



ELECTRIC DEPARTMENT

Significant activities for the month of October 2020

- 6 Streetlights repaired
- 2 Permanent meters installed
- 3 Temporary meters installed
- 1 Reverse meter installed
- 5 New Poles installed
- 3 Poles replaced
- 2 Voltage check
- 8 Utility Verifications
- 1 Surge suppressor inspected

In addition to the activities listed above, the Electric Department also:

- Conducted daily morning safety meetings.
- Conducted daily truck inspections.
- Trimmed limbs and vines from power lines and poles.
- Unloaded transformers and supplies when they come in.
- Inspect/locate ROW permits.
- Conduct warehouse inventory/order supplies
- Magnolia Ave. & Bay St., removed LA's on cross arm and replaced steel L bracket with fiberglass.
- 201 Ferris St., pole on fire no electric issue.
- 4169 CR 15A., disconnected transformer for repairs.
- 410 Palm St., removed power to location for repairs.
- 1325 Energy Cove Ct., installed conduit and pad-mount.
- 1509 Elsie St., removed low hanging wire by the mailboxes.
- Spring Park., moved temporary pole for Christmas lights.
- 215 Magnolia St., installed LA and bird wire.
- Palmetto Ave, & Oak St., installed three fault indicators.
- 623 Oak St., changed out switch, 9kv arrestors and steel brackets to fiberglass.
- Magnolia Ave & Cove St., remove two LA's on cross arm on B and C phase.
- 903 St Johns Ave., removed tree limbs from lines.
- 1705 Elsie St., installed hand hole on lot line and run URD.
- 1435 S Orange Ave. re-feed three phase pad-mount transformer from new line behind building.
- 900 St Johns Ave., straightened pole, backfilled and tamped it.
- 1289 Harbor Rd., changed out three phase pad-mount for water well.
- 840 Cooks Ln., set switch gear and terminate URD.

During the month of October, the Electric Department responded to the following outages:

10/03/2020 – Between 9:50 a.m. – 11:30 a.m., 531 Magnolia Ave., squirrel cause power outage, 20 customers affected.

10/13/2020 – Between 11:30 p.m. – 3:00 a.m., 1009 Bunker Ave., blown lateral fuse, cause unknown, 3 customers affected.

10/19/2020 – Between 4:19 p.m. – 5:00 p.m., 1334 River Rd., lighting strike damage 3 transformers, 10 customers affected.

10/23/2020 – Between 5:00 p.m. – 5:45 p.m., 1517 Ball Rd., tree limb on B phase blown lateral fuse, 1 customer affected.

10/25/2020 – Between 10:00 p.m. – 11:30 a.m., 3323 River Rd., squirrel blown transformer fuse, 2 customers affected.

Electric Utility Top Consumption Customers (kwh/meter) for October:

<u>NAME</u>	<u>SERVICE ADDRESS</u>	<u>KWH</u>	<u>AMOUNT</u>
Clay County Jail	901 N. Orange Ave.	348,800	\$31,269.20
St. Johns Landing	1408 N. Orange Ave.	276,860	\$28,289.72
BD Of County Commissioner	825 N. Orange Ave.	265,200	\$23,901.80
Winn Dixie Stores, Inc	3260 Hwy. 17 N.	207,400	\$18,988.00
Kindred Health	801 Oak St.	203,400	\$18,110.00
National Gypsum Company	1767 Wildwood Rd.	154,880	\$14,154.80
Clay County Court House	825 N. Orange Ave.	151,360	\$13,292.40
BD Of Public Instruction	2025 State Road 16	133,600	\$14,303.60
Tamko Roofing Products	914 Hall Park Rd.	115,200	\$11,546.00
Governors Creek #436	803 Oak St.	104,800	\$ 9,780.00
Clay County Driver's License	477 Houston St.	93,440	\$ 9,111.60
Garber Realty/GMC	3340 Highway 17	86,080	\$ 8,546.00
VAC-CON	954 Hall Park Rd.	66,640	\$ 5,742.80
City of Green Cove Springs	Set Street Lights	66,392	\$ 6,983.16
City of Green Cove Springs	1277 Harbor Road	64,480	\$ 5,742.80
Pegasus Technologies	932 Pilot Dr.	61,080	\$ 6,201.80
Board of Public Instruction	1 N Oakridge Ave.	59,280	\$ 7,331.60
Coral Ridge Foods	1165 N Orange Ave.	57,680	\$ 5,470.80
BD Of Public Instruction	801 Center St.	57,120	\$ 6,020.40
Board of Public Instruction	Clay High School	47,760	\$ 5,610.80
City of Green Cove Springs	925 S R 16 East South Wwtp	46,240	\$ 4,272.80
Direct TV/AT&T Services Inc.	512 Center St.	45,920	\$ 4,282.80
Board of Public Instruction	1220 Bonaventure Ave.	45,280	\$ 4,778.80

