

# Find your place

# CITY OF OCALA OFFICE OF THE CITY ENGINEER SW 43RD CT AT SW 40TH ST SIGNALIZATION PLANS (STRAIN POLE) **BID PLANS**

CONTRACT NO. CIP/250428

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SW 43RD CT N POSTED/DESIGN SPEED = 40 MPH SW 43RD CT S POSTED/DESIGN SPEED = 30 MPH SW 40TH ST E POSTED/DESIGN SPEED = 30 MPH SW 40TH ST W POSTED/DESIGN SPEED = 45 MPH

### CONSTRUCTION REFERENCES

### **BID SPECIFICATIONS AND CONTRACT**

**CITY OFFICIALS** MAYOR - BEN MARCIANO

CITY OF OCALA LAND DEVELOPMENT CODE, LATEST EDITION

**DISTRICT 1 - COUNCIL PRESIDENT BARRY MANSFIELD** DISTRICT 2 - COUNCIL MEMBER IRE BETHEA, SR. **DISTRICT 3 - COUNCIL MEMBER JAY MUSLEH** 

DISTRICT 5 - COUNCIL MEMBER JAMES HILTY, SR.

DISTRICT 4 - COUNCIL PRESIDENT PRO-TEM KRISTEN DREYER

CITY ENGR./ENGINEERING DIRECTOR - SEAN LANIER, P.E., CFM

CITY OF OCALA STANDARD SPECIFICATIONS FOR CONSTRUCTION OF STREETS,

STORMWATER, TRAFFIC, WATER AND SEWER INFRASTRUCTURE, JANUARY 2024 FDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION, FY 2024-25 FDOT STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION, FY 2024-25 MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND

MAINTENANCE FOR STREETS AND HIGHWAYS (FLORIDA GREENBOOK), FDOT, 2018 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, 2009 EDITION, INCLUDING REVISIONS 1 AND 2 USDOT, FHWA

	LENGTH OF PROJECT	
	LINEAR FEET	MILES
ROADWAY	131.5	0.025
BRIDGES	N/A	N/A
NET LENGTH OF PROJECT	N/A	N/A
EXCEPTIONS	N/A	N/A
GROSS LENGTH OF PROJECT	N/A	N/A



PLANS

BID

OFFICE OF THE CITY 1805 NE 30TH AVE, F OCALA, FL 34

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Horn

COMPANIES	
CONTACT PERSON	PHONE NUMBER
BRYAN WILLIAMS	(352) 966-8107
JOHN PLAMONDON	(352) 425-4444
KENNY KROLL	(352) 553-0094
LANDON MEAHL	(407) 408-5566
STEVE SHORT	(352) 374-3274
STACEY FERRANTE	(352) 351-6775
OSHANE PARKER	(352) 401-6950
NICK BLIZZARD	(352) 351-6733
	COMPANIES CONTACT PERSON BRYAN WILLIAMS JOHN PLAMONDON KENNY KROLL LANDON MEAHL STEVE SHORT STACEY FERRANTE OSHANE PARKER NICK BLIZZARD

FLORIDA, AND

AMBER L. GAR KIMLEY-HORN 1700 SE 17TH OCALA, FLORI FLORIDA P.E.

SIGNATURE

(NOT TO SCALE) SECTIONS: 34: TOWNSHIP: 15 SOUTH; RANGE: 21 EAST MARION COUNTY, FLORIDA

#### ENGINEER'S CERTIFICATION

I HEREBY CERTIFY THAT THE WORK PROPOSED BY THESE PLANS COMPLY WITH THE APPLICABLE STANDARDS AND SPECIFICATIONS AS REQUIRED BY THE LAND DEVELOPMENT CODE OF MARION COUNTY,

FDOT STANDARD PLANS EXCEPT AS NOTED OR SHOWN.	
RTNER, P.E. AND ASSOCIATES, INC. (REGISTRY 35106) STREET, SUITE 200	
DA 34471 NO. 72294	AT SW 40TH ST IN POLE PLANS SHEET Eet is the electronic file
CALL 2 BUSINESS DAYS BEFORE YOU DIG IT'S THE LAW! DIAL 811 Know what's below. Call before you dig.	SW 43RD CT SIGNAL STRA KEY KEY
SUNSHINE STATE ONE CALL OF FLORIDA, INC.	T-01



