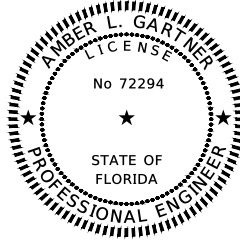


Drawing name: K:\OCA_CAD\4237194-SR_40 at SW 46th_Signal Design\CAD\PlanSheets\2 SIGNATURE SHEET ALT B.dwg I-02 SIGNATURE SHEET Jan 08, 2025 8:47am By: J.L.Cermeno
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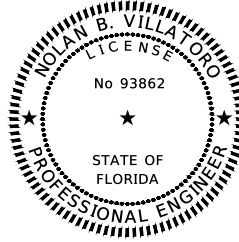
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KIMLEY-HORN AND ASSOCIATES, INC.
 1700 SE 17TH STREET, SUITE 200
 OCALA, FL 34471
 REGISTRY 35106
 AMBER L. GARTNER, P.E. NO. 72294

THE ABOVE NAMED PROFESSIONAL ENGINEER WILL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

SHEET NO.	SHEET DESCRIPTION
T-01	KEY SHEET
T-02	SIGNATURE SHEET
T-03, T-04	GENERAL NOTES & QUANTITIES
T-05	INTERSECTION IMPROVEMENT PLAN
T-06	GRADING PLAN
T-07	TEMPORARY PEDESTRIAN CONTROL
T-08, T-09	SIGNALIZATION PLAN
T-10	IMC DETECTION & MOUNTING DIAGRAM
T-11	SPAN TABULATION
T-13	DETECTOR CHART
T-14	CABINET & WIRING DETAIL
T-15	GUIDESIGN WORKSHEETS
T-16	INTERCONNECT PLAN
L-01	LIGHTING QUANTITIES
L-02	LIGHTING NOTES AND SERVICE POINT DETAILS
L-03	LIGHTING POLE DATA AND LEGEND
L-04	LIGHTING PLAN



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KIMLEY-HORN AND ASSOCIATES, INC.
 189 SOUTH ORANGE AVENUE, SUITE 1000,
 ORLANDO, FL 32801
 REGISTRY 35106
 NOLAN B. VILLATORO, P.E. NO. 93862

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SHEET NO.	SHEET DESCRIPTION
T-02	SIGNATURE SHEET
T-12	STRAIN POLE ASSEMBLIES DATA TABLE

SR 40 AT SW 46TH AVENUE STRAIN POLE SIGNALIZATION PLANS SIGNATURE SHEET	SHEET T-02	CITY OF OCALA OCALA, FLORIDA OFFICE OF THE CITY ENGINEER 1895 NE 30TH AVENUE, BUILDING 060 OCALA, FL 32809 Pinal Area Office OCALA, FL 32809	DRAWN BY: RJA CHECKED BY: RJA REVISIONS: SUPERVISOR: A.L. GARDNER, P.E.	NAME	DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION
						BID PLANS			

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Drawing name: K:\OCAL\CA\142371949-SR 40 AT SW 40th Signal Design\CAD\PlanSheets\3 GENERAL NOTES AND QUANTITIES ALL BIDDING E-04 GENERAL NOTES & QUANTITIES - JAN 08, 2025 1:52pm by: Yalenna
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FDOT PAY ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY
101-1	MOBILIZATION AND SPECIAL PROVISIONS	LS	1
102-1	MAINTENANCE OF TRAFFIC	LS	1
N/A	AS-BUILT PLANS AND CONSTRUCTION LAYOUT SURVEY	LS	1
520-1-10	CONCRETE CURB & GUTTER, TYPE F	LF	161
522-2	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK (FOR CURB RAMPS AND SIDEWALK RECONSTRUCTION)	SF	155
527-2	DETECTABLE WARNINGS	SY	69
611-1-1	ITSFM SUBSURFACE DOCUMENTATION- PROJECT LENGTH	MI	0.179
611-2-1	ITSFM LOCATION DOCUMENTATION- INTERSECTION	EA	1
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	1525
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	210
632-7-1	SIGNAL CABLE- NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	PI	1
633-3-11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA	1
633-3-16	FIBER OPTIC CONNECTION HARDWARE, F&I, PATCH PANEL- FIELD TERMINATED	EA	2
633-6	FIBER OPTIC CABLE LOCATOR	LS	1
634-4-153	SPAN WIRE ASSEMBLY, F&I, TWO POINT, BOX SPAN	PI	1
635-2-11	PULL & SPLICE BOX; FURNISH & INSTALL; 13"x24"	EA	40
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR FROM POWER COMPANY	AS	1
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF	70
639-3-11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA	1
641-2-11	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II PEDESTAL	EA	8
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA	1
641-2-30	PRESTRESSED CONCRETE POLE, INSTALL	EA	4
650-1-24	VEHICULAR TRAFFIC SIGNAL, F&I, POLYCARBONATE W/ALUM TOP, 3 SECTION, 1 WAY	AS	8
650-1-26	VEHICULAR TRAFFIC SIGNAL, F&I POLYCARBONATE W/ALUM TOP, 4 SECTION, 1 WAY	AS	4
653-1-11	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 1 WAY	AS	8
660-1-109	LOOP DETECTOR INDUCTIVE, F&I, TYPE 9	EA	13
660-1-110	LOOP DETECTOR INDUCTIVE, F&I, TYPE 10	EA	1
660-2-102	LOOP ASSEMBLY, F&I, TYPE B	AS	17
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	AS	13
660-6-121	VEHICLE DETECTION SYSTEM-AVI, BLUETOOTH, FURNISH & INSTALL, CABINET EQUIPMENT	EA	1
660-6-122	VEHICLE DETECTION SYSTEM- AVI, BLUETOOTH, FURNISH & INSTALL, ABOVE GROUND EQUIPMENT	EA	1
660-9-11	TRAFFIC DATA DETECTION SYSTEM- VIDEO, FURNISH AND INSTALL, CABINET EQUIPMENT	EA	1
660-9-12	TRAFFIC DATA DETECTION SYSTEM- VIDEO, FURNISH AND INSTALL, ABOVE GROUND EQUIPMENT	EA	2
665-1-11	PEDESTRIAN DETECTOR, FURNISH & INSTALL, STANDARD	EA	8
670-5-300	TRAFFIC CONTROLLER ASSEMBLY, INSTALL	AS	1
682-1-113	ITS CCTV CAMERA, F&I, DOME PTZ ENCLOSURE - PRESSURIZED, IP, HIGH DEFINITION	EA	1
684-1-1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA	1
684-1-10	MANAGED FIELD ETHERNET SWITCH, LAYER 3, FURNISH & INSTALL	EA	1
685-1-11	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, LINE INTERACTIVE	EA	1
685-2-1	REMOTE POWER MANAGEMENT UNIT- RPMU, FURNISH AND INSTALL	EA	1
700-1-600	SINGLE COLUMN GROUND SIGN ASSEMBLY, REMOVE	EA	2
700-2-114	MULTI-COLUMN GROUND SIGN ASSEMBLY, F&I GROUND MOUNT, 30.1-50.0 SF	AS	2
700-3-201	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, UP TO 12 SF	EA	4
700-5-21	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL OVERHEAD MOUNT, UP TO 12 SF	EA	2
700-5-22	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, 12-18 SF	EA	2
706-1-3	RAISED PAVEMENT MARKER, TYPE B	EA	79
710-90	PAINTED PAVEMENT MARKINGS - FINAL SURFACE	LS	1
711-11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK	LF	586
711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE	LF	137
711-11-141	THERMOPLASTIC, STANDARD, WHITE, 6-10 GAP EXTENSION, 6"	GM	0.020
711-11-160	THERMOPLASTIC, STANDARD, WHITE, BICYCLIST SYMBOL	EA	2
711-11-170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA	10
711-11-224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL	LF	87
711-14-125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF	467
711-16-101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	GM	0.148
711-16-201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	GM	0.302
711-17-1	THERMOPLASTIC, REMOVE EXISTING THERMOPLASTIC PAVEMENT MARKINGS- SURFACE TO REMAIN	LS	1

PAY ITEM NOTES

(ALL TRAFFIC EQUIPMENT MUST BE ON THE FDOT APPROVED PRODUCT LIST (APL), AND MUST BE APPROVED BY CITY OF OCALA BEFORE PROCUREMENT)

PAY ITEM NO. 102-1 INCLUDES STRIPING AND RPMS NECESSARY FOR MAINTENANCE OF TRAFFIC APPLICATIONS, AND STRIPING AND RPMS NOT ON FINAL SURFACE. INCLUDES SIGNS, CHANNELIZING DEVICES, AND TEMPORARY SIDEWALK CONSTRUCTION NECESSARY TO IMPLEMENT PEDESTRIAN MAINTENANCE OF TRAFFIC AT THE INTERSECTION.

PAY ITEM NO. 611-1-1 AND 611-2-1 SHALL INCLUDE DOCUMENTATION OF ALL FEATURES WITHIN THE PROJECT AS REQUIRED PER FDOT STANDARD SPECIFICATIONS SECTION 611.

PAY ITEM NOS. 630-2-11, AND 630-2-12 CONDUIT IS TO BE 2" SCH 40 PVC INSTALLED AT A 36" MINIMUM DEPTH. ENSURE THAT THE CONDUIT IS TERMINATED INSIDE OF THE PROPOSED CONTROLLER CABINET.

PAY ITEM NOS. 635-2-11 PULL BOXES AND COVERS SHALL BE NON-METALLIC CONSTRUCTION WITH RECESSED COVER LOGO "TRAFFIC SIGNAL" OR "FIBER OPTIC" AS APPROPRIATE. SHALL INCLUDE CONSTRUCTION OF A 12" WIDE BY 6" DEEP CONCRETE APRON AROUND THE NEW PULL BOX.

PAY ITEM NO 641-2-30 SHALL INCLUDE ALL LABOR AND EQUIPMENT TO INSTALL TYPE P-VIII PRESTRESSED CONCRETE POLES TO BE FURNISHED BY THE CITY OF OCALA. SHALL INCLUDE TRANSPORT BY THE CONTRACTOR OF THE FURNISHED POLES TO THE CONSTRUCTION SITE.

