



## Legislation Text

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**File #:** 24-1160, **Version:** 1

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### Interoffice Memorandum

**DATE:** July 24, 2024

**TO:** Mayor Jerry L. Demings and County Commissioners

**THROUGH:** N/A

**FROM:** Joseph C. Kunkel, P. E., Director, Public Works Department

**CONTACT:** Raymond L.A. Williams, P.E., Manager

**PHONE:** (407) 836-7909

**DIVISION:** Engineering Division

**ACTION REQUESTED:**

Approval and execution of Utility Relocation Agreement by and between Orange County, Florida and Duke Energy Florida, LLC, d/b/a Duke Energy for the relocation of utility facilities on Bates Road from the Orange/Osceola County line to State Road 417. District 4. **(Engineering Division)**

**PROJECT:** N/A

**PURPOSE:**

Orange County plans to replace the existing Bates Road bridge and pedestrian bridge extension with a new bridge built to current standards and to raise the bridge above the floodplain elevation for the Crane Strand Canal. The limits of the project are from Glynn Street to Crown Jewel Court within Commission District 5. A Utility Relocation Agreement was negotiated between Orange County and Duke Energy to facilitate the relocation of utility facilities that would interfere with the proposed bridge construction.

Per the agreement, Orange County will be responsible for costs and expenses incurred in relocating the utility facilities that are located within dedicated Duke Energy utility easements. The actual costs for which Orange County would be responsible are not to exceed the estimated cost of \$32,847.30 by more than 20%. Orange County will be required to approve any excess work in writing prior to its performance.

The Public Works Engineering Division and the County Attorney's Office have reviewed the agreement and find the terms and conditions acceptable.

**BUDGET: N/A**

**UTILITY RELOCATION  
AGREEMENT**

This Utility Relocation Agreement (“Agreement”), effective as of the latest date of execution, is made and entered into by and between **ORANGE COUNTY, FLORIDA**, a charter county and political subdivision of the State of Florida, whose mailing address is P.O. Box 1393, Orlando, FL 32802-1393, hereinafter called (the “COUNTY”), and **DUKE ENERGY FLORIDA, LLC, d/b/a DUKE ENERGY**, a Florida limited liability company, whose mailing address is 299 1<sup>st</sup> Avenue N., Saint Petersburg, FL 33701 (“DUKE”) (DUKE and the COUNTY are collectively referred to herein as the “Parties,” and individually as a “Party”).

WITNESSETH

WHEREAS, the COUNTY will be undertaking the replacement of the Bates Road Bridge (the “Project”);

WHEREAS, Duke maintains distribution facilities in the area of the Project pursuant to that certain easement recorded in Official Records Book 2202, Page 553, of the Official Records of Orange County, Florida (the “Easement 1”);

WHEREAS, the Project will conflict with the distribution pole shown as “EXISTING POLE AND APPURTENANCES (741786) TO BE REMOVED STA-200+33 RT 21” (the “Pole 1”) on **Exhibit “A”** attached hereto and incorporated herein;

WHEREAS, Duke also maintains distribution facilities in the area of the Project pursuant to that certain easement recorded in Official Records Book 3115, Page 1506, of the Official Records of Orange County, Florida (the “Easement 2”);

WHEREAS, the Project will also conflict with the distribution pole shown as “EXISTING POLE AND APPURTENANCES (B41282) TO BE REMOVED STA-107+16 LT 19” (the “Pole 2”) on **Exhibit “A”** attached hereto and incorporated herein;

WHEREAS, Duke also maintains distribution facilities in the area of the Project pursuant to that certain easement recorded in Official Records Book 5716, Page 3759, of the Official Records of Orange County, Florida (the “Easement 3”);

WHEREAS, the Project will also conflict with the distribution pole shown as “EXISTING POLE AND APPURTENANCES (B41292) TO BE REMOVED STA-101+52 LT 25” (the “Pole 3”) on **Exhibit “A”** attached hereto and incorporated herein;

WHEREAS, DUKE and the COUNTY have therefore determined that the above-referenced distribution Pole 1 will be removed and replaced with the new distribution pole (the “Relocation Work 1”) to be installed within the Easement 1 in the location shown on **Exhibit “A”** as “PROPOSED POLE AND APPURTENANCES TO BE INSTALLED STA-200+9 RT 21”;

WHEREAS, DUKE and the COUNTY have therefore determined that the above-referenced distribution Pole 2 will be removed and replaced with the new distribution pole (the "Relocation Work 2") to be installed within the proposed right-of-way in the location shown on **Exhibit "A"** as "PROPOSED POLE AND APPURTENANCES TO BE INSTALLED STA-107+17 LT 30";

WHEREAS, DUKE and the COUNTY have therefore determined that the above-referenced distribution Pole 3 will be removed and replaced with new distribution pole (the "Relocation Work 3") to be installed within the proposed right-of-way in the location shown on **Exhibit "A"** as "PROPOSED POLE AND APPURTENANCES TO BE INSTALLED STA-101+20 LT 24";

WHEREAS, the three (3) existing distribution poles to be removed which are more specifically identified as Pole 1, Pole 2 and Pole 3 shall be referred to herein collectively as the "Facilities";

WHEREAS, the Relocation Work 1, Relocation Work 2 and Relocation Work 3 shall be referred to herein collectively as the "Relocation Work";

WHEREAS, the COUNTY has requested that DUKE undertake such Relocation Work at the COUNTY's expense to eliminate the conflict between the Project and the Facilities;

NOW, THEREFORE, in consideration of the mutual covenants hereinafter contained, it is agreed by both parties as follows:

1. DUKE agrees to perform, or cause to be performed, the Relocation Work, in accordance with **Exhibit "A."** The Relocation Work shall commence within a reasonable time upon the later of the following: (a) the COUNTY notifies DUKE that a Notice to Proceed in the area for the Relocation Work to occur has been issued for the successful bid; or (b) the COUNTY's notice to DUKE that all prerequisite site conditions (such as clearing grubbing and related tasks, including but not limited to the COUNTY's contractor staking the new right of way every one hundred (100) feet) required by DUKE are complete, and DUKE has verified such conditions are met. The Relocation Work shall include removing the Facilities from the Project limits no later than one hundred eighty (180) days from the commencement of the Relocation Work. Delays caused by forces beyond the control of DUKE –including but not limited to the time it takes for third parties to remove third-party facilities –shall not be treated as delays for which DUKE is responsible under this paragraph, provided that DUKE has used reasonable commercial efforts and diligence to avoid or remove such delays.

2. The COUNTY agrees that all actual and reasonable expenses incurred by DUKE in performing such Relocation Work shall be paid by the COUNTY after receipt, review and approval of invoices for such expenses, in accordance with the terms outlined in Sections 3 and 4 below. The Parties agree that DUKE cannot remove its Facilities until all third-party facilities have been removed by the owners of such facilities.

3. Based on the construction plans submitted by the COUNTY, DUKE has prepared a good faith cost estimate for the Relocation Work (the "Estimate"), which explains in detail the methods, procedures, and assumptions upon which it is based. This Estimate is in the amount of Thirty Two Thousand Eight Hundred Forty Seven Dollars and Thirty Cents (\$32,847.30), and is attached hereto and incorporated herein as **Exhibit "B."** The Parties recognize that this Estimate may be subject to change based on final construction drawings, or a change in the schedule or duration of the construction work. The COUNTY shall be responsible for payment of actual costs incurred by DUKE, that do not exceed such Estimate by more than twenty percent (20%), provided however, that COUNTY shall not be responsible for any cost in excess of the Estimate unless COUNTY has approved such excess work in writing prior to its performance, such approval not to be unreasonably withheld or delayed. Notwithstanding the foregoing, because of the demanding and time-sensitive nature of construction activities, DUKE may reasonably determine that a required change to the construction contract, once underway, constitutes an emergency, based upon

established standards of reasonable construction and may apply to the COUNTY for payment of the same, which request shall not reasonably be withheld. The COUNTY shall use reasonable efforts to respond to a request for approval from DUKE for such exceedance within twenty-four (24) hours of receipt by the COUNTY's Highway Construction Manager or designee of DUKE's written request with written justification.

4. The Estimate includes all materials necessary for the Relocation Work and all construction work. DUKE shall submit invoices to the COUNTY for costs of such items. After receipt of invoices, the COUNTY shall submit payment to DUKE in accordance with the Local Government Prompt Payment Act, Part VII of Chapter 218, Florida Statutes (and in any event within sixty (60) days of receipt by the COUNTY's Highway Construction Manager or designee to accept such invoices), provided the costs of such items are included within the Estimate.

5. DUKE's electrical lines will remain energized during the Project. Any outages of any of those lines required by the COUNTY or its agents to undertake the Project shall be solely at the discretion of DUKE based on system availability. Any COUNTY requests for outages of the lines shall be made to DUKE as far in advance as possible of the requested date, at a minimum of twenty-one (21) calendar days in advance. DUKE requires ten (10) calendar days to write a Switching Order and five (5) calendar days to coordinate crew availability. Delays caused by the need for outages shall not be treated as delays for which DUKE is responsible, and DUKE shall have additional time to complete such work.

6. During the Relocation Work period, the COUNTY shall use reasonable efforts to allow DUKE continuous, unobstructed access to all the Facilities to the extent reasonable. Similarly, DUKE shall use reasonable efforts to perform relocation work timely and to not disrupt the COUNTY's construction schedule. Delays caused by lack of access shall not be treated as delays for which DUKE is responsible, and DUKE shall have additional time to complete such work.

