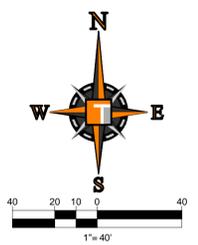


LEGEND

- — — — — PROPERTY LINE
- — — — — EXISTING SANITARY SEWER LINE
- — — — — EXISTING STORM SEWER LINE
- — — — — EXISTING WATER MAIN
- — — — — EXISTING OVERHEAD UTILITY LINE
- — — — — EXISTING UNDERGROUND TELEPHONE LINE
- — — — — EXISTING STORM SEWER CATCH BASIN / MANHOLE
- — — — — EXISTING TREES TO REMAIN
- — — — — EXISTING SPOT GRADE
- — — — — EXISTING CONTOUR



HATCH LEGEND



DEMOLITION NOTES:

1. THOMAS ENGINEERING GROUP, LLC IS NOT RESPONSIBLE FOR JOB SITE SAFETY OR SUPERVISION. CONTRACTOR IS TO PROCEED WITH THE DEMOLITION IN A SYSTEMATIC AND SAFE MANNER, FOLLOWING ALL THE OSHA REQUIREMENTS, TO ENSURE PUBLIC AND CONTRACTOR SAFETY.
2. ALL DEMOLITION ACTIVITIES ARE TO BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AS WELL AS ALL FEDERAL, STATE AND LOCAL REGULATIONS. ANY DISCREPANCIES OR DEVIATIONS SHALL BE IDENTIFIED BY THE CONTRACTOR TO THOMAS ENGINEERING GROUP IN WRITING FOR RESOLUTION PRIOR TO INITIATION OF SITE ACTIVITY.
3. PRIOR TO STARTING ANY DEMOLITION CONTRACTOR IS RESPONSIBLE FOR:
 - A. THE CONTRACTOR SHALL OBTAIN A SUNSHINE STATE ONE CALL LOCATION CERTIFICATION PRIOR TO ANY EXCAVATION OR DEMOLITION. THE NUMBER IS 1-800-432-4770.
 - B. ENSURING COPIES OF ALL PERMITS AND APPROVALS MUST BE MAINTAINED ON SITE AND AVAILABLE FOR REVIEW.
 - C. INSTALLING THE REQUIRED SOIL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO SITE DISTURBANCE.
 - D. LOCATE/CAP ALL UTILITIES AND SERVICES, INCLUDING BUT NOT LIMITED TO GAS, WATER, ELECTRIC, SANITARY AND STORM SEWER, TELEPHONE, CABLE, FIBER OPTIC CABLE, ETC. WITHIN THE LIMITS OF DISTURBANCE.
 - E. PROTECTING AND MAINTAINING IN OPERATION, ALL ACTIVE SYSTEMS THAT ARE NOT BEING REMOVED DURING ALL DEMOLITION ACTIVITIES.
 - F. FAMILIARIZING THEMSELVES WITH THE APPLICABLE UTILITY SERVICE PROVIDER AND BEING RESPONSIBLE FOR ALL COORDINATION REGARDING UTILITY DEMOLITION REQUIRED FOR THE PROJECT. THE CONTRACTOR SHALL PROVIDE THE OWNER WRITTEN NOTIFICATION THAT THE EXISTING UTILITIES AND SERVICES HAVE BEEN TERMINATED AND ABANDONED IN ACCORDANCE WITH JURISDICTION AND UTILITY COMPANY REQUIREMENTS.
 - G. COORDINATION WITH UTILITY COMPANIES REGARDING WORKING "OFF-PEAK" HOURS OR ON WEEKENDS AS MAY BE REQUIRED TO MINIMIZE THE IMPACT ON THE AFFECTED PARTIES.
 - H. A COMPLETE INSPECTION OF CONTAMINANTS BY A LICENSED ENVIRONMENTAL TESTING AGENCY, OF ALL BUILDINGS AND/OR STRUCTURES TO BE REMOVED. SAME SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL ENVIRONMENTAL REGULATIONS. ANY/ALL CONTAMINANTS SHALL BE REMOVED AND DISPOSED OF BY A FEDERALLY LICENSED CONTRACTOR IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS. ALL ENVIRONMENTAL WORK, INCLUDING HAZARDOUS MATERIAL, SOILS, ASBESTOS, OR OTHER REFERENCED OR IMPLIED HEREIN IS THE SOLE RESPONSIBILITY OF THE OWNER'S ENVIRONMENTAL CONSULTANT.
4. THE CONTRACTOR SHALL PROVIDE ALL THE "MEANS AND METHODS" NECESSARY TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF EXISTING STRUCTURES, AND ANY OTHER IMPROVEMENTS THAT ARE REMAINING ON OR OFF SITE. THE DEMOLITION CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS OF DAMAGE TO ALL ITEMS THAT ARE TO REMAIN AS A RESULT OF HIS ACTIVITIES. ALL REPAIRS SHALL USE NEW MATERIAL. THE REPAIRS SHALL RESTORE THE ITEM TO THE PRE-DEMOLITION CONDITION.
5. IN THE ABSENCE OF SPECIFICATIONS, THE CONTRACTOR SHALL PERFORM EARTH MOVEMENT ACTIVITIES, DEMOLITION AND REMOVAL OF ALL FOUNDATION WALLS, FOOTINGS, AND OTHER MATERIALS WITHIN THE LIMITS OF DISTURBANCE IN ACCORDANCE WITH DIRECTION BY OWNER'S STRUCTURAL OR GEOTECHNICAL ENGINEER.
6. EXPLOSIVES SHALL NOT BE USED WITHOUT PRIOR WRITTEN CONSENT OF BOTH THE OWNER AND APPLICABLE GOVERNMENTAL AUTHORITIES. ALL THE REQUIRED PERMITS AND EXPLOSIVE CONTROL MEASURES THAT ARE REQUIRED BY THE FEDERAL, STATE, AND LOCAL GOVERNMENTS SHALL BE IN PLACE PRIOR TO STARTING AN EXPLOSIVE PROGRAM. THE CONTRACTOR IS ALSO RESPONSIBLE FOR ALL INSPECTION AND SEISMIC VIBRATION TESTING THAT IS REQUIRED TO MONITOR THE EFFECTS ON ALL LOCAL STRUCTURES.
7. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AND GENERALLY ACCEPTED SAFE PRACTICES IN CONFORMANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL," AS WELL AS FEDERAL, STATE, AND LOCAL REGULATIONS WHEN DEMOLITION RELATED ACTIVITIES IMPACT ROADWAYS OR ROADWAY RIGHTS-OF-WAY.
8. CONDUCT DEMOLITION ACTIVITIES IN SUCH A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, SIDEWALKS, WALKWAYS, AND OTHER ADJACENT FACILITIES. STREET CLOSURE PERMITS MUST BE RECEIVED FROM THE APPROPRIATE GOVERNMENTAL AUTHORITY.
9. DEMOLITION ACTIVITIES AND EQUIPMENT SHALL NOT USE AREAS OUTSIDE THE DEFINED PROPERTY LINE WITHOUT WRITTEN PERMISSION OF THE OWNER, AND/OR APPROPRIATE GOVERNMENT AGENCY.
10. USE DUST CONTROL MEASURES TO LIMIT AIRBORNE DUST AND DIRT RISING AND SCATTERING IN THE AIR IN ACCORDANCE WITH FEDERAL, STATE, AND/OR LOCAL STANDARDS. AFTER THE DEMOLITION IS COMPLETE, ADJACENT STRUCTURES AND IMPROVEMENTS SHALL BE CLEANED OF ALL DUST AND DEBRIS CAUSED BY THE DEMOLITION OPERATIONS. THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL ADJACENT AREAS TO THEIR "PRE-DEMOLITION" CONDITION.
11. CONTRACTOR IS RESPONSIBLE TO SAFEGUARD SITE AS NECESSARY TO PERFORM THE DEMOLITION IN SUCH A MANNER AS TO PREVENT THE ENTRY OF UNAUTHORIZED PERSONS AT ANY TIME.
12. THIS DEMOLITION PLAN IS INTENDED TO IDENTIFY THOSE EXISTING ITEMS/CONDITIONS WHICH ARE TO BE REMOVED. IT IS NOT INTENDED TO PROVIDE DIRECTION OTHER THAN THAT ALL METHODS AND MEANS ARE TO BE IN ACCORDANCE WITH STATE, FEDERAL, LOCAL, AND JURISDICTIONAL REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OSHA AND OTHER SAFETY PRECAUTIONS NECESSARY TO PROVIDE A SAFE WORK SITE.
13. DEBRIS SHALL NOT BE BURIED ON THE SUBJECT SITE. ALL DEMOLITION WASTES AND DEBRIS (SOLID WASTE) SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL TOWN, COUNTY, STATE, AND FEDERAL LAWS AND APPLICABLE CODES.
14. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING SITE IMPROVEMENTS AND UTILITIES. ALL DISCREPANCIES SHALL BE IDENTIFIED TO THE ENGINEER IN WRITING.
15. ALL EXISTING UTILITIES BEING REMOVED SHALL BE DONE SO BY THE CONTRACTOR IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS.

GENERAL UTILITY NOTES:

1. THE CONTRACTOR / ENGINEER OF RECORD MUST CONTACT THE PASCO COUNTY UTILITIES TO SET UP THE PRE CONSTRUCTION MEETING.
2. CONTRACTOR TO EXPOSE WATER MAIN AND FURNISH TAPPING VALVE AND SLEEVE FOR WATER METER TAP AND INSTALL 3" POLYETHYLENE (P.E.) WATER SERVICE LINE FROM MAIN TO METER.
3. CONTRACTOR TO COORDINATE WITH PASCO COUNTY UTILITIES DEPT. PRIOR TO THE SELECTION AND ORDERING OF THE WATER METER AND/OR BACKFLOW PREVENTION DEVICE ASSEMBLIES.
4. ALL NON-METALLIC PIPE WILL BE INSTALLED WITH 2 PAIR, 10 GAUGE, COPPER TRACER WIRE.
5. ALL CONSTRUCTION WILL COMPLY WITH THE 2010 FPPC (NFPA 1 & 101, 2009).

DATUM NOTE:

ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE MONUMENT DESIGNATED "W27 106" AND "X 758" PER THE NATIONAL GEODETIC SURVEY WEBSITE (HTTP://WWW.NGS.GOV), NORTH AMERICAN VERTICAL DATUM OF 1988.
ON SITE ELEVATIONS ARE AS FOLLOWS:
BENCHMARK NO. 1, ELEVATION = 106.32 FEET
BENCHMARK NO. 2, ELEVATION = 102.25 FEET

FEMA MAP INFORMATION:

THE PROPERTY SHOWN HEREON APPEARS TO FALL WITHIN FLOOD ZONE FLOOD ZONE "X", AS SHOWN ON THE FLOOD INSURANCE RATE MAP, 1201C 0427 F, MAP REVISED 09/26/2014, NATIONAL FLOOD INSURANCE PROGRAM, FEDERAL EMERGENCY MANAGEMENT AGENCY.

UTILITY CONTACTS:

- | | |
|--|---|
| <p>COMMUNICATIONS
BRIGHT HOUSE NETWORKS - EAST PASCO
30432 S.R. 54
WESLEY CHAPEL, FL 33543
813-862-0522</p> <p>PHONE
VERIZON FLORIDA INC
1909 US HWY 301 N
TAMPA, FL 33619
813-627-8343</p> <p>SEWER & WATER
PASCO COUNTY UTILITIES
7530 LITTLE ROAD, ROOM 205
NEW PORT RICHEY, FL 34654
727-847-8145</p> | <p>GAS
TECO PEOPLE'S GAS - TAMPA
1400 CHANNELSIDE DRIVE
TAMPA, FL 33605
813-275-3743</p> <p>ELECTRIC
WITLACOCOCHEE RIVER
ELECTRIC COOPERATIVE
P.O. BOX 278
DADE CITY, FL 33526
352-588-5115</p> <p>FIRE RESCUE
4111 LAND O' LAKES BLVD.
SUITE 208
LAND O' LAKES, FL 34639
813-929-2750</p> |
|--|---|

THOMAS ENGINEERING GROUP
CIVIL ENGINEERS - PROJECT MANAGERS - LAND PLANNING - LANDSCAPE ARCHITECTS
OFFICES:
4950 W. KENNEDY BLVD.
TAMPA, FLORIDA 33609
1900 CORPORATE DR.
FLUOROPOLIS, FLORIDA 33534

REVISIONS

REV	DATE	COMMENT	BY

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PROJECT No.:	FT160018
DRAWN BY:	HR
CHECKED BY:	EMM
DATE:	07/21/2016
SCALE:	AS NOTED
CAD I.D.:	FT160018-C-3-DEM0

PROJECT:
STORAGE FACILITIES SR 54 & WILDPINE BLVD.

FOR

JOHNSON DEVELOPMENT ASSOCIATES, INC.

CURLY ROAD
WESLEY CHAPEL
PASCO COUNTY

THOMAS ENGINEERING GROUP

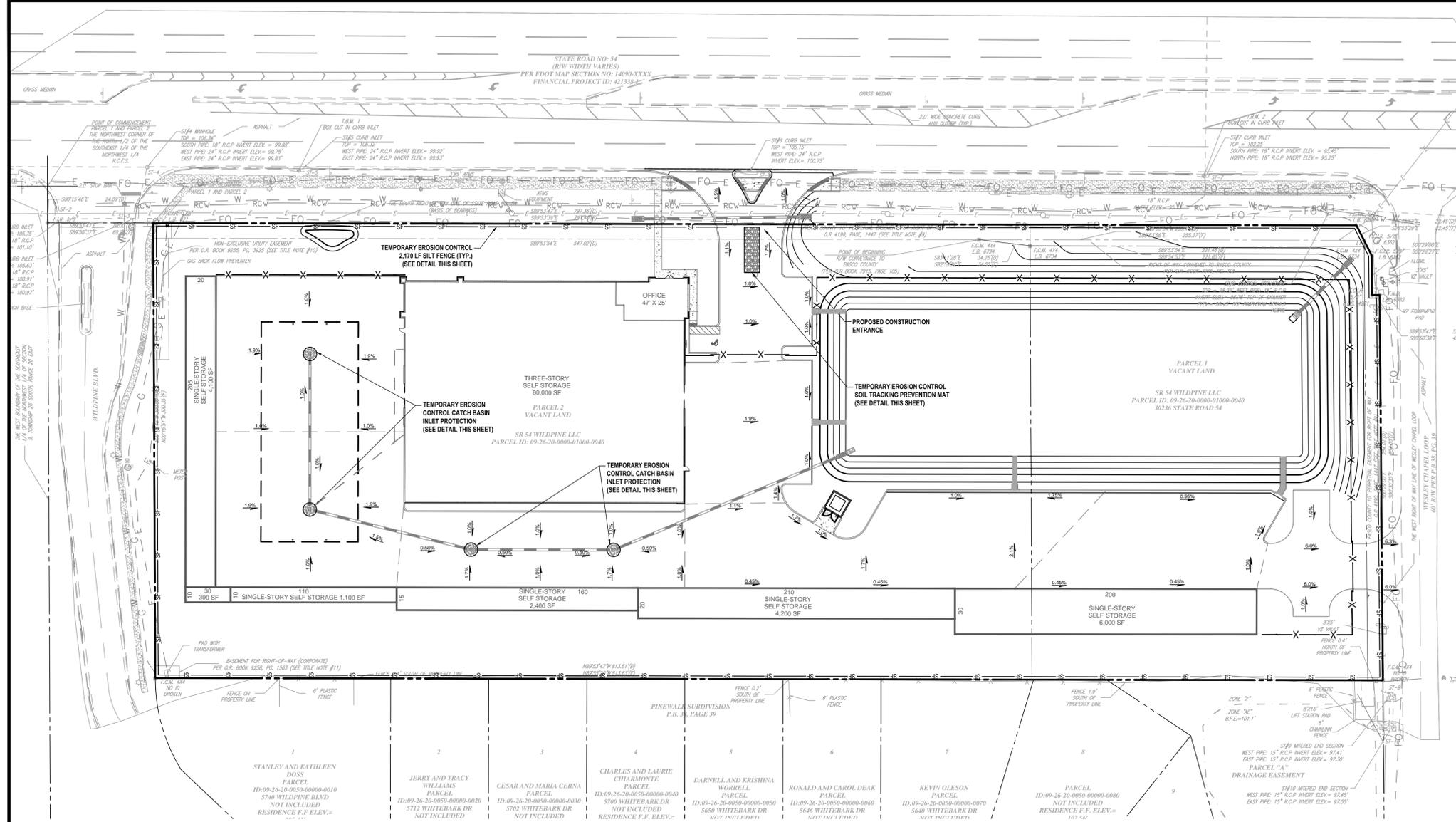
4950 W. KENNEDY BLVD, SUITE 600
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www.ThomasEngineeringGroup.com

