

INDEX TO SHEETS - BOAT RAMP IMPROVEMENTS

SHEET	DESCRIPTION
1	COVER SHEET
2	AERIAL LOCATION MAP
3	BOAT RAMP IMPROVEMENTS PLAN
4	TYPICAL DETAILS AND SECTIONS
5	BEST MANAGEMENT PRACTICES PLAN
6	BEST MANAGEMENT PRACTICES DETAILS

NOTES

- TOTAL PROPERTY BOUNDARY AREA: 10.23± AC
- TOTAL SWFMD ERP PROJECT AREA = 8.26± AC
- BOUNDARY DATA SHOWN IS FOR INFORMATIONAL PURPOSES ONLY AND DOES NOT CONSTITUTE A BOUNDARY SURVEY.
- THE PROJECT WILL CONSIST OF A PUBLIC RECREATIONAL/PARK FACILITY.
- PRESENT ZONING IS PLANNED DEVELOPMENT-RESIDENTIAL (PD-R). THE SITE IS LOCATED WITHIN THE NORTH CENTRAL OVERLAY DISTRICT (NCO).
- THE PROJECT IS 100% OPEN SPACE/RECREATIONAL.
- THE EXISTING LAND USE IS RECREATIONAL/VACANT/AGRICULTURAL.
- PROJECT IS LOCATED WITHIN FLOOD ZONES AE AND X (OTHER FLOOD AREAS) AS PER LATEST FEMA FIRM COMMUNITY PANEL NO. 12081C 0195E, REVISED MARCH 17, 2014.
- SANITARY SEWER AND POTABLE WATER SERVICE IS PROVIDED VIA EXISTING FACILITIES MAINTAINED BY MANATEE COUNTY. NO NEW SANITARY SEWER OR POTABLE WATER EXTENSIONS OR SERVICES ARE PROPOSED AT THIS TIME.
- THE DEVELOPMENT SHALL ADHERE TO SECTION 715 OF THE MANATEE COUNTY LAND DEVELOPMENT CODE (LDC). REPLACEMENT TREES SHALL BE INCLUDED IN THE REQUIRED LANDSCAPING. LANDSCAPE AND BUFFER AREAS WILL BE PROVIDED IN ACCORDANCE WITH THE MANATEE COUNTY LDC. SEE LANDSCAPE PLANS ENCLOSED.
- ALL REQUIRED SITE IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 722, "INSTALLATION OF REQUIRED IMPROVEMENTS", OF THE MANATEE COUNTY LDC.
- THERE ARE NO KNOWN EXISTING PLATS AND/OR HISTORIC SITES ON THIS SITE. ALL EXISTING EASEMENTS AND BUILDINGS ARE SHOWN ON THE SITE PLAN. THE EXISTING FORT HAMER ROAD PUBLIC RIGHT-OF-WAY WILL BE VACATED WITHIN THE PROJECT LIMITS AND WILL BECOME PART OF THE PUBLIC PARK PROPERTY.
- THERE ARE NO KNOWN EXISTING COVENANTS OR DEED RESTRICTIONS WHICH WOULD AT THIS TIME AFFECT THE PROPOSED DEVELOPMENT.
- THIS PROJECT HAS BEEN DESIGNED TO PROVIDE REASONABLE ASSURANCE THAT ALL APPLICABLE PERMITS CAN BE OBTAINED.
- THE STORMWATER MANAGEMENT SYSTEM FOR THIS DEVELOPMENT WILL BE MAINTAINED BY MANATEE COUNTY.
- THE EXISTING WETLANDS WILL HAVE A POST-DEVELOPED 30' AVERAGE BUFFER. WETLANDS AND WETLAND BUFFERS WITHIN THE PROPERTY WILL BE IN A CONSERVATION AREA.
- CONSTRUCTION SCHEDULE:
APPROXIMATE START DATE: JAN 2013
APPROXIMATE END DATE: JAN 2016
- TOPOGRAPHY IS COMPILED FROM FIELD INFORMATION OBTAINED BY ZOLLER, NAJJAR, & SHROYER, L.C., MANATEE COUNTY, AND WILSONMILLER STANTEC. ALL EXISTING AND PROPOSED ELEVATIONS ARE IN NATIONAL GEODETIC VERTICAL DATUM (1929).
- PARKING LOT LIGHTING IS PROPOSED AND WILL BE IN ACCORDANCE WITH SECTION 709 OF THE MANATEE COUNTY LDC.
- ALL COMMON IMPROVEMENTS AND OPEN SPACE WITHIN THE SITE WILL BE MAINTAINED BY MANATEE COUNTY.
- THE STORMWATER MANAGEMENT SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH MANATEE COUNTY REQUIREMENTS, AND CHAPTER 62-343 F.A.C. REQUIREMENTS.
- ALL EXISTING WETLANDS ON-SITE HAVE BEEN LOCATED AND ARE SHOWN ON THE PLANS. SWFMD AND USACE PERMITS WILL BE OBTAINED AS REQUIRED.
- IN ORDER TO MEET THE PARKING DEMANDS ANTICIPATED BY MANATEE COUNTY, THE FOLLOWING PARKING SPACES ARE PROPOSED:
74 VEHICLE PARKING SPACES TOTAL (INCLUDES 4 HANDICAP SPACES - 5.4%)
17 BOAT TRAILER PARKING SPACES
4 TEAM ROWING TRAILER PARKING SPACES
- PHASE IIA PARKING PROPOSED:
10 VEHICLE PARKING SPACES (INCLUDING 1 HANDICAP SPACE)
17 BOAT TRAILER PARKING SPACES
- PHASE IIB PARKING PROPOSED:
64 VEHICLE PARKING SPACES (INCLUDING 3 HANDICAP SPACES)
4 TEAM ROWING TRAILER PARKING SPACES
- NO NEW BUILDING SQUARE FOOTAGE/GROSS FLOOR AREA IS PROPOSED WITH THIS PROJECT.
- THERE ARE NO KNOWN WELLS ON SITE.
- THE MANATEE RIVER (PERENNIAL STREAM) IS LOCATED ADJACENT TO THE PROJECT ALONG THE SOUTHERN PROPERTY LINE.
- ALL PROPOSED SIGNAGE WILL BE IN ACCORDANCE WITH THE MANATEE COUNTY LAND DEVELOPMENT CODE.
- DRAINAGE AND UTILITY EASEMENTS WILL BE PROVIDED AS REQUIRED BY THE MANATEE COUNTY LAND DEVELOPMENT CODE.
- ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE IN PLACE PRIOR TO CONSTRUCTION ACTIVITIES.
- ALL EXISTING FEATURES ARE LABELED AS EXISTING ON THE SITE PLAN SHEETS. ALL OTHER FEATURES NOT LABELED EXISTING, ARE PROPOSED.
- ALL PROPOSED SETBACKS AND BUFFERS ARE SHOWN ON THE SITE PLAN.
- ALL DRIVEWAYS AND DRIVE ASLES WILL BE CONSTRUCTED IN ACCORDANCE WITH THE MANATEE COUNTY LDC AND WILL BE MAINTAINED BY MANATEE COUNTY. ALL TRAFFIC CONTROL SIGNAGE AND PAVEMENT MARKINGS, SHALL CONFORM TO FDOT AND MUTCD STANDARDS.
- SOLID WASTE WILL BE STORED IN A DUMPSTER ENCLOSURE ON-SITE AND COLLECTED BY MANATEE COUNTY WASTE MANAGEMENT.
- THE SITE IS LOCATED WITHIN THE MAPPED MANATEE COUNTY 25-YEAR FLOODPLAIN.
- PHASE IIA CONSISTS OF THE FOLLOWING IMPROVEMENTS AS DEPICTED IN GRAY SHADING ON SHEET 3, AS WELL AS SHEETS 4*, 5*, 12*. LP-101A, LP-401A, LS-401A, LI-101A, AND E1.3A:
ALL MASTER STORMWATER FACILITIES (I.E. DRY RETENTION #1, WET DETENTION POND #2, WET DETENTION POND #3, AND THE OFFSITE FLOODPLAIN COMPENSATION AREA)
BOAT RACK STORAGE AREA
IMPROVEMENTS TO THE EXISTING FORT HAMER ROAD AND THE BOAT TRAILER PARKING AREA LOCATED EAST OF FORT HAMER ROAD.
ALL LANDSCAPING/IRRIGATION AND SITE LIGHTING ASSOCIATED WITH THE ABOVE LISTED PHASE IIA IMPROVEMENTS
- PHASE IIB CONSISTS OF THE REMAINDER OF ALL OTHER IMPROVEMENTS APPROVED WITH FSP-12-33.
- PHASE III CONSISTS OF BOAT RAMP IMPROVEMENTS TO THE EXISTING BOAT RAMP FACILITY.

REVISED PRELIMINARY SITE PLAN / FINAL SITE PLAN / CONSTRUCTION PLANS FOR FT. HAMER PARK, PHASE IIA, IIB, III

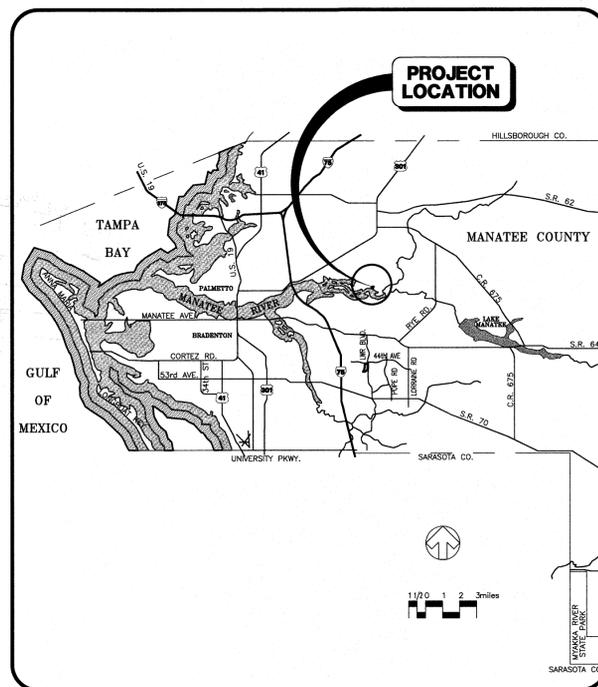
(PHASING PLANS / LANDSCAPE AND SITE LIGHTING MODIFICATIONS / BOAT RAMP IMPROVEMENTS) (F.K.A. FT. HAMER PARK, PHASE II)

PART OF SECTION 17, TOWNSHIP 34 SOUTH, RANGE 19 EAST, MANATEE COUNTY, FLORIDA

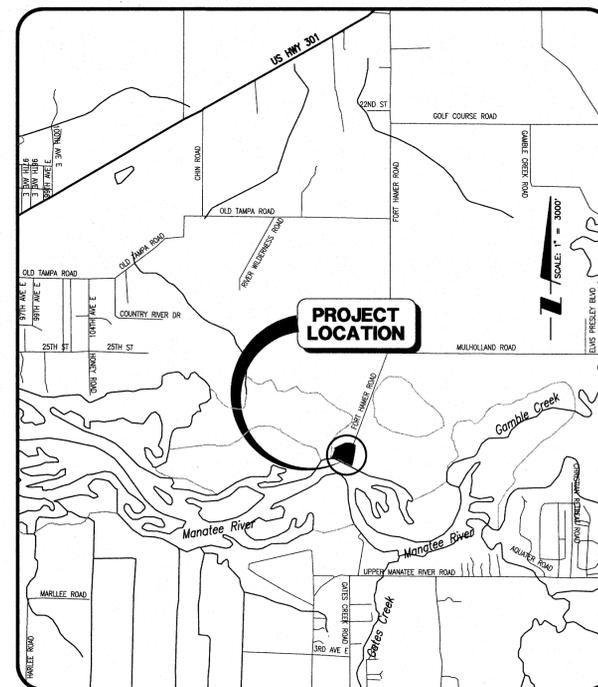
A PROJECT BY

MANATEE BOARD OF COUNTY COMMISSIONERS

1112 MANATEE AVENUE, SUITE 803
BRADENTON, FLORIDA 34205
PHONE: (941) 748-4501



LOCATION MAP



SITE MAP

INDEX TO SHEETS - SITE WORK

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	AERIAL LOCATION MAP/KEY SHEET
3	SITE PLAN
4	PAVING AND DRAINAGE PLAN - WEST
4*	PAVING AND DRAINAGE PLAN - WEST (PHASE IIA IMPROVEMENTS ONLY)
5	PAVING AND DRAINAGE PLAN - EAST
5*	PAVING AND DRAINAGE PLAN - EAST (PHASE IIA IMPROVEMENTS ONLY)
5A	OFFSITE FLOODPLAIN COMPENSATION PLAN AND DETAILS
6	FLOATING DOCK PLAN AND DETAILS
7	TYPICAL SECTIONS AND CONSTRUCTION DETAILS
8	PAVING DETAILS
9	DRAINAGE DETAILS
10	DRAINAGE DETAILS
11	CROSS SECTIONS
12	BEST MANAGEMENT PRACTICES PLAN
12*	BEST MANAGEMENT PRACTICES PLAN (PHASE IIA IMPROVEMENTS ONLY)
13	BEST MANAGEMENT PRACTICES DETAILS
LP-101	LANDSCAPE PLANTING PLAN
LP-101A	LANDSCAPE PLANTING PLAN - PH-IIA
LP-401	LANDSCAPE TREE REMOVAL / CONSERVATION PLAN
LP-401A	LANDSCAPE TREE REMOVAL / CONSERVATION PLAN - PH-IIA
LP-601	LANDSCAPE PLANTING NOTES & DETAILS
LS-401	LANDSCAPE GROUNDCOVER / SURFACES PLAN
LS-401A	LANDSCAPE GROUNDCOVER / SURFACES PLAN - PH-IIA
LI-101	LANDSCAPE IRRIGATION PLAN
LI-101A	LANDSCAPE IRRIGATION PLAN - PH-IIA
LI-501	LANDSCAPE IRRIGATION DETAILS
LI-502	LANDSCAPE IRRIGATION DETAILS & NOTES

INDEX TO SHEETS - SITE LIGHTING

SHEET NO.	DESCRIPTION		
E0.0	ELECTRICAL LEGEND, NOTES, AND PANEL SCHEDULE		
E0.1	ELECTRICAL DETAILS		
E1.1	SITE PHOTOMETRIC PLAN - FC VALUES AT 0' AFG		
E1.2	SITE PHOTOMETRIC PLAN - FC VALUES AT 5' AFG		
E1.3	ELECTRICAL SITE PLAN PHASE II		
E1.3A	ELECTRICAL SITE PLAN PHASE IIA		
Δ	3/18/15 REVISION H INCLUDES REVISIONS TO SHEETS 4, 4*, 5, 5*, 5A, 12, AND 12*	DJB/89366	
Δ	01/14/15 ADD SHEETS W/ASTERISK* (PHASE IIA); REV G INCLUDES REV TO SHEETS 2, 3, 4, 5, 7, 11, LANDSCAPE SHEETS & SITE LIGHTING SHEETS; ADD PH III BOAT RAMP IMPROVEMENTS	ATO/89520	
Δ	11/26/13 REVISION F INCLUDES REVISIONS TO SHEET 5A	DJB/89366	
Δ	10/29/13 REVISION E INCLUDES REVISIONS TO SHEETS 2, 5, AND 5A	ATO/89520	
Δ	9/11/13 REVISE INDEX TO SHEETS TO ADD SITE LIGHTING PLAN SHEETS	DJB/89366	
Δ	2/6/13 REVISION C INCLUDES REVISIONS TO SHEETS 3 AND 11	DJB/89366	
Δ	10/18/12 REVISE NOTE 17; REV. B ALSO INCLUDES REVISIONS TO SHEETS 2, 3, 4, 5, 6, 7, 8, 12, LP-101, LP-401, LP-601, LS-401, AND LI-101	DJB/89366	
Δ	9/7/12 REVISION A INCLUDES REVISIONS TO SHEETS 2, 4, 5, AND 5A	DJB/89366	
NO.	DATE	DESCRIPTION	BY

STATUS : REVISIONS

ENGINEER TECHNICIAN A. TONY OLIMPIYUK, EI	PROJECT MANAGER J. MICHAEL BELL, PE FLORIDA LICENSE NO. 40874	PROJECT ENGINEER DANIEL J. BOND, PE FLORIDA LICENSE NO. 57939
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REVISED PRELIMINARY SITE PLAN/FINAL SITE PLAN/CONSTRUCTION PLANS
PROJECT NAME: FT. HAMER PARK, PHASE IIA, IIB, III

APPROVED _____	Date _____	File Number _____
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Project Planner (PP)	_____
Project Engineer (PE)	_____
Concurrence (CP)	_____
Environmental Planning (EP)	_____
Environmental Health	_____
Fire District	_____
Owner/Agent	_____

Attention: A copy of this approved plan and the approval letter must be provided to the contractor and submitted with your application for a building permit.