7. DUKE hereby acknowledges that time is of the essence to the lawful performance of the duties and obligations contained in this Agreement. DUKE shall be responsible for the pace of work performed by DUKE's employees, subcontractors, sub-subcontractors, or those working under DUKE's direction.

8. For the duration of this Agreement, the COUNTY and DUKE, and their respective agents and/or contractors and subcontractors shall each provide and maintain insurance or self-insurance coverage of such types and in such amounts as may be deemed necessary by each Party. Such insurance or self-insurance shall include at a minimum workers' compensation and employers' liability, business automobile liability and commercial general liability coverage.

9. Neither Party to this Agreement or its officers and employees shall, by this Agreement, be deemed to assume any liability for the acts, omissions and/or negligence of the other Party. The provisions of this paragraph will survive the termination of this Agreement.

10. Notices. Any notice or other communication permitted or required to be given hereunder by one party to the other shall be in writing and shall be delivered or mailed, by registered or certified United States Mail, postage prepaid, return receipt requested, or by nationally recognized, overnight courier (e.g., Federal Express) the party entitled or required to receive the same, as follows:

To DUKE: Duke Energy Florida, LLC d/b/a Duke Energy  
Land Services Manager  
Attention: Manager, Land Services  
3300 EXCHANGE PL  
LAKE MARY, FLORIDA 32746

With a copy to: Duke Energy Florida, LLC d/b/a Duke Energy  
Distribution Engineering  
452 E CROWN POINT RD  
WINTER GARDEN, FLORIDA 34787  
Attention: Manager, Engineering Division

To COUNTY: Orange County Administrator  
P.O. Box 1393  
Orlando, FL 32802-1393  
Attention: County Administrator

With a copy to: Orange County Public Works  
4200 South John Young Parkway  
Orlando, FL 32839  
Attention: Manager, Engineering Division

11. This Agreement is governed by the Laws of the State of Florida and appropriate venue is only in the Ninth Judicial Circuit of Orange County, Florida.

12. This Agreement and its attached exhibits constitute the entire Agreement between the parties and supersede any previous understanding between the parties. Changes to this Agreement affecting the terms must be made in writing by addendum and executed in substantially the same manner as this document. If any provision in this Agreement is invalidated, all remaining provisions shall continue in full force and effect, unless terminated.

13. All work performed by DUKE shall reflect the original approved "Red, Green and Browns" (RGB's) based on the construction plans attached as **Exhibit "A."** If field conditions change and warrant the need to modify the design, DUKE and the COUNTY will use reasonable efforts to agree on the submission of revised RGB's to the COUNTY.

14. The COUNTY shall be responsible for clearing, grubbing, etc. as necessary within the Project limits prior to the Relocation Work. The COUNTY shall be responsible for staking the Relocation Work.

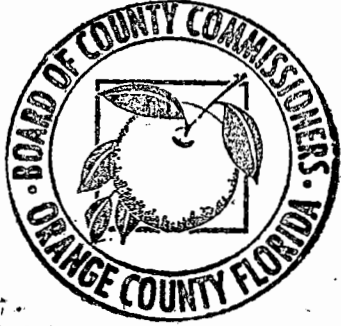
15. Force Majeure: Neither party shall be held liable or responsible to the other Party nor be deemed to have defaulted under or breached this Agreement for failure or delay in fulfilling or performing any term of this Agreement when such failure or delay is caused by or results from any cause beyond the reasonable control of the affected Party, including but not limited to, fire, flood, pandemic, embargo, war, an act of war (whether war is declared or not), insurrection, riot, civil commotion, strike, lockout or other labor disturbance, act of god or act, omission or delay in acting by any governmental authority or the other Party or an activity or operational or service requirement of a Party as an electric utility; provided, however, that the Party claiming the right to excuse performance by reason of force majeure shall use reasonable commercial efforts and diligence to avoid or remove such cause of nonperformance, and shall continue performance hereunder with reasonable dispatch whenever such cause is removed. Either Party shall provide the other Party with prompt written notice of any delay or failure to perform that occurs by reason of force majeure.

16. The terms, provisions, covenants and conditions of this Agreement shall be binding upon and inure to the benefit of DUKE and the COUNTY, and their respective successors and assigns; provided however, that this Agreement shall not be assignable without the prior written consent of the other Party hereto.

17. This Agreement may be executed in original counterparts, each of which shall be deemed to be an original, and of which together shall constitute one and the same instrument.

*[Signatures appear on the next page.]*

IN WITNESS WHEREOF, the Parties hereto have caused these presents to be executed by their duly authorized officers, and their official seals hereto affixed, the day and year below signatures.



ORANGE COUNTY, FLORIDA

By: Board of County Commissioners

By: *Jerry L. Demings*  
Jerry L. Demings  
Orange County Mayor

Date: *13 August*, 2024

ATTEST: Phil Diamond, CPA, County Comptroller  
As Clerk of the Board of County Commissioners

By: *Jennifer Lara-Klimetz*  
for Deputy Clerk  
Printed Name: *Jennifer Lara-Klimetz*



DUKE ENERGY FLORIDA, LLC, a Florida limited liability company, d/b/a Duke Energy

ATTEST:

[Signature]

Print or Type Name

[Signature]

JORGE MAQUEL

Print or Type Name

SIGNED, SEALED AND DELIVERED IN THE PRESENCE OF:

[Signature]

Signature of First Witness

Robb A Brown

Print or Type Name of First Witness

Address: 275 W PUNKIN RD  
APOKA FL 32712

[Signature]

Signature of Second Witness

Katherine Lopez

Print or Type Name of Second Witness

Address: 3300 Exchange Place  
LAKE MARY FL 32746

Duke Energy's mailing address:

299 1<sup>st</sup> Avenue N.  
St. Petersburg, FL 33701

CORPORATE SEAL

STATE OF \_\_\_\_\_

COUNTY OF \_\_\_\_\_

The foregoing instrument was acknowledged <sup>July</sup> before me by means of  physical presence or  online notarization, this 2 day of ~~June~~ <sup>July</sup>, 2024, by Jorge Maquel, Dir Assets Ops of Duke Energy Florida, LLC, a Florida limited liability company, d/b/a Duke Energy, on behalf of the corporation. He/She is personally known to me or has produced \_\_\_\_\_ as identification.

[Signature]  
[Notary Seal]

Notary Public

[Signature]

Name typed, printed or stamped

My Commission Expires: \_\_\_\_\_



EXHIBIT A  
PLANS \_\_\_\_\_

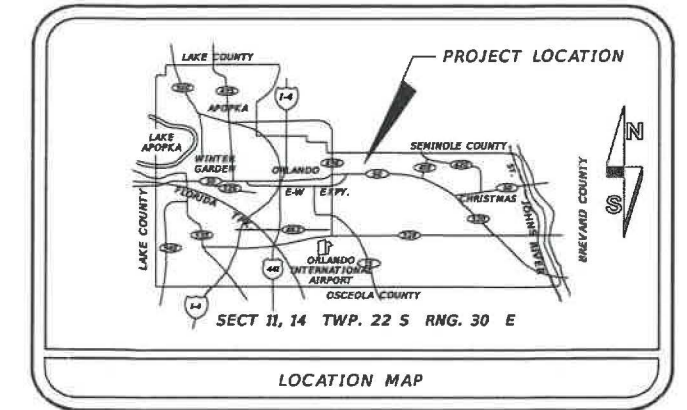


JERRY L. DEMINGS, COUNTY MAYOR

BOARD OF COUNTY COMMISSIONERS

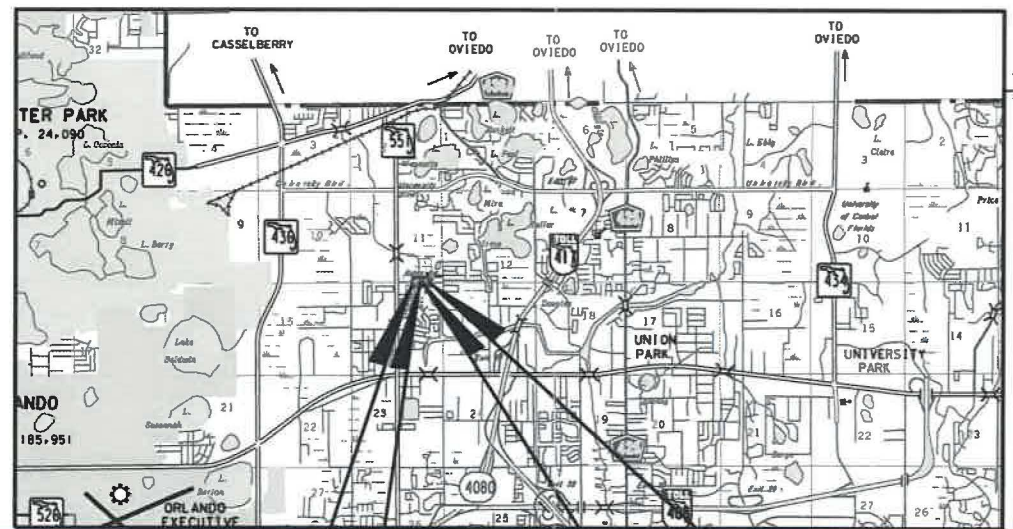
- |  |            |
|--|------------|
| NICOLE WILSON                                | DISTRICT 1 |
| CHRISTINE MOORE                              | DISTRICT 2 |
| MAYRA URIBE                                  | DISTRICT 3 |
| MARIBEL GOMEZ CORDERO                        | DISTRICT 4 |
| EMILY BONILLA                                | DISTRICT 5 |
| MICHAEL SCOTT                                | DISTRICT 6 |
| JOSEPH C. KUNKEL, P.E. PUBLIC WORKS DIRECTOR |            |

