

**GENERAL:**

- NO BENCHMARK DATUM USED FOR THIS PROJECT. THE BASE MAPPING DEPICTED ON ALL PLAN SHEETS WAS OBTAINED FROM EXISTING PLANS PROVIDED BY FDOT AND AERIAL PHOTOGRAPHY. THEREFORE, THE ACCURACY OF THE BASE MAPPING IS NOT THAT OF SURVEYED MAPPING TYPICALLY USED WITH ROADWAY DESIGN PROJECTS AND SHOULD ONLY BE RELIED UPON FOR ESTABLISHING GENERAL LOCATIONS FOR EXISTING AND PROPOSED FEATURES.
- BASELINES ON I-75 SHOWN ON THE PLANS ARE NOT SURVEY AND ARE FOR INFORMATION PURPOSES ONLY AND ARE NOT STAKED IN THE FIELD.
- THE RIGHT OF WAY DESIGNATIONS SHOWN ON THE PLANS ARE NOT TIED TO A SURVEYED CENTERLINE AND AS SUCH ARE APPROXIMATE. THEREFORE, THE CONTRACTOR IS TO WORK WITHIN THE LIMITED ACCESS R/W FENCE LINE AND PLACE DEVICES AS SHOWN.
- EXISTING DRAINAGE STRUCTURES WITHIN CONSTRUCTION LIMITS SHALL REMAIN.
- IN ACCORDANCE WITH FDOT SPECIFICATION 8-6.4, SPECIAL EVENT DAYS FOR THIS PROJECT:
  - SATURDAY OF AND THE SUNDAY AFTER THE UNIVERSITY OF FLORIDA HOME FOOTBALL GAMES.
  - THE FRIDAY BEFORE THROUGH THE SUNDAY AFTER THE UNIVERSITY OF FLORIDA HOMECOMING FOOTBALL GAME.
  - THE DAY BEFORE THROUGH THE DAY AFTER THE NHRA GATOR NATIONALS.
- END OF REEL SPLICES SHALL OCCUR AT A SPLICE VAULT THAT IS ADJACENT TO A LHUB. SPACING BETWEEN END OF REEL SPLICES SHALL BE NO LESS THAN 25,000 LF APART.
- VEGETATION SHALL BE REMOVED OR CUT BACK AS DIRECTED BY THE ENGINEER TO PROVIDE ADEQUATE SIGHT DISTANCE FOR ALL ITS DEVICE LOCATIONS. THE COST SHALL BE PAID FOR BY THE CLEARING AND GRUBBING PAY ITEM.
- ALL FIELD WIRING SHALL BE NEATLY BUNDLED AND CLEARLY IDENTIFIED WITH PERMANENT LEGIBLE, WEATHER PROOF TAGS THAT ARE SECURELY ATTACHED TO EACH CABLE. THE TAGGING SYSTEM PROPOSED SHALL BE SUBMITTED FOR APPROVAL WITH THE OTHER EQUIPMENT SUBMITTALS REQUIRED FOR THIS PROJECT. THE COST SHALL BE INCIDENTAL TO THE INSTALLATION OF THE FIBER OPTIC CABLE AND ITS DEVICES.
- CONTRACTOR MUST WEED EAT, MOW AND REMOVE LITTER AROUND EQUIPMENT STAGING AREAS UNTIL WORK HAS BEEN COMPLETED (I.E. POLES, CONDUIT RUNS, ETC.). THE CONTRACTOR SHALL MARK THIS AREA AND WILL BE EXPECTED TO MAINTAIN THE AREA IN ADDITION TO ANY OTHER AREAS THAT THE CONTRACTOR FEELS COULD BE IMPACTED BY MOWERS. THE CONTRACTOR SHALL PROPERLY MARK THESE AREAS (CONES OR STAKES WITH MARKING TAPE AROUND THE PERIMETER). THE PERIMETER SHALL CONSIST OF A 5' RADIUS AROUND ITS AND SERVICE POLES. IN ADDITION, A 5' STRIP SHALL BE MAINTAINED ON EACH SIDE OF CONDUIT AND TRENCHING RUNS.
- SOD MUST BE USED TO RESTORE ANY AREAS IMPACTED BY CONSTRUCTION. THE COST OF REQUIRED SOD SHALL BE INCIDENTAL TO THE PAY ITEMS.
- CONTRACTOR SHALL COORDINATE DIRECTLY WITH THE 430643-1 PROJECT CEI AND CONTRACTOR FOR ANY CONSTRUCTION WITHIN THE SHARED PROJECT LIMITS.