RESERVED FOR STATUS AND DATE STAMPS

PROJECT NUMBER
215610582 220

DATE
NOVEMBER 2011

INDEX NUMBER
D-215610582-001

Wilson Miller Stantec

6900 Professional Parkway East, Sarasota, FL 34240

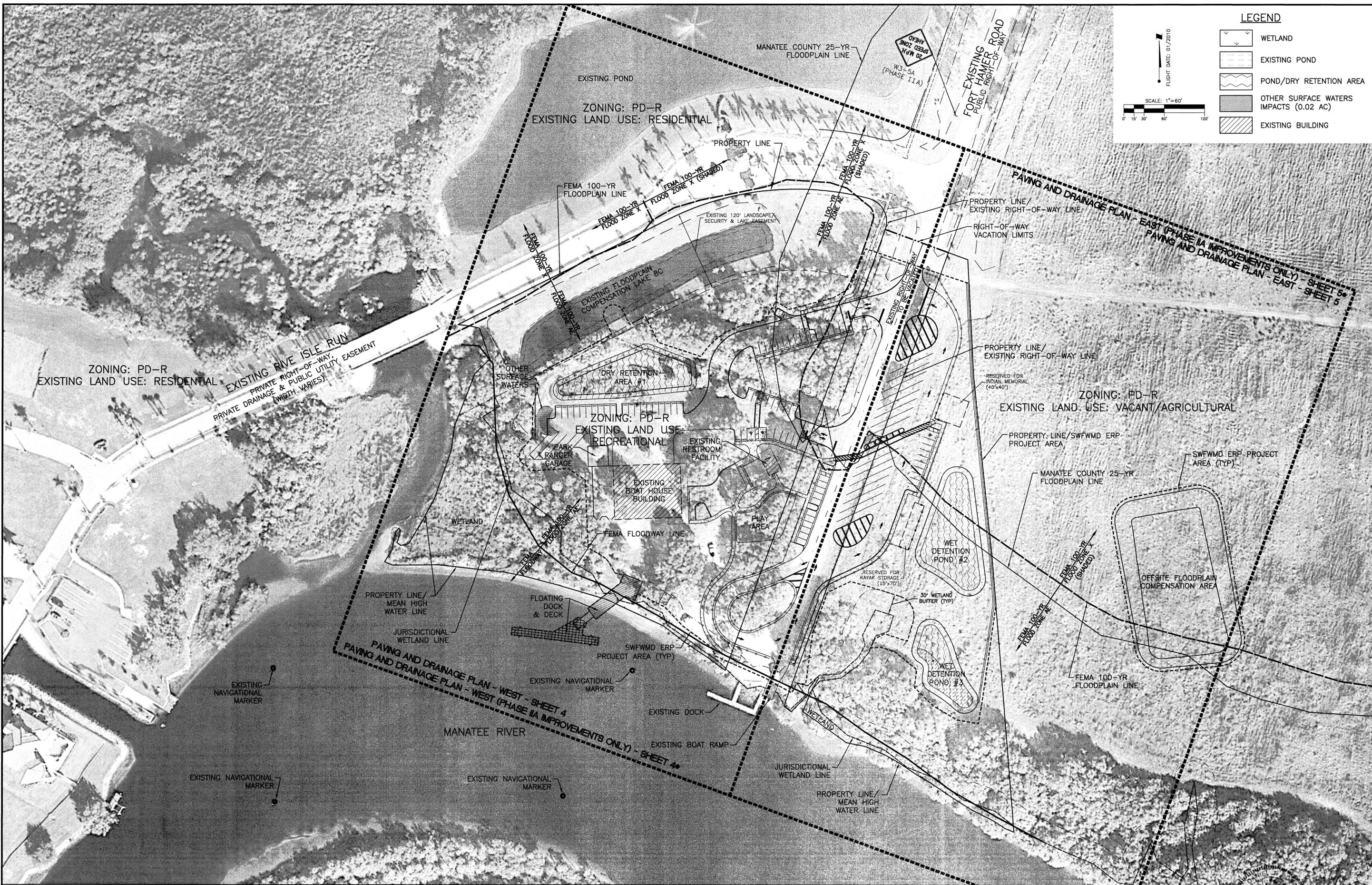
Phone 941-907-6900 • Fax 941-907-6910

Certificate of Authorization #43 • FL Lic. # LC-C000170 • www.stantec.com

LEGEND

- WETLAND
- EXISTING POND
- POND/DRY RETENTION AREA
- OTHER SURFACE WATERS IMPACTS (0.02 AC)
- EXISTING BUILDING

FLIGHT DATE: 01/2010
SCALE: 1"=60'
0' 15' 30' 60' 120'



REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:	ACTIVITY	INITIALS/EMP. NO.	DATE
G	ADD PHASE IIA REFERENCES	01/14/15	ATO/89520			DESIGNED BY:		
E	REVISE OFFSITE FLOODPLAIN COMPENSATION AREA	10/29/13	ATO/89520			DRAWN BY:	ATO/89520	12/14/11
B	UPDATE BASE LINEWORK PER COUNTY COMMENTS	10/18/12	DJB/89366			CHECKED BY:		
A	REVISED FLOODPLAIN COMPENSATION AREA	9/19/12	DJB/89366			CONTRACT ADMIN. BY:		

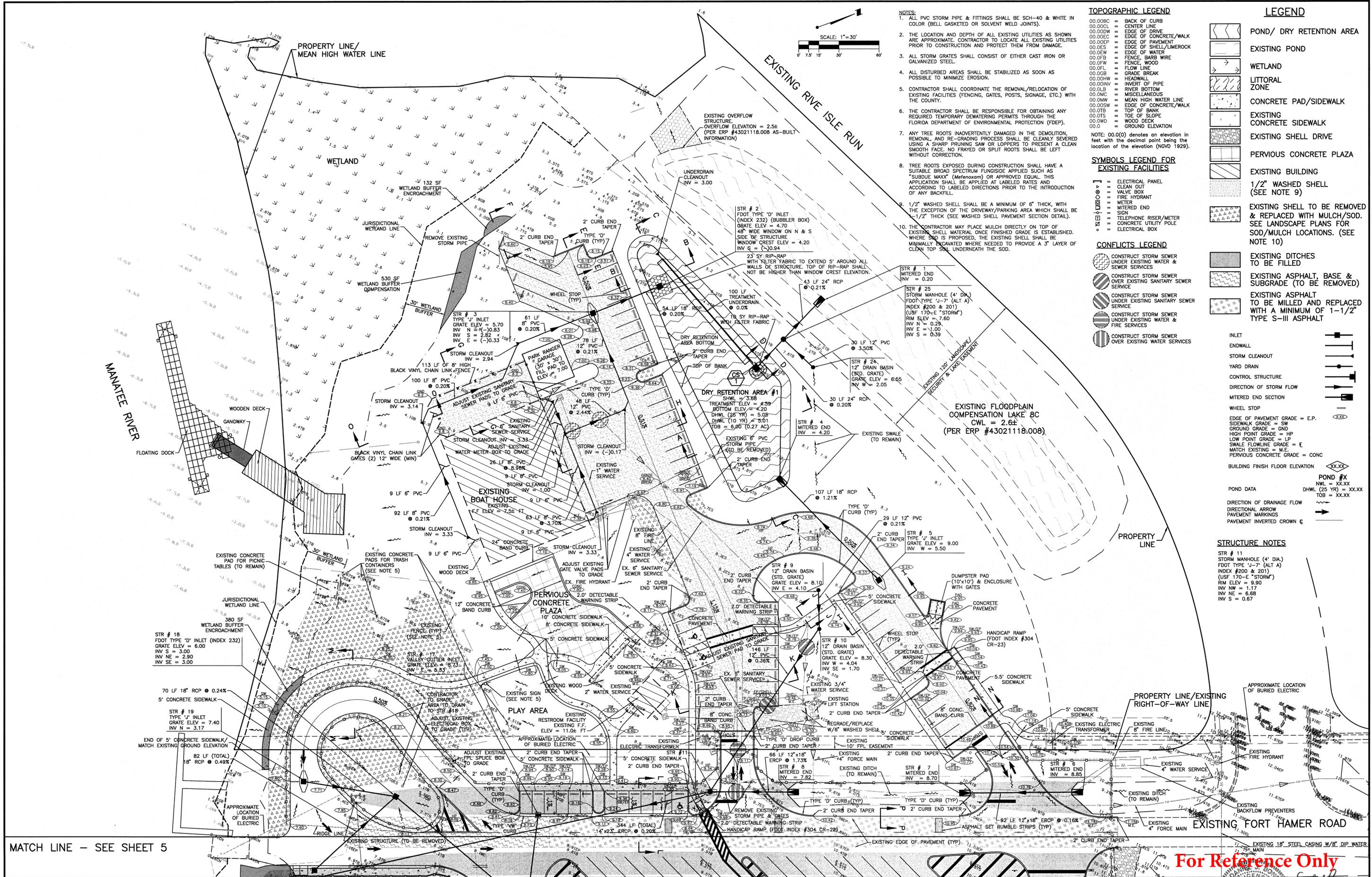
Wilson Miller Stantec

6900 Professional Parkway East, Sarasota, FL 34240
Phone 941-907-6900 • Fax 941-907-6910
Certificate of Authorization #43 • FL Lic. # LC0000710 • www.stantec.com

CLIENT: MANATEE BOARD OF COUNTY COMMISSIONERS
PROJECT: FT. HAMER PARK, PHASE II

DATE: NOVEMBER 2011
HORIZONTAL SCALE: 1"=60'
VERTICAL SCALE: N/A
SEC: 17P, RDE: 34S 19E
CROSS REFERENCE FILE NO.:
PROJECT NUMBER: 215610582-220
SHEET NUMBER: 2 OF 13

TITLE: AERIAL LOCATION MAP/KEY SHEET
D-215610582-002



- NOTES:**
- ALL PVC STORM PIPE & FITTINGS SHALL BE SCH-40 & WHITE IN COLOR (BELL GASKETED OR SOLVENT WELD JOINTS).
 - THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AS SHOWN ARE APPROXIMATE. CONTRACTOR TO LOCATE ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND PROTECT THEM FROM DAMAGE.
 - ALL STORM GRATES SHALL CONSIST OF EITHER CAST IRON OR GALVANIZED STEEL.
 - ALL DISTURBED AREAS SHALL BE STABILIZED AS SOON AS POSSIBLE TO MINIMIZE EROSION.
 - CONTRACTOR SHALL COORDINATE THE REMOVAL/RELOCATION OF EXISTING FACILITIES (FENCING, GATES, POSTS, SIGNAGE, ETC.) WITH THE COUNTY.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY REQUIRED TEMPORARY DEWATERING PERMITS THROUGH THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP).
 - ANY TREE ROOTS INADVERTENTLY DAMAGED IN THE DEMOLITION, REMOVAL, AND RE-GRADING PROCESS SHALL BE CLEANLY SEVERED USING A SHARP PRUNING SAW OR LOPPERS TO PRESENT A CLEAN SMOOTH FACE. NO FRAYED OR SPLIT ROOTS SHALL BE LEFT WITHOUT CORRECTION.
 - TREE ROOTS EXPOSED DURING CONSTRUCTION SHALL HAVE A SUITABLE BROAD SPECTRUM FUNGICIDE APPLIED SUCH AS "SUBDUE MAX" (Mefenoxam) OR APPROVED EQUIV. THIS APPLICATION SHALL BE APPLIED AT LABELED RATES AND ACCORDING TO LABELED DIRECTIONS PRIOR TO THE INTRODUCTION OF ANY BACKFILL.
 - 1/2" WASHED SHELL SHALL BE A MINIMUM OF 6" THICK, WITH THE EXCEPTION OF THE DRIVEWAY/PARKING AREA WHICH SHALL BE 1-1/2" THICK (SEE WASHED SHELL PAVEMENT SECTION DETAIL).
 - THE CONTRACTOR MAY PLACE MULCH DIRECTLY ON TOP OF EXISTING SHELL MATERIAL ONCE FINISHED GRADE IS ESTABLISHED. WHERE SOD IS PROPOSED, THE EXISTING SHELL SHALL BE MINIMALLY EXCAVATED WHERE NEEDED TO PROVIDE A 3" LAYER OF CLEAN TOP SOIL UNDERNEATH THE SOD.

- TOPOGRAPHIC LEGEND**
- 00.00BC = BACK OF CURB
 - 00.00CL = CENTER LINE
 - 00.00DW = EDGE OF DRIVE
 - 00.00EC = EDGE OF CONCRETE/WALK
 - 00.00EP = EDGE OF PAVEMENT
 - 00.00ES = EDGE OF SHELL/LIMEROCK
 - 00.00FW = FENCE, BARS WIRE
 - 00.00EW = EDGE OF WATER
 - 00.00FB = FENCE, BOARD
 - 00.00FL = FLOW LINE
 - 00.00GB = GRADE BREAK
 - 00.00HW = HEADWALL
 - 00.00IN = INVERT OF PIPE
 - 00.00IB = RIVER BOTTOM
 - 00.00MC = MISCELLANEOUS
 - 00.00MW = MEAN HIGH WATER LINE
 - 00.00SW = EDGE OF CONCRETE/WALK
 - 00.00TB = TOP OF BANK
 - 00.00TS = TOE OF SLOPE
 - 00.00WD = WOOD DECK
 - 00.00 = GROUND ELEVATION
- NOTE: 00.00(O) denotes an elevation in feet with the decimal point being the location of the elevation (NOVD 1929).

- SYMBOLS LEGEND FOR EXISTING FACILITIES**
- [Symbol] = ELECTRICAL PANEL
 - [Symbol] = CLEAN OUT
 - [Symbol] = VALVE BOX
 - [Symbol] = FIRE HYDRANT
 - [Symbol] = METER
 - [Symbol] = MITERED END
 - [Symbol] = SIGN
 - [Symbol] = TELEPHONE RISER/METER
 - [Symbol] = CONCRETE UTILITY POLE
 - [Symbol] = ELECTRICAL BOX

- CONFLICTS LEGEND**
- [Symbol] = CONSTRUCT STORM SEWER UNDER EXISTING WATER & SEWER SERVICES
 - [Symbol] = CONSTRUCT STORM SEWER OVER EXISTING SANITARY SEWER SERVICE
 - [Symbol] = CONSTRUCT STORM SEWER UNDER EXISTING SANITARY SEWER SERVICE
 - [Symbol] = CONSTRUCT STORM SEWER UNDER EXISTING WATER & FIRE SERVICES
 - [Symbol] = CONSTRUCT STORM SEWER OVER EXISTING WATER SERVICES

- LEGEND**
- [Symbol] = POND/ DRY RETENTION AREA
 - [Symbol] = EXISTING POND
 - [Symbol] = WETLAND
 - [Symbol] = LITTORAL ZONE
 - [Symbol] = CONCRETE PAD/SIDEWALK
 - [Symbol] = EXISTING CONCRETE SIDEWALK
 - [Symbol] = EXISTING SHELL DRIVE
 - [Symbol] = PERVIOUS CONCRETE PLAZA
 - [Symbol] = EXISTING BUILDING
 - [Symbol] = 1/2" WASHED SHELL (SEE NOTE 9)
 - [Symbol] = EXISTING SHELL TO BE REMOVED & REPLACED WITH MULCH/SOD. SEE LANDSCAPE PLANS FOR SOD/MULCH LOCATIONS. (SEE NOTE 10)
 - [Symbol] = EXISTING DITCHES TO BE FILLED
 - [Symbol] = EXISTING ASPHALT, BASE & SUBGRADE (TO BE REMOVED)
 - [Symbol] = EXISTING ASPHALT TO BE MILLED AND REPLACED WITH A MINIMUM OF 1-1/2" TYPE S-III ASPHALT
- STRUCTURE NOTES**
- STR # 11
STORM MANHOLE (4' DIA.)
FDOT TYPE 11-7 (ALT A)
INDEX #200 & 201
(USF 170-E "STORM")
RIM ELEV = 9.90
INV NW = 1.17
INV NE = 6.68
INV S = 0.67
- STRUCTURE NOTES**
- STR # 18
FOOT TYPE 'D' INLET (INDEX 232)
GRATE ELEV = 6.00
INV S = 3.00
INV NE = 2.90
INV SE = 3.00
- STRUCTURE NOTES**
- STR # 19
FOOT TYPE 'J' INLET
GRATE ELEV = 7.40
INV N = 3.17
- STRUCTURE NOTES**
- STR # 20
FOOT TYPE 'D' INLET (INDEX 232)
GRATE ELEV = 6.00
INV S = 3.00
INV NE = 2.90
INV SE = 3.00
- STRUCTURE NOTES**
- STR # 21
FOOT TYPE 'D' INLET (INDEX 232)
GRATE ELEV = 6.00
INV S = 3.00
INV NE = 2.90
INV SE = 3.00
- STRUCTURE NOTES**
- STR # 22
FOOT TYPE 'D' INLET (INDEX 232)
GRATE ELEV = 6.00
INV S = 3.00
INV NE = 2.90
INV SE = 3.00
- STRUCTURE NOTES**
- STR # 23
FOOT TYPE 'D' INLET (INDEX 232)
GRATE ELEV = 6.00
INV S = 3.00
INV NE = 2.90
INV SE = 3.00
- STRUCTURE NOTES**
- STR # 24
FOOT TYPE 'D' INLET (INDEX 232)
GRATE ELEV = 6.00
INV S = 3.00
INV NE = 2.90
INV SE = 3.00
- STRUCTURE NOTES**
- STR # 25
STORM MANHOLE (4' DIA.)
FDOT TYPE 11-7 (ALT A)
INDEX #200 & 201
(USF 170-E "STORM")
RIM ELEV = 7.60
INV N = 0.29
INV NE = 1.00
INV S = 0.39
- STRUCTURE NOTES**
- STR # 26
FOOT TYPE 'D' INLET (INDEX 232)
GRATE ELEV = 6.00
INV S = 3.00
INV NE = 2.90
INV SE = 3.00
- STRUCTURE NOTES**
- STR # 27
FOOT TYPE 'D' INLET (INDEX 232)
GRATE ELEV = 6.00
INV S = 3.00
INV NE = 2.90
INV SE = 3.00
- STRUCTURE NOTES**
- STR # 28
FOOT TYPE 'D' INLET (INDEX 232)
GRATE ELEV = 6.00
INV S = 3.00
INV NE = 2.90
INV SE = 3.00
- STRUCTURE NOTES**
- STR # 29
FOOT TYPE 'D' INLET (INDEX 232)
GRATE ELEV = 6.00
INV S = 3.00
INV NE = 2.90
INV SE = 3.00
- STRUCTURE NOTES**
- STR # 30
FOOT TYPE 'D' INLET (INDEX 232)
GRATE ELEV = 6.00
INV S = 3.00
INV NE = 2.90
INV SE = 3.00
- STRUCTURE NOTES**
- STR # 31
FOOT TYPE 'D' INLET (INDEX 232)
GRATE ELEV = 6.00
INV S = 3.00
INV NE = 2.90
INV SE = 3.00
- STRUCTURE NOTES**
- STR # 32
FOOT TYPE 'D' INLET (INDEX 232)
GRATE ELEV = 6.00
INV S = 3.00
INV NE = 2.90
INV SE = 3.00
- STRUCTURE NOTES**
- STR # 33
FOOT TYPE 'D' INLET (INDEX 232)
GRATE ELEV = 6.00
INV S = 3.00
INV NE = 2.90
INV SE = 3.00
- STRUCTURE NOTES**
- STR # 34
FOOT TYPE 'D' INLET (INDEX 232)
GRATE ELEV = 6.00
INV S = 3.00
INV NE = 2.90
INV SE = 3.00
- STRUCTURE NOTES**
- STR # 35
FOOT TYPE 'D' INLET (INDEX 232)
GRATE ELEV = 6.00
INV S = 3.00
INV NE = 2.90
INV SE = 3.00
- STRUCTURE NOTES**
- STR # 36
FOOT TYPE 'D' INLET (INDEX 232)
GRATE ELEV = 6.00
INV S = 3.00
INV NE = 2.90
INV SE = 3.00
- STRUCTURE NOTES**
- STR # 37
FOOT TYPE 'D' INLET (INDEX 232)
GRATE ELEV = 6.00
INV S = 3.00
INV NE = 2.90
INV SE = 3.00
- STRUCTURE NOTES**
- STR # 38
FOOT TYPE 'D' INLET (INDEX 232)
GRATE ELEV = 6.00
INV S = 3.00
INV NE = 2.90
INV SE = 3.00
- STRUCTURE NOTES**
- STR # 39
FOOT TYPE 'D' INLET (INDEX 232)
GRATE ELEV = 6.00
INV S = 3.00
INV NE = 2.90
INV SE = 3.00
- STRUCTURE NOTES**
- STR # 40
FOOT TYPE 'D' INLET (INDEX 232)
GRATE ELEV = 6.00
INV S = 3.00
INV NE = 2.90
INV SE = 3.00
- STRUCTURE NOTES**
- STR # 41
FOOT TYPE 'D' INLET (INDEX 232)
GRATE ELEV = 6.00
INV S = 3.00
INV NE = 2.90
INV SE = 3.00
- STRUCTURE NOTES**
- STR # 42
FOOT TYPE 'D' INLET (INDEX 232)
GRATE ELEV = 6.00
INV S = 3.00
INV NE = 2.90
INV SE = 3.00
- STRUCTURE NOTES**
- STR # 43
FOOT TYPE 'D' INLET (INDEX 232)
GRATE ELEV = 6.00
INV S = 3.00
INV NE = 2.90
INV SE = 3.00
- STRUCTURE NOTES**
- STR # 44
FOOT TYPE 'D' INLET (INDEX 232)
GRATE ELEV = 6.00
INV S = 3.00
INV NE = 2.90
INV SE = 3.00
- STRUCTURE NOTES**
- STR # 45
FOOT TYPE 'D' INLET (INDEX 232)
GRATE ELEV = 6.00
INV S = 3.00
INV NE = 2.90
INV SE = 3.00
- STRUCTURE NOTES**
- STR # 46
FOOT TYPE 'D' INLET (INDEX 232)
GRATE ELEV = 6.00
INV S = 3.00
INV NE = 2.90
INV SE = 3.00
- STRUCTURE NOTES**
- STR # 47
FOOT TYPE 'D' INLET (INDEX 232)
GRATE ELEV = 6.00
INV S = 3.00
INV NE = 2.90
INV SE = 3.00
- STRUCTURE NOTES**
- STR # 48
FOOT TYPE 'D' INLET (INDEX 232)
GRATE ELEV = 6.00
INV S = 3.00
INV NE = 2.90
INV SE = 3.00
- STRUCTURE NOTES**
- STR # 49
FOOT TYPE 'D' INLET (INDEX 232)
GRATE ELEV = 6.00
INV S = 3.00
INV NE = 2.90
INV SE = 3.00
- STRUCTURE NOTES**
- STR # 50
FOOT TYPE 'D' INLET (INDEX 232)
GRATE ELEV = 6.00
INV S = 3.00
INV NE = 2.90
INV SE = 3.00

