

PASCO COUNTY, FLORIDA
INTEROFFICE MEMORANDUM

TO: Joaquin A. Servia
Development
Review Manager

DATE: 12/15/14 FILE: PDD15-286

SUBJECT: Large Commercial
Development Review -
Cypress Creek Ice Hockey –
Construction Plan and
Stormwater Management Plan
and Report (Project
No. LRG14-013)
Recommendation: Approval
with Conditions (Attachment
No. 1)


FROM: Dorothy E. Masumian
Senior Development
Review Technician

REFERENCES: Land Development Code,
Sections 300, Procedures;
403, Site Development;
and 900, Development
Standards; Comm. Dist. 2

PROJECT DESCRIPTION:

Commission District:	The Honorable Mike Moore
Project Name:	Cypress Creek Ice Hockey
Developer's Name:	Z Mitch LLC
Location:	In Central Pasco County, on the west side of Cypress Ridge Boulevard, approximately one-quarter mile west of the intersection of S.R. 56 and Willow Oak Drive (Attachment No. 2)
Parcel ID No.:	26-26-19-0000-00100-0220
Land Use Classification:	MU (Mixed Use)
Zoning District:	MPUD Master Planned Unit Development
Acreage:	13.89 Acres, m.o.l.
Use/Square Feet:	Ice Hockey Rink (147,700 Square Feet)/Restaurant (2,800 Square Feet)
Flood Zone:	"X"
Water/Sewage:	Pasco
Transportation Analysis Zone:	187
Mobility Fee Assessment District:	A
Mobility Fee Collection/Benefit District:	3
Roads:	Public
Certificate of Capacity:	Initial

DEVELOPER'S REQUEST:

The applicant/developer of Cypress Creek Ice Hockey is requesting construction plan and stormwater management plan and report approval for a 2-story, 150,500-square-foot building, consisting of 147,700-square-foot ice hockey rink and a 2,800-square-foot restaurant (Attachment No. 3).

BACKGROUND AND FINDINGS OF FACT:

See Attachment No. 4.

CONCURRENCY ANALYSIS:

An Initial Certificate of Capacity was issued for 150,500 square feet. Any conditions required pursuant to the issuance of the certificate are attached to the Initial Certificate of Capacity.

RECOMMENDATION:

The Planning and Development Department recommends approval of the request with the attached conditions.

ATTACHMENTS:

1. Conditions of Approval
2. Location Map
3. Site Plan
4. Background and Findings of Fact


JAS/DS/dem/pdd15-286/12/12/14

**ATTACHMENT NO. 1 – CONDITIONS OF APPROVAL
CYPRESS CREEK ICE HOCKEY**

Hard-Copy Site Development Permit

1. Before commencing approved construction activities, the applicant/ developer or project contractor shall obtain from the Planning and Development Department an authorization to commence approved construction, a.k.a. "a hard copy Site Development Permit." To obtain said authorization, the following, as applicable, must be submitted to the Planning and Development Department:
 - a. The completed notarized acknowledgment portion of the attached agenda memorandum. The owner/ developer is hereby notified that the effective date of this development approval shall be the date of the final County action; however, no activity shall commence on site until such time as the acknowledgment portion of this document is completed (including notarization) and received by the Planning and Development Department.
 - b. A copy of all required State and Federal permits from the appropriate agencies, including drawings, plans, etc.

No construction shall commence until the permit has been properly posted on the site.

Specific Conditions

2. The owner/developer acknowledges that the Shared Parking Agreement shall be recorded, including the location of spaces to be used and the WREC lighting plan. A copy of the recorded documents shall be submitted to the Planning and Development Department prior to the issuance of the Certificate of Occupancy.
3. The owner/developer acknowledges the cross-access to the abutting parcel to the south shall be paved to the property line.
4. The owner/developer acknowledges that should the wetland vegetation along the northern property line be removed, die-off or otherwise be destroyed, the owner/developer shall install the required 10-foot wide type A buffer with all required plantings.
5. The owner/developer acknowledges that should the wetland vegetation along the western property line abutting I-75 be removed, die-off or otherwise be destroyed, the owner/developer shall install the required 20-foot wide type F buffer with all required plantings.

General

6. The developer acknowledges that any provisions of Pasco County ordinances and any rezoning or preliminary plan conditions of approval not specifically waived shall be in full force and effect, including all impact fee ordinances. In the event ordinances/resolutions are adopted by the Board of County Commissioners (BCC) including, but not limited to, solid waste, public safety, or wildlife, the developer shall be required to comply with such ordinances/resolutions.
7. The developer acknowledges that no permit shall be issued or plat approved without the issuance of a Final Certificate of Capacity.
8. All construction work, including roads, drainage, and utilities, shall be constructed in accordance with County design standards and tested in compliance with the Engineering Services Department's Testing Specifications for Construction of Roads, Storm Drainage, and Utilities.
9. The applicant/developer or successors in interest are advised of the following restrictions:
 - a. No owner of the property within the development may construct or maintain any building, residence, or structure, or undertake or perform any activity in the wetlands, buffer areas, and upland conservation areas described in the approved plan or record plat unless prior approval is received from the Southwest Florida Water Management District (SWFWMD) pursuant to environmental resource permitting.
 - b. No owner of the property within the development may construct or maintain any building, residence, or structure, or undertake or perform any activity within the 100-year floodplain described in the approved plan and/or record plat of the subdivision unless prior approval is received from the SWFWMD pursuant to environmental resource permitting.
 - c. No owner of the property may undertake any roadway improvements within this development unless prior written authorization or notification of exemption is received from the SWFWMD pursuant to environmental resource permitting.
10. The applicant/developer shall acknowledge that should the County collect funds under a guarantee document, the developer shall authorize the County or its designee access to the property in question to complete the required work.
11. The applicant/developer shall acknowledge that should the County be required to institute legal proceedings in order to collect any funds under a guarantee document, the developer shall be responsible for attorney's fees and court costs incurred by the County in such action.
12. The developer acknowledges that an appeal may be filed against the decision of the Planning and Development Department within 30 days of the date of this approval. Any

development that takes place within the 30-day-appeal deadline shall not establish vested rights with respect to construction of the project.

13. Construction plans approved by the Planning and Development Department are the final approved documents. Changes/additions/deletions to approved site plans; i.e., building size, location, loading zones, etc., require revised site plan submittal, review fee, and approval in accordance with the LDC, Sections 300, 403, and 900.
14. The applicant/developer or project contractor shall notify the Project Management Division at least five working days prior to commencing any activity on the site.
15. In accordance with the LDC regarding Access Management Regulations, where a required/approved cross-access/frontage/reverse-frontage road is provided and shown on the approved plans, the applicant/developer acknowledges and agrees that this access shall be free and clear of any buildings, parking spaces (except as otherwise approved), landscaping, retention ponds, or any other obstruction (such as gates) that would prevent the free flow of traffic between the project and the neighboring properties, projects, or roadways. The applicant/developer acknowledges that this cross-access/frontage/reverse-frontage road is to remain open to the public, but maintained privately.
16. Where underground water mains and hydrants are to be provided, they shall be installed, completed, and in service prior to combustibles being brought on site (National Fire Protection Association, NFPA-1, 16.4.3.1.3).

Construction Plan

17. The developer shall provide fire protection in compliance with the Pasco County Code of Ordinances, Chapter 46, Article III, and any subsequent amendments.
18. Section 316.0745, Florida Statutes, requires that all traffic-control signing and markings on private property opened to the general public be in conformance with the Florida Department of Transportation's (FDOT) Manual on Uniform Traffic Control Devices and FDOT standards.
19. All handicapped parking spaces shall be signed and marked in accordance with the FDOT standards index. All regular/standard parking spaces shall be striped in white.
20. All construction within the County right-of-way will require a Right-of-Way Use Permit. The review and issuance of the Right-of-Way Use Permit shall be conducted in accordance with the LDC, Section 406.5, Right-of-Way Use Permit, and must be obtained prior to commencement of construction. The developer shall ensure that any improvements installed in rights-of-way are constructed to County standards.
21. In consideration of the County's agreement to provide potable water and/or reclaimed water to the subject property, the applicant/developer and their successors and assigns agree to the following:
 - a. In the event of production failure or shortfall by Tampa Bay Water (TBW), as set

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Attachment No. 1
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forth in Section 3.19 of the Interlocal Agreement creating TBW, the applicant/developer shall temporarily transfer to the County any and all water-use permits or water-use rights the applicant/developer may have to use or consume surface water or groundwater within the County for the duration of the production failure or shortfall.

- b. Prior to the applicant/developer selling water, water-use permits, or water-use rights, the applicant/developer shall notify the County, and the County shall have a right of first refusal to purchase such water or water-use permits or water-use rights.
22. Curb ramps are required at all intersections of curbs and sidewalks and shall be constructed in conformance with the uniform Federal Accessibility Standards published by the General Services Administration, Department of Housing and Urban Development, Department of Defense, and United States Postal Service (Section 336.045, Florida Statutes).
23. 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 County shall be notified within two-working days of the resources found on the site.
24. If, during construction activities, any evidence of the presence of State and Federally protected plant and/or animal species is discovered, work shall come to an immediate stop, and the County shall be notified within two-working days of the plant and/or animal species found on the site.
25. The Timing and Phasing Application submitted by the applicant assumed the following land use:

Ice Hockey Rink and restaurant

Any development of land use that generates greater traffic impacts than those assumed shall require an updated Timing and Phasing Application utilizing a methodology approved by the County. The DRC, BCC, or County Administrator or designee may impose additional conditions on the applicant or developer based on the updated County-approved traffic study.

26. Prior to any construction activity, the developer shall ensure that proper erosion and sediment control measures are in place. The applicant/developer or project contractor shall notify the Stormwater Management Division at least two working days prior to commencing any site preparation, including clearing and grubbing work, for a preinspection of the sediment and erosion-control devices. The developer shall control all fugitive dust originating from the project site and shall indicate on the construction drawings the manner in which fugitive dust is to be controlled. Further, all retention pond side slopes and associated swales shall be sodded to prevent soil erosion.

27. The applicant/developer acknowledges, in accordance with the LDC, Section 905.2, Landscaping and Buffering, any plant materials of whatsoever type and kind required by the Landscape and Buffering regulations and this approval, shall be replaced within thirty days of their demise and/or removal.
28. The applicant/developer acknowledges, in accordance with the LDC, Section 905.2, Landscaping and Buffering, wooden fences are not allowed as a visual screen in any of the buffer areas. If the applicant/developer proposes the use of a fence for a visual screen within any buffer area, vinyl fencing or chain-link fencing with black-out fabric or slats shall be used.

Development Standards

29. Skating Rink development shall be in accordance with Land Development Code, Section 526, C-2 General commercial District, as amended.

Building Permit/Certificate of Occupancy

30. Site plans submitted with Building Permit applications are invalid as to final site approval unless stamped approved by the Planning and Development Department. These plans are submitted to show building location in regard to property line, other buildings, etc., only. The site must conform to those plans submitted and/or approved by the Planning and Development Department in accordance with the LDC, Sections 300 and 403.
31. The applicant/developer acknowledges that a Building Permit shall be obtained for all structures that have a footer, regardless of size, through the Central Permitting Division; i.e., including, but not inclusive of, buildings, accessories, dumpster walls, and retaining walls.
32. A Registered Landscape Architect or other person as authorized by Chapter 481, Florida Statutes, as amended or other type of professional as approved by the County Administrator or designee shall conduct a final field inspection. A Certificate of Compliance shall be provided to the County prior to platting, or where platting is not required, prior to issuance of the Certificate of Occupancy (CO).
33. The owner/developer shall arrange for a final site inspection approval by the Engineering Services Department prior to the issuance of the CO.

DEVELOPER'S ACKNOWLEDGMENT:

The developer acknowledges that it has read, understood, and accepted the conditions of approval.

_____ Date

_____ Signature

_____ Print Name

_____ Title

STATE OF FLORIDA
COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ (date), by _____ (name of corporation acknowledging) a _____ (State or place of incorporation) corporation, on behalf of the corporation. He/she is personally known to me or who has produced _____ (type of identification) as identification.

Seal:

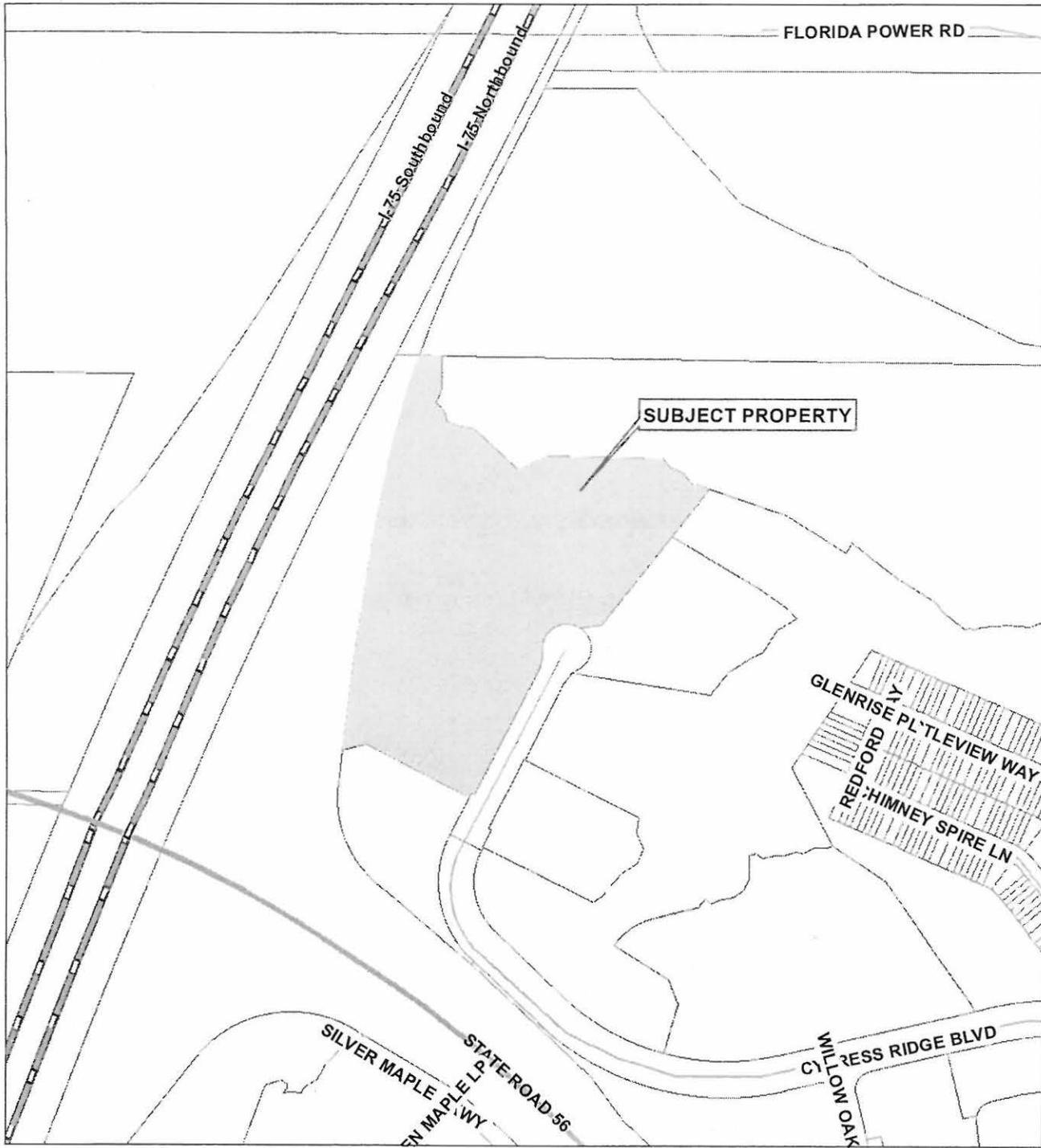
_____ NOTARY

PLANNING AND DEVELOPMENT DEPARTMENT ACTION:

APPROVED B.C.C.
 D.R.C.
 PDD

Pasco County
By: _____ Date 12-16-14
For Substantial Compliance With
The Applicable Provisions of Pasco County
Land Development Regulations
And Their Intent

(PDD15-286)
Attachment No. 1
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LRG14-013
Cypress Creek Ice Hockey

26 26 19 0000 00100 0220

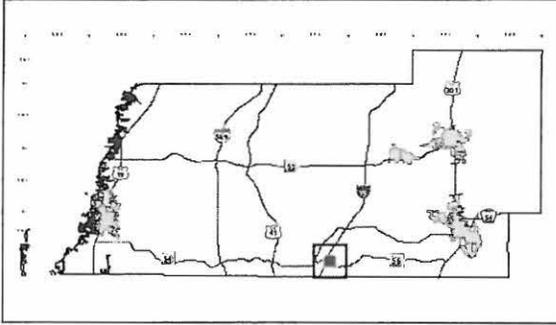
PHYSICAL ADDRESS:
3173 CYPRESS RIDGE BLVD

TAZ - 287
COMMISSION DISTRICT: 2

 **SUBJECT PROPERTY**



Pasco County GIS | 12/3/2014 | aikhuoria



ATTACHMENT NO. 4 - BACKGROUND AND FINDINGS OF FACT
Cypress Creek Ice Hockey

BACKGROUND:

1. On June 18, 2002, the Board of County Commissioners (BCC) approved the Cypress Creek Development of Regional Impact (DRI).
2. On August 20, 2002, the BCC approved the Cypress Creek MPUD Master Planned Unit Development (Petition No. 5787).
3. On January 23, 2003, the Development Review Committee (DRC) approved the Cypress Creek DRI, Phase 2, infrastructure preliminary/construction site plan (Memorandum No. DR03-520).
4. On October 21, 2003, the BCC approved, with conditions, an amendment to the Cypress Creek MPUD Master Planned Unit Development (Memorandum No. GM04-0015).
5. On October 7, 2004, the DRC denied the Cypress Creek DRI, Phase 4, and infrastructure preliminary/construction site plan (Memorandum No. DR04-2468).
6. On January 27, 2005, the DRC approved the Cypress Creek DRI, Phase 4 infrastructure preliminary/construction site plan (Memorandum No. DR05-704).
7. On December 1, 2005, the DRC approved the Cypress Creek DRI, Phase 3, drainage improvements, with conditions (Memorandum No. DR06-369).
8. On December 5, 2006, the BCC adopted Resolution No. 07-63, an amendment to the Development Order for the Cypress Creek DRI.
9. On December 20, 2007, the former Development Review Division approved the Cypress Creek, Parcel 11A, Phases 1A and 1B, preliminary/construction site plan and stormwater Management Plan and Report, with conditions (Memorandum No. DR08-417).
10. On November 25, 2008, the BCC adopted amendments to the County's concurrency-management regulations to extend, without additional concurrency review or analysis, the concurrency expiration date of all projects in Pasco County by one year (the one-year extension).
11. On May 12, 2009, the BCC adopted Resolution No. 09-205, an amendment to the Development Order for the Cypress Creek DRI.
12. On March 18, 2014, the Planning and Development Department approved, with conditions, a nonsubstantial amendment to the Cypress Creek MPUD, to add "skating rink" as a use to Parcel 1 (Memorandum No. PDD14-618).
13. On June 11, 2014, the Planning and Development Department approved the Preliminary Site Plan (Memorandum No. PDD14-861) for Cypress Creek Ice Hockey Rink (Project No. LRG14-013) for 147,700 square foot ice rink and 2,800 square foot restaurant.

FINDINGS OF FACT:

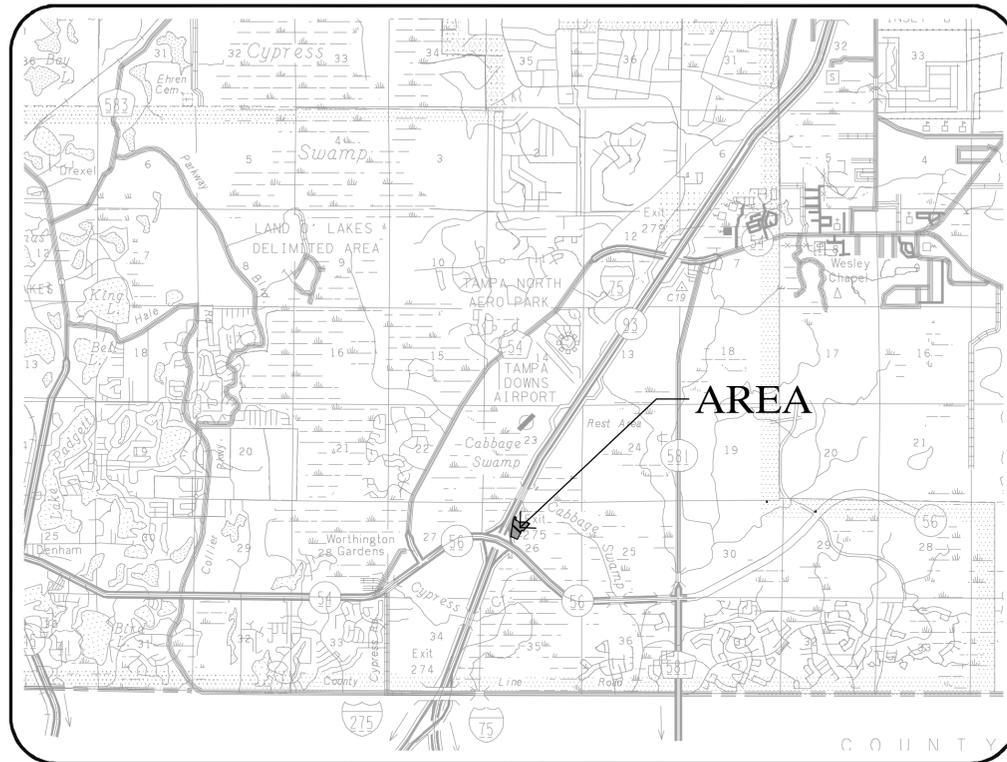
1. Presently, the subject site is an unimproved. The site is a portion of Parcel 1 from the MPUD master plan and Parcels 2 and 3 from Map H of the Cypress Creek DRI No. 244.
2. The construction plan/stormwater management plan and report has been reviewed by the Planning and Development Department, and it has been determined that the proposed use is consistent with the above-referenced zoning district's permitted uses and with the Pasco County applicable provisions of the Comprehensive Plan, as submitted.
3. The construction plan/stormwater management plan and report for the above-subject project was prepared for Z Mitch LLC by King Engineering and consists of 32 sheets dated March 4, 2014; the sheets were last revised on November 20, 2014. The plans were originally received by the Planning and Development Department on July 10, 2014, and final revisions were received on December 9, 2014.
4. A Timing and Phasing Application was submitted and found to be exempt from the requirement to provide a Timing and Phasing Analysis and a Substandard Roadway Analysis.

The Planning and Development Department approval of this construction plan/stormwater management plan and report constitutes a finding by the Planning and Development Department that the construction plan/stormwater management plan and report, as conditioned, is consistent with those Goals, Objectives, and Policies of the Comprehensive Plan and those provisions of the LDC that are applicable to construction plan/stormwater management plan and report approvals. This action is based on the office review of the plans, supporting documentation, and certifications of the Engineer of Record.

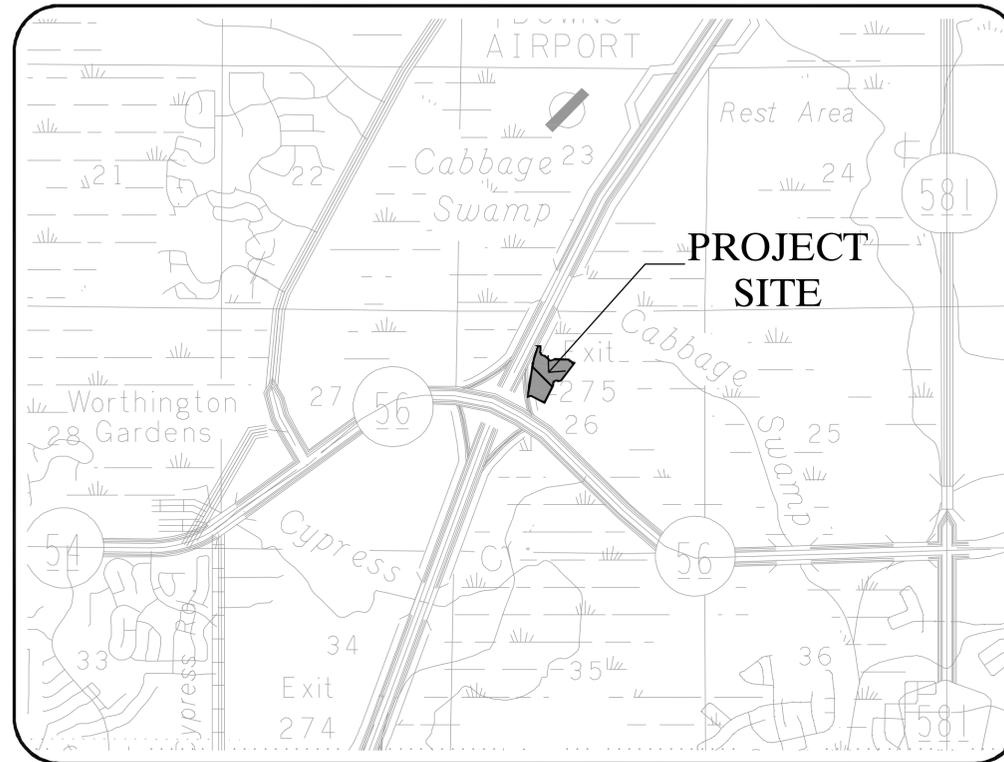
CYPRESS CREEK ICE HOCKEY MASTER STORMWATER & CONSTRUCTION SITE PLANS

SECTION 26, TOWNSHIP 26 S, RANGE 19 E
PASCO COUNTY, FLORIDA

PARCEL ID#s
26-26-19-0000-00100-0220



LOCATION MAP



VICINITY MAP

FOR: CYPRESS CREEK ICE HOCKEY

ZMITCH, LLC
4939 NEW PROVIDENCE AVE.
TAMPA, FL 33629

BY:

King
ENGINEERING ASSOCIATES, INC.
4921 Memorial Highway
One Memorial Center, Suite 300
Tampa, Florida 33634
Phone 813 880-8881
Fax 813 880-8882
www.kingengineering.com
Engineering License #2610

PDD APPROVED
12/16/14 (PDD15-286)
DEM

SWFMD SUBMITTAL UTILITY SUBMITTAL COUNTY/CITY SUBMITTAL	DRAWINGS INDEX	
	SHEET NUMBER	SHEET TITLE
**	C1.01	COVER SHEET
**	C1.02	NOTES AND LEGENDS
**	C1.03	NOTES AND LEGENDS
**	C1.50	OVERALL SITE PLAN
**	C1.51	EASEMENT PLAN
*	C2.00	CONSTRUCTION POLLUTION PREVENTION PLAN
**	C2.01	DEMOLITION AND SITE PREPARATION PLAN
**	C2.02	DEMOLITION AND SITE PREPARATION PLAN
**	C2.03	DEMOLITION AND SITE PREPARATION PLAN
*	C3.01	SIGNING, PAVEMENT MARKING AND DIMENSIONING PLAN
*	C3.02	SIGNING, PAVEMENT MARKING AND DIMENSIONING PLAN
*	C3.03	SIGNING, PAVEMENT MARKING AND DIMENSIONING PLAN
**	C4.01	PAVING, GRADING AND DRAINAGE PLAN
**	C4.02	PAVING, GRADING AND DRAINAGE PLAN
*	C4.03	PAVING, GRADING AND DRAINAGE PLAN
**	C5.01	SANITARY SEWER AND WATER DISTRIBUTION PLAN
**	C5.02	SANITARY SEWER AND WATER DISTRIBUTION PLAN
**	C5.03	SANITARY SEWER AND WATER DISTRIBUTION PLAN
*	C7.01	TYPICAL SECTIONS AND DETAILS
*	C8.01	EROSION CONTROL DETAILS
*	C9.01	GRADING DETAILS
*	C9.02	GRADING DETAILS
*	C10.01	STORM SEWER DETAILS
*	C10.02	STORM SEWER DETAILS
**	C11.01	WATER DISTRIBUTION DETAILS
**	C11.02	WATER DISTRIBUTION DETAILS
**	C12.01	SANITARY SEWER DETAILS
**	L1.01	CODE LANDSCAPE PLAN
**	L1.02	CODE LANDSCAPE PLAN
**	L1.03	CODE LANDSCAPE PLAN
*	IR1.01	CODE IRRIGATION PLAN
*	IR1.02	CODE IRRIGATION PLAN
*	IR1.03	CODE IRRIGATION PLAN

Permit Type	Permit No.	Status
PASCO COUNTY	LRG14-013	RESUBMITTED OCTOBER 16, 2014
PASCO COUNTY PSP	LRG14-013	ISSUED JUNE 11, 2014
PASCO COUNTY (FDEP WATER)	XXXXXXXXXXXXXX	SUBMITTED OCTOBER 22, 2014
PASCO COUNTY (FDEP WASTEWATER)	XXXXXXXXXXXXXX	SUBMITTED OCTOBER 22, 2014
S.W.F.W.M.D.	APPLICATION #699195	RESUBMITTED OCTOBER 16, 2014
A.C.O.E	SAJ-2014-00710 (NPR-TEH)	NO PERMIT REQUIRED JULY 30, 2014
NPDES NOI	FLR100G49	ISSUED JULY 28, 2014

DRAINAGE NOTE
THE DRAINAGE PLAN HAS BEEN DESIGNED BASED UPON EXISTING FIELD CONDITIONS AND CONFORMS TO THE CONDITIONS OF THE CONCEPTUAL PERMIT FOR THE CYPRESS CREEK DRI.

NO.	DATE	DESCRIPTION	APPD BY	JOB NO. 4947-000-000	SHEET NO. C1.01
				DATE MARCH 4, 2014	
				SCALE AS SHOWN	
				PASCO COUNTY RESUBMITTAL DECEMBER 1, 2014	

Q:\CIVIL\4947\000\Production\Drawings\COVER.dwg . December 1, 2014 3:32 PM . King Engineering Associate Inc.
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 CONTENT IS RELEASED UNDER THE PROVISIONS OF THE FLORIDA PUBLIC RECORDS ACT.

GENERAL NOTES

- ELEVATIONS SHOWN HEREON ARE BASED ON T.B.M. #4 AS SHOWN ON SAID TOPOGRAPHIC SURVEY PREPARED BY CROSSTOWN SURVEYORS, INC. HAVING AN ELEVATION OF 52.42' (NAVD 88).
- ALL AREAS WITHIN THE LIMITS OF THE PROPOSED PLAN ARE ZONE "X" & "AE" AS NOTED ON F.E.M.A. FIRM COMMUNITY PANEL 12101C 0409F, DATED SEPT. 26, 2014.
- THE DEVELOPER AND/OR HIS DESIGNATED PROPERTY OWNERS ASSOCIATION SHALL OWN AND MAINTAIN ALL COMMON AREAS, DRAINAGE EASEMENTS, JURISDICTIONAL AREAS, PARKS, ETC.
- POTABLE WATER & SANITARY SEWAGE DISPOSAL SERVICE WILL BE PROVIDED BY PASCO COUNTY FROM EXISTING MAINS, ADJACENT TO THE SITE.
- TELEPHONE SERVICE WILL BE PROVIDED BY VERIZON (OR BRIGHT HOUSE).
- PROPOSED DRAINAGE AND UTILITY EASEMENTS WILL BE SHOWN ON THE CONSTRUCTION PLANS. DETENTION AREAS WILL BE WITHIN DEDICATED DRAINAGE EASEMENTS. WETLANDS WILL BE WITHIN DEDICATED WETLAND CONSERVATION/DRAINAGE EASEMENTS AND WILL BE GRANTED BY SEPARATE INSTRUMENTS, AS REQUIRED.
- DRAINAGE RUNOFF (POST DESIGN) WILL BE COLLECTED AND DIRECTED VIA PIPES AND SWALES.
- ALL WATER AND WASTEWATER FACILITIES ARE TO BE INSTALLED IN COMPLIANCE WITH THE PASCO COUNTY "STANDARD FOR DESIGN AND CONSTRUCTION OF WATER, WASTEWATER, RECLAIMED WATER FACILITIES FOR PASCO COUNTY, 2006 EDITION."
- THE CONTRACTOR SHALL NOT ENTER UPON OR IN ANY WAY ALTER ANY WETLAND AREAS, EXCEPT AS AUTHORIZED BY THE APPROPRIATE ENVIRONMENTAL PERMIT. ALL WORK IN THE VICINITY OF OPEN WATER OR WETLANDS IS TO BE IN COMPLIANCE WITH ANY AND ALL PERMITS.
- THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS ACCEPTED BY THE OWNER OR HIS AUTHORIZED REPRESENTATIVE.
- BURN AREAS, IF REQUIRED, WILL BE OBTAINED FROM THE DIVISION OF FORESTRY BY THE CONTRACTOR.
- DEVELOPMENT SHALL COMPLY WITH THE TREE AND LANDSCAPE CODES AS SET FORTH IN THE LAND DEVELOPMENT CODE UNLESS PERMITTED OTHERWISE.
- ALL CONSTRUCTION MUST BE IN ACCORDANCE WITH THE "MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION, AND MAINTENANCE FOR STREETS AND HIGHWAYS, STATE OF FLORIDA, 2011 EDITION."
- SIDEWALK CROSSINGS TO PROVIDE STRIPING AND SIGNAGE PER FOOT INDEX NUMBERS 17346 AND 17355 (2010 VERSION). THE DETECTABLE WARNING STRIPS SHALL BE ALIGNED TO THE DIRECTION OF PEDESTRIAN TRAVEL. SIDEWALKS ARE TO BE PROVIDED AS REQUIRED WITHIN THE LAND DEVELOPMENT CODE. SIDEWALKS SHALL BE 4" THICK WITH A MINIMUM 3000 PSI CONCRETE STRENGTH (28 DAY). AT DRIVEWAY CROSSINGS, THE THICKNESS SHALL BE 6" (MIN.). ABOVE BUILDINGS, EXPOSED AGGREGATE MAY BE USED IN LIEU OF DETECTABLE WARNING MATS PER PASCO COUNTY SITE ENGINEERING INSPECTION.

