474444

INDEX OF SIGNALIZATION PLANS

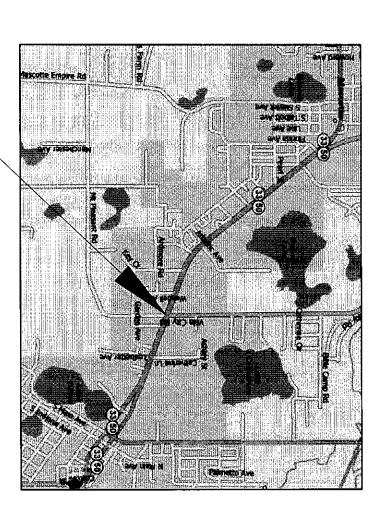
SHEET NO. SHEET DESCRIPTION KEY SHEET
TABULATION OF QUANTITIES
GENERAL NOTES

LAKE COUNTY, FLORIDA

SR 50 AT CR 565 (VILLA CITY ROAD)
PERMIT NO. 05-A-592-0077 SECTION 11020 - M.P. 14.921

SIGNALIZATION PLANS

PROJECT LOCATION



VICINITY MAP N.T.S.

PROJECT LOCATION

SIGNALIZATION PLAN SET

GOVERNING STANDARDS AND SPECIFICATIONS: FLORIDA DEPARTMENT OF TRANSPORTATION, DESIGN STANDARDS DATED 2006, AND STANDARDS SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 2007, AS AMENDED BY CONTRACT DOCUMENTS.

TO BE SUBMITTED TO:
FRED D. FERRELL, P.E.
TRAFFIC ENGINEERING DATA SOLUTIONS,INC.
615 N. CHARLES RICHARD BEALL BLYD., SUITE 10.3
DEBARY, FL. 32713
PH: (386) 775—TEDS FAX: (386) 775—6364
E-Moil: fferrell@teds—fl.com SIGNALIZATION SHOP DRAWINGS

PLANS PREPARED BY:

Traffic Engineering

"Pota Solutions, Inc.
Phone: (386) 775.TEDS 615 N. Charles Richard Beall Bird, Suite 103
Fax: (386) 775-6364 Debary,Fi 32713 ENGINEERING BUSINESS NO. 27392

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

SIGNALIZATION PLANS
ENGINEER OF RECORD: __
DATE: DECEMBER 28,
P.E. NO.: 41902

DECEMBER 28, 2007 0.: 41902

SHEET No. <u>-</u>1

None		7-9	TES.	QUANTITIES									_
NUMBER	Maritime	SHEET NO:		TABULA TIO	NECT.	OF FLORE	<u>₹</u>	me.	• '	2, 30	Engineer of Record: Fred Ferrell, P.E. PE No. 41902	REVISIONS DESCRIPTION	DATE BY
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MARINERY MORIZADINA MORIZ			910	910			910	0	5		THERMOPLASTIC, STANDARD, WHITE, SOLID, 6"		
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TITEM MPRILIZATION MPRILIZATIO							0	_	ጽ		VEHICLE DETECTOR ASSEM, F&I, OPTICAL TYPE	663-74-11	
TITION DESCRIPTION DESCR	Note		O1	Ch			0	ۍ د	æ		LOOP ASSEMBLY (TYPE F MOD) (6'x40')	660-2-106	
TITEM DESCRIPTION	INTERNAL DESCRIPTION		00	CO			0	æ	AS		LOOP ASSEMBLY (TYPE B) (6'x6')	660-2-102	
TITEM DESCRIPTION	INTEN		4	4			0	*	5		INDUCTIVE LOOP DETECTOR (TYPE 10, 2 CH, SS, RM, TD)	660-1-110	
NUTICAN DESCRIPTION	INTERNAL DESCRIPTION		4	*			0	4	E,		INDUCTIVE LOOP DETECTOR (TYPE 9, 2 CH, SS, RM)	660-1-109	
HIGHA DESCRIPTION	TOTAL PREDICTION PREDICTI						0	_	\$		SIGNAL HEAD AUXILIARIES, F&I, CONC PEDESTAL TYPE II		
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TEM DESCRIPTION	PREST PREST PRESCRIPTION UNIT SHEET 1-7 SHEET 1-7 TOTAL ORIG FINAL ORIG		3	υ (+	o c	3 0	2 5		INSTRUCTION SIGNAL, TOLL & SECTIONS, I WAT, SPECIAL		
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TIEM DESCRIPTION	Teal Description Descrip		15	15			0	15	Ę		PULL BOX	635-1-11	
BER DESCRIPTION UNIT SHEET 1-7 SHEET 1-7 SHEET 1-7 SHEET 1-7 SHEET 1-7 SHEET 1-7 SHEET 1-7	TEM DESCRIPTION UNIT SHEET T-4 SHEET T-7 SHEET T-7 TOTAL SHEET T-7		25	25			0	25	LF		SIGNALS- FIBERGLASS INSULATOR	634-5-1	
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TEM DESCRIPTION	ENER DESCRIPTION DESCRIPTION DRIG FINAL ORIG FI						0	_	▫		CABLE (SIGNAL)	632-7-1	
TITM DESCRIPTION	TEM DESCRIPTION		1 00	100			0	18			CONDUIT - SIGNALS, FURNISH & INSTALL, UNDER EXISTING		
TEM DESCRIPTION UNIT SHEET 1-7 SHEET 1-7 SHEET 1-7 SHEET 1-7 TOTAL GROWS THIS SHEET TOTA	SHEET 1-7 SHEE		770	770			0	770	_		CONDUIT - SIGNALS, FURNISH & INSTALL, UNDERGROUND	630-1-12	
TEM DESCRIPTION	TEM DESCRIPTION DESCRIPTION DESCRIPTION SHEET T-7 SHEET T-7 SHEET T-7 SHEET T-7 TOTAL ORIG FINAL ORIG F		20	20			0	20	<u> </u>		CONDUIT - SIGNALS, FURNISH & INSTALL, ABOVEGROUND		
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DITEM DESCRIPTION	NUMBER DESCRIPTION DESCRIPTION DESCRIPTION SHEET T-7 SHEET T-7 SHEET T-7 SHEET T-7 TOTAL T		12	20			20		+		SIDEWALK CONCRETE, 6" THICK	522-2	
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NITEM DESCRIPTION DESCRI	THEM DESCRIPTION DESCRIP		20	20			20	0	5		CONC. CURB & GUTTER, TYPE F	520-1-10	
ITEM DESCRIPTION DESCRIP	TOTAL GR THIS SHEET T-4 SHEET T-7 SHEET T-7 TOTAL GR THIS SHEET T-7 TOTAL TOTAL GR THIS SHEET TO THI							0	₹		공	337-7-20	
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1	ABOUT COANTILLES			1014									