MATCH LINE - SEE SHEET 5

For Reference Only

REV NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:
H	ADD EXISTING FT HAMER ROAD WATER MAIN INFORMATION PER COUNTY REQUEST	3/18/15	DJB/89366		
G	REV STORM PIPE TRENCH STR 20/STR 18; CHANGE STR 18 TO TYPE 'D' INLET; REVISE NOTE 1	1/14/15	ATO/89520		
B	ADD NOTE 10; ADD BUFFER ENCRHMT AND COMP AREAS FOR PED. CROSSING	10/18/12	DJB/89366		
	REVISE PAVERS TO PERVIOUS CONCRETE				
A	ADD TOB AREA TO DRY RETENTION AREA #1; ADD FLOODPLAIN COMP LAKE BC INFORMATION	9/7/12	DJB/89366		

Wilson Miller Stantec

6900 Professional Parkway East, Sarasota, FL 34240
Phone 941-907-6800 • Fax 941-907-4910
Certificate of Authorization #43 • FL Lic. # LC-0000170 • www.stantec.com

CLIENT: MANATEE BOARD OF COUNTY COMMISSIONERS

PROJECT: FT. HAMER PARK, PHASE II

DATE: NOVEMBER 2011

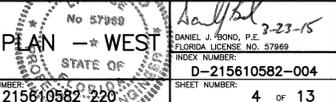
TITLE: PAVING AND DRAINAGE PLAN - WEST

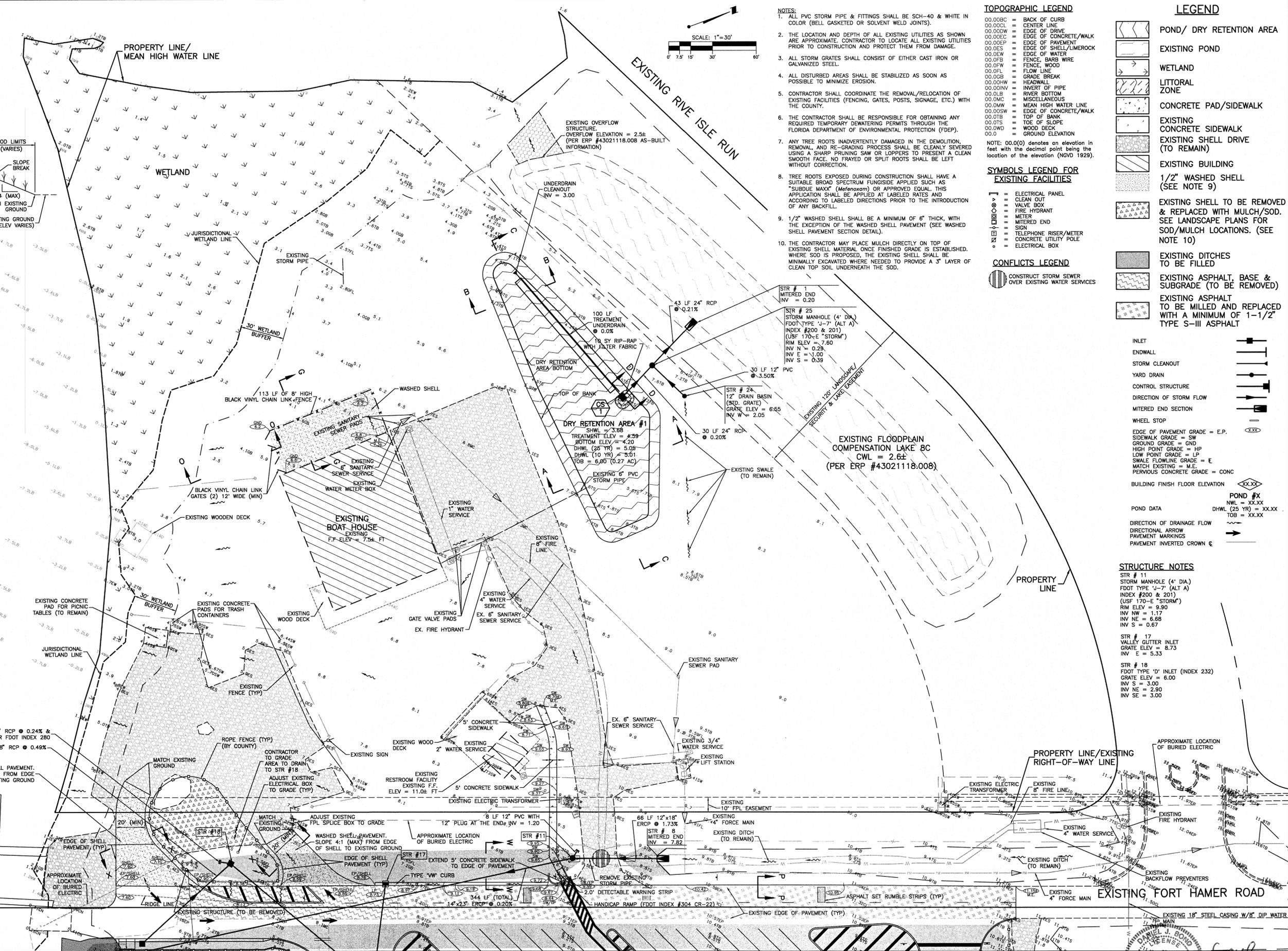
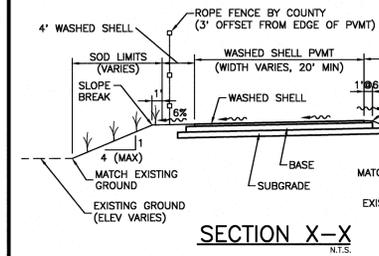
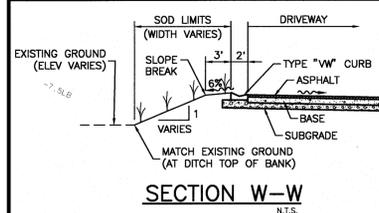
INDEX NUMBER: N/A

CROSS REFERENCE FILE NO.: 215610582-220

PROJECT NUMBER: 215610582-220

SHEET NUMBER: 4 OF 13





- NOTES:**
- ALL PVC STORM PIPE & FITTINGS SHALL BE SCH-40 & WHITE IN COLOR (BELL GASKETED OR SOLVENT WELD JOINTS).
 - THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AS SHOWN ARE APPROXIMATE. CONTRACTOR TO LOCATE ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND PROTECT THEM FROM DAMAGE.
 - ALL STORM GRATES SHALL CONSIST OF EITHER CAST IRON OR GALVANIZED STEEL.
 - ALL DISTURBED AREAS SHALL BE STABILIZED AS SOON AS POSSIBLE TO MINIMIZE EROSION.
 - CONTRACTOR SHALL COORDINATE THE REMOVAL/RELOCATION OF EXISTING FACILITIES (FENCING, GATES, POSTS, SIGNAGE, ETC.) WITH THE COUNTY.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY REQUIRED TEMPORARY DEWATERING PERMITS THROUGH THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP).
 - ANY TREE ROOTS INADVERTENTLY DAMAGED IN THE DEMOLITION, REMOVAL, AND RE-GRADING PROCESS SHALL BE CLEANLY SEVERED USING A SHARP PRUNING SAW OR LOPPERS TO PRESENT A CLEAN SMOOTH FACE. NO FRAYED OR SPLIT ROOTS SHALL BE LEFT WITHOUT CORRECTION.
 - TREE ROOTS EXPOSED DURING CONSTRUCTION SHALL HAVE A SUITABLE BROAD SPECTRUM FUNGICIDE APPLIED SUCH AS "SUBDU MAX" (Mefenoxam) OR APPROVED EQUIVALENT. THIS APPLICATION SHALL BE APPLIED AT LABELED RATES AND ACCORDING TO LABELED DIRECTIONS PRIOR TO THE INTRODUCTION OF ANY BACKFILL.
 - 1/2" WASHED SHELL SHALL BE A MINIMUM OF 6" THICK, WITH THE EXCEPTION OF THE WASHED SHELL PAVEMENT (SEE WASHED SHELL PAVEMENT SECTION DETAIL).
 - THE CONTRACTOR MAY PLACE MULCH DIRECTLY ON TOP OF EXISTING SHELL MATERIAL ONCE FINISHED GRADE IS ESTABLISHED. WHERE SOIL IS PROPOSED, THE EXISTING SHELL SHALL BE MINIMALLY EXCAVATED WHERE NEEDED TO PROVIDE A 3" LAYER OF CLEAN TOP SOIL UNDERNEATH THE SOD.

- TOPOGRAPHIC LEGEND**
- 00.00BC = BACK OF CURB
 - 00.00CL = CENTER LINE
 - 00.00DW = EDGE OF DRIVE
 - 00.00EC = EDGE OF CONCRETE/WALK
 - 00.00EP = EDGE OF PAVEMENT
 - 00.00ES = EDGE OF SHELL/LIMEROCK
 - 00.00EW = EDGE OF WATER
 - 00.00FB = FENCE, BARS WIRE
 - 00.00FW = FENCE, WOOD
 - 00.00FL = FLOW LINE
 - 00.00GB = GRADE BREAK
 - 00.00HW = HEADWALL
 - 00.00IN = INVERT OF PIPE
 - 00.00BO = BOTTOM
 - 00.00MC = MISCELLANEOUS
 - 00.00MW = MEAN HIGH WATER LINE
 - 00.00SW = EDGE OF CONCRETE/WALK
 - 00.00TB = TOP OF BANK
 - 00.00TS = TOE OF SLOPE
 - 00.00WD = WOOD DECK
 - 00.00 = GROUND ELEVATION
- NOTE: 00.00() denotes an elevation in feet with the decimal point being the location of the elevation (NOVD 1929).

- SYMBOLS LEGEND FOR EXISTING FACILITIES**
- ⊞ = ELECTRICAL PANEL
 - ⊞ = CLEAN OUT
 - ⊞ = VALVE BOX
 - ⊞ = FIRE HYDRANT
 - ⊞ = METER
 - ⊞ = MITERED END
 - ⊞ = SIGN
 - ⊞ = TELEPHONE RISER/METER
 - ⊞ = CONCRETE UTILITY POLE
 - ⊞ = ELECTRICAL BOX

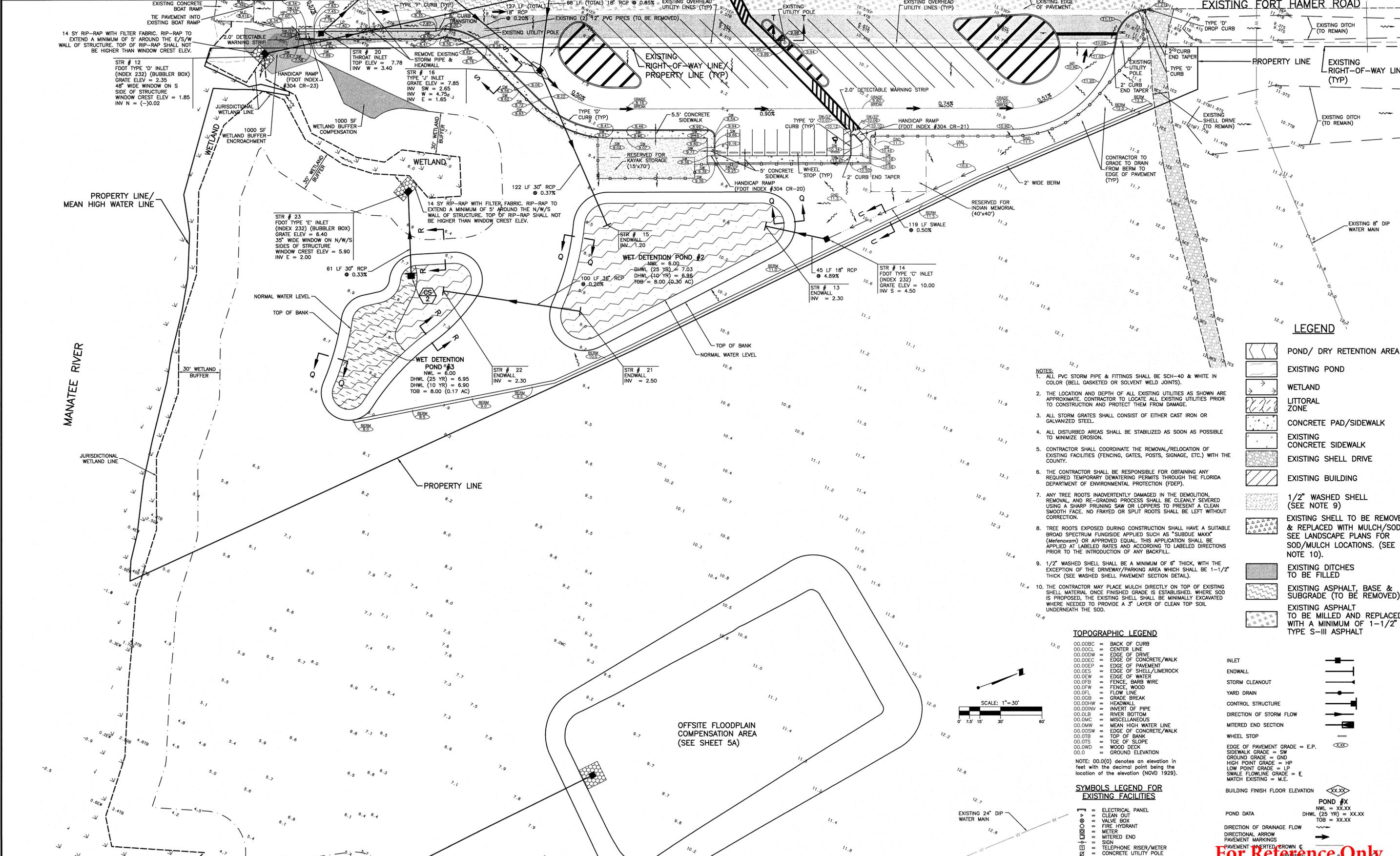
- CONFLICTS LEGEND**
- ⊞ = CONSTRUCT STORM SEWER OVER EXISTING WATER SERVICES

- LEGEND**
- ▨ = POND/ DRY RETENTION AREA
 - ▨ = EXISTING POND
 - ▨ = WETLAND
 - ▨ = LITTORAL ZONE
 - ▨ = CONCRETE PAD/SIDEWALK
 - ▨ = EXISTING CONCRETE SIDEWALK
 - ▨ = EXISTING SHELL DRIVE (TO REMAIN)
 - ▨ = EXISTING BUILDING
 - ▨ = 1/2" WASHED SHELL (SEE NOTE 9)
 - ▨ = EXISTING SHELL TO BE REMOVED & REPLACED WITH MULCH/SOD. SEE LANDSCAPE PLANS FOR SOD/MULCH LOCATIONS. (SEE NOTE 10)
 - ▨ = EXISTING DITCHES TO BE FILLED
 - ▨ = EXISTING ASPHALT, BASE & SUBGRADE (TO BE REMOVED)
 - ▨ = EXISTING ASPHALT TO BE MILLED AND REPLACED WITH A MINIMUM OF 1-1/2" TYPE S-III ASPHALT
- STRUCTURE NOTES**
- STR # 11: STORM MANHOLE (4' DIA.) FDOT TYPE "J-7" (ALT A) INDEX #200 & 201 (USF 170-E "STORM") RIM ELEV = 9.90 INV NW = 1.17 INV NE = 6.68 INV S = 0.67
 - STR # 17: VALLEY GUTTER INLET GRATE ELEV = 8.73 INV E = 5.33
 - STR # 18: FDOT TYPE "D" INLET (INDEX 232) GRATE ELEV = 8.00 INV S = 3.00 INV NE = 2.90 INV SE = 3.00
- INLET**
- ENDWALL
 - STORM CLEANOUT
 - YARD DRAIN
 - CONTROL STRUCTURE
 - DIRECTION OF STORM FLOW
 - MITERED END SECTION
 - WHEEL STOP
 - EDGE OF PAVEMENT GRADE = E.P.
 - SIDEWALK GRADE = SW
 - GROUND GRADE = GND
 - HIGH POINT GRADE = HP
 - LOW POINT GRADE = LP
 - SWALE FLOWLINE GRADE = E
 - MATCH EXISTING = M.E.
 - PERVIOUS CONCRETE GRADE = CONC
 - BUILDING FINISH FLOOR ELEVATION
 - POND #X: NWL = XX.XX, DHWL (25 YR) = XX.XX, TOB = XX.XX
 - DIRECTION OF DRAINAGE FLOW
 - DIRECTIONAL ARROW
 - PAVEMENT MARKINGS
 - PAVEMENT INVERTED CROWN

