLORIDA
PROFESSIONAL ENGINEER

BRANDON D. MACHIELA
FLORIDA LICENSED PROFESSIONAL ENGINEER
REGISTRATION NUMBER 90686

PROJECT No. 199-01-01

SHEET C 8.0

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SEE SHEET C 8.2

SEE SHEET C 8.3

4" CLEANOUT
TOP EL. 13.97

121 LF 6" PVC WM
(TEE TO MATCH-LINE)

4" CLEANOUT
TOP EL. 14.01

4" SANITARY SERVICE
1% MIN. (TYP.)

4" CLEANOUT
TOP EL. 14.43

246 LF 8" PVC @ 0.40%

4" CLEANOUT
TOP EL. 14.37

4" SANITARY SERVICE
1% MIN. (TYP.)

4" CLEANOUT
TOP EL. 13.96

4" CLEANOUT
TOP EL. 14.48

4" CLEANOUT
TOP EL. 14.90

171 LF 8" PVC WM
(MATCH-LINE TO TEE)

188 LF 6" PVC WM
(MATCH-LINE TO FHA)

1" WATER SERVICE (TYP.)

287 LF 6" PVC WM
(TEE TO MATCH-LINE)

235 LF 8" PVC @ 1.30%

4" CLEANOUT
TOP EL. 13.96

1" WATER SERVICE (TYP.)

4" CLEANOUT
TOP EL. 14.43

4" SANITARY SERVICE
1% MIN. (TYP.)

S-4
48" MANHOLE
TOP EL. 14.11
INV N = 10.08

4" CLEANOUT
TOP EL. 14.04

4" CLEANOUT
TOP EL. 13.92

S-2
MANHOLE
TOP EL. 13.04
INV N = 9.01

(2) 6" 45° WM BEND

(1) 8X6 TEE WM
(2) 8" GV WM
(1) 6" GV WM

FHA

36 LF 6" PVC WM
(FHA TO TEE)

S-5
48" MANHOLE
TOP EL. 13.85
INV E = 9.79

371 LF 8" PVC @ 0.42%

(2) 8" 45° WM BEND

4" SANITARY SERVICE
1% MIN. (TYP.)

(1) 8X6 TEE WM
(2) 8" GV WM
(1) 6" GV WM

259 LF 8" PVC WM
(TEE TO TEE)

43 LF 8" PVC WM
(TEE TO MATCH-LINE)

(2) 8" 45° WM BEND

4" CLEANOUT
TOP EL. 14.03

4" CLEANOUT
TOP EL. 14.49

1" WATER SERVICE (TYP.)

PICKLEBALL

PROPERTY
BOUNDARY

PROPERTY
BOUNDARY

PARCEL ID: 853810000011

PARCEL ID: 853810000121

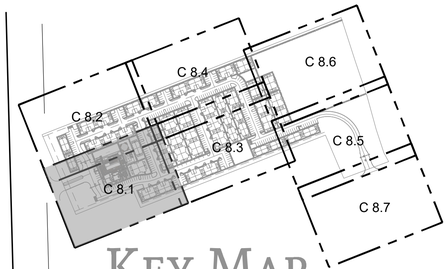
PARCEL ID: 853810000120

FM

WM

BM

KEY MAP



LEGEND

WATER	SANITARY SEWER
WATER MAIN	MANHOLE W/ FLOW DIRECTION
GATE VALVE	SINGLE SERVICE
REDUCER	NOTE: NO VALVES ARE TO BE INSTALLED WITHIN THE CURB LINE, CURB RAMPS OR DETECTABLE WARNING SURFACES.
FIRE HYDRANT ASSEMBLY	
SINGLE SERVICE	

NOTE:

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LEVELUP CONSULTING, LLC
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TAMPA, FLORIDA 33602
OFFICE: 813-375-0616
WWW.LEVELUPFLORIDA.COM

0 10 20 40
SCALE IN FEET

CONSTRUCTION PLAN REVISIONS

1	03/20/24	REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
2	04/26/24	REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
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YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

UTILITY PLAN

Engineering Business Certificate of Authorization No. 32771
Florida Certificate of Authorization No. LC26000638

BRANDON D. MACHIELA
LICENSE
NO. 90686
STATE OF FLORIDA
PROFESSIONAL ENGINEER

BRANDON D. MACHIELA
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REGISTRATION NUMBER 90686

PROJECT No. 199-01-01

SHEET C 8.1

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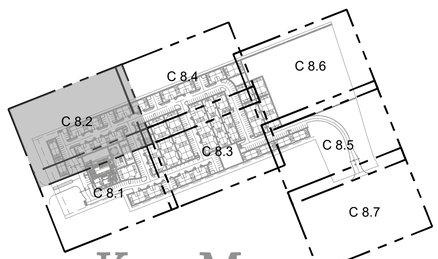

KEY MAP

LEGEND

WATER	SANITARY SEWER
WATER MAIN	MANHOLE W/ FLOW DIRECTION
GATE VALVE	SINGLE SERVICE
REDUCER	
FIRE HYDRANT ASSEMBLY	
SINGLE SERVICE	

NOTE:
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PARCEL ID: 853711000060

EXISTING 12" WATER MAIN
EXISTING 10" FORCE MAIN
END OF VOLUSIA COUNTY UTILITIES RESPONSIBILITY
8" WATER SERVICE BILLING METER/BACKFLOW ASSEMBLY (SEE DETAIL ON SHEET C 11.0)
PROPERTY BOUNDARY
WET TAP EXISTING 12" WATER MAIN WITH 12"X8" STAINLESS STEEL TAPPING SLEEVE AND VALVE. CONTRACTOR TO FIELD VERIFY LOCATION OF WATER MAIN
196 LF 8" PVC WM (POC TO TEE)
(1) 8X8 TEE WM
(3) 8" GV WM
1" WATER SERVICE (TYP.)
4" CLEANOUT TOP EL. 14.08
4" CLEANOUT TOP EL. 13.72
201 LF 8" PVC WM (TEE TO TEE)
(1) 8X6 TEE WM
(2) 8" GV WM
(1) 6" GV WM
4" CLEANOUT TOP EL. 13.90
4" SANITARY SERVICE 1% MIN. (TYP.)
102 LF 8" PVC WM (TEE TO TEE)
42 LF 8" PVC WM (TEE TO MATCH-LINE)
S-3
48" MANHOLE
TOP EL. 13.00
INV W = 8.03
INV S = 8.03
INV E = 7.83
127 LF 8" PVC @ 1.13%
S-1
48" MANHOLE
TOP EL. 13.47
INV E = 9.47
49 LF 8" PVC WM (TEE TO FHA)
(2) 8" 45° WM BEND
FHA
147 LF 8" PVC WM (FHA TO MATCH-LINE)
(2) 8" 45° WM BEND
S-5
48" MANHOLE
TOP EL. 13.19
INV W = 7.02
INV S = 7.02
INV E = 6.92
121 LF 6" PVC WM (TEE TO MATCH-LINE)
1" WATER SERVICE (TYP.)
4" CLEANOUT TOP EL. 14.42
235 LF 8" PVC @ 1.30%
121 LF 6" PVC WM (TEE TO MATCH-LINE)
4" CLEANOUT TOP EL. 14.01
4" SANITARY SERVICE 1% MIN. (TYP.)
4" CLEANOUT TOP EL. 14.43
4" CLEANOUT TOP EL. 13.67
246 LF 8" PVC @ 0.40%
4" CLEANOUT TOP EL. 14.37
FIRE LANE
PROPERTY BOUNDARY
SEE SHEET C 8.4
SEE SHEET C 8.1

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0 10 20 40
SCALE IN FEET

CONSTRUCTION PLAN REVISIONS

1	03/29/24	REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
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YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

UTILITY PLAN

Engineering Business Certificate of Authorization No. 32771
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BRANDON D. MACHIELA
FLORIDA LICENSED PROFESSIONAL ENGINEER
REGISTRATION NUMBER 90686

PROJECT No. 199-01-01

SHEET C 8.2

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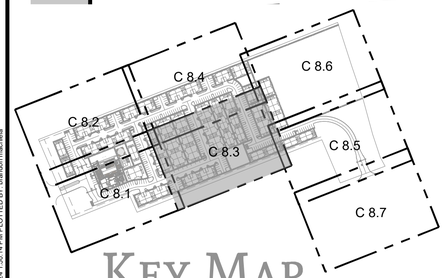
SEE SHEET C 8.4

SEE SHEET C 8.1

SEE SHEET C 8.6

SEE SHEET C 8.5

4" SANITARY SERVICE 1% MIN. (TYP.)
4" CLEANOUT TOP EL. 14.21
121 LF 6" PVC WM (TEE TO MATCH-LINE)
4" CLEANOUT TOP EL. 14.11
4" CLEANOUT TOP EL. 13.99
4" CLEANOUT TOP EL. 14.10
120 LF 6" PVC WM (TEE TO MATCH-LINE)
292 LF 8" PVC @ 0.40%
1" WATER SERVICE (TYP.)
(2) 6" 45° WM BEND
FIRE LANE
6" SANITARY SERVICE 1% MIN. (TYP.)
4" SANITARY SERVICE 1% MIN. (TYP.)
4" CLEANOUT TOP EL. 14.88
4" CLEANOUT TOP EL. 14.53
4" CLEANOUT TOP EL. 14.33
206 LF 6" PVC WM (TEE TO MATCH-LINE)
4" CLEANOUT TOP EL. 14.05
4" CLEANOUT TOP EL. 13.85
4" CLEANOUT TOP EL. 14.00
224 LF 6" PVC WM (TEE TO MATCH-LINE)
182 LF 6" PVC WM (TEE TO MATCH-LINE)
6" SANITARY SERVICE 1% MIN. (TYP.)
310 LF 8" PVC @ 0.75%
292 LF 8" PVC @ 0.40%
4" SANITARY SERVICE 1% MIN. (TYP.)
4" CLEANOUT TOP EL. 14.51
4" CLEANOUT TOP EL. 14.08
4" CLEANOUT TOP EL. 13.84
4" CLEANOUT TOP EL. 13.93
4" CLEANOUT TOP EL. 14.10
4" CLEANOUT TOP EL. 14.20
4" SANITARY SERVICE 1% MIN. (TYP.)
61 LF 8" PVC WM (FHA TO TEE)
83 LF 8" PVC WM (TEE TO TEE)
(2) 8" 45° WM BEND
(2) 6" 45° WM BEND
S-7
48" MANHOLE
TOP EL. 12.79
INV W = 8.23
INV N = 8.03
FHA
FIRE LANE
(1) 8X6 TEE WM
(2) 8" GV WM
(1) 6" GV WM
S-10
48" MANHOLE
TOP EL. 12.61
INV N = 3.44
INV E = 3.34
371 LF 8" PVC @ 0.42%
168 LF 8" PVC WM (TEE TO FHA)
395 LF 8" PVC @ 0.40%
112 LF 8" PVC WM (MATCH-LINE TO TEE)
4" SANITARY SERVICE 1% MIN. (TYP.)
(1) 8" REDUCER WM
194 LF 8" PVC WM (TEE TO FHA)
DOG PARK
4" CLEANOUT TOP EL. 13.70
4" CLEANOUT TOP EL. 13.13
4" CLEANOUT TOP EL. 13.41
(1) 8" GV WM
1" WATER SERVICE (TYP.)
(1) 8X6 TEE WM
(2) 8" GV WM
(1) 6" GV WM
20 LF " PVC WM (FHA TO MATCH-LINE)



KEY MAP

LEGEND

WATER	SANITARY SEWER
WATER MAIN	MANHOLE W/ FLOW DIRECTION
GATE VALVE	SINGLE SERVICE
REDUCER	
FIRE HYDRANT ASSEMBLY	
SINGLE SERVICE	

NOTE:
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4. CITY OF EDGEWATER FIRE CHIEF SHALL BE THE SOLE PERSON TO APPROVE HYDRANT LOCATIONS.

PROPERTY BOUNDARY

PARCEL ID: 853810000172
PARCEL ID: 853810000170
PARCEL ID: 853810000250

LEVELUP CONSULTING, LLC
505 E. JACKSON STREET
SUITE 200
TAMPA, FLORIDA 33602
OFFICE: 813-375-0616
WWW.LEVELUPFLORIDA.COM

0 10 20 40
SCALE IN FEET

CONSTRUCTION PLAN REVISIONS

1	03/29/24	REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
2	04/26/24	REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
3	06/19/24	REVISED PER CITY OF EDGEWATER COMMENTS
4	07/15/24	REVISED PER CITY OF EDGEWATER COMMENTS

YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

UTILITY PLAN

Engineering Business Certificate of Authorization No. 32771
Florida Certificate of Authorization No. LC26000638
BRANDON D. MACHIELA LICENSE NO. 90686 STATE OF FLORIDA PROFESSIONAL ENGINEER
BRANDON D. MACHIELA
FLORIDA LICENSED PROFESSIONAL ENGINEER
REGISTRATION NUMBER 90686

PROJECT No. 199-01-01

SHEET C 8.3

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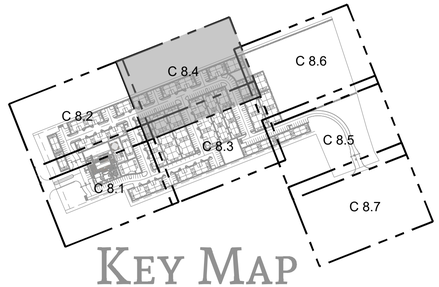
LEGEND

WATER	SANITARY SEWER
WATER MAIN	MANHOLE W/ FLOW DIRECTION
GATE VALVE	SINGLE SERVICE
REDUCER	
FIRE HYDRANT ASSEMBLY	
SINGLE SERVICE	

NOTE:
NO VALVES ARE TO BE INSTALLED WITHIN THE CURB LINE, CURB RAMPS OR DETECTABLE WARNING SURFACES.



KEY MAP

NOTE:

1. CONTRACTOR TO SUPPORT THE FM AND WM WHERE THE SS IS CROSSING UNDERNEATH
2. CITY OF EDGEWATER SHALL OWN, OPERATE, AND MAINTAIN THE NEWLY CONSTRUCTED WATER MAIN FROM THE TAP UP TO AND INCLUDING THE METER. THEREFORE ALL WORK IN THE ROW SHALL BE IN ACCORDANCE TO CITY OF EDGEWATER UTILITY STANDARDS.
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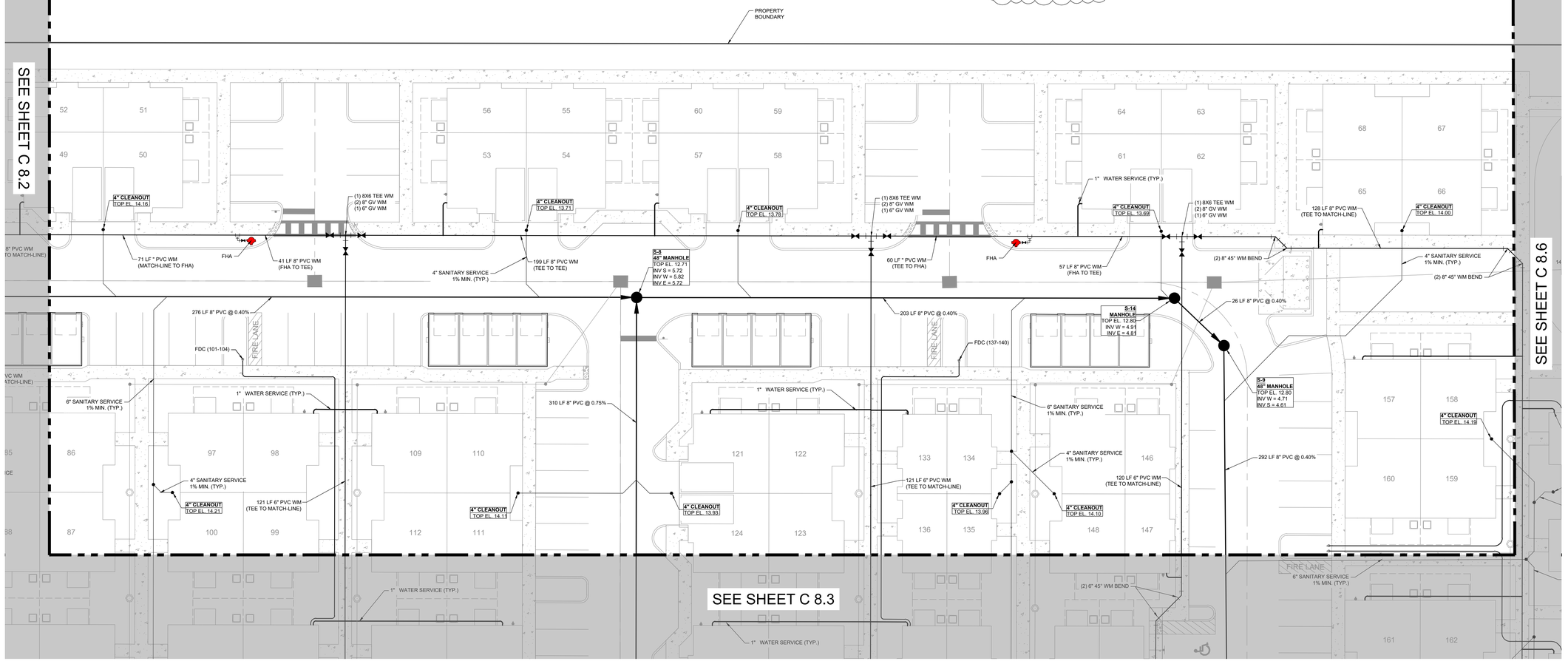
4. CITY OF EDGEWATER FIRE CHIEF SHALL BE THE SOLE PERSON TO APPROVE HYDRANT LOCATIONS.

PARCEL ID: 853711000060



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4	07/15/24	REVISED PER CITY OF EDGEWATER COMMENTS

YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

UTILITY PLAN

Engineering Business Certificate of Authorization No. 32771
Florida Certificate of Authorization No. LC26009638

BRANDON D. MACHIELA
FLORIDA LICENSED PROFESSIONAL ENGINEER
REGISTRATION NUMBER 90686

PROJECT No. 199-01-01

SHEET C 8.4

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SEE SHEET C 8.6

SEE SHEET C 8.3

SEE SHEET C 8.7

180 179

189 190 193 194

192 191 196 195

6" SANITARY SERVICE
1% MIN. (TYP.)

(4) 8" 45° WM BEND

395 LF 8" PVC @ 0.40%

S-11
48" MANHOLE
TOP EL. 13.03
INV W = 1.76
INV E = 1.66

72 LF 8" PVC @ 0.40%

FHA

102 LF " PVC WM
(MATCH-LINE TO MATCH-LINE)

4" CLEANOUT
TOP EL. 13.10

4" SANITARY SERVICE
1% MIN. (TYP.)

4" CLEANOUT
TOP EL. 13.33

(1) 8" GV WM

(2) 8" 45° WM BEND

1" WATER SERVICE (TYP.)

S-12
48" MANHOLE
TOP EL. 13.75
INV W = 1.37
INV S = 1.27

DRY POND 1
(0.15 AC.)
TOB = 14.00
DHW_{100} = 12.88
DHW_{25} = 12.85
DHW_{10} = 12.84
BOT = 9.50

14.0
13.0
12.0
11.0
10.0
9.5

PROPERTY
BOUNDARY

PARCEL ID: 853810000253

PARCEL ID: 853810000251

PARCEL ID: 853810000250

PARCEL ID: 853810000282

DRY POND 4
(0.14 AC.)
TOB = 10.00
DHW_{100} = 9.09
DHW_{25} = 8.90
DHW_{10} = 8.80
BOT = 7.50

7.5
8.0
9.0
10.0

287 LF 8" PVC @ 0.40%

PROPERTY
BOUNDARY

END OF CITY OF EDGEWATER
UTILITIES RESPONSIBILITY

S-13
MANHOLE
TOP EL. 9.23
INV N = 0.12
INV S = 0.02

LEGEND

WATER	SANITARY SEWER
WATER MAIN	MANHOLE W/ FLOW DIRECTION
GATE VALVE	SINGLE SERVICE
REDUCER	
FIRE HYDRANT ASSEMBLY	
SINGLE SERVICE	

NOTE:
NO VALVES ARE TO BE INSTALLED WITHIN THE CURB LINE, CURB RAMPS OR DETECTABLE WARNING SURFACES.

NOTE:

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4. CITY OF EDGEWATER FIRE CHIEF SHALL BE THE SOLE PERSON TO APPROVE HYDRANT LOCATIONS.

C 8.1 C 8.2 C 8.3 C 8.4 C 8.5 C 8.6 C 8.7

KEY MAP

0 10 20 40
SCALE IN FEET

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WWW.LEVELUPFLORIDA.COM

YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

UTILITY PLAN

Engineering Business Certificate of Authorization No. 32771
Florida Certificate of Authorization No. LC26000638

BRANDON D. MACHIELA
FLORIDA LICENSED PROFESSIONAL ENGINEER
REGISTRATION NUMBER 90686

PROJECT No.	199-01-01
SHEET	C 8.5

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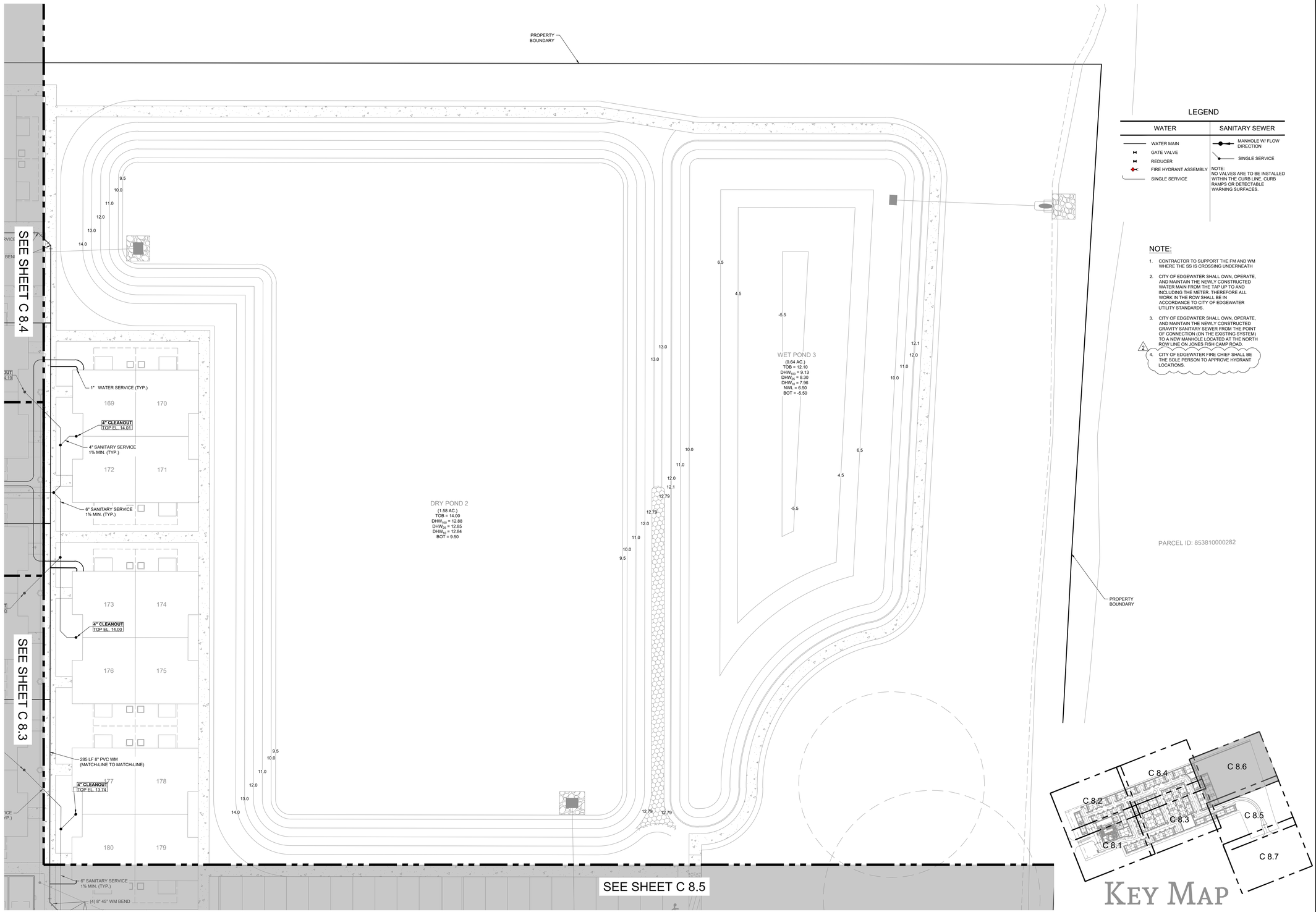

LEGEND

WATER	SANITARY SEWER
WATER MAIN	MANHOLE W/ FLOW DIRECTION
GATE VALVE	SINGLE SERVICE
REDUCER	NOTE: NO VALVES ARE TO BE INSTALLED WITHIN THE CURB LINE. CURB RAMPS OR DETECTABLE WARNING SURFACES.
FIRE HYDRANT ASSEMBLY	
SINGLE SERVICE	

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0 10 20 40
SCALE IN FEET

KEY MAP

LEVELUP CONSULTING, LLC
505 E. JACKSON STREET
SUITE 200
TAMPA, FLORIDA 33602
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WWW.LEVELUPFLORIDA.COM

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YARDLY
EDGEWATER RIVER OAKS

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BRANDON D. MACHIELA
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PROJECT No.	199-01-01
SHEET	C 8.6

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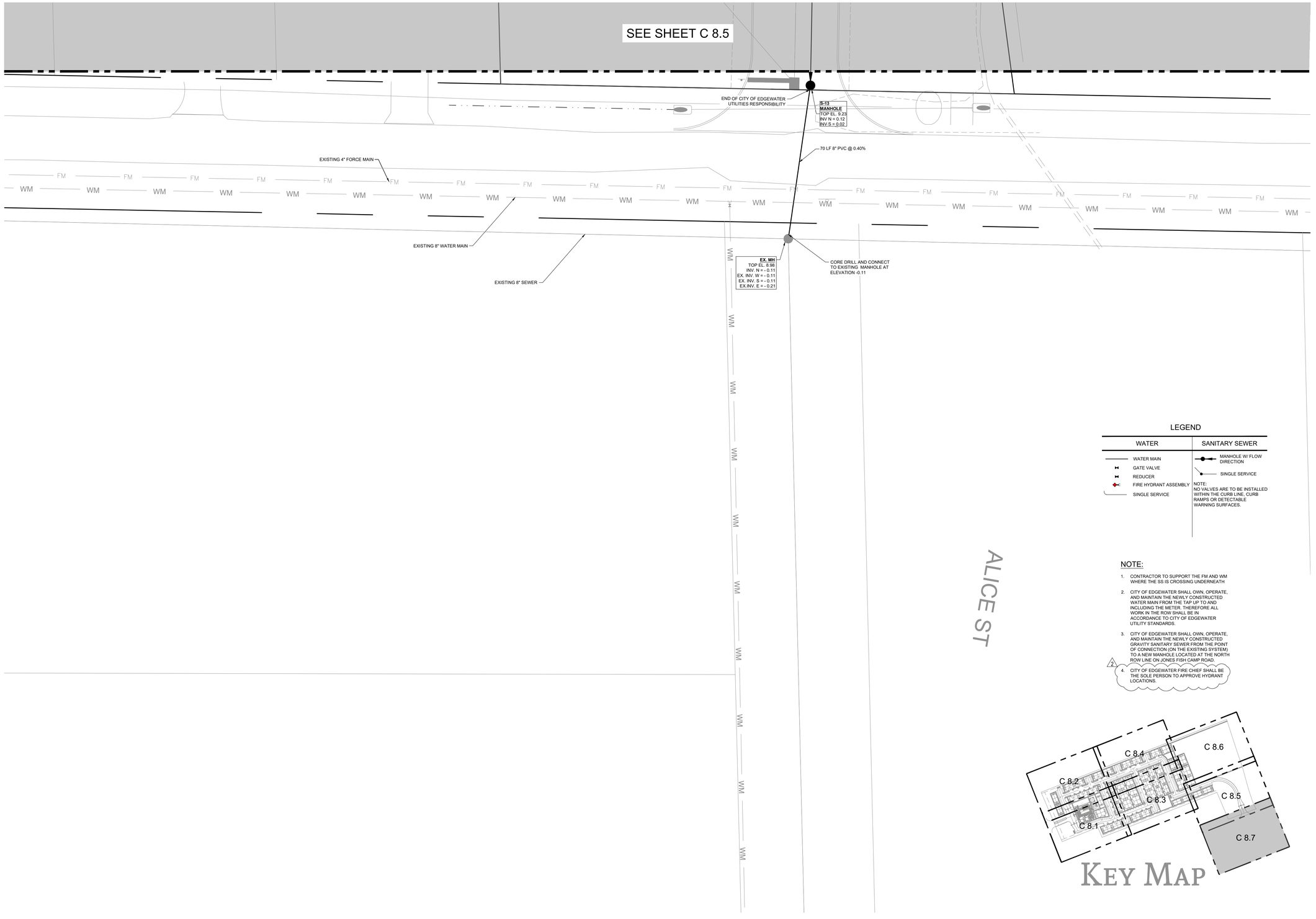

LEGEND

WATER	SANITARY SEWER
WATER MAIN	MANHOLE W/ FLOW DIRECTION
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YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

UTILITY PLAN

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PROJECT No.	199-01-01
SHEET	C 8.7

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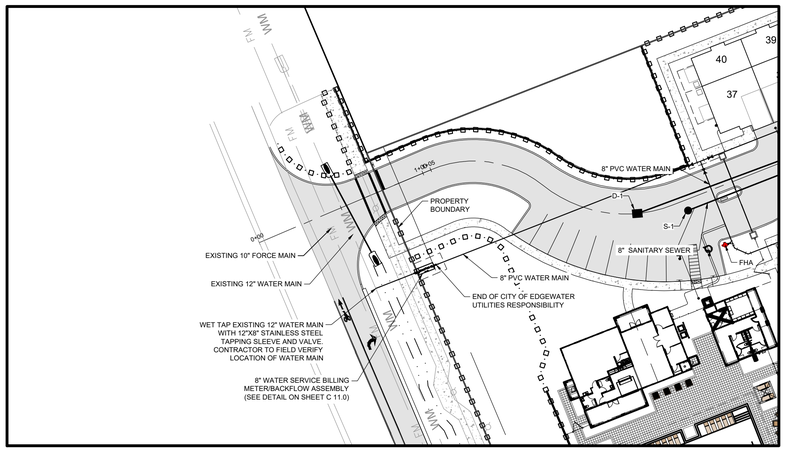
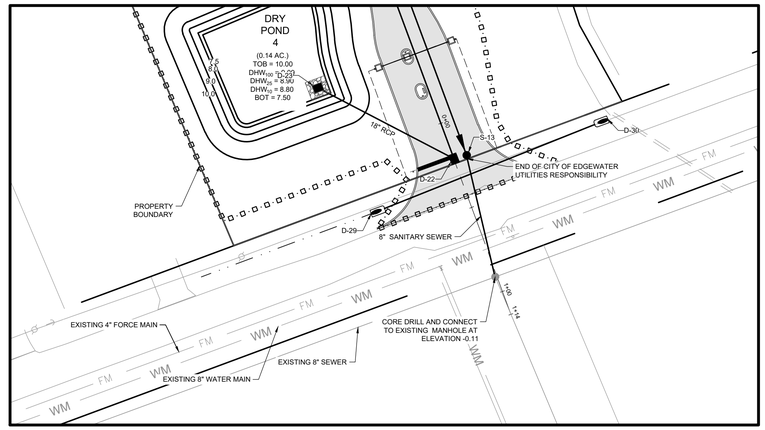
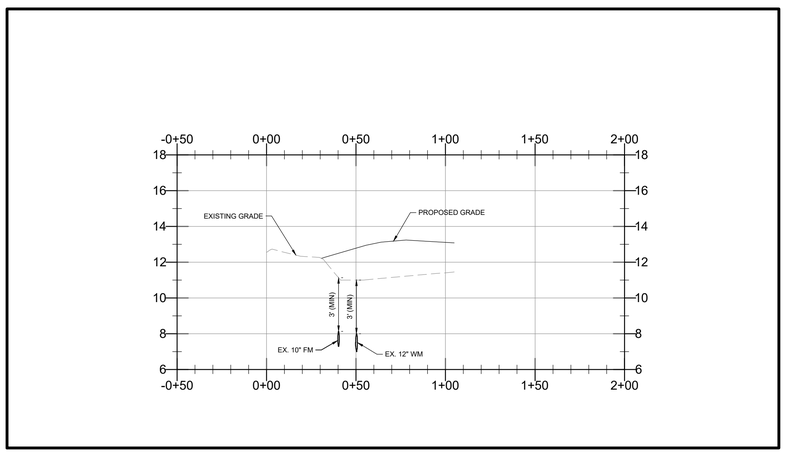




PROFILE SCALE:
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 4'



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HORIZONTAL: 1" = 40'
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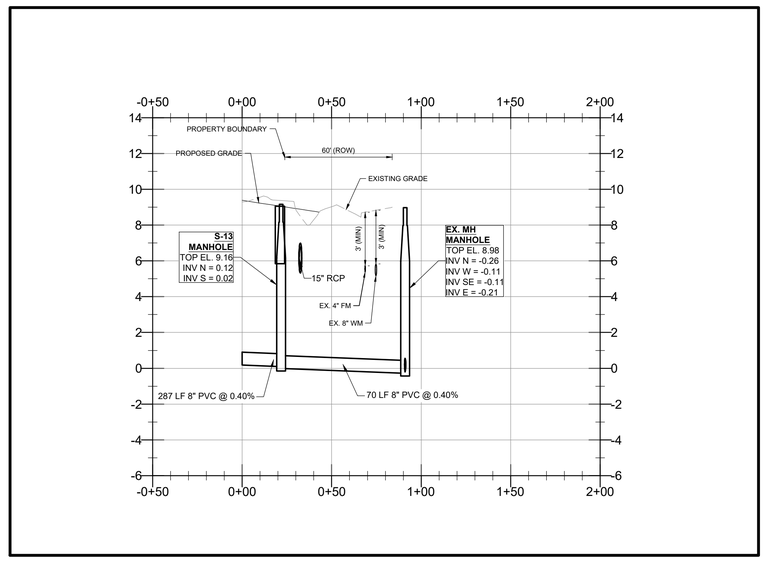

LEVELUP CONSULTING, LLC
505 E. JACKSON STREET
SUITE 200
TAMPA, FLORIDA 33602
OFFICE: 813-375-0616
WWW.LEVELUPFLORIDA.COM

CONSTRUCTION PLAN REVISIONS

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YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

Engineering Business Certificate of Authorization No. 32771
Florida Certificate of Authorization No. LC26000638

BRANDON D. MACHIELA
LICENSE
NO. 90686
STATE OF FLORIDA
PROFESSIONAL ENGINEER

BRANDON D. MACHIELA
FLORIDA LICENSED PROFESSIONAL ENGINEER
REGISTRATION NUMBER 90686

PROJECT No. 199-01-01

SHEET

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NOTE:

1. FIRE DEPARTMENT CONNECTIONS (FDC) TO BE PERMITTED SEPARATELY AT TIME OF BUILDING PERMITS.
2. FDCs SHOWN TO BE WITHIN 300' OF FIRE HYDRANT, SHOWN WITH CIRCLES AROUND HYDRANTS.

LEVELUP CONSULTING, LLC

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SCALE IN FEET

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YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

MASTER FIRE PLAN

Engineering Business Certificate of Authorization No. 32771
Florida Certificate of Authorization No. LC26000638

BRANDON D. MACHIELA
LICENSE
NO. 90686
STATE OF FLORIDA
PROFESSIONAL ENGINEER

BRANDON D. MACHIELA
FLORIDA LICENSED PROFESSIONAL ENGINEER
REGISTRATION NUMBER 90686

PROJECT No. 199-01-01

SHEET C8.9

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SIGNAGE / HATCH LEGEND

1) STREET A DRIVE D3 STREET B DRIVE D3 STOP R1-1 36"	2) SPEED LIMIT 25 R2-1 24"x30" 3) OM4-1 RED 18"x18"	4) FL DOT FTP-21-06 18"x18" PARKING BY DISABLED PERMIT ONLY FL DOT FTP-21-06 18"x12" FINE $250 MIN FL DOT FTP-22-06 12"x6" NOTE: SEE SHEET C 9.1 FOR DETAIL	5) W11-2 30" x 30" W16-7PL 24" x 12"	6) R4-7 24"x30" OM1-1 YELLOW 18"x18"	NO PARKING ANY TIME 8) R7-1 12" x 18" 7) NO OUTLET W14-2 30" x 30"	FDC 9) UNITS 101, 102, 103 & 104 10" x 14" UNIT NUMBERS TO CORRESPOND TO CORRECT UNIT

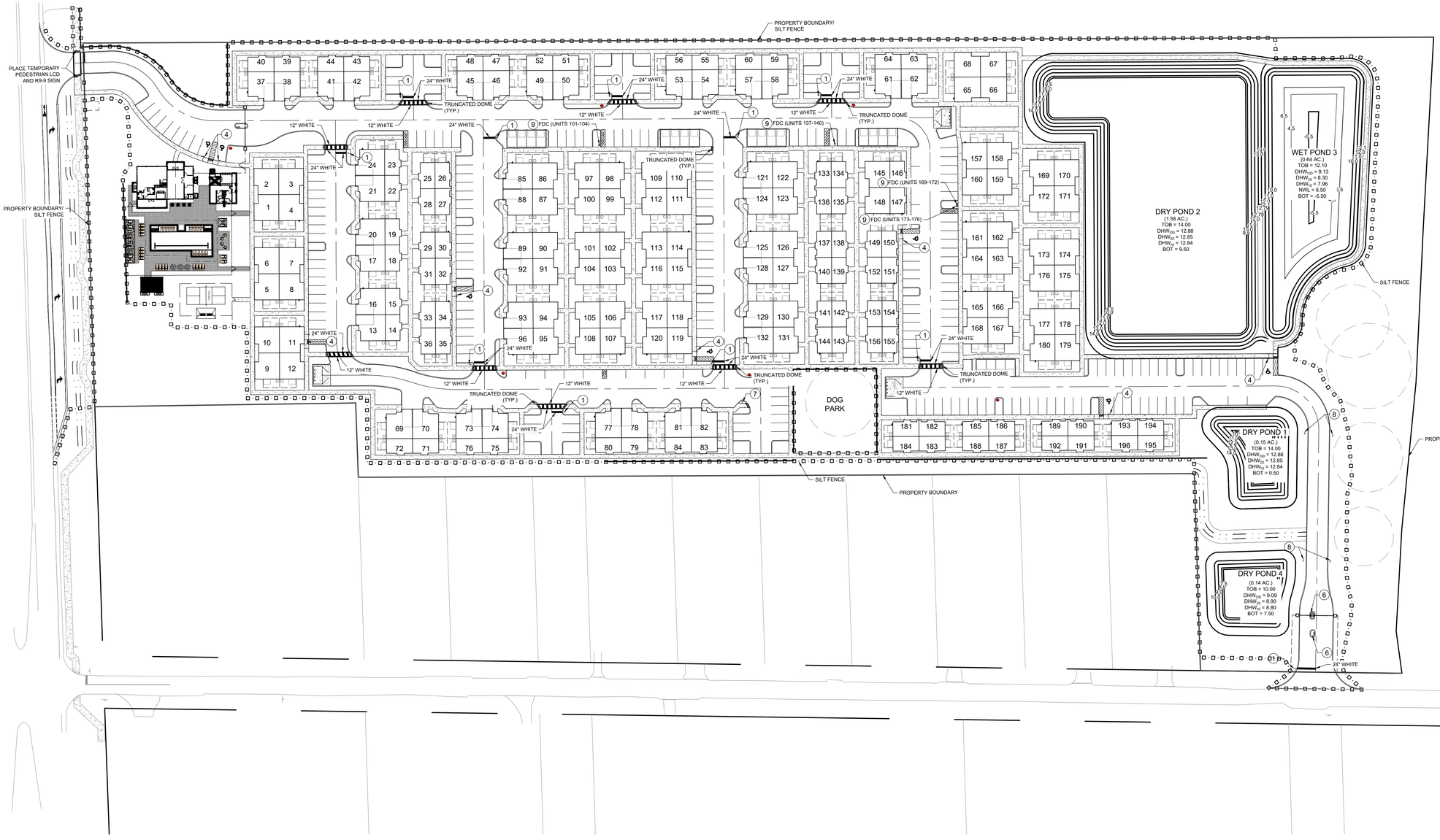
NOTE: DETAILS REFERENCED
M.U.T.C.D. & F.D.O.T. DESIGN STANDARDS

F.D.O.T. DESIGN STANDARDS
INDEX # 102-660 - SIDEWALK CLOSURE
INDEX # 522-020 - DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS
INDEX # 700-010 - SINGLE COLUMN GROUND SIGNS
INDEX # 711-001 - PAVEMENT MARKINGS
INDEX # 705-109 - TRAFFIC CONTROLS FOR STREET TERMINATIONS
INDEX # 706-001 - TYPICAL PLACEMENT OF REFLECTIVE PAVEMENT MARKERS

M.U.T.C.D.
SECTION 2B.05 - STOP SIGN (R1-1)
SECTION 2B.13 - SPEED LIMIT SIGN (R2-1)
SECTION 2B.46 - PARKING RESTRICTIONS (R7-1)
SECTION 2C.58 - ADVANCE STREET NAME PLAQUE
SECTION 2C.26 - DEAD END / NO OUTLET SINGS
SECTION 2D.38 - STREET NAME SIGN (D3-1)
SECTION 2B.39 - PARKING, STANDING, AND STOPPING SIGNS (R8-1)
SECTION 3C - OBJECT MARKERS (OM4-1)

LEGEND
- RIGHT OF WAY LINE
- EASEMENT LINE
- LA BUFFER
- WETLAND LINE
- WETLAND SETBACK LINE
- SILT FENCE
- FEMA LINE

NOTE: ALL AFFECTED SIDEWALKS, RAMPS, AND CROSSWALKS, WILL BE BUILT AND INSPECTED TO MEET CURRENT ADA REQUIREMENTS.



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YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

SIGNAGE AND PAVEMENT MARKING PLAN

Engineering Business Certificate of Authorization No. 32771
Florida Certificate of Authorization No. LC26000638

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PROFESSIONAL ENGINEER

BRANDON D. MACHIELA
FLORIDA LICENSED PROFESSIONAL ENGINEER
REGISTRATION NUMBER 90686

PROJECT No.	199-01-01
SHEET	C 9.0

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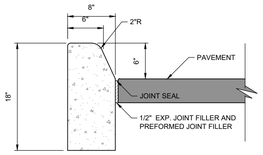
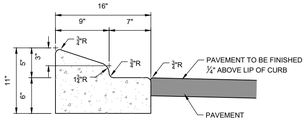
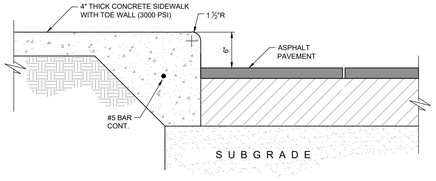


TYPE "D" CURB

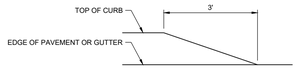


TYPE "A" CURB



RAISED SIDEWALK DETAIL

SCALE: N.T.S.



3' CURB TRANSITION

GENERAL PAVEMENT DESIGN/MATERIAL NOTES:

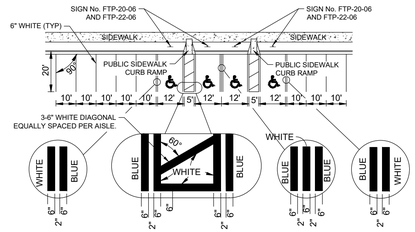
1. PAVEMENT DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF MOUNT DORA LAND DEVELOPMENT CODE.
2. SECOND LIFT OF ASPHALT (TYPE SP-12.5) TO BE COMPLETED AFTER HOME CONSTRUCTION IS COMPLETE.
3. 12" STABILIZED SUB GRADE MIN. LBR 40, COMPACTED TO 98% MOD. PROCTOR MAX. DRY DENSITY (ASTM D-1557)
4. WHEN NO CURB IS PROPOSED CRUSHED CONCRETE BASE TO EXTEND 6" BEYOND EDGE OF PAVEMENT.
5. ALL UNDERGROUND UTILITIES MUST BE INSTALLED PRIOR TO PREPARATION OF SUBGRADE FOR PAVEMENT.
6. ALL SIDEWALKS SHALL COMPLY WITH ADA REQUIREMENTS.
7. 6" CRUSHED CONCRETE MAY BE USED AS AN ALTERNATIVE BASE. THEN THE BASE SHALL BE COMPACTED BY ROLLING WITH A COMBINATION OF STEEL WHEEL AND RUBBER TIRED ROLLERS UNTIL AN AVERAGE DENSITY OF 98 PERCENT OF THE MAXIMUM DENSITY OBTAINABLE UNDER AASHTO METHOD T-180 IS REACHED. THE BASE SHALL HAVE AN AVERAGE LBR OF NOT LESS THAN 150.

PAVEMENT DESIGN

LAYER TYPE	STRUCTURAL COEFFICIENT	PROPOSED THICKNESS (IN)	SN
TYPE SP-12.5 ASPHALTIC CONCRETE	0.44	1.50	0.66
LIMEROCK BASE (LBR 100)	0.18	6.00	1.08
COMPACTED SUBGRADE (LBR 40 / 98% MOD. PROCTOR)	0.04	12.00	0.48
TOTAL PROPOSED SN			2.22

TYPICAL ROAD PAVING SECTION

SCALE: N.T.S.



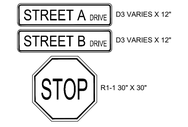
HANDICAP PARKING SPACE DETAIL

SCALE: N.T.S.

NOTE:
SITE ACCESSIBILITY HAS BEEN DESIGNED TO COMPLY WITH THE 6TH EDITION 2017 FLORIDA BUILDING CODE FOR ACCESSIBILITY AND THE 2017 FDOT STANDARDS.

HANDICAPPED PARKING SIGNAGE DETAIL

SCALE: N.T.S.



STOP SIGN AND ROAD NAME SIGNAGE DETAIL

SCALE: N.T.S.

NOTES:
COMPACTOR ENCLOSURE REQUIREMENTS

THE SCREENING ENCLOSURE WILL BE A MINIMUM OF 6' IN HEIGHT AND MADE COMPATIBLE WITH THE MATERIALS ON THE FRONT BUILDING WALL OF THE MAIN BUILDING.

1. THE OPENING DOORS WILL BE SOLID AND HAVE LOCKING PINS TO HOLD THEM OPEN DURING SERVICE. THE OPENING INTERIOR DOOR WIDTH WILL MATCH THE WIDTH OF THE INTERIOR WIDTH OF THE ENCLOSURE. IF DOOR HARDWARE IS INSTALLED ON THE INTERIOR OF THE ENCLOSURE WALL, THEN THE ENCLOSURE WILL BE ENLARGED TO ACCOMMODATE THE DIFFERENCE.
2. SAFETY BOLLARDS WILL BE INSTALLED INSIDE, WITHIN THE REAR 2', OF THE COMPACTOR ENCLOSURE.
3. A GRADE LEVEL CONCRETE SLAB AT A MINIMUM 6" THICK/4,000 POUNDS PER SQUARE INCH WILL BE PLACED FOR THE COMPACTOR TO BE SET ON.
4. THE COMPACTOR WILL BE LOCATED ON GRADE OR WITHIN THE BUILDING AT GRADE LEVEL A 26' VERTICAL CLEARANCE WILL BE PROVIDED OVER THE COMPACTOR, OVER THE SERVICE VEHICLE AT THE POINT OF COLLECTION AND AT THE DOOR OPENING TO ALLOW ADEQUATE SPACE FOR PICK UP AND DROP OFF.

OR

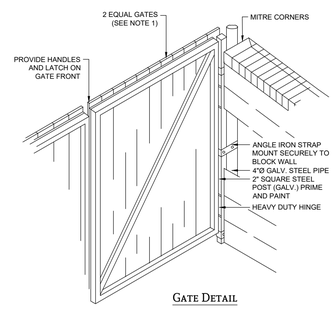
THE COMPACTOR WILL BE LOCATED WITHIN THE BUILDING SET ON A 46' (3'10") HIGH DOCK/PLATFORM WITH A WINCH SYSTEM INSTALLED. A 16' VERTICAL CLEARANCE WILL BE PROVIDED OVER THE COMPACTOR, OVER THE SERVICE VEHICLE AT THE POINT OF COLLECTION AND AT THE DOOR OPENING TO ALLOW ADEQUATE SPACE FOR PICK UP AND DROP OFF.

5. ALL SOLID WASTE VEHICLE DRIVE AISLES AND SOLID WASTE VEHICLE MANEUVERING AREAS (OUTSIDE OF THE COLLECTION AREAS) SHALL PROVIDE A MINIMUM 16' CLEARANCE FROM FINISHED GRADE LEVEL TO LOWEST PART OF OVERHEAD STRUCTURE/TREE CANOPY/DRIVE THRU CANOPY.
6. ALL SOLID WASTE VEHICLE DRIVE AISLES AND SOLID WASTE VEHICLE MANEUVERING AREAS SHALL BE CONSTRUCTED TO CURRENT STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

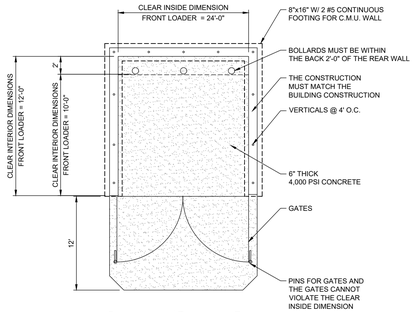
DUMPSTER SCREENING ENCLOSURE REQUIREMENTS

THE SCREENING ENCLOSURE WILL BE A MINIMUM OF 6' IN HEIGHT AND MADE COMPATIBLE WITH THE MATERIALS ON THE FRONT BUILDING WALL OF THE MAIN BUILDING. (NO CHAIN LINK FENCING)(PVC OR CONCRETE BLOCK IS RECOMMENDED)

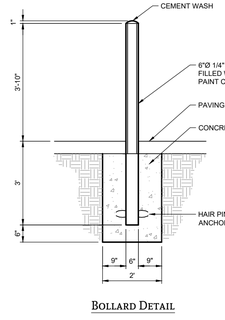
1. THE OPENING DOORS WILL BE SOLID AND HAVE LOCKING PINS TO HOLD THEM OPEN DURING SERVICE. THE OPENING INTERIOR DOOR WIDTH WILL MATCH THE WIDTH OF THE INTERIOR WIDTH OF THE ENCLOSURE. IF DOOR HARDWARE IS INSTALLED ON THE INTERIOR OF THE ENCLOSURE WALL, THEN THE ENCLOSURE WILL BE ENLARGED TO ACCOMMODATE THE DIFFERENCE.
2. SAFETY BOLLARDS WILL BE INSTALLED INSIDE, WITHIN THE REAR 2', OF ALL DUMPSTER ENCLOSURES.
3. A GRADE LEVEL CONCRETE SLAB AT A MINIMUM 6" THICK/4,000 POUNDS PER SQUARE INCH WILL BE PLACED FOR THE DUMPSTER TO BE SET ON. (SAME DIMENSIONS OF THE ENCLOSURE INTERIOR)
4. A 21' VERTICAL CLEARANCE WILL BE PROVIDED OVER THE DUMPSTER AND OVER THE SERVICE VEHICLE AT THE POINT OF COLLECTION.
5. ALL SOLID WASTE VEHICLE DRIVE AISLES AND SOLID WASTE VEHICLE MANEUVERING AREAS (OUTSIDE OF THE COLLECTION AREAS) SHALL PROVIDE A MINIMUM 16' CLEARANCE FROM FINISHED GRADE LEVEL TO LOWEST PART OF OVERHEAD STRUCTURE/TREE CANOPY/UTILITY WIRES/DRIVE THRU CANOPIES.
6. ALL SOLID WASTE VEHICLE DRIVE AISLES AND SOLID WASTE VEHICLE MANEUVERING AREAS SHALL BE CONSTRUCTED TO CURRENT STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.



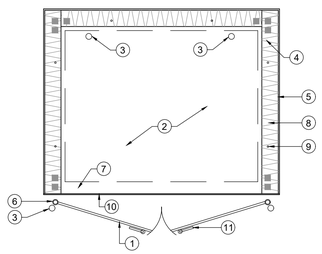
GATE DETAIL



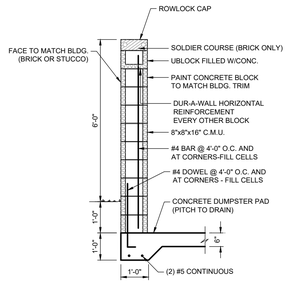
COMPACTOR / DUMPSTER PLAN



BOLLARD DETAIL



PLAN DETAIL



WALL SECTION

NOTES:

1. GATE (MATERIAL PER LOCAL JURISDICTION) (PRIME & PAINT TO MATCH BLDG. AS APPLICABLE) EACH GATE SHALL HAVE A HANDLE & AN OPEN & CLOSURE DEVICE (TO BE PAINTED) UNDERCUT GATE TO CLEAR CURB TO OPEN (TYP.)
2. 6" CONC. SLAB W/FIBERMESH REINF. ON 6 MIL VAPOR BARRIER ON COMPACTED FILL APPLY 2 COATS OF "CLEAR BOND" CONCRETE SEALER ON CONC. APRON. SEE CONC. SPEC.'S
3. 6" Ø STEEL BOLLARD PIPE (FILLED W/CONC. GROUT) SET IN 24" Ø x 42" DEEP CONC. FOOTING PRIMED & PAINTED PER ARCH
4. #5 W/6" BEND INTO U-BLOCK STEEL & DOWEL INTO BELL FOOTING W/6" BEND (10 REQUIRED) FILL CELL BLOCKS W/3000 P.S.I. CONCRETE
5. FACE TO MATCH BUILDING (BRICK OR STUCCO)
6. GATES FASTENED TO 4" Ø BUMPER POST W/HEAVY-DUTY INDUSTRIAL HINGES
7. 12" x 12" BELL FOOTING W/ #4 TOP & BOTTOM (TYP.)
8. 8" CONC. BLOCK WALL (TYP.)
9. #5 @ 4'-0" O.C. (TYP.)
10. E.J.
11. STEEL DROP LOCKING PIN W/HOLES IN PAVEMENT AT OPEN & CLOSED POSITION (TYP.)

COMPACTOR / DUMPSTER ENCLOSURE DETAIL

SCALE: N.T.S.

LEVELUP CONSULTING, LLC
505 E. JACKSON STREET
SUITE 200
TAMPA, FLORIDA 33602
OFFICE: 813-375-0616
WWW.LEVELUPFLORIDA.COM

CONSTRUCTION PLAN REVISIONS

1	03/20/24	REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
2	04/26/24	REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
3	06/19/24	REVISED PER CITY OF EDGEWATER COMMENTS
4	07/15/24	REVISED PER CITY OF EDGEWATER COMMENTS

YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

SIGNAGE AND PAVEMENT MARKING DETAILS

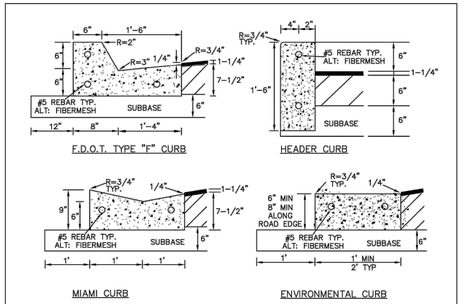
Engineering Business Certificate of Authorization No. 32771
Florida Certificate of Authorization No. LC26000838

BRANDON D. MACHIELA
LICENSE
NO. 90686
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

BRANDON D. MACHIELA
FLORIDA LICENSED PROFESSIONAL ENGINEER
REGISTRATION NUMBER 90686

PROJECT No.	199-01-01
SHEET	C 9.1

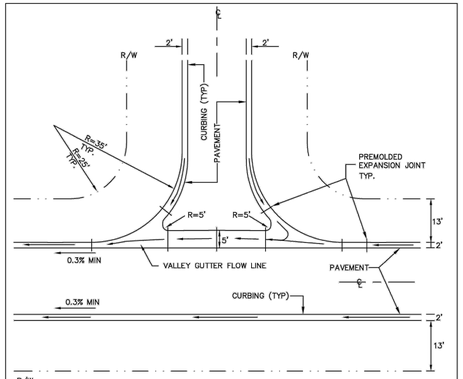
I:\Projects\199-01 Edgewater\Drawings\199-01-01 Construction Plans\Current Plans\199010109.1-SPMD.dwg
7/19/2024 1:37:56 PM PLOTTED BY: Brandon Machiela



NOTES:

1. ALL CURBS TO BE CONSTRUCTED OF 28 DAY, 3000 P.S.I. CONCRETE REINFORCED W/ #5 REBAR OR FIBERMESH
2. 1/2" PRE-MOLDED EXPANSION JOINT REQUIRED EVERY 500', CONSTRUCTION JOINT REQUIRED EVERY 10' MAXIMUM (4' MINIMUM).
3. 1/2" PRE-MOLDED EXPANSION JOINT REQUIRED AT EACH SIDE OF ALL STORM INLET STRUCTURES AND AT ALL RADIUS POINTS.
4. 6" SUBBASE TO BE COMPACTED AND TESTED TO 98% DENSITY BASED ON AASHTO T-180 MODIFIED PROCTOR TEST AND SHALL BE STABILIZED TO A MINIMUM L.B.R. 40.
5. EXPANSION JOINT MATERIAL MUST COVER THE ENTIRE CROSS SECTION OF CURB.
6. IN NO INSTANCE SHALL EXTRUDED CURBS (DEFINED AS HEADER-TYPE CURBS INSTALLED DIRECTLY ON TOP OF PAVEMENT) BE PERMITTED.
7. ALL ASPHALT AND/OR PAVER DRIVEWAY APRONS LOCATED IN PUBLIC RIGHT-OF-WAY, SHALL INCLUDE CURBING

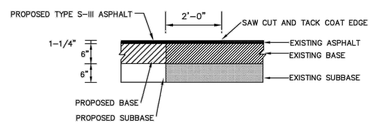
EDGEWATER 2016-03-21	STANDARD CONSTRUCTION DETAIL STANDARD CURB CONSTRUCTION	FILE NAME: EW_R9.DWG DETAIL REF: R-9



NOTES:

1. VALLEY GUTTER TO HAVE A STANDARD MINIMUM LONGITUDINAL SLOPE OF 0.30%
2. VALLEY GUTTER TO BE CONSTRUCTED OF 28 DAY, 3000 P.S.I. CONCRETE
3. 6" SUBBASE TO BE COMPACTED AND TESTED TO 98% DENSITY WITH MINIMUM L.B.R. 40 BASED ON AASHTO T-180 MODIFIED PROCTOR TEST.
4. VALLEY GUTTERS ARE REQUIRED WHEN STORMWATER CROSSES THE INTERSECTION OF ROADWAYS AND DRIVEWAY CONNECTIONS.
5. REFER TO F.D.O.T. STANDARD INDEX No. 300

EDGEWATER	STANDARD CONSTRUCTION DETAIL ROADWAY INTERSECTION VALLEY GUTTER	FILE NAME: EW_R10.DWG DETAIL REF: R-10



EDGEWATER	STANDARD CONSTRUCTION DETAIL PAVEMENT BUTT JOINT	FILE NAME: EW_R11.DWG DETAIL REF: R-11

ROADWAY AND PARKING AREA DESIGN AND CONSTRUCTION NOTES

ALL MATERIALS AND INSTALLATION METHODS USED FOR LAND DEVELOPMENT CODE REQUIRED IMPROVEMENTS FOR SUBDIVISIONS AND SITE PLANS SHALL BE IN CONFORMANCE WITH THE CITY, FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), AND THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS (LATEST EDITION).

1. ALL RIGHT-OF-WAY OTHER THAN ROADWAY AREAS SHALL BE SODDED. ALL SLOPES STEEPER THAN 6:1 SHALL REQUIRE SODDING. THE CITY RESERVES THE RIGHT TO REQUIRE SODDING IN SPECIAL AREAS WHERE EROSION IS A CONCERN.
2. THE FOLLOWING WILL BE THE STANDARD PROTECTION FOR DITCHES UNLESS DRAINAGE CALCULATIONS INDICATE OTHERWISE:

SWALE PROFILE GRADES	PROTECTION REQUIRED
0.2%- 1.0%	GRASSING AND MULCHING
1.0%-4.0%	SODDING
4.0% AND GREATER	DITCH PAVING

3. THE PAVEMENT, BASE, AND SUBBASE THICKNESS PRESENTED ON DETAILS REPRESENTS THE MINIMUM REQUIREMENTS FOR LOCAL PUBLIC STREETS AND PRIVATE PARKING LOTS. THE CITY RESERVES THE RIGHT AT IT'S DISCRETION TO INCREASE THESE REQUIREMENTS FOR COLLECTOR AND ARTERIAL ROADWAYS AND PRIVATE PARKING LOTS SUBJECTED TO HEAVY VEHICULAR COMMERCIAL TRAFFIC.
4. THE DEVELOPER SHALL PROVIDE AT THEIR OWN EXPENSE A CERTIFIED SOILS ENGINEERING LABORATORY TO PERFORM ALL FIELD AND LABORATORY TESTING REQUIRED TO VERIFY THAT THE CONSTRUCTION IS IN COMPLIANCE WITH THE CITY'S MINIMUM STANDARDS. IT IS THE RESPONSIBILITY OF THE DEVELOPER TO ENSURE THAT COPIES OF ALL TEST REPORTS ARE PROVIDED TO THE CITY'S DESIGNATED SITE INSPECTOR PRIOR TO THE PROJECT FINAL INSPECTION IN ORDER TO ALLOW PROJECT ACCEPTANCE BY THE CITY.
5. THE LIMITS OF STABILIZED SUBBASE SHALL EXTEND TO A DEPTH OF SIX INCHES (6") BELOW THE BOTTOM OF THE BASE AND OUTWARD TO TWELVE INCHES (12") BEYOND THE CURB.
6. THE STABILIZING MATERIAL, IF REQUIRED, SHOULD BE A HIGH BEARING VALUE SOIL, SAND-CLAY, LIMEROCK, RECYCLED CONCRETE, SHELL, OR OTHER MATERIAL AS APPROVED BY THE CITY'S DESIGNATED SITE INSPECTOR AND A LICENSED SOILS ENGINEER.
7. THE SUBBASE SHALL BE STABILIZED NOT LESS THAN FORTY (40) POUNDS LIMEROCK BEARING RATIO (LBR) TO A 6" MINIMUM DEPTH. A COMPACTION OF NO LESS THAN NINETY-EIGHT (98 %) PERCENT DENSITY BASED ON AASHTO T-180 SHALL BE REQUIRED.
8. FOR ROADWAYS, TESTS FOR SUBBASE BEARING CAPACITY AND COMPACTION SHALL BE DONE AT A MINIMUM OF EVERY 300 FEET AND SHALL BE STAGGERED TO THE LEFT, RIGHT, AND AT CENTER LINE OF THE ROADWAY. FOR SITE PLANS, TEST SHALL BE PERFORMED FOR EVERY 600 SQUARE YARDS OF STABILIZED AREA, OR PORTIONS THEREOF.
9. BASES FOR ALL STREETS SHALL HAVE A MINIMUM SIX INCH (6") DEPTH. SOIL CEMENT BASES SHALL HAVE A STRENGTH OF 350 POUNDS PER SQUARE INCH AT 7 DAYS COMPACTED TO 98% DENSITY PER AASHTO T-99 STANDARD PROCTOR TEST IN CONFORMANCE WITH SECTION 270 OF STANDARD F.D.O.T. SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION). RECYCLED CONCRETE OR LIMEROCK BASES SHALL BE COMPACTED TO 98% MAXIMUM DENSITY BASED ON AASHTO T-180 MODIFIED PROCTOR TEST.
9. ROADWAY DEFINITIONS
   a. ARTERIALS: PROVIDE REGIONAL MOBILITY VIA BOTH UNINTERRUPTED FLOW AND INTERRUPTED FLOW SEGMENTS. ARTERIALS PROVIDE MOBILITY AROUND AND THROUGH URBAN AND COMMUNITY CORES, AND ACCOMMODATE RELATIVELY LONG TRIP LENGTHS AS OPPOSED TO PROVIDING ACCESS TO ADJACENT PROPERTIES. ARTERIAL ROADS ARE U.S. #1 AND S.R. #442.
   b. COLLECTORS: PROVIDE FOR MOVEMENT BETWEEN LOCAL STREETS AND THE ARTERIAL NETWORK. COLLECTORS SERVE RESIDENTIAL, COMMERCIAL AND INDUSTRIAL AREAS.
   c. LOCAL ROADS: PROVIDE DIRECT ACCESS TO ABUTTING PROPERTIES. LOCAL ROADS ACCOMMODATE TRAFFIC ORIGINATING IN OR TRAVELING TO PROPERTIES WITHIN A NEIGHBORHOOD, COMMERCIAL OR INDUSTRIAL DEVELOPMENT. LOCAL ROADS ARE NOT CONSIDERED PART OF THE MAJOR THOROUGHFARE SYSTEM.

EDGEWATER	STANDARD CONSTRUCTION DETAIL ROADWAY AND PARKING AREA DESIGN AND CONSTRUCTION NOTES	FILE NAME: EW_R12.DWG DETAIL REF: R-12

ROADWAY AND PARKING AREA DESIGN AND CONSTRUCTION NOTES (CONTD.)

10. SOIL CEMENT AND RECYCLED CONCRETE MIX DESIGNS SHALL BE SUBMITTED BY A LICENSED SOILS ENGINEER TO THE CITY'S DESIGNATED SITE INSPECTOR PRIOR TO THE START OF SUBBASE PREPARATION. ALL MIX DESIGNS SHALL BE SUBJECT TO THE APPROVAL OF THE CITY.
11. CEMENT DELIVERY TICKETS SHALL BE PROVIDED TO THE CITY'S DESIGNATED SITE INSPECTOR AT THE TIME OF PLACEMENT. IF THE INSPECTOR IS NOT ON SITE THROUGHOUT THE ENTIRE INSTALLATION, ACCUMULATED DELIVERY TICKETS CAN BE PROVIDED TO THE INSPECTOR BY THE CONTRACTOR ON THE FOLLOWING DAY.
12. TESTING OF THE IN-PLACE BASE SHALL BE DONE AT INTERVALS EQUIVALENT TO SUBGRADE TESTING AND SHALL CONSIST OF, AS A MINIMUM, A MOISTURE CONTENT AND COMPACTION TEST.
13. PORTLAND CEMENT CONCRETE, LIMEROCK, RECYCLED CONCRETE, OR FULL DEPTH ASPHALT PAVEMENT MAY BE USED IN PLACE OF SOIL CEMENT BASE. ALL BASE AND ROADWAY DESIGNS SHALL BE SUBJECT TO THE APPROVAL OF THE CITY.
14. SOIL CEMENT BASE MATERIAL CONSTRUCTION SHALL BE CONTINUOUSLY SUPERVISED BY A SOILS TESTING LABORATORY AT THE DEVELOPER'S EXPENSE. THE TESTING LABORATORY SHALL PROVIDE AN ON-SITE TECHNICIAN CERTIFIED IN THE INSTALLATION OF SOIL CEMENT WITH THE CERTIFICATION RECOGNIZED BY F.D.O.T.
15. SOIL CEMENT PAVEMENT BASES WITH THE CURE COAT APPLIED SHALL BE ALLOWED TO CURE A MINIMUM OF SEVEN (7) DAYS UNDER NO TRAFFIC PRIOR TO PLACING ANY ASPHALT SURFACE. (TEST REPORTS ARE REQUIRED TO BE DELIVERED TO THE CITY'S DESIGNATED SITE INSPECTOR PRIOR TO TRAFFIC USAGE.)
16. RECYCLED CONCRETE CAN BE USED AS AN ALTERNATIVE BASE MATERIAL PROVIDED THE MATERIAL IS A MINIMUM OF 60% CARBONATE OF CALCIUM AND MAGNESIUM. THE MATERIAL SHALL BE LIMITED TO MAXIMUM OF 3% OF WATER SENSITIVE CLAY MATERIAL. LIQUID LIMIT SHALL NOT EXCEED 35 AND BE NON-PLASTIC, AND THE PLASTICITY INDEX SHALL NOT EXCEED 10. THE MATERIAL SHALL NOT CONTAIN ORGANIC MATERIAL, CHERTY OR OTHER EXTREMELY HARD PIECES, LUMPS, BALLS OR POCKETS OF SAND SIZE MATERIAL OF A QUANTITY AS TO BE DETRIMENTAL TO THE PROPER BONDING, FINISHING, OR STRENGTH OF THE RECYCLED CONCRETE BASE. FOR BASE APPLICATIONS, AT LEAST 97 % (BY WEIGHT) OF THE MATERIAL SHALL PASS A 1" SIEVE AND FOR SUBBASE APPLICATIONS, AT LEAST 97 % (BY WEIGHT) OF THE MATERIAL SHALL PASS A 1-1/2" SIEVE. FOR BOTH APPLICATIONS, THE MATERIAL SHALL BE GRADED UNIFORMLY DOWN TO DUST AND THE MINIMUM LBR VALUES ARE TO BE NOT LESS THAN 130. COARSE AGGREGATE USED IN THE RECYCLED CONCRETE SHALL HAVE A MAXIMUM LOSS OF 45 % PER LOS ANGELES ABRASION TEST. ALL MATERIALS SHALL BE WELL GRADED IN ACCORDANCE WITH REQUIREMENTS SET FORTH IN SECTION 204, F.D.O.T., STANDARD SPEC. FOR ROAD AND BRIDGE CONSTRUCTION,, (LATEST EDITION).
17. RECYCLED CONCRETE OR LIMEROCK FOR BASE OR SUBBASE APPLICATIONS SHALL BE ALLOWED ON CITY ROADWAYS ONLY WHERE THE LOWEST ELEVATION OF THE ROADWAY SUBBASE IS A MINIMUM OF 6" ABOVE THE SEASONAL HIGH GROUNDWATER TABLE AS CERTIFIED BY A FLORIDA LICENSED PROFESSIONAL SOILS ENGINEER AND SUBSEQUENTLY APPROVED FOR BY THE CITY. IN AREAS NOT MEETING THESE STANDARDS A SOIL CEMENT BASE WILL BE REQUIRED. ALL CRUSHING OF RECYCLED CONCRETE SHALL BE DONE PRIOR TO THE MATERIAL BEING PLACED IN THE ROADWAY. TESTING SHALL HAVE THE SAME REQUIREMENTS AND BE PERFORMED AT THE SAME LOCATION AND INTERVALS AS REQUIRED FOR LIMEROCK.

EDGEWATER	STANDARD CONSTRUCTION DETAIL ROADWAY AND PARKING AREA DESIGN AND CONSTRUCTION NOTES	FILE NAME: EW_R13.DWG DETAIL REF: R-13

ROADWAY AND PARKING AREA DESIGN AND CONSTRUCTION NOTES (CONTD.)

18. DESIGN MIXES AND PRODUCT GRADATION INFORMATION FOR ALL MATERIALS TO BE INSTALLED AS PART OF THE LAND DEVELOPMENT CODE REQUIRED IMPROVEMENTS SHALL BE SUBMITTED TO THE CITY'S DESIGNATED SITE INSPECTOR FOR ACCEPTANCE BY THE CITY. THE INFORMATION SHALL BE SUBMITTED NO LESS THAN THREE (3) WORKING DAYS PRIOR TO ANY CONSTRUCTION. SUBMITTALS SHALL INCLUDE, BUT NOT BE LIMITED TO, INFORMATION TO JUNLUATE THE MATERIALS PROPOSED FOR INSTALLATION AS SUBBASE, BASE, AND PAVEMENT FOR ALL ROADWAY AND PARKING AREA SURFACES AS WELL AS SIMILAR INFORMATION FOR ALL OTHER CONCRETE SIDEWALKS, CURBING, AND COMPARABLE STRUCTURES AND APPLICATIONS.
19. PRIOR TO PLACEMENT FLORIDA STATE CERTIFIED BATCH PLANTS MUST CERTIFY TO THE CITY'S RESIDENT PROJECT INSPECTOR THAT THE ASPHALT DELIVERED TO THE SITE IS IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS.
20. EXTRACTION AND GRADATION TESTS ON ASPHALT MIXES SHALL BE PROVIDED TO THE CITY'S DESIGNATED SITE INSPECTOR FOR EVERY 2500 SQUARE YARDS OF ASPHALT, OR PART THEREOF, TO ENSURE THAT DESIGN MIXES MEET THE CITY STANDARD SPECIFICATIONS.
21. FIELD TESTING OF THE ASPHALT PAVEMENT SHALL BE DONE AT INTERVALS EQUIVALENT TO SUBGRADE TESTING AND SHALL CONSIST OF, AS A MINIMUM, A COMPACTION TEST. ASPHALT PAVEMENT SHALL BE COMPACTED TO 98% DENSITY PER FM 1-T238 (METHOD B), NUCLEAR DENSITY TEST, "BACKSCATTER METHOD".
22. IN ADDITION TO THE FIELD DENSITY TESTS NOTED, THE CITY RESERVES THE RIGHT TO REQUIRE CORE SAMPLES OF PAVEMENT SECTIONS EXTRACTED AND TESTED BY A CERTIFIED SOILS ENGINEERING LABORATORY AT THE DEVELOPER'S EXPENSE. THE CITY'S DESIGNATED SITE INSPECTOR SHALL DESIGNATE THE LOCATIONS OF THE TEST CORE LOCATIONS.
23. THE ROADWAY CROWN SHALL HAVE A STANDARD ONE QUARTER INCH (1/4") PER FOOT SLOPE.
24. ALL ROADWAYS WITH CURB AND GUTTER SECTIONS SHALL HAVE AS A STANDARD A MINIMUM LONGITUDINAL SLOPE OF 0.30%. THE ROADWAY CENTERLINE SHALL BE CLEARLY MARKED ON THE DESIGN PLANS. AT A MINIMUM, DESIGN ROADWAY CENTERLINE ELEVATIONS SHALL BE NOTED AT ALL GRADE CHANGES AND AT 100' INTERVALS ALONG THE ROADWAY PROFILE ON BOTH THE DESIGN PLANS AND AS-BUILT DRAWINGS.
25. THE FINISHED PAVEMENT EDGE SHALL BE WITHIN ONE QUARTER INCH (1/4") ABOVE THE ADJACENT CONCRETE CURB FOR CURBS COLLECTING AND CONVEYING STORMWATER.
26. CONCRETE CURBS SHALL BE PROVIDED ON BOTH SIDES OF ALL STREETS AND ALL CONCRETE CURBS SHALL BE CONSTRUCTED WITH 3000 P.S.I. CONCRETE AT 28 DAYS.

EDGEWATER	STANDARD CONSTRUCTION DETAIL ROADWAY AND PARKING AREA DESIGN AND CONSTRUCTION NOTES	FILE NAME: EW_R14.DWG DETAIL REF: R-14

ROADWAY AND PARKING AREA DESIGN AND CONSTRUCTION NOTES (CONTD.)

27. CONCRETE CURBING, SIDEWALKS, PAVEMENT AND SIMILAR CONCRETE AREAS SHALL BE SAW CUT WITHIN 4 TO 18 HOURS OF PLACEMENT. SAW CUTS SHALL BE 1/4" IN WIDTH TO A DEPTH OF 1/4 OF THE TOTAL DEPTH OF CONCRETE OR 1-1/2", WHICHEVER IS LESS. SAW CUTS SHALL BE LOCATED AT INTERVALS OF TEN FEET (10') WITH EXPANSION JOINTS AT STREET INTERSECTIONS, RADIUS POINTS, STRUCTURES, AND ALONG CURVES AT SIXTY FEET (60') INTERVALS. ALL EXPANSION JOINT MATERIAL IS REQUIRED TO BE INSTALLED THROUGH THE ENTIRE DEPTH OF THE CONCRETE CURB. FOR LINEAL SECTIONS OF CURBS, EXPANSION JOINTS SHALL BE LOCATED AT A MAXIMUM SPACING OF FIVE-HUNDRED FEET (500') AND SHALL BE 1/2" IN WIDTH.
28. AN "X" SHALL BE CUT IN THE CURB TO MARK THE LOCATION OF WATER DISTRIBUTION SYSTEM VALVE.
29. A "V" SHALL BE CUT IN THE CURB TO MARK THE LOCATION OF ALL SEWER SERVICES.
30. A "L" SHALL BE CUT IN THE CURB TO MARK THE LOCATION OF ALL RECLAIMED WATER SERVICES.
31. A " A" SHALL BE CUT IN THE CURB TO MARK THE LOCATION OF ALL POTABLE WATER SERVICES.
32. BLUE REFLECTORS SHALL BE PLACED IN THE MIDDLE OF THE DRIVING LANE ON THE SIDE OF THE ROADWAY AND IN FRONT OF WHERE FIRE HYDRANTS ARE LOCATED.
33. THREE (3) CONCRETE CYLINDERS SHALL BE TAKEN AND TESTED (1 IN 14 DAYS AND 1 IN 28 DAYS) FOR EVERY SEVENTY-FIVE (75) CUBIC YARDS OF CONCRETE OR LESS PLACED. TEST RESULTS SHALL THEN BE PROVIDED TO THE CITY'S DESIGNATED SITE INSPECTOR AS THEY BECOME AVAILABLE.
34. A CONCRETE SLUMP TEST SHALL BE REQUIRED WITHIN THE FIRST 30 CUBIC YARDS OF CONCRETE. THEREAFTER, SLUMP TESTS SHALL BE REQUIRED FOR EVERY THIRTY (30) CUBIC YARDS OF CONCRETE, OR FRACTION THEREOF, WITH COPIES OF THE RESULTS PROVIDED TO THE CITY'S DESIGNATED SITE INSPECTOR. THE SLUMP TEST SHALL MEET THE REQUIRED MIX DESIGN ON EACH LOAD DELIVERED.
35. THE DEVELOPER SHALL PROVIDE ALL REQUIRED PAVEMENT MARKINGS ON ALL ROADWAYS PER CITY, COUNTY, AND STATE REQUIREMENTS. CENTERLINE STRIPES SHALL BE PROVIDED ON EXTENSIONS OF CITY COLLECTOR OR ARTERIAL ROADS, COUNTY ROADS, STATE HIGHWAYS, AND ALONG LOCAL STREETS IN THE VICINITY OF THEIR INTERSECTION WITH THE ABOVE MENTIONED ROADWAYS.
36. A FDOT APPROVED STOP SIGN AND A 24"-WIDE WHITE THERMOPLASTIC STOP BAR ARE REQUIRED AT ALL ROADWAY INTERSECTIONS.
37. ALL TRAFFIC CONTROL DEVICES PLACED AT INTERSECTIONS, PRIVATE STREETS, PUBLIC STREETS, COUNTY ROADS, AND STATE HIGHWAYS WITHIN THE CITY LIMITS SHALL BE INSTALLED ACCORDING TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION. THE MAINTENANCE-OF-TRAFFIC (MOT) INSTALLATION AND SUBSEQUENT OPERATION SHALL BE OVERSEEN BY A CONTRACTOR CERTIFIED BY THE AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION, OR EQUIVALENT CERTIFICATION RECOGNIZED BY FDOT.

EDGEWATER	STANDARD CONSTRUCTION DETAIL ROADWAY AND PARKING AREA DESIGN AND CONSTRUCTION NOTES	FILE NAME: EW_R15.DWG DETAIL REF: R-15

ROADWAY AND PARKING AREA DESIGN AND CONSTRUCTION NOTES (CONTD.)

38. THE DEVELOPER IS RESPONSIBLE FOR PAYING FEES FOR TRAFFIC CONTROL DEVICES TO THE CITY FOR INSTALLATION. STREET SIGNS AND STOP SIGNS SHALL BE PLACED AT ALL INTERSECTIONS, INCLUDING BUT NOT LIMITED TO PRIVATE STREETS, PUBLIC STREETS, COUNTY ROADS, AND STATE HIGHWAYS WITHIN THE CITY LIMITS.
39. THE DEVELOPER IS RESPONSIBLE FOR PAYING FEES FOR ALL STREET LIGHTS PRIOR TO ACCEPTANCE OF THE PROJECT BY THE CITY.
40. FOUR FOOT (4') WIDE SIDEWALKS SHALL BE PROVIDED ON BOTH SIDES OF ALL RESIDENTIAL STREETS. (SEE DETAIL, INDEXES M-2 AND M-3)
41. BIKE PATHS SHALL BE CONSTRUCTED AT A MINIMUM OF SIX-FOOT WIDTH, PREFERABLY EIGHT-FOOT WIDTH AS DIRECTED BY THE CITY IN ACCORDANCE WITH THE BICYCLE AND PEDESTRIAN TRAIL MASTER PLAN.
42. STANDARD TURNING RADII FOR INTERSECTIONS:

RESIDENTIAL STREETS WITH STATE & COUNTY ROADWAYS OR MAJOR THOROUGHFARES WITHIN THE CITY	35-50 FT.
ENTRANCES TO COMMERCIAL SITES OFF OF CITY STREETS	35 FT.
INTERSECTIONS INTERIOR IN SUBDIVISIONS	35 FT.

SHOULD VOLUSIA COUNTY OR THE FLORIDA DEPARTMENT OF TRANSPORTATION (F.D.O.T.) DETERMINE THAT LARGER RADII ARE WARRANTED WITHIN THEIR RIGHT-OF-WAY, THE LARGER RADII SHALL PREVAIL.

43. CONSTRUCTION METHODS AND DESIGN FOR CONCRETE PAVEMENT SHALL CONFORM TO FDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
44. ALL CONTRACTORS THAT ARE PERFORMING THE CONSTRUCTION OF LAND DEVELOPMENT CODE REQUIRED IMPROVEMENTS (INCLUDING WATER MAINS, SANITARY SEWER MAINS, RECLAIMED WATER MAINS, STORM WATER PIPES AND INLETS, ROADWAYS, AND PARKING FACILITIES) SHALL BE CERTIFIED WITH THE STATE OF FLORIDA BOARD OF PROFESSIONAL REGULATIONS (BPR) FOR THE TYPE OF WORK THAT THEY PERFORM.
45. ALL CONTRACTORS THAT ARE PERFORMING THE CONSTRUCTION WORK OF LAND DEVELOPMENT CODE REQUIRED IMPROVEMENTS SHALL BE LICENSED BY THE STATE OF FLORIDA AND REGISTERED WITH THE CITY. THE LICENSE AND REGISTRATION SHALL PERTAIN DIRECTLY TO THE TYPE OF WORK BEING PERFORMED.
46. EXCEPT AS PROVIDED IN THE LAND DEVELOPMENT CODE, ALL ELECTRIC, TELEPHONE, TELEVISION LINES AND SIMILAR UTILITIES ARE REQUIRED TO BE INSTALLED UNDERGROUND AT THE EXPENSE OF THE OWNER, DEVELOPER, AND BUILDER.

EDGEWATER	STANDARD CONSTRUCTION DETAIL ROADWAY AND PARKING AREA DESIGN AND CONSTRUCTION NOTES	FILE NAME: EW_R16.DWG DETAIL REF: R-16

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CONSTRUCTION PLAN REVISIONS

1	03/29/24	REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
2	04/26/24	REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
3	06/19/24	REVISED PER CITY OF EDGEWATER COMMENTS
4	07/15/24	REVISED PER CITY OF EDGEWATER COMMENTS

YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

CONSTRUCTION DETAILS

Engineering Business Certificate of Authorization No. 32771
Florida Certificate of Authorization No. LC26000638

BRANDON D. MACHIELA
LICENSE NO. 90686
STATE OF FLORIDA
PROFESSIONAL ENGINEER

BRANDON D. MACHIELA
FLORIDA LICENSED PROFESSIONAL ENGINEER
REGISTRATION NUMBER 90686

PROJECT No. 199-01-01

SHEET C 10.0

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ROADWAY AND PARKING AREA DESIGN AND CONSTRUCTION NOTES (CONTD.)

47. UTILITY DEPTH:
    - A. HIGH VOLTAGE UTILITIES SUCH AS POWER (FEEDER, SERVICE, AND DROPS) SHALL BE BURIED A MINIMUM OF 30 INCHES IN DEPTH.
    - B. LOW VOLTAGE UTILITIES SUCH AS PHONE AND CABLE TV SHALL BE BURIED A MINIMUM OF 24 INCHES IN DEPTH FOR FEEDER AND SERVICES. SERVICE DROPS SHALL BE BURIED A MINIMUM OF 18 INCHES IN DEPTH.
    - C. IN NO INSTANCE SHALL THE DEPTH OF COVER BE LESS THAN 30" FROM FINISHED GRADE TO THE TOP OF PIPE FOR POTABLE WATER MAINS, SANITARY SEWER MAINS, AND RECLAIMED WATER MAINS. HOWEVER, IN THE EVENT THAT THIS CONDITION CANNOT BE MET DUE TO UNANTICIPATED CONFLICTS DURING THE CONSTRUCTION PROCESS, DUCTILE IRON PRESSURE CLASS 350 OR CONCRETE ENCASEMENT MAY BE USED AS APPROVED BY THE CITY PUBLIC UTILITIES DEPARTMENT.
48. LANDSCAPE PLANS SHALL CLEARLY DEPICT THE DESIGN LOCATION OF PLANTINGS RELATIVE TO THE LOCATION OF UNDERGROUND AND OVERHEAD PUBLIC UTILITIES AND STORMWATER INFRASTRUCTURE IN ORDER TO EVALUATE POTENTIAL CONFLICTS.

STANDARD CONSTRUCTION DETAIL ROADWAY AND PARKING AREA DESIGN AND CONSTRUCTION NOTES	FILE NAME: EW_R17.DWG DETAIL REF: R-17

TECHNICAL SPECIFICATIONS FOR SITE PLANS AND SUBDIVISIONS TESTING

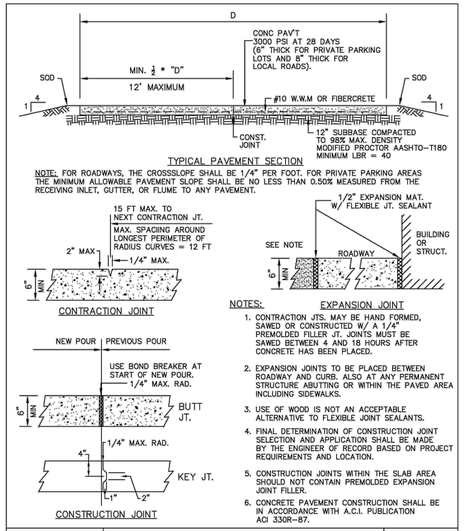
A. MATERIALS

THE INSPECTION AND TESTING OF MATERIALS AND FINISHED ARTICLES TO BE INCORPORATED IN THE WORK SHALL BE MADE BY BUREAUS, LABORATORIES, OR AGENCIES APPROVED BY THE ENGINEER OF RECORD. THE CONTRACTOR SHALL SUBMIT SUCH SAMPLES, OR SUCH SPECIAL OR TEST PIECES OF MATERIALS AS THE ENGINEER OF RECORD MAY REQUIRE. THE CONTRACTOR SHALL NOT INCORPORATE ANY MATERIAL OR FINISHED ARTICLE INTO THE WORK UNTIL THE RESULTS OF THE INSPECTIONS OR TESTS ARE KNOWN AND THE CONTRACTOR HAS BEEN NOTIFIED BY THE ENGINEER OF RECORD THAT THE MATERIAL OR FINISHED ARTICLE IS ACCEPTED. ALL MATERIALS MUST BE OF THE SPECIFIED QUALITY AND BE EQUAL TO THE APPROVED SAMPLE IF A SAMPLE HAS BEEN SUBMITTED. CERTIFIED COPIES OF ALL TESTS MADE SHALL BE SUBMITTED TO THE ENGINEER OF RECORD AS WELL AS TO THE CITY'S DESIGNATED SITE INSPECTOR. THE CITY'S DESIGNATED SITE INSPECTOR MUST RECEIVE COPIES OF ALL TESTING REPORTS AND CERTIFICATES PRIOR TO THE ENGINEER OF RECORD REQUESTING A FINAL PROJECT INSPECTION FROM THE CITY.

B. LABORATORY CONTROL AND CERTIFICATES

1. SPECIFICATIONS . SAMPLING, TESTING, AND LABORATORY METHODS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE AASHTO OR ASTM. WHERE AASHTO OR ASTM SPECIFICATIONS ARE USED, THE REFERENCE SHALL BE CONSTRUED TO BE THE MOST RECENT STANDARD SPECIFICATIONS OR TENTATIVE SPECIFICATIONS OF THE AASHTO OR ASTM IN FORCE ON THE DATE OF THE TEST.
2. TEST & CERTIFICATES. THE CONTRACTOR SHALL ENGAGE AN APPROVED TESTING LABORATORY TO PROVIDE THE FOLLOWING TESTS AND CERTIFICATIONS SIGNED BY A REGISTERED ENGINEER OF THE STATE OF FLORIDA. ALL TECHNICIANS PERFORMING THE TESTS SHALL BE STATE CERTIFIED FOR THE TESTING PERFORMED. ADDITIONAL TESTS THAT MAY BE REQUIRED BY EITHER THE ENGINEER OF RECORD OR THE CITY SHALL ALSO BE PROVIDED BY THE CONTRACTOR, AND THE FOLLOWING SHALL NOT BE TAKEN AS A COMPLETE AND EXHAUSTIVE LIST OF THE CONTRACTOR'S TESTING RESPONSIBILITIES.
    - A. SOIL ANALYSIS FOR STRUCTURAL FILL MATERIAL PRIOR TO INSTALLATION.
    - B. PROCTOR DENSITIES, MOISTURE CONTENT, COMPACTED FIELD DENSITIES, AND ATTERBERG LIMITS.
    - C. SOIL CEMENT MIX DESIGNS AND COMPRESSIVE STRENGTH TESTS (FOR SOIL CEMENT ROAD BASE ONLY).
    - D. SUPERVISION OF ALL SOIL CEMENT BASE CONSTRUCTION.
    - E. ANALYSIS OF RECYCLED CONCRETE BASE MATERIAL PRIOR TO INSTALLATION.
    - F. ASPHALT MIX DESIGN, BITUMEN CONTENT, SIEVE ANALYSIS, HUBBARD FIELD STABILITY TESTS, NUCLEAR DENSITY TESTS (BACKSCATTER METHOD), AND ANALYSIS OF CORE SAMPLES.
    - G. CONCRETE MIX DESIGNS FOR ALL APPLICATIONS INCLUDING PAVEMENT, CAST-IN-PLACE STRUCTURES, CURBING, GUTTERS, SIDEWALKS, BIKE PATHS, APRONS AND DRIVEWAYS.
    - H. COMPRESSIVE TEST CYLINDERS AND SLUMP TESTS FOR ALL APPLICATIONS OF CONCRETE, INCLUDING PAVEMENT, CAST-IN-PLACE STRUCTURES, CURBING, GUTTERS, SIDEWALKS, BIKE PATHS, APRONS, AND DRIVEWAYS.
    - I. CHLORINE RESIDUAL AND BACTERIOLOGICAL TESTING OF WATER MAINS.
    - J. PRESSURIZED LEAK TESTING OF WATER MAINS, FORCE MAINS, AND RECLAIMED WATER MAINS.

STANDARD CONSTRUCTION DETAIL TECHNICAL SPECIFICATIONS FOR SITE PLANS AND SUBDIVISIONS TESTING	FILE NAME: EW_R18.DWG DETAIL REF: R-18



TYPICAL PAVEMENT SECTION

NOTE: FOR ROADWAYS, THE CROSSSLOPE SHALL BE 1/4" PER FOOT. FOR PRIVATE PARKING AREAS THE MINIMUM ALLOWABLE PAVEMENT SLOPE SHALL BE NO LESS THAN 0.50% MEASURED FROM THE RECEIVING INLET, GUTTER, OR FLUME TO ANY PAVEMENT.

CONTRACTION JOINT

EXPANSION JOINT

CONSTRUCTION JOINT

NOTES:

1. CONTRACTION JTS. MAY BE HAND FORMED, SAWED OR CONSTRUCTED W/ A 1/4" PREMOLDED FILLER JT. JOINTS MUST BE SAWED BETWEEN 4 AND 18 HOURS AFTER CONCRETE HAS BEEN PLACED.
2. EXPANSION JOINTS TO BE PLACED BETWEEN ROADWAY AND CURB. ALSO AT ANY PERMANENT STRUCTURE ABUTTING OR WITHIN THE PAVED AREA INCLUDING SIDEWALKS.
3. USE OF WOOD IS NOT AN ACCEPTABLE ALTERNATIVE TO FLEXIBLE JOINT SEALANTS.
4. FINAL DETERMINATION OF CONSTRUCTION JOINT SELECTION AND APPLICATION SHALL BE MADE BY THE ENGINEER OF RECORD BASED ON PROJECT REQUIREMENTS AND LOCATION.
5. CONSTRUCTION JOINTS WITHIN THE SLAB AREA SHOULD NOT CONTAIN PREMOLDED EXPANSION JOINT FILLER.
6. CONCRETE PAVEMENT CONSTRUCTION SHALL BE IN ACCORDANCE WITH A.C.I. PUBLICATION ACI 330R-87.

STANDARD CONSTRUCTION DETAIL CONCRETE PAVEMENT DETAILS	FILE NAME: EW_R19.DWG DETAIL REF: R-19

SUBDIVISION TECHNICAL SPECIFICATIONS: SODDING, SEEDING AND MULCHING

A. SCOPE OF WORK THE WORK IN THIS SECTION CONSISTS OF FURNISHING AND COMPLETELY INSTALLING SOD, OR SEED AND MULCH OVER THE LIMITS CALLED FOR ON THE CONSTRUCTION DRAWINGS. AT A MINIMUM, ALL WORK SHALL MEET THE MINIMUM SPECIFICATIONS OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, AS OUTLINED IN SECTIONS 570 (GRASSING BY SEEDING) AND 575 (SODDING). IN ADDITION, ALL WORK SHALL MEET THE MINIMUM REQUIREMENTS OF THE CITY.

B. MATERIALS GRASS SEED SHALL BE A MIXTURE OF:

PENSACOLA BAHIA	50%
(USE 50 % SCARIFIED SEED)	
HULLED BERMUDA	25%
BROWN TOP MILLET	25%

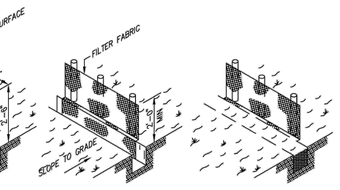
IN THE FALL AND WINTER MONTHS, AND WITH THE APPROVAL OF THE CITY, ANNUAL RYE GRASS SHALL BE SUBSTITUTED IN EQUAL AMOUNTS FOR THE BROWN TOP MILLET. SEED SHALL BE PRE-MIXED BY A SEED COMPANY TO THE PERCENTAGES DESCRIBED ABOVE, WITH CERTIFICATION FROM THE SUPPLIER PROVIDED TO THE CITY'S DESIGNATED PROJECT LANDSCAPE INSPECTOR PRIOR TO USE.

MULCH USED SHALL BE STRAW OR HAY CONSISTING OF OATS, RYE, OR WHEAT STRAW, OR OF PANGOLA, PEANUT, COASTAL BERMUDA, OR BAHIA GRASS HAY. MULCH SHALL BE FREE FROM UNDESIRABLE WEED AND OTHER UNDESIRABLE GRASS.

C. METHODS. GRASSING SHALL BE DONE IMMEDIATELY UPON COMPLETION OF THE FINE GRADING OPERATION. HOWEVER, NO SEEDING SHALL BE DONE WHEN THE GROUND IS FROZEN OR UNDULY WET. THE RATE OF SPREAD FOR THE SEED MATERIAL SHALL BE ONE HUNDRED AND THIRTY (130) POUNDS PER ACRE.

APPROXIMATELY ONE INCH (1"), LOOSE THICKNESS, OF MULCH MATERIAL SHALL BE APPLIED UNIFORMLY OVER THE SEEDED AREAS (APPROXIMATELY ONE AND ONE-HALF (1-1/2) BALES PER 1000 SQUARE FEET). THE MULCH MATERIAL SHALL BE CUT INTO THE SOIL WITH A DISC HARROW OR OTHERWISE ANCHORED DOWN. UNDER PROPER CIRCUMSTANCES, CONTRACTOR MAY REQUEST OPTION TO INSTALL HYDRO-SEEDING SUBJECT TO THE APPROVAL OF THE PROJECT LANDSCAPE ARCHITECT AND THE CITY

STANDARD CONSTRUCTION DETAIL SUBDIVISION TECHNICAL SPECIFICATIONS: SODDING, SEEDING AND MULCHING	FILE NAME: EW_R20.DWG DETAIL REF: R-20

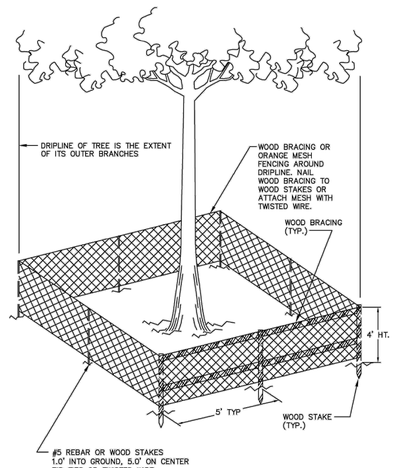


SILT FENCE DETAIL
F.D.O.T. INDEX NO. 102

NOTES:

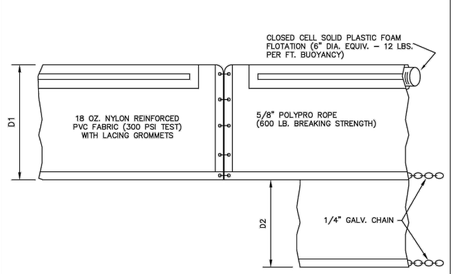
1. MATERIALS, CONSTRUCTION METHODS AND MAINTENANCE SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND DESIGN STANDARDS CURRENT EDITION.
2. CONTRACTOR SHALL PROVIDE SILT FENCES AND HAY BALES AT ALL STORMWATER DISCHARGE POINTS FOR EROSION CONTROL AND SEDIMENT CONTROL DURING CONST.
3. CONTRACTOR SHALL ROUGH GRADE STORM-WATER SWALES AND RETENTION AREAS PRIOR TO CONSTRUCTION OF SITE IMPROVEMENTS.
4. CONTRACTOR SHALL MEET ALL PERMIT CONDITIONS AS ESTABLISHED BY THE CITY AND ALL OTHER APPLICABLE AGENCIES, INCLUDING BUT NOT LIMITED TO COUNTY, FDOT, AND THE SJRWMD.