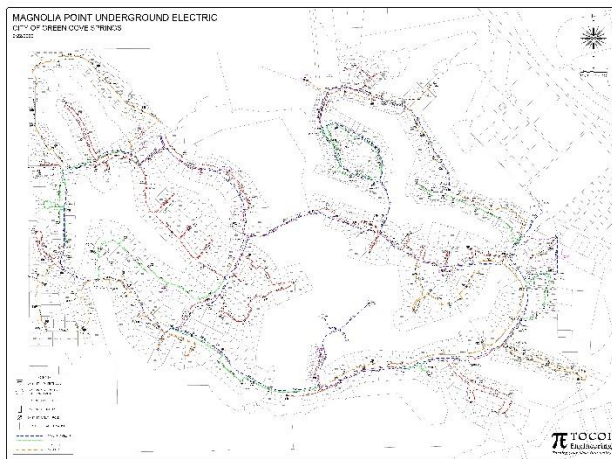
Electric Utility Department Capital Projects:

Pole top switch replacement

This project began 09-18-2019 with the installation of switches at Governors Creek for restoration plan if isolation of north feeder across Governors Creek Bridge during extreme emergencies. Project is now in the inspection and evaluation process involving Chapman 2 extension to Harbor Rd and load transfer of Chapman 1 to Chapman 2.

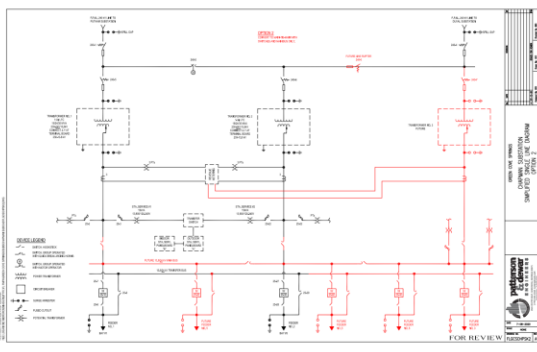
Magnolia Point Reconductor

The City has provided survey and equipment rating information to Toco Engineering. The project is 100% designed. The backbone switchgear and wire have been ordered and received. Work is expected to start in January 2021 with completion by Winter 2021. Work will be completed by City crews with support from contractors as necessary.



Chapman Substation upgrade

Patterson and Dewar is the City's engineering firm for this project. The transformer has been specified and ordered. Patterson and Dewar is designing the rest of the improvements to the substation as well as SCADA to be installed throughout the system. Design is approximately 85% complete. There are three other material bids currently advertised with one more material bid and the actual construction contractor bid to follow in early November. Construction is anticipated to start in January 2021 with the project coming online in July 2021.



Chapman 3RD Circuit

IRBY Construction began September 21, 2020 with an expected completion date of January 31, 2020. The construction is approximately 35% complete.



Chapman 1 / Chapman 2

Express circuit feed project of Chapman 1 to north of Governors Creek (a.k.a. **Magnolia Point Third Feed**) and Chapman 2 extension to Harbor Rd project have been combined to balance future load requirements north of Governors Creek and to supply additional restoration procedure options involving electric outages north of Governors Creek. Conductor had been installed on Roberts St. for Chapman 1 alternate path. City crews are now working on additional new line on south right of way that will enable Reynolds Park load to be transferred from Chapman 1 circuit to Chapman 2. Materials for this portion of the project are being funded by a DEO Grant.