PAY ITEM NOS. 650-1-24, AND 650-1-26 SHALL BE DIALIGHT BRAND XLF OF XOD SERIES WITH TINTED LENSES OR LATER, AND CONFORM TO THE MUTCD AND SECTION 650 OF THE FDOT STANDARD SPECIFICATIONS. SHALL INCLUDE INSTALLATION OF RETROREFLECTIVE BACKPLATES. VEHICULAR SIGNAL DISPLAYS SHALL BE FLAT BLACK IN COLOR.

PAY ITEM NO 653-1-11 PEDESTRIAN SIGNAL HEADS SHALL BE ALUMINUM.

PAY ITEM NOS. 660-6-121 AND 660-6-122 TRAVEL TIME READER SHALL BE ITERIS BLUETOAD SPECTRA RSU-CV2X SYSTEM WITH SHORT ANTENNAE KIT, COMPATIBLE WITH THE CITY'S EXISTING TRAVEL TIME READER SOFTWARE.

PAY ITEM NOS 660-9-11 AND 660-9-12 SHALL INCLUDE ALL WORK NECESSARY TO FURNISH AND INSTALL CAMERAS, MOUNTING ARMS, BRACKETS, WIRING, HARDWARE, AND ALL ANCILLARY COMPONENTS, AS WELL AS ALL DATA AND POWER CABLING REQUIRED FOR A COMPLETE DEPLOYMENT. CAMERAS SHALL BE INSTALLED ON A J-POLE USING AN ALUMINUM EXTENSION ARM ATTACHED TO THE CONCRETE STRAIN POLE. SHALL CONSIST OF ALL LABOR AND MATERIALS NEED TO ACHIEVE VIDEO DETECTION ZONES AS SHOWN IN PLANS. INTERSECTION MOVEMENT COUNT PLATFORM SHALL BE MIOVISION-SMARTSENSE OR AN APPROVED EQUIVALENT LISTED ON THE FDOT APPROVED PRODUCTS LIST.

PAY ITEM NO. 665-1-11 SHALL BE POLARA ENGINEERING BDL3 SERIES PIEZO PUSH BUTTON. CONTRACTOR SHALL CONFIRM THAT A 4'X4' FLAT LANDING AREA IS PRESENT ADJACENT TO THE DETECTOR.

PAY ITEM NO. 670-5-300 SHALL INCLUDE ALL LABOR AND EQUIPMENT TO INSTALL TRAFFIC CONTROLLER ASSEMBLY WITH CABINET TO BE FURNISHED BY THE CITY OF OCALA. SHALL INCLUDE CONSTRUCTION OF THE CONCRETE BASE AND ALL ITEMS REQUIRED FOR INSTALLATION SPECIFIED IN THE CITY OF OCALA STANDARD SPECIFICATIONS FOR CONSTRUCTION, SECTION 34 41 13.

PAY ITEM NO. 682-1-113 CCTV CAMERA SHALL BE AXIS Q6315-LE PTZ DOME CCTV CAMERA. CONTACT THE PUBLIC WORKS TRAFFIC DIVISION (352-351-6733) FOR THE CURRENTLY APPROVED MANUFACTURERS. CAMERA SHALL BE INSTALLED ON A J-POLE AFFIXED TO THE SAME ALUMINUM EXTENSION ARM AS THE IMC CAMERA.

PAY ITEM NO. 684-1-1 SHALL BE ALCATEL OS 6465 SERIES, FL

PAY ITEM NO. 685-1-11 SHALL CONSIST OF AN ALPHA TECHNOLOGIES FXM HP1100 UNINTERRUPTED POWER SUPPLY (UPS) WITH AN ALPHA TECHNOLOGIES SE48-1616 BBS ENCLOSURE AND FOUR (4) ALPHA-CELL 100 XTV 12-VOLT BATTERIES COMPATIBLE WITH THE CITY'S EXISTING UPS/BBS SOFTWARE.

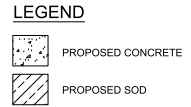
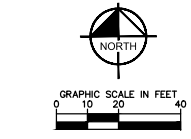
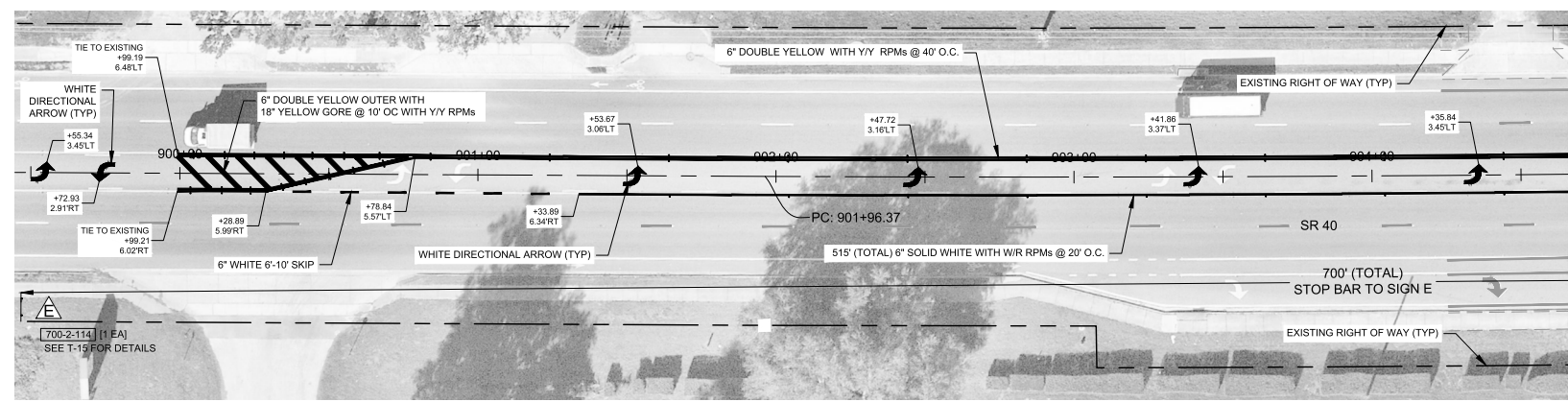
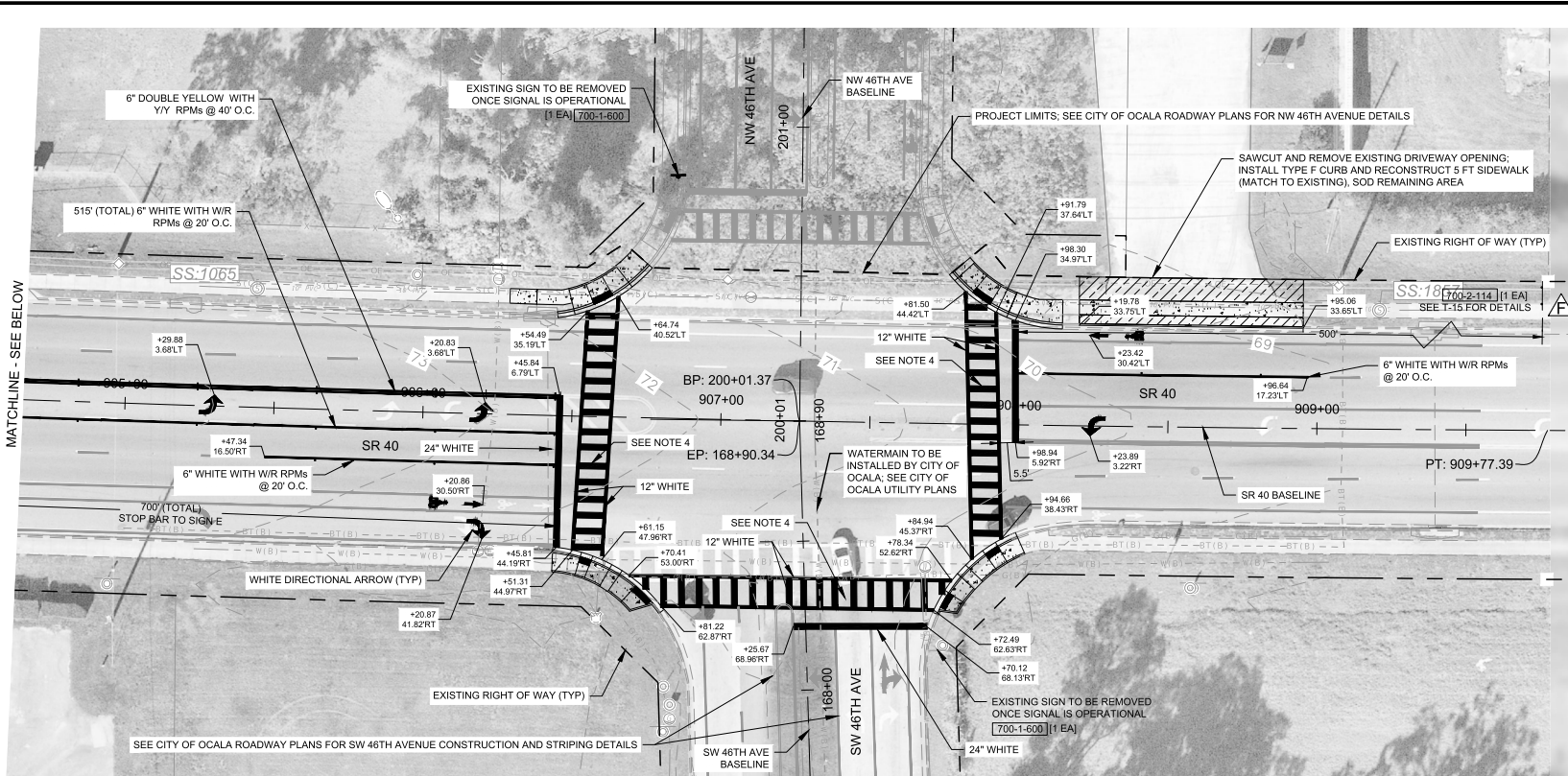
PAY ITEM NOS. 700-5-21 AND 700-5-22 LED STREET NAME SIGNS SHALL BE POWERED FROM A BREAKER LOCATED IN THE ELECTRICAL SIGNAL SERVICE DISCONNECT AND THE PHOTO CELL SHALL ALSO BE INSTALLED ON THE OUTSIDE OF THE ELECTRICAL SIGNAL SERVICE DISCONNECT. SHALL BE TRANSPORTATION CONTROL SYSTEMS FREE SWINGING DUAL FACE LED BRITELITE TCSSIGNBL SERIES.