GENERAL NOTES:

- THESE PLANS REFLECT CONDITIONS KNOWN DURING PLAN DEVELOPMENT. IN THE EVENT ACTUAL PHYSICAL CONDITIONS PREVENT THE APPLICATION OR THE PROGRESSION OF ANY WORK SPECIFIED IN THESE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD NUMEDIATELY AND PRIOR ANY FURTHER WORK ACTIVITY. 5
- IT SHALL BE NOTED THAT NO TEST BORINGS WERE MADE WHERE CONDUIT RUNS ARE TO BE INSTALLED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE THE JOB SITE CONDITIONS BEFORE SUBMITTING BID PROPOSALS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MR. LOGAN LAND (FDOT PERMIT MANAGER) AT \$22.35.300, MR. RAY MARLIN (FDOT TRAFFIC OPERATIONS) AT \$26.393.538 AND MR. STEVE BOLLINGER (LAKE COUNTY TRAFFIC OPERATIONS/MAINTAINING AGENCY) AT \$52.742.768 AND MR. STEVE BOLLINGES DAYS PRIOR TO BEGINNEWS MY DOOR IN THE RIGHT OF WAY; ANY LANE CLOSLINES AND AGAIN FOR LOOP INSTALLATION. ADDITIONALLY, MR. LAND SHALL BE NOTIFIED TWO (2) BUSINESS DAYS BEFORE ANY DIRECTIONAL BORDS AND MR. BOLLINGER SHALL BE NOTIFIED AT LEAST 24-HOURS IN ADVANCE OF INSTALLING SHALL PLESS, GROUND ROOS, UNDERGROUND CONDUIT AND THE SEALING OF SIGNAL HEADS, SHOULD HE WISH TO OBSERVE THESE ACTIVITIES. Ġ
- THE CONTRACTOR SHALL FURNISH LAKE COUNTY TRAFFIC OPERATIONS WITH EMERGENCY CONTACTS AND PHONE NUMBERS AND HAVE AN IMSA LEVEL II CERTIFIED SIGNAL TECHNICIAN ON CALL WITHIN A TWO (2) HOUR MAXIMUM RESPONSE TIME.
- A PRECONSTRUCTION MEETING SHALL BE SCHEDULED WITH OPERATIONS PRIOR TO ANY CONSTRUCTION. FDOT Š LAKE COUNTY
- ALL WORK WITHIN THE RIGHT OF WAY SHALL BE IN CONFORMANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND FDOT STANDARD INDICES, CURRENT EDITIONS. AND HARDWARE SHALL BE FDOT C OPERATIONS.

