TOWN OF WINDERMERE
EXECUTIVE SUMMARY

SUBJECT: **RFP 2019-03 Bayshore Drive Drainage Improvements**

REQUESTED ACTION: **Staff Recommends Approval**

☐ Work Session (Report Only) **DATE OF MEETING:** **August 13, 2019**
☒ Regular Meeting ☐ Special Meeting

CONTRACT: ☐ N/A Vendor/Entity: Gregori Construction, Inc.

Effective Date: 08/14/2018 Termination Date: 08/15/2020
Managing Division / Dept: Public Works

BUDGET IMPACT: **Not To Exceed $65,000.00**

☐ Annual **FUNDING SOURCE:** **CIP Stormwater Projects**
☒ Capital **EXPENDITURE ACCOUNT:** **004 5380 000 7530**
☐ N/A

HISTORY/RECOMMENDATIONS:

Mayor & Council,

History
The Eastern end of Bayshore Drive, at the curve, captures the stormwater runoff from a large area of the road. For this, when afternoon rain events occur, the roadway and adjacent Rights of Way hold water thus causing unsafe conditions in the roadways and rights-of-way.

Recommendation
Bids were solicited thru RFP #2019-03 Bayshore Drive Drainage Improvements via DemandStar and the Town website. Five (5) vendors submitted qualified bids (see the attached breakdown for contractor/s and costing):

As noted from the five (5) contractor responses, they are all well qualified in the installation of underground stormwater culvert and general construction. They also have long-term experience in these services. The responses also indicate that the costing from each bidder is comparable, on an average, against each respondent.

For this, Staff recommends that the Town Council awards the contract to Gregori Construction, Inc. as they have the equipment and manpower to complete the project as advertised.

MGEC/ Michael Galura Engineering Consultants, LLC

July 16, 2019

TOW-022
1-1.0

Mr. Scott Brown
Public Works Director
Town of Windermere
614 Main Street
Windermere, Florida 34786

Re: **BID NO. 2019-03**
BAYSHORE DRIVE DRAINAGE IMPROVEMENTS
Town of Windermere, Florida

Subj: **RECOMMENDATION OF AWARD**

Dear Mr. Smith:

On Wednesday, June 26th, 2019, the Town of Windermere received sealed construction bids for the above referenced project from five (5) prospective contractors. The bids were tabulated based on bid proposals for the Total Bid.

The bid review indicates Gregori Construction, Inc. to be the apparent low bidder with a Total Bid proposal of **$64,280**. The second apparent low bidder is Valencia Construction Group, with a total bid proposal of $67,500.

A review of the bid tabulations revealed no arithmetic errors for the five (5) apparent low bidders. Based on the attached bid tabulations, the ranking remains the same, from lowest bidder to the fifth lowest bidder, and is summarized as follows:

Rank	Description	Contractor	Total Bid Price
1	Lowest Bidder	Gregori Construction, Inc.	**$64,280.00**
2	Second Lowest Bidder	Valencia Construction Group	$67,500.00
3	Third Lowest Bidder	Barracuda Building Corporation	$68,680.00
4	Fourth Lowest Bidder	SanPik, Inc.	$89,691.00
5	Fifth Lowest Bidder	Cathcart Construction Co.	$141,943.00

The bid proposals of the five (5) apparent low bidders are complete and properly indicated in the attached Bid Checklist form. They have acknowledged receipt of all addenda as required and have submitted proposals to comply with the Town's bidding requirements. While other requirements must be verified by the Town, we believe that these bid

3222 Corrine Drive, Suite H Orlando, FL 32803 (407) 493-9983

proposals are in conformance with all material respect to the invitation for bids and are, therefore, responsive bids.

Based upon the information presented in the bid proposals, each of the five (5) apparent low bidders are licensed contractors in the State of Florida and seem to possess the manpower and equipment necessary to perform the classes of work contemplated within the specified contract time. We have also contacted the references for the low bidder (Gregori Construction, Inc.), which is summarized in the attached Bid Reference List. During the reference check process, a number of references were interviewed. This was done to determine the ability and competency of the low bid contractor to conduct the work; the ability of the contractor to complete the work in a timely fashion and whether the contractor provided good communication and was responsive to the Owner. The reference check process also asked whether any significant change orders were issued during the course of construction; whether the contractor showed initiative and willingness to resolve construction-related issues; and whether the contractor is in good standing with the reference interviewed.

In addition, a representative of the low bid contractor (Gregori Construction, Inc..) was interviewed to determine the availability of manpower and equipment to complete the above reference project concurrently with any other projects awarded to the contractor. The contractor representative affirmatively acknowledged that they had sufficient manpower and equipment to complete the project in a timely manner, regardless of other concurrent projects beyond this project.

A comparison of the low bidder total and the estimated project budget was conducted to ascertain the comparison of unit prices and total prices. The estimated project budget was $60,501.00 and the low bidder's total bid was $64,280.00, a difference of $3,779.00 or an increase of 6.25 % above the Engineer's estimate. We find this increase to be within the Town's budgetary constraints and the current construction market value.

Based on our review of the submittals from each of the five (5) apparent low bidders, we find that Gregori Construction, Inc., is the lowest responsible, responsive bidder. **Therefore, we recommend that the referenced construction contract for be awarded to Gregori Construction, Inc., based on their total bid proposal of $64,280.00.**

We are submitting this recommendation on the good faith that the information provided to the Town and MGEC/Michael Galura Engineering Consultants by the references interviewed and the low bid contractor is truthful and accurate.

If you have any questions, please do not hesitate to contact me directly at (407) 493-9983 or by e-mail at mchgalu@aol.com.

