

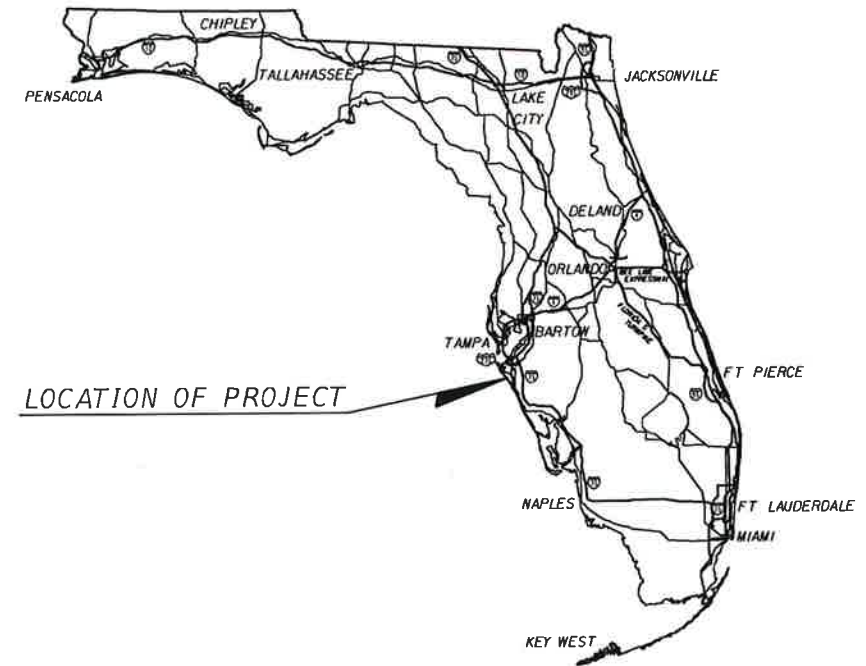
**MANATEE COUNTY  
PUBLIC WORKS DEPARTMENT**

**CONTRACT PLANS**

MANATEE COUNTY (13160)  
COUNTY PROJECT 6086260

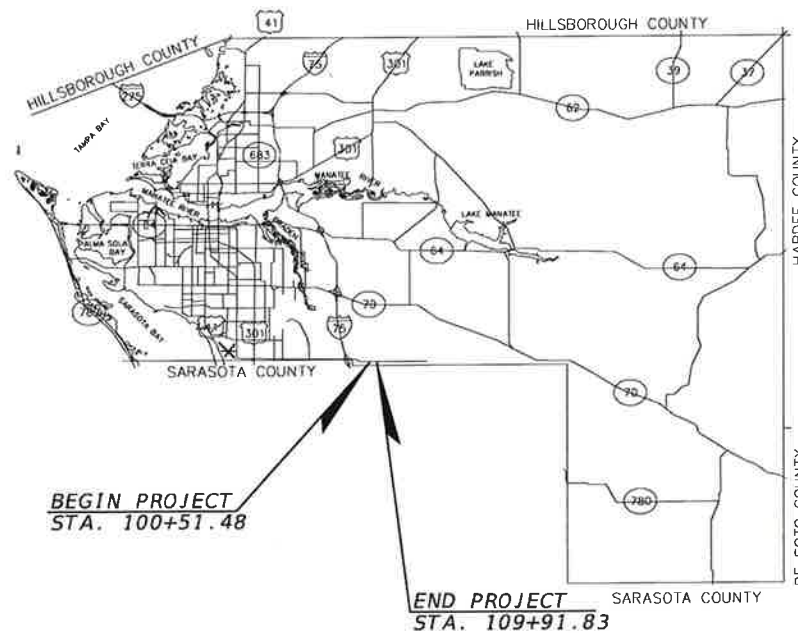
UNIVERSITY PARKWAY AT WATERVIEW BOULEVARD INTERSECTION

**SIGNALIZATION PLANS**



**INDEX OF SIGNALIZATION PLANS**

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T-16	STANDARD MAST ARM ASSEMBLIES DATA TABLE
GT-1 TO GT-2	REPORT OF CORE BORINGS



SIGNALIZATION SHOP DRAWINGS TO BE SUBMITTED TO:  
LIYANAGE I. RATNAYAKE, PE  
HDR ENGINEERING, INC.  
5426 BAY CENTER DRIVE, STE. 400  
TAMPA, FLORIDA 33609-3444  
PHONE NO. (813) 282-2300

PLANS PREPARED BY:  
HDR ENGINEERING, INC.  
2601 CATTLEMEN ROAD., STE. 400  
SARASOTA, FLORIDA 34232-6233  
PHONE NO. (941) 342-2700  
FAX (941) 342-6589  
CONTRACT NO. 12348  
VENDOR NO. VF-470680568  
CERTIFICATE OF AUTHORIZATION No. 4213

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

**FINAL SUBMITTAL  
FEBRUARY 2015**

GOVERNING STANDARDS AND SPECIFICATIONS:  
FLORIDA DEPARTMENT OF TRANSPORTATION JANUARY 2015 DESIGN STANDARDS AND REVISED INDEX DRAWINGS, AS APPENDED HEREIN, AND ALL OF DIVISIONS II & III OF THE JANUARY 2015 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AS AMENDED BY CONTRACT DOCUMENTS.

FOR DESIGN STANDARDS CLICK ON THE "DESIGN STANDARDS" LINK AT THE FOLLOWING WEB SITE: [HTTP://WWW.DOT.STATE.FL.US/RDDSIGN/](http://www.dot.state.fl.us/RDDesign/)

FOR THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION CLICK ON THE "SPECIFICATIONS" LINK AT THE FOLLOWING WEB SITE: [HTTP://WWW.DOT.STATE.FL.US/SPECIFICATIONSOFFICE/](http://www.dot.state.fl.us/specificationsoffice/)

MANATEE COUNTY TRANSPORTION DEPARTMENT HIGHWAY, TRAFFIC, AND STORMWATER STANDARDS 2007

**REVISIONS**

REVISION No. 1: 4/23/15 - SHEET T-4 - REVISED NOTES

MANATEE COUNTY PROJECT MANAGER: MICHAEL STURM, PE

KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION

SIGNALIZATION PLANS ENGINEER OF RECORD: LIYANAGE I. RATNAYAKE, P.E.

P.E. NO.: 77692

FISCAL YEAR	SHEET NO.
15	T-1

TRAFFIC CONTROL PLAN NOTES

1. EXISTING SPEED LIMITS ARE AS FOLLOWS:  
45 MPH ON UNIVERSITY PARKWAY  
25 MPH ON WATERVIEW BOULEVARD  
25 MPH ON BUSINESS BOULEVARD
- FOR TEMPORAY TRAFFIC CONTROL (TTC) PURPOSES, REGULATORY SPEEDS SHOULD BE MAINTAINED.
- △ 2. THE CONTRACTOR'S TRAFFIC CONTROL PLAN DURING CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE FDOT DESIGN STANDARDS INCLUDING BUT NOT LIMITED TO INDEX NO. 600, 612, 616, 617, AND 660. NO LANE CLOSURES WILL BE ALLOWED WITHOUT APPROVAL FROM MANATEE COUNTY. NO WORK ON WEEKENDS OR HOLIDAYS WILL BE ALLOWED WITHOUT APPROVAL FROM MANATEE COUNTY. SUBMIT TRAFFIC CONTROL PLAN TO PROJECT MANAGER FOR REVIEW AND APPROVAL PRIOR TO IMPLEMENTATION.
3. WHEN A CONTRACTOR IS WORKING ON A SIGNAL IN AN INTERSECTION (INSTALLING CONDUIT IN THE STREET, REMOVING EXISTING SIGNAL EQUIPMENT, INSTALLING SIGNAL EQUIPMENT, REMOVING OR INSTALLING LOOPS, HOMERUNS OR TURNING ON OF NEW SIGNAL) WHERE A LANE IS CLOSED, THE ENGINEER MAY REQUIRE AN OFF DUTY LAW ENFORCEMENT OFFICER TO DIRECT TRAFFIC. PAYMENT OF ALL DIRECT AND INDIRECT COSTS FOR A TRAFFIC CONTROL OFFICER ARE PAID UNDER BID ITEM 102-1.
- △ 4. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN FOUR PORTABLE 4' X 8' VARIABLE-MESSAGE SIGNS (VMS) FOR A PERIOD OF TWO WEEKS. THE VMS WILL BE LOCATED AT AN APPROPRIATE DISTANCE IN ADVANCE OF THE NORTH AND SOUTH APPROACHES TO THE NEW SIGNALIZED INTERSECTION AS SPECIFIED BY THE MAINTAINING AGENCY'S ENGINEER. THE VMS WILL BE PROVIDED (1) WEEK PRIOR TO THE SCHEDULED ACTIVATION TO FULL COLOR OPERATION AND SHALL REMAIN IN PLACE FOR ONE (1) WEEK FOLLOWING ACTIVATION. COST OF FURNISHING VMS TO BE INCLUDED UNDER PAY ITEM NO. 102-1 - MAINTENANCE OF TRAFFIC.