APPROVED

AND MEET THE REQUIREMENTS OF

LAKE

- ANY ITEMS NOT SPECIFICALLY ADDRESSED IN THESE PLANS, REFER SPECIFICATIONS AND STANDARD INDICES. TO FOOT STANDARD
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL NECESSARY PERMITS, INCLUDING ELECTRIC PERMIT, ALLONG WITH COORDINATION OF APPLICATION FOR POWER WITH LAKE COUNTY OPERATIONS. TRAFFIC
- .THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE POWER COMPANY PROVIDING ELECTRICAL POWER TO DETERMINE IF ANY ADDITIONAL FEES ARE REQUIRED TO CONNECT POWER, AND FOR CONNECTION OF POWER. IF REQUIRED, THE FEE SHALL BE INCLUDED AS PART OF BID ITEM PAYMENT FOR ELECTRICAL SERVICE ASSEMBLY.
- THE CONTRACTOR IS REQUIRED TO INSPECT THE INSTALLATION OF THE TRAFFIC SIGNALS) IN ACCORDANCE WITH FOOT STANDARD SPECIFICATION NOS-5.0. THE CONTRACTOR SHALL COORDINATE THE FINAL ACCEPTANCE INSPECTION IN ACCORDANCE WITH FOOT SPECIFICATION 611-6.2 WITH THE FOOT PERMIT MANAGER AT LEAST TEN (IO) BUSINESS DAYS IN ADVANCE. THE MAINTAINING AGENCY AND MR. RAY MARLIN SHALL ALSO BE CONTACTED TEN (IO) BUSINESS DAYS BEFORE THE INSPECTION IS TO BE PERFORMED SO THEY MAY BE PRESENT.
- THE CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF CONSTRUCTION "AS-BUILTS" ONE (1) TO FDOT, ONE (1) FOR CABINET, ONE (1) TO MAINTAINING AGENCY AND ONE (1) TO ENGINEER OF RECORD.
- 13. ENGINEER CERTIFICATION (IF PROJECT. REQUIRED) MUST BE RECENED WITHIN 30 DAYS OF COMPLETION 윆
- TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH FDOT DESIGN STANDARD INDICES, CURRENT EDITION. 8 SERIES,
- 15. NO LANE CLOSURES ARE ALLOWED ALONG STATE ROAD 50 FROM? 8 AW - 7500
- INCIDENTAL TO THE WORK AND WILL NOT BE PAID SEPARATELY. THE USE OF TRAFFIC CONTROL OFFICERS IN THE EVENT OF LANE CLOSURES SHALL
- . UTILITY LOCATIONS SHOWN ON PLANS ARE BASED ON BEST INFORMATION AVAILABLE AT THE TIME PLANS PREPARATION AND SHALL BE USED FOR GENERAL INFORMATION ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE EXACT LOCATIONS OF ALL UTILITIES PRIOR TO BEGINNING ANY WORK. 읶
- THE CONTRACTOR SHALL HAND DIG THE FIRST 48 INCHES OF THE KOLE FOR THE STRAIN POLETS; FOUNDATION AND 24 INCHES OF THE HOLE FOR EACH REDESTAL LOCATION TO VERIFY THERE ARE UTILLTY CONFICTS. SHOULD THERE BE OTHER UTILLTIES; THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER WHO WILL RESOLVE THE CONFILCT AND ADJUSTMENT, IF REQUIRED. ₹

- ō THE CONTRACTOR SHALL HAND DIG THE FIRST 48 INCHES OF THE HOLE FOR THE STRAIN POLEIS) FOUNDATION AND 24 INCHES OF THE HOLE FOR EACH PEDESTAL LICATION TO VERIFY THERE ARE UTILITY CONFLICTS. SHOULD THERE BE OTHER UTILITIES, THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER WHO WILL RESOLVE THE CONFLICT AND ADJUSTMENT, IF REQUIRED. ₹
- ġ THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY DEPARTMENTIS) AT LEAST 48 ADVANCE OF POLE SETTING OPERATIONS WHERE A CONFLICT WITH OVERHEAD ELECTRICAL IS EXPECTED AND/OR WHEN JOINT USE POLES ARE TO BE USED. COMDUCTORS
- Ø THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING THE PROPER AMOUNT OF RESPECT TO LOADING TO BE USED ON POLES AT THE TIME OF INSTALLATION. RAKE WITH
- THE CONTRACTOR SHALL VERHY COLOR CODES FOR SIGNAL CABLE AND INTERCONNECT WITH LAKE COUNTY TRAFFIC OPERATIONS BEFORE ORDERING MATERIAL
- Ğ SIGNAL CABLE SHALL BE ATTACHED TO MESSENGER WIRE USING PROPER SIZE SPIRAL WRAP.
- 2 SEPARATE CONDUIT AND PULL BOXES SHALL BE PROVIDED FOR LOOP WIRE, SIGNAL CABLE ELECTRICAL SERVICE WIRE. ₽
- ß THE CONTRACTOR SHALL CONTACT THE POWER COMPANY (PROGRESS ENERGY) AT LEAST 48 HOURS TO INSTALLING SIGNAL CABLE. THE POWER COMPANY AND/OR ELECTRIC DEPARTMENT PERSONNEL BE ON-SITE WHEN FEEDING THE CABLE IN BETWEEN THE EXISTING ELECTRICAL WIRE. SHALL
- 93 THE CONTRACTOR SHALL MOTIFY SUNSHINE ONE CALL: AT 1-800-432-4770 AT LEAST 48 HOURS IN ADVANCE OF AMY EXCANATION OR ANY WORK WHICH WILLD OTHERWISE INTERFERE WITH ANY ABOVE GROUND UTILITIES. IN ADDITION, THE CONTRACTOR SHALL DIRECTLY MOTIFY ALL UTILITIES WHICH ARE MOT "SUNSHINE ONE CALL: NEUBERS, BUT MAY HAVE EXISTING FACILITIES WITHIN THE VICINITY OF THE PROJECT. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR MAINTAINING A CURRENT LOCATE TICKET THROUGHOUT THE DURATION OF THE WORK.
- PRIOR TO STARTING ANY CONSTRUCTION, THE CONTRACTOR SHALL I AFFECTED BY THE WORK. THE FOLLOWING IS A PARTIAL LISTINGS NOT IFY ALL UTILITIES WHICH R

