

CONTRACT PLANS COMPONENTS

ROADWAY
SIGNING AND PAVEMENT MARKING
SIGNALIZATION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
SIGNALIZATION PLANS

FINANCIAL PROJECT ID 440787-1-52-01

VOLUSIA COUNTY (79160)

STATE ROAD NO. 15A
SR 15A (SPRING GARDEN AVENUE) AT SR 44 (NEW YORK AVENUE)
ADD SOUTHBOUND RIGHT TURN LANE

INDEX OF SIGNALIZATION PLANS

SHEET NO.	SHEET DESCRIPTION
T-1	KEY SHEET
T-2	SIGNATURE SHEET
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T-9	MOUNTING DETAIL
T-10	CABINET DETAIL
T-11	STRAIN POLE SCHEDULE
T-12 - T-13	REPORT OF CORE BORINGS

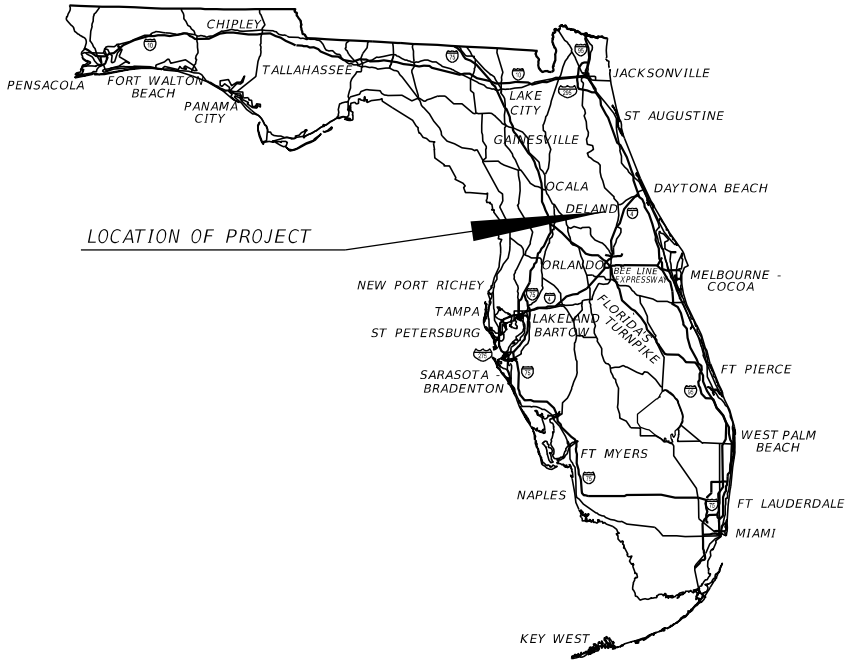
PROJECT LOCATION URL: <https://tinyurl.com/2s4j5sn2>

PROJECT LIMITS: BEGIN MP 2.748 – END MP 2.816

EXCEPTIONS: NONE

BRIDGE LIMITS: NONE

RAILROAD CROSSING: NONE



GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2026-27 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road Construction and associated IRs are available at the following website: <http://www.fdot.gov/design/standardplans>

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, 2026-27 Standard Specifications for Road and Bridge Construction at the following website: <http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

SIGNALIZATION PLANS
ENGINEER OF RECORD:

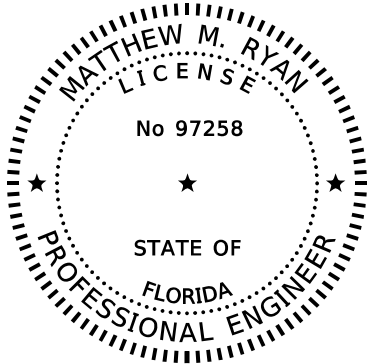
MATTHEW M. RYAN, P.E.
P.E. LICENSE NUMBER 97258
STANLEY CONSULTANTS, INC.
80 SPRING VISTA DRIVE
DEBARY, FL 32713
(386) 753-7102
CONTRACT NO.: CAN41
VENDOR NO.: 42-1320758

FDOT PROJECT MANAGER:

RANDALL TURNER

PHASE III SUBMITTAL

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
TBD	27	T-1



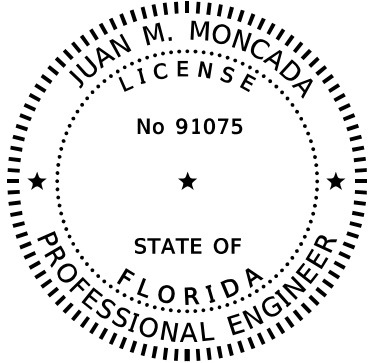
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STANLEY CONSULTANTS, INC.
80 SPRING VISTA DRIVE
DEBARY, FLORIDA 32713
MATTHEW M. RYAN, P.E. NO. 97258

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T-8	WIRING DIAGRAM
T-9	MOUNTING DETAIL
T-10	CABINET DETAIL



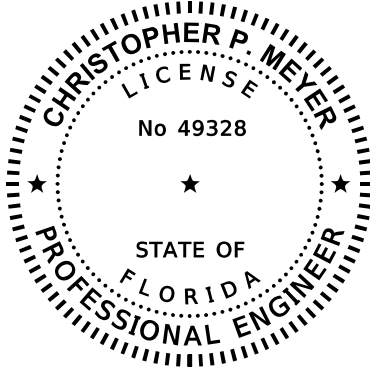
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SPICER BRIDGE CONSULTANTS, INC.
100 E. PINE ST., SUITE 110
ORLANDO, FLORIDA 32801
JUAN M. MONCADA, P.E. NO. 91075

SHEET NO.	SHEET DESCRIPTION
T-2	SIGNATURE SHEET
T-11	STRAIN POLE SCHEDULE



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GEOTECHNICAL AND ENVIRONMENTAL
CONSULTANTS, INC.
919 LAKE BALDWIN LANE
ORLANDO, FLORIDA 32814
CHRISTOPHER P. MEYER, P.E. NO. 49328

SHEET NO.	SHEET DESCRIPTION
T-2	SIGNATURE SHEET
T-12 -T-13	REPORT OF CORE BORINGS

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNATURE SHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				MATTHEW M. RYAN, P.E. LICENSE NUMBER: 97258 STANLEY CONSULTANTS, INC. 80 SPRING VISTA DR. DEBARY, FL 32713	SR 15A	VOLUSIA	440787-1-52-01		T-2

GENERAL:

1. TRAFFIC SIGNAL CONTACTS:
VOLUSIA COUNTY TRAFFIC ENGINEERING
(386) 753-5968
FDOT TRAFFIC OPERATIONS QUALITY ASSURANCE MANAGER
(386) 943-5329

VOLUSIA COUNTY'S GENERAL NOTES:

1. NOTIFY VOLUSIA COUNTY TRAFFIC ENGINEERING AT LEAST TWO (2) BUSINESS DAYS PRIOR TO BEGINNING WORK. NOTIFY ALLEN CATES AND TIM KARR (386) 736-5968.
2. COORDINATE THE WORK SCHEDULE, COORDINATE TIMING AND AUTHORIZATION OF POWER SERVICE WITH VOLUSIA COUNTY TRAFFIC ENGINEERING. NOTIFY ALLEN CATES, TIM KARR, AND KARL EWALD (386) 736-5968
3. UNLESS OTHERWISE NOTED, ALL REMOVED EQUIPMENT MUST BE DELIVERED TO VOLUSIA COUNTY TRAFFIC OPERATIONS, 3771 W. INTERNATIONAL SPEEDWAY, DAYTONA BEACH FL, 32124, EXCEPT CONCRETE POLES, WHICH SHALL BE DISPOSED AT NO ADDITIONAL COST TO THE DEPARTMENT.
4. EXISTING SIGNALIZATION MUST REMAIN IN PLACE TO THE EXTENT POSSIBLE AND MUST BE USED FOR THE MAINTENANCE OF TRAFFIC AS REQUIRED.
5. NO TEST BORINGS WERE MADE WHERE CONDUIT RUNS ARE TO BE INSTALLED BY JACKING, DIRECTIONAL BORING, OR TRENCHING.
6. DO NOT CHANGE SIGNAL TIMINGS. VOLUSIA COUNTY WILL MAINTAIN ALL SIGNAL TIMINGS BEFORE, DURING, AND AFTER CONSTRUCTION. IF ANY CHANGES ARE MADE, A TIMING SHEET MUST BE PLACED IN THE CONTROLLER CABINET WITH THE DATE AND TIME OF INSTALLING, ALONG WITH A CONTACT NUMBER.
7. JONES PLUGS ARE NOT PERMITTED.
8. IN THE EVENT THAT PAVEMENT VEHICLE DETECTION IS DISTURBED, PROVIDE AN ALTERNATE MEANS OF DETECTION (VIDEO OR RADAR) TO ALL LANES APPROACHING THE INTERSECTION, SEPARATING EACH MOVEMENT WHICH PREVIOUSLY HAD DETECTION. THE TYPE OF DETECTION MUST BE APPROVED BY THE ENGINEER AND VOLUSIA COUNTY TRAFFIC ENGINEERING (MAINTAINING AGENCY) PRIOR TO INSTALLATION. THE EQUIPMENT MUST ONLY DETECT THE INTENDED MOVEMENT.
9. PROVIDE AND MAINTAIN A BACKUP GENERATOR FOR ALL THE TIME THAT THE EXISTING TRAFFIC SIGNAL IS ON GENERATOR BACKUP TO POWER THE SIGNAL.
10. CONTRACTOR SHALL CONTACT FDOT QA MANAGER 10 DAYS PRIOR TO SIGNAL GOING TO FULL OPERATION.

SIGNS & STREET LIGHTS:

1. LED INTERNALLY ILLUMINATED STREET NAME SIGNS MUST HAVE A SEPARATE POWER BREAKER, LOCATED IN THE CONTROLLER CABINET.
2. SIGNAL POLE MOUNTED STREET LIGHTING LUMINAIRES MUST BE TIED INTO THE INTERNALLY ILLUMINATED STREET NAME SIGNS PHOTOCELL IN THE CABINET.
3. INSTALL NEW 6-FEET ARM AND 106 WATT, TYPE IV LUMINAIRE AT 30-FEET MOUNTING HEIGHT, BASIS OF DESIGN WAS ERL1-101-D5-30-D FIXTURE.

POLES / PEDS / CONTROLLER:

1. DUE TO THE CLOSE PROXIMITY OF UNDERGROUND UTILITIES, HAND DIG THE FIRST FOUR (4) FEET OF ANY POLE / PEDESTAL FOUNDATION.
2. THE CABINET DOOR MUST OPEN AWAY FROM THE INTERSECTION.
3. RELOCATE CELLULAR MODEM FROM EXISTING CONTROLLER CABINET TO NEW CABINET.












CONDUIT / PULL BOXES / DETECTION SYSTEM:

1. ADJUST CONDUITS VERTICALLY TO AVOID CONFLICT WITH UNDERGROUND UTILITIES.

POWER SERVICE:

1. USE ANTI - CORROSIVE PASTE ON ALL ELECTRIC SERVICE CONNECTIONS.
2. PROVIDE 120/240V, 60A MINIMUM SERVICE ENTRANCE RATED NEMA 3R MAIN SERVICE PANEL BOARDS WITH 60A MAIN BREAKER AND SPACE FOR AT LEAST 12 SINGLE POLE BREAKER.

LEGEND



PULL BOX

FIBER OPTIC PULL BOX

TRAFFIC SIGNAL CABINET

DETECTION ZONE

CCTV CAMERA

LIGHT FIXTURE

VIDEO DETECTOR SYMBOL

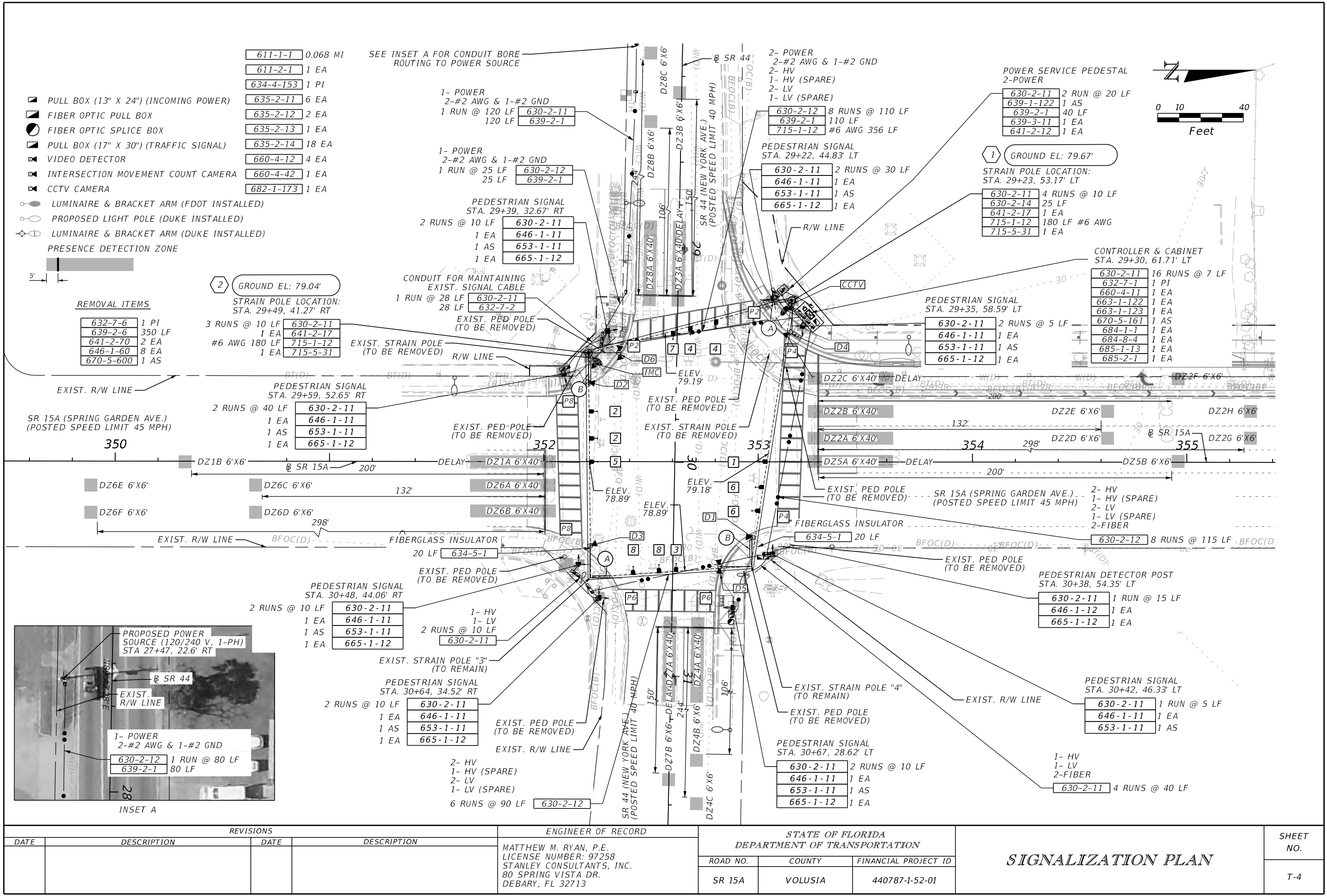
EXISTING INTERSECTION MOVEMENT COUNT CAMERA

OPEN TRENCH CONDUIT

DIRECTIONAL BORE CONDUIT

PEDESTRIAN PUSH BUTTON LOCATION

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	MATTHEW M. RYAN, P.E. LICENSE NUMBER: 97258 STANLEY CONSULTANTS, INC. 80 SPRING VISTA DR. DEBARY, FL 32713	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		T-3
					SR 15A	VOLUSIA	440787-1-52-01		

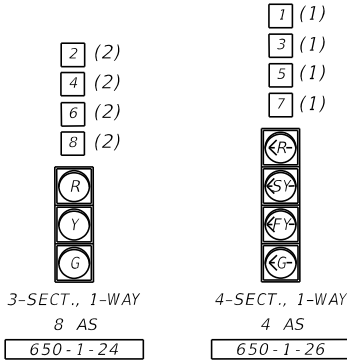


THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

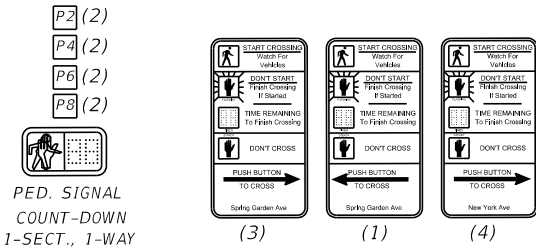
NOTES:

1. THE MAJOR STREET IS SR 15A (SPRING GARDEN AVE) (POSTED SPEED LIMIT 45 MPH).
THE MINOR STREET IS SR 44 (NEW YORK AVE W) (POSTED SPEED LIMIT 40 MPH).
2. WHEN SIGNAL IS IN FLASHING MODE, ALL VEHICULAR MOVEMENTS WILL FLASH RED.
3. PROGRAM 2.0 SECONDS OF START-UP DELAY FOR FLASHING YELLOW ARROW OPERATION.
4. MOVEMENT 1 MUST DISPLAY RED WHEN P2 IS ACTIVATED.
MOVEMENT 3 MUST DISPLAY RED WHEN P4 IS ACTIVATED.
MOVEMENT 5 MUST DISPLAY RED WHEN P6 IS ACTIVATED.
MOVEMENT 7 MUST DISPLAY RED WHEN P8 IS ACTIVATED.
5. PEDESTRIAN PHASES MUST BE PROGRAMMED NOT TO RESERVICE.
6. FLEXIBLE RETRO-REFLECTIVE BACKPLATES MUST BE PROVIDED FOR ALL SIGNAL HEADS.
7. PERMANENT STEEL CASING MUST BE INSTALLED FOR STRAIN POLE 2 TO MAINTAIN INTEGRITY OF EXISTING STRAIN POLE FOUNDATION DURING INSTALLATION OF NEW STRAIN POLE.
THE PERMANENT CASING MUST HAVE A MINIMUM LENGTH OF 16-FT AND MEET SPECIFICATION 455-15.7.
8. STRAIN POLE 3 & 4 REQUIRE WORK WITHIN 10-FEET OF AN OVERHEAD ELECTRIC LINE, WHICH WILL REQUIRE COMPLIANCE WITH OSHA WORKING DISTANCE REQUIREMENTS WHEN INSTALLING NEW CABLING TO THE EXISTING STRAIN POLES IN PROXIMITY TO EXISTING OVERHEAD ELECTRIC. COORDINATE WITH POWER COMPANY DURING CONSTRUCTION TO ENSURE OSHA COMPLIANCE.

TRAFFIC SIGNAL DETAILS:



PEDESTRIAN SIGNAL DETAILS:



0 2 10
Feet

L7-4
2X 2" DBC BT
TOP EL = 76.10'

L7-3
2.5" PVC TC
TOP EL = 77.42'

L7-2
2" DBC BT
TOP EL = 76.51'

L7-1
2X 4.5" PVC BT
TOP EL = 76.73'

PED SIGNAL

PED DETECTOR

STRAIN POLE 2

PED DETECTOR

PED SIGNAL

P2

P8

START CROSSING
Watch for
vehicles
DON'T START
Push Crossing
If Started
TIME REMAINING
To Walk Crossing
DON'T CROSS
PUSH BUTTON
TO CROSS
New York Ave

Diagram illustrating the layout of the L8 area, showing the bridge deck, pedestrian signal, strain pole, and various utility lines. The diagram includes labels for:

- L13, NO UTILITY FOUND
- L12, NO UTILITY FOUND
- L8, NORTHEAST AREA CLEAR NO UTILITY FOUND MOVED FOR CONC. SLAB
- L8-2, AREA CLEAR
- PED SIGNAL
- PED DETECTOR
- STRAIN POLE 1
- P4

A scale bar indicates 0 to 10 feet. A legend in the top left corner defines symbols for:

- START CLOSING
- DON'T CROSS
- TIME REMAINING TO CROSS

Plan view of the intersection of Highway 101 and Highway 101B, showing proposed and existing traffic signals, pedestrian crossings, and utility structures. The diagram includes labels for various components:

- L26, NO UTILITY FOUND
- PED SIGNAL
- L18-1, 2.5" PVC BE (TC) TOP EL = 76.6'
- L18-3, 2 X 4.5" PVC BT TOP EL = 76.2'
- L18-2, 2 X 2.5" PVC BE (TC) TOP EL = 77.1'
- PED DETECTOR
- STRAIN POLE 3
- L19, 2.5" PVC BE (TC) TOP EL = 77.3'
- PED SIGNAL
- P6

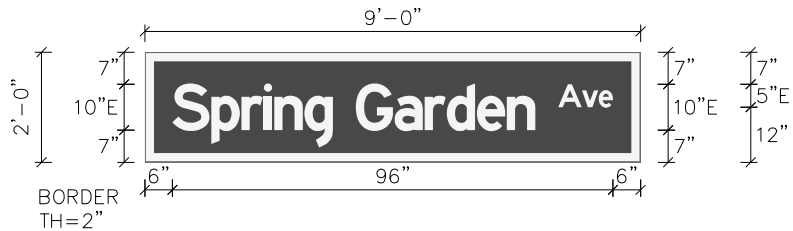
The diagram also shows existing traffic signals (SD, SD, SD) and proposed traffic signals (SD, SD, SD). A north arrow and a scale bar (0 to 10 feet) are provided. A legend box in the top right corner defines symbols for traffic signals, pedestrian crossings, and utility structures.

The diagram illustrates the layout of a pedestrian crossing at an intersection. Key components and labels include:

- PED DETECTOR**: Two locations are marked with black triangles and labeled.
- PED SIGNAL**: Two locations are marked with black squares and labeled.
- STRAIN POLE 4**: A pole is marked with a black square and labeled.
- P4**: A rectangular sign is labeled.
- L16, NO UTILITY FOUND**: A rectangular sign is labeled.
- L17, NO UTILITY FOUND**: A rectangular sign is labeled.
- P6**: A rectangular sign is labeled.
- TRAFFIC SIGN DETAILS**: Two inset boxes show details of traffic signs. The top one shows a 'PUSH BUTTON TO CROSS' sign with a 'DO NOT CROSS' symbol. The bottom one shows a 'PUSH BUTTON TO CROSS' sign with a 'DO NOT CROSS' symbol and a 'PUSH BUTTON TO CROSS' symbol.
- North Arrow**: A north arrow pointing towards the top right.
- Scale Bar**: A scale bar from 0 to 10 feet.
- Grid Lines**: Dashed lines labeled with coordinates like W(D), W(L), W(B), and BFOC(B).

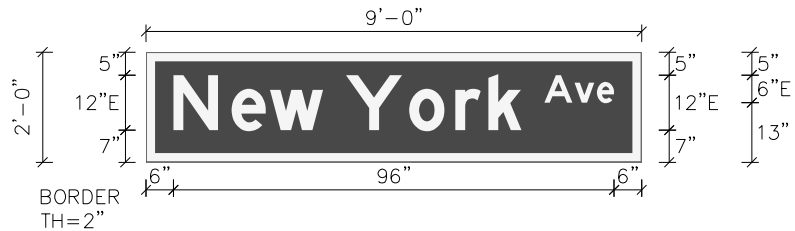
REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNALIZATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	MATTHEW M. RYAN, P.E. LICENSE NUMBER: 97258 STANLEY CONSULTANTS, INC. 80 SPRING VISTA DR. DEBARY, FL 32713	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		T-6
					SR 15A	VOLUSIA	440787-1-52-01		

SIGN NAME		A		QTY	2	SIGN NUMBER		STATION(S)	
PANEL		BORDER				none			
WIDTH	9'-0"	WIDTH	2'						
HEIGHT	2'-0"	RADII	0"						
LEGEND	White	COLOR	White						
COLOR	Green								
SYMBOL(S)	ANGLE	X	Y	WID	HT				
SIGN NUMBER		CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH				



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
-----------------------	-----------------	-------------------	------	---------

SIGN NAME		B		QTY	2	SIGN NUMBER		STATION(S)	
PANEL		BORDER				none			
WIDTH	9'-0"	WIDTH	2'						
HEIGHT	2'-0"	RADII	0"						
LEGEND	White	COLOR	White						
COLOR	Green								
SYMBOL(S)	ANGLE	X	Y	WID	HT				
SIGN NUMBER		CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH				