PAY ITEM NO. 711-17-1 INCLUDES ALL LABOR AND EQUIPMENT TO REMOVE CONFLICTING PAVEMENT MARKINGS WITHIN THE PROJECT AREA. MEANS AND METHODS SHALL BE APPROVED BY THE CITY AND FDOT PRIOR TO WORK TO ENSURE MINIMUM DAMAGE TO THE EXISTING ASPHALT SURFACE.

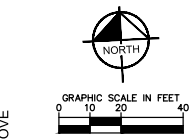
	REVISIONS				
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	NAME	DATE	NAME	DATE	NAME
	DRAWN BY	REVIEWED BY	CHECKED BY	APPROVED BY	SUBMITTAL CAL. LANDING P.
					BID PLANS
CITY OF OCALA OCALA, FLORIDA OFFICE OF THE CITY ENGINEER 1805 NE 30TH AVENUE, ROOM 606 OCALA, FL 32067					
2500 ANDREWS AVENUE, SUITE 100 FORT WORTH, TEXAS 76106 PHONE: 817.335.4400 FAX: 817.335.4401 WWW.KIMLEY-HORN.COM					
SR 40 AT SW 46TH AVENUE STRAIN POLE SIGNALIZATION PLANS GENERAL NOTES & QUANTITIES					
SHEET 1-04					

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Drawing name: K:\CALA_CAD\142371949-SR 40 at SW 46th Signal Design\CAD\PlanSheets\4 INTERSECTION PLAN.dwg T-05 INTERSECTION IMPROVEMENT PLAN Job No. 2025-8-28-000 by: Jyleranna
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- NOTES**
- ALL CONFLICTING PAVEMENT MARKINGS TO BE REMOVED USING FDOT APPROVED METHODS.
 - ALL PAVEMENT MARKINGS TO CONFORM TO FDOT STANDARD INDEX 711-001. ALL RPMs TO CONFORM TO STANDARD INDEX 706-001.
 - ALL STATION AND OFFSET LABELS ARE IN RESPECT TO THE SR 40 ALIGNMENT.
 - ALL WHITE 24\"/>



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SUNSHINE STATE ONE CALL OF FLORIDA, INC.

REVISIONS	DATE	DESCRIPTION

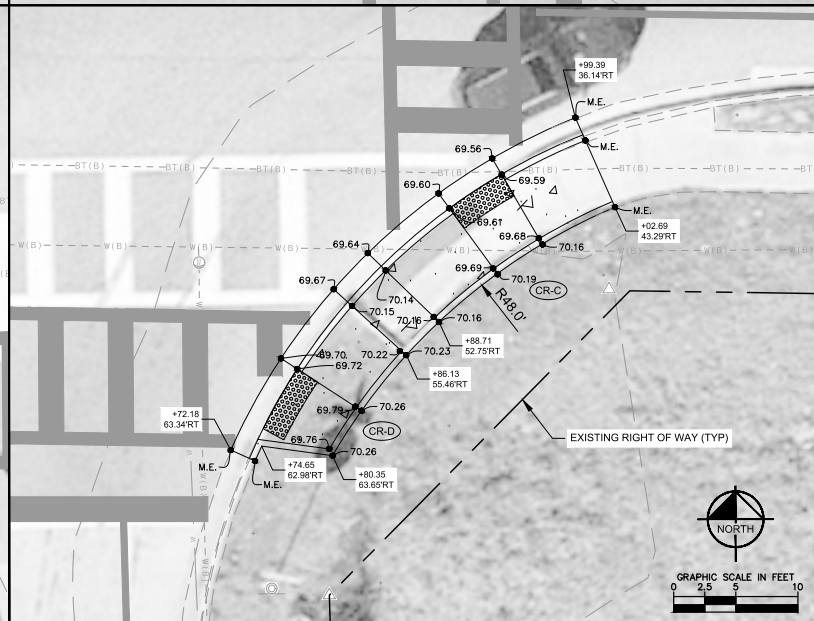
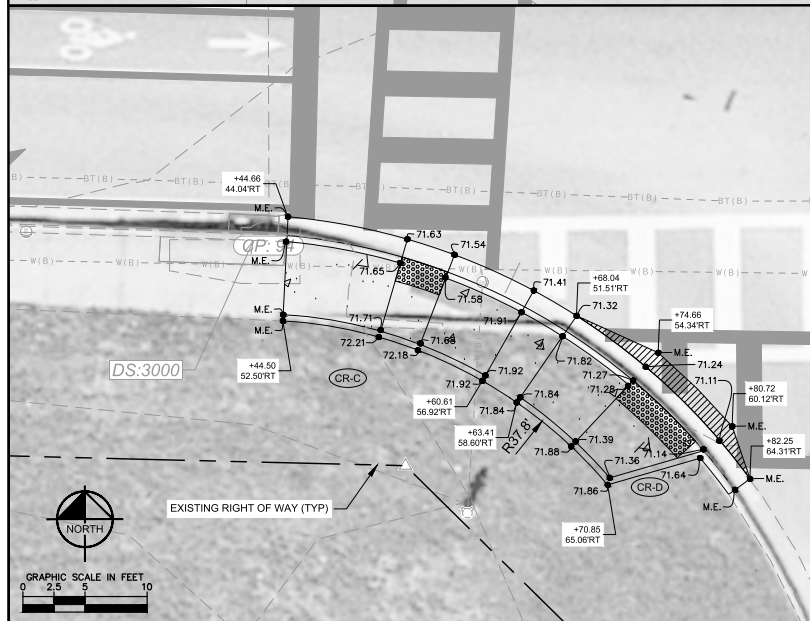
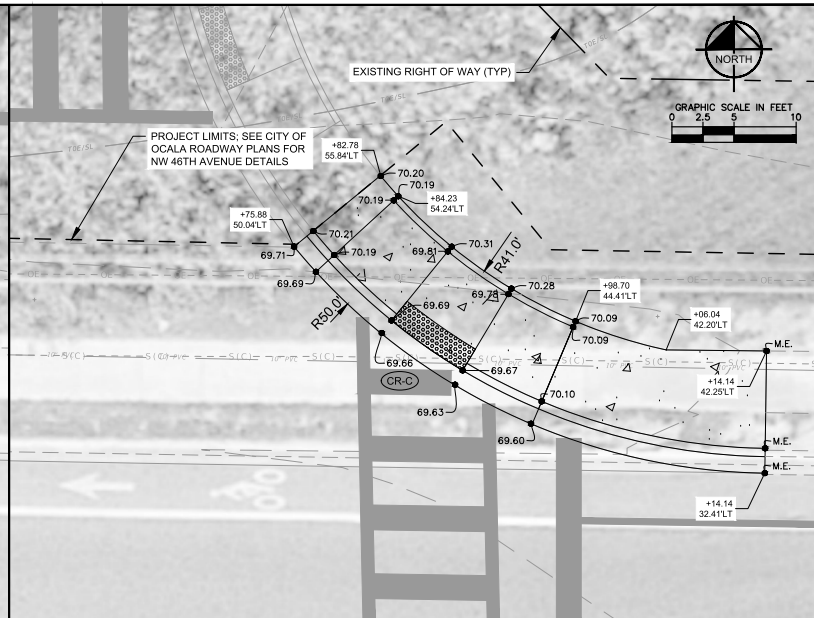
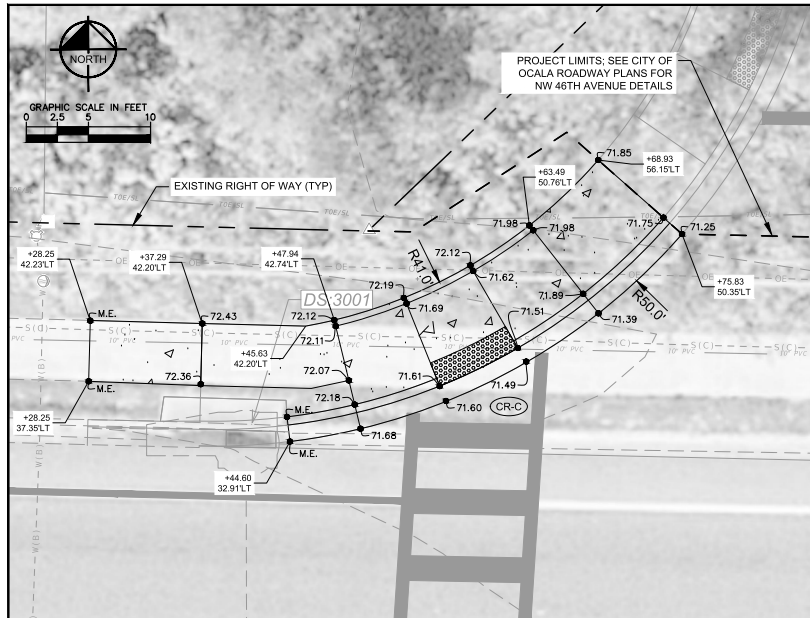
NAME	DATE	BY	DATE	DESCRIPTION
DRAWN				
REVIEWED				

CITY OF OCALA	OCALA, FLORIDA	OFFICE OF THE CITY ENGINEER
1805 NE 30TH AVENUE, BUILDING 060	OCALA, FL 32665	FILED HERE
OCALA	SEAL	

Kimley-Horn
2024 OCALA, FLORIDA
1805 NE 30TH AVENUE, BUILDING 060
OCALA, FL 32665
PROJECT NO. 2025-8-28-000
DATE: 08/28/2025
PROJECT: SR 40 AT SW 46TH AVENUE STRAIN POLE SIGNALIZATION PLANS INTERSECTION IMPROVEMENT PLAN
SHEET T-05

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- LEGEND**
- 100.00 PROPOSED SPOT ELEVATION
 - M.E. MATCH EXISTING ELEVATION
 - AREA OF PAVEMENT RELIEF PER FDOT STANDARD INDEX 522-002
 - INSTALL CURB RAMP PER FDOT STANDARD INDEX 522-002
- NOTES**
1. ALL CURB RAMP SHALL HAVE DETECTABLE WARNING PADS PER FDOT STANDARD INDEX 522-002.