2

CITY OF GROVELAND LAKE APOPKA NATURAL GAS DISTRICT LAKE COUNTY PUBLIC WORKS LAKE COUNTY SIGNAL DEPARTMENT SUNSHINE ONE—CALL PROGRESS ENERGY MCI NETWORK SERVICES, BRIGHT HOUSE METWORKS, LLC है CHRISTOPHER B. JOHN WOSLK! JUAN CHAN LARRY WALKER RICK GULLETT SUE FREYSER TIM COLE STEVE BOLLINGER (800) 432-4770 LOVE (352) 429-027 (407) 466-517 (407) 846-8364 (407) 84-4226 (407) 84-5271 (386) 775-4444 (352) 253-4952 (352) 742-1768 EXT

SIGNS:

- INTERNALLY ILLUMINATED SIGNS SHALL BE LED ILLUMINATED AND HAVE SEPARATE CIRCUIT BREAKERS.
- 'n THE SUPPORT ARM AND BRACKET FOR THE INTERNALLY ILLIMINATED STREET NAME SIGNS) SHALL BE DESIGNED TO SUPPORT A SIGN WERGHING 75 POUNDS AND SUSTAINED WINDS OF 110 MPH. THE COST OF SUPPORT ARMS) SHALL BE INCLUDED IN THE PAY ITEM FOR THE SIGNS (689-1-1).

SIGNAL HEADS:

- SHALL BE PROHIBITED. BE WIRED DIRECTLY TO H TERMINAL BLOCKS. Ħ USE OF JONES. PERS
- R 'n VEHICLE SIGNAL HEADS SHALL BE BLACK, CAST ALUMINUM, WITH TUNNEL VISORS Š Б DISPLAYS FOR
- Ģ FROM S SIGNAL HEADS SHALL HAVE A VERTICAL IN THE BOTTOM OF THE ASSEMBLY TO T ₹ MOMIXAM

-ANY STRIPING REPLACED AT ' PAVENENT MARKINGS DESTROYED BY CONTRACTOR DURING CONSTRUCTION SHALL BETHE CONTRACTOR'S EXPENSE.

PEDS

- -2006 FDOT STANDARD INDEX 17784, 2/2 CALLS FOR FTP-25-04 AND RIO-3E (MODIFIED) WITHOUT
- ļο THE CONTRACTOR SHALL INSURE THAT A 4'X4' FLAT LANDING AREA (522-1) IS ADJACENT TO ALL PEDESTRIAN BUTTONS FOR PEDESTRIAN ACCESS.
- 3. THREE (3) SPARE CONDUCTORS SHALL BE RUN TO THE SIGNAL HEAD FURTHEST FROM CONTROLLER.
- ALL PEDESTRIAN SIGNALS SHALL BE 16" LED, COUNTDOWN TYPE.

LOOPS / PULL BOXES:

۶

- EACH LOOP SHALL BE TREATED AS AN INDIVIDUAL LOOP WITH SEPARATE LOOP LEAD-INS, FROM SPLICE POINT TO CABINET TERMINAL.
- THE STOP BAR. SHALL BE 40' LONG BY 6' WIDE, CENTERED UPON LANE AND EXTENDING 5' BEYOND

'n

LOOP HOME RUNS SHALL NOT BE CUT INTO THE RADIUS.

'n

- A. PULL BOXES COVER LOSO AND COVERS SHALL BE FOOT APPROVED OF MONNETALLIC CONSTRUCTION WITH RECESSED STAMPED 'TRAFFIC SIGNAL'.
- PULL BOXES SHALL BE LOCATED TEN (KO) FEET FROM EDGE OF PAVEMENT OR BEHIND CURB WHEN POSSIBLE, ATTEMPTING TO KEEP FROM BOTTOM OF A DITCH OR RETENTION AREA.

TIMINGS / CONTROLLER:

- DELAY TIMES SHALL BE SET AT FINE (5) SECONDS.
- A MANUAL PUSH BUTTON CORD SHALL BE FURNISHED IN THE CONTROLLER CABINET.
- THE MOUNTING OF ELECTRICAL SERVICE TO THE TRAFFIC SIGNAL CABINET SHALL BE PROHIBITED.
- * THE CONTROLLER ASSEMBLY SHALL BE A LAKE COUNTY MAZTEC REGIONAL TS2-1, WITH A TS2-2 CONTROLLER ETHERNET ENABLED FOR COUNTY CLOSED LOOP SYSTEM, AND SHALL INCLIDE A GENERATOR SWITCH BOX PANEL.
- A CONCRETE GENERATOR PAD, 3'X3'X4', SHALL BE INSTALLED AND PAID FOR AS PART OF PAY ITEM NO. 670-5-III.
- ō THE CABINET DOOR SHALL OPEN AWAY FROM THE INTERSECTION WHEN POSSIBLE.
- 7. GROUNDING FOR THE CONTROLLER ASSEMBLY SHALL MEASURE 25 OHMS OR LESS.