STANDARD CONSTRUCTION DETAIL SILT FENCE TURBIDITY BARRIER	FILE NAME: EW_R22.DWG DETAIL REF: R-22



NOTE: BARBED WIRE FENCING IS NOT PERMISSIBLE

STANDARD CONSTRUCTION DETAIL TREE PROTECTION BARRICADE	FILE NAME: EW_R23.DWG DETAIL REF: R-23



FLOATING TURBIDITY BARRIER
F.D.O.T. INDEX NO. 103

D1 - 5 FT. STD. SINGLE PANEL FOR DEPTHS 5 FT. OR LESS

D2 - 5 FT. STD. ADDITIONAL PANEL FOR DEPTHS GREATER THAN 5 FT.

CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FT.
TWO PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FT.

STANDARD CONSTRUCTION DETAIL FLOATING TURBIDITY BARRIER	FILE NAME: EW_R24.DWG DETAIL REF: R-24

CONTRACTOR REQUIREMENTS FOR SITE CLEARING, GRADING, AND EROSION CONTROL DESIGN AND CONSTRUCTION NOTES

THE FOLLOWING MEASURES REPRESENT MINIMUM STANDARDS TO BE ADHERED TO BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION OF A PROJECT. THE CITY RESERVES THE RIGHT TO REQUIRE ADDITIONAL MEASURES TO BE EMPLOYED WHEN WARRANTED BY EXTREME CONDITIONS AND/OR THE FAILURE OF THE CONTRACTOR TO EMPLOY THE APPROPRIATE EROSION CONTROL BEST MANAGEMENT PRACTICES. FAILURE TO COMPLY WITH THESE PROVISIONS SHALL RESULT IN THE ISSUANCE OF A "STOP WORK ORDER".

1. NO DISTURBANCE OF PROPOSED CONSERVATION EASEMENTS, NATURAL BUFFERS, OR WATER BODIES IS PERMITTED. THE CONTRACTOR SHALL LOCATE THESE AREAS ON SITE AND BARRICADE THEM TO AVOID ANY UNAUTHORIZED CLEARING. BARRICADES AND OTHER PROTECTIVE FENCING ARE TO BE LOCATED AT THE DRIP LINE OF EXISTING NATIVE TREES OR AT THE EDGE OF THE NATIVE UNDER-STORY HABITAT, WHICHEVER IS NEAREST TO THE CONSTRUCTION ACTIVITY.
2. SPECIMEN AND HISTORIC TREES, CONSERVATION EASEMENTS, NATURAL VEGETATION BUFFERS, AND SIMILAR AREAS MUST BE PROTECTED BY BARRICADES OR FENCING PRIOR TO CLEARING. BARRICADES ARE TO BE SET AT THE DRIP LINE OF THE TREES AND MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT. BARBED WIRE IS NOT PERMITTED AS A PROTECTIVE BARRIER.
3. WHERE A CHANGE OF GRADE OCCURS AT THE DRIP LINE OF A SPECIMEN TREE, SILT FENCES WILL BE REQUIRED DURING CONSTRUCTION AND RETAINING WALLS MUST BE INSTALLED PRIOR TO FINAL ACCEPTANCE BY THE CITY.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL PROTECTIVE VEGETATION BARRICADES AND EROSION CONTROL STRUCTURES AND MEASURES IN PLACE PRIOR TO THE COMMENCEMENT OF ANY EARTHWORK, INCLUDING PRELIMINARY GRUBBING. THESE MEASURES INCLUDE, BUT ARE NOT LIMITED TO, TEMPORARY CONSTRUCTION FENCES, HAY BALES, SILT FENCES, AND FLOATING TURBIDITY BARRIERS. FURTHER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL EROSION CONTROL DEVICES THROUGHOUT THE DURATION OF THE ENTIRE PROJECT. MAINTENANCE SHALL INCLUDE PERIODIC INSPECTION AND REMOVAL OF DEBRIS ABUTTING EROSION CONTROL DEVICES.
5. PRIOR TO THE INSTALLATION OF ANY FILL MATERIALS ON SUBJECT SITE, SILT FENCES SHALL BE INSTALLED (1) ALONG SUBJECT SITE BOUNDARY AND PROPERTY LINES, (2) AT THE EDGE OF CONSERVATION EASEMENTS AND WETLANDS, (3) ADJACENT TO NATURAL LANDSCAPE BUFFERS, (4) AROUND THE PERIMETER OF EXISTING STORM WATER TREATMENT FACILITIES, AND (5) AT ANY ADDITIONAL AREAS THAT THE CITY DEEMS NECESSARY TO BE PROTECTED FROM POTENTIAL EROSION IMPACTS DURING CONSTRUCTION. THESE CONDITIONS SHALL APPLY IN ALL INSTANCES WHERE FILL MATERIAL IS BEING INSTALLED WITHIN 25 FEET OF ANY OF THE AFOREMENTIONED LOCATIONS. WHILE THESE ITEMS REPRESENT THE MINIMUM REQUIREMENTS, THE CITY RESERVES THE RIGHT TO IMPOSE ADDITIONAL PROTECTIVE MEASURES, AS DETERMINED DURING ACTUAL SITE VISITS CONDUCTED AS PART OF THE STANDARD REVIEW OF THE SITE-SPECIFIC CLEARING PERMIT APPLICATION AND THROUGHOUT PROJECT CONSTRUCTION.
6. WHERE FILL MATERIAL IS INTENDED TO BE INSTALLED ADJACENT TO EXISTING VEGETATION WHICH IS INTENDED TO REMAIN NATURAL, THE CONTRACTOR MAY INSTALL SILT FENCING AS A TREE PROTECTION MEASURE, IN LIEU OF INSTALLING EITHER WOOD BRACING OR ORANGE MESH FENCING. THIS PRACTICE IS ENCOURAGED BY THE CITY. IF THE SILT FENCE FAILS TO PROVIDE ADEQUATE PROTECTION FROM IMPACT DUE TO CONSTRUCTION, THEN ADDITIONAL CONSTRUCTION FENCING OR WOOD BRACING SHALL BE REQUIRED.
7. AT A MINIMUM, THE CONTRACTOR SHALL SEED AND MULCH ALL DISTURBED AREAS. SUFFICIENT GRASS COVERAGE IS TO BE ESTABLISHED WITHIN THIRTY DAYS. - DISTURBED AREAS IN CITY RIGHT-OF-WAYS OR CITY PROPERTY SHALL BE SODDED.
8. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR THROUGH SCHEDULING, TO MINIMIZE THE DISTURBANCE OF SITE AREAS THAT HAVE BEEN BROUGHT TO THEIR PROPOSED FINAL GRADE. WITHIN TWENTY DAYS OF BRINGING A SUBJECT AREA TO ITS FINAL GRADE, THE CONTRACTOR SHALL INSTALL SEED AND MULCH OR SOD, AS REQUIRED.

STANDARD CONSTRUCTION DETAIL CONTRACTOR REQUIREMENTS FOR SITE CLEARING, GRADING, AND EROSION CONTROL DESIGN AND CONSTRUCTION NOTES	FILE NAME: EW_R25.DWG DETAIL REF: R-25

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YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

CONSTRUCTION DETAILS

Engineering Business Certificate of Authorization No. 32771
Florida Certificate of Authorization No. LC26006638

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PROFESSIONAL ENGINEER

BRANDON D. MACHIELA
FLORIDA LICENSED PROFESSIONAL ENGINEER
REGISTRATION NUMBER 90686

PROJECT No.	199-01-01
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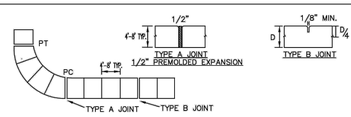
CONTRACTOR REQUIREMENTS FOR SITE CLEARING, GRADING, AND EROSION CONTROL DESIGN AND CONSTRUCTION NOTES (CONTD.)

9. FOR INDIVIDUAL CONSTRUCTION PROJECTS INVOLVING MULTIPLE PHASES, UPON COMPLETION OF EACH PHASE OF THE PROJECT, SEEDING AND MULCHING AND OR/ SODDING IS TO BE PERFORMED PRIOR TO COMMENCING THE NEXT PHASE OF CONSTRUCTION.
10. ONCE AN AREA IS SEEDED OR SODDED, IT MUST BE MAINTAINED BY THE CONTRACTOR TO ALLOW THE GRASS TO BECOME ESTABLISHED.
11. ANY BURNING OF CLEARED MATERIALS MUST BE INSPECTED AND PERMITTED ON A DAILY BASIS. CONTACT THE CITY FIRE MARSHALL AT 424-2412 PRIOR TO EACH DAY OF DESIRED BURNING.
12. ABSOLUTELY NO BURYING OF CLEARED MATERIALS IS PERMITTED.
13. THE REMOVAL OF ALL VEGETATION AND TOPSOIL ON THE FUTURE ROADWAY, PARKING AND BUILDING LOT AREAS IS REQUIRED TO BE COMPLETED PRIOR TO THE PLACEMENT OF FILL ON THOSE AREAS. THE TOPSOIL MAY BE TEMPORARILY STOCKPILED AND USED AS TOPSOIL OVER OVER PROPOSED GREEN AREAS SUCH AS PLANT BEDS, SODDED AREAS, AND WHERE TREES ARE TO BE INSTALLED OR RELOCATED.
14. A SIGNED, DATED, AND SEALED LETTER FROM A SOILS ENGINEER OR THE ENGINEER OF RECORD CERTIFYING THAT THE AREAS TO BE FILLED HAVE BEEN STRIPPED OF ORGANIC MATERIALS, MUST BE SUBMITTED TO THE CITY PRIOR TO FILLING.
15. FILL MATERIAL IS TO BE PLACED IN ONE FOOT LIFTS AND COMPACTED TO THE APPROPRIATE DENSITY (98% FOR PAVED AREAS AND 95% FOR BUILDING PADS AND ALL OTHER AREAS AS PER AASHTO T-180).
16. DURING SUBDIVISION DEVELOPMENT WHEN FUTURE BUILDING LOTS ARE FILLED AS PART OF THE OVERALL SUBDIVISION IMPROVEMENTS, COMPACTION TEST REPORTS MUST BE PERFORMED ON THE BUILDING LOTS AT 300 FOOT INTERVALS. THESE TESTS ARE TO BE PERFORMED IN ONE-FOOT VERTICAL INCREMENTS. THE RESULTS OF THESE TESTS ARE TO BE SUBMITTED TO THE CITY UPON COMPLETION OF THE TESTS.
17. IF ANY MUCK MATERIAL IS DISCOVERED, IT SHALL BE REQUIRED TO BE REMOVED AND REPLACED WITH A SUITABLE MATERIAL THAT IS PROPERLY BACKFILLED, COMPACTED AND TESTED USING AASHTO T-180 MODIFIED PROCTOR METHOD.
18. STOCKPILING IS NOT GENERALLY PERMITTED BY THE CITY. WHEN ALLOWED, STOCKPILES SHALL NOT EXCEED SIX FEET IN HEIGHT MEASURED FROM THE ORIGINAL GRADE. AT A MINIMUM, STOCK PILES THAT WILL REMAIN IN PLACE IN EXCESS OF TWENTY DAYS SHOULD BE SEEDED AND MULCHED IMMEDIATELY UPON PLACEMENT OF THE FINAL LIFT.
19. SOILS ARE TO BE STABILIZED BY WATER OR OTHER MEANS DURING CONSTRUCTION. THIS IS INTENDED TO REDUCE SOIL EROSION AND THE IMPACT TO NEIGHBORING COMMUNITIES. ADEQUATE WATERING METHODS SHOULD BE EMPLOYED TO ALLOW DAILY COVERAGE OF THE ENTIRE LIMITS OF ALL AREAS THAT DO NOT HAVE AN ESTABLISHED VEGETATIVE COVER. METHODS TO BE EMPLOYED INCLUDE, BUT ARE NOT LIMITED TO, WATER TRUCKS, PERMANENT IRRIGATION SYSTEMS, TEMPORARY SPRINKLER SYSTEMS OPERATED BY PUMPING UNITS CONNECTED TO WET RETENTION PONDS, WATER CANNONS, TEMPORARY IRRIGATION SYSTEMS MOUNTED ATOP STOCKPILE AREAS, AND OTHER METHODS AS DEEMED NECESSARY BY THE CITY.
20. ALL FILL MATERIALS LOCATED BENEATH STRUCTURES AND PAVEMENT SHALL CONSIST OF CLEAN GRANULAR SAND FREE FROM ORGANICS AND SIMILAR MATERIAL THAT COULD DECOMPOSE.
21. ALL FILL TO BE PLACED IN LANDSCAPED AREAS SHALL HAVE A Ph RANGE BETWEEN 5.5 AND 7.5, BE ORGANIC IN NATURE, FREE OF ROCKS AND DEBRIS, OR MATCH NATIVE EXISTING SOILS.

STANDARD CONSTRUCTION DETAIL
CONTRACTOR REQUIREMENTS FOR SITE CLEARING, GRADING, AND EROSION CONTROL DESIGN AND CONSTRUCTION NOTES

FILE NAME: EW_R26.DWG
DETAIL REF: R-26

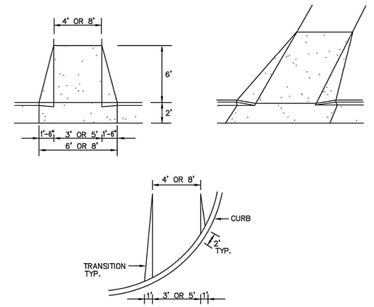


SIDEWALK CONSTRUCTION REQUIREMENTS

1. SIDEWALKS, BIKEPATHS, RAMPS, AND DRIVEWAY APRONS SHALL BE CONSTRUCTED OF PLAIN PORTLAND CEMENT CONCRETE WITH A MAXIMUM SLUMP OF 3 INCHES, A MINIMUM DEVELOPED COMPRESSIVE STRENGTH OF 2500 P.S.I. IN 28 DAYS, AND A MINIMUM UNIFORM THICKNESS OF 4 INCHES WHERE INTENDED SOLELY FOR PEDESTRIAN TRAFFIC, AND 6 INCHES THICK WHERE MOTOR VEHICLES ARE LIKELY TO CROSS.
2. SIDEWALKS AND BIKEPATHS SHALL BE PLACED PARALLEL TO, AND ONE FOOT WITHIN THE RIGHT-OF-WAY LINE EXCEPT THAT THE CITY MAY APPROVE DEVIATIONS TO SAVE SPECIMEN TREES PROVIDED THAT THE SIDEWALK REMAINS WITHIN THE RIGHT-OF-WAY OR AN APPROVED SIDEWALK EASEMENT ABUTTING THE RIGHT OF WAY. SIDEWALKS AND BIKE PATHS SHOULD BE LOCATED AT LEAST 4 FEET FROM THE EDGE OF THE STREET PAVEMENT UNLESS OTHERWISE APPROVED BY THE CITY.
3. THE TOP OF THE CONCRETE SHALL BE AT AN ELEVATION NO LOWER THAN THE CROWN OF THE ADJACENT ROADWAY, AND NO HIGHER THAN 6 INCHES ABOVE THE CROWN UNLESS APPROVED BY THE CITY TO MAKE A MORE NATURAL TRANSITION WITH THE ADJACENT LAND.
4. ISOLATION JOINTS (TYPE A JOINTS) SHALL BE INSTALLED SO END PRODUCT IS FLUSH WITH EXISTING AND NEW CONCRETE AS TO PREVENT TRIP HAZARDS . TO SEPARATE PEDESTRIAN SECTIONS FROM SECTIONS WHICH WILL ENCOUNTER VEHICLE TRAFFIC, TO SEPARATE FRESH PLACEMENT FROM CONCRETE WHICH HAS SET FOR MORE THAN 60 MINUTES, AND NO FARTHER APART THAN 100 FEET IN SIDEWALKS AND BIKEPATHS. JOINT MATERIAL SHALL BE AS SPECIFIED IN F.D.O.T. STANDARDS AND SPECIFICATIONS AND SHALL BE RUBBER, PLASTIC OR OTHER APPROVED NON-BIODEGRADABLE ELASTOMERIC MATERIAL. WOOD AND DECCA-DRAIN STYLE POOL DRAINS ARE STRICTLY PROHIBITED.
5. CONTROL JOINTS (TYPE B JOINTS) SHALL BE TOOLED INTO THE FRESH CONCRETE TO A DEPTH EQUAL TO 1/4 THE SLAB THICKNESS AND SPACED APART A DISTANCE EQUAL TO THE WIDTH OF THE SLAB OR 5 FEET WHICHEVER IS GREATEST.
6. THE SLAB SURFACE SHALL BE BROOM FINISHED TO BE SLIP RESISTANT, AND SHALL MATCH AS CLOSELY AS POSSIBLE THE FINISH OF EXISTING ADJACENT SLABS AND ALL EDGES SHALL BE TOOLED TO ELIMINATE SHARP CORNERS.
7. THE BEARING SUBSURFACE SHALL HAVE ALL ORGANIC, LOOSE, AND DELETERIOUS MATTER REMOVED, AND THE REMAINING CLEAN SOIL SHALL BE SMOOTH, SOUND, AND SOLID. ANY FILL MATERIAL SHALL BE COMPACTED WITH A VIBRATORY OR IMPACT COMPACTION MACHINE IN MAXIMUM 12 INCH LIFTS OR COMPACTED WITH A HAND TAMPER IN MAXIMUM 4 INCH LIFTS THE CITY SHALL REQUIRE A COMPACTION TEST FOR EACH LIFT IF THE TOTAL FILLED SECTION IS MORE THAN 12 INCHES DEEP OR IF THE SUBSURFACE HAS BEEN DISTURBED MORE THAN 12 INCHES DEEP. WHERE SUCH TEST IS REQUIRED, THE RESULTS SHALL SHOW A MINIMUM PROCTOR FIELD DENSITY OF 95 PERCENT.
8. ALL CONCRETE WORK IN THE RIGHT-OF-WAY SHALL BE INSPECTED BY THE CITY AFTER THE SUBSOIL IS PREPARED AND THE FORMS ARE SET, BUT BEFORE THE CONCRETE PLACEMENT BEGINS.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE FINISHED SLAB FROM ALL DAMAGE AND VANDALISM UNTIL THE CITY ACCEPTS OR APPROVES THE SLAB, AFTER WHICH TIME THE OWNER OF THE ABUTTING LAND SHALL BE RESPONSIBLE FOR THE SLAB IN ACCORDANCE WITH THE CITY CODE. ANY SLAB SECTION DAMAGED OR VANDALIZED PRIOR TO ACCEPTANCE OR APPROVAL SHALL BE CUT OUT BETWEEN JOINTS AND REPLACED. REPAIRS ARE NOT ACCEPTABLE.
10. SIDEWALKS LOCATED WITHIN THE RIGHT-OF-WAY SHALL NOT BE TINTED, STAINED, COLORED, OR COATED.
11. ALL FORMS SHALL BE REMOVED PRIOR TO ACCEPTANCE OR APPROVAL AND THE DISTURBED GROUND SHALL BE BACKFILLED, REGRADED, AND SODDED SO THAT THE WEAR SURFACE OF THE CONCRETE IS REASONABLY FLUSH WITH THE ADJACENT GRADE.

STANDARD CONSTRUCTION DETAIL
SIDEWALK CONSTRUCTION REQUIREMENTS

FILE NAME: EW_M2.DWG
DETAIL REF: M-2

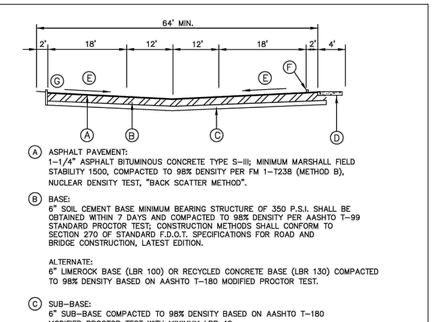


NOTES:

1. RAMP LOCATIONS ARE TO BE COORDINATED WITH AND IN CONFORMANCE WITH CROSSWALK MARKING DETAILS SHOWN IN THE PLANS.
2. CURBED RAMPS SHALL HAVE FLARED SIDES WITH A MAXIMUM SLOPE OF 12:1.
3. RAMPS SHALL HAVE A TACTLIKE SURFACE, TEXTURED TO A DEPTH NOT EXCEEDING 1/8".
4. RAMPS ARE TO BE CONSTRUCTED AT ALL LOCATIONS SHOWN IN THE PLANS EVEN WHEN A SIDEWALK IS NOT CONSTRUCTED CONCURRENTLY.
5. NO CURB TRANSITION IS NEEDED FOR MIAMI CURBS.
6. ALL RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH FDOT INDEX NO. 304 AND HANDICAPPED ACCESSIBILITY REQUIREMENTS IN ACCORDANCE WITH THE AMERICAN DISABILITIES ACT.

STANDARD CONSTRUCTION DETAIL
SIDEWALK AND BIKEPATH RAMP

FILE NAME: EW_M3.DWG
DETAIL REF: M-3



(A) ASPHALT PAVEMENT:
1-1/4" ASPHALT BITUMINOUS CONCRETE TYPE S-1½ MINIMUM MARSHALL FIELD STABILITY 1500, COMPACTED TO 98% DENSITY PER FM 1-T238 (METHOD B), NUCLEAR DENSITY TEST, "BACK SCATTER METHOD".

(B) BASE:
6" SOIL CEMENT BASE MINIMUM BEARING STRUCTURE OF 350 P.S.I. SHALL BE OBTAINED WITHIN 7 DAYS AND COMPACTED TO 98% DENSITY PER AASHTO T-99 STANDARD PROCTOR TEST. CONSTRUCTION METHODS SHALL CONFORM TO SECTION 270 OF STANDARD F.D.O.T. SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.

ALTERNATE:
6" LIMEROCK BASE (LBR 100) OR RECYCLED CONCRETE BASE (LBR 130) COMPACTED TO 98% DENSITY BASED ON AASHTO T-180 MODIFIED PROCTOR TEST.

(C) SUB-BASE:
6" SUB-BASE COMPACTED TO 98% DENSITY BASED ON AASHTO T-180 MODIFIED PROCTOR TEST WITH MINIMUM LBR 40.

(D) 4'-0" WIDE, 4" THICK, CONCRETE SIDEWALK, 3000 P.S.I.

(E) THE MINIMUM ALLOWABLE PARKING LOT PAVEMENT SLOPE FOR ASPHALT SHALL BE NO LESS THAN 0.75% MEASURED FROM THE RECEIVING INLET OR FLUME TO ANY PAVEMENT. (NOTE THAT THE MINIMUM SLOPE MAY BE REDUCED TO 0.50% FOR CONCRETE PAVEMENT.)

(F) CONCRETE WHEEL STOP.

(G) 6" HEADER CURB WITH 1'-6" OF SODDED OVERHANG

NOTES:

1. ALL MATERIALS ARE TO BE APPROVED BY THE CITY'S DESIGNATED SITE INSPECTOR AND THE DEVELOPER'S LICENSED SOILS ENGINEER PRIOR TO PLACEMENT.
2. A REPRESENTATIVE OF A CERTIFIED SOIL LABORATORY SHALL BE PRESENT DURING ALL CONSTRUCTION PHASES UTILIZING A SOIL CEMENT BASE. THE REPRESENTATIVE SHALL BE CERTIFIED BY F.D.O.T. IN THE INSTALLATION OF SOIL CEMENT.

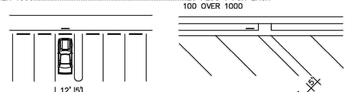
STANDARD CONSTRUCTION DETAIL
PRIVATE PARKING LOT

FILE NAME: EW_M5.DWG
DETAIL REF: M-5

HANDICAP ACCESSIBLE PARKING SPACES SHALL BE PROVIDED IN ACCORDANCE WITH CURRENT FLORIDA STATUTES, INCLUDING THE FOLLOWING DETAILS:

1. ANY COMMERCIAL REAL ESTATE PROPERTY OWNER OFFERING PARKING FOR THE GENERAL PUBLIC SHALL PROVIDE SPECIALLY DESIGNED AND MARKED MOTOR VEHICLE PARKING SPACES FOR THE EXCLUSIVE USE OF PHYSICALLY DISABLED PERSONS WHO HAVE BEEN ISSUED PARKING PERMITS PURSUANT TO STATE LAW.
2. DIAGONAL OR PERPENDICULAR PARKING SPACES SHALL BE A MINIMUM OF 12 FEET WIDE (SEE FIGURE 1).
3. PARALLEL PARKING SPACES SHALL BE LOCATED EITHER AT THE BEGINNING OR END OF A BLOCK OR ADJACENT TO ALLEY ENTRANCES (SEE FIGURE 2). CURBS ADJACENT TO SUCH SPACES SHALL BE OF A HEIGHT WHICH WILL NOT INTERFERE WITH THE OPENING AND CLOSING OF MOTOR VEHICLE DOORS.
4. EACH SUCH PARKING SPACE SHALL BE CONSPICUOUSLY OUTLINED IN BLUE PAINT AND SHALL BE POSTED AND MAINTAINED WITH A PERMANENT, ABOVE-GRADE SIGN BEARING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AND THE CAPTION PARKING BY DISABLED PERMIT ONLY, AND AN ADDITIONAL SIGN STATING THE PENALTY FOR ILLEGAL USE OF THE SPACE (SEE FIGURE 2). SUCH SIGNS SHALL NOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE. ALL HANDICAP ACCESSIBLE PARKING MUST BE SIGNED AND MARKED IN ACCORDANCE WITH THE STANDARDS ADOPTED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION.
5. ALL SPACES SHALL HAVE A SIXTY INCH (60") WIDE ADJACENT ACCESS AISLE (SEE FIGURE 2). PARKING ACCESS AISLES SHALL BE PART OF THE ACCESSIBLE ROUTE TO THE BUILDING OR FACILITY ENTRANCE. TWO ACCESSIBLE PARKING SPACES MAY SHARE A COMMON ACCESS AISLE. PARKED VEHICLE OVERHANGS SHALL NOT REDUCE THE CLEAR WIDTH OF AN ACCESSIBLE CIRCULATION ROUTE.
6. ALL SPACES SHALL HAVE AN ACCESSIBLE CURB-RAMP OR CURB-CUT TO ALLOW ACCESS TO THE BUILDING SERVED. IT SHALL BE LOCATED SO THAT USERS WILL NOT BE COMPELLED TO WHEEL BEHIND PARKED VEHICLES.
7. THE MINIMUM NUMBER OF SUCH PARKING SPACES SHALL COMPLY WITH THE FOLLOWING TABLE:

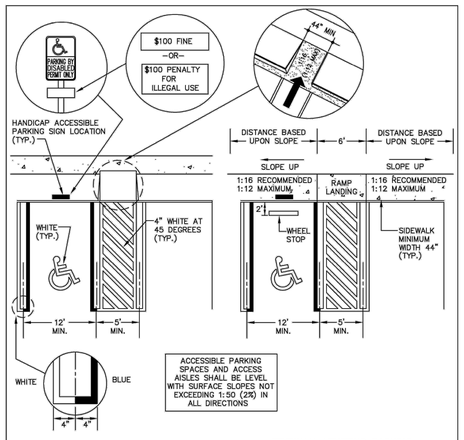
TOTAL PARKING IN LOT	REQUIRED NUMBER OF ACCESSIBLE SPACES
UP TO 25	1
26 TO 50	2
51 TO 75	3
76 TO 100	4
101 TO 150	5
151 TO 200	6
201 TO 300	7
301 TO 400	8
401 TO 500	9
OVER 1000	2% OF TOTAL
	20 PLUS 1 FOR EACH 100 OVER 1000



(A) PERPENDICULAR FIG. 1 (B) DIAGONAL

STANDARD CONSTRUCTION DETAIL
HANDICAP ACCESSIBLE PARKING SPACES

FILE NAME: EW_M8.DWG
DETAIL REF: M-8

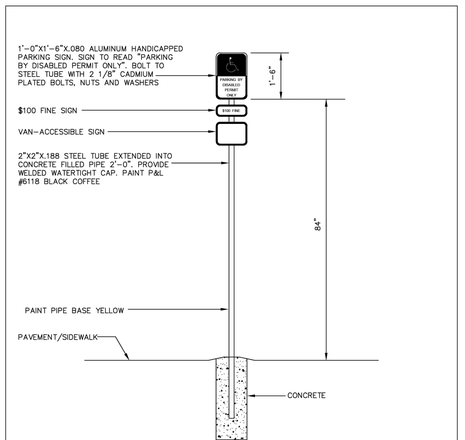


NOTE:

1. WHEN HEADER CURB IS USED IN LIEU OF WHEEL STOPS, SIDEWALK ABUTTING CURB MUST BE WIDENED BY 18" SO THAT THE TOTAL SIDEWALK WIDTH IS 62", ALLOWING FOR 44" MINIMUM CLEAR ACCESSIBLE ROUTE.
2. FOR COMPLETE DETAIL OF HANDICAPPED SIGN, REFER TO DETAIL M-10.

STANDARD CONSTRUCTION DETAIL
HANDICAP ACCESSIBLE PARKING SPACES

FILE NAME: EW_M9.DWG
DETAIL REF: M-9



NOTE:

1. HANDICAPPED PARKING SIGN SHALL CONFORM WITH CURRENT STATE AND LOCAL AND FEDERAL CODES AND REGULATIONS.
2. ALL SIGNS SHALL BE DESIGNED TO WITHSTAND 100 M.P.H. WINDLOAD.

STANDARD CONSTRUCTION DETAIL
HANDICAP SIGN

FILE NAME: EW_M10.DWG
DETAIL REF: M-10

REQUIREMENTS FOR AS-BUILT DRAWINGS

IN ORDER TO ENSURE THAT NEW SUBDIVISIONS AND SITE PLANS ARE CONSTRUCTED SUBSTANTIALLY IN ACCORDANCE WITH CITY REGULATIONS AND THE APPROVED DRAWINGS, THE FOLLOWING INFORMATION IS REQUIRED ON ALL SUBDIVISION AS-BUILT DRAWINGS.

1. PAVEMENT AND CURB WIDTHS SHALL BE VERIFIED AND DIMENSIONED FOR EACH STREET AT EACH BLOCK. (FOR SUBDIVISIONS) AND AS APPROPRIATE TO CONFIRM PAVING LIMITS (ON SITE PLANS).
2. ALL RADII AT INTERSECTIONS SHALL BE VERIFIED AND DIMENSIONED. THIS INFORMATION IS TO BE CLEARLY INDICATED ON THE AS-BUILT.
3. ROADWAY ELEVATIONS SHALL BE RECORDED AT ALL GRADE CHANGES, 100' INTERVALS ALONG ROADWAY, AND OTHER INTERVALS AS NEEDED ALONG ALL STREETS. STREET CENTERLINE AND CURB INVERT ELEVATIONS SHALL BE RECORDED AS NOTED. THE AS-BUILT CENTERLINE PROFILE OF ALL STREETS SHALL ALSO BE SHOWN ON THE PLAN AND PROFILE SO IT MAY BE COMPARED TO THE DESIGN PROFILE GRADE LINES. IN THE EVENT THAT THE AS-BUILT CENTERLINE LONGITUDINAL GRADE DOES NOT MEET THE CITY MINIMUM STANDARDS, ADDITIONAL LONGITUDINAL GRADES OF THE ADJACENT CURBING AND SIMILAR ROADWAY CROSS-SECTION SURVEYS TO VERIFY THE CORRECT CROSS SLOPE, SHALL BE REQUIRED TO VERIFY THAT THE SYSTEM WILL FUNCTION AS ORIGINALLY DESIGNED.
4. STORM DRAINAGE STRUCTURES SHALL BE LOCATED AND / OR DIMENSIONED FROM CENTERLINES OR LOT LINES AS APPROPRIATE.
5. STORM DRAINAGE PIPE INVERT AND INLET ELEVATIONS SHALL BE RECORDED AND CLEARLY DENOTED AS AS-BUILT INFORMATION. DESIGN ELEVATIONS SHALL BE CROSSED OUT AND AS-BUILT INFORMATION WRITTEN NEXT TO IT.
6. STORM DRAINAGE PIPE MATERIAL, LENGTH, AND SIZE SHALL BE MEASURED AND / OR VERIFIED. THIS INFORMATION IS TO BE CLEARLY INDICATED AS BEING AS-BUILT INFORMATION .
7. ALL APPLICABLE TOPOGRAPHIC INFORMATION PERTINENT TO THE ON-SITE DRAINAGE SYSTEM, SUCH AS DITCHES, SWALES, LAKES, CANALS, ETC. THAT ARE DEEMED NECESSARY BY THE CITY TO VERIFY THE FUNCTIONAL PERFORMANCE OF THE STORMWATER SYSTEM, SHALL BE NOTED. NORMALLY, RECORDING ELEVATIONS EVERY 100 FEET AT THE TOP OF BANK AND TOE OF SLOPE WILL BE REQUIRED. MEASUREMENTS SHALL BE TAKEN AND RECORDED IN ORDER TO ACCURATELY TIE DOWN THESE FEATURES TO THE ROADWAY CENTERLINES AND TO PLAT LINES. WHENEVER POSSIBLE, CONTOUR LINES SHALL BE UTILIZED TO GRAPHICALLY DESCRIBE THESE TOPOGRAPHIC FEATURES .
8. RETENTION AREAS SHALL HAVE THEIR TOP-OF BANK AND BOTTOM ELEVATIONS RECORDED. ACTUAL MEASUREMENTS SHALL BE TAKEN AND DIMENSIONS RECORDED OF THE SIZE OF ALL RETENTION AREAS. MEASUREMENTS SHALL BE DONE FROM TOP-OF-BANK TO TOP-OF-BANK WITH SIDE SLOPES INDICATED. SEPARATE CALCULATIONS SHALL BE SUBMITTED TO INDICATE REQUIRED AND PROVIDED RETENTION VOLUMES.
9. ACTUAL MATERIALS USED AND ELEVATIONS AND DIMENSIONS OF OVERFLOW WEIR STRUCTURES AND SKIMMERS SHALL BE NOTED ON THE AS-BUILT.
10. STORM DRAINAGE SWALE CENTERLINES SHALL BE LOCATED AND ELEVATIONS OF FLOW LINE AND TOP OF BANK SHALL BE RECORDED EVERY 100 FEET. SIDE SLOPES SHALL ALSO BE INDICATED.
11. SANITARY SEWER MANHOLES SHALL BE VERIFIED AND DIMENSIONED FROM STREET CENTERLINES OR LOT LINES AS APPROPRIATE. ALL RIM AND INVERT ELEVATIONS SHALL BE VERIFIED AND RECORDED. THIS INFORMATION SHALL BE CLEARLY INDICATED AS BEING AS-BUILT INFORMATION. DESIGN ELEVATIONS SHALL BE CROSSED OUT AND AS-BUILT INFORMATION WRITTEN NEXT TO IT.
12. FOR SUBDIVISIONS, PROPOSED DESIGN FINISHED FLOOR ELEVATIONS SHALL APPEAR ON ALL SUBDIVISION LOTS ON THE APPROPRIATE PLAN AND PROFILE SHEET AS WELL AS ON THE MASTER DRAINAGE PLAN.

STANDARD CONSTRUCTION DETAIL
REQUIREMENTS FOR AS-BUILT DRAWINGS

FILE NAME: EW_M11.DWG
DETAIL REF: M-11

LEVELUP CONSULTING, LLC
505 E. JACKSON STREET
SUITE 200
TAMPA, FLORIDA 33602
OFFICE: 813-375-0616
WWW.LEVELUPFLORIDA.COM

CONSTRUCTION PLAN REVISIONS

1	03/29/24	REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
2	04/26/24	REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
3	06/19/24	REVISED PER CITY OF EDGEWATER COMMENTS
4	07/15/24	REVISED PER CITY OF EDGEWATER COMMENTS

YARDLY
EDGEWATER RIVER OAKS
CLIENT: TM BTR OF FLORIDA, LLC
CONSTRUCTION DETAILS

Engineering Business Certificate of Authorization No. 32771
Florida Certificate of Authorization No. LC26006638

BRANDON D. MACHIELA LICENSE NO. 90686 STATE OF FLORIDA PROFESSIONAL ENGINEER

BRANDON D. MACHIELA
FLORIDA LICENSED PROFESSIONAL ENGINEER
REGISTRATION NUMBER 90686

PROJECT No. 199-01-01
SHEET C 10.2

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7/16/2024 1:52:22 PM PLOTTED BY: brandon machiela

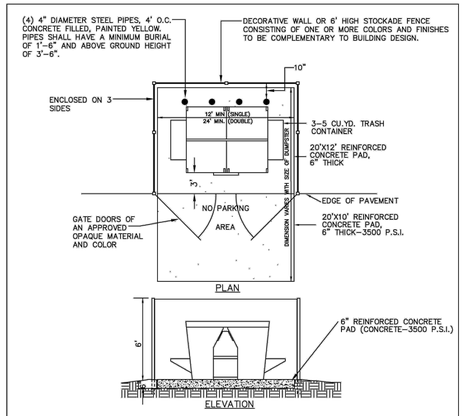
REQUIREMENTS FOR AS–BUILT DRAWINGS (CONTD.)

13. SANITARY SEWER LINE LENGTHS, SIZES, MATERIAL, ETC., SHALL BE VERIFIED AND RECORDED. THIS INFORMATION IS TO BE CLEARLY INDICATED AS BEING AS–BUILT INFORMATION.
14. SEWER LATERALS SHALL BE VERIFIED AND RECORDED AT THEIR CLEAN–OUT LOCATIONS. STATIONING AND OFFSET DISTANCES SHALL BE MEASURED FROM DOWNSTREAM MANHOLES TOWARDS UPSTREAM MANHOLES.
15. LIFT STATIONS AND FORCE MAINS SHALL BE VERIFIED AND DIMENSIONED FROM STREET CENTERLINES OR LOT LINES AS APPROPRIATE. FORCE MAIN DEPTH AND LOCATION INCLUDING VALVES WILL BE PROVIDED AND TIED TO PERMANENT ABOVE GRADE FEATURES. DIMENSIONAL AND ELEVATION INFORMATION INDICATED ON THE APPROVED PLAN SHALL BE VERIFIED AND RECORDED. THIS INFORMATION SHALL BE CLEARLY INDICATED AS BEING AS–BUILT INFORMATION. BURIED ELECTRICAL SERVICE LINE SHALL BE CLEARLY DIMENSIONED, LOCATED, AND LABELED.
16. CURB CUTS OR METAL TABS, USED TO MARK SEWER LATERALS, WATER SERVICES AND WATER VALVES, SHALL BE VERIFIED FOR PRESENCE AND ACCURACY OF LOCATION.
17. POTABLE AND RECLAIMED WATER MAIN LINES SHALL BE DIMENSIONED OFF THE BACK OF CURB, OR EDGE OF PAVEMENT IF NO CURB IS PRESENT. WATER MAIN LINE MATERIAL SIZE, LENGTH AND DEPTH PLACED SHALL ALSO BE NOTED. LOCATIONS OF VALVES SHALL BE TIED TO PERMANENT ABOVE GRADE FEATURES. THIS INFORMATION SHALL BE CLEARLY INDICATED AS BEING AS–BUILT INFORMATION.
18. POTABLE AND RECLAIMED WATER VALVES, TEES, BENDS, ALL SERVICES, AND FIRE HYDRANTS SHALL BE LOCATED BY TYING THEM TO SANITARY SEWER MANHOLES. SIMILARLY, FORCE MAIN VALVES, TEES, AND BENDS SHALL BE LOCATED IN THE SAME MANNER. STATIONING AND OFFSET DISTANCES SHALL BE MEASURED FROM DOWNSTREAM MANHOLES TO UPSTREAM MANHOLES.
19. FOR PERPENDICULAR CROSSINGS OF STORMWATER, SANITARY SEWER, POTABLE WATER, OR RECLAIMED WATER, THE AS–BUILT PLANS SHALL CLEARLY INDICATE WHICH UTILITIES ARE LOCATED OVER OR UNDER OTHER UTILITIES, AS NECESSARY.
20. ANY SPECIAL FEATURES SUCH AS, CONCRETE FLUMES, LAKE BANKS, WALLS, FENCING, ETC., WHICH WERE A PART OF THE APPROVED CONSTRUCTION DRAWINGS SHOULD ALSO BE LOCATED AND DIMENSIONED.
21. IF AN APPROVED SUBDIVISION PLAT OR SITE PLAN SHOWS A CONSERVATION EASEMENT, THE PROJECT SURVEYOR SHOULD PROVIDE THE EXACT LOCATION OF THE SPECIMEN TREE(S) FROM THE RIGHT–OF–WAY OR PROPERTY LINES AND PROPOSED EASEMENT BOUNDARIES ON THE AS–BUILT DRAWING. THE AS–BUILT LOCATION OF THESE TREES WILL HELP VERIFY THE SUFFICIENCY OF THE CONSERVATION EASEMENT PRIOR TO PLAT RECORDING OR CERTIFICATE OF OCCUPANCY.
22. WHEN STORMWATER, POTABLE WATER, RECLAIMED WATER, OR SANITARY SEWER IMPROVEMENTS ARE ARE LOCATED WITHIN AN EASEMENT, THE AS–BUILT DRAWING SHALL ACCURATELY DEPICT THE LOCATION OF THE EASEMENT ITSELF AS WELL AS THE EXACT LOCATION OF THE IMPROVEMENTS WITHIN THE EASEMENT. THIS IS REQUIRED IN ORDER TO VERIFY THAT THE IMPROVEMENTS HAVE BEEN PROPERLY LOCATED AND TO ENSURE THAT FUTURE SUBSURFACE EXCAVATION TO PERFORM REMEDIAL REPAIR CAN BE ACCOMPLISHED WITHOUT DISTURBANCE BEYOND THE EASEMENT.

NOTE:

1. REFERENCES TO WATER SHALL MEAN BOTH POTABLE AND RECLAIMED WATER.

EDGEWATER	STANDARD CONSTRUCTION DETAIL REQUIREMENTS FOR AS–BUILT DRAWINGS	FILE NAME: EW_M12.DWG DETAIL REF: M–12



NOTES:

1. MAXIMUM ANGLE OF CONTAINER PAD TO DIRECTION OF AISLE TO BE 30°
2. AREA TO BE FREE OF OVERHEAD LINES AND WIRES.
3. DUMPSTER PAD TO BE 12' MIN. (SINGLE) 24' MIN (DOUBLE) FOR DUMPSTER RECYCLING.
4. APPLICANT TO PROVIDE A SIDE ELEVATION TO DEMONSTRATE COLOR, MATERIAL, AND DESIGN CONSISTENCY WITH THE PRINCIPAL BUILDING.

EDGEWATER	STANDARD CONSTRUCTION DETAIL DUMPSTER PAD	FILE NAME: EW_M13.DWG DETAIL REF: M–13

STREET AND WALKWAY LIGHTS

WALKWAY LIGHTS: (HEIGHT: 10 TO 20 FEET)

1. WALKWAY LIGHTING SHALL BE PROVIDED IN ALL PUBLIC PARKING AND WALKWAY AREAS. LIGHT STYLES AND SPACING SHALL BE DETERMINED BY THE COMMUNITY DEVELOPMENT DEPT. AT THE SAME TIME OF SITE PLAN REVIEW.
2. UNLESS SPECIFIED OTHERWISE, THE WALKWAY LIGHTS SHALL BE ANY OF THE THREE (3) STYLES DETAILED HEREIN OR THE FOLLOWING: STERNBERG GEORGETOWN (0650 / 4408–DFP), WILLIAMSBURG (9405–TF / 3610–T) OR COLONIAL (4620TF–LF). ALL CITY MAINTAINED WALKWAY LIGHTS ARE TO BE FLORIDA POWER AND LIGHT (FPL) SUPPLIED LIGHTS, UTILIZING 150 WATT HPS.
4. SPACING SHALL BE A MAXIMUM OF 100 FEET ON CENTER.

STREET LIGHTS: (HEIGHT: 20+ FEET)

1. ALL CITY MAINTAINED STREET LIGHTS ARE TO BE FPL SUPPLIED STREET LIGHTS.
2. PRIVATELY MAINTAINED STREET LIGHTS SHALL BE: GARDCO LIGHTING EH / 26" / 1 / 3 / 150 HPS / 240 / BRA / PC (NOTE: POLE SHALL BE CONCRETE AVAILABLE THROUGH F.P.L. AND SPACED AT INTERVALS OF 300 TO 400 FEET.)

EDGEWATER	STANDARD CONSTRUCTION DETAIL STREET AND WALKWAY LIGHTS	FILE NAME: EW_M14.DWG DETAIL REF: M–14

STORM DRAINAGE DESIGN AND CONSTRUCTION NOTES

ALL MATERIALS AND INSTALLATION METHODS USED FOR LAND DEVELOPMENT CODE REQUIRED IMPROVEMENTS FOR SUBDIVISIONS AND SITE PLANS SHALL BE IN CONFORMANCE WITH THE CITY, FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), AND THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS (LATEST EDITION).

1. ALL STORM SEWERS AND CULVERTS LOCATED IN ROADWAY RIGHTS–OF–WAY AND ROADWAY EASEMENTS SHALL BE A MINIMUM OF CLASS III REINFORCED CONCRETE PIPE. PRIVATE SITES AND AREAS OUTSIDE OF ROADWAY EASEMENTS AND R.O.W., PIPE MAY BE MADE OF ALTERNATE MATERIALS INCLUDING:
   A. SMOOTH INNER WALL HIGH DENSITY POLYETHYLENE (HDPE) IN ACCORDANCE WITH AASHTO M–294, AASHTO MP7, ASTM D3350 AND ASTM D2412 FOR SIZES UP TO 42" IN DIAMETER OR
   B. PVC IN ACCORDANCE WITH THE PROVISION NOTED IN THE "SEWER DETAILS" OF THESE SPECIFICATIONS.
2. ALL STORM SEWER PIPE JOINTS LOCATED IN ROADWAY RIGHTS–OF–WAY AND ROADWAY EASEMENTS SHALL BE ENTIRELY WRAPPED WITH FILTER FABRIC WITH A MINIMUM WIDTH OF 24" AND A MINIMUM OF 24" OVERLAP SECURED WITH PLASTIC OR STAINLESS BANDS. GASKETS ARE NOT PERMITTED AS AN EQUIVALENT SUBSTITUTE FOR MEETING THIS REQUIREMENT. THIS PRACTICE IS REQUIRED ON PRIVATE SITES ADDITIONALLY, ALL JOINTS SHALL BE RUBBER GASKETED FOR BOTH ROUND AND ELLIPTICAL PIPE.
3. DEPTH OF COVER MEASURED TO THE TOP OF PIPE (NOT INCLUDING THE BELL JOINT) SHALL BE A MINIMUM OF 1 FOOT. DEVIATION FROM THIS REQUIREMENT MAY BE ALLOWED BY INCREASING THE PIPE'S STRUCTURAL CAPACITY. THIS DEVIATION MUST BE SPECIFIED ON THE PLANS APPROVED FOR CONSTRUCTION AND SUBSEQUENTLY REFLECTED ON THE SHOP DRAWINGS AND AS–BUILT PLANS.
4. ALL STORM DRAINAGE PIPES LOCATED IN ROADWAY RIGHTS–OF–WAY AND ROADWAY EASEMENTS SHALL BE A MINIMUM OF TWELVE INCH (12") DIAMETER OR EQUIVALENT AND BE DESIGNED FOR A MINIMUM OF A TWENTY–FIVE (25) YEAR STORM OF TWENTY–FOUR (24) HOUR DURATION. STORM DRAINAGE PIPES SMALLER THAN 12" ARE PERMITTED ON PRIVATE SITE PLANS PROVIDING THAT MAINTENANCE SHALL BE PERFORMED BY THE OWNER.
5. STORM INLETS, MANHOLES, AND CATCH BASINS SHALL BE EITHER POURED IN PLACE OR PRECAST REINFORCED CONCRETE. STRUCTURES SHALL BE REQUIRED AT EACH CHANGE OF PIPE SIZE OR CHANGE IN PIPE DIRECTION. ALL STRUCTURES SHALL BE IN COMPLIANCE WITH ASTM C–478 AND SHALL HAVE 8" THICK WALLS. 6" THICK WALLS MAY BE PERMITTED PROVIDING THAT THE PLANS SPECIFY INCREASED REINFORCEMENT IN ACCORDANCE WITH FDOT STANDARD INDEX NO. 201 IN ADDITION, THIS REQUIREMENT MUST BE REFLECTED ON BOTH THE SHOP DRAWING AND AS–BUILT PLANS. NOTE: INLET APRONS MAY REQUIRE EXPANSION JOINTS AROUND THE STRUCTURE AS DICTATED BY THE CITY.
6. STORM INLETS SHALL BE SPACED IN SUCH A MANNER AS TO ACCEPT ONE HUNDRED (100) PERCENT OF THE DESIGN STORM RUNOFF WITHOUT IMPEDING THE FLOW OF TRAFFIC. FOR ROADWAY SECTIONS WITH DESIGN SPEEDS OF 45 MPH AND LESS AND WITHOUT FULL WIDTH SHOULDERS, SPREAD RESULTING FROM A RAINFALL INTENSITY OF FOUR INCHES (4 ") PER HOUR SHALL NOT EXCEED ONE–HALF OF THE TRAVEL LANE ADJACENT TO THE GUTTER. FOR SITE PLANS, INLET SPACING SHALL BE DESIGNED TO ACCEPT ONE HUNDRED (100) PERCENT OF THE RUNOFF FROM A RAINFALL INTENSITY OF FOUR INCHES (4 ") PER HOUR WITHOUT RESULTING IN PONDING OF WATER AROUND THE INLET.
7. LAKE DEPTHS SHALL BE EIGHT FEET (8') MINIMUM TO TWELVE FEET (12') MAXIMUM, MEASURED FROM HIGH WATER MARK.