NOTES

1. ALL CURB RAMP SHALL HAVE DETECTABLE WARNING PADS PER FDOT STANDARD INDEX 522-002.

REVISIONS	DATE	DESCRIPTION	BY	DATE	DESCRIPTION

NAME	DATE	DESCRIPTION
DRAWN BY		
REVIEWED BY		
DATE		

CITY OF OCALA	CITY OF OCALA
OCALA, FLORIDA	OCALA, FLORIDA
OFFICE OF THE CITY ENGINEER	OFFICE OF THE CITY ENGINEER
1805 NE 30TH AVENUE, BUILDING 060	1805 NE 30TH AVENUE, BUILDING 060
OCALA, FL 32060	OCALA, FL 32060

Kimley-Horn	Kimley-Horn
2024 ANALYST AND ASSOCIATES, INC.	2024 ANALYST AND ASSOCIATES, INC.
1700 S.W. 10TH AVENUE, SUITE 200	1700 S.W. 10TH AVENUE, SUITE 200
OCALA, FL 32060	OCALA, FL 32060
PHONE: 352.236.3000	PHONE: 352.236.3000
FAX: 352.236.3001	FAX: 352.236.3001

CITY OF OCALA	CITY OF OCALA
OCALA, FLORIDA	OCALA, FLORIDA
OFFICE OF THE CITY ENGINEER	OFFICE OF THE CITY ENGINEER
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SR 40 AT SW 46TH AVENUE STRAIN POLE SIGNALIZATION PLANS GRADING PLAN	SR 40 AT SW 46TH AVENUE STRAIN POLE SIGNALIZATION PLANS GRADING PLAN
SHEET T-06	SHEET T-06

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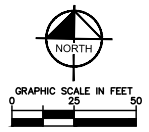
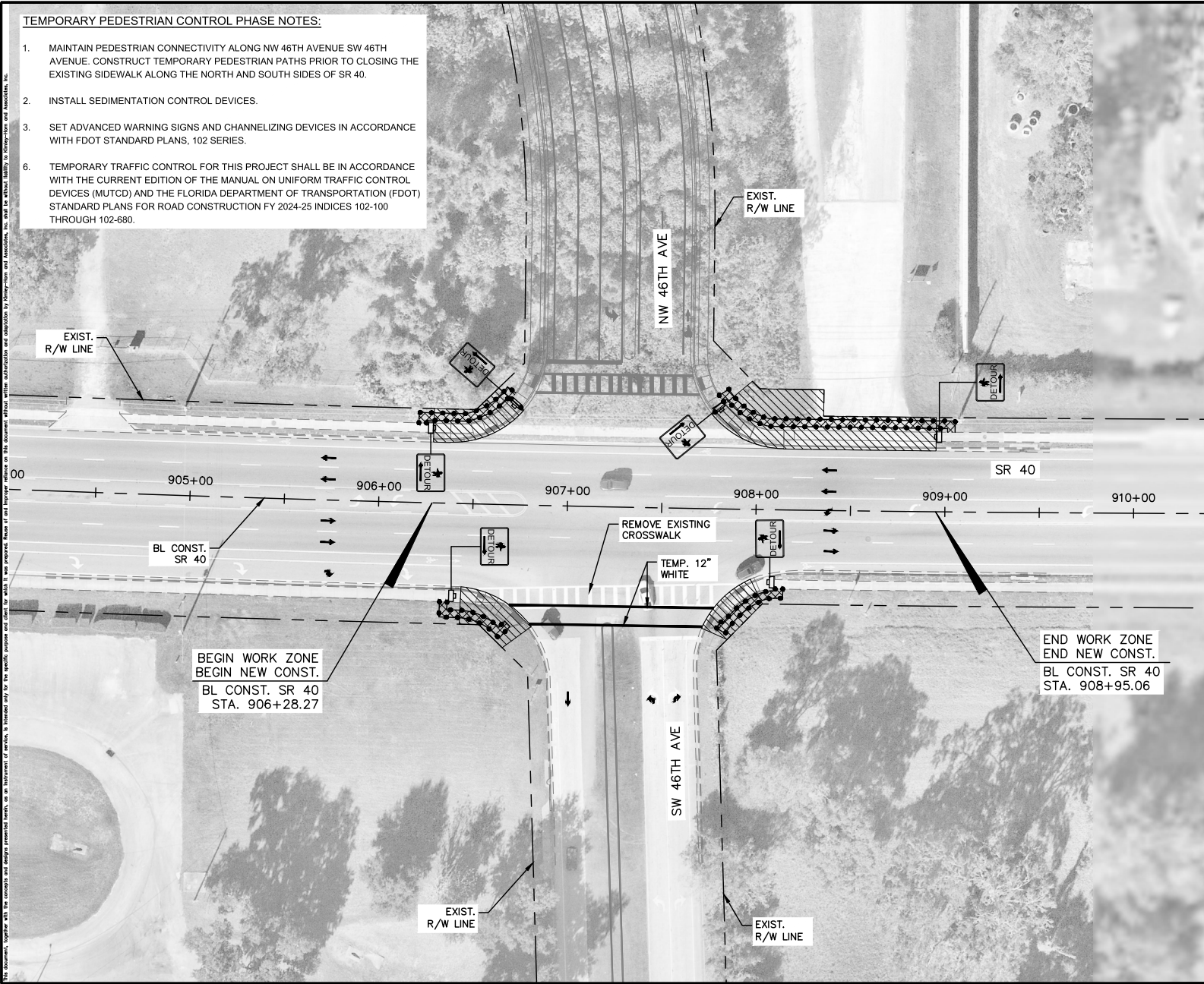
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

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Drawing name: K:\OCA_CAD\142371949-SR 40 at SW 46th Signal Design\CAD\PlanSheets\42 T-07 TEMPORARY PEDESTRIAN CONTROL Job: 08, 2025 8:59am by: Tylenna
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TEMPORARY PEDESTRIAN CONTROL PHASE NOTES:

1. MAINTAIN PEDESTRIAN CONNECTIVITY ALONG NW 46TH AVENUE SW 46TH AVENUE. CONSTRUCT TEMPORARY PEDESTRIAN PATHS PRIOR TO CLOSING THE EXISTING SIDEWALK ALONG THE NORTH AND SOUTH SIDES OF SR 40.
2. INSTALL SEDIMENTATION CONTROL DEVICES.
3. SET ADVANCED WARNING SIGNS AND CHANNELIZING DEVICES IN ACCORDANCE WITH FDOT STANDARD PLANS, 102 SERIES.
6. TEMPORARY TRAFFIC CONTROL FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD PLANS FOR ROAD CONSTRUCTION FY 2024-25 INDICES 102-100 THROUGH 102-680.



- LEGEND:**
- WORK ZONE
 - TEMPORARY PAVEMENT
 - PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICE (LCD)
 - WORK ZONE SIGN
 - DIRECTION OF TRAFFIC

BEGIN WORK ZONE
 BEGIN NEW CONST.
 BL CONST. SR 40
 STA. 906+28.27

END WORK ZONE
 END NEW CONST.
 BL CONST. SR 40
 STA. 908+95.06

NOTE: THIS IS A CONCEPT ONLY. CONTRACTOR IS RESPONSIBLE FOR PREPARING A DETAILED TEMPORARY TRAFFIC CONTROL PLAN.

SIGN NOTE: EXISTING SIGNS TO REMAIN UNLESS IN CONFLICT WITH PEDESTRIAN CONTROL PLAN. IF A CONFLICT EXISTS, THE SIGN SHALL BE REMOVED AND/OR COVERED UNTIL THE CONFLICT NO LONGER EXISTS.

REVISIONS		DATE	NAME	DATE	DESCRIPTION

DRAWN BY: RHA	REVISIONS BY: RHA	DATE: RHA
SUPERVISOR: A.L. GARDNER, P.E.		

CITY OF OCALA OCALA, FLORIDA OFFICE OF THE CITY ENGINEER 1805 NE 30TH AVE, BLDG 060 OCALA, FL 34470	BID PLANS
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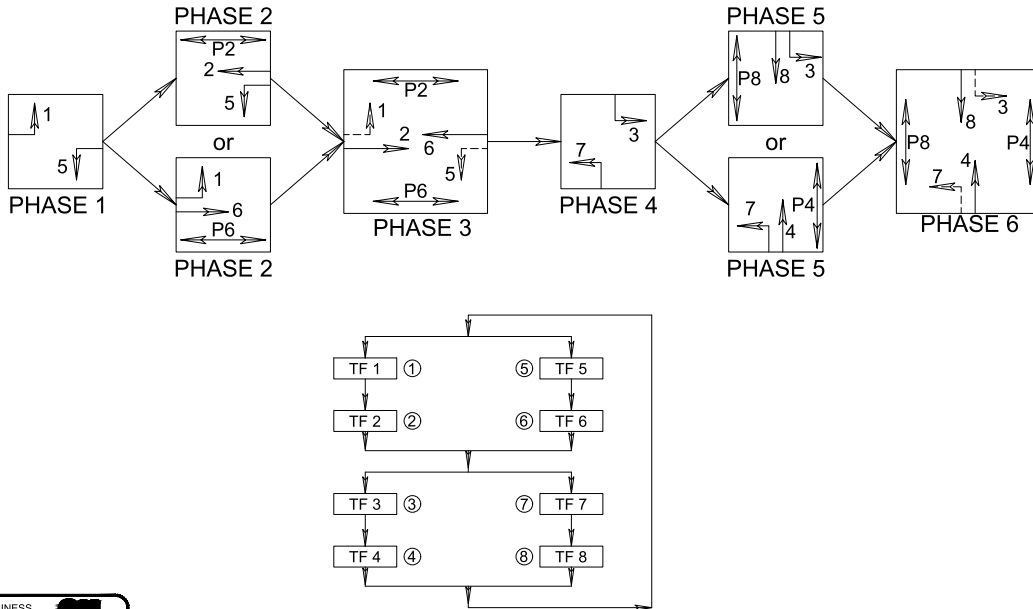
Kimley-Horn <small>INCORPORATED</small> 2024 1700 N. GULF BLVD., SUITE 200 TAMPA, FL 33604 TEL: 813.241.1111 WWW.KIMLEY-HORN.COM	SR 40 AT SW 46TH AVENUE STRAIN POLE SIGNALIZATION PLANS TEMPORARY PEDESTRIAN CONTROL SHEET T-07
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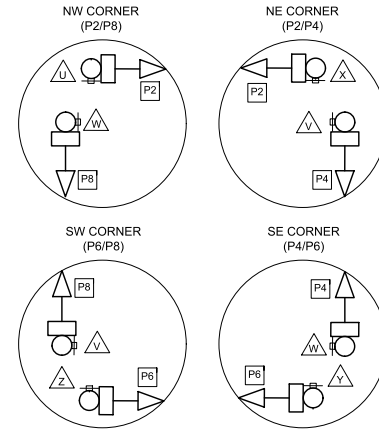
Drawing name: K:\OCA_CAD\142371945-SR 40 at SW 46th Signal Design\CAD\PlanSheets\12 SIGNAL PLAN ALT B.dwg I-09 SIGNALIZATION PLAN Jan 08, 2025 8:46am by: J.Lemmas
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CONTROLLER TIMINGS								
TIMING FUNCTION	1	2	3	4	5	6	7	8
MOVEMENT NUMBER	1	2	3	4	5	6	7	8
TURN TYPE	PROT	PERM	PROT	PERM	PROT	PERM	PROT	PERM
INITIAL	5.0	15.0	5.0	10.0	5.0	15.0	5.0	10.0
EXTENSION	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
MAXIMUM GREEN 1	30.0	60.0	15.0	30.0	30.0	60.0	15.0	30.0
YELLOW CLEARANCE	5.1	5.1	4.4	4.8	5.1	5.1	4.8	4.8
ALL RED	2.0	2.0	2.2	2.2	2.0	2.0	2.0	2.2
PEDESTRIAN WALK		7.0		7.0		7.0		7.0
PED. FDW		25.0		25.0		29.0		26.0
RECALL		MIN				MIN		
DET FUNCTION		LOCK				LOCK		