**CONDUIT:**

- HDPE CONDUIT COLOR CODES:
  - BACKBONE (2-1.25"):
    - ORANGE (FIBER & COMPOSITE IF REQUIRED)
    - ORANGE W/ WHITE STRIPE (TONE WIRE)
  - DROP CABLE (2-1.25"):
    - ORANGE (FIBER & COMPOSITE IF REQUIRED)
    - ORANGE W/ WHITE STRIPE (TONE WIRE)
  - POWER (2-1.25" OR LARGER) (SEE PLAN SHEETS SIZE MAY VARY):
    - RED
    - RED W/ WHITE STRIPE (SPARE)

**PULL BOXES:**

- ALL PULL BOX COVERS TO BE FURNISHED AND INSTALLED SHALL BE NON-METALLIC, UNLESS SPECIFIED OTHERWISE IN THE PLANS.
- ALL PULL AND SPLICE BOXES TO BE INSTALLED ADJACENT TO ITS POLES ON A SLOPE SHALL BE INSTALLED ON THE SIDE OF THE POLE WITH THE HIGHEST SLOPE.

**PAY ITEM NOTES:**

- 110-1-1 INCLUDES THE CUTTING AND/OR REMOVAL OF FALLEN TREES WITHIN THE CONDUIT INSTALLATION PATH.
- 630-2-11 SHALL INCLUDE THE CUTTING OF TREE ROOTS BELOW GRADE DURING UNDERGROUND CONDUIT INSTALLATION AT NO ADDITIONAL COST TO THE DEPARTMENT. THE AREAS WHERE UNDERGROUND TREE ROOT SYSTEMS ARE EXPECTED TO AFFECT TRENCHING ARE SHOWN IN THESE PLANS. OTHER LOCATIONS MAY INCLUDE UNDERGROUND TREE ROOT SYSTEMS THAT ARE NOT REFLECTED IN THESE PLANS.
- 630-2-12 SHALL INCLUDE ANY GUARDRAIL ADJUSTMENTS REQUIRED FOR DIRECTIONAL BORING.
- 633-3-15 SHALL INCLUDE A FIBER CABLE LONG ENOUGH TO TRANSITION FROM THE PATCH PANEL TO THE SPLICE VAULT INCLUDING 50 LF OF COILED SLACK IN ALL PULL BOXES AND SPLICE VAULTS; THE DROP CABLE FIBER IS PAID FOR SEPERATELY BUT MUST BE CONTINUOUS. THIS PAY ITEM ALSO INCLUDES FIBER OPTIC CABLE JUMPERS AS REQUIRED BY THE PLANS, EQUIPMENT, AND PATCH PANELS INSTALLED. THE CABLES SHALL BE SIZED TO LENGTH (3' MINIMUM).
- 633-3-16 TO PAY FOR FURNISHING AND INSTALLING FIELD TERMINATED PATCH PANELS. PATCH PANELS SHALL HAVE THE ABILITY TO STORE SPLICE TRAYS AS A PART OF THE PATCH PANEL. FACTORY TERMINATED SINGLE MODE PATCH CORDS SHALL BE INCIDENTAL TO THESE ITEMS. CONNECTORS SHALL BE AS REQUIRED BY THE EQUIPMENT AND PATCH PANELS INSTALLED. THE CABLES SHALL BE SIZED TO LENGTH (3' MINIMUM).