CRAIG T. BOISSEAU
LICENSE
No. 67551
STATE OF FLORIDA
PROFESSIONAL ENGINEER

CRAIG T. BOISSEAU, P.E.
August 31, 2016
FLORIDA LICENSE No. 67551
FLORIDA BUSINESS CERT. OF AUTH. No. 27528

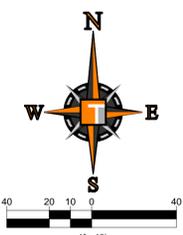
SHEET TITLE:
DEMOLITION PLAN

SHEET NUMBER:
C-3
OF



LEGEND:

- PROPERTY LINE
- EXISTING CATCH BASIN
- EXISTING STORM SEWER
- PROPOSED SILT FENCE (LIMITS OF SOIL DISTURBANCE)
- PROPOSED CHAIN LINK CONSTRUCTION FENCE
- PROPOSED INLET / STRUCTURE PROTECTION
- PROPOSED STORM SEWER
- PROPOSED STORM DRAIN
- SOIL TRACKING PREVENTION MAT (SEE DETAIL ON THIS SHEET)
- PROPOSED DRAINAGE FLOW ARROW
- PROPOSED RIDGE LINE
- PROPOSED TREE PROTECTION FENCE



EROSION AND SEDIMENT CONTROL NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SILT FROM SITE IF NOT REMOVABLE ON-SITE AND ASSURING PLAN ALIGNMENT AND GRADE IN ALL DITCHES AND SWALES AT COMPLETION OF CONSTRUCTION.
2. THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.
3. ADDITIONAL PROTECTION - ON-SITE PROTECTION IN ADDITION TO THE ABOVE MUST BE PROVIDED THAT WILL NOT PERMIT SILT TO LEAVE THE PROJECT CONFINES DUE TO UNSEEN CONDITIONS OR ACCIDENTS.
4. CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC. ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.
5. WIRE MESH SHALL BE LAID OVER THE DROP INLET SO THAT THE WIRE EXTENDS A MINIMUM OF 1 FOOT BEYOND EACH SIDE OF THE INLET STRUCTURE. HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2" X 1/2" OPENINGS SHALL BE USED. IF MORE THAN ONE STRIP OF MESH IS NECESSARY, THE STRIPS SHALL BE OVERLAPPED.
6. FOOT NO. 1 COARSE AGGREGATE SHALL BE PLACED OVER THE WIRE MESH AS INDICATED IN D-903. THE DEPTH OF STONE SHALL BE AT LEAST 12 INCHES OVER THE ENTIRE INLET OPENING. THE STONE SHALL EXTEND BEYOND THE INLET OPENING AT LEAST 18 INCHES ON ALL SIDES.
7. IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE STONES MUST BE PULLED AWAY FROM THE INLET, CLEANED AND REPLACED.
8. BALES SHALL BE EITHER WIRE BOUND OR STRING-TIED WITH THE BINDINGS ORIENTED AROUND THE SIDES RATHER THAN OVER AND UNDER THE BALES.
9. BALES SHALL BE PLACED LENGTHWISE IN A SINGLE ROW SURROUNDING THE INLET, WITH THE ENDS OF ADJACENT BALES PRESSED TOGETHER.
10. THE FILTER BARRIER SHALL BE ENTRENCHED AND BACKFILLED. A TRENCH SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 8 INCHES. AFTER THE BALES ARE STAKED, THE EXCAVATED SOIL SHALL BE BACKFILLED AND COMPACTED AGAINST THE FILTER BARRIER.
11. EACH BALE SHALL BE SECURELY ANCHORED AND HELD IN PLACE BY AT LEAST TWO STAKES OR REBARS DRIVEN THROUGH THE BALE.
12. LOOSE STRAW SHOULD BE WEDGED BETWEEN BALES TO PREVENT WATER FROM ENTERING BETWEEN BALES.
13. STRAW BALE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
14. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BALES, END RUNS AND UNDERCUTTING BENEATH BALES.
15. NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BALES SHALL BE ACCOMPLISHED PROMPTLY.
16. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE STRAW BALE BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEED.
17. SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
18. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
19. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-THIRD THE HEIGHT OF THE BARRIER.
20. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEED.
21. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
22. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/3 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
23. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL PRACTICES AS OUTLINED IN THE PLANS, SPECIFICATIONS AND ST. JOHNS RIVER WATER MANAGEMENT DISTRICT SPECIFICATIONS AND CRITERIA.
24. FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL, REFER TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION (F.D.E.R.) CHAPTER 6, "EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION. SEE DETAIL SHEET FOR TYPICAL CONSTRUCTION."
25. ALL DISTURBED AREAS SHALL BE GRASSED, FERTILIZED, MULCHED AND MAINTAINED UNTIL A PERMANENT VEGETATIVE COVER IS ESTABLISHED.
26. SOD SHALL BE PLACED IN AREAS WHICH MAY REQUIRE IMMEDIATE EROSION PROTECTION TO ENSURE WATER QUALITY STANDARDS ARE MAINTAINED.
27. ANY DISCHARGE FROM DEWATERING ACTIVITY SHALL BE FILTERED AND CONVEYED TO THE OUTFALL IN A MANNER WHICH PREVENTS EROSION AND TRANSPORTATION OF SUSPENDED SOLIDS TO THE RECEIVING OUTFALL.
28. DEWATERING PUMPS SHALL NOT EXCEED THE CAPACITY OF THAT WHICH REQUIRES A CONSUMPTIVE USE PERMIT FROM THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT.
29. ALL DISTURBED AREAS TO BE STABILIZED THROUGH COMPACTION, SILT SCREENS, HAY BALES, AND GRASSING. ALL FILL SLOPES 3:1 OR STEEPER TO RECEIVE STAKED SOD.
30. ALL DEWATERING, EROSION, AND SEDIMENT CONTROL TO REMAIN IN PLACE AFTER COMPLETION OF CONSTRUCTION AND REMOVED ONLY WHEN AREAS HAVE BEEN STABILIZED.
31. THIS PLAN INDICATES THE MINIMUM EROSION AND SEDIMENT MEASURES REQUIRED FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL APPLICABLE RULES, REGULATIONS AND WATER QUALITY GUIDELINES AND MAY NEED TO INSTALL ADDITIONAL CONTROLS.
32. THE CONTRACTOR SHALL BE REQUIRED TO RESPOND TO ALL WATER MANAGEMENT DISTRICT INQUIRIES, RELATIVE TO COMPLIANCE OF SJRWMD FOR EROSION AND SEDIMENTATION CONTROL. THE COST OF THIS COMPLIANCE SHALL BE PART OF THE CONTRACT.

NOTES:

1. PRIOR TO THE START OF THE CLEARING OR GRABBING, OR ANY SOIL DISTURBANCE CONTACT PASCO CO. STORMWATER MANAGEMENT AT (727) 634-3611 FOR A SOIL EROSION AND SEDIMENT CONTROL PRE-CONSTRUCTION MEETING.
2. SILT FENCE TO BE CONSTRUCTED WHEREVER OFFSITE AREAS ARE LOWER THAN ADJACENT ONSITE ELEVATIONS.
3. CATCH BASIN FABRIC TO BE PLACED ON AREA INLETS SUBJECT TO SEDIMENTATION FROM THIS PROJECT.
4. ALL EROSION CONTROL DEVICES SUCH AS RUBBLE STRIPS, TURBIDITY BARRIERS, SILT FENCE AND OTHER BMPs SHALL BE INSTALLED PRIOR TO DEMOLITION AND CONSTRUCTION AND ARE TO REMAIN IN PLACE DURING CONSTRUCTION OPERATIONS.
5. CONTRACTOR TO INSTALL TURBIDITY BARRIER AT (2) LAKE OUTFALL LOCATIONS. TURBIDITY BARRIER TO BE INSTALLED PRIOR TO DEMOLITION AND CONSTRUCTION AND ARE TO REMAIN IN PLACE DURING CONSTRUCTION OPERATIONS.

SEQUENCE OF CONSTRUCTION

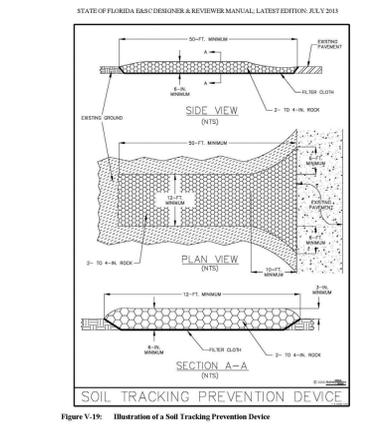
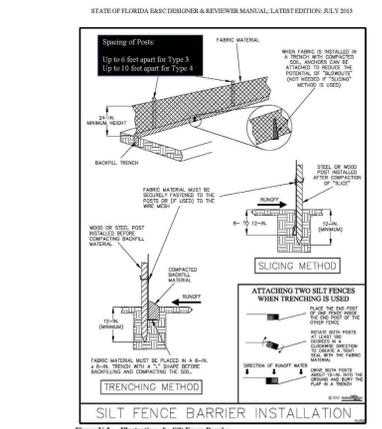
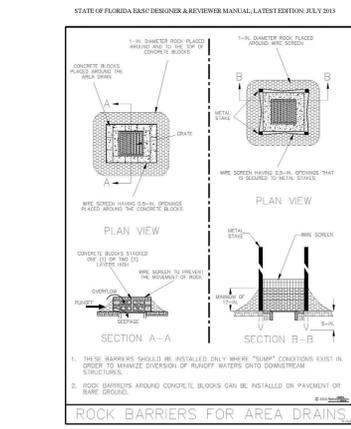
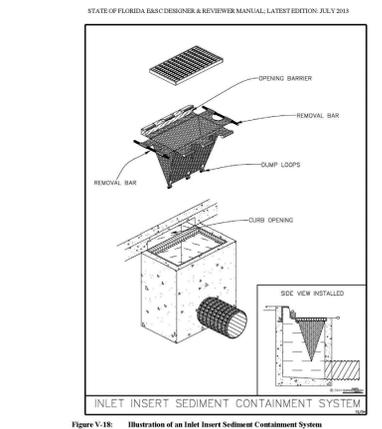
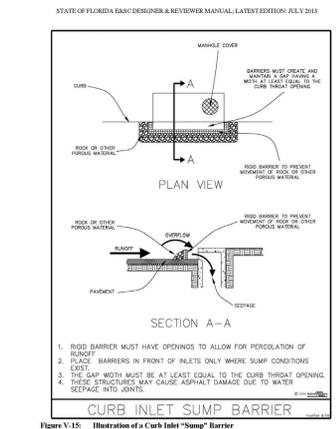
UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER PARKING, LAYDOWN, PORTABLE RESTROOMS, WHEELED WASTE DISPOSAL DUMPSTER(S), WHEEL WASH, CONCRETE WASHOUT, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC. IMMEDIATELY DENOTE THEM ON THE SITE MAPS AND NOTE ANY CHANGES IN THEIR LOCATIONS ON THE SITE MAP.

- PHASE 1**
1. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE AND INSTALL SILT FENCE
 2. INSTALL INLET PROTECTION AT EXISTING INLETS
 3. PREPARE CLEARING AND GRUBBING OF THE SITE, IF APPLICABLE
 4. INSTALL STORMWATER CONVEYANCE STRUCTURES AND CULVERTS, ENSURE THAT NEW INLETS ARE PROTECTED PRIOR TO MAKING THE OUTFALL CONNECTION
- PHASE 2**
1. PERFORM MASS GRADING, ROUGH GRADE TO ESTABLISH PROPOSED DRAINAGE PATTERNS
 2. START CONSTRUCTION OF THE PROPOSED BUILDING PAD AND STRUCTURES
 3. TEMPORARILY SEED WITH PURE LIVE SEED THROUGHOUT THE CONSTRUCTION DISTURBED AREAS THAT WILL BE INACTIVE FOR 7 DAYS OR MORE AS REQUIRED BY THE GENERIC PERMIT.

HALT ALL ACTIVITIES AND CONTACT THE CONSULTANT TO PERFORM INSPECTION AND CERTIFICATION OF BMPs. GENERAL CONTRACTOR SHALL SCHEDULE AND CONDUCT STORMWATER PRE-CONSTRUCTION MEETING WITH CONSULTANT AND ALL GROUND DISTURBING CONTRACTORS BEFORE PROCEEDING WITH CONSTRUCTION.

CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL DEWATERING PERMITS NECESSARY FOR CONSTRUCTION.

THE CONTRACTOR SHOULD ANTICIPATE TO ENCOUNTER GROUNDWATER DURING EXCAVATION ACTIVITIES AND ADDRESS THE ANTICIPATED DEWATERING IN THEIR BID.



POLLUTION PREVENTION NOTES:

1. EROSION AND SEDIMENT CONTROL BMPs IN ADDITION TO THOSE PRESENTED ON THESE PLANS SHALL BE IMPLEMENTED AS NECESSARY TO PREVENT TURBID DISCHARGES FROM FLOWING ONTO ADJACENT PROPERTIES OR ROADWAYS, OFF SITE STORMWATER CONVEYANCES OR 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.
2. OFF SITE SURFACE WATER DISCHARGES WITH TURBIDITY IN EXCESS OF 29 NEPHLOMETRIC TURBIDITY UNITS (NTU/S) ABOVE BACKGROUND LEVEL SHALL BE IMMEDIATELY CORRECTED. SUCH INCIDENTS SHALL BE REPORTED TO WATER RESOURCES WITHIN 24 HOURS OF THE OCCURRENCE. THE REPORT SHALL INCLUDE THE CAUSE OF THE DISCHARGE AND CORRECTIVE ACTIONS TAKEN.
3. 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), F.A.C. BY TAKING APPROPRIATE MEASURES TO STABILIZE AFFECTED AREAS.
4. 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 WATER RESOURCES. SMALLER GROUND SURFACE SPILLS SHALL BE CLEANED UP AS SOON AS PRACTICAL.
5. IF CONTAMINATED SOIL AND/OR GROUNDWATER IS DISCOVERED DURING DEVELOPMENT OF THE SITE, ALL ACTIVITY IN THE VICINITY OF THE CONTAMINATION SHALL IMMEDIATELY CEASE, AND WATER RESOURCES SHALL BE CONTACTED.
6. PRIOR TO DEMOLITION OF EXISTING ON SITE STRUCTURES AN ASBESTOS SURVEY AND/OR ASBESTOS NOTIFICATION MAY BE REQUIRED.

MAINTENANCE NOTES:

1. THROUGHOUT THE CONSTRUCTION PERIOD, ALL MUD/SILT TRACKED ONTO EXISTING FOOT ROADS FROM THE SITE DUE TO CONSTRUCTION SHALL BE IMMEDIATELY REMOVED BY THE CONTRACTOR.
2. CATCH BASIN INLET AND CONCRETE STRUCTURE FILTERS SHALL BE MAINTAINED CLEAN AT ALL TIMES THROUGHOUT THE CONSTRUCTION PERIOD. WEEKLY INSPECTIONS WILL BE PERFORMED EVERY 7 CALENDAR DAYS. IF A FILTER HAS HOLES OR IS INUNDATED WITH SEDIMENT, THE FILTER WILL REQUIRE REPLACEMENT.
3. CONSTRUCTION ACCESS AND TRACKING MAT MUST BE MAINTAINED AS NECESSARY. REPLENISH CRUSHED AGGREGATE IF PRESENT LAYER IS FILLED WITH SEDIMENT, POOLING WATER OR HAS RUTS. A NEW LAYER MAY BE ADDED IF OLD LAYERS BECOME COMPACTED.
4. SILT FENCE IS TO BE INSPECTED DAILY BY CONTRACTOR AND EVERY 7 CALENDAR DAYS BY NPDES QUALIFIED INSPECTOR. IF REPAIRS OR REPLACEMENT IS NECESSARY, IT SHALL BE PERFORMED IMMEDIATELY. THE SILT FENCE SHOULD BE TRENCHED IN BACKFILLED, AND STAPLED OR STAKED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS. MAINTENANCE INCLUDES THE REMOVING OF BUILT-UP SEDIMENT, WHEN THE SEDIMENT ACCUMULATES TO 1/3 OF THE HEIGHT OF THE FENCE, CONTRACTOR MAY HAVE TO REMOVE, REPLACE, RETRENCH, OR RE-BACKFILL THE FENCE IF IT FAILS. IT WOULD ALSO BE NECESSARY TO REINSTALL IF ANY PORTION OF THE FENCINGS WAS DAMAGED BY CONSTRUCTION MACHINERY.
5. SEEDING OR RESEEDING MAY BE REQUIRED IMMEDIATELY TO AREAS WHICH HAVE BEEN DAMAGED BY RUNOFF.
6. THE CONTRACTOR SHALL CONTINUOUSLY ENSURE THAT THE PERIMETER OF THE SITE, INCLUDING CONSTRUCTION ENTRANCES, IS SECURED FROM ALLOWING DEBRIS TO LEAVE THE SITE DUE TO CONSTRUCTION ACTIVITY OR RAINFALL EVENTS. BY BIDDING DOCUMENTS CONTRACTOR ACKNOWLEDGES HE/SHE IS AWARE OF NPDES GUIDELINES AND POLICIES AS WELL AS BEST MANAGEMENT PRACTICES AND ASSUMES SOLE RESPONSIBILITY FOR FINES IMPOSED BY GOVERNMENTAL AGENCIES DUE TO VIOLATIONS.