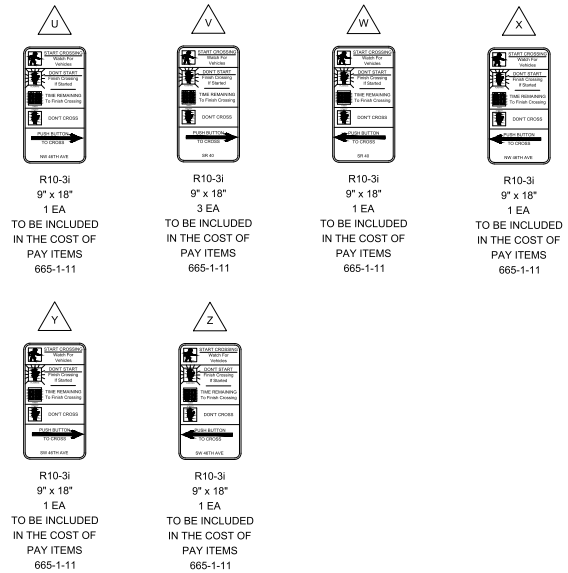
SIGNAL OPERATING PLAN 10



PED POLE DETAILS N.T.S.



PED SIGN DETAILS N.T.S.



CALL 2 BUSINESS DAYS BEFORE YOU DIG IT'S THE LAW! DIAL 811

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

NAME	DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION
DRAWN BY: RHA	REVIEWED BY: RHA	BID PLANS			
DESIGNED BY: SUPERVISOR, A.L. GARDNER, P.E.	DATE:				
CITY OF OCALA OCALA, FLORIDA OFFICE OF THE CITY ENGINEER 1805 NE 30TH AVENUE, BUILDING 060 OCALA, FL 32067					
 Kimley-Horn 2024 OCALA, FLORIDA 1700 N. W. 10TH AVENUE, SUITE 200 FT. LAUDERDALE, FL 33311 PHONE: (772) 336-7600, (800) 441-4044 WWW.KIMLEY-HORN.COM					
SR 40 AT SW 46TH AVENUE STRAIN POLE SIGNALIZATION PLANS SIGNALIZATION PLAN					
SHEET 1-09					
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61015-23.000, F.A.C.					

Drawing name: K:\OCA_CAD\42371949-SR 40 at SW 46th Signal Design\CAD\PlanSheets\14 STRAIN POLE SCHEDULE.dwg I-11 SPAN TABULATION Jan 08, 2025 8:50am by: J.Lemms
 This document, together with the drawings and design presented herein, is an instrument of service, the creation of which is a part of the professional services rendered by the undersigned and its association, and shall be without liability to the undersigned and its association, Inc.

SPAN TABULATION (NOT FOR CONSTRUCTION)

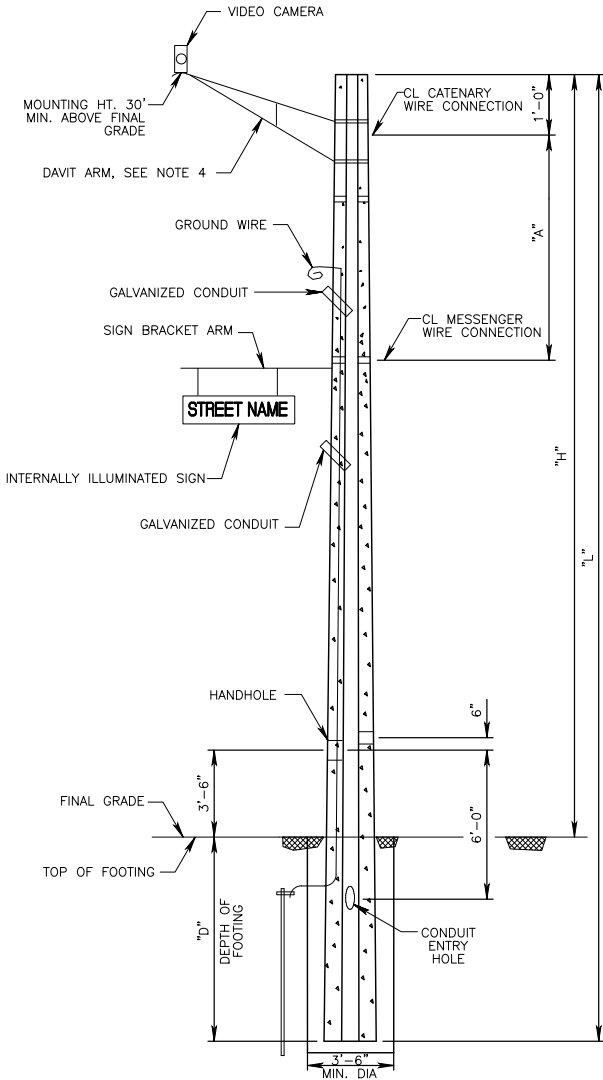
POLE ID	SPAN	SPAN LENGTH (ft)	BACK-PLATES (Y/N)	SIGNAL DATA DISTANCE FROM POLE (D#) / NUMBER OF SECTIONS (S)									SIGN DATA DISTANCE FROM POLE (D#) / HEIGHT (H) / WIDTH (W)											
				POLE	D1 (ft)	S	D2 (ft)	S	D3 (ft)	S	D4 (ft)	S	D1 (ft)	H	W	D2 (ft)	H	W	D3 (ft)	H	W	D4 (ft)	H	W
				1	A	126.9	Y	2	30.7	3	42.7	3	54.7	4	-	-	*	2'	5'-6"	58.8	3'	2'-6"	**	CCTV
2	B	115.9	Y	3	38.5	3	49.5	3	60.5	4	-	-	*	2'	8'-6"	66.9	3'	2'-6"	**	IMC		23.8***	30	24
3																								
3	C	123.8	Y	4	35.4	3	47.4	3	55.4	4	-	-	*	2'	5'-6"	59.4	3'	2'-6"	30.8***	30	24	-	-	-
4																								
4	D	125.6	Y	1	31.6	3	42.6	3	53.6	4	-	-	*	2'	8'-6"	58.5	3'	2'-6"	25.5***	30	24	-	-	-
1																								

- * INTERNALLY ILLUMINATED SIGN PLACED ON CANTILEVER BRACKET ARM ATTACHED TO POLE
- ** DETECTION CAMERA PLACED ON EXTENSION ARM ATTACHED TO POLE
- *** FUTURE SIGN

SR 40 AT SW 46TH AVENUE STRAIN POLE SIGNALIZATION PLANS SPAN TABULATION	 KIMLEY-HORN AND ASSOCIATES, INC. 1906 E. 17th Avenue, Suite 200 Denver, CO 80202	 CITY OF OCALA OFFICE OF THE CITY ENGINEER 1805 NE 30TH AVENUE, BUILDING 060 OCALA, FL 32665	DRAWN BY: SUPERVISOR A.L. GARDNER, P.E. CHECKED BY: RHA DATE:	REVISIONS DESCRIPTION DATE	BID PLANS
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Drawing name: K:\CALA\CA\142371949-SR 40 at SW 46th Signal Design\CAD\Plan\Sheet\14 STRAIN POLE ASSEMBLY DATA TABLE Job 08 2025 8:50am by: JyLemina
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**DETAIL OF PRESTRESSED CONCRETE
 STRAIN POLES TYPE P-III TO P-VIII**
 (SEE INDEX 641-010 FOR POLE DETAILS)

GENERAL NOTES:

- THIS DESIGN IS FOR SPAN WIRE ASSEMBLY WITH TWO-POINT ATTACHMENTS. INSTALLATION SHALL BE IN ACCORDANCE WITH THE FY 2024-25 EDITION OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- FOUNDATION PARAMETERS USED IN DESIGN:
 - STRAIN POLE 1:
 BORING: B-2
 CLASSIFICATION: COHESIONLESS SOIL (SAND) AND COHESIVE SOIL (CLAY)
 COHESION: 1,350 PSF
 UNIT WEIGHT: 47 PCF
 N-SPT #: 13
 SOIL LAYER THICKNESS: 16 FT
 DESIGN WATER TABLE: 0' BELOW SURFACE (ASSUMED)
 - STRAIN POLE 2:
 BORING: B-1
 CLASSIFICATION: COHESIONLESS SOIL (SAND)
 FRICTION ANGLE: 33.6 DEG
 UNIT WEIGHT: 48.4 PCF
 N-SPT #: 23
 SOIL LAYER THICKNESS: 16 FT
 DESIGN WATER TABLE: 0' BELOW SURFACE (ASSUMED)
 - STRAIN POLE 3:
 BORING: B-3
 CLASSIFICATION: COHESIONLESS SOIL (SAND)
 FRICTION ANGLE: 32 DEG
 UNIT WEIGHT: 47 PCF
 N-SPT #: 14.8
 SOIL LAYER THICKNESS: 16 FT
 DESIGN WATER TABLE: 0' BELOW SURFACE (ASSUMED)
 - STRAIN POLE 4:
 BORING: B-4
 CLASSIFICATION: COHESIONLESS SOIL (SAND)
 FRICTION ANGLE: 32 DEG
 UNIT WEIGHT: 47 PCF
 N-SPT #: 20
 SOIL LAYER THICKNESS: 16 FT
 DESIGN WATER TABLE: 0' BELOW SURFACE (ASSUMED)
- ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SPECIFIED.
- CONTRACTOR TO COORDINATE WITH MAINTAINING AGENCY FOR DAVIT ARM SPECIFICATIONS.
- PRESTRESSED CONCRETE STRAIN POLES SHALL BE CONSTRUCTED WITH A CONCRETE FOOTING AS PER SECTION 641-4.2 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, FY 2023-24.
- WORK THIS SHEET WITH THE FDOT FY 2024-25 STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION, WITH APPLICABLE DESIGN STANDARD MODIFICATIONS. SEE INDEX 641-010 FOR CONCRETE POLES, INDEX 700-050 FOR FREE SWINGING, INTERNAL ILLUMINATED STREET SIGN AND 634-001 FOR SIGN CABLE AND SPAN WIRE INSTALLATION DETAILS.
- DESIGN WIND SPEED = 150 MPH
- FOUNDATION DESIGN IS BASED ON SUBSURFACE SOIL EXPLORATION AND GEOTECHNICAL ENGINEERING REPORT PROVIDED BY GEOTECH INC., PROJECT NO. - 23 - 3006.203.1 DATED JANUARY 29, 2024.

ESTIMATED VERTICAL CLEARANCES

POLE ID	SPAN	ESTIMATED VERTICAL CLEARANCE (ft)
1	A	19.18'
2	B	18.98'
3	C	18.80'
4	D	18.04'

CONCRETE STRAIN POLE SCHEDULE

POLE ID	SHEET NO.	POLE LOCATION		POLE TYPE	POLE LENGTH (L)	POLE HEIGHT (H)	DEPTH (D)	DIMENSION (A)	FINAL GRADE		CROWN ELEVATION	CATENARY WIRE DIA. (IN.) / GRADE	MESSENGER WIRE DIA. (IN.) / GRADE
		STATION	OFFSET						POLE	ELEVATION			
1	T-08	906+58.97	54.89' LT	P-VIII	51'	35'	16'	7.25'	1	70.89	70.34	7/16" / UTILITY GRADE	7/16" / UTILITY GRADE
									2	70.08			
2	T-08	907+86.30	55.24' LT	P-VIII	52'	36'	16'	7.25'	2	70.08	70.62	7/16" / UTILITY GRADE	7/16" / UTILITY GRADE
									3	70.30			
									3	70.30			
3	T-08	907+88.74	60.66' RT	P-VIII	52'	36'	16'	7.25'	4	71.84	71.24	7/16" / UTILITY GRADE	7/16" / UTILITY GRADE
									4	71.84			
4	T-08	906+65.79	70.56' RT	P-VIII	50'	34'	16'	7.25'	1	70.89	72.49	7/16" / UTILITY GRADE	7/16" / UTILITY GRADE
									1	70.89			

REVISIONS	DESCRIPTION	DATE	BY	CHKD	DATE	DESCRIPTION	DATE
						BID PLANS	

OCALA
OFFICE OF THE CITY ENGINEER
1805 NE 30TH AVE, BUILDING 060
OCALA, FL 32909

Kimley-Horn
INCORPORATED
1900 S. W. 10TH AVE., SUITE 200
MIAMI, FL 33135
TEL: 305.444.1000
WWW.KIMLEY-HORN.COM

SR 40 AT SW 46TH AVENUE STRAIN POLE SIGNALIZATION PLANS STRAIN POLE ASSEMBLY DATA TABLE

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 6105-33.004, F.A.C.

Drawing name: K:\OCA_CAD\142371949-SR 40 at SW 46th Signal Design\CAD\PlanSheets\15 DETECTOR CHART ALL B.dwg I-13 DETECTOR CHART Job No: 2025- 8-50am By: TjLemms
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SIGNAL ID	BIU NO.	CARD NO.	CHANNEL NO.	DETECTOR ID	DETECTOR	DIRECTION	MOVEMENT TYPE	APP. SPEED MPH	PROTECTED PHASE	PERMISSIVE PHASE	OVERLAP	DELAY SEC.	DETECTOR SYSTEM	ZONE SIZE	DISTANCE TO STOP BAR	DETECTOR TYPE	LANE TYPE		
0235	1	1	1	XXXXX01	L-1A	EB	L	50	1				LOOP	40'X6'	0	PD	V		
			2	XXXXX02	L-6A	EB	T	50	6					LOOP	40'X6'	0	PD	V	
			3	XXXXX03	L-6B	EB	T	50	6					LOOP	40'X6'	0	PD	V	
		2	4	XXXXX04	L-6C	EB	R	50	6R					LOOP	40'X6'	0	PD	V	
			5	XXXXX05	L-6D	EB	T	50	6				10	LOOP	6'X6'	160	AD	V	
			6	XXXXX06	L-6E	EB	T	50	6					LOOP	6'X6'	160	AD	V	
		3	7	XXXXX07	L-6F	EB	R	50	6R					LOOP	6'X6'	300	AD, QD	V	
			8	XXXXX08	L-1B	EB	L	50	1					LOOP	6'X6'	356	AD, QD	V	
			9	XXXXX09	L-6G	EB	T	50	6					LOOP	6'X6'	356	AD	V	
		5	10	XXXXX10	L-6H	EB	T	50	6					LOOP	6'X6'	356	AD	V	
			11	XXXXX11	L-7A	NB	L	45	7					LOOP	40'X6'	0	PD	V	
			12	XXXXX12	L-4A	NB	T	45	4					LOOP	40'X6'	0	PD	V	
		6	13	XXXXX13	L-4B	NB	T	45	4					LOOP	40'X6'	0	PD	V	
			14	XXXXX14	L-4C	NB	T	45	4					LOOP	6'X6'	132	AD	V	
			15	XXXXX15	L-4D	NB	T	45	4					LOOP	6'X6'	132	AD	V	
		8	16	XXXXX16	L-7B	NB	L	45	7					LOOP	6'X6'	275	AD, QD	V	
			17	XXXXX17	L-5A	WB	L	50	5					LOOP	40'X6'	0	PD	V	
			18	XXXXX18	L-2A	WB	T	50	2					LOOP	40'X6'	0	PD	V	
		2	10	19	XXXXX19	L-2B	WB	T	50	2				LOOP	40'X6'	0	PD	V	
				20	XXXXX20	L-2C	WB	T	50	2				LOOP	6'X6'	160	AD	V	
				21	XXXXX21	L-2D	WB	T	50	2				LOOP	6'X6'	160	AD	V	
			11	22	XXXXX22	L-5B	WB	L	50	5					LOOP	6'X6'	285	AD, QD	V
				23	XXXXX23	L-2E	WB	T	50	2					LOOP	6'X6'	356	AD	V
				24	XXXXX24	L-2F	WB	T	50	2					LOOP	6'X6'	356	AD	V
			13	25	XXXXX25	L-3A	SB	L	40	3					LOOP	40'X6'	0	PD	V
				26	XXXXX26	L-8A	SB	T	40	8					LOOP	40'X6'	0	PD	V
				27	XXXXX27	L-8B	SB	T	40	8					LOOP	40'X6'	0	PD	V
			14	28	XXXXX28	L-8C	SB	T	40	8					LOOP	6'X6'	106	AD	V
				29	XXXXX29	L-8D	SB	T	40	8					LOOP	6'X6'	106	AD	V
				30	XXXXX30	L-3B	SB	L	40	3					LOOP	6'X6'	225	AD, QD	V
		3	16	31	XXXXX31	SPARE													
				32	XXXXX32	SPARE													
	33			XXXXX33	SPARE														
	17		34	XXXXX34	SPARE														
			35	XXXXX35	SPARE														
			36	XXXXX36	SPARE														
	18		37	XXXXX37	SPARE														
			38	XXXXX38	SPARE														
			39	XXXXX39	SPARE														
	20		40	XXXXX40	SPARE														
			41	XXXXX41	SPARE														
			42	XXXXX42	SPARE														
	22	43	XXXXX43	SPARE															
		44	XXXXX44	SPARE															
		45	XXXXX45	SPARE															
	23	46	XXXXX46	SPARE															
		47	XXXXX47	SPARE															
		48	XXXXX48	SPARE															
	25	49	XXXXX49	SPARE															
		50	XXXXX50	SPARE															
		51	XXXXX51	SPARE															
	26	52	XXXXX52	SPARE															
		53	XXXXX53	SPARE															
		54	XXXXX54	SPARE															
	27	55	XXXXX55	SPARE															
		56	XXXXX56	SPARE															
		57	XXXXX57	SPARE															
	28	58	XXXXX58	SPARE															
		59	XXXXX59	SPARE															
		60	XXXXX60	SPARE															
	30	61	XXXXX61	SPARE															
		62	XXXXX62	SPARE															
		63	XXXXX63	SPARE															
	31	64	XXXXX64	SPARE															

LEGEND:
 PD - PRESENCE DETECTION
 AD - ADVANCED DETECTION
 V - VEHICLE
 QD - QUEUE DETECTION
 L - LEFT
 T - THRU
 R - RIGHT

SR 40 AT SW 46TH AVENUE STRAIN POLE SIGNALIZATION PLANS DETECTOR CHART	SHEET 1-3	THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DYNAMICALLY SIGNED AND SEALED UNDER RULE 61015-23.009, F.A.C.	 KIMLEY-HORN AND ASSOCIATES, INC. 1795 E. STATE ST. SUITE 200 GAINESVILLE, FL 32608-3600 PHONE: 352.385.4600 FAX: 352.385.4601 WWW.KIMLEY-HORN.COM	 CITY OF Ocala Ocala, Florida OFFICE OF THE CITY ENGINEER 1805 NE 30TH AVE, BUILDING 060 Ocala, FL 32609 P: 352.241.1440	NAME	DATE	REVISIONS	DESCRIPTION	DATE	DESCRIPTION
					DRAWN BY: RHA	REVISION BY: RHA	DATE	DESCRIPTION	DATE	DESCRIPTION

Drawing name: K:\OCA_CAD\14237149-SR 40 at SW 46th_Signal Design\CAD\PlanSheets\21 INTERCONNECT PLAN Jan 08, 2025 9:03am by: TjLemmas
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INTERCONNECT NOTES

- CONDUIT RUNS, PULL BOXES, AND SPLICE VAULTS TO BE CONSTRUCTED AS INDICATED BELOW.
- EXISTING PEDESTAL IS AT UTILITY POLE L68.
- FIBER CONNECTION TO THE PROPOSED SIGNAL CABINET TO BE INSTALLED BY CITY OF OCALA FIBER.

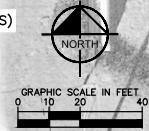
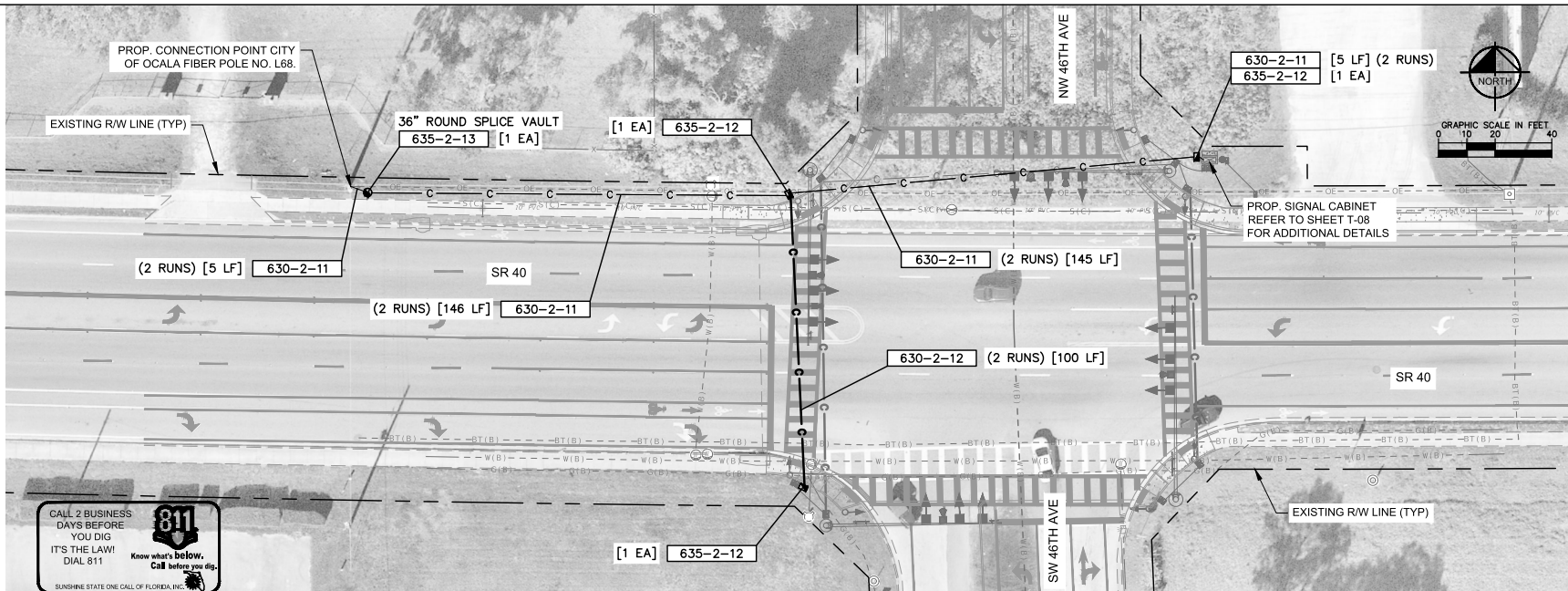
FDOT PAY ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	301
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	100
635-2-12	PULL & SPLICE BOX, FURNISH & INSTALL; 24"x36"	EA	3
635-2-13	PULL & SPLICE BOX, F&I, 36" ROUND COVER SIZE	EA	1

PAY ITEM NOTES

(ALL TRAFFIC EQUIPMENT MUST BE ON THE FDOT APPROVED PRODUCT LIST (APL), AND MUST BE APPROVED BY CITY OF OCALA BEFORE PROCUREMENT)

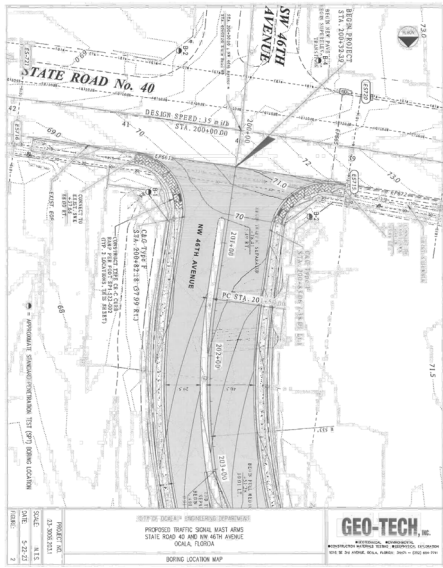
PAY ITEM NOS. 630-2-11, AND 630-2-12
 CONDUIT IS TO BE 2" SCH 40 PVC INSTALLED AT A 36" MINIMUM DEPTH. ENSURE THAT THE CONDUIT IS TERMINATED INSIDE OF THE PROPOSED CONTROLLER CABINET.

PAY ITEM NOS. 635-2-12, AND 635-2-13
 PULL BOXES AND COVERS SHALL BE NON-METALLIC CONSTRUCTION WITH RECESSED COVER LOGO "TRAFFIC SIGNAL" OR "FIBER OPTIC" AS APPROPRIATE. SHALL INCLUDE CONSTRUCTION OF A 12" WIDE BY 6" DEEP CONCRETE APRON AROUND THE NEW PULL BOX.



REVISIONS	DESCRIPTION	DATE	BY	DATE	DESCRIPTION	DATE	DESCRIPTION
	BID PLANS						
CITY OF OCALA OCALA, FLORIDA OFFICE OF THE CITY ENGINEER 1805 NE 30TH AVE, BLDG 060 OCALA, FL 32165		DRAWN BY RHA		REVIEWED BY RHA		DATE SUPERVISOR: A.L. GARDNER, P.E.	
OCALA Florida's Water Authority		Kimley-Horn 2024 OKLAHOMA AND OKLAHOMA, INC. 1900 N. WILSON AVE., SUITE 100 TULSA, OK 74104 PH: 918.596.3000 FAX: 918.596.3001 WWW.KIMLEY-HORN.COM					
SR 40 AT SW 46TH AVENUE STRAIN POLE SIGNALIZATION PLANS INTERCONNECT PLAN		SHEET T-15-16					
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Drawing name: K:\OCAL\CAD\42371949-SR 40 at SW 46th Signal Design\CAD\PlanSheets\22 SOIL BORINGS.dwg I-17 SOIL BORING MAP & LOGS Jan 08, 2025 8:33am by J.Lemmas
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Log of Borehole: B-1

Project: TRAFFIC SIGNAL-MAST ARMS, SR 40 AND NW 46TH AVE Project No: 23-3009.203.1
 Boring Location: (SEE BORING LOCATION MAP) Engineer: NJ/CAH
 Client: CITY OF OCALA - ENGINEERING DEPARTMENT Enclosure: BORING MAP

Depth (ft)	Symbol	Description	Consistency	Depth/Blow Number	Blow/ft	Standard Penetration Test N-Values
					Type	0 20 40 60 80 100
0		Ground Surface		0.0		
0-1		FINE SAND BROWN FINE SAND (SP)	HAND AUGERED POSSIBLE UTILITIES			
1-2			LOOSE	1	9	
2-3			LOOSE	2	21	
3-4			LOOSE	3	35	
4-5			LOOSE	4	25	
5-6			LOOSE	5	26.0	
6-7		CLAYEY SAND YELLOWISH BROWN AND GREY CLAYEY SAND (SC)	MEDIUM DENSE	7	21	
7-8			MEDIUM DENSE	8	35	
8-9			MEDIUM DENSE	9	25	
9-10			MEDIUM DENSE	10	25	
10-11			MEDIUM DENSE	11	35	
11-12			MEDIUM DENSE	12	35	
12-13			MEDIUM DENSE	13	35	
13-14			MEDIUM DENSE	14	35	
14-15			MEDIUM DENSE	15	35	
15-16			MEDIUM DENSE	16	35	
16-17			MEDIUM DENSE	17	35	
17-18			MEDIUM DENSE	18	35	
18-19			MEDIUM DENSE	19	35	
19-20			MEDIUM DENSE	20	35	
20-21			MEDIUM DENSE	21	35	
21-22			MEDIUM DENSE	22	35	
22-23			MEDIUM DENSE	23	35	
23-24			MEDIUM DENSE	24	35	
24-25			MEDIUM DENSE	25	35	
25-26			MEDIUM DENSE	26	35	
26-27			MEDIUM DENSE	27	35	
27-28			MEDIUM DENSE	28	35	
28-29			MEDIUM DENSE	29	35	
29-30			MEDIUM DENSE	30	35	
30-31			MEDIUM DENSE	31	35	
31-32			MEDIUM DENSE	32	35	
32-33			MEDIUM DENSE	33	35	
33-34			MEDIUM DENSE	34	35	
34-35			MEDIUM DENSE	35	35	
35-36			MEDIUM DENSE	36	35	
36-37			MEDIUM DENSE	37	35	
37-38			MEDIUM DENSE	38	35	
38-39			MEDIUM DENSE	39	35	
39-40			MEDIUM DENSE	40	35	
40-41			MEDIUM DENSE	41	35	
41-42			MEDIUM DENSE	42	35	
42-43			MEDIUM DENSE	43	35	
43-44			MEDIUM DENSE	44	35	
44-45			MEDIUM DENSE	45	35	
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
Drawing name: K:\OCA_CAD\42371945-SR 40 at SW 46th Signal Design\CAD\PlanSheets\1-03 POLE DATA.dwg L-03 LIGHTING POLE DATA AND LEGEND - Jan 08, 2025 9:08am by: TjLemmo
 This document, together with the drawings and design presented herein, is an instrument of service, its creation and use are subject to the terms and conditions set forth in the contract. It is the property of the Engineer and shall not be used for any other project without the written consent of the Engineer.

POLE DATA


POLE NO.	CIRCUIT	STATION	POLE OFFSET	LUMINAIRE WATTAGE	MOUNTING HEIGHT	ARM LENGTH	IES FILE	POLE SETBACK*	PAY ITEM
01	A-1	905+72.00	55.25 LT.	136	40'	10'	RFL-135W80LED4K-G2-R3S	9.0'	715-61-321
02	A-1	906+70.25	67.75 LT.	136	35'	16'	RFL-135W80LED4K-G2-R3S	13.5'	715-65-266
03	A-1	906+71.00	74.75 RT.	243	40'	10'	RFL-241W112LED4K-G2-R3S	15.3'	715-61-321
04	A-1	907+74.00	123.25 LT.	243	40'	10'	RFL-241W112LED4K-G2-R3S	9.2'	715-61-321
05	A-1	907+77.50	115.00 RT.	243	40'	10'	RFL-241W112LED4K-G2-R3S	7.1'	715-61-321
06	A-1	907+90.75	73.00 LT.	136	40'	10'	RFL-135W80LED4K-G2-R3S	24.9'	715-61-321
07	A-1	907+92.50	55.50 RT.	136	40'	10'	RFL-135W80LED4K-G2-R3S	11.7'	715-61-321


* SETBACK MEASURED FROM NEAREST EDGE OF PAVEMENT TO FACE OF POLE

LEGEND


- 

MANUFACTURER:
LUMEC BY SIGNIFY:
RFL-135W80LED4K-G2-R3S-UNV-DMG-RCD7-SP2-BK
RFL-241W112LED4K-G2-R3S-UNV-DMG-RCD7-SP2-BK


WAS USED AS THE BASIS OF DESIGN, WIRED FOR 120V OPERATION.
SEE POLE DATA TABLE FOR WATTAGE, MOUNTING HEIGHT, ARM LENGTH, AND FULL IES DESIGNATION. NEW LIGHT POLE AND LUMINAIRE.
- 


REMOVE EXIST. BRACKET ARM AND LUMINAIRE
- 


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LUMEC BY SIGNIFY:
RFL-135W80LED4K-G2-R3S-UNV-DMG-RCD7-SP2-BK


WAS USED AS THE BASIS OF DESIGN, WIRED FOR 120V OPERATION.
SEE POLE DATA TABLE FOR WATTAGE, MOUNTING HEIGHT, ARM LENGTH, AND FULL IES DESIGNATION. NEW UTILITY CONFLICT LIGHT POLE AND LUMINAIRE.
- 

MANUFACTURER:
LUMEC BY SIGNIFY:
RFL-135W80LED4K-G2-R3S-UNV-DMG-RCD7-SP2-BK

WAS USED AS THE BASIS OF DESIGN, WIRED FOR VOLTAGE PRESCRIBED BY OCALA ELECTRIC. NEW LUMINAIRE WITH 29' MOUNTING HEIGHT AND 10' BRACKET ARM PROCURED AND INSTALLED BY OCALA ELECTRIC.
- 

PROPOSED LOAD CENTER
- 

PROPOSED LOCATION OF 13" X 24" LIGHTING PULL BOX
- 

2" DIRECT BURIED CONDUIT
- 

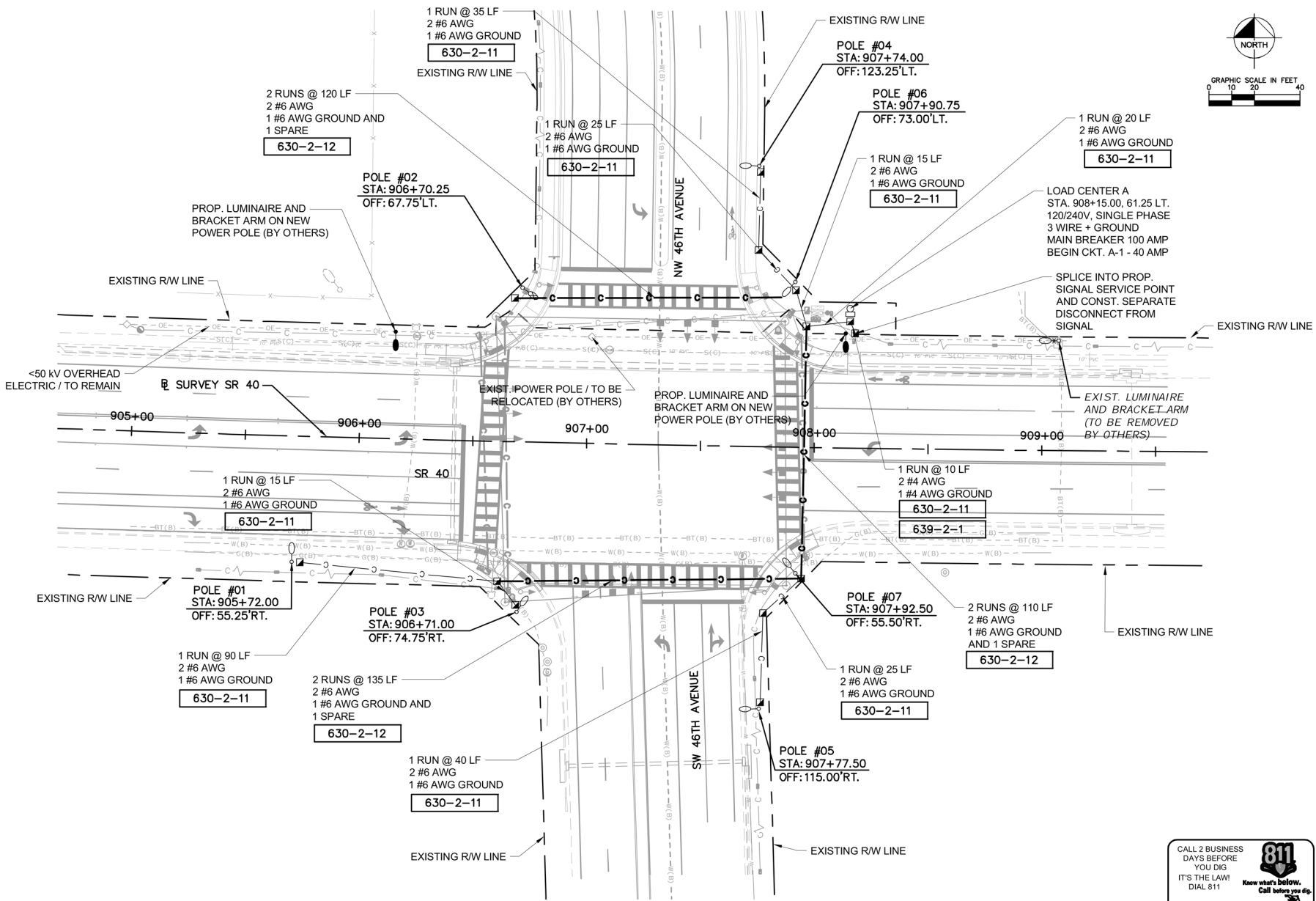
2" DIRECTIONAL DRILLED CONDUIT

**NEW OR RECONSTRUCTION SIGNALIZED INTERSECTION
LIGHTING DESIGN CRITERIA**

AVERAGE INITIAL INTENSITY: 3.0 H.F.C. (1.5 MIN.) / 1.5 V.F.C. (1.2 MIN.)
 UNIFORMITY RATIO AVG. / MIN.: 4 : 1 OR LESS**
 UNIFORMITY RATIO MAX. / MIN.: 10 : 1 OR LESS**
 DESIGN WIND SPEED: 140 MPH
 **ILLUMINATION UNIFORMITY RATIOS DO NOT APPLY TO V.F.C.

DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
REVISIONS	REVISIONS	REVISIONS	REVISIONS	REVISIONS	REVISIONS	REVISIONS	REVISIONS
DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION
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CHECKED BY	CHECKED BY	CHECKED BY	CHECKED BY	CHECKED BY	CHECKED BY	CHECKED BY	CHECKED BY
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NAME	NAME	NAME	NAME	NAME	NAME	NAME	NAME
RHA	RHA	RHA	RHA	RHA	RHA	RHA	RHA
SUPERVISOR	SUPERVISOR	SUPERVISOR	SUPERVISOR	SUPERVISOR	SUPERVISOR	SUPERVISOR	SUPERVISOR
CITY OF OCALA	CITY OF OCALA	CITY OF OCALA	CITY OF OCALA	CITY OF OCALA	CITY OF OCALA	CITY OF OCALA	CITY OF OCALA
OCALA, FLORIDA	OCALA, FLORIDA	OCALA, FLORIDA	OCALA, FLORIDA	OCALA, FLORIDA	OCALA, FLORIDA	OCALA, FLORIDA	OCALA, FLORIDA
OFFICE OF THE CITY ENGINEER	OFFICE OF THE CITY ENGINEER	OFFICE OF THE CITY ENGINEER	OFFICE OF THE CITY ENGINEER	OFFICE OF THE CITY ENGINEER	OFFICE OF THE CITY ENGINEER	OFFICE OF THE CITY ENGINEER	OFFICE OF THE CITY ENGINEER
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Drawing name: K:\OCA_Civil\42371045-SR 40 at SW 46th Signal Design\CAD\PlanSheets\L-04 Lighting Plans.dwg L-04 LIGHTING PLAN (2) Jun 08, 2025 10:21am by: T.J.Lemmas
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811

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NAME	DATE	REVISIONS	DESCRIPTION
DRAWN BY: KHA			
CHECKED BY: KHA			
DESIGNED BY: KHA			
DATE:			
BID PLANS			
SUPERVISORY: A.L. GARDNER, P.E.			
CITY OF OCALA OCALA, FLORIDA OFFICE OF THE CITY ENGINEER 1805 NE 30TH AVE, BLDG 000 OCALA, FL 32067			
OCALA			
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SR 40 AT SW 46TH AVENUE STRAIN POLE SIGNALIZATION PLANS LIGHTING PLAN			
SHEET L-04			

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