Respectfully,

***MGEC*/Michael Galura Engineering Consultants, LLC**

Michael B. Galura

Michael B. Galura, P.E.
President/Principal Engineer

C:\Users\Michael\Documents\My Projects\TOW-022 Bayshore Drive Drainage Improvements\Post-Design\Awarding of Bid\Letter to Scott Brown (Recommendation of Award).docx.doc

Enclosure

cc: Robert Smith, Town of Windermere
Dorothy Burkhalter, Town of Windermere
John Fitzgibbon, Town of Windermere

BID CHECKLIST	
PROJECT DATA	**BIDDER INFORMATION**
Owner: Town of Windermere	Name: Gregori Construction, Inc.
Location: 614 Main Street Windermere, Florida 34786	Address: 3950 South Street Titusville, Florida 32780 Phone: (321) 593-9103 Fax: (321) 806-1765
Contract: **Bid No. 2019-03** **Bayshore Drive** **Drainage Improvements**	Contractor's No.: CGC1512990 CUC1224399

Checklist	Check One			Comments
	Yes	No	N/A	
Acknowledges all Addenda?	✓			No Addendums Issued
Incomplete unit prices?		✓		
Conditional bid?		✓		
Bid Proposal properly signed?	✓			
Serious bid omissions?		✓		
Local Agency/Federal Aid Program Certification			✓	
Drug Free Workplace Certification?	✓			
Equal Employment Opportunity Certification?	✓			
Non-Collusion Oath?	✓			
Good Faith Affidavit?	✓			
Bid Bond or Cashier's Check?			✓	
References?	✓			
Licenses?	✓			
Certificate of FDOT Qualification			✓	

✓ in box for properly completed Bid

BID CHECKLIST	
PROJECT DATA	**BIDDER INFORMATION**
Owner: Town of Windermere	Name: Valencia Construction Group
Location: 614 Main Street Windermere, Florida 34786	Address: P.O. Box 784621 Winter Garden, Florida 34778 Phone: (407) 614-5870 Fax:
Contract: **Bid No. 2019-03** **Bayshore Drive** **Drainage Improvements**	Contractor's No.:

Checklist	Check One			Comments
	Yes	No	N/A	
Acknowledges all Addenda?	✔			No Addendums Issued
Incomplete unit prices?		✔		
Conditional bid?		✔		
Bid Proposal properly signed?	✔			
Serious bid omissions?		✔		
Local Agency/Federal Aid Program Certification			✔	
Drug Free Workplace Certification?	✔			
Equal Employment Opportunity Certification?	✔			
Non-Collusion Oath?	✔			
Good Faith Affidavit?	✔			
Bid Bond or Cashier's Check?			✔	
References?	✔			
Licenses?			✔	
Certificate of FDOT Qualification			✔	

✔ in box for properly completed Bid.

BID CHECKLIST

PROJECT DATA	BIDDER INFORMATION
Owner: Town of Windermere	Name: Barracuda Building Corporation
Location: 614 Main Street Windermere, Florida 34786	Address: 1000 Ocoee-Apopka Road, Suite 400 Apopka, Florida 32703 Phone: (407) 814-8644 Fax:
Contract: **Bid No. 2019-03** **Bayshore Drive** **Drainage Improvements**	Contractor's No.: CGC1504612

Checklist	Check One			Comments
	Yes	No	N/A	
Acknowledges all Addenda?	✓			No Addendums Issued
Incomplete unit prices?		✓		
Conditional bid?		✓		
Bid Proposal properly signed?	✓			
Serious bid omissions?		✓		
Local Agency/Federal Aid Program Certification			✓	
Drug Free Workplace Certification?	✓			
Equal Employment Opportunity Certification?	✓			
Non-Collusion Oath?	✓			
Good Faith Affidavit?	✓			
Bid Bond or Cashier's Check?			✓	
References?	✓			
Licenses?		✓		
Certificate of FDOT Qualification			✓	

✓ in box for properly completed Bid.

BID CHECKLIST	
PROJECT DATA	**BIDDER INFORMATION**
Owner: Town of Windermere	Name: SanPik, Inc.
Location: 614 Main Street Windermere, Florida 34786	Address: 3551 W. Lake Mary Boulevard, Suite 210 Lake Mary, Florida 32746 Phone: (407) 988-1033 Fax:
Contract: **Bid No. 2019-03** **Bayshore Drive** **Drainage Improvements**	Contractor's No.: CUC1225224

Checklist	Check One			Comments
	Yes	No	N/A	
Acknowledges all Addenda?	✓			No Addendums Issued
Incomplete unit prices?		✓		
Conditional bid?		✓		
Bid Proposal properly signed?	✓			
Serious bid omissions?		✓		
Local Agency/Federal Aid Program Certification			✓	
Drug Free Workplace Certification?	✓			
Equal Employment Opportunity Certification?	✓			
Non-Collusion Oath?	✓			
Good Faith Affidavit?	✓			
Bid Bond or Cashier's Check?			✓	
References?	✓			
Licenses?	✓			
Certificate of FDOT Qualification			✓	

✓ in box for properly completed Bid.

BID CHECKLIST	
PROJECT DATA	**BIDDER INFORMATION**
Owner: Town of Windermere	Name: Cathcart Construction Company – Florida LLC
Location: 614 Main Street Windermere, Florida 34786	Address: 2564 Connection Point Oviedo, Florida 32765 Phone: (407) 629-2900 Ext 18 Fax: (321) 203-4900
Contract: **Bid No. 2019-03** **Bayshore Drive** **Drainage Improvements**	Contractor's No.: CGC051005 CUC057230

Checklist	Check One			Comments
	Yes	No	N/A	
Acknowledges all Addenda?	✔			No Addendums Issued
Incomplete unit prices?		✔		
Conditional bid?		✔		
Bid Proposal properly signed?	✔			
Serious bid omissions?		✔		
Local Agency/Federal Aid Program Certification			✔	
Drug Free Workplace Certification?	✔			
Equal Employment Opportunity Certification?	✔			
Non-Collusion Oath?	✔			
Good Faith Affidavit?	✔			
Bid Bond or Cashier's Check?			✔	
References?	✔			
Licenses?	✔			
Certificate of FDOT Qualification			✔	

✔ in box for properly completed Bid.