IE REVISIONS	DATE DESCRIPTION DATE DESCRIPTION		BID PLANS	PE	
NAME DA'	N VIIA	AUA	ED KHA	/ISED BY: A. L. GARTNER	
CITY OF OCALA	OCALA, FLORIDA DR/		Find your place OF 11B CUT ENGINEER REVI Find your place OCAIA FI 34270 BD	SUP	01 U U U U U U U U U U U U U U U U U U U
	NIMEV »> HOLD		A AUGEN L. GARTNER, PAS-CARTNER, INC. ARER L. GARTNER, P. C. C. ARTNER, P. C.	1/00 SE 1/18 SIREEL, SUILE 200, UCALA, FL 244/1 PHONE: 352-438-3000, REGISTRY 35108	
GWI 17D CT 1 T GWI 10TH 6T	2W 43KD CI AI 2W 401H31	SIGNAL PLANS	SIGNATURE SHEFT		
	S	HI T-	EET 02		

#### GENERAL NOTES

- 1. THE MAINTAINING AGENCY IS CITY OF OCALA.
- 2. THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE CITY OF OCALA STANDARD SPECIFICATIONS FOR CONSTRUCTION OF STREETS, STORMWATER, TRAFFIC, WATER, AND SEWER INFRASTRUCTURE (JANUARY 2024), THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD); THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (FY 2024-25) AND THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS FOR ROAD CONSTRUCTION (FY 2024-25), AND ALL SUPPLEMENTS APPLICABLE THERETO.
- 3. ALL WORK SHALL CONFORM TO SECTION 34 41 13 TRAFFIC SIGNALS, OF THE CITY OF OCALA STANDARD SPECIFICATIONS FOR CONSTRUCTION OF STREETS, STORMWATER, TRAFFIC, WATER, AND SEWER INFRASTRUCTURE.
- 4. THESE PLANS REFLECT CONDITIONS KNOWN AT THE TIME OF PLAN DEVELOPMENT. IN THE EVENT THAT ACTUAL FIELD CONDITIONS PREVENT THE APPLICATION OF THESE PLANS AND/OR THE SPECIFICATIONS OR THE PROGRESSION OF THE WORK SPECIFIED IN THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND CITY OF OCALA ENGINEER'S OFFICE IMMEDIATELY AND PRIOR TO ANY FURTHER EXECUTION OF THE WORK.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITY LOCATION COORDINATION EFFORTS AS REQUIRED BY OSHA AND FLORIDA STATUTE REGARDING PROTECTION OF EXISTING UTILITIES. THE CONTRACTOR IS REMINDED THAT NOT ALL UTILITY PROVIDERS ARE SUBSCRIBERS TO THE SUNSHINE STATE ONE-CALL SYSTEM, AND IT SHALL BE INCUMBENT UPON THE CONTRACTOR TO MAKE EVERY EFFORT TO ENSURE THAT ALL UTILITIES ARE LOCATED PRIOR TO CONSTRUCTION.
- 6. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY DEPARTMENT AT LEAST TWO (2) BUSINESS DAYS IN ADVANCE OF POLE SETTING AND OPERATIONS WHERE CONFLICT WITH OVERHEAD ELECTRICAL UTILITIES IS EXPECTED, WITH TRENCHING OPERATIONS, OR ANYWHERE UTILITY CONFLICTS MAY BE ENCOUNTERED.
- IN THE EVENT OF CONFLICT WITH THE CROSSING OF EXISTING UNDERGROUND UTILITIES, THE CONTRACTOR SHALL ADJUST THE DEPTH OF PROPOSED CONDUIT AS INSTRUCTED BY THE ENGINEER IN CHARGE TO PROVIDE VERTICAL SEPARATION PER PREVAILING STANDARDS.
- 8. THE CONTRACTOR SHALL HAND DIG THE FIRST 4' AT EACH POLE LOCATION AND THE FIRST 2' AT EACH PEDESTAL LOCATION.
- 9. THE CONTRACTOR SHALL NOTIFY CITY OF OCALA AT LEAST SEVEN (7) BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION.
- 10. CONTRACTOR SHALL APPLY FOR A RIGHT-OF-WAY UTILIZATION PERMIT, AT LEAST 5 BUSINESS DAYS PRIOR TO STARTING WORK DATE, FOR ANY WORK BEING DONE WITHIN THE CITY'S RIGHT-OF-WAY.
- 11. IN THE EVENT THAT TRAFFIC SIGNAL CONSTRUCTION ACTIVITY AT THE INTERSECTION REQUIRES CLOSURE OF A LANE OR LANES, THE CONTRACTOR SHALL PROCURE THE SERVICES OF TRAFFIC CONTROL OFFICER TO DIRECT TRAFFIC FOR THE DURATION OF THE CLOSURE(S). PAYMENT FOR THE OFFICER SHALL BE INCIDENTAL TO THE WORK AND WILL NOT BE PAID SEPARATELY.
- 12. ALL MAINTENANCE OF TRAFFIC FOR THIS INSTALLATION SHALL CONFORM TO THE FDOT STANDARD INDEX(ES) 102-600 THROUGH 102-680 THAT ARE MOST APPLICABLE TO THE INTENT OF THE CONSTRUCTION ACTIVITY IN PROGRESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF TRAFFIC FOR THE DURATION OF THIS PROJECT.
- 13. VARIABLE MESSAGE SIGNS SHALL BE INSTALLED ON SW 43RD COURT AND SW 40TH STREET 500 FEET IN ADVANCE OF THE TRAFFIC SIGNAL. THE SIGNS SHALL BE ACTIVATED ON THE DAY THE SIGNAL IS TURNED ON AND WILL OPERATE FOR 14 DAYS. THE MESSAGE SHALL BE "NEW SIGNAL AHEAD" "BE PREPARED TO STOP".
- 14. AT THE TIME OF FINAL ACCEPTANCE OF THE PROJECT, THE TRAFFIC SIGNALS SHALL BE INSPECTED BY THE CITY OF OCALA TRAFFIC DIVISION. AT THAT TIME, THE CONTRACTOR SHALL PROVIDE A WARRANTY/MAINTENANCE BOND AND FURNISH ALL NECESSARY TEST EQUIPMENT, INCLUDING A BUCKET TRUCK, FOR THE TESTING AND INSPECTION OF TRAFFIC SIGNALS. A SIGNAL INSPECTION IS TO BE SCHEDULED WITH THE CITY OF OCALA PUBLIC WORKS (352) 351-6733, A MINIMUM OF 10 DAYS PRIOR TO THE SIGNAL BEING PLACED INTO OPERATION.
- 15. DURING NON-WORKING HOURS, THE CONTRACTOR SHALL NOT STORE ANY MATERIALS OR PARK ANY EQUIPMENT WITHIN 30 FEET OF THE EDGE OF THE TRAVELED WAY. IF THE ABOVE IS NOT POSSIBLE, THE CONTRACTOR SHALL APPOINT AN APPROVED STORAGE AREA AND SUCH AREA SHALL BE PROPERLY DELINEATED AND ADVANCE WARNING SHALL BE UTILIZED.
- 16. PER FDOT STANDARD SPECIFICATIONS, ALL FIELD WIRING SHALL BE CLEARLY IDENTIFIED WITH WEATHERPROOF TAGS THAT ARE SECURELY ATTACHED TO EACH CABLE. THE CONTRACTOR SHALL SUBMIT THE PROPOSED TAGGING SYSTEM WITH THE SUBMITTALS PACKAGE AS REQUIRED FOR PERMIT JOBS.
- 17. PRIOR TO FINAL ACCEPTANCE BY THE CITY, SUBMIT TO THE CITY TRAFFIC ENGINEER TWO (2) COMPLETE AND COMPREHENSIVE SETS OF AS-BUILT PLANS ON TWENTY-FOUR INCH BY THIRTY-SIX INCH (24"x36") PLAN SHEETS AND ONE ELECTRONIC FILE COPY ON READABLE CD. AS-BUILT DRAWINGS SHALL ACCURATELY REFLECT THE ACTUAL, AS-BUILT CABINET IN THE FIELD AND SHALL IDENTIFY THE FOLLOWING INFORMATION.
  - a. ABANDONED AND UNUSED PULL BOXES SHALL BE CLEARLY LABELED.DISTANCES FROM THE INTERSECTION OF EACH INSTALLED PULL BOX SHALL BE MEASURED FROM THE PERPENDICULAR EDGE OF CURB AND FROM THE EDGE OF THE NEAREST CURB TO INDICATE LOCATION IN RELATION TO THE ROADWAY.
  - b. THE INSTALLED CONDUIT'S SIZE AD NUMBER OF RUNS SHALL BE CLEARLY NOTED AS WELL AS THE DISTANCE AWAY FROM THE NEAREST CURB.
  - c. IF INSTALLED, THE LOCATION OF SIGNAL POLES, CONTROLLER CABINET, UNINTERRUPTIBLE POWER SUPPLY AND BATTERY BACKUP CABINET, COMMUNICATION CABLE, VIDEO DETECTION CAMERAS AND CABLE, ITS CAMERAS AND CABLE, OVERHEAD MOUNTED STREET NAME SIGNS, LIGHTED OR NON-LIGHTED AND CABLE RUNS, AND POWER CABLE SHALL BE SHOWN ON THE PLANS.
  - d. TWO (2) SETS OF SIGNAL WIRING COLOR CODE FORMS SHALL BE INCLUDED WITH THE AS-BUILT PLANS.
  - e. CONTRÁCTOR SHAL CORRECT ANY ERRORS TO THE AS-BUILT PLANS UPON REVIEW BY THE ENGINEER BEFORE FINAL ACCEPTANCE IS COMPLETE.
- 18. THE CONTRACTOR SHALL SUBMIT CERTIFICATES OF INSPECTION FROM THE MANUFACTURER THAT THE EQUIPMENT AND MATERIALS TO BE SUPPLIED HAVE BEEN INSPECTED AT THE PLANT AND MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. THESE CERTIFICATES SHALL BE SUBMITTED PRIOR TO BEGINNING WORK.

- 19. THE CABINET DOOR SHALL BE ORIENTED SO THAT THE DOOR OPENS AWAY FR
- 20. THREE SPARE CONDUCTORS PER SIGNAL CABLE ARE REQUIRED. SPARES SHA GROUNDING FACILITY IN THE CONTROLLER CABINET.
- 21. ALL TRAFFIC SIGNAL HEAD ASSEMBLIES SHALL HAVE A MINIMUM LOW POINT OF CLEARANCE OF 19' FROM THE BOTTOM OF THE ASSEMBLY TO THE ROADWAY.
- 22. THE CONTRACTOR SHALL VERIFY COLOR CODES WITH CITY OF OCALA FOR TH
- 23. CIRCULAR DRIP LOOPS (MINIMUM ONE CIRCLE) ARE TO BE PROVIDED AT ALL A ELECTRICAL SIGN, AND POLE LOCATIONS.
- 24. CABLE GRIP SHALL BE OF SUFFICIENT SIZE TO NOT COMPROMISE THE INSULAT
- 25. ALL CABLE SHALL BE PULLED IN THE CONDUIT WITH A CABLE GRIP DESIGNED TO CABLE. A WINCH WITH A SLIP CLUTCH SHALL BE USED TO ENSURE THAT THE A LUBRICANT SHALL BE USED TO FACILITATE THE PULLING OF THE CABLE.

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F CLEARANCE OF 17.5' AND A MAXIMUM HIGH POINT OF				+
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	CITY OF OCALA	OCAL A CCALA, FLORIDA	Find your place OCALA, FL 34470 600 Find your place	15–23.004, F.A.C.
	and I windowin	Nimey » horn	<ul> <li>2.223 NIMELFLOOM AND ASSOCIATES, INC. AMBER L. GRATINER, P.E.</li> <li>P.E. LUCENER NO. 72294</li> <li>1700 SE 17TH STREET, SUITE 200, OCALA, FL 34471</li> </ul>	ILE DIGITALLY SIGNED AND SEALED UNDER RULE 6
CALL 2 BUSINESS DAYS BEFORE YOU DIG IT'S THE LAW! DIAL 811 Know what's below. Call before you dig. SUNSHINE STATE ONE CALL OF FLORIDA, INC.	TO THE ING TA TO CHEAT WE	<sup>4</sup> E SIGNAL STRAIN POLE PLANS	GENERAL NOTES &	E OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FI

FDOT PAY	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
522-2	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	SY	25
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	3355
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	535
632-7-1	SIGNAL CABLE- NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	PI	1
633-3-11	FIBER OPTIC CONNECTION HARDWARE, FURNISH & INSTALL, SPLICE ENCLOSURE	EA	1
633-3-16	FIBER OPTIC CONNECTION HARDWARE, FURNISH & INSTALL, PATCH PANEL- FIELD TERMINATED	EA	1
634-4-153	SPAN WIRE ASSEMBLY, FURNISH & INSTALL, TWO POINT, BOX	PI	1
634-5-1	FIBERGLASS INSULATOR, FURNISH & INSTALL	LF	48
635-2-11	PULL & SPLICE BOX, FURNISH & INSTALL, 13" x 24" COVER SIZE	EA	19
635-2-12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA	10
639-1-122	ELECTRICAL POWER SERVICE, FURNISH & INSTALL, UNDERGROUND, METER PURCHASED BY CONTRACTOR FROM POWER COMPANY	AS	1
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF	3,395
639-3-11	ELECTRICAL SERVICE DISCONNECT, FURNISH & INSTALL, POLE MOUNT	EA	1
641-2-12	PRESTRESSED CONCRETE POLE, FURNISH & INSTALL, TYPE P-II SERVICE POLE	EA	1
641-2-30	PRESTRESSED CONCRETE POLE, INSTALL	EA	4
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	EA	4
650-1-24	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL POLYCARBONATE W/ALUM TOP, 3 SECTION, 1 WAY	AS	8
650-1-26	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL POLYCARBONATE W/ALUM TOP, 4 SECTION, 1 WAY	AS	2
653-1-12	PEDESTRIAN SIGNAL, FURNISH & INSTALL, LED COUNTDOWN, 2 WAY	AS	4
660-2-102	LOOP ASSEMBLY, FURNISH & INSTALL, TYPE B	AS	4
660-2-106	LOOP ASSEMBLY, FURNISH & INSTALL, TYPE F	AS	4
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
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
685-1-13	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	4
700-3-201	SIGN PANEL, FURNISH & INSTALL, OVERHEAD MOUNT, UP TO 12 SF	EA	2
700-5-22	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, 12-18 SF	EA	4
700-141-121	ENHANCED HIGHWAY SIGN ASSEMBLY, AC POWERED, F&I GROUND MOUNT, W/2 BEACONS, UP TO 12 SF OF STATIC SIGN PANELS	EA	2
700-141-510	ENHANCED HIGHWAY SIGN ASSEMBLY, AC POWERED, RETROFIT EXISTING GROUND MOUNT, 1 BEACON	EA	6
700-142-902	ENHANCED HIGHWAY SIGN ASSEMBLY, SOLAR POWERED, REMOVE - GROUND MOUNT	EA	2
N/A	PROJECT SIGN	EA	2

### 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. 522-2

QUANTITY TO BE BASED ON AREAS NEEDED TO RECONSTRUCT EXISTING CONCRETE SIDEWALK WHERE PROPOSED IMPROVEMENTS IMPACT EXISTING SIDEWALK. PAY ITEM TO INCLUDE REMOVAL OF EXISTING CONCRETE AND CONSTRUCTION OF NEW CONCRETE.

#### 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 NO. 634-5-1

CONTRACTOR TO INSTALL NON-CONDUCTIVE INSULATORS WHERE CATENARY AND MESSENGER WIRES CROSS OVERHEAD POWER CONDUCTORS. CONTRACTOR TO COORDINATE WITH OCALA ELECTRIC UTILITY PRIOR TO PROCUREMENT OF MATERIALS TO CONFIRM REQUIREMENTS FOR CROSSING OF THE ELECTRIC LINES.

#### PAY ITEM NO. 635-2-11

PULL BOXES AND COVERS SHALL BE NON-METALLIC CONSTRUCTION WITH RECESSED COVER LOGO "TRAFFIC SIGNAL", "LOOP", 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. 650-1-14 AND 650-1-16

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 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 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 AN ALUMINUM EXTENSION ARM ON THE STRAIN POLE

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

#### PAY ITEM NO 685-1-13

SHALL CONSIST OF AN ALPHA TECHNOLOGIES FXM HP1100 UNINTERRUPTED POWER SUPPLY (UPS) WITH AN ALPHA TECHNOLOGIES SE48-2216 WITH UATS, RM FOR FXM - 1100/2000, 5 FT, BCK, AG, LAMP, LRI, SLIDE OUT BATTERY TRAYS, NAT. AI, AND NO GENERATOR COMPARTMENT.

#### PAY ITEM NO. 700-5-22

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. 700-141-510

INCLUDES HARDWARE AND EQUIPMENT TO CONVERT EXISTING SOLAR FLASHING BEACONS TO AC POWER.

#### PAY ITEM FOR PROJECT SIGN

DETAIL FOR PROJECT SIGN IS PROVIDED ON SHEET T-13. CONTRACTOR TO CONFIRM SIGN SPECIFICATIONS WITH THE CITY OF OCALA PRIOR TO ORDERING.

![](_page_3_Figure_34.jpeg)

![](_page_4_Figure_0.jpeg)

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ROW		NAME	KHA	KHA	ED BY: A. L. GA
MENONE AL		1470 A CC	BY	REVIEWED BY	SUPERVIS
		CITY OF OCALA		Find your place OCAI A. H. 34470	
		KimlawiiHorn		AUGE THORN ASSOCIATES, INC. AMBER T. GARTINER, P.E. P.E. UCENER NO. 72294	PHONE: 352-438-3000, REGISTRY 35106
	CALL 2 BUSINESS DAYS BEFORE YOU DIG IT'S THE LAW! DIAL 811 SUNSHINE STATE ONE CALL OF FLORIDA INC.	SW 43RD CT AT SW 40TH ST	SIGNAL PLANS	SIGNING AND MARKING PLAN	
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![](_page_5_Figure_0.jpeg)

### CONTROLLER TIMINGS

						_			
TIMING FUNCTION			2	3	4	5	6	7	8
I	MOVEMENT NUMBER	1	2	3	4	5	6	7	8
	MOVEMENT	NBL	SB	-	WB	SBL	NB	-	EB
	INITIAL	5.0	15.0	-	10.0	5.0	15.0	-	10.0
N	EXTENSION	3.0	3.0	-	3.0	3.0	3.0	-	3.0
CTIC	MAXIMUM GREEN 1	20.0	50.0	-	40.0	20.0	50.0	-	40.0
NN	YELLOW CLEARANCE	3.7	4.4	-	3.7	4.4	3.7	-	4.8
Ъ	ALL RED	2.5	2.0	-	2.5	2.0	2.0	-	2.0
<b>MIN</b>	PEDESTRIAN WALK	-	7.0	-	7.0	-	7.0	-	7.0
TIN	PED. FDW	-	21.0	-	23.0	-	23.0	-	27.0

![](_page_6_Figure_2.jpeg)

665-1-11

![](_page_6_Figure_3.jpeg)

![](_page_6_Figure_4.jpeg)

![](_page_6_Figure_7.jpeg)

![](_page_6_Figure_8.jpeg)

![](_page_6_Picture_10.jpeg)

![](_page_7_Figure_0.jpeg)

![](_page_8_Figure_0.jpeg)