BELOW IS A LIST OF SUPPLIERS OF THE PROJECT UTILITIES:

<p>WATER: PASCO COUNTY UTILITIES DEPARTMENT WEST PASCO COUNTY GOVERNMENT 7536 STATE STREET SUITE 228 NEW PORT RICHEY, FLORIDA 34654</p> <p>SEWER: PASCO COUNTY UTILITIES DEPARTMENT WEST PASCO COUNTY GOVERNMENT 7536 STATE STREET SUITE 228 NEW PORT RICHEY, FLORIDA 34654</p> <p>TELEPHONE: VERIZON FLORIDA, INC. 1909 N US HIGHWAY 301 TAMPA, FLORIDA 33619</p>	<p>FIRE DEPT.: PASCO COUNTY EMERGENCY SERVICES 4111 LAND O' LAKES BOULEVARD LAND O' LAKES, FLORIDA 34639</p> <p>ELECTRICAL: WITHLACOOCHIEE RIVER ELECTRIC CO-OP ONE PASCO CENTER DISTRICT PO BOX 1278 SAN ANTONIO, FLORIDA 33576</p> <p>CABLE: BRIGHTHOUSE 30432 SR 54 WESLEY CHAPEL, FLORIDA 33543</p>
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- GRASS OR OTHER LOW-GROWING VEGETATION THAT IS EASILY MAINTAINED SHALL BE USED IN CLEAR ZONES.
- PROJECT OWNER/DEVELOPER: ZMITCH, LLC
4939 NEW PROVIDENCE AVE.
TAMPA, FLORIDA 33629
(813) 286-0089
- PROJECT SURVEYOR: KING ENGINEERING ASSOCIATES, INC.
4921 MEMORIAL HIGHWAY, ONE MEMORIAL CENTER, SUITE 300
TAMPA, FLORIDA 33634
(813) 880-8881
- PROJECT ENGINEER: KING ENGINEERING ASSOCIATES, INC.
4921 MEMORIAL HIGHWAY, ONE MEMORIAL CENTER, SUITE 300
TAMPA, FLORIDA 33634
(813) 880-8881
- UTILITY LINES OF ALL KINDS, INCLUDING, BUT NOT LIMITED TO, ELECTRIC POWER AND LIGHT, TELEPHONE AND TELEGRAPH, CABLE TELEVISION, WATER, SEWER, AND GAS SHALL BE CONSTRUCTED AND INSTALLED BENEATH THE SURFACE OF THE GROUND.
- 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 FOUNDATIONS ARE DISCOVERED, WORK SHALL COME TO AN IMMEDIATE STOP, AND PASCO COUNTY AND THE FLORIDA DIVISION OF HISTORICAL RESOURCES (STATE HISTORIC PRESERVATION OFFICER) SHALL BE NOTIFIED WITHIN TWO WORKING DAYS.
- IF DURING CONSTRUCTION ACTIVITIES ANY EVIDENCE OF THE PRESENCE OF STATE AND FEDERALLY PROTECTED PLANT AND/OR ANIMAL SPECIES ARE DISCOVERED, WORK SHALL COME TO AN IMMEDIATE STOP AND PASCO COUNTY SHALL BE NOTIFIED WITHIN TWO WORKING DAYS OF THE PLANT AND/OR ANIMAL SPECIES FOUND ON THE SITE.
- DEVELOPER TO OBTAIN TEMPORARY CONSTRUCTION EASEMENTS FOR ALL WORK WITHIN ADJACENT PROPERTIES PRIOR TO INITIATION OF SITE CONSTRUCTION ACTIVITIES. PERMANENT EASEMENTS SHALL BE RECORDED WITH THE SUBDIVISION PLAN OR BY THE CONTRACTOR VIA SEPARATE INSTRUMENT.
- PLACEMENT OF FENCING/WALLS/MONUMENT SIGNAGE AND UTILITY SLEEVING TO BE FIELD COORDINATED BY THE CONTRACTOR WITH RESPECTIVE UTILITIES.
- PRIOR TO CONSTRUCTION, A BUILDING PERMIT SHALL BE OBTAINED BY THE CONTRACTOR FOR ALL STRUCTURES THAT HAVE A FOOTER, REGARDLESS OF SIZE, THROUGH PASCO COUNTY CENTRAL PERMITTING (I.E. INCLUDING BUT NOT EXCLUSIVE OF BUILDINGS, ACCESSORIES AND RETAINING WALLS).
- SITE PREPARATION AND EARTHWORK SHALL FOLLOW GEOLOGICAL ENGINEERING REPORT RECOMMENDATIONS.
- SITE TRIANGLES SHALL BE UNOBSTRUCTED AND SHALL BE INSPECTED AND MAINTAINED IN CONFORMANCE WITH FOOT INDEX 546.
- SOIL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED PRIOR TO CONSTRUCTION, MAINTAINED THROUGHOUT CONSTRUCTION AND UNTIL THE SITE IS PERMANENTLY STABILIZED (LDC 902.3).
- IT IS THE OWNER'S RESPONSIBILITY TO INSPECT AND MAINTAIN THE STORMWATER RETENTION SYSTEM ON A REGULAR BASIS.
- ALL DEMOLITION DEBRIS SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF (LDC 400).
- THERE ARE NO KNOWN HISTORIC RESOURCES ON SITE.
- PROPOSED TREES THAT ARE PLANTED SHALL BE SELECTED FROM THE PASCO COUNTY APPROVED TREE LIST TO SATISFY REQUIREMENTS. ALL NEWLY CONSTRUCTED POND BANKS SHALL BE SODED TO 2 FEET BELOW NORMAL LEVEL (NWL).
- THE CONTRACTOR IS TO EXERCISE EXTREME CAUTION IN THE VICINITY OF EXISTING TREES TO REMAIN AND IS RESPONSIBLE FOR ANY DAMAGE RESULTING FROM HIS WORK.
- POND T.O.B. LINE INDICATES TOP OF BANK; I.E., THE POINT AT WHICH THE SLOPE BEGINS.
- WHEN PROPOSED STORM AND/OR SANITARY SEWER IS TO BE CONNECTED TO EXISTING STRUCTURES, THE CONTRACTOR WILL FIELD VERIFY THE TIE-IN INVERT ELEVATION PRIOR TO THE INSTALLATION OF THE LINE AND NOTIFY THE ENGINEER OF ANY DEVIATION FROM THESE PLANS.
- LOADING AREAS AND TRASH COLLECTION AND COMPACTION AREAS SHALL BE SCREENED BY A MASONRY WALL A MINIMUM OF SIX (6) FEET IN HEIGHT.
- THERE SHALL BE NO LIGHT SPILLAGE OR GLARE BEYOND THE PROJECT SITE.
- MAINTENANCE EASEMENTS MUST CONTAIN CLEAR OPERABLE ACCESSIBILITY.
- CANOPES, BALCONIES, ETC. SHALL HAVE A MINIMUM OF 13'-6" CLEARANCE. LOADING AREA SHALL HAVE A 14' MINIMUM VERTICAL CLEARANCE.
- UPON COMPLETION OF THE LAND DEVELOPMENT CONSTRUCTION, A PROFESSIONAL ENGINEER SHALL PROVIDE A CERTIFICATION TO PASCO COUNTY THAT THE PROJECT, INCLUDING EACH PAD AREA, COMPLIES WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL/GEOLOGICAL ENGINEERING REPORT.
- ALL TREES OVERHANGING INTO THE PUBLIC RIGHT-OF-WAY OR THE TREES WITHIN THE RIGHT-OF-WAY SHALL BE TRIMMED AND PRUNED TO MAINTAIN A MINIMUM VERTICAL CLEAR HEIGHT OF 8' FROM THE FINISHED GROUND SURFACE OF THE SIDEWALK TO THE BOTTOM OF THE CANOPY.
- CONTRACTOR TO VERIFY EQUIPMENT PAD SIZES WITH EQUIPMENT TO BE PROVIDED.
- LANDSCAPING, IRRIGATION AND STORMWATER MAINTENANCE IS THE RESPONSIBILITY OF THE DEVELOPER.
- TECHNICAL SPECIFICATION REFERENCES:
 - FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2013 EDITION) WITH THE EXCEPTION OF DIVISION I.
 - PASCO COUNTY STANDARDS FOR DESIGN AND CONSTRUCTION OF WATER, WASTEWATER AND RECLAIMED WATER FACILITIES (LATEST EDITION)
 - PASCO COUNTY ENGINEERS SERVICES DEPARTMENT TESTING SPECIFICATIONS FOR CONSTRUCTION OF ROADS, STORM DRAINAGE AND UTILITIES (LATEST EDITION)
 - PASCO COUNTY LAND DEVELOPMENT CODE CHAPTER 300 SECTION 309 CONSTRUCTION AND INSPECTION IMPROVEMENTS AND CHAPTER 900 SECTION 902 STORMWATER MANAGEMENT REQUIREMENTS, PART D PERFORMANCE AND DESIGN STANDARDS
- IF PREHISTORIC OR HISTORIC ARTIFACTS, SUCH AS POTTERY OR CERAMICS, PROJECTILE POINTS, DUGOUT CANOES, METAL IMPLEMENTS, HISTORIC BUILDING MATERIALS OR ANY OTHER PHYSICAL REMAINS THAT COULD BE ASSOCIATED WITH NATIVE AMERICAN, EARLY EUROPEAN, OR AMERICAN SETTLEMENT ARE ENCOUNTERED AT ANY TIME WITHIN THE PROJECT SITE AREA, THE PERMITTED PROJECT SHALL CEASE ALL ACTIVITIES INVOLVING SUBSURFACE DISTURBANCE IN THE IMMEDIATE VICINITY OF THE DISCOVERY. THE APPLICANT SHALL CONTACT THE FLORIDA DEPARTMENT OF STATE, DIVISION OF HISTORICAL RESOURCES, COMPLIANCE REVIEW SECTION AT (850) 245-6333. PROJECT ACTIVITIES SHALL NOT RESUME WITHOUT VERBAL AND/OR WRITTEN AUTHORIZATION. IN THE EVENT THAT UNMARKED HUMAN REMAINS ARE ENCOUNTERED DURING PERMITTED ACTIVITIES, ALL WORK SHALL STOP IMMEDIATELY AND THE PROPER AUTHORITIES NOTIFIED IN ACCORDANCE WITH SECTION 872.05, FLORIDA STATUTES.

EROSION AND SEDIMENTATION CONTROL NOTES

- PROVIDE ALL DISTURBED AREAS WITHIN THE LIMITS OF THE WORK WITH TEMPORARY SOIL EROSION CONTROL AND SEDIMENT CONTROL, UTILIZING EARTH DAMS & PONDS, GRADE TO DRAIN SWALES, SETTLING BASINS, SILT FENCES, STONE FILTERS, SYNTHETIC BAILE FILTERS, ETC., TREATING ALL SOIL SURFACES WITH SEEDED TOPSOIL AND / OR MULCH AFTER GRADING.
- ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
- CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION, AIR AND WATER POLLUTION WILL BE MINIMIZED. STATE AND LOCAL LAWS SHALL BE COMPLIED WITH AT ALL TIMES.
- MINIMIZE THE AMOUNT OF BARE SOIL EXPOSED AT ONE TIME AND INSTALL SOIL EROSION CONTROL FENCES AS SHOWN AND IN SUCH A MANNER AS TO CAPTURE AND FILTER SURFACE WATER DURING CONSTRUCTION.
- PERMANENT VEGETATION SHALL BE BY SEEDING OR SODDING ALL EXPOSED AREAS WITHIN THREE DAYS AFTER FINAL GRADING. MULCH SHALL BE USED AS NECESSARY FOR PROTECTION UNTIL 75% GROWTH IS ESTABLISHED.
- AT THE TIME WHEN THE SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL WHICH WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER SHALL BE REMOVED OR TREATED IN SUCH A WAY AS TO PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER.
- ALL NEW EROSION AND SILT CONTROL METHODS AND LOCATIONS INDICATED ON THIS DRAWING ARE FOR START-UP AND GENERAL REFERENCE AND SHALL BE ADJUSTED, AS REQUIRED, TO SUIT THE PROCESS OF THE CONSTRUCTION. WHEN CHANGING SOIL EROSION CONTROL BARRIER, THE BARRIERS ARE TO BE OVERLAP.
- ALL DISTURBED AREAS WITHIN THE LIMITS OF CONSTRUCTION SHALL RECEIVE VEGETATIVE TREATMENT AFTER FINAL GRADING IN ACCORDANCE WITH THESE PLANS. DISTURBED AREAS NOT SPECIFICALLY DESIGNATED WITH A VEGETATIVE COVER SHALL BE VEGETATED AS FOLLOWS:
 - SIDE SLOPES CONSTRUCTED AT 4:1 (H TO V) SHALL BE SODED WITH ARGENTINE BAHIA OR, SEEDED AND THEN COVERED WITH AN EROSION CONTROL BLANKET. THE BLANKET SHALL BE THE ST58N BLANKET AS MANUFACTURED BY NORTH AMERICA GREEN OR APPROVED EQUIVALENT. SIDE SLOPES LESS THAN 5:1 (H TO V) SHALL BE SEEDED AND MULCHED, UNLESS OTHERWISE SHOW ON PLANS.
- SYNTHETIC BALES SHALL BE PLACED ON THE UPLAND SIDE AND ADJACENT TO ALL SILT FENCE WHICH IS ADJACENT TO WETLAND AREAS TO PROVIDE ADDED SILTATION PROTECTION OF THE COMMENCEMENT OF CONSTRUCTION. THE HAY BALES SHALL BE REMOVED AT SUCH TIME AS THEIR PRESENCE IMPEDS CONSTRUCTION.
- ALL PRACTICABLE AND NECESSARY EFFORT, INCLUDING BUT NOT LIMITED TO THE USE OF STAKED HAY BALES OR STAKED SILT SCREEN BARRIERS, SHALL BE TAKEN DURING CONSTRUCTION TO CONTROL AND PREVENT EROSION AND TRANSPORT OF SEDIMENT MATERIALS TO INLETS, SURFACE DRAINS, WETLANDS AND LAKE AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RESTORATION EFFORTS THAT MAY BE REQUIRED.
- PRIOR TO START OF CLEARING AND GRUBBING OR ANY SOIL DISTURBANCE, CONTRACTOR MUST CONTACT PASCO COUNTY STORMWATER MANAGEMENT (727-834-3611) FOR A SOIL EROSION AND SEDIMENT CONTROL PRE-INSPECTION MEETING.

PASCO COUNTY SANITARY SEWER & WATER DISTRIBUTION NOTES

- NEW OR RELOCATED, UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT WILL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER, STORM SEWER, OR STORMWATER FORCE MAIN REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.; A HORIZONTAL DISTANCE OF AT LEAST SIX FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY-TYPE SANITARY SEWER (OR A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY-TYPE SANITARY SEWER IF THE BOTTOM OF THE WATER MAIN WILL BE LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER); A HORIZONTAL DISTANCE OF AT LEAST SIX FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, OR WASTEWATER FORCE MAIN NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.; AND A HORIZONTAL DISTANCE OF AT LEAST TEN FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM." [FAC 62-555.314(1); EXCEPTIONS ALLOWED UNDER FAC 62-555.314(5)]
- NEW OR RELOCATED, UNDERGROUND WATER MAINS THAT ARE INCLUDED IN THIS PROJECT AND THAT WILL CROSS ANY EXISTING OR PROPOSED GRAVITY- OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER WILL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES ABOVE THE OTHER PIPELINE OR AT LEAST 12 INCHES BELOW THE OTHER PIPELINE; AND NEW OR RELOCATED, UNDERGROUND WATER MAINS THAT ARE INCLUDED IN THIS PROJECT AND THAT WILL CROSS ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN WILL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OTHER PIPELINE. [FAC 62-555.314(2); EXCEPTIONS ALLOWED UNDER FAC 62-555.314(5)]
- AT THE UTILITY CROSSINGS DESCRIBED IN NOTE #1 ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE WILL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. THE PIPES WILL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS OR STORMWATER FORCE MAINS REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY- OR PRESSURE-TYPE SANITARY SEWERS OR WASTEWATER FORCE MAINS NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. [FAC62-555.314(2); EXCEPTIONS ALLOWED UNDER FAC 62-555.314(5)]
- ALL SEWER AND WATER SERVICE LATERALS ARE TO BE MARKED WITH PAINT ON THE EDGE OF PAVEMENT AND WITH WOOD STAKES AT THE END OF SERVICE LATERALS (BLUE PAINT FOR WATER, GREEN PAINT FOR SEWER).
- CONFLICTS OF WATER LINES WITH SANITARY SEWER AND STORM SEWER SYSTEMS TO BE RESOLVED BY ADJUSTING WATER LINES AS NECESSARY.
- WATER LINES ARE TO HAVE A MINIMUM OF 36-INCHES OF COVER FROM PROPOSED GRADE.
- APPROXIMATE WATER LINE DISTANCES ARE SHOWN BETWEEN CENTERS OF MAIN FITTINGS. THE CONTRACTOR SHALL PROVIDE ALL FITTINGS REQUIRED FOR COMPLETE SYSTEMS IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICE.
- THE LOCATION OF EXISTING UTILITIES ARE APPROXIMATE AS SHOWN AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF THE UTILITIES PRIOR TO CONSTRUCTION IN THEIR VICINITY.
- THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES IN THE AREA BEFORE BEGINNING CONSTRUCTION.
- ALL UNDERGROUND UTILITIES MUST BE INSTALLED BEFORE SUB-BASE, BASE & SURFACE ARE CONSTRUCTED.
- SPECIAL CARE IS TO BE TAKEN SO TREES THAT ARE TO REMAIN ARE UNHARMED DURING CONSTRUCTION.
- ALL WATER MAINS ARE TO BE PVC OR AS NOTED ON PLANS.
 - PIPE SIZES FROM 2" TO 3" SHALL CONFORM TO ASTM DESIGNATION D-1784 AND D-2241, CLASS 1120 OR 1220 (SDR 21).
 - PIPE SIZES FROM 4" TO 12" SHALL CONFORM TO AWWA C-900 SPECIFICATIONS (DR-18).
- SANITARY PIPE MATERIAL SHALL BE AS FOLLOWS:
 - SDR 35 FOR PIPES 3'-12" DEEP
 - SDR 26 FOR PIPES 12'-18" DEEP
 - CS90 FOR PIPES GREATER THAN 18" DEEP WITH FERRO ADAPTERS.
- SANITARY SEWER PIPE MEASUREMENTS ARE TO THE CENTER OF MANHOLES.
- WATER MAINS WILL NOT BE INSTALLED PRIOR TO INSTALLATION OF THE SANITARY AND STORM SEWER SYSTEMS UNLESS WATER MAIN IS TO BE BELOW UTILITIES OR STORM SEWER AS SHOWN ON PLANS.
 - WATER MAIN: ALL INSTALLED UNDERGROUND WATER MAINS SHALL BE MARKED WITH A CONTINUOUS TAPE LOCATED DIRECTLY OVER THE PIPE 12 INCHES TO 18 INCHES BELOW GRADE. SAID TAPE SHALL BE A MINIMUM OF TWO INCHES IN WIDTH AND SHALL BE METALLIC-BACKED, BLUE, AND MARKED "WATER MAIN BURIED BELOW."
- CONNECTIONS INTO EXISTING COUNTY-OWNED SYSTEMS SHALL BE VIA WET TAP. WET TAPS SHALL BE PERFORMED BY THE PASCO COUNTY UTILITIES SERVICES BRANCH AT THE OWNER'S EXPENSE. EXCAVATION, BACKFILL, AND SURFACE RESTORATION SHALL BE THE CONTRACTOR'S RESPONSIBILITY. MATERIAL FOR WET TAPS LARGER THAN 2" SHALL BE PROVIDED AND INSTALLED BY THE PROJECT CONTRACTOR.
- WATER MAIN DEFLECTIONS SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATION.
- TYPICAL-ALL WATER AND SANITARY SEWER PIPE LINES-CONSTRUCT USING PIPE DEFLECTION METHOD AS REQUIRED BY P.C.U.D.
- ALL UTILITY SYSTEM DESIGN MATERIALS AND WORKMANSHIP SHALL COMPLY WITH "STANDARDS FOR DESIGN AND CONSTRUCTION OF WATER, WASTEWATER AND RECLAIMED WATER FACILITIES SPECIFICATIONS," LATEST EDITION.
- CONTRACTOR SHALL HAVE ALL FIRE HYDRANTS FLOW-TESTED AND COLOR-CODED BASED ON FLOW RESULTS.
- IN CONSIDERATION OF PASCO COUNTY'S AGREEMENT TO PROVIDE POTABLE WATER AND/OR RECLAIMED WATER TO THE SUBJECT PROPERTY, DEVELOPER, CONTRACTOR, AND ITS SUCCESSORS, AGREE, AS FOLLOWS:
 - IN THE EVENT OF PRODUCTION FAILURE OR SHORTFALL AT 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 GROUNDWATER WITHIN PASCO COUNTY.
 - PRIOR TO 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 RIGHT.
- CONTRACTOR'S RESPONSIBILITIES:
 - 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 A 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 OR 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.

PAVING, GRADING AND DRAINAGE NOTES

- ALL NOTES APPLY TO ALL PAVING, GRADING AND DRAINAGE PLAN SHEETS.
- THE LOCATION OF EXISTING UTILITIES ARE APPROXIMATE AS SHOWN AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF THE UTILITIES PRIOR TO CONSTRUCTION IN THEIR VICINITY.
- CONTRACTOR TO NOTIFY ONE CALL OF FLORIDA, WRCC, AND ANY OTHER UTILITY COMPANIES NOT REPRESENTED BY ONE CALL OF FLORIDA 48 HOURS PRIOR TO CONSTRUCTION FOR LOCATION OF EXISTING UTILITIES. CALL ONE CALL OF FLORIDA AT 1-800-432-4770.
- ALL UNDERGROUND UTILITIES MUST BE INSTALLED BEFORE SUB-BASE, BASE AND SURFACE ARE CONSTRUCTED.
- ALL PRACTICAL AND NECESSARY EFFORT SHALL BE TAKEN DURING CONSTRUCTION TO CONTROL AND PREVENT EROSION AND TRANSPORT OF SEDIMENT TO SURFACE DRAINS.
- SPECIAL CARE IS TO BE TAKEN TO INSURE THAT TREES OUTSIDE CLEARING LIMITS FOR ROADWAY, UTILITIES, DRAINAGE, ETC., REMAIN UNHARMED.
- CONFLICTS BETWEEN WATER, STORM LINES AND STRUCTURES ARE TO BE RESOLVED BY ADJUSTING WATER LINES AS NECESSARY.
- ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH PASCO COUNTY STANDARDS AS REQUIRED. REMOVAL OF ANY ORGANIC MATERIALS SHALL BE PER FOOT INDEX 500.
- PIPE MEASUREMENTS ARE TO CENTER OF STRUCTURES FOR INLETS AND STORM MANHOLES, AND TO THE END OF STRUCTURES FOR END STRUCTURES (FES OR MES). CURB INLET STATIONS ARE CALCULATED TO EDGE OF PAVEMENT, ALL PIPE LENGTHS ARE PLUS OR MINUS.
- PROPOSED DRAINAGE AND UTILITY EASEMENTS WILL BE GRANTED WHEN RECORDED AT THE COMPLETION OF CONSTRUCTION.
- ALL PROPOSED ROADWAY CONSTRUCTION AND TRAFFIC CONTROL DEVICES ARE PREPARED IN ACCORDANCE WITH THE VERSION OF THE "MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS", STATE OF FLORIDA AND THE PASCO COUNTY LAND DEVELOPMENT CODE IN EFFECT AT THE TIME THE PLANS WERE PREPARED.
- THE STAKED EROSION CONTROL WILL BE INSTALLED PRIOR TO EARTHWORK OPERATIONS COMMENCING AND IS TO BE MAINTAINED THROUGH PROJECT COMPLETION.
- ALL DISTURBED AREAS TO BE LANDSCAPED AND/OR SODED. ALL SWALES SHALL BE SODED AS SHOWN ON THE SECTIONS.
- STORM SEWER PIPE LINES WILL NOT BE INSTALLED PRIOR TO PLACEMENT AND ALIGNMENT OF INLET STRUCTURES.
- IN ACCORDANCE WITH SECTION 603.2.C.8 OF THE PASCO COUNTY LAND DEVELOPMENT CODE, DRAINAGE AREAS THAT ABUT ROAD RIGHT-OF-WAYS SHALL BE PLANTED WITH TREES SELECTED FROM THE TREE LIST AT A RATE OF (1) ONE TREE PER (50) FIFTY LINEAR FEET OF POND BANK. SEE LANDSCAPE PLANS.
- MAINTAIN A MIN. OF 0.3% SLOPE IN ALL GUTTERS (INCLUDING GUTTERS IN "WARPED" ROAD SECTIONS).
- NO EXCAVATION SHALL EXTEND BELOW THE PERMITTED DESIGN DEPTHS/ELEVATIONS 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. ENVIRONMENTAL PROTECTION COMMISSION MUST BE CONTACTED PRIOR TO ANY EXCAVATION OF CLAYS.
- ALL REINFORCED CONCRETE PIPE (ROP) SHALL BE CLASS III, UNLESS IDENTIFIED DIFFERENTLY ON PLANS.
- ALL RADII ARE 5' UNLESS OTHERWISE INDICATED.
- IF 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 SWFWM APPROVE RESUMING CONSTRUCTION ACTIVITIES. TAKE IMMEDIATE MEASURES TO ENSURE NO SURFACE WATER DRAINS INTO THE AFFECTED AREAS. VISUALLY INSPECT THE AFFECTED AREA. EXCAVATE AND BACKFILL OR GROUT AS REQUIRED TO FILL THE AFFECTED AREA AND PREVENT FURTHER SUBSIDENCE. USE SOIL REINFORCEMENT MATERIALS IN THE BACKFILLING OPERATION, WHEN APPROPRIATE.
- 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 LIMEROCK OR KARST CONNECTION.
- 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.
- DISCHARGE OF STORMWATER INTO DEPRESSIONS WITH DIRECT OR DEMONSTRATED HYDROLOGIC CONNECTION TO THE FLORIDIAN AQUIFER SHALL BE PROHIBITED.
- ALL SODED SLOPES OVER 4 TO 1 SHALL BE INSTALLED WITH SOD PEGS. BANKS OF WET RETENTION AREAS SHALL BE SODED TO TWO FEET BELOW THE NWL.
- ANY OFF SITE DISTURBANCE SHALL BE RESTORED TO THE PRE OR BETTER CONDITIONS (PER LDC 902.2.D.15-16).
- ALTERNATE STORM PIPE MATERIALS MEETING FDOT INDEX NO. 205 MAY BE SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL FOR USE IN THE STORMWATER PIPE SYSTEM.
- AS APPLICABLE, THE OWNER/DEVELOPER WILL PROVIDE COPIES OF THE REQUIRED PERMITS FROM THE RESPECTIVE GOVERNING AGENCIES, PRIOR TO ISSUANCE OF THE SITE DEVELOPMENT PERMIT (SDP) (PER LDC 902.2.C.1).
- CONTRACTOR TO PROVIDE DEWATERING PLAN.
- CONTRACTOR SHALL COMPLY TO THE FOLLOWING EARTHWORK SPECIFICATIONS:
 - EARTHWORK TESTING STANDARDS - EMBANKMENTS SHALL BE COMPACTED TO FIELD DENSITY -- (AASHTO T-191 OR T-238) 100% OF AASHTO T-99, METHOD "A".
 - LIFT DEPTH - FILLS SHALL BE FORMED OF SUITABLE MATERIAL PLACED IN LAYERS OF NOT MORE THAN 8 INCHES IN DEPTH MEASURED LOOSE AND ROLLED AND/OR VIBRATED WITH SUITABLE EQUIPMENT UNTIL COMPACTED. THICKNESS OF LAYERS MAY BE INCREASED PROVIDED THE EQUIPMENT AND METHODS USED ARE PROVEN BY FIELD DENSITY TESTING TO BE CAPABLE OF COMPACTING THICKER LAYERS TO SPECIFIED DENSITIES. LAYER THICKNESS SHALL BE DECREASED IF EQUIPMENT AND METHODS USED ARE PROVEN TO BE INCAPABLE OF COMPACTING LAYERS TO SPECIFIED DENSITIES.
- PRIOR TO THE START OF THE CLEARING AND GRUBBING, OR ANY SOIL DISTURBANCE, THE CONTRACTOR SHALL CONTACT PASCO COUNTY STORMWATER MANAGEMENT AT 727-834-3611 FOR A SOIL EROSION AND SEDIMENT CONTROL PRE INSPECTION MEETING.
- SIDEWALKS TO BE INSTALLED BY THE CONTRACTOR AS PART OF CONSTRUCTION ACTIVITIES IN AREAS WHERE LOTS DO NOT ABUT ROADWAY, PERMANENT CURB RAMP SHALL BE PROVIDED AT CROSSWALKS IN ACCORDANCE WITH FDOT INDEX NO. 304.
- THE INTERNAL TO EXTERNAL SIDEWALK CONNECTION IS TO BE COMPLIANT WITH THE 2012 FLORIDA ACCESSIBILITY CODE.
- CONTRACTOR TO REMOVE & GROUT LIFT HOOKS ON ALL STRUCTURES PRIOR TO FINAL SITE INSPECTION.
- MAINTENANCE EASEMENTS MUST CONTAIN CLEAR OPERABLE ACCESSIBILITY.
- A CONTROL SURVEY IS REQUIRED TO BE OBTAINED BY THE CONTRACTOR. CONTACT DAVE GREER (KING ENGINEERING) AT 813-880-8881 2 WEEKS PRIOR TO SITE CONSTRUCTION.
- ALL MANHOLE COVERS TO BE ADJUSTED TO FINAL GRADE ELEVATIONS AND STRUCTURE INVERTS POURED PRIOR TO FINAL INSPECTION.
- ALL DEMOLITION DEBRIS SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF PER PASCO COUNTY LDC 400.
- ALL FIRST FLOOR ELEVATIONS (FFE) SHALL BE A MINIMUM OF ONE (1) FOOT ABOVE BASE FLOOD ELEVATION OR AS REQUIRED BY PASCO COUNTY LDC 110.14. 16 INCHES ABOVE THE HIGHEST CROWN LINE OF THE STREET LYING BETWEEN THE PROJECTION OF THE SIDE BUILDING LINES (LDC 902.2M).
- THE DEVELOPER SHALL PROVIDE COPIES OF REQUIRED PERMITS FROM THE RESPECTIVE GOVERNING AGENCIES, PRIOR TO ISSUANCE OF THE SITE DEVELOPMENT PERMIT (LDC 902.2.C).
- THE SITE SHALL BE GRADED TO WITHIN 12 INCHES OF THE FINAL GRADE. WHERE FILL IS PROPOSED, IT SHALL BE PLACED IN COMPLIANCE WITH THE GEOTECHNICAL/GEOLOGICAL ENGINEERING REPORT RECOMMENDATIONS (INCLUDING ANY LIFT DEPTHS RECOMMENDED) AND COMPACTED TO A MINIMUM OF 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY. DENSITY TESTS TO CONFIRM COMPACTION SHALL BE REQUIRED WITHIN THE BUILDING PAD AREA, BEFORE THE NEXT LIFT IS PLACED. UPON COMPLETION OF THE LAND DEVELOPMENT CONSTRUCTION, A PROFESSIONAL ENGINEER SHALL PROVIDE A CERTIFICATION TO PASCO COUNTY THAT THE PROJECT, INCLUDING EACH PAD AREA, COMPLIES WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL/GEOLOGICAL ENGINEERING REPORT. (LDC 807.5.5)
- THE BUILDING PAD(S) SHALL BE GRADED BELOW THE FINISHED FLOOR ELEVATIONS (FFE) SHOWN ON THE PAVING, GRADING AND DRAINAGE PLANS. REFER TO STRUCTURAL PLANS FOR FOUNDATION DEPTHS.
- COMPACTION FOR THE BUILDING PAD(S) (PERFORMED IN ACCORDANCE WITH PROJECT SPECIFICATIONS) SHALL EXTEND TO INCLUDE AN AREA 15 FEET BEYOND THE PAD, INCLUDING OF THE LOADING RAMPS AND ANY OTHER BUILDING PROJECTIONS.
- STORM SEWER PIPE SHALL BE CONNECTED TO STRUCTURES WITH AN A-LOC OR BY GROUTING THE PIPE WITH FILTER FABRIC WRAP PER "FILTER FABRIC WRAP ON GROUTED PIPE TO STRUCTURE JOINTS" PER FDOT INDEX 201.

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CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS AND NOT BE LIABLE FOR ANY DELAYS OR COSTS INCURRED WITHOUT WRITTEN PERMISSION FROM THE ENGINEER OF RECORD. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS AND NOT BE LIABLE FOR ANY DELAYS OR COSTS INCURRED WITHOUT WRITTEN PERMISSION FROM THE ENGINEER OF RECORD.

DESIGNED	NLL
DRAWN	DEU
CHECKED	NLL/AGK
DATE	LFK

THE SIGNATURE OF THE QUALITY CONTROL OFFICER IN THIS SPACE INDICATES THAT ALL REQUIRED PERMITS HAVE BEEN OBTAINED AND THAT CONSTRUCTION IS AUTHORIZED TO COMMENCE.

King
ENGINEERING ASSOCIATES, INC.

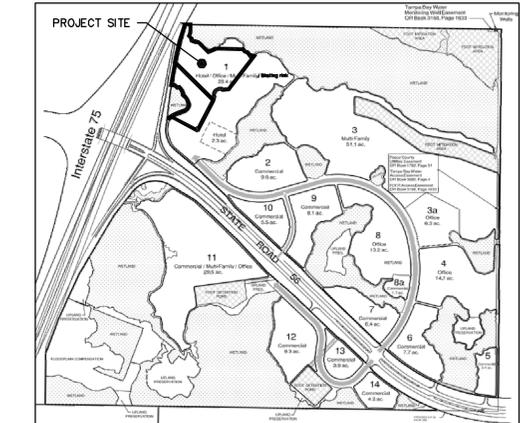
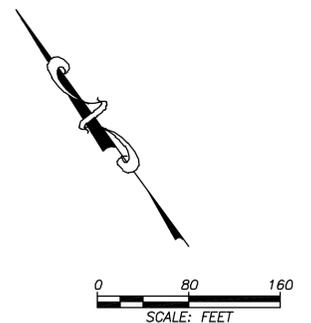
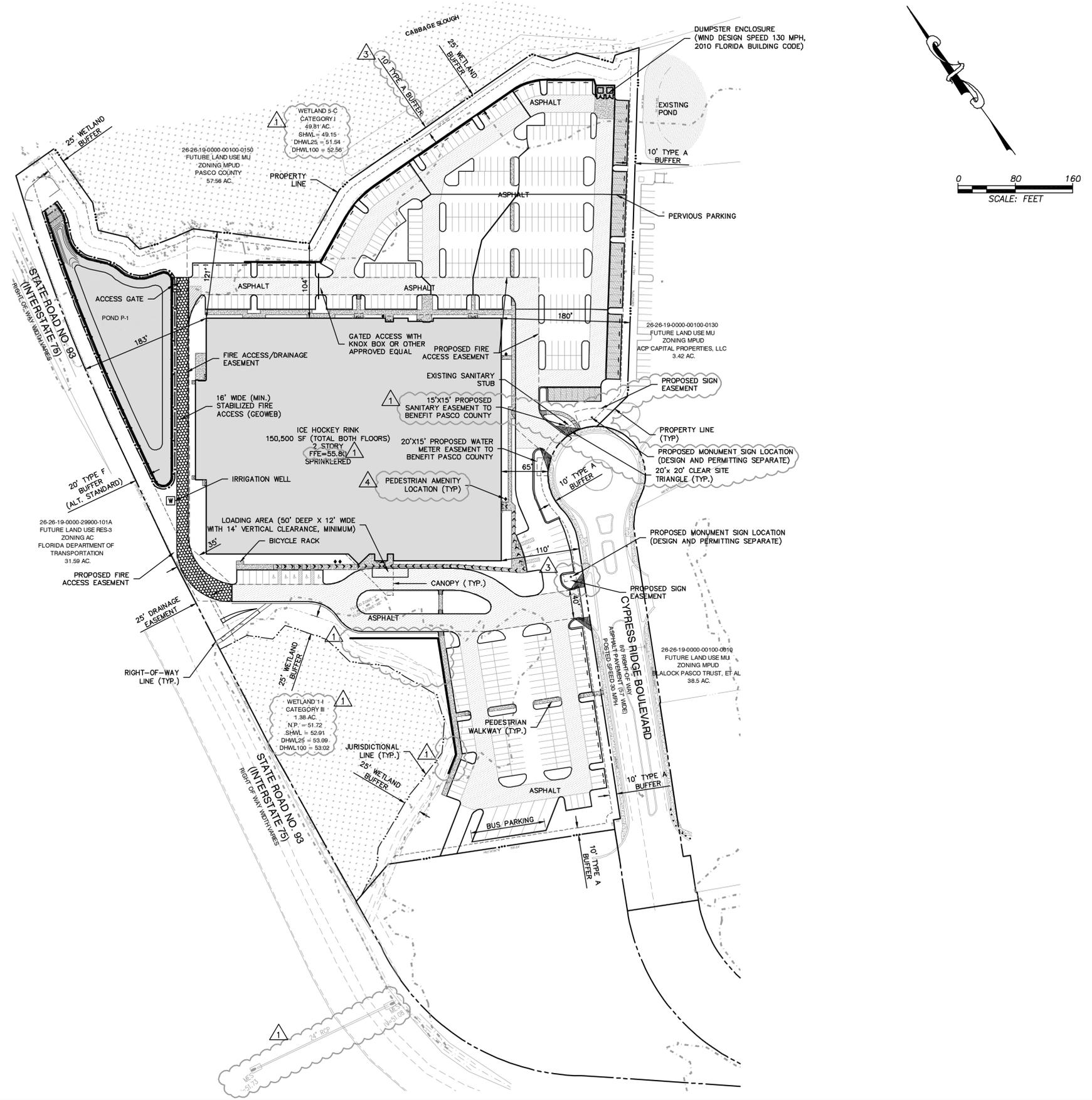
4921 Memorial Highway
One Memorial Center, Suite 300
Tampa, Florida 33634
Phone 813 880-8881
Fax 813 880-8882
www.kingengineering.com
Engineering License #2610

CYPRESS CREEK ICE HOCKEY
FOR
ZMITCH, LLC
4939 NEW PROVIDENCE AVE.
TAMPA, FL 33629

NOTES AND LEGENDS

NO.	DATE	DESCRIPTION	APP'D BY
3.	11/20/2014	QC REVIEW & GEOTECHNICAL RECOMMENDATIONS FOR FIRE LINE AND PERVIOUS PAVEMENT	NLL
2.	11/04/2014	UPDATED PER GEOTECHNICAL RECOMMENDATIONS	NLL
1.	10/16/2014	PASCO COUNTY & SWFWM COMMENTS	NLL
NO.	DATE	DESCRIPTION	APP'D BY

JOB NO.	4947-000-000
DATE	2/6/2014
SCALE	AS SHOWN
PASCO COUNTY RESUBMITTAL	
DECEMBER 1, 2014	



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DESIGNED	NULL
DRAWN	DEU
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DATE	LFK

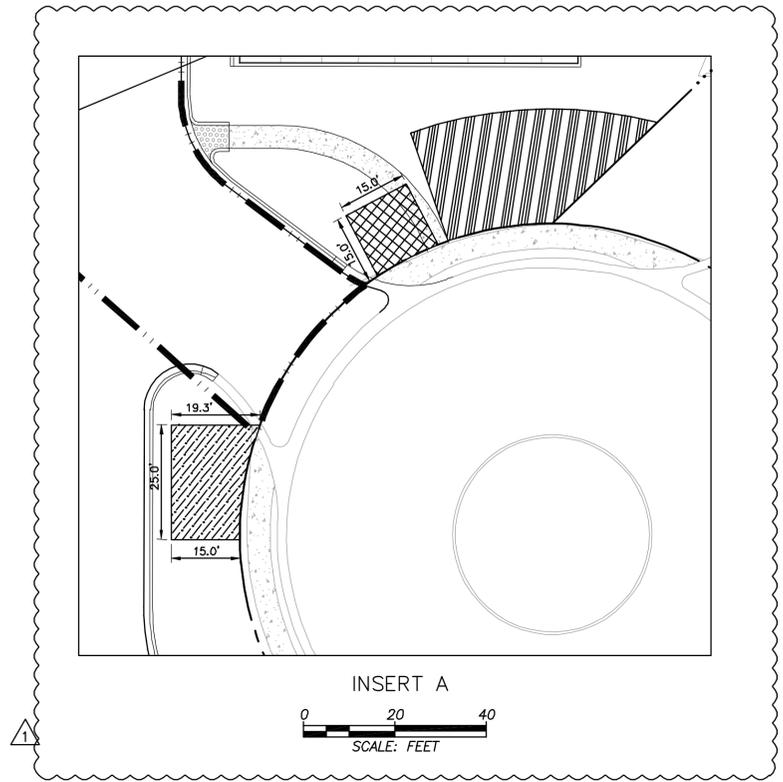
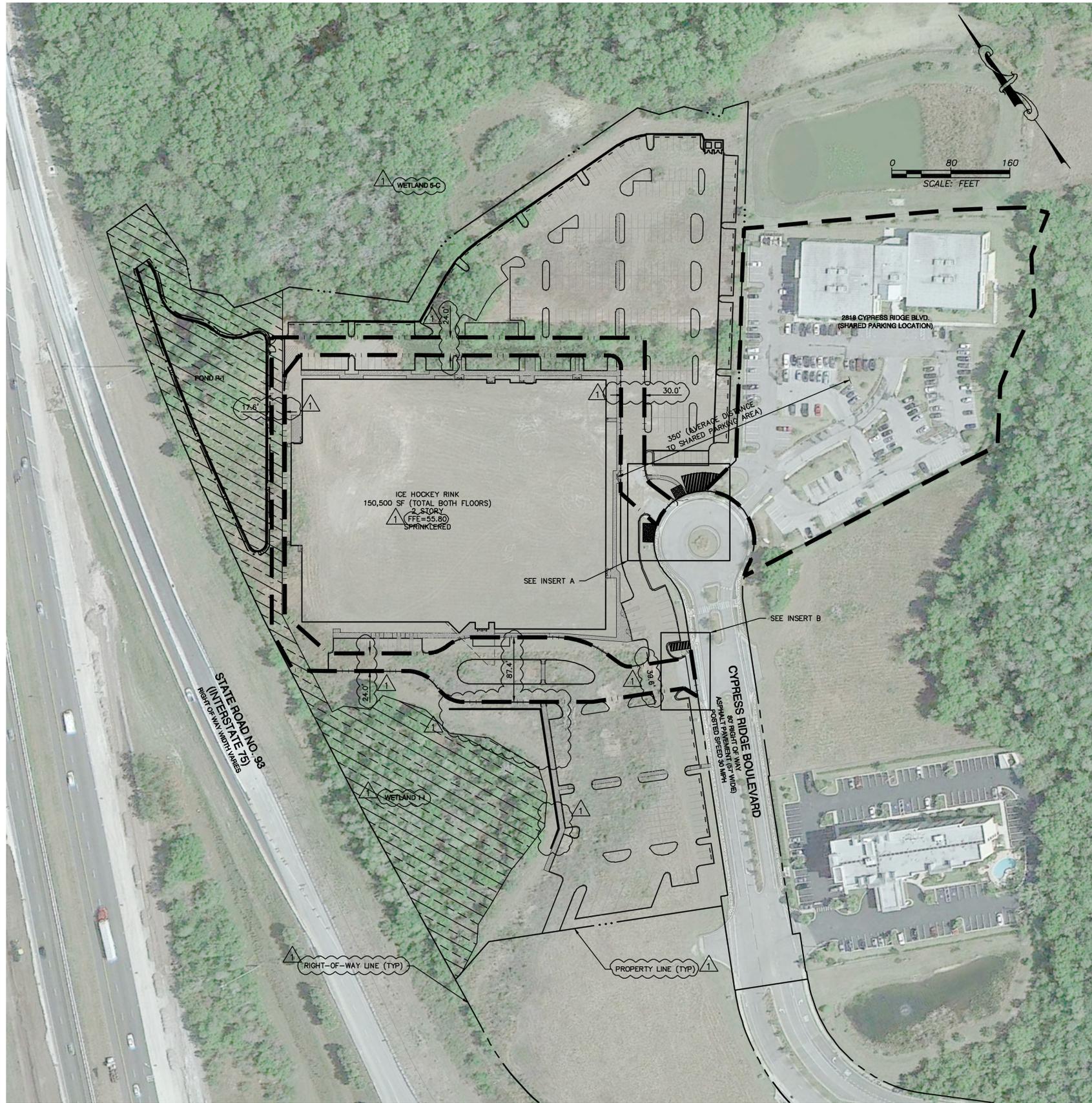
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CYPRESS CREEK ICE HOCKEY
 FOR
ZMITCH, LLC
 4939 NEW PROVIDENCE AVE.
 TAMPA, FL 33629

OVERALL SITE PLAN

NO.	DATE	DESCRIPTION	APP'D BY
4.	12/5/2014	PASCO COUNTY COMMENTS	NULL
3.	11/20/2014	QC REVIEW & GEOTECHNICAL RECOMMENDATIONS FOR FIRE LANE AND PERVIOUS PAVEMENT	NULL
2.	11/04/2014	UPDATED PER GEOTECHNICAL RECOMMENDATIONS	NULL
1.	10/16/2014	PASCO COUNTY & SWFWMD COMMENTS	NULL

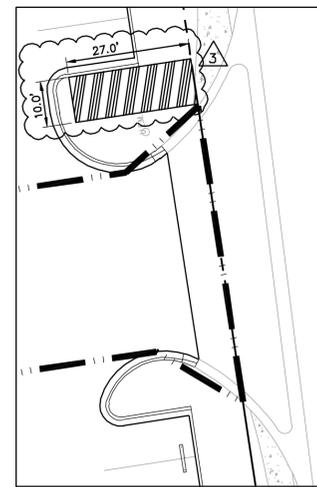
JOB NO.	4947-000-000	SHEET NO.	C1.50
DATE	2/6/2014	SCALE	AS SHOWN
PASCO COUNTY RESUBMITTAL DECEMBER 1, 2014			



LEGEND

	DRAINAGE EASEMENT
	WATER METER EASEMENT (TO BENEFIT PASCO COUNTY)
	SIGN EASEMENT
	SANITARY EASEMENT (TO BENEFIT PASCO COUNTY)
	FIRE ACCESS EASEMENT
	SHARED PARKING AGREEMENT

NOTE: LIGHTING & SIGNAGE PLANS SHALL BE SUBMITTED BY DEVELOPER AND/OR CONTRACTOR UNDER A SEPARATE COVER TO PASCO COUNTY FOR REVIEW AND APPROVAL IN ACCORDANCE WITH PASCO COUNTY & CYPRESS CREEK REQUIREMENTS.



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DESIGNED	NULL
DRAWN	DEU
CHECKED	NULL/AGK
D.C.	LFK

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CYPRESS CREEK ICE HOCKEY
 FOR
ZMITCH, LLC
 4939 NEW PROVIDENCE AVE.
 TAMPA, FL 33629

EASEMENT PLAN

NO.	DATE	DESCRIPTION	APP'D BY
3.	11/20/2014	QC REVIEW & GEOTECHNICAL RECOMMENDATIONS FOR FIRE LANE AND PERVIOUS PAVEMENT	NULL
2.	11/04/2014	UPDATED PER GEOTECHNICAL RECOMMENDATIONS	NULL
1.	10/16/2014	PASCO COUNTY & SWFWMD COMMENTS	NULL

JOB NO.	4947-000-000	SHEET NO.	C1.51
DATE	2/6/2014	SCALE	AS SHOWN
PASCO COUNTY RESUBMITTAL DECEMBER 1, 2014			

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SITE DESCRIPTION	
PROJECT NAME: CYPRESS CREEK ICE HOCKEY LAT. = 28° 11' 43" LONG. = 82° 22' 50"	PERMITTEE'S NAME: ZMITCH, LLC PERMITTEE'S ADDRESS: 4939 NEW PROVIDENCE AVENUE TAMPA, FL 33629
DESCRIPTION OF NATURE OF CONSTRUCTION ACTIVITY CONSTRUCTION OF A ICE HOCKEY RINK, ASSOCIATED PARKING LOTS AND STORMWATER MANAGEMENT FACILITIES. AREA = 13.89 ACRES	
SEQUENCE OF MAJOR ACTIVITIES: 1. PRIOR TO THE COMMENCEMENT OF CLEARING, GRUBBING, AND DEMOLITION, THE SITE CONTRACTOR SHALL INSTALL ALL EROSION CONTROL DEVICES CALLED FOR ON THE PLANS. 2. UPON INSTALLATION OF THE EROSION CONTROL DEVICES, THE SITE CONTRACTOR MAY BEGIN SITE CLEARING, DEMOLITION, EARTHWORK, DRAINAGE, UTILITY AND ROADWAY CONSTRUCTION ACTIVITIES WITHIN THE CONSTRUCTION LIMITS. THE SITE CONTRACTOR SHALL STABILIZE ALL AREAS DISTURBED WITHIN FIVE DAYS OF THE COMPLETION OF GRADING ACTIVITIES OF THE DISTURBED AREA. 3. THE SITE CONTRACTOR SHALL MAINTAIN THE EXISTING STORMWATER SYSTEM UNTIL THE PROPOSED SYSTEM HAS BEEN RE-ROUTED, ONCE THE PROPOSED SYSTEM IS IN PLACE, THE CONTRACTOR MAY BEGIN THE REMOVAL OF THE EXISTING STORMWATER PIPES AS INDICATED ON THE CONSTRUCTION DOCUMENTS. 4. THE SITE CONTRACTOR SHALL REMOVE ALL EROSION PROTECTION DEVICES WITHIN EACH CONTRIBUTING AREA FOLLOWING PERMANENT STABILIZATION OF ALL DISTURBED AREAS.	
NAME OF RECEIVING WATERS: CYPRESS CREEK	
CONTROLS EROSION AND SEDIMENT CONTROLS	
STABILIZATION PRACTICES	
WIND EROSION STABILIZATION: THE CONTRACTOR SHALL DENUDE ONLY AREAS WHERE IT IS EXPECTED TO BE GRADED OR ALTERED WITHIN A TWO (2) WEEK TIME-FRAME. FINAL GRADES SHALL BE PERFORMED AND TEMPORARY OR PERMANENT SOIL STABILIZATION SHALL BE APPLIED. AREAS WHERE CONSTRUCTION OPERATIONS WILL BE CONTINUOUS, FUGITIVE DUST SHALL BE MANAGED BY APPLYING A WATER SPRAY TO SATURATE THE SURFACE SOILS ON A DAILY BASIS, OR AS NEEDED TO MAINTAIN MINIMAL DUST TRANSPORT. FUGITIVE DUST SHALL BE MONITORED CONTINUOUSLY AND ADDITIONAL MEASURES MAY NEED TO BE TAKEN TO CONTROL OFF-SITE TRANSPORT OF UNACCEPTABLE LEVELS OF DUST. TEMPORARY STABILIZATION: TOP OF SOIL STOCK PILES AND DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR AT LEAST 21 DAYS WILL BE STABILIZED WITH TEMPORARY GRASS AND MULCH NO LATER THAN 5 DAYS FROM THE LAST CONSTRUCTION ACTIVITY. GRASS SEED SHALL BE A MIXTURE OF 20 PARTS OF BERMUDA SEED AND 80 PARTS OF PENSACOLA BAHIA. THE SEPARATE TYPES OF SEED USED SHALL BE THOROUGHLY DRY MIXED IMMEDIATELY BEFORE SOWING. SEED WHICH HAS BECOME WET SHALL NOT BE USED. THE MULCH MATERIAL USED SHALL NORMALLY BE DRY MULCH. DRY MULCH SHALL BE STRAW OR HAY, CONSISTING OF OAT, RYE OR WHEAT STRAW, OR OF PANGOLA, PEANUT, COASTAL BERMUDA OR BAHIA GRASS HAY. ONLY UNDETERIORATED MULCH WHICH CAN BE READILY CUT INTO THE SOIL SHALL BE USED. AREAS OF THE SITE WHICH ARE TO BE PAVED WILL BE TEMPORARILY STABILIZED BY APPLYING STABILIZATION AND BASE. PERMANENT STABILIZATION: DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES PERMANENTLY CEASES SHALL BE STABILIZED WITH SOD NO LATER THAN 5 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY.	
STRUCTURAL PRACTICES	
STAKED SILT FENCES: THE STAKED SILT FENCES WILL BE CONSTRUCTED ALONG THE PERIMETER AS PREVIOUSLY EXPLAINED. THESE DEVICES WILL STOP AND DIVERT RUNOFF TO THE SEDIMENT BASINS. SEDIMENT BASINS: THE STORM WATER MANAGEMENT AREAS WILL ACT AS SEDIMENT BASINS DURING CONSTRUCTION. THE SEDIMENT BASINS WILL BE CONSTRUCTED TO THE DESIGN CROSS-SECTION, OR A MINIMUM OF 2' BELOW EXISTING GROUND AT THE CONTRACTORS DISCRETION TO ALLOW SILTS TO BE COLLECTED AND REMOVED PRIOR TO COMPLETION OF THE GRADING.	
STORM WATER MANAGEMENT	
STORM WATER DRAINAGE WILL BE PROVIDED BY A CURB, SWALE, STORM SEWER, OR CATCH BASIN SYSTEM FOR THE DEVELOPED AREAS. SWALES TO BE SODDED AND INCLUDE CHECK DAMS AND RIPRAP TO CONTROL RUNOFF VELOCITY AND TRANSPORT OF SEDIMENT. WHEN CONSTRUCTION IS COMPLETE THE IMPROVED PORTION OF THE SITE WILL DRAIN TO STORM WATER PONDS. THE PONDS WILL BE IN THE LOCATION OF THE TEMPORARY SEDIMENT BASINS. WHEN UPSLOPE AREAS ARE STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT BASINS. THE PONDS HAVE BEEN DESIGNED BY A PROFESSIONAL ENGINEER TO LIMIT PEAK FLOW RATES FROM THE DESIGN STORM EVENT AT OR BELOW PRE-DEVELOPMENT RATES, AND CONSTRUCTION PER DETAILS SHOWN IN THE PLANS IS IMPERATIVE.	
OTHER CONTROLS WASTE DISPOSAL	
WASTE MATERIALS: ALL WASTE MATERIAL WILL BE COLLECTED AND STORED IN DUMPSTERS PER LOCAL AGENCIES REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTERS. THE DUMPSTERS WILL BE EMPTIED A MINIMUM OF ONCE A WEEK OR MORE OFTEN IF NECESSARY, AND THE TRASH WILL BE HAULED TO A REGISTERED LANDFILL FOR DISPOSAL. NO CONSTRUCTION MATERIALS WILL BE BURIED ON-SITE. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED IN THE ON-SITE OFFICE TRAILER AND THE CONSTRUCTION MANGER RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED. HAZARDOUS WASTE: ALL HAZARDOUS WASTE MATERIALS, IF ENCOUNTERED, WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATIONS. THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED. SANITARY WASTE: ALL SANITARY WASTE WILL BE COLLECTED FROM PORTABLE UNITS A MINIMUM OF THREE TIMES PER WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR, AS REQUIRED BY LOCAL REGULATION.	
OFFSITE VEHICLE TRACKING	
STABILIZED CONSTRUCTION ENTRANCES SHALL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREETS WILL BE CLEANED AS NEEDED TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM OR TO THE SITE WILL BE COVERED WITH A TARP/AULIN AT ALL TIMES.	

TIMING OF CONTROL MEASURES		
AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, STAKED SILT BARRIERS, STABILIZED CONSTRUCTION ENTRANCES AND SEDIMENT BASINS WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN 21 DAYS WILL BE STABILIZED WITH A TEMPORARY GRASS AND MULCH WITHIN 5 DAYS OF THE LAST DISTURBANCE. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN THAT AREA, THAT AREA WILL BE STABILIZED WITH PERMANENT SOD. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE TRAPS AND THE STAKED SILT BARRIERS WILL BE REMOVED.		
CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS		
THE STORM WATER POLLUTION PREVENTION PLAN REFLECTS THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT'S (SWFWM) REQUIREMENTS FOR STORM WATER MANAGEMENT AND EROSION AND SEDIMENT CONTROL, AS ESTABLISHED BY THE FLORIDA ADMINISTRATIVE CODE, CHAPTER 40D-4 AND 40D-40. TO ENSURE COMPLIANCE, THIS PLAN WAS PREPARED IN ACCORDANCE WITH SWFWM'S "BASIS OF REVIEW FOR SURFACE WATER MANAGEMENT PERMIT APPLICATIONS WITHIN THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT." THIS PLAN ALSO REFLECTS THE REQUIREMENTS OF THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION FOR WORK IN BRANCH 6.		
MAINTENANCE INSPECTION PROCEDURES EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES		
THESE ARE THE INSPECTION AND MAINTENANCE PRACTICES THAT SHALL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROL. ALL CONTROL MEASURES IN DISTURBED AREAS WILL BE INSPECTED AT LEAST ONCE EACH WEEK AND WITHIN 24 HOURS OF THE END OF ANY STORM EVENT OF 0.25 INCHES OR GREATER BY A CONTRACTORS REPRESENTATIVE. (WHERE SITES HAVE BEEN FINALLY STABILIZED SUCH INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH.) ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT. BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE. SILT FENCE WILL BE INSPECTED REGULARLY FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS; AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND. THE SEDIMENT BASINS WILL BE INSPECTED FOR DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB. TEMPORARY AND PERMANENT GRASSING, MULCHING AND SODDING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH. A MAINTENANCE INSPECTION REPORT SHALL BE MADE AFTER EACH INSPECTION BY THE CONTRACTOR AND SHALL BE KEPT IN AN ACTIVE LOG READILY AVAILABLE AT THE JOB SITE CONSTRUCTION TRAILER. THE SITE SUPERINTENDENT WILL SELECT INDIVIDUALS WHO WILL BE RESPONSIBLE FOR MAINTENANCE AND REPAIR ACTIVITIES. FILLING OUT THE INSPECTION AND MAINTENANCE REPORT WILL BE BY THE CONTRACTOR. PERSONNEL SELECTED FOR MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT. THEY WILL BE TRAINED IN ALL MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ON-SITE IN GOOD WORKING ORDER.		
NON-STORM WATER DISCHARGES		
IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD: WATER FROM FIRE FIGHTING ACTIVITIES, FIRE HYDRANT FLUSHING, WATER LINE FLUSHING, WATER USED TO SPRAY OFF LOOSE SOILS FROM VEHICLES, DUST CONTROL, PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED). ALL NON-STORM WATER DISCHARGES WILL BE DIRECTED TO THE SEDIMENT BASIN PRIOR TO DISCHARGE. GROUNDWATER DEWATERING ACTIVITIES ARE NOT COVERED BY THIS PERMIT. THE CONTRACTOR MUST APPLY FOR COVERAGE UNDER THE GENERIC PERMIT FOR THE DISCHARGE OF PRODUCED GROUNDWATER FROM ANY NON-CONTAMINATED SITE ACTIVITY PURSUANT TO 62-621.300 (2), F.A.C.		
INVENTORY FOR POLLUTION PREVENTION PLAN		
THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED, BUT NOT LIMITED, TO BE PRESENT ON-SITE DURING CONSTRUCTION: <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> CONCRETE DETERGENTS PAINTS (ENAMEL AND LATEX) METAL STUDS GLASS TAR SAND </td> <td style="width: 50%; border: none;"> FERTILIZERS PETROLEUM BASED PRODUCTS AND FUELS CLEANING SOLVENTS WOOD MASONRY BLOCK ROOFING SHINGLES STONE </td> </tr> </table>	CONCRETE DETERGENTS PAINTS (ENAMEL AND LATEX) METAL STUDS GLASS TAR SAND	FERTILIZERS PETROLEUM BASED PRODUCTS AND FUELS CLEANING SOLVENTS WOOD MASONRY BLOCK ROOFING SHINGLES STONE
CONCRETE DETERGENTS PAINTS (ENAMEL AND LATEX) METAL STUDS GLASS TAR SAND	FERTILIZERS PETROLEUM BASED PRODUCTS AND FUELS CLEANING SOLVENTS WOOD MASONRY BLOCK ROOFING SHINGLES STONE	
SPILL PREVENTION MATERIAL MANAGEMENT PRACTICES		
THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF. GOOD HOUSEKEEPING: THE FOLLOWING GOOD HOUSEKEEPING PRACTICES SHALL BE FOLLOWED ON-SITE DURING THE CONSTRUCTION PROJECT. AN EFFORT SHALL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER CONTAINED ENCLOSURE. PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL MANUFACTURER'S LABELED CONTAINERS. SUBSTANCES SHALL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER. WHENEVER POSSIBLE, ALL OF A PRODUCT SHALL BE USED UP BEFORE DISPOSING OF THE CONTAINER. MANUFACTURERS' RECOMMENDATIONS FOR PROPER USE AND DISPOSAL SHALL BE FOLLOWED. THE SITE SUPERINTENDENT SHALL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ON-SITE. HAZARDOUS PRODUCTS: THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS. PRODUCTS SHALL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE. ORIGINAL LABELS AND MATERIAL SAFETY DATA SHALL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION. IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURERS' OR LOCAL AND STATE RECOMMENDED METHODS OF PROPER DISPOSAL SHALL BE FOLLOWED. THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ON-SITE: PETROLEUM PRODUCTS: ALL ON-SITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ON-SITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. FERTILIZERS: FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED SHED. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS. PAINTS: ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL REGULATIONS. CONCRETE TRUCKS: CONTRACTOR SHALL DESIGNATE AN AREA FOR DISCHARGE OF SURPLUS CONCRETE OR DRUM WASH WATER AND SHALL INSTALL A CONTAINMENT BERM AROUND THIS AREA TO PREVENT RUNOFF TO THE REMAINDER OF THE SITE. HARD DEBRIS SHALL BE DISPOSED OF BY CONTRACTOR UPON COMPLETION OF THE PROJECT.		

SPILL CONTROL PRACTICES												
IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES SHALL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP: MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ON-SITE. EQUIPMENT AND MATERIALS WILL INCLUDE, BUT NOT BE LIMITED TO, BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY. THE SPILL AREAS WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE. SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED. THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE WILL DESIGNATE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER ON-SITE.												
NOTICE OF INTENT (NOI) / NOTICE OF TERMINATION (NOT)												
<ul style="list-style-type: none"> THIS NOTICE OF INTENT (NOI) FORM IS TO BE COMPLETED AND SUBMITTED TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) BEFORE USE OF THE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES PROVIDED IN SUBSECTION 62-621.300(4), F.A.C. A NOTICE OF TERMINATION WILL BE SUBMITTED TO EPA AFTER THE CONSTRUCTION HAS BEEN COMPLETED AND THE SITE HAS UNDERGONE FINAL STABILIZATION. 												
POLLUTION PREVENTION PLAN CERTIFICATION												
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS HAVE BEEN READ BY ME OR MY DESIGNATED REPRESENTATIVE AND UNDERSTAND THAT THIS SYSTEM HAS BEEN PREPARED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.												
PERMITTEE: SIGNED:  NAME AND TITLE: <u>GORDAN ZIMMERMANN (OFFICER)</u> COMPANY: <u>ZMITCH, LLC</u> ADDRESS: <u>4939 NEW PROVIDENCE AVENUE</u> <u>TAMPA, FL 33629</u> DATE: <u>June 23rd, 2014</u>												
CONTRACTOR'S CERTIFICATION												
I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERIC STORM WATER PERMIT ISSUED PURSUANT TO SECTION 403.0885, F.S., THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">SIGNATURE</th> <th style="width: 30%;">FOR</th> <th style="width: 40%;">RESPONSIBLE FOR</th> </tr> </thead> <tbody> <tr> <td> NAME: _____ TITLE: _____ DATE: _____ </td> <td> COMPANY: _____ ADDRESS: _____ PHONE: _____ </td> <td style="text-align: center;"> GENERAL CONTRACTOR </td> </tr> <tr> <td> NAME: _____ TITLE: _____ DATE: _____ </td> <td> COMPANY: _____ ADDRESS: _____ PHONE: _____ </td> <td style="text-align: center;"> TEMPORARY AND PERMANENT STABILIZATION </td> </tr> <tr> <td> NAME: _____ TITLE: _____ DATE: _____ </td> <td> COMPANY: _____ ADDRESS: _____ PHONE: _____ </td> <td style="text-align: center;"> STABILIZED CONSTRUCTION ENTRANCE, EARTH DIKES, SEDIMENT BASIN </td> </tr> </tbody> </table>	SIGNATURE	FOR	RESPONSIBLE FOR	NAME: _____ TITLE: _____ DATE: _____	COMPANY: _____ ADDRESS: _____ PHONE: _____	GENERAL CONTRACTOR	NAME: _____ TITLE: _____ DATE: _____	COMPANY: _____ ADDRESS: _____ PHONE: _____	TEMPORARY AND PERMANENT STABILIZATION	NAME: _____ TITLE: _____ DATE: _____	COMPANY: _____ ADDRESS: _____ PHONE: _____	STABILIZED CONSTRUCTION ENTRANCE, EARTH DIKES, SEDIMENT BASIN
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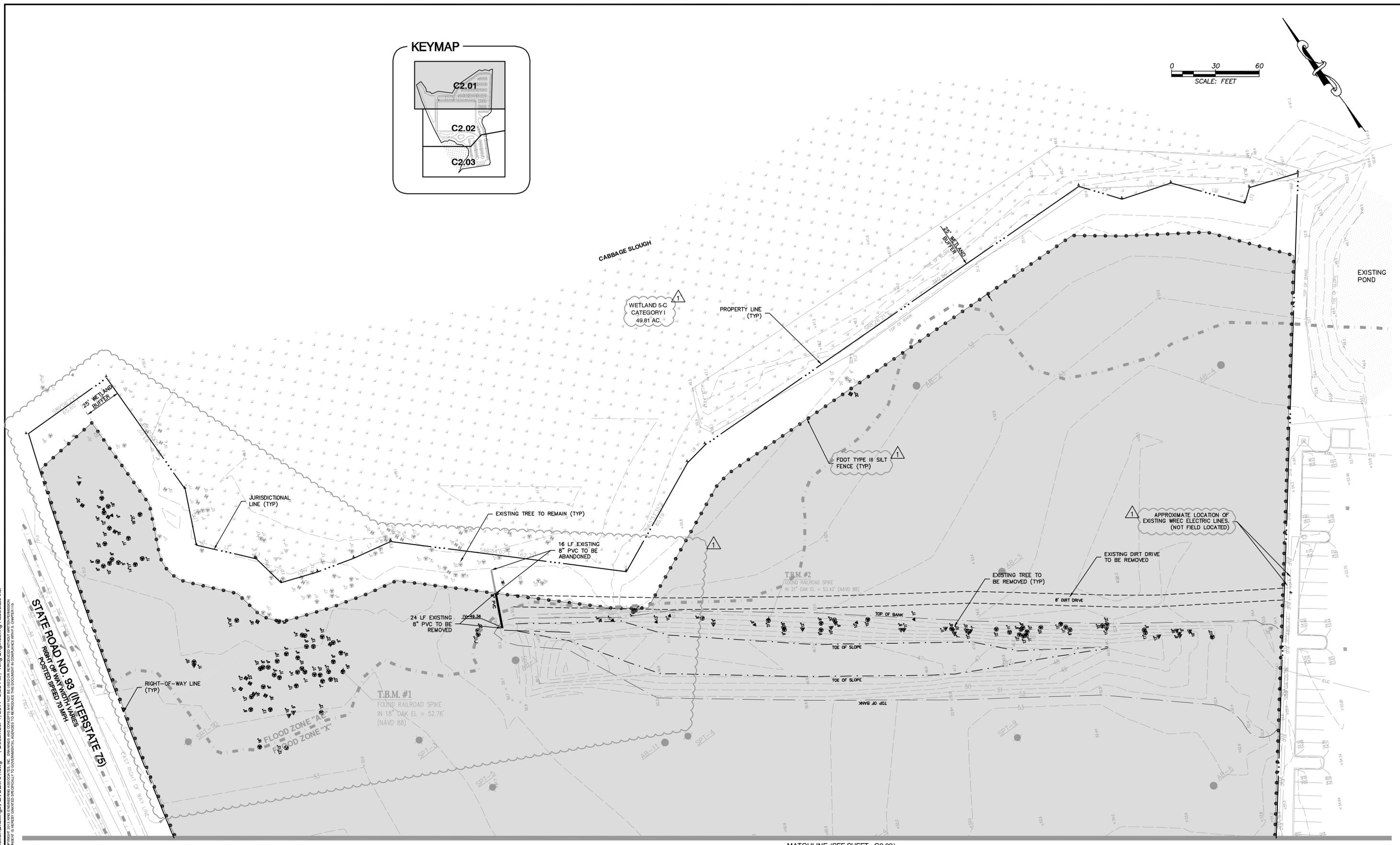
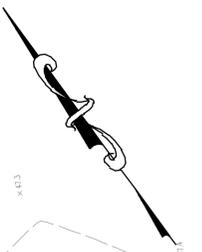
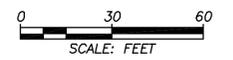
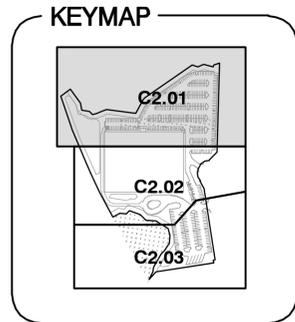


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CONSTRUCTION POLLUTION PREVENTION PLAN

NO.	DATE	DESCRIPTION	APP'D BY
1.	11/20/2014	QC REVIEW & GEOTECHNICAL RECOMMENDATIONS FOR FIRE LANE AND PERVIOUS PAVEMENT	NLL
2.	11/04/2014	UPDATED PER GEOTECHNICAL RECOMMENDATIONS	NLL
1.	10/16/2014	PASCO COUNTY & SWFWM COMMENTS	NLL

JOB NO. 4947-000-000	SHEET NO. C2.00
DATE 2/6/2014	SCALE AS SHOWN
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MATCHLINE (SEE SHEET C2.02)

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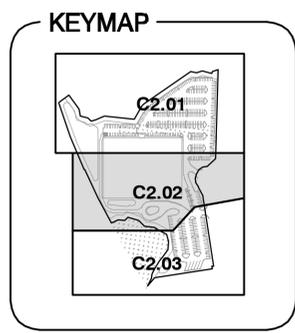
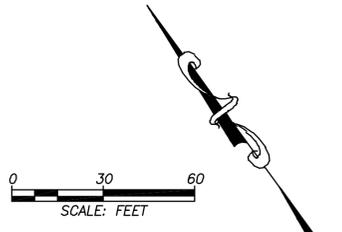
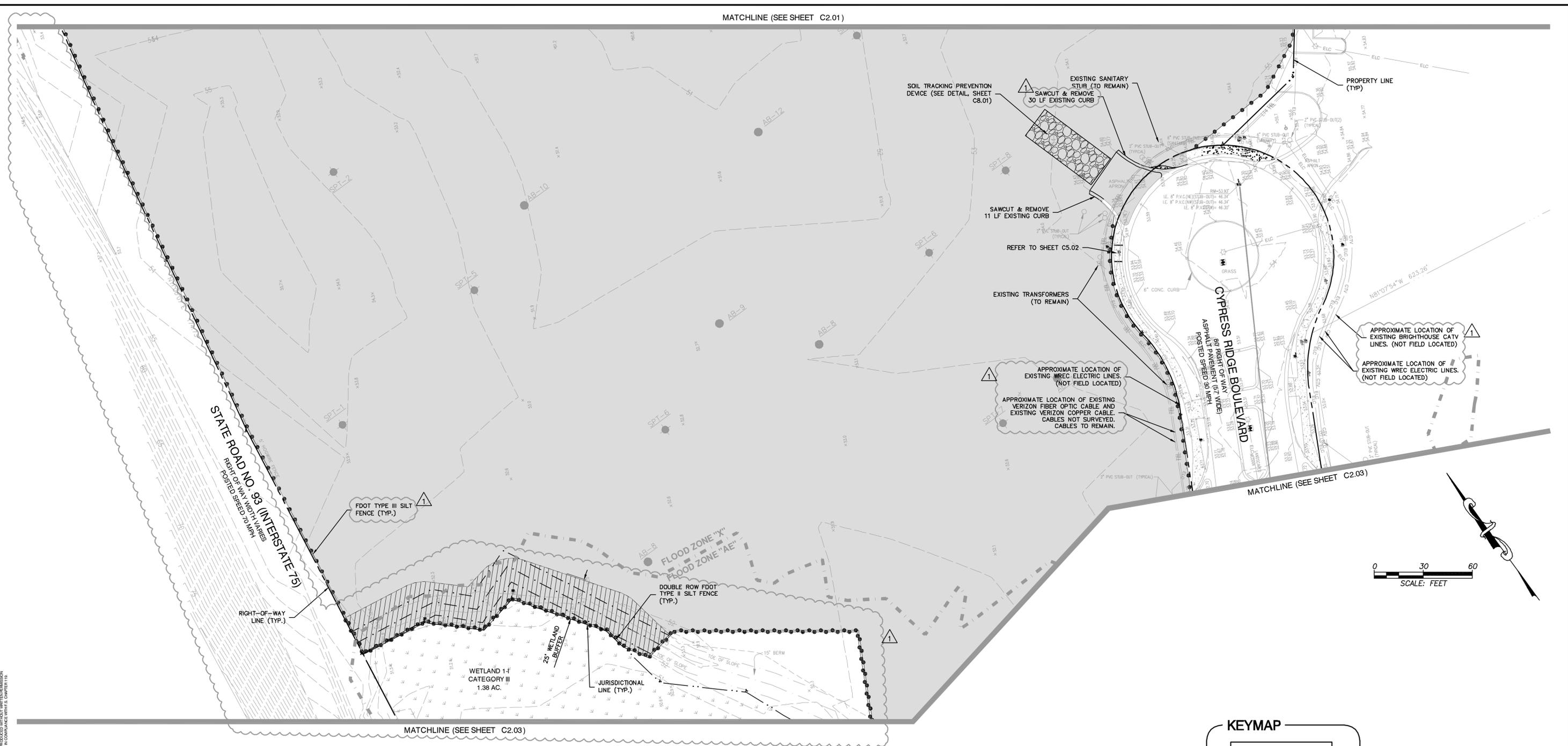
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DEMOLITION AND SITE PREPARATION PLAN

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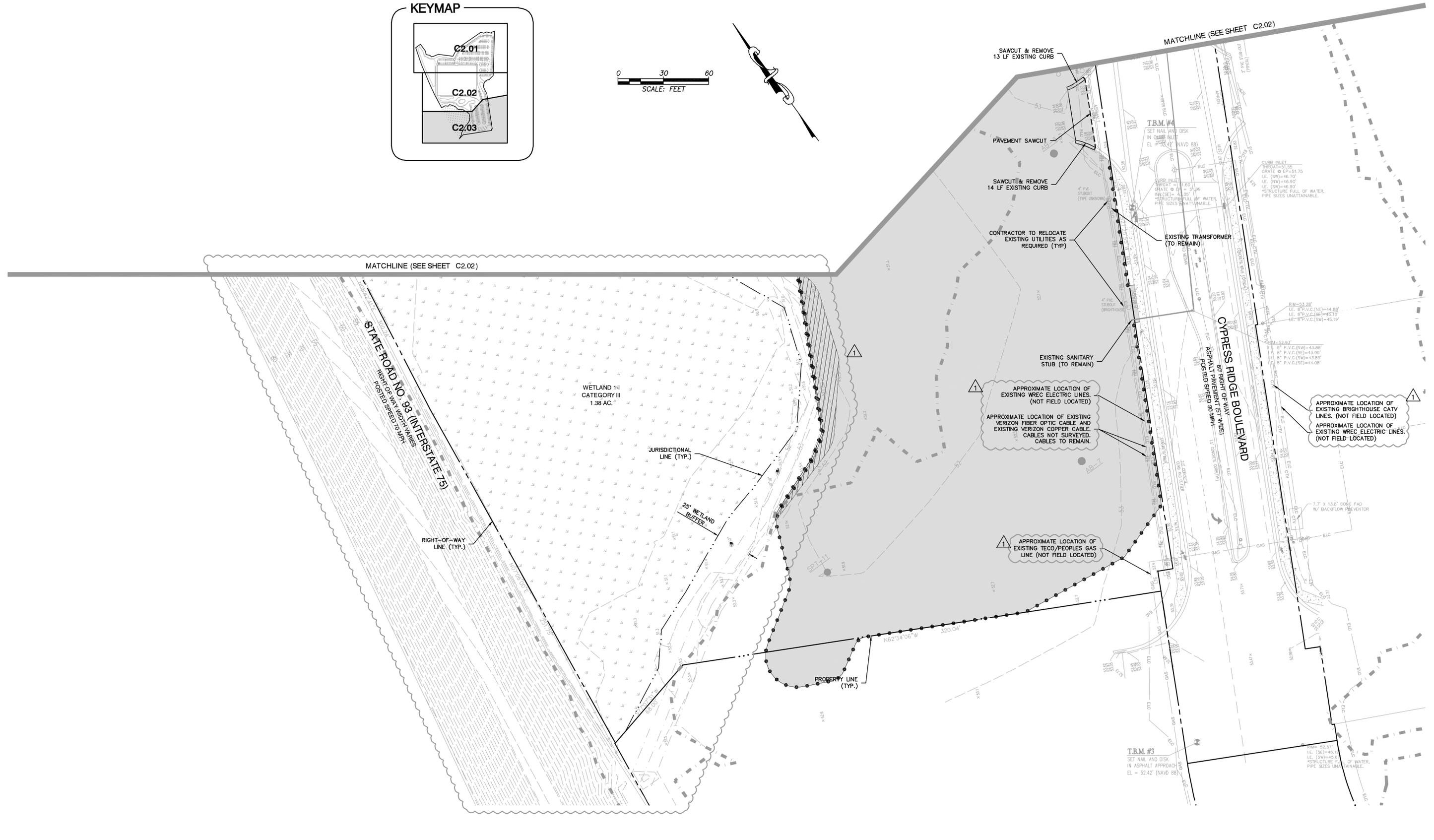
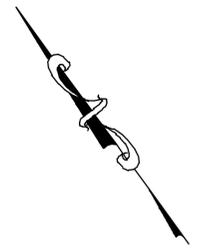
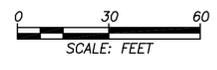
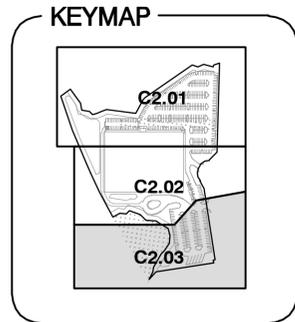
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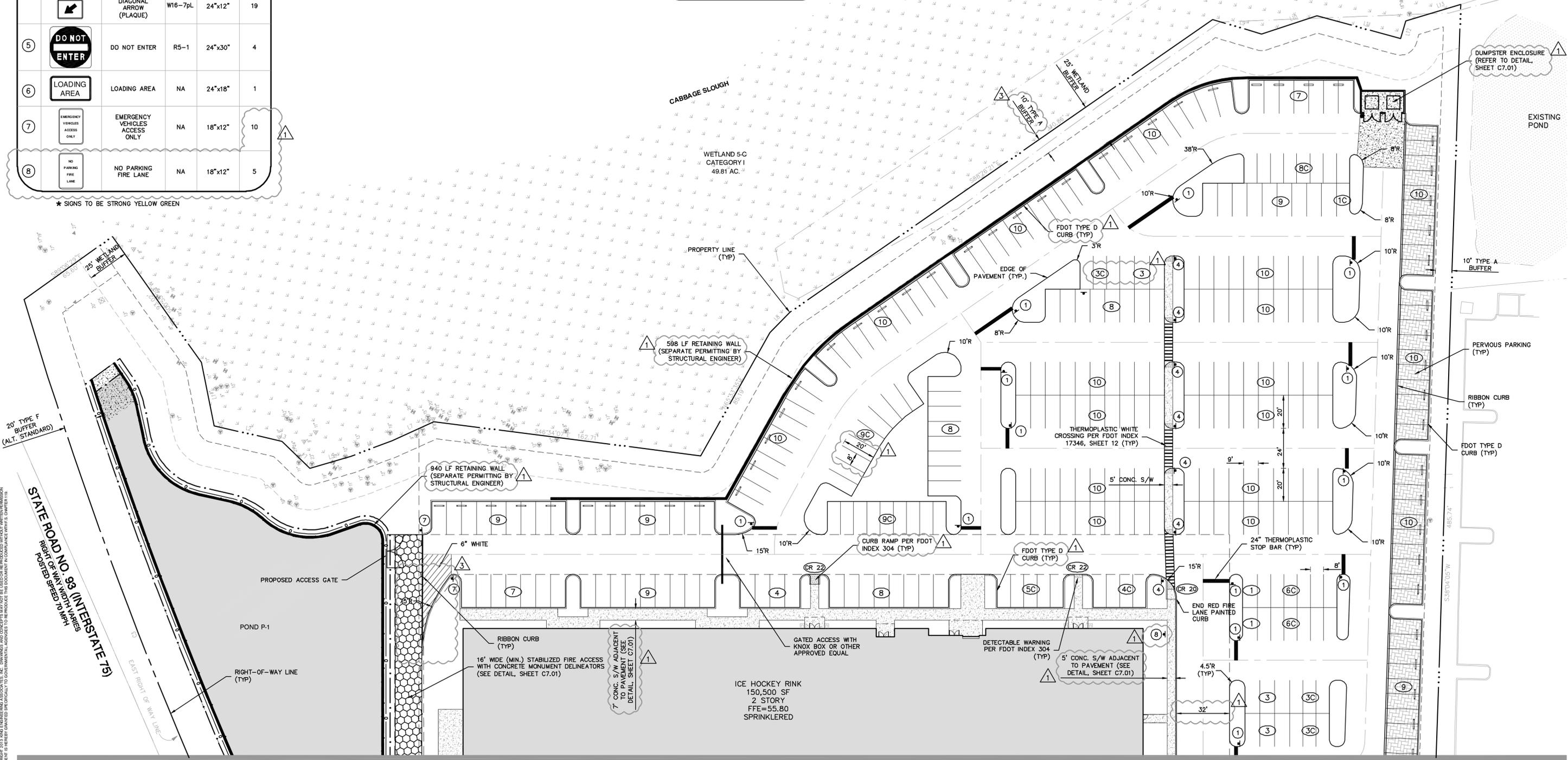
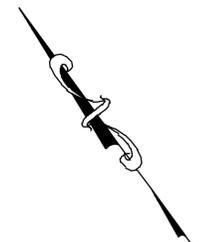
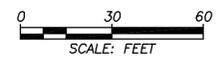
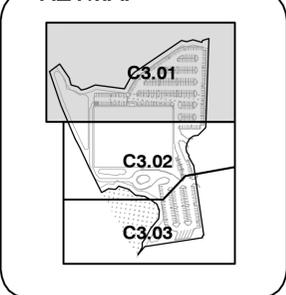
SIGN LEGEND

NO.	SYMBOL	DESCRIPTION	REGULATORY NO.	SIZE	QUANTITY
1		STOP	R1-1	30"x30"	21
2		HANDICAP PARKING	FTP-20-06	18"x12"	9
3		\$250 FINE	FTP-22-06	6"x12"	9
4		PEDESTRIAN SIGN	W11-2	30"x30"	19
5		DOWNWARD DIAGONAL ARROW (PLAQUE)	W16-7pL	24"x12"	19
6		DO NOT ENTER	R5-1	24"x30"	4
7		LOADING AREA	NA	24"x18"	1
8		EMERGENCY VEHICLES ACCESS ONLY	NA	18"x12"	10
9		NO PARKING FIRE LANE	NA	18"x12"	5

* SIGNS TO BE STRONG YELLOW GREEN

- NOTES:
1. ALL TRAFFIC CONTROL SIGNING AND MARKINGS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND FDOT STANDARDS.
 2. ALL PARKING SPACES SHALL BE STRIPED IN WHITE.
 3. SITE TRIANGLES SHALL BE UNOBSTRUCTED AND SHALL BE INSPECTED AND MAINTAINED IN ACCORDANCE WITH FDOT INDEX 546.
 4. ALL SIGNING AND MARKING FOR HANDICAP ACCESSIBLE PARKING SHALL BE IN ACCORDANCE WITH FDOT INDEX NO. 17346

KEYMAP



MATCHLINE (SEE SHEET C3.02)

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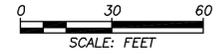
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2.	11/04/2014	UPDATED PER GEOTECHNICAL RECOMMENDATIONS	NLL
1.	10/16/2014	PASCO COUNTY & S/W/WM COMMENTS	NLL

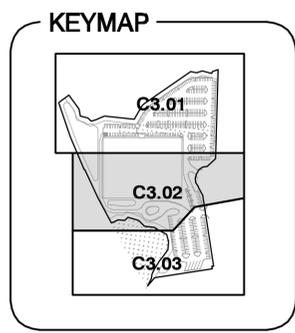
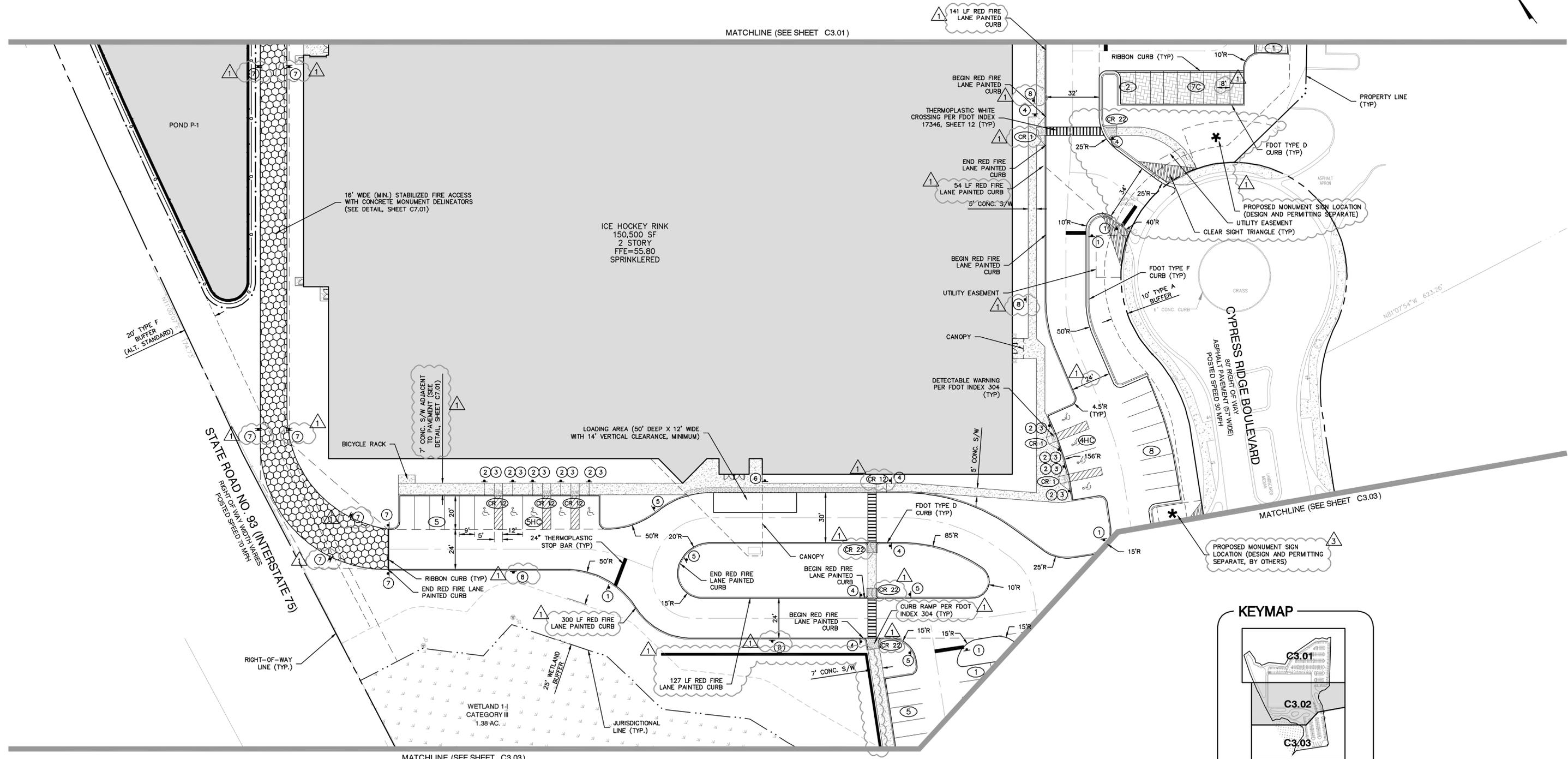
JOB NO. 4947-000-000
DATE: 2/6/2014
SCALE: AS SHOWN

SHEET NO. **C3.01**

PASCO COUNTY RESUBMITTAL
DECEMBER 1, 2014



MATCHLINE (SEE SHEET C3.01)



- NOTES:
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 2. ALL PARKING SPACES SHALL BE STRIPED IN WHITE.
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 4. ALL SIGNING AND MARKING FOR HANDICAP ACCESSIBLE PARKING SHALL BE IN ACCORDANCE WITH FDOT INDEX NO. 17346

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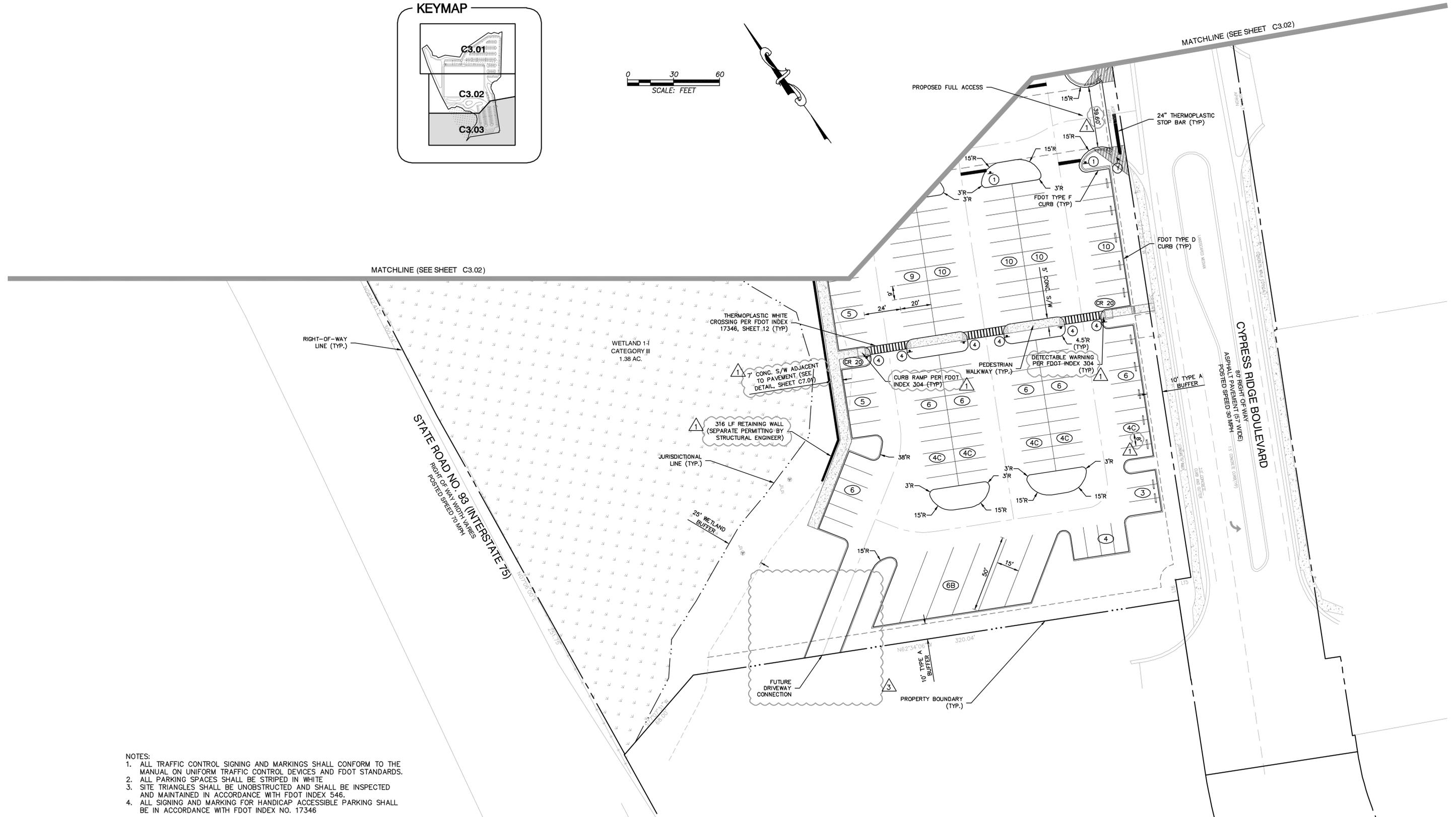
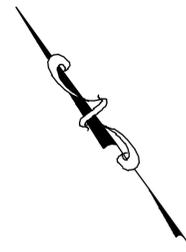
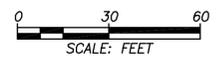
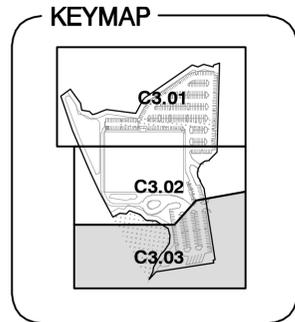
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1.	10/16/2014	PASCO COUNTY & SWFWMD COMMENTS	NULL

JOB NO.	4947-000-000	SHEET NO.	C3.02
DATE	2/6/2014	SCALE	AS SHOWN
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- NOTES:
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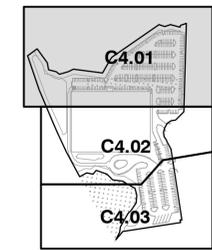
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SIGNING, PAVEMENT MARKING AND DIMENSIONING PLAN

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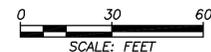
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C3.03
 PASCO COUNTY RESUBMITTAL
 DECEMBER 1, 2014

KEYMAP

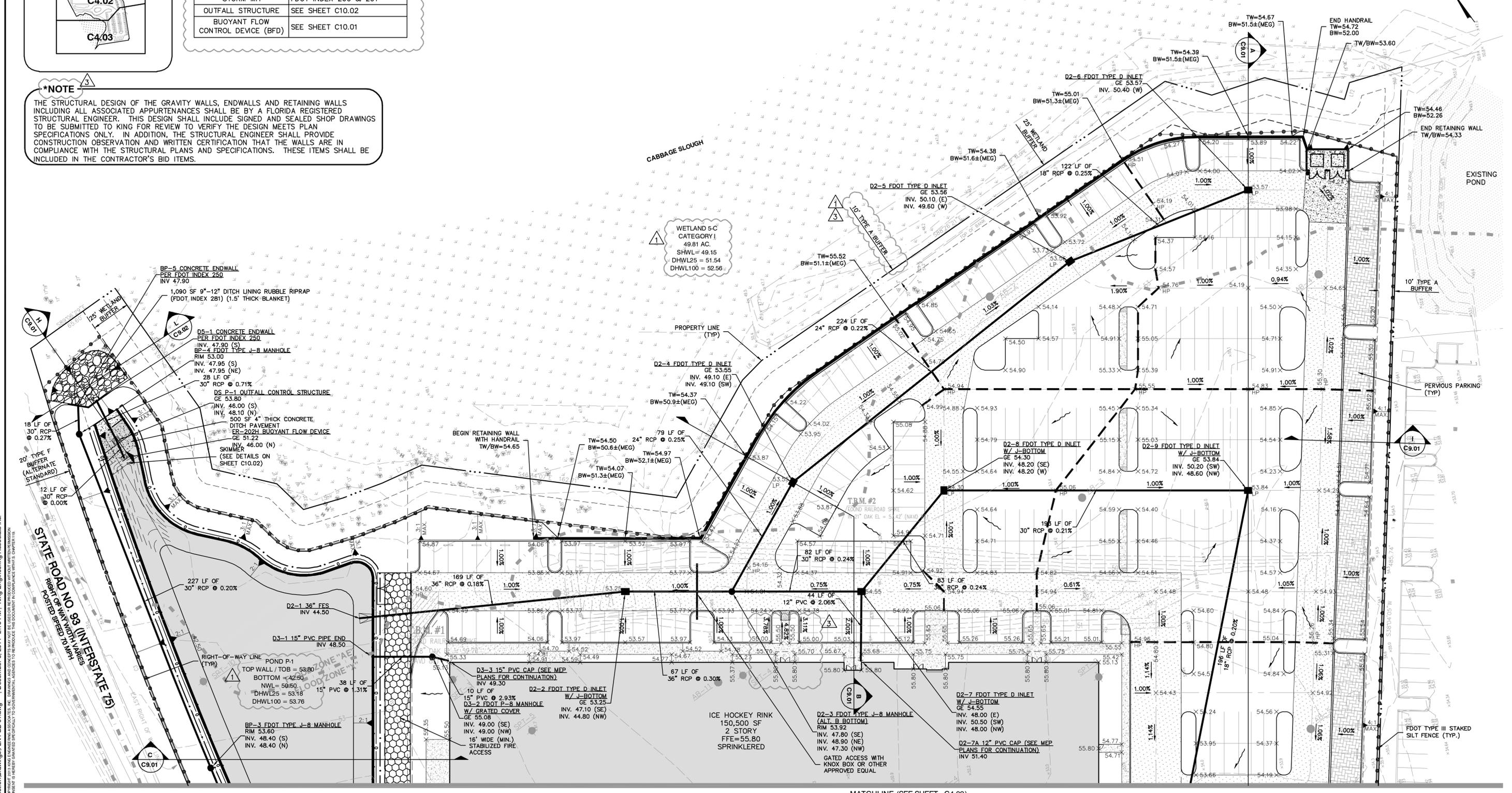


STRUCTURE DETAIL INFORMATION	
STRUCTURE NAME	DETAIL LOCATION
TYPE C & D INLET	FDOT INDEX 232
STORM MH	FDOT INDEX 200 & 201
OUTFALL STRUCTURE	SEE SHEET C10.02
BUOYANT FLOW CONTROL DEVICE (BFD)	SEE SHEET C10.01

NOTE: ALL PROPOSED GRADE SHOWN THROUGHOUT PARKING LOT ARE PAVEMENT ELEVATIONS AND/OR EDGE OF PAVEMENT ELEVATIONS.



***NOTE**
 THE STRUCTURAL DESIGN OF THE GRAVITY WALLS, ENDWALLS AND RETAINING WALLS INCLUDING ALL ASSOCIATED APPURTENANCES SHALL BE BY A FLORIDA REGISTERED STRUCTURAL ENGINEER. THIS DESIGN SHALL INCLUDE SIGNED AND SEALED SHOP DRAWINGS TO BE SUBMITTED TO KING FOR REVIEW TO VERIFY THE DESIGN MEETS PLAN SPECIFICATIONS ONLY. IN ADDITION, THE STRUCTURAL ENGINEER SHALL PROVIDE CONSTRUCTION OBSERVATION AND WRITTEN CERTIFICATION THAT THE WALLS ARE IN COMPLIANCE WITH THE STRUCTURAL PLANS AND SPECIFICATIONS. THESE ITEMS SHALL BE INCLUDED IN THE CONTRACTOR'S BID ITEMS.



MATCHLINE (SEE SHEET C4.02)

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PAVING, GRADING AND DRAINAGE PLAN

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JOB NO.	4947-000-000	SHEET NO.	C4.01
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Wetland Buffer Impact Area A Replanting Plan and Enhancement Area B Planting Schedule

SPECIES	COMMON NAME	SPACING	SIZE	NUMBER OF UNITS	
				Impact Area A	Enhancement Area B
<i>Myrica cerifera</i>	Wax Myrtle	5' O.C.*	3 Gal.	70	60
<i>Serenoo repens</i>	Saw Palmetto	8' O.C.	3 Gal.	30	0
<i>Callicarpa americana</i>	Beautyberry	8' O.C.	3 Gal.	30	0
<i>Spartina Bakeri</i>	Sand Cordgrass	3' O.C.	1 Gal.	290	145
<i>Eragrostis spectabilis</i>	Purple Lovegrass	3' O.C.	4" pot	290	0

- Notes:
- 1) Plants to be obtained from local, licensed nursery.
 - 2) O.C. = On Center
 - 3) Plants to be installed in naturalistic groupings in open spaces in the existing natural habitat.
 - 4) *Wax Myrtle will be planted in a single row or staggered row +/- 1ft. offset from the base of the retaining wall along Enhancement Area B and Impact Area C. Impact Area A will be planted in naturalistic groupings.
 - 5) The plantings for Impact Area A should be planted within 3 months of final grading of the buffer.

WETLAND BUFFER ENHANCEMENT AREA PLANTING STANDARDS
The following standards shall be required for wetland buffer plantings:

STANDARDS FOR SHRUBS

	Seedlings	1 gallon	3 gallon
Height	6 - 12"	15-24"	18-36"
Time in container (min)	45 days	60 days	60 days

Roots are to be fully rooted in pot but NOT root-bound.

STANDARDS FOR HERBS AND GRASSES

	2 inch pot	4 inch pot	1 gallon
Roots	Fully rooted	Fully rooted	Fully rooted
Time in container (min)	45 days	45 days	45 days

Roots are to be fully rooted in pot but NOT root-bound.

CONTINGENCY REPLANTING/REMEDATION PLAN

Should monitoring of the buffer enhancement areas indicate that coverage of desirable upland species does not equal or exceed 50 percent by the end of the first year, 70 percent by the second year or 85 percent by the end of the third year post creation, those buffer enhancement areas (or portions thereof) not meeting the target levels will receive plantings (as approved by the regulatory agencies) to augment the vegetative coverage. If required, planting will be conducted on an annual basis to ensure sufficient coverage to meet the minimum success criteria.

BUFFER ENHANCEMENT AREA MONITORING NOTES

Onsite Buffer Enhancement Areas will be monitored by a qualified environmental scientist according to the following conditions:

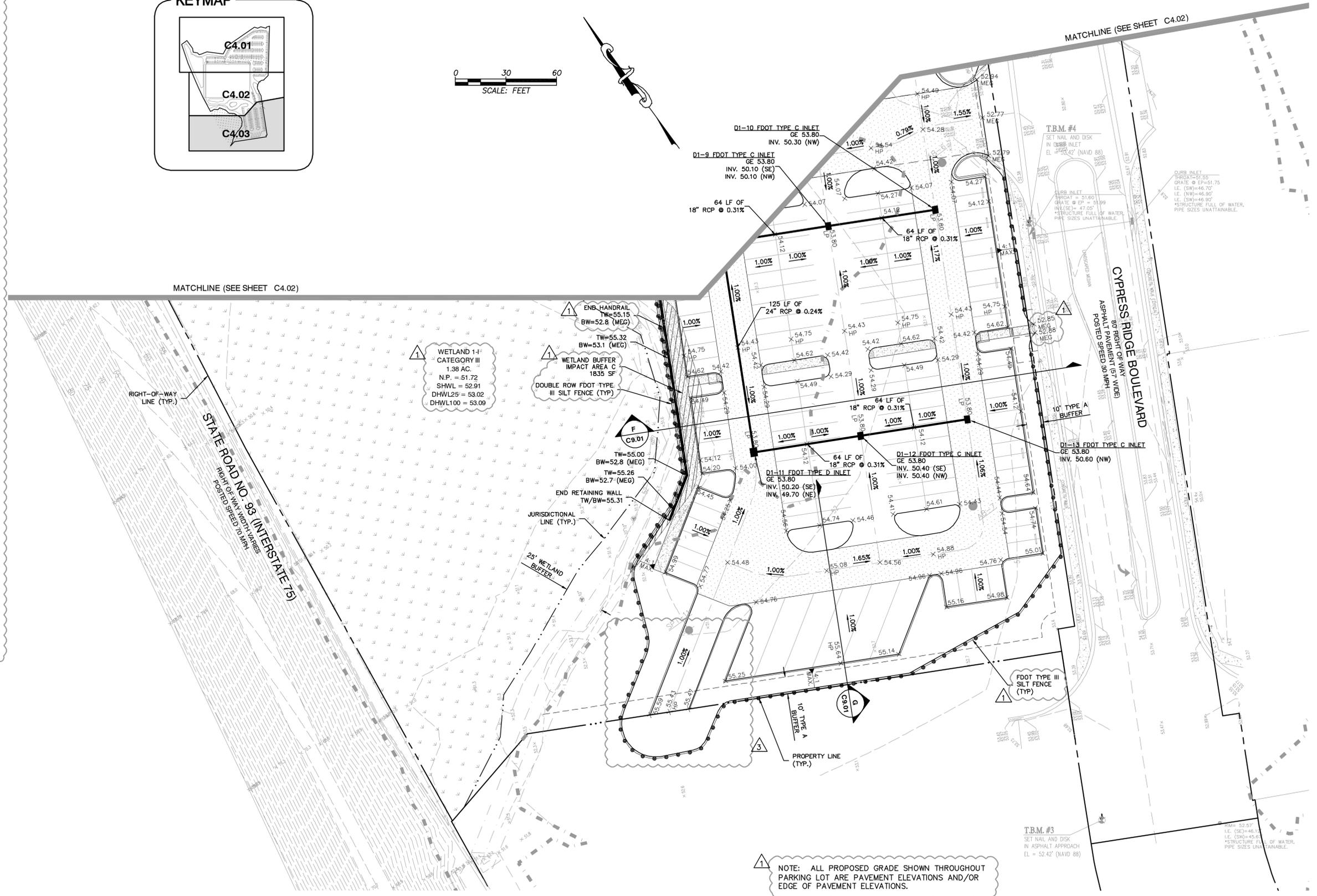
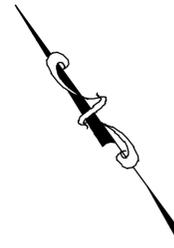
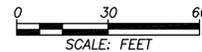
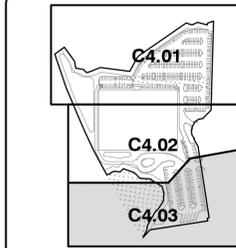
A buffer planting completion report will be prepared and submitted within 30 days of completing construction and planting of the wetland mitigation areas(s).

Upon Agency inspection and approval of the buffer enhancement area(s), the monitoring program shall be initiated with the date of the Agency field inspection being the construction completion date of the mitigation area(s). Monitoring events shall occur between March 1 and November 30 of each year. Monitoring Reports shall be prepared and submitted to the permitting agencies according to the permit-specified schedule. The buffer enhancement areas will be monitored and related reports submitted until the specified success criteria are met. Monitoring reports must be submitted to the permitting agencies on the one year anniversary date of initiation of monitoring.

Monitoring reports shall provide documentation that a sufficient number of maintenance inspection/activities were conducted to maintain site(s) in compliance according to permit conditions. Note that the performance of maintenance inspections and maintenance activities will normally need to be conducted more frequently than the collection of other monitoring data to maintain the mitigation site(s) in compliance with permit conditions. Each monitoring report will include the following:

- Date of planting and number of plants installed;
- Percent survival for all planted species;
- Percent coverage for recruited species;
- Notes on wildlife observations;
- Photographic documentation from fixed point photo stations;
- Problems encountered and corrective actions recommended; and
- Discussion of degree of success criteria attained.

KEYMAP



NOTE: ALL PROPOSED GRADE SHOWN THROUGHOUT PARKING LOT ARE PAVEMENT ELEVATIONS AND/OR EDGE OF PAVEMENT ELEVATIONS.

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CYPRESS CREEK ICE HOCKEY
FOR
ZMITCH, LLC
4939 NEW PROVIDENCE AVE.
TAMPA, FL 33629

PAVING, GRADING AND DRAINAGE PLAN

NO.	DATE	DESCRIPTION	APP'D BY
3.	11/20/2014	QC REVIEW & GEOTECHNICAL RECOMMENDATIONS FOR PAVEMENT AND PERVIOUS PAVEMENT	NLL
2.	11/04/2014	UPDATED PER GEOTECHNICAL RECOMMENDATIONS	NLL
1.	10/16/2014	PASCO COUNTY & SWFWMD COMMENTS	NLL

JOB NO.	4947-000-000
DATE	2/6/2014
SCALE	AS SHOWN
SHEET NO.	C4.03
PASCO COUNTY RESUBMITTAL DECEMBER 1, 2014	

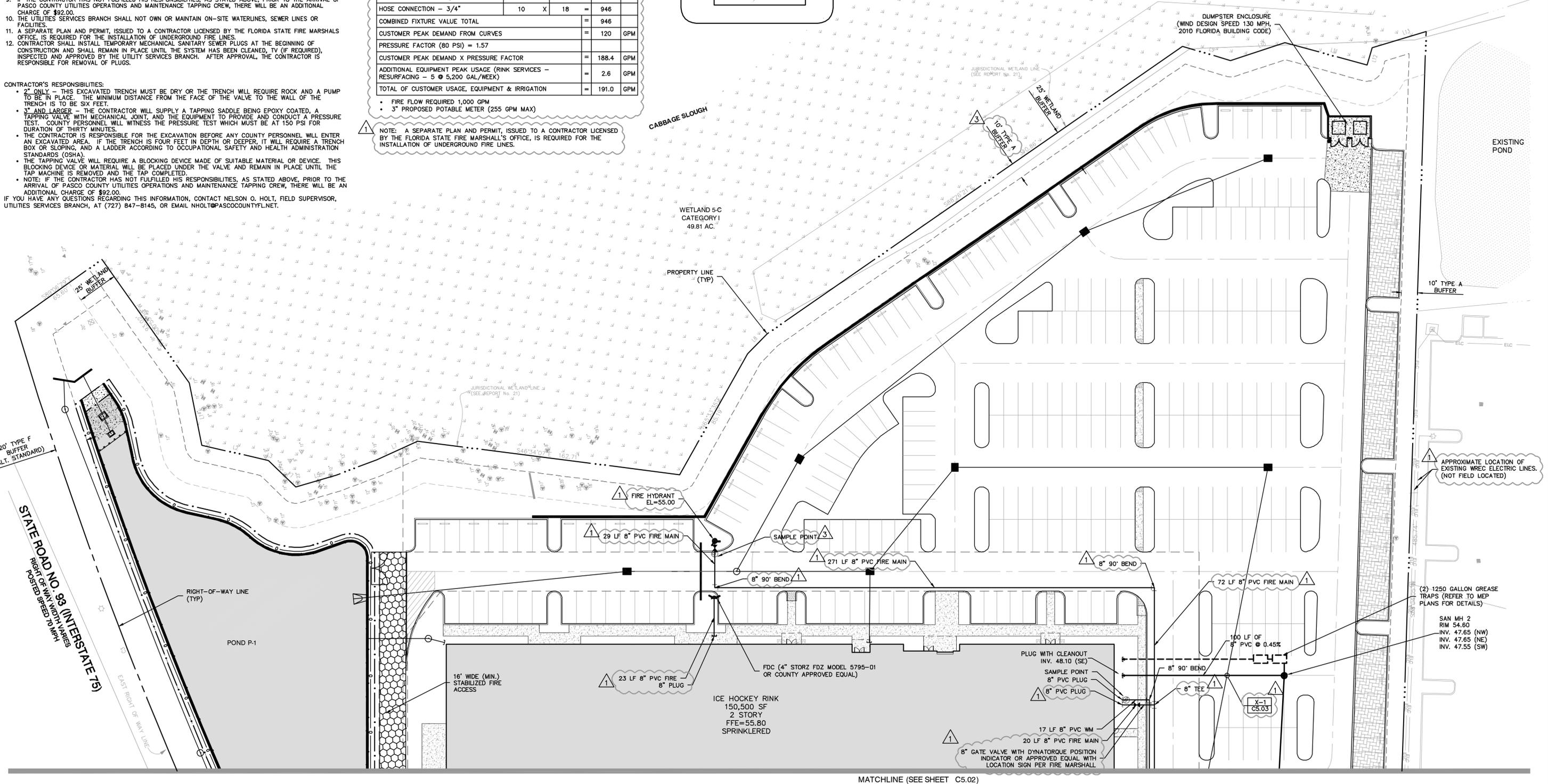
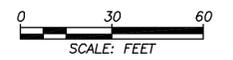
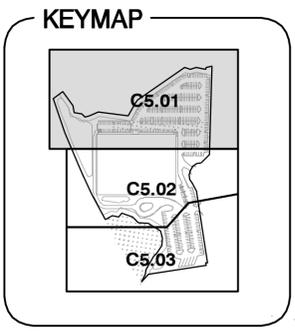
- NOTES:
- CONTRACTOR TO COORDINATE CONDUITS WITH PRIVATE COMPANIES (ALIGNMENT NOT SHOWN).
 - CONTRACTOR AND DEVELOPER TO COORDINATE SERVICE CONNECTIONS (OVERHEAD/JACK & BORE) WITH PRIVATE UTILITY PROVIDER & FDOT (EXISTING OVERHEAD BRANCH LINES LOCATED ON THE NORTH SIDE OF SR56).
 - ALL FIRE HYDRANTS SHALL BE FLOW-TESTED AND COLOR CODED BASED ON FLOW RESULTS.
 - ALL UTILITY SYSTEM-DESIGN MATERIALS AND WORKMANSHIP SHALL COMPLY WITH STANDARDS FOR DESIGN AND CONSTRUCTION OF WATER, WASTEWATER, AND RECLAIMED WATER FACILITIES SPECIFICATIONS, LATEST EDITION.
 - 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.
 - 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 30 MINUTES.
 - THE CONTRACTOR IS RESPONSIBLE FOR THE EXCAVATION BEFORE ANY COUNTY PERSONNEL WILL ENTER THE EXCAVATED AREA. IF THE TRENCH IS FOUR FEET IN DEPTH OR DEEPER, IT WILL REQUIRE A TRENCH BOX OR SLOPING, AND A LADDER ACCORDING TO OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION STANDARDS (OSHA).
 - 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.
 - 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.
 - THE UTILITIES SERVICES BRANCH SHALL NOT OWN OR MAINTAIN ON-SITE WATERLINES, SEWER LINES OR FACILITIES.
 - A SEPARATE PLAN AND PERMIT, ISSUED TO A CONTRACTOR LICENSED BY THE FLORIDA STATE FIRE MARSHALS OFFICE, IS REQUIRED FOR THE INSTALLATION OF UNDERGROUND FIRE LINES.
 - CONTRACTOR SHALL INSTALL TEMPORARY MECHANICAL SANITARY SEWER PLUGS AT THE BEGINNING OF CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL THE SYSTEM HAS BEEN CLEANED, TV (F REQUIRED), INSPECTED AND APPROVED BY THE UTILITIES SERVICES BRANCH. AFTER APPROVAL, THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF PLUGS.

- CONTRACTOR'S RESPONSIBILITIES:
- 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 OR SLOPING, AND A LADDER ACCORDING TO OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION STANDARDS (OSHA).
 - 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 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.
 - IF YOU HAVE ANY QUESTIONS REGARDING THIS INFORMATION, CONTACT NELSON O. HOLT, FIELD SUPERVISOR, UTILITIES SERVICES BRANCH, AT (727) 847-8145, OR EMAIL NHOLT@PASCOCOUNTYFL.NET.

PASCO COUNTY UTILITIES DATA SHEET FOR SIZING WATER METERS

FIXTURE	FIXTURE VALUE AT 35 PSI	X	NO OF FIXTURES	=	FIXTURE VALUE
DRINKING FOUNTAIN - PUBLIC	2	X	18	=	36
KITCHEN SINK - 3/4" CONNECTION	7	X	4	=	28
LAVATORY - 3/8" CONNECTION	2	X	28	=	56
SHOWER HEAD (SHOWER ONLY)	4	X	60	=	240
SERVICE SINK - 1/2" CONNECTION	3	X	2	=	6
URINAL - PEDESTAL FLUSH VALVE	10	X	4	=	40
WATER CLOSET - FLUSH VALVE	10	X	32	=	320
DISHWASHER - 3/4" CONNECTION	10	X	2	=	20
WASHING MACHINE - 3/4" CONNECTION	10	X	2	=	180
HOSE CONNECTION - 3/4"	10	X	18	=	946
COMBINED FIXTURE VALUE TOTAL				=	946
CUSTOMER PEAK DEMAND FROM CURVES				=	120 GPM
PRESSURE FACTOR (80 PSI) = 1.57					
CUSTOMER PEAK DEMAND X PRESSURE FACTOR				=	188.4 GPM
ADDITIONAL EQUIPMENT PEAK USAGE (RINK SERVICES - RESURFACING - 5 @ 5,200 GAL/WEEK)				=	2.6 GPM
TOTAL OF CUSTOMER USAGE, EQUIPMENT & IRRIGATION				=	191.0 GPM

• FIRE FLOW REQUIRED 1,000 GPM
• 3" PROPOSED POTABLE METER (255 GPM MAX)



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THE SIGNATURE OF THE QUALITY CONTROL ORIGINATOR IN THIS SPACE INDICATES THAT ALL REQUIRED PERMITS HAVE BEEN OBTAINED AND THAT CONSTRUCTION IS AUTHORIZED TO COMMENCE.

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CYPRESS CREEK ICE HOCKEY
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ZMITCH, LLC
4939 NEW PROVIDENCE AVE.
TAMPA, FL 33629

SANITARY SEWER AND WATER DISTRIBUTION PLAN

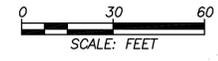
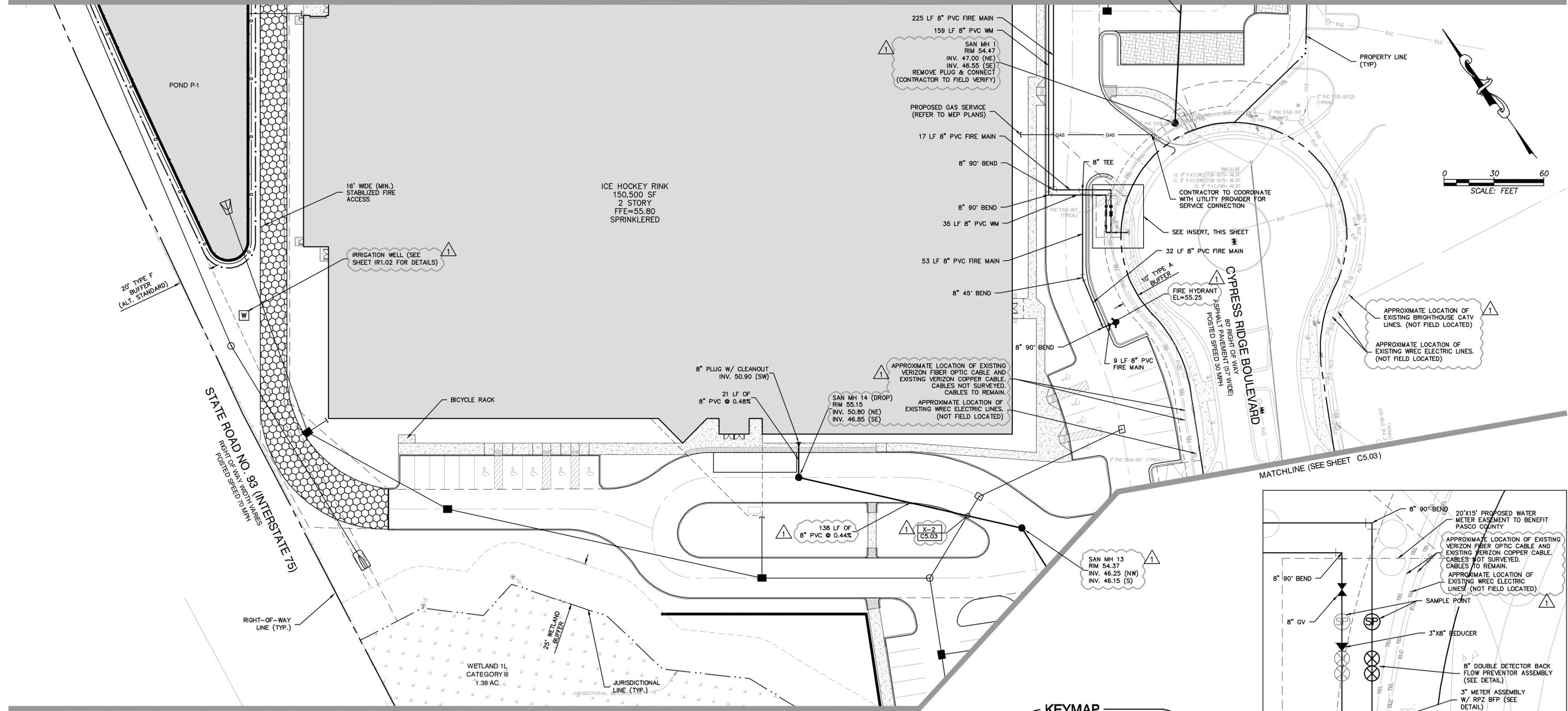
NO.	DATE	DESCRIPTION	APP'D BY
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2.	11/04/2014	UPDATED PER GEOTECHNICAL RECOMMENDATIONS	NLL
1.	10/16/2014	PASCO COUNTY & SFWMD COMMENTS	NLL

JOB NO. 4947-000-000
DATE: 2/6/2014
SCALE: AS SHOWN

SHEET NO. **C5.01**

PASCO COUNTY RESUBMITTAL
DECEMBER 1, 2014

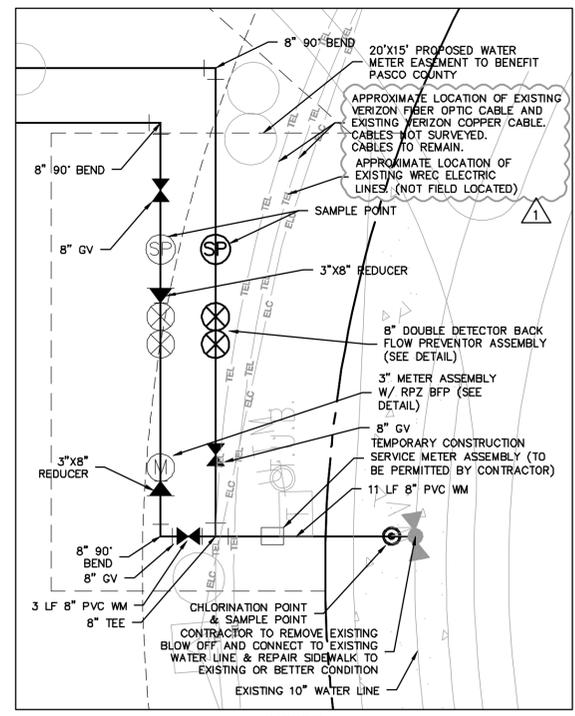
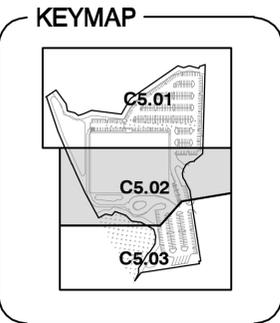
MATCHLINE (SEE SHEET C5.01)



MATCHLINE (SEE SHEET C5.03)

MATCHLINE (SEE SHEET C5.03)

NOTE: 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.



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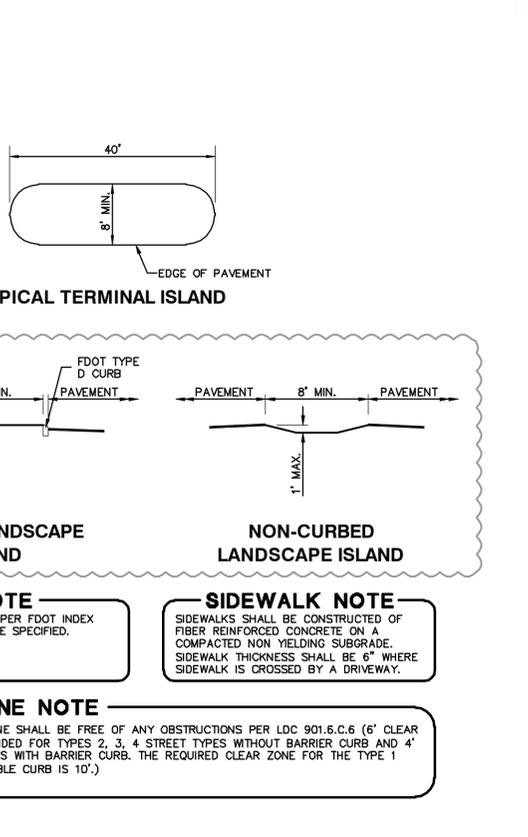
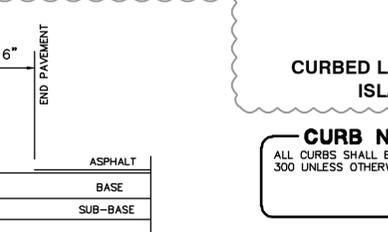
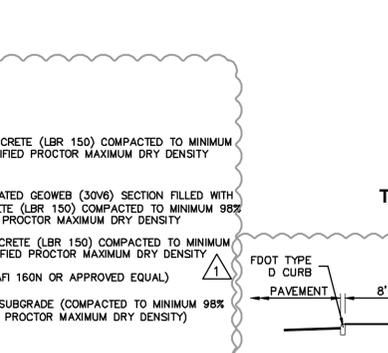
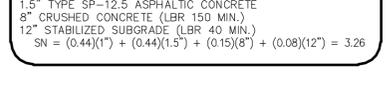
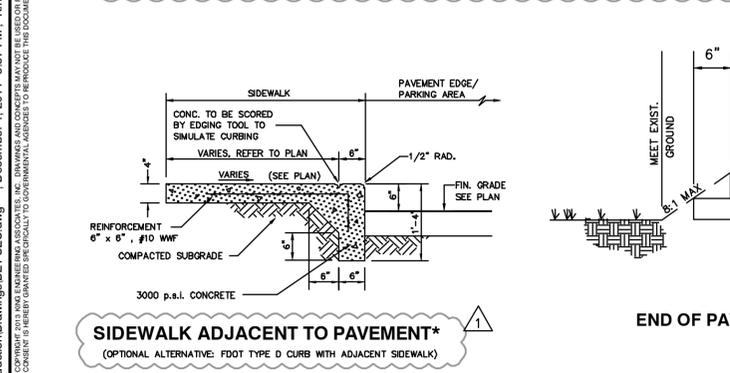
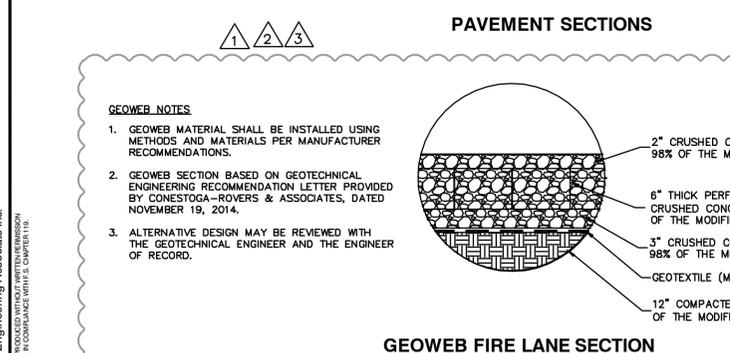
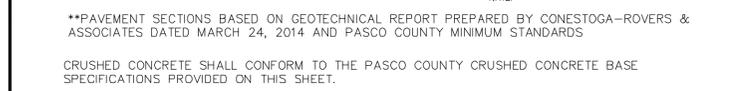
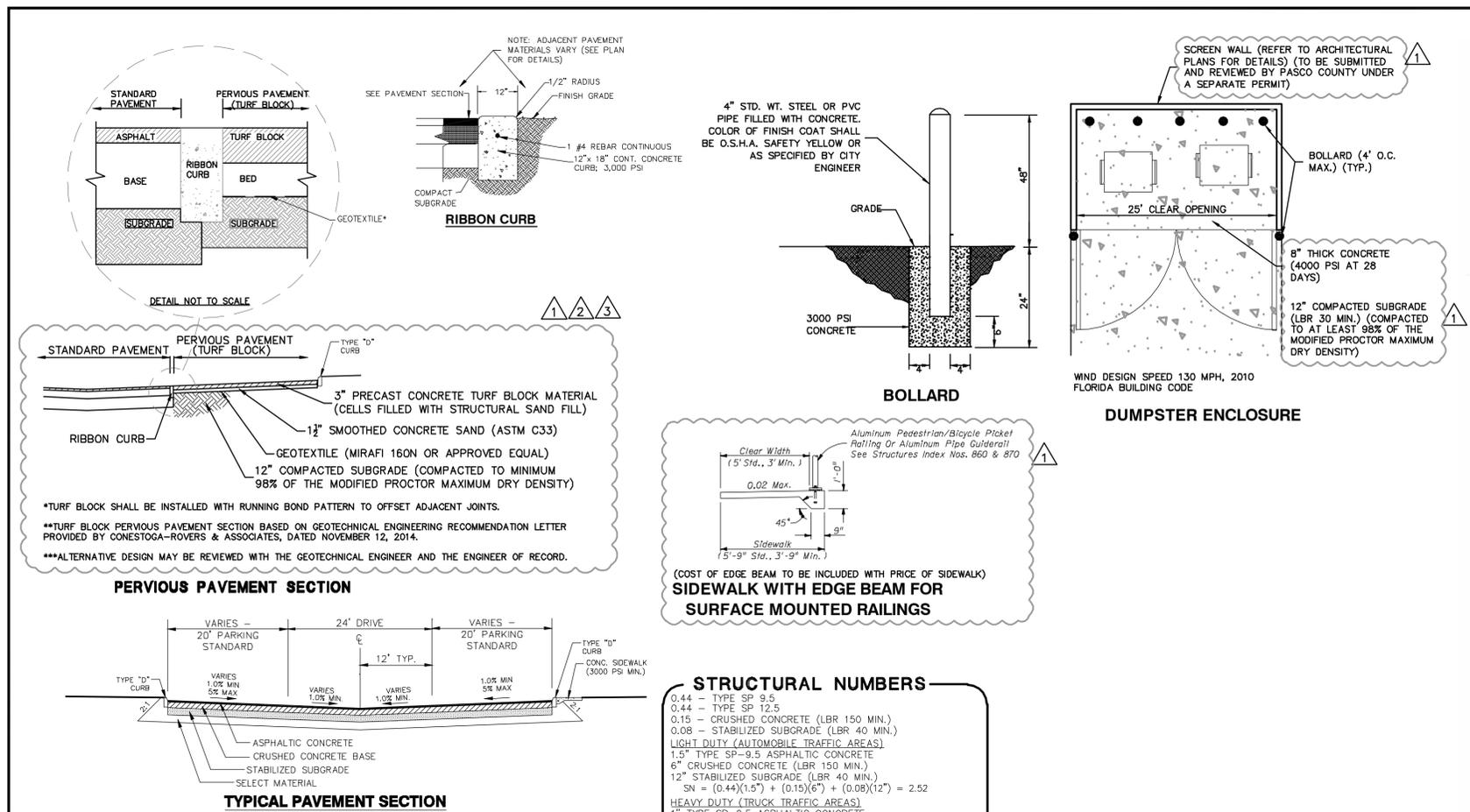
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CYPRESS CREEK ICE HOCKEY
FOR
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4939 NEW PROVIDENCE AVE.
TAMPA, FL 33629

SANITARY SEWER AND WATER DISTRIBUTION PLAN

NO.	DATE	DESCRIPTION	APP'D BY
3.	11/20/2014	GC REVIEW & GEOTECHNICAL RECOMMENDATIONS FOR FIRE LINE AND PERVIOUS PAVEMENT	NULL
2.	11/04/2014	UPDATED PER GEOTECHNICAL RECOMMENDATIONS	NULL
1.	10/16/2014	PASCO COUNTY & SFWMD COMMENTS	NULL

JOB NO.	4947-000-000	SHEET NO.	C5.02
DATE	2/6/2014		
SCALE	AS SHOWN		
PASCO COUNTY RESUBMITTAL DECEMBER 1, 2014			



PASCO COUNTY ENGINEERING SERVICES DESIGN STANDARDS		APPROVED BY	BCC APPROVAL	REVISED	DWG. NO.
PASCO COUNTY ENGINEERING SERVICES DESIGN STANDARDS		APPROVED BY	BCC APPROVAL	REVISED	DWG. NO.

PASCO COUNTY CRUSHED CONCRETE BASE SPECIFICATIONS

THE WORK SPECIFIED UNDER THIS SECTION CONSISTS OF THE CONSTRUCTION OF ROADWAY BASE UTILIZING CRUSHED CONCRETE (RECLAIMED CONCRETE AGGREGATE BASE MATERIAL) ON A PREPARED STABILIZED SUBGRADE OF LBR 40 WITH A DENSITY OF 98% OF THE MODIFIED PROCTOR MAXIMUM DENSITY AS DETERMINED BY FM 3-130, METHOD D, IN CONFORMANCE WITH THE LINES, GRADES, NOTES AND TYPICAL CROSS SECTIONS SHOWN IN THE PLANS, AND AS DIRECTED BY THE COUNTY ENGINEER.

THE CONSTRUCTION OF CRUSHED CONCRETE BASE SHALL CONFORM TO THE REQUIREMENTS OF THIS SECTION, OR, IN LIEU THEREOF, SUCH REQUIREMENTS AS MAY BE ESTABLISHED BY THE COUNTY ENGINEER DURING CONSTRUCTION. THE COUNTY ENGINEER SHALL HAVE FULL AUTHORITY TO MODIFY THE PROVISIONS OF THIS SECTION AS DEEMED NECESSARY, IN HIS OPINION, TO MEET FIELD CONDITIONS AND REQUIREMENTS.

MATERIALS

CRUSHED CONCRETE MUST BE PRODUCED FROM A SOURCE APPROVED BY FLORIDA DEPARTMENT OF TRANSPORTATION OR THE COUNTY ENGINEER. THE SUPPLIER SHALL HAVE DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) PERMIT REQUIREMENTS SECTION 62-700.230 OR BE QUALIFIED AS A CLEAN DEBRIS SOURCE UNDER DEP RULES. THE RECLAIMED CONCRETE AGGREGATE BASE SHALL CONSIST OF CRUSHED CONCRETE MATERIAL DERIVED FROM THE CRUSHING OF HARD PORTLAND CEMENT CONCRETE.

COMPOSITION

BASE MATERIAL SHALL CONFORM TO THE FOLLOWING GRADATION REQUIREMENTS:

SIEVE SIZE	PERCENT BY WEIGHT PASSING
2 INCH	100
3/4 INCH	65 TO 95
3/8 INCH	40 TO 85
No. 4	25 TO 65
No. 10	20 TO 50
No. 50	5 TO 25
No. 200	0 TO 10

BASE MATERIAL SHALL CONFORM TO THE FOLLOWING PLASTICITY REQUIREMENTS:

CRUSHED CONCRETE BASE SHALL NOT CONTAIN PLASTIC SOILS SUCH THAT THE No. 40 SIEVE MATERIAL SHALL BE NON-PLASTIC.

LIQUID LIMIT (AS DETERMINED BY AASHTO 790) (LESS THAN 25) PER MATERIAL TYPE

THE FINISHED IN PLACE CRUSHED CONCRETE BASE UNIFORMITY BEARING RATIO SHALL HAVE A MINIMUM (LBR) OF 350.

CRUSHED CONCRETE BASE SHALL BE FREE OF ALL MATERIALS THAT FALL UNDER THE CATEGORY OF SOLID WASTE OR HAZARDOUS MATERIALS AS DEFINED BY THE STATE OR LOCAL JURISDICTION AND SHALL MEET ALL DEP PERMIT REQUIREMENTS WHICH PERTAIN TO CONSTRUCTION, DEMOLITION AND RECYCLING OF THESE MATERIALS. CRUSHED CONCRETE BASE SHALL BE ASPHESITIC FREE. THE FOLLOWING LIMITS SHALL NOT BE EXCEEDED:

BITUMINOUS CONCRETE	0.1% BY WEIGHT
BRICKS	1% BY WEIGHT
WOOD AND OTHER ORGANIC SUBSTANCES	0.5% BY WEIGHT
HEAVY METALS (EXCEPT LEAD)	0.5% BY WEIGHT
LEAD	5 PARTS PER MILLION
REINFORCED STEEL AND WELDED WIRE FABRIC	0.2% BY WEIGHT
PLASTER AND GYPSUM BOARD	0.1% BY WEIGHT

THE MATERIAL FOR CRUSHED CONCRETE BASE SHALL CONSIST ONLY OF CRUSHED CONCRETE PAVEMENT AND SUCH ADDITIVE MATERIAL AS MAY BE APPROVED BY THE COUNTY ENGINEER FOR THE PURPOSE OF FACILITATING CONSTRUCTION AND ACHIEVING THE DESIRED CHARACTERISTICS OF THE FINISHED IN-PLACE PRODUCT. APPROVAL FROM THE COUNTY ENGINEER IS REQUIRED BEFORE PLACING MATERIAL FROM MORE THAN ONE SOURCE. ONCE APPROVED, A CHANGE IN THE SOURCE OF BASE MATERIAL SHALL REQUIRE ADDITIONAL ACCEPTANCE TESTING. THE MATERIAL SHALL NOT CONTAIN LUMPS, BALLS OR POCKETS OF SAND OR CLAY MATERIAL IN SIZE OR QUANTITY SUFFICIENT TO BE DETRIMENTAL TO THE PROPER BONDING, FINISHING, STRENGTH OF THE CONCRETE BASE. EXISTING BASE IS TO BE REMOVED TO CONSTRUCT THE NEW BASE.

INSPECTION

SUBGRADE AND BASE INSPECTIONS SHALL BE CONDUCTED BY THE ENGINEER OF RECORD AND THE COUNTY INSPECTOR PRIOR TO SURFACE COURSE CONSTRUCTION.

NOTE: NO DEVIATIONS TO THIS DETAIL WILL BE PERMITTED UNLESS APPROVED BY THE COUNTY ENGINEER. ANY PROPOSED ALTERATIONS SHALL BE CLEARLY IDENTIFIED AND HIGHLIGHTED ON DETAIL.

PASCO COUNTY ENGINEERING SERVICES DESIGN STANDARDS	APPROVED BY	BCC APPROVAL	REVISED	1 of 2
PASCO COUNTY ENGINEERING SERVICES DESIGN STANDARDS	APPROVED BY	BCC APPROVAL	REVISED	104

EQUIPMENT, PLACEMENT AND SPREADING OF MATERIAL

USE MECHANICAL ROCK SPREADERS, EQUIPPED WITH A DEVICE THAT STRIKES OFF THE ROCK UNIFORMLY TO LAYING THICKNESS AND CAPABLE OF PRODUCING EVEN DISTRIBUTION. FOR ROADWAY WIDTHS OF 20 FEET OR LESS, CROSSOVERS, INTERSECTIONS, RAMP AREAS OR WHERE THE USE OF A MECHANICAL SPREADER IS NOT PRACTICABLE, THE CONTRACTOR MAY SPREAD THE CRUSHED CONCRETE BASE USING BUILDERS OR BLADE GRADERS. TRANSPORT CRUSHED CONCRETE TO THE POINT OF USE, OVER THE BASE PREVIOUSLY PLACED, AND DUMP IT ON THE END OF THE PRECEDING SPREAD. HAULING ON SUBGRADE TO DUMP CRUSHED CONCRETE BASE WILL BE PERMITTED ONLY WHEN, IN THE ENGINEER'S OPINION, THESE OPERATIONS WILL NOT BE DETRIMENTAL TO THE BASE AND SUBGRADE.

CRUSHED CONCRETE SHALL BE SPREAD UNIFORMLY WITHOUT SEGREGATION OF FINE OR COARSE MATERIALS. SEGREGATED AREAS SHALL BE REPLACED WITH PROPERLY GRADED CRUSHED CONCRETE AFTER REMOVAL.

THE MINIMUM THICKNESS OF THE CRUSHED CONCRETE BASE SHALL BE INDICATED ON THE PLANS. WHEN THE SPECIFIED COMPACTED THICKNESS OF THE CRUSHED CONCRETE BASE IS GREATER THAN SIX INCHES, CONSTRUCT THE BASE IN MULTIPLE COURSES OF EQUAL THICKNESS. INDIVIDUAL COURSES SHALL NOT BE LESS THAN THREE INCHES. PLACE CRUSHED CONCRETE MATERIAL TO ENSURE THE TOTAL THICKNESS SINGLE SOURCE INTEGRITY AT ANY STATION LOCATION OF THE BASE.

COMPACTING, FINISHING AND TESTING REQUIREMENTS

AFTER SPREADING IS COMPLETED THE CRUSHED CONCRETE SHALL BE UNIFORMLY COMPACTED, WITH WATER BEING ADDED AS REQUIRED TO A DENSITY OF NOT LESS THAN ONE HUNDRED PERCENT (100%) OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180. DURING FINAL COMPACTATION OPERATIONS, IF THE BLDING OF ANY AREAS IS NECESSARY TO OBTAIN THE TRUE GRADE AND CROSS SECTION, FREE OF SCABS AND LAMINATIONS, THE COMPACTING OPERATIONS FOR SUCH AREAS SHALL BE COMPLETED PRIOR TO THE PERFORMANCE OF DENSITY TESTS ON THE FINISHED BASE.

MULTIPLE COURSE BASE. CLEAN THE FIRST COURSE OF FOREIGN MATERIAL, THEN BLADE AND BRING IT TO A SURFACE CROSS SECTION APPROXIMATELY PARALLEL TO THE FINISHED BASE. BEFORE SPREADING ANY MATERIAL FOR THE UPPER COURSES, OBTAIN DENSITY TESTS FOR THE LOWER COURSES TO DETERMINE THAT THE REQUIRED COMPACTATION (NOT LESS THAN ONE HUNDRED PERCENT (100%) OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180) HAS BEEN OBTAINED. AFTER SPREADING THE CRUSHED CONCRETE FOR THE TOP COURSE, FINISH AND SHAPE ITS SURFACE TO PRODUCE THE REQUIRED GRADE AND CROSS-SECTION, FREE OF SCABS AND LAMINATIONS, AFTER COMPACTION.

THE MINIMUM DENSITY THAT WILL BE ACCEPTED AT ANY LOCATION OUTSIDE THE TRAVELED ROADWAY (SUCH AS INTERSECTIONS, CROSSOVERS, TURNOUTS, ETC.) SHALL BE 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.

TESTING OF BASE COURSE

THE MINIMUM FREQUENCY OF SAMPLING AND TESTING OF CRUSHED CONCRETE MATERIAL, LAB DENSITY, FIELD DENSITY AND THICKNESS SHALL ADHERE TO THE FREQUENCY OF TESTING FOR LIMESTONE BASE AS SET FORTH IN THE MOST CURRENT EDITION OF "PASCO COUNTY ENGINEERING SERVICES DEPARTMENT SPECIFICATIONS FOR CONSTRUCTION OF ROADS, STORM DRAINAGE AND UTILITIES". ONE PLANT MIX DESIGN, ONE PLANT GRADATION TEST FOR SIEVE ANALYSIS OF FINE AND COARSE AGGREGATES (AASHTO T-27) (M-107) INCLUDING A PLASTICITY INDEX (PI-100) (AASHTO T-90) FROM THE APPROVED SOURCE SHALL BE SUBMITTED AT ONE PER DAY OR CHANGE OF MATERIAL. ONE ROADWAY FIELD TEST FOR SIEVE ANALYSIS OF FINE AND COARSE AGGREGATES (ASTM C-136) SHALL BE SUBMITTED PER 500 FEET OF ROAD PER DAY PER MIX DESIGN; MINIMUM ONE PER ROAD.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TESTING PERFORMED IN CONNECTION WITH CONSTRUCTION OF THE BASE.

CORRECTION OF DEFECTS

ALL SEGREGATED AREAS OF FINE OR COARSE CRUSHED CONCRETE SHALL BE REMOVED AND REPLACED WITH PROPERLY GRADED RECLAIMED CONCRETE AGGREGATE BASE MATERIAL. ALL DEFECTS IN MATERIALS AND CONSTRUCTION SHALL BE CORRECTED BY THE CONTRACTOR, AT HIS EXPENSE, AND TO THE SATISFACTION OF THE COUNTY ENGINEER.

PRIMING AND MAINTENANCE

APPLY THE PRIME COAT ONLY WHEN THE BASE MEETS THE SPECIFIED DENSITY REQUIREMENTS AND WHEN THE MOISTURE CONTENT, AT THE TIME OF PRIMING, ENSURE THAT THE BASE IS FIRM, UNFREETING AND IN SUCH CONDITION THAT NO UNEVEN DISTRIBUTION WILL OCCUR. MAINTAIN THE TRUE CROWN AND TEMPLATE, WITH NO RUTTING OR DISTORTION, WHILE APPLYING THE SURFACE COURSE.

EMBANKMENT MATERIAL UNDER CONCRETE PAVEMENT SHALL BE PER FDOT INDEX NO. 305.

PASCO COUNTY TESTING SPECIFICATIONS ON CRUSHED CONCRETE BASE

TESTS FOR BASE THICKNESS, AND DENSITY SHALL BE LOCATED NO MORE THAN THREE HUNDRED (300) FEET APART AND SHALL BE STAGGERED TO THE LEFT, RIGHT, AND ON THE CENTERLINE OF ROADWAY. THERE SHALL BE NO LESS THAN ONE (1) TEST PER STREET, BEARING VALUE, GRADATION AND FIELD TEST FOR SIEVE ANALYSIS OF FINE AND COARSE AGGREGATES (ASTM C-136) SHALL BE NO MORE THAN FIVE HUNDRED (500) FEET.

EXAMPLE: A SIX HUNDRED FEET ROAD WOULD REQUIRE TWO FIELD LAB AND GRADATION TESTS, THREE FIELD DENSITY AND THICKNESS TESTS ALONG WITH THE APPROPRIATE LAB TESTING.

NOTE: NO DEVIATIONS TO THIS DETAIL WILL BE PERMITTED UNLESS APPROVED BY THE COUNTY ENGINEER. ANY PROPOSED ALTERATIONS SHALL BE CLEARLY IDENTIFIED AND HIGHLIGHTED ON DETAIL.

PASCO COUNTY ENGINEERING SERVICES DESIGN STANDARDS	APPROVED BY	BCC APPROVAL	REVISED	1 of 2
PASCO COUNTY ENGINEERING SERVICES DESIGN STANDARDS	APPROVED BY	BCC APPROVAL	REVISED	104

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CHECKED	NLL/AGK
DATE	LFK

THE SIGNATURE OF THE QUALITY CONTROL OFFICER IN THIS SPACE INDICATES THAT ALL REQUIRED PERMITS HAVE BEEN OBTAINED AND THE CONSTRUCTION IS AUTHORIZED TO COMMENCE.

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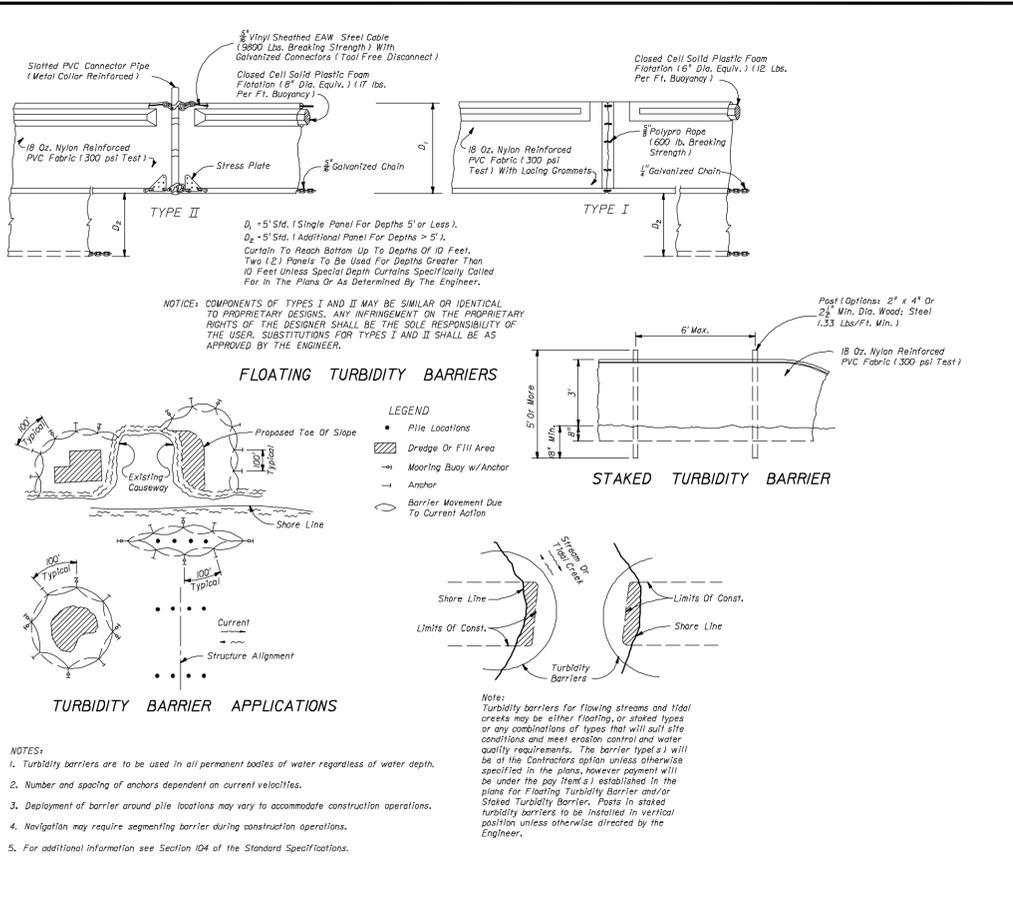
4921 Memorial Highway
One Memorial Center, Suite 200
Tampa, Florida 33634
Phone 813 880-8881
Fax 813 880-8882
www.kingengineering.com
Engineering License #2610

CYPRESS CREEK ICE HOCKEY
FOR
ZMITCH, LLC
4939 NEW PROVIDENCE AVE.
TAMPA, FL 33629

TYPICAL SECTIONS AND DETAILS

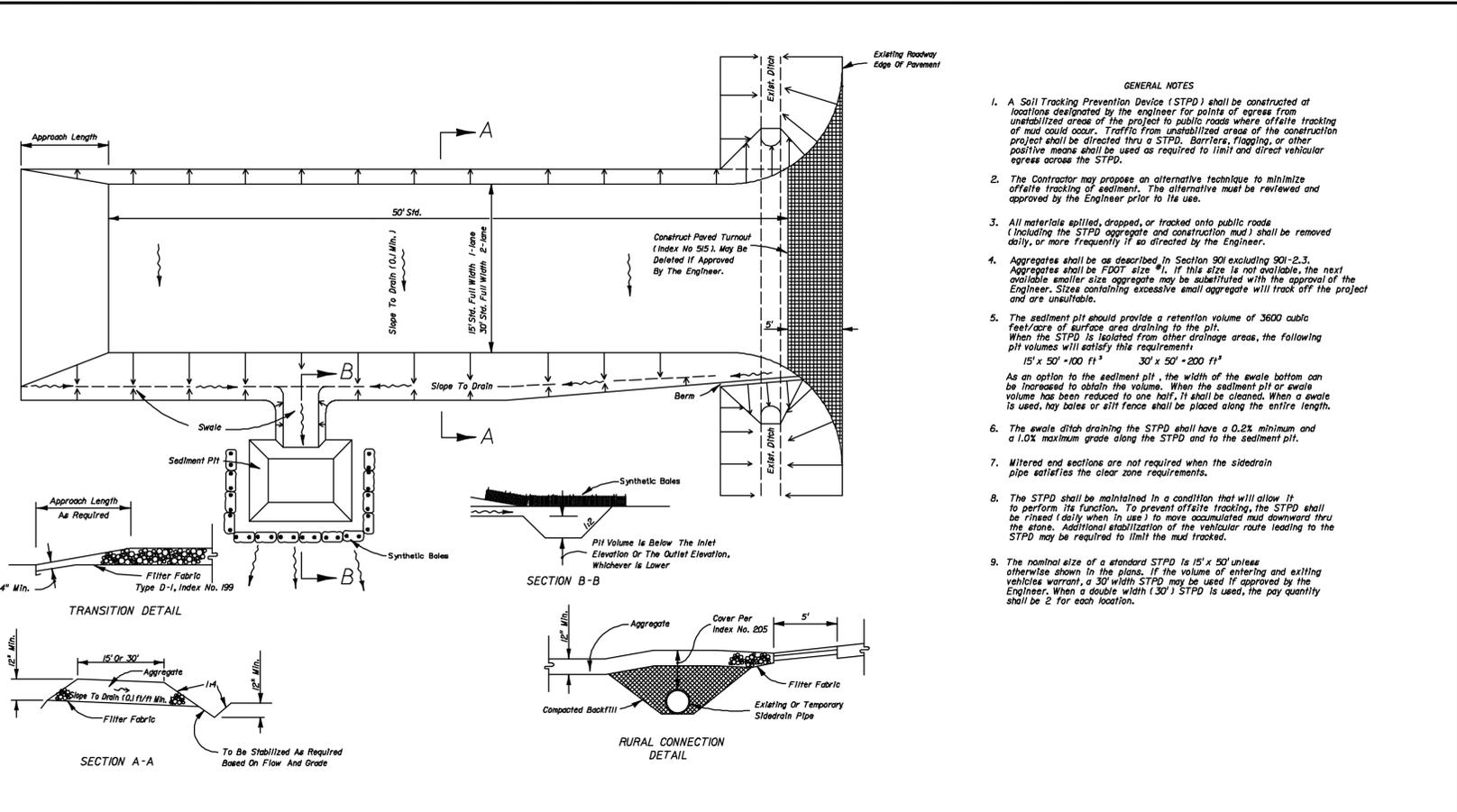
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3.	11/20/2014	QC REVIEW & GEOTECHNICAL RECOMMENDATIONS FOR FIRE LANE AND PERVIOUS PAVEMENT	NLL
2.	11/04/2014	UPDATED PER GEOTECHNICAL RECOMMENDATIONS	NLL
1.	10/16/2014	PASCO COUNTY & SWFWMD COMMENTS	NLL

JOB NO.	4947-000-000	SHEET NO.	2 of 2
DATE	2/6/2014	SCALE	AS SHOWN
PASCO COUNTY RESUBMITTAL			
DECEMBER 1, 2014			



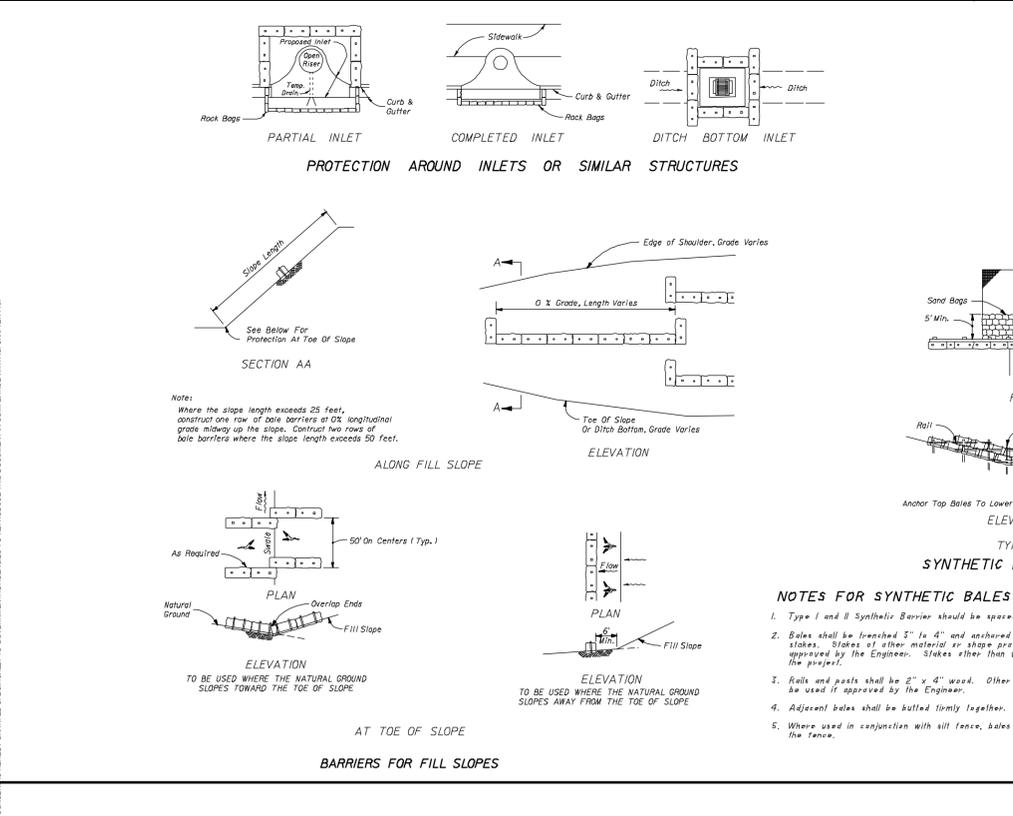
FLOATING TURBIDITY BARRIERS

1



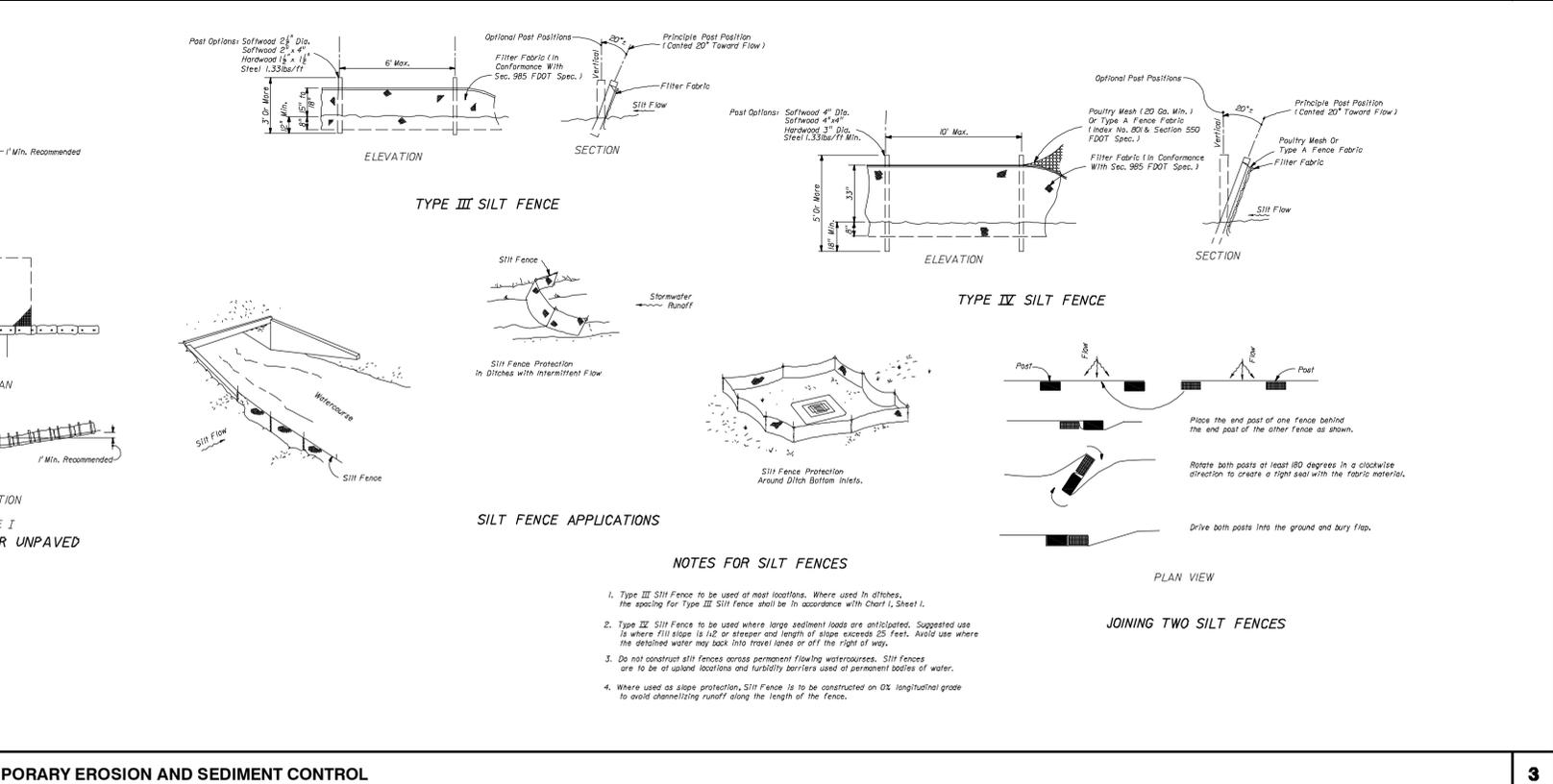
SOIL TRACKING PREVENTION DEVICE - TYPE A

2



FLOATING TURBIDITY BARRIERS

1



SOIL TRACKING PREVENTION DEVICE - TYPE A

2

DESIGNED: NLL
 DRAWN: DEU
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CYPRESS CREEK ICE HOCKEY
 FOR
 ZMITCH, LLC
 4939 NEW PROVIDENCE AVE.
 TAMPA, FL 33629

EROSION CONTROL DETAILS

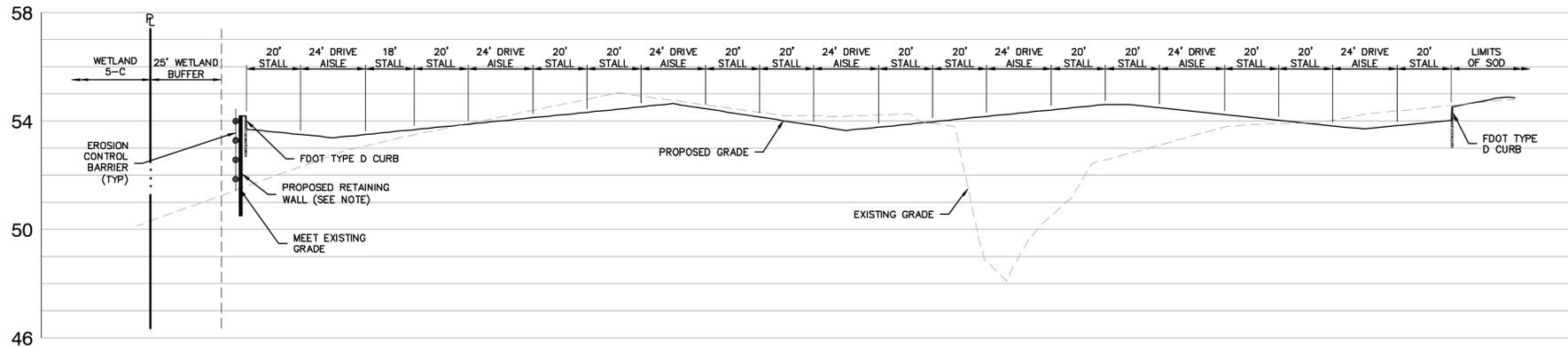
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2.	11/04/2014	UPDATED PER GEOTECHNICAL RECOMMENDATIONS	NLL
1.	10/16/2014	PASCO COUNTY & SFWMD COMMENTS	NLL

JOB NO.: 4947-000-000
 DATE: 2/6/2014
 SCALE: AS SHOWN

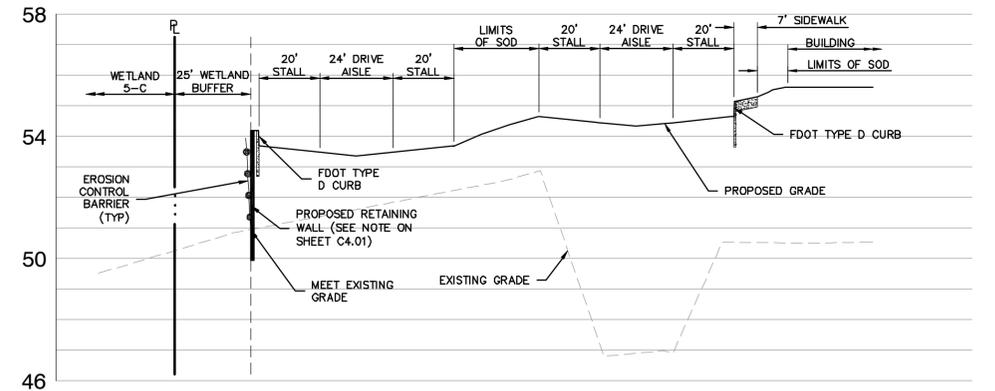
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 DECEMBER 1, 2014

TEMPORARY EROSION AND SEDIMENT CONTROL

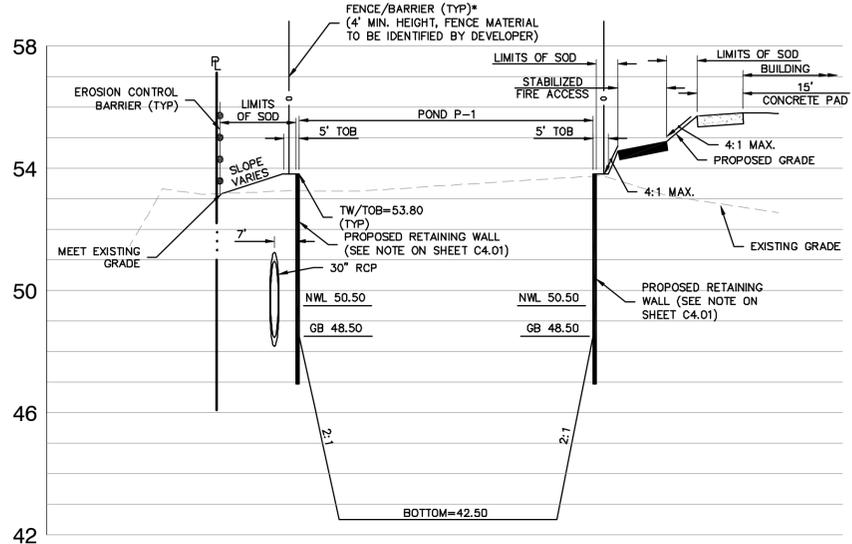
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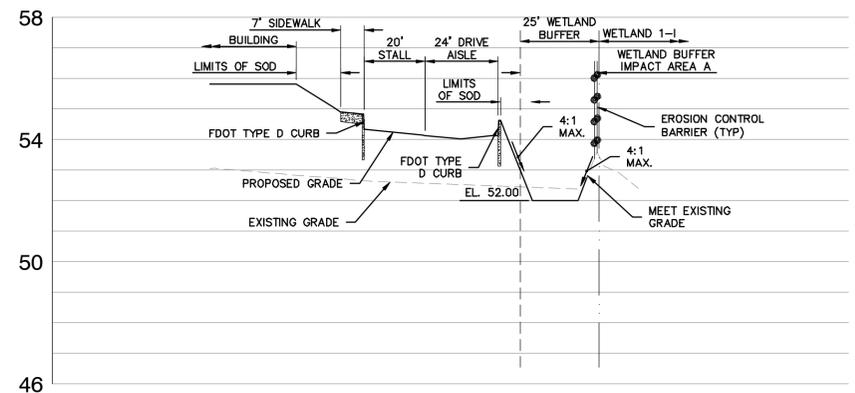
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1"= 3' VERT.



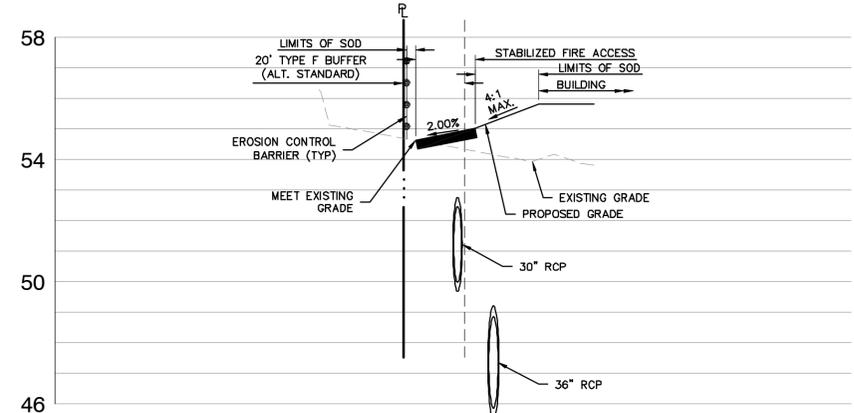
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1"= 3' VERT.



SECTION C
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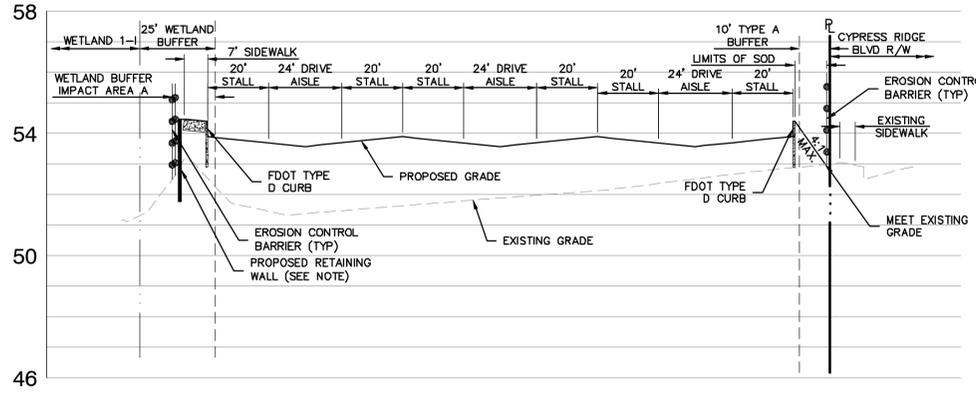


SECTION D
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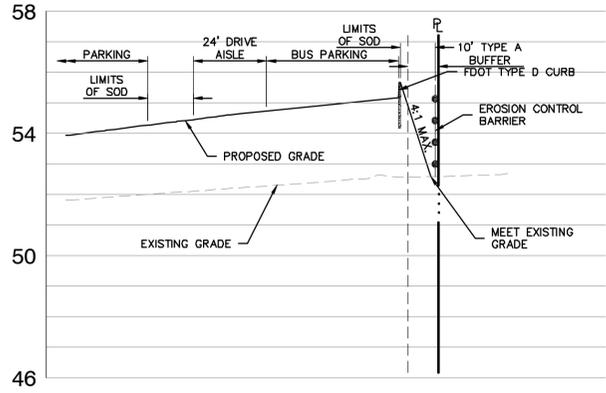


SECTION E
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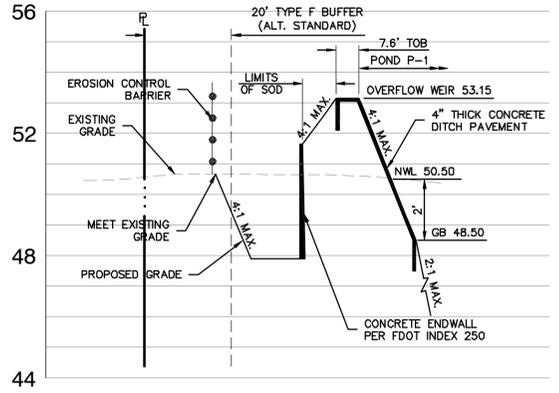
* LOCATION OF FENCE AT OR BEHIND WALL TO BE DESIGNED BY STRUCTURAL ENGINEER



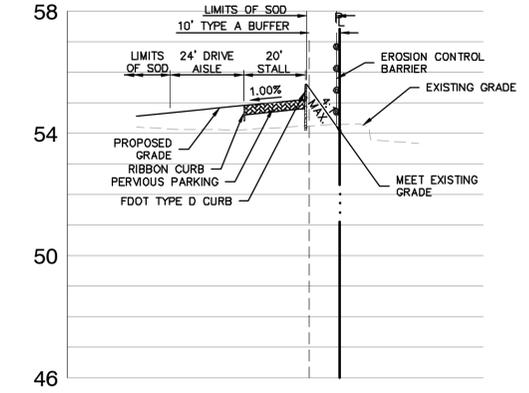
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1"= 3' VERT.



SECTION G
SCALE: 1"=30' HORZ.
1"= 3' VERT.



SECTION H
SCALE: 1"=30' HORZ.
1"= 3' VERT.



SECTION I
SCALE: 1"=30' HORZ.
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DATE	LFK

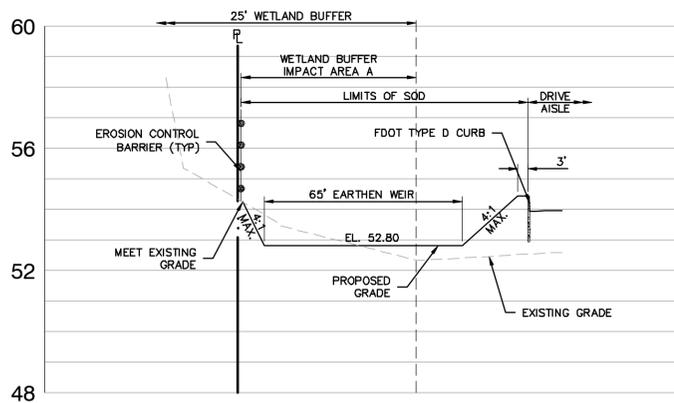
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 Tampa, Florida 33634
 Phone 813 880-8881
 Fax 813 880-8882
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CYPRESS CREEK ICE HOCKEY
 FOR
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 4939 NEW PROVIDENCE AVE.
 TAMPA, FL 33629

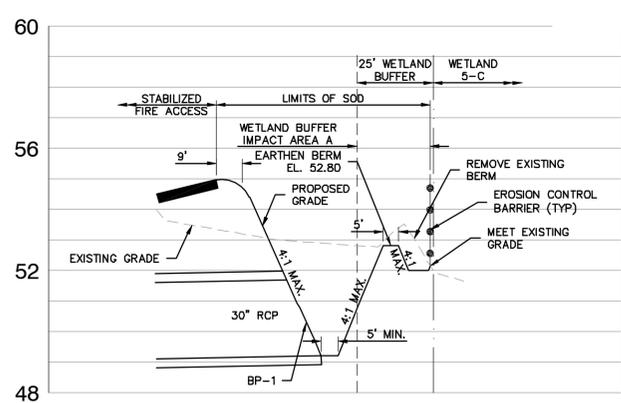
GRADING DETAILS

NO.	DATE	DESCRIPTION	APP'D BY
3.	11/20/2014	GC REVIEW & GEOTECHNICAL RECOMMENDATIONS FOR FIRE LANE AND PERVIOUS PAVEMENT	NLL
2.	11/04/2014	UPDATED PER GEOTECHNICAL RECOMMENDATIONS	NLL
1.	10/16/2014	PASCO COUNTY & SWFWMD COMMENTS	NLL

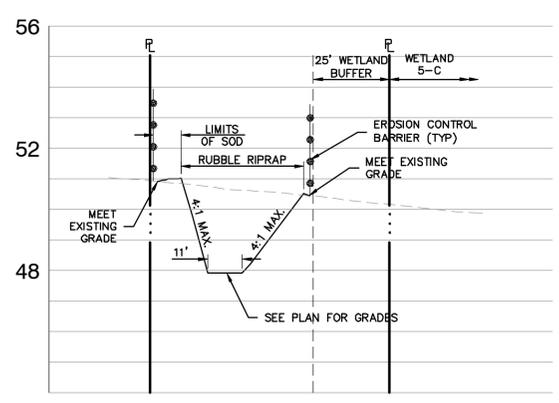
JOB NO.	4947-000-000	SHEET NO.	C9.01	
DATE	2/6/2014	SCALE		AS SHOWN
PASCO COUNTY RESUBMITTAL			DATE	DECEMBER 1, 2014



SECTION J
 SCALE: 1"=30' HORZ.
 1"= 3' VERT.



SECTION K
 SCALE: 1"=30' HORZ.
 1"= 3' VERT.



SECTION L
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 1"= 3' VERT.