- 633-8-1 TO PAY FOR FURNISHING AND INSTALLING A MULTI-CONDUCTOR COMMUNICATIONS CABLE AS SPECIFIED BELOW:
  - CCTV CABLE
    - 1-CAT5E ETHERNET CABLE (FOR CCTV COMMUNICATIONS)
    - 2-AWG#14 (FOR CCTV POWER)
    - 1-DRAIN WIRE
  - MVDS CABLE (REMOTE)
    - 2-SINGLE MODE FIBERS (FOR MVDS COMMUNICATIONS)
    - 2-AWG#12 (FOR MVDS/MEDIA CONVERTER POWER/PORT SERVER POWER)
    - 1-DRAIN WIRE (FOR MVDS GROUND)
- 639-1-112 SHALL INCLUDE THE COST OF ALL COORDINATION WITH THE POWER COMPANY SERVICE PROVIDER INCLUDING PROPOSED POWER TRANSFORMERS AS REQUIRED PER THE PLANS.
- 641-2-19 SHALL INCLUDE THE FURNISHING AND INSTALLATION OF MAINTENANCE CONCRETE APRONS AS SHOWN IN THE PLANS.
- 660-3-12 TO PAY FOR INSTALLATION OF MICROWAVE VEHICLE DETECTION SYSTEM (MVDS) CAPABLE OF INDIVIDUAL NEGATIVE SPEED DETECTION. ALL MOUNTING HARDWARE, MVDS LOCAL COMPOSITE CABLES AND GROUNDING SHALL BE INCLUDED.
- 676-2-122 SHALL INCLUDE A CYBERLOCK ELECTRONIC LOCK MECHANISM COMPATIBLE WITH THE EXISTING DEPARTMENT LOCK SYSTEM, RGS CONDUITS TO THE BOTTOM OF THE CABINET FOR COMMUNICATION/POWER, ALL REQUIRED CABLE MANagements DUCTS, AND A CABINET IDENTIFICATION TAG.
- 676-3-10 TO PAY FOR FURNISHING AND INSTALLING A SPECIAL ITS ENCLOSURE (NEMA 4R) AS INDICATED ON THE PLANS. THE ENCLOSURE SHALL INCLUDE A CYBERLOCK ELECTRONIC LOCK MECHANISM COMPATIBLE WITH THE EXISTING DEPARTMENT ELECTRONIC LOCK SYSTEM. THIS SHALL ALSO PAY FOR FURNISHING, INSTALLING, AND GROUNDING OF THE RGS CONDUITS FROM THE PROPOSED UNDERGROUND CONDUIT TO THE BOTTOM OF THE ENCLOSURE FOR COMMUNICATION/POWER.
- 684-1-1 TO PAY FOR FURNISHING AND INSTALLING A LOCAL HUB ETHERNET SWITCH WITH MEETING THE PROJECT TECHNICAL SPECIAL PROVISIONS.
- 684-5-1 TO PAY FOR FURNISHING AND INSTALLING OF A RS-485 TO SINGLEMODE FIBER MEDIA CONVERTER AS INDICATED ON THE PLANS.
- 684-7 TO PAY FOR THE FURNISHING AND INSTALLATION OF A MASTER HUB ETHERNET SWITCH MEETING THE PROJECT TECHNICAL SPECIAL PROVISIONS.
- 685-106 TO PAY FOR AN ALPHA TECHNOLOGIES UPS MODEL FXM 650.