PROJECT: TOWN OF WINDERMERE
CONTRACT NAME: BAYSHORE DRIVE DRAINAGE IMPROVEMENTS
BID NO. 2019-03

Item	REFERENCES FOR: GREGORI CONSTRUCTION, INC.		
	No. 1	No. 2	No. 3
Contact Person	Jesus Vieiro	Benjamin Bartlett	Nicolas Gagliardo
Date Contacted	July 15, 2019	July 15, 2019	July 15, 2019
Organization	City of Titusville	Volusia County Road and Bridges Division	City of Palm Bay
Telephone No.	(321) 567-3733 Jesis.vieiro@titusville.com	(386) 822-6422 bbartlett@volusia.org	(321) 952-3400 Nicholas.gagliardo@palmbayflorida.com
Project Name	Main Street and Sycamore Baffle Boxes (Completed June 22, 2018)	Gemini Springs Baffle Boxes (Completed June 13, 2018)	City of Edgewood Roadway Improvements (Completed August 2018)
Contract Amount	$965,587	$287,970	$842,141
Owner	City of Titusville	County of Volusia	City of Palm Bay
Completed on Schedule	Yes	Yes	Yes
Change Orders	Yes (City incurred)	No	No
Comments:	The City was very pleased with the work by Gregori Construction on the installation of the baffle boxes at the intersection of Main Street and Sycamore Street in Titusville. The City issued a change order to Gregori Construction to make adjustments to the baffle box plan due to unforeseen conflicts that were encountered during construction. Gregori worked with the City on making the change and still maintained the project schedule. Gregori Construction is also retained by the City for continuing construction work including sewer and drainage improvements as directed b the Public Works Department.	The project involved the construction of baffle boxes within the Gemini Springs County Park to provide water quality improvements of stormwater runoff before discharging into the springs. The County was very pleased with the work conducted by Gregori Construction, which constructed the baffle box project on time and within budget. No change orders were incurred during construction.	The City was pleased with the work Gregori Construction did on the City of Palm Bay box culvert improvements. This project was for the replacement of existing culverts on the C-75 Canal, Pembroke, Emerson and Pebble for the City. Three (3) separate CMP culverts were replaced along the Melbourne-Tillman Water Control District Canal No. 75. The box culverts were pre-cast 9'x6', 9'x7' and 10'x6' in size with cast-in-place headwalls and wingwalls. No change orders were issued by the City to Gregori Construction.

PROJECT: TOWN OF WINDERMERE

CONTRACT NAME: FIRST AVENUE AND FOREST STREET DRAINAGE IMPROVEMENTS
BID NO. 2017-05

Item	REFERENCES FOR: ALL STATE PAVING AND SITE DVELOPMENT, INC.		
	No. 4	No. 5	No. 6
Contact Person			
Date Contacted			
Organization			
Telephone No.			
Project Name			
Contract Amount			
Owner			
Completed on Schedule			
Change Orders			
Comments:			

TOWN OF WINDERMERE
BAYSHORE DRIVE DRAINAGE IMPROVEMENTS
WINDERMERE, FLORIDA
BID NO. 2019-03
BID TABULATION (BID OPENING JUNE 26, 2019)

BID ITEM NO.	FDOT ITEM NO.	ITEM DESCRIPTION	EST'D. QTY.	UNIT	Gregori Construction, Inc.		Valencia Construction Group		Barracuda Building Corp.		SanPik, Inc.		Cathcart Construction Co.	
					UNIT PRICE (FIGURES)	TOTAL PRICE (FIGURES)	UNIT PRICE (FIGURES)	TOTAL PRICE (FIGURES)	UNIT PRICE (FIGURES)	TOTAL PRICE (FIGURES)	UNIT PRICE (FIGURES)	TOTAL PRICE (FIGURES)	UNIT PRICE (FIGURES)	TOTAL PRICE (FIGURES)
1	101-1	Mobilization/Demobilization (5% of items below)	1	LS	$4,500.00	$4,500.00	$3,000.00	$3,000.00	$3,442.00	$3,442.00	$4,271.00	$4,271.00	$7,000.00	$7,000.00
2	101-2	Survey, Layout and Certified As-Built	1	LS	$6,500.00	$6,500.00	$3,800.00	$3,800.00	$5,840.00	$5,840.00	$10,000.00	$10,000.00	$2,000.00	$2,000.00
3	102-1	Maintenance of Traffic	1	LS	$1,500.00	$1,500.00	$1,400.00	$1,400.00	$1,775.00	$1,775.00	$6,000.00	$6,000.00	$1,000.00	$1,000.00
4	104-4	Prevention, Control and Abatement of Erosion and Water Pollution	1	LS	$2,750.00	$2,750.00	$4,000.00	$4,000.00	$1,997.00	$1,997.00	$2,500.00	$2,500.00	$4,000.00	$4,000.00
5	110-10	Removal and Disposal of Concrete (curb and gutter, sidewalk, driveway, etc.)	78	SY	$50.00	$3,900.00	$55.00	$4,290.00	$24.00	$1,872.00	$30.00	$2,340.00	$50.00	$3,900.00
6	120-9	Excavation, Embankment and Grading	1	LS	$7,000.00	$7,000.00	$8,525.00	$8,525.00	$5,332.00	$5,332.00	$15,000.00	$15,000.00	$61,143.00	$61,143.00
7	425-15-21	Inlets, DT Bot, Type C<10' (with single non-traversable slot)	1	EA	$3,500.00	$3,500.00	$4,000.00	$4,000.00	$5,684.00	$5,684.00	$5,000.00	$5,000.00	$8,000.00	$8,000.00
8	425-15-41	Inlets, DT Bot, Type D<10' (with dual non-traversable slot)	1	EA	$3,500.00	$3,500.00	$5,000.00	$5,000.00	$6,780.00	$6,780.00	$6,000.00	$6,000.00	$8,000.00	$8,000.00
9	430-175-112	Pipe Culvert, Concrete, Class III, Horizontal Elliptical, 14"x23" (Equiv. 18")	102	LF	$100.00	$10,200.00	$145.00	$14,790.00	$180.00	$18,360.00	$185.00	$18,870.00	$200.00	$20,400.00
10	430-984-625	Mitered End Section, Optional - Elliptical/Arch, 14"x23" Side Drain	3	EA	$1,500.00	$4,500.00	$2,100.00	$6,300.00	$1,802.00	$5,406.00	$1,600.00	$4,800.00	$2,000.00	$6,000.00
11	522-2	Sidewalk, Concrete, 6" Thick (Driveway)	78	SY	$115.00	$8,970.00	$65.00	$5,070.00	$98.00	$7,644.00	$70.00	$5,460.00	$150.00	$11,700.00
12	530-3-4	Riprap, Rubble, F&I, Ditch Lining	5	TN	$400.00	$2,000.00	$285.00	$1,425.00	$108.00	$540.00	$650.00	$3,250.00	$400.00	$2,000.00
13	530-74	Bedding Stone (115 lb/SF)	4	TN	$325.00	$1,300.00	$175.00	$700.00	$92.00	$368.00	$250.00	$1,000.00	$400.00	$1,600.00
14	570-1-2	Performance Turf, Sod (Match Existing)	520	SY	$8.00	$4,160.00	$10.00	$5,200.00	$7.00	$3,640.00	$10.00	$5,200.00	$10.00	$5,200.00
				TOTAL		$64,280.00		$67,500.00		$68,880.00		$89,691.00		$141,943.00
		RANKING OF BIDDERS (LOWEST TO HIGHEST)			1		2		3		4		5	