# CONSTRUCTION PLANS FOR BATES ROAD BRIDGE REPLACEMENT AND ROADWAY APPROACHES ORANGE COUNTY CIP NO. 2852 DISTRICT NO. 4 ORANGE COUNTY, FLORIDA



UTILITIES ENCOUNTERED	
COMPANY NAME	TELEPHONE NO.
CENTURYLINK	407-814-5351
CHARTER COMMUNICATIONS	407-532-8509
DUKE ENERGY DISTRIBUTION	407-359-4405
ORANGE COUNTY UTILITIES (OCU)	407-254-9706
CITY OF WINTER PARK	407-599-3355

INDEX OF SHEETS	
SHEET	DESCRIPTION
1	KEY SHEET
2	SIGNATURE SHEET
3-4	GENERAL NOTES
5	DRAINAGE MAP
6	DRAINAGE DETAIL
7	SUMMARY OF PAY ITEMS & PAY ITEM NOTES
8-13	TYPICAL SECTION SHEETS
14-20	SUMMARY OF QUANTITIES
21	SUMMARY OF DRAINAGE STRUCTURES
22-26	PLAN & PROFILE SHEETS
27-28	INTERSECTION DETAILS
29	CURB RETURN PROFILES
30	SPECIAL GRADING DETAIL SHEET
31-32	DRIVEWAY PROFILE SHEETS
33-39	DRAINAGE STRUCTURE CROSS SECTIONS
40-60	ROADWAY CROSS SECTIONS
61	CONSERVATION EASEMENT & WETLAND IMPACT EXHIBIT
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68-73	TRAFFIC CONTROL PLANS
74-78	UTILITY ADJUSTMENT SHEETS
79	SUMMARY OF VERIFIED UTILITIES
B1-1 - BW-4	STRUCTURE PLANS
S-1 - S-7	SIGNING AND PAVEMENT MARKINGS PLANS
SV-1 - SV-4	SURVEY CONTROL SHEETS



**DUKE ENERGY DISTRIBUTION MARK-UP ENGINEER: Jason Jimenez**  
**PHONE: 321-888-7975**  
**CONTACT E-MAIL: jason.jimenez@duke-energy.com**

**CONTRACTOR TO PERFORM LOCATES AND IDENTIFY ANY UNDERGROUND ELECTRIC FACILITIES NOT IDENTIFIED ON THIS MAP. ALSO, CONTRACTOR TO ADHERE TO APPLICABLE OSHA REQUIREMENTS REGARDING PERFORMING WORK AND OPERATING EQUIPMENT ADJACENT TO ENERGIZED OVERHEAD AND UNDERGROUND ELECTRIC CONDUCTORS.**

LENGTH OF PROJECT		
	LINEAR FEET	MILES
BATES ROAD	894.98	0.17
BRIDGE 754175	86.00	0.02

**NOTE :**  
 PLANS WERE PREPARED ACCORDING TO AVAILABLE INFORMATION TO ADEQUATELY ADDRESS CONDITIONS AS THEY EXISTED AT THE TIME OF PLANS PREPARATION. NEEDS, CONDITIONS AND OWNERSHIP OF PROPERTIES MAY HAVE CHANGED SINCE PROJECT DESIGN. THE COUNTY'S REPRESENTATIVE WILL ADDRESS CHANGES AND NEEDS WITH THE PROPERTY OWNER OR THEIR REPRESENTATIVES. CONTRACTOR SHALL WORK WITH THE COUNTY'S REPRESENTATIVE IN ADDRESSING AND MEETING NEEDS AND CONDITIONS THAT MAY CHANGE SINCE PLANS PREPARATION.

**CERTIFICATION TO PLANS**

I HEREBY CERTIFY THAT THE DESIGN FOR THIS PROJECT AND THE ATTACHED CONSTRUCTION PLANS COMPLY WITH THE REQUIREMENTS OF SECTION 336.045 OF THE FLORIDA STATUTES AND ARE IN SUBSTANTIAL CONFORMANCE WITH THE STANDARDS CONTAINED IN THE EDITION OF THE "MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS" IN EFFECT ON THIS DATE AS ADOPTED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION PURSUANT TO SUBSECTION 336.045(1) OF THE FLORIDA STATUTES.

DATE: FEB. 2024 ENGINEER: ERIC L. WHIKEHART, P.E. PE NO.: 70776

**DRAFT BID PACKAGE RE-SUBITTAL**  
**FEBRUARY 27, 2024**  
**NOT FOR CONSTRUCTION**

**ORANGE COUNTY BENCH MARKS USED**

- BEARINGS AND COORDINATES SHOWN HEREON ARE RELATIVE TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM OF 1983/2011 ADJUSTMENT (NAD83/11), ZONE 901, FLORIDA EAST, WITH THE BASELINE OF SURVEY FOR BATES ROAD FROM STATION 20+00.00 TO PI STATION 25+04.83 HAVING A BEARING OF SOUTH 89°53'10" EAST.
- ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AS ESTABLISHED FROM THE FOLLOWING ORANGE COUNTY BENCHMARKS:
  - S1372003  
FOUND A 3" ORANGE COUNTY ALUMINUM DISK IN A THE CENTERLINE OF A CONCRETE SIDEWALK INTERSECTION: 35 FEET ± SOUTHWEST OF BUILDING H, 90 FEET ± SOUTHWEST OF BUILDING I AND 80 FEET ± EAST OF POOL DECK, ALL OF THE COLONIES APARTMENT COMPLEX.  
PUBLISHED ELEVATION = 68.259 FEET (NAVD88)
  - S1372005  
FOUND A 3" ORANGE COUNTY ALUMINUM DISK IN THE NORTHWEST CORNER OF THE CONCRETE DOORSTEP LOCATED AT BUILDING "L" AND 37 FEET +/- EAST OF THE CENTERLINE OF AN ASPHALT DRIVEWAY, ALL OF THE COLONIES APARTMENT COMPLEX.  
PUBLISHED ELEVATION = 72.273 FEET (NAVD88)
- SEE SHEET SV1 FOR MORE INFORMATION.

**GOVERNING STANDARDS AND STANDARD SPECIFICATIONS :**  
 FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS FOR DESIGN, CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS ON THE STATE HIGHWAY SYSTEM DATED FY2022-2023 AND SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DATED JULY 2022 AS AMENDED BY CONTRACT DOCUMENTS.

LEGEND	
EXIST. EDGE OF PAVT.	CONCRETE RATE OF SUPERELEVATION
PROPOSED PAVEMENT	COLUMN
RIGHT OF WAY LINE	OVERHEAD TELEPHONE
SEWER STORM INLET	BURIED POWER CABLE
SURVEY REFERENCE POINT	TRANSFORMER
POINT OF INTERSECTION	POWER POLE W/TRANSFORMER
BASE LINE	LIGHT POLE
CENTER LINE	CABLE TV BOX
PROPERTY LINE	SANITARY SEWER
DELTA ANGLE	FIRE HYDRANT
APPROXIMATE ROUND	CONCRETE MONUMENT
CURB	IRON ROD
CURB & GUTTER	IRON PIPE
BARBED WIRE FENCE	BUSH
WATER METER	GATE POST
VALVE	TRAFFIC SIGN
WATER MAIN	MAIL BOX
RE-USE WATER MAIN	STORM SEWER, SIZE & TYPE
COMBINATION POLE	CATCH BASIN
POWER POLE	CLEAN OUT
GUY WIRE	EXIST. MANHOLE
OVERHEAD POWER	CHAIN LINK FENCE
BURIED FIBER OPTIC CABLE	FENCE GATE
TELEPHONE PEDESTAL	CITRUS TREES
BURIED TV CABLE	OAK TREES
BENCHMARK	SHRUB
SOIL BORING/PAVEMENT CORE	UNKNOWN TREE
PALM TREE & SIZE	
SWALE FLOW LINE	
SIGNAL MAST ARM	PULL BOX
PEDESTRIAN SIGNAL	SINGLE SUPPORT SIGN
TRAFFIC SIGNAL LOOPS	

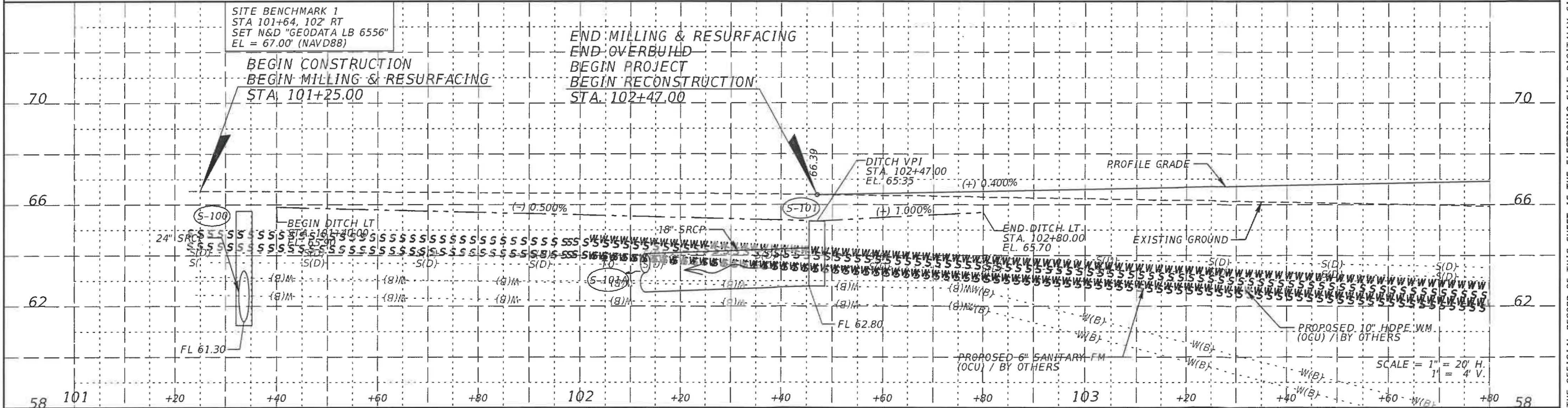
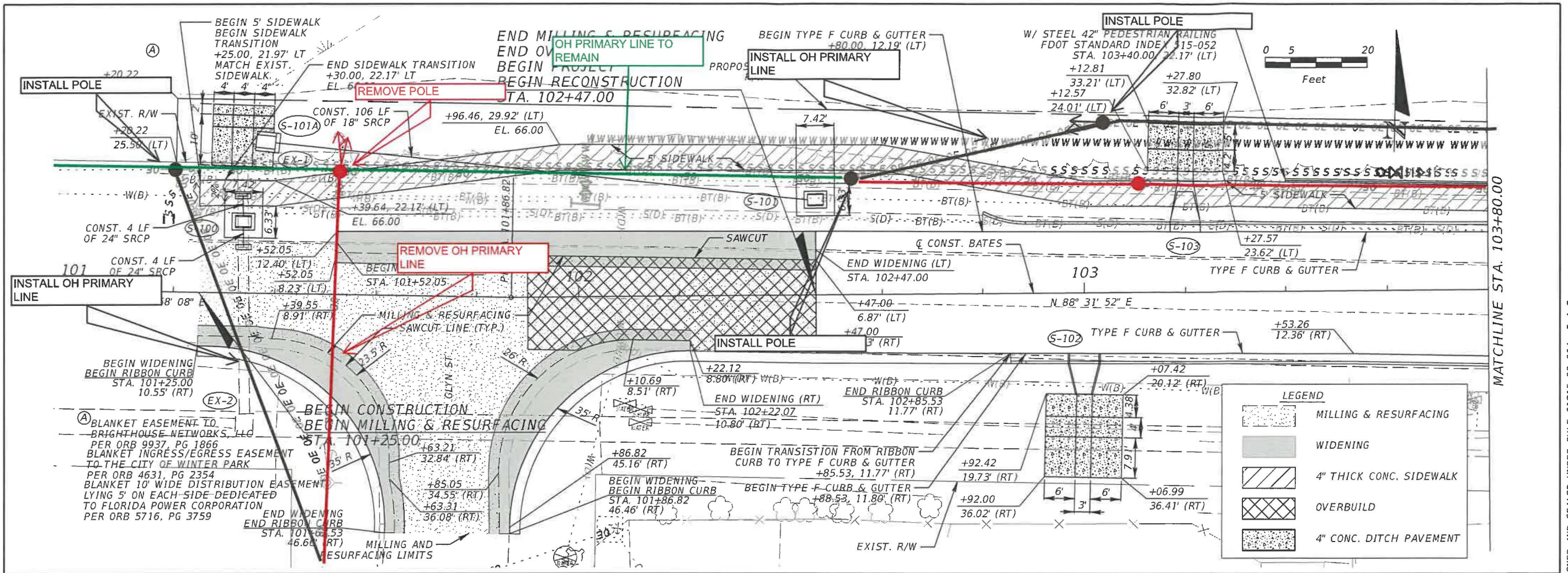
**PREPARED BY:**  
 TLP ENGINEERING CONSULTANTS, INC.  
 450 S. ORANGE AVE., SUITE 600  
 ORLANDO, FL 32801  
 PHONE: 407-901-5060

REVISIONS	DATE	BY

DESIGNED BY: TDR DATE: AUG. 2019  
 CHECKED BY: ELW DATE: NOV. 2021  
 APPROVED BY: YMM DATE: NOV. 2021

**SHEET 1**  
**OF 79**

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



REVISIONS		DESCRIPTION	
DATE	DESCRIPTION	DATE	DESCRIPTION

ORANGE COUNTY GOVERNMENT  
FLORIDA

TLP ENGINEERING CONSULTANTS, INC.  
450 S. ORANGE AVE., SUITE 600  
ORLANDO, FL 32801  
PH. 407-901-5060  
ERIC L. WHIKEHART, P.E. 70776

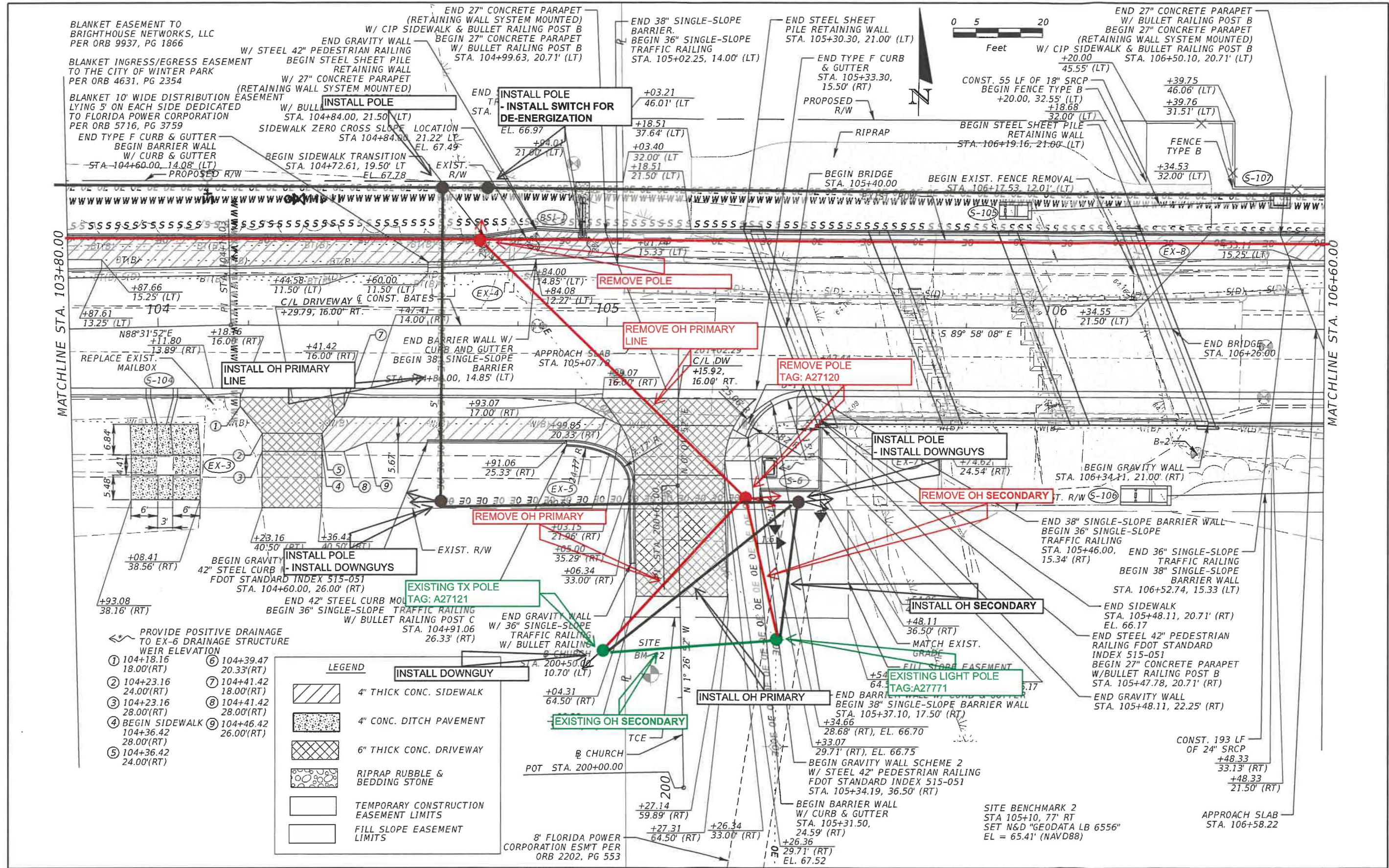
DESIGN PLANS FOR:  
ROADWAY AND BRIDGE  
REPLACEMENT

PROJECT NAME	PROJECT NO.
BATES RD.	CIP 2852

**PLAN AND PROFILE SHEETS**

SHEET NO.  
**22**

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



BLANKET EASEMENT TO BRIGHOUSE NETWORKS, LLC PER ORB 9937, PG 1866

BLANKET INGRESS/EGRESS EASEMENT TO THE CITY OF WINTER PARK PER ORB 4631, PG 2354

BLANKET 10' WIDE DISTRIBUTION LYING 5' ON EACH SIDE DEDICATED TO FLORIDA POWER CORPORATION PER ORB 5716, PG 3759

MATCHLINE STA. 103+80.00

MATCHLINE STA. 106+60.00

- PROVIDE POSITIVE DRAINAGE TO EX-6 DRAINAGE STRUCTURE WEIR ELEVATION
- |  |                          |
|--|--------------------------|
| 1 104+18.16<br>18.00(RT)                   | 6 104+39.47<br>20.33(RT) |
| 2 104+23.16<br>24.00(RT)                   | 7 104+41.42<br>18.00(RT) |
| 3 104+23.16<br>28.00(RT)                   | 8 104+41.42<br>28.00(RT) |
| 4 BEGIN SIDEWALK<br>104+36.42<br>28.00(RT) | 9 104+46.42<br>26.00(RT) |
| 5 104+36.42<br>24.00(RT)                   |                          |

**LEGEND**

	4" THICK CONC. SIDEWALK
	4" CONC. DITCH PAVEMENT
	6" THICK CONC. DRIVEWAY
	RIPRAP RUBBLE & BEDDING STONE
	TEMPORARY CONSTRUCTION EASEMENT LIMITS
	FILL SLOPE EASEMENT LIMITS

**ORANGE COUNTY GOVERNMENT**

**TLP ENGINEERING CONSULTANTS, INC.**  
 450 S. ORANGE AVE., SUITE 600  
 ORLANDO, FL. 32801  
 PH. 407-901-5060  
 ERIC L. WHIKEHART, P.E. 70776

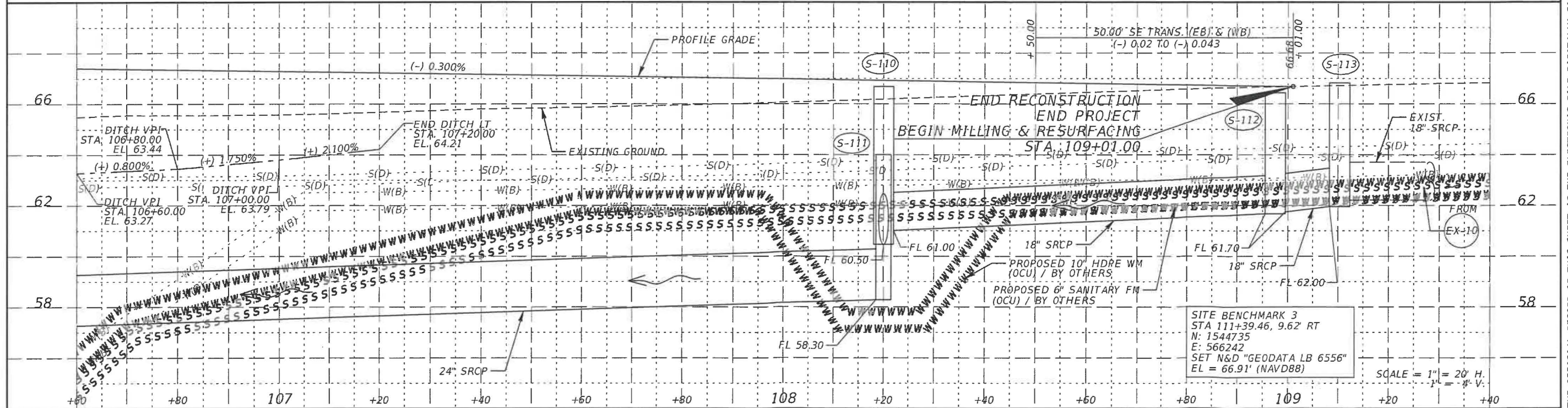
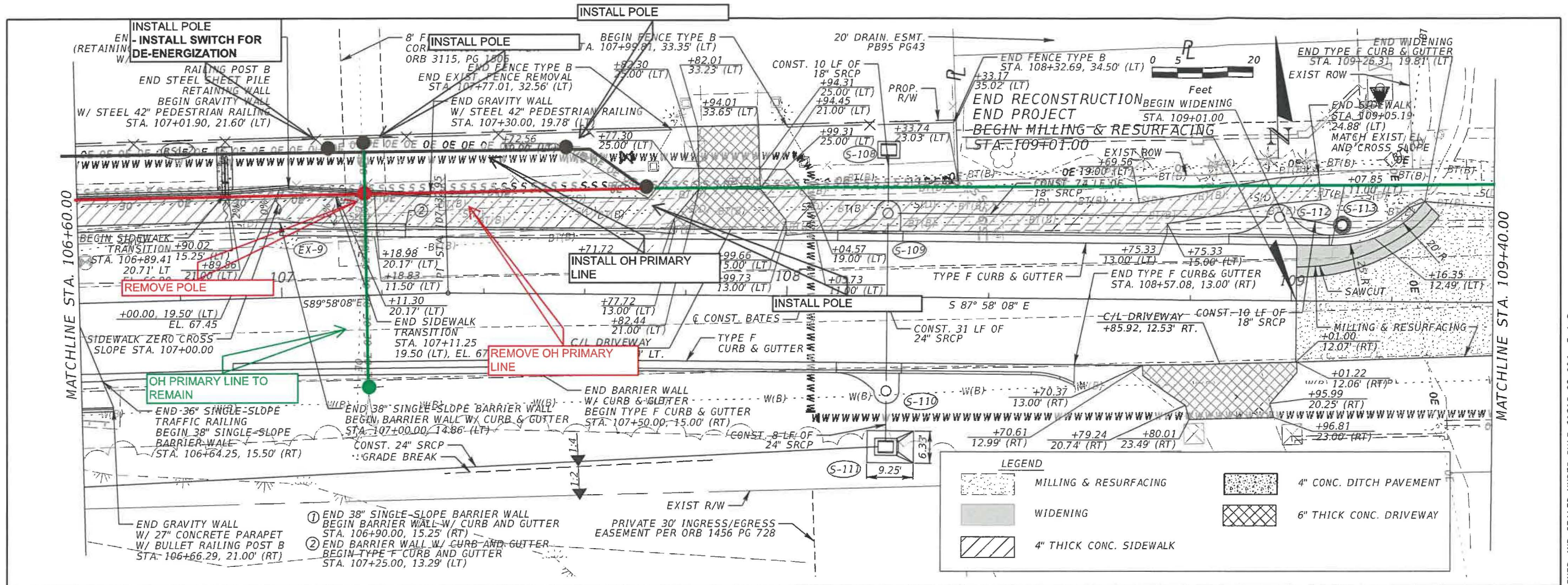
Eric Whikehart 2/27/2024 3:04:06 PM

DESIGN PLANS FOR:

ROADWAY AND BRIDGE REPLACEMENT	
PROJECT NAME	PROJECT NO.
BATES RD.	CIP 2852

<b>PLAN AND PROFILE SHEETS</b>		SHEET NO. <b>23</b>
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REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

ORANGE COUNTY GOVERNMENT  
FLORIDA

**TLP ENGINEERING CONSULTANTS, INC.**  
450 S. ORANGE AVE., SUITE 600  
ORLANDO, FL 32801  
PH. 407-901-5060  
ERIC L. WHIKEHART, P.E. 70776

DESIGN PLANS FOR:  
**ROADWAY AND BRIDGE REPLACEMENT**

PROJECT NAME	PROJECT NO.
BATES RD.	CIP 2852

**PLAN AND PROFILE SHEETS**

SHEET NO.  
**25**

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

EXHIBIT B  
ESTIMATE

# Detailed Cost Report-Detail

Service Area: JTOWN

Work Order Number: 26645988

Version: 17-DESIGN

Service Address: BATES RD , ORLANDO , FL 32827

Work Order Owner: Jimenez, Jason

GL Account: P62D-U406-69100-HWYN-MX6645988-I

Work Order Description: RGB\_DOT\_ORANGE\_CNTY\_BATES\_RD\_BRIDGE\_REPLACE\_PLANS

## Construction Details:

Task Type / CU Name	CU Description	Field ID	CU Action	CU Quantity	Process	Project	Activity	Labor	Materials	Service Cost	Total	Labor Hours
<b>OVERHEAD POLE AND EQUIP</b>			I	<b>159.00</b>	<b>HWYN</b>	<b>MX6645988</b>	I	<b>\$7,314.85</b>	<b>\$2,989.97</b>	<b>\$0.00</b>	<b>\$10,304.82</b>	<b>63.17</b>
ANCH-SQ-DBL-LG-F	Anchor Square Shaft Double 8in and 10in with 1.5in square		I	5.00	HWYN	MX6645988	I	\$0.00	\$1,107.63	\$0.00	\$1,107.63	0.00
GUY-DOWN-3/8IN-GALV-SGL-F	Guy Down Guy 3/8 in diameter Galvanized Single		I	9.00	HWYN	MX6645988	I	\$0.00	\$341.82	\$0.00	\$341.82	0.00
GUY-HOOK-F	Guy Hook for use on Wood Poles		I	11.00	HWYN	MX6645988	I	\$7.88	\$200.02	\$0.00	\$207.90	0.07
GUY-INSL-7FT-FG-LG-F	Guy Insulator 7ft Fiberglass with 21K LB rating		I	7.00	HWYN	MX6645988	I	\$0.00	\$189.14	\$0.00	\$189.14	0.00
GUY-SPAN-3/8IN-GALV-ATTACH-F	Guy Span 3/8 in diameter Galvanized Attach		I	1.00	HWYN	MX6645988	I	\$0.00	\$16.00	\$0.00	\$16.00	0.00
GUY-SPAN-3/8IN-GALV-WIRE-F	Guy Span 3/8 in diameter Galvanized Wire		I	48.00	HWYN	MX6645988	I	\$0.00	\$24.08	\$0.00	\$24.08	0.00
OLAB-ANCH-PISA-F	OH Labor Anchor power installed screw anchor		I	5.00	HWYN	MX6645988	I	\$1,314.33	\$0.00	\$0.00	\$1,314.33	11.35
OLAB-GUY-DOWN-SGL-F	OH Labor Guy down single		I	9.00	HWYN	MX6645988	I	\$1,493.82	\$0.00	\$0.00	\$1,493.82	12.90
OLAB-GUY-FG-INSL-F	OH Labor for Guy Fiberglass Strain Insulator		I	7.00	HWYN	MX6645988	I	\$650.80	\$0.00	\$0.00	\$650.80	5.62
OLAB-GUY-SPAN-ATTACH-F	OH Labor Guy span attachment (per pole)		I	1.00	HWYN	MX6645988	I	\$122.75	\$0.00	\$0.00	\$122.75	1.06
OLAB-GUY-SPAN-F	OH Labor Guy span (per ft)		I	48.00	HWYN	MX6645988	I	\$121.59	\$0.00	\$0.00	\$121.59	1.05
OLAB-POLE-WD-MD-F	OH Labor Pole wood between 38ft and 50ft (per pole)		I	4.00	HWYN	MX6645988	I	\$3,603.68	\$0.00	\$0.00	\$3,603.68	31.12
POLE-WD-40-C5-F	(UOP) 40ft long Class 5 Wood Pole with CCA Finish		I	2.00	HWYN	MX6645988	I	\$0.00	\$424.76	\$0.00	\$424.76	0.00
POLE-WD-45-C4-F	(UOP) 45ft long Class 4 Wood Pole with CCA Finish		I	2.00	HWYN	MX6645988	I	\$0.00	\$686.52	\$0.00	\$686.52	0.00
<b>OVERHEAD PRIMARY</b>			I	<b>2,568.64</b>	<b>HWYN</b>	<b>MX6645988</b>	I	<b>\$4,292.97</b>	<b>\$1,298.33</b>	<b>\$0.00</b>	<b>\$5,591.30</b>	<b>37.07</b>
CLAMP-DE-SM-F	Clamp dead end 6-4/0		I	18.00	HWYN	MX6645988	I	\$19.70	\$321.24	\$0.00	\$340.94	0.17
FUSE-LINK-80-K-F	Fuse Link 80 K		I	1.00	HWYN	MX6645988	I	\$2.32	\$3.36	\$0.00	\$5.68	0.02
HDWR-EYEBOLT-SM-10IN-GALV-	Hardware Eye Bolt 5/8in diameter 10in long Galvanized Steel		I	14.00	HWYN	MX6645988	I	\$0.00	\$66.00	\$0.00	\$66.00	0.00
HDWR-EYEBOLT-SM-12IN-GALV-	Hardware Eye Bolt 5/8in diameter 12in long Galvanized Steel		I	3.00	HWYN	MX6645988	I	\$0.00	\$18.90	\$0.00	\$18.90	0.00
HDWR-EYENUT-SM-GALV-F	Hardware Eye Nut 5/8in diameter Galvanized Steel		I	3.00	HWYN	MX6645988	I	\$0.00	\$7.23	\$0.00	\$7.23	0.00
HDWR-LWASH-SM-GALV-F	Hardware Lock Washer 5/8in diameter Galvanized Steel		I	4.00	HWYN	MX6645988	I	\$0.00	\$1.08	\$0.00	\$1.08	0.00
HDWR-MACH-LG-12IN-GALV-F	Hardware Machine Bolt 3/4in diameter 12in long Galvanized		I	3.00	HWYN	MX6645988	I	\$0.00	\$10.74	\$0.00	\$10.74	0.00
HDWR-SP-SM-12IN-GALV-F	Hardware Spool Bolt 5/8in diameter 12in long Galvanized Steel		I	1.00	HWYN	MX6645988	I	\$0.00	\$9.11	\$0.00	\$9.11	0.00
HDWR-SWASH-SM-GALV-	Hardware Square Washer 5/8in diameter Galvanized Steel		I	4.00	HWYN	MX6645988	I	\$0.00	\$5.73	\$0.00	\$5.73	0.00
INSL-CLIP-SHUNT-F	Insulator Clip Shunt		I	6.00	HWYN	MX6645988	I	\$5.91	\$29.55	\$0.00	\$35.46	0.05
INSL-DE/S-35KV-POLY-F	Insulator Dead End/Suspension 35kV Polymer		I	12.00	HWYN	MX6645988	I	\$0.00	\$303.60	\$0.00	\$303.60	0.00
INSL-GAIN-LG-F	Insulator gain grid 5 1/2in diameter		I	3.00	HWYN	MX6645988	I	\$1.97	\$69.21	\$0.00	\$71.18	0.02
INSL-POST-35KV-PORC-TT-F	Insulator Post 35kV Porcelain Tie Top		I	3.00	HWYN	MX6645988	I	\$0.00	\$84.22	\$0.00	\$84.22	0.00
INSL-STUD-STL-10IN-THD-F	Insulator Stud Steel 5/8in by 10in Long Threaded		I	3.00	HWYN	MX6645988	I	\$1.97	\$21.95	\$0.00	\$23.92	0.02
OADD-1MH-F	DEF-Adder-OH - Labor Adder 1 Man Hour		I	0.64	HWYN	MX6645988	I	\$74.14	\$0.00	\$0.00	\$74.14	0.64
OLAB-INSL-DE/S-F	OH Labor Insulator dead end/suspension		I	12.00	HWYN	MX6645988	I	\$1,409.27	\$0.00	\$0.00	\$1,409.27	12.17
OLAB-INSL-POST/PIN-F	OH Labor Insulator post or pin		I	3.00	HWYN	MX6645988	I	\$186.44	\$0.00	\$0.00	\$186.44	1.61
OLAB-WIRE-SM-F	OH Labor Primary Wire up to 2/0 (per ft)		I	1,236.00	HWYN	MX6645988	I	\$2,589.28	\$0.00	\$0.00	\$2,589.28	22.36
TIE-SIDE-1/0-AL-FNECK-F	Tie Side 1/0 AL F Neck		I	3.00	HWYN	MX6645988	I	\$1.97	\$11.57	\$0.00	\$13.54	0.02
WIRE-PRI-1/0-AAAC-F	(UOP) 1/0 AAAC Bare Overhead Wire with 7 Strands		I	1,236.00	HWYN	MX6645988	I	\$0.00	\$334.84	\$0.00	\$334.84	0.00
<b>OVERHEAD PRIMARY</b>			R	<b>2,367.06</b>	<b>HWYN</b>	<b>MX6645988</b>	I	<b>\$2,254.41</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$2,254.41</b>	<b>19.47</b>
CLAMP-SUS-CUSHGRP-SM-F	Clamp suspension cushion grip 2-4/0		R	3.00	HWYN	MX6645988	I	\$1.97	\$0.00	\$0.00	\$1.97	0.02
HDWR-EYEBOLT-SM-12IN-GALV-	Hardware Eye Bolt 5/8in diameter 12in long Galvanized Steel		R	3.00	HWYN	MX6645988	I	\$0.00	\$0.00	\$0.00	\$0.00	0.00
INSL-DE/S-35KV-POLY-F	Insulator Dead End/Suspension 35kV Polymer		R	1.00	HWYN	MX6645988	I	\$0.00	\$0.00	\$0.00	\$0.00	0.00
INSL-DE/S-PORC-F	REM ONLY---USE CU: INSL-DE/S-35KV-POLY-F FOR		R	3.00	HWYN	MX6645988	I	\$0.00	\$0.00	\$0.00	\$0.00	0.00
INSL-GAIN-LG-F	Insulator gain grid 5 1/2in diameter		R	3.00	HWYN	MX6645988	I	\$1.97	\$0.00	\$0.00	\$1.97	0.02
INSL-POST-35KV-PORC-TT-F	Insulator Post 35kV Porcelain Tie Top		R	3.00	HWYN	MX6645988	I	\$0.00	\$0.00	\$0.00	\$0.00	0.00
INSL-STUD-STL-10IN-THD-F	Insulator Stud Steel 5/8in by 10in Long Threaded		R	3.00	HWYN	MX6645988	I	\$1.97	\$0.00	\$0.00	\$1.97	0.02
OADD-1MH-F	DEF-Adder-OH - Labor Adder 1 Man Hour		R	0.06	HWYN	MX6645988	I	\$6.95	\$0.00	\$0.00	\$6.95	0.06
OLAB-INSL-DE/S-F	OH Labor Insulator dead end/suspension		R	4.00	HWYN	MX6645988	I	\$332.35	\$0.00	\$0.00	\$332.35	2.87
OLAB-INSL-POST/PIN-F	OH Labor Insulator post or pin		R	3.00	HWYN	MX6645988	I	\$127.38	\$0.00	\$0.00	\$127.38	1.10
OLAB-WIRE-SM-F	OH Labor Primary Wire up to 2/0 (per ft)		R	1,169.00	HWYN	MX6645988	I	\$1,779.85	\$0.00	\$0.00	\$1,779.85	15.37
TIE-SIDE-1/0-AL-FNECK-F	Tie Side 1/0 AL F Neck		R	3.00	HWYN	MX6645988	I	\$1.97	\$0.00	\$0.00	\$1.97	0.02
WIRE-PRI-1/0-AAAC-F	(UOP) 1/0 AAAC Bare Overhead Wire with 7 Strands		R	1,169.00	HWYN	MX6645988	I	\$0.00	\$0.00	\$0.00	\$0.00	0.00
<b>OVERHEAD POLE AND EQUIP</b>			R	<b>81.00</b>	<b>HWYN</b>	<b>MX6645988</b>	I	<b>\$2,988.46</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$2,988.46</b>	<b>25.81</b>



**Detailed Cost Report-Detail**

GUY-HOOK-F	Guy Hook for use on Wood Poles	R	2.00	HWYN	MX6645988	I	\$1.97	\$0.00	\$0.00	\$1.97	0.02
GUY-SPAN-3/8IN-GALV-ATTACH-	Guy Span 3/8 in diameter Galvanized Attach	R	36.00	HWYN	MX6645988	I	\$0.00	\$0.00	\$0.00	\$0.00	0.00
GUY-SPAN-3/8IN-GALV-WIRE-F	Guy Span 3/8 in diameter Galvanized Wire	R	1.00	HWYN	MX6645988	I	\$0.00	\$0.00	\$0.00	\$0.00	0.00
OADD-POLE-CUTOFF-WD-F	DEF Adder-OH - OH Adder Pole cut off without cap for wood	R	1.00	HWYN	MX6645988	I	\$135.49	\$0.00	\$0.00	\$135.49	1.17
OLAB-GUY-SPAN-ATTACH-F	OH Labor Guy span attachment (per pole)	R	36.00	HWYN	MX6645988	I	\$1,992.92	\$0.00	\$0.00	\$1,992.92	17.21
OLAB-GUY-SPAN-F	OH Labor Guy span (per ft)	R	1.00	HWYN	MX6645988	I	\$2.32	\$0.00	\$0.00	\$2.32	0.02
OLAB-POLE-WD-MD-F	OH Labor Pole wood between 36ft and 50ft (per pole)	R	1.00	HWYN	MX6645988	I	\$412.25	\$0.00	\$0.00	\$412.25	3.56
OLAB-POLE-WD-MD-NOPAY-F	OH Labor Pole wood between 36ft and 50ft NO PAY (PER	R	1.00	HWYN	MX6645988	I	\$443.51	\$0.00	\$0.00	\$443.51	3.83
POLE-WD-40-C5-F	(UOP) 40ft long Class 5 Wood Pole with CCA Finish	R	1.00	HWYN	MX6645988	I	\$0.00	\$0.00	\$0.00	\$0.00	0.00
POLE-WD-45-AC-JU-REM-F	(UOP) REM ONLY: FOR NEW INSTALLS USE CU: POLE-WD-	R	1.00	HWYN	MX6645988	I	\$0.00	\$0.00	\$0.00	\$0.00	0.00
<b>OVERHEAD SECONDARY</b>		<b>R</b>	<b>378.00</b>	<b>HWYN</b>	<b>MX6645988</b>	<b>I</b>	<b>\$423.13</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$423.13</b>	<b>3.65</b>
INSL-1RACK-SEC-PORC-F	Insulator One Wire Rack Secondary/Neutral Porcelain	R	1.00	HWYN	MX6645988	I	\$0.00	\$0.00	\$0.00	\$0.00	0.00
INSL-SP-SEC-PORC-F	Insulator Spool Secondary/Neutral Porcelain	R	1.00	HWYN	MX6645988	I	\$0.00	\$0.00	\$0.00	\$0.00	0.00
OLAB-SEC-NEU-HDWR-F	OH Labor for Secondary or Neutral Insulator hardware or Anti	R	1.00	HWYN	MX6645988	I	\$28.95	\$0.00	\$0.00	\$28.95	0.25
OLAB-SEC-ATTACH-DE-F	OH Labor Secondary Wire attach dead end	R	1.00	HWYN	MX6645988	I	\$49.79	\$0.00	\$0.00	\$49.79	0.43
OLAB-WIRE-SEC-MX-F	OH Labor for Multiplex OH Secondary Wire	R	186.00	HWYN	MX6645988	I	\$340.45	\$0.00	\$0.00	\$340.45	2.94
TIE-SPOOL-1/0-AL-F	Tie Spool 1/0 AL	R	2.00	HWYN	MX6645988	I	\$3.94	\$0.00	\$0.00	\$3.94	0.03
WIRE-SEC-1/0-AL-DX-RT-F	(UOP) 600V Secondary Duplex Aerial Wire with Mousing: (2) 1/0	R	186.00	HWYN	MX6645988	I	\$0.00	\$0.00	\$0.00	\$0.00	0.00
<b>OVERHEAD SECONDARY</b>		<b>I</b>	<b>1,058.00</b>	<b>HWYN</b>	<b>MX6645988</b>	<b>I</b>	<b>\$2,330.71</b>	<b>\$435.32</b>	<b>\$0.00</b>	<b>\$2,766.03</b>	<b>20.13</b>
INSL-SP-SEC-PORC-F	Insulator Spool Secondary/Neutral Porcelain	I	1.00	HWYN	MX6645988	I	\$0.00	\$2.11	\$0.00	\$2.11	0.00
OLAB-SEC-NEU-HDWR-F	OH Labor for Secondary or Neutral Insulator hardware or Anti	I	1.00	HWYN	MX6645988	I	\$49.79	\$0.00	\$0.00	\$49.79	0.43
OLAB-SEC-ATTACH-DE-F	OH Labor Secondary Wire attach dead end	I	7.00	HWYN	MX6645988	I	\$526.89	\$0.00	\$0.00	\$526.89	4.55
OLAB-WIRE-SEC-MX-F	OH Labor for Multiplex OH Secondary Wire	I	524.00	HWYN	MX6645988	I	\$1,752.06	\$0.00	\$0.00	\$1,752.06	15.13
TIE-SPOOL-1/0-AL-F	Tie Spool 1/0 AL	I	1.00	HWYN	MX6645988	I	\$1.97	\$2.96	\$0.00	\$4.93	0.02
WIRE-SEC-1/0-AL-DX-RT-F	(UOP) 600V Secondary Duplex Aerial Wire with Mousing: (2) 1/0	I	524.00	HWYN	MX6645988	I	\$0.00	\$430.25	\$0.00	\$430.25	0.00
<b>Grand Total:</b>			<b>6,611.70</b>				<b>\$19,604.53</b>	<b>\$4,723.62</b>	<b>0.00</b>	<b>\$24,328.15</b>	<b>169.30</b>

**Project Details:**

Project	Process	Activity	CU	CU Name	CU Description	Labor	Labor	Material	Material	Service Cost	Service Cost	Total	Labor
MX6645988	HWYN	I	I			#####	\$5,519.66	\$4,723.62	\$755.76	\$0.00	\$0.00	\$24,937.57	71.10%
						\$0.00	\$5,519.66	\$0.00	\$755.76	\$0.00	\$0.00	\$6,275.42	20.17%
				ANCH-SQ-DBL-LG-F	Anchor Square Shaft Double 8in and 10in with 1.5in square	\$0.00	\$0.00	\$1,107.63	\$0.00	\$0.00	\$0.00	\$1,107.63	0.00%
				CLAMP-DE-SM-F	Clamp dead end 6-4/0	\$19.70	\$0.00	\$321.24	\$0.00	\$0.00	\$0.00	\$340.94	0.07%
				FUSE-LINK-80-K-F	Fuse Link 80 K	\$2.32	\$0.00	\$3.36	\$0.00	\$0.00	\$0.00	\$5.68	0.01%
				GUY-DOWN-3/8IN-GALV-	Guy Down Guy 3/8 in diameter Galvanized Single	\$0.00	\$0.00	\$341.82	\$0.00	\$0.00	\$0.00	\$341.82	0.00%
				GUY-HOOK-F	Guy Hook for use on Wood Poles	\$7.88	\$0.00	\$200.02	\$0.00	\$0.00	\$0.00	\$207.90	0.03%
				GUY-INSL-7FT-FG-LG-F	Guy Insulator 7ft Fiberglass with 21K LB rating	\$0.00	\$0.00	\$189.14	\$0.00	\$0.00	\$0.00	\$189.14	0.00%
				GUY-SPAN-3/8IN-GALV-	Guy Span 3/8 in diameter Galvanized Attach	\$0.00	\$0.00	\$16.00	\$0.00	\$0.00	\$0.00	\$16.00	0.00%
				GUY-SPAN-3/8IN-GALV-	Guy Span 3/8 in diameter Galvanized Wire	\$0.00	\$0.00	\$24.08	\$0.00	\$0.00	\$0.00	\$24.08	0.00%
				HDWR-EYEBOLT-SM-	Hardware Eye Bolt 5/8in diameter 10in long Galvanized	\$0.00	\$0.00	\$66.00	\$0.00	\$0.00	\$0.00	\$66.00	0.00%
				HDWR-EYEBOLT-SM-	Hardware Eye Bolt 5/8in diameter 12in long Galvanized	\$0.00	\$0.00	\$18.90	\$0.00	\$0.00	\$0.00	\$18.90	0.00%
				HDWR-EYENUT-SM-	Hardware Eye Nut 5/8in diameter Galvanized Steel	\$0.00	\$0.00	\$7.23	\$0.00	\$0.00	\$0.00	\$7.23	0.00%
				HDWR-LWASH-SM-GALV	Hardware Lock Washer 5/8in diameter Galvanized Steel	\$0.00	\$0.00	\$1.08	\$0.00	\$0.00	\$0.00	\$1.08	0.00%
				HDWR-MACH-LG-12IN-	Hardware Machine Bolt 3/4in diameter 12in long	\$0.00	\$0.00	\$10.74	\$0.00	\$0.00	\$0.00	\$10.74	0.00%
				HDWR-SP-SM-12IN-GALV	Hardware Spool Bolt 5/8in diameter 12in long Galvanized	\$0.00	\$0.00	\$9.11	\$0.00	\$0.00	\$0.00	\$9.11	0.00%
				HDWR-SWASH-SM-GALV	Hardware Square Washer 5/8in diameter Galvanized Steel	\$0.00	\$0.00	\$5.73	\$0.00	\$0.00	\$0.00	\$5.73	0.00%
				INSL-CLIP-SHUNT-F	Insulator Clip Shunt	\$5.91	\$0.00	\$29.55	\$0.00	\$0.00	\$0.00	\$35.46	0.02%
				INSL-DE/S-35KV-POLY-F	Insulator Dead End/Suspension 35kV Polymer	\$0.00	\$0.00	\$303.60	\$0.00	\$0.00	\$0.00	\$303.60	0.00%
				INSL-GAIN-LG-F	Insulator gain grid 5 1/2in diameter	\$1.97	\$0.00	\$69.21	\$0.00	\$0.00	\$0.00	\$71.18	0.01%
				INSL-POST-35KV-PORC-	Insulator Post 35kV Porcelain Tie Top	\$0.00	\$0.00	\$84.22	\$0.00	\$0.00	\$0.00	\$84.22	0.00%
				INSL-SP-SEC-PORC-F	Insulator Spool Secondary/Neutral Porcelain	\$0.00	\$0.00	\$2.11	\$0.00	\$0.00	\$0.00	\$2.11	0.00%
				INSL-STUD-STL-10IN-	Insulator Stud Steel 5/8in by 10in Long Threaded	\$1.97	\$0.00	\$21.95	\$0.00	\$0.00	\$0.00	\$23.92	0.01%
				OADD-1MH-F	DEF-Adder-OH - Labor Adder 1 Man Hour	\$74.14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$74.14	0.27%
				OLAB-ANCH-PISA-F	OH Labor Anchor power installed screw anchor	\$1,314.33	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,314.33	4.80%
				OLAB-GUY-DOWN-SGL-F	OH Labor Guy down single	\$1,493.82	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,493.82	5.46%
				OLAB-GUY-FG-INSL-F	OH Labor for Guy Fiberglass Strain Insulator	\$650.80	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$650.80	2.38%
				OLAB-GUY-SPAN-	OH Labor Guy span attachment (per pole)	\$122.75	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$122.75	0.45%
				OLAB-GUY-SPAN-F	OH Labor Guy span (per ft)	\$121.59	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$121.59	0.44%
				OLAB-INSL-DE/S-F	OH Labor Insulator dead end/suspension	\$1,409.27	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,409.27	5.15%
				OLAB-INSL-POST/PIN-F	OH Labor Insulator post or pin	\$186.44	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$186.44	0.68%

Detailed Cost Report-Detail

	OLAB-POLE-WD-MD-F	OH Labor Pole wood between 36ft and 50ft (per pole)	\$3,603.68	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3,603.68	13.17%
	OLAB-SEC/NEU-HDWR-F	OH Labor for Secondary or Neutral Insulator hardware or	\$49.79	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$49.79	0.18%
	OLAB-SEC-ATTACH-DE-F	OH Labor Secondary Wire attach dead end	\$526.89	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$526.89	1.93%
	OLAB-WIRE-SEC-MX-F	OH Labor for Multiplex OH Secondary Wire	\$1,752.06	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,752.06	6.40%
	OLAB-WIRE-SM-F	OH Labor Primary Wire up to 2/0 (per ft)	\$2,589.28	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,589.28	9.46%
	POLE-WD-40-C5-F	(UOP) 40ft long Class 5 Wood Pole with CCA Finish	\$0.00	\$0.00	\$424.76	\$0.00	\$0.00	\$0.00	\$424.76	0.00%
	POLE-WD-45-C4-F	(UOP) 45ft long Class 4 Wood Pole with CCA Finish	\$0.00	\$0.00	\$686.52	\$0.00	\$0.00	\$0.00	\$686.52	0.00%
	TIE-SIDE-1/0-AL-FNECK-	Tie Side 1/0 AL F Neck	\$1.97	\$0.00	\$11.57	\$0.00	\$0.00	\$0.00	\$13.54	0.01%
	TIE-SPOOL-1/0-AL-F	Tie Spool 1/0 AL	\$1.97	\$0.00	\$2.96	\$0.00	\$0.00	\$0.00	\$4.93	0.01%
	WIRE-PRI-1/0-AAAC-F	(UOP) 1/0 AAAC Bare Overhead Wire with 7 Strands	\$0.00	\$0.00	\$334.84	\$0.00	\$0.00	\$0.00	\$334.84	0.00%
	WIRE-SEC-1/0-AL-DX-RT-	(UOP) 600V Secondary Duplex Aerial Wire with Mousing:	\$0.00	\$0.00	\$430.25	\$0.00	\$0.00	\$0.00	\$430.25	0.00%
			<b>\$5,666.00</b>	<b>\$2,243.73</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$7,909.73</b>	<b>28.90%</b>
			\$0.00	\$2,243.73	\$0.00	\$0.00	\$0.00	\$0.00	\$2,243.73	8.20%
	CLAMP-SUS-CUSHGRP-	Clamp suspension cushion grip 2-4/0	\$1.97	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.97	0.01%
	GUY-HOOK-F	Guy Hook for use on Wood Poles	\$1.97	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.97	0.01%
	GUY-SPAN-3/8IN-GALV-	Guy Span 3/8 in diameter Galvanized Attach	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00%
	GUY-SPAN-3/8IN-GALV-	Guy Span 3/8 in diameter Galvanized Wire	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00%
	HDWR-EYEBOLT-SM-	Hardware Eye Bolt 5/8in diameter 12in long Galvanized	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00%
	INSL-1RACK-SEC-PORC-	Insulator One Wire Rack Secondary/Neutral Porcelain	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00%
	INSL-DE/S-35KV-POLY-F	Insulator Dead End/Suspension 35KV Polymer	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00%
	INSL-DE/S-PORC-F	REM ONLY—USE CU: INSL-DE/S-35KV-POLY-F FOR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00%
	INSL-GAIN-LG-F	Insulator gain grid 5 1/2in diameter	\$1.97	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.97	0.01%
	INSL-POST-35KV-PORC-	Insulator Post 35kV Porcelain Tie Top	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00%
	INSL-SP-SEC-PORC-F	Insulator Spool Secondary/Neutral Porcelain	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00%
	INSL-STUD-STL-10IN-	Insulator Stud Steel 5/8in by 10in Long Threaded	\$1.97	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.97	0.01%
	OADD-1MH-F	DEF-Adder-OH - Labor Adder 1 Man Hour	\$6.95	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.95	0.03%
	OADD-POLE-CUTOFF-	DEF Adder-OH - OH Adder Pole cut off without cap for	\$135.49	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$135.49	0.50%
	OLAB-GUY-SPAN-	OH Labor Guy span attachment (per pole)	\$1,992.92	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,992.92	7.28%
	OLAB-GUY-SPAN-F	OH Labor Guy span (per ft)	\$2.32	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.32	0.01%
	OLAB-INSL-DE/S-F	OH Labor Insulator dead end/suspension	\$332.35	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$332.35	1.21%
	OLAB-INSL-POST/PIN-F	OH Labor Insulator post or pin	\$127.38	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$127.38	0.47%
	OLAB-POLE-WD-MD-F	OH Labor Pole wood between 36ft and 50ft (per pole)	\$412.25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$412.25	1.51%
	OLAB-POLE-WD-MD-	OH Labor Pole wood between 36ft and 50ft NO PAY (PER	\$443.51	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$443.51	1.62%
	OLAB-SEC/NEU-HDWR-F	OH Labor for Secondary or Neutral Insulator hardware or	\$28.95	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$28.95	0.11%
	OLAB-SEC-ATTACH-DE-F	OH Labor Secondary Wire attach dead end	\$49.79	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$49.79	0.18%
	OLAB-WIRE-SEC-MX-F	OH Labor for Multiplex OH Secondary Wire	\$340.45	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$340.45	1.24%
	OLAB-WIRE-SM-F	OH Labor Primary Wire up to 2/0 (per ft)	\$1,779.85	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,779.85	6.50%
	POLE-WD-40-C5-F	(UOP) 40ft long Class 5 Wood Pole with CCA Finish	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00%
	POLE-WD-45-AC-JU-REM-	(UOP) REM ONLY: FOR NEW INSTALLS USE CU: POLE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00%
	TIE-SIDE-1/0-AL-FNECK-	Tie Side 1/0 AL F Neck	\$1.97	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.97	0.01%
	TIE-SPOOL-1/0-AL-F	Tie Spool 1/0 AL	\$3.94	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3.94	0.01%
	WIRE-PRI-1/0-AAAC-F	(UOP) 1/0 AAAC Bare Overhead Wire with 7 Strands	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00%
	WIRE-SEC-1/0-AL-DX-RT-	(UOP) 600V Secondary Duplex Aerial Wire with Mousing:	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00%
<b>Total</b>			#####	<b>\$7,763.39</b>	<b>\$4,723.62</b>	<b>\$755.76</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$32,847.30</b>	<b>100.00%</b>

Type	Activity	Cost
Capital	I	\$32,847.30
<b>Total Cost</b>		<b>\$32,847.30</b>

Total CIAC:

Breakdown of cost by FERC Account

FERC	Percentage
36500	45.56 %
36400	54.44 %

Breakdown of cost by Point/Span

Point/Span	Cost	Percentage
S15	\$1088.46	3.31 %

**Detailed Cost Report-Detail**

S17	\$153.57	0.47 %
S19	\$46.88	0.14 %
P17	\$938.26	2.86 %
P15	\$4690.48	14.28 %
P16	\$4990.19	15.19 %
S13	\$680.29	2.07 %
S14	\$777.01	2.37 %
S37	\$2046.58	6.23 %
S39	\$1457.28	4.44 %
S38	\$475.27	1.45 %
S48	\$2382.53	7.25 %
S50	\$562.44	1.71 %
S16	\$237.64	0.72 %
P35	\$1223.42	3.72 %
P19	\$2596.91	7.91 %
S40	\$2788.11	8.49 %
S41	\$432.53	1.32 %
P14	\$5279.45	16.07 %