MATCH LINE - SEE SHEET 5*

Wilson Miller Stantec 6900 Professional Parkway East, Sarasota, FL 34240 Phone 941-907-6900 • Fax 941-907-6910 Certificate of Authorization #43 • FL Lic. # LC-000070 • www.stantec.com		CLIENT: MANATEE BOARD OF COUNTY COMMISSIONERS PROJECT: FT. HAMER PARK, PHASE II	DATE: NOVEMBER 2011 HORIZONTAL SCALE: 1"=30' VERTICAL SCALE: N/A SEC: TWP: RGE: 17 34S 19E CROSS REFERENCE FILE NO.: 215610582-220 PROJECT NUMBER: 215610582-004x SHEET NUMBER: 4* OF 13
ACTIVITY DESIGNED BY: ATO/B9520 DRAWN BY: ATO/B9520 CHECKED BY: CONTRACT ADMIN. BY: WM APPROVED BY:	INITIALS/EMP. NO. DATE 12/14/11	DATE: NOVEMBER 2011 TITLE: PAVING AND DRAINAGE PLAN - WEST (PHASE IIA IMPROVEMENTS ONLY) INDEX NUMBER: D-215610582-004x	PROJECT NUMBER: 215610582-004x SHEET NUMBER: 4* OF 13

MATCH LINE - SEE SHEET 4



- NOTES:**
1. ALL PVC STORM PIPE & FITTINGS SHALL BE SCH-40 & WHITE IN COLOR (BELL GASKETED OR SOLVENT WELD JOINTS).
 2. THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AS SHOWN ARE APPROXIMATE. CONTRACTOR TO LOCATE ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND PROTECT THEM FROM DAMAGE.
 3. ALL STORM GRATES SHALL CONSIST OF EITHER CAST IRON OR GALVANIZED STEEL.
 4. ALL DISTURBED AREAS SHALL BE STABILIZED AS SOON AS POSSIBLE TO MINIMIZE EROSION.
 5. CONTRACTOR SHALL COORDINATE THE REMOVAL/RELOCATION OF EXISTING FACILITIES (FENCING, GATES, POSTS, SIGNAGE, ETC.) WITH THE COUNTY.
 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY REQUIRED TEMPORARY DEWATERING PERMITS THROUGH THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP).
 7. ANY TREE ROOTS INADVERTENTLY DAMAGED IN THE DEMOLITION, REMOVAL, AND RE-GRADING PROCESS SHALL BE CLEANLY SEVERED USING A SHARP PRUNING SAW OR LOPPERS TO PRESENT A CLEAN SMOOTH FACE. NO FRAYED OR SPLIT ROOTS SHALL BE LEFT WITHOUT CORRECTION.
 8. TREE ROOTS EXPOSED DURING CONSTRUCTION SHALL HAVE A SUITABLE BROAD SPECTRUM FUNGICIDE APPLIED SUCH AS "SUBDUE MAXX" (Mefenoxam) OR APPROVED EQUAL. THIS APPLICATION SHALL BE APPLIED AT LABELED RATES AND ACCORDING TO LABELED DIRECTIONS PRIOR TO THE INTRODUCTION OF ANY BACKFILL.
 9. 1/2" WASHED SHELL SHALL BE A MINIMUM OF 6" THICK, WITH THE EXCEPTION OF THE DRIVEWAY/PARKING AREA WHICH SHALL BE 1-1/2" THICK (SEE WASHED SHELL PAVEMENT SECTION DETAIL).
 10. THE CONTRACTOR MAY PLACE MULCH DIRECTLY ON TOP OF EXISTING SHELL MATERIAL ONCE FINISHED GRADE IS ESTABLISHED, WHERE SOD IS PROPOSED, THE EXISTING SHELL SHALL BE MINIMALLY EXCAVATED WHERE NEEDED TO PROVIDE A 3" LAYER OF CLEAN TOP SOIL UNDERNEATH THE SOD.

TOPOGRAPHIC LEGEND

- 00.00BC = BACK OF CURB
- 00.00CL = CENTER LINE
- 00.00ED = EDGE OF DRIVE
- 00.00EC = EDGE OF CONCRETE/WALK
- 00.00EP = EDGE OF PAVEMENT
- 00.00ES = EDGE OF SHELL/LIMEROCK
- 00.00EW = EDGE OF WATER
- 00.00FB = FENCE, BARB WIRE
- 00.00FW = FENCE, WOOD
- 00.00FL = FLOW LINE
- 00.00GB = GRADE BREAK
- 00.00HW = HEADWALL
- 00.00IW = INVERT OF PIPE
- 00.00LB = RIVER BOTTOM
- 00.00MC = MISCELLANEOUS
- 00.00MW = MEAN HIGH WATER LINE
- 00.00SW = EDGE OF CONCRETE/WALK
- 00.00TB = TOP OF BANK
- 00.00TS = TOE OF SLOPE
- 00.00WD = WOOD DECK
- 00.0 = GROUND ELEVATION

NOTE: 00.0(0) denotes an elevation in feet with the decimal point being the location of the elevation (NGVD 1929).

SYMBOLS LEGEND FOR EXISTING FACILITIES

- = ELECTRICAL PANEL
- = CLEAN OUT
- = VALVE BOX
- = FIRE HYDRANT
- = METER
- = MITERED END
- = SIGN
- = TELEPHONE RISER/METER
- = CONCRETE UTILITY POLE

- LEGEND**
- [Pattern] POND/ DRY RETENTION AREA
 - [Pattern] EXISTING POND
 - [Pattern] WETLAND
 - [Pattern] LITTORAL ZONE
 - [Pattern] CONCRETE PAD/SIDEWALK
 - [Pattern] EXISTING CONCRETE SIDEWALK
 - [Pattern] EXISTING SHELL DRIVE
 - [Pattern] EXISTING BUILDING
 - [Pattern] 1/2" WASHED SHELL (SEE NOTE 9)
 - [Pattern] EXISTING SHELL TO BE REMOVED & REPLACED WITH MULCH/SOD. SEE LANDSCAPE PLANS FOR SOD/MULCH LOCATIONS. (SEE NOTE 10).
 - [Pattern] EXISTING DITCHES TO BE FILLED
 - [Pattern] EXISTING ASPHALT, BASE & SUBGRADE (TO BE REMOVED)
 - [Pattern] EXISTING ASPHALT TO BE MILLED AND REPLACED WITH A MINIMUM OF 1-1/2" TYPE S-III ASPHALT

- [Symbol] INLET
- [Symbol] ENDWALL
- [Symbol] STORM CLEANOUT
- [Symbol] YARD DRAIN
- [Symbol] CONTROL STRUCTURE
- [Symbol] DIRECTION OF STORM FLOW
- [Symbol] MITERED END SECTION
- [Symbol] WHEEL STOP
- [Symbol] EDGE OF PAVEMENT GRADE = E.P.
- [Symbol] SIDEWALK GRADE = SW
- [Symbol] GROUND GRADE = GND
- [Symbol] HIGH POINT GRADE = HP
- [Symbol] LOW POINT GRADE = LP
- [Symbol] SWALE FLOWLINE GRADE = E
- [Symbol] MATCH EXISTING = M.E.
- [Symbol] BUILDING FINISH FLOOR ELEVATION
- [Symbol] POND #X
- [Symbol] NWL = XX.XX
- [Symbol] DHWL (25 YR) = XX.XX
- [Symbol] TOB = XX.XX
- [Symbol] DIRECTION OF DRAINAGE FLOW
- [Symbol] DIRECTIONAL ARROW
- [Symbol] PAVEMENT MARKINGS
- [Symbol] PAVEMENT REFERRED CROWN C

NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:
H	ADD EXISTING FT HAMER ROAD WATER MAIN INFORMATION PER COUNTY REQUEST	3/18/15	DJB/89366		
G	REV STORM PIPE BETWEEN STR 20/STR 18; REV NOTE 1	01/14/15	ATO/89520		
E	REVISE OFFSITE FLOODPLAIN COMPENSATION AREA	10/29/13	ATO/89520		
B	ADD NOTE 10	10/18/12	DJB/89366		
A	ADD TOB AREA TO POND #2 AND POND #3; REVISED FLOODPLAIN COMP AREA	9/7/12	DJB/89366		

NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:

Wilson Miller Stantec

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CLIENT:	MANATEE BOARD OF COUNTY COMMISSIONERS
PROJECT:	FT. HAMER PARK, PHASE II

DATE:	NOVEMBER 2011	TITLE:	PAVING AND DRAINAGE PLAN - EAST
HORIZONTAL SCALE:	1"=30'	INDEX NUMBER:	D-215610582-005
VERTICAL SCALE:	N/A	CROSS REFERENCE FILE NO.:	215610582_220
SEC. TYP. REE:	17 345 19E	PROJECT NUMBER:	215610582_220
		SHEET NUMBER:	5 OF 13

For Reference Only

DANIEL J. FOND, P.E.
 FLORIDA LICENSE NO. 57869

MATCH LINE - SEE SHEET 4*

EXISTING FORT HAMER ROAD

EXISTING CONCRETE BOAT RAMP
THE PAVEMENT INTO EXISTING BOAT RAMP
14 SY RIP-RAP WITH FILTER FABRIC. RIP-RAP TO EXTEND A MINIMUM OF 5' AROUND THE E/S/W WALL OF STRUCTURE. TOP OF RIP-RAP SHALL NOT BE HIGHER THAN WINDOW CREST ELEV.

STR # 12
FDOT TYPE 'D' INLET
(INDEX 232) (BUBBLER BOX)
GRATE ELEV = 2.35
48" WIDE WINDOW ON S
SIDE OF STRUCTURE
WINDOW CREST ELEV = 1.85
INV N = (-)0.02

STR # 20
THROAT INLET
TOP ELEV = 7.78
INV W = 3.40

STR # 16
TYPE 'V' INLET
GRATE ELEV = 7.85
INV W = 4.75
INV E = 1.65

STR # 23
FDOT TYPE 'E' INLET
(INDEX 232) (BUBBLER BOX)
GRATE ELEV = 6.40
35" WIDE WINDOW ON N/W/S
SIDES OF STRUCTURE
WINDOW CREST ELEV = 5.90
INV E = 2.00

STR # 14
FDOT TYPE 'C' INLET
(INDEX 232)
GRATE ELEV = 10.00
INV S = 4.50

STR # 22
ENDWALL
INV = 2.30

STR # 21
ENDWALL
INV = 2.50

STR # 13
ENDWALL
INV = 2.30

STR # 15
ENDWALL
INV = 1.20

STR # 14
FDOT TYPE 'C' INLET
(INDEX 232)
GRATE ELEV = 10.00
INV S = 4.50

STR # 13
ENDWALL
INV = 2.30

STR # 14
FDOT TYPE 'C' INLET
(INDEX 232)
GRATE ELEV = 10.00
INV S = 4.50

STR # 13
ENDWALL
INV = 2.30

STR # 14
FDOT TYPE 'C' INLET
(INDEX 232)
GRATE ELEV = 10.00
INV S = 4.50

STR # 13
ENDWALL
INV = 2.30

STR # 14
FDOT TYPE 'C' INLET
(INDEX 232)
GRATE ELEV = 10.00
INV S = 4.50

STR # 13
ENDWALL
INV = 2.30

STR # 14
FDOT TYPE 'C' INLET
(INDEX 232)
GRATE ELEV = 10.00
INV S = 4.50

STR # 13
ENDWALL
INV = 2.30

STR # 14
FDOT TYPE 'C' INLET
(INDEX 232)
GRATE ELEV = 10.00
INV S = 4.50

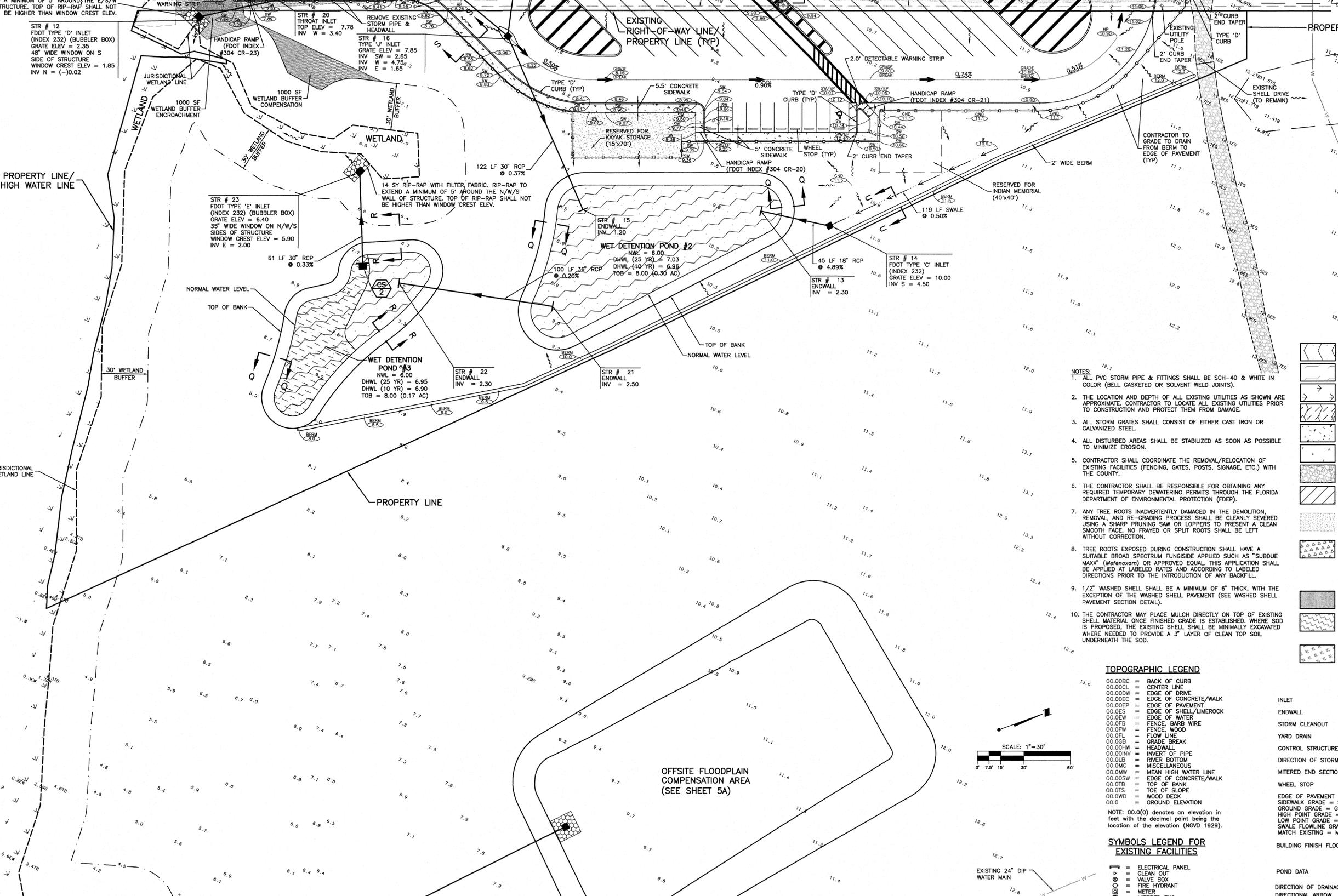
STR # 13
ENDWALL
INV = 2.30

PROPERTY LINE/
MEAN HIGH WATER LINE

MANATEE RIVER

JURISDICTIONAL
WETLAND LINE

WETLAND
1000 SF
WETLAND BUFFER
ENCROACHMENT



LEGEND

- POND/ DRY RETENTION AREA
- EXISTING POND
- WETLAND
- LITTORAL ZONE
- CONCRETE PAD/SIDEWALK
- EXISTING CONCRETE SIDEWALK
- EXISTING SHELL DRIVE
- EXISTING BUILDING
-
- EXISTING SHELL TO BE REMOVED & REPLACED WITH MULCH/SOD. SEE LANDSCAPE PLANS FOR SOD/MULCH LOCATIONS. (SEE NOTE 10).
- EXISTING DITCHES TO BE FILLED
- EXISTING ASPHALT, BASE & SUBGRADE (TO BE REMOVED)
-

- NOTES:
1. ALL PVC STORM PIPE & FITTINGS SHALL BE SCH-40 & WHITE IN COLOR (BELL GASKETED OR SOLVENT WELD JOINTS).
 2. THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AS SHOWN ARE APPROXIMATE. CONTRACTOR TO LOCATE ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND PROTECT THEM FROM DAMAGE.
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TOPOGRAPHIC LEGEND

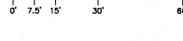
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- 00.00TB = TOP OF BANK
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- 00.00WD = WOOD DECK
- 00.00 = GROUND ELEVATION

SYMBOLS LEGEND FOR EXISTING FACILITIES

- ELECTRICAL PANEL
- CLEAN OUT
- VALVE BOX
- FIRE HYDRANT
- METER
- MITERED END
- SIGN
- TELEPHONE RISER/METER
- CONCRETE UTILITY POLE

- INLET
- ENDWALL
- STORM CLEANOUT
- YARD DRAIN
- CONTROL STRUCTURE
- DIRECTION OF STORM FLOW
- MITERED END SECTION
- WHEEL STOP
- EDGE OF PAVEMENT GRADE = E.P.
- SIDEWALK GRADE = SW
- GROUND GRADE = GND
- HIGH POINT GRADE = HP
- LOW POINT GRADE = LP
- SWALE FLOWLINE GRADE = E
- MATCH EXISTING = M.E.
- BUILDING FINISH FLOOR ELEVATION
- POND #X
- POND DATA
- DIRECTION OF DRAINAGE FLOW
- DIRECTIONAL ARROW
- PAVEMENT MARKINGS
- PAVEMENT INVERTED CROWN

SCALE: 1"=30'



EXISTING 24" DIP WATER MAIN

DESIGNED BY:	ACTIVITY	INITIALS/EMP. NO.	DATE
DRAWN BY:	CHECKED BY:	ATO/89520	12/14/11
CHECKED BY:	CONTRACT ADMIN. BY:		
WM APPROVED BY:			

Wilson Miller Stantec

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CLIENT: MANATEE BOARD OF COUNTY COMMISSIONERS

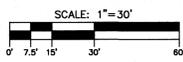
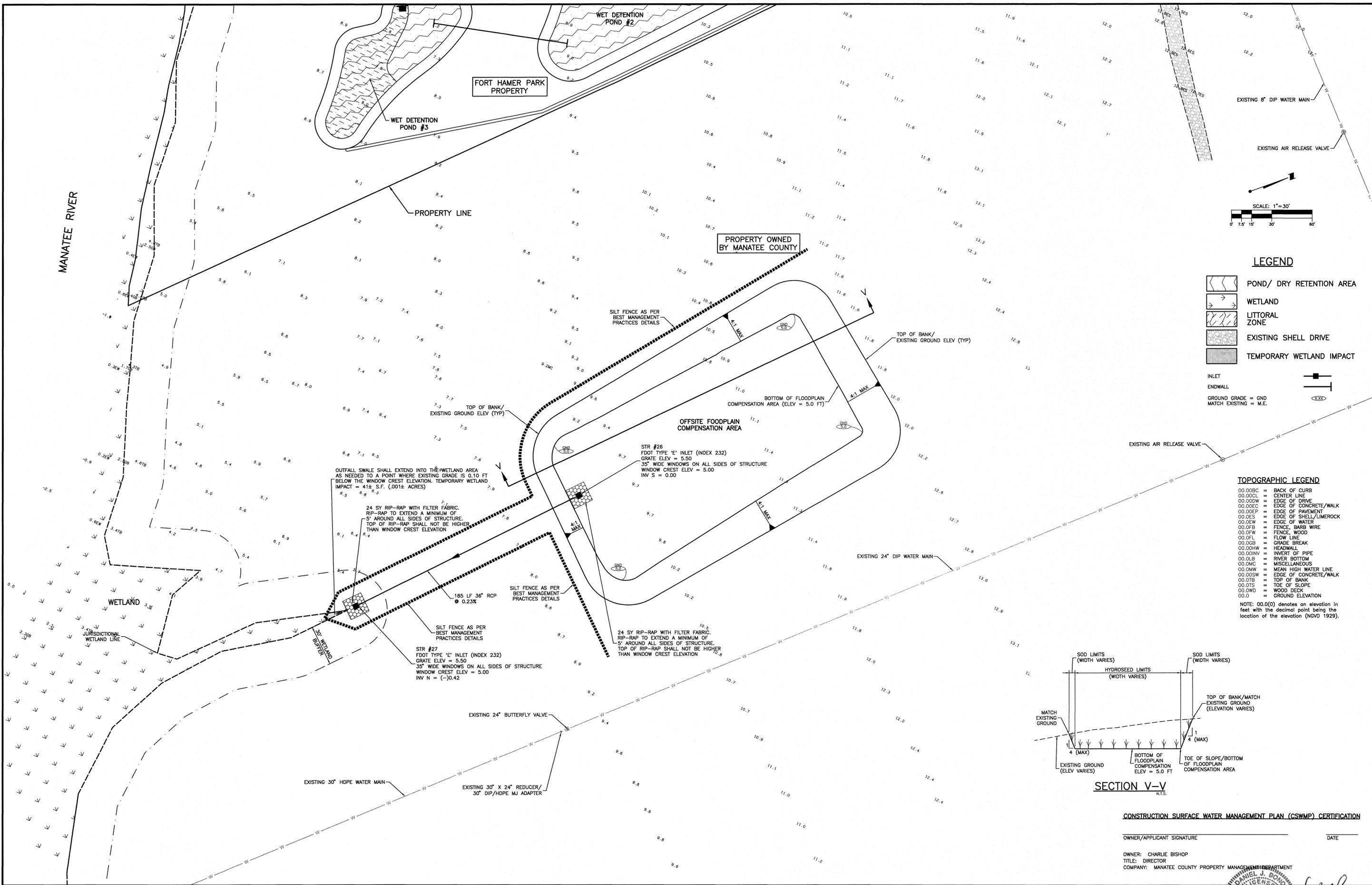
PROJECT: FT. HAMER PARK, PHASE II

DATE: NOVEMBER 2011

TITLE: PAVING AND DRAINAGE PLAN - EAST (PHASE IIA IMPROVEMENTS ONLY)

PROJECT NUMBER: 215610582-220

5* OF 13

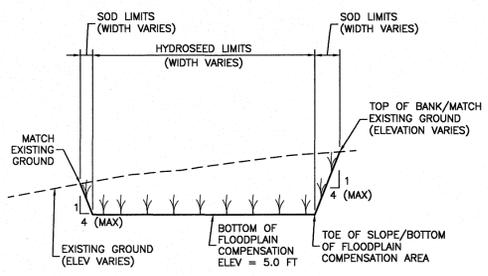


LEGEND

- POND/ DRY RETENTION AREA
- WETLAND
- LITTORAL ZONE
- EXISTING SHELL DRIVE
- TEMPORARY WETLAND IMPACT
- INLET
- ENDWALL
- GROUND GRADE = GND
- MATCH EXISTING = M.E.

TOPOGRAPHIC LEGEND

- 00.00BC = BACK OF CURB
 - 00.00CL = CENTER LINE
 - 00.00DW = EDGE OF DRIVE
 - 00.00EC = EDGE OF CONCRETE/WALK
 - 00.00EP = EDGE OF PAVEMENT
 - 00.00ES = EDGE OF SHELL/LIMEROCK
 - 00.00EW = EDGE OF WATER
 - 00.00FB = FENCE, BARB WIRE
 - 00.00FW = FENCE, WOOD
 - 00.00FL = FLOW LINE
 - 00.00GB = GRADE BREAK
 - 00.00HW = HEADWALL
 - 00.00INV = INVERT OF PIPE
 - 00.00LB = RIVER BOTTOM
 - 00.00MC = MISCELLANEOUS
 - 00.00MW = MEAN HIGH WATER LINE
 - 00.00SW = EDGE OF CONCRETE/WALK
 - 00.00TB = TOP OF BANK
 - 00.00TS = TOE OF SLOPE
 - 00.00WD = WOOD DECK
 - 00.0 = GROUND ELEVATION
- NOTE: 00.0(0) denotes an elevation in feet with the decimal point being the location of the elevation (NGVD 1929).



SECTION V-V
N.T.S.

CONSTRUCTION SURFACE WATER MANAGEMENT PLAN (CSWMP) CERTIFICATION

OWNER/APPLICANT SIGNATURE _____ DATE _____

OWNER: CHARLIE BISHOP
TITLE: DIRECTOR
COMPANY: MANATEE COUNTY PROPERTY MANAGEMENT DEPARTMENT

REV NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:
H	ADD EXISTING FT HAMER ROAD WATER MAIN INFORMATION PER COUNTY REQUEST	3/18/15	DJB/89366		
F	ADD TEMPORARY WETLAND IMPACT ACREAGE AT OUTFALL SWALE	11/26/13	DJB/89366		
E	REVISE FLOODPLAIN COMPENSATION AREA	10/29/13	ATO/89520		
A	REVISE FLOODPLAIN COMP BOTTOM ELEV; REVISE SECTION V-V; ADD STRS 26/27	9/19/12	DJB/89366		

Wilson Miller Stantec

6900 Professional Parkway East, Sarasota, FL 34240
Phone 941-907-6800 • Fax 941-907-6910
Certificate of Authorization #43 • FL Lic # LC-000170 • www.stantec.com

CLIENT: MANATEE BOARD OF COUNTY COMMISSIONERS

PROJECT: FT. HAMER PARK, PHASE II

DATE: JUNE 2012
HORIZONTAL SCALE: 1"=30'
VERTICAL SCALE: N/A

TITLE: OFFSITE FLOODPLAIN COMPENSATION PLAN AND DETAILS

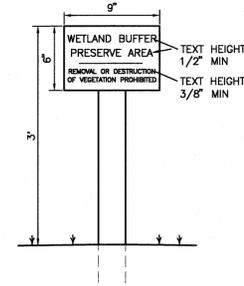
INDEX NUMBER: D-215610582-005A

CROSS REFERENCE FILE NO.: 215610582-220

SHEET NUMBER: 5A OF 13

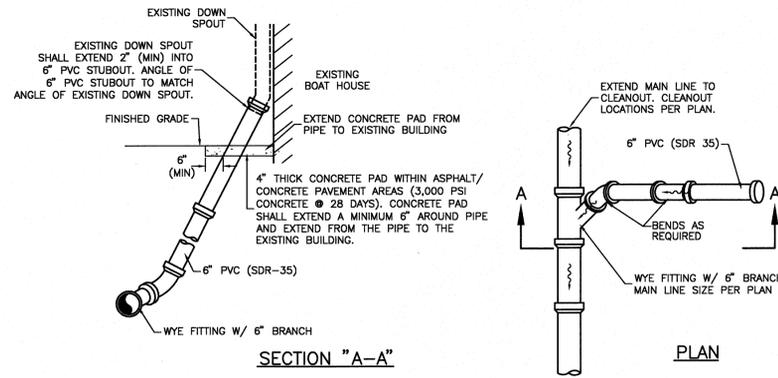
GENERAL SITE CONSTRUCTION NOTES:

1. THERE SHALL BE NO CHANGE OR DEVIATION FROM THESE PLANS WITHOUT PRIOR APPROVAL BY THE ENGINEER.
2. ALL CLEARING AND GRUBBING DEBRIS TO BE BURNED OR REMOVED FROM SITE AND IS PART OF CLEARING AND GRUBBING ITEM. A BURN PERMIT IS REQUIRED FROM THE ENVIRONMENTAL MANAGEMENT DEPARTMENT IF BURNING IS TO OCCUR.
3. ALL PROPOSED GROUND ELEVATIONS ARE FINISHED SOD ELEVATIONS. FINISH EARTHWORK GRADING SHALL BE 0.2 FEET BELOW ELEVATIONS SHOWN TO ALLOW FOR SOD THICKNESS.
4. SODDING INCLUDES MAINTAINING SLOPES AND SOD UNTIL COMPLETION AND ACCEPTANCE OF TOTAL PROJECT OR GROWTH IS ESTABLISHED, WHICHEVER COMES LAST. UNTIL THEN, ALL EROSION, SILTATION, AND MAINTENANCE OF GRADES AND GRASS IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. CERTAIN TREES ARE DESIGNATED BY THE OWNER TO BE SAVED AND PROTECTED BY THE CONTRACTOR. IT IS ASSUMED THESE TREES ARE HEALTHY AND ARE EXPECTED TO BE PART OF THE LANDSCAPE DEVELOPMENT. THEREFORE, IF ANY TREE(S) ARE DAMAGED BY CONSTRUCTION OPERATIONS OR BY OTHER MEANS (EXCLUDING LIGHTNING, WINDSTORM AND OTHER ACTS OF GOD) AND PERISHES WITHIN THE CONSTRUCTION PERIOD, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE AND DISPOSE OF THOSE TREES. MANATEE COUNTY NRD APPROVAL IS REQUIRED PRIOR TO REMOVAL OF ANY TREES DESIGNATED TO REMAIN. NO ADDITIONAL COMPENSATION SHALL BE MADE BY THE OWNER FOR THE LABOR, MATERIAL, OR MACHINERY REQUIRED TO REMOVE SAID TREE(S).
6. WHERE EXCAVATIONS ARE IN CLOSE PROXIMITY OF TREES, THE CONTRACTOR SHALL USE EXTREME CARE IN NOT DAMAGING THE ROOT SYSTEM. NO EQUIPMENT, SUPPLIES, OR VEHICLES SHALL BE STORED OR PARKED WITHIN THE DRIP LINE OF TREES TO REMAIN AND BE PRESERVED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM ALL OF HIS EMPLOYEES AND SUBCONTRACTORS OF THIS REQUIREMENT AND TO ENFORCE SAME.
7. LAY SOD AROUND ALL INLETS, MITERED ENDWALLS, HEADWALLS, SWALES, LAKE SLOPES, ADJACENT TO EDGE OF PAVEMENT AND ADJACENT TO BACK OF CURB AS SHOWN IN DETAILS OR AS DIRECTED BY THE ENGINEER.
8. NOTIFY "SUNSHINE STATE ONE CALL (1-800-432-4770), MANATEE COUNTY PUBLIC WORKS DEPARTMENT, FLORIDA POWER & LIGHT, PEACE RIVER ELECTRIC, VERIZON AND ANY OTHER UTILITIES (GAS COMPANIES, CABLE TV, ETC.) PRIOR TO CONSTRUCTION OPERATION AND PRIOR TO ANY CONNECTION TO EXISTING UTILITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT EXISTING UTILITIES FROM DAMAGE.
9. ALL UTILITY LINES, STORM DRAIN LINES AND ACCESSORIES SUCH AS, BUT NOT LIMITED TO, MANHOLES, CLEANOUTS, SEWER AND WATER SERVICES, VALVES, FIRE HYDRANTS AND INLETS SHALL BE CONSTRUCTED TO ALIGNMENT AND LOCATIONS SHOWN ON PLANS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
10. CLEARING, GRUBBING, STRIPPING, AND COMPACTION SHALL BE INSPECTED BY THE ENGINEER OR HIS DULY APPOINTED REPRESENTATIVE PRIOR TO FILLING.
11. PRIOR TO THE START OF CONSTRUCTION ACTIVITIES, PRESERVE AREAS WITHIN AND ADJOINING THE AREA OF CONSTRUCTION ACTIVITY SHALL BE PROTECTED BY ERECTION OF TREE PROTECTION BARRICADES AND/OR SILT BARRIERS. TREE PROTECTION BARRICADES SHALL MEET THE STANDARDS OF MANATEE COUNTY LAND DEVELOPMENT CODE. SILT BARRIERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE BEST MANAGEMENT PRACTICES DETAIL DRAWING. THE ENGINEER SHALL DETERMINE THE EXTENT AND TYPE OF PROTECTIVE MEASURES TO BE CONSTRUCTED FOR THE PROTECTION OF PRESERVE AREAS SUBJECT TO THE APPROVAL OF SWFWMD & MANATEE COUNTY NRD. THE CONTRACTOR SHALL NOTIFY THE ENGINEER & MANATEE COUNTY NRD WHEN PRESERVE AREA BARRICADES AND BARRIERS ARE IN PLACE. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ANY REQUIRED TREE REMOVAL PERMIT FROM MANATEE COUNTY.
12. ALL LIMITS OF CONSTRUCTION FOR THE OUTFALL PIPE/STRUCTURE/SPREADER SWALE SHALL BE STAKED PRIOR TO ANY CONSTRUCTION WITHIN THE LAKES OR WETLAND/BUFFERS. APPROVAL FROM THE ENGINEER, AND THE OWNER IS REQUIRED BEFORE EQUIPMENT CAN BE USED WITHIN THE LAKE OR WETLAND/BUFFER. THE ENGINEER SHALL BE ON SITE DURING CONSTRUCTION WITHIN THE LAKE OR WETLAND/BUFFER.
13. LOCATION OF ALL STORM STRUCTURES (WEIR, MITERED END, CONTROL STRUCTURE, GRATE INLET, ETC.) ADJACENT TO A WETLAND SHALL BE APPROVED BY THE ENGINEER OR HIS REPRESENTATIVE AFTER SURVEY STAKE OUT AND PRIOR TO INSTALLATION.
14. FILLING, EXCAVATING OR REMOVAL OF NATIVE VEGETATION SHALL BE PROHIBITED IN THE PRESERVATION AREA, UNLESS APPROVED BY MANATEE COUNTY NRD.
15. THE CONTRACTOR SHALL ADHERE TO AND HAVE A COPY OF THE SWFWMD PERMIT FOR THE PROJECT ON SITE.
16. ALL CONCRETE PIPE IN R/W SHALL HAVE A FILTER FABRIC JACKET MINIMUM 12" EACH SIDE OF JOINT WITH MINIMUM 24" OVERLAP AT SEAM PER FOOT INDEX #280 & #199 & ALL APPLICABLE COUNTY REQUIREMENTS. IN ADDITION, ALL ELLIPTICAL PIPE SHALL HAVE ALL JOINTS WRAPPED.
17. CONTRACTOR SHALL SPRINKLE OR OTHERWISE APPLY WATER TO AFFECTED CONSTRUCTION AREAS TO CONTROL BOTH SIGNIFICANT WIND EROSION AND FUGITIVE DUST.
18. CONTRACTOR SHALL CONSTRUCT ALL VALVES SO THAT NO VALVE BOXES ARE LOCATED IN HANDICAP RAMPS AND/OR CURBING. IF VALVES ARE FOUND TO BE IN THESE LOCATIONS, THE COST OF VALVE RELOCATION IS THE CONTRACTOR'S RESPONSIBILITY.
19. THRUST BLOCKS AND JOINT RESTRAINTS DETAILS ON THE WATER DISTRIBUTION DETAILS SHEET SHALL ALSO APPLY TO FORCE MAIN, IRRIGATION & WATER MAINS.
20. TRENCH DETAILS ON THE WASTEWATER COLLECTION CONSTRUCTION DETAILS SHEET SHALL ALSO APPLY TO FORCE MAIN, IRRIGATION & WATER MAINS.
21. THE CONTRACTOR SHALL PROVIDE RECORD DRAWINGS THAT MEET OR EXCEED THE REQUIREMENTS OF THE SWFWMD ERP INFORMATION MANUAL, LATEST EDITION AND THE MANATEE COUNTY PUBLIC WORKS UTILITY STANDARDS, LATEST EDITION.
22. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL DURING CONSTRUCTION IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES MILLENNIUM EDITION AND THE FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS, LATEST EDITION, TRAFFIC CONTROL THROUGH WORK ZONES, SERIES 600 INDICES.

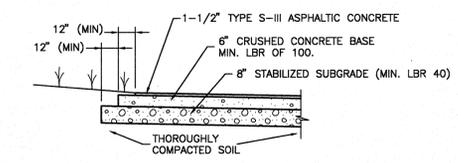


- NOTE:**
1. SIGN FACE TO BE YELLOW WITH BLACK TEXT.
 2. POST MAY BE PRESSURE TREATED 4"x4" OR FLANGED CHANNEL STEEL (1 1/2")
 3. BURY POST A MINIMUM OF 3.0'.

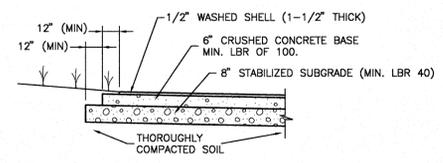
TYPICAL WETLAND BUFFER SIGN DETAIL
N.T.S.



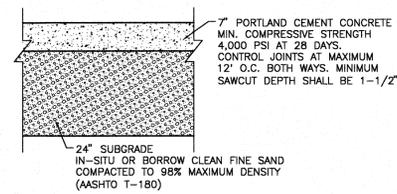
TYPICAL ROOF DRAIN SERVICE/ CONNECTION DETAIL
N.T.S.



FLEXIBLE (ASPHALT) PAVEMENT SECTION
N.T.S.

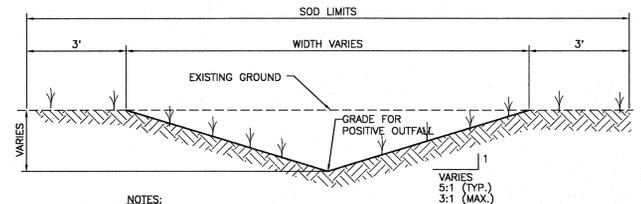


WASHED SHELL PAVEMENT SECTION
N.T.S.



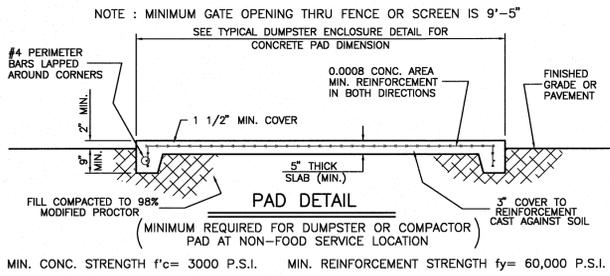
- NOTES:**
1. SUBGRADE SOILS SHOULD BE DENSIFIED TO AT LEAST 98% OF MODIFIED PROCTOR TEST MAXIMUM DRY DENSITY (ASTM D1557, AASHTO T-180) TO A DEPTH OF AT LEAST 2 FEET PRIOR TO PLACEMENT OF CONCRETE.
 2. THE SURFACE OF THE SUBGRADE SOILS SHOULD BE SMOOTH, AND ANY DISTURBANCES OR WHEEL RUTTING CORRECTED PRIOR TO PLACEMENT OF CONCRETE.
 3. THE SUBGRADE SOILS SHOULD BE MOISTENED PRIOR TO PLACEMENT OF CONCRETE.
 4. CONCRETE PAVEMENT THICKNESS SHOULD BE UNIFORM THROUGHOUT.
 5. SEE SITE PLAN FOR PORTLAND CEMENT CONCRETE PAVEMENT LOCATIONS.