THE TOWN OF WINDERMERE

REQUEST FOR PROPOSALS
for
RFP #2019-03 Bayshore Drive Drainage Improvements

RFP #2019-03

DUE: June 26, 2019
10:00 A.M.

Deliver or mail responses to:
Scott A Brown, Public Works Director
Town of Windermere
614 Main Street
Windermere, FL 34786

REQUEST FOR PROPOSALS (RFP)
for
BAYSHORE DRIVE DRAINAGE IMPROVEMENTS

Overview

The Town of Windermere, FL (Town) invites qualified firms (Respondent) to respond to this Request for Proposals (RFP) to provide underground storm water drainage and swale improvements construction along Bayshore Drive in our Town.

All services shall comply with local, State, and Federal regulations. A comprehensive scope of work is included as Exhibit B to Attachment A.

SBE/MBE Participation

Please note that the Town encourages the participation of small business enterprises (SBEs) and/or minority business enterprises (MBEs) in this procurement.

Term

Upon acceptance of the terms by both the Respondent and the Town, the Town intends to enter into a One Hundred Eighty (180) day contract term to begin on the effective date. Extensions will be mutually agreed upon prior to the expiration of the original term, incorporating the same terms and conditions as the original agreement.

Submittal Requirements

Respondents desiring to provide services, as described in the scope of services, shall submit one (1) original unbound and one (1) digital copy (USB) of their proposal no later than:

> **10:00 A.M. on June 26, 2019** at the following location:
> **614 Main Street, Windermere, Florida 34786**

Offers by telephone or telegram shall not be accepted. Also, proposers are instructed NOT to fax their proposal. Faxed proposals shall be rejected as non-responsive regardless of where the fax is received.

Respondents are cautioned that they are responsible for delivery to the specific location cited above. Therefore, if your proposal is delivered by an express mail carrier or by any other means, it is your responsibility to ensure delivery to the above address. This office will not be responsible for deliveries made to any place other than the specified address.

It is the sole responsibility of the bidder to ensure that his or her proposal reaches the Town. The time and date for receipt of proposals will be strictly observed. Any proposals received after the submittal deadline will be deemed non-responsive and returned to the Respondent unopened.

Questions/Inquiries
The Town will accept inquiries or questions regarding the contents of this RFP until one (1) week prior to the submittal deadline. Answers to questions will be addressed through addenda and issued no later than four (4) days prior to the submittal deadline. If the Town is unable to provide answers in a timely manner, the submittal deadline may be extended as necessary.

Inquiries and Questions should be directed to the following contact:

Scott A Brown, Public Works Director – sbrown@town.windermere.fl.us

Minimum Qualifications
The Respondent must demonstrate the following:

1. The bidder must demonstrate experience and have the proper equipment for managing underground storm water construction in various situations.

2. Documented knowledge, licensure and experience of Federal, State and Local regulations pertaining to and for underground construction in Orange County, Florida.

Proposal Format
The Proposal should be limited to no more than 10 pages (exclusive of required forms) and address the following criteria in an organized, easily identifiable manner:

1. Cover Letter – Provide a cover letter that included a brief introduction to the Respondent, why the Respondent believes they are uniquely qualified to provide the requested services, and contact information for the Respondent's primary point of contact.

2. Qualifications – Provide evidence that the firm meets the minimum qualifications required by this RFP and include a minimum of 3 references from clients whom the Respondent has provided similar services in the past 5 years. Please include the name of the client, contact information, contract term and value, and the amount of debris monitored. References from Florida clients are preferable.

3. Project Understanding and Approach – Provide an understanding of the solicited services and the Respondent's approach to providing these services.

4. Form of Contract – The form of the Contract to be used by the Town is attached hereto as Attachment A along with Exhibits A – E. The Respondent must include a statement that it has reviewed Attachment A and Exhibits A – E and agrees to be bound by the terms and conditions. The contract terms and conditions in Attachment A and Exhibits A – E are not negotiable.

5. Complete and submit with the Proposal the following forms:
   a. Quote – Exhibit C to Attachment A
   b. Drug Free Workplace Certification – Attachment B
   c. Equal Employment Opportunity Certification – Attachment C
   d. Non-Collusion Oath – Attachment D
   e. Good Faith Affidavit – Attachment E

Presentations

Presentations from the top-ranked respondents may be requested at the Town's discretion if the Town is unable to determine an awardee based on proposal alone.

Terms and Conditions

The Town reserves the right to accept or reject any or all proposals, with or without cause, to waive technicalities, or to accept the proposal which, in its sole judgment, best serves the interest of the Town, or to award a contract to the next most qualified proposer if the successful offer fails to execute a contract within (10) days of approval by the Town.