EDGEWATER	STANDARD CONSTRUCTION DETAIL STORM DRAINAGE DESIGN AND CONSTRUCTION NOTES	FILE NAME: EW_ST4.DWG DETAIL REF: ST–4

STORM DRAINAGE DESIGN AND CONSTRUCTION NOTES (CONTD.)

8. FOR CONNECTIONS BETWEEN INLETS WITH PIPING 15" IN DIAMETER AND LARGER, THE MAXIMUM DISTANCES BETWEEN INLETS AND / OR CLEAN–OUT JUNCTION BOXES SHALL BE 300 FEET. CULVERTS SHALL BE SLOPED TO MAINTAIN A MINIMUM SELF–CLEANING VELOCITY OF 3 FEET PER SECOND USING A MANNING'S 'n' OF 0.012. SPACING FOR CLEAN–OUTS AND INLETS FOR SMALLER PIPING SHALL BE REDUCED AND EVALUATED ON A CASE BY CASE BASIS.
9. THE MAXIMUM PERMISSIBLE SLOPE OF ANY NEW SITE GRADING IS 3:1 (HORIZONTAL:VERTICAL). THIS LIMIT SHALL BE APPLIED TO ALL AREAS EXCEPT STORMWATER CONVEYANCE AND TREATMENT SYSTEMS WHICH HAVE A MAXIMUM SLOPE OF 4:1 (EXCEPT BELOW THE WATER TABLE WHERE SHARPER SLOPES ARE PERMISSIBLE.)
10. ALL SWALES AND DITCHES SHALL HAVE A MAXIMUM PERMITTED SIDE SLOPE NOT GREATER THAN 4 TO 1 AT A MINIMUM. THE MAXIMUM PERMITTED BACKSLOPE, SHALL BE 3:1, PROVIDED THAT A 2' WIDE BERM IS INSTALLED. DESIGN CENTERLINE AND TOP–OF–BANK ELEVATIONS SHALL BE NOTED AT INTERVALS OF 100'.
11. SWALES THAT ARE NORMALLY DRY AND INTENDED FOR CONVEYANCE OF STORMWATER RUNOFF AND ARE NOT INTENDED FOR RETENTION SHALL HAVE A MINIMUM DRAINAGE MAINTENANCE EASEMENT WIDTH MEASURING 15 FEET. SWALED AREAS INTENDED FOR RETENTION SHALL PROVIDE APPROPRIATE EASEMENT AREAS FOR ACCESS AND MAINTENANCE MEASURED UPLAND FROM THE TOP OF BANK. AT A MINIMUM, THE SAID EASEMENT SHALL MEASURE 10' FEET IN WIDTH FROM THE TOP OF THE SWALE.
12. PIPED STORMWATER SYSTEMS SHALL HAVE A MINIMUM DRAINAGE MAINTENANCE EASEMENT WIDTH OF 20 FEET, AND MAY BE INCREASED DEPENDING UPON THE SIZE AND DEPTH OF PIPE.
13. NORMAL ROADSIDE SWALES ARE PERMITTED TO BE CONSTRUCTED TO A MAXIMUM DEPTH OF 18" BELOW THE OUTSIDE EDGE OF PAVEMENT OR CONCRETE CURB.
14. CONCRETE EROSION CONTROL MUST BE PROVIDED WHERE SWALES OR CULVERTS INTERCEPT DRAINAGE DITCHES.
15. WHEN A LAKE IS INCORPORATED WITHIN A SUBDIVISION AND IS ABUTTED BY LOTS, SUCH ABUTTING LOT LINES SHALL BE EXTENDED INTO THE LAKE PROPORTIONATELY ENCOMPASSING ALL OF THE LAKE AREA.
16. LAKE INFLOW AND OUTLET STRUCTURES SHALL GENERALLY BE CONSTRUCTED WITH REINFORCED CONCRETE AND SHALL BE SUBJECT TO THE APPROVAL OF THE CITY. SKIMMERS FOR WET PONDS SHALL BE CONSTRUCTED SUCH THAT THE BOTTOM EXTENDS 6" BELOW THE NORMAL WATER LEVEL AND 6" ABOVE THE OVERFLOW. FOR DRY PONDS, THE SKIMMER BOTTOM SHALL BE SET 6" BELOW THE LOWEST OVERFLOW ELEVATION AND 6" ABOVE THE HIGHEST POINT OF OVERFLOW. ALL SKIMMERS SHALL BE CONSTRUCTED OF MINIMUM 1/4" THICK ALUMINUM OR FIBERGLASS ADEQUATELY SUPPORTED TO PREVENT DEFLECTION.

EDGEWATER	STANDARD CONSTRUCTION DETAIL STORM DRAINAGE DESIGN AND CONSTRUCTION NOTES	FILE NAME: EW_ST5.DWG DETAIL REF: ST–5

LEVELUP CONSULTING, LLC
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CONSTRUCTION PLAN REVISIONS

1	03/29/24	REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
2	04/26/24	REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
3	06/19/24	REVISED PER CITY OF EDGEWATER COMMENTS
4	07/15/24	REVISED PER CITY OF EDGEWATER COMMENTS

YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

CONSTRUCTION DETAILS

Engineering Business Certificate of Authorization No. 32771
Florida Certificate of Authorization No. LC26000638

BRANDON D. MACHIELA LICENSE NO. 90686 STATE OF FLORIDA PROFESSIONAL ENGINEER

BRANDON D. MACHIELA
FLORIDA LICENSED PROFESSIONAL ENGINEER
REGISTRATION NUMBER 90686

PROJECT No.	199-01-01
SHEET	C 10.3

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STORM DRAINAGE DESIGN AND CONSTRUCTION NOTES (CONTD.)

17. EROSION AND SEDIMENT CONTROL PLANS AS APPROVED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION SHALL BE EMPLOYED AT ALL TIMES. AT A MINIMUM, BEST MANAGEMENT PRACTICES (BMP's) SHALL BE UTILIZED.
18. THE CITY MAY REQUEST THAT THE DEVELOPER SUBMIT A REPORT BY A QUALIFIED HYDROLOGIST ON THE IMPACT THE LAKE WILL HAVE ON NEIGHBORING WATER TABLE ELEVATIONS BOTH DURING CONSTRUCTION AND AFTER LAKE COMPLETION. THE CITY MAY REQUIRE GROUNDWATER MONITORING DURING THE LAKE EXCAVATION.
19. ADEQUATE MAINTENANCE EASEMENTS OR RIGHTS-OF-WAY AS APPROVED BY THE CITY SHALL BE PROVIDED AROUND THE ENTIRE PERIMETER OF ALL LAKES AND ASSOCIATED OUTFALLS DISCHARGING INTO AND OUT OF LAKES. APPLICABLE CROSS SECTIONS SHALL BE INCLUDED ON ALL FINAL DEVELOPMENT PLANS.
20. DEVELOPMENT PLANS FOR ALL STORMWATER MANAGEMENT SYSTEMS SHALL CONTAIN POP-OFF DATA (OVERFLOW), BOTTOM ELEVATION, NORMAL WATER LEVELS, MEAN ANNUAL SEASONAL HIGH WATER TABLE ELEVATION, TREATMENT VOLUME AND CORRESPONDING ELEVATION, 100 YEAR HIGH WATER LEVELS, AND THE DESIGN TAILWATER ELEVATION (IF APPLICABLE).
21. IN GENERAL, ALL RETENTION / DETENTION SITES MUST BE CONSTRUCTED ON ALL PROJECTS PRIOR TO ANY ROAD, PARKING LOT, OR BUILDING CONSTRUCTION COMMENCING OR AS CURRENT PERMIT CONDITIONS DICTATE. SEWER AND WATER MAINS MAY BE INSTALLED PRIOR TO RETENTION/DETENTION SITE CONSTRUCTION IF DEWATERING IS NOT REQUIRED.
22. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ANY AND ALL DEWATERING PERMITS THAT MAY BE REQUIRED.
23. WHEN CULVERTS ARE INSTALLED TO MAINTAIN THE FLOW OF EXISTING DRAINAGE WAYS WHERE NEWLY PROPOSED ROADS WOULD OTHERWISE SEVER THE DRAINAGE WAY, THEN CULVERTS CROSSING RIGHTS-OF-WAY SHALL EXTEND FROM RIGHT-OF-WAY LINE TO RIGHT-OF-WAY LINE UNDER THE ROADWAY. CULVERTS SHALL BE DESIGNED TO ACCOMODATE THE FLOW FROM THE 100 YEAR – 24 HOUR STORM EVENT WITHOUT FLOODING ADJACENT PROPERTY OR SURCHARGING THE SAID ROADWAY.
24. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW AND MAINTAIN A COPY OF THE SJRWMD PERMIT AND/ OR NPDES CONSTRUCTION PERMIT AT THE CONSTRUCTION SITE, AND ABIDE BY ALL CONDITIONS OF THE PERMIT.
25. LANDSCAPE PLANS SHALL CLEARLY DEPICT THE DESIGN LOCATION OF PLANTINGS RELATIVE TO THE LOCATION OF PUBLIC UTILITIES AND STORMWATER INFRASTRUCTURE IN ORDER TO EVALUATE POTENTIAL CONFLICTS.

STANDARD CONSTRUCTION DETAIL
STORM DRAINAGE DESIGN AND CONSTRUCTION NOTES

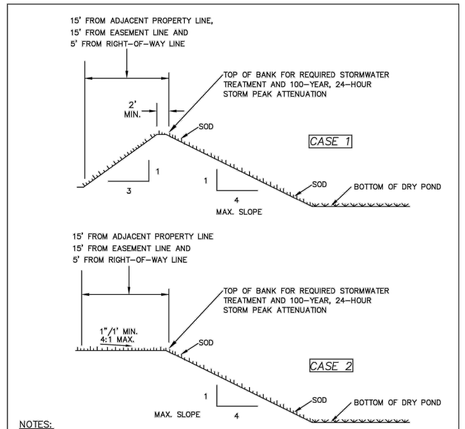
FILE NAME: EW_ST6.DWG
DETAIL REF: ST-6

CANAL AND WATERWAY DESIGN AND CONSTRUCTION NOTES

1. CANALS AND WATERWAYS SHALL BE AVOIDED EXCEPT WHEN APPROVED AND DEEMED BY THE CITY TO BE UNAVOIDABLE OR NECESSARY, WHEREIN LITERAL ENFORCEMENT OF THIS CHAPTER WOULD DEPRIVE THE DEVELOPER OF THE REASONABLE USE OF HIS LAND.
2. IN THE EVENT OF SUCH APPROVAL, THE CANALS OR WATERWAYS SHALL HAVE A MINIMUM OF TWENTY FEET (20') ADDITIONAL WIDTH ON EACH BANK MEASURED FROM THE TOP OF BANK AND LOCATED ALONG THE ENTIRE LENGTH OF THE CANAL FOR MAINTENANCE.
3. SUCH CANALS SHALL BE A MAXIMUM OF FORTY FEET (40') IN WIDTH PLUS REQUIRED MAINTENANCE AREAS.
4. CANALS SHALL HAVE A MINIMUM BOTTOM WIDTH OF THREE FEET (3') AND MAXIMUM PERMISSIBLE SIDE SLOPES OF 4:1 (HORIZONTAL: VERTICAL). SHARPER SLOPES MAY BE CONSIDERED BELOW THE NORMAL WATER LEVEL PROVIDING THAT ADDITIONAL BANK STABILIZATION MEASURES ARE INSTALLED BASED UPON THE RECOMMENDATIONS OF A CERTIFIED GEOTECHNICAL ENGINEER. CANAL BANKS SHALL BE SODDED.
5. WATERWAYS AFFECTED BY TIDAL ACTION SHALL HAVE A MINIMUM DEPTH OF NINE FEET (9') BELOW SEA LEVEL REFERENCING THE NATIONAL GEODETIC VERTICAL DATUM (N.G.V.D.). THESE WATERWAYS SHALL BE SEPARATED FROM FRESH WATER BY SALINITY DAMS WITH SPILLWAY ELEVATIONS AS APPROVED BY THE CITY.
6. TWENTY FEET (20') WIDE DRAINAGE/MAINTENANCE EASEMENTS SHALL BE REQUIRED IN ORDER TO PROVIDE FOR THE NORMAL MAINTENANCE OF THESE WATER BODIES. THESE EASEMENTS SHALL BE ESTABLISHED BY THE CITY BASED ON EXISTING AND FUTURE CONDITIONS AS WELL AS THE TYPES OF MAINTENANCE EQUIPMENT AVAILABLE.

STANDARD CONSTRUCTION DETAIL
CANAL AND WATERWAY DESIGN AND CONSTRUCTION NOTES

FILE NAME: EW_ST7.DWG
DETAIL REF: ST-7

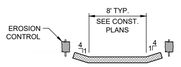


NOTES:

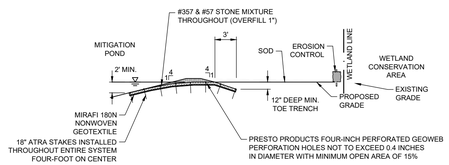
1. SOD IS TO BE PLACED TO BOTTOM OF DRY POND.
2. BOTTOM OF DRY POND TO BE SEEDED AND MULCHED (EXCEPT WHERE "A"-TYPE SOILS ARE PRESENT WHICH REQUIRES SODDING OF ENTIRE BOTTOM OF POND).
3. CASE 1 BERM SHALL REQUIRE THE INSTALLATION OF LIMITING SOILS OR OTHER MATERIALS TO REDUCE LATERAL TRANSMISSIVITY.

STANDARD CONSTRUCTION DETAIL
DRY RETENTION POND
PLACEMENT BY R/W AND EASEMENT LINES

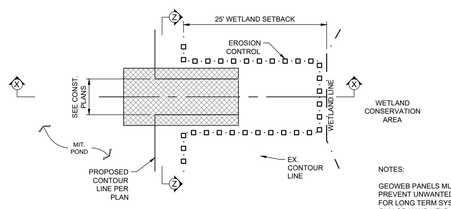
FILE NAME: EW_ST9.DWG
DETAIL REF: ST-9



SECTION Z-Z
N.T.S.



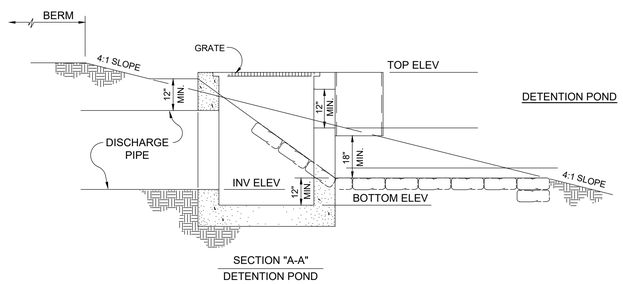
GEOWEB SECTION
N.T.S.



GEOWEB TYPICAL DETAIL
N.T.S.

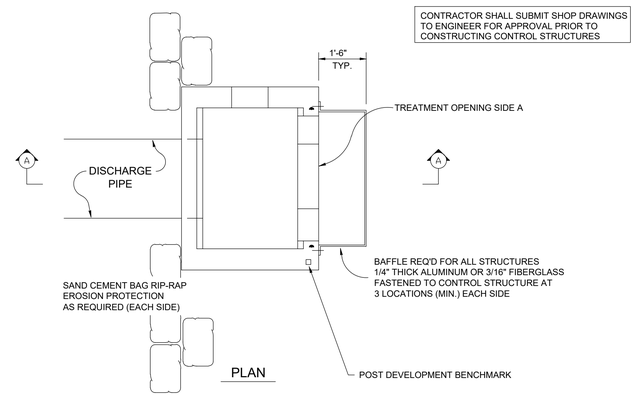
NOTES:

GEOWEB PANELS MUST BE FASTENED TOGETHER TO HELP PREVENT UNWANTED SEPARATION DURING INFILLING AND FOR LONG TERM SYSTEM INTEGRITY. A PNEUMATIC STAPLE GUN OR HAND HELD PLIERS AND LOC RINGS CAN BE USED FOR THIS PURPOSE. EACH CELL SHALL HAVE ONE FASTENER.



SECTION "A-A"
DETENTION POND

DETENTION POND



PLAN

TYPICAL CONTROL STRUCTURE
MODIFIED

CONTROL STRUCTURE DATA

MODIFIED ATTENUATION AND TREATMENT CONTROLS

STR. NO.	FDOT BOX TYPE	OPENING TYPE	TREATMENT/ATTEN. OPENING WIDTH	TREATMENT/ATTEN. OPENING EL. (FT.)	TREATMENT/ATTEN. OPENING HEIGHT	TOP EL. (FT.)
CS-1	TYPE C	SIDE A	0.5833'	6.5	5.54'	12.10
CS-2	TYPE C	SIDE A	0.1667'	8.6	1.40'	10.00

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YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

CONSTRUCTION DETAILS

Engineering Business Certificate of Authorization No. 32771
Florida Certificate of Authorization No. LC26006638

BRANDON D. MACHIELA
LICENSE
NO. 90686
STATE OF FLORIDA
PROFESSIONAL ENGINEER

BRANDON D. MACHIELA
FLORIDA LICENSED PROFESSIONAL ENGINEER
REGISTRATION NUMBER 90686

PROJECT No. 199-01-01

SHEET C 10.4

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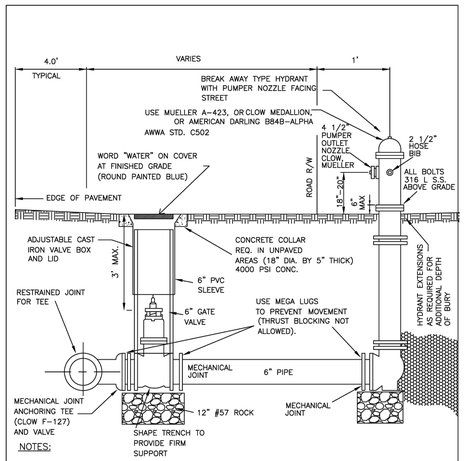
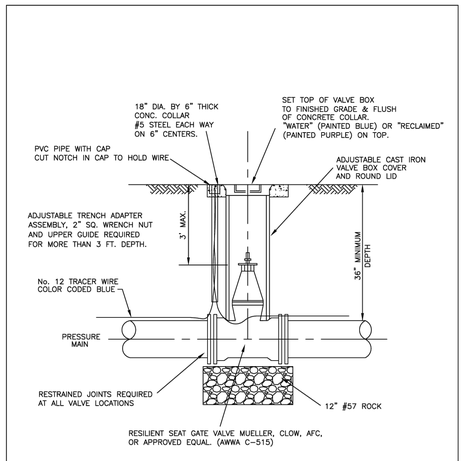


NOTES:

1. HYDRANTS TO BE PAINTED RED.
2. HOSE BIBS TO BE AMERICAN STANDARD THREADS. (FIRE THREAD)
3. RESTRAINED JOINTS REQUIRED. THRUST BLOCKS ARE NOT PERMITTED.
4. ADJUSTABLE TRENCH ADAPTOR ASSY. REQUIRED FOR ALL VALVES GREATER THAN 3' DEEP.
5. INSTALL AT SIDE LOT LINES OR AT CORNERS OF ROADWAY INTERSECTIONS, (TYPICAL)
6. BLUE REFLECTORS TO BE PLACED IN MIDDLE OF TRAVEL LANE ON SIDE OF ROAD THE HYDRANT IS ON.

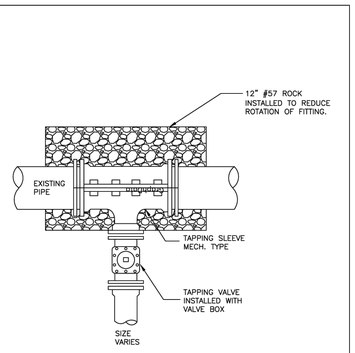
2017-10-24	STANDARD CONSTRUCTION DETAIL FIRE HYDRANT ASSEMBLY	FILE NAME: EW_W1.DWG DETAIL REF: W-1



NOTE:

1. ROD OR BOLT TEE WHERE APPLICABLE.
2. VALVE BOX EXTENSIONS SHALL BE ONE CONTINUOUS PIECE OF PIPE.

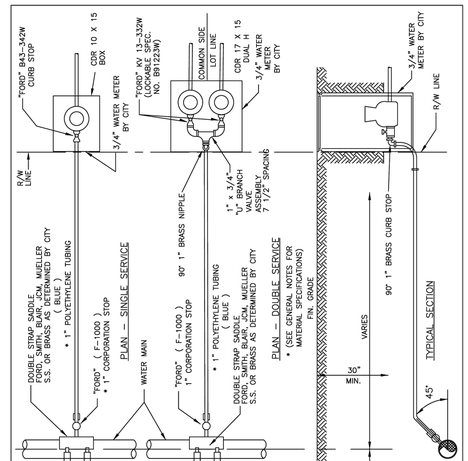
2017-10-24	STANDARD CONSTRUCTION DETAIL POTABLE WATER AND/OR RECLAIMED WATER VALVE AND VALVE BOX (2" – 16" VALVE SIZES)	FILE NAME: EW_W2.DWG DETAIL REF: W-2



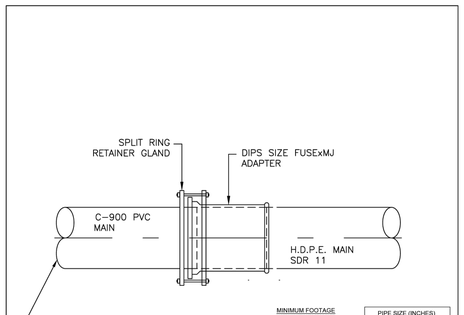
NOTES:

1. TAPPING SLEEVES SHALL BE ALL STAINLESS STEEL i.e. ROMAC INDUSTRIES, INC. MODEL SST.
2. INSTALL REQUIRED RESTRAINED JOINTS. IN NO INSTANCE SHALL THRUST BLOCK BE PERMITTED.
3. ALL TAPPING OF MAINS SHALL BE SUPERVISED BY THE CITY 48 HRS ADVANCE NOTICE PROVIDED.
4. TAPPING ASSEMBLY TO BE TESTED AT 150 p.s.i. FOR 10 MINUTES PRIOR TO PERFORMING TAP.

2011-06-30	STANDARD CONSTRUCTION DETAIL TAPPING VALVE AND SLEEVE	FILE NAME: EW_W3.DWG DETAIL REF: W-3



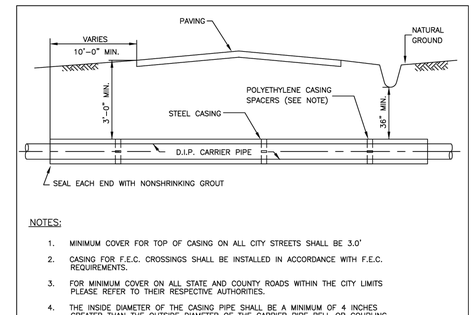
2017-10-24	STANDARD CONSTRUCTION DETAIL WATER LATERAL SERVICE (3/4" – 2" SIZES)	FILE NAME: EW_W5.DWG DETAIL REF: W-5



MINIMUM FOOTAGE OF PIPE RESTRAINT		PIPE SIZE (INCHES)					
		4	6	8	12	16	20
11-1/4°	H-B	1	2	2	3	3	4
	VU-B	3	4	5	7	9	11
	VD-B		AF	AF	AF	2	2
22-1/2°	H-B	3	4	5	7	7	8
	VU-B	6	8	10	15	19	23
	VD-B		AF	2	3	3	4
45°	H-B	6	8	10	14	14	17
	VU-B		17	22	30	39	47
	VD-B						
90°	H-B	2	3	4	5	7	9
	VU-B		19	25	34	34	41
	VD-B						
TEE							
DEAD END PLUG							
REDUCER	H-B	24	34	44	62	62	76

H-B: HORIZONTAL BEND
VU-B: VERTICAL-UP BEND
VD-B: VERTICAL-DOWN BEND

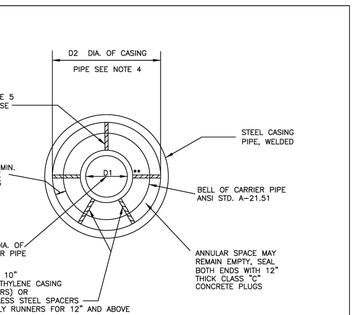
2017-10-24	STANDARD CONSTRUCTION DETAIL P.V.C. TO H.D.P.E. RESTRAINED JOINT DETAIL	FILE NAME: EW_W7.DWG DETAIL REF: W-7



NOTES:

1. MINIMUM COVER FOR TOP OF CASING ON ALL CITY STREETS SHALL BE 3.0'
2. CASING FOR F.E.C. CROSSINGS SHALL BE INSTALLED IN ACCORDANCE WITH F.E.C. REQUIREMENTS.
3. FOR MINIMUM COVER ON ALL STATE AND COUNTY ROADS WITHIN THE CITY LIMITS PLEASE REFER TO THEIR RESPECTIVE AUTHORITIES.
4. THE INSIDE DIAMETER OF THE CASING PIPE SHALL BE A MINIMUM OF 4 INCHES GREATER THAN THE OUTSIDE DIAMETER OF THE CARRIER PIPE BELL OR COUPLING.
5. USE POLYETHYLENE CASING SPACERS FOR ALL CARRIER PIPES PER MANUFACTURES RECOMMENDATIONS.
6. ROTATION OF CARRIER PIPE INSIDE THE CASING PIPE WILL NOT BE PERMITTED. MECHANICAL OR FLANGED JOINT PIPE SHALL BE USED TO HELP PREVENT SUCH ROTATION.
7. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF CASING AND CARRIER PIPE INSTALLATION FOR APPROVAL PRIOR TO FABRICATION OF PIPING, CASING, AND APPURTENANCES. CERTIFICATION OF CASING PIPE IS REQUIRED.
8. GROUTING OF SPACE BETWEEN CASING AND CARRIER PIPE REQUIRED UNLESS NEGATIVE FLOTATION EXISTS.
9. WELDING OF CASING PIPE TO BE DONE BY CERTIFIED WELDER. ALL ENDS OF CASING PIPE SHALL BE CHAMFERED PRIOR TO ANY WELDING.
10. SEALING END OF CASING PIPE WITH CONCRETE IS ALSO PERMISSIBLE.
11. CARRIER PIPE SHALL BE RESTRAINED JOINT THROUGH ENTIRE LENGTH OF CASING PIPE.
12. FOR GRAVITY CARRIER PIPE SYSTEM, ENTIRE ANNULAR SPACE BETWEEN CARRIER PIPE AND CASING PIPE SHALL BE GROUTED.

2011-06-30	STANDARD CONSTRUCTION DETAIL CONDUIT CROSSING R.R. OR ROADWAY	FILE NAME: EW_W12.DWG DETAIL REF: W-12

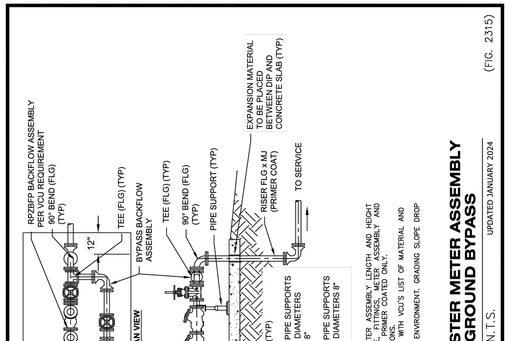


CARRIER PIPE AND CASING PIPE SIZES (MIN.)														
CARRIER PIPE NOM. DIA. (D1)	4	6	8	10	12	14	16	18	20	24	30	36	42	48
CASING PIPE NOM. DIA. (D2)	14	16	18	22	24	30	30	36	36	48	54	60	66	
WALL THICKNESS–INCHES (NOTES 4&5)	PER AUTHORITY HAVING JURISDICTION													

NOTES:

1. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF CASING INSTALLATION TO ENGINEER FOR REVIEW PRIOR TO INSTALLATION
2. SEAL BOTH ENDS OF CASING W/ 12" BRICK AND NON-SHRINK GROUT (MINIMUM)
3. ROTATION OF CARRIER PIPE INSIDE THE CASING WILL NOT BE PERMITTED
4. WITHIN EDGEWATER R/W USE CURRENT FDOT STANDARDS
5. SPECIALLY DESIGNED SPACERS MAY BE USED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

2011-06-30	STANDARD CONSTRUCTION DETAIL CONDUIT CROSSING R.R. OR ROADWAY	FILE NAME: EW_W13.DWG DETAIL REF: W-13



NOTES:

1. THE CONTRACTOR SHALL CONTACT THE UTILITIES INSPECTOR FOR EXACT METER ASSEMBLY LENGTH AND HEIGHT REQUIREMENTS. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL PIPE, FITTINGS, METER ASSEMBLY AND APPURTENANCES AS SHOWN ON THIS DETAIL. ALL PIPE, FITTINGS AND APPURTENANCES SHALL BE FREE FROM DEFECTS AND SHALL BE CLEANED AND PAINTED, IN ACCORDANCE WITH VOU UTILITY SPECIFICATIONS.
2. ALL MATERIALS AND APPURTENANCES SHALL BE IN ACCORDANCE WITH VOU'S LIST OF MATERIAL AND APPROVED MANUFACTURERS.
3. DIMENSIONS FOR METER ASSEMBLY TO BE FIELD VERIFIED.
4. FINISH GRADE AROUND METER ASSEMBLY TO BE SLOPED AWAY FROM METER ASSEMBLY TO ENSURE A SAFE WORK ENVIRONMENT. GRADING SLOPE DROP SHALL NOT EXCEED 4:1 SLOPE.
5. SENSUS OMNI METER WITH RADIO READ CAPABILITY
6. FLOW STRAIGHTENER REQUIRED FOR TURBINE METER

2" AND LARGER MASTER METER ASSEMBLY WITH ABOVE-GROUND BYPASS

(FIG. 2315)

N.T.S. UPDATED JANUARY 2024

VOL. UTL. STD.

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CONSTRUCTION PLAN REVISIONS

1	03/29/24	REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
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3	06/19/24	REVISED PER CITY OF EDGEWATER COMMENTS
4	07/15/24	REVISED PER CITY OF EDGEWATER COMMENTS

YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

WATER DETAILS

Engineering Business Certificate of Authorization No. 32771
Florida Certificate of Authorization No. LC26006638

BRANDON D. MACHIELA
FLORIDA LICENSED PROFESSIONAL ENGINEER
REGISTRATION NUMBER 90686

PROJECT No. 199-01-01

SHEET C 11.0

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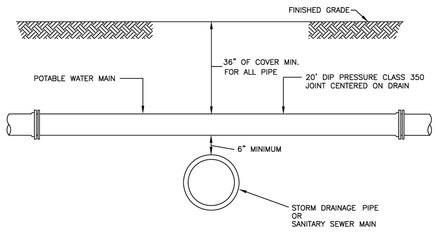
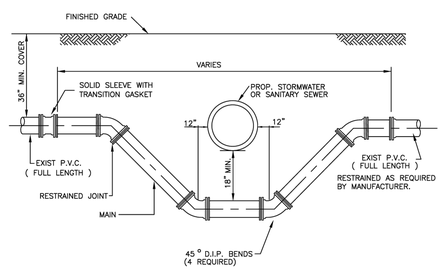


NOTE:

1. CONCRETE ENCASEMENT OF A SANITARY SEWER MAIN IS AN ALTERNATIVE METHOD OF ADDRESSING A CONFLICT WHEN 18" VERTICAL SEPARATION DISTANCE CANNOT BE MAINTAINED. IN SUCH INSTANCES, THE MINIMUM PIPE VERTICAL SEPARATION SHALL BE 6".

EDGEWATER 2011–06–30	STANDARD CONSTRUCTION DETAIL STORM DRAINAGE PIPE OR SANITARY SEWER MAIN CONFLICT	FILE NAME: EW_W14.DWG DETAIL REF: W–14

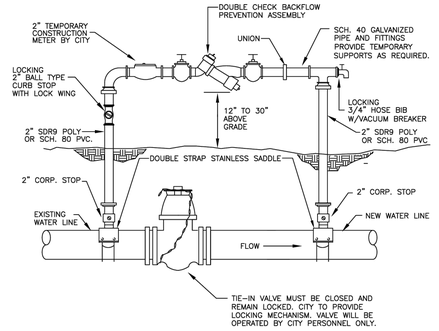
CONCRETE ENCASEMENT OF SANITARY SEWER IS AN ALTERNATIVE METHOD OF ADDRESSING A CONFLICT WHEN UNABLE TO MAINTAIN 18" VERTICAL SEPARATION DISTANCE. IN SUCH INSTANCES, THE MINIMUM PIPE VERTICAL SEPARATION SHALL BE 6".



NOTES:

1. LOWERING OF EXISTING WATER MAIN & FORCE MAIN BY DEFLECTION METHOD ACCEPTABLE IF EXISTING FIELD CONDITIONS PERMIT.
2. LENGTH OF SECTION BASED ON MINIMUM LENGTH AS DETERMINED BY DIPRA RESTRAINED JOINT MANUAL.
3. INSTALL RESTRAINED JOINTS, AS REQUIRED, FROM DEFLECTION POINT IN BOTH DIRECTIONS.

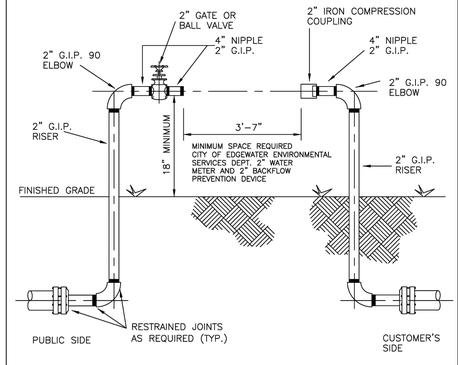
EDGEWATER 2011–06–30	STANDARD CONSTRUCTION DETAIL STORM DRAINAGE PIPE OR SANITARY SEWER MAIN CONFLICT	FILE NAME: EW_W15.DWG DETAIL REF: W–15



NOTES:

1. PROVIDE SUPPORT AND/OR PROTECTIVE MEASURES TO PREVENT ABOVE GROUND PIPE BEING BROKEN.

EDGEWATER 2011–06–30	STANDARD CONSTRUCTION DETAIL TEMPORARY JUMPER CONNECTION	FILE NAME: EW_W20.DWG DETAIL REF: W–20



NOTE:

1. PROVIDE SUPPORT OR PROTECTIVE POSTS.

EDGEWATER 2011–06–30	STANDARD CONSTRUCTION DETAIL CONTRACTORS' INSTALLATION REQUIREMENTS FOR A 2" TEMPORARY METER	FILE NAME: EW_W21.DWG DETAIL REF: W–21

POTABLE WATER DESIGN AND CONSTRUCTION NOTES

1. THE CITY'S PUBLIC UTILITIES DEPARTMENT (424–2460) SHALL BE GIVEN A MINIMUM OF 48 HOURS ADVANCE NOTICE (NOT INCLUDING HOLIDAYS OR WEEKENDS) PRIOR TO BEGINNING ANY POTABLE WATER SYSTEM CONSTRUCTION.
2. DEWATERING SHALL BE PROVIDED TO KEEP GROUNDWATER ELEVATION A MINIMUM OF 6 INCHES BELOW WATER MAIN BEING LAID
3. ALL WATER MAINS SHALL BE LAID ON A FIRM FOUNDATION WITH ALL UNSUITABLE MATERIAL (MUCK, ROCK, COQUINA, ETC.) REMOVED AND REPLACED WITH CLEAN GRANULAR MATERIAL.
4. TRENCHES SHALL BE BACKFILLED WITH MATERIAL ACCEPTABLE TO THE CITY WITH A MINIMUM COMPACTION OF 98% IN PAVED AREAS AND 95% IN UNPAVED AREAS IN ACCORDANCE WITH AASHTO T–180.
5. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT TRENCH COMPACTION TESTS BE PROVIDED AT POINTS 1 FOOT ABOVE THE PIPE AND AT 1 FOOT VERTICAL INTERVALS TO FINISH GRADE, AT A MINIMUM SPACING OF EVERY 300 FEET.
6. 3" METALLIZED PIPE LOCATION TAPE SHALL BE LOCATED BETWEEN 15" AND 24" BELOW FINISHED GRADE OR AS SPECIFIED BY MANUFACTURER FOR ALL PVC LINES. MARKER TAPE SHALL BE USED ON ALL DUCTILE IRON PIPE, AND 12 GUAGE TRACING WIRE AS WELL.
7. ALL SINGLE RESIDENTIAL WATER SERVICES SHALL BE 3/4", DOUBLE RESIDENTIAL SERVICES SHALL BE 1", AND COMMERCIAL SERVICES 1–1/2" OR 2". POLYETHYLENE TUBING SHALL BE USED, IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:
   POLYETHYLENE TUBING SHALL BE CTS 3408 HIGH DENSITY TUBING, BLUE IN COLOR, AND RATED FOR A MINIMUM OF 200 P.S.I. WITH SDR OF 9 (CTS). THE TUBING SHALL HAVE A VIRGIN HIGH DENSITY POLYETHYLENE CENTER FOR WHICH THE MANUFACTURER SHALL FURNISH A CERTIFICATE OF PURITY. THE TUBING SHALL HAVE UV PROTECTION AND SHALL NOT BE AFFECTED BY DIRECT SUNLIGHT. THE TUBING SHALL COMPLY WITH OR EXCEED THE APPLICABLE STANDARDS OF A.S.T.M. D1248, D3350, D2239, D2737, N.S.F. 14 AND A.W.W.A. C901 AND SHALL COME WITH A LIFETIME WARRANTY.
   ACCEPTABLE MANUFACTURERS: ENDOT ENDO PURE OR APPROVED EQUAL
8. ALL WATER SERVICE ENDINGS SHALL BE MARKED WITH A 2" X 4" LUMBER (PRESSURE TREATED) EXTENDING 4 FEET ABOVE GRADE, WITH WATER SERVICES SECURED 12" MAXIMUM ABOVE THE GROUND AND ANY "U" BRANCHES FOR DOUBLE SERVICES SHALL BE AT GROUND LEVEL. ALL SERVICES SHALL BE LOCKED.
9. WATER VALVES SHALL BE PLACED AT ALL STREET INTERSECTIONS AND AT MAXIMUM SPACINGS OF 750 FEET.
10. AT ALL WATER MAIN TEES AND CROSSES, VALVES SHALL BE INSTALLED ON ALL LEGS EXCEPT ONE.
11. APPROVED WATER VALVE TYPES ARE THE FOLLOWING:
    A. RESILIENT SEAT GATE VALVES 24" DIAMETER AND SMALLER (AWWA C–509)
    B. BUTTERFLY VALVES GREATER THAN 24" (AWWA C–504)
    C. TAPPING VALVES WITH MECHANICAL TAPPING SLEEVE.
12. ALL WATER VALVES SHALL BE ADJUSTED TO FINISHED GRADE WITH CONCRETE COLLARS AND THE CAPS PAINTED BLUE TO MAKE THEM PLAINLY VISIBLE.
13. UPON FINAL ACCEPTANCE OF NEW WATER SYSTEMS, WATER VALVES SHALL BE COMPLETELY OPENED BY PUBLIC UTILITIES PERSONNEL. AT NO TIME SHALL CONTRACTOR OPERATE ANY EXISTING VALVES.
14. TYPICALLY, A MINIMUM OF ONE FIRE HYDRANT SHALL BE LOCATED AT EVERY INTERSECTION. OTHER FIRE HYDRANTS SHALL BE LOCATED SO AS TO PRODUCE A MAXIMUM 375 FEET HOSE LAY ALONG THE STREET FOR ALL RESIDENTIAL BUILDINGS.

EDGEWATER 2011–06–30	STANDARD CONSTRUCTION DETAIL POTABLE WATER DESIGN AND CONSTRUCTION NOTES	FILE NAME: EW_W22.DWG DETAIL REF: W–22

POTABLE WATER DESIGN AND CONSTRUCTION NOTES (CONTD.)

15. ALL FIRE HYDRANTS SHALL BE CONSTRUCTED TO MAKE THEM EASILY ACCESSIBLE TO FIRE PERSONNEL IN CASE OF A FIRE. THE PRIMARY HYDRANT PORT SHOULD ALWAYS FACE THE STREET.
16. AS STANDARD PRACTICE, WATER MAINS SHALL BE INSTALLED 4 FEET OFF THE BACK OF CURB OR AS APPROVED BY THE CITY.
17. ALL WATER MAINS SHALL BE NSF–APPROVED FOR POTABLE WATER USE, AND SHALL HAVE A MINIMUM COVER OF 36 INCHES.
18. ALL PROPOSED WATER MAINS SHALL BE FLUSHED, DISINFECTED AND BACTERIOLOGICALLY CLEARED FOR SERVICE IN ACCORDANCE WITH THE LATEST AWWA STANDARDS AND THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS.
19. WATER MAINS SHALL BE C–900 PVC OR C–905 CL. 150 (COLOR"BLUE") OR D.I.P. PRESSURE CLASS 350 STANDARD CEMENT LINED UNLESS OTHERWISE APPROVED BY THE CITY.
20. UPON CONSTRUCTION COMPLETION AND ACCEPTANCE OF THE SYSTEM, IT SHALL BE THE DESIGN ENGINEER'S RESPONSIBILITY TO ENSURE THAT THE SYSTEM IS PROPERLY CERTIFIED AND ACCEPTED BY THE DEPARTMENT OF HEALTH AND AS–BUILTS ARE PROVIDED TO THE CITY PRIOR TO ANY USE OF THIS SYSTEM .
21. WATER DISTRIBUTION SYSTEM SHALL BE DESIGNED TO COMPLY WITH THE CITY'S FIRE (WATER) FLOW CODE.
22. IN AREAS WHERE RECLAIMED WATER IS NOT AVAILABLE THE CONTRACTOR SHALL BE REQUIRED TO (UPON SATISFACTORY COMPLETION OF THE PRESSURE TEST) TRANSFER THE WATER FROM THE POTABLE WATER LINES TO THE RECLAIMED WATER LINES FOR UTILIZATION IN THEIR PRESSURE TEST.
23. IN AREAS WHERE RECLAIMED WATER IS AVAILABLE, RECLAIMED WATER WILL BE UTILIZED IN THE PRESSURE TESTING OF NEW RECLAIMED WATER LINES.
24. ALL POTABLE WATER MAINS SHALL USE A THRUST RESTRAINT JOINT METHOD IN COMPLIANCE WITH THE DUCTILE IRON PIPE RESEARCH ASSOCIATION (DIPRA) GUIDELINES. IN THE EVENT THAT PVC FITTINGS ARE SPECIFIED, THE RESTRAINT SHALL BE MODIFIED IN ACCORDANCE WITH THE RECOMMENDED ADDITIONAL RESTRAINT LENGTH REQUIRED FOR PIPE WRAPPED WITH POLYETHYLENE.
25. MEGALUGS, BOLTLESS RESTRAINED JOINTS, GRIPPER GASKETS, OR STAR GRIPS SHALL BE USED ON ALL RESTRAINED JOINT INSTALLATIONS. MINIMUM DEPTH OF BURY ON PIPES NOT MEETING REQUIRED COVER REQUIREMENTS SHALL FOLLOW THE MOST RECENT DIPRA THRUST RESTRAINT DESIGN GUIDELINES.
26. GRIPPER RING GASKETS BY ROMAC AND OR STAR AU–GRIP MAY BE USED AS APPROPRIATE FOR RESTRAINING PRESSURE PIPE TO FITTINGS, VALVES, ETC.
27. WATER SYSTEMS SHALL BE PRESSURE TESTED AT 150 PSI STATIC PRESSURE FOR A PERIOD OF 4 HOURS PER AWWA STANDARDS.
28. ALL WATER SERVICES SHALL BE MARKED WITH AN "/\" SAW CUT INTO THE CURB AND METAL TABS SET INTO THE PAVEMENT.
29. ALL WATER VALVES SHALL BE MARKED WITH AN "X" SAW CUT INTO THE CURB AND METAL TABS SET INTO THE PAVEMENT. BLOW–OFFS SHALL BE MARKED SIMILARLY, AS WELL.
30. WATER SERVICES SHALL BE NORMALLY DOUBLE 1" SERVICES LOCATED AT SIDE LOT LINES. IN INSTANCES WHERE SERVICES NEED TO BE OFFSET, 3/4" SINGLE SERVICES SHALL BE SPECIFIED. THESE SERVICES MAY BE OFFSET A MAXIMUM OF 2.0' FROM SIDE LOT LINES.
31. ALL TAPPING OF MAINS SHALL BE SUPERVISED BY THE CITY SCHEDULING OF THESE CONNECTIONS SHALL REQUIRE A MINIMUM 48 HOUR NOTIFICATION (MEASURED ON NORMAL WORK DAYS) DIRECTED TO THE CITY'S DESIGNATED SITE INSPECTOR. THE CONNECTION SHALL BE SCHEDULED TO COMMENCE BETWEEN 8:00 A.M. AND NOON ON THE APPROPRIATE DAY.

EDGEWATER 2011–06–30	STANDARD CONSTRUCTION DETAIL POTABLE WATER DESIGN AND CONSTRUCTION NOTES	FILE NAME: EW_W23.DWG DETAIL REF: W–23

POTABLE WATER DESIGN AND CONSTRUCTION NOTES (CONTD.)

32. ALL PROPOSED POTABLE WATER MAINS SHALL BE FLUSHED, DISINFECTED, PRESSURE TESTED AND BACTERIOLOGICALLY CLEARED FOR SERVICE WHEN APPROPRIATE IN ACCORDANCE WITH THE LATEST AWWA STANDARDS AND THE FLORIDA DEPARTMENT OF ENVIROMENTAL PROTECTION REQUIREMENTS. THE CONTRACTOR SHALL NOTIFY THE CITY'S DESIGNATED SITE INSPECTOR WHO SHALL COORDINATE WITH CITY PERSONNEL AT THE WATER TREATMENT PLANT AT LEAST 48 HOURS PRIOR TO BEGINNING FLUSH OF THE MAINS PRIOR TO THE COMMENCEMENT OF PRESSURE TESTING.
33. THE CONTRACTOR SHALL BE REQUIRED TO PIG ALL POTABLE MAINS IN EXCESS OF 8" IN DIAMETER AND PRIMARY DISTRIBUTION MAINS LOCATED ON COLLECTOR AND ARTERIAL ROADWAYS. LAUNCHING AND EXTRACTION POINTS SHALL BE DETERMINED BY THE CONTRACTOR.
34. WITH RESPECT TO TIE–IN CONNECTIONS , THE CITY RESERVES THE RIGHT TO REQUIRE CONNECTIONS TO BE PERFORMED DURING PERIODS OF LOW FLOW (MIDNIGHT to 6:00 A.M.) IN ORDER TO MINIMIZE SERVICE DISRUPTION TO EXISTING CUSTOMERS.
35. ALL WORK PERFORMED UPON POTABLE WATER FACILITIES OWNED OR PROPOSED TO BE OWNED BY THE CITY SHALL BE CONSTRUCTED BY AN UNDERGROUND UTILITY CONTRACTOR OR GENERAL CONTRACTOR LICENSED IN THE STATE OF FLORIDA AND REGISTERED WITH THE CITY.
36. FOR CONSTRUCTION PURPOSES, THE PLANS SHALL DIMENSION THE PROPOSED LOCATIONS OF ALL WATER MAINS MEASURED FROM THE BACK OF CURB (OR EDGE OF PAVEMENT, IF NO CURB IS USED).
37. POTABLE WATER SYSTEM EXTENSIONS MAY NOT BE USED PRIOR TO FINAL TESTING, CLEARANCE AND ACCEPTANCE BY THE CITY OF EDGEWATER. THIS INCLUDES CONSTRUCTION WATER REQUIRED FOR SEWER LINE CLEANING OR RELATED USES.
38. ALL H.D.P.E. PIPE UTILIZED FOR WATER, FORCE MAIN AND/OR RECLAIMED WATER MAIN EXTENSIONS SHALL BE S.D.R. 11 UNLESS SPECIFICALLY NOTED OTHERWISE. THE HDPE PIPE SHALL BE SIZED TO MATCH THE EXTERNAL DIAMETER OF THE PVC OR DIP PIPE TO WHICH IT IS ATTACHED.
39. LANDSCAPE PLANS SHALL CLEARLY DEPICT THE DESIGN LOCATION OF PLANTINGS RELATIVE TO THE LOCATION OF PUBLIC UTILITIES AND STORMWATER INFRASTRUCTURE IN ORDER TO EVALUATE POTENTIAL CONFLICTS.
40. ALL VALVES 2" AND LARGER SHALL BE STANDARD 2" BOX VALVES (CORP STOPS ARE NOT ACCEPTABLE).
41. WHERE POTABLE WATER AND SANITARY SEWER MAINS CROSS WITH LESS THAN EIGHTEEN (18) INCHES OF VERTICAL CLEARANCE OR WHERE THE SEWER MAIN IS ABOVE THE WATER MAIN, THE SEWER MAIN SHALL BE ENCASED WITH CONCRETE OR ENCLOSED IN A WATER TIGHT CARRIER PIPE, OR UPGRADED TO DUCTILE IRON PIPE OR PRESSURE RATED PVC PIPE (MEETING THE AWWA C–900 OR C905 SPECIFICATION) FOR A MINIMUM LENGTH OF (20) FEET, CENTERED ON THE POINT OF CROSSING. A MINIMUM HORIZONTAL SEPARATION OF (10) TEN FEET (EDGE TO EDGE) BETWEEN POTABLE WATER MAINS AND SEWER MAINS SHALL BE MAINTAINED WHEN AT ALL POSSIBLE. WHEN THE 10–FOOT HORIZONTAL SEPARATION CANNOT BE MAINTAINED THE WATER MAIN SHALL BE INSTALLED IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF AT LEAST 18" ABOVE THE SEWAGE MAIN. ALTERNATIVELY, THE SEWER MAIN SHALL BE ENCASED WITH CONCRETE OR ENCLOSED IN A WATER TIGHT CARRIER PIPE, OR UPGRADED TO DUCTILE IRON PIPE OR PRESSURE RATED PVC PIPE (MEETING THE AWWA C–900 OR C–905 SPECIFICATION) AND PRESSURE TESTED.

EDGEWATER 2011–06–30	STANDARD CONSTRUCTION DETAIL POTABLE WATER DESIGN AND CONSTRUCTION NOTES	FILE NAME: EW_W24.DWG DETAIL REF: W–24

TECHNICAL SPECIFICATIONS FOR MECHANICAL JOINT DUCTILE IRON PIPE FITTINGS

ALL MECHANICAL JOINT DUCTILE IRON PIPE FITTINGS SHALL BE IN ACCORDANCE WITH ACCEPTABLE STANDARDS AND COMPLY WITH THE FOLLOWING SPECIFICATIONS:

MATERIAL:
A.S.T.M. A536 MINIMUM GRADE 70–50–5 IN ACCORDANCE WITH A.W.W.A. C153 (A.N.S.I. A21.53)

PRESSURE:
CLASS 350 IN ACCORDANCE WITH A.W.W.A. C153 (A.N.S.I. A21.53) 350 PSI WATER WORKING PRESSURE.

TESTING:
IN ACCORDANCE WITH A.W.W.A. C153 (ANSI A21.53). THREE TIMES WATER WORKING PRESSURE (350 PSI). BODY CAPABLE OF WITHSTANDING HYDROSTATIC TEST OF 1050 PSI.

FLOW:
I.D. EQUAL TO I.D. OF CLASS 50/51 DUCTILE IRON PIPE, THUS ALLOWING THE FULL FLOW FEATURE.

LAYING LENGTH:
SHORT BODY (COMPACT)

CEMENT LINING:
IN ACCORDANCE WITH A.W.W.A. C104 (A.N.S.I. A21.4)

MECHANICAL JOINTS:
IN ACCORDANCE WITH A.N.S.I./A.W.W.A. C111/A21.11

GASKETS:
SBR IN ACCORDANCE WITH A.W.W.A. C111 A.N.S.I. A21.11

TEE HEAD BOLTS:
COR–TEN IN ACCORDANCE WITH A.W.W.A. C111 (A.N.S.I. A21.11)

ACCEPTABLE MANUFACTURERS:
TYLER, CLOW, GRIFFIN, U.S. PIPE, UNION FOUNDRY, AMERICAN CAST IRON OR APPROVED EQUAL

EDGEWATER 2011–06–30	STANDARD CONSTRUCTION DETAIL TECHNICAL SPECIFICATIONS FOR MECHANICAL JOINT DUCTILE IRON PIPE FITTINGS	FILE NAME: EW_W25.DWG DETAIL REF: W–25

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YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

WATER DETAILS

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BRANDON D. MACHIELA
LICENSE NO. 90686 STATE OF FLORIDA
PROFESSIONAL ENGINEER

BRANDON D. MACHIELA
FLORIDA LICENSED PROFESSIONAL ENGINEER
REGISTRATION NUMBER 90686

PROJECT No. 199-01-01

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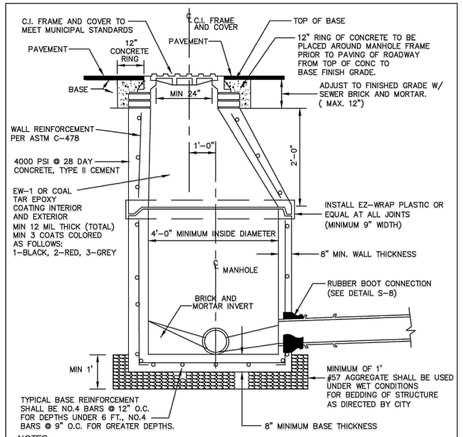


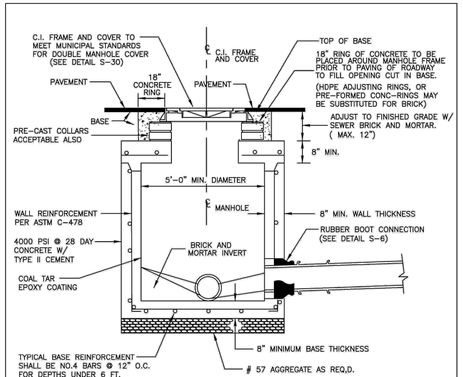
NOTES:

1. ON TRANSITIONS BETWEEN LARGER DIAMETER AND SMALLER SEWER COLLECTORS, OUTVERTS OF SEWERS SHALL BE MATCHED.
2. NON-PENETRATING PICK-HOLES IN ALL CONCRETE SECTIONS.
3. USE FARBERTITE BITUMASTIC SEALER BETWEEN SECTIONS OF MANHOLES.
4. 0.1" - DROP ACROSS MANHOLE TYP.
5. ALL MANHOLE TROUGHS AND BENCHES ARE TO BE EPOXY PAINTED BEFORE FINAL INSPECTION.
6. LAST MANHOLE UPSTREAM OF A LIFT STATION MUST BE LINED W/ SPECTRA SHIELD OR EQUAL.

EDGEWATER 2023-01-25

STANDARD CONSTRUCTION DETAIL
STANDARD MANHOLE DETAIL

FILE NAME: EW_S1.DWG
DETAIL REF: S-1



SECTION - SHALLOW MANHOLE
USE FOR MANHOLES OF 5'-0" OR LESS IN DEPTH

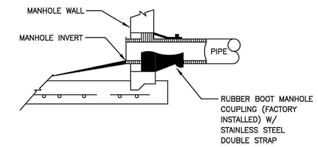
NOTES:

1. INSTALL EZ-WRAP PLASTIC OR EQUAL AT ALL JOINTS (MINIMUM 9" WIDTH).
2. NON-PENETRATING PICK-HOLES IN ALL CONCRETE SECTIONS.
3. USE FARBERTITE BITUMASTIC SEALER BETWEEN SECTIONS OF MANHOLE.

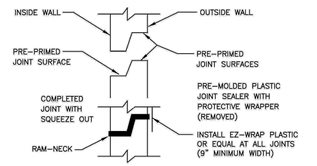
EDGEWATER 2023-01-25

STANDARD CONSTRUCTION DETAIL
SHALLOW MANHOLE

FILE NAME: EW_S3.DWG
DETAIL REF: S-3



MANHOLE PIPE CONNECTION DETAIL
FOR NEW CONNECTIONS IN EXISTING MANHOLES



PRECAST JOINT CONNECTION

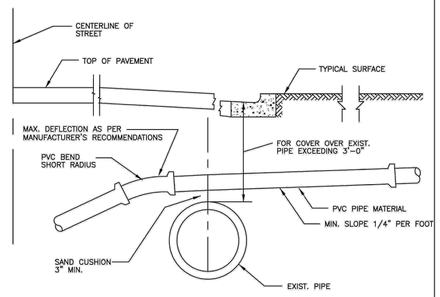
NOTES:

1. ALL NEW CONNECTIONS TO EXISTING SANITARY SEWER MANHOLES SHALL UTILIZE A CORING METHOD AND THE IN-FIELD INSTALLATION OF A RUBBER BOOT INTO THE MANHOLE.

EDGEWATER 2023-01-25

STANDARD CONSTRUCTION DETAIL
RUBBER BOOT AND PRECAST JOINT CONNECTION DETAIL

FILE NAME: EW_S8.DWG
DETAIL REF: S-8



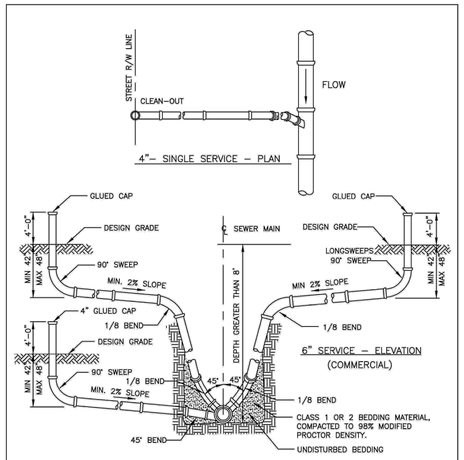
ALTERNATE GRADIENT FOR HOUSE SERVICE SEWERS AT CONFLICTS WITH EXISTING STORM SEWERS & OTHER EXISTING CONDUITS

APPROVED PIPE MATERIALS-PVC (SDR 26)

EDGEWATER 2023-01-25

STANDARD CONSTRUCTION DETAIL
SEWER LINE UTILITY CROSSING DETAIL

FILE NAME: EW_S9.DWG
DETAIL REF: S-9



NOTES:

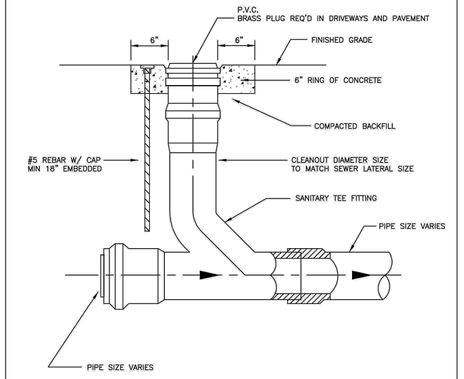
1. USE OF STYRENE MATERIAL WILL NOT BE PERMITTED.
2. ALL JOINTS TO BE RUBBER GASKET (NO GLUED FITTINGS) TYPICAL.
3. USE ALL HARCO SDR-26 FITTINGS OR CITY APPROVED EQUAL.

4" - RESIDENTIAL
6" - COMMERCIAL

EDGEWATER 2023-01-25

STANDARD CONSTRUCTION DETAIL
SEWER LATERAL DETAIL
(SINGLE 4" RESIDENTIAL)
(SINGLE 6" COMMERCIAL)

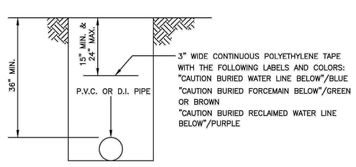
FILE NAME: EW_S10.DWG
DETAIL REF: S-10



EDGEWATER 2023-01-25

STANDARD CONSTRUCTION DETAIL
CLEANOUT DETAIL

FILE NAME: EW_S12.DWG
DETAIL REF: S-12



"TERRA TAPE D" or SIMILAR

EDGEWATER 2023-01-25

STANDARD CONSTRUCTION DETAIL
LOCATOR TAPE INSTALLATION FOR SEWER, WATER AND RECLAIMED WATER PIPELINES

FILE NAME: EW_S13.DWG
DETAIL REF: S-13

SANITARY SEWER DESIGN AND CONSTRUCTION NOTES

1. THE CITY'S ENVIRONMENTAL SERVICES DEPT. (424-2476) SHALL BE GIVEN A MINIMUM OF 48 HOURS ADVANCE NOTICE (NOT INCLUDING HOLIDAYS OR WEEKENDS) PRIOR TO BEGINNING ANY SANITARY SEWER CONSTRUCTION.
2. ALL GRAVITY SANITARY SEWER MAIN LINES SHALL BE 8" DIAMETER MINIMUM. COMMERCIAL SERVICE LATERALS WITH MULTIPLE CONNECTIONS SHALL BE GREEN 6" DIA. OR LARGER. ALL SINGLE FAMILY RESIDENTIAL SERVICE LATERALS SHALL BE 4" - SINGLE SERVICES.
3. ALL GRAVITY SANITARY SEWER LINES SHALL BE GREEN PVC SDR 26, ASTM D-3034. IN PLACES WHERE A MINIMUM COVER OF 4.0' CANNOT BE MAINTAINED, AWWA C-900 OR C-905 GREEN PVC DR-25, CLASS 100 OR CONCRETE ENCASEMENT SHALL BE USED. WATER LINES, RECLAIMED LINES, AND STORM DRAINAGE CROSSINGS SHALL ALSO FOLLOW THE CONCRETE ENCASEMENT REQUIREMENT PER THESE STANDARDS AND AS PER REGULATORY REQUIREMENTS.
4. MINIMUM GRAVITY SANITARY SEWER SLOPES ARE AS FOLLOWS:
   8" PIPE 0.40%
   10" PIPE 0.30%
   12" PIPE 0.22%
5. GRAVITY SANITARY SEWER LINES SHALL BE INSTALLED WHENEVER POSSIBLE UNDER PAVED AREAS WITHIN PUBLIC RIGHTS-OF-WAY. UTILITY EASEMENTS SHALL BE PROVIDED WHENEVER PUBLICLY-OWNED SEWER LINES ARE CONSTRUCTED OUTSIDE OF A PUBLIC RIGHT-OF-WAY.
6. GRAVITY SANITARY SEWER LINE CONSTRUCTION SHALL BE ACCOMPLISHED BY THE USE OF A LASER INSTRUMENT UNLESS ANOTHER METHOD IS PREVIOUSLY APPROVED BY THE CITY.
7. THE CONTRACTOR SHALL AT ALL TIMES, DURING PIPE LAYING OPERATIONS, DEWATER THE GROUND SUFFICIENTLY TO KEEP THE GROUNDWATER ELEVATION A MINIMUM OF 6" BELOW THE PIPE BEING LAID WITHIN THE AREA OF THE TRENCH.
8. ALL PIPES SHALL BE LAID ON A FIRM FOUNDATION. SOFT OR SPONGY BEDDING FOR PIPES IS NOT ACCEPTABLE. ANY UNSUITABLE MATERIAL SHALL BE REMOVED AND REPLACED WITH A DRY, COMPACTED, GRANULAR MATERIAL SATISFACTORY TO THE CITY.
9. ON ALL EXCAVATION AND BACKFILLING THE CONTRACTOR SHALL PROVIDE ADEQUATE SHEETING AND BRACING IN ORDER TO PROVIDE FOR THE SAFETY OF WORKMEN, AS WELL AS REPRESENTATIVES OF THE CITY, THE DESIGN ENGINEER, AND THE DEVELOPER.
10. ALL TRENCHES SHALL BE BACKFILLED WITH ACCEPTABLE MATERIAL AND COMPACTED TO THE SPECIFIED MINIMUM COMPACTION (95% IN UNPAVED AREAS AND 98% IN PAVED AREAS) OF THE OPTIMUM DENSITY OF THAT MATERIAL BASED ON THE AASHTO T-180 MODIFIED PROCTOR TEST.
11. THE CONTRACTOR SHALL EMPLOY AN INDEPENDENT TESTING LABORATORY AT HIS OWN EXPENSE TO INSURE THAT COMPACTION OF ALL FILL MATERIAL IS COMPLETED PROPERLY. TESTS SHALL BE DONE ONE FOOT ABOVE THE PIPE AND THEN AT ONE FOOT VERTICAL INTERVALS UNTIL FINAL GRADE IS REACHED. TESTING SHALL BE COMPLETED AND TEST DOCUMENTS SUBMITTED TO THE CITY AT A MINIMUM FREQUENCY OF ONE SET OF TESTS BETWEEN EACH MANHOLE AND ONE ADDITIONAL SET OF TESTS AT EVERY MANHOLE. IDENTIFICATION OF TEST LOCATIONS SHALL BE CLEARLY INDICATED ON TEST REPORTS. TEST RESULTS SHALL BE FORWARDED PROMPTLY TO THE CITY'S DESIGNATED SITE INSPECTOR.
12. THE CONTRACTOR SHALL INSTALL A METALLIZED FOIL LOCATOR TAPE, OR SIMILAR DEVICE AS MAY BE APPROVED BY THE CITY FOR THE FULL LENGTH OF ALL PVC SEWAGE FORCE MAINS. THIS PIPE LOCATOR AID SHALL BE INSTALLED BETWEEN 15" AND 24" BELOW FINISHED GRADE OR AS DIRECTED BY THE MANUFACTURER. TAPE SHALL BE COLOR CODED GREEN FOR SANITARY SEWER AND FORCE MAIN. INSTALL 12 GUAGE TRACING WIRE IN TRENCH.

EDGEWATER 2023-01-25

STANDARD CONSTRUCTION DETAIL
SANITARY SEWER DESIGN AND CONSTRUCTION NOTES

FILE NAME: EW_S23.DWG
DETAIL REF: S-23

LEVELUP CONSULTING, LLC
505 E. JACKSON STREET
SUITE 200
TAMPA, FLORIDA 33602
OFFICE: 813-375-0616
WWW.LEVELUPFLORIDA.COM

CONSTRUCTION PLAN REVISIONS

1	03/20/24	REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
2	04/26/24	REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
3	06/19/24	REVISED PER CITY OF EDGEWATER COMMENTS
4	07/15/24	REVISED PER CITY OF EDGEWATER COMMENTS

YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

SANITARY SEWER DETAILS

Engineering Business Certificate of Authorization No. 32771
Florida Certificate of Authorization No. LC26006638

BRANDON D. MACHIELA LICENSE NO. 90686 STATE OF FLORIDA PROFESSIONAL ENGINEER

BRANDON D. MACHIELA
FLORIDA LICENSED PROFESSIONAL ENGINEER
REGISTRATION NUMBER 90686

PROJECT No. 199-01-01

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SANITARY SEWER DESIGN AND CONSTRUCTION NOTES: (CONTD.)

13. ALL TESTING REQUIRED BY THE CITY SHALL BE PAID FOR BY THE CONTRACTOR / DEVELOPER.
14. ALL LOCAL COLLECTION SANITARY SEWER MANHOLES SHALL BE PRECAST WITH A MINIMUM INSIDE DIAMETER OF 4 FEET.
15. STANDARD MANHOLES SHALL BE LOCATED AT INTERVALS NOT EXCEEDING 400 FEET.
16. ALL SEWER FITTINGS TO BE "HARCO" OR CITY APPROVED EQUAL.
17. MANHOLE RIMS SHALL MATCH FLUSH WITH THE FINISH GRADE ELEVATION IN PAVED AREAS AND A MINIMUM OF 0.2 FEET AND MAXIMUM OF 0.5 FEET ABOVE GRADE GENERALLY IN UNPAVED AREAS.
18. THE CONTRACTOR SHALL CONSTRUCT SANITARY SEWER MANHOLES IN SUCH A WAY THAT SEWER LINES DO NOT INTERSECT SEALED JOINTS BETWEEN SECTIONS OF THE MANHOLE.
19. RUBBER BOOTS AND STAINLESS STEEL BANDS SHALL BE UTILIZED IN THE CONNECTION OF THE SEWER MAIN TO THE MANHOLES (SEE STANDARD MANHOLE AND BOOT DETAIL).
20. INDIVIDUAL SANITARY SERVICE CONNECTORS ON NEW CONSTRUCTION SHALL NOT BE CONNECTED DIRECTLY INTO MANHOLES, AND MUST CONNECT TO SEWER MAIN LINES BY USE OF WYE CONNECTIONS, UNLESS OTHERWISE BE APPROVED BY THE CITY.
21. FOR SINGLE FAMILY HOMES, SINGLE OR DOUBLE FOUR INCH SEWER SERVICES LATERALS SHALL BE CONSTRUCTED SINGLES AT EACH LOT OR UNIT AND LOCATED ON THE DOWNSTREAM SIDE OF THE LOT CENTER LINE. DOUBLES LOCATED ON THE LOT LINES THESE SERVICES SHALL BE EXTENDED 4 FEET ABOVE GROUND AT THE PROPERTY LINE WITH A PVC RISER AND PLUG BEING EASILY VISIBLE FROM THE ROAD. RUBBER SEAL FITTINGS SHALL BE USED ON ALL LINES. NO GLUED JOINTS ARE PERMITTED ON LATERALS, INCLUDING DOUBLES.
22. FOR MULTI-FAMILY AND COMMERCIAL SITES, SIX INCH MINIMUM SEWER SERVICES AND CLEANOUTS SHALL BE PROVIDED AS APPROVED BY THE CITY.
23. SANITARY SEWER LIFT STATIONS AND FORCE MAINS, SIZE, MATERIAL, AND DESIGNS SHALL BE APPROVED BY THE CITY. LIFT STATIONS SHALL BE CONSTRUCTED WITH A MINIMUM WET WELL INTERIOR DIAMETER OF 8 FEET. FORCE MAINS SHALL BE A MINIMUM 6 INCH DIAMETER.
24. IT SHALL BE THE RESPONSIBILITY OF THE DESIGN ENGINEER TO PREPARE AND SUBMIT FLOTATION CALCULATIONS TO SIZE THE BASE OF THE WET WELL, AND ANY MANHOLES AS DEEMED NECESSARY BY THE CITY.
25. SANITARY SEWER DROP MANHOLES SHALL ONLY BE USED UNDER SPECIAL CONDITIONS AS APPROVED BY THE CITY. DROPS LESS THAN 2.0' SHALL NOT BE ALLOWED.
26. ALL SANITARY SEWER MANHOLE COVERS SHALL HAVE THE WORDS "EDGEWATER, FLORIDA SANITARY SEWER" CAST INTO THEM.
27. ALL SANITARY SEWER FORCE MAINS, SHALL BE PVC AWWA C-900, OR C-905 (COLOR "GREEN") (PRESSURE FITTINGS, PRESSURE CLASS 150 OR 250 EPOXY LINED DIP. THE FORCE MAIN MINIMUM DEPTH OF COVER SHALL BE 36".
28. ALL SANITARY SEWER FORCE MAINS SHALL USE A THRUST RESTRAINT JOINT METHOD IN COMPLIANCE WITH THE DUCTILE IRON PIPE RESEARCH ASSOCIATION GUIDELINES MODIFIED TO ACCOMMODATE PVC PIPE BY FOLLOWING THE RECOMMENDED INCREASE IN RESTRAINT LENGTH CORRESPONDING TO THE INSTALLATION OF POLYETHYLENE WRAP. IN NO INSTANCE SHALL THRUST BLOCKS BE PERMITTED.

EDGEWATER 2023-01-25	STANDARD CONSTRUCTION DETAIL SANITARY SEWER DESIGN AND CONSTRUCTION NOTES	FILE NAME: EW_S24.DWG DETAIL REF: S-24

SANITARY SEWER DESIGN AND CONSTRUCTION NOTES (CONTD.)

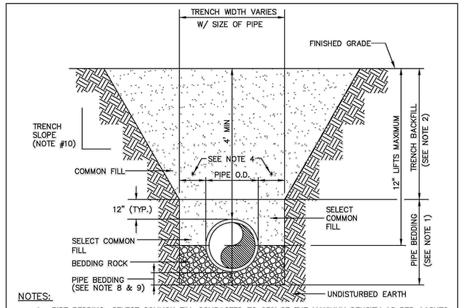
29. SANITARY SEWER MANHOLES WHICH HAVE SEWER FORCE MAINS DISCHARGING DIRECTLY INTO THEM SHALL BE FIBERGLASS OR POLY-ETHYLENE LINED. RETRO-FITTING OF MANHOLES WITH LINERS SHALL BE REQUIRED WHEN NEW CONNECTIONS SUCH AS THIS ARE MADE. FIBERGLASS SHALL BE A MINIMUM 1/2" THICKNESS UNLESS APPROVED OTHERWISE BY THE CITY. OTHER TYPES OF LINING METHODS AND MATERIALS MAY BE CONSIDERED ON A CASE BY CASE BASIS. UNDER SPECIAL CIRCUMSTANCES WHERE HYDROGEN SULFIDE IS A MAJOR CONCERN MANHOLES UPSTREAM AND/OR DOWNSTREAM OF THE FORCE MAIN TIE-IN OR WET WELL MAY ALSO BE REQUIRED TO HAVE LININGS INSTALLED.
30. THE CITY RESERVES THE RIGHT TO REQUIRE THE DEVELOPER TO PERFORM VACUUM TESTING OF ALL SANITARY MANHOLES, AIR TEST SEWER MAINS, AND REQUIRES THAT ALL SANITARY SEWER MAIN LINES BE TELEVISED PRIOR TO FINAL ACCEPTANCE. LATERALS SHALL BE TELEVISED UPON DEMAND BY THE CITY PRIOR TO FINAL ACCEPTANCE WHEN IT IS SUSPECTED THAT A PROBLEM EXISTS.
31. ALL SEWER MAINS, PRIOR TO ACCEPTANCE BY THE CITY AND PRIOR TO ANY FINAL PAVING OPERATIONS, SHALL BE CLEANED FLUSHED AND TELEVISED USING A "PAN AND TILT" CAMERA BY A CITY APPROVED CONTRACTOR. THE VIDEO SHALL BE NON-STOP WITH AUDIO DESCRIBING WHAT IS BEING REVIEWED. WRITTEN VIDEO LOGS DESCRIBING THE CONDITION OF THE LINES SHALL ACCOMPANY THE TAPE SUBMISSION TO THE CITY PRIOR TO COMMENCING ANY INSTALLATION OF ASPHALT OR CONCRETE PAVEMENT. RE-TAPING MAY BE REQUIRED BY THE CITY IF ADDITIONAL CLEARING OR CORRECTIVE ACTIONS ARE NECESSARY.
32. ALL MANHOLES WITH FORCE MAIN CONNECTIONS SHALL BE OUTFITTED WITH EGRU LINERS OR OTHER TYPES OF LINERS APPROVED BY THE VITY. IN ADDITION, THE CITY MAY REQUIRE LINES TO BE INSTALLED IN AREAS WHERE THE ENVIRONMENTAL SERVICES DEPARTMENT BELIEVES THE NEED IS JUSTIFIED.
33. ALL SEWER LINES WHICH ARE CONSTRUCTED OUTSIDE OF PUBLIC RIGHTS-OF-WAY WITHIN SIDE YARDS, BACKYARDS, AND OTHER POORLY ACCESSIBLE AREAS SHALL BE CONSTRUCTED OF C-900 PVC. ABSOLUTELY NO USE OF PLASTIC STYRENE FITTINGS SHALL BE ALLOWED.
34. SEWER LATERAL LOCATIONS SHALL BE MARKED ALONG THE OUTSIDE OF THE CURB WITH A SAW CUT "V", OR BY A METAL TAB SET INTO THE PAVEMENT.
35. CONTEC A-2000 PVC PIPE SHALL NOT BE ALLOWED FOR USE.
36. EZ-WRAP PLASTIC, AS MANUFACTURED BY PRESS SEAL GASKET CORPORATION, SHALL BE USED ON THE OUTSIDE OF ALL MANHOLE AND WETWELL JOINTS. APPLY ONE LAYER OF 9" WRAP CENTERED ON EACH JOINT. A CITY INSPECTOR SHALL PERSONALLY INSPECT ALL JOINT SEALS PRIOR TO BACKFILLING OPERATIONS.
37. ALL PROPOSED SEWER FORCE MAINS SHALL BE FLUSHED, PRESSURE TESTED AND CLEARED FOR SERVICE IN ACCORDANCE WITH THE LATEST AWWA STANDARDS AND THE FLORIDA DEPARTMENT OF ENVIROMENTAL PROTECTION REQUIREMENTS. THE CONTRACTOR SHALL NOTIFY THE CITY'S DESIGNATED SITE INSPECTOR WHO SHALL COORDINATE WITH CITY PERSONNEL AT THE ENVIRONMENTAL SERVICES DEPARTMENT (AS APPROPRIATE) AT LEAST 24 HOURS PRIOR TO BEGINNING A FULL-DIAMETER FLUSH OF THE MAINS PRIOR TO THE COMMENCEMENT OF PRESSURE TESTING (SUBJECT TO AVAILABILITY).
38. THE CITY MAY REQUIRE THE CONTRACTOR TO PIG FORCE MAINS IN EXCESS OF 6" IN DIAMETER AND PRIMARY TRANSMISSION MAINS LOCATED ON COLLECTOR AND ARTERIAL ROADWAYS. LAUNCHING AND EXTRACTION POINTS SHALL BE DETERMINED BY THE CONTRACTOR.

EDGEWATER 2023-01-25	STANDARD CONSTRUCTION DETAIL SANITARY SEWER DESIGN AND CONSTRUCTION NOTES	FILE NAME: EW_S25.DWG DETAIL REF: S-25

SANITARY SEWER DESIGN AND CONSTRUCTION NOTES (CONTD.)

39. ANY TIE INTO AN EXISTING MANHOLE WILL BE COORDINATED WITH THE CITY, AND ALL CONFINED SPACE HAZARDS AND PROCEDURES WILL BE FOLLOWED.
40. ANY TIE INTO AN EXISTING SYSTEM WILL BE SWEPT IN THE DIRECTION OF FLOW.
41. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL OSHA, DOT, OR ANY OTHER RULES & REGULATIONS THAT MAY APPLY.
42. AS A GENERAL RULE, THE NUMBER OF JOINTS SHALL BE LIMITED WHENEVER POSSIBLE. IN SPECIAL CASES WHERE A POINT REPAIR TO AN 8"TO 12" PVC SEWER MAIN IS REQUIRED, THE PROPER RIGID WRAP AROUND SLEEVE SUCH AS A JCM-210 OVERSIZED DUCTILE IRON COUPLING OR AN APPROVED EQUAL MAY BE ALLOWED BY SPECIAL APPROVAL BY THE CITY.
43. ALL IN-LINE SANITARY SEWER FORCE MAIN VALVES SHALL BE RESILIENT SEAT (AWWA C-509) VALVES FEATURING A LINED DUCTILE IRON BODY.
44. ALL TAPPING OF MAINS AND CORING OF MANHOLES SHALL BE COORDINATED WITH THE CITY BY AN APPROVED CONTRACTOR AND BILLED IN ACCORDANCE WITH THE ADOPTED FEE RESOLUTION. SCHEDULING OF THESE CONNECTIONS SHALL REQUIRE A MINIMUM 48 HOUR NOTIFICATION (MEASURED ON NORMAL WORK DAYS) DIRECTED TO THE CITY'S DESIGNATED SITE INSPECTOR WHO SHALL COORDINATE THE WORK DIRECTLY WITH THE ENVIRONMENTAL SERVICE DEPARTMENT. SUBSEQUENTLY, THE CONNECTION SHALL BE SCHEDULED TO COMMENCE ON THE APPROPRIATE DAY AND TIME ESTABLISHED BY CITY.
45. WITH RESPECT TO TIE-IN CONNECTIONS AND CORING OPERATIONS, THE CITY RESERVES THE RIGHT TO REQUIRE CONNECTIONS TO BE PERFORMED DURING PERIODS OF LOW FLOW (MIDNIGHT TO 6:00 A.M.) IN ORDER TO MINIMIZE SERVICE DISRUPTION TO EXISTING CUSTOMERS.
46. ALL WORK PERFORMED UPON SANITARY SEWER FACILITIES OWNED OR PROPOSED TO BE OWNED BY THE CITY SHALL BE CONSTRUCTED BY A LICENSED UNDERGROUND UTILITY CONTRACTOR, OR LICENSED GENERAL CONTRACTOR, WHO IS LICENSED IN THE STATE OF FLORIDA AND REGISTERED WITH THE CITY.
47. UPON CONSTRUCTION COMPLETION AND ACCEPTANCE OF THE SYSTEM, IT SHALL BE THE DESIGN ENGINEER'S RESPONSIBILITY TO ENSURE THAT THE SYSTEM IS PROPERLY CERTIFIED AND ACCEPTED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AND AS-BUILTS ARE PROVIDED TO THE CITY PRIOR TO ANY USE OF THE SYSTEM.
48. FOR CONSTRUCTION PURPOSES, THE PLANS SHALL DIMENSION THE LOCATION, OF ALL FORCE MAINS MEASURED FROM THE BACK OF CURB (OR EDGE OF PAVEMENT, IF NO CURBING EXISTS.)
49. ALL HDPE PIPE INSTALLED FOR SEWAGE FORCE MAINS SHALL BE SDR 11 UNLESS SPECIFICALLY NOTED OTHERWISE. THE HDPE PIPE SHALL BE SIZED TO MATCH THE EXTERNAL DIAMETER OF THE PVC OR DIP TO WHICH IT IS ATTACHED.
50. LANDSCAPE PLANS SHALL CLEARLY DEPICT THE DESIGN LOCATION OF PLANTINGS RELATIVE TO THE LOCATION OF PUBLIC UTILITIES AND STORMWATER INFRASTRUCTURE IN ORDER TO EVALUATE POTENTIAL CONFLICTS.
51. ALL UTILITY INSTALLATIONS ARE SUBJECT TO REVIEW AND APPEAL BY THE CITY OF EDGEWATER. ALL STRUCTURES AND EQUIPMENT SUPPLIED AND/ OR INSTALLED SHALL MEET QUALITY AND PERFORMANCE STANDARDS PRIOR TO ACCEPTANCE. SUBSTANDARD INSTALLATIONS MAY BE REJECTED, REMEMBER MEASURES ARE SUBJECT TO CITY APPROVAL.

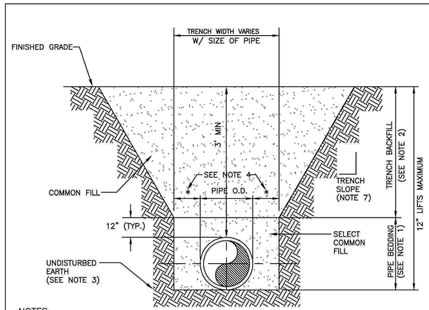
EDGEWATER 2023-01-25	STANDARD CONSTRUCTION DETAIL SANITARY SEWER DESIGN AND CONSTRUCTION NOTES	FILE NAME: EW_S26.DWG DETAIL REF: S-26



NOTES:

1. PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180. (98% DENSITY REQUIRED UNDER PAVEMENT, DRIVEWAYS AND STRUCTURES.)
3. USE TYPE "A" BEDDING TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE CITY.
4. (*): 15" MAX. FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX. FOR PIPE DIAMETER 24" AND LARGER.
5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF FLOW.
7. REFER TO SECTION 32.5 OF THE MANUAL FOR SHEETING AND BRACING IN EXCAVATIONS.
8. GRAVITY SEWERS SHALL UTILIZE TYPE "A" BEDDING, WHERE UNSUITABLE MATERIAL EXISTS. BEDDING DEPTH SHALL BE 4" MINIMUM FOR PIPE DIAMETER LESS THAN 15", AND 6" MINIMUM FOR PIPE DIAMETER 16" AND LARGER.
9. DEPTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL GOVERN DEPTH OF BEDDING ROCK BELOW THE PIPE. CITY SHALL DETERMINE IN THE FIELD REQUIRED REMOVAL OF UNSUITABLE MATERIAL TO REACH SUITABLE FOUNDATION.
10. REFER TO OSHA REQMTS. FOR SLOPING, SHEETING AND BRACING IN EXCAVATIONS.

EDGEWATER 2023-01-25	STANDARD CONSTRUCTION DETAIL TYPE "A" BEDDING AND TRENCH DETAIL (SPECIAL GRAVITY SEWER INSTALLATIONS)	FILE NAME: EW_S28.DWG DETAIL REF: S-28



NOTES:

1. PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180, (98% DENSITY REQUIRED UNDER DRIVEWAYS, PAVEMENT AND STRUCTURES).
3. PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK IN ACCORDANCE WITH TYPE "A" BEDDING AND TRENCHING DETAIL MAY BE REQUIRED AS DIRECTED BY THE CITY.
4. (*): 15" MAX. FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX. FOR PIPE DIAMETER 24" AND LARGER.
5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF FLOW.
7. REFER TO OSHA REQUIREMENTS FOR SLOPING, SHEETING AND BRACING IN EXCAVATIONS.
8. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF RIGHT-OF-WAY UTILIZATION REGULATIONS AND ROAD CONSTRUCTION SPECIFICATIONS.

EDGEWATER 2023-01-25	STANDARD CONSTRUCTION DETAIL TYPE "B" BEDDING AND TRENCH DETAIL (TYPICAL FOR WATER, SEWER, FORCE MAIN, STORM DRAIN AND RECLAIMED WATER MAIN INSTALLATIONS)	FILE NAME: EW_S29.DWG DETAIL REF: S-29

LEVELUP CONSULTING, LLC
LVLUP
505 E. JACKSON STREET
SUITE 200
TAMPA, FLORIDA 33602
OFFICE: 813-375-0616
WWW.LEVELUPFLORIDA.COM

CONSTRUCTION PLAN REVISIONS

1	03/20/24	REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
2	04/26/24	REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
3	06/19/24	REVISED PER CITY OF EDGEWATER COMMENTS
4	07/15/24	REVISED PER CITY OF EDGEWATER COMMENTS

YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

SANITARY SEWER DETAILS

Engineering Business Certificate of Authorization No. 32771
Florida Certificate of Authorization No. LC26000638

BRANDON D. MACHIELA
LICENSE NO. 90686
STATE OF FLORIDA
PROFESSIONAL ENGINEER

BRANDON D. MACHIELA
FLORIDA LICENSED PROFESSIONAL ENGINEER
REGISTRATION NUMBER 90686

PROJECT No. 199-01-01

SHEET C 12.1

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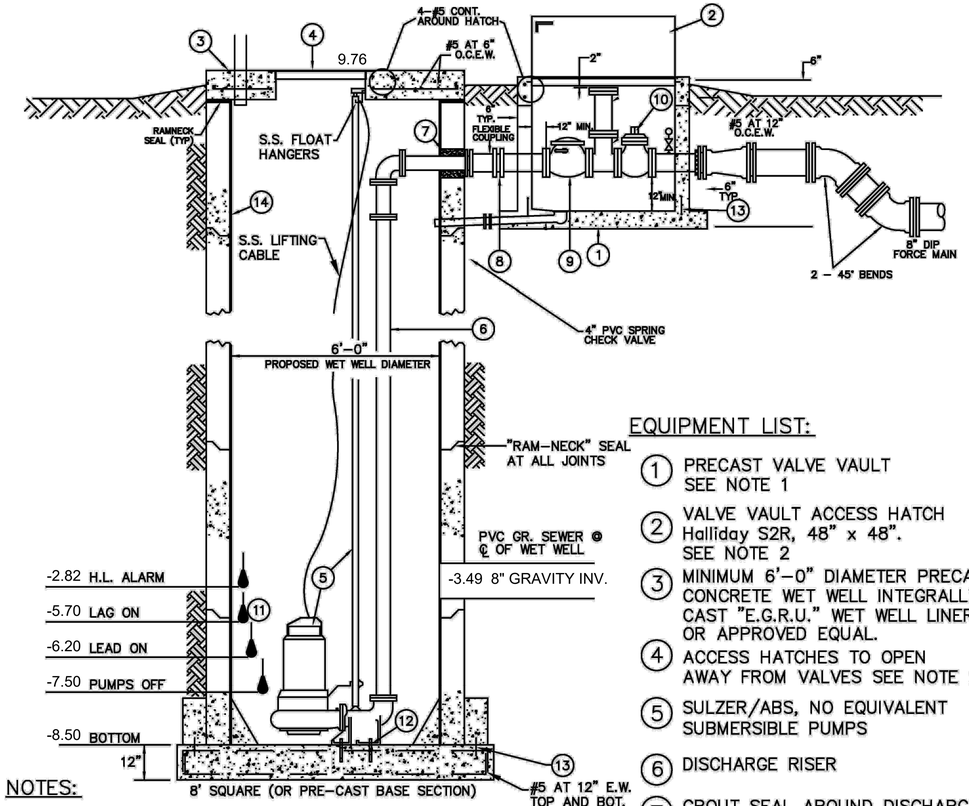


EQUIPMENT LIST:

1. PRECAST VALVE VAULT SEE NOTE 1
2. VALVE VAULT ACCESS HATCH Halliday S2R, 48" x 48". SEE NOTE 2
3. MINIMUM 6'-0" DIAMETER PRECAST CONCRETE WET WELL INTEGRALLY CAST "E.G.R.U." WET WELL LINER OR APPROVED EQUAL.
4. ACCESS HATCHES TO OPEN AWAY FROM VALVES SEE NOTE 2.
5. SULZER/ABS, NO EQUIVALENT SUBMERSIBLE PUMPS
6. DISCHARGE RISER
7. GROUT SEAL AROUND DISCHARGE LINES WITH NON-SHRINK GROUT
8. FLEXIBLE COUPLEING APPROVED BY THE CITY ENGINEER
9. FL. x FL. CHECK VALVE
10. FL. x FL. PLUG VALVE W/ VALVE WRENCH
11. 4 FLOATS FOR PUMP CONTROL COORDINATE ELEV. WITH CITY
12. ANCHOR PUMP TO WET WELL FLOOR
13. 6" PVC WATER STOP
14. "E.G.R.U" LINER JOINTS TO BE FIELD WELDED

NOTES:

1. INTERIOR OF VALVE VAULT AND ALL PIPING AND FITTINGS SHALL BE DELIVERED WITH A FACTORY APPLIED EPOXY FINISH.
2. COORDINATE WET WELL ACCESS HATCH LOCATION WITH PUMP MOUNTING LOCATIONS. HATCH TYPE HALLIDAY S1R/S2R PROVIDE LOCKING POST TYPE MECHANISM AND SAFETY GRATING ON ALL ACCESS HATCHES. ALL HATCHES TO BE 300 P.S.F. LOAD RATED.
3. SEE SPECIFICATIONS FOR APPROVED VALVE TYPES AND MANUFACTURERS.
4. SOD ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES OUTSIDE OF FENCED AREA.
5. SULZER/ABS, NO EQUIVALENT PUMPS TO BE FURNISHED WITH DISCHARGE CONNECTION COUPLING, STAINLESS STEEL SLIDERAIL SYSTEM, SEAL FAILURE AND THERMAL OVERLOAD INDICATORS.
6. ALL PIPES, INVERTS AND HATCHES TO BE THE SIZE AND KIND SPECIFIED ON THE SET OF APPROVED CONSTRUCTION PLANS.
7. ALL HARDWARE INSIDE WETWELL SHALL BE 316SS.
8. ALL PRESSURE PIPING TO BE RESTRAINED W/MEGALUG FITTINGS OR EQUAL.

City of EDGEWATER Florida

2023-01-25

STANDARD CONSTRUCTION DETAIL
LIFT STATION WET WELL SECTION (SUBMERSIBLE)

FILE NAME: EW_S17.DWG

DETAIL REF: S-17

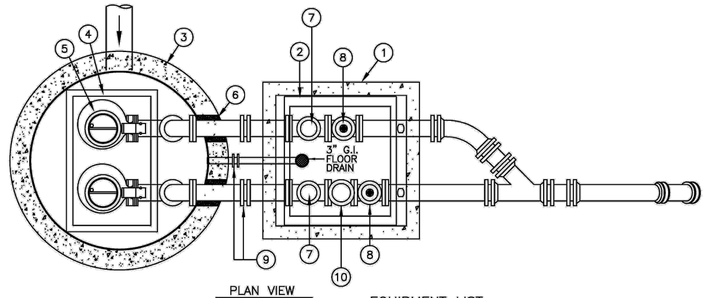
EDGEWATER

2023-01-25

STANDARD CONSTRUCTION DETAIL
LIFT STATION PLAN VIEW (SUBMERSIBLE)

FILE NAME: EW_S18.DWG

DETAIL REF: S-18



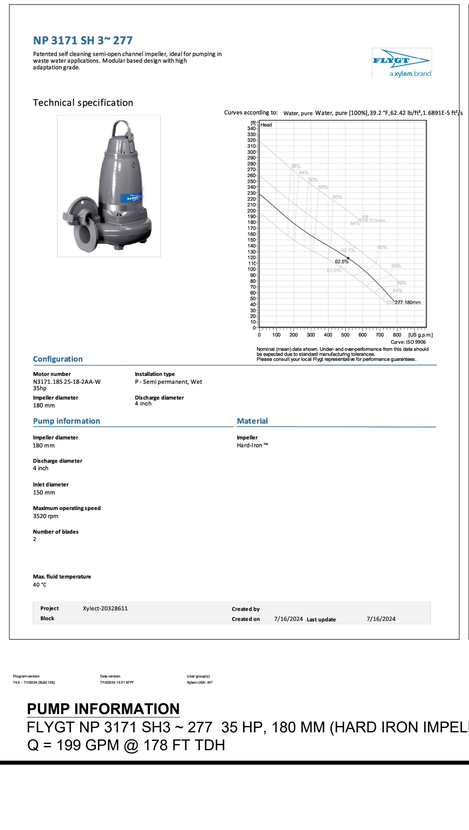
PLAN VIEW
N.T.S.

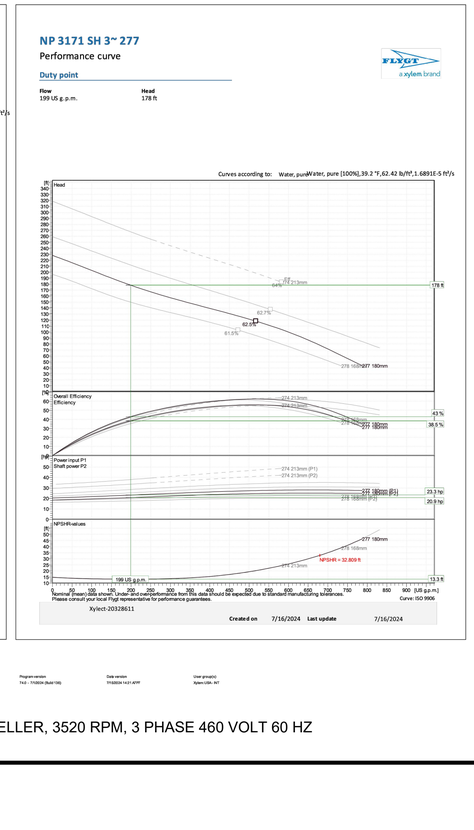
NOTES:

1. SANDBLAST AND PAINT INTERIOR OF VALVE VAULT PRE-COAT EPOXY FROM MANUFACTURER OR 2 COATS - 15 MILS TOTAL OF APPROVED COATING.
2. COORDINATE WET WELL ACCESS HATCH LOCATION WITH PUMP MOUNTING LOCATIONS. PROVIDE HASP TYPE LOCKING MECHANISM ON ALL ACCESS HATCHES. ALL HATCHES TO BE 300 P.S.F. LOAD RATED.
3. SEE SPECIFICATIONS FOR APPROVED VALVE TYPES AND MANUFACTURERS.
4. PUMPS TO BE FURNISHED WITH HIGH PRESSURE DISCHARGE COUPLING, STAINLESS STEEL SLIDERAIL SYSTEM, SEAL FAILURE AND THERMAL OVERLOAD INDICATORS.
5. ALL PIPES, INVERTS AND HATCHES TO BE THE SIZE AND KIND SPECIFIED ON THE SET OF APPROVED CONSTRUCTION PLANS.
6. ALL HARDWARE INSIDE WETWELL TO BE 316 STAINLESS STEEL.
7. ALL PRESSURE PIPING TO BE RESTRAINED W/MEGALUG FITTINGS OR EQUAL.
8. PRESSURE GUAGE TO BE INSTALLED ON DISCHARGE SIDE OF PLUG VALVE, OPPOSITE SIDE OF BYPASS. USE DIAPHRAGM STYLE GUAGE ASSEMBLY.

EQUIPMENT LIST

1. PRECAST VALVE VAULT SEE NOTE 1
2. VALVE VAULT ACCESS HATCH U.S. FOUNDRY APD300 48x48, SEE NOTE 2
3. 6'-0" DIAMETER PRECAST CONCRETE WET WELL INTEGRALLY CAST "E.G.R.U" WET WELL LINER
4. WET WELL ACCESS HATCHES, SEE NOTE 2
5. FLGYT OR ABS SUBMERSIBLE PUMPS.
6. GROUT SEAL AROUND DISCHARGE LINES WITH NON-SHRINK GROUT
7. FL. x FL. CHECK VALVE
8. FL. x FL. 1/4 TURN PLUG VALVE W/ VALVE WRENCH
9. M.J. X M.J. SLEEVE W/ MEGALUG RESTRAINT
10. EMERGENCY PUMP CONNECTION





PUMP INFORMATION

FLYGT NP 3171 SH3 ~ 277 35 HP, 180 MM (HARD IRON IMPELLER, 3520 RPM, 3 PHASE 460 VOLT 60 HZ
Q = 199 GPM @ 178 FT TDH

LEVELUP CONSULTING, LLC
LVLUP
505 E. JACKSON STREET
SUITE 200
TAMPA, FLORIDA 33602
OFFICE: 813-375-0616
WWW.LEVELUPFLORIDA.COM

CONSTRUCTION PLAN REVISIONS

1	03/29/24	REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
2	04/26/24	REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
3	06/19/24	REVISED PER CITY OF EDGEWATER COMMENTS
4	07/15/24	REVISED PER CITY OF EDGEWATER COMMENTS

YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

LIFT STATION UPGRADES

Engineering Business Certificate of Authorization No. 32771
Florida Certificate of Authorization No. LC26000638

BRANDON D. MACHIELA LICENSE NO. 90686 STATE OF FLORIDA PROFESSIONAL ENGINEER

BRANDON D. MACHIELA
FLORIDA LICENSED PROFESSIONAL ENGINEER
REGISTRATION NUMBER 90686

PROJECT No. 199-01-01

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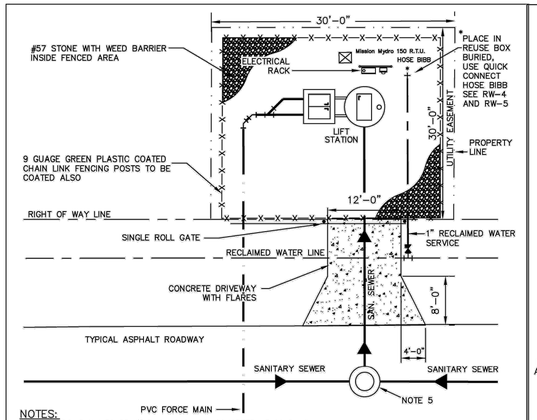
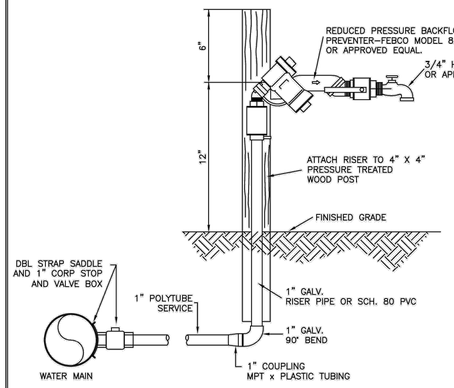


NOTES:

1. DRIVEWAY TO BE 6" THICK 3000 PSI CONCRETE AT 28 DAYS WITH 6x6 10/10 W.W. MESH. BASE TO BE COMPACTED AND TESTED TO 98% DENSITY WITH MINIMUM L.B.R. 40 BASED ON A.A.S.H.T.O. T-180 MODIFIED PROCTOR TEST.
2. IF RECLAIMED WATER IS UNAVAILABLE FOR LIFT STATION WATER SERVICE, CONTRACTOR SHALL USE POTABLE WATER.
3. REFER TO APPROPRIATE STANDARD CONSTRUCTION DETAIL FOR EMERGENCY PUMP CONNECTION/PLUG VALVE DETAIL AND LIFT STATION WATER SERVICE DETAIL.
4. FENCE MAY BE RELOCATED INTERNALLY WITHIN SITE TO CREATE A 25' X 25' SITE IF LANDSCAPING MATERIALS ARE INSTALLED AROUND THE PERIMETER.
5. MANHOLE TO BE LINED, "AGRU" OR APPROVED EQUAL.
6. LANDSCAPING SHALL CONSIST OF #57 WHITE ROCK, BUSHES, ACCEPTABLE TO THE CITY, SHALL BE PLACED AS A VISUAL BUFFER TO ANY RESIDENTIAL AREAS ADJACENT TO THE LIFT STATION.
7. INSIDE FENCE AREA, STOP DRIVEWAY AT FENCE LINE AND ADD FOUR INCHES OF #57 STONE ON INSIDE OF FENCE AREA WITH WEED BARRIER UNDERNEATH. OUTSIDE OF FENCE AREA TO BE SODDED.
8. FENCING SHALL BE 6' HIGH WITH SINGLE ROLL GATE. NOT SWING GATE.
9. EQUIP WITH AN EMERGENCY POWER PERMANENTLY INSTALLED DIESEL DRIVEN BYPASS PUMP MANUFACTURED BY ATLAS COPCO.

* IF RECLAIMED SVC. IS UNAVAILABLE, USE DETAIL #S-16 FOR WATER SERVICE

2023-01-25	STANDARD CONSTRUCTION DETAIL TYPICAL LIFT STATION SITE PLAN	FILE NAME: EW_S15.DWG DETAIL REF: S-15

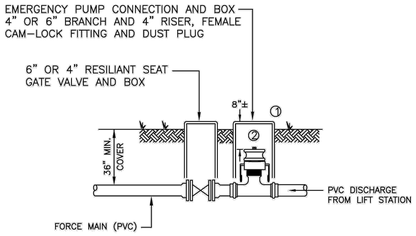


2023-01-25	STANDARD CONSTRUCTION DETAIL LIFT STATION POTABLE WATER SERVICE (WHERE RECLAIMED WATER NOT AVAILABLE)	FILE NAME: EW_S16.DWG DETAIL REF: S-16

LIFT STATION WET WELL DESIGN AND CONSTRUCTION NOTES FOR SUBMERSIBLE PUMP STATIONS

1. SEE CITY STANDARD DETAIL FOR EMERGENCY PUMP CONNECTION REQUIREMENTS
2. SEE CITY STANDARD DETAIL FOR 1" HOSE BIBB AND REQUIREMENTS.
3. SEE CITY STANDARD DETAIL FOR ALL ELECTRICAL REQUIREMENTS.
4. MINIMUM WET WELL DIAMETER IS 6 FT. THE MINIMUM REQUIRED DEPTH OF WET WELL BELOW THE LOWEST INVERT, SHOULD BE SET TO ALLOW THE MINIMUM RUN AND CYCLE TIMES OF THE PUMPS.
5. ALL PIPING SHALL BE HDPE AND FITTINGS IN WET WELL TO BE EPOXY LINED AND ASSEMBLED WITH 316SS STAINLESS STEEL BOLTS AND NUTS ONLY.
6. STATION TOP TO BE AT 1" ABOVE FINISHED GRADE AND TAPERED TO FINISHED GRADE AND ITS ELEVATION WILL BE NO LOWER THAN THE 100-YEAR BASE FLOOD ELEVATION.
7. ALL DISCHARGE FITTINGS ON THE EXIT SIDE OF THE VALVE VAULT WILL BE PVC RESTRAINED JOINT.
8. ALL SEWER LINES ENTERING AND EXITING MANHOLES SHALL BE SEALED UTILIZING RUBBER BOOTS OR OTHER CITY APPROVED INFILTRATION LIMITING METHOD
9. WET WELL SECTIONS SHALL BE JOINED USING RAMNECK JOINT MATERIAL AND SHALL BE FREE FROM SEEPAGE PRIOR TO ACCEPTANCE. PROVIDE EZ-WRAP BUTYL ADHESIVE TAPE PER MANUFACTURERS RECOMMENDATIONS AT EACH WET WELL SECTION EXTERIOR JOINT CRCUMFERENCE. USE EASY STICK NO.4 PRIMER PER MANUFACTURERS RECOMMENDATIONS PRIOR TO INSTALLATION OF EZ-WRAP TAPE.
10. NO SPLICES OR JUNCTION BOXES ARE ALLOWED FOR BALL FLOAT CORD INSTALLATION.
11. ALL LIFT STATIONS SHALL BE FIBERGLASS LINED OR LINED WITH ANOTHER MATERIAL AS APPROVED BY THE CITY (ASTM d 3753)
12. WET WELL CONSTRUCTION SHALL BE REINFORCED CONCRETE IN ACCORDANCE WITH ASTM C-76 4000PSI AT 28 DAYS. ALTERNATE CONSTRUCTION SHALL BE PRECAST MONOLITHIC WITH BASE SLAB IN ACCORDANCE WITH ASTM C-478.
13. ELECTRICAL PERMIT TO BE OBTAINED FROM THE CITY PRIOR TO BEGINNING WORK ON ANY ELECTRICAL WIRING, EQUIPMENT, ETC. ALL ELECTRICAL WIRING TO COMPLY WITH THE CURRENT NATIONAL ELECTRIC CODE.
14. THREE COPIES OF THE LIFT STATION OPERATING MANUALTO BE PROVIDED TO THE ENVIRONMENTAL SERVICES DEPARTMENT PRIOR TO FINAL ACCEPTANCE OF THE LIFT STATION.
15. EMERGENCY HIGH LEVEL WETWELL FLASHING RED LIGHT REQUIRED WITH AUDIBLE ALARM (SEE S-20 NOTES)
16. LINKABLE FUSED ELECTRICAL DISCONNECT REQUIRED.
17. ALL PUMP STATION WIRING SHALL BE STANDARD COPPER.
18. THREE PHASE POWER AND MOTORS REQUIRED.
19. DISCONNECT FOR MISSION MYDRO 150 TELIMITRY TO BE PROVIDED.
20. FLOAT HANGER WILL BE INSTALLED AVOIDING ALL CONFLICTS WITH ANY INVERTS.
21. 2 IN. CONDUIT SHALL BE INSTALLED FOR FLOAT WIRES. EACH PUMP CORD SHALL HAVE A SEPARATE 2" CONDUIT.
22. ALL PUMPS WILL BE SPACED AND SET PER PUMP MANUFACTURERS SPECIFICATIONS.
23. ALL PUMP GUIDE RAILS WILL BE 316SS STAINLESS STEEL OR APPROVED EQUAL.
24. ALL WET WELL FLOORS WILL BE SLOPED TO AVOID ANY SETTLEMENT OF SOLIDS.
25. ALL VALVE VAULT FLOORS WILL BE SLOPED AND PITCHED TOWARD THE FLOOR DRAIN.
26. A MINIMUM OF 95% DENSITY WILL BE REQUIRED FOR ALL STRUCTURES. (WET WELL VALVE VAULT, ETC.)
27. AFTER DENSITY IS ACHIEVED, A 1 FT. BED OF #57STONE WILL BE PLACED BETWEEN EARTH AND STUCTURE.
28. CONTRACTOR MUST PROVIDE A POST CONSTRUCTION VIDEO OF ALL MANHOLES AND GRAVITY SEWER LINES.
29. A DIAPHRAGM STYLE PRESSURE GAUGE WILL BE INSTALLED ON THE DISCHARGE SIDE OF THE PLUG VALVE. INSTALLATION WILL BE A STAINLESS STEEL SADDLE TAP METHOD, AND EQUIPPED WITH A BRASS BALL VALVE BETWEEN THE GUAGE AND THE PIPE.
30. ALL PUMP STATIONS SHALL HAVE PERMINATELY INSTALLED DIESEL DRIVEN ATLAS COPCO BYPASS PUMP OR PROVIDE SIGNED AND SEALED DRAWINGS OF GENERATOR AND ENCLOSURE AND REQUIRES 277/480 VOLTAGE.

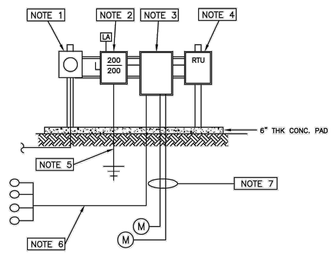
2023-01-25	STANDARD CONSTRUCTION DETAIL LIFT STATION WET WELL DESIGN AND CONSTRUCTION NOTES (SUBMERSIBLE PUMP STATIONS)	FILE NAME: EW_S19.DWG DETAIL REF: S-19



NOTES:

1. PUMP CONNECTION BOX IS CDR #WB001527-12. SOLID 15" X 27" COVER WITH "SEWER" IMPRINTED ON LID.
2. CAM-LOK PIPE FITTING IS 4" MIPX MALE CAMLOCK WITH FEMALE DUST PLUG.

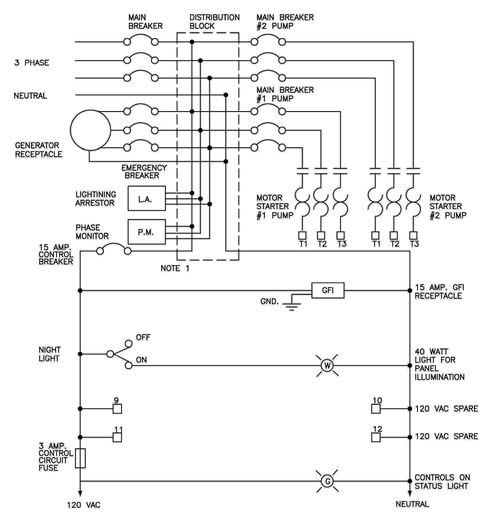
2023-01-25	STANDARD CONSTRUCTION DETAIL LIFT STATION EMERGENCY PUMP CONNECTION	FILE NAME: EW_S20A.DWG DETAIL REF: S-20A



NOTES:

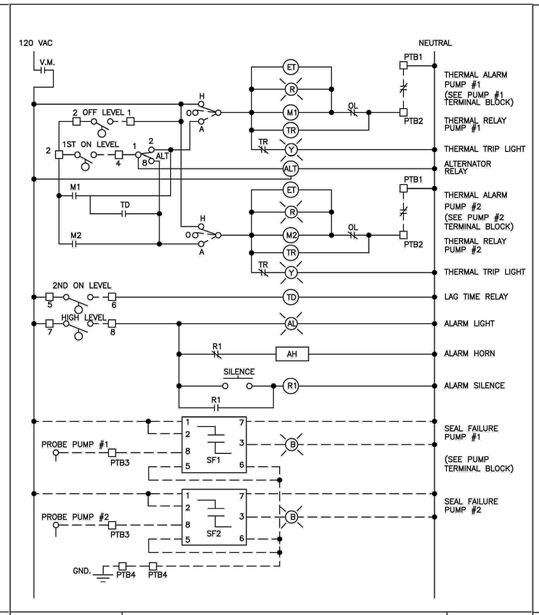
1. FPL APPROVED METER CAN WITH BYPASS
2. ELECTRICAL DISCONNECT SIZED TO STATION
3. ELECTRICAL PANEL FOR A SUBMERSABLE STATION OR MANUAL TRANSFER SWITCH FOR A WETWELL MOUNTED STATION.
4. RTU 24X24X9
5. #4 SOLID GROUND WIRE CONNECTED TO 3 8-FOOT GROUND RODS SPACED 10 FEET APART
6. 2 INCH SCH.80 PVC WITH 4 FLOAT SWITCHES
7. 2 INCH SCH.80 PVC WITH 1 PUMP LEAD IN EACH CONDUIT.
8. ALL CONDUITS CONNECTING THE WETWELL TO AN ELECTRICAL APPLIANCE WILL BE PROTECTED BY SEAL OFFS
9. ELECTRICAL PANEL WILL BE BUILT WITH 2 EXTRA 120V POWER POINTS
10. REQUIREMENTS FOR THE ELECTRICAL PANEL COMPONENTS ARE NOTED IN S-21, S-22A, AND S-22B
11. ALL WIRING COMPONENTS AND STRUCTURES WILL BE IN COMPLIANCE WITH THE NATIONAL ELECTRIC CODE
12. ALL ELECTRICAL APPLIANCED WILL BE NEMA RATED 316 STAINLESS STEEL
13. GENERATOR RECEPTICAL WILL BE A HUBBEL 4100B9W 4PIN 100 AMP WITH WEATHERPROOF CAP
14. TELEMETRY AND LEVEL CONTROL DEVICES WILL BE MISSION MYDRO 150
15. PROVIDE 3IN. ALUMINUM PIPES OR 6in X 6in CEMENT POST AND 1/3 CUBIC YARD OF CEMENT TO SUPPORT EQUIPMENT RACK ASSEMBLY. EQUIPMENT RACK ASSEMBLY TO INCLUDE 1 1/2in STAINLESS STEEL KINDORF CHANNEL USING STAINLESS STEEL HARDWARE. (U-BOLTS, BOLTS, ETC)
16. CONTRACTOR WILL BE REQUIRED TO APPLY FOR ALL APPLICABLE PERMITS
17. LIGHTENING ARRESTOR – SQUARE D. NO. SDSA 3650 TO BE INSTALLED IN PANEL
18. ALL LIFT STATIONS WITH ALARM LIGHT AND AUDIBLE ALARM TO BE INSTALLED ON ELECTRICAL PANEL

2023-01-25	STANDARD CONSTRUCTION DETAIL PACKAGED LIFT STATION ELECTRICAL EQUIPMENT RACK	FILE NAME: EW_S22.DWG DETAIL REF: S-22

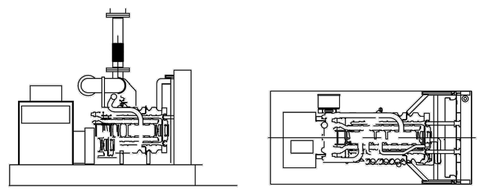


NOTE 1 – FOR 277/480 VOLT PANELS STEP DOWN TRANSFORMER FOR 120 VOLT CONTROL VOLTAGE WILL BE REQUIRED.

2023-01-25	STANDARD CONSTRUCTION DETAIL PACKAGED LIFT STATION ELECTRICAL PANEL SCHEMATIC	FILE NAME: EW_S22A.DWG DETAIL REF: S-22A



2023-01-25	STANDARD CONSTRUCTION DETAIL PACKAGED LIFT STATION ELECTRICAL PANEL SCHEMATIC	FILE NAME: EW_S22B.DWG DETAIL REF: S-22B



NOTES:

1. ANY LIFT STATION WILL BE SUPPORTED BY A PERMANENTLY INSTALLED DIESEL DRIVEN BYPASS PUMP AS MANUFACTURED BY ATLAS COPCO OR AN ON-SITE PERMANENT MOUNTED GENERATOR.
2. GENERATOR SHALL BE MANUFACTURED BY OLYMPIAN OR OTHER CITY APPROVED EQUAL.
3. AN AUTOMATIC TRANSFER SWITCH WILL BE INSTALLED BETWEEN THE GENERATOR AND THE ELECTRIC PANEL.
4. THE GENERATOR SHALL BE RATED AT THE MAXIMUM STATION AMPERAGE PLUS 25 PERCENT.
5. THE GENERATOR SHALL BE MOUNTED ON A 28 DAY, 3,000 p.s.i., SIX INCH (6") THICK, SLAB WITH A MINIMUM TWO FOOT (2') SKIRT ON ALL FOUR SIDES.
6. THE GENERATOR SHALL HAVE ON SITE FUEL STORAGE SUFFICIENT TO RUN THE GENERATOR FOR A MINIMUM OF 24 HOURS.
7. THE GENERATOR SHALL BE ENCLOSED BY A NEMA RATED WATERPROOF ENCLOSURE AND BE SOUND ATTENUATED.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR A MANUFACTURER'S START UP WITH THE CITY IN ATTENDANCE.

2023-01-25	STANDARD CONSTRUCTION DETAIL PUMP STATION BACKUP GENERATOR	FILE NAME: EW_S31.DWG DETAIL REF: S-31

LEVELUP CONSULTING, LLC
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CONSTRUCTION PLAN REVISIONS

1	03/29/24	REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
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YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

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LICENSE NO. 90686
STATE OF FLORIDA
PROFESSIONAL ENGINEER

BRANDON D. MACHIELA
FLORIDA LICENSED PROFESSIONAL ENGINEER
REGISTRATION NUMBER 90686

PROJECT No. 199-01-01

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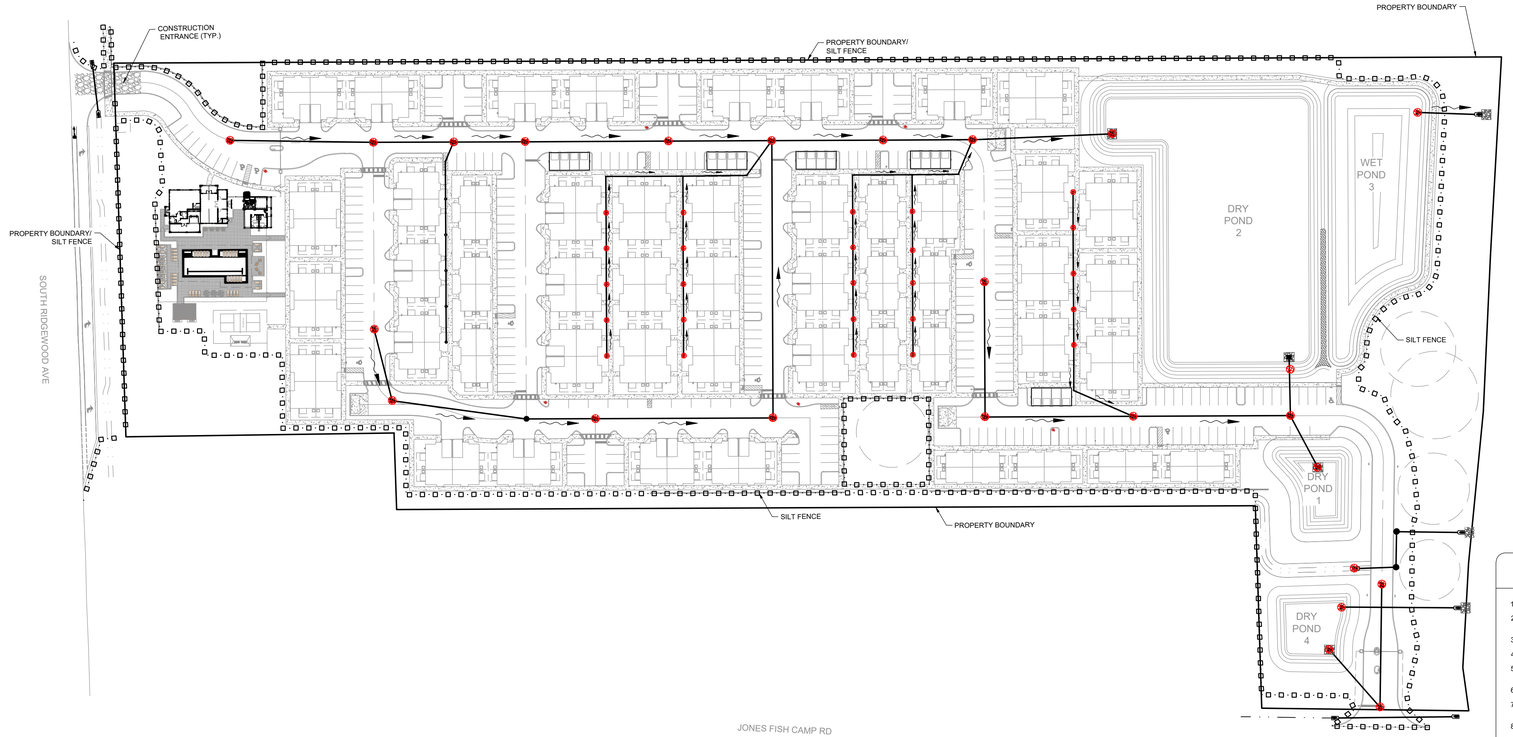

LEGEND

- PROPERTY LINE
- RIGHT OF WAY LINE
- EASEMENT LINE
- EXISTING CONTOUR
- SILT FENCE
- MITERED END SECTION
- MANHOLE
- GRATE INLET/CONTROL STRUCTURE
- YARD DRAIN
- INLET PROTECTION

GENERAL NATURAL RESOURCE NOTES

1. IMPACTS TO STATE AND FEDERALLY PROTECTED SPECIES AS LISTED IN THE MOST CURRENT VERSION OF "FLORIDA'S ENDANGERED SPECIES, THREATENED SPECIES AND SPECIES OF SPECIAL CONCERN: OFFICIAL LISTS" PREPARED BY THE FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC) ARE NOT AUTHORIZED BY THIS PERMIT. THESE SPECIES MAY INCLUDE, BUT ARE NOT LIMITED TO, FLORIDA SCRUB JAY, AMERICAN BALD EAGLE, SHERMAN'S FOX SQUIRREL, BURROWING OWL, GOPHER TORTOISE , GOPHER FROG, AND EASTERN INDIGO SNAKE. PROTECTION EXTENDS TO THE NESTS, BURROWS AND HABITAT UTILIZED BY THESE SPECIES. IF A LISTED SPECIES OR ITS EVIDENCE, SUCH AS BURROWS, NESTS, SCAT, TRACKS) THAT WAS NOT ADDRESSED IN THIS PERMIT IS OBSERVED PRIOR TO OR DURING CONSTRUCTION, ALL CLEARING AND EARTHMOVING ON-SITE SHALL CEASE. THE PERMITTEE SHALL CONSULT WITH THE FWC REGIONAL OFFICE AND/OR THE U.S. FISH AND WILDLIFE SERVICE REGIONAL OFFICE REGARDING NECESSARY PROTECTION MEASURES AND PROVIDE EVIDENCE OF SUCH CONSULTATION TO RESOURCE PROTECTION SERVICES PRIOR TO RESUMING WORK.

2. IF ANY TYPE A FILL (CLEAN EARTHEN MATERIAL) IS TO BE HAULED OFF-SITE, AN EARTHMOVING PERMIT OR LETTER OF EXEMPTION IS REQUIRED FROM RESOURCE PROTECTION SERVICES. IF ANY TYPE A FILL HAULED OFF-SITE IS TO BE STOCKPILED OR FILLED UPON PRIVATE PROPERTIES WITHIN THE AREAS OF THE CITY OF EDGEWATER, THE RECEIVING PROPERTY(S) SHALL POSSESS AUTHORIZATION IN THE FORM OF AN EARTHMOVING PERMIT, A WRITTEN EARTHMOVING EXEMPTION, A BUILDING PERMIT, OR CONSTRUCTION PLAN APPROVAL PRIOR TO RECEIVING SAID FILL. NO TYPE B (CONCRETE, BROKEN ASPHALT, ROCKS), TYPE C (VEGETATIVE LAND CLEARING DEBRIS), OR TYPE D (GARBAGE, REFUSE, WOOD, METAL, PLASTIC, ETC.) FILL MAY BE BURIED WITHIN OR OUTSIDE APPROVED CONSTRUCTION LIMITS. TYPE D FILL MUST BE DISPOSED AT AN APPROVED LANDFILL OR RECYCLING FACILITY. TYPE B, C, AND D FILLS GENERATED ON-SITE SHALL NOT BE STOCKPILED ON-SITE FOR GREATER THAN SIX MONTHS. TYPE B, C, AND D FILLS SHALL NOT BE HAULED TO THE SITE FROM OFF-SITE SOURCES. FOR INFORMATION ABOUT EARTHMOVING PERMITS OR EXEMPTIONS, CONTACT CITY OF EDGEWATER. IF FILL MATERIAL IS TO BE STOCKPILED WITHIN THE APPROVED CONSTRUCTION LIMITS, THE PROJECT ENGINEER MUST PROVIDE DETAILED DRAWINGS TO LAND DEVELOPMENT SERVICES FOR REVIEW AND APPROVAL

BEST MANAGEMENT PRACTICES GUIDELINES

1.) INSTALL EROSION CONTROL DEVICES AROUND THE PROJECT BOUNDARY AND AS NEEDED TO PREVENT SOIL FROM LEAVING THE SITE.

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.

3.) STABILIZE ALL PERIMETER BERMS AND SLOPES TO PROTECT AGAINST EROSION.

4.) WRAP INLET GRATES WITH FILTER FABRIC UNTIL THE DRAINAGE AREA DRAINING TO EACH INLET IS STABILIZED WITH EITHER PAVEMENT OR SOD.

5.) MAINTAIN SILT FENCE, FILTER FABRIC, AND ALL OTHER EROSION CONTROL DEVICES UNTIL STABILIZATION IS ESTABLISHED TO PREVENT SOIL FROM LEAVING THE SITE.

6.) INSTALL ALL EROSION CONTROL DEVICES AS PER F.D.O.T. STANDARDS, LATEST EDITION.

7.) IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION, STABILIZE THE EFFECTIVE AREA BY USING WETTING OR OTHER ACCEPTABLE METHODS.

8.) REMOVE ALL SILTATION ACCUMULATIONS GREATER THAN THE LESSER OF 12 INCHES OR ONE-HALF THE DEPTH OF THE SILTATION CONTROL DEVICE.

9.) REMOVE SILTATION ACCUMULATIONS IN ANY DRAINAGE PIPE AFFECTED BY CONSTRUCTION ACTIVITIES ON THE SITE PRIOR TO COMPLETION OF CONSTRUCTION.

10.) MAINTAIN ALL BERM ELEVATIONS DURING CONSTRUCTION.

11.) LOCATION OF EROSION CONTROL DEVICES MAY BE ADJUSTED DUE TO FIELD CONDITIONS.

12.) THE CONTRACTOR SHALL BE RESPONSIBLE TO SAFELY STORE EQUIPMENT, FUEL, OIL, AND OTHER HAZARDOUS DEVICES IN A MANNER TO PREVENT GREASE, OILS, FUEL, AND OTHER HAZARDOUS SUBSTANCES FROM CONTAMINATING THE STORMWATER MANAGEMENT AND COLLECTION.

13.) SILT FENCE SHOWN ON THESE PLANS SHALL BE INSTALLED ALONG THE JURISDICTIONAL LINE. IF THERE IS A BUFFER IMPACT, ALL SILT FENCE SHALL BE INSTALLED AT THE TOE OF SLOPE AS SHOWN ON THESE PLANS. NO SILT FENCE SHALL BE INSTALLED IN PRESERVED WETLANDS EXCEPT AS PROTECTION AROUND TEMPORARY IMPACTS.

14.) ALL LAKES SHALL BE SOD FROM CONTROL ELEVATION TO 2' BACK OF LAKE CONTROL LINE (TOP OF BANK).

15.) SOD A 2' WIDE STRIP BEHIND ALL CURBING AND EDGE OF PAVEMENT WHERE CURB IS NOT PRESENT.

16.) SOD AROUND ALL INLETS, JUNCTION BOXES, ETC. AND GRASS ALL SWALES.

17.) TO PROTECT OPERATOR / RESPONSIBLE AUTHORITY SHALL BERESPONSIBLE FOR THE ROUTINE INSPECTION, MAINTENANCE, REPAIR AND REMOVAL OF BMP DEVICES IN ACCORDANCE WITH CURRENT RULES AND REGULATIONS OF THE CITY OF EDGEWATER, SJRWMD AND THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT PROGRAM.

18.) SOIL TRACKING PREVENTION DEVICES TO BE LOCATED AS SHOWN ON PLANS AT ROADWAYS THAT CONNECT TO THE PROJECT.

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 PER THE DETAILS ON SHEET C 13.1

20.) NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM:

- a.) NPDES CONSTRUCTION GENERIC PERMIT COVERAGE SHALL BE OBTAINED AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION COMMENCEMENT.
- b.) A COPY OF THE CERTIFIED NPDES NOI, OR A COPY OF THE FDEP COVERAGE CONFIRMATION LETTER SHALL BE POSTED AT THE SITE IN ACCORDANCE WITH CITY OF EDGEWATER CODE.
- c.) A COPY OF THE CERTIFIED NPDES NOI, OR A COPY OF THE FDEP COVERAGE CONFIRMATION LETTER SHALL BE PROVIDED TO WATER RESOURCES IN ACCORDANCE WITH CITY OF EDGEWATER CODE.
- d.) THE SWPPP SHALL BE CERTIFIED AND A COPY OF THE CERTIFIED DOCUMENT SHALL BE SUBMITTED TO WATER RESOURCES AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION IN ACCORDANCE WITH CITY OF EDGEWATER 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 CITY OR STATE INSPECTORS PER CITY OF EDGEWATER CODE.

21.) THE DISCHARGE OF GROUNDWATER PRODUCED THROUGH DEWATERING, TO SURFACE WATERS, OR TO ANY PORTION OF THE MS4 WILL REQUIRE SEPARATE PERMITTING FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP). PERMIT(S) SHALL BE OBTAINED PRIOR TO THE COMMENCEMENT OF DEWATERING.

22.) DEWATERING DISCHARGES SHALL BE DIRECTED TO ONSITE WET DETENTION LAKES UNLESS OTHERWISE APPROVED BY S.J.R.W.M.D.

23.) EROSION AND SEDIMENTATION CONTROL BMPS 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 TURBID DISCHARGES FROM FLOWING ONTO ADJACENT PROPERTIES OR ROADWAYS, OFFSITE STORMWATER CONVEYANCES, OR OFFSITE RECEIVING WATERS. BMPS SHALL BE DESIGNED, INSTALLED AND MAINTAINED BY THE SITE OPERATOR TO ENSURE THAT OFF SITE SURFACE WATER QUALITY REMAINS CONSISTENT WITH STATE AND LOCAL REGULATIONS. (THE OPERATOR IS THE ENTITY THAT OWNS OR OPERATES THE CONSTRUCTION ACTIVITY AND HAS AUTHORITY TO CONTROL THOSE ACTIVITIES AT THE PROJECT NECESSARY TO ENSURE COMPLIANCE.

24.) OFF SITE SURFACE WATER DISCHARGES WITH TURBIDITY IN EXCESS OF 29 NEPHELOMETRIC TURBIDITY UNITS (NTUS) ABOVE BACKGROUND LEVEL SHALL BE IMMEDIATELY CORRECTED. SUCH INCIDENTS SHALL BE REPORTED TO CITY OF EDGEWATER EPC WITHIN 24 HOURS OF THE OCCURRENCE. THE REPORT SHALL INCLUDE THE CAUSE OF THE DISCHARGE AND CORRECTIVE ACTIONS TAKEN.

25.) THE OPERATOR SHALL ENSURE THAT ADJACENT PROPERTIES ARE NOT IMPACTED BY WIND EROSION, OR EMISSIONS OF UNCONFINED PARTICULATE MATTER IN ACCORDANCE WITH RULE (62-296.320(4)(c)1, F.A.C., BY TAKING APPROPRIATE MEASURES TO STABILIZE AFFECTED AREAS.

26.) FUEL AND OTHER PETROLEUM PRODUCT SPILLS THAT ENTER STORMWATER DRAINS OR WATERBODIES, OR FUEL AND OTHER PETROLEUM PRODUCT SPILLS THAT ARE IN EXCESS OF 25 GALLONS SHALL BE CONTAINED, CLEANED UP, AND IMMEDIATELY REPORTED TO CITY OF EDGEWATER. SMALLER GROUND SURFACE SPILLS SHALL BE CLEANED UP AS SOON AS PRACTICAL.

27.) IF CONTAMINATED SOIL OR AND/OR GROUNDWATER IS DISCOVERED DURING DEVELOPMENT OF THE SITE, ALL ACTIVITY IN THE VICINITY OF THE CONTAMINATION SHALL IMMEDIATELY CEASE, AND CITY OF EDGEWATER SHALL BE CONTACTED AT.

28) PRIOR TO THE START OF CLEARING AND GRUBBING, OR ANY SOIL DISTURBANCE, CITY OF EDGEWATER REVIEW STAFF SHALL BE CONTACTED FOR A SOIL EROSION AND SEDIMENT CONTROL PRE-INSPECTION MEETING.

29) NOTE TO SILT FENCE INSTALLER: TO FACILITATE "EFFECTIVE" PRESERVATION OF TREES (THOSE WITH DRIP LINES DEPICTED ON PLAN) SILT FENCE SHALL NOT BE TRENCHED IN WITHIN DRIP LINES OF TREES WHERE AVOIDABLE. IF UNAVOIDABLE THEN INSTALL SILT FENCE AT GRADE (NO TRENCHING) IN THESE LOCATIONS.

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SCALE IN FEET

CONSTRUCTION PLAN REVISIONS

1	03/20/24	REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
2	04/26/24	REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
3	06/19/24	REVISED PER CITY OF EDGEWATER COMMENTS
4	07/15/24	REVISED PER CITY OF EDGEWATER COMMENTS

YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

BEST MANAGEMENT PRACTICES PLAN

Engineering Business Certificate of Authorization No. 32771
Florida Certificate of Authorization No. LC26000838

BRANDON D. MACHIELA LICENSE NO. 90686 STATE OF FLORIDA PROFESSIONAL ENGINEER

BRANDON D. MACHIELA
FLORIDA LICENSED PROFESSIONAL ENGINEER
REGISTRATION NUMBER 90686

PROJECT No. 199-01-01

SHEET C 13.0

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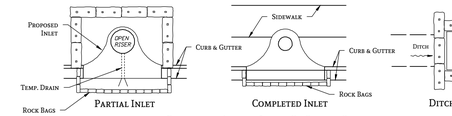
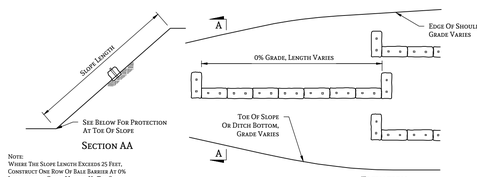
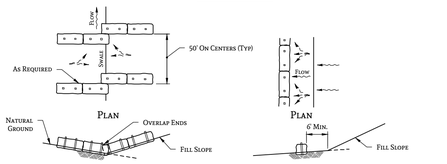


Protection Around Inlets Or Similar Structures



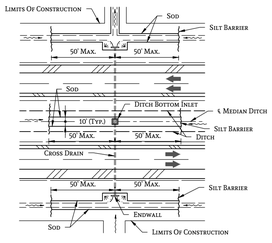
Note:
Where The Slope Length Exceeds 25 Feet, Construct One Row Of Bale Barrier At 0% Longitudinal Grade Midway Up The Slope. Construct Two Rows Of Bale Barriers Where The Slope Length Exceeds 50 Feet.

Along Fill Slope

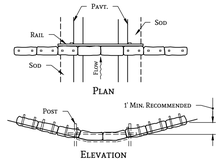


At Toe Of Slope

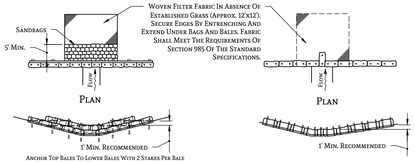
Barriers For Fill Slopes



Ditch Installations At Drainage Structures



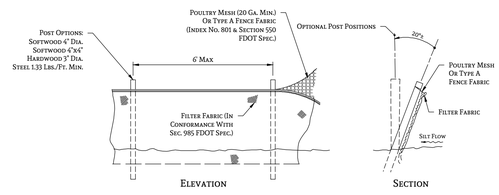
Synthetic Bales Or Bale Type Barriers For Paved Ditches

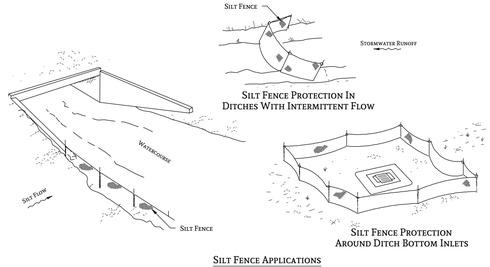


Synthetic Bales Or Bale Type Barriers For Unpaved Ditches

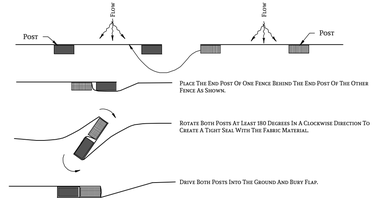
Notes For Synthetic Bales Of Bale Type Bariers

1. Type I And II Syntheitic Barrier Should Be Spaced In Accordance With Chart 1, Sheet 1
2. Bales Shall Be Trenched 3" To 4" And Anchored With 2-1" X 2" (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 E 2" X 4" Wood. Other Material 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 Contract Unit Price For Synthetic Bale, Lf. 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, CY. Rock Bags To Be Paid For Under The Contract Unit Price For Rock Bags, EA.





Silt Fence Applications



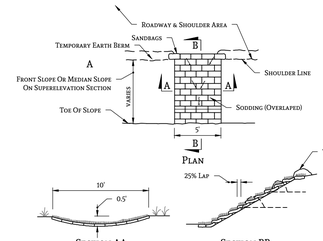
Plan View Joining Two Silt Fences

Notes For Silt Fences

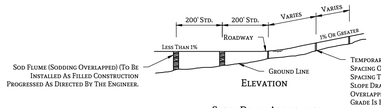
1. Type III Silt Fence To Used At Most Locations. Where Used In Ditches, The Spacing For Type Iiisilt Fence Shall Be In Accordance With Chart 1, Sheet 1.
2. Type IV Silt Fence To Be Used Where Large Sediment Loads Are Anticipated. Suggested Use Is Where Fill Slope Is 1:2 Or Steeper And Length Of Slope Exceeds 25 Feet. Avoid Use Where The Detained Water May Back Into Travel Lanes Or Off The Right Of Way.
3. Do Not Construct Silt Fences Across Permanent Flowing Watercourses. Silt Fences Are To Be 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, (Lf)

Temporary Erosion And Sediment Control

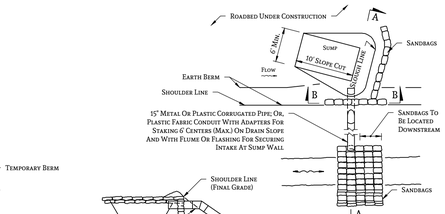
N.T.S.



Sod Flume (Sodding Overlapped)



Slope Drain Application

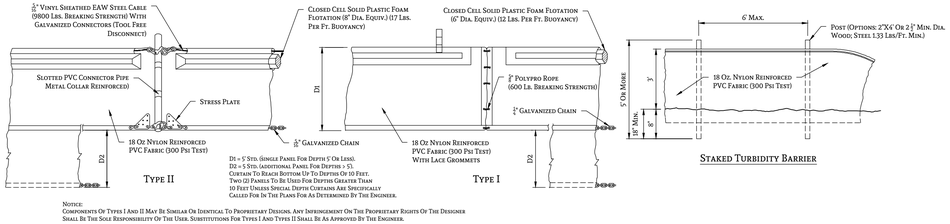


Note:
Slope Drain Pipe To Be Paid For As Slope Drains (Temporary) Lf, Based On Linear Feet Of Pipe Or Conduit Installed. Payment To Be Made For One Installation Per Site, Include One Stub And Elbow Or One Intake Flume Or Flashing. Sump Construction And Maintenance And Curtains To Be Included In Cost For Slope Drains (Temporary). Sandbags To Be Paid For As Sandbagging Cy.

Temporary Slope Drain

Temporary Slope Drain And Sod Flume

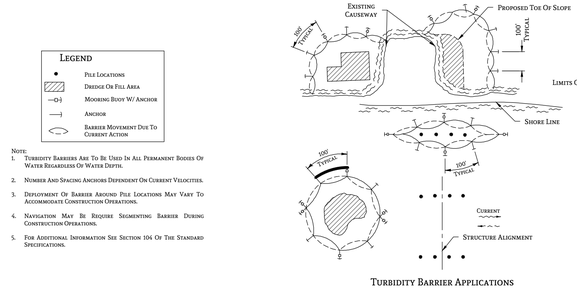
N.T.S.



Notice:
Components 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 Types II Shall Be As Approved By The Engineer.

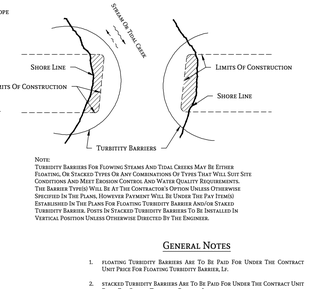
Staked Turbidity Barrier

Floating Turbidity Barrier



Note:
1. Turbidity Barriers Are To Be Used In All Permanent Bodies Of Water Regardless Of Water Depth.
2. Number And Spacing Anchors Dependent On Current Velocities.
3. Deployment Of Barrier Around Pile Locations May Vary To Accommodate Construction Operations.
4. Navigation May Be Require Segmenting Barrier During Construction Operations.
5. For Additional Information See Section 104 Of The Standard Specifications.

Turbidity Barrier Applications



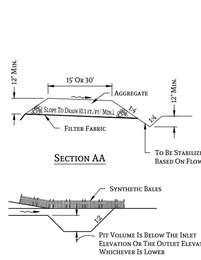
Note:
Turbidity Barriers For Flowing Steams And Tidal Creeks May Be Either Floating, Or Stacked Types Or Any Combinations Of Types That Will Suit Site Conditions And Meet Erosion Control And Water Quality Requirements. The Barrier Type(s) Will Be At The Contractor's Option Unless Otherwise Specified In The Plans, However Payment Will Be Under The Pay Item(s) Established In The Plans For Floating Turbidity Barrier And/Or Staked Turbidity Barrier. Posts In Stacked Turbidity Barriers To Be Installed In Vertical Position Unless Otherwise Directed By The Engineer.

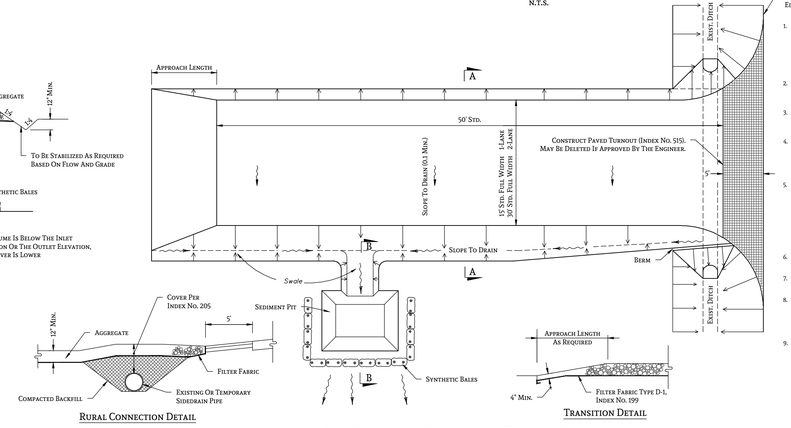
General Notes

1. floating Turbidity Barriers Are To Be Paid For Under The Contract Unit Price For Floating Turbidity Barrier, Lf.
2. stacked Turbidity Barriers Are To Be Paid For Under The Contract Unit Price For Staked Turbidity Barrier, Lf.

Turbidity Barriers

N.T.S.





Soil Tracking Prevention Device - Type A

N.T.S.

General Notes

1. A Soil Tracking Prevention Device (STPD(shall be constructed atlocations designated by the engineer for points of egress from unstabilized areas of the project to public roads. Where off-site tracking of mud could occur. Traffic from unstabilized areas of the construction project shall be directed thru a STPD. Barriers, flagging, or other positive means shall be used as required to limit and direct vehicular egress 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 FDOT size #1. If this size is not available, the next available smaller size aggregate may be substituted with the approval of the Engineer. Sizes containing excessive small aggregate will track off the project and are unsuitable.
5. The sediment pit should provide a retention volume of 3600 cubic feetcache of surface area draining to the pit. When the STPD is isolated from other drainage areas, the following pit volumes will satisfy this requirement:
   15' X 50'=100 ft. 3 30' X 50'=200 ft. 3
   As an option to the sediment pit, the width of the swale bottom can be increased to obtain the volume. When the sediment pit or swale volume has been reduced to one half, it shall be cleaned. When a swale is used, synthetic bales or silt fence shall be placed along the entire length.
6. The swale ditch draining the STPD shall have a 0.02% minimum and a 1.0% maximum grade along the STPD and to the sediment pit.
7. Mitered end sections are not required when the sidedrain pipe satisfies the clear zone requirements.
8. 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 rinsed daily when in use) to move accumulated mud downward thru the stone. Additional stabilization of the vehicular route leading to the STPD may be required to limit the mud tracked.
9. A STPD shall be paid for under the contract unit price for Soil Tracking Prevention Device, Ea. The unit price shall constitute full compensation for construction, maintenance, replacement of materials, removal, and restoration of the area utilized for the STPD; including but not limited to excavation, grading, temporary pipe (including MES when required), filter fabric, aggregate, paved turnout (including asphalt and base construction), ditch stabilization, approach route stabilization, sediment removal and disposal, water, rinsing and cleaning of the STPD and cleaning of public roads, grassing and sod. Synthetic Bale or Bale Type Barrier shall be paid for under the contract unit price for Synthetic Bales, Lf. Silt fence shall be paid for under the contract unit price for Staked Silt Fence, Lf.
10. The nominal size of a standard STPD is 15' x 50' unless otherwise shown in the plans. If the volume of entering and exiting vehicles warrant, a 30' width STPD may be used if approved by the Engineer. When a double width (30') STPD is used, the pay quantity shall be 2 for each location.

LevelUp Consulting, LLC
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www.levelupflorida.com

CONSTRUCTION PLAN REVISIONS		
1	03/29/24	REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
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3	06/19/24	REVISED PER CITY OF EDGEWATER COMMENTS
4	07/15/24	REVISED PER CITY OF EDGEWATER COMMENTS

YARDLY
EDGEWATER RIVER OAKS
CLIENT: TM BTR OF FLORIDA, LLC

BEST MANAGEMENT PRACTICES DETAILS

Engineering Business Certificate of Authorization No. 32771
Florida Certificate of Authorization No. LC26000638

BRANDON D. MACHIELA
LICENSE NO. 90686
STATE OF FLORIDA
PROFESSIONAL ENGINEER

BRANDON D. MACHIELA
FLORIDA LICENSED PROFESSIONAL ENGINEER
REGISTRATION NUMBER 90686

PROJECT No. 199-01-01

SHEET C 13.1

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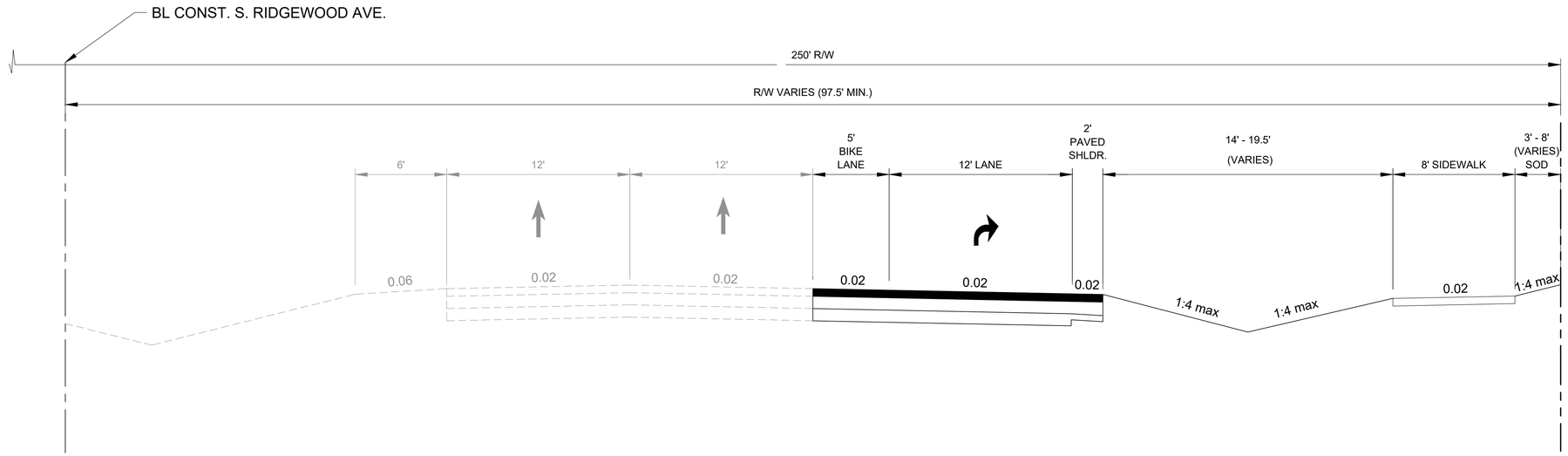

TYPICAL SECTION 1

250' RIGHT OF WAY

BL CONST. S. RIDGEWOOD AVE.
DESIGN SPEED 55 MPH
POSTED SPEED 60 MPH

NEW CONSTRUCTION

OPTIONAL BASE GROUP 9 WITH
SP 12.5 STRUCTURAL COURSE (TRAFFIC B) (3")

NEW CONSTRUCTION SN VALUE = 1.80

MILL & RESURFACE

MILL 1" AND RESURFACE WITH
FRICTION COURSE FC-5 (1") (PG 76-22)

LevelUp Consulting, LLC
505 E. Jackson Street
Suite 200
Tampa, Florida 33602
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www.levelupflorida.com

SCALE IN FEET

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YARDLY
EDGEWATER RIVER OAKS

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TYPICAL SECTION

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PROJECT No.	199-01-01
SHEET	C 14.0

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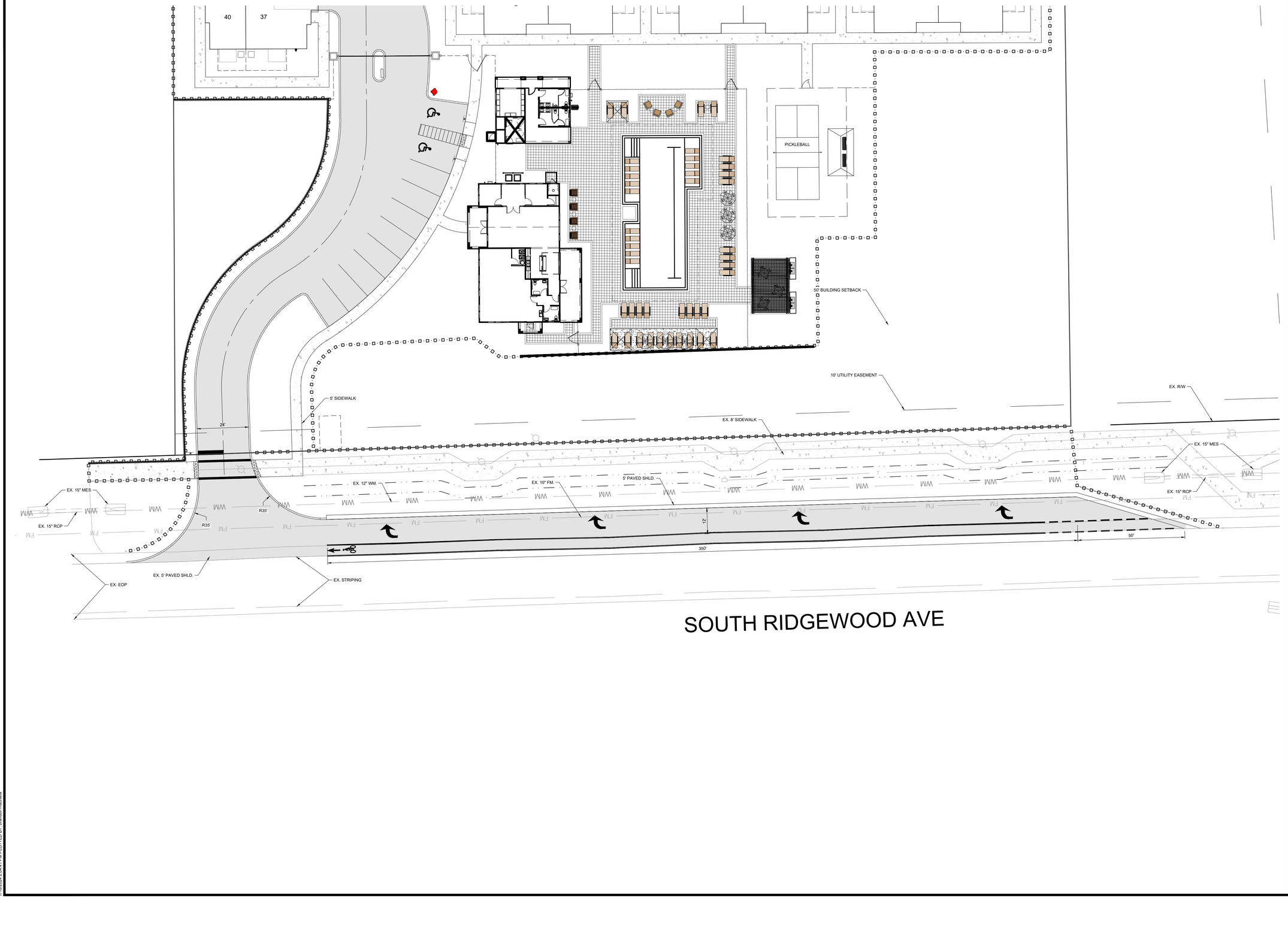

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TAMPA, FLORIDA 33602
OFFICE: 813-375-0616
WWW.LEVELUPFLORIDA.COM

0 10 20 40
SCALE IN FEET

CONSTRUCTION PLAN REVISIONS

1	03/20/24	REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
2	04/26/24	REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
3	06/19/24	REVISED PER CITY OF EDGEWATER COMMENTS
4	07/15/24	REVISED PER CITY OF EDGEWATER COMMENTS

YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

ROADWAY PLAN

Engineering Business Certificate of Authorization No. 32771
Florida Certificate of Authorization No. LC26000638

BRANDON D. MACHIELA LICENSE NO. 90686 STATE OF FLORIDA PROFESSIONAL ENGINEER

BRANDON D. MACHIELA
FLORIDA LICENSED PROFESSIONAL ENGINEER
REGISTRATION NUMBER 90686

PROJECT No. 199-01-01

SHEET C 15.0

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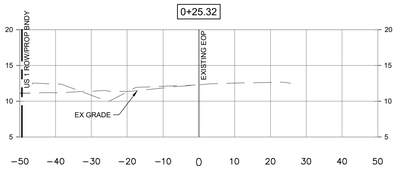

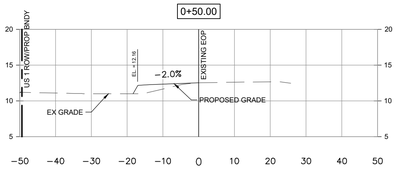

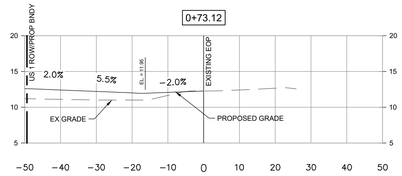

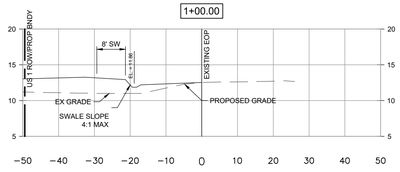

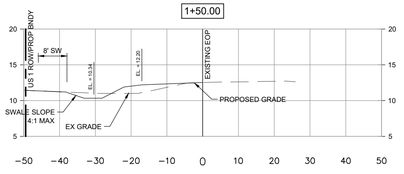

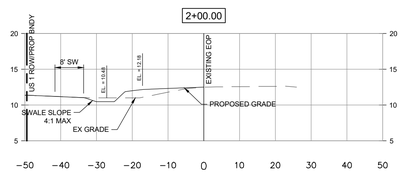

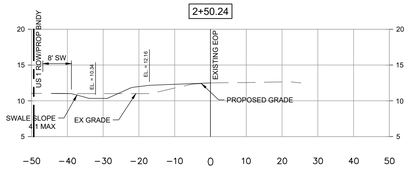

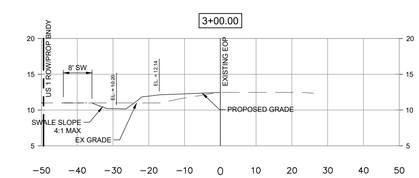

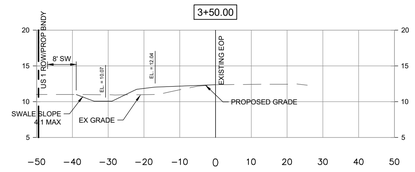

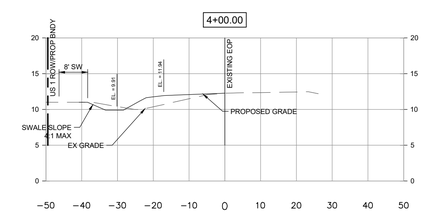

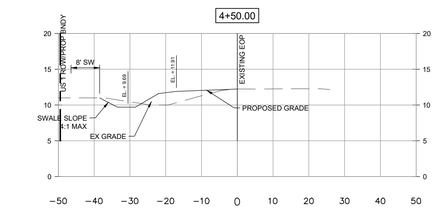

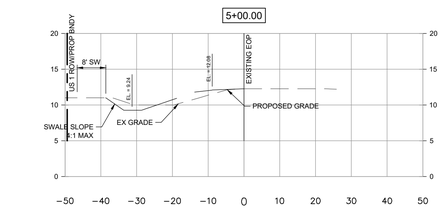

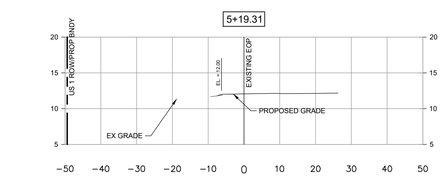

LEVELUP CONSULTING, LLC
505 E. JACKSON STREET
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0 10 20 40
SCALE IN FEET

CONSTRUCTION PLAN REVISIONS

1	03/20/24	REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
2	04/26/24	REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
3	06/19/24	REVISED PER CITY OF EDGEWATER COMMENTS
4	07/15/24	REVISED PER CITY OF EDGEWATER COMMENTS

YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

TURN LANE CROSS SECTION

Engineering Business Certificate of Authorization No. 32771
Florida Certificate of Authorization No. LC26000638

BRANDON D. MACHIELA LICENSE NO. 90686 STATE OF FLORIDA PROFESSIONAL ENGINEER

BRANDON D. MACHIELA
FLORIDA LICENSED PROFESSIONAL ENGINEER
REGISTRATION NUMBER 90686

PROJECT No. 199-01-01

SHEET C 16.0

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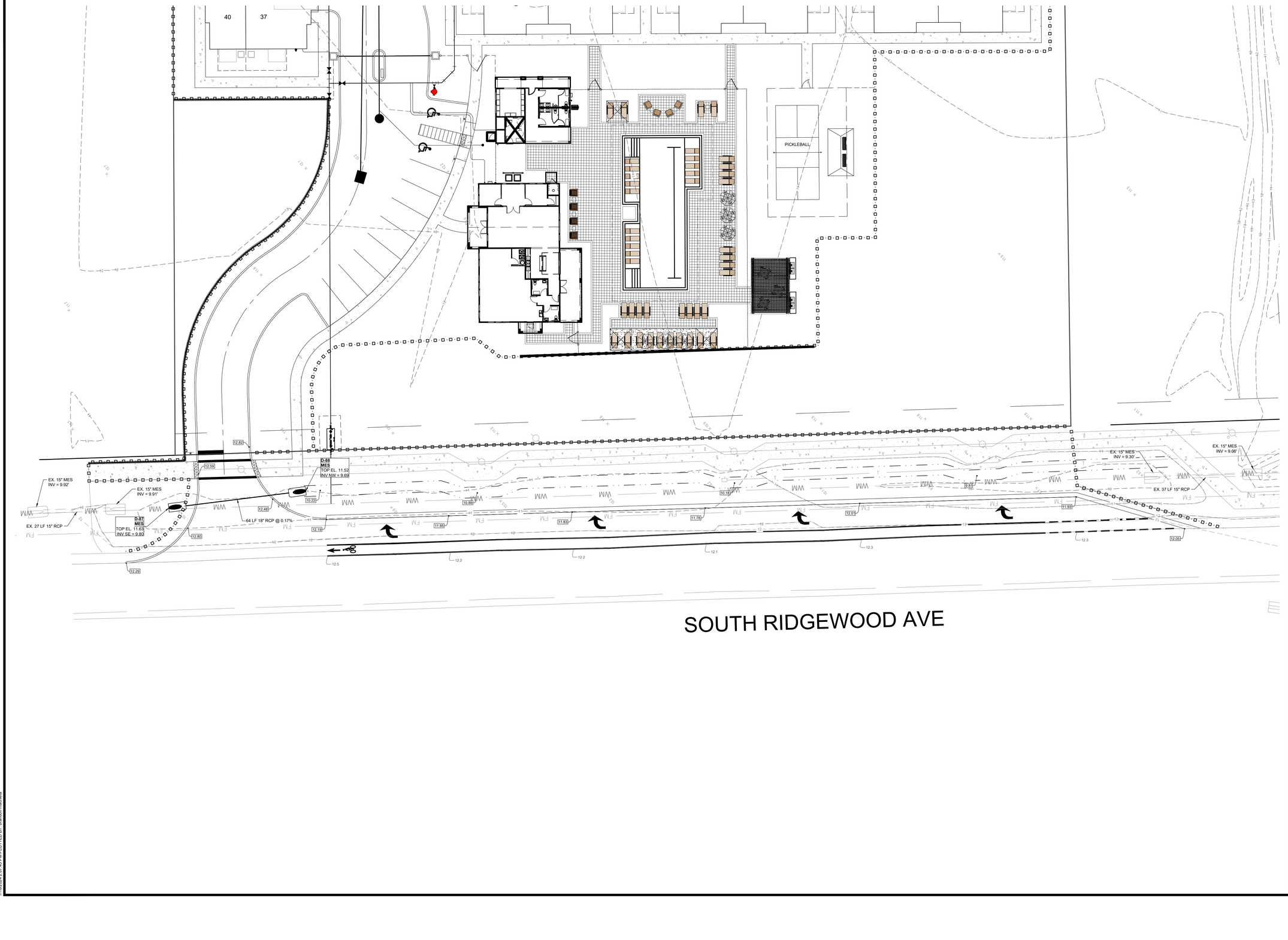

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0 10 20 40
SCALE IN FEET

CONSTRUCTION PLAN REVISIONS

1	03/20/24	REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
2	04/26/24	REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
3	06/19/24	REVISED PER CITY OF EDGEWATER COMMENTS
4	07/15/24	REVISED PER CITY OF EDGEWATER COMMENTS

YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

GRADING DETAILS

Engineering Business Certificate of Authorization No. 32771
Florida Certificate of Authorization No. LC26000638

BRANDON D. MACHIELA
LICENSE
NO. 90686
STATE OF FLORIDA
PROFESSIONAL ENGINEER

BRANDON D. MACHIELA
FLORIDA LICENSED PROFESSIONAL ENGINEER
REGISTRATION NUMBER 90686

PROJECT No. 199-01-01

SHEET C 17.0

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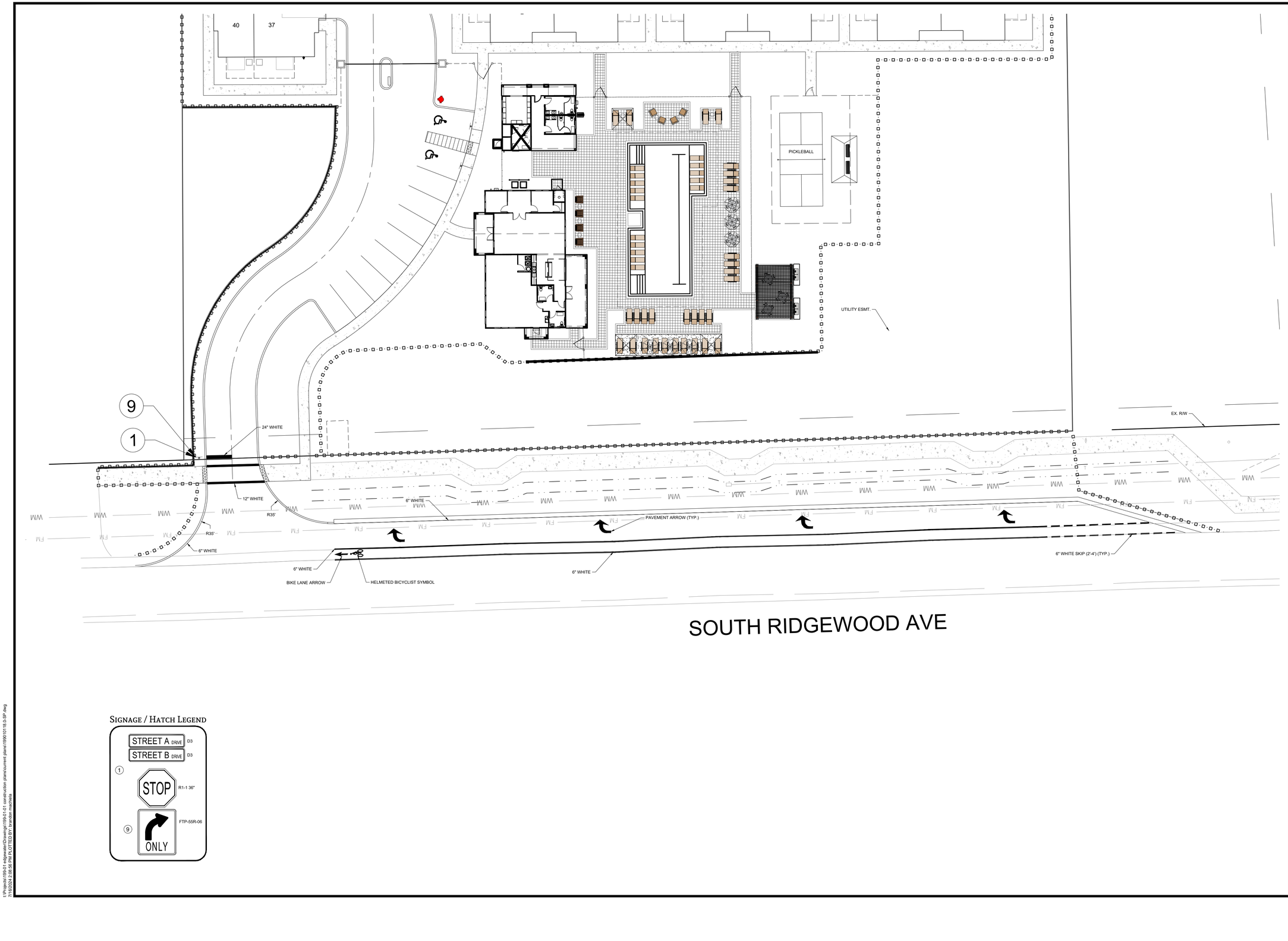

Signage / Hatch Legend

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Suite 200
Tampa, Florida 33602
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0 10 20 40
SCALE IN FEET

CONSTRUCTION PLAN REVISIONS

1	03/29/24	REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
2	04/26/24	REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
3	06/19/24	REVISED PER CITY OF EDGEWATER COMMENTS
4	07/15/24	REVISED PER CITY OF EDGEWATER COMMENTS

YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

SIGNING & MARKING PLAN TURN LANE

Engineering Business Certificate of Authorization No. 32771
Florida Certificate of Authorization No. LC26000638

BRANDON D. MACHIELA LICENSE NO. 90686 STATE OF FLORIDA PROFESSIONAL ENGINEER

BRANDON D. MACHIELA
FLORIDA LICENSED PROFESSIONAL ENGINEER
REGISTRATION NUMBER 90686

PROJECT No. 199-01-01

SHEET C 18.0

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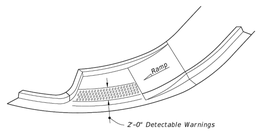
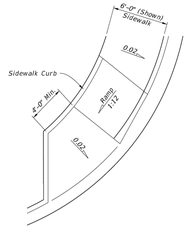
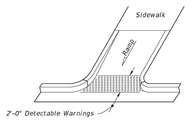


ISOMETRIC VIEW

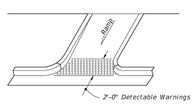


PLAN VIEW

CR-D

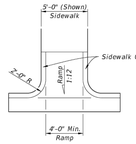


OPTION A



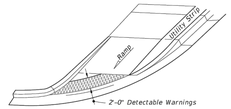
OPTION B

ISOMETRIC VIEW



PLAN VIEW

CR-E



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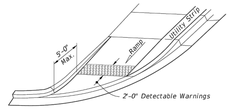

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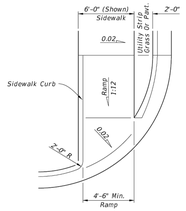
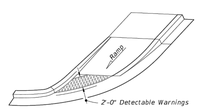


PLAN VIEW

CR-F



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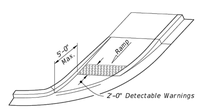

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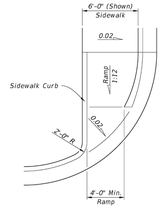
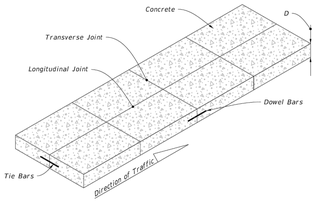


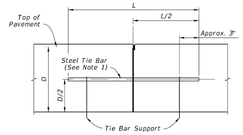
PLAN VIEW

CR-G

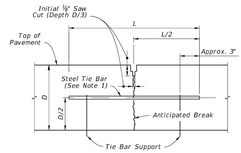
SIDEWALK CURB RAMPS CR-D, CR-E, CR-F & CR-G

LAST REVISION 11/01/21	REVISION	DESCRIPTION:	FDOT FY 2023-24 STANDARD PLANS	DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS	INDEX 522-002	SHEET 4 of 7



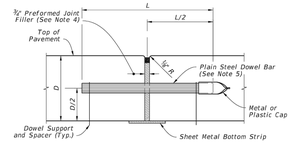


BUTT CONSTRUCTION JOINT

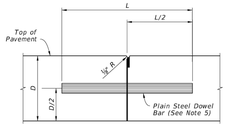


LANE-TIE JOINT

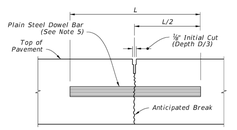
LONGITUDINAL JOINTS



EXPANSION JOINT
(See General Notes 4 and 7)

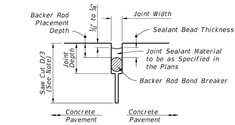


BUTT CONSTRUCTION JOINT
(Used At Discontinuance Of Work)



CONTRACTION JOINT
(Sawed Method)

TRANSVERSE JOINTS



NOTE:
(D=Conc. Pavt. Thick.) Not required for construction joints, existing joints, or cracks.

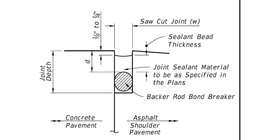
CONCRETE-CONCRETE JOINTS

BACKER ROD BOND BREAKER
(CONCRETE-CONCRETE JOINTS)

JOINT DIMENSIONS (INCHES)				
JOINT WIDTH	SEALANT BEAD THICKNESS	BACKER ROD DIA.	MINIMUM JOINT DEPTH	BACKER ROD PLACEMENT DEPTH
¼	½	⅜	1	½
⅜	½	½	1⅛	½

Unless otherwise indicated on the plans the joint width for new construction will be ¼" for construction joints, ⅜" for all other joints.

For rehabilitation projects the joint width will be shown on the plans or established by the Engineer based on field conditions.



NOTE:
"d" and "w" = ⅜", unless specified in the Plans.

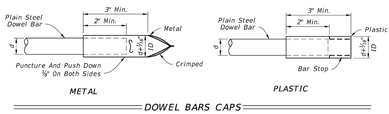
CONCRETE-ASPHALT SHOULDER JOINTS

JOINT SEAL DIMENSIONS

GENERAL NOTES:

1. For Longitudinal Joints:
   - A. Tie bars are deformed #4 or #5 reinforcing steel bars meeting the requirements of Specification 931.
   - B. Provide a tied joint with #4 bars 25" in length at 24" spacing or #5 bars 30" in length at 36" spacing.
2. Transverse joints are to be spaced at a maximum of 15'. Dowel Bars are required at all transverse joints unless otherwise noted in the plans.
3. For bridge expansion joints, see Index 370-001.
4. Punch clean holes in preformed joint filler greater than bar diameter.
5. Cast plain steel dowel bars and welded wire basket assemblies in accordance with Specification 931. Lubricate dowel bars in accordance with Specification 350.
6. New and rehabilitation projects, backer rod bond breaker is required. Shoulder must be repaired if proper joint shape can not be attained.
7. Sheet metal bottom strips in accordance with Specification 931. Not required with asphalt base.

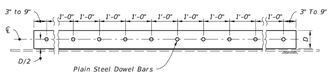
LAST REVISION 11/01/22	REVISION	DESCRIPTION:	FDOT FY 2023-24 STANDARD PLANS	CONCRETE PAVEMENT JOINTS	INDEX 350-001	SHEET 1 of 5



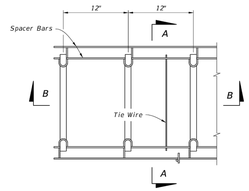
METAL

PLASTIC

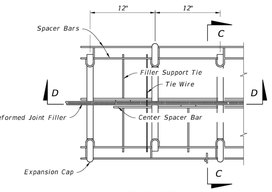
DOWEL BARS CAPS



DOWEL BAR LAYOUT

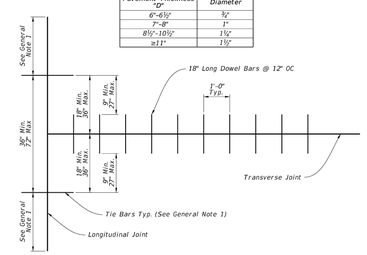


PLAN VIEW

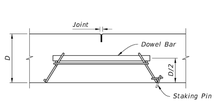


PLAN VIEW

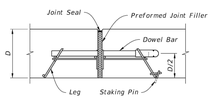
DOWEL BARS (LENGTH 18")	
Pavement Thickness "D"	Diameter
6"-6½"	¾"
7"-8"	1"
8½"-10½"	1¼"
≥11"	1½"



RELATION OF TIE BARS TO DOWEL BARS

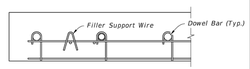


SECTION A-A



SECTION C-C

SECTION B-B

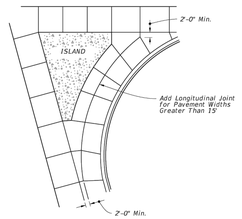


SECTION D-D

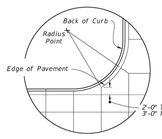
CONTRACTION ASSEMBLY

EXPANSION ASSEMBLY

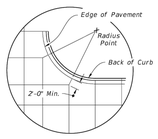
LAST REVISION 11/01/22	REVISION	DESCRIPTION:	FDOT FY 2023-24 STANDARD PLANS	CONCRETE PAVEMENT JOINTS	INDEX 350-001	SHEET 2 of 5



LARGE RIGHT TURN



DETAIL "A"



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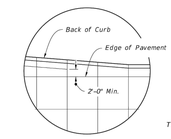

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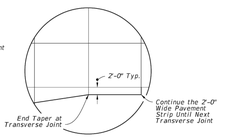
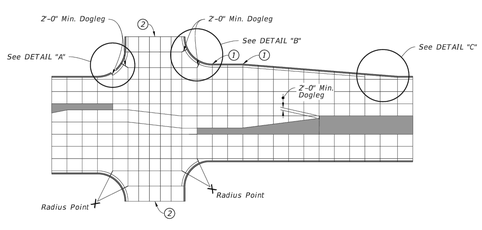
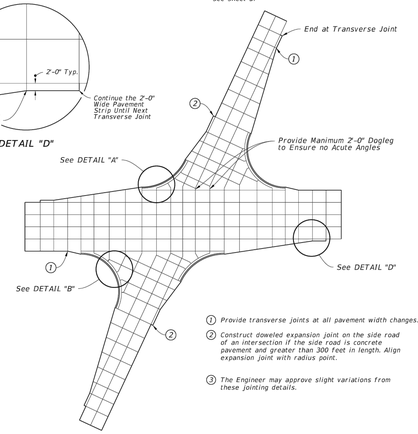


DETAIL "D"

NOTES:
1. The primary roadway controls the transverse joint pattern.
2. Align new joints with existing joints or cracks.
3. Construct transverse joints perpendicular to the roadway.
4. Adjust transverse joints to align with utility fixtures (e.g., manholes and inlets) in the pavement structure when possible.
5. Avoid slabs less than 2 feet wide or greater than 15 feet wide.
6. Avoid angles less than 60° by doglegging joints through curve radius points. Use 90° angles when possible.
7. Correlate longitudinal joints with lane lines when possible.
8. Longitudinal joints are not required for single lane pavement 14' or less in width. For entrance and exit ramp joint details, see sheet 5.



STANDARD INTERSECTION



SKEWED INTERSECTION

JOINT LAYOUTS FOR INTERSECTIONS

LAST REVISION 11/01/22	REVISION	DESCRIPTION:	FDOT FY 2023-24 STANDARD PLANS	CONCRETE PAVEMENT JOINTS	INDEX 350-001	SHEET 3 of 5

LEVELUP CONSULTING, LLC
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CONSTRUCTION PLAN REVISIONS

1	03/20/24	REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
2	04/26/24	REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
3	06/19/24	REVISED PER CITY OF EDGEWATER COMMENTS
4	07/15/24	REVISED PER CITY OF EDGEWATER COMMENTS

YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

CONSTRUCTION DETAILS TURN LANE

Engineering Business Certificate of Authorization No. 32771
Florida Certificate of Authorization No. LC26000638

BRANDON D. MACHIELA
FLORIDA LICENSED PROFESSIONAL ENGINEER
REGISTRATION NUMBER 90686

PROJECT No. 199-01-01

SHEET C 19.0

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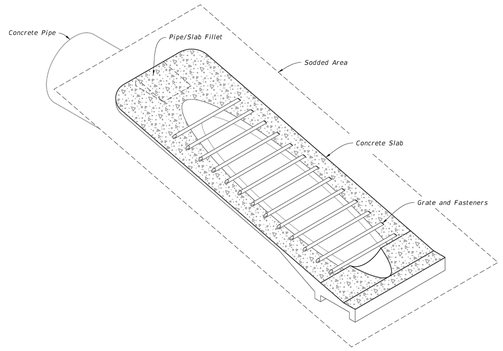
7/19/2024 2:09:21 PM PLOTTED BY brandon machiela

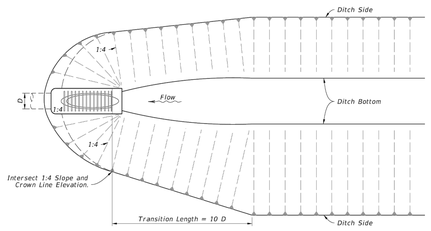
GENERAL NOTES:

1. Unless otherwise designated in the plans, concrete pipe mitered end sections may be used with any type of side drain pipe; corrugated steel pipe mitered end sections may be used with any type of side drain pipe except aluminum pipe; and, corrugated aluminum mitered end sections may be used with any type of side drain pipe except steel pipe. When bituminous coated metal pipe is specified for side drain pipe, construct the mitered end sections with like pipe or concrete pipe. When the mitered end section pipe is dissimilar to the side drain pipe, construct a concrete jacket in accordance with Index 430-001.
2. Use either corrugated metal or concrete mitered end sections for corrugated polyethylene pipe (HDPE), polyvinyl-chloride pipe (PVC), steel reinforced polyethylene pipe (SRPE), and polypropylene pipe (PP). When used in conjunction with corrugated mitered end sections, make connection using either a formed metal band specifically designated to join HDPE, PVC, SRPE, or PVC pipe. When used in conjunction with a concrete mitered end sections, construct concrete jacket in accordance with Index 430-001.
3. Use class NS concrete cast-in-place reinforced slabs for all cross drain pipes.
4. Select lengths of concrete pipe that avoid excessive connections in the assembly of the mitered end section.
5. Repair corrugated metal pipe galvanizing that is damaged during beveling and perforating.
6. When existing multiple side drain pipes are spaced other than the dimensions shown in this Index, have nonparallel axes, or non-uniform sections, either construct the mitered end sections separately as single pipe or collectively as multiple pipe end sections as directed by the Engineer.
7. Saddle Slope:
   1:4 Miter – Slope to ℄ of pipe for round pipes less than or equal to 18" diameter and 1:1 for round pipes greater than or equal to 24" diameter.
   Slope to the major axis for elliptical pipes 24"x38" or smaller and 1:2 for pipes 29"x45" or larger.
   Slope to the span line for pipe arch 28"x20" or smaller and 1:2 for pipe arch 35"x24" or larger.

   1:2 Miter – Slope to ℄ of pipe for round pipes less than or equal to 18"diameter and 1:2 for round pipes greater than or equal to 24" diameter.
   Slope to the major axis for elliptical pipes 29"x45" or smaller and 1:1 for pipes 34"x53" or larger.
   Slope 1:1 for all pipe arch sizes.
8. Quantities shown are for estimating purposes only.



SIDEDRAIN MITERED END SECTION
(Concrete Pipe Shown, Corrugated Metal Pipe Similar)



DITCH TRANSITION

TABLE OF CONTENTS:

Sheet	Description
1	General Notes and Contents
2	Single and Multiple Concrete Pipe
3	Concrete Pipe Dimensions and Quantities and Permissible Pavement Modifications
4	Single and Multiple Corrugated Metal Pipe
5	Corrugated Metal Dimensions and Quantities
6	Concrete Pipe Connection and Corrugated Metal Pipe Anchor Details
7	Fastener Unit and Grate Details

LAST REVISION	DESCRIPTION:	FDOT FY 2023-24 STANDARD PLANS	SIDE DRAIN MITERED END SECTION	INDEX	SHEET
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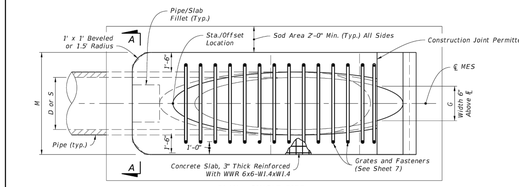
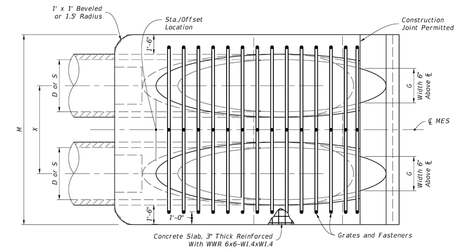
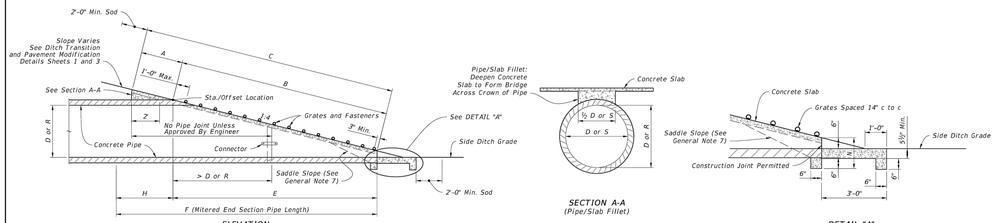


PLAN - SINGLE PIPE



PLAN - MULTIPLE PIPE



ELEVATION

SECTION A-A
(Pipe/Slab Fillet)

DETAIL "A"

ROUND CONCRETE PIPE
(Elliptical Pipe Similar)

SINGLE AND MULTIPLE CONCRETE PIPE

LAST REVISION	DESCRIPTION:	FDOT FY 2023-24 STANDARD PLANS	SIDE DRAIN MITERED END SECTION	INDEX	SHEET
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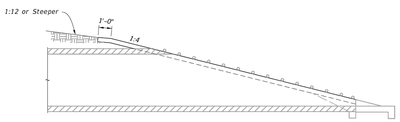
SINGLE AND MULTIPLE CONCRETE PIPE DIMENSIONS AND QUANTITIES

Pipe	Dia. D	Rise R	Span S	X	A	B	C	E	F	G	H	M Single Pipe	M Double Pipe	M Triple Pipe	M Quad. Pipe	N	GRATE SIZES STANDARD WEIGHT PIPE	GRATE SIZES EXTRA STRONG PIPE	3" CONC. SLAB (CY) Single Pipe	3" CONC. SLAB (CY) Double Pipe	3" CONC. SLAB (CY) Triple Pipe	3" CONC. SLAB (CY) Quad. Pipe	SODDING (SY) Single Pipe	SODDING (SY) Double Pipe	SODDING (SY) Triple Pipe	SODDING (SY) Quad. Pipe
Round Concrete	15"	—	—	2'-7"	2.27'	4.09'	6.36'	4.03'	8'	1.22'	4.0'	4.63'	7.21'	9.79'	12.37'	1.19'			0.76'	1.16'	1.54'	1.94'	8'	10'	11'	12'
	18"	—	—	2'-10"	2.36'	5.12'	7.48'	5.03'	9'	1.41'	4.0'	4.92'	7.75'	10.58'	13.42'	1.21'			0.85'	1.28'	1.71'	2.17'	9'	10'	12'	13'
	24"	—	—	3'-5"	2.53'	7.18'△	9.71'	7.03' △	11'	1.73'	4.0'	5.50'	8.92'	12.33'	15.75'	1.25'			1.02'	1.58'	2.15'	2.75'	10'	12'	13'	15'
	30"	—	—	4'-3"	2.70'	9.25'	11.95'	9.03'	13'	2.00'	4.0'	6.08'	10.33'	14.58'	18.83'	1.29'			1.23'	1.98'	2.74'	3.50'	12'	14'	15'	17'
	36"	—	—	5'-1"	2.83'	11.33'△	14.18'	11.03' △	15'	2.24'	4.0'	6.67'	11.75'	16.83'	21.92'	1.33'			1.40'	2.38'	3.33'	4.24'	13'	15'	17'	20'
	42"	—	—	6'-0"	3.05'	13.37'	16.42'	13.03'	17'	2.45'	4.0'	7.25'	13.25'	19.25'	25.25'	1.38'			1.60'	2.83'	4.04'	5.26'	14'	17'	19'	22'
	48"	—	—	6'-9"	3.22'	15.43'	18.65'	15.03'	19'	2.65'	4.0'	7.83'	14.58'	21.33'	28.08'	1.42'			1.81'	3.26'	4.70'	6.14'	15'	18'	21'	24'
	54"	—	—	7'-8"	3.39'	17.49'	20.88'	17.03'	21'	2.83'	4.0'	8.42'	16.08'	23.75'	31.42'	1.46'		3"	2.03'	3.78'	5.54'	7.28'	17'	20'	23'	27'
	60"	—	—	8'-6"	3.56'	19.55'	23.11'	19.03'	23'	3.00'	4.0'	9.00'	17.50'	26.00'	34.50'	1.50'		3"	2.28'	4.36'	6.43'	8.50'	18'	22'	25'	29'
Elliptical Concrete	—	12"	18"	2'-10"	2.36'	3.06'	5.42'	3.03'	5'	1.50'	2.0'	4.92'	7.75'	10.58'	13.42'	1.21'			0.68'	1.04'	1.41'	1.77'	8'	9'	11'	12'
	—	14"	23"	3'-4"	2.44'	3.75'	6.19'	3.70'	6'	1.90'	2.3'	5.38'	8.71'	12.04'	15.38'	1.23'			0.76'	1.19'	1.63'	2.05'	9'	10'	12'	13'
	—	19"	30"	4'-0"	2.62'	5.47'	8.09'	5.36'	8'	2.37'	2.6'	6.04'	10.04'	14.04'	18.04'	1.27'	2½"	3"	0.95'	1.52'	2.09'	2.65'	10'	12'	13'	15'
	—	24"	38"	5'-0"	2.79'	7.18'	9.97'	7.03'	10'	2.85'	3.0'	6.79'	11.79'	16.79'	21.79'	1.31'	2½"	3"	1.18'	1.95'	2.74'	3.53'	11'	13'	15'	18'
	—	29"	45"	5'-11"	3.05'	8.90'	11.95'	8.70'	12'	3.19'	3.3'	7.50'	13.42'	19.33'	25.25'	1.38'	2½"	3½"	1.41'	2.42'	3.44'	4.45'	12'	15'	18'	20'
	—	34"	53"	7'-0"	3.22'	10.62'	13.84'	10.36'	13'	3.57'	2.6'	8.25'	15.25'	22.25'	29.25'	1.42'	3"	3½"	1.63'	2.92'	4.22'	5.52'	13'	17'	20'	23'
	—	38"	60"	7'-10"	3.39'	11.99'	15.38'	11.70'	15'	3.95'	3.3'	8.92'	16.75'	24.58'	32.42'	1.46'	3"	4"	1.83'	3.36'	4.89'	6.41'	14'	18'	21'	25'
	—	43"	68"	8'-11"	3.56'	13.71'	17.27'	13.36'	17'	4.28'	3.6'	9.67'	18.58'	27.50'	36.42'	1.50'	3"	4"	2.09'	3.95'	5.80'	7.65'	16'	20'	23'	27'
	—	48"	76"	9'-11"	3.73'	15.43'	19.16'	15.03'	19'	4.59'	4.0'	10.42'	20.38'	30.25'	40.17'	1.54'	3"	HSS 9"x9"x¼"	2.37'	4.54'	6.73'	8.92'	17'	21'	26'	30'
	—	53"	83"	10'-8"	3.91'	17.15'	21.06'	16.70'	20'	4.77'	3.3'	11.08'	21.75'	32.42'	43.08'	1.58'	3"	HSS 9"x9"x⅜"	2.61'	5.09'	7.56'	10.03'	18'	23'	27'	32'
	—	58"	91"	11'-8"	4.08'	18.87'	22.95'	18.36'	22'	5.01'	3.6'	11.83'	23.50'	35.17'	46.83'	1.63'	3½"	HSS 9"x9"x⅜"	2.91'	5.77'	8.64'	11.50'	19'	24'	29'	35'

△6.42' △6.25' Dimensions permitted to allow use of 8' standard pipe lengths.
◇10.40' ◇10.10' Dimensions permitted to allow use of 12' standard pipe lengths.



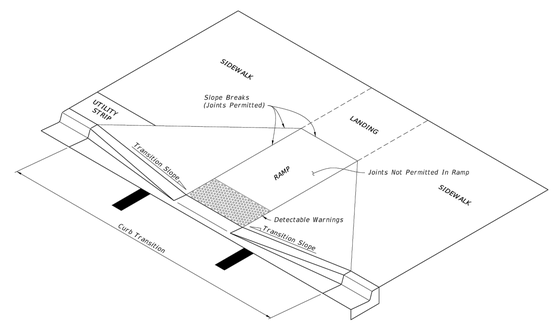
PERMISSIBLE PAVEMENT MODIFICATION

CONCRETE PIPE DIMENSIONS AND QUANTITIES AND PERMISSIBLE PAVEMENT MODIFICATION

LAST REVISION	DESCRIPTION:	FDOT FY 2023-24 STANDARD PLANS	SIDE DRAIN MITERED END SECTION	INDEX	SHEET
11/01/19				430-022	3 of 7

GENERAL NOTES:

1. Cross Slopes and Grades:
   A. Sidewalk, ramp, and landing slopes (i.e. 0.02, 0.05, and 1:12) shown in this Index are maximums. With approval of the Engineer, provide the minimum feasible slope where the requirements cannot be met.
   B. Landings must have cross-slopes less than or equal to 0.02 in any direction.
   C. Maintain a single longitudinal slope along each side of the curb ramp. Ramp slopes are not required to exceed 15 feet in length.
   D. Joints permitted at the location of Slope Breaks. Otherwise locate joints in accordance with Index 522-001. No joints are permitted within the ramp portion of the Curb Ramp.
2. Curb, Curb and Gutter and/or Sidewalk:
   A. Refer to Index 522-001 for concrete thickness and sidewalk details.
   B. Remove any existing curb, curb and gutter, or sidewalk to the nearest joint beyond the curb transition or to the extent that no remaining section is less than 5 feet long.
   C. Width of Curb Ramp is 4'-0" minimum. Match sidewalk or Shared Use Path width as shown in the Plans.
3. Curb Ramp Alpha-Identification:
   A. Sidewalk curb ramp alpha-identifications (e.g. CR-A) are provided for reference purposes in the Plans.
   B. Alpha-identifications CR-I and CR-J are intentionally omitted.
4. Detectable Warnings:
   A. Install detectable warnings in accordance with Specification 527.
   B. Place detectable warnings across the full width of the ramp or landing, to a minimum depth of 2 feet measured perpendicular to the curb line and no greater than 5 feet from the back of the curb or edge of pavement.
   C. If detectable warnings are shown in the Plans on slopes greater than 5%, align the truncated domes with the centerline of the ramp; otherwise, the truncated domes are not required to be aligned.



CURB RAMP NOMENCLATURE

LAST REVISION	DESCRIPTION:	FDOT FY 2023-24 STANDARD PLANS	DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS	INDEX	SHEET
11/01/21				522-002	1 of 7

LEVELUP CONSULTING, LLC
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TAMPA, FLORIDA 33602
OFFICE: 813-375-0616
WWW.LEVELUPFLORIDA.COM

CONSTRUCTION PLAN REVISIONS

A	03/29/24	REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
A	04/26/24	REVISED PER CITY OF EDGEWATER & FDOT COMMENTS
A	06/19/24	REVISED PER CITY OF EDGEWATER COMMENTS
A	07/15/24	REVISED PER CITY OF EDGEWATER COMMENTS

YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

CONSTRUCTION DETAILS TURN LANE

Engineering Business Certificate of Authorization No. 32771
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BRANDON D. MACHIELA
LICENSE NO. 90686
STATE OF FLORIDA
PROFESSIONAL ENGINEER

BRANDON D. MACHIELA
FLORIDA LICENSED PROFESSIONAL ENGINEER
REGISTRATION NUMBER 90686

PROJECT No. 199-01-01

SHEET C 19.1

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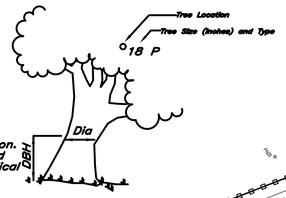
TREE REMOVAL NOTES:

1. TREE REMOVAL/REPLACEMENT AND LANDSCAPING WILL BE IN ACCORDANCE WITH SECTION(S) 21-55.03 OF CITY OF EDGEWATER LDC.

TREE PLACEMENT NOTES:

1. TREES MAY NOT BE PLACED WITHIN 10FT OF FM.
2. TREES MAY NOT BE PLACED WITHIN 10FT OF UTILITIES.
3. TREES SHALL NOT BE PLACED WITHIN 10FT OF ANY POTABLE WATER MAIN, RECLAIMED WATER MAIN, SANITARY FORCE MAIN, GRAVITY SANITARY SEWER MAIN, SANITARY CLEANOUTS, OR POTABLE/ RECLAIMED/ FORCE MAIN APPURTENANCES SUCH AS METERS, HYDRANTS, BACKFLOW PREVENTION ASSEMBLIES, ETC.

