



## **ELECTRIC DEPARTMENT**

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

- 21 Streetlights repaired
- 1 Night light removed
- 22 Permanent meters installed
- 4 Temporary meters installed
- 2 Meter checks
- 3 Poles installed
- 2 Voltage check
- 5 Utility Verifications

### **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
- US 17 & State Rd 16, removed Christmas lights.
- Martin L. King Jr. Blvd. & Walnut St., removed Christmas lights.
- 806 Oak St., opened transformer for electrician.
- 4341 S Oakridge Ave., switch feeder for contractor.
- 1315 Energy Cove Ct., Installed CT wiring for new service.
- 5 Esplanade Ave., wire down, set wire back up.
- 963 Worthington Ave., replaced JD bell insulators with polymer insulators.
- SR23 Express Way, switch chapman feeder 1 to feeder 3 to installed new wire.
- 806 Oak St., De-energize transformer to install of switch gear on secondary side of transformer.
- Chapman Substation, clean out building to installed new relay panel.
- 232 Walnut St., changed out transformer that was leaking oil.
- 1009 Bunker Ave., car fire next to the pole, standby for safety, pole smoke but ok.
- 1614 Julia St., pulled new triplex made up both ends for new service.
- 1289 Harbor Rd., pick up 7 LED light poles and fixtures and deliver to 900 Gum St.

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

01/09/2021 – Between 7:00 a.m. – 9:30 a.m., 920 Bay St., splice burnt out, 1 customer affected.

01/17/2021 – Between 9:05 a.m. – 10:15 a.m., 1217 Spruce St., blown transformer fuse was replaced, 16 customers affected.

01/19/2021 – Between 5:00 p.m. – 5:30 p.m., 3231 River Rd., blown transformer fuse by squirrel, 2 customers affected.

01/28/2021 – Between 6:30 p.m. – 8:30 p.m., 1369 Riviera RD., blown fuse was replaced, 4 customers affected.

01/31/2021 – Between 9:00 a.m. – 11:00 a.m., 1465 River Ln, blown transformer fuse by squirrel, 6 customers affected.

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

<b><u>NAME</u></b>	<b><u>SERVICE ADDRESS</u></b>	<b><u>KWH</u></b>	<b><u>AMOUNT</u></b>
St. Johns Landing	1408 N. Orange Ave.	299,720	\$30,022.00
Clay County Jail	901 N. Orange Ave.	249,760	\$22,403.28
BD Of County Commissioner	825 N. Orange Ave.	227,800	\$20,164.40
Kindred Health	801 Oak St.	182,800	\$16,318.40
Winn Dixie Stores, Inc	3260 Hwy. 17 N.	154,600	\$14,616.80
Clay County Court House	825 N. Orange Ave.	116,800	\$10,575.60
National Gypsum Company	1767 Wildwood Rd.	113,600	\$10,355.60
Tamko Roofing Products	914 Hall Park Rd.	112,000	\$11,054.80
Governors Creek #436	803 Oak St.	100,000	\$ 9,968.00
Garber Realty/GMC	3340 Highway 17	76,960	\$ 7,708.08
BD Of Public Instruction	2025 State Road 16	74,400	\$ 8,507.20
City of Green Cove Springs	1277 Harbor Road	72,000	\$ 6,162.80
City of Green Cove Springs	Set Street Lights	66,392	\$ 6,850.37
Clay County Driver's License	477 Houston St.	61,120	\$ 5,966.96
VAC-CON	954 Hall Park Rd.	60,640	\$ 5,755.12
Green Cove Springs Marina	Pier # 11 & 1	42,240	\$ 3,813.52
City of Green Cove Springs	925 S R 16 East South Wwtp	50,320	\$ 4,586.96
Coral Ridge Foods	1165 N Orange Ave.	49,520	\$ 4,610.16
Pegasus Technologies	932 Pilot Dr.	47,760	\$ 4,627.88
BD Of Public Instruction	801 Center St.	42,880	\$ 4,812.24
Direct TV/AT&T Services Inc.	512 Center St.	42,560	\$ 3,823.28
BD Of Public Instruction	Clay High School	37,400	\$ 8,507.20
BD Of Public Instruction	1 N Oakridge Ave	35,040	\$ 5,463.92
BD OF PUBLIC INSTRUCTION	608 Mill St	34,880	\$ 4,418.64

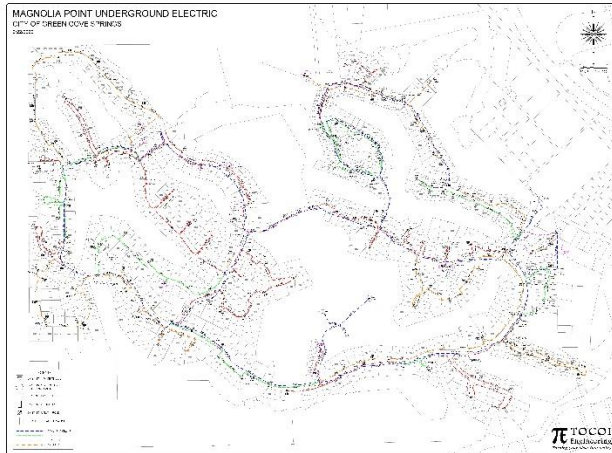
# Electric Utility Department Capital Projects:

## 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.

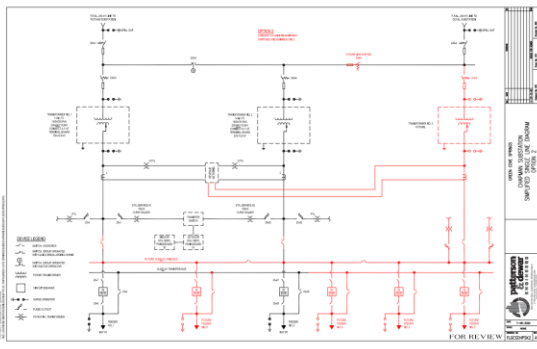
## Magnolia Point Reconductor

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.



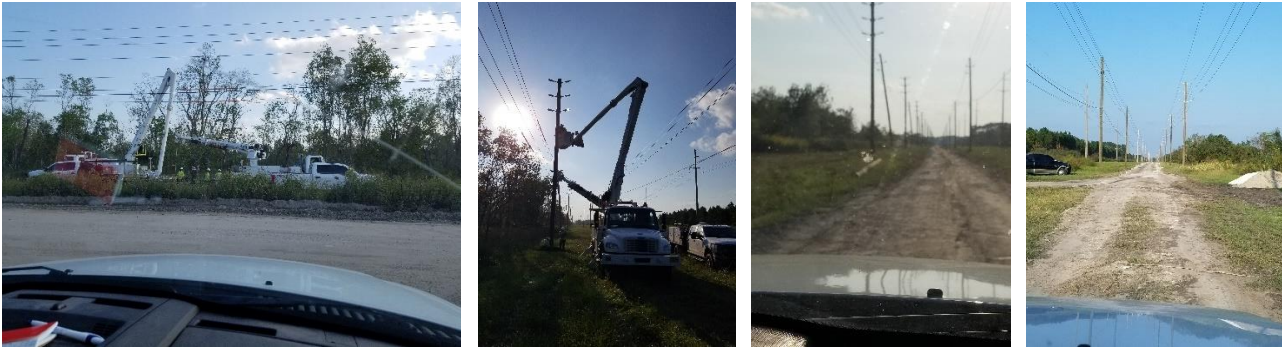
## Chapman Substation upgrade

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 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 new transformer is set to be delivered February 23, 2021. The project should be complete in July 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.

## Houston St. re-conductor

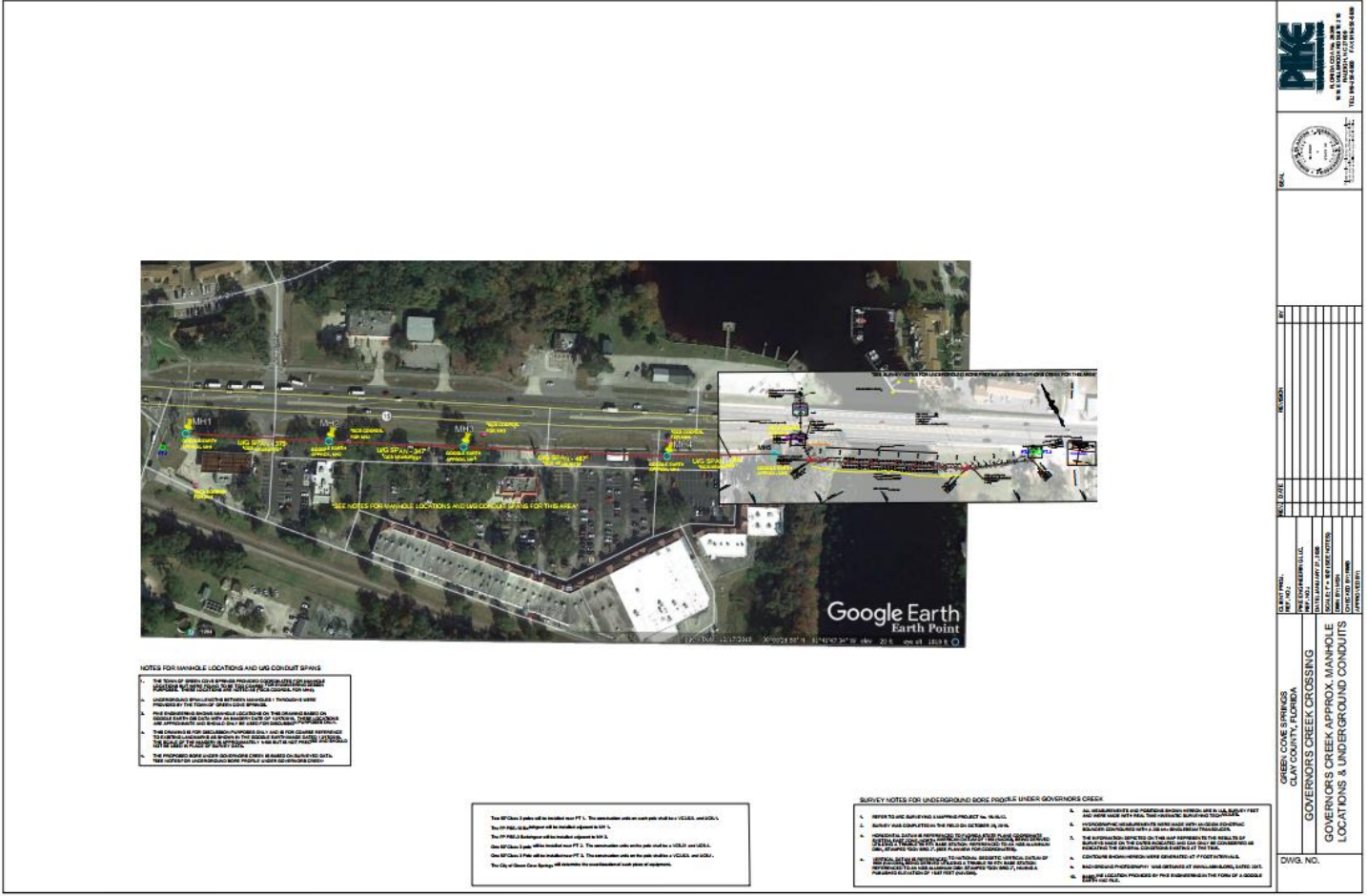
Planning for the reconductoring of Chapman 2 with 477 AAC from Martin Luther King Blvd. to Palmetto Ave. has begun. This will support a second circuit extending north of Governors Creek for restoration involving Magnolia Point, provide an alternate tie between Chapman 1 and Chapman 2 (was not possible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

## 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.



**NOTES FOR MANHOLE LOCATIONS AND UG CONDUIT SPANS**

1. All manhole locations shall be marked with a survey point and shall be marked with a yellow flag and a survey point. The manhole locations shall be marked with a yellow flag and a survey point.

2. All conduit spans shall be marked with a survey point and shall be marked with a yellow flag and a survey point.

3. The manhole locations shall be marked with a survey point and shall be marked with a yellow flag and a survey point.

4. The conduit spans shall be marked with a survey point and shall be marked with a yellow flag and a survey point.

The City of Green Cove Springs will be responsible for the installation of all manholes and conduits. The City of Green Cove Springs will be responsible for the installation of all manholes and conduits. The City of Green Cove Springs will be responsible for the installation of all manholes and conduits. The City of Green Cove Springs will be responsible for the installation of all manholes and conduits.

**SURVEY NOTES FOR UNDERGROUND BORE PIPES UNDER GOVERNORS CREEK**

1. All manhole locations shall be marked with a survey point and shall be marked with a yellow flag and a survey point.

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# 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.

**PKS**  
A DIVISION OF  
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WWW.PKSFL.COM

**PKS**

DATE
NO.
REV.
NO.
NO.
NO.
NO.
NO.
NO.
NO.
NO.

PROJECT: GREEN COVE SPRINGS  
CLAY COUNTY, FLORIDA  
GOVERNORS CREEK CROSSING  
GOVERNORS CREEK APPROX. MANHOLE  
LOCATIONS & UNDERGROUND CONDUITS

DATE: 12/15/2011  
DRAWN BY: [Redacted]  
CHECKED BY: [Redacted]  
APPROVED BY: [Redacted]

DWG. NO.