The Town reserves the right to request clarification of information submitted and to request additional information of one or more Respondents.

Any proposal may be withdrawn until the date and time set above for the submission of the proposals. Any proposal not so withdrawn shall constitute an irrevocable offer, for a period of thirty (30) days, to provide to the Town the services set forth in this RFP, or until one or more of the Respondents have been awarded.

Costs of preparation of a response to this request for proposals are solely those of the proposer. The Town assumes no responsibility for any such costs incurred by the proposer. The proposer also agrees that the Town bears no responsibility for any costs associated with any administrative or judicial proceedings resulting from the solicitation process.

The contractor awarded this contract shall maintain adequate records to justify all charges, expenses, and costs incurred in estimating and performing the work for at least five (5) years after completion of the contract resulting from this RFP. The Town shall have access to all records, documents and information collected and/or maintained by others in the course of the administration of the agreement. This information shall be made accessible at the awardees place of business to the Town, for purposes of inspection, reproduction and audit without restriction.

Attachments and Exhibits:

Attachment A – Contract Agreement for Bayshore Drive Drainage Improvements

- **Exhibit A to Attachment A** – Respondent's Response to the RFP
- **Exhibit B to Attachment A** – Scope of Work
- **Exhibit C to Attachment A** – Quote

Attachment B -- Drug Free Workplace Certification
Attachment C – Equal Employment Opportunity Certification
Attachment D – Non-Collusion Oath
Attachment E – Good Faith Affidavit

ATTACHMENT A

CONTRACT AGREEMENT

RFP #2019-03 Bayshore Drive Drainage Improvements

AGREEMENT FOR BAYSHORE DRIVE DRAINAGE IMPROVEMENTS
between
THE TOWN OF WINDERMERE
and

_____

This Agreement is dated _____ (the "Effective Date") and is between the **Town of Windermere, Florida,** a municipal corporation chartered and operating under the laws of the State of Florida (the "Town"), and _____, (the "Contractor").

The Town issued **RFP #2019-03 Bayshore Drive Drainage Improvements** (the "RFP"), pursuant to which the Town has selected the Contractor to perform some or all of the services set forth in the RFP.

The Town and the Contractor therefore agree as follows:

1. **Scope of Services; Agreement Documents.**

a. The Contractor shall diligently and timely perform the Scope of Services requested by the Town in **Exhibit B** under the terms of this Agreement and the Exhibits hereto. The Town may request changes or amendments to the Scope of Services. Such changes will not be binding unless mutually agreed to in writing and signed by the Town and the Contractor.

b. This Agreement, together with **Exhibits A-C** attached hereto and all of which are incorporated herein by this reference, shall comprise the entire Agreement. This Agreement and the following attachments shall together be referred to as the "Agreement Documents":

- **Exhibit A** – Contractor's Response to the RFP
- **Exhibit B** – Scope of Work
- **Exhibit C** -- Quote

Upon discovery the Town or the Contractor shall promptly notify the other in writing of any conflicts, ambiguities, inconsistencies, errors, or omissions in, between or among any of Agreement Documents and shall cooperate in effecting a resolution. In the event the parties

disagree regarding the resolution, the Town shall make the final determination regarding which document and which terms and conditions govern.

2. **Term**. The initial term of this Agreement shall be for One Hundred Eighty (180) days, beginning on the Effective Date. This Agreement may, by mutual written agreement of the parties, be extended.

3. **Payment**. The Contractor is to provide with each invoice submitted to the Town, a detailed daily description of all work occurred - separated in an electronic format capable of saving and sending in a common electronic means, i.e., excel spreadsheet. All invoices received by the Town are payable within thirty days from the date of receipt, provided they have first been approved by the Town Manager or his designee. The amount of payment shall be based on the approved quote/bid sheet attached hereto as **Exhibit C**.

4. **Taxes**. The Contractor shall pay all federal, state, and local taxes, to include sales tax, social security, workman's compensation, unemployment insurance, and other required taxes which may be chargeable against labor, material, equipment, real estate and any other items necessary to and in the performance of this Agreement.

5. **Termination for Convenience**. The Town may for any reason whatsoever terminate this Agreement upon ten days written notice to the Contractor. In the event of termination, the Contractor shall cease work and shall deliver to the Town all documents, including reports, surveys, plans, tracings, specifications, and all other data and material prepared or obtained by the Contractor in connection with this Agreement. The Town shall, upon delivery of the aforesaid documents, pay the Contractor for work completed through the date of termination and which is approved by the Town. Payment for work completed will constitute payment in full for services performed by Contractor.

6. **Indemnification and Limitation of Liability**.

a. The Contractor shall defend, indemnify, and hold harmless the Town, its officers, directors, agents, contractors, employees, and council members from and against all claims, damages, losses, and expenses, (including but not limited to fees and charges of attorneys or other professionals and court and arbitration or other dispute resolution costs) arising out of or resulting from: (i) the performance of services by the Contractor or any person or organization directly or indirectly employed by the Contractor to perform or furnish any of the services or anyone for whose acts any of them may be liable, (ii) breach of the terms of this Agreement by the Contractor or any person or organization directly or indirectly employed by the Contractor to perform or furnish any of the services or anyone for whose acts any of them may be liable, (iii) violations of applicable law by any person or organization directly or indirectly employed by the Contractor to perform or furnish any of the services or anyone for whose acts any of them may be liable, (iv) disease or death of third parties (including Town employees and agents and those of the Contractor), or (v) damage to property to the extent attributable to the negligence or willful misconduct of the Contractor or any person or organization directly or indirectly employed by the Contractor to perform or furnish any of the services or anyone for whose acts any of them may be liable.

b. The Contractor expressly waives all claims against the Town, and its officers, directors, agents, contractors, employees, and council members for any loss, damage, personal injury or death occurring as a consequence of the Contractor's activities or the performance of services under this Agreement.

c. In no event shall the Town be liable to the Contractor for indirect, special, or consequential damages, including, but not limited to, loss of revenue, loss of profit, cost of capital, or loss of opportunity regardless of whether such liability arises out of contract, tort (including negligence), strict liability, or otherwise.

d. The Town shall not assume any liability for the acts, omissions, or negligence of the Contractor its agents, servants, employees, or subcontractors. In all instances, the Contractor shall be responsible for any injury or property damage resulting from any activities conducted by the Contractor.

e. The Town's limits of liability are set forth in Section 768.28 of the Florida Statutes, and nothing herein shall be construed to extend the liabilities of the Town beyond that provided in Section 768.28 of the Florida Statutes. Nothing herein is intended as a waiver of Town's sovereign immunity under Section 768.28 of the Florida Statutes. Nothing hereby shall inure to the benefit of any third party for any purpose, including but not limited to anything which might allow claims otherwise barred by sovereign immunity or operation of law.