THOMAS ENGINEERING GROUP

CIVIL ENGINEERS - PROJECT MANAGERS - LAND PLANNING - LANDSCAPE ARCHITECTS

OFFICES:

- 4950 W. KENNEDY BLVD. TAMPA, FLORIDA 33609
- 1000 CORPORATE DR. FT. LAUDERDALE, FLORIDA 33304

REVISIONS

REV	DATE	COMMENT	BY

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PROJECT No.: FT160018

DRAWN BY: HR

CHECKED BY: EMM

DATE: 07/21/2016

SCALE: AS NOTED

CAD I.D.: FT160018-C-4-EROSION

STORAGE FACILITIES SR 54 & WILDPINE BLVD.

FOR

JOHNSON DEVELOPMENT ASSOCIATES, INC.

CURLEY ROAD WESLEY CHAPEL PASCO COUNTY

THOMAS ENGINEERING GROUP

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CRAIG T. BOISSEAU

No. 67561

STATE OF FLORIDA

PROFESSIONAL ENGINEER

CRAIG T. BOISSEAU, P.E.

August 31, 2016

FLORIDA LICENSE No. 67551

FLORIDA BUSINESS CERT. OF AUTH. No. 27528

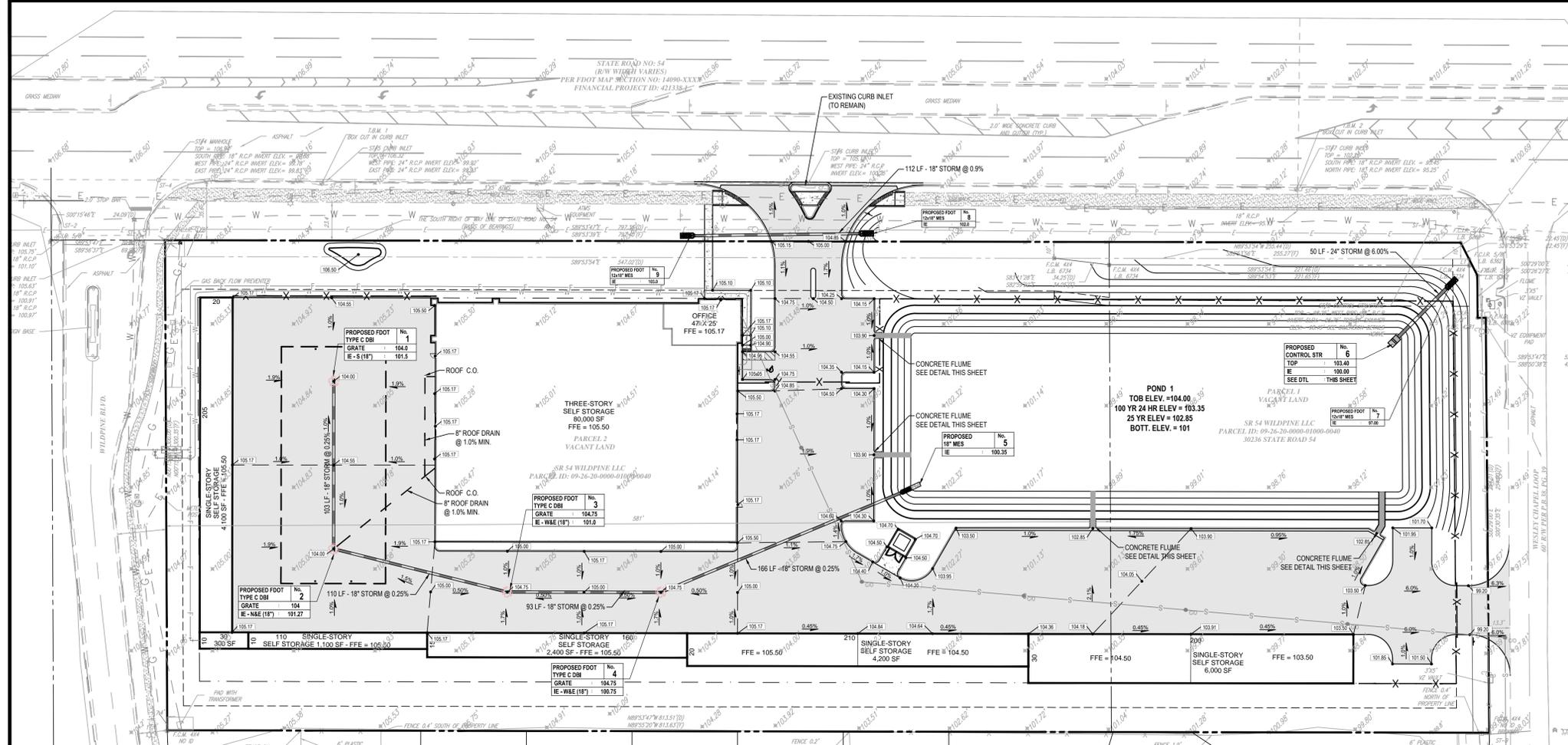
SHEET TITLE:

EROSION CONTROL PLAN

SHEET NUMBER:

C-4

OF



LEGEND

- PROPERTY LINE
- EXISTING STORM SEWER
- EXISTING CATCH BASIN
- EXISTING SPOT ELEVATION
- PROPOSED STORM SEWER
- PROPOSED ROOF DRAIN
- PROPOSED RIDGE LINE
- PROPOSED SPOT GRADE
- PROPOSED STORM FLOW
- PROPOSED CATCH BASIN
- PROPOSED LIGHT DUTY ASPHALT PAVEMENT
- PROPOSED HEAVY DUTY ASPHALT PAVEMENT
- PROPOSED CONCRETE PAVEMENT
- PROPOSED PERVIOUS PAVERS (SIMILAR TO T.P.O. PAVERS) (SEE SHEET 6.1 FOR DETAIL)

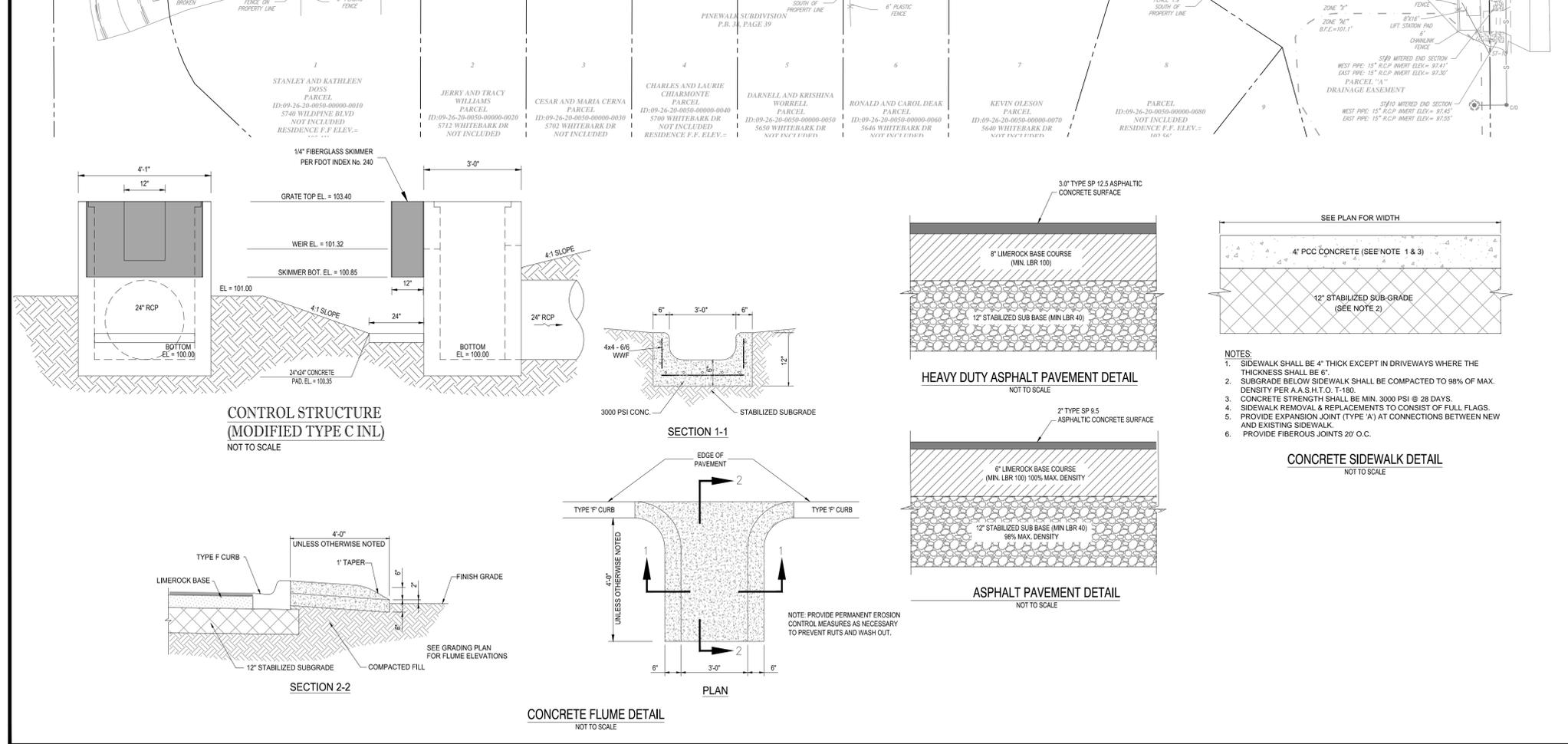


- ### GENERAL NOTES:
- CONTRACTOR WILL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
 - CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CASTING STRUCTURES.
 - COORDINATE ALL UTILITY LEADS AND BUILDING CONNECTIONS WITH THE ARCHITECTURAL PLANS.
 - STANDARD INDEXES REFER TO THE LATEST EDITION OF F.D.O.T. 'ROADWAY AND TRAFFIC DESIGN STANDARDS'.
 - ALL DISTURBED AREAS WITHIN RIGHT-OF-WAY WILL NEED TO BE SODED.
 - CONTRACTOR SHALL SEED, STRAW AND STABILIZE THE BANK OUTPARCEL PRIOR TO COMPLETION.

- ### PAVING AND GRADING NOTES:
- A. GENERAL:
- ALL ELEVATIONS SHOWN ARE IN REFERENCE TO THE SURVEYOR'S BENCHMARKS AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO GROUND BREAK.
 - ALL GRADES SHOWN REFERENCE PROPOSED ELEVATIONS AT EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED. 'TC' = TOP OF CURB ELEVATION; 'BC' = BOTTOM OF CURB ELEVATION; 'MATCH' = PROPOSED GRADE TO MATCH EXISTING GRADE; 'B/W' = TOP OF RETAINING WALL ELEVATION; 'B/W' = BOTTOM OF RETAINING WALL ELEVATION.
 - THE ALTA/ACSM LAND TITLE SURVEY SHALL BE CONSIDERED A PART OF THESE PLANS.
 - THE GEOTECHNICAL REPORT AND RECOMMENDATIONS SET FORTH THEREIN ARE A PART OF THE REQUIRED CONSTRUCTION DOCUMENTS AND IN CASE OF CONFLICT SHALL TAKE PRECEDENCE UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF ANY SUCH DISCREPANCY BETWEEN REPORT AND PLANS, ETC.
 - ALL UNDERGROUND UTILITIES SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF LIMEROCK BASE.
 - ALL EXISTING PAVEMENT, CUT OR DAMAGED BY CONSTRUCTION, SHALL BE PROPERLY RESTORED AT THE CONTRACTOR'S EXPENSE.
 - WHERE ANY PROPOSED PAVEMENT IS TO BE CONNECTED TO EXISTING PAVEMENT, THE EXISTING EDGE OF PAVEMENT SHALL BE SAW CUT TO ENSURE A PROPER JOINT.
 - PRIOR TO THEIR CONSTRUCTION OR INSTALLATION, SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER OF RECORD. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL OTHER AGENCY APPROVALS IF REQUIRED.
 - ALL AREAS WITHIN THE COUNTY RIGHT OF WAY DISTURBED THROUGH THE COURSE OF CONSTRUCTION WILL BE RE-GRADED AND SODED.
- B. MATERIALS:
- BASE COURSE SHALL BE ABC-3 PER F.D.O.T. SPECIFICATIONS, OR EQUIVALENT LIMEROCK THICKNESS W/ MIN. LBR-100 (MAX. 6" LIFTS).
 - ASPHALT SURFACES SHALL BE TYPE SP 9.5 ASPHALTIC CONCRETE, UNLESS OTHERWISE SPECIFIED ON THE PLANS, AND SHALL BE A MINIMUM OF 1-1/2" THICK, AND CONSTRUCTED IN TWO 3/4" LIFTS, WITH TACKCOAT BETWEEN LIFTS.
 - REINFORCED CONCRETE SLABS SHALL BE CONSTRUCTED OF CLASS I CONCRETE WITH A MINIMUM STRENGTH OF 3,000 PSI AND SHALL BE REINFORCED WITH A 6" x 6" NO. 6 GAUGE WIRE MESH.
- C. INSTALLATION:
- SUBGRADE FOR ROADWAY SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DENSITY (AASHTO T-180), TO A MIN. 12" AND SHALL HAVE A MINIMUM LBR 40.
 - BASE COURSE MATERIAL FOR PAVED AREAS SHALL BE A MINIMUM THICKNESS OF 6" PLACED IN ONE LIFT, BASE COURSE MATERIAL SHALL HAVE A MINIMUM MARSHALL STABILITY OF 1000, UNLESS OTHERWISE INDICATED (OR LBR-100).
 - BASE COURSE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
 - INSTALLATION OF THE WEARING SURFACE SHALL CONFORM TO THE REQUIREMENTS OF THE D.O.T. STANDARD SPECIFICATIONS FOR TYPE SP 9.5 ASPHALTIC CONCRETE OR THE LATEST REVISION.
- D. TESTING:
- THE FINISHED SURFACE OF THE BASE COURSE AND THAT OF THE WEARING SURFACE SHALL NOT VARY MORE THAN 1/4" FROM THE TEMPLATE, ANY IRREGULARITIES EXCEEDING THIS LIMIT SHALL BE CORRECTED.
 - DENSITY TESTS SHALL BE TAKEN BY AN INDEPENDENT TESTING LABORATORY CERTIFIED BY THE STATE OF FLORIDA, WHERE DIRECTED BY THE ENGINEER.
 - ALL TESTING COSTS (PAVING) SHALL BE PAID FOR BY THE CONTRACTOR.
 - DENSITY TESTS ON THE STABILIZED SUBGRADE SHALL BE SUPPLIED TO THE ENGINEER OF RECORD AND GEOTECHNICAL ENGINEER, AND APPROVED BEFORE ANY BASE IS CONSTRUCTED.
 - DENSITY TESTS AND 'AS-BUILTS' ON THE FINISHED BASE SHALL BE SUPPLIED TO THE GEOTECHNICAL ENGINEER, AND APPROVED BEFORE ANY ASPHALT PAVEMENT IS CONSTRUCTED.

- ### STORM DRAINAGE NOTES:
- A. GENERAL:
- DISTANCES AND LENGTHS OF PIPE SHOWN ON PLANS ARE REFERENCED TO THE CENTER OF STRUCTURES.
- B. MATERIALS:
- REINFORCED CONCRETE PIPE (RCP) SHALL MEET THE REQUIREMENTS OF ASTM C-76, CLASS III, WALL THICKNESS "B", LATEST REVISION. RUBBER GASKETS OR OTHER MANUFACTURER SUPPLIED JOINT SEALER SHALL BE USED.
 - ALL PVC DRAINAGE PIPE AND FITTINGS SHALL BE CONSTRUCTED OF POLYVINYL CHLORIDE (PVC) PIPE CONFORMING TO ASTM D 3034, SDR 35, WITH PUSH-ON RUBBER GASKET JOINTS.
 - ALL HIGH DENSITY POLYETHYLENE PIPE AND FITTINGS SHALL MEET THE REQUIREMENTS OF AASHTO M - 294 LATEST REVISIONS. ALL PIPING TO BE NON-PERFORATED TUBING.
 - PROPOSED 'CURB INLET' STRUCTURES SHALL BE STANDARD FDOT TYPE 'C' CURB INLET TOPS, PER FDOT INDEX #214.
 - PROPOSED 'GRATE INLETS' SHALL BE STANDARD FDOT TYPE 'C' DITCH BOTTOM INLETS, PER FDOT INDEX #232.
 - PROPOSED CONTROL STRUCTURE SHALL BE STANDARD FDOT TYPE 'C' DITCH BOTTOM INLETS, PER FDOT INDEX #232. CONTROL STRUCTURES SHALL HAVE SKIMMERS ATTACHED AND BE INSTALLED PER FDOT INDEX #240.
 - PROPOSED BUBBLER STRUCTURES SHALL BE STANDARD FDOT TYPE 'C' DITCH BOTTOM INLETS, PER FDOT INDEX #232.
- C. INSTALLATION:
- PIPE SHALL BE PLACED ON A MINIMUM OF 8 INCHES STABLE GRANULAR MATERIAL FREE OF ROCK FORMATION AND OTHER FOREIGN FORMATIONS, AND CONSTRUCTED TO A UNIFORM GRADE AND LINE.
 - BACKFILL MATERIAL SHALL BE WELL GRADED GRANULAR MATERIAL, WELL TAMPED IN LAYERS NOT TO EXCEED 6 INCHES TO A HEIGHT OF 12 INCHES ABOVE PIPE AS SHOWN ON THE PLANS.
 - PROVIDE A MINIMUM PROTECTIVE COVER OF 18 INCHES OVER STORM SEWER AND AVOID UNNECESSARY CROSSING BY HEAVY CONSTRUCTION VEHICLES DURING CONSTRUCTION.