PRIOR TO ACTIVATION, THE VMS SIGN SHALL BE:  
(PANEL ONE - LINE 1) "TRAFFIC"  
(PANEL ONE - LINE 2) "SIGNAL"  
(PANEL ONE - LINE 3) "WILL BE"  
(PANEL TWO - LINE 1) "ACTIVATED"  
(PANEL TWO - LINE 2) "ON DAY"  
(PANEL TWO - LINE 3) "MONTH XX"

SUBSTITUTION FOR THE WORD "DAY" SHALL BE AS FOLLOWS:  
SUNDAY AS "SUN"  
MONDAY AS "MON"  
TUESDAY AS "TUES"  
WEDNESDAY AS "WED"  
THURSDAY AS "THUR"  
FRIDAY AS "FRI"  
SATURDAY AS "SAT"

SUBSTITUTION FOR THE WORD "MONTH" SHALL BE AS FOLLOWS:  
JANUARY AS "JAN"  
FEBRUARY AS "FEB"  
MARCH AS "MAR"  
APRIL AS "APR"  
MAY AS "MAY"  
JUNE AS "JUN"  
JULY AS "JUL"  
AUGUST AS "AUG"  
SEPTEMBER AS "SEP"  
OCTOBER AS "OCT"  
NOVEMBER AS "NOV"  
DECEMBER AS "DEC"

SUBSTITUTION FOR THE WORD "XX" SHALL BE AS FOLLOWS:

THE NUMERICAL DAY OF THE MONTH, FROM ONE (1) TO THIRTY-ONE (31). DATES LESS THAN TEN (10) SHALL BE PRECEDED BY A ZERO (0); EXAMPLE: "JAN 03" FOR JANUARY 3RD.

AFTER THE TURN-ON, THE VMS SHALL BE CHANGED TO

(PANEL ONE - LINE 1) "TRAFFIC"  
(PANEL ONE - LINE 2) "SIGNAL"  
(PANEL TWO - LINE 1) "NOW"  
(PANEL TWO - LINE 2) "ACTIVE"

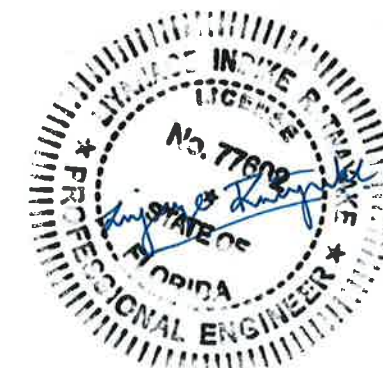
PANEL TWO, LINE 1 AND LINE 2, SHALL FLASH THREE (3) TIMES BEFORE REVERTING TO PANEL ONE.



SIGNING AND PAVEMENT MARKING NOTES

1. ALL MARKINGS WITHIN THE MANATEE COUNTY RIGHT-OF-WAY SHALL BE THERMOPLASTIC.
2. PAVEMENT MARKINGS SHALL BE PLACED AS SHOWN IN THE PLANS AND THE APPROPRIATE F.D.O.T. DESIGN STANDARDS INDEX.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LENGTH OF COLUMN SUPPORTS IN THE FIELD PRIOR TO FABRICATION.
4. REFER TO THE F.D.O.T. DESIGN STANDARDS INDEX NO. 17352 FOR RETRO-REFLECTIVE PAVEMENT MARKER PLACEMENT DETAILS.
5. CAUTION SHALL BE EXERCISED WHILE RELOCATING EXISTING SIGNS SO AS TO PREVENT DAMAGE TO THE SIGNS. IF THE SIGNS ARE DAMAGED BEYOND USE, AS DETERMINED BY THE ENGINEER, THEY SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
6. THE SIGN LOCATIONS ARE APPROXIMATE AND MAY REQUIRE FIELD ADJUSTMENT AS DIRECTED BY THE ENGINEER.
7. ANY EXISTING SIGN TO REMAIN THAT IS DISTURBED DURING CONSTRUCTION OR RELOCATED SHALL BE RESET TO CURRENT STANDARDS FOR HEIGHT, OFFSET, AND METHOD OF INSTALLATION. COST OF THIS WORK SHALL BE REFLECTED IN THE PAY ITEM NO. 102-1.
8. AT LOCATIONS WHERE UNDERGROUND UTILITIES ARE IN CLOSE PROXIMITY TO SIGN FOUNDATIONS AS DETERMINED BY THE CONTRACTOR, THE CONTRACTOR SHALL HAND DIG THE FIRST FOUR FEET OF THE HOLE FOR THE SIGN POST FOUNDATION.
9. UNLESS OTHERWISE NOTED ON PLAN SHEETS, ALL CROSSWALKS ACROSS MAJOR STREETS SHALL BE TEN FEET (10') IN WIDTH. MEASUREMENTS SHALL BE FROM INSIDE TO INSIDE OF 12" STRIPES.
10. ALL PEDESTRIAN SIGN PANELS INCLUDING SUPPLEMENTAL PANELS SHALL HAVE FLOURESCENT YELLOW-GREEN SHEETING.