7. **Insurance**.

a. The Contractor shall, at its expense, procure and maintain during the term of this Agreement insurance approved by Town of the following types or such other insurance as the Town may require from time to time:

(1) **Worker's Compensation**: statutory benefits, as required by law.
(2) **Employer's Liability**: limits of One Hundred Thousand Dollars ($100,000) bodily injury by accident, injury and disease, and a Five Hundred Thousand Dollar ($500,000) policy aggregate limit.
(3) **Comprehensive General Liability:** in an amount of at least One Million Dollars ($1,000,000.00) for injuries, including but not limited to wrongful and accidental death per person and Five Million Dollars ($5,000,000.00) for any one accident, and property damage insurance in an amount of at least One Million Dollars ($1,000,000.00).
(4) **Comprehensive Automobile Liability:** in an amount of at least One Million Dollars ($1,000,000.00) bodily injury for each person and Five Million Dollars ($5,000,000.00) for each occurrence and One Million Dollars ($1,000,000.00) Property Damage for each accident.
(5) **Professional Liability/Errors and Omissions:** One Million Dollars ($1,000,000.00), with a maximum deductible of One Hundred Thousand Dollars ($100,000.00). The errors and omissions policy shall be in effect and shall insurance against the Consultant's negligent acts, errors or omissions relating to the services performed under this Agreement.

Consultant shall include the Town as an additional insured under the policy terms and conditions.

b. On or before the Effective Date, the Contractor shall furnish the Town certificates of insurance evidencing compliance with the coverage requirements in this section and allowing thirty days written notice of any change, cancellation, or non-renewal. The certificates must contain the following words: *"Should any of the above described policies be canceled before the expiration date, the issuing company will mail a thirty day notice to the certificate holder named herein."* Thereafter the Contractor shall provide, annually, certificates evidencing that such insurance remains in effect to the extent required under this Agreement.

8. **Compliance with Federal, State, and Local Laws**. The Contractor shall comply with all applicable federal, state, and local laws and ordinances.

9. **Ownership of Documents**. All documents, including detailed reports, plans, original tracings, specifications, and all other data, prepared or obtained by the Contractor in connection with the services hereunder shall be delivered to, and shall become the property of the Town prior to the final payment to or upon completion of work by the Contractor.

10. **Public Records.** To the extent Contractor is acting on behalf of the Town as provided under Subsection 119.011(2) of the Florida Statutes, Contractor shall:

(1) Keep and maintain public records required by the Town to perform the services under this Agreement.
(2) Upon request from the Town's custodian of public records, provide the Town with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Chapter 119 of the Florida Statutes or otherwise provided by law.
(3) Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the Agreement term and following completion of the Agreement if the Contractor does not transfer the records to the Town.
(4) Upon completion of the Agreement, transfer, at no cost, to the Town all public records in possession of Contractor or keep and maintain public records required by the Town to perform the service. If the Contractor transfers all public records to the Town upon completion of the Agreement, the Contractor shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the Contractor keeps and maintains public records upon completion of the Agreement, the Contractor shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the Town, upon request from the Town's custodian of public records, in a format that is compatible with the information technology systems of the Town.

b. If the Contractor fails to provide the public records to the Town within a reasonable time the Contractor may be subject to penalties under Section 119.10 of the Florida Statutes. Further, the Town may exercise any remedies at law or in equity, including, without limitation, the right to (i) impose sanctions and assess financial consequences, (ii) withhold and/or reduce payment, and (iii) terminate this Agreement in accordance with the terms hereof.

c. **IF THE CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONTRACTOR'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS AGREEMENT, CONTACT THE TOWN'S CUSTODIAN OF PUBLIC RECORDS AT (407-876-2563 X 5323, DBURKHALTER@TOWN.WINDERMERE.FL.US, 614 MAIN STREET, WINDERMERE, FLORIDA 34786.**

11. **Ambiguities**. Both parties have been allowed equal input regarding the terms and wording of this Agreement and have had the benefit of consultation with legal counsel prior to its execution, such that all language herein shall be construed equally against the parties, and no language shall be construed strictly against its drafter.

12. **Headings**. The headings or captions of sections or paragraphs used in this Agreement are for convenience of reference only and are not intended to define or limit their contents, nor are they to affect the construction of or to be taken into consideration in interpreting this Agreement.

13. **Modification; Waiver**. No provision of this Agreement may be modified, waived, or discharged unless that modification, waiver, or discharge is agreed to in writing singed by both parties, and if necessary, approved by the Town Council of the Town of Windermere. No waiver by either party of any breach of this Agreement by the other party will constitute a waiver of any other breach occurring at the same time or before or after.

14. **Severability**. If any provision of this Agreement is found by a court of competent jurisdiction to be invalid or unenforceable to any extent, the remainder of this Agreement shall not be affected thereby and shall remain enforceable to the greatest extent permitted by law.

15. **Governing Law; Venue**. This Agreement shall be governed by and construed in accordance with laws of the State of Florida, and venue for any action arising out of or related to this Agreement shall be in the Circuit Court for the Ninth Judicial Circuit in Orange County, Florida.