- ### DATUM NOTE:
- ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE MONUMENT DESIGNATED "W27 106" AND "X 758" PER THE NATIONAL GEODETIC SURVEY WEBSITE (HTTP://WWW.NGSD.GOV), NORTH AMERICAN VERTICAL DATUM OF 1988. ON SITE ELEVATIONS ARE AS FOLLOWS:
 BENCHMARK NO. 1, ELEVATION = 106.32 FEET
 BENCHMARK NO. 2, ELEVATION = 102.25 FEET
- ### FEMA MAP INFORMATION:
- THE PROPERTY SHOWN HEREON APPEARS TO FALL WITHIN FLOOD ZONE FLOOD ZONE "X", AS SHOWN ON THE FLOOD INSURANCE RATE MAP, 1201C 0427 F, MAP REVISED 09/26/2014, NATIONAL FLOOD INSURANCE PROGRAM, FEDERAL EMERGENCY MANAGEMENT AGENCY.



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PROJECT No.: FT160018
 DRAWN BY: HR
 CHECKED BY: EMM
 DATE: 07/21/2016
 SCALE: AS NOTED
 CAD I.D.: FT160018-C-6-RD

STORAGE FACILITIES SR 54 & WILDPINE BLVD.

FOR

CURLEY ROAD
 WESLEY CHAPEL
 PASCO COUNTY

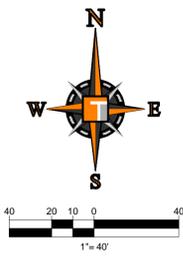
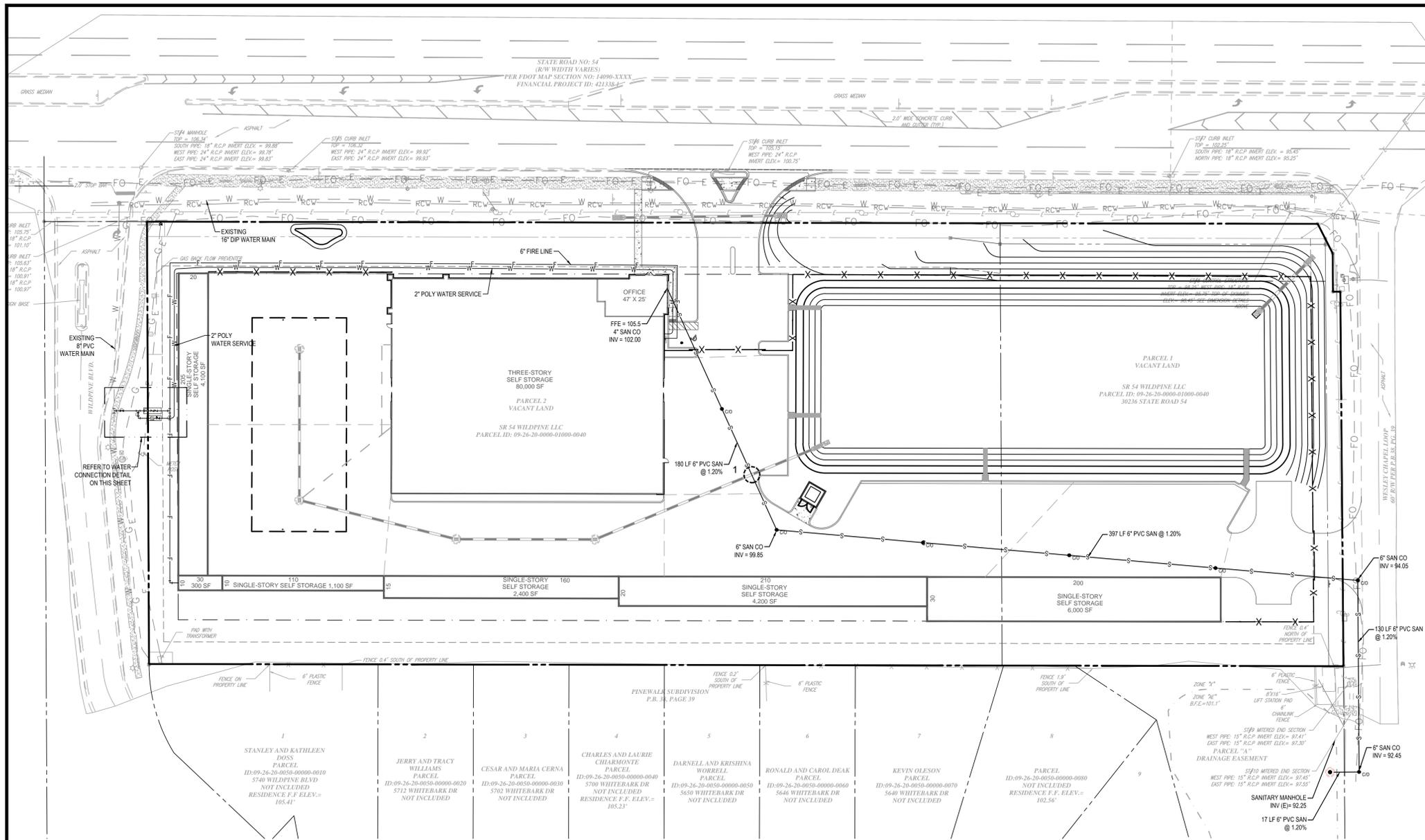
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CRAIG T. BOISSEAU, P.E.
 September 6, 2016
 FLORIDA LICENSE No. 67551
 FLORIDA BUSINESS CERT. OF AUTH. No. 27528

SHEET TITLE:
PAVING, GRADING AND DRAINAGE PLAN

SHEET NUMBER:
C-6
 OF



LEGEND

- PROPERTY LINE
- - - - - EXISTING STORM SEWER
- - - - - EXISTING SANITARY SEWER
- - - - - EXISTING WATER MAIN
- - - - - EXISTING ELECTRIC
- - - - - PROPOSED SANITARY SEWER
- - - - - PROPOSED WATER MAIN
- - - - - PROPOSED FIRE MAIN
- - - - - PROPOSED GAS MAIN
- - - - - PROPOSED ELECTRIC CONDUIT
- - - - - PROPOSED FIBER OPTIC CONDUIT
- - - - - PROPOSED TELEPHONE CONDUIT
- - - - - PROPOSED UTILITY CROSSING
- - - - - PROPOSED SANITARY CLEANOUT

FIRE PROTECTION NOTES:

- ALL PROJECTS MUST COMPLY WITH PASCO COUNTY FIRE HYDRANT ORDINANCE NO. 46-51.
- FIRE HYDRANTS MUST BE IN INSTALLED AND IN SERVICE PRIOR TO THE ACCUMULATION OF COMBUSTIBLES.
- 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.
- PER NFPA-1, 18.3.4.1: CLEARANCES OF 7 1/2 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.
- GATED ENTRIES REQUIRE A SIREN OPERATING SYSTEM OR A 3M OPTICOM SYSTEM FOR EMERGENCY ACCESS.
- FIRE HYDRANTS SHALL BE FLOW-TESTED AND COLOR-CODED BASED ON FLOW RESULTS.

WATER SERVICE NOTES:

- IN CONSIDERATION OF PASCO COUNTY'S AGREEMENT TO PROVIDE POTABLE WATER AND/OR RECLAIMED WATER TO THE SUBJECT PROPERTY, DEVELOPER/OWNER, AND ITS SUCCESSORS AND ASSIGNS, AGREE TO THE FOLLOWING:
 - IN THE EVENT OF PRODUCTION FAILURE OR SHORTFALL BY TAMPA BAY WATER, AS SET FORTH IN SECTION 3.19 OF THE INTERLOCAL AGREEMENT CREATING TAMPA BAY WATER, DEVELOPER/OWNER SHALL TRANSFER TO PASCO COUNTY ANY AND ALL WATER USE PERMITS OR WATER USE RIGHTS THE DEVELOPER/OWNER MAY HAVE TO USE OR CONSUME SURFACE OR GROUND WATER WITHIN PASCO COUNTY.
 - PRIOR TO THE DEVELOPER/OWNER SELLING WATER OR WATER USE PERMITS OR WATER USE RIGHTS, DEVELOPER/OWNER SHALL NOTIFY PASCO COUNTY, AND PASCO COUNTY SHALL HAVE A RIGHT OF FIRST REFUSAL TO PURCHASE SUCH WATER OR WATER USE PERMITS OR WATER USE RIGHTS.
- CONNECTIONS INTO AN EXISTING COUNTY-OWNED SYSTEM SHALL BE VIA WET TAP. WET TAPS SHALL BE PERFORMED EXCLUSIVELY BY THE UTILITIES SERVICES BRANCH AT THE DEVELOPER'S EXPENSE. EXCAVATION, BACKFILL AND SURFACE RESTORATION SHALL BE THE CONTRACTOR'S RESPONSIBILITY. MATERIAL FOR WET TAPS LARGER THAN TWO INCHES SHALL BE PROVIDED AND INSTALLED BY THE PROJECT CONTRACTOR.

WATER DISTRIBUTION NOTES:

- CONTRACTOR SHALL FOLLOW GUIDELINES AND PROCEDURES OUTLINED BY UTILITY PROVIDER, AND HAVE UTILITY PROVIDER'S MANUAL ON-SITE AT ALL TIMES. THIS POLICY MANUAL SHALL BE CONSIDERED PART OF THE CONSTRUCTION DOCUMENTS AS IT PERTAINS TO APPROVED MATERIALS, INSTALLATION METHODS, INSPECTION NOTIFICATION AND AS-BUILT/PROJECT CLOSEOUT REQUIREMENTS.
- ALL HIGH DENSITY POLYETHYLENE PIPE AND FITTINGS SHALL MEET THE REQUIREMENTS OF AASHTO M - 294 LATEST REVISIONS. ALL PIPING TO BE NON-PERFORATED TUBING.

PASCO COUNTY UTILITY NOTES:

- ALL UTILITY SYSTEM-DESIGN MATERIALS AND WORKMANSHIP SHALL COMPLY WITH STANDARDS FOR DESIGN AND CONSTRUCTION OF CHAPEL, WASTEWATER, AND RECLAIMED WATER FACILITIES SPECIFICATIONS, LATEST EDITION.
- THE UTILITIES SERVICES BRANCH SHALL NOT OWN OR MAINTAIN ON-SITE WATERLINES, SEWER LINES, OR FACILITIES, UNLESS OTHERWISE APPROVED BY THE UTILITIES SERVICE BRANCH.

CONTRACTOR'S RESPONSIBILITIES:

- (REGARDING WET TAPS 2" AND LARGER)
- 2" ONLY** - THIS EXCAVATED TRENCH MUST BE DRY OR THE TRENCH WILL REQUIRE ROCK AND A PUMP TO BE IN PLACE. THE MINIMUM DISTANCE FROM THE FACE OF THE VALVE TO THE WALL OF THE TRENCH IS TO BE SIX FEET.
 - 3" AND LARGER** - THE CONTRACTOR WILL SUPPLY A TAPPING SADDLE BEING EPOXY COATED, A TAPPING VALVE WITH MECHANICAL JOINT AND THE EQUIPMENT TO PROVIDE, AND CONDUCT A PRESSURE TEST. COUNTY PERSONNEL WILL WITNESS THE PRESSURE TEST WHICH MUST BE AT 150 PSI FOR DURATION OF THIRTY MINUTES.
 - THE CONTRACTOR IS RESPONSIBLE FOR THE EXCAVATION BEFORE ANY COUNTY PERSONNEL WILL ENTER AN EXCAVATED AREA. IF THE TRENCH IS FOUR FEET IN DEPTH OR DEEPER, IT WILL REQUIRE A TRENCH BOX FOR SLOPING, AND A LADDER ACCORDING TO OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS.
 - THE TAPPING VALVE WILL REQUIRE A BLOCKING DEVICE MADE OF SUITABLE MATERIAL OR DEVICE. THIS BLOCKING DEVICE OR MATERIAL WILL BE PLACED UNDER THE VALVE AND REMAIN IN PLACE UNTIL THE TAP MACHINE IS REMOVED AND THE TAP IS COMPLETED.
 - NOTE: IF THE CONTRACTOR HAS NOT FULFILLED HIS RESPONSIBILITIES, AS STATED ABOVE, PRIOR TO THE ARRIVAL OF PASCO COUNTY UTILITIES OPERATIONS AND MAINTENANCE TAPPING CREW, THERE WILL BE AN ADDITIONAL CHARGE OF \$92.00.

C.O. REQUIREMENT NOTES:

PRIOR TO THE ISSUANCE OF THE C.O., THE FOLLOWING MUST BE SUBMITTED TO UTILITIES SERVICE BRANCH: TWO (2) SIGNED AND SEALED RECORD DRAWINGS AND TWO (2) PDF, AUTOCAD R13 ELECTRONIC, 2000 VERSION DISC IN COLOR FOR THE ENTIRE SYSTEM.

DATUM NOTE:

ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE MONUMENT DESIGNATED "W27 106" AND "X 758" PER THE NATIONAL GEODETIC SURVEY WEBSITE (HTTP://WWW.NGSS.GOV). NORTH AMERICAN VERTICAL DATUM OF 1988. ON SITE ELEVATIONS ARE AS FOLLOWS:
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FEMA MAP INFORMATION:

THE PROPERTY SHOWN HEREON APPEARS TO FALL WITHIN FLOOD ZONE "X", AS SHOWN ON THE FLOOD INSURANCE RATE MAP, 1201C 0421 F, MAP REVISED 09/26/2014, NATIONAL FLOOD INSURANCE PROGRAM, FEDERAL EMERGENCY MANAGEMENT AGENCY.

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 TAMPA, FL 33609
 1000 CORPORATE DR.
 FT. LAUDERDALE, FLORIDA 33304

REVISIONS

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PROJECT No.: FT160018
 DRAWN BY: HR
 CHECKED BY: EMM
 DATE: 07/21/2016
 SCALE: AS NOTED
 CAD I.D.: FT160018-C-7-UTIL

PROJECT:

STORAGE FACILITIES SR 54 & WILDPINE BLVD.

FOR

JOHNSON DEVELOPMENT ASSOCIATES, INC.
 CURLEY ROAD
 WESLEY CHAPEL
 PASCO COUNTY

THOMAS ENGINEERING GROUP
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 TAMPA, FLORIDA 33609
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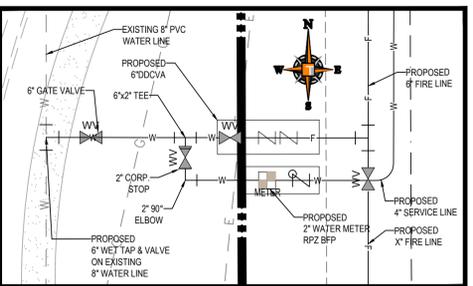
CRAIG T. BOISSEAU, P.E.
 August 31, 2016
 FLORIDA LICENSE No. 67551
 FLORIDA BUSINESS CERT. OF AUTH. No. 27528

SHEET TITLE:
UTILITY PLAN
 SHEET NUMBER:
C-7
 OF

UTILITY CONTACTS:

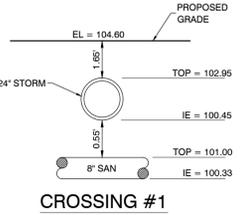
- COMMUNICATIONS**
 BRIGHT HOUSE NETWORKS - EAST PASCO
 30432 S.R. 54
 WESLEY CHAPEL, FL 33643
 813-862-0522
- PHONE**
 VERIZON FLORIDA INC
 1909 US HWY 301 N
 TAMPA, FL 33619
 813-627-8343
- SEWER & WATER**
 PASCO COUNTY UTILITIES
 7530 LITTLE ROAD, ROOM 205
 NEW PORT RICHEY, FL 34654
 727-847-8145
- GAS**
 TECO PEOPLE'S GAS - TAMPA
 1400 CHANNELSIDE DRIVE
 TAMPA, FL 33605
 813-275-3743
- ELECTRIC**
 WITHLACOOCHIE RIVER
 ELECTRIC COOPERATIVE
 P.O. BOX 278
 DADE CITY, FL 33526
 352-588-5115
- FIRE RESCUE**
 4111 LAND O'LAKES BLVD
 SUITE 208
 LAND O'LAKES, FL 34639
 813-929-2750

A SEPARATE PLAN AND PERMIT, ISSUED TO A CONTRACTOR LICENSED BY THE FLORIDA STATE FIRE MARSHAL'S OFFICE, IS REQUIRED FOR THE INSTALLATION OF UNDERGROUND FIRE LINES.

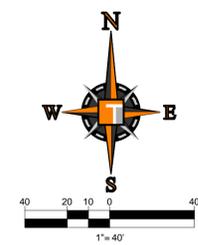
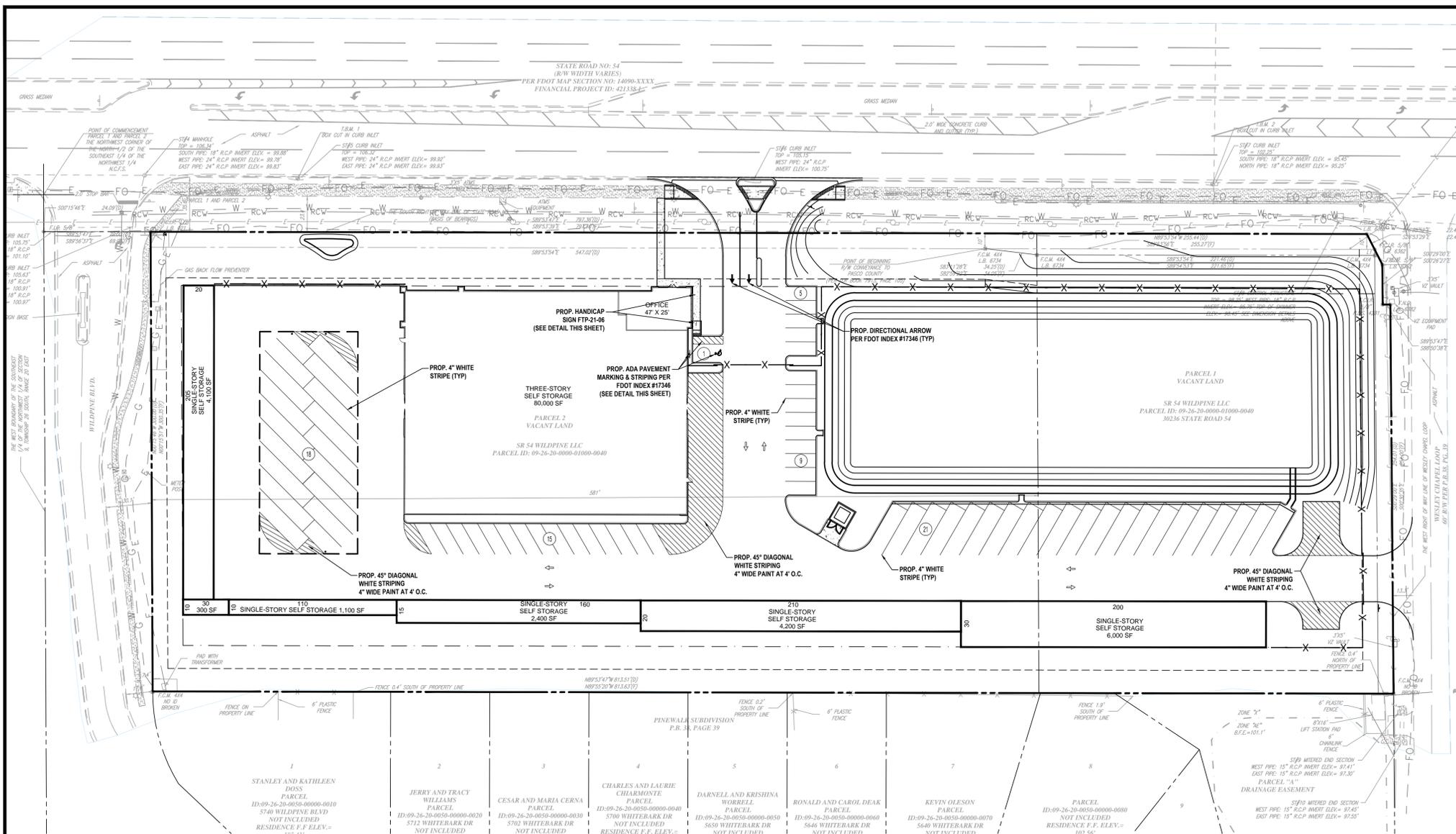


WATER CONNECTION DETAIL

SCALE: 1" = 10'



CROSSING #1



LEGEND:

- PROPERTY LINE
- PROPOSED HEAVY DUTY ASPHALT PAVEMENT
- PROPOSED PARKING SPACE PLAN
- DIRECTIONAL ARROW FOR SITE PLAN INFORMATION ONLY
- DIRECTIONAL ARROW TO BE PAINTED

THOMAS
ENGINEERING GROUP

CIVIL ENGINEERS - PROJECT MANAGERS - LAND PLANNING - LANDSCAPE ARCHITECTS

OFFICES:
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PROJECT No.:	FT160018
DRAWN BY:	HR
CHECKED BY:	EMM
DATE:	07/21/2016
SCALE:	AS NOTED
CAD I.D.:	FT160018-C-S-PMS

PROJECT:
**STORAGE FACILITIES
SR 54 & WILDPINE BLVD.**

FOR

JOHNSON DEVELOPMENT ASSOCIATES, INC.

CURLY ROAD
WESLEY CHAPEL
PASCO COUNTY

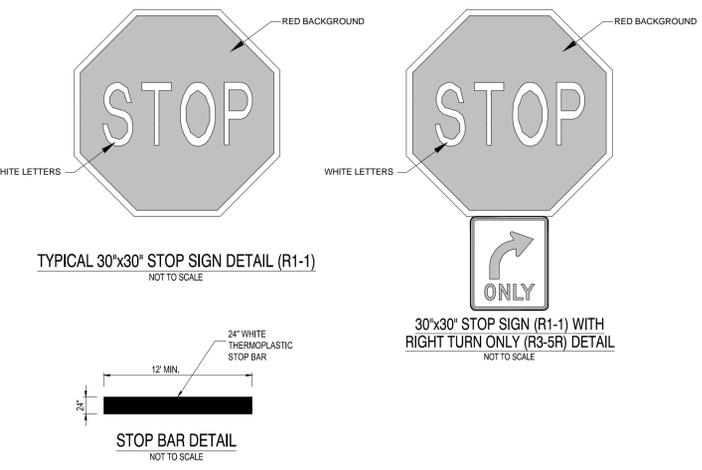
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CRAIG T. BOISSEAU, P.E.
August 31, 2016
FLORIDA LICENSE No. 67551
FLORIDA BUSINESS CERT. OF AUTH. No. 27528

SHEET TITLE:
**PAVEMENT MARKING
AND SIGNAGE PLAN**

SHEET NUMBER:
C-8
OF

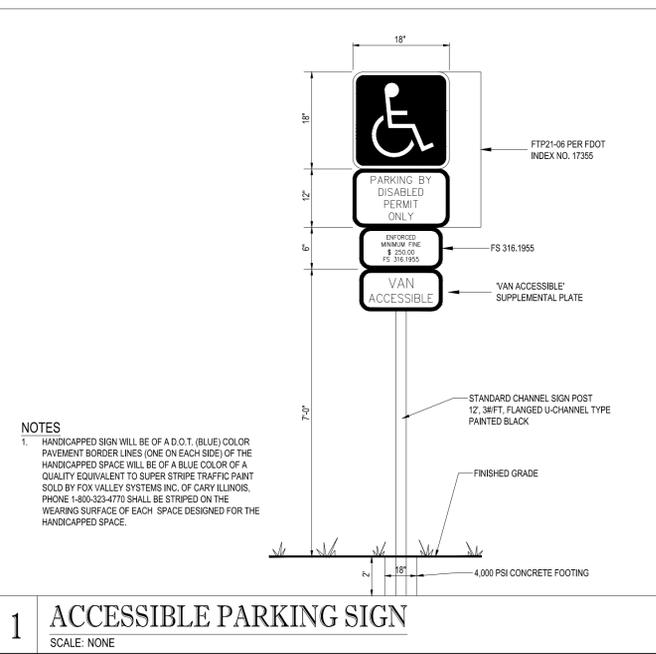


FIRE DEPARTMENT NOTES
THE FOLLOWING IS REQUIRED FOR TEMPORARY ACCESS SIGNAGE FOR NEW CONSTRUCTION SITES:

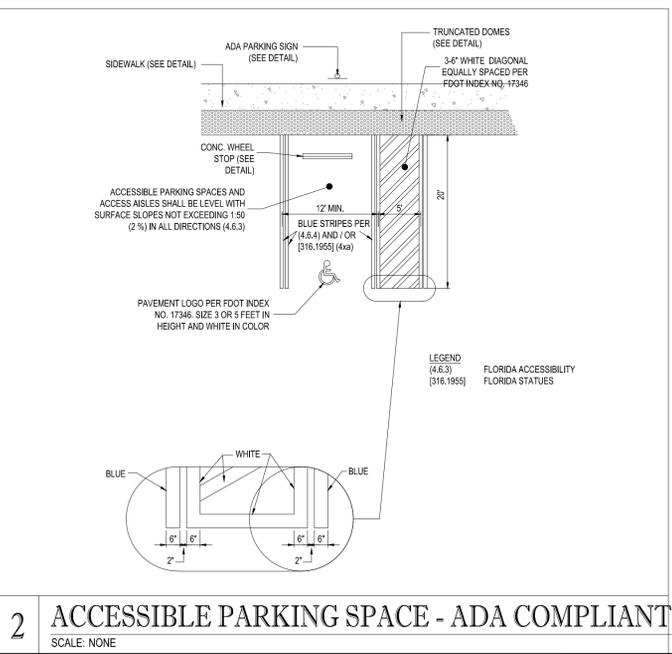
- SIGNAGE SIGN SHALL READ 'FIRE DEPARTMENT ACCESS' AND SHALL INCLUDE SITE ADDRESS, OR RANGE OF ADDRESSES, FOR ALL COMMERCIAL SITES AND RESIDENTIAL MODEL HOMES.
- SIZE: THE TWO-SIDED SIGN PLATE SHALL BE A MINIMUM OF 4X4 FEET
- COLOR: THE SIGN SHALL HAVE A RED BACKGROUND WITH A WHITE LEGEND.
- LETTERING FOR THE SIGN SHALL BE FOUR INCH.
- ADDRESS ON SIGN SHALL BE TWO AND ONE HALF INCH.
- LOCATION: SIGN SHALL BE INSTALLED AT EACH POINT OF ENTRY.
- TOP OF SIGN SHALL BE SIX FEET ABOVE GRADE ON POSTS

FIRE LANE SIGNS SHALL BE INSTALLED ON OR ALONG A BOUNDARY OF ALL FIRE LANES. THE NUMBER, PLACEMENT AND DESIGN OF SIGNS SHALL BE DETERMINED BY THE FFPC OR THE FIRE MARSHAL:

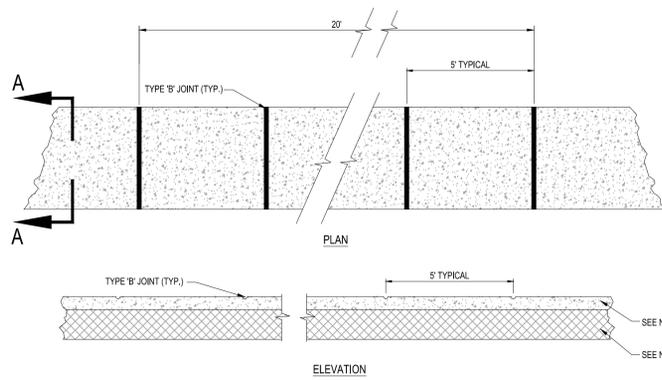
- SIGN SIZE: 12 INCHES WIDE BY 18 INCHES HIGH
- LETTERING SIZE: 2" HIGH
- COLORS: WHITE BACKGROUND WITH RED LETTERS MESSAGE
- FIRE LANE - 'NO PARKING FIRE LANE BY ORDER OF THE FIRE DEPARTMENT.'
- FIRE LANE WITH FDC - 'NO PARKING FIRE DEPARTMENT CONNECTION' OR 'NO PARKING - FDC'
- SPACE BETWEEN SIGNS: 60 FEET
- SIGN HEIGHT: 7 FEET ABOVE GRADE AT BOTTOM OF SIGN H. NUMBER OF SIGN FACES: SIGNS MOUNTED ON A POST SHALL BE DOUBLE-FACED



1 ACCESSIBLE PARKING SIGN
SCALE: NONE

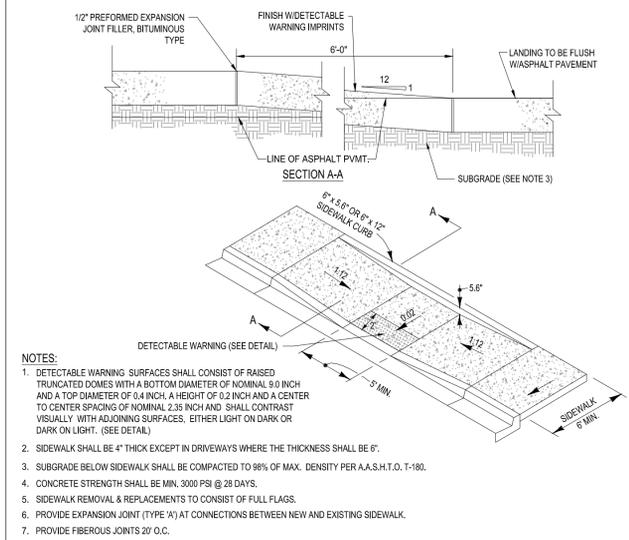
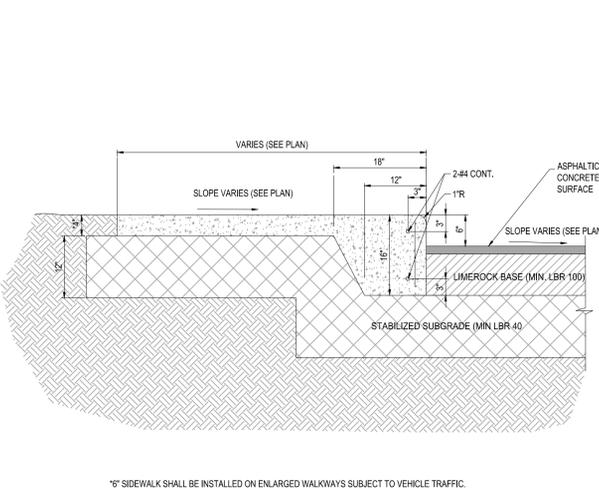
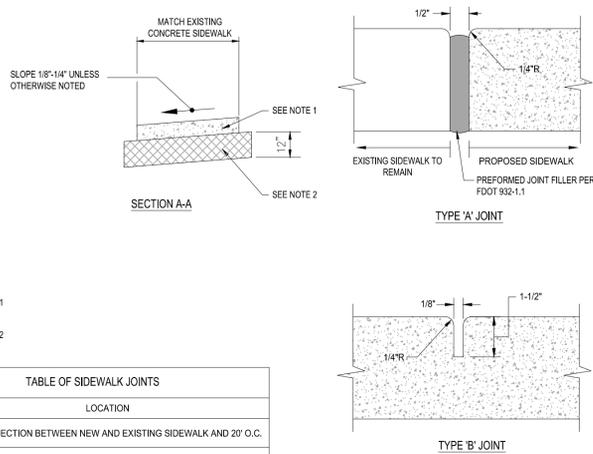


2 ACCESSIBLE PARKING SPACE - ADA COMPLIANT
SCALE: NONE



- NOTES:
- SIDEWALK SHALL BE 4" THICK EXCEPT IN DRIVEWAYS WHERE THE THICKNESS SHALL BE 6".
 - SUBGRADE BELOW SIDEWALK SHALL BE COMPACTED TO 98% OF MAX. DENSITY PER A.A.S.H.T.O. T-180. (12" THICKNESS)
 - CONCRETE STRENGTH SHALL BE MIN. 3000 PSI @ 28 DAYS.
 - SIDEWALK REMOVAL & REPLACEMENTS TO CONSIST OF FULL FLAGS.
 - PROVIDE EXPANSION JOINT (TYPE 'A') AT CONNECTIONS BETWEEN NEW AND EXISTING SIDEWALK.

TABLE OF SIDEWALK JOINTS	
TYPE	LOCATION
'A'	AT CONNECTION BETWEEN NEW AND EXISTING SIDEWALK AND 20' O.C.
'B'	5 FEET CENTER TO CENTER ON SIDEWALKS.

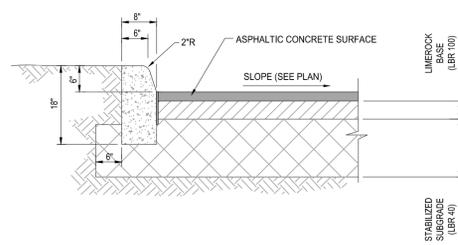


- NOTES:
- DETECTABLE WARNING SURFACES SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A BOTTOM DIAMETER OF NOMINAL 9.0 INCH AND A TOP DIAMETER OF 0.4 INCH. A HEIGHT OF 0.2 INCH AND A CENTER TO CENTER SPACING OF NOMINAL 2.35 INCH AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT ON DARK OR DARK ON LIGHT. (SEE DETAIL)
 - SIDEWALK SHALL BE 4" THICK EXCEPT IN DRIVEWAYS WHERE THE THICKNESS SHALL BE 6".
 - SUBGRADE BELOW SIDEWALK SHALL BE COMPACTED TO 98% OF MAX. DENSITY PER A.A.S.H.T.O. T-180.
 - CONCRETE STRENGTH SHALL BE MIN. 3000 PSI @ 28 DAYS.
 - SIDEWALK REMOVAL & REPLACEMENTS TO CONSIST OF FULL FLAGS.
 - PROVIDE EXPANSION JOINT (TYPE 'A') AT CONNECTIONS BETWEEN NEW AND EXISTING SIDEWALK.
 - PROVIDE FIBEROUS JOINTS 20' O.C.

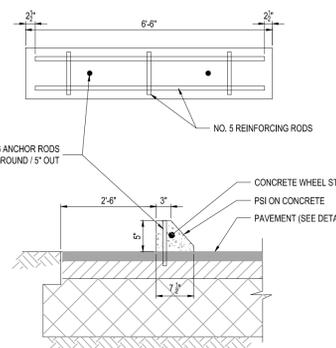
1 SIDEWALK DETAILS
SCALE: NONE

2 THICKENED EDGE SIDEWALK DETAIL
SCALE: NONE

3 ADA SIDEWALK RAMP DETAIL-FDOT INDEX 304
SCALE: NONE

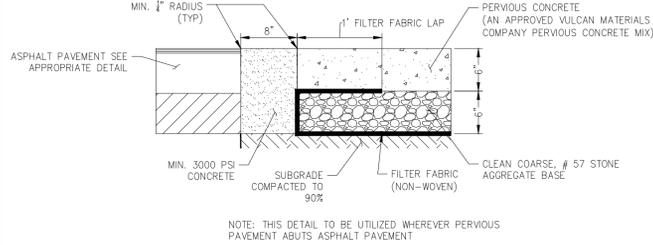


5 CONCRETE CURB (TYPE 'D') DETAIL
SCALE: NONE

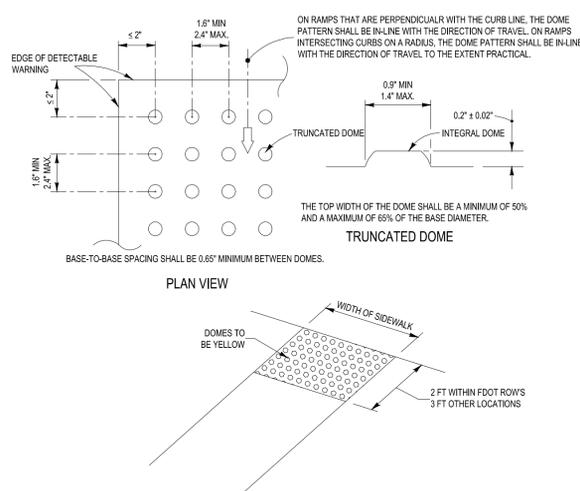


- NOTES:
- WHEEL STOP FORM SIZES MAY VARY DEPENDING ON MANUFACTURER.
 - WHEEL STOPS SHALL BE PAINTED BLUE AT HOOP SPACES, UNPAINTED AT REGULAR SPACES.
 - WHEEL STOP TO BE CENTERED IN PARKING SPACE.

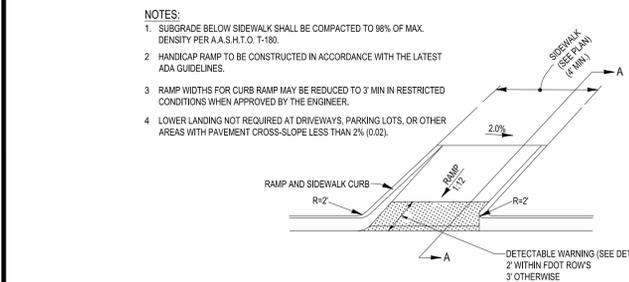
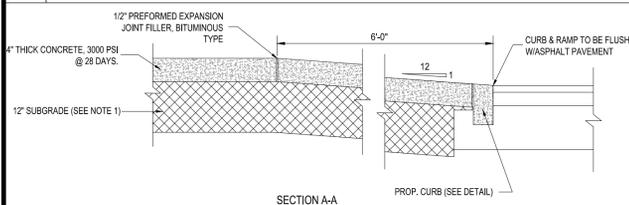
6 CONCRETE WHEEL STOP
SCALE: NONE



7 FLUSH CURB DETAIL
SCALE: NONE



8 ADA RAMP DETECTABLE WARNING DETAIL
SCALE: NONE



- NOTES:
- SUBGRADE BELOW SIDEWALK SHALL BE COMPACTED TO 98% OF MAX. DENSITY PER A.A.S.H.T.O. T-180.
 - HANDICAP RAMP TO BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST ADA GUIDELINES.
 - RAMP WIDTHS FOR CURB RAMP MAY BE REDUCED TO 3' MIN IN RESTRICTED CONDITIONS WHEN APPROVED BY THE ENGINEER.
 - LOWER LANDINGS NOT REQUIRED AT DRIVEWAYS, PARKING LOTS, OR OTHER AREAS WITH PAVEMENT CROSS-SLOPE LESS THAN 2% (0.02).

9 CURB RAMP CR-E DETAIL FDOT INDEX 304
SCALE: NONE

10 CURB RAMP CR-G DETAIL FDOT INDEX 304
SCALE: NONE

THOMAS ENGINEERING GROUP
 CIVIL ENGINEERS - PROJECT MANAGERS - LAND PLANNING - LANDSCAPE ARCHITECTS
 OFFICES:
 1000 CORPORATE DR.
 FT. LAUDERDALE, FLORIDA 33304
 4950 W. KENNEDY BLVD.
 TAMPA, FLORIDA 33609

REVISIONS

REV	DATE	COMMENT	BY

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PERMIT SET

PROJECT No.:	FT160018
DRAWN BY:	14R
CHECKED BY:	EMM
DATE:	07/21/2016
SCALE:	AS NOTED
CAD I.D.:	FT160018-C-9-SITE DTLS

PROJECT:
STORAGE FACILITIES SR 54 & WILDPINE BLVD.

FOR

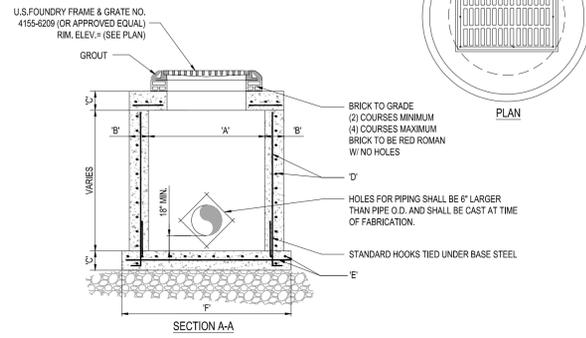
 JOHNSON DEVELOPMENT ASSOCIATES, INC.
 DEVELOPMENT CONSULTANTS

CURLEY ROAD
 WESLEY CHAPEL
 PASCO COUNTY

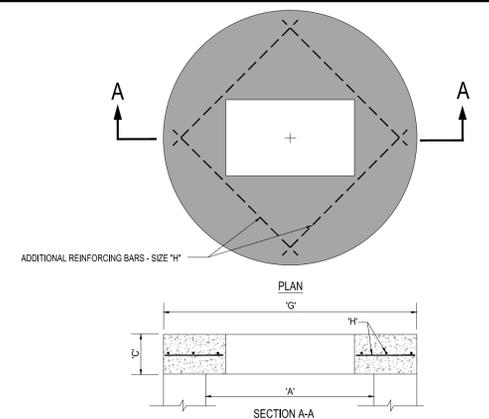
THOMAS ENGINEERING GROUP
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CRAIG T. BOISSEAU
 LICENSE
 No. 67551
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 CRAIG T. BOISSEAU, P.E.
 August 31, 2016
 FLORIDA LICENSE No. 67551
 FLORIDA BUSINESS CERT. OF AUTH. No. 27528

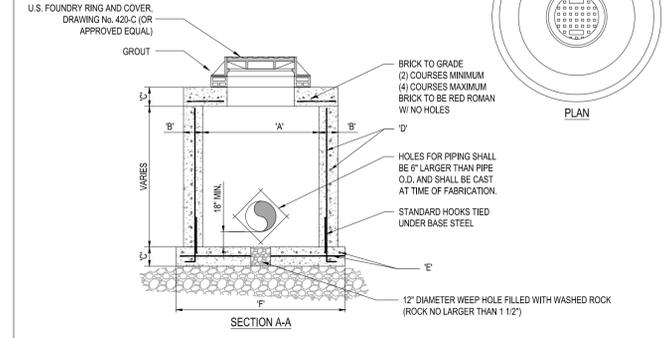
SHEET TITLE:
SITE DETAILS
 SHEET NUMBER:
C-9
 OF



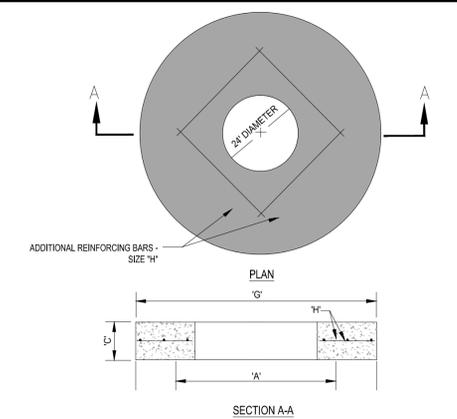
TYPE	"A"	"B"	"C"	"D"	"E"	"F"
C-4	4'-0" Ø	8"	8"	# 4 @ 12" C.C.E.W.	# 4 @ 12" C.C.E.W.	6'-4" Ø
C-5	5'-0" Ø	8"	8"	# 5 @ 12" C.C.E.W.	# 5 @ 12" C.C.E.W.	7'-4" Ø
C-6	6'-0" Ø	8"	8"	# 5 @ 12" C.C.E.W.	# 5 @ 6" C.C.E.W.	8'-4" Ø
C-7	7'-0" Ø	8"	8"	# 5 @ 12" C.C.E.W.	# 5 @ 6" C.C.E.W.	9'-4" Ø
C-8	8'-0" Ø	10"	10"	2-W.W.M. w/ # 4 @ 12" C.C. VERT	# 5 @ 6" C.C.E.W.	10'-8" Ø



TYPE	"A"	"C"	"G"	"H"
C-4	4'-0" Ø	8"	5'-4" Ø	# 4 @ 6" C.C.E.W.
C-5	5'-0" Ø	8"	6'-4" Ø	# 5 @ 8" C.C.E.W.
C-6	6'-0" Ø	8"	7'-4" Ø	# 5 @ 6" C.C.E.W.
C-7	7'-0" Ø	8"	8'-4" Ø	# 5 @ 6" C.C.E.W.
C-8	8'-0" Ø	10"	9'-8" Ø	# 5 @ 6" C.C.E.W.



TYPE	"A"	"B"	"C"	"D"	"E"	"F"
M-4	4'-0" Ø	8"	8"	# 4 @ 12" C.C.E.W.	# 4 @ 12" C.C.E.W.	6'-4" Ø
M-5	5'-0" Ø	8"	8"	# 5 @ 12" C.C.E.W.	# 5 @ 12" C.C.E.W.	7'-4" Ø
M-6	6'-0" Ø	8"	8"	# 5 @ 12" C.C.E.W.	# 5 @ 6" C.C.E.W.	8'-4" Ø
M-7	7'-0" Ø	8"	8"	# 5 @ 12" C.C.E.W.	# 5 @ 6" C.C.E.W.	9'-4" Ø
M-8	8'-0" Ø	10"	10"	2-W.W.M. w/ # 4 @ 12" C.C. VERT	# 5 @ 6" C.C.E.W.	10'-8" Ø



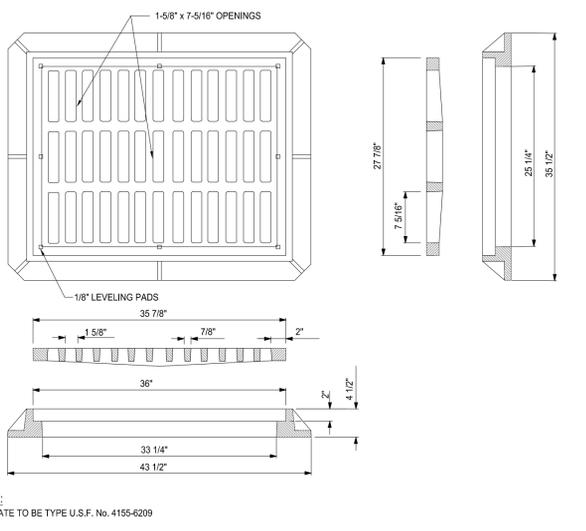
TYPE	"A"	"C"	"G"	"H"
M-4	4'-0" Ø	8"	5'-4" Ø	# 4 @ 6" C.C.E.W.
M-5	5'-0" Ø	8"	6'-4" Ø	# 5 @ 8" C.C.E.W.
M-6	6'-0" Ø	8"	7'-4" Ø	# 5 @ 6" C.C.E.W.
M-7	7'-0" Ø	8"	8'-4" Ø	# 5 @ 6" C.C.E.W.
M-8	8'-0" Ø	10"	9'-8" Ø	# 5 @ 6" C.C.E.W.

1 PRECAST CIRCULAR CATCH BASIN
SCALE: NONE

2 PRECAST CONCRETE-TOP SLAB
SCALE: NONE

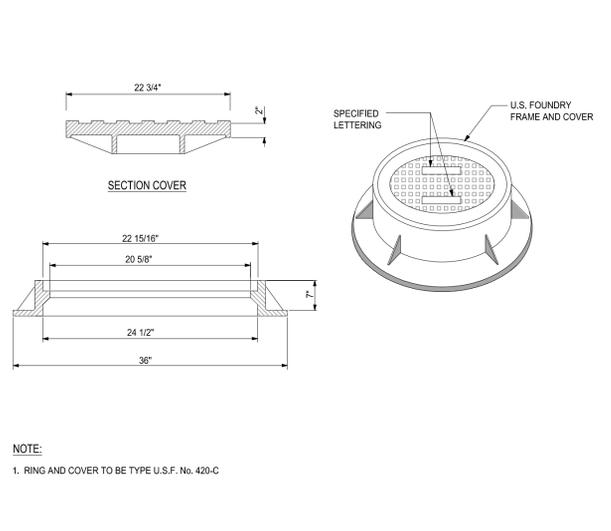
3 PRECAST CIRCULAR DRAINAGE MANHOLE
SCALE: NONE

4 PRECAST CONCRETE-TOP SLAB FOR DRAINAGE MANHOLES
SCALE: NONE



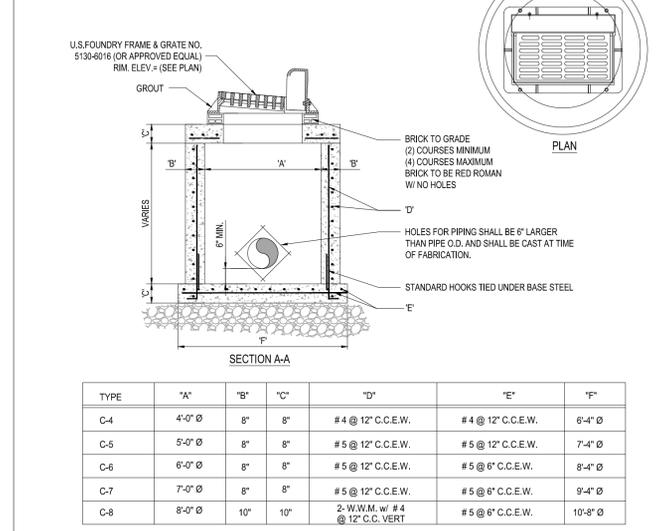
NOTE:
1. GRATE TO BE TYPE U.S.F. No. 4155-6209