PORTLAND CEMENT CONCRETE RIGID PAVEMENT SECTION
N.T.S.

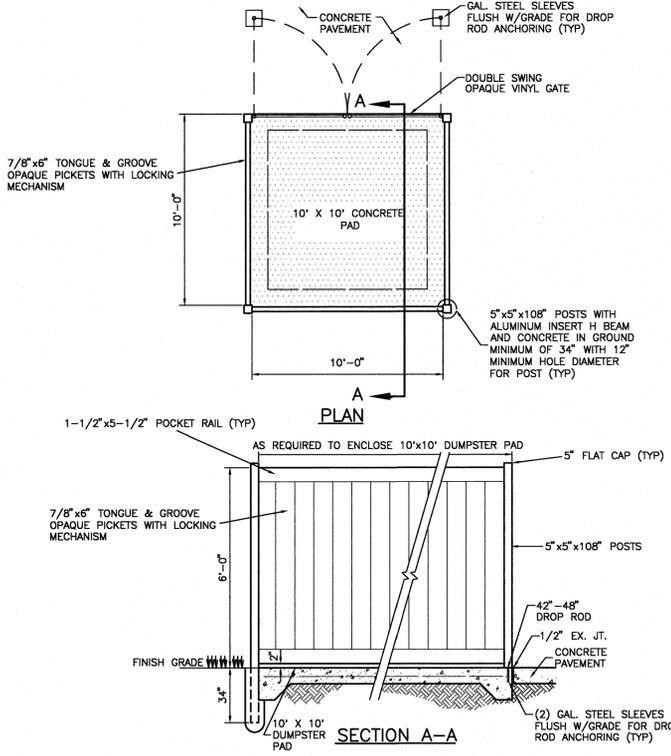


- NOTES:**
1. SWALES SHALL BE SODDED AS SOON AS PRACTICAL TO MINIMIZE EROSION.
 2. THE OUTFALL SWALE SHALL BE CONSTRUCTED AT THE DOWNSTREAM SIDE OF EACH CONTROL STRUCTURE/WEIR AND SHALL BE INCLUDED IN THE PRICE OF THE CONTROL STRUCTURE/WEIR.
 3. THE SWALE SHALL EXTENDED INTO BUFFER/WETLAND AREA TO A POINT WHERE EXISTING GRADE IS 0.10' BELOW THE LOWEST NOTCH ELEVATION.

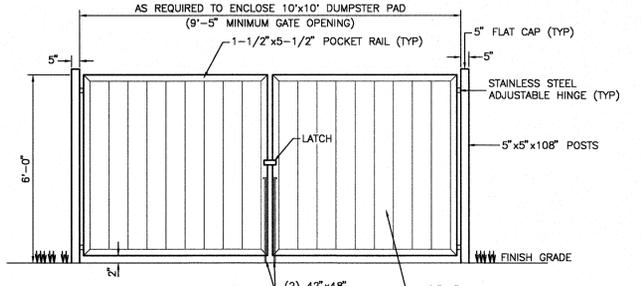
TYPICAL SWALE / TYPICAL OUTFALL SWALE
N.T.S.



DUMPSTER PAD TYPICAL DETAILS
N.T.S.



TYPICAL DUMPSTER ENCLOSURE DETAIL
N.T.S.



GATE ELEVATION

- NOTES:**
1. ENCLOSURE & GATES TO BE PEBBLESTONE PICKET AS MANUFACTURED BY POLY VINYL CREATIONS (OR APPROVED EQUAL). FINAL COLOR TO BE APPROVED BY COUNTY.
 2. CONTRACTOR TO SUBMIT TO THE COUNTY/ENGINEER SHOP DRAWINGS AND SIGNED & SEALED WINDLOAD CALCULATIONS MEETING BUILDING CODE REQUIREMENTS.
 3. CONTRACTOR SHALL INCLUDE ANY BUILDING PERMITTING REQUIRED FOR DUMPSTER PAD, ENCLOSURE, & GATES IN THEIR BID PRICE.
 4. ALL GATE POSTS TO BE 5"x5"x108" WITH ALUMINUM INSERT H BEAM AND CONCRETE IN GROUND MINIMUM OF 34" WITH 12" DIAMETER HOLE. CONCRETE TO BE FILLED UP TO FINISHED GRADE.
 5. FOR HARDWARE: PADLOCKABLE DROP ROD, LOCK LATCH DELUXE WITH 6 PIN KEY SYSTEM AND STAINLESS STEEL ADJUSTABLE HINGES.

LAKE LITTORAL ZONES
S-0047(04/03/08) (MANATEE)

Littoral zones will begin at the approximate normal water level (NWL) on the lake bank and proceed offshore to a maximum depth of 3 feet below NWL. The littoral shelf width and resulting slopes will vary. Plan views and a typical cross-section for lake littoral zones are presented within these plans. Littoral zones will make up 35 percent of the minimum lake area required for treatment measured at NWL.

Littoral zones will be excavated and contoured to design widths and slopes during lake system construction. Vegetation will be planted on the littoral shelves with at least 3 different native species obtained from nursery stock or harvested from areas that are free from nuisance species. A permit may be required to harvest plants. Individual (or clumps) of herbaceous vegetation will be installed on 3-foot centers and floating leaved plants will be installed on 5-foot centers. Typical planting to be sand cord grass (*Spartina bakeri*) at the shallow edge of the littoral zone, soft rush (*Juncus effusus*) to a depth of 6", arrowhead (*Sagittaria lanifolia*) from a depth of 6" to 2'-1/2", and pickerweed (*Pontedericia zosterifolia*) one/ or water lily (*Nymphaea odorata*) from a depth of 2'-1/2" to 3". Plant material is an example only and may be substituted subject to SWFWMD and County approval. No single species shall constitute more than 50 percent of the number of plants to be installed.

All plants will be installed in the littoral zones within 1 month of final grading of the lake's banks if that occurs in April through September and if normal water level has been reached. Plants will be installed in littoral zones in April in lakes excavated and final graded in October through March provided that normal water level has been attained by that time. The County shall be notified within 7 days of planting.

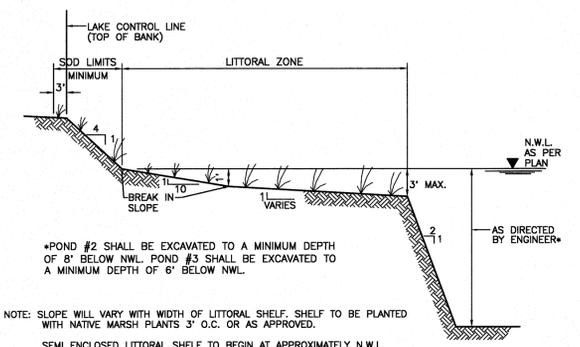
All littoral zone vegetation shall be maintained in perpetuity.

Cattails and exotic nuisance plant species shall be removed manually during the 3-year establishment period if they constitute more than 15% of the vegetation within the Littoral Zone.

Supplemental planting will occur at the end of the first 3 years following planting if the survival of planted species falls below 85%.

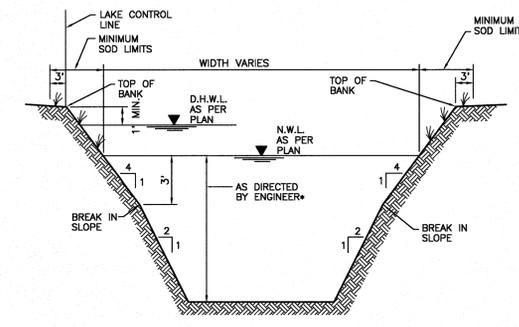
LITTORAL ZONE AREAS

LAKE #3	LITTORAL ZONE AREA (ACRES) 0.06
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- NOTE:** SLOPE WILL VARY WITH WIDTH OF LITTORAL SHELF. SHELF TO BE PLANTED WITH NATIVE MARSH PLANTS 3' O.C. OR AS APPROVED.
- SEMI ENCLOSED LITTORAL SHELF TO BEGIN AT APPROXIMATELY N.W.L. AND SLOPE AT A 10:1 SLOPE TO A DEPTH OF 1' BELOW N.W.L., FROM THAT POINT THE SLOPE VARIES OUT TO A DEPTH OF 3' BELOW N.W.L.

TYPICAL LAKE WITH LITTORAL SHELF SECTION
N.T.S.



- NOTE:** POND #2 SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 8' BELOW NWL. POND #3 SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 6' BELOW NWL.

TYPICAL LAKE SECTION
N.T.S.

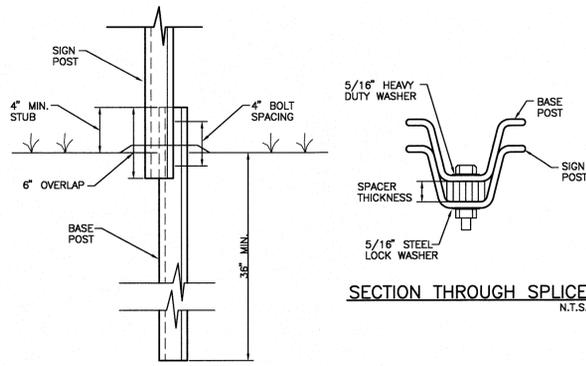
REV	DATE	BY	DESCRIPTION	ACTIVITY	INITIALS/EMP. NO.	DATE
G	1/14/15	ATO/89520	REMOVE FENCE POST DETAIL	DESIGNED BY:	ATO/89520	11/17/11
B	10/18/12	DJB/89366	ADD FENCE POST DETAIL	CHECKED BY:		
				CONTRACT ADMIN. BY:		
				WM APPROVED BY:		

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Phone 941-907-6900 • Fax 941-907-6910
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CLIENT:	MANATEE BOARD OF COUNTY COMMISSIONERS
PROJECT:	FT. HAMER PARK, PHASE II

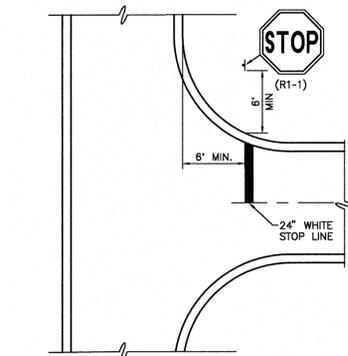
DATE:	NOVEMBER 2011	TITLE:	TYPICAL SECTIONS AND CONSTRUCTION DETAILS
AS SHOWN		INDEX NUMBER:	D-215610582-007
AS SHOWN		CROSS REFERENCE FILE NO.:	215610582_220
17 34S 19E		PROJECT NUMBER:	215610582_220
		SHEET NUMBER:	7 of 13

DANIEL J. BOND, P.E.
FLORIDA LICENSE NO. 57989
No 57989
3-23-16

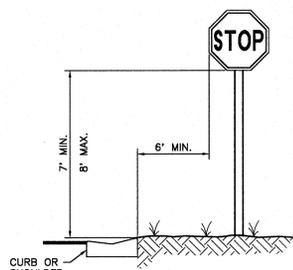


NOTE:
ALL MATERIALS AS PER F.D.O.T.
SPECIFICATIONS, INDEX NO. 11865,
AND ALL APPLICABLE COUNTY REQUIREMENTS.

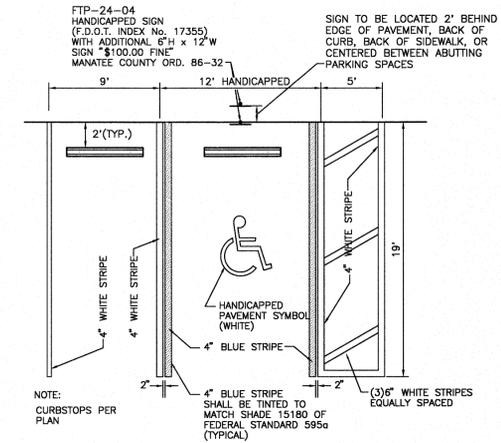
SIGN POST BREAKAWAY DETAIL
S-P027 N.T.S.



STOP SIGN, STOP LINE DETAIL
N.T.S.



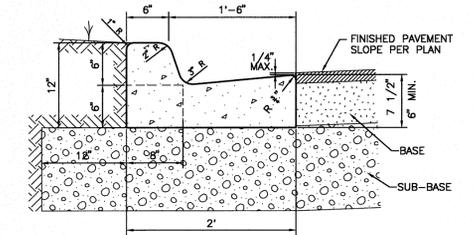
TYPICAL STOP SIGN DETAIL
N.T.S.



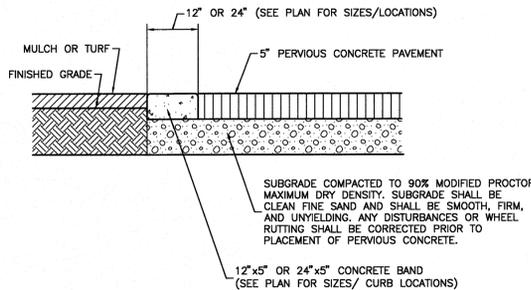
TYPICAL PARKING SPACE
(MANATEE) N.T.S.

CURB NOTES:

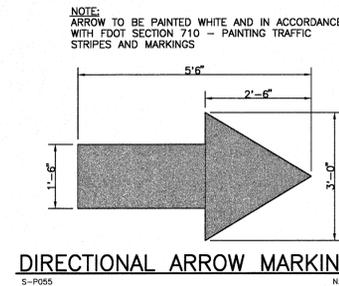
1. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3,000 P.S.I. IN 28 DAYS UNLESS OTHERWISE NOTED.
2. CURB AND GUTTER SHALL MEET THE SPECIFICATIONS ESTABLISHED BY FLORIDA D.O.T. STANDARD SPECIFICATIONS PER F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS INDEX NO. 300, LATEST REVISION.
3. WHEN USED ON THE HIGH SIDE OF THE ROADWAYS THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT.
4. AN EXPANSION JOINT WILL BE PLACED AT THE END OF ALL RETURNS AT INTERVALS NOT TO EXCEED 50'. CONTRACTION JOINTS AT A MAXIMUM SPACING OF 10' SHALL BE SAW CUT AT DEPTH PER FDOT INDEX NO. 300
5. EXPANSION JOINTS SHALL BE CONSTRUCTED WITH 1/2" BITUMINOUS IMPREGNATED EXPANSION JOINT MATERIAL.



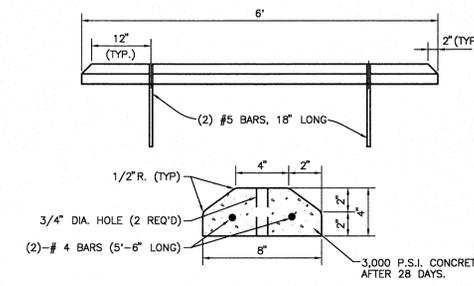
FDOT TYPE "F" CURB
(MANATEE)
S-P043(9/25/07) N.T.S.



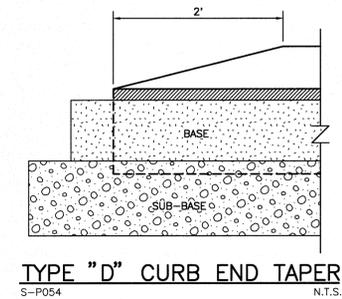
CONCRETE BAND CURB/PERVIOUS CONCRETE DETAIL
N.T.S.



DIRECTIONAL ARROW MARKING
S-P055 N.T.S.



PRECAST CONCRETE WHEEL STOP
S-P029 N.T.S.

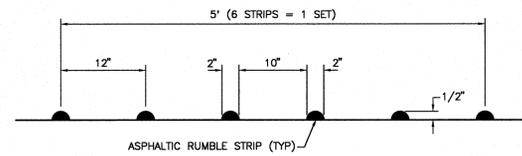


TYPE "D" CURB END TAPER
S-P054 N.T.S.

- CURB NOTES:**
1. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3,000 P.S.I. IN 28 DAYS UNLESS OTHERWISE NOTED.
 2. AN EXPANSION JOINT WILL BE PLACED AT THE END OF ALL RETURNS AT INTERVALS NOT TO EXCEED 50'. CONTRACTION JOINTS AT A MAXIMUM SPACING OF 10' SHALL BE SAW CUT AT DEPTH PER FDOT INDEX NO. 300
 3. EXPANSION JOINTS SHALL BE CONSTRUCTED WITH 1/2" BITUMINOUS IMPREGNATED EXPANSION JOINT MATERIAL.

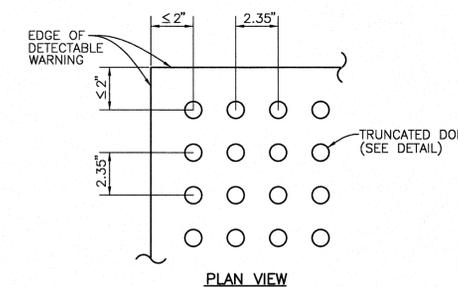
- PERVIOUS CONCRETE NOTES:**
1. THE SUBGRADE SOILS SHALL BE MOISTENED PRIOR TO PLACEMENT OF PERVIOUS CONCRETE.
 2. PERVIOUS CONCRETE THICKNESS SHALL BE UNIFORM THROUGHOUT.
 3. CONTROL JOINTS SHALL BE PROVIDED IN A PATTERN AS DIRECTED BY THE ENGINEER BUT SHALL NOT EXCEED 8' O.C.E.W.
 4. THE PERVIOUS CONCRETE SHALL BE COLORED AT THE PLANT WITH A COLOR TO BE DETERMINED BY THE COUNTY ENGINEER. THE PLANT SHALL SUPPLY A COLOR SAMPLE OF THE CONCRETE MIX FOR APPROVAL BY THE COUNTY PRIOR TO INSTALLATION.
 5. THE CONTRACTOR SHALL SUBMIT A PLANT MIX DESIGN FOR THE PERVIOUS CONCRETE DEMONSTRATING THE UNIT WEIGHT (PCF) AND AIR VOID CONTENT (AVC) OF THE DESIGN MIX.
 6. THE CONTRACTOR SHALL PROVIDE LABORATORY TESTING RESULTS DEMONSTRATING THAT THE FRESH PERVIOUS CONCRETE UNIT WEIGHT IS WITHIN 5 PCF (+/-) OF THE MIX DESIGN UNIT WEIGHT AND THE AVC IS WITHIN 3% (+/-) OF 18% AVC.