16. **Entire Agreement**. This Agreement contains the entire agreement of the parties with respect to the services to be performed under the RFP. Previous agreements and understandings of the parties with respect to such matters are null and void and of no effect.

17. **Notices**.

a. For a notice, or other communication, under this Agreement to be valid, it must be in writing and signed by the sending party, and the sending party must use one of the following methods of delivery: (1) personal delivery; (2) registered or certified mail, in each case return receipt requested and postage prepaid; and (3) nationally recognized overnight courier, with all fees prepaid. Delivery via facsimile, or email, is also permitted provided it is followed by delivery via one of methods (1)-(3) above and any such delivery via facsimile or email shall not be deemed to have been received pursuant to subsection 17.c. until such delivery pursuant to methods (1)-(3) above shall be deemed to have been received pursuant to Section 17.c.

b. For a notice, or other communication, under this Agreement to be valid, it must be addressed to the receiving party at the addresses listed below for the receiving party, or to any other address designated by the receiving party in a notice in accordance with this Section 17.

As to Town:

Town of Windermere
Robert Smith, Town Manager
Town of Windermere
614 Main Street
Windermere, Florida 34786
rsmith@town.windermere.fl.us
407-876-2563 x 5324

As to Contractor:

c. Subject to Section 17.d., a valid notice or other communication under this Agreement is effective when received by the receiving party. A notice, or other communication, is deemed to have been received as follows:

(1) if it is delivered in person, or sent by registered or certified mail, or by nationally recognized overnight courier, upon receipt as indicated by the date on the signed receipt; and

(2) if the receiving party rejects or otherwise refuses to accept it, or if it cannot be delivered because of a change in address for which notice was not given, then upon that rejection, refusal, or inability to deliver.

d. If a notice or other communication is received after 5:00 p.m. on a business day at the location specified in the address for the receiving party, or on a day that is not a business day, then the notice is deemed received at 9:00 a.m. on the next business day.

e. Any notice requiring prompt action shall be contemporaneously sent by facsimile transmission or electronic mail.

18. **Assignability**. The Contractor shall not assign any interest in this Agreement, and shall not transfer any interest in same, whether by assignment or novation, without the prior written approval of the Town.

19. **Independent Contractor**. The Contractor is and shall remain an independent contractor and not an employee of the Town.

Authorized parties are signing this Agreement as of the Effective Date stated in the introductory clause.

Town of Windermere:	_____:
By: _____	By: _____
Name: Robert Smith	Name:
Title: Town Manager	Title:

EXHIBIT A TO ATTACHMENT A

CONTRACTOR'S RESPONSE

RFP #2019-03 Bayshore Drive Drainage Improvements

GREGORI CONSTRUCTION INC

3950 South Street, Titusville, FL 32780
Ph: (321) 593-9103 / Fax: (321) 806-1765
www.gregori-inc.com

CGC 1512990 CUC 1225399

Town of Windermere, FL
614 Main St.
Windermere, FL 34786
ATTN: Mr. Scott Brown, Public Works Director

June 26, 2019

Ref. Project: RFP 2019-03
Bayshore Drive Drainage Improvements

Dear Mr. Brown,

Gregori Construction Inc. is pleased to offer this proposal in response to your advertisement for the Bayshore Drive Drainage Improvements project. Gregori Construction Inc. is a heavy and highway construction company proud to be celebrating its 30th year in business. Our corporate headquarters is located in Sarver, PA and we have a branch office in Titusville, FL that we opened in 2005. We are currently licensed and work in the states of PA, FL, WV, VA, TN, AL, GA, NC, SC, and OH. We primarily focus on civil and transportation infrastructure repair and construction through both public agencies (Federal, state, county, and local governments) and private enterprises. As our references (attached) will attest, we have built a well-earned excellent reputation for our proficiency and our attention to our customers' needs. We will bring that same proficiency and mindfulness to your needs should we be selected for this project.

Although the scope of this project is not extensive, we understand its importance for maintaining the well-being of the residents in its vicinity. We are also aware that construction on a project such as this will cause a disruption to the residents in its vicinity and to the traveling public. It will therefore be our approach to plan and prepare for our work before starting physical work so as to minimize disruptions or delays. We will also begin and remain open and informative to both the Town and the residents in the project's vicinity to alert them to our plans and progress.

We have reviewed the plans, specifications, and Contract (including Attachment A and Exhibits A-E) for this project. If we are selected for this project will agree to be bound to these documents and we understand that they are not negotiable.

In addition to the required proposal documents, we are attaching the following in support of our ability and authorization to perform this work:

- References
- Listing of Owned Equipment
- Current Certified General Contractor License
- Current Certified Underground/Utility Contractor License

We appreciate the opportunity to provide pricing for this work, and we look forward to working with the Town of Windermere in the future.

Sincerely,

Andrew M. Gregori, Vice President

Gregori Construction Inc.

Project:	Owner:	Contact	Contract Value:		
Palm Bay Box Culverts	City of Palm Bay 120 Malabar Road SE	Nicholas Gagliardo (321) 952-3400 P	$842,140.53	GC: Proj. Start:	Gregori
Project Description:	Palm Bay FL 32907	F	nicholas.gagliardo@palmbayflor	Proj. Compl:	

IFB #49-2018/SB Culvert Replacements on C-75 Canal - Pembroke, Emerson and Pebble for the City of Palm Bay. Removal and disposal of three separate CMP culvert crossings along the Melbourne Tillman Water Control District Canal No. 75, , replacement with precast concrete box culverts (9x6, 9x7, 10x6) w/ CIP wingwalls, and restoration .

Gemini Springs Baffle Boxes	Volusia County 125 W Indiana Ave	Benjamin Bartlett (386) 822-6422 P	$287,970.00	GC: Proj. Start:	Gregori 13-Jun-18
Project Description:	DeLand FL 32720	(386) 736-5210 F	bbartlett@volusia.org	Proj. Compl:	

Baffle box installation project.

