



ELECTRIC DEPARTMENT

Significant activities for the month of August 2022

- 8 Streetlights repaired
- 1 Streetlight removed
- 2 Temporary meter installed
- 9 Meters inspected
- 2 Permanent meters installed
- 4 Poles replaced
- 2 Pole removed
- 6 Voltage check
- 2 Surge suppressors installed

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.
- 604 Walnut St., re-energized transformer after installing main breaker.
- 733 N Palmetto Ave., worked with the County moved parking lot lights and meter to new pole.
- 825 N Orange Ave., change out power feed to new pole.
- 477 Houston St., removed riser shield and old overhead service.
- 1425 S Orange Ave., label and add warning stickers to single phase pad-mount.
- 3257 US 1, removed service for demolition.
- 1282 Energy Cove Ct., label 3 phase pad-mount transformer with address, warnings, and voltages.
- Harbor Rd., (substation) performed switching for ABB breaker.
- Reynolds Blvd & Bunker Ave., replaced cross arm and install B phase on pole top pin.
- 1271 Energy Cove., change out single phase 240V meter to 120/208V single phase 5 jaw meter for accuracy.
- 1200 Idlewild Ave., car broke concrete pole and streetlight, made repairs.
- 3764 Constancia Dr., remove lifting bolts from transformer.

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

08/02/2022 – Between 9:00 p.m. – 2:00 a.m., 1615 Elsie St., tree limb damage service replaced transformer, 1 customer affected.

08/03/2022 – Between 6:45 a.m. – 8:30 a.m., 1517 Ball Rd., tree felt on power line, 1 customers affected.

08/05/2022 – Between 3:00 p.m. – 5:15 p.m., 319 S Pine Ave., truck took down the power line, 1 customer affected.

08/10/2022 – Between 9:00 a.m. – 10:30 a.m., 3222 Hwy 17, blown transformer fuse repaired, 1 customer affected.

08/16/2022 – Between 10:32 a.m. – 4:00 p.m., 130 Governors St., bad pad-mount transformer replaced, 20 customers affected.

08/17/2022 – Between 6:30 a.m. – 8:30 a.m., 851 Bulkhead Rd., breaker out due to lightning , 1 customer affected.

08/20/2022 – Between 7:30 a.m. – 9:40 a.m., 914 N Orange Ave., due to lightning we changed out LA and switch , 3 customers affected.

08/22/2022 – Between 3:11 p.m. – 3:38 p.m., 516 Lamont St ., blown fuse due to lightning, 4 customers affected.

08/23/2022 – Between 12:00 a.m. – 3:20 a.m., 1267 Ivey Ln., tree limb broke wire repaired 3 spans of primary, 6 customers affected.

08/27/2022 – Between 7:30 a.m. – 9:30 a.m., 1608 Lucas Ave., tree limb broke primary and blew fuse, 4 customers affected.

08/27/2022 – Between 11:20 a.m. – 1:15 p.m., Bay St & Cypress Ave., re-fused lateral, 25 customers affected.

08/29/2022 – Between 2:30 p.m. – 2:45 p.m., 1119 Spring St., transformer when out due to lightning refused transformer., 6 customers affected.

08/29/2022 – Between 4:38 p.m. – 8:00 p.m., 1510 – 1512 Spruce St., truck tore down service, 4 customers affected.

08/29/2022 – Between 4:57 p.m. – 5:45 p.m., 1500 Green Cove Ave., tree limb took out the house service, 1 customer affected.

08/31/2022 – Between 5:45 a.m. – 7:45 a.m., 3360 U.S. 17 , blown lateral fuse due to tree branch, 3 customers affected.