7. THE CONTRACTOR SHALL EMPLOY NO LESS THAN ONE NATIONAL READY MIXED CONCRETE ASSOCIATION (NRMCA) CERTIFIED PERVIOUS CONCRETE CRAFTSMAN WHO MUST BE ON SITE, OVERSEEING EACH PLACEMENT CREW DURING ALL CONCRETE PLACEMENT, OR THE CONTRACTOR SHALL EMPLOY NO LESS THAN THREE NRMCA CERTIFIED PERVIOUS CONCRETE INSTALLERS, WHO SHALL BE ON SITE WORKING AS MEMBERS OF EACH PLACEMENT CREW DURING ALL CONCRETE PLACEMENT, OR THE CONTRACTOR SHALL EMPLOY NO LESS THAN FIVE NRMCA CERTIFIED PERVIOUS CONCRETE TECHNICIANS, WHO SHALL BE ON SITE WORKING AS MEMBERS OF EACH PLACEMENT CREW DURING ALL CONCRETE PLACEMENT UNLESS OTHERWISE SPECIFIED. CERTIFIED DOCUMENTATION SHALL BE PROVIDED TO THE COUNTY AND ENGINEER PRIOR TO PERVIOUS CONCRETE INSTALLATION.



- NOTES:**
1. RAISED RUMBLE STRIPS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH SECTION 546 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
 2. RUMBLE STRIP SET SHALL EXTEND FROM CENTERLINE STRIPING TO 1.5 FT FROM EDGE OF TRAVEL WAY.
 3. RUMBLE STRIP SET LOCATIONS PER PLAN.

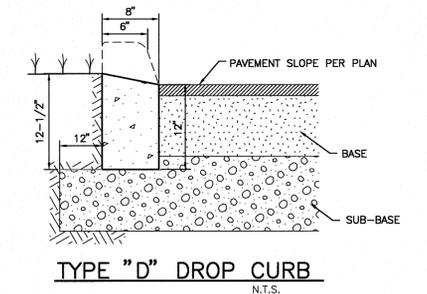
ASPHALT SET RUMBLE STRIPS
N.T.S.



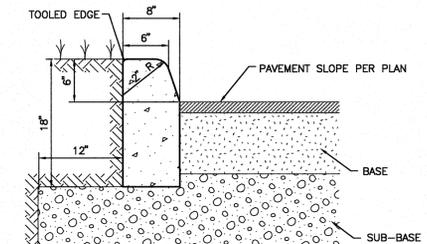
TRUNCATED DOME
CURB RAMP DETECTABLE WARNING DETAIL
N.T.S.

- NOTES:**
- DETECTABLE WARNINGS ON WALKING SURFACES**
- THE DETECTABLE WARNING SHALL EXTEND THE FULL WIDTH AND DEPTH OF THE CURB RAMP. DETECTABLE WARNINGS SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 INCH, A HEIGHT OF NOMINAL 0.2 INCH AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 INCH AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT.
- THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE. DETECTABLE WARNINGS USED ON INTERIOR SURFACES SHALL DIFFER FROM ADJOINING WALKING SURFACES IN RESILIENCY OR SOUND-ON-CANE CONTACT.
- THE MATERIAL USED TO PROVIDE CONTRAST SHOULD CONTRAST BY AT LEAST 70%. CONTRAST IS DETERMINED BY:
CONTRAST = [(B1-B2)/B1] x 100
- WHERE B1 = LIGHT REFLECTANCE VALUE (LRV) OF THE LIGHTER AREA AND B2 = LIGHT REFLECTANCE VALUE (LRV) OF THE DARKER AREA.
- NOTE THAT IN ANY APPLICATION BOTH WHITE AND BLACK ARE NEVER ABSOLUTE; THUS, B1 NEVER EQUALS 100 AND B2 IS ALWAYS GREATER THAN 0.

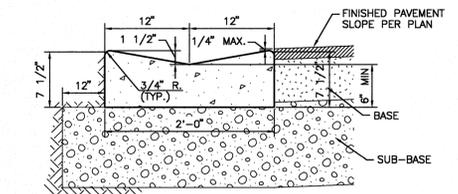
CURB RAMP DETECTABLE WARNINGS
302.3 (6/12/07) N.T.S.



TYPE "D" DROP CURB
N.T.S.



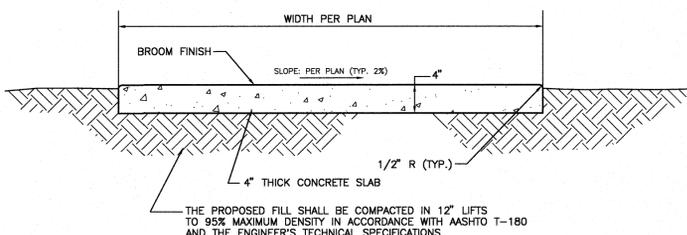
TYPE "D" CURB
(MANATEE)
S-P040(09/04/07) N.T.S.



TYPE "VW" CURB
N.T.S.

CONCRETE BAND CURB/INTERFACE DETAIL
N.T.S.

- CURB NOTES:**
1. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 4,000 P.S.I. IN 28 DAYS WITH MAXIMUM SLUMP OF 4" UNLESS OTHERWISE NOTED.
 2. AN EXPANSION JOINT WILL BE PLACED AT THE END OF ALL RETURNS AT INTERVALS NOT TO EXCEED 50' WITH THE CONTRACTION JOINTS AT 10' INTERVALS BETWEEN.
 3. EXPANSION JOINTS SHALL BE CONSTRUCTED WITH 1/2" BITUMINOUS IMPREGNATED EXPANSION JOINT MATERIAL.



- SIDEWALK NOTES:**
1. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 P.S.I. IN 28 DAYS UNLESS OTHERWISE NOTED.
 2. CONTRACTION JOINTS SHALL BE SAW CUT TO AN 1" DEPTH AND APPROXIMATELY 3/16" WIDE AT INTERVALS EQUAL TO THE WIDTH OF THE SIDEWALK.
 3. AN EXPANSION JOINT WILL BE PLACED AT THE END OF ALL RETURNS, AT FIXED OBJECTS (DRIVEWAYS, CURBS ETC.) AND INTERVALS NOT TO EXCEED 50'. EXPANSION JOINTS SHALL BE CONSTRUCTED WITH 1/2" PREFORMED JOINT FILLER.
 4. ALL SIDEWALKS AND SIDEWALK CROSSINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA).

TYPICAL SIDEWALK DETAIL
(MANATEE) N.T.S.

NO.	REVISION	DATE	DESIGNED BY	CHECKED BY	DATE
B	REVISE CONCRETE BAND CURB/PERVIOUS CONCRETE DETAIL	01/08/13	ATO/B9520		

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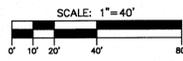
CLIENT:	MANATEE BOARD OF COUNTY COMMISSIONERS
PROJECT:	FT. HAMER PARK, PHASE II

DATE:	NOVEMBER 2011	TITLE:	PAVING DETAILS
HORIZONTAL SCALE:	AS SHOWN	PROJECT NUMBER:	D-215610582-008
VERTICAL SCALE:	AS SHOWN	SHEET NUMBER:	8 OF 13

DANIEL J. BOND, P.E.
FLORIDA LICENSE NO. 57989
3-23-15

LEGEND

- POND/ DRY RETENTION AREA
- EXISTING POND
- WETLAND
- LITTORAL ZONE
- CONCRETE PAD/SIDEWALK
- EXISTING CONCRETE SIDEWALK
- EXISTING SHELL DRIVE
- DECORATIVE PAVERS
- EXISTING BUILDING
- 1/2" WASHED SHELL
- SILT FENCE
- HAY BALES
- FLOATING TURBIDITY BARRIER

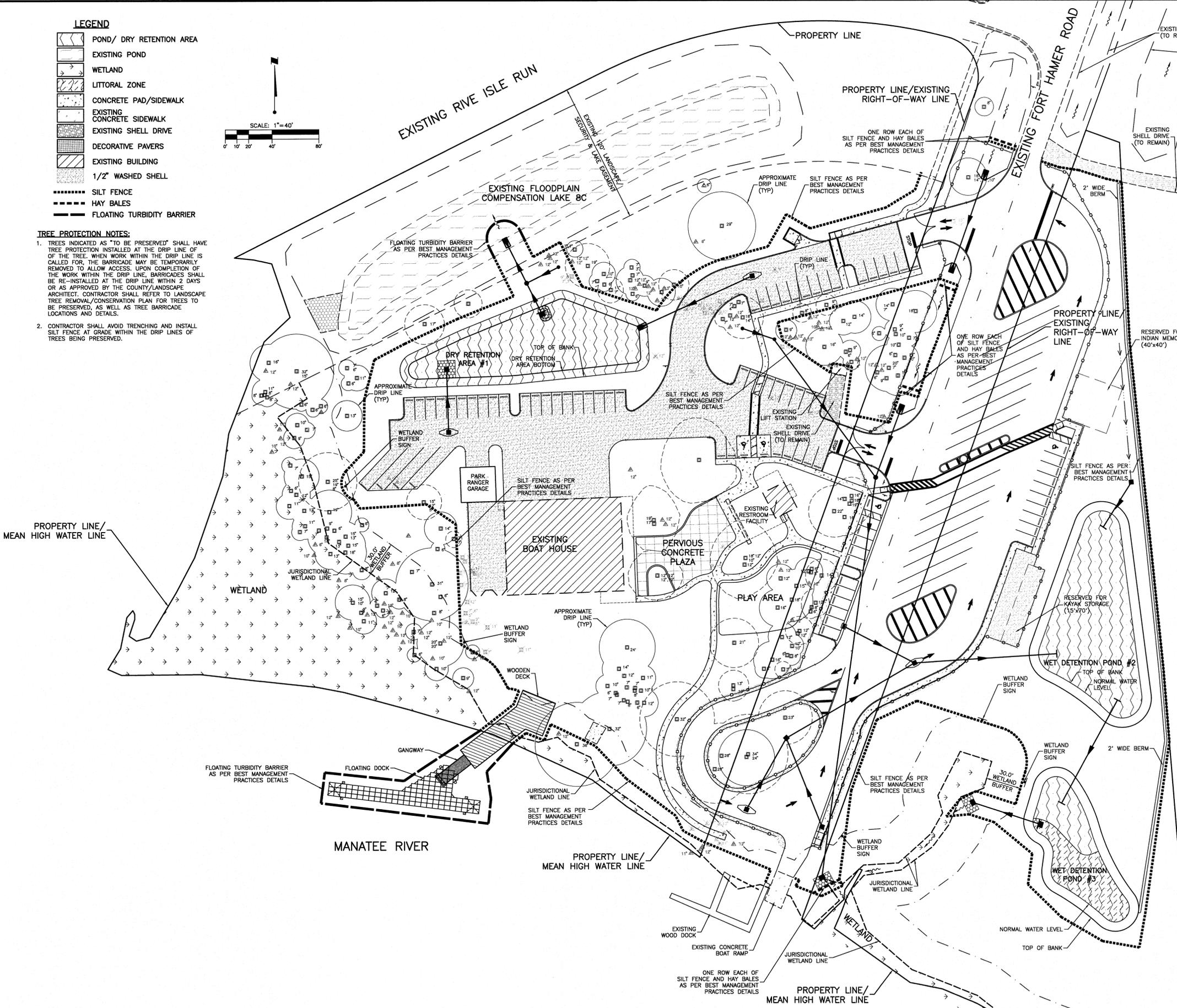


TREE PROTECTION NOTES:

1. TREES INDICATED AS "TO BE PRESERVED" SHALL HAVE TREE PROTECTION INSTALLED AT THE DRIP LINE OF THE TREE. WHEN WORK WITHIN THE DRIP LINE IS CALLED FOR, THE BARRICADE MAY BE TEMPORARILY REMOVED TO ALLOW ACCESS. UPON COMPLETION OF THE WORK WITHIN THE DRIP LINE, BARRICADES SHALL BE RE-INSTALLED AT THE DRIP LINE WITHIN 2 DAYS OR AS APPROVED BY THE COUNTY/LANDSCAPE ARCHITECT. CONTRACTOR SHALL REFER TO LANDSCAPE TREE REMOVAL/CONSERVATION PLAN FOR TREES TO BE PRESERVED, AS WELL AS TREE BARRICADE LOCATIONS AND DETAILS.
2. CONTRACTOR SHALL AVOID TRENCHING AND INSTALL SILT FENCE AT GRADE WITHIN THE DRIP LINES OF TREES BEING PRESERVED.

NOTES

1. A COPY OF THIS BEST MANAGEMENT PRACTICES PLAN AND THE STORMWATER POLLUTION PREVENTION PLAN, SHALL BE KEPT AT THE PROJECT SITE AT ALL TIMES.
2. THE CONTRACTOR SHALL ABIDE BY ALL APPLICABLE REQUIREMENTS AND CONDITIONS OF THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT (SWFMD) PERMIT(S) AND HAVE A COPY OF THE PERMIT(S) ON SITE IF IT IS NECESSARY FOR GROUNDWATER DEWATERING TO DISCHARGE OFFSITE. THEN THE CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITTING FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP). THE CONTRACTOR SHALL BEAR ALL RESPONSIBILITY AND COSTS FOR OBTAINING AND/OR MODIFYING ALL APPLICABLE PERMITTING FOR THE DISCHARGE OF GROUNDWATER DEWATERING AND FOR COMPLYING WITH ALL SWFMD AND FDEP PERMITTING CONDITIONS.
3. THE CONTRACTOR SHALL IMPLEMENT OTHER BEST MANAGEMENT PRACTICES AS DIRECTED BY THE ENGINEER OF RECORD OR OTHER REGULATORY AGENCIES.
4. THE CONTRACTOR SHALL STAGE CONSTRUCTION IN PHASES WHENEVER POSSIBLE TO MINIMIZE SOIL LOSS AND CONTROL EROSION.
5. THE CONTRACTOR SHALL PROVIDE A STABILIZED CONSTRUCTION ENTRANCE TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEEPED AS REQUIRED TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE SHALL BE COVERED WITH A TARP/AULIN.
6. THE CONTRACTOR SHALL DIRECT ONSITE RUNOFF TO THE STORMWATER MANAGEMENT SYSTEM DURING CONSTRUCTION.
7. CONTRACTOR SHALL SPRINKLE OR OTHERWISE APPLY WATER TO AFFECTED CONSTRUCTION AREAS TO CONTROL BOTH SIGNIFICANT WIND EROSION AND FUGITIVE DUST.
8. ALL INLET GRATES SHALL BE WRAPPED IN FILTER FABRIC AND ALL INLETS SHALL BE PROTECTED WITH SILT SCREENS OR HAY BALES IN ACCORDANCE WITH THE BMP PLAN. SILT BARRIERS SHALL REMAIN IN PLACE UNTIL SODDING OR CONSTRUCTION IS COMPLETE. INLET GRATES SHOULD REMAIN WRAPPED UNTIL PROJECT IS COMPLETE.
9. FOR DRAINAGE BASINS WITH 10 OR MORE DISTURBED ACRES AT ONE TIME, A TEMPORARY (OR PERMANENT) SEDIMENT BASIN PROVIDING 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED, OR EQUIVALENT CONTROL MEASURES, SHALL BE PROVIDED WHERE ATTAINABLE UNTIL FINAL STABILIZATION OF THE SITE. THE 3,600 CUBIC FEET OF STORAGE AREA PER ACRE DRAINED DOES NOT APPLY TO FLOWS FROM OFFSITE AREAS AND FLOWS FROM ONSITE AREAS THAT ARE EITHER UNDISTURBED OR HAVE UNDERGONE FINAL STABILIZATION WHERE SUCH FLOWS ARE DIVERTED AROUND BOTH THE DISTURBED AREA AND THE SEDIMENT BASIN. FOR DRAINAGE BASINS WITH 10 OR MORE DISTURBED ACRES AT ONE TIME AND WHERE A TEMPORARY SEDIMENT BASIN PROVIDING 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED, OR EQUIVALENT CONTROLS IS NOT ATTAINABLE, A COMBINATION OF SMALLER SEDIMENT BASINS AND/OR SEDIMENT TRAPS AND OTHER BMPs SHOULD BE USED. AT A MINIMUM, SILT FENCES, OR EQUIVALENT SEDIMENT CONTROLS ARE REQUIRED FOR ALL SIDESLOPE AND DOWNSLOPE BOUNDARIES OF THE CONSTRUCTION AREA.
10. AREAS THAT ARE DESIGNATED FOR PERMANENT STORMWATER INFILTRATION TREATMENT SYSTEMS (E.G., STORMWATER RETENTION PONDS) SHOULD NOT BE USED FOR TEMPORARY SEDIMENT BASINS UNLESS APPROPRIATE MEASURES ARE TAKEN TO ASSURE REMOVAL OF ACCUMULATED FINE SEDIMENTS, WHICH MAY CAUSE PREMATURE CLOGGING AND LOSS OF INFILTRATION CAPACITY, AND TO AVOID EXCESSIVE COMPACTION OF SOILS BY CONSTRUCTION MACHINERY OR EQUIPMENT.
11. DEWATERING WILL OCCUR, AS REQUIRED, FOR ALL EXCAVATION ACTIVITY INCLUDING, BUT NOT LIMITED TO, STORM SEWERS, SANITARY SEWERS, WATER LINES AND OTHER UTILITIES.
12. ALL CONSTRUCTION DEWATERING SHALL BE CONTAINED ONSITE, AT SPECIFIED LOCATIONS, AND ALLOWED TO INFILTRATE THE SOIL, UNLESS FDEP PERMITTING IS OBTAINED FOR OFFSITE DISCHARGE. ALL DEWATERING GROUNDWATER DISCHARGE SHALL BE ROUTED THROUGH A TEMPORARY SEDIMENT SLUMP PRIOR TO DISCHARGE TO WETLANDS, OTHER SURFACE WATER, OR OFFSITE. THE GENERAL PROCESS OF THE DEWATERING SYSTEM IF DEPICTED HEREIN SHALL BE ADHERED TO DURING CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL APPLICABLE APPROVALS FOR ANY MODIFICATIONS HE PROPOSES.
13. THE DEWATERING SYSTEM SHALL USE A PUMP AND PIPING THAT IS LESS THAN 6 INCHES IN DIAMETER AND OPERATE LESS THAN A TOTAL OF SIX MONTHS. ANY DEVIATION FROM THIS REQUIREMENT SHALL REQUIRE A WATER USE PERMIT. THE COST OF A WATER USE PERMIT AND ASSOCIATED MATERIALS SHALL BE BORNE BY THE CONTRACTOR.
14. LAY SOD AROUND ALL INLETS, MITERED ENDWALLS, HEADWALLS, SWALES, POND SLOPES, AND A THREE FOOT (3') WIDE STRIP ADJACENT TO EDGE OF PAVEMENT OR AS DIRECTED BY THE ENGINEER AS SOON AS PRACTICAL TO PREVENT EROSION. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES PERMANENTLY CEASE SHALL BE STABILIZED WITH SOD OR WITH PERMANENT SEED AND MULCH IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. PERMANENT STABILIZATION SHALL OCCUR AS SOON AS PRACTICAL BUT IN NO CASE MORE THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY.
15. SODDING INCLUDES MAINTAINING SLOPES AND SOD UNTIL COMPLETION AND ACCEPTANCE OF TOTAL PROJECT OR GROWTH IS ESTABLISHED, WHICHEVER COMES LAST. UNTIL THEN, ALL EROSION, SILTATION, AND MAINTENANCE OF GRADES AND GRASS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
16. TOP SOIL STOCK PILES AND DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY WILL TEMPORARILY CEASE FOR AT LEAST 21 DAYS SHALL BE STABILIZED WITH TEMPORARY SEED AND MULCH AS SOON AS PRACTICABLE BUT IN NO CASE MORE THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY IN THAT AREA. THE TEMPORARY SEED AND MULCH SHALL BE INSTALLED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
17. ALL SILTATION AND EROSION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED AT A MINIMUM OF ONCE PER WEEK OR AFTER ANY 1/2" OR GREATER RAINFALL EVENT. THE CONTRACTOR SHALL MAINTAIN RECORDS OF ALL MAINTENANCE AND INSPECTIONS, ON SITE, UNTIL CONSTRUCTION IS COMPLETE. COPIES SHALL BE FURNISHED TO THE ENGINEER OR OWNER, UPON REQUEST.
18. THE SITE SUPERINTENDENT WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, FILLING OUT THE INSPECTION AND MAINTENANCE REPORT AND IF NECESSARY, REVISING THE STORMWATER POLLUTION PREVENTION PLAN CONSISTENT WITH MODIFICATIONS MADE DUE TO UNFORESEEN CAUSES, AS DICTATED BY FIELD CONDITIONS.
19. PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES SHALL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT FOR INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER.
20. A MAINTENANCE INSPECTION REPORT SHALL BE MADE AFTER EACH INSPECTION. A COPY OF THE REPORT FORM TO BE COMPLETED BY THE INSPECTOR IS INCLUDED IN THE STORMWATER POLLUTION PREVENTION PLAN.
21. SILT FENCE SHALL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO INSURE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO INSURE THAT THE FENCE POSTS ARE INSTALLED FIRMLY IN THE GROUND.
22. SILTATION ACCUMULATIONS GREATER THAN THE LESSER OF 12 INCHES OR ONE-HALF OF THE DEPTH OF THE SILTATION CONTROL BARRIER OR CONTROL DEVICES SHALL BE IMMEDIATELY REMOVED AND PLACED IN UPLAND AREAS. ALL SILTATION BARRIERS SHALL THEN BE RESTORED TO THEIR ORIGINAL CONDITIONS.
23. THE SEDIMENT BASIN SHALL 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, WHICHEVER COMES FIRST.
24. DIVERSION DIKE, IF REQUIRED, SHALL BE INSPECTED AND ALL BREACHES PROMPTLY REPAIRED.
25. TEMPORARY AND PERMANENT SEEDING AND PLANTING SHALL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
26. ALL MEASURES SHALL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT SHALL BE INITIATED WITHIN 24 HOURS OF REPORT.
27. THE LOCATION OF SILT FENCE AND OTHER BMP FACILITIES SHOWN ON THIS PLAN ARE APPROXIMATE ONLY. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THESE FACILITIES ARE PLACED IN A LOCATION AND MANNER THAT DOES NOT CONFLICT WITH THE LIMITS OF CONSTRUCTION OR AREAS TO BE PROTECTED AS SET FORTH IN THESE PLANS.