ROADWAY NOTES

- △ 1. REMOVAL OF TREES IN THE MEDIAN AREAS ARE INCIDENTAL TO THE CLEARING AND GRUBBING PAY ITEM, 110-1-1.
2. CURB RETURNS SHALL BE GRADED TO MATCH EXISTING POSITIVE DRAINAGE FLOW.
3. ALL CONSTRUCTION SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT AND FLORIDA ACCESSIBILITY CODE AT CURBS, GUTTERS, SIDEWALKS, INTERSECTIONS, ETC. HANDICAP RAMPS ARE TO BE CONSTRUCTED WITH DETECTABLE WARNING SURFACES PER FDOT INDEX 304.
4. ALL EXISTING DRAINAGE STRUCTURES, UNDERDRAIN SYSTEMS, DITCHES, AND PONDS ARE TO REMAIN UNLESS OTHERWISE NOTED.
5. ALL MATERIALS NOT CLAIMED BY THE COUNTY SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY THE CONTRACTOR IN AREAS PROVIDED BY THE CONTRACTOR. THIS WORK SHALL BE INCLUDED IN AND PAID FOR UNDER THE PAY ITEM FOR CLEARING AND GRUBBING.
6. ALL AREAS OF EXPOSED EARTH RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE SODDED AS DIRECTED BY THE ENGINEER. SEEDING AND MULCHING SHALL BE APPLIED ONLY WHERE SPECIFICALLY CALLED FOR IN THE PLANS AND SPECIFICATIONS OR WHERE DIRECTED BY THE COUNTY.
7. ALL EXISTING AND PROPOSED UTILITY AND STORM DRAIN SEWER STRUCTURES WHOSE TOPS WILL BE EXPOSED WITHIN ANY SIDEWALK OR PAVED AREA SHALL BE ADJUSTED SO THAT THE TOP SURFACE OF COVERS OR FRAMES SHALL BE FLUSH WITH THE SIDEWALK OR PAVEMENT SURFACE. ALL EXISTING AND PROPOSED UTILITY AND STORM SEWER STRUCTURES WHOSE TOPS WILL BE EXPOSED IN UNPAVED AREAS SUBJECT TO VEHICULAR, BICYCLE, OR PEDESTRIAN TRAFFIC SHALL BE ADJUSTED SO THAT THE TOP SURFACE OF COVERS OR FRAMES SHALL BE NO MORE THAN ONE INCH ABOVE THE FINISHED GRADE. WHERE SODDING IS APPLIED, "FINISHED GRADE" SHALL BE NOMINAL HEIGHT OF GRASS AFTER THE SOD IS FIRMLY PLACED.
8. OVERALL CLEANUP SHALL BE ACCOMPLISHED BY THE CONTRACTOR TO THE SATISFACTION OF THE COUNTY. ANY AND ALL EXPENSES INCURRED FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE FOR MOBILIZATION.
9. THE CONTRACTOR SHALL NOT IMPEDE OR OBSCURE ACCESS TO ANY EXISTING VALVE COVERS WITH THE INSTALLATION OF DETECTABLE WARNING SURFACES.
10. ANY IRRIGATION LINES THAT ARE IMPACTED WITH THE MEDIAN WIDENING SHALL BE REMOVED AND CAPPED.



△	REVISED LANGUAGE IN TCP NOTE 2.	4/23/15	EL	SCALE	AS NOTED	 HDR Engineering, Inc. 2601 Cattleman Road Suite 400 Sarasota, FL 34232-6233 FBPR Certificate of Authorization No. 4213	DATE	2/13/2015	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER	LIYANAGE I. RATNAYAKE	PROJECT NOTES  SHEET NO. T-4
△	REVISED VMS QUANTITY IN TCP NOTE 4.	4/23/15	EL	DESIGNED BY	LIR		PROJECT NO.	6086260		FL. LICENSE NO.	77692	
△	REVISED LANGUAGE IN ROADWAY NOTE 1.	4/23/15	EL	DRAWN BY	EL							
				CHECKED BY	BB							
No.	REVISIONS	DATE	BY									