VEHICLE DETECTOR ASSEMBLIES:

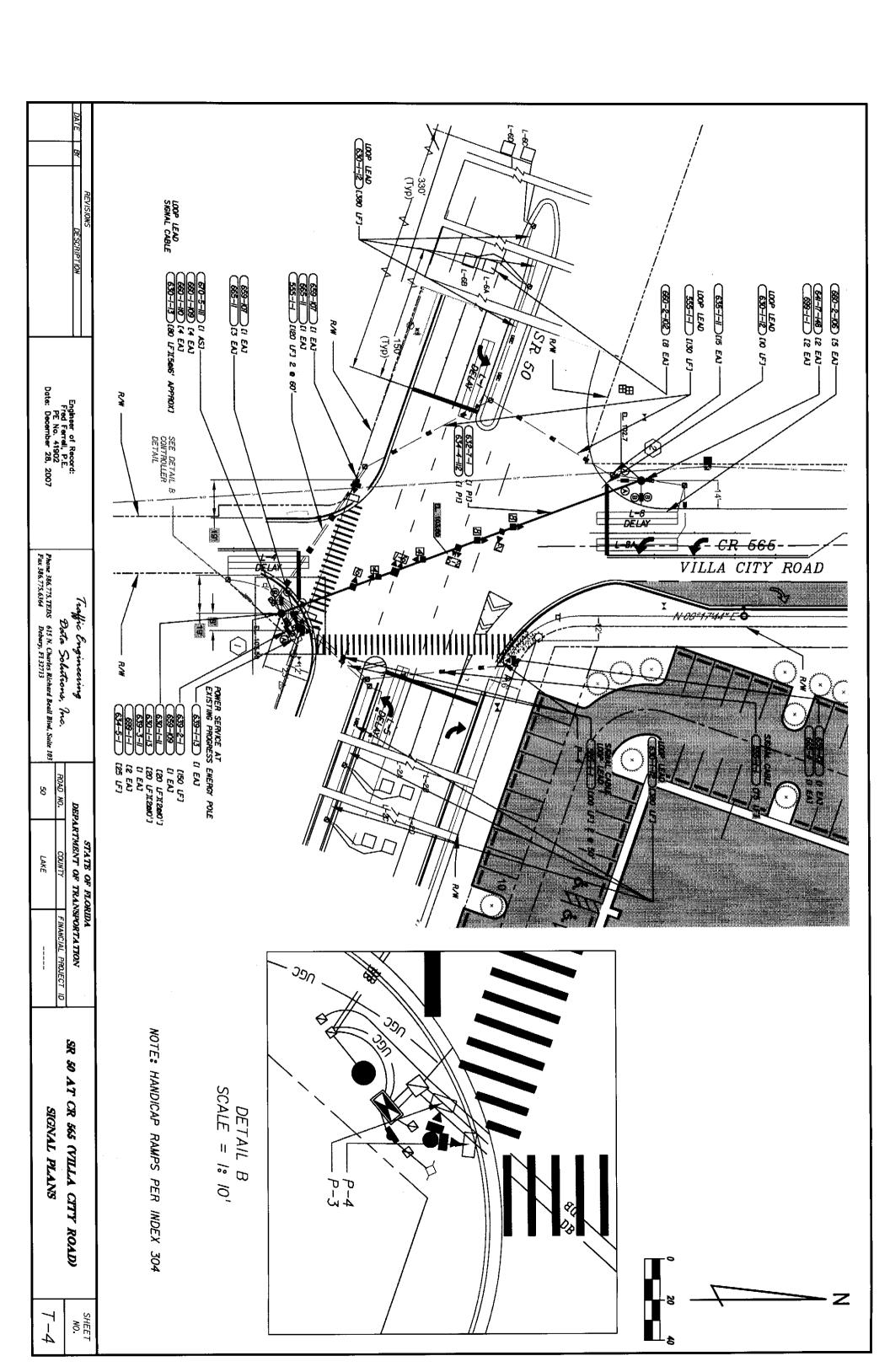
CONSTRUCTION SC OPERATIONAL.

THE CONTRACTOR SHALL NOTIFY FOOT PERMIT MANAGER TWO (2) BUSINESS DAYS PRIOR TO TURNING TRAFFIC SIGNAL ON FLASH.

THE OPTICAL TYPE VECHICLE DETECTOR ASSEMBLIES SHALL BE 3M OPTICOM OR EQUIVALENT. PAY ITEM 663-74-11 SHALL INCLIDE ALL MATERIALS NECESSARY TO ENABLE THE VEHICLE DETECTOR TO BE

- 70 AT THE TIME TWO (2) AND S E OF ACTIVATION, THE NEW SIGNAL SHALL BE PLACED IN FLASH MODE, WITH MOVEMENTS SIX (6) FLASHING YELLOW AND ALL OTHERS FLASHING RED.
- PRIOR TO TURN KIGNAL SHALL FLASH NO LESS THAN SEVEN (7) DAYS AND NO MORE THAN FOURTEEN (14) DAYS TURN-ON INSPECTION
- CAUTION_CAUTE AT THE TIME (E OF ACTIVATION, PORTABLE VARIABLE MESSAGE SIGNS (VMS) SHALL BE PLACED ON EACH 50 FEET IN ADVANCE OF INTERSECTION) OF INTERSECTION AND SHALL FLASH; TION_CAUTION / NEW_TRAFFIC _SIGNAL; SIGNS SHALL REMAIN IN PLACE DURING FLASH AFTER FULL ACTIVATION OF TRAFFIC SIGNAL.

			DESCRIPTION	SNOISIA	
Date: December 28, 2007	PE No A1002	engineer of record:	Tour of Book		
Phone 386,775,TEDS 615 N. Charles Richard Beall Blvd, Suite 103 Fax 386,775,6364 Debary, Fl 32713	Vala Solutions, Inc.		Later Confinence	7 11 8	
50	ROAD NO. COUNTY	The same	ים גם שת		
LAKE	COUNTY	CARRIED ON TAKE	NOT A TRACESS A GT TO A TRAMTA A GRAD	STATE OF FLORIDA	
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	GENERAL NOTES				
7-3			ð	SHEET	

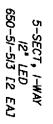


SIGNAL HEADDETAILS

1-6, 2-5









MOVEMENT

<u>6</u>6

DETECTOR DETECTOR CHANNEL NUMBER

OF DELAY

Detector Configuration Chart

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-24 & 28

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DET.

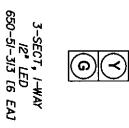
8

MIN. GREEN MAX. GREEN YELLOW

Controller Operations







SEE SHEET T-7 FOR SIGN DETAIL (SIGNS A AND B ARE DUAL SIDED, LED ILLUMINATED)

SIGN DETAIL

LEGEND:



P4. P6

(7)



I-SECT I-WAY
I-SECT 2-WAY
INTERNATIONAL
PEDESTRIAN SIGNAL
653-191 [2 EA]
653-192 [1 EA]

6

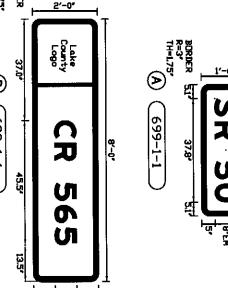
MOVEMENT NUMBER

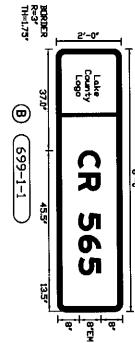
CONDUIT (DIRECTIONAL BORE)

CONDUIT (UNDERGROUND)

TYPE "B" LOOP 6'X6'

TYPE "F" (MOD) LOOP 6'X40'





•	1		_
@	37.0*	Lake County Logo	
) (699-1-1)	45.5' 13.5'	CR 565	8'-0"
	l	- 8 8 8 8	l

INTERNALLY ILLUMINATED STREET NAME SIGN

FIBER OPTIC PULL BOX

PULL BOX

OPTICOM EMERGENCY PRE-EMPTION DETECTOR

5-SECTION HEAD

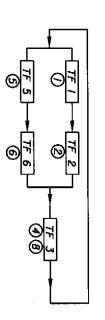
3-SECTION HEAD

POLE NUMBER

CONTROLLER CABINET

CONCRETE STRAIN POLE

RING DIAGRAM



B

92

DESCRIPTION

Engineer of Record: Fred Ferrell, P.E. PE No. 41902 Date: December 28, 2007

Phone 386.775.TEDS 615 N. Charles Richard Beall Bird, Suite 103 Fax 386.775.6364 Debary, Fl 32713

Traffic Engineering

Data Solutions, Inc.

ROAD NO. શ્

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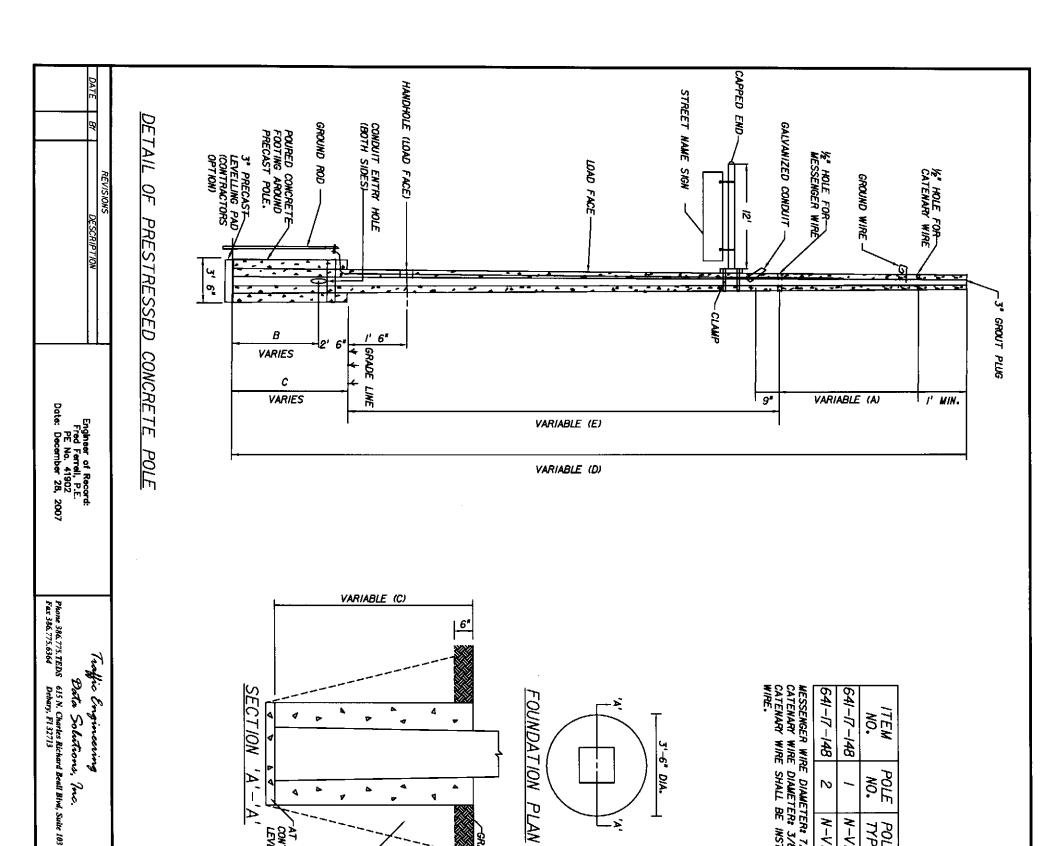
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PHASE MOVEMENT DIAGRAM

NOTES: Fully Actuated (2+6 Shall Flash Yellow; All Other Shall Flash Red Controller Shall Be Wired And Contain All Load Switches For Future 8 Phase Operation. Controller. Use SOP 7.

STATE OF FLORDA
DEPARTHENT OF TRANSPORTATION FINANCIAL PROJECT SIGNALIZATION DETAILS

SHEET NO.



POLE SCHEDULE

NO.	.0N 370d	POLE FOLE	YTITNAUD	A	В	c	D	E
41-17-148	1	11.A-N	1	// . 5'	9.5'	13.0'	48.0'	22.5'
41-17-148	2	N-V11	1	II.5'	9.5'	13.0'	48.0	22.5'

MESSENGER WIRE DIAMETER: 7/16" UTILITY GRADE
CATENARY WIRE DIAMETER: 3/8" UTILITY GRADE
CATENARY WIRE SHALL BE INSTALLED WITH MINIMUM VERTICAL SEPARATION OF WIRE.

1.0' FRO

MESSENGER

NOTES:

3'-6" DIA

- FOOTING CONSTRUCTION SHALL COMPLY WITH FDOT SPECIFICATION SECTION 64I CONCRETE STRAIN POLES.
- DESIGN WIND SPEED = 110 MPH (1994 SPEC). (EQUAL TO 81 MPH 2001 SPEC.)

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- THE METHOD OF ATTACHMENT IS TWO-POINT FOR THE CONCRETE STRAIN POLE OVERHEAD ASSEMBLY.
- CONCRETE STRAIN POLES SHALL BE CLASS VII SPECIAL CONCRETE, f'c = 6,000 psi.
- DESIGN OF THE CONCRETE STRAIN POLE SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS.
- FOR ALL (OTHER DETAILS AND REQUIREMENTS ON CONCRETE STRAIN POLES, REFER TO WDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2007.

FOUNDAT ON NOTES:

BACKFILL (SEE NOTE)

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EXCAVATION & BACKFILL: EXCAVATION AND BACKFILL FOR THE FOOTINGS SHALL BE IN ACCORDANCE WITH ARTICLES 125-4 AND 125-8.2 WITH THE EXCEPTION OF THE BACKFILL, IN LIEU OF THE REQUIREMENTS FOR OBTAINING THE SPECIFIED DENSITY, MAY BE HAND TAMPED IN FOUR INCH MAXIMUM LAYERS OR MACHINE TAMPED IN SIX INCH MAXIMUM LAYERS. THE MATERIAL SHOULD BE NEITHER DRY NOR SATURATED. AT THE CONTRACTORS
OPTION BACKFILLING MAY BE DONE WITH POURED CONCRETE.

CONCRETE: FOOTING TO BE POURED WITH CLASS I CONCRETE (SECTION 345).

'A'-'A'

LEVELING PAD MAY BE USED

FORMS: FORMS SHALL BE IN ACCORDANCE WITH ARTICLE 700-8.3. (IF THE FOOTING IS POURED IN A OVERSIZED HOLE, THE CONCRETE IN THE TOP SIX INCHES SHALL BE PLACED IN A FORM. ALL EXPOSED SURFACES SHALL BE TROWELED TO A SMOOTH FINISH.