Houston St. re-conductor

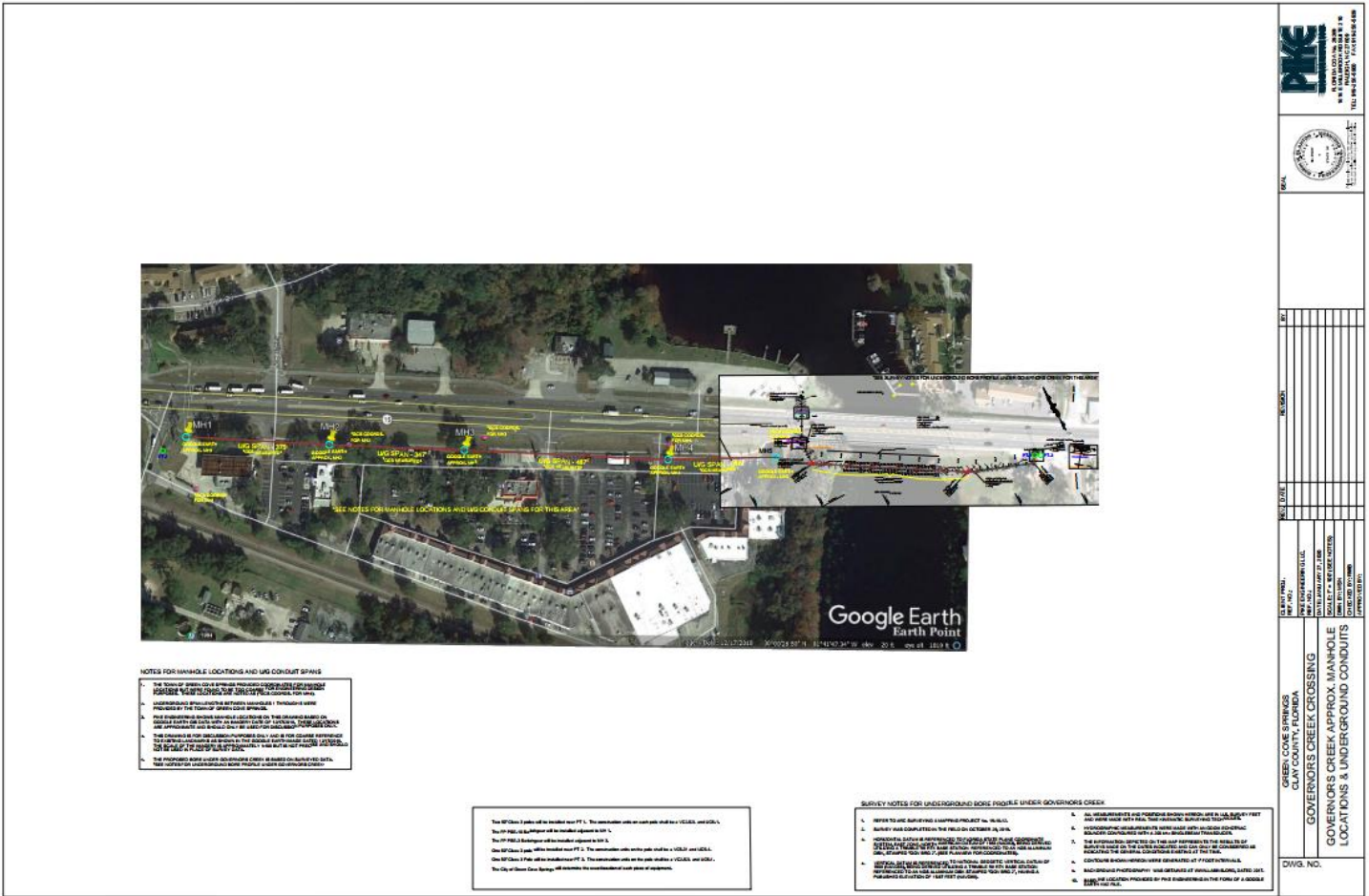
Planning for the re-conductoring of Chapman 2 with 477 AAC from Martin Luther King Blvd. to Palmetto Ave. has begun. This will support a second circuit extending north of Governors Creek for restoration involving Magnolia Point, provide an alternate tie between Chapman 1 and Chapman 2 (was not possible before due to conductor size) and support AMMCON, PASS and other future expansion north of Governors Creek. Materials for this project are being funded by a DEO Grant.

13kV to 23kv Conversion – US17 from Harbor Road to CR 315

Planning for this project has begun. This project will continue the Chapman 1 and Chapman 2 circuits north of Harbor Road to provide capacity and reliability for existing and future customers north of Governors Creek. Materials for this project are being funded by a DEO Grant.

Governors Creek Hardening Project

This project will allow the overhead conductor crossing Governors Creek to be placed underground from Grove Street to Harbor Road. This project has been split into two phases; (1) design and permitting and (2) construction. It is being 75% funded by a FEMA HMGP grant. Phase 1 is complete. The project is now being evaluated by FDEM and FEMA funding for the construction phase. Once funding is in place and a contract is executed, bidding and construction should take approximately 9 months. This project will also support to extension of Chapman 1 and Chapman 2 circuits north of Governors Creek to provide additional capacity and reliability for all customers north of Governors Creek.



North and South Substation Improvements

North and South substation sub-station upgrades have begun with directional bore designs completed to install URD 23KV feeds to substation transformers eliminating the possibility of catastrophic failure in the event of lightning or material failure which could cause conductor to fall into existing bus work.

PROJECT NO.: SHEET NO.: DATE: DRAWN BY: CHECKED BY: APPROVED BY:	
PROJECT TITLE: GREEN COVE SPRINGS GOVERNORS CREEK CROSSING GOVERNORS CREEK APPROX. MANHOLE LOCATIONS & UNDERGROUND CONDUITS	DWSG NO.: