



## **ELECTRIC DEPARTMENT**

### **Significant activities for the month of August 2021**

- 10 Streetlights repaired
- 5 Permanent meters installed
- 2 Reverse solar meter installed
- 1 Meter inspected
- 1 Meter replaced
- 7 Poles removed
- 10 Voltage check
- 1 Surge suppressor 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.
- 613 N Magnolia., rise wire at weather-head.
- 541 N Palmetto Ave., reconnected power after building inspection.
- 1134 Houston St., connected new service for comcast, and disconnected old service.
- 232 Walnut St., securely fasten riser guard to the pole.
- 328 Ferris St., de-energized pot bank for repairs and re-energized.
- Chapman Substation., changed out 4/0 of cooper wire.
- 337 Cooks Ln., helped installed antenna at the lift station.
- City wide, installed 8 SCADA system boxes at 8 reclosures locations.
- 3408 Hwy 17, removed service for the fire department.
- 207 S Highland Ave., removed tree on service wires.
- 901 N Orange Ave., part power at the jail, re-fuse transformer.

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

08/02/2021 – Between 6:15 a.m. – 7:05 a.m., 1405 Heath Rd., transformer blown fuse, 1 customer affected.

08/2/2021 – Between 2:00 p.m. – 4:00 p.m., 840 St Johns Ave., vegetation in transformer blown fuse, 4 customer affected.

08/08/2021 – Between 8:00 p.m. – 10:45 p.m., Olive Circle, re-fuse and reset breakers at substation, 25 customers affected.

08/08/2021 – Between 9:30 p.m. – 11:28 p.m., Roslyn Ave., transformer went bad, it was replaced, 2 customers affected.

08/08/2021 – Between 8:00 a.m. – 12:00 p.m., 503 Highland Ave., , replaced transformer 6 customers affected.

08/08/2021 – Between 7:30 p.m. – 8:00 p.m., 512 Highland Ave., replaced transformer fuse, 3 customers affected.

08/9/2021 – Between 7:30 a.m. – 8:00 a.m., 512 Highland Ave., replaced transformer, 6 customers affected.

08/10/2021 – Between 7:15 p.m. – 8:45 p.m., 1504 Thomas St. & 608 Highland Ave., blown fuses replaced in overhead transformer, 6 customers affected.

08/17/2021 – Between 8:45 a.m. – 9:20 a.m., 1304 N Orange Ave., bird had blown 2 cutout fuses, 10 customers affected.

08/22/2021 – Between 9:10 p.m. – 10:50 p.m., 1462 River Ln., blown lateral fuse replaced, 6 customers affected.

08/25/2021 – Between 1:30 a.m. – 3:00 a.m., 501 St Johns Ave., removed tree limb from wires, 30 customers affected.

08/25/2021 – Between 5:30 p.m. – 6:30 p.m., 1504 Thomas St, blown transformer 25 KVA upgraded to 50 KVA, 4 customers affected.

08/28/2021 – Between 1:15 p.m. – 4:15 p.m., Chapman Substation, B phase eye bolt and riser pole burnt up, 2,500 customers affected.

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

<b><u>NAME</u></b>	<b><u>SERVICE ADDRESS</u></b>	<b><u>KWH</u></b>	<b><u>AMOUNT</u></b>
Clay County Jail	901 N. Orange Ave.	358,240	\$33,890.80
St. Johns Landing	1408 N. Orange Ave.	314,960	\$33,750.72
BD Of County Commissioner	825 N. Orange Ave.	258,400	\$24,751.00
Winn Dixie Stores, Inc	3260 Hwy. 17 N.	209,000	\$19,966.00
Kindred Health	801 Oak St.	195,200	\$18,590.00
National Gypsum Company	1767 Wildwood Rd	142,400	\$13,631.60
BD Of Public Instruction	2025 State Road 16	131,000	\$13,641.00
Tamko Roofing Products	914 Hall Park Rd.	116,800	\$13,501.20
Clay County Court House	825 N. Orange Ave.	115,200	\$11,319.60
Governors Creek #436	803 Oak St.	106,400	\$10,500.00
Clay County Driver's License	477 Houston St.	87,520	\$ 8,955.60
City of Green Cove Springs	1277 Harbor Road	77,440	\$ 7,102.00
BD Of Public Instruction	801 Center St.	72,320	\$ 7,440.40
Garber Realty/GMC	3340 Highway 17	68,480	\$ 7,038.00
City of Green Cove Springs	Set Street Lights	66,392	\$ 7,315.12
Coral Ridge Foods	1165 N Orange Ave.	63,840	\$ 6,299.60
VAC-CON	954 Hall Park Rd.	63,600	\$ 6,559.20
Clay Port, Inc.	972 Bulkhead Rd	58,720	\$ 5,932.64
BD Of Public Instruction	1 N Oakridge Ave	56,880	\$ 6,273.20
Pegasus Technologies	932 Pilot Dr.	56,280	\$ 6,011.00
Direct TV/AT&T Services Inc.	512 Center St.	55,840	\$ 5,360.40
BD Of Public Instruction	608 Mill St.	55,360	\$ 5,750.40
City of Green Cove Springs	925 S R 16 East South Wwtp	50,800	\$ 4,902.80
BD Of Public Instruction	1220 Bonaventure Ave.	48,800	\$ 4,946.80

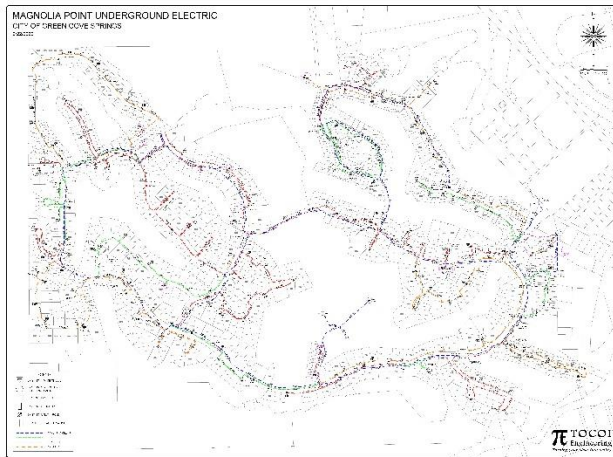
## **Electric Utility Department Capital Projects:**

### **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.

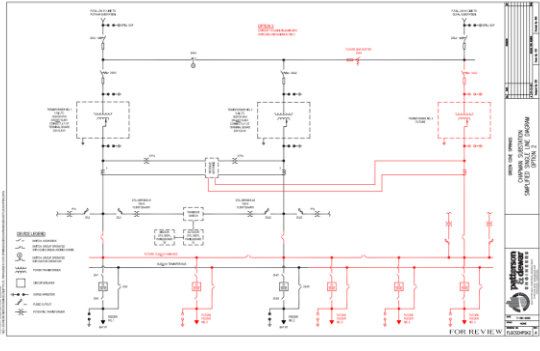
### **Magnolia Point Reconductor**

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 feeds along the way. The re-design is now completed by our engineer. Conduit has been received and we are now waiting for the conductor for phase I to arrive (expected very soon). Work is expected to start in September 2021 with completion by Summer 2022.



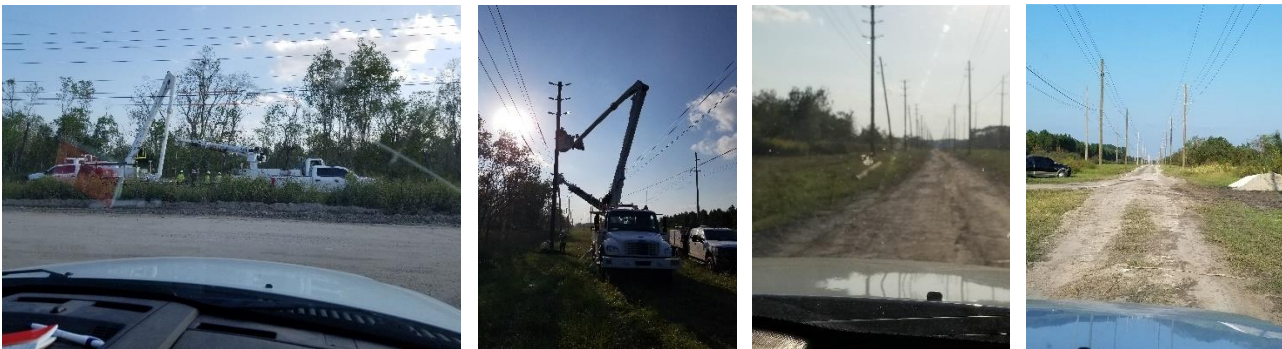
### **Chapman Substation upgrade**

Patterson and Dewar is the City’s engineering firm for this project. The transformer is now energized with load on it and we have started working on installing the new SCADA system on the older transformers. Patterson and 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 project should be complete in October 2021.



### Chapman 3<sup>RD</sup> 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

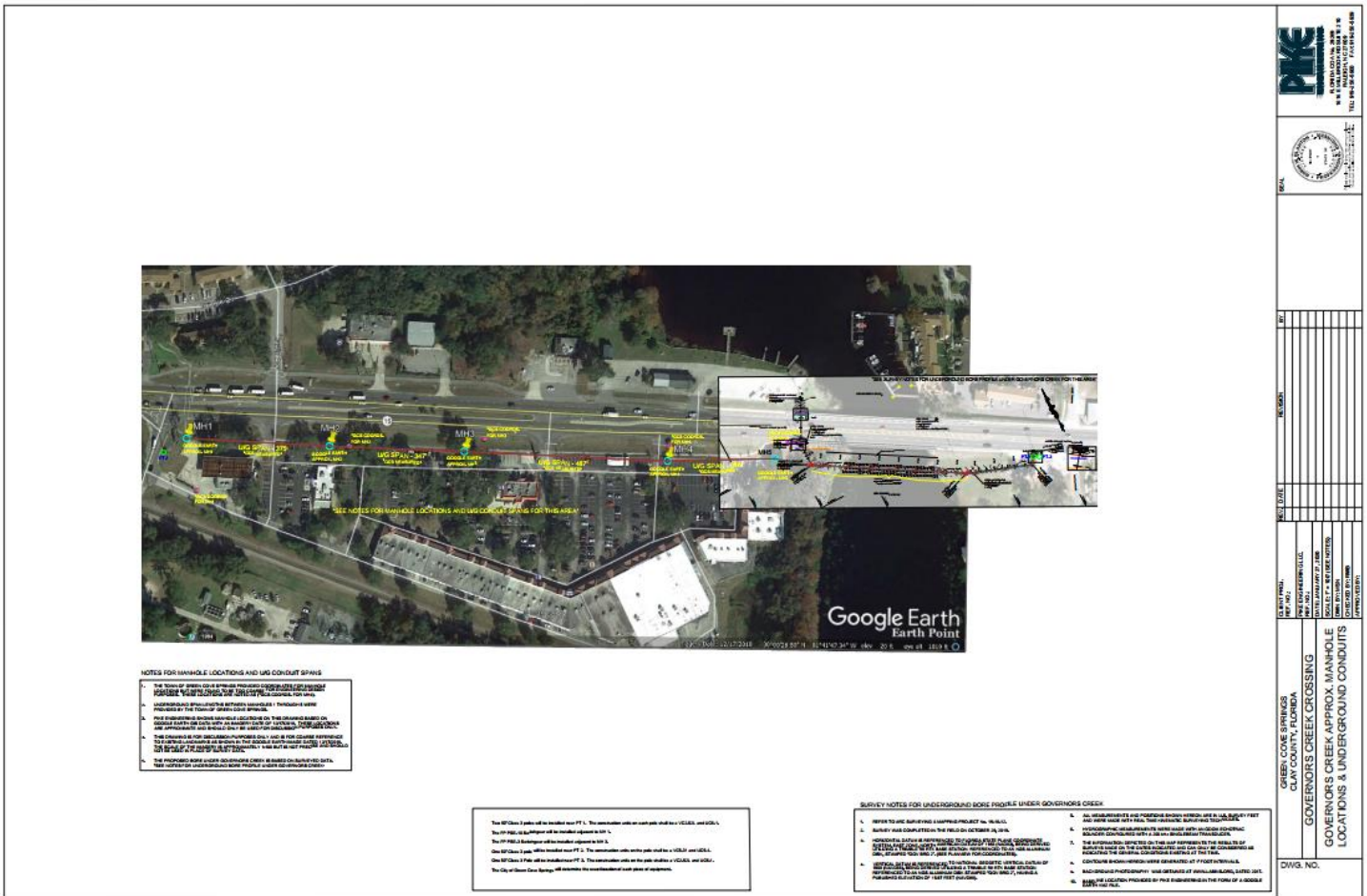
Planning for the reconductoring of Chapman 2 with 477 AAC from Martin Luther King Blvd. to Palmetto Ave. has begun. This will support a second circuit extending north of Governors Creek for restoration involving Magnolia Point, provide an alternate tie between Chapman 1 and Chapman 2 (was not possible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

# 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.