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

<u>NAME</u>	<u>SERVICE ADDRESS</u>	<u>KWH</u>	<u>AMOUNT</u>
Clay County Jail	901 N. Orange Ave.	324,8000	\$48,860.40
St. Johns Landing	1408 N. Orange Ave.	318,770	\$ 52,009.51
BD Of County Commissioner	825 N. Orange Ave.	210,000	\$ 32,707.00
Kindred Health	801 Oak St.	195,600	\$ 29,711.60
Winn Dixie Stores, Inc	3260 Hwy. 17 N.	193,600	\$ 29,490.60
Permabase Building Products	1767 Wildwood Rd	163,520	\$ 24,682.32
Clay County Court House	825 N. Orange Ave.	122,560	\$ 18,635.76
BD Of Public Instruction	2025 State Road 16	118,200	\$ 19,763.20
Governors Creek #436	803 Oak St.	107,600	\$ 16,621.60
Clay Port Inc.	972 Bulkhead Rd (meter B)	83,400	\$ 12,834.00
City of Green Cove Springs	1277 Harbor Road	82,800	\$ 12,167.60
Tamko Roofing Products	914 Hall Park Rd.	79,680	\$ 13,660.88
BD Of Public Instruction	801 Center St.	77,280	\$ 12,219.28
Clay County Driver's License	477 Houston St.	73,440	\$ 11,819.44
BD Of Public Instruction	608 Mill St.	66,640	\$ 10,527.44
City of Green Cove Springs	Set Street Lights	66,392	\$ 11,033.07
Coral Ridge Foods	1165 N Orange Ave.	65,280	\$ 10,043.28
Garber Realty/GMC	3340 Highway 17	64,320	\$ 10,483.92
Pegasus Technologies	932 Pilot Dr.	63,960	\$ 10,094.96
BD Of Public Instruction	1 N Oakridge Ave	61,200	\$ 4,590.00
VAC-CON	954 Hall Park Rd.	60,720	\$ 9,661.12
AMMCON CORP	1503 CR 315 Ste 201	50,100	\$ 8,419.10
Direct TV/ATT Services Inc.	512 Center St.	49,920	\$ 7,641.52
Green Cove Springs Marina	Pier 11 & 1	48,960	\$ 7,558.56

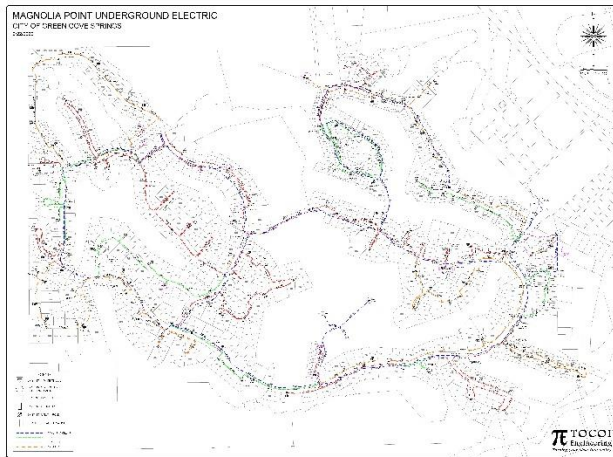
Electric Utility Department Capital Projects:

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.

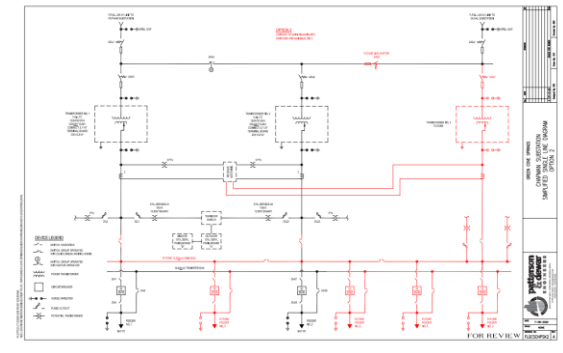
Magnolia Point Reconductor

This project has been reviewed by our new Electric Director and a local contractor and revised. The project will now focus on a brand new 3-phase backbone “ring” through the development with two feeds. This ring will be constructed as phase 1 utilizing a standing contract to bore in new 6” conduit for the entire ring and utilizing a contractor to pull in the new conductor and tie into the existing side roads along the way. The re-design is now completed by our engineer. Conduit and Conductor has been received for phase I and work has begun. Work started on October 11, 2021 and was completed on September 21, 2022. **Project is now complete**



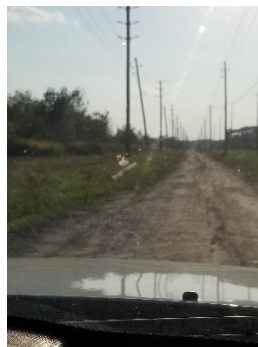
Chapman Substation upgrade

Patterson & Dewar is the City’s engineering firm for this project. The transformer is now energized with load on it, and we are now in the final stages of installing the new SCADA system on the older transformers. Patterson & Dewar have designed the rest of the improvements to the substation as well as SCADA to be installed throughout the system. Design is complete. The construction was awarded to Terry’s Electric. They arrived on site the first week of January 2021 to begin work at the substation. The substation work is complete, and we are working with Patterson & Dewar to finish up the last testing of the SCADA system before going live. The project should be complete by the end of September 2022.



Chapman 3RD Circuit

IRBY Construction began September 21, 2020, and the **PROJECT IS NOW 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. **PROJECT IS NOW COMPLETE.**

Houston St. re-conductor

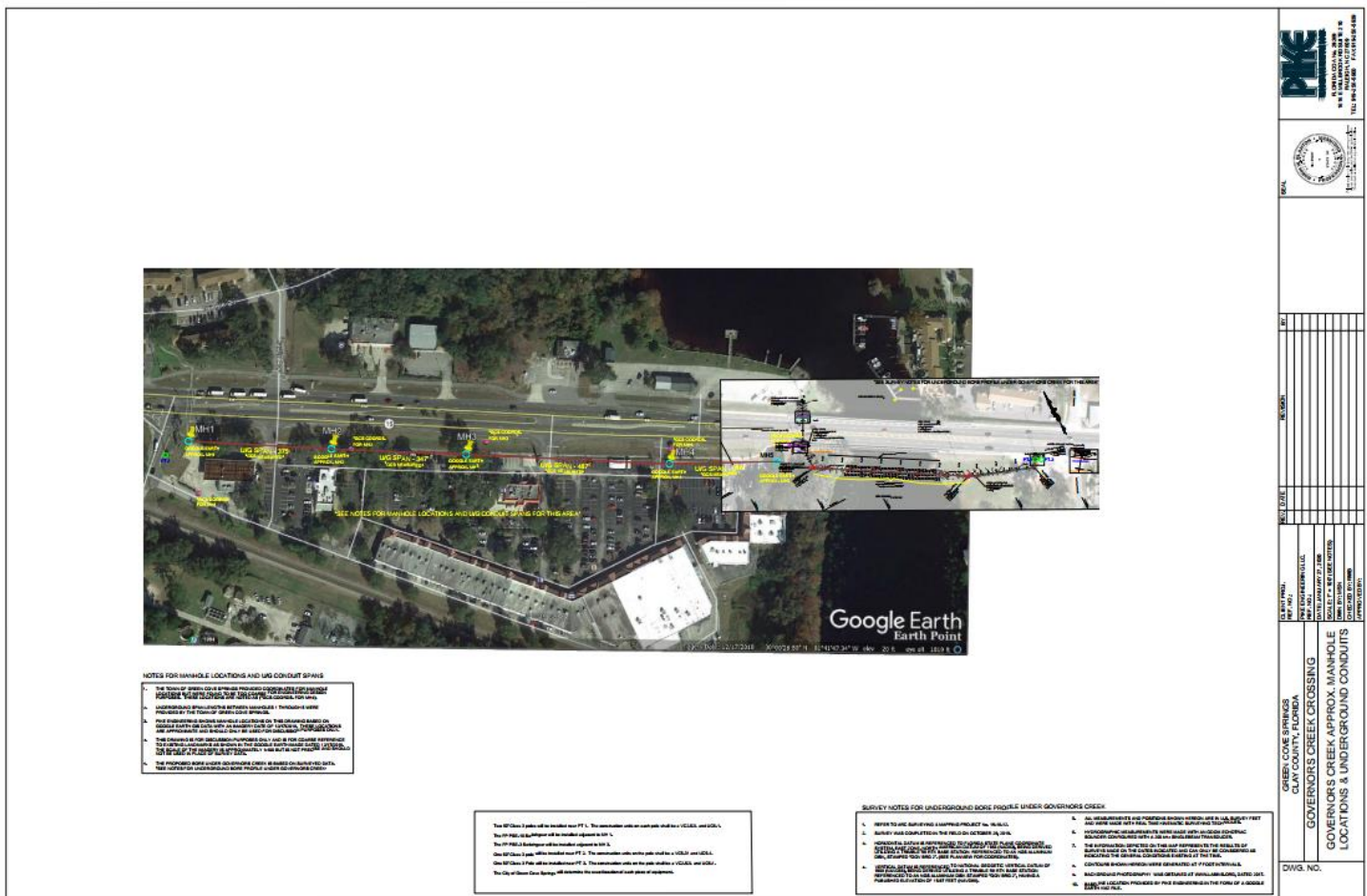
Planning for the reconductoring of Chapman 2 with 477 AAC from Martin Luther King Blvd. to Palmetto Ave. has begun. This will support a second circuit extending north of Governors Creek for restoration involving Magnolia Point, provide an alternate tie between Chapman 1 and Chapman 2 (was not possible 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. **PROJECT IS NOW COMPLETE.**

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. Materials have started arriving and we are installing the material as it arrives.

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.