DETAILS	CRETE POLE

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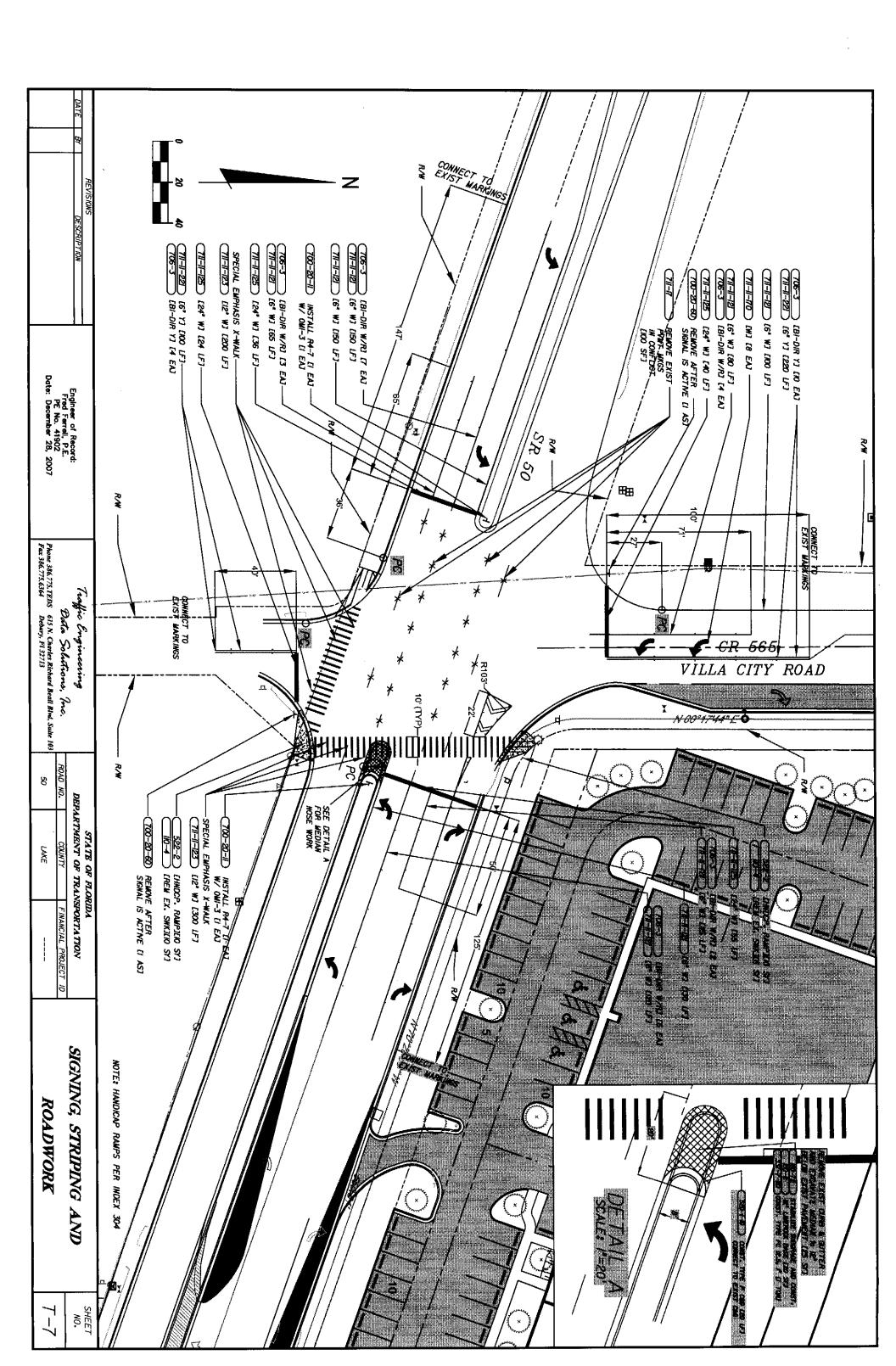
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DEPARTMENT OF TRANSPORTATION STATE OF FLORIDA

FINANCIAL PROJECT

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 DESCRIPTION 37.8 Engineer of Record: Fred Ferrell, P.E. PE No. 41902 Date: December 28, 2007 BORDER R=3" TH=1" 2'-0" 4'-0 37.8 Phone 386.775.TEDS 615 N. Charles Richard Beall Bird, Suite 103 Fax 386.775.6364 Debary, Fl 32713 깤 Traffic Engineering 1-00-1 8 EM Bata Solutions, Inc. COPY C R 5 6 5

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COPY SPACE SP NOW CENTRAL COUNTY STEE WEIGHT ROAD NO. ઇ STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION STATION(S) ₩ H COUNTY LAKE 45.5 BORDER R=3" TH=1.75" FINANCIAL PROJECT ID 2'-0" County Logo 37.0* GUIDESIGN WORKSHEET CR 565 8'-0" F 0 1 0 1 0 1 SHEET NO.