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DATE		TNED DE	ALINER, P.E.
NAME	КНА	KHA BV: A T CAT	B1 : A. L. UAI
	DRAWN BY	EVIEWED BY	SUPEKVISED
	4	DG 600 R	1
CITY OF OCALA	OCALA, FLORDA	Find your place OCALA, FL 3470	3.004, F.A.C.
Viscal Second Second	NIIIIey»TUTI	© 2025 KINLEY-HORN AND ASSOCIATES. INC. AMBER L. GARTNER, P.E. P.E. LUSUNE NO. 72294 1700 SE 17714 STREET, SUITE 200, 00:MA, FL. 34471	PHONE:352-438-3000, REGENY 35106 DIGITALLY SIGNED AND SEALED UNDER RULE 61615-21
CUL AT DT AT CWI ANTI CT	THE SIGNAL STRAIN POLE PLANS	60 H SCHOOL FLASHER PLAN	THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE D

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GENERAL NOTES:

1. 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.

2. FOUNDATION PARAMETERS USED IN DESIGN:

STRAIN POLE 1 BORING: PB-17 FRICTION ANGLE: 31 DEG. UNIT WEIGHT: 42.6 PCF N-SPT #: 5.18 SOIL THICKNESS: 15 FT. DESIGN WATER TABLE: O' BELOW SURFACE (ASSUMED)

STRAIN POLE 2 BORING: PB-18 FRICTION ANGLE: 31 DEG. UNIT WEIGHT: 42.6 PCF N-SPT #: 7.35 SOIL THICKNESS: 15 FT. DESIGN WATER TABLE: O' BELOW SURFACE (ASSUMED)

STRAIN POLE 3 BORING: PB-18 FRICTION ANGLE: 31 DEG. UNIT WEIGHT: 42.6 PCF N-SPT #: 7.35 SOIL THICKNESS: 15 FT. DESIGN WATER TABLE: O' BELOW SURFACE (ASSUMED)

STRAIN POLE 4 BORING: PB-17 FRICTION ANGLE: 31 DEG. UNIT WEIGHT: 42.6 PCF N-SPT #: 5.98 SOIL THICKNESS: 15 FT. DESIGN WATER TABLE: O' BELOW SURFACE (ASSUMED)

- 3. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SPECIFIED.
- 4. CONTRACTOR TO COORDINATE WITH MAINTAINING AGENCY FOR DAVIT ARM SPECIFICATIONS.
- 5. 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.
- 6. 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.
- 7. DESIGN WIND SPEED = 140 MPH
- 8. FOUNDATION DESIGN IS BASED ON SUBSURFACE SOIL EXPLORATION AND GEOTECHNICAL BORINGS PROVIDED BY GEOTECH INC.

### CONCRETE STRAIN POLE SCHEDUL

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CITY OF OCALA	OCALA, FLORIDA		1805 NE 30TH AVE, BLDG 600	Find your place OCALA. FL 34470		
	NIM ev» TOT	ON STATES AND	AMBER LI GARTNER, P.E.	TTL LUCING NUL 7237	PHONE: 352-438-3000, REGISTRY 35106	
	2W 45KD CI AI 2W 401H 21	SIGNAL PLANS	STRAIN POLE ASSEMBLIES DATA		TABLE	

SHEET T-11

### ESTIMATED VERTICAL CLEARANCES

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![](_page_11_Figure_1.jpeg)

## YOUR TAX DOLLARS AT WORK ....

street name Contract No. CIP/250303

## **CITY OF OCALA, FLORIDA**

## **CITY COUNCIL:**

Barry Mansfield DISTRICT 1

Ire Bethea, Sr. (COUNCIL PRESIDENT PRO-TEM) DISTRICT 2

Jay Musleh DISTRICT 3

Kristen Dreyer (COUNCIL PRESIDENT) DISTRICT 4 James Hilty, Sr. DISTRICT 5 Ben Marciano

MAYOR

![](_page_12_Picture_8.jpeg)

CONTRACTOR (name) PROJECT COST (bid amount)

START DATE (mm - dd - yyyy)

COMPLETION DATE (mm - dd - yyyy)

FOR PROJECT INFORMATION CONTACT: CAPITAL IMPROVEMENT PROJECTS DIVISION 352-629-8419

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