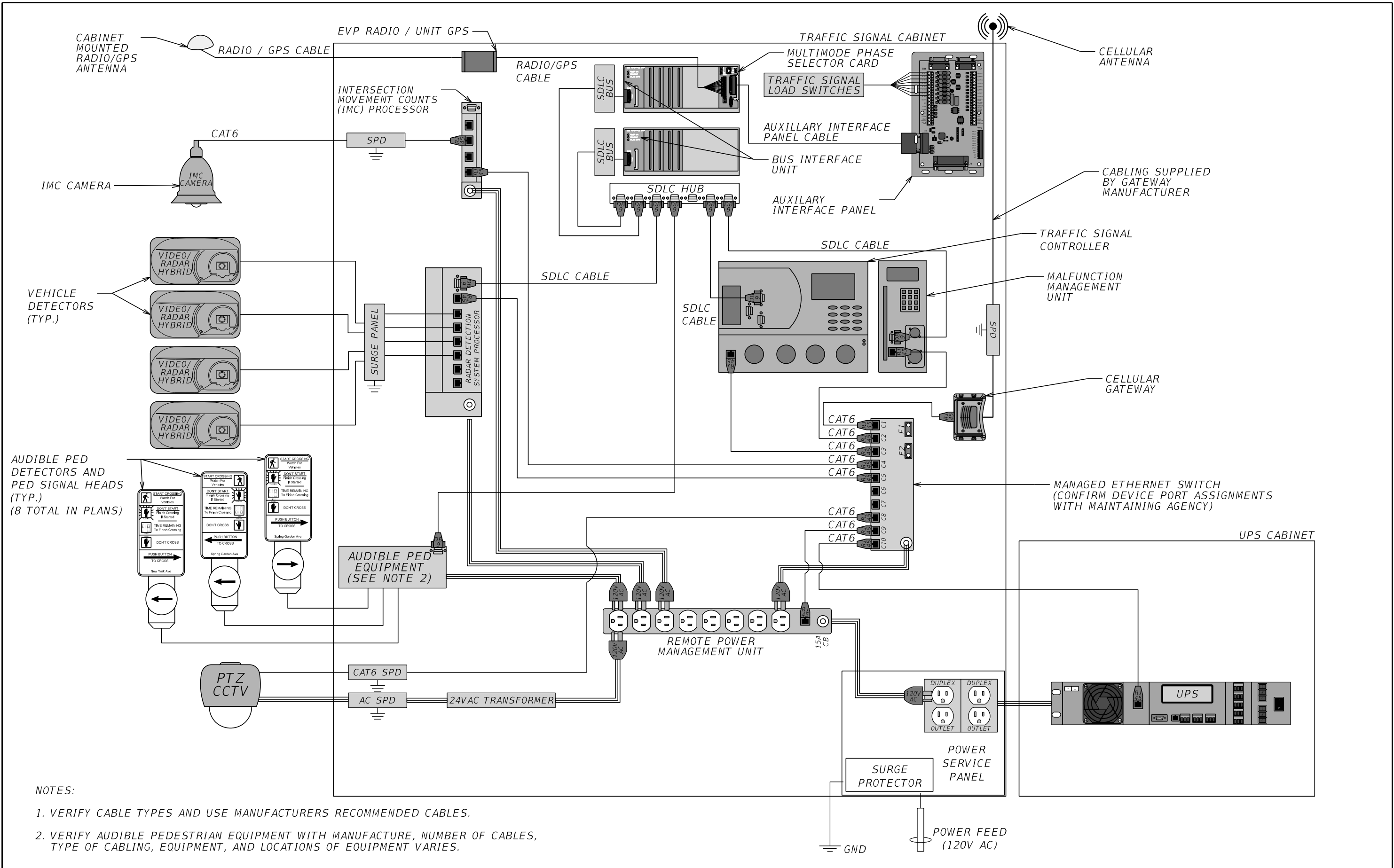
NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
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COPY		S	p	r	l	n	g		G	a	r	d	e	n		A	v	e		L								
SPACE	6	8.5	6.58	4.88	2.25	6.55	6.2	5	8.48	6.53	4.8	6.58	6.53	6.2	5	5.18	3.65	3.1	6	96								
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SPACE																												
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COPY		N	e	w		Y	o	r	k		A	v	e		L												
SPACE	6	12.68	8.37	11.52	5	13.8	10.01	7.23	7.2	5	6.59	4.88	3.72	6	96												
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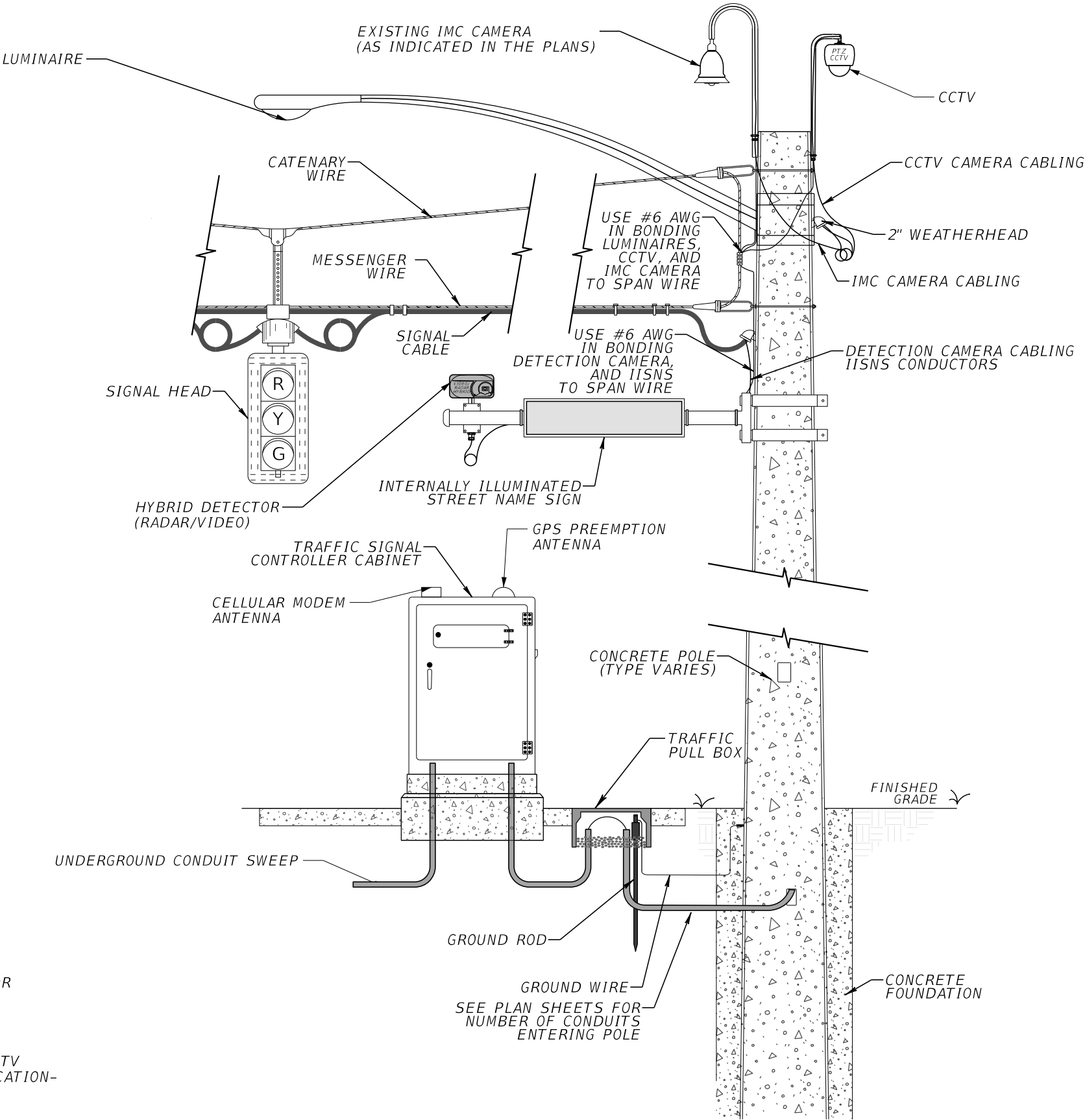
REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			GUIDE SIGN WORK SHEET		SHEET NO.
DATE	DESCRIPTION		DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			T-7
						SR 15A	VOLUSIA	440787-1-52-01			

MATTHEW M. RYAN, P.E.
LICENSE NUMBER: 97258
STANLEY CONSULTANTS, INC.
80 SPRING VISTA DR
DEBARY, FL 32713



REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	MATTHEW M. RYAN, P.E. LICENSE NUMBER: 97258 STANLEY CONSULTANTS, INC. 80 SPRING VISTA DR. DEBARY, FL 32713		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
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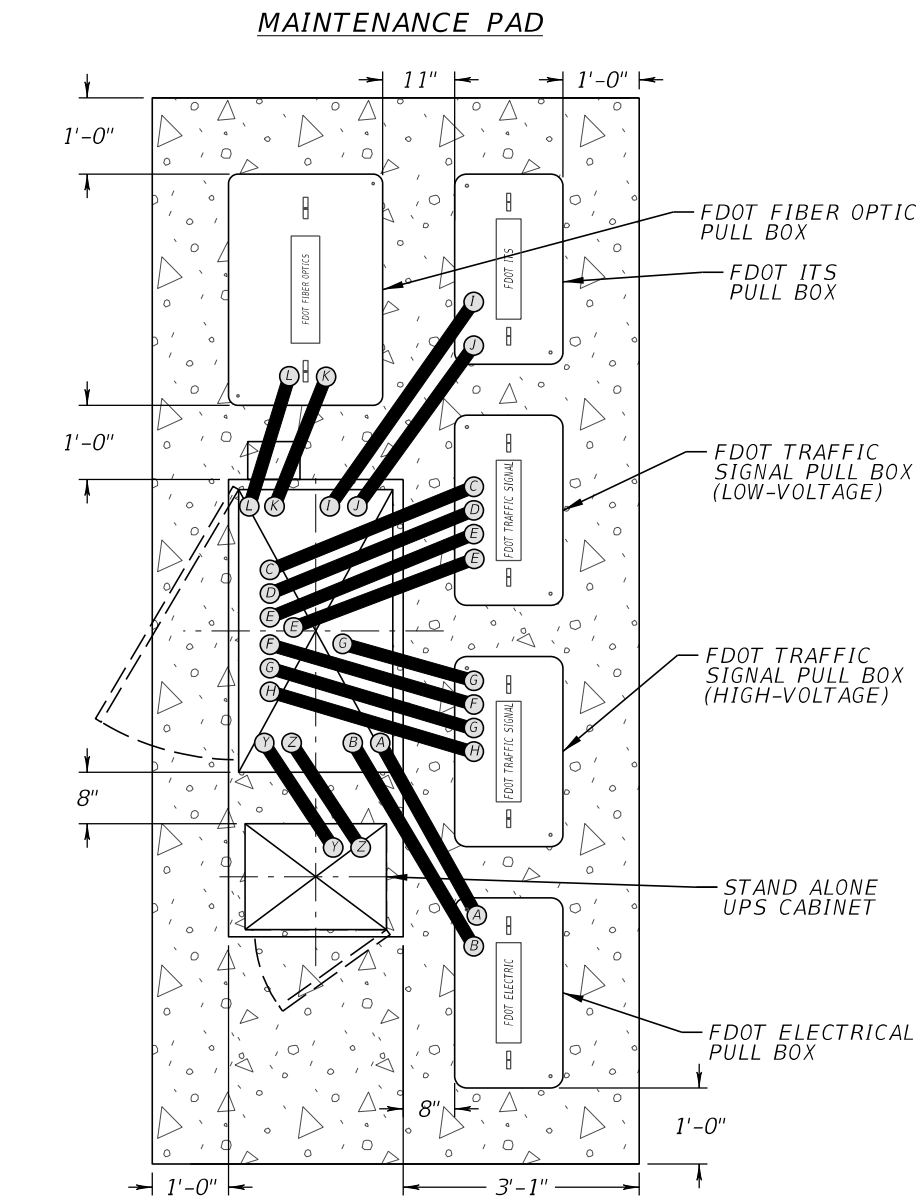
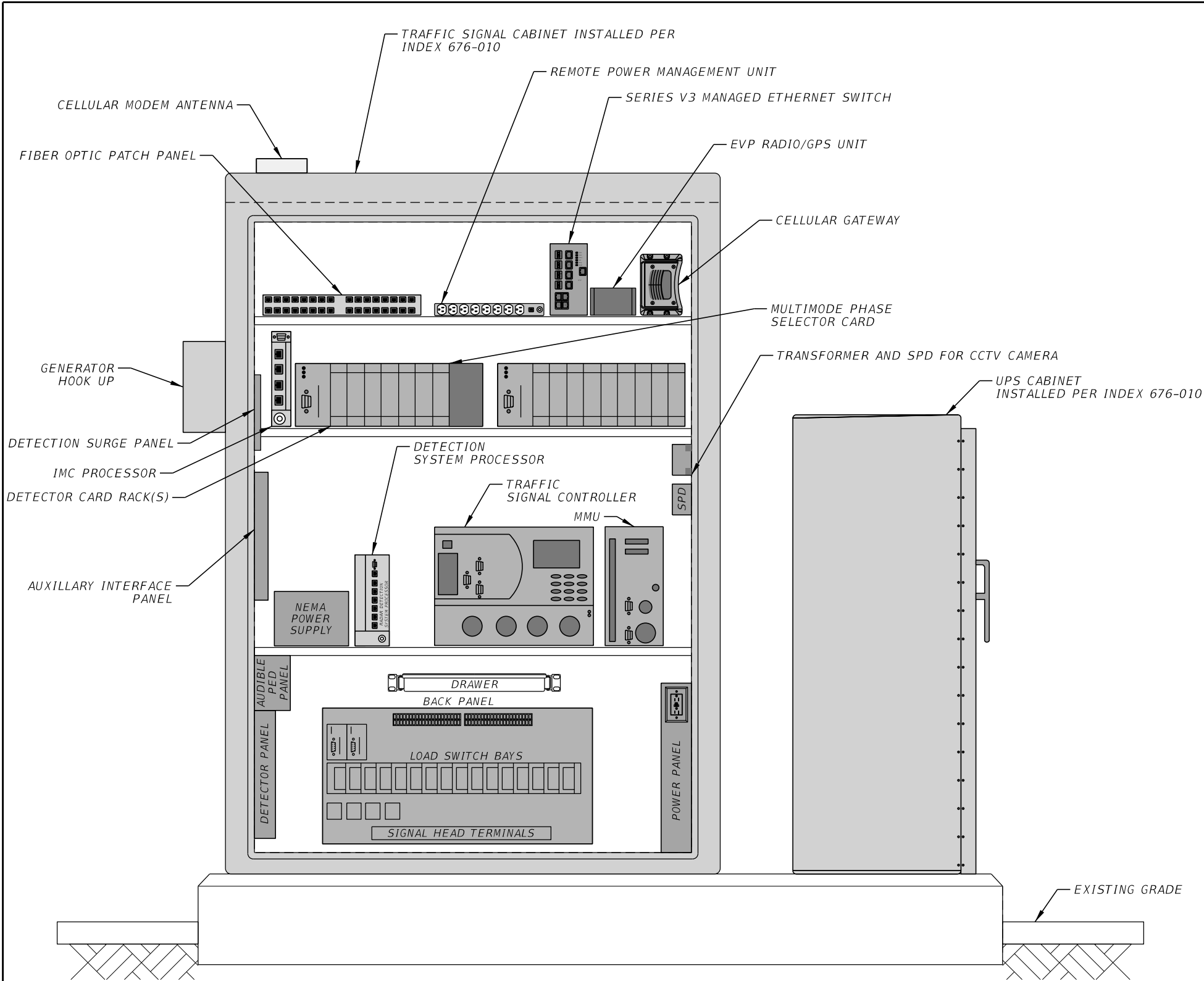
STRAIN POLE MOUNTING DETAIL



- NOTES:
- ADHERE TO MANUFACTURER'S RECOMMENDATIONS FOR VEHICLE DETECTOR MOUNTING HEIGHT, MOUNTING POSITION, MOUNTING HARDWARE, AND INSTALLATION PROCEDURES.
 - NUMBER AND TYPE OF ATTACHMENTS VARY PER POLE. THIS DETAIL IS MEANT TO PROVIDE GENERAL GUIDANCE FOR DETECTION SYSTEM AND CCTV CAMERA ATTACHMENTS. REFER TO SIGNALIZATION PLAN SHEETS FOR LOCATION-SPECIFIC CONFIGURATIONS.

NTS

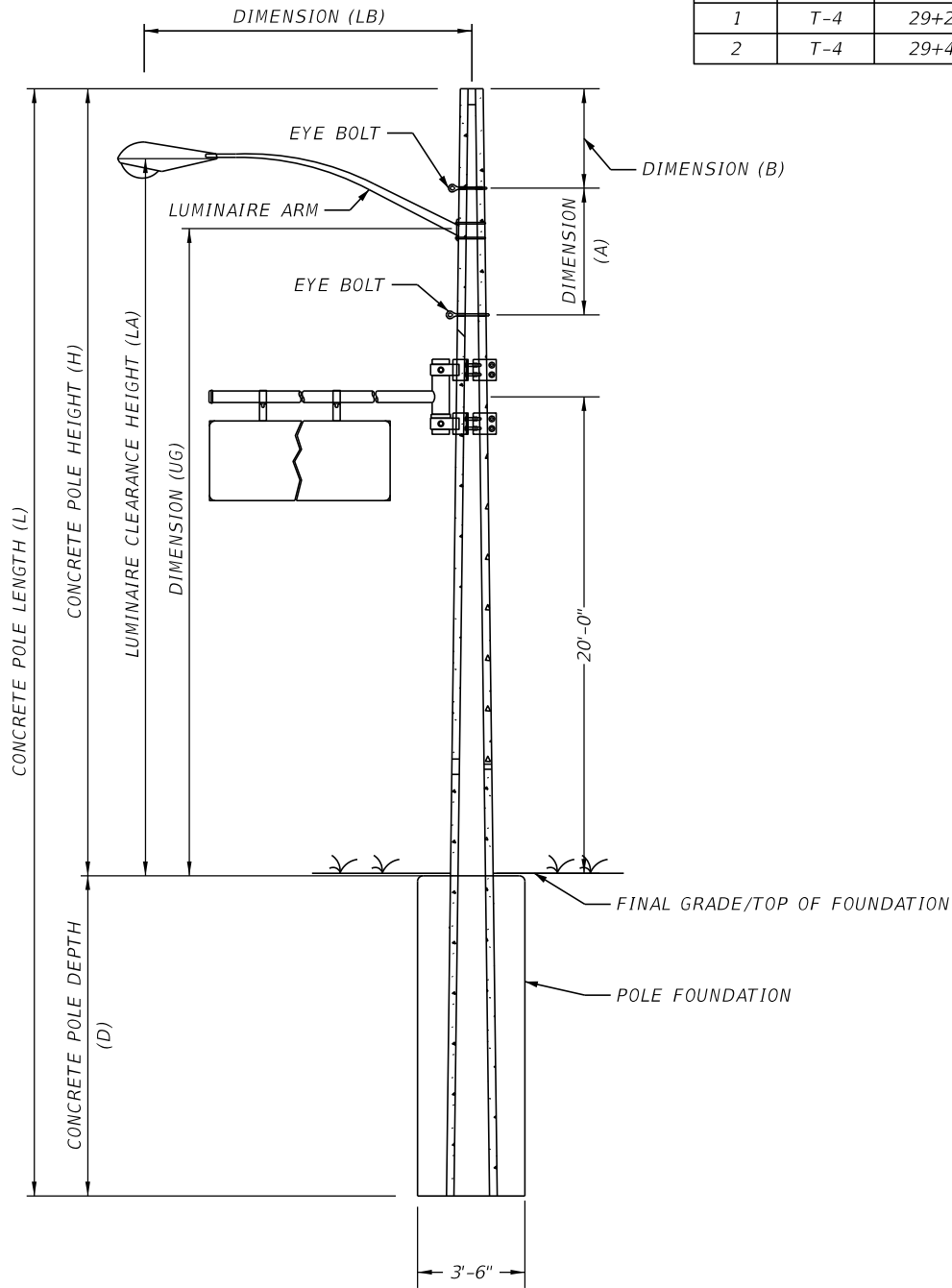
REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				MATTHEW M. RYAN, P.E. LICENSE NUMBER: 97258 STANLEY CONSULTANTS, INC. 80 SPRING VISTA DR. DEBARY, FL 32713	SR 15A	VOLUSIA	440787-1-52-01	T-9



ID	CONDUIT SIZE	CONDUIT UTILIZATION
A	2"	ELECTRICAL SERVICE WIRE (HIGH - VOLTAGE)
B	1"	GROUND WIRE
C	2"	DETECTION SIGNAL (LOW-VOLTAGE)
D	2"	DETECTION SIGNAL (LOW-VOLTAGE)
E	2"	SPARE DETECTION SIGNAL (LOW-VOLTAGE)
F	2"	SIGNAL (HIGH-VOLTAGE)
G	2"	SPARE SIGNAL (HIGH-VOLTAGE)
H	2"	INTERNALLY ILLUMINATED STREET NAME SIGN (HIGH-VOLTAGE)
I	2"	ITS DEVICE (LOW-VOLTAGE)
J	2"	SPARE ITS DEVICE (LOW-VOLTAGE)
K	2"	FIBER OPTIC COMMUNICATIONS
L	2"	SPARE FIBER OPTIC COMMUNICATIONS
Y	2"	UPS COMMUNICATION (LOW-VOLTAGE)
Z	2"	UPS SERVICE WIRE (HIGH-VOLTAGE)

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CABINET DETAIL	SHEET NO.	
DATE	DESCRIPTION	DATE	DESCRIPTION	MATTHEW M. RYAN, P.E. LICENSE NUMBER: 97258 STANLEY CONSULTANTS, INC. 80 SPRING VISTA DR. DEBARY, FL 32713	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		T-10	
					SR 15A	VOLUSIA	440787-1-52-01			

STRAIN POLE SCHEDULE														
ID NO.	SHEET NO.	STATION (BL SR 44)	OFFSET (BL SR 44)	FINAL GRADE ELEVATION	CROWN ELEVATION	POLE TYPE	POLE LENGTH (L)	POLE HEIGHT (H)	DIMENSION (A)	DIMENSION (B)	DIMENSION (LA)	DIMENSION (LB)	DIMENSION (UG)	POLE DEPTH (D)
1	T-4	29+23	53.17' LT	79.67	79.19	P-VII	49.00'	32.30'	8.00'	1.00'	30.00	10.00	27.00	16.70'
2	T-4	29+49	41.27' RT	79.04	78.89	P-VII	49.00'	33.00'	8.00'	1.00'	30.00	10.00	27.00	16.00'



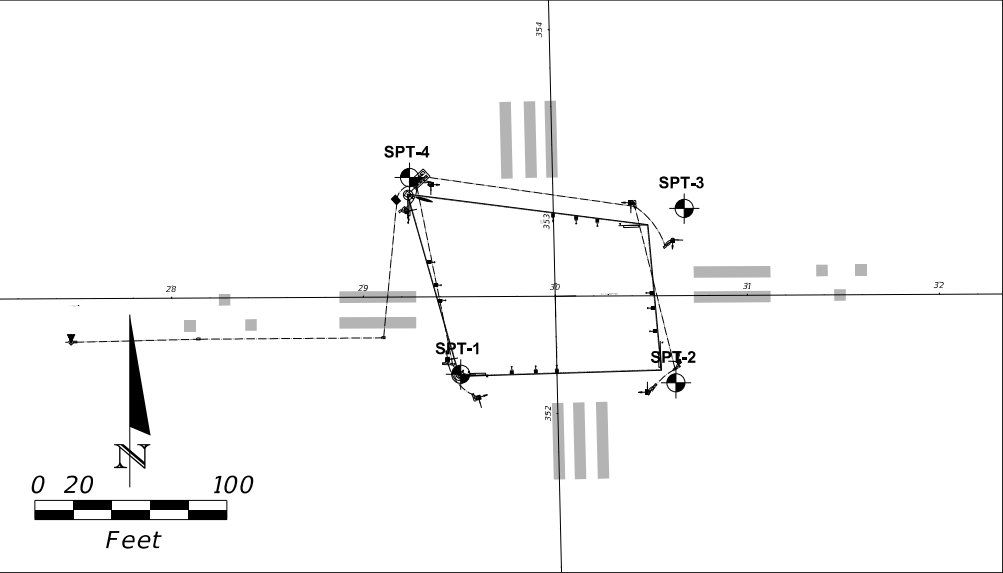
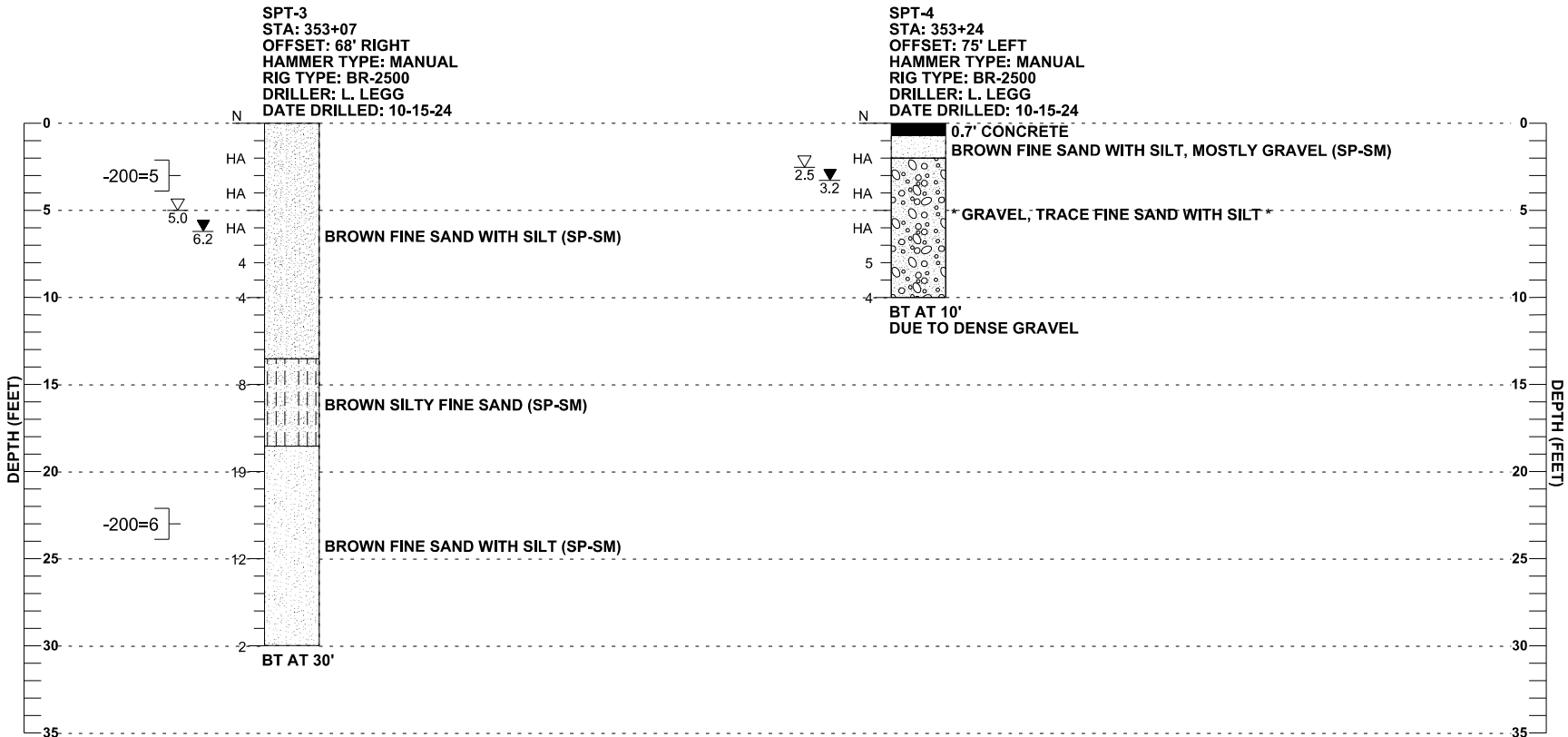
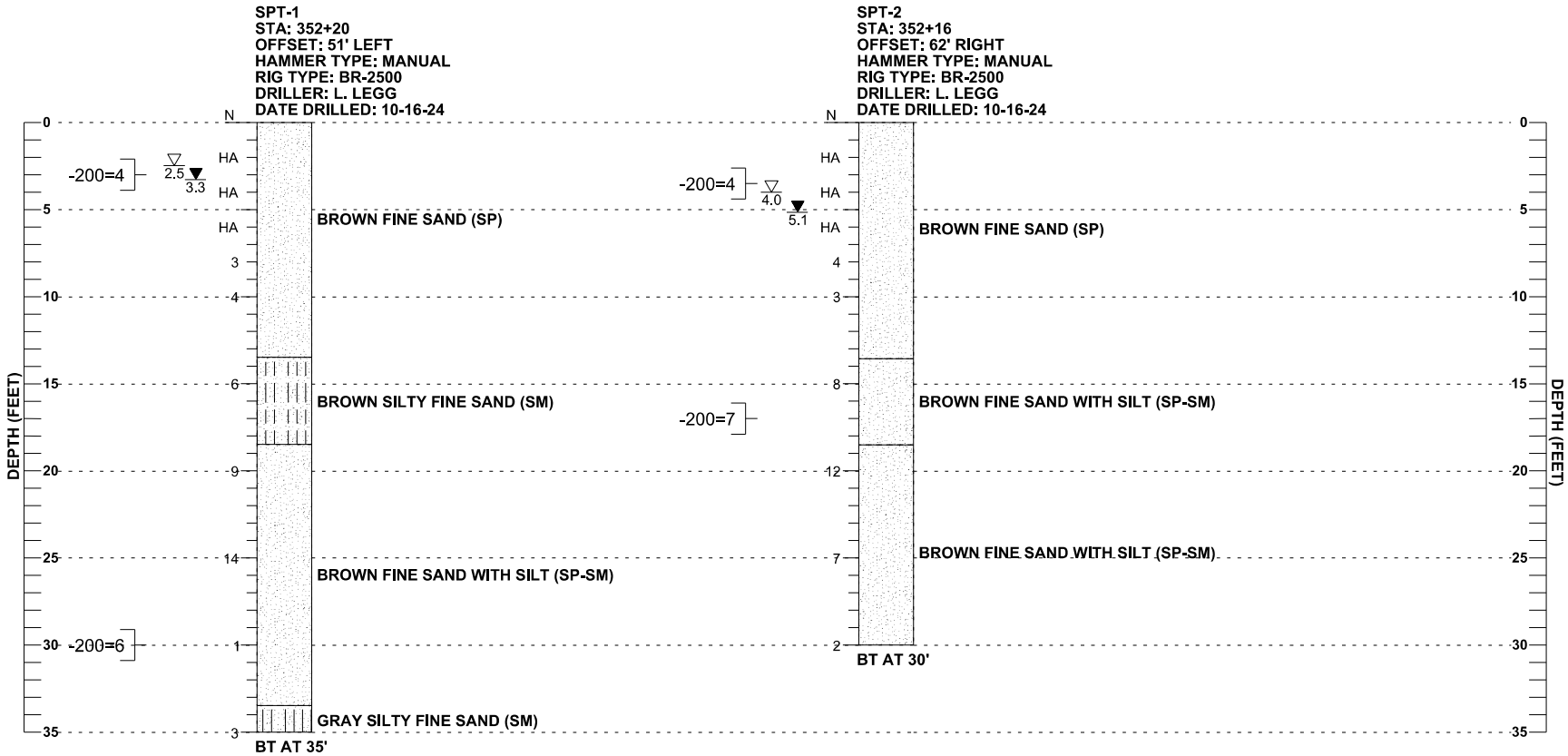
NOTES:

- WORK THIS SHEET WITH INDEX 641-010.
- DESIGN WIND SPEED = 140 MPH.
- DESIGN SOIL PARAMETERS:
EFFECTIVE SOIL UNIT WEIGHT = 40.0PCF
SOIL FRICTION ANGLE = 29 DEGREES
AVERAGE SPT N-VALUE = 4
- FOUNDATION SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION 641.
- EXISTING SPAN WIRE ASSEMBLY SHALL BE COMPLETELY REPLACED INCLUDING CATENARY WIRES, MESSENGER WIRES, CLAMPS, EYEBOLTS, NUTS, AND WASHERS IN ACCORDANCE WITH INDEX 634-001.
CATENARY WIRES = 1/2" DIAMETER
MESSENGER WIRES = 1/2" DIAMETER

CONCRETE STRAIN POLE DIMENSIONS
P-VII

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			STRAIN POLE SCHEDULE
DATE	DESCRIPTION	DATE	DESCRIPTION	JUAN M. MONCADA, P.E. LICENSE NUMBER: 91075 SPICER BRIDGE CONSULTANTS, INC. 100 E. PINE ST., SUITE 110 ORLANDO, FL 32801	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 15A	VOLUSIA	440787-1-52-01	

JUAN M. MONCADA, P.E.
LICENSE NUMBER: 91075
SPICER BRIDGE CONSULTANTS, INC.
100 E. PINE ST., SUITE 110
ORLANDO, FL 32801



- LEGEND**
- N STANDARD PENETRATION RESISTANCE, BLOWS PER FOOT
 - HA HAND AUGERED FOR UTILITY CLEARANCE
 - 2.5 ESTIMATED SEASONAL HIGH GROUNDWATER DEPTH (FT.)
 - 3.3 ENCOUNTERED GROUNDWATER DEPTH (FT.) 24 HRS. AFTER DATE DRILLED
 - BT BORING TERMINATED AT DEPTH INDICATED
 - 200= PERCENT PASSING NO. 200 U.S. STANDARD SIEVE
 - SAND
 - SAND AND SILT
 - GRAVEL

GENERAL NOTES

SUBSURFACE CONDITIONS SHOWN ON THE BORINGS REPRESENT THE CONDITIONS ENCOUNTERED AT THE BORING LOCATIONS. ACTUAL CONDITIONS BETWEEN THE BORINGS MAY VARY FROM THOSE SHOWN. UNIFIED SOIL CLASSIFICATIONS SHOWN ON THE BORINGS ARE BASED ON VISUAL EXAMINATION AND THE LABORATORY TESTING SHOWN.

STANDARD PENETRATION TEST BORINGS WERE PERFORMED IN ACCORDANCE WITH ASTM D-1586. STANDARD PENETRATION RESISTANCES ARE SHOWN ON THE BORINGS AT THE TEST DEPTHS IN BLOWS PER FOOT UNLESS OTHERWISE NOTED.

THE BORING LOCATIONS WERE ESTABLISHED USING A SUB-METER GPS TRIMBLE UNIT. THE BORING LOCATIONS REFERENCE THE SR 15A CENTERLINE.

ACCORDING TO THE FDEP SEPTEMBER 2021 POTENTIOMETRIC CONTOURS MAP, THE POTENTIOMETRIC SURFACE OF THE FLORIDAN AQUIFER IN THE PROJECT VICINITY IS APPROXIMATELY +20 FEET NAVD88. THE CONTRACTOR SHALL BE PREPARED TO HANDLE ARTESIAN HEAD LEVELS UP TO +20 FEET NAVD88.

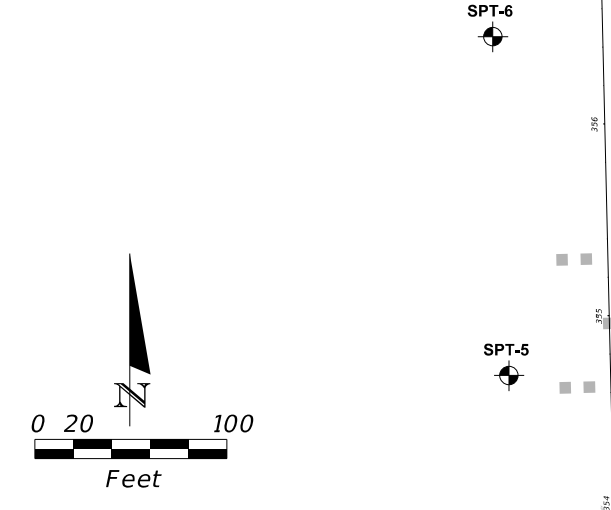
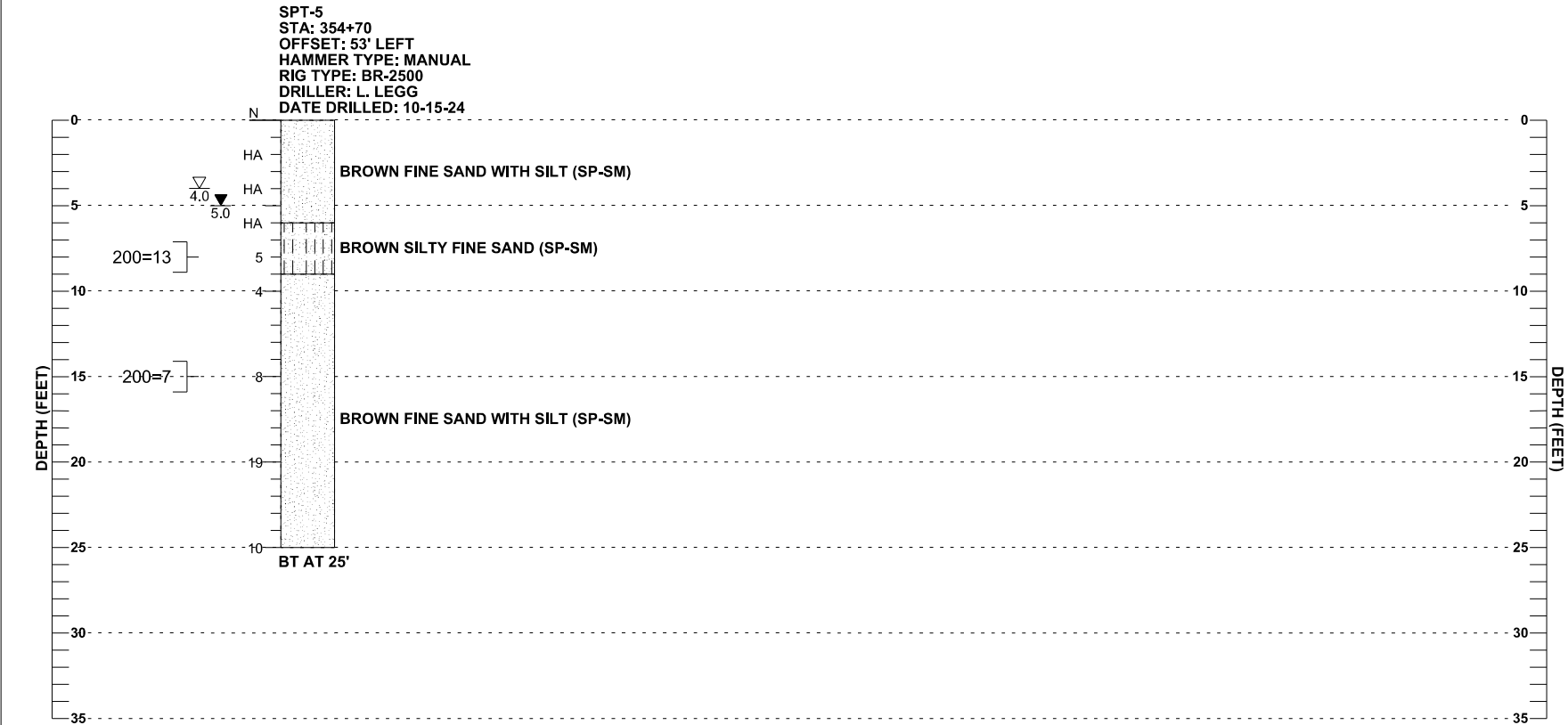
SPLIT SPOON SAMPLER:
INSIDE DIAMETER: 1.375 IN.
OUTSIDE DIAMETER: 2.0 IN.
AVERAGE HAMMER DROP: 30 IN.
HAMMER WEIGHT: 140 LBS.

ENVIRONMENTAL CLASSIFICATION:
SUBSTRUCTURE:
STEEL: SLIGHTLY AGGRESSIVE
CONCRETE: SLIGHTLY AGGRESSIVE

MANUAL HAMMER			
GRANULAR SOILS: SANDS		NON-GRANULAR SOILS: SILTS, CLAYS, MUCK	
N VALUE (BLOWS/FT)	RELATIVE DENSITY	N VALUE (BLOWS/FT)	CONSISTENCY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM DENSE	4-8	FIRM
30-50	DENSE	8-15	STIFF
OVER 50	VERY DENSE	15-30	VERY STIFF
		OVER 30	HARD

SECTION: 7, 8, 17, 18
TOWNSHIP: 17 SOUTH
RANGE: 30 EAST

REVISIONS				ENGINEER OF RECORD CHRISTOPHER P. MEYER, P.E. P.E. LICENSE NUMBER 49328 GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC. 919 LAKE BALDWIN LANE ORLANDO, FL 32814	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			REPORT OF CORE BORINGS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		T-12
					SR 15A	VOLUSIA	440787-1-52-01		



LEGEND

- N STANDARD PENETRATION RESISTANCE, BLOWS PER FOOT
- DCP DYNAMIC CONE PENETROMETER
- HA HAND AUGERED FOR UTILITY CLEARANCE
- 4.0 ESTIMATED SEASONAL HIGH GROUNDWATER DEPTH (FT.)
- 5.0 ENCOUNTERED GROUNDWATER DEPTH (FT.) 24 HRS. AFTER DATE DRILLED
- BT BORING TERMINATED AT DEPTH INDICATED
- 200= PERCENT PASSING NO. 200 U.S. STANDARD SIEVE
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THE DYNAMIC CONE PENETROMETER (DCP) TEST BORING SPT-6 WAS PERFORMED IN GENERAL ACCORDANCE WITH "DYNAMIC CONE FOR SHALLOW IN-SITU PENETRATION TESTING, VANE SHEAR AND CONE PENETRATION TESTING OF IN-SITU SOILS", ASTM STP 399, 1966.

THE "N" VALUES SHOWN FOR THE DCP TEST BORING REPRESENT APPROXIMATE STANDARD PENETRATION RESISTANCE, BLOWS PER FOOT CORRELATED FROM MEASURED DCP RESISTANCE, BLOWS PER 1.75 INCHES OF PENETRATION. THE CORRELATION OF DCP TO SPT "N" VALUES IS BASED ON THE CALIBRATION CURVE FOR COASTAL PLAINS SOILS, ASTM SPT 399, 1966.

ACCORDING TO THE FDEP SEPTEMBER 2021 POTENTIOMETRIC CONTOURS MAP, THE POTENTIOMETRIC SURFACE OF THE FLORIDAN AQUIFER IN THE PROJECT VICINITY IS APPROXIMATELY +20 FEET NAVD88. THE CONTRACTOR SHALL BE PREPARED TO HANDLE ARTESIAN HEAD LEVELS UP TO +20 FEET NAVD88.

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INSIDE DIAMETER: 1.375 IN.
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HAMMER WEIGHT: 140 LBS.

ENVIRONMENTAL CLASSIFICATION:
SUBSTRUCTURE:
STEEL: MODERATELY AGGRESSIVE
CONCRETE: SLIGHTLY AGGRESSIVE

MANUAL HAMMER			
GRANULAR SOILS: SANDS		NON-GRANULAR SOILS: SILTS, CLAYS, MUCK	
N VALUE (BLOWS/FT)	RELATIVE DENSITY	N VALUE (BLOWS/FT)	CONSISTENCY
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