5 FRAME AND GRATE DETAIL
SCALE: NONE



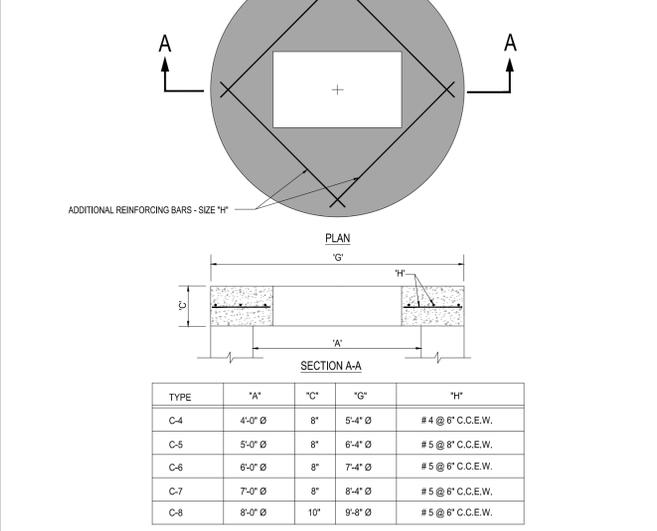
NOTE:
1. RING AND COVER TO BE TYPE U.S.F. No. 420-C

6 MANHOLE FRAME DETAIL
SCALE: NONE



TYPE	"A"	"B"	"C"	"D"	"E"	"F"
C-4	4'-0" Ø	8"	8"	# 4 @ 12" C.C.E.W.	# 4 @ 12" C.C.E.W.	6'-4" Ø
C-5	5'-0" Ø	8"	8"	# 5 @ 12" C.C.E.W.	# 5 @ 12" C.C.E.W.	7'-4" Ø
C-6	6'-0" Ø	8"	8"	# 5 @ 12" C.C.E.W.	# 5 @ 6" C.C.E.W.	8'-4" Ø
C-7	7'-0" Ø	8"	8"	# 5 @ 12" C.C.E.W.	# 5 @ 6" C.C.E.W.	9'-4" Ø
C-8	8'-0" Ø	10"	10"	2-W.W.M. w/ # 4 @ 12" C.C. VERT	# 5 @ 6" C.C.E.W.	10'-8" Ø

7 PRECAST CIRCULAR CURB INLET
SCALE: NONE



TYPE	"A"	"C"	"G"	"H"
C-4	4'-0" Ø	8"	5'-4" Ø	# 4 @ 6" C.C.E.W.
C-5	5'-0" Ø	8"	6'-4" Ø	# 5 @ 8" C.C.E.W.
C-6	6'-0" Ø	8"	7'-4" Ø	# 5 @ 6" C.C.E.W.
C-7	7'-0" Ø	8"	8'-4" Ø	# 5 @ 6" C.C.E.W.
C-8	8'-0" Ø	10"	9'-8" Ø	# 5 @ 6" C.C.E.W.

8 PRECAST CONCRETE-TOP SLAB
SCALE: NONE

THOMAS
ENGINEERING GROUP

CIVIL ENGINEERS - PROJECT MANAGERS - LAND PLANNING - LANDSCAPE ARCHITECTS

OFFICES:
4950 W. KENNEDY BLVD.
TAMPA, FLORIDA 33609

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FT. LAUDERDALE, FLORIDA 33334

REGISTERED PROFESSIONAL ENGINEER
STATE OF FLORIDA
LICENSE NO. 67551

REVISIONS

REV	DATE	COMMENT	BY

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PERMIT SET

PROJECT No.:	FT160018
DRAWN BY:	HR
CHECKED BY:	EMM
DATE:	07/21/2016
SCALE:	AS NOTED
CAD I.D.:	FT160018-C-9-2-P&D DTLS

PROJECT:

**STORAGE FACILITIES
SR 54 & WILDPINE BLVD.**

FOR

JOHNSON DEVELOPMENT ASSOCIATES, INC.
LANDSCAPE DEVELOPMENT

CURLEY ROAD
WESLEY CHAPEL
PASCO COUNTY

THOMAS
ENGINEERING GROUP

4950 W. KENNEDY BLVD, SUITE 600
TAMPA, FLORIDA 33609

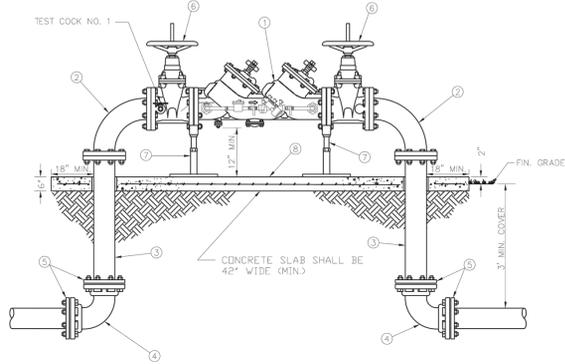
Phone: (813) 379-4100
Fax: (813) 379-4040

www.ThomasEngineeringGroup.com

CRAIG T. BOISSEAU, P.E.
August 31, 2016
FLORIDA LICENSE No. 67551
FLORIDA BUSINESS CERT. OF AUTH. No. 27528

SHEET TITLE:
**PAVING, GRADING AND
DRAINAGE DETAILS**

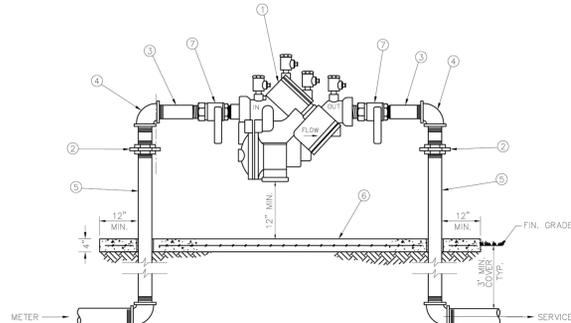
SHEET NUMBER:
C-9.2
OF



ITEM	QUANT.	DESCRIPTION
1	1	3", 4", 6", 8" DOUBLE CHECK VALVE/BFP ASSEMBLY WITH DETECTOR ASSEMBLY
2	2	3", 4", 6", 8" BEND, 90° FLANGE x FLANGE
3	2	3", 4", 6", 8" SPOOL, PIECE FLG. x PE. D.I.P.
4	2	3", 4", 6", 8" BEND, 90° M.J. x M.J.
5	4	3", 4", 6", 8" GLAND, RETAINER M.J. (MEGALUG)
6	2	3", 4", 6", 8" VALVE, GATE FLG. x FLG. RESILIENT WEDGE O.S. & Y.
7	2	SUPPORT (AS NEEDED)
8	1	CONCRETE SLAB (6" THICK - 42" WIDE MIN.)

- NOTE:
- NO TIE RODS OR EYE BOLT RETAINERS PERMITTED ABOVE GROUND.
 - B.F.P. ASSEMBLY TO BE INSTALLED LEVEL & PLUMB.
 - MINIMUM CLEARANCE OF 36" TO BE MAINTAINED AROUND ENTIRE DEVICE FOR TESTING.
 - ENTIRE ASSEMBLY TO BE PAINTED SAFETY BLUE.
 - DETECTOR BY-PASS ASSEMBLY TO BE FACTORY INSTALLED AND CERTIFIED.
 - ALL MECHANICAL JOINTS SHALL BE RESTRAINED WITH MEGALUGS OR APPROVED EQUAL.
 - BELL JOINT RESTRAINTERS SHALL BE PROVIDED ON ALL UNDERGROUND PIPING AS SPECIFIED IN JOINT RESTRAINT TABLE DETAIL.
 - ALL ABOVE GROUND PIPING SHALL BE FLANGED DUCTILE IRON PIPE (NO GALVANIZED OR PVC).
 - ITEM 3 SHALL BE FIELD CUT TO PROPER LENGTH TO ACHIEVE DESIGNATED GROUND CLEARANCE.
 - IF SO SPECIFIED, ENTIRE ASSEMBLY TO BE ENCLOSED IN 6" CHAIN LINK FENCE.
 - BFP DEVICE MUST BE LISTED WITH THE UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH.

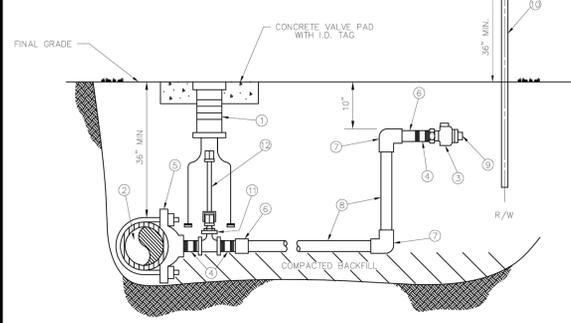
CREATED	02/24/03	DOUBLE DETECTOR CHECK VALVE ASSEMBLY/BACKFLOW PREVENTER (SINGLE SERVICE: 3", 4", 6", 8", 10")	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.
REVISED			
		PASCO COUNTY UTILITIES	DETAIL 10



ITEM	QUANT.	DESCRIPTION
1	1	BACKFLOW PREVENTER ASSEMBLY, REDUCED PRESSURE ZONE
2	2	UNIONS - GALV.
3	2	NIPPLES - BRASS
4	2	ELBOWS - GALV. 90°
5	2	RISER - GALV.
6	+	CONCRETE SLAB
7	2	BALL VALVES - BRASS OR S.S. (PROVIDED WITH BFP ASS'Y)

- NOTE:
- FIELD ADJUST AND CUT ITEM 5 TO THE PROPER LENGTH.
 - MINIMUM CLEARANCE OF 24" TO BE MAINTAINED AROUND DEVICE FOR TESTING.
 - ENTIRE ASSEMBLY TO BE PAINTED SAFETY BLUE.
 - CONCRETE SLAB TO EXTEND 12" MIN. AROUND ENTIRE DEVICE.
 - DEVICE MUST BE LISTED WITH THE UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH.

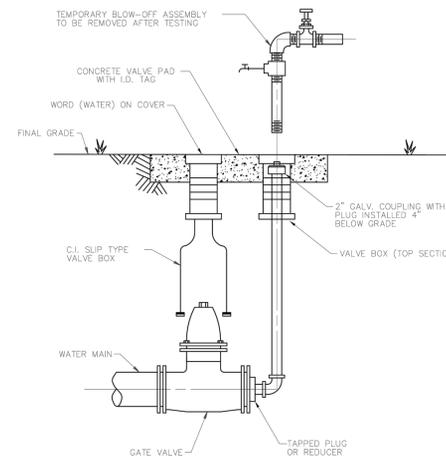
CREATED	02/24/03	REDUCED PRESSURE BACKFLOW PREVENTER (SINGLE SERVICE: 3/4", 1", 1-1/2", 2")	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.
REVISED			
		PASCO COUNTY UTILITIES	DETAIL 12



ITEM	QUANT.	DESCRIPTION
1		BOX VALVE CAST IRON SLIP TYPE
2	*	4" & LARGER PIPE, PVC (DR-18) OR D.I.P. (CLASS 50)
3	2	1 1/2", 2" CURB STOP BALL VALVE W/ LOCK WINGS (FIP x FIP OR FIP x CTS)
4	3	1 1/2", 2" NIPPLE, BRASS OR STAINLESS STEEL
5	1	1 1/2", 2" SADDLE, SERVICE (P.P. THREADED)
6	2	1 1/2", 2" ADAPTER (PVC SCH 40 / SLIP x FPT OR BRASS MP x CTS)
7	2	1 1/2", 2" 90° ELBOW (SLIP x SLIP) SCH 40 (NOT REQUIRED FOR HDPE)
8	*	1 1/2", 2" PIPE, PVC (SCH 40) OR HDPE (3408) - LENGTH VARIES
9	1	1 1/2", 2" PLUG, THREADED (W/ TEFLON TAPE)
10	1	2" x 4" P.T. MARKER STAKE
11	1	2" GATE VALVE, IRON BODY W/ SQUARE NUT
12	1	VALVE EXTENSION ROD, AS REQUIRED (3' MAX. BELOW GRADE)

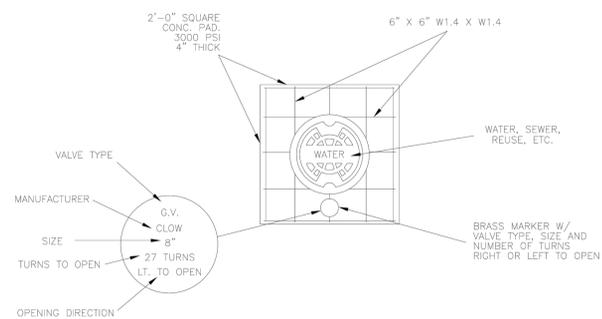
- NOTE:
- A VALVE BOX SHALL BE REQUIRED ON ALL GATE VALVES.
 - SERVICE SADDLES SHALL BE INSTALLED ON ALL TAPS TO P.V.C. (DR-18) WATER MAINS.
 - 2" GATE VALVE TO BE RESILIENT WEDGE IRON BODY TYPE WITH 2" OPERATING UNIT.
 - SADDLES 4" AND LARGER TO BE DUCTILE IRON DUAL STRAP TYPE.
 - 1 1/2" BRASS REDUCER BUSHING REQUIRED WITH ITEM NO. 11 FOR 1 1/2" SERVICE.
 - MARKER STAKES PAINTED SAFETY BLUE FOR WATER, PURPLE FOR REUSE.
 - 4" DIAMETER CASING REQUIRED FOR ROAD CROSSINGS.

CREATED	02/24/03	WATER AND REUSE LATERAL SERVICE 1 1/2" OR 2" SERVICE LATERAL PVC (SCHEDULE 40)	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.
REVISED			
		PASCO COUNTY UTILITIES	DETAIL 21

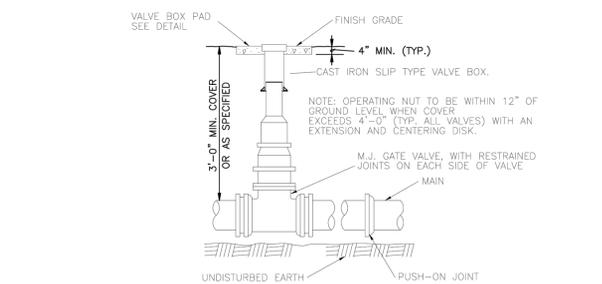


- NOTES:
- MECHANICAL JOINTS/UNDERGROUND PIPING SHALL BE RESTRAINED AS SPECIFIED IN JOINT RESTRAINT TABLE (DETAIL 48)
 - VALVE EXTENSION ROD SHALL BE UTILIZED, AS NECESSARY, SO THAT VALVE OPERATING NUT IS A MAXIMUM OF 3' BELOW GRADE.

CREATED	02/24/03	PERMANENT BLOW-OFF DETAIL	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.
REVISED			
		PASCO COUNTY UTILITIES	DETAIL 28



TYPICAL CONCRETE VALVE PAD



CREATED	02/24/03	VALVE BOX DETAIL SLIP TYPE	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.
REVISED			
		PASCO COUNTY UTILITIES	DETAIL 30

PIPE RESTRAINT LENGTHS IN FEET COMMON FITTINGS

		WATER MAINS - TEST PRESSURE 150 PSI				
		FITTING TYPE				
		11-1/4°	22-1/2°	45°	90°	DEAD END
PIPE SIZE	4"	2'	4'	8'	20'	45'
	6"	3'	6'	12'	28'	63'
	8"	4'	7'	15'	36'	82'
	10"	4'	9'	18'	43'	98'
	12"	5'	10'	21'	50'	116'
	20"	7'	15'	31'	76'	179'
24"	9'	17'	36'	87'	208'	
		FORCE MAINS - TEST PRESSURE 100 PSI				
		FITTING TYPE				
		11-1/4°	22-1/2°	45°	90°	DEAD END
PIPE SIZE	4"	1'	3'	6'	13'	30'
	6"	2'	4'	8'	19'	42'
	8"	2'	5'	10'	24'	55'
	10"	3'	6'	12'	29'	66'
	16"	4'	8'	18'	42'	99'
	20"	5'	10'	21'	50'	119'
24"	6'	11'	24'	58'	139'	

RESTRAINT LENGTHS ARE MEASURED FROM THE CENTER LINE OF THE FITTING ALONG THE PIPE IN BOTH DIRECTIONS (EXCEPT DEAD ENDS).

