



Interoffice Memorandum

August 30, 2021

TO: Mayor Jerry L. Demings
-AND-
County Commissioners

FROM: Ed Torres, M.S., P.E., LEED AP, Director
Utilities Department

A handwritten signature in black ink, appearing to read "Ed Torres", with a long, sweeping horizontal stroke extending to the right.

**SUBJECT: BCC AGENDA ITEM – Consent Agenda
September 14, 2021 BCC Meeting
License Agreement ORAN-60-007 between Florida Central Railroad
Company, Inc. and Orange County for Utility Work Related to the All
American Boulevard Improvements Project
Contact Person: Lindy A. Wolfe, P.E., LEED AP, Manager
Utilities Engineering Division
407-254-9918**

Orange County Public Works is constructing roadway improvements on All American Boulevard from the intersection of Edgewater Drive and Clarcona-Ocoee Road to approximately 500 feet west of the intersection of Forest City Road (SR 434) and Kennedy Boulevard. Some of the county utility facilities are in direct conflict with the proposed roadway improvements and must be relocated.

The Florida Central Railroad Company, Inc. (FCEN) License Agreement authorizes Orange County to work within the FCEN's right-of-way for the installation of approximately 120 linear feet of 6" force main within 120 linear feet of 16" casing. Orange County will pay FCEN an annual license fee in the amount of \$981.82, in advance in annual payments on the anniversary date of this License as long as this License remains in force and effect. The annual license fee will increase on the anniversary date of this License Agreement in proportion to the increase in the Consumer Price Index, series CWUR0000AA0 annual data.

The Orange County Attorney's Office and Risk Management Division reviewed the agreement and find it acceptable. Utilities Department staff reviewed the agreement and recommends approval.

Action Requested: Approval and execution of License Agreement ORAN-60-007 by and between Florida Central Railroad Company, Inc. and Orange County for utility work related to the All American Boulevard Improvements Project.

District 2.

LICENSE AGREEMENT

THIS LICENSE AGREEMENT is made and entered into as of this 19th day of Sept, 2021 by and between **FLORIDA CENTRAL RAILROAD COMPANY, INC.**, a Florida corporation with an address of 3001 West Orange Avenue, Apopka, FL 32703 ("FCEN") and **ORANGE COUNTY**, a Charter County and Political subdivision of the State of Florida with an address of 201 South Rosalind Avenue, Orlando, FL 32801 (the "Licensee").

Preliminary Statement

- A. Licensee, for the economical and convenient conduct of Licensee's business, desires to obtain from FCEN a license to use a portion of FCEN's right of way leased to FCEN pursuant to a lease agreement between FCEN and CSX Transportation, Inc. (the "CSX Lease"), without establishing, claiming, or possessing any estate or interest therein (the "License"), for the benefit of Licensee.
- B. FCEN has the right, power and authority to enter into this License Agreement, pursuant to the CSX Lease.
- C. Licensee desires to construct and maintain an underground sanitary sewer force main and abandon and grout in place an existing 4" (four inch) force main in 16" (sixteen inch) casing as per Licensee Agreement ORAN-O62-016 (collectively, the "Pipes") within the License Area, defined below. No open cut is to be performed on railroad property.

NOW -THEREFORE, in consideration of the mutual promises contained herein the parties agree as follows:

1. GRANT OF LICENSE

FCEN hereby grants unto Licensee, its successors and assigns a License, with authority to enter upon, construct and maintain, pursuant to this License, the under FCEN's tracks and right of way near the intersection of Clarcona Ocoee Road and the proposed New All American Road crossing DOT# 92611SE Railroad milepost ST 808.58 Orlando, Orange County, Florida, approximately one thousand fifty (1050') feet northwest of Railroad Mile Post ST 809, DOT Crossing 622396Y (the "License Area"), described on Exhibit A, which is attached hereto and incorporated herein.