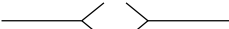

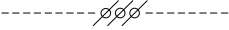

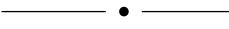

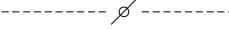


















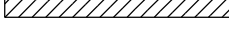







**UTILITY NOTES:**

- THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE DESIGNATED Vv, Vh, AND Vvh) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.
- EXISTING UTILITIES ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING FDOT OWNED UTILITIES AND FACILITIES INCLUDING BUT NOT LIMITED TO UNDERGROUND LIGHTING AND DRAINAGE STRUCTURES PRIOR TO DIGGING.
- UTILITY/AGENCIES OWNERS:

	COMPANY	PHONE
1	ALACHUA COUNTY-HIGHWAY LIGHTING	352-381-4300
2	AT&T DISTURBUTION	352-489-9867
3	CENTURYLINK-OCALA	352-368-8763
4	CITY OF OCALA, WATER AND SEWER DEPARTMENT	352-351-6775
5	CLAY ELECTRIC GAINESVILLE DISTRICT	352-473-8000 EXT. 8319
6	COX CABLE-MARION	352-873-5631
7	DUKE ENERGY-DISTRIBUTION	407-942-9640
8	DUKE ENERGY-FIBER	727-820-5208
9	DUKE ENERGY-TRANSMISSION	813-909-1210
10	FLA. GAS TRANS.-SILVERSPRINGS	407-838-7171
11	MARION COUNTY UTILITIES	352-671-8540
12	TECO PEOPLE GAS-OCALA	352-401-3403
13	WINDSTREAM FLORIDA, INC.	386-462-6530

REVISIONS				METRIC ENGINEERING, INC. ROBERT MASTASCUSA, P.E. # 66600 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.  PROJECT NOTES  IT-18
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
06/08/15	△ MODIFIED PAY ITEM NOTE 10 & 11. ADDED PAY ITEM NOTE 15.				SR 93	MARION	428213-2-52-02	

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

	PROPOSED DIRECTIONAL BORE		PROPOSED TYPE II SERVICE POLE
	EXISTING DIRECTIONAL BORE		PROPOSED ITS POLE WITHOUT LOWERING DEVICE
	PROPOSED TRENCH		EXISTING ITS POLE
	EXISTING UNDERGROUND CONDUIT		EXISTING POWER POLE
	PROPOSED POLE MOUNT CABINET		PROPOSED ELECTRICAL PULL BOX
	EXISTING POLE MOUNT CABINET		EXISTING ELECTRICAL PULL BOX
	PROPOSED NEMA CABINET		PROPOSED FIBER PULL BOX
	EXISTING NEMA CABINET		EXISTING FIBER PULL BOX
	PROPOSED CCTV		PROPOSED SPLICE VAULT
	EXISTING CCTV		EXISTING SPLICE VAULT
	PROPOSED MVDS		EXISTING SINGLE POST SIGN
	EXISTING MVDS		EXISTING MULTI-POST SIGN
	MVDS DETECTION ZONE		TRENCH AREAS WITH POTENTIAL UNDERGROUND ROOT SYSTEMS
	EXISTING TOWER EQUIPMENT SHELTER		CLEAR AND GRUBBING AREA
	POSSIBLE FUTURE DMS LOCATION		UNDISTURBED 5' BUFFER FOR WETLANDS
			EXISTING WETLAND LIMITS
			TOPHER TORTOISE BURROW
			EXISTING TOWER

**ABBREVIATIONS**

EOTL	- EDGE OF TRAVEL LANE
FOGR	- FACE OF GUARDRAIL
LHUB	- LOCAL HUB
MVDS	- MICROWAVE VEHICLE DETECTION SYSTEM
SM	- SINGLE MODE
TRANSM	- TRANSMISSION

**NOTE:**

SYMBOLS ARE NOT TO SCALE IN THE PLAN SET. USE THE DIMENSIONS SHOWN IN THESE PLANS AND SPECIFICATIONS WHEN LAYING OUT THE PROJECT.

<b>REVISIONS</b>				METRIC ENGINEERING, INC. ROBERT MASTASCUSA, P.E. # 66600 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>PROJECT NOTES</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		IT-19
					SR 93	MARION	428213-2-52-02		