NOTE: Trees by nature are irregular in size and shape. Every effort is made to accurately locate trees. The tree size is determined at diameter breast height. The tree location is the center of the tree. This location may be different if located from a different direction. All tree locations should be field checked if critical to design.



TREE LEGEND

AP	AUSTRALIAN PINE	NP	NORFOLK PINE
C	CYPRESS	P	LONGLEAF PINE
CL	CHERRY LAUREL	PC	PECAN
CM	CAMPHOR	PE	PERSIMMON
CO	COCONUT PALM	PM	ROYAL PALM
CP	CABBAGE PALM (SABAL PALM)	PT	PAPER TREE
EL	ELM	QP	QUEEN PALM
F	FIG (STRANGLER FIG)	RB	RED BAY
FW	FIDDLEWOOD	RM	RED MAPLE
H	HICKORY	SB	SWEET BAY MAGNOLIA
LA	LAUREL OAK (DIAMOND OAK)	SC	SYCAMORE
LB	LOBLOLLY BAY	SG	SWEET GUM
LI	LIVE OAK	SL	SLASH PINE (YELLOW PINE)
M	MAGNOLIA	SP	SAND PINE (SCRUB PINE)
MB	MARLBERRY	T	TALLOW WOOD
MG	SOUTHERN MAGNOLIA	TO	TURKEY OAK
MH	MAHOGANY	WO	WATER OAK
MY	MYRTLE OAK	WP	WASHINGTON PALM
		WX	WAX MYRTLE

14 WO — DEMO TREE
19 LI — SAVED TREE

DRY POND 2
(1.58 AC.)
TOB = 14.00
DHW_{100} = 12.88
DHW_{25} = 12.85
DHW_{10} = 12.84
BOT = 9.50

WET POND 3
(0.64 AC.)
TOB = 12.10
DHW_{100} = 9.13
DHW_{25} = 8.30
DHW_{10} = 7.96
NWL = 6.50
BOT = -5.50

DRY POND 1
(0.15 AC.)
TOB = 14.00
DHW_{100} = 12.88
DHW_{25} = 12.85
DHW_{10} = 12.84
BOT = 9.50

DRY POND 4
(0.14 AC.)
TOB = 10.00
DHW_{100} = 9.09
DHW_{25} = 8.90
DHW_{10} = 8.80
BOT = 7.50

DOG PARK

0 30 60 120
SCALE IN FEET

LEVELUP CONSULTING, LLC
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OFFICE: 813-375-0616
WWW.LEVELUPFLORIDA.COM

CONSTRUCTION PLAN REVISIONS

YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

EXISTING VEGETATION PLAN

Engineering Business Certificate of Authorization No. 32771
Florida Certificate of Authorization No. LC26000638

REGISTERED LANDSCAPE ARCHITECT
BRIDGER E. DEMARS
LA 6667420
STATE OF FLORIDA

BRIDGER E. DEMARS
REGISTERED LANDSCAPE ARCHITECT
REGISTRATION NUMBER 6667420

PROJECT No. 199-01-01

SHEET L 1.0

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BUFFER NOTES:

1. ROADWAY BUFFERS SHALL NOT BE LOCATED IN POTENTIAL FUTURE RIGHT OF WAY RESERVATION SETBACKS. ALL BUFFERS SHALL BE EXCLUSIVE OF ANY RIGHT-OF-WAY OR FUTURE DEDICATIONS.

VEHICLE USE AREAS (OVER 1,000 SF) (3500 LF)

REQUIRED: 360 SQUARE FEET OF PLANTING AREA
CANOPY TREE - 4 PER 20 PARKING SPACES
SHRUBS - 20 PER 20 PARKING SPACES
NO MORE THAN 10 CONSECUTIVE PARKING SPACES SHALL BE ALLOWED WITHOUT AN INTERIOR LANDSCAPE ISLAND IN VEHICLE USE AREAS PER LDC SECTION 701.3.A.4

SIGHT DISTANCE CALCULATIONS		
S RIDGEWOOD AVE		
DESIGN SPEED	TIME GAP	ISD
(V) (MPH)	(tg) (SEC)	(FT)
60	11.5	1014.3
POSTED SPEED = 50MPH		
ISD= 1.47*V*tg		
FLORIDA GREENBOOK SECTION C.9.b.4		

10' WIDE GREENBELT BUFFER (1530 LF)

REQUIRED: 2 CANOPY TREE EVERY 100FT (MIN 2.5" CAL.)
3 UNDERSTORY TREES (MIN 2.5" CAL.)
20 SHRUBS EVERY 100FT (MIN 18" HEIGHT)
6' FENCE

NEIGHBORHOOD FOCAL POINT

S RIDGEWOOD AVE INTERSECTION LIMIT OF CLEAR SIGHT

50' WIDE ROADWAY BUFFER (420 LF)

BUFFER REQUIREMENTS COVERED BY PRESERVATION OF EXISTING TREES

15' WIDE GREENBELT BUFFER (1800 LF)

REQUIRED: 3 CANOPY TREE EVERY 100FT (MIN 2.5" CAL.)
3 UNDERSTORY TREES (MIN 2.5" CAL.)
30 SHRUBS EVERY 100FT (MIN 18" HEIGHT)
6' FENCE

L3.1 L3.2 L3.3 L3.4 L3.5 L3.6

30' VISIBILITY TRIANGLE (TYP.)

JONES FISH CAMP RD INTERSECTION LIMIT OF CLEAR SIGHT

SIGHT DISTANCE CALCULATIONS		
JONES FISH CAMP RD		
DESIGN SPEED	TIME GAP	ISD
(V) (MPH)	(tg) (SEC)	(FT)
35	11.5	591.675
POSTED SPEED = 30MPH		
ISD= 1.47*V*tg		
FLORIDA GREENBOOK SECTION C.9.b.4		

VEHICLE USE AREAS LANDSCAPING

REQUIRED: MAX 10 PARKING SPACES BEFORE A 10' PLANTING ISLAND

S RIDGEWOOD AVE

JONES FISH CAMP RD

CLINTON CEMETARY RD

0 40 80 160
SCALE IN FEET

CONSTRUCTION PLAN REVISIONS

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YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

LANDSCAPE PLAN

Engineering Business Certificate of Authorization No. 32771
Florida Certificate of Authorization No. LC26000638

REGISTERED LANDSCAPE ARCHITECT BRIDGER E. DEMARS LA 6667420 STATE OF FLORIDA

BRIDGER E. DEMARS
REGISTERED LANDSCAPE ARCHITECT
REGISTRATION NUMBER 6667420

PROJECT No.	199-01-01
SHEET	L 3.0

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MATCHLINE - SEE SHEET L 3.2

MONUMENT SIGNAGE

10 Lagerstroemia indica
Crape Myrtle

PICKLEBALL

SOUTH RIDGEWOOD AVE

27 Sabal palmetto
Cabbage Palm

22 Quercus virginiana
Southern Live Oak

4 Magnolia grandiflora 'D.D. Blanchard'
D.D. Blanchard Southern Magnolia
6 Lagerstroemia indica
Crape Myrtle
57 Hamelia patens' Compacta'
Dwarf Fire Bush
75 Viburnum obovatum
Walter's Viburnum

5 Sabal palmetto
Cabbage Palm
4 Quercus virginiana
Southern Live Oak

MATCHLINE - SEE SHEET L 3.4

0 10 20 40
SCALE IN FEET

CONSTRUCTION PLAN REVISIONS

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YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

LANDSCAPE PLAN

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Florida Certificate of Authorization No. LC26000638

REGISTERED LANDSCAPE ARCHITECT
BRIDGER E. DEMARS
LA 6667420
STATE OF FLORIDA

BRIDGER E. DEMARS
REGISTERED LANDSCAPE ARCHITECT
REGISTRATION NUMBER 6667420

PROJECT No. 199-01-01

SHEET L 3.1

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CONSTRUCTION PLAN REVISIONS

YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

LANDSCAPE PLAN

Engineering Business Certificate of Authorization No. 32771
Florida Certificate of Authorization No. LC26006638

REGISTERED LANDSCAPE ARCHITECT
BRIDGER E. DEMARS
LA 6667420
STATE OF FLORIDA

BRIDGER E. DEMARS
REGISTERED LANDSCAPE ARCHITECT
REGISTRATION NUMBER 6667420

PROJECT No.	199-01-01
SHEET	L 3.2

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MATCHLINE - SEE SHEET L 3.2

MATCHLINE - SEE SHEET L 3.6

MATCHLINE - SEE SHEET L 3.4

2 | Magnolia grandiflora `D.D. Blanchard'
D.D. Blanchard Southern Magnolia

44 | Serenoa repens 'Cinerea'
Silver Saw Palmetto

2 | Quercus virginiana
Southern Live Oak

6 | Pinus elliotti
Slash Pine

38 | Sabal palmetto
Cabbage Palm

4 | Taxodium distichum
Bald Cypress

1 | Lagerstroemia indica
Crape Myrtle

1 | Lagerstroemia indica
Crape Myrtle

DOG WASTE STATION

PN20 PN18 PN16 PN14/14 OK12 OK11

FIRE LANE

FIRE LANE

FIRE LANE

9.5 10.0 11.0 12.0 13.0 14.0

0 10 20 40
SCALE IN FEET

CONSTRUCTION PLAN REVISIONS

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YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

LANDSCAPE PLAN

Engineering Business Certificate of Authorization No. 32771
Florida Certificate of Authorization No. LC26000638

REGISTERED LANDSCAPE ARCHITECT
BRIDGER E. DEMARS
LA 6667420
STATE OF
FLORIDA

BRIDGER E. DEMARS
REGISTERED LANDSCAPE ARCHITECT
REGISTRATION NUMBER 6667420

PROJECT No. 199-01-01

SHEET L 3.3

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MATCHLINE - SEE SHEET L 3.3

MATCHLINE - SEE SHEET L 3.1

MATCHLINE - SEE SHEET L 3.5

58 Sabal palmetto
Cabbage Palm

1 Lagerstroemia indica
Crape Myrtle

DOG PARK

DOG WASTE STATION

KARE LANE

9 Lagerstroemia indica
Crape Myrtle

21 Quercus virginiana
Southern Live Oak

96 Hamelia patens' Compacta'
Dwarf Fire Bush

6 Magnolia grandiflora `D.D. Blanchard`
D.D. Blanchard Southern Magnolia

100 Viburnum obovatum
Walter`s Viburnum

12 Lagerstroemia indica
Crape Myrtle

0 10 20 40
SCALE IN FEET

CONSTRUCTION PLAN REVISIONS

LEVELUP CONSULTING, LLC
LVLUP
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YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

LANDSCAPE PLAN

Engineering Business Certificate of Authorization No. 32771
Florida Certificate of Authorization No. LC26000638

STATE OF FLORIDA REGISTERED LANDSCAPE ARCHITECT BRIDGER E. DEMARS LA 6667420

BRIDGER E. DEMARS
REGISTERED LANDSCAPE ARCHITECT
REGISTRATION NUMBER 6667420

PROJECT No.	199-01-01
SHEET	L 3.4

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MATCHLINE - SEE SHEET L 3.6

MATCHLINE - SEE SHEET L 3.4

DOG WASTE STATION

DRY POND 1
(0.15 AC.)
TOB = 14.00
DHW_{100} = 12.88
DHW_{25} = 12.85
DHW_{10} = 12.84
BOT = 9.50

DRY POND 4
(0.14 AC.)
TOB = 10.00
DHW_{100} = 9.09
DHW_{25} = 8.90
DHW_{10} = 8.80
BOT = 7.50

1 Taxodium distichum
Bald Cypress

22 Quercus virginiana
Southern Live Oak

14 Sabal palmetto
Cabbage Palm

114 Viburnum obovatum
'Walter's Viburnum

7 Magnolia grandiflora 'D.D. Blanchard'
D.D. Blanchard Southern Magnolia

112 Hamelia patens' Compacta'
Dwarf Fire Bush

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0 10 20 40
SCALE IN FEET

CONSTRUCTION PLAN REVISIONS

YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

LANDSCAPE PLAN

Engineering Business Certificate of Authorization No. 32771
Florida Certificate of Authorization No. LC26000638

REGISTERED LANDSCAPE ARCHITECT BRIDGER E. DEMARS LA 6667420 STATE OF FLORIDA

BRIDGER E. DEMARS
REGISTERED LANDSCAPE ARCHITECT
REGISTRATION NUMBER 6667420

PROJECT No. 199-01-01

SHEET L 3.5

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81 | Serenoa repens 'Cinerea'
Silver Saw Palmetto

4 | Quercus virginiana
Southern Live Oak

3 | Magnolia grandiflora `D.D. Blanchard'
D.D. Blanchard Southern Magnolia

10 | Pinus elliotti
Slash Pine

6FT STABILIZED PATH

DOG WASTE STATION

10 | Taxodium distichum
Bald Cypress

1 | Taxodium distichum
Bald Cypress

WET POND 3
(0.64 AC.)
TOB = 12.10
DHW_{100} = 9.13
DHW_{25} = 8.30
DHW_{10} = 7.96
NWL = 6.50
BOT = -5.50

DRY POND 2
(1.58 AC.)
TOB = 14.00
DHW_{100} = 12.88
DHW_{25} = 12.85
DHW_{10} = 12.84
BOT = 9.50

MATCHLINE - SEE SHEET L 3.3

MATCHLINE - SEE SHEET L 3.5

0 10 20 40
SCALE IN FEET

CONSTRUCTION PLAN REVISIONS

LEVELUP CONSULTING, LLC
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YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

LANDSCAPE PLAN

Engineering Business Certificate of Authorization No. 32771
Florida Certificate of Authorization No. LC26000638

REGISTERED LANDSCAPE ARCHITECT BRIDGER E. DEMARS LA 6667420 STATE OF FLORIDA

BRIDGER E. DEMARS
REGISTERED LANDSCAPE ARCHITECT
REGISTRATION NUMBER 6667420

PROJECT No. 199-01-01

SHEET L 3.6

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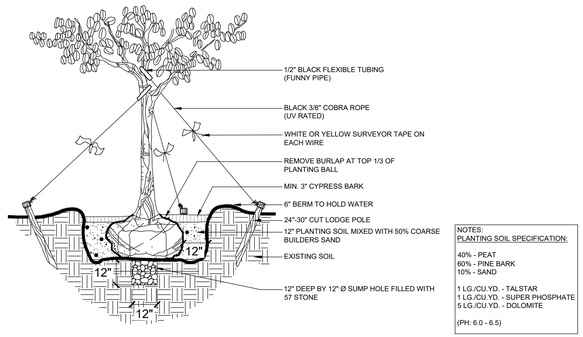


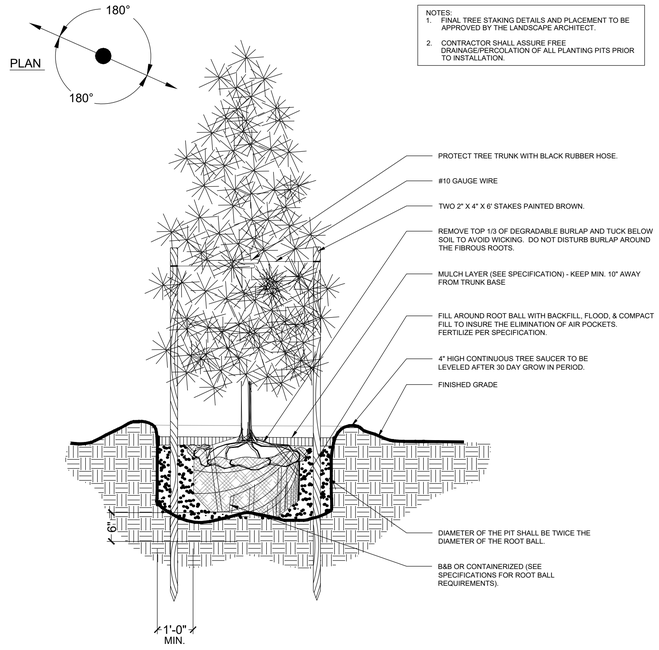
NOTES:
PLANTING SOIL SPECIFICATION:

40% - PEAT
60% - PINE BARK
10% - SAND

1 LG./CU.YD. - TALSTAR
1 LG./CU.YD. - SUPER PHOSPHATE
5 LG./CU.YD. - DOLOMITE

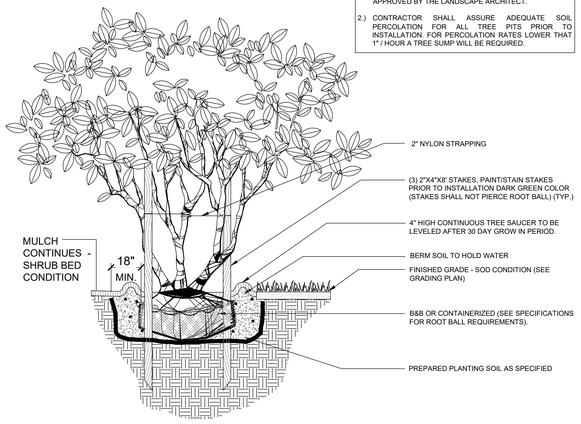
(PH: 6.0 - 6.5)

D MAGNOLIA TREE
SCALE: N.T.S.



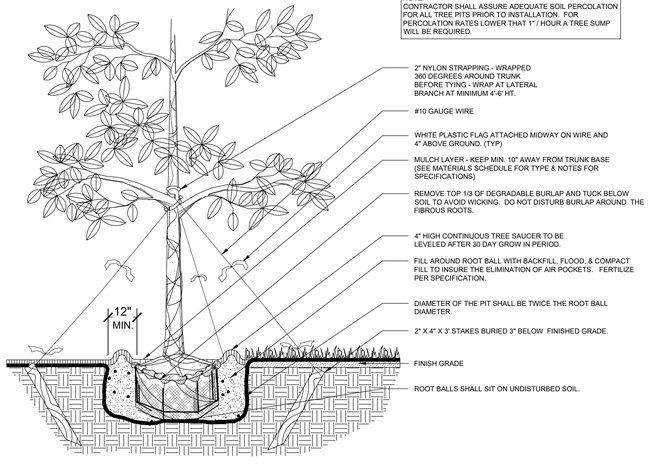
NOTES:
1. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY THE LANDSCAPE ARCHITECT.
2. CONTRACTOR SHALL ASSURE FREE DRAINAGE/PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.

E SMALL TREE INSTALLATION
SCALE: N.T.S.



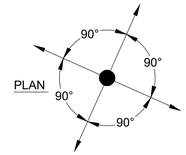
NOTES:
1.) FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY THE LANDSCAPE ARCHITECT.
2.) CONTRACTOR SHALL ASSURE ADEQUATE SOIL PERCOLATION FOR ALL TREE PITS PRIOR TO INSTALLATION. FOR PERCOLATION RATES LOWER THAT 1" / HOUR A TREE SUMP WILL BE REQUIRED.

A MULTI-TRUNK TREE INSTALLATION & STAKING
SCALE: N.T.S.

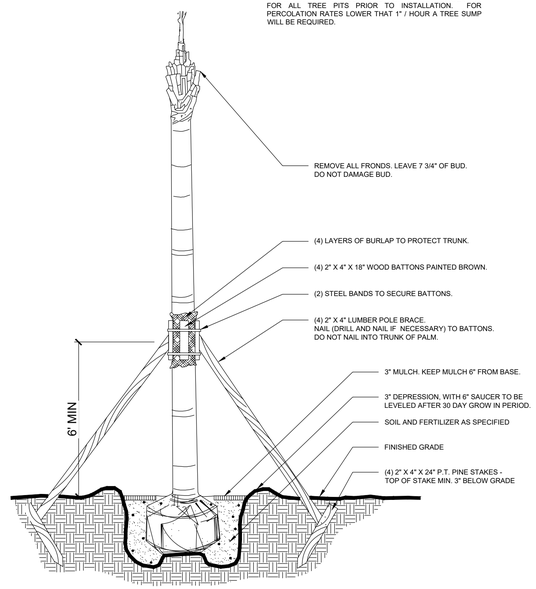


NOTE:
CONTRACTOR SHALL ASSURE ADEQUATE SOIL PERCOLATION FOR ALL TREE PITS PRIOR TO INSTALLATION. FOR PERCOLATION RATES LOWER THAT 1" / HOUR A TREE SUMP WILL BE REQUIRED.

B LARGE TREE INSTALLATION & STAKING
SCALE: N.T.S.



NOTE:
CONTRACTOR SHALL ASSURE ADEQUATE SOIL PERCOLATION FOR ALL TREE PITS PRIOR TO INSTALLATION. FOR PERCOLATION RATES LOWER THAT 1" / HOUR A TREE SUMP WILL BE REQUIRED.



C CABBAGE PALM INSTALLATION
SCALE: N.T.S.

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NOT TO SCALE

CONSTRUCTION PLAN REVISIONS

YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

LANDSCAPE DETAILS

Engineering Business Certificate of Authorization No. 32771
Florida Certificate of Authorization No. LC26006538

REGISTERED LANDSCAPE ARCHITECT
BRIDGER E. DEMARS
LA 6667420
STATE OF FLORIDA

BRIDGER E. DEMARS
REGISTERED LANDSCAPE ARCHITECT
REGISTRATION NUMBER 6667420

PROJECT No.	199-01-01
SHEET	L 5.0

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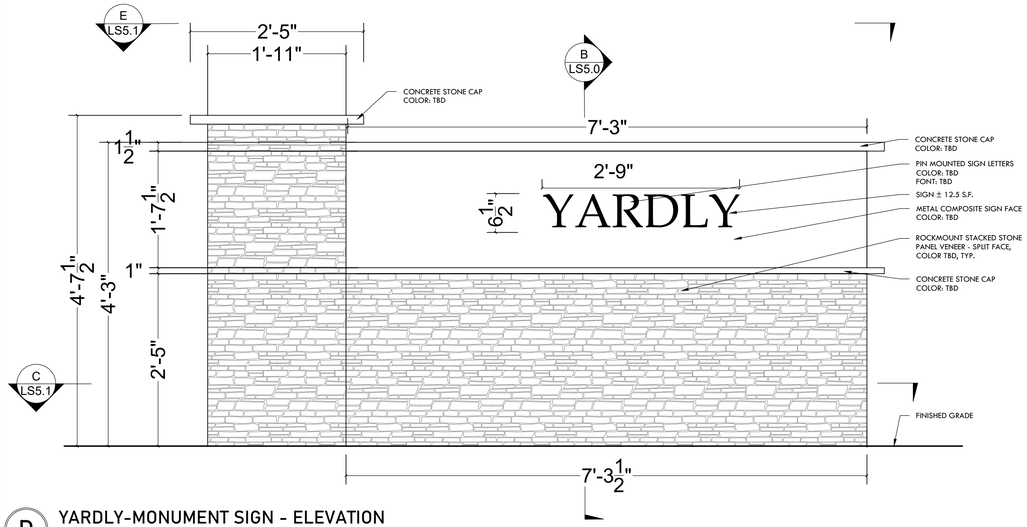
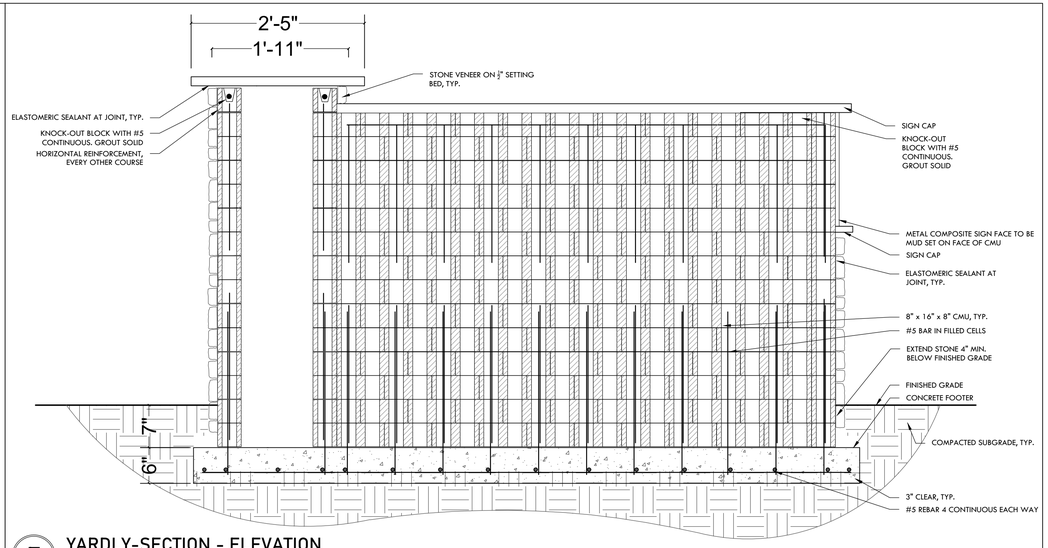


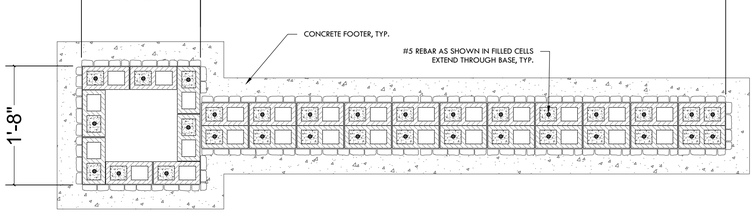
D YARDLY-MONUMENT SIGN - ELEVATION

1/2" = 1'-0" DETAIL-FILE



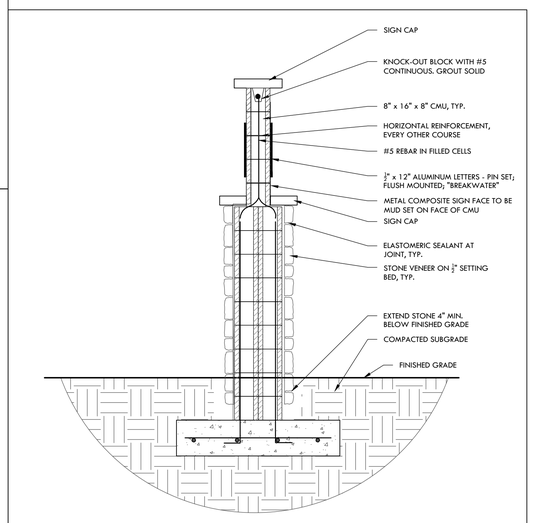
E YARDLY-SECTION - ELEVATION

1/2" = 1'-0" DETAIL-FILE



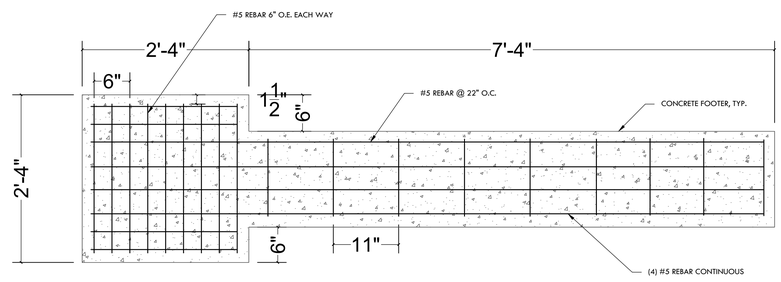
C YARDLY-SECTION - PLAN

1/2" = 1'-0" DETAIL-FILE



B YARDLY-SIGN AND CAP DETAIL

1/2" = 1'-0" DETAIL-FILE



A YARDLY-FOOTER DETAIL - PLAN

1/2" = 1'-0" DETAIL-FILE

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CONSTRUCTION PLAN REVISIONS

YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

LANDSCAPE DETAILS

Engineering Business Certificate of Authorization No. 32771
Florida Certificate of Authorization No. LC26000638

REGISTERED LANDSCAPE ARCHITECT BRIDGER E. DEMARS LA 6667420 STATE OF FLORIDA

BRIDGER E. DEMARS
REGISTERED LANDSCAPE ARCHITECT
REGISTRATION NUMBER 6667420

PROJECT No.	199-01-01
SHEET	L 5.1

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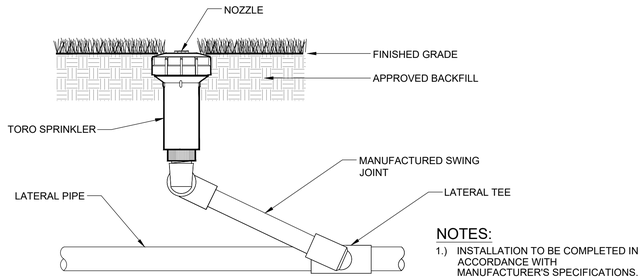
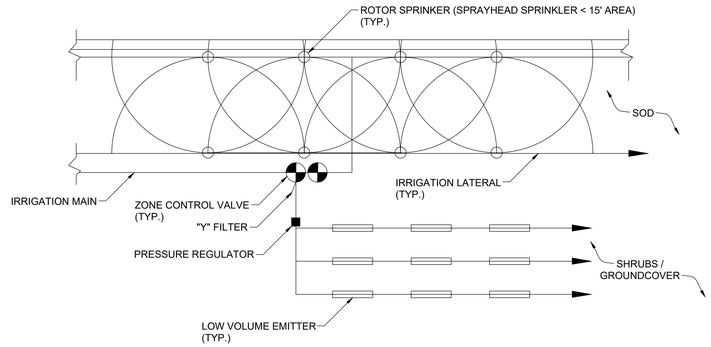


NOTES:

1.) INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

2.) INSTALL SPRINKLER AT FINISHED GRADE.

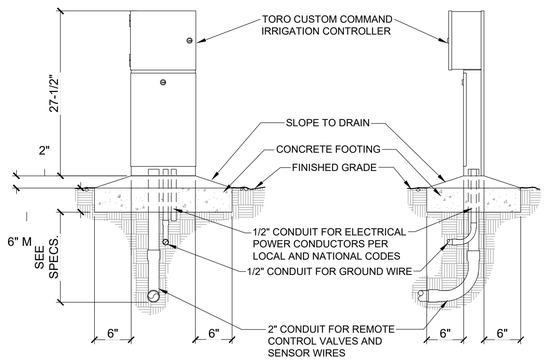
C FIXED-SPRAY SPRINKLER (TOTO 570Z SHOWN)
SCALE: N.T.S.



D TYPICAL IRRIGATION DETAIL
SCALE: N.T.S.

CITY OF EDGEWATER IRRIGATION NOTES:

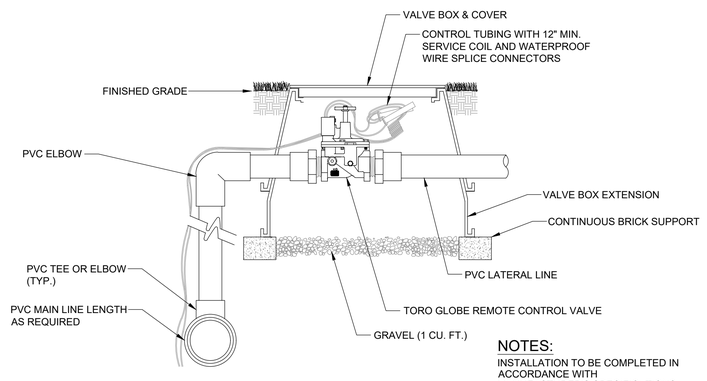
1. All landscape irrigation systems shall be low-volume irrigation systems. A low-volume irrigation system is designed to provide no more than the minimum amount of water required by any specific landscape material to ensure survival of that material. Such a system utilizes a combination of sprinkler mechanisms and zones to accommodate the individual irrigation requirements of each type of landscape material, including trees, shrubs, ornamentals and turf areas.
2. All underground irrigation systems shall be regulated by an automatic timer or controller.
3. The design of the system shall include sprinkler heads and devices appropriate for the landscape material to be irrigated.
4. Low-trajectory heads or low-volume water distributing devices shall be used to irrigate confined areas in order to prevent overspray onto impervious areas.
5. Irrigation systems shall be designed to place high water demand areas, such as lawns, on separate zones from those areas with reduced water requirements.
6. Automatically controlled irrigation systems shall be operated by an irrigation controller that is capable of irrigating high requirement areas and a different schedule from low water requirement areas, provided that separate zones exist as described in sub[section] 5. above.
7. Irrigation systems shall be designed so that impervious areas are not watered.
8. Moisture sensing devices (i.e., rain check valve) shall be installed to regulate the controller's operation during wet weather.
9. Precipitation rates for each zone shall be calculated and noted on the irrigation plans.
10. The watering schedule recommended by the urban forester shall be noted on the irrigation plans.
11. All irrigation systems using a well shall be outfitted with backflow protection.
12. Irrigation systems will be supplied via groundwater wells permitted through the Florida Department of Health.



NOTE:

INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

A PEDESTAL-MOUNT CONTROLLER (TORO CONTROLLER SHOWN)
SCALE: N.T.S.



NOTES:

INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

B VALVE (TORO 220 SERIES SHOWN)
SCALE: N.T.S.

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NOT TO SCALE

CONSTRUCTION PLAN REVISIONS

YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

IRRIGATION DETAILS

Engineering Business Certificate of Authorization No. 32771
Florida Certificate of Authorization No. LC26006638

REGISTERED LANDSCAPE ARCHITECT BRIDGER E. DEMARS LA 6667420 STATE OF FLORIDA

BRIDGER E. DEMARS
REGISTERED LANDSCAPE ARCHITECT
REGISTRATION NUMBER 6667420

PROJECT No. 199-01-01

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PLANT SCHEDULE

SYMBOL	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER TYPE	HEIGHT	SPECIFICATION	NATIVE	REMARKS
TREES									
	71	Lagerstroemia indica	Crape Myrtle	2.5" Cal.	B&B	8` Ht. Min.	Florida No. 1 or better	No	
	32	Magnolia grandiflora `D.D. Blanchard`	D.D. Blanchard Southern Magnolia	2.5" Cal.	B&B	8` Ht. Min.	Florida No. 1 or better	Yes	
	44	Pinus elliotti	Slash Pine	2.5" Cal.	B&B	10` Ht. Min	Florida No. 1 or better	Yes	
	108	Quercus virginiana	Southern Live Oak	2.5" Cal.	B&B	10` Ht.	Florida No. 1 or better	Yes	
	17	Taxodium distichum	Bald Cypress	2.5" Cal.		10` Ht. Min	Florida No.1 or better	Yes	
PALM TREES									
	196	Sabal palmetto	Cabbage Palm	15` Ht.	Field Grown		Florida No. 1 or better	Yes	

SYMBOL	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	HEIGHT	NATIVE	SPACING	REMARKS
SHRUBS									
	287	Hamelia patens' Compacta'	Dwarf Fire Bush	3 gal.	Pot	18" Ht. Min	Yes	36" o.c.	
	305	Serenoa repens 'Cinerea'	Silver Saw Palmetto	5 gal.	Pot	18" Ht. Min	Yes	60" o.c.	
	289	Viburnum obovatum	Walter`s Viburnum	3 gal.	Pot	18" Ht. Min	Yes	36" o.c.	

TREE REMOVAL MITIGATION TABLE	
EXISTING SPECIMEN AND HISTORIC TREES	247
SPECIMEN TREES REMOVED	64
HISTORIC TREES REMOVED	0
REMAINING HISTORIC AND SPECIMEN TREES	183
REPLACEMENT TREES QUALIFYING TO REPLACE SPECIMENS	201
SPECIMEN TREE REPLACEMENT DEFICIT	0
HISTORIC TREE REPLACEMENT DEFICIT	0
SPECIMEN TREE DEFICIT FEE	$75/ea
HISTORIC TREE DEFICIT FEE	$5/in^2
TOTAL TREE REPLACEMENT DEFICIT FEE	$0
SITE ACREAGE	29.035
EXISTING SPECIMEN AND HISTORIC TREES/ ACRE	8.506974
REQUIRED SPECIMEN AND HISTORIC TREES/ ACRE	4
REMAINING, SPECIMEN, AND HISTORIC TREES/ ACRE	5.69
NOTE: ABOVE IS COUNTING ONLY QUALIFYING SPECIES FOR SPECIMEN REPLACEMENT	
NOTE: SPECIMEN AND HISTORIC TREES ARE DEFINED IN EDGEWATER LDC 21-55.06	
NOTE: REPLACMENT TREE DEFICIT TO BE COVERED BY PAYMENT TO CITY OF EDGEWATER	

MISCELLANEOUS

QTY	BOTANICAL NAME	COMMON NAME	SPECIFICATION
TBD	IRRIGATION		100% HEAD TO HEAD IN TURF AREAS, MICRO DRIP EMITTERS FOR ALL PLANTINGS
TBD	PASPALUM NOTATUM	ST AUGUSTINE SOD	TO BE FIELD VERIFIED BY CONTRACTOR. (AREA IS FOR COMMON SPACE ONLY)
TBD	STENOTAPHRUM SECUNDATUM "FLORATAM"	BAHIA SOD	TO BE FIELD VERIFIED BY CONTRACTOR. (AREA IS FOR COMMON SPACE ONLY)
TBD	MULCH	PINE STRAW MULCH	MIN. 3" THICK

PLANTING NOTES (UTILITY AND METER):

1. THERE SHALL BE 3' MINIMUM CLEARANCE FROM LANDSCAPE PLANTS AND THE EDGE OF THE METER SLAB FOR METERS LESS THAN 3" AND 6' FOR METERS LARGER THAN 3", AND FOR FIRE LINE BACKFLOW PREVENTION ASSEMBLIES.
2. THERE SHALL BE 10' MINIMUM CLEARANCE BETWEEN TREES AND METER ASSEMBLIES, METER ASSEMBLY SLABS, AND FIRE LINE BACKFLOW PREVENTION ASSEMBLIES.
3. THERE MUST BE A CLEARANCE OF 7.5' MINIMUM FROM THE FRONT AND BOTH SIDES, AND 4' TO THE REAR OF ALL FIRE HYDRANTS AND ABOVE GRADE OBSTRUCTIONS INCLUDING POSTS, FENCES, TREES, ETC., PER THE FLORIDA FIRE PREVENTION CODE AND "NFPA 18.3.4.1- HYDRANTS."
4. STREET SIDE OF METER ASSEMBLIES AND FIRE LINE BACKFLOW PREVENTION ASSEMBLIES SHALL REMAIN OPEN AND FREE OF LANDSCAPING.
5. TREES SHALL NOT BE PLANTED OR LOCATED WITHIN 10 FEET OF ANY POTABLE WATER MAIN, RECLAIMED WATER MAIN, SANITARY FORCE MAIN, GRAVITY SANITARY SEWER MAIN, SANITARY CLEANOUTS, OR POTABLE/RECLAIMED/FORCE MAIN APPURTENANCES SUCH AS METERS, HYDRANTS, BACKFLOW PREVENTION ASSEMBLIES, ETC. THAT ARE OWNED AND MAINTAINED BY THE CITY OF EDGEWATER, AN APPROVED ROOT BARRIER SHALL BE USED WHERE TREES ARE PLANTED CLOSER THAN 10 FEET.

NOTE:

GROUPED PLANT SYMBOLS SHOWN ARE REPRESENTATIVE OF GENERAL TREE AND SHRUB REQUIREMENTS. ALL SUBSTITUTIONS MADE TO FOLLOW LOCAL CITY CODE.

TREE PLANTING NOTES:

1. ALL TREES SHALL BE GUARANTEED FOR TWO YEARS FROM DATE OF CITY ACCEPTANCE
2. EACH TREE SHALL RECEIVE SIX "AGRIFORM" 21 GRAM TABLETS PER MANUFACTURER'S DIRECTIONS.
3. FLEXIBILITY SHALL BE GIVEN TO THE PLACEMENT OF STREET TREES TO ACCOMMODATE IMPROVEMENTS SUCH AS DRIVEWAYS, UTILITIES, LIGHTING, ETC
4. STREET TREE SHALL HAVE A MINIMUM CLEARANCE OF 15' FROM STREET LIGHTS. SHALL NOT BE INSTALLED WITHIN 10 FT. OF ANY ABOVE GROUND UTILITY OR WITHIN 30 FT. OF THE FACE OF A STOP SIGN
5. STREET TREE PLANTINGS IN "COMMON TRACTS" TO BE INSTALLED PRIOR TO AS-BUILT INSPECTION
6. TREE PLANTING SHALL INCLUDE ROOT BARRIER PROTECTION TO PREVENT ROOT GROWTH INTO UTILITIES, DRAINAGE, SIDEWALKS AND OTHER PAVED AREAS.
7. APPLY A 3" LAYER OF MULCH LAYER TO ALL PROPOSED TREE, SHRUB, GROUND COVER AND VINE PLANTINGS
8. ALL TRIMMING UNDERTAKEN ON A TREE PROTECTED BY THE PROVISIONS OF THE LAND DEVELOPMENT CODE SHALL BE IN ACCORDANCE WITH THE AMERICAN NATIONAL STANDARD INSTITUTE (ANSI) A-300 PRUNING STANDARDS.
9. A TREE TABLE INDICATING THE QUANTITY OF STREET TREES REQUIRED FOR EACH LOT SHALL BE PROVIDED WITH THE HOMEOWNER DOCUMENTS AT THE TIME OF THE FINAL PLAT.

GENERAL NOTES:

1. NO REFERENCE TO ENGINEERING SHOULD BE MADE FROM THIS SHEET. FOR LANDSCAPE REFERENCE ONLY.
2. ANY DEVIATION FROM PLANT QUANTITY, SIZE OR GRADE MAY JEOPARDIZE THE CERTIFICATE OF OCCUPANCY.
3. THE HEALTHY, NEAT, AND ORDERLY APPEARANCE OF ALL REQUIRED LANDSCAPING MATERIALS IS THE CONTINUAL RESPONSIBILITY OF THE PROPERTY OWNER.
4. SLOPES 4:1 OR GREATER SHALL REQUIRE SODDING FOR STABILIZATION.
5. CONTRACTOR SHALL VERIFY ALL FINAL TREE LOCATIONS IN REGARD TO CONFLICTS SUCH AS UTILITIES, DRAINAGE, ETC.
6. ANY AREAS SUBJECT TO EROSION MUST BE ADEQUATELY STABILIZED WITH VEGETATIVE MATERIAL THAT WILL, WITHIN A REASONABLE TIME FRAME, DETER SOIL DISTURBANCE. SODDING, PLUGGING, SPRIGGING OR SEEDING IS ACCEPTABLE FOR STABILIZATION; HOWEVER, SODDING MAY BE REQUIRED IN AREAS OF EROSION-PRONE SOILS OR WHERE SLOPES ARE GREATER THAN 5:1. VEGETATION OTHER THAN GRASS IS ACCEPTABLE UNLESS OTHERWISE SPECIFIED. THE USE OF HAY OR STRAW BALES TO REDUCE SEDIMENT DURING CONSTRUCTION SHALL NOT BE USED. SEE SECTION 353- EROSION AND SEDIMENT CONTROL PLAN.
7. CARE SHALL BE TAKEN WHERE IRRIGATION LINES, HEDGES OR OTHER MATERIALS ARE PROPOSED TO BE INSTALLED WITHIN DRIP LINES OF TREES DESIGNATED TO REMAIN.
8. ALL IRRIGATION SHALL USE THE LOWEST QUALITY WATER AVAILABLE WHICH ADEQUATELY AND SAFELY MEETS THE NEEDS OF THE SYSTEM. STORM WATER REUSE, RECLAIMED WATER USE, GREY WATER IRRIGATION SYSTEMS AND/OR SHALLOW WELLS SHALL BE USED. THE USE OF POTABLE WATER FOR IRRIGATION WILL NOT BE ALLOWED.

TREE REMOVAL NOTES:

1. TREE REMOVAL AND REPLACEMENT INFORMATION IDENTIFIED IN THE SCHEDULE IS BASED ON A GENERAL IDENTIFICATION OF EXISTING TREES IN THE VICINITY OF THE PROPOSED ROADS AND STORMWATER FACILITIES.
2. AT THE TIME OF FSP PERMITTING A REPORT CONDUCTED BY AN ISA CERTIFIED ARBORIST SHALL BE PROVIDED TO IDENTIFY AND ASSESS THE HEALTH AND CONTINUED VIABILITY OF TREES ON SITE. TREES IDENTIFIED TO BE FAILING OR POTENTIALLY HAZARDOUS SHALL NOT BE COUNTED TOWARDS FINAL TREE MITIGATION REQUIREMENTS.
3. A TREE REMOVAL PERMIT SHALL BE REQUIRED FOR TREES OF SIX INCHES (6") DBH (DIAMETER AT BREAST HEIGHT MEASURED 4 ½ FEET FROM BASE OF TREE) OR LARGER ON ALL PROPERTY WITHIN THE CITY LIMITS. TREES SHALL BE DEFINED BY SECTION 21-20.02. TREES TO BE REMOVED IN THIS CATEGORY WILL BE REQUIRED TO BE REPLACED IF THERE ARE AN INSUFFICIENT NUMBER OF TREES LEFT ON THE LOT.
4. REPLACEMENT TREES SHALL BE A MINIMUM OF 2 ½ INCHES IN DIAMETER MEASURED 6 INCHES ABOVE THE SOIL LINE OR 10 FEET IN HEIGHT ABOVE THE SOIL LINE. AN APPLICATION FOR THE PERMIT IS AVAILABLE IN THE DEVELOPMENT SERVICES DEPARTMENT. FIFTY-PERCENT (50%) OF REPLACEMENT TREES SHALL BE SPECIMEN TREES AS IDENTIFIED IN SECTION 21-55-06.
4. EXISTING, HEALTHY SABAL PALMS MAY BE RELOCATED ON THE SUBJECT SITE AND SHALL NOT COUNT TOWARD REPLACEMENT REQUIREMENTS IF SAVED.

GENERAL LANDSCAPE NOTES:

1. ALL PLANT MATERIAL TO BE FLORIDA GRADE # 1 OR BETTER, AS DEFINED IN "GRADES AND STANDARDS FOR NURSERY PLANTS", STATE OF FLORIDA DEPT. OF AGRICULTURE.
2. ALL SIZES SHOWN FOR PLANT MATERIAL ON THE PLAN ARE TO BE CONSIDERED MINIMUM. ALL PLANT MATERIAL MUST MEET OR EXCEED THESE MINIMUM REQUIREMENTS FOR BOTH HEIGHT AND SPREAD. ANY OTHER REQUIREMENTS FOR SPECIFIC SHAPE OR EFFECT AS NOTED ON THE PLAN SHALL ALSO BE REQUIRED FOR ACCEPTANCE. ALL TREES TO BE SINGLE TRUNKED, UNLESS OTHERWISE NOTED ON PLANS.
3. MINIMUM THREE-INCH (3") THICK LAYER OF MULCH SHALL BE PLACED AROUND ALL NEW PLANT MATERIAL AND BARE GROUND THAT WILL NOT BE COVERED BY EXISTING VEGETATION, SOD, GRAVEL, PAVEMENT OR ANY OTHER GROUND COVER TREATMENT.
4. ALL TREES TO BE HEALTHY, FULL SPECIMEN TYPES. ALL PALMS TO BE SUN GROWN.
5. ALL PLANTING BED AREAS TO HAVE 6" OF DARK, FRIABLE TOP SOIL OR BED MIXED CHURNED INTO EXISTING SOIL..
6. NEW PLANT MATERIAL TO BE INSTALLED WILL BE FIELD ADJUSTED TO ACCOMMODATE EXISTING PLANT MATERIAL SUCH AS OVERHEAD CANOPY TREES, UNDERSTORY TREES AND SHRUBS OR GROUND COVER. THIS WILL INSURE EXISTING PLANT MATERIAL TO REMAIN IN ITS NATURAL STATE. THEREFORE, NO EXISTING PLANT MATERIAL WILL BE ALTERED BY REMOVING, CUTTING TRIMMING OR DESTROYING IN ORDER TO INSTALL NEW PLANT MATERIAL.
7. ALL TREE STAKING TO BE DONE USING ARBOR TAPE AND THE DUCKBILL ANCHOR SYSTEM.
8. ALL LANDSCAPED AREAS TO BE IRRIGATED WITH A FULLY AUTOMATED IRRIGATION SYSTEM.
9. ALL TREES SHALL BE LOCATED AT LEAST SIX FEET AWAY FROM THE FLOWLINE OF PERIMETER PROPERTY SWALES AND PROPOSED STORMWATER INLETS.

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SCALE IN FEET

CONSTRUCTION PLAN REVISIONS

YARDLY
EDGEWATER RIVER OAKS

CLIENT: TM BTR OF FLORIDA, LLC

GENERAL LANDSCAPE NOTES

Engineering Business Certificate of Authorization No. 32771
Florida Certificate of Authorization No. LC26000638

REGISTERED LANDSCAPE ARCHITECT
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