2. SUBJECT TO MASTER LEASE AGREEMENT

This License shall be subject to the terms and conditions of the CSX Lease, a memorandum of which is recorded in the public records in Bk 5098 P498 I.

3. STATUS OF SUBCONTRACTORS

For purposes of this Agreement, all references to Licensee shall include Licensee, its contractors, subcontractors, agents, officers, employees, and others acting under its or their authority.

4. USE

Licensee shall use the License Area for the construction, maintenance, repair, renewal, modification, relocation, reconstruction, removal, and operation of the Pipes that are the subject of this Agreement only for the conveyance of wastewater, and any other purpose or use is prohibited. Notwithstanding any contrary provisions herein, Licensee agrees that this License shall not be used in any way that will inhibit the use of the License Area by FCEN, its successors, or assigns. The Pipes shall be constructed, maintained and operated by Licensee in accordance with Exhibit A. In addition, an existing 4" (four inch) force main existing under License Agreement ORAN-O62-016 will be grouted and abandoned in place using quality materials and complying with any applicable standards of the industry.

5. CONDUCT OF WORK

All work connected with the construction, maintenance, repair, renewal, modification, relocation, reconstruction, or removal of the said Pipes shall be undertaken within the License Area. However, no such work shall be performed without prior written notice to, and approval of, FCEN's General Manager or designate. No open cut is to be performed on railroad property. Any and all work shall be performed in a manner satisfactory to FCEN. All work shall be performed at times and in a manner which shall not disturb the reasonable operation of the business of FCEN. At the sole discretion of FCEN's General Manager, flag protection services may be required during construction and periods of maintenance. Licensee, in accordance with Section 14 below, shall be responsible for all costs and expenses of any flagging service.

6. TERM

The term of the License Agreement shall run for a period of one (1) year from the above date. Thereafter, this Agreement shall automatically renew for successive one-year periods unless or until it is terminated as provided below. In no event shall the term of the License or this Agreement extend beyond the term of the CSX Lease.

7. DEFAULT

The failure by Licensee to perform any of its obligations when due under this License Agreement shall constitute an event of default (a "Default"). Upon default, FCEN may terminate this License Agreement upon thirty (30) days' notice to Licensee.

8. TERMINATION

Notwithstanding any contrary provisions contained herein, this Agreement may be terminated at any time by either FCEN or Licensee by giving to the other party thirty (30) days advance written notice of its intention to so terminate. In the event of

termination, Licensee shall remove the Pipes and restore the License Area as nearly as possible to as good order and condition as when original entry was made thereon by said Licensee, at its sole expense, cost and liability.

9. GOVERNMENT REQUIREMENTS

Installation of the Pipes pursuant to this License Agreement shall be performed in accordance with all appropriate governmental and administrative requirements for the use(s) for which such Pipes are to be maintained.

10. FCEN REGULATIONS

Licensee agrees that it shall observe and obey all regulations of FCEN respecting the use of the License and the License Area.

11. NON-PERMANENT LOCATION

Licensee recognizes that it may be in the best interest of FCEN to move the Pipes to other areas within FCEN's property, and therefore, Licensee agrees, at Licensee's cost and expense, to move or relocate the said Pipes at the reasonable request of FCEN. Licensee hereby agrees to effectuate and perform such move expeditiously and within reasonable constraints of time.

12. RISK, LIABILITY, INDEMNITY

12.1 To the extent permitted by law, Licensee shall defend, indemnify, and save FCEN and its officers, shareholders, directors, affiliates, parents, employees, and agents harmless, from and against, any and all liability, loss, claim, suit, damage, charge, or expense (including reasonable attorney's fees and experts) which any such party may suffer, sustain, incur, or in any way be subjected to, on account of death of, or injury to, any person and damage to or loss of or destruction of any property, arising out of, or resulting from, or in any way connected with, the construction, presence, existence, repair, maintenance, replacement, operation, use, or removal of Licensee's Pipes, the use of the License Area pursuant hereto or any structure in connection therewith, or restoration of the License Area to good order or condition.

12.2. Use of FCEN's right of way involves certain risks of loss or damage as a result of FCEN's operations. To the extent permitted by law, Licensee expressly assumes all risk of loss and damage to persons or Licensee's property or Pipes, in, on, over, or under the License Area, including loss of or any interference with use thereof, regardless of cause, including derailment, arising out of FCEN's operations. For purposes of this section, Licensee's property shall include the contents of the Pipes as well as property of third parties situated or placed upon FCEN's right of way by Licensee or by such third parties at the request of or for the benefit of Licensee.

12.3 Without limiting the generality of other provisions herein, to the extent permitted by law, Licensee also expressly assumes all risk of loss which may

result from Licensee's failure to maintain either the Pipes or the required depth and support for the Pipes.

12.4 Without limiting the generality of other provisions contained herein, to the extent permitted by law, Licensee assumes all responsibility for, and agrees to defend, indemnify, and hold FCEN and its officers, shareholders, directors, affiliates, parents, employees, and agents harmless from (a) all claims, costs, and expenses, including reasonable attorneys' fees as a consequence of any pollution of air, water, land, and/or ground water on or off the License Area, arising from, or in connection with, Licensee's use of this License Area or resulting from the leaking, bursting, spilling, or escape of the material transmitted in or through Licensee's Pipes; (b) any claim or liability arising under federal or state law dealing with pollution of air, water, land, and/or ground water arising from the circumstances referenced in (c) of this provision or the remedy therefrom or the remedy thereof; and (c) any subsidence or failure of lateral or subjacent support of FCEN's tracks.

12.5 Obligations of Licensee hereunder to defend, indemnify, and hold FCEN harmless shall also extend to companies or other legal entities that control or are under common control with FCEN and its/their respective officers, shareholders, directors, agents, and employees.

12.6 Nothing herein shall be construed as a waiver of Licensee's sovereign immunity.

12.7. Licensee's duty to defend, indemnify, and hold FCEN harmless shall survive the expiration and/or termination of this License Agreement and shall be subject to Section 768.28, Florida Statutes.

13. NOTICES

All notices on the part of Licensee to FCEN shall be given in writing to the General Manager, FLORIDA CENTRAL RAILROAD COMPANY, INC., 3001 West Orange Avenue, Apopka, Florida 32703.

All notices on the part of FCEN to Licensee shall be given in writing to the Director, Orange County Utilities Department, 9150 Curry Ford Road, Orlando, Florida 32825.

All notices shall be delivered in person or via overnight courier.

14. FCEN COSTS AND EXPENSES

Licensee agrees to pay to FCEN all reasonable costs and expenses incurred by FCEN due to FCEN's granting of this License or due to the use, maintenance, or existence of said License by Licensee. Such costs and expenses shall include, but are not limited to, FCEN's cost of providing flag protection services pursuant to Section 5 above. Licensee's cost for such flag protection services, or other safety

measures, shall be the then-current rate per day for the particular protection services that FCEN determines, in its sole discretion, are required after reviewing the needs of the work site.

15. COSTS AND ATTORNEYS' FEES

In the event FCEN retains the services of attorneys, other professionals, or persons in order to collect fees or other obligations from Licensee hereunder, FCEN shall be entitled to collect from Licensee all such attorneys' fees and costs for litigation and appeals thereof.

16. NO WARRANTIES

This License is herein granted without any warranty, express or implied, and Licensee hereby agrees that no damages shall be recoverable from FCEN because of any dispossession of Licensee or because of any failure of, defect in, cancellation of, or termination of, FCEN's property interest in the License Area.

17. ASSIGNMENT

No assignment of rights or privileges hereunder by Licensee shall be valid unless the written consent of FCEN is first obtained.

18. FUTURE PARTIES

This License shall inure to the benefit of, and be binding upon, the Parties hereto and their respective, heirs, legal representatives, successors, and assigns.

19. REMEDIES

The remedies under this Agreement are cumulative and shall not exclude any other remedies to which any party may be lawfully entitled. The failure or delay of any party to insist upon the strict or timely performance of a covenant hereunder or any obligation hereunder, shall not be a waiver of such party's right to demand strict compliance therewith in the future.

20. CAPTIONS

All titles or captions are inserted for convenience only and they in no way shall be construed to define, limit or describe the scope of this Agreement or any provision thereof.

21. SEVERABILITY

If any clause or provision of this Agreement shall be deemed to be invalid or unenforceable under present or future laws, then, in that event it is the intention of the Parties that the remainder of this Agreement shall not be affected thereby.

22. CHOICE OF LAW

This instrument is being delivered and is intended to be performed in the state of Florida and shall be construed and enforced in accordance with the laws of that state. Any aggrieved party may proceed to enforce its rights in the appropriate action at law or in equity. Venue for all suits arising out of this instrument shall lie

exclusively in the Courts of Orange County, Florida. By execution or adoption of this agreement, each party hereby submits itself to the *in personam* jurisdiction of the Courts of Orange County, Florida.

23. INSURANCE

During construction, maintenance, repair, renewal, modification, relocation, reconstruction, or removal of the said Pipes Licensee's contractor shall maintain insurance in the following amounts:

- (a) General liability insurance in the amount of Two Million dollars (\$2,000,000);
- (b) Contractual liability in the amount of Two Million dollars (\$2,000,000);
- (c) Worker's compensation, statutory limits or greater;
- (d) Automobile liability, One Million dollars (\$1,000,000); and
- (e) Railroad Protective Liability with bodily injury protection of Two Million dollars (\$2,000,000) and property damage of Two Million dollars (\$2,000,000).

All such insurance shall name FCEN as an additional insured. The original of the railroad protective liability policy shall be provided to FCEN and certificates of insurance evidencing Licensee's compliance with subparagraphs (a), (b), (c), (d), and (e) above shall be forwarded to FCEN prior to any work commencing on or within the License Area. Notwithstanding anything to the contrary, the insurance required under subparagraph (e) shall only be required during installation of the Pipes and whenever the Pipes will be reconstructed, updated, maintained, or otherwise improved.

24. MODIFICATION

All modifications or waivers to this License Agreement must be in writing and executed by both parties.

25. MERGER

This Agreement represents the final, complete, and exclusive understanding of the Parties of the subject matter hereto.

26. LICENSEE'S AUTHORITY TO EXECUTE THIS AGREEMENT

Licensee represents and warrants that it has taken all necessary actions required in order to enter into this License Agreement and cause it to be fully enforceable against Licensee, and that its agent below is authorized to execute this License Agreement.

27. ANNUAL FEE

Licensee shall pay to FCEN for this License, an annual license fee of Nine Hundred Eighty-One and 82/100 (\$981.82) Dollars, plus sales tax, if applicable. The license fee shall be payable in advance in annual payments on the anniversary date of this License for as long as this License remains in force and effect. Such annual license fee shall increase annually on each anniversary date of this License Agreement in

proportion to the increase in the Consumer Price Index, series CWUR0000AA0 annual data, as published by the United States Department of Labor, Bureau of Labor Statistics, over such index from the prior year; provided, however, that in no event shall the annual fee be less than Nine Hundred Eighty-One and 82/100 (\$981.82) Dollars. In the event Licensee fails to make the aforesaid annual payment, Licensee shall be considered to be in default therefore in accordance with Section 7 and 15 above and shall be responsible for all costs and expenses incurred in collection of this payment. In the event that FCEN has failed to invoice its pricing correctly for any year, FCEN shall have the power to retroactively adjust its price for any past year to conform to that past year's proper pricing schedule. Any retroactive price increase shall be paid for by Licensee together with the annual license fee.

IN WITNESS WHEREOF, the parties have executed this Agreement as a sealed instrument on the day, month and year first written above.

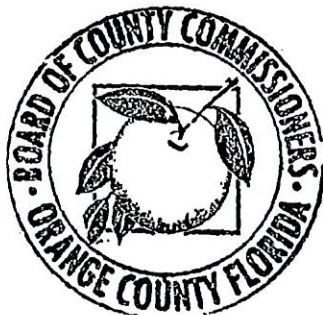
Signed and delivered in the presence of:

FLORIDA CENTRAL RAILROAD COMPANY, INC.

Witness
Print Name: Mark Meyer

By: Karen Kuivinen

Witness
Print Name: _____



ORANGE COUNTY, FLORIDA
By: Board of County Commissioners

By: Bruce B. Brown
for Jerry L. Demings
Orange County Mayor

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

By: Katie Smith
Deputy Clerk

EXHIBIT A
LICENSEE'S APPLICATION FOR PIPES CROSSING
(8 Pages)

Application for Facility Installation

Plans for proposed installation shall be submitted to and meet the approval and requirements of the Railroad Company before construction is begun. Material and installation are to be in strict accordance with specifications of the National Electrical Safety Code (NESC) or the American Railway Engineering Association (AREMA) which ever applies. An original Plan, Section and Elevation views from field survey showing location in respect to Mile Post, width of Railroad Right of Way, location of adjacent structures affecting crossing must accompany application. If open cutting or tunneling is necessary, details of sheeting and method of supporting tracks or driving tunnel shall also be shown. Flagging as defined by Railroad is required during installation and costs are responsibility of Agreement Holder.

THIS SECTION RAILROAD USE ONLY

12158 6/25/20 7:35 12 Jon D For

Date Application
Received by Road:

Application Fee:

RR Agreement
No:

ORAN-60-007

Railroad Approval: 8/26/20

Karen Kuivinen

Licensing Type:

A/R/R/L/R

Licensing
Amount:

\$981.82

FIELDS BELOW TO BE FILLED IN BY APPLICANT

Narrative		
Please provide a Description / Scope of work to be performed. (include purpose, scope of work, special conditions)		
<p>Approximately 125 LF of 16" steel casing pipe and 6" PVC sanitary sewer force main to be installed via Jack and Bore perpendicularly across the rail road right-of-way. Existing 4" FM to be abandoned and grouted in place ORAN-062-016</p>		
Installation Location Information		
City: Orlando	State: Florida	County: Orange
Railroad Location: Florida Central Railroad	GPS Latitude Entering ROW: 28.615168	GPS Longitude Entering ROW: -81.425067
Feet: 1050	Select a direction from nearest railroad mile post: NW	Mile Post No: 809
Angle between center line of right of way and occupancy will be (degrees): 105	No of RR Tracks to be crossed: 1	Total length within RR right of way measured in feet: 124
Will facility be located near a public roadway?: Yes	Proposed A/R American Street Name: Edgewater Drive	AAR/DOT Crossing Inventory Number: 926115E ST ROP SE 622396Y

Facility Owner Information		
Legal Information		
Owner's Complete Legal Company Name: Orange County Utilities		
Legal Address Line 1: 9150 Curry Ford Rd		
Legal Address Line 2:		
City: Orlando	State: Florida	Zip: 32825
Business Type: Municipality	Other Business Type:	State of Business Registration:
The following must be provided for the person who will sign off on agreement:	Name: Jerry L Demings	Title: Orange County Mayor

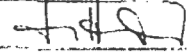
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Billing Information		
If same as legal address above, check here: <input checked="" type="checkbox"/>		
Billing City: Orlando	Billing State: Florida	Billing Zip: 32825
Billing Address Line 1: 9150 Curry Ford Rd	Billing Address 2:	
Owner Contact Information		
Contact Name: Jose Hernandez, PE	Title: Chief Engineer	E-mail: jose.hernandez2@ocfl.net
Office Phone: (407) 254-9718	Extension: n/a	Mobile Phone: n/a
Emergency Phone: (407) 836-5515		
Project Engineer/Consultant/Agent Information		
If same as legal address above, check here:	Engineer/Consultant/Agent Company Name:	Tetra Tech, Inc.
Contact Name: Jason Warren		
Address Line 1: 201 E Pine St		
Address Line 2: Suite 1000		
City: Orlando	State: Florida	Zip: 32801
Office Phone: (407) 480-4404	Mobile Phone: (224) 623-3968	E-mail: jason.warren@tetratech.com
Project Information		
Is this covered by existing Railroad permit/agreement or master agreement?		
Is this project related to another transaction/project with railroad?	Yes	If yes, describe: All American Blvd Roadway Project
Is this a new installation? Upgrade/Replacement/Relocation of Existing Facilities <small>New installation in Railroad ROW</small>		If this is not a new installation, proceed with completing this form for the upgrade/replacement/relocation/change.
Will proposed installation connect to an existing facility within railroad corridor?	No	
Type of installation: Pipe	Method: Sub-grade	<i>Plans of any sub-grade ≥30" diameter are subject to review by Engineers of Railroad choice at cost & expense of facility owner.</i>
Will this installation be parallel to railroad company tracks anywhere in excess of 150 feet?	No	If yes indicate length in feet:

Sub-grade Installation Information		
If sub-grade, select the proposed method of installation: Jack & Bore		
Bury: Base of rail to top of casing:	5.50' min	
Bury: Not beneath tracks:	4.50'	
Bury: Roadway ditches:	4.50'	
Temporary track support or rippapping required: No		
Wires, pole obstructions to be relocated: No		
Pipe Installation		
Pipe Type: Water – Force Main	Flammable: No	
Max working pressure (PSI): 100	Test Pressure Type: 150	
Pipe Specifications	Carrier Pipe	Casing Pipe
Materials Specs & Grade	AWWA C900 DR18 PVC	ASTM A 139 Grade B Steel
Minimum Yield Strength of Material PSI	4,000 psi	35,000
Min Test Pressure PSI	470 psi	650 psi
Inside Diameter	6.134"	15.5"
Wall Thickness	0.383"	0.25"
Outside Diameter	6.900"	16.0"
Type of Seam	None	Spiralweld
Laying Lengths	20.0'	20.0'
Kind of Joints	Restrained (Outside restraint)	Restrained (Welded)
Number of Vents: 0	Size of Vents: n/a	Height Above Ground: n/a
Seals: Both Ends	Cathodic Protection: No	Protective Coating: Yes
Type, size and spacing of insulators or supports: Type 304 stainless steel casing spacers min 8" wide, max 6.5' spacing		

If application is approved, applicant agrees to reimburse the Railroad for any cost incurred by the railroad incident to installation, maintenance, and/or supervision necessitated by this installation and further agrees to assume all liability for accidents or injuries which arise as a result of this installation.

IF THE APPLICATION IS APPROVED, THE APPLICANT SHALL EXECUTE THE RAILROAD'S STANDARD FORM OF LICENSE AGREEMENT. IN THE EVENT THE RAILROAD INCURS LEGAL FEES IN EXCESS OF \$500 IN CONNECTION WITH THE COMPLETION OF THE LICENSE AGREEMENT THE APPLICANT SHALL PAY FOR ALL SUCH LEGAL FEES OF THE RAILROAD IN EXCESS OF \$500. WHETHER APPROVED OR DENIED, IN THE EVENT LITIGATION ARISES OUT OF OR IN CONNECTION WITH THIS APPLICATION OR THE UNDERLYING SUBJECT MATTER OF THIS APPLICATION, THE APPLICANT SHALL BE RESPONSIBLE FOR, AND AGREES TO PAY, ALL ATTORNEY'S FEES AND COSTS INCURRED BY THE RAILROAD. THE APPLICANT AGREES THAT THERE IS VALID CONSIDERATION EXCHANGED BY ALL PARTIES HERETO TO SUPPORT ALL OBLIGATIONS CREATED BY THIS APPLICATION.

Date:	11/22/2019	Written Signature	
Title of Officer		Printed Name of Officer	
Signing Application:	Chief Engineer	Signing Application:	José HERNÁNDEZ

ORANGE COUNTY UTILITIES ALL AMERICAN BOULEVARD FORCE MAIN & WATER MAIN IMPROVEMENTS PROJECT

201 EAST PINE STREET, SUITE 1000
ORLANDO, FLORIDA 32803
407-836-3655 FAX: 407-836-3790



TETRA TECH

CONSTRUCTION DRAWINGS FOR

ORANGE COUNTY BOARD
OF COUNTY COMMISSIONERS

ORANGE COUNTY MAYOR
JERRY DEMINGS

COUNTY ADMINISTRATOR
BYRON W. BROOKS, A.L.C.P

DIRECTOR OF UTILITIES
RAY HANSON, P.E.



ORANGE COUNTY BOARD
OF COUNTY COMMISSIONERS

DISTRICT 1
BETSY VANDERLEY

DISTRICT 2
CHRISTINE MOORE

DISTRICT 3
MAYRA URIBE

DISTRICT 4
MARIBEL GOMEZ CORDERO

DISTRICT 5
EMILY BONILLA

DISTRICT 6
VICTORIA P. SIPLIN

PREPARED FOR

UTILITIES ENGINEERING
ORANGE COUNTY, FLORIDA

PROJECT LOCATION:

ORANGE COUNTY, FL

CLIENT INFORMATION:

ORANGE COUNTY UTILITIES
8150 CURRY FORD ROAD
ORLANDO, FLORIDA

TI PROJECT No.:

200-10014-1001

OCU SEQUENCE NO. 44205

WASTEWATER SUB SEQUENCE NO. 1504-19

WATER SUB SEQUENCE NO. 1482-20

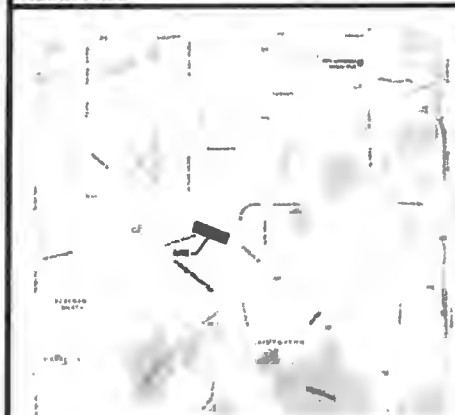
PROJECT DESCRIPTION / NOTES:

INSTALLATION OF APPROXIMATELY 438 LF OF 8-INCH WATER MAIN AND 1,233 LF OF
8-INCH WASTEWATER FORCE MAIN, AND TO THE REMOVAL/ABANDONMENT OF
APPROXIMATELY 2,033 LF OF 8-INCH FORCE MAIN AND 8-INCH WATER MAIN

ISSUED:

S&B REVIEW SUBMITTAL - OCTOBER 2019

VICINITY MAP



ABBREVIATIONS

ARV	AIR RELEASE VALVE	MJ	MECHANICAL JOINT
BOV	BLOW-OFF VALVE	N.T.S	NOT TO SCALE
BUR	BURIED	OCU	ORANGE COUNTY UTILITY
CL	CENTERLINE	DEPATRTMENT	
CATV	CABLE TELEVISION	OD	OUTSIDE DIAMETER
CMP	CORRUGATED METAL PIPE	PI	POINT OF INTERSECTION
DIP	DUCTILE IRON PIPE	PP	POWER POLE
EA	EACH	PV	PLUG VALVE
ELEC	ELECTRIC	PVC	POLYVINYL CHLORIDE
ELEV.	ELEVATION	RAW	RIGHT OF WAY
EDP	EDGE OF PAVEMENT	RCP	REINFORCED CONCRETE PIPE
EXST.	EXISTING	RJ	RESTRAINED JOINT
FH	FIRE HYDRANT	RT.	RIGHT
FM	FORCE MAIN	S.R.	STATE ROAD
FOC	FIBER OPTIC CABLE	SS	STAINLESS STEEL
FT	FEET	STA.	STATION
GV	GATE VALVE	SV	SANITARY SEWER VALVE
HORIZ	HORIZONTAL	TB	TEST BORING
INV.	INVERT	TEL	TELEPHONE
IR	IRON ROD	TS	TAPPING SLEEVE
LF	LINEAR FEET	TV	TAPPING VALVE
LS	LINE STOP	TYP.	TYPICAL
LT.	LEFT	UT	UNDERGROUND TELEPHONE
		UTV	UNDERGROUND CABLE TV
		UTL	UTILITY
		VERT	VERTICAL
		WM	WATER MAIN
		WV	WATER VALVE

UTILITY CONTACTS

COMPANY	TELEPHONE
ORANGE COUNTY DISPATCH	407- 630-2777
ORANGE COUNTY UTILITIES - WATER	407- 254-0830
ORANGE COUNTY UTILITIES - WATER RECLAMATION	407- 254-0860
PROGRESS ENERGY - ELECTRIC	352- 942-0308
BRIGHT HOUSE - CABLE TV	407- 532-8508
BELL SOUTH - TELEPHONE	407- 273-5084
PEOPLES GAS - GAS	407- 422-3861
ORLANDO UTILITIES COMMISSION - WATER	407- 423-0018

LEGEND

—	LIGHT POLE	---	RAW LINE
—	GUY ANCHOR	---	EXST. UNDERGROUND TELEPHONE
—	POWER POLE	---	EXST. UNDERGROUND CABLE TV
—	EXST. BACKFLOW PREVENTER	---	EXISTING OVERHEAD ELECTRIC
—	EXST. FIRE HYDRANT	---	EXISTING WATER MAIN
—	STORM DRAINAGE MAN-HOLE	---	EXISTING FORCE MAIN
—	SIGN	---	EXISTING GAS MAIN
—	WATER METER	---	EXST. CONTOUR LINE
—	TREE	---	PROPOSED WATER MAIN
—	TRAFFIC SIGNAL CONTROL CABINET	---	PROPOSED FORCE MAIN
—	MAILBOX	---	PIPE TO BE REMOVED
—	TRAFFIC SIGNAL POLE (CONC.)	---	GROUT AND ABANDONED IN PLACE
—	WIRE PULLBOX	---	OPEN-CUT
—	EXST. VALVE	---	ASPHALT PAVEMENT
—		—	DIRECTIONAL DRILL
—		—	BENCH MARK
—		—	AIR RELEASE VALVE - PLAN VIEW
—		—	AIR RELEASE VALVE - PROFILE VIEW
—		—	PROPOSED VALVE
—		—	PROPOSED FIRE HYDRANT
—		—	PROPOSED LINE STOP

DRAWING INDEX

SHEET NO	SHEET TITLE
U-1	COVER SHEET
U-2	ABBREVIATIONS, LEGEND AND DRAWING INDEX
U-3	COVER SHEET
U-4	COVER SHEET
U-5	COVER SHEET
U-6	COVER SHEET
U-7	COVER SHEET
U-8	COVER SHEET
U-9	COVER SHEET
U-10	COVER SHEET
U-11	COVER SHEET
U-12	COVER SHEET
U-13	COVER SHEET
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U-99	COVER SHEET
U-100	COVER SHEET



ORANGE COUNTY UTILITIES
ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THE DRAWING INDEX.

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