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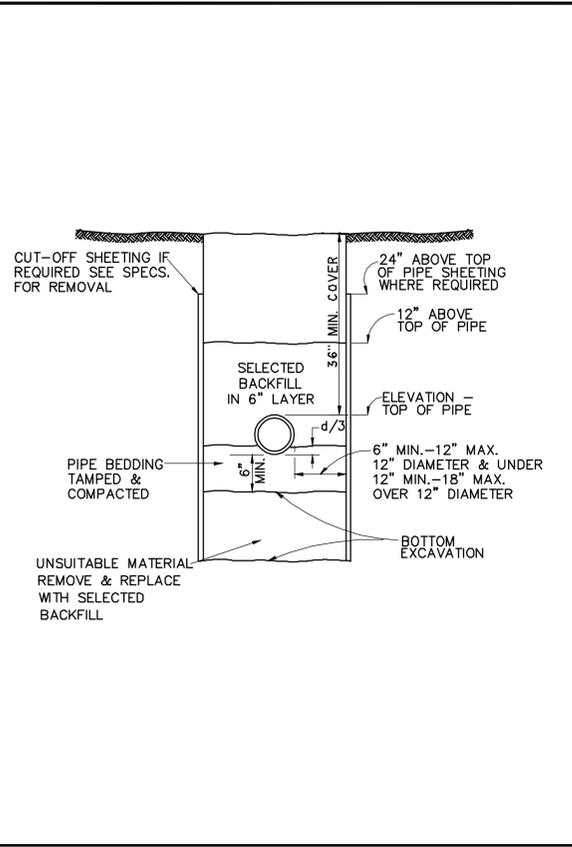
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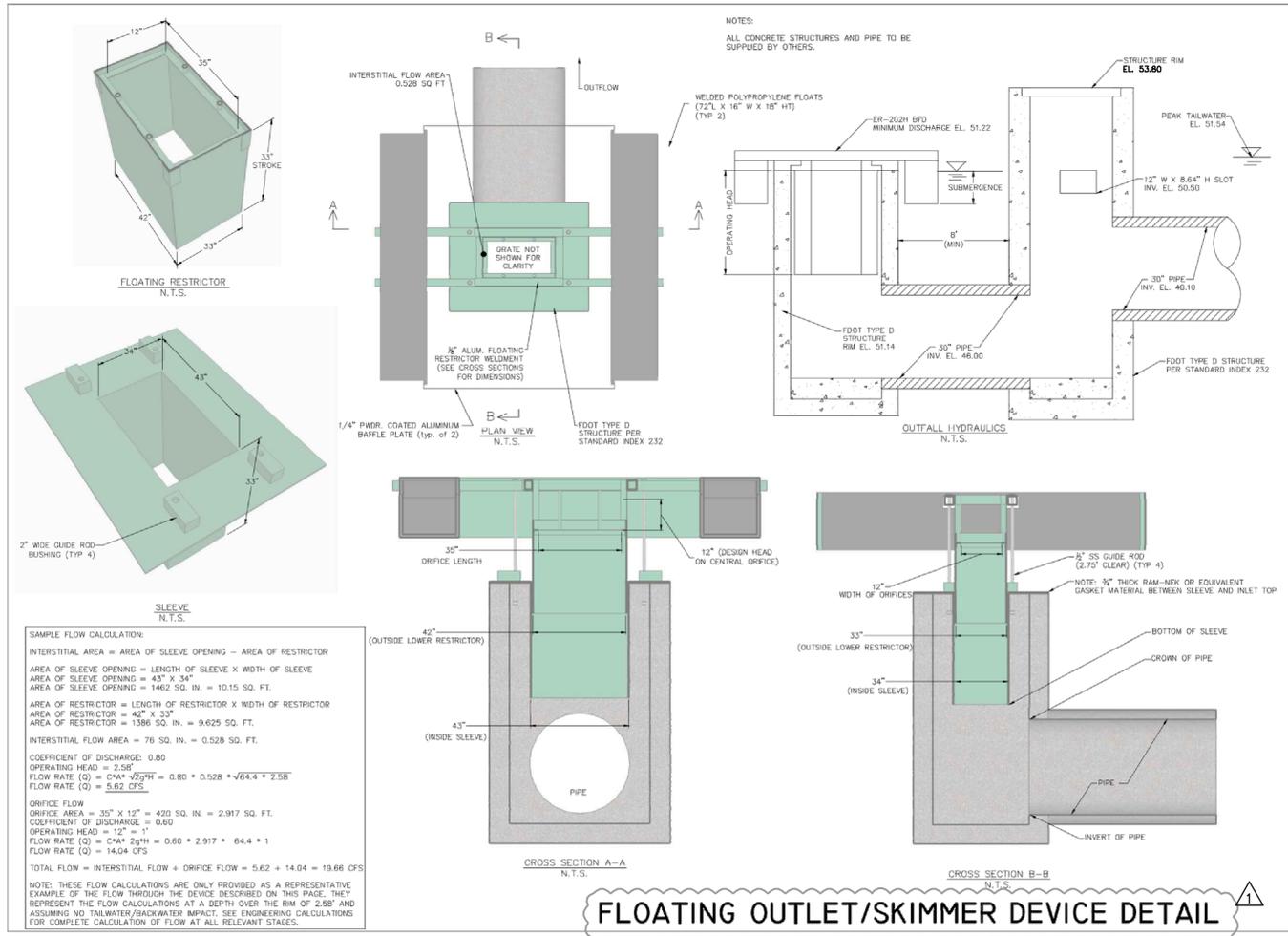
GRADING DETAILS

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1.	10/16/2014	PASCO COUNTY & SWFWMD COMMENTS	NLL

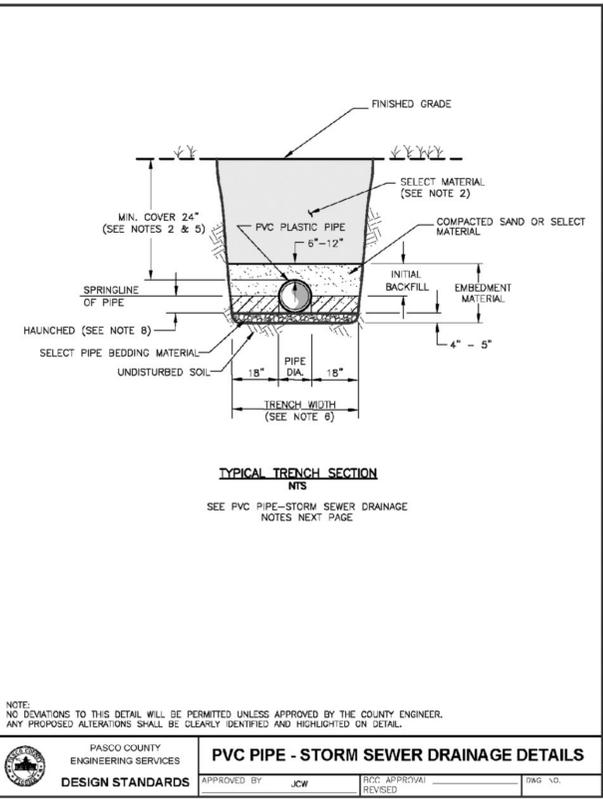
JOB NO. 4947-000-000
 DATE: 2/6/2014
 SCALE: AS SHOWN
C9.02
 PASCO COUNTY RESUBMITTAL
 DECEMBER 1, 2014



TYPICAL TRENCH SECTION



FLOATING OUTLET/SKIMMER DEVICE DETAIL



PVC PIPE - STORM SEWER DRAINAGE DETAILS

NOTES:

- PVC PIPE MAY BE UTILIZED AS SUBSTITUTE FOR REINFORCED CONCRETE STORM PIPE ONLY IF APPROVED BY THE COUNTY DURING CONSTRUCTION PLAN APPROVAL OR AS AMENDED THEREAFTER. THE PIPE SHALL BE IDENTIFIED BY FOOT WITHIN THE LATEST EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS AN ALLOWABLE PIPE. THE INSTALLATION SHALL CONFORM TO THE MOST SEVERE SPECIFICATIONS OF FDOT, PASCO COUNTY, AND MANUFACTURER.
- MINIMUM COVER SHALL BE TWO (2) FEET. MAXIMUM COVER SHALL BE TEN (10) FEET. BACKFILL MATERIAL SHALL BE A-3 OR BETTER, COMPACTED TO A MINIMUM 95% T-160 WITHIN ROAD RIGHT-OF-WAYS.
- THE DESIGN ENGINEER SHALL SUBMIT FLOATATION CALCULATIONS ASSUMING THE WATER TABLE IS AT THE GROUND SURFACE.
- THE DESIGN ENGINEER SHALL INCLUDE SPECIFICATIONS AND DETAILS TO PROTECT THE PIPE DURING CONSTRUCTION.
- A MINIMUM ONE (1) FOOT OF CLEARANCE BETWEEN THE BOTTOM OF THE STABILIZED SUBGRADE AND THE TOP OF THE PIPE SHALL BE PROVIDED.
- THE MINIMUM ALLOWABLE TRENCH WIDTH MEASURED AT THE TOP OF THE PIPE SHALL BE THIRTY-SIX (36) INCHES PLUS THE PIPE DIAMETER.
- PIPE SHALL BE EITHER BEDDED ON UNDISTURBED SOIL OR GRAVEL IF OVER EXCAVATED.
- INITIAL BACKFILL SHALL BE PLACED TO THE SPRINGLINE OF PIPE AND WORKED BY SLICING OR PUSHING THE MATERIAL OF FILL AREA UNDER THE SPRINGLINE. A VIBRATORY PLATE TYPE COMPACTOR SHALL COMPACT THE INITIAL BACKFILL TO PROVIDE NON-YIELDING LATERAL AND VERTICAL SUPPORT.
- TRENCH COMPACTION TESTING SHALL CONFORM TO COUNTY STANDARDS.
- A MINIMUM THIRTY (30) DAYS SHALL ELAPSE BETWEEN PLACEMENT OF PIPE AND BASE MATERIAL PRIOR TO PERFORMING A REQUIRED MANDREL TEST. THE SIZE OF THE MANDREL SHALL BE 95% OF THE INSIDE PIPE DIAMETER.
- ALL JOINTS SHALL BE PRESSURE TESTED AT 2.5 PSI GAUGE PRESSURE PLUS 0.433 PSI PER FOOT OF DEPTH BELOW THE WATER TABLE AT TIME OF TEST. NO LEAKAGE ALLOWED.
- ALL PIPES SHALL BE VIDEO TAPED RE-INSPECTED AFTER ALL ROAD AND UTILITY CONSTRUCTION IS COMPLETED, BY THE CONTRACTOR.
- WHEN PLASTIC PIPE IS USED FOR DRAINAGE THE ASPHALT CONCRETE WEARING SURFACE SHALL BE PLACED AT THE END OF ALL ROAD, DRAINAGE, AND UTILITY CONSTRUCTION.

NOTE:
NO DEVIATIONS TO THIS DETAIL WILL BE PERMITTED UNLESS APPROVED BY THE COUNTY ENGINEER. ANY PROPOSED ALTERATIONS SHALL BE CLEARLY IDENTIFIED AND HIGHLIGHTED ON DETAIL.

PASCO COUNTY ENGINEERING SERVICES
DESIGN STANDARDS
APPROVED BY: JCW
DATE: 10/07/2014
DWG. NO. 1401-0001

PVC PIPE - STORM SEWER DRAINAGE NOTES

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THIRSTY DUCK, LP.
 2941 CYPRESS CREEK BLVD., SUITE 103
 TAMPA, FL 33629
 TEL: (727) 376-2400 FAX: (727) 376-2411
 WWW.THIRSTYDUCK.COM

CYPRESS CREEK ICE HOCKEY
 THE BRIGHT FLOW DEVICE SHOWN HEREON IS COVERED UNDER U.S. PATENT NUMBER 7,912,471 ISSUED AND SUPPLIED BY THIRSTY DUCK, LP.

DRAWN: JCB
 CHECKED: JCB
 DATE: 10/07/2014
 JOB: 1401-0001
 SHEET: ER-1

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 One Memorial Center, Suite 300
 Tampa, Florida 33634
 Phone 813 880-8881
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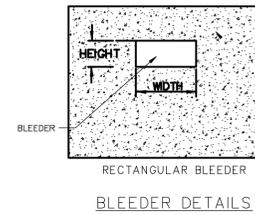
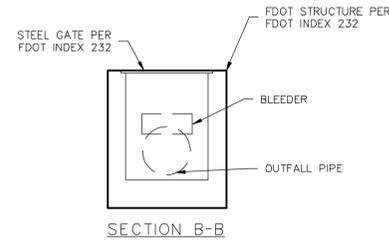
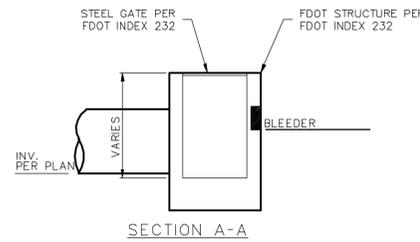
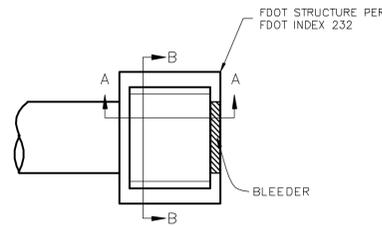
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 FOR
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STORM SEWER DETAILS

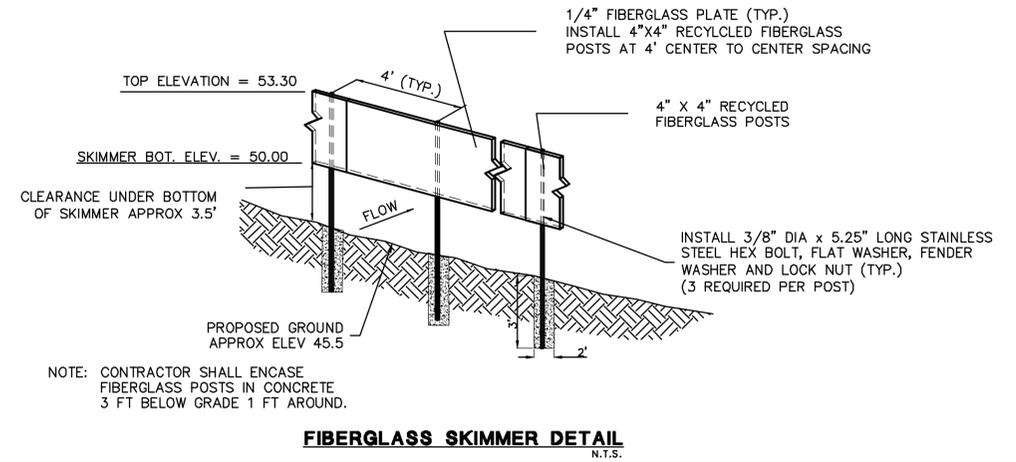
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3.	11/20/2014	QC REVIEW & GEOTECHNICAL RECOMMENDATIONS FOR PINE LANE AND PERVIOUS PAVEMENT	NLL
2.	11/04/2014	UPDATED PER GEOTECHNICAL RECOMMENDATIONS	NLL
1.	10/16/2014	PASCO COUNTY & S/W/M/F COMMENTS	NLL

JOB NO. 4947-000-000
 DATE: 2/6/2014
 SCALE: AS SHOWN
 SHEET NO. C10.01
 PASCO COUNTY RESUBMITTAL
 DECEMBER 1, 2014

Control Structure	FDOT Inlet Type	Grate/Top Elev. (FT)	Bottom Structure Elev. (FT)	Bleeder Type	Bleeder Elev. (FT)	Bleeder Width (IN)	Bleeder Height (IN)	Pipe Size (IN)	Pipe Invert (FT)	Skimmer Required?	Skimmer Attached?
DS P-1	D	53.80	46.10	Rectangular	50.50	12.00	8.64	30	48.10	YES	NO



OUTLET CONTROL STRUCTURES
N.T.S.



FIBERGLASS SKIMMER DETAIL
N.T.S.

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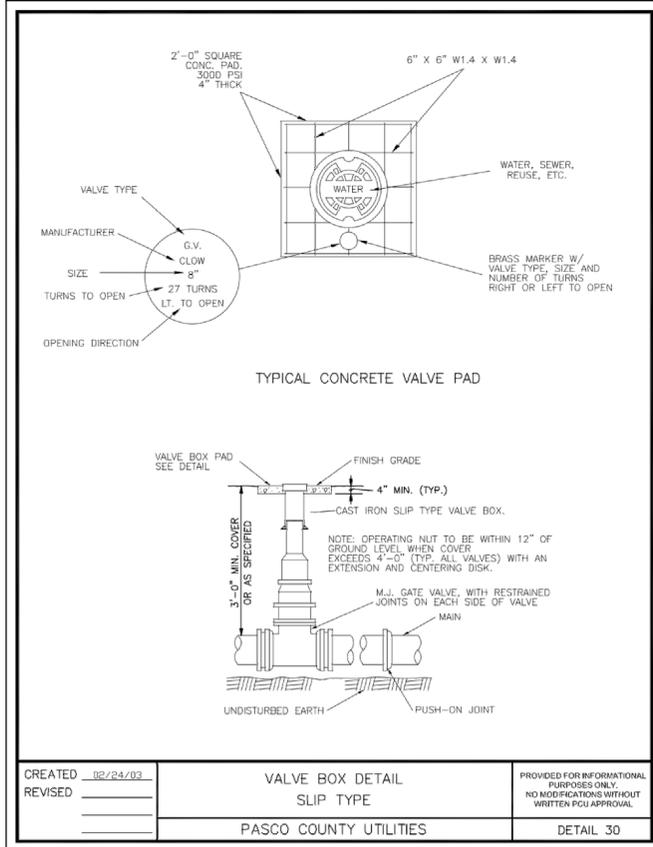
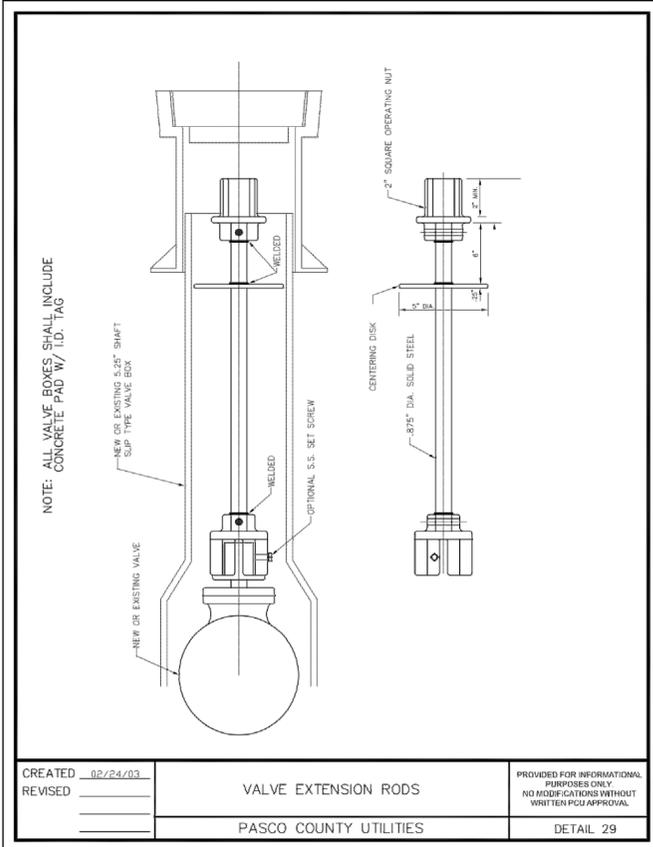
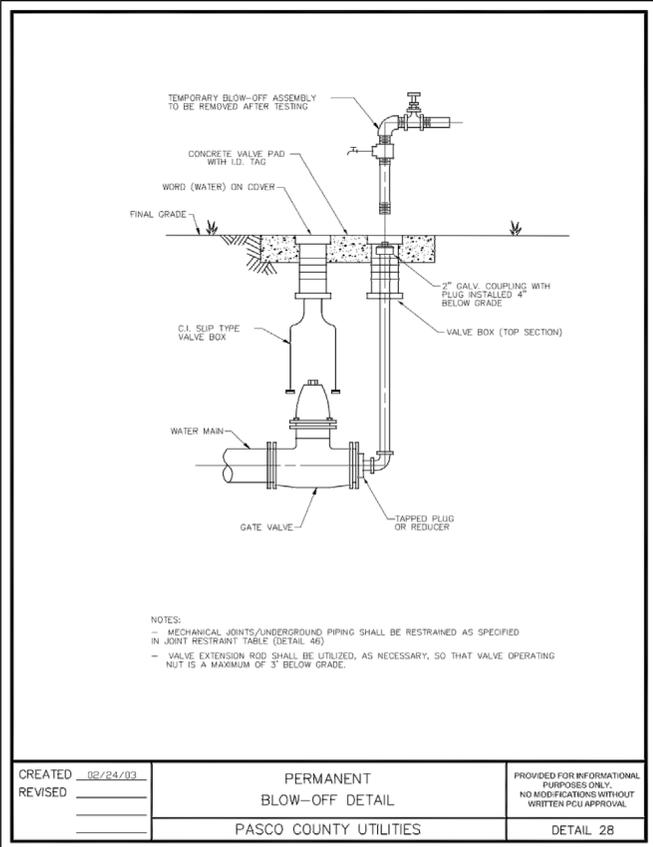
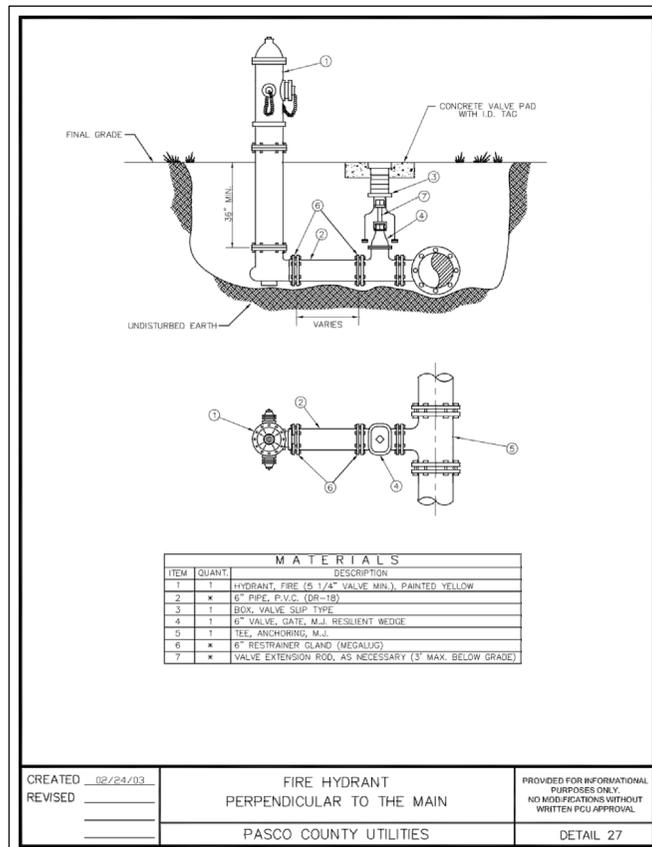
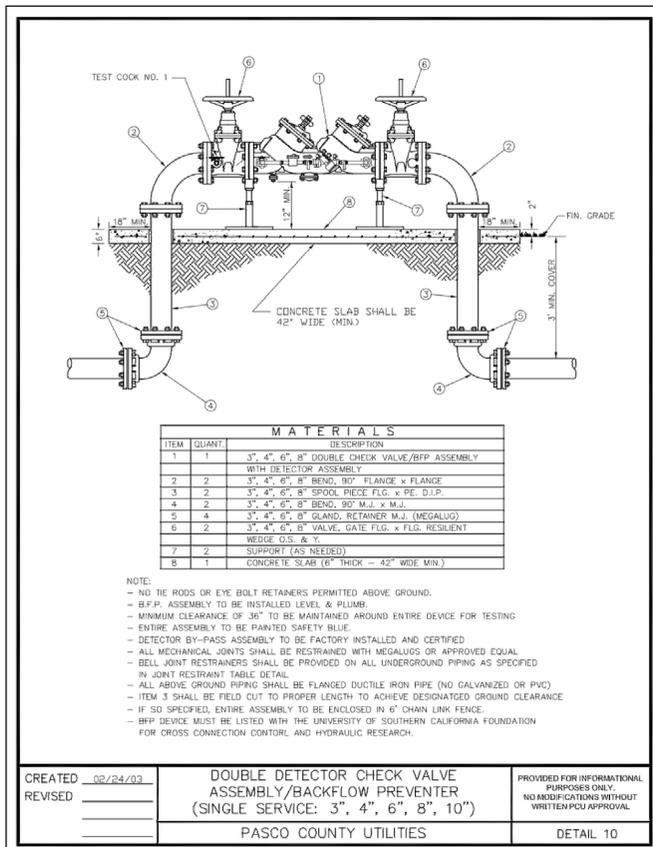
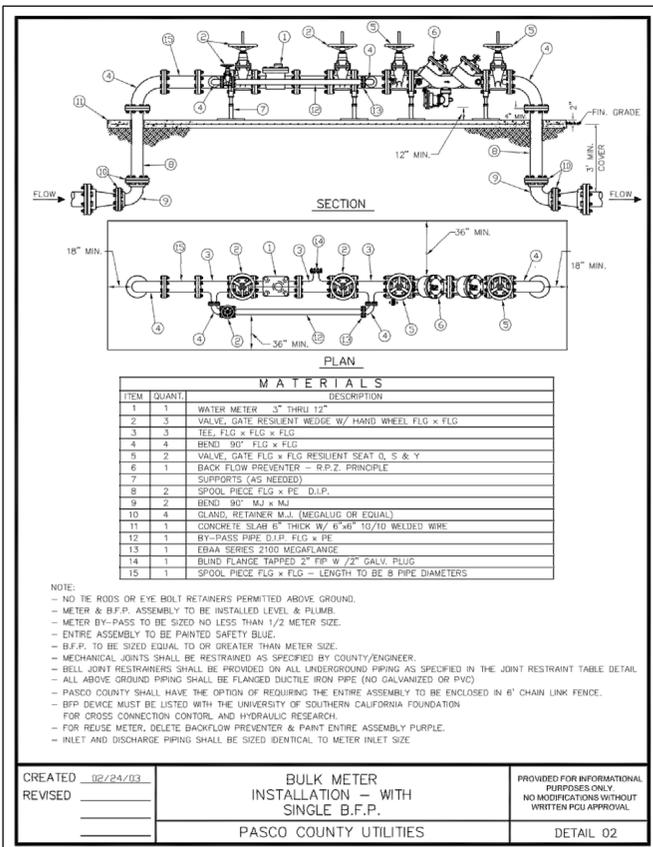
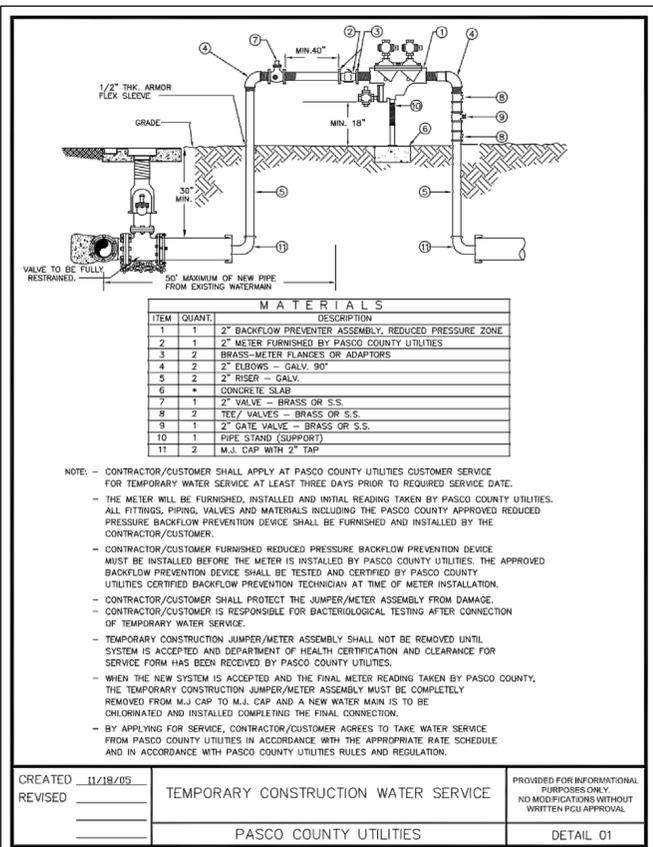
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STORM SEWER DETAILS

NO.	DATE	DESCRIPTION	APP'D BY
3.	11/20/2014	QC REVIEW & GEOTECHNICAL RECOMMENDATIONS FOR FIRE LANE AND PERVIOUS PAVEMENT	NULL
2.	11/04/2014	UPDATED PER GEOTECHNICAL RECOMMENDATIONS	NULL
1.	10/16/2014	PASCO COUNTY & SWFWMD COMMENTS	NULL

JOB NO.	4947-000-000	SHEET NO.	C10.02
DATE	2/6/2014	SCALE	AS SHOWN
PASCO COUNTY RESUBMITTAL DECEMBER 1, 2014			



PIPE RESTRAINT LENGTHS IN FEET COMMON FITTINGS

PIPE SIZE	WATER MAINS - TEST PRESSURE 150 PSI					
	FITTING TYPE					
	11-1/4°	22-1/2°	45°	90°	DEAD END	
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'	
16"	6'	13'	26'	63'	148'	
20"	7'	15'	31'	76'	179'	
24"	9'	17'	36'	87'	208'	

PIPE SIZE	FORCE MAINS - TEST PRESSURE 100 PSI					
	FITTING TYPE					
	11-1/4°	22-1/2°	45°	90°	DEAD END	
4"	1'	3'	6'	13'	30'	
6"	2'	4'	8'	19'	42'	
8"	2'	5'	10'	24'	55'	
10"	3'	6'	12'	29'	66'	
12"	3'	7'	14'	34'	77'	
16"	4'	8'	18'	42'	99'	
20"	5'	10'	21'	50'	119'	
24"	6'	11'	24'	58'	139'	

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 DRAWN: DEU
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 P.C.: LFK

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 TAMPA, FL 33629

WATER DISTRIBUTION DETAILS

JOB NO. 4947-000-000
 DATE: 2/6/2014
 SCALE: AS SHOWN
C11.01

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 DECEMBER 1, 2014

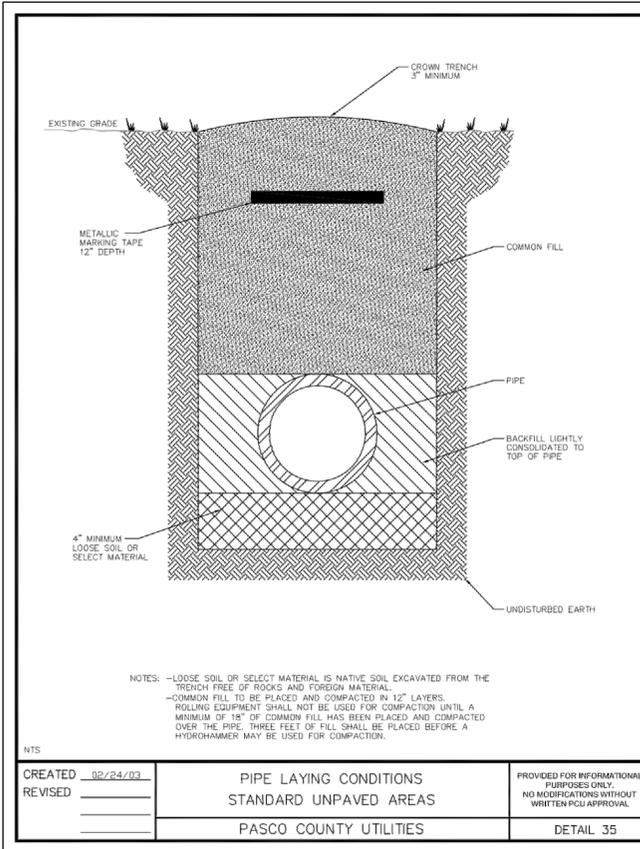
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3.	11/20/2014	QC REVIEW & GEOTECHNICAL RECOMMENDATIONS FOR FIRE LANE AND PERVIOUS PAVEMENT	NLL
2.	11/04/2014	UPDATED PER GEOTECHNICAL RECOMMENDATIONS	NLL
1.	10/16/2014	PASCO COUNTY & S/W/M/F COMMENTS	NLL

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 RESTRAINERS 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



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DRAWN	LLK	
CHECKED	DEU	
IN CHARGE	LLK/AGK	
DATE	LFK	

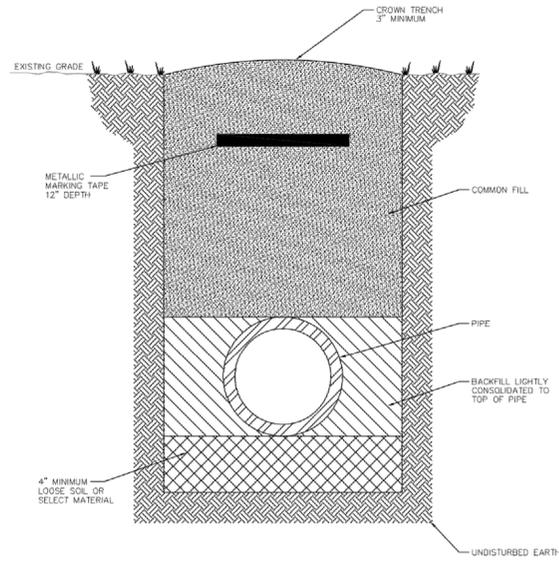
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 Tampa, Florida 33634
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 Fax 813 880-8882
 www.kingengineering.com
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CYPRESS CREEK ICE HOCKEY
 FOR
ZMITCH, LLC
 4939 NEW PROVIDENCE AVE.
 TAMPA, FL 33629

WATER DISTRIBUTION DETAILS

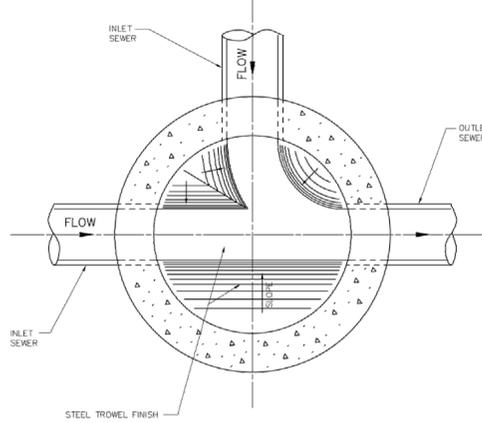
NO.	DATE	DESCRIPTION	APP'D BY
3.	11/20/2014	QC REVIEW & GEOTECHNICAL RECOMMENDATIONS FOR FIRE LANE AND PERVIOUS PAVEMENT	LLK
2.	11/04/2014	UPDATED PER GEOTECHNICAL RECOMMENDATIONS	LLK
1.	10/16/2014	PASCO COUNTY & SWFWMD COMMENTS	LLK

JOB NO.	4947-000-000	SHEET NO.	C11.02
DATE	2/6/2014		
SCALE	AS SHOWN		
PASCO COUNTY RESUBMITTAL DECEMBER 1, 2014			

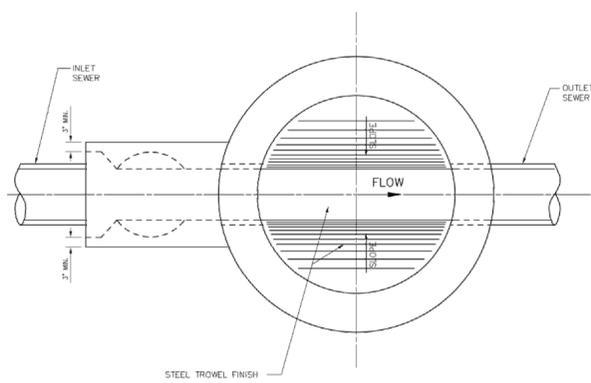


NOTES:
 -LOOSE SOIL OR SELECT MATERIAL IS NATIVE SOIL EXCAVATED FROM THE TRENCH FREE OF ROCKS AND FOREIGN MATERIAL.
 -COMMON FILL TO BE PLACED AND COMPACTED IN 12" LAYERS. ROLLING EQUIPMENT SHALL NOT BE USED FOR COMPACTION UNTIL A MINIMUM OF 18" OF COMMON FILL HAS BEEN PLACED AND COMPACTED OVER THE PIPE. THREE FEET OF FILL SHALL BE PLACED BEFORE A HYDROHAMMER MAY BE USED FOR COMPACTION.

CREATED 02/24/03	PIPE LAYING CONDITIONS	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.
REVISED	STANDARD UNPAVED AREAS	
	PASCO COUNTY UTILITIES	DETAIL 35



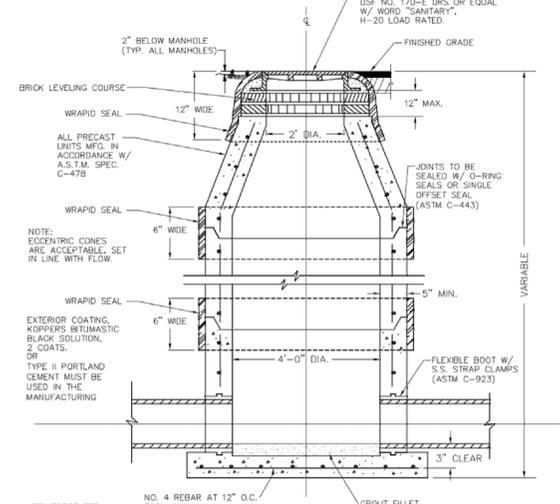
CREATED 02/24/03	STANDARD MANHOLE (BENCH AND INVERTS)	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.
REVISED		
	PASCO COUNTY UTILITIES	DETAIL 39



NOTE:
 DROP MANHOLE TO BE USED WHEN THE DIFFERENCE BETWEEN INVERTS IS 2' OR MORE.

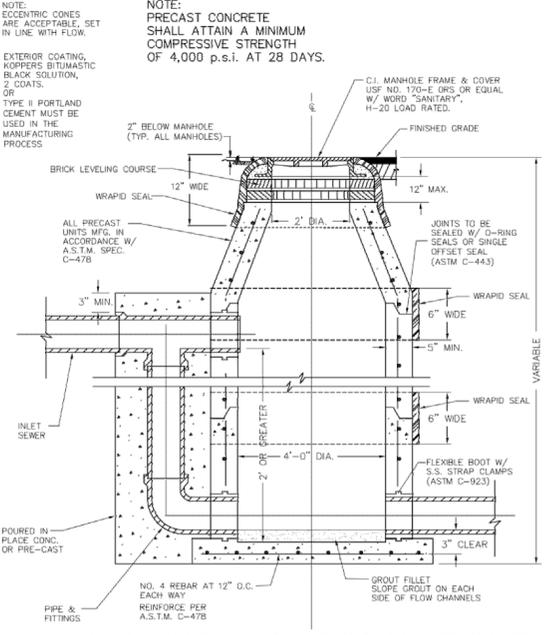
CREATED 02/24/03	DROP MANHOLE (BENCH AND INVERTS)	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.
REVISED		
	PASCO COUNTY UTILITIES	DETAIL 40

NOTE:
 PRECAST CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 4,000 p.s.i. AT 28 DAYS.