CREATED	02/24/03	RESTRAINED JOINT TABLE COMMON FITTINGS	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.
REVISED			
		PASCO COUNTY UTILITIES	DETAIL 31

PIPE RESTRAINT LENGTHS IN FEET TEES (BRANCH SIDE)

		WATER MAINS - TEST PRESSURE 150 PSI								
		BRANCH SIZE								
		3"	4"	6"	8"	10"	12"	16"	20"	24"
RUN SIZE	3"	6'	14'	30'	—	—	—	—	—	—
	4"	2'	11'	28'	44'	—	—	—	—	—
	6"	1'	2'	22'	40'	52'	—	—	—	—
	8"	1'	1'	16'	35'	48'	62'	—	—	—
	10"	1'	1'	10'	30'	44'	58'	83'	—	—
	12"	1'	1'	3'	25'	40'	55'	80'	103'	—
16"	1'	1'	1'	14'	31'	48'	75'	98'	119'	
20"	1'	1'	1'	2'	22'	40'	69'	94'	116'	
24"	1'	1'	1'	1'	11'	31'	63'	89'	111'	

RESTRAINT LENGTHS ARE MEASURED FROM THE CENTER LINE OF THE TEE ALONG THE BRANCH FOR THE DISTANCE INDICATED. A MINIMUM OF 5 FEET OF RESTRAINED PIPE MUST BE INSTALLED ON BOTH RUNS OF THE TEE. MEGALUG TYPE RESTRAINTERS ARE REQUIRED ON ALL JOINTS.

CREATED	02/24/03	RESTRAINED JOINT TABLE TEES (BRANCH SIDE)	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.
REVISED			
		PASCO COUNTY UTILITIES	DETAIL 32

THOMAS
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CIVIL ENGINEERS - PROJECT MANAGERS - LAND PLANNING - LANDSCAPE ARCHITECTS

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TAMPA, FLORIDA 33609
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PROJECT No.:	FT160018
DRAWN BY:	HR
CHECKED BY:	EMM
DATE:	07/21/2016
SCALE:	AS NOTED
CAD I.D.:	FT160018-C-9-3-U-DTL3

STORAGE FACILITIES SR 54 & WILDPINE BLVD.

FOR

JOHNSON DEVELOPMENT ASSOCIATES, INC.

CURLY ROAD
WESLEY CHAPEL
PASCO COUNTY

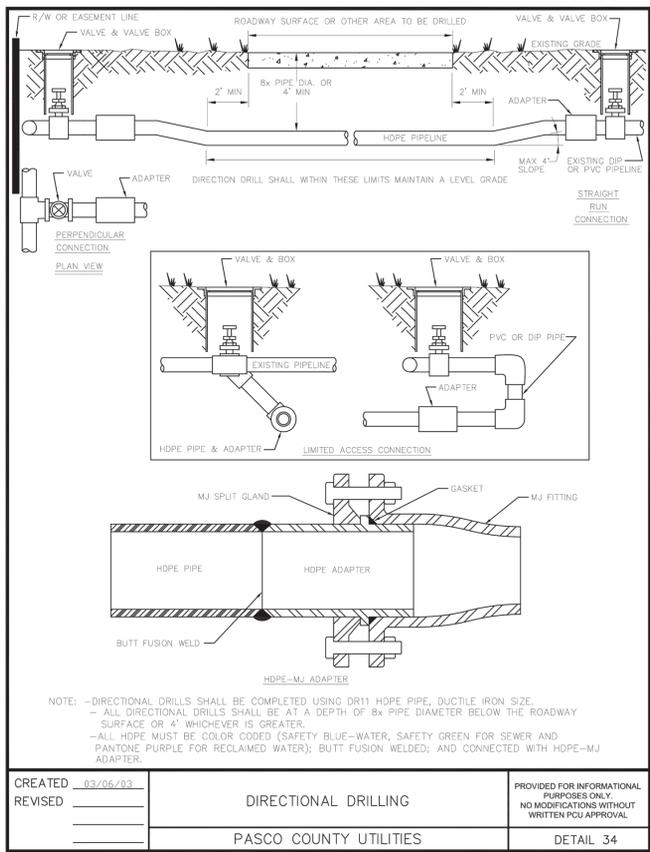
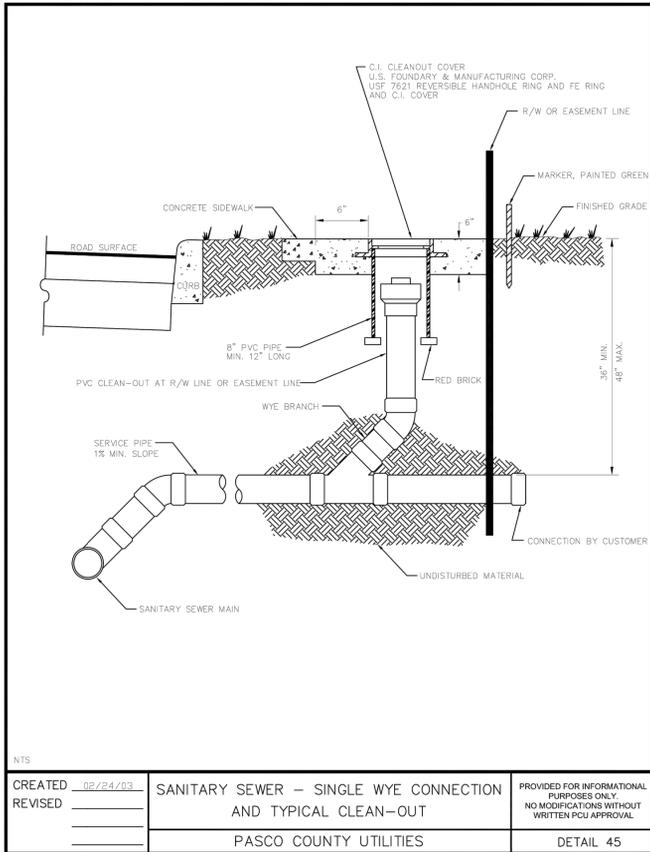
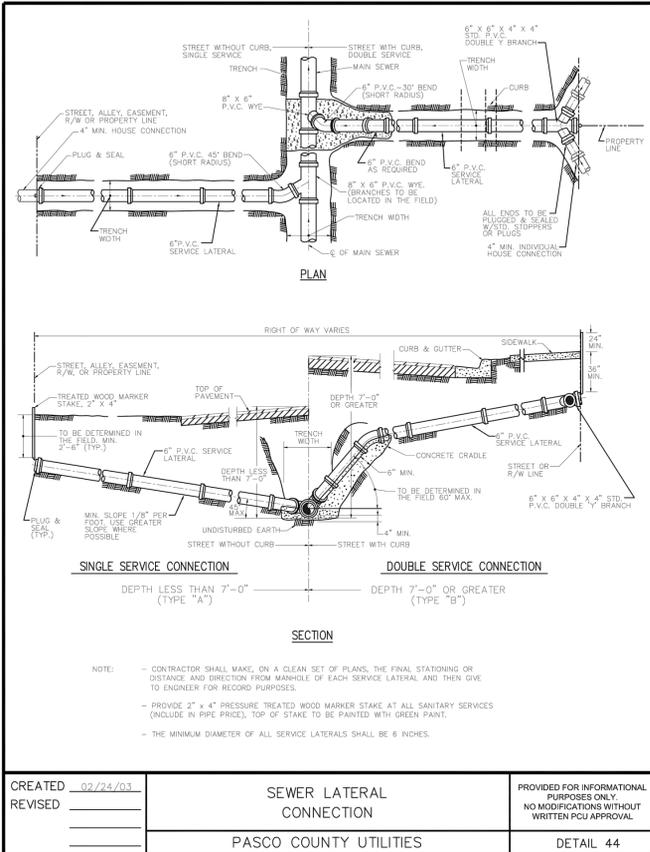
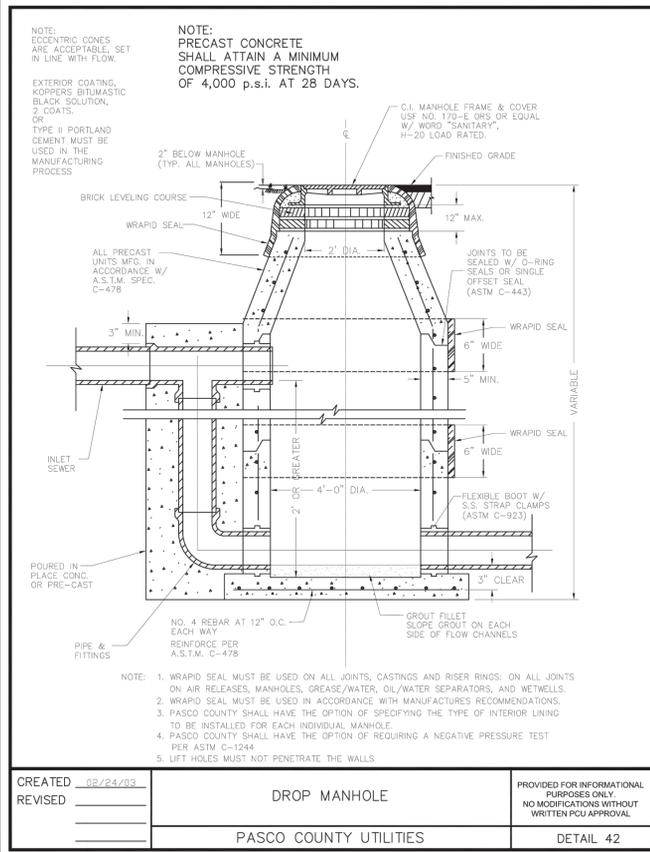
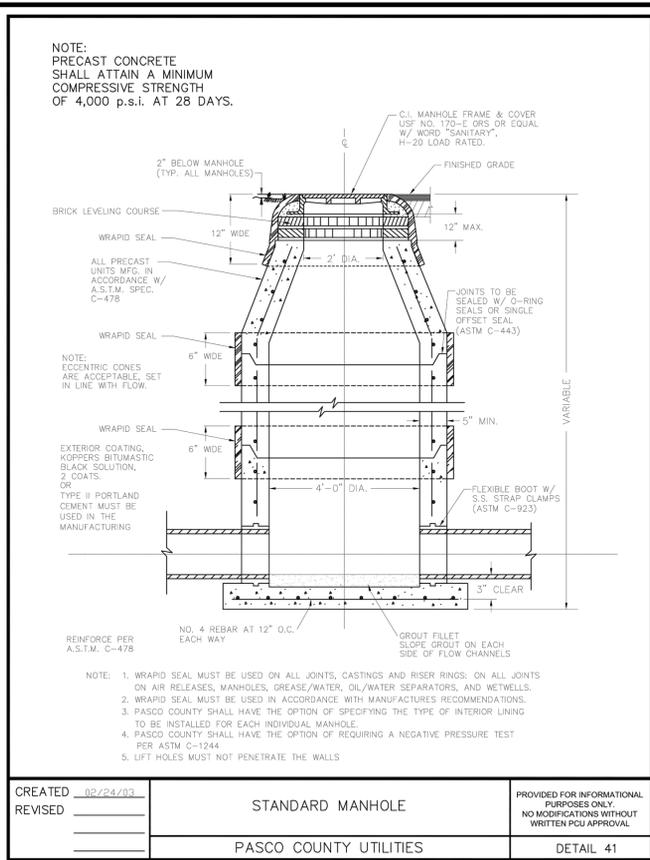
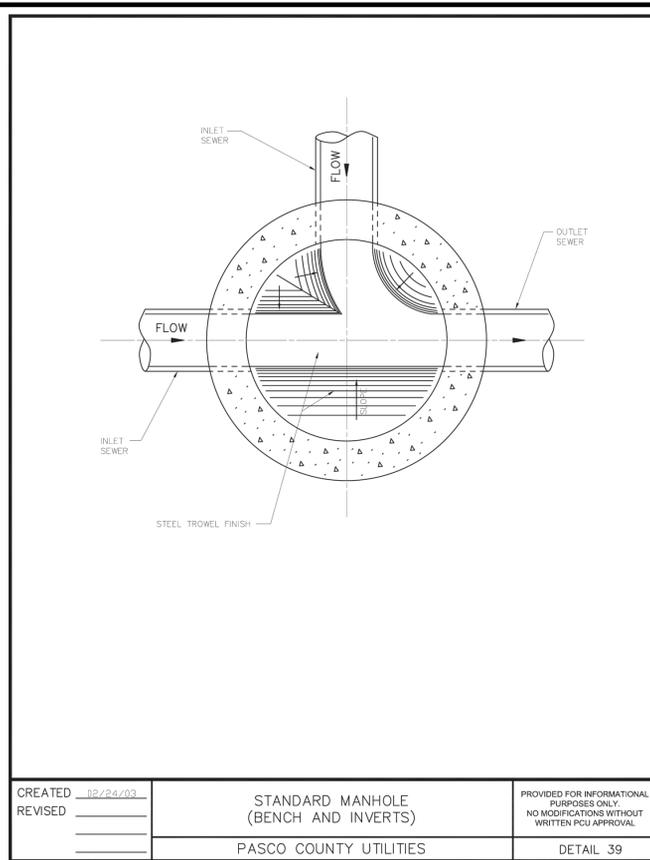
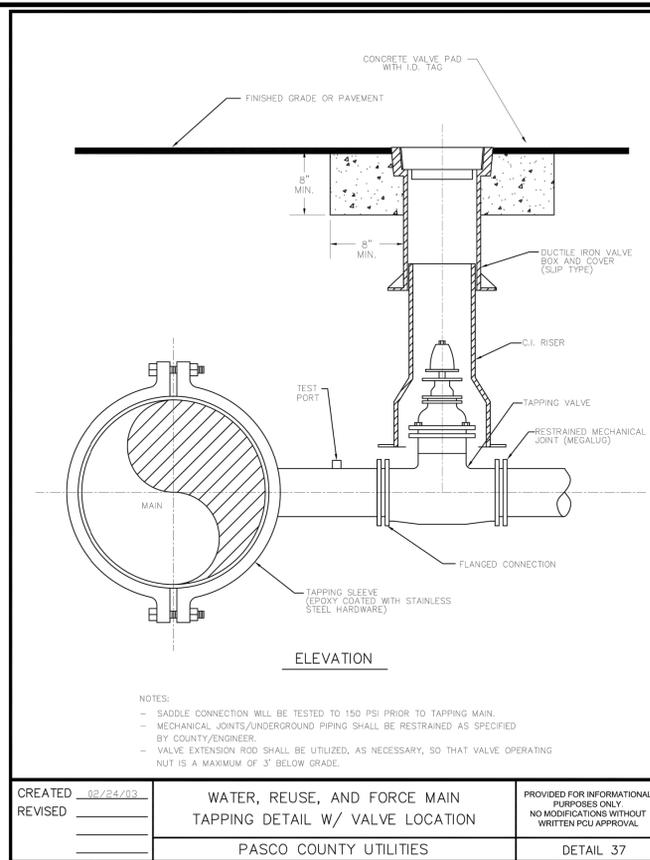
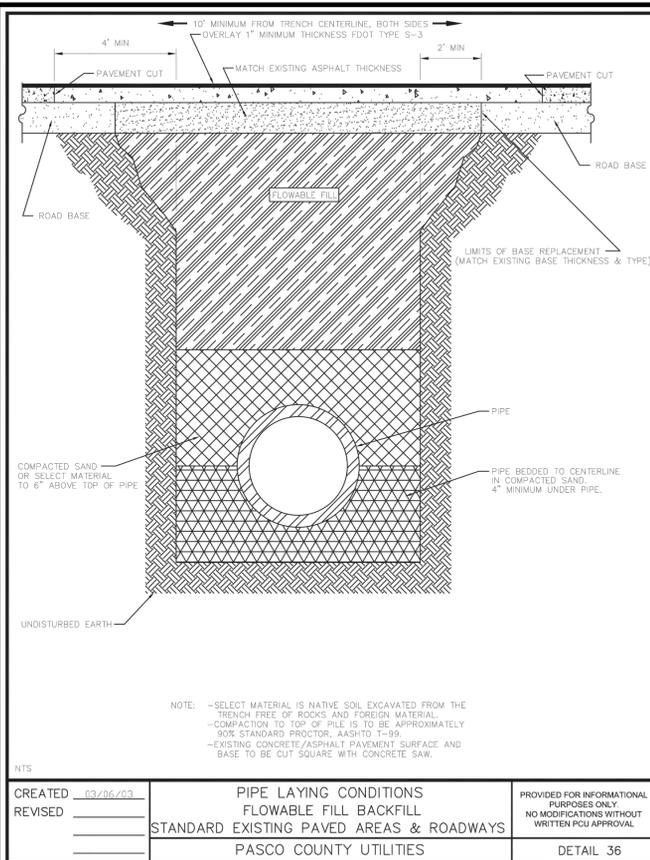
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September 1, 2016
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FLORIDA BUSINESS CERT. OF AUTH. No. 27528

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SHEET NUMBER:	C-9.3 OF



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DRAWN BY: HR
CHECKED BY: EMM
DATE: 07/21/2016
SCALE: AS NOTED
CAD I.D.: FT160018-C-9.5-U-DT15

PROJECT: STORAGE FACILITIES SR 54 & WILDPINE BLVD.

FOR

JOHNSON DEVELOPMENT ASSOCIATES, INC.
CONSULTING ENGINEERS

CURLEY ROAD
WESLEY CHAPEL
PASCO COUNTY

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