CONSTRUCTION SURFACE WATER MANAGEMENT PLAN (CSWMP) CERTIFICATION

OWNER/APPLICANT SIGNATURE _____ DATE _____

OWNER: CHARLIE BISHOP
 TITLE: DIRECTOR
 COMPANY: MANATEE COUNTY PROPERTY MANAGEMENT DEPARTMENT

For Reference Only

REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:
H	ADD EXISTING TREES/APPROX. DRIP LINES; ADD TREE PROTECTION NOTE 2	3/18/15	DJB/89366		
B	UPDATE BASE LINWORK PER COUNTY COMMENTS	10/18/12	DJB/89366		

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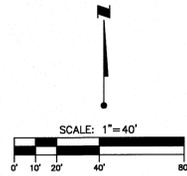
CLIENT: MANATEE BOARD OF COUNTY COMMISSIONERS

PROJECT: FT. HAMER PARK, PHASE II

DATE: NOVEMBER 2011	TITLE: BEST MANAGEMENT PRACTICES PLAN
HORIZONTAL SCALE: 1"=40'	STATE OF FLORIDA
VERTICAL SCALE: N/A	D-215610582-012
CROSS REFERENCE FILE NO.: 215610582-220	SHEET NUMBER: 12 OF 13

LEGEND

- POND/ DRY RETENTION AREA
- WETLAND
- LITTORAL ZONE
- CONCRETE PAD/SIDEWALK
- EXISTING CONCRETE SIDEWALK
- EXISTING SHELL DRIVE
- EXISTING BUILDING
- 1/2" WASHED SHELL
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- HAY BALES
- FLOATING TURBIDITY BARRIER



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25. TEMPORARY AND PERMANENT SEEDING AND PLANTING SHALL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
26. ALL MEASURES SHALL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT SHALL BE INITIATED WITHIN 24 HOURS OF REPORT.
27. THE LOCATION OF SILT FENCE AND OTHER BMP FACILITIES SHOWN ON THIS PLAN ARE APPROXIMATE ONLY. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THESE FACILITIES ARE PLACED IN A LOCATION AND MANNER THAT DOES NOT CONFLICT WITH THE LIMITS OF CONSTRUCTION OR AREAS TO BE PROTECTED AS SET FORTH IN THESE PLANS.

S-M050(10/01/10)

PROPERTY LINE/
MEAN HIGH WATER LINE

MANATEE RIVER

PROPERTY LINE/
MEAN HIGH WATER LINE

PROPERTY LINE/
MEAN HIGH WATER LINE

CONSTRUCTION SURFACE WATER MANAGEMENT PLAN (CSWMP) CERTIFICATION

OWNER/APPLICANT SIGNATURE _____ DATE _____

OWNER: CHARLIE BISHOP
TITLE: DIRECTOR
COMPANY: MANATEE COUNTY PROPERTY MANAGEMENT DEPARTMENT

DANIEL J. BOND, P.E.
REGISTERED PROFESSIONAL ENGINEER
NO. 57899
FLORIDA LICENSE NO. 57899

INDEX NUMBER: D-215610582-012x

SHEET NUMBER: 12* OF 13

NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	ACTIVITY	INITIALS/EMP. NO.	DATE
H	ADD EXISTING TREES/APPROX. DRIP LINES; ADD TREE PROTECTION NOTE 2	3/18/15	DJB/89366				
Δ	REV. NO.				WM APPROVED BY:		

Wilson Miller Stantec

6900 Professional Parkway East, Sarasota, FL 34240
Phone 941-907-6000 • Fax 941-907-6910
Certificate of Authorization #43 • FL Lic. # LC-0000170 • www.stantec.com

CLIENT: MANATEE BOARD OF COUNTY COMMISSIONERS

PROJECT: FT. HAMER PARK, PHASE II

DATE: NOVEMBER 2011
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: N/A

TITLE: BEST MANAGEMENT PRACTICES PLAN (PHASE IIA IMPROVEMENTS ONLY)

CROSS REFERENCE FILE NO.: 215610582_220

PROJECT NUMBER: 215610582_220

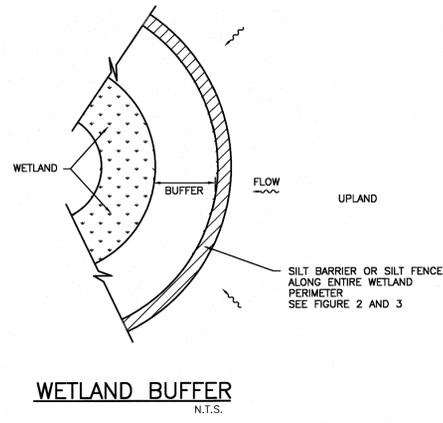


FIGURE 1

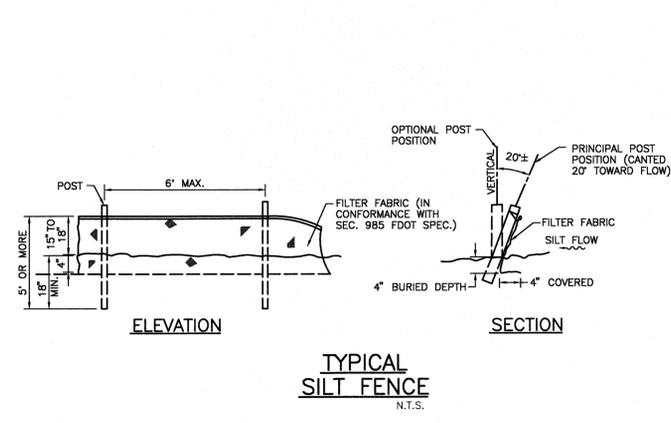


FIGURE 2

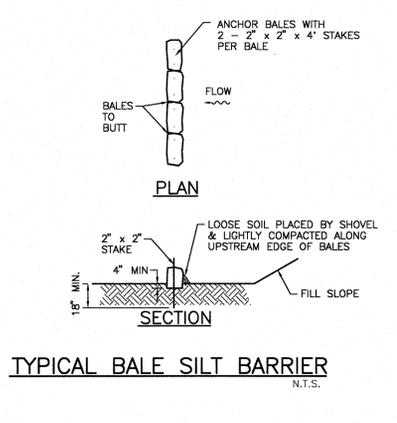


FIGURE 3

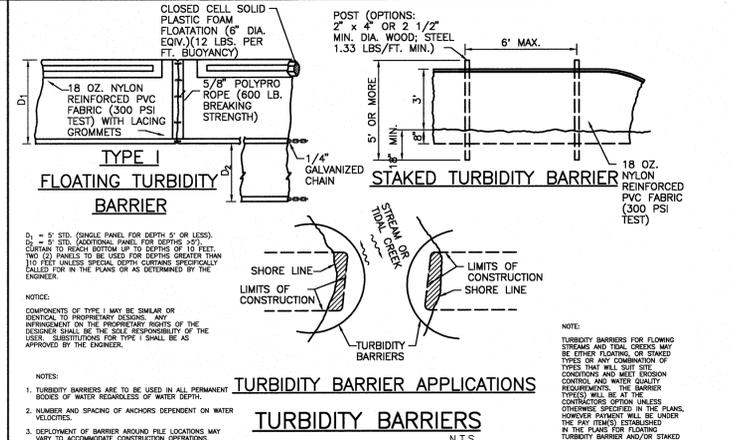


FIGURE 4

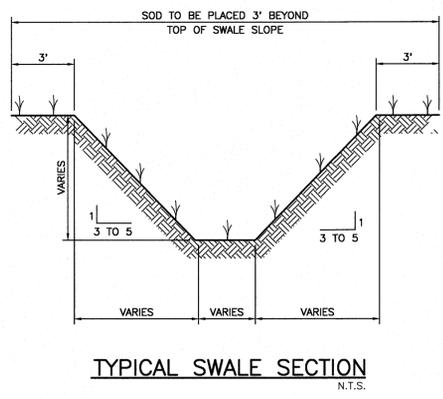


FIGURE 5

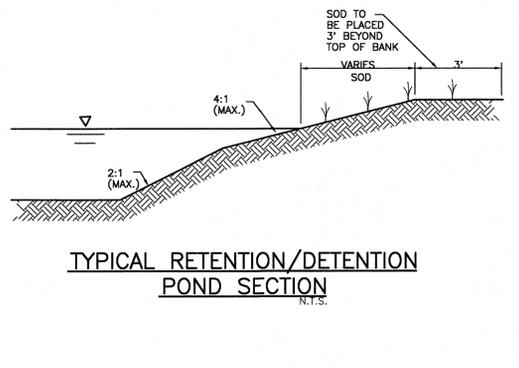


FIGURE 6

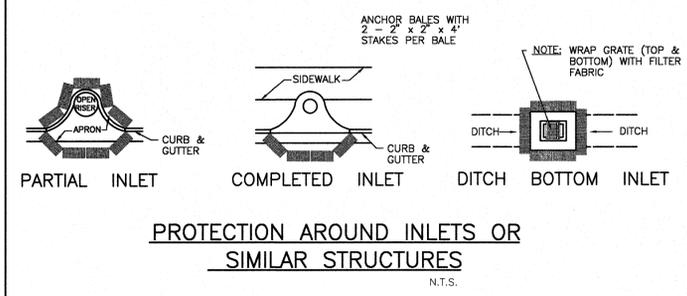


FIGURE 7

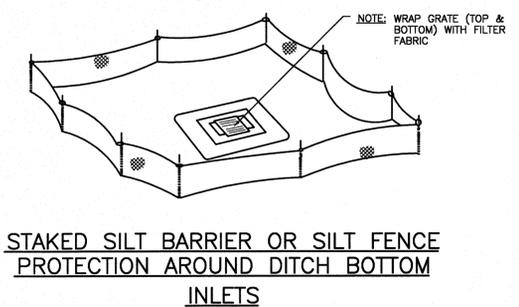


FIGURE 8

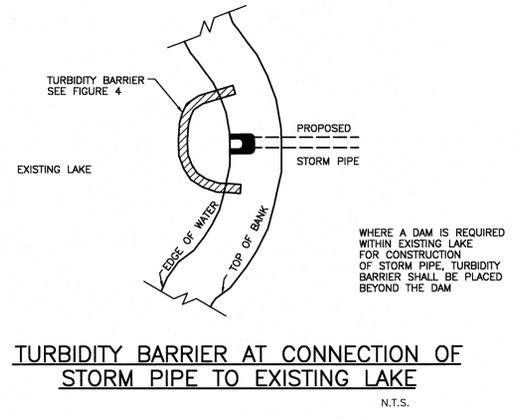


FIGURE 9

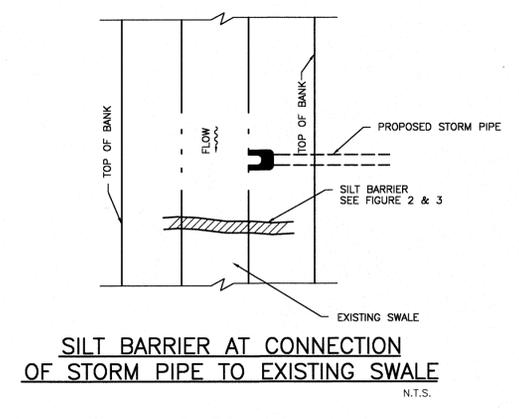


FIGURE 10

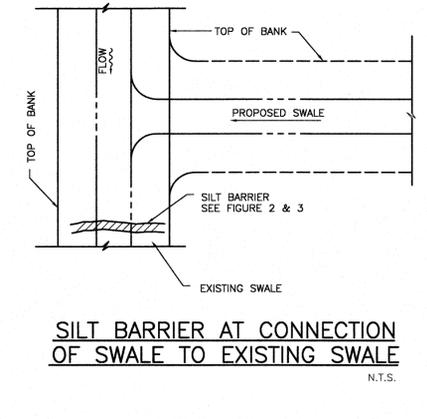


FIGURE 11

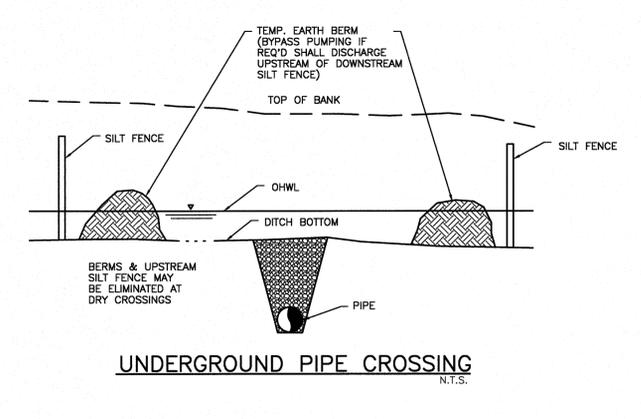


FIGURE 12

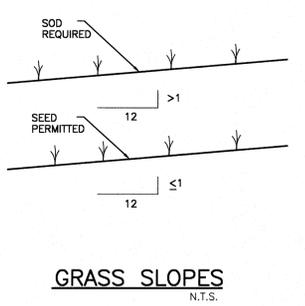


FIGURE 13

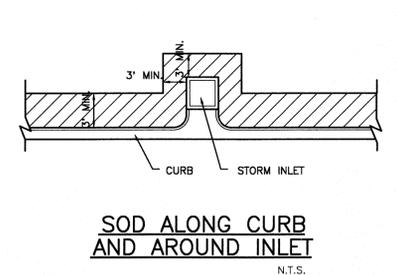


FIGURE 14

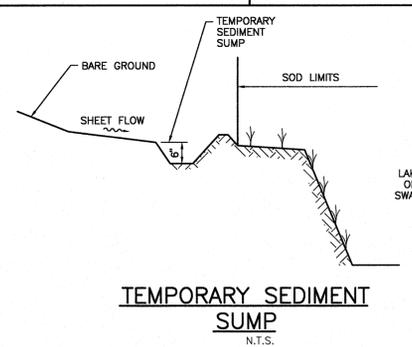


FIGURE 15

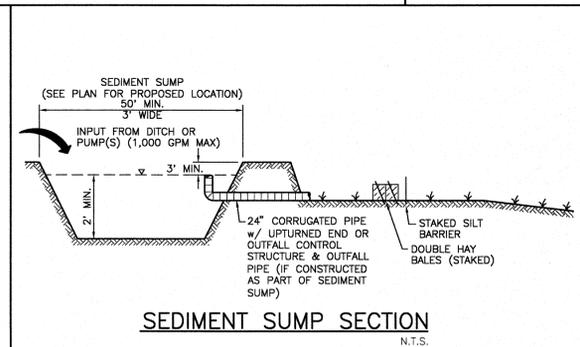


FIGURE 16

CONSTRUCTION SURFACE WATER MANAGEMENT PLAN (CSWMP) CERTIFICATION

OWNER/APPLICANT SIGNATURE _____ DATE _____

OWNER: CHARLIE BISHOP
TITLE: DIRECTOR
COMPANY: MANATEE COUNTY PROPERTY MANAGEMENT DEPARTMENT

REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:	ACTIVITY	INITIALS/EMP. NO.	DATE
						DESIGNED BY:		
						DRAWN BY:	ATO/89520	11/17/11
						CHECKED BY:		
						CONTRACT ADMIN. BY:		

Wilson Miller Stantec

6900 Professional Parkway East, Sarasota, FL 34240
Phone 941-907-6900 • Fax 941-907-6910
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CLIENT: MANATEE BOARD OF COUNTY COMMISSIONERS

PROJECT: FT. HAMER PARK, PHASE II

DATE: NOVEMBER 2011
HORIZONTAL SCALE: AS SHOWN
VERTICAL SCALE: AS SHOWN

TITLE: BEST MANAGEMENT PRACTICES DETAILS

PROJECT NUMBER: 215610582-220
SHEET NUMBER: 13 OF 13

02/13/08
D-215610582-013