NOTE:
 1. WRAPID SEAL MUST BE USED ON ALL JOINTS, CASTINGS AND RISER RINGS; ON ALL JOINTS ON AIR RELEASES, MANHOLES, GREASE/WATER, OIL/WATER SEPARATORS, AND WETWELLS.
 2. WRAPID SEAL MUST BE USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 3. PASCO COUNTY SHALL HAVE THE OPTION OF SPECIFYING THE TYPE OF INTERIOR LINING TO BE INSTALLED FOR EACH INDIVIDUAL MANHOLE.
 4. PASCO COUNTY SHALL HAVE THE OPTION OF REQUIRING A NEGATIVE PRESSURE TEST PER ASTM C-1244.
 5. LIFT HOLES MUST NOT PENETRATE THE WALLS.

CREATED 02/24/03	STANDARD MANHOLE	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.
REVISED		
	PASCO COUNTY UTILITIES	DETAIL 41



NOTE:
 1. WRAPID SEAL MUST BE USED ON ALL JOINTS, CASTINGS AND RISER RINGS; ON ALL JOINTS ON AIR RELEASES, MANHOLES, GREASE/WATER, OIL/WATER SEPARATORS, AND WETWELLS.
 2. WRAPID SEAL MUST BE USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 3. PASCO COUNTY SHALL HAVE THE OPTION OF SPECIFYING THE TYPE OF INTERIOR LINING TO BE INSTALLED FOR EACH INDIVIDUAL MANHOLE.
 4. PASCO COUNTY SHALL HAVE THE OPTION OF REQUIRING A NEGATIVE PRESSURE TEST PER ASTM C-1244.
 5. LIFT HOLES MUST NOT PENETRATE THE WALLS.

CREATED 02/24/03	DROP MANHOLE	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.
REVISED		
	PASCO COUNTY UTILITIES	DETAIL 42

NOTE: DROP MANHOLES SHALL BE PRE-CAST ONLY.

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LFK	

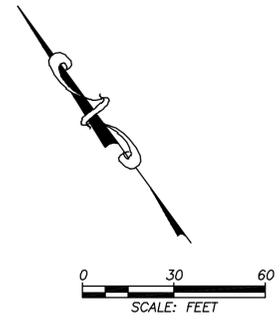
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 FOR
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 TAMPA, FL 33629

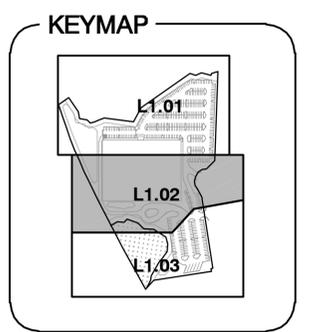
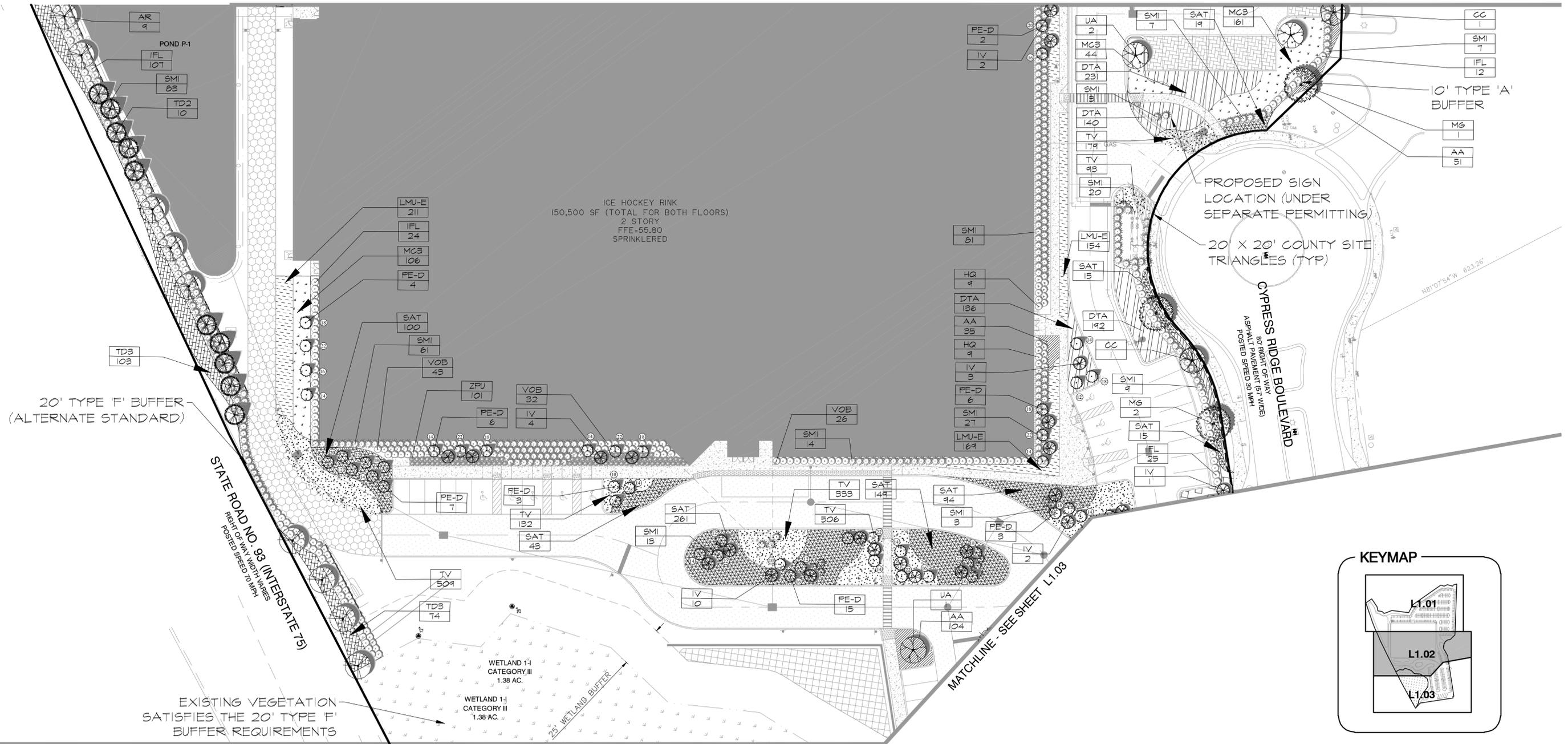
SANITARY SEWER DETAILS

NO.	DATE	DESCRIPTION	APP'D BY
3.	11/20/2014	QC REVIEW & GEOTECHNICAL RECOMMENDATIONS FOR FINE LANE AND PERVIOUS PAVEMENT	NLL
2.	11/04/2014	UPDATED PER GEOTECHNICAL RECOMMENDATIONS	NLL
1.	10/16/2014	PASCO COUNTY & SWFWMD COMMENTS	NLL

JOB NO.	4947-000-000	SHEET NO.	C12.01
DATE	2/6/2014	SCALE	AS SHOWN
PASCO COUNTY RESUBMITTAL		DECEMBER 1, 2014	



MATCHLINE - SEE SHEET L1.01



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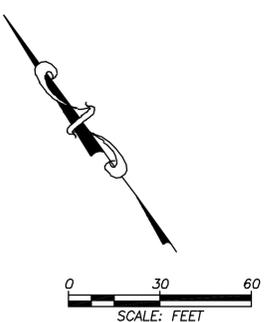
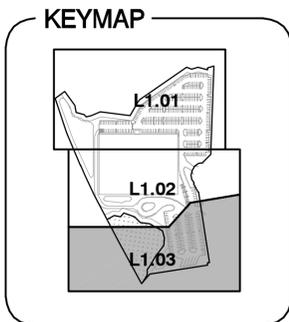
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 FOR
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CODE LANDSCAPE PLAN

NO.	DATE	DESCRIPTION	APP'D BY
3.	11/20/2014	QC REVIEW & GEOTECHNICAL RECOMMENDATIONS FOR FINE LANE AND PERVIOUS PAVEMENT	NULL
2.	11/04/2014	UPDATED PER GEOTECHNICAL RECOMMENDATIONS	NULL
1.	10/16/2014	PASCO COUNTY & SWFWMD COMMENTS	NULL

THE SIGNATURE OF THE QUALITY CONTROL OFFICER IN THIS SPACE INDICATES THAT ALL REQUIRED PERMITS HAVE BEEN OBTAINED AND THAT CONSTRUCTION IS AUTHORIZED TO COMMENCE.
 Clark C Lohmiller
 Dec 05, 2014
 L.A. 6667167

JOB NO. 4947-000-000
 DATE: 2/6/2014
 SCALE: AS SHOWN
 SHEET NO. **L1.02**
 PASCO COUNTY RESUBMITTAL
 DECEMBER 1, 2014



MATCHLINE - SEE SHEET L1.02

PROPOSED SIGN LOCATION (UNDER SEPARATE PERMITTING)

10' TYPE 'A' BUFFER

CYPRESS RIDGE BOULEVARD
ASPHALT PAVEMENT (67' WIDE)
POSTED SPEED 30 MPH

STATE ROAD NO. 93
(INTERSTATE 75)
RIGHT OF WAY (MICHIGAN)
POSTED SPEED 70 MPH

WETLAND 1-I
CATEGORY III
1.38 AC.

EXISTING VEGETATION SATISFIES THE 20' TYPE 'F' BUFFER REQUIREMENTS

25' WETLAND BUFFER

10' TYPE 'A' BUFFER

PLANT SCHEDULE

TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT.	GAL.	SIZE	NATIVE	DROUGHT TOLERANCE	% OF TOTAL
AB	50	Acer barbatum Floridanum	Florida Maple	45 gal	3' Gal	10'-18" Ht. x 5'-6" Spd.	Yes	High	23 %	
AR	15	Acer rubrum	Red Maple	45 gal	3' Gal	10'-18" Ht. x 5'-6" Spd.	Yes	Medium	7 %	
CC	12	Cercis canadensis	Eastern Redbud	45 gal	3' Gal	10'-18" Ht. x 5'-6" Spd.	Yes	High	5 %	
IV	21	Ilex vomitoria	Yaupon Holly	45 gal	3' Gal	9'-18" HT. 4'-5" SPD.	Yes	High	12 %	
MG	15	Magnolia grandiflora	Southern Magnolia	45 gal	3' Gal	9'-18" HT. 4'-5" SPD.	Yes	Medium	6 %	
FE-D	54	Pinus Elliotti 'Densa'	Slash Pine	45 gal	3' Gal	9'-18" HT. 4'-5" SPD.	Yes	High	24 %	
TD	20	Taxodium distichum	Bald Cypress	45 gal	3' Gal	9'-18" HT. 4'-5" SPD.	Yes	High	4 %	
UA	32	Ulmus alata	Winged Elm	45 gal	3' Gal	10'-18" Ht. x 5'-6" Spd.	Yes	High	14 %	
SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT.	SIZE	NATIVE	DROUGHT TOLERANCE	% OF TOTAL	
HO	36	Hydrangea quercifolia	Oakleaf Hydrangea	3 gal, 4" OC	30" HT x 30" SPD.	Yes	Medium	1 %	1 %	
IFL	374	Illicium floridanum	Florida Anise	3 gal, 4" OC	18-24" HTx18-24" SPD.	Yes	Medium	3 %	3 %	
SMI	369	Sabal minor	Dwarf Palmetto	7 gal	4" HT x 3-4" SPD.	Yes	High	5 %	5 %	
VOB	150	Viburnum obtusatum	Nelder's Viburnum	3 gal, 4" OC	24" HT x 24" SPD.	Yes	High	1 %	1 %	
ZPU	204	Zamia pumila	Coastal	3 gal	18-24" HTx18-24" SPD.	Yes	High	2 %	2 %	
GROUNDCOVERS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT.	SPACING	NATIVE	DROUGHT TOLERANCE	% OF TOTAL	
BF	1265	Bulbophyllum frutescens	Stalked Bulboph	1 gal	9" o.c.	No	High	11 %	11 %	
DTA	1259	Dianella tasmanica	Flax Lily	1 gal	12" o.c.	No	High	11 %	11 %	
ESP	1420	Eragrostis spectabilis	Purple Love Grass	1 gal	12" o.c.	Yes	High	12 %	12 %	
LMU-E	1251	Liriope muscari 'Evergreen Giant'	Evergreen Giant Border Grass	1 gal	12" o.c.	No	Medium	11 %	11 %	
MCS	840	Muhlenbergia capillaris	Pink Muhly	1 gal	18" o.c.	Yes	High	5 %	5 %	
SAT	850	Styrrinchium baltium	Blue Eyed Grass	1 gal	18" o.c.	Yes	Medium	7 %	7 %	
TDS	3917	Tripsacum floridanum	Florida Samgrass	1 gal	18" o.c.	Yes	High	5 %	5 %	
TV	2284	Tybaegia violacea	Society Garlic	1 gal	9" o.c.	No	Medium	20 %	20 %	
AAF	608	Agapanthus africanus	Lily of the Nile	1 gal	12" o.c.	No	Medium	5 %	5 %	
GRASS	BOTANICAL NAME	COMMON NAME	CONT.	NATIVE	DROUGHT TOLERANCE					
	Paspalum notatum	Bahiá Grass	500	No	High					

*Note: Bahia sod shall be utilized on the entire site where needed. The species is highly drought tolerant and shall satisfy the requirements set forth by the Pasco County LDC 405.2 G.1.
*Note: Native Floridian plant species comprise (6-9%) sixty-four percent of the total shrub and groundcover plant species proposed for the site.

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DATE: 2/6/2014

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FOR
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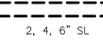
CODE LANDSCAPE PLAN

NO.	DATE	DESCRIPTION	APP'D BY
4.	12/5/2014	PASCO COUNTY COMMENTS	NLL
3.	11/20/2014	GC REVIEW & GEOTECHNICAL RECOMMENDATIONS FOR FIRE LANE AND PERVIOUS PAVEMENT	NLL
2.	11/04/2014	UPDATED PER GEOTECHNICAL RECOMMENDATIONS	NLL
1.	10/16/2014	PASCO COUNTY & SWFWMD COMMENTS	NLL

Clark C Lohmiller
Dec 08, 2014
L.A. 6667167

JOB NO. 4947-000-000
DATE: 2/6/2014
SCALE: AS SHOWN
SHEET NO. L1.03
PASCO COUNTY RESUBMITTAL
DECEMBER 1, 2014

IRRIGATION LEGEND:

-  DRIP IRRIGATION ZONES - MICRO-IRRIGATION
-  BUBBLER IRRIGATION ZONES - MICRO-IRRIGATION (TREES)
-  TURF ZONES - NON MICRO-IRRIGATION (ALL OTHER SOD AREAS)
-  PROPOSED IRRIGATION SLEEVES (TYP.)
2, 4, 6" SL

DRAFT-INFORMATIONAL PURPOSES ONLY.

IRRIGATION PLANS AND DETAILS WILL BE REVIEWED WITH THE APPROPRIATE BUILDING PERMIT.

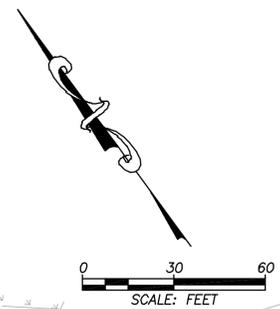
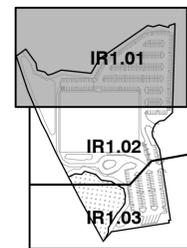
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KEYMAP



IRRIGATION NOTES:

ALL LANDSCAPED AREAS SHALL BE PROVIDED WITH AN IRRIGATION SYSTEM THAT SUPPLIES 100% COVERAGE TO ALL REQUIRED LANDSCAPING MATERIAL. THE IRRIGATION SYSTEM MAY CONSIST OF AN AUTOMATIC OR MANUAL UNDERGROUND SYSTEM, DRIP SYSTEM, QUICK COUPLING VALVES, OR HOSE BIBS WITHIN 50 FEET OF ALL REQUIRED LANDSCAPING PLANT MATERIAL. A LOW VOLUME IRRIGATION SYSTEM SHALL BE USED WHEREVER POSSIBLE.

THE IRRIGATION SYSTEM WILL BE DESIGNED TO MINIMIZE ROOT DISTURBANCE TO EXISTING TREES AND OTHER VEGETATION TO BE RETAINED. NO IRRIGATION IS REQUIRED WITHIN THESE AREAS.

IRRIGATION ZONES ARE DELINEATED AS MICRO-IRRIGATION OR WITH IRRIGATION TECHNIQUES OTHER THAN MICRO-IRRIGATION. TURF AREAS ARE TO BE ON SEPARATE IRRIGATION ZONES FROM OTHER LANDSCAPE PLANT ZONES. IRRIGATION SPRAYS AND ROTORS ARE NOT TO BE COMBINED ON THE SAME CONTROL VALVE CIRCUIT.

THE IRRIGATION SYSTEM WILL AVOID OVER-SPRAY AND RUNOFF ONTO WALKWAYS, ROADWAYS, STRUCTURES OR OTHER NON-LANDSCAPED AREAS. FOUR FEET WIDE OR LESS LANDSCAPE AREAS SHALL CONTAIN MICRO-IRRIGATION ONLY. SPRINKLER SPACING SHALL NOT EXCEED 55% OF THE SPRINKLER'S DIAMETER OF COVERAGE.

THE IRRIGATION CONTROL EQUIPMENT SHALL INCLUDE AN AUTOMATIC IRRIGATION CONTROLLER WITH PROGRAM FLEXIBILITY. UNLESS MECHANICAL, THE AUTOMATIC IRRIGATION CONTROLLER MUST CONTAIN A BATTERY BACKUP TO RETAIN IRRIGATION PROGRAMS. AN OPERABLE RAIN SENSOR DEVICE MUST BE INSTALLED EXPOSED TO UNOBSTRUCTED RAINFALL.

THE IRRIGATION SYSTEM SHALL BE DESIGNED TO STANDARDS AND SPECIFICATIONS FOR TURF AND LANDSCAPE IRRIGATION SYSTEMS, FOURTH EDITION, 2000, FLORIDA IRRIGATION SOCIETY.

THE UNDERGROUND IRRIGATION PIPES PROPOSED THAT ARE NEAR EXISTING TREES THAT ARE TO REMAIN MUST BE HAND DUG TO AVOID ROOT DISTURBANCE.

DRIP IRRIGATION ZONES
BUBBLER IRRIGATION ZONES

DRIP IRRIGATION ZONES
BUBBLER IRRIGATION ZONES

WETLAND 5-C
CATEGORY I
49.81 AC.

25' WETLAND BUFFER

ICE HOCKEY RINK
150,500 SF (TOTAL FOR BOTH FLOORS)
2 STORY
F.F.E = 55.80
SPRINKLERED

MATCHLINE - SEE SHEET IR1.02

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 I warrant that the drawings and specifications herein were prepared by me or under my direct supervision and that I am a duly licensed professional engineer in the State of Florida.
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STATE ROAD NO. 98 (INTERSTATE 75)
RIGHT OF WAY WIDTH VARIES
POSTED SPEED TO WPL

POND P-1

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CHECKED	NULL/AGK
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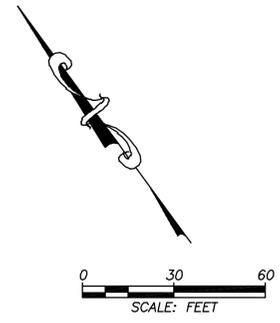
CODE IRRIGATION PLAN

NO.	DATE	DESCRIPTION	APP'D BY
3.	11/20/2014	GC REVIEW & GEOTECHNICAL RECOMMENDATIONS FOR FIRE LANE AND PERVIOUS PAVEMENT	NULL
2.	11/04/2014	UPDATED PER GEOTECHNICAL RECOMMENDATIONS	NULL
1.	10/16/2014	PASCO COUNTY & SWFWMD COMMENTS	NULL

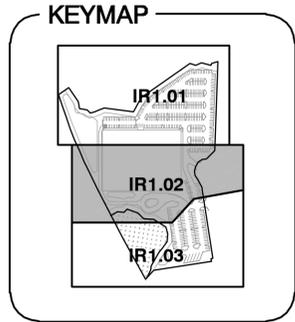
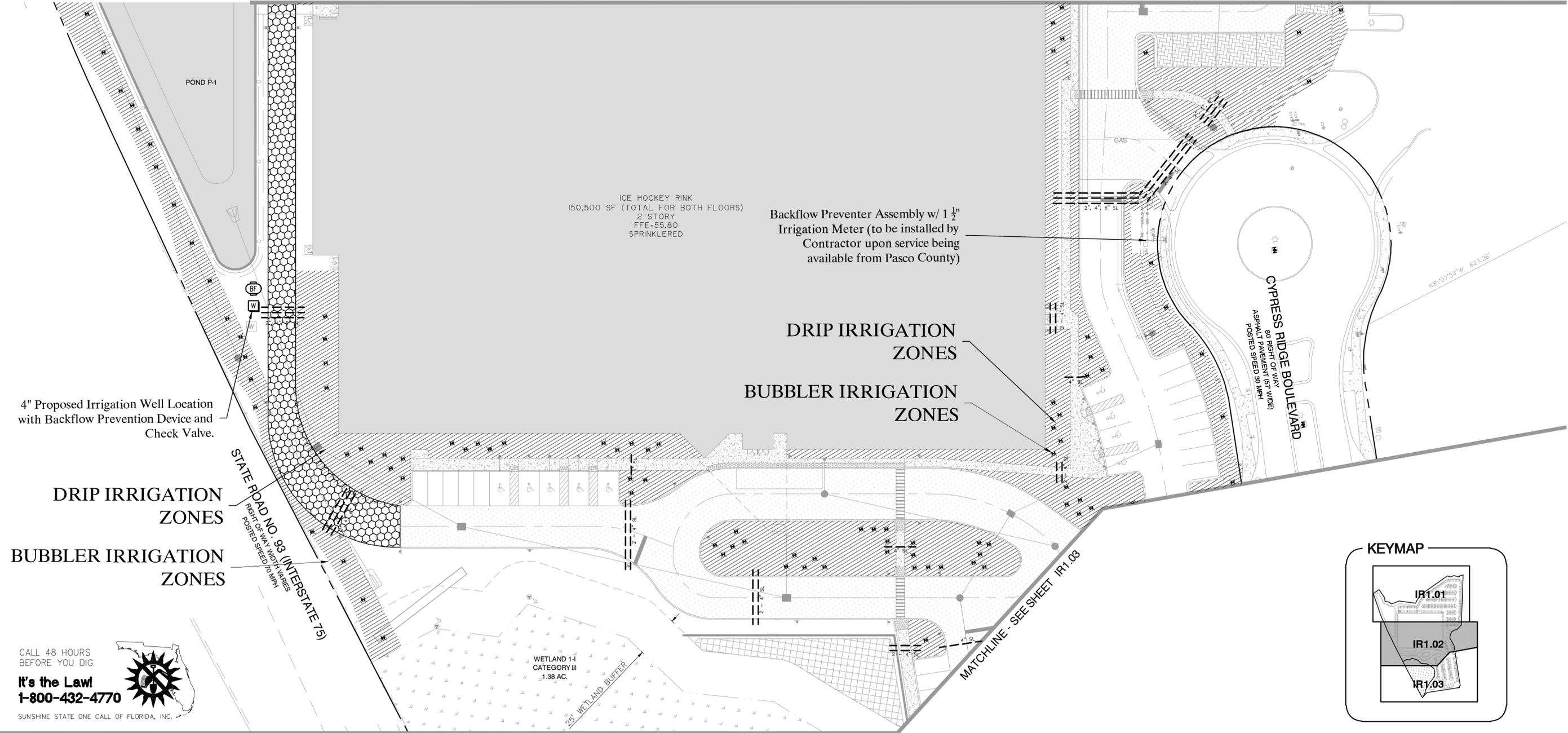
Clark C Lohmiller
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 L.A. 6667167

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 DATE 2/6/2014
 SCALE AS SHOWN
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 PASCO COUNTY RESUBMITTAL
 DECEMBER 1, 2014

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MATCHLINE - SEE SHEET IR1.01



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4" Proposed Irrigation Well Location with Backflow Prevention Device and Check Valve.

ICE HOCKEY RINK
150,500 SF (TOTAL FOR BOTH FLOORS)
2 STORY
FFE=55.80
SPRINKLERED

Backflow Preventer Assembly w/ 1 1/2" Irrigation Meter (to be installed by Contractor upon service being available from Pasco County)

DRIP IRRIGATION ZONES
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WETLAND 1-I
CATEGORY III
1.38 AC.

25' WETLAND BUFFER

MATCHLINE - SEE SHEET IR1.03

DESIGNED	NULL
DRAWN	DEU
CHECKED	NULL/AGK
DATE	LFK

King
ENGINEERING ASSOCIATES, INC.

4921 Memorial Highway
One Memorial Center, Suite 300
Tampa, Florida 33634
Phone 813 880-8881
Fax 813 880-8882
www.kingengineering.com
Engineering License #2610

CYPRESS CREEK ICE HOCKEY
FOR
ZMITCH, LLC
4939 NEW PROVIDENCE AVE.
TAMPA, FL 33629

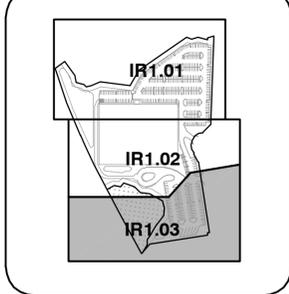
CODE IRRIGATION PLAN

NO.	DATE	DESCRIPTION	APP'D BY
3.	11/20/2014	QC REVIEW & GEOTECHNICAL RECOMMENDATIONS FOR FIRE LANE AND PERVIOUS PAVEMENT	NULL
2.	11/04/2014	UPDATED PER GEOTECHNICAL RECOMMENDATIONS	NULL
1.	10/16/2014	PASCO COUNTY & SWFWMD COMMENTS	NULL

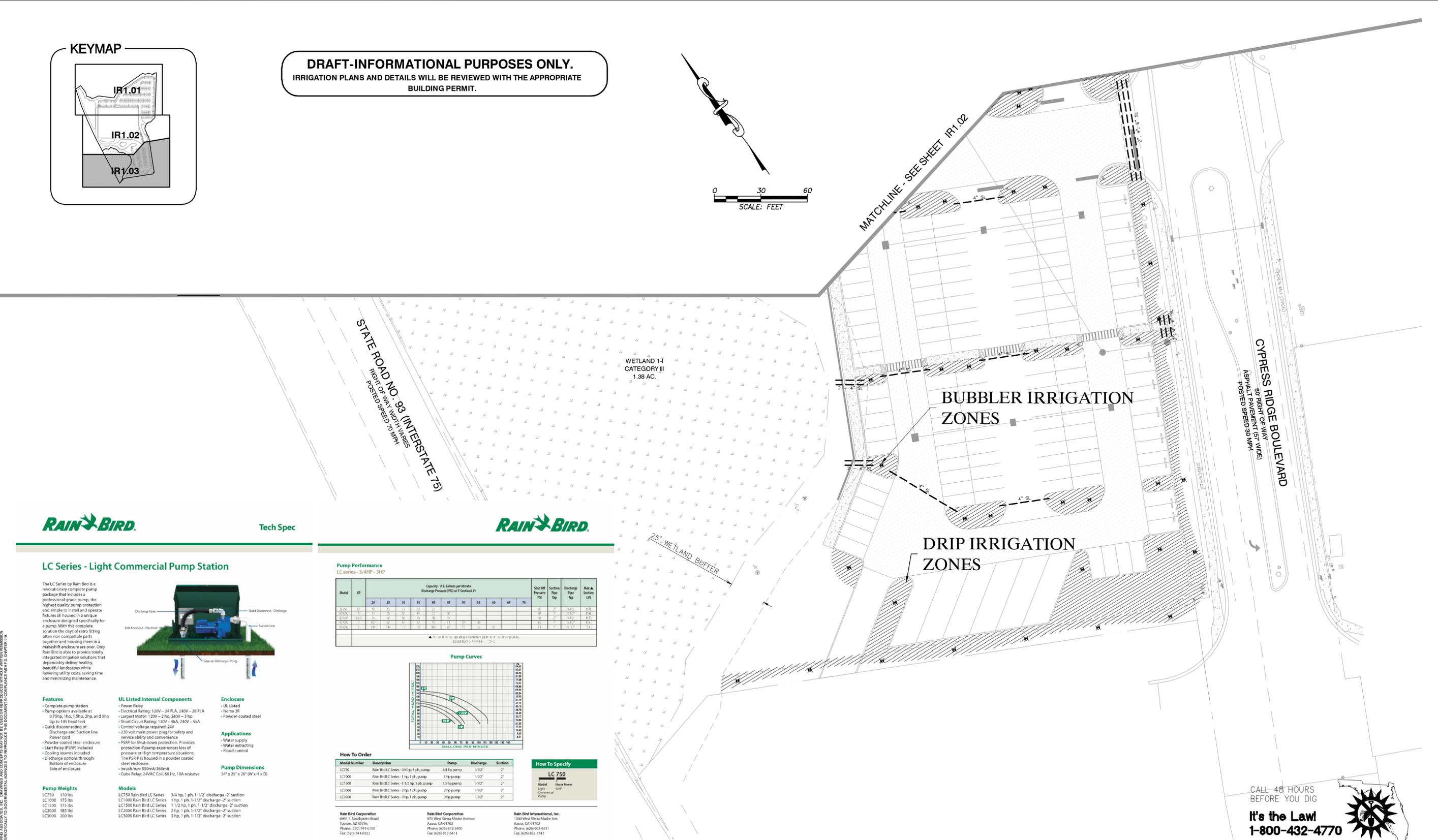
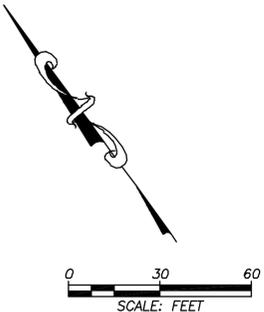
Clark C Lohmiller
Dec 05, 2014
L.A. 6667167

JOB NO. 4947-000-000
DATE: 2/6/2014
SCALE: AS SHOWN
SHEET NO. **IR1.02**
PASCO COUNTY RESUBMITTAL
DECEMBER 1, 2014

KEYMAP



DRAFT-INFORMATIONAL PURPOSES ONLY.
IRRIGATION PLANS AND DETAILS WILL BE REVIEWED WITH THE APPROPRIATE BUILDING PERMIT.

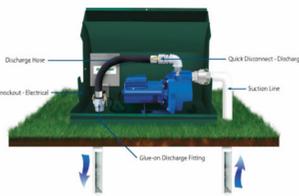


Tech Spec



LC Series - Light Commercial Pump Station

The LC Series by Rain Bird is a revolutionary complete pump package that includes a professional-grade pump, the highest quality pump protection and simple to install and operate features all housed in a unique enclosure designed specifically for a pump. With this complete solution the days of retro fitting often non-compatible parts together and housing them in a makeshift enclosure are over. Only Rain Bird is able to provide totally integrated irrigation solutions that dependably deliver healthy, beautiful landscapes while lowering utility costs, saving time and minimizing maintenance.



- Features**
- Complete pump station
 - Pump options available at: 0.75hp, 1hp, 1.5hp, 2hp, and 3hp. Up to 145 head feet
 - Quick disconnecting of Discharge and Suction line
 - Power cord
 - Powder coated steel enclosure
 - Start Relay (SPR) included
 - Cooling louvers included
 - Discharge options through: Bottom of enclosure
 - Side of enclosure

- UL Listed Internal Components**
- Power Relay
 - Electrical Rating: 120V - 24 FLA, 240V - 28 FLA
 - Largest Motor: 120V - 2 hp, 240V - 3 hp
 - Short Circuit Rating: 120V - 5KA, 240V - 5KA
 - Control voltage required: 24V
 - 230 volt main power plug for safety and service ability and convenience
 - PSP for Shut-down protection. Provides protection if pump experiences loss of pressure or high temperature situations.
 - The PSP is housed in a powder coated steel enclosure.
 - Inrush/Inrush: 950mA/350mA
 - Cable Relay: 24VAC Coil, 60 Hz, 10A resistive

- Enclosure**
- UL Listed
 - Nema 3R
 - Powder-coated steel
- Applications**
- Water supply
 - Water extracting
 - Flood control

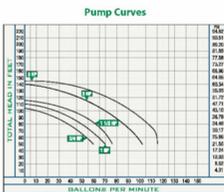
- Pump Dimensions**
- 34" x 25" x 20" (W x H x D)

- Pump Weights**
- LC750 170 lbs
 - LC1000 175 lbs
 - LC1500 175 lbs
 - LC2000 185 lbs
 - LC3000 200 lbs

- Models**
- LC750 Rain Bird LC Series 3/4 hp, 1 ph, 1-1/2" discharge-2" suction
 - LC1000 Rain Bird LC Series 1 hp, 1 ph, 1-1/2" discharge-2" suction
 - LC1500 Rain Bird LC Series 1 1/2 hp, 1 ph, 1-1/2" discharge-2" suction
 - LC2000 Rain Bird LC Series 2 hp, 1 ph, 1-1/2" discharge-2" suction
 - LC3000 Rain Bird LC Series 3 hp, 1 ph, 1-1/2" discharge-2" suction

Pump Performance
LC series - 3/4HP - 3HP

Model	HP	Capacity U.S. Gallons per Minute Discharge Pressure (PSI) at 5' Section Lift										Start Off Pressure PSI	Suction Pipe Tap	Discharge Pipe Tap	Max. A. Section Lift	
		20	25	30	35	40	45	50	55	60	65					70
LC750	3/4	30	25	20	15	10	5	5	5	5	5	5	5	2"	1-1/2"	2"
LC1000	1	35	30	25	20	15	10	5	5	5	5	5	5	2"	1-1/2"	2"
LC1500	1 1/2	40	35	30	25	20	15	10	5	5	5	5	5	2"	1-1/2"	2"
LC2000	2	45	40	35	30	25	20	15	10	5	5	5	5	2"	1-1/2"	2"
LC3000	3	50	45	40	35	30	25	20	15	10	5	5	5	2"	1-1/2"	2"



How To Order

Model Number	Description	Pump	Discharge	Suction
LC750	Rain Bird LC Series - 3/4 hp, 1 ph, pump	3/4 hp pump	1-1/2"	2"
LC1000	Rain Bird LC Series - 1 hp, 1 ph, pump	1 hp pump	1-1/2"	2"
LC1500	Rain Bird LC Series - 1 1/2 hp, 1 ph, pump	1 1/2 hp pump	1-1/2"	2"
LC2000	Rain Bird LC Series - 2 hp, 1 ph, pump	2 hp pump	1-1/2"	2"
LC3000	Rain Bird LC Series - 3 hp, 1 ph, pump	3 hp pump	1-1/2"	2"

How To Specify

Model	How Power
LC 750	Light Commercial Pump

Rain Bird Corporation
6991 E. Southpoint Road
Tucson, AZ 85756
Phone: (520) 741-6100
Fax: (520) 741-6522

Rain Bird Corporation
970 West Sierra Madre Avenue
Azusa, CA 91702
Phone: (626) 812-3400
Fax: (626) 812-3411

Rain Bird International, Inc.
1000 West Sierra Madre Ave.
Azusa, CA 91702
Phone: (626) 963-9331
Fax: (626) 852-7343

Rain Bird Technical Services
1-800-RAINBIRD (1-800-724-6247)
(U.S. and Canada)

Specification Hotline
1-800-458-3005 (U.S. and Canada)

The Intelligent Use of Water™
www.rainbird.com

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SUNSHINE STATE ONE CALL OF FLORIDA, INC.

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DESIGNED	NULL
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DATE	LFK

THE SIGNATURE OF THE QUALITY CONTROL OFFICER IN THIS SPACE INDICATES THAT ALL REQUIRED PERMITS HAVE BEEN OBTAINED AND THAT CONSTRUCTION IS AUTHORIZED TO COMMENCE.

King
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JOB NO.	4947-000-000	SHEET NO.	IR1.03
DATE	2/6/2014	SCALE	AS SHOWN
PASCO COUNTY RESUBMITTAL		DECEMBER 1, 2014	