Main St. & Sycamore Baffle Boxes, FL	City of Titusville 555 S Washington Ave.	Jesus Vieiro (321) 567-3733 P	$965,587.00	GC: Proj. Start:	Gregori 06-Nov-17
Project Description:	Titusville FL 32796-	(321) 383-5628 F	Jesus.Vieiro@Titusville.com	Proj. Compl:	22-Jun-18

Installation of 2 EA Suntree baffle box units. Work includes demolition of existing pipe and box culvert, excavation support (trench box and sheet pile), construction dewatering, asphalt roadway milling and paving, roadway base construction, relocation of existing waterline.

Hansel Pond Improvements, Florida	Orange County Board of Co. Co 400 E South St	Chris Hedum (407) 836-7900 P	$1,038,614.00	GC: Proj. Start:	Gregori 25-Oct-17
Project Description:	Orlando FL 32801-	F	Chris.Hedum@ocfl.net	Proj. Compl:	16-Apr-18

The design improvements for Hansel Pond include dredging of excess sediment material from the pond; deepening the pond shelf around the outfall structure and the main portion of the pond; replacing the existing V-notch weir with a bleed down orifice; securing the existing outfall trash racks; installing a new angled skimmer to direct trash to the southern pond bank; installing limerock stabilization material at the southwest

Gregori Construction Inc.

Project:	Owner:	Contact	Contract Value:		
Valkaria Sidewalk & Boardwalk	Brevard County Purchasing Svcs 2725 Judge Fran Jamieson Way	Jeanette Scott (321) 617-7202 P	$770,995.00	GC: Proj. Start:	Gregori 28-Aug-17
Project Description:	Viera FL 32940	F	Jeanette.Scott@brevardfl.gov	Proj. Compl:	27-Feb-18

Construction of an 8 foot wide concrete sidewalk and wooden boardwalk along Valkaria Road from Community Park to Leghorn Road.
Total Project Length: 6,780 feet. Major items of work include sidewalk and boardwalk construction, guardrail installation, and associated striping and signage improvements.

SR417 & Curry Ford Road Ramp	Central FL Expressway Auth. 4974 ORL Tower Road	Jitendra Prajipati (407) 829-7818 P	$1,802,039.00	GC: Proj. Start:	Gregori 30-Jan-17
Project Description:	Orlando FL 32807	F	jprajapati@targetengineering.co	Proj. Compl:	01-Feb-18

Widening of SR 417 SB onramp from Curry Ford Road. Work scope includes roadway excavation, stabilized subbase, limerock base, asphalt base, asphalt paving, guiderail removal and replacement, drainage, pavement markings, lighting, and ITS upgrades.

Daytona Backflow Preventors	City of Daytona Beach 125 South Basin Street Suite 130	Mike Smith (386) 671-8801 P	$290,834.78	GC: Proj. Start:	Gregori 01-Nov-16
Project Description:	Daytona Bea FL 32114-	F	smithm@codb.us	Proj. Compl:	02-Mar-17

Installation of 12 EA precast inlet / manhole units, installation of 12 EA backflow preventer checkvalves, excavation, dewatering, sodding / restoration.

Kingsmill - Aurora Drainage	Brevard County Purchasing Svcs 2725 Judge Fran Jamieson Way	Carolina Alvarez (321) 633-2014 P	$678,655.00	GC: Proj. Start:	Gregori 15-Jun-16
Project Description:	Viera FL 32940	(321) 633-2168 F	carolina.alvarez@brevardcounty	Proj. Compl:	30-Oct-16

Installation of 24 LF 5 FT high x 12 FT span concrete box culvert w/CIP concrete headwalls and wingwalls, installation of concrete pipe (18 IN, 24 IN, 54 IN, & 60 IN), installation of ductile iron pipe and fittings (6 IN, 8 IN, & 14 IN), asphalt milling and paving. Project split into 4 separate locations.

Gregori Construction Inc.

Project:	Owner:	Contact	Contract Value:		
Lake Down Baffle Box	Orange County Board of Co. Co 400 E South St Orlando FL 32801-	Chris Hedum (407) 836-7884 P (407) 836-7714 F	$325,833.43 Chris.Hedum@ocfl.net	GC: Proj. Start: Proj. Compl:	Gregori 20-Jun-16 20-Dec-16

Project Description:

Install a prefabricated second generation baffle box across the existing 48" outfall pipe to treat stormwater runoff.

Croton Road Baffle Box	City of Melbourne 900 E. Strawbridge Ave. Melbourne FL 32901	J. Danielle Straub (321) 608-7312 P (321) 608-7319 F	$199,980.33 dani.straub@mlbfl.org	GC: Proj. Start: Proj. Compl:	Gregori 08-Feb-16 19-Apr-16

Project Description:

Installation of one nutrient separating baffle box, including MOT (lane closure with concrete barrier), asphalt repair, dewatering, sidewalk & curb.

Belmont Estates Drainage Impr.	Orange County Board of Co. Co 400 E South St Orlando FL 32801-	Chris Hedum (407) 836-7884 P (407) 836-7714 F	$651,153.75 Chris.Hedum@ocfl.net	GC: Proj. Start: Proj. Compl:	Gregori 23-Nov-15 20-May-16

Project Description:

Removal of 1300 CY muck/organics, installation of approx. 2500 LF RCP (30", 36", 29"x45", 34"x53"), installation of precast concrete drainage structures, dewatering, E&S controls.

Edgewater Pipe Crossing	City of Edgewater PO Box 100 Edgewater FL 32132-	Randy Coslow, P.E (407) 424-2476 P F	$152,910.00 rcoslow@cityofedgewater.org	GC: Proj. Start: Proj. Compl:	Gregori 01-Feb-15 01-Apr-15

Project Description:

Replacement of 2 EA stormwater pipe road crossings. Installation of 54 LF 36" RCP w/ mitered end sections and 54 LF 54" RCP w/ mitered end sections. Placement of 90 TON rubble rip rap, asphalt paving, dewatering, MOT.

Gregori Construction Inc.

Project:	Owner:	Contact	Contract Value:		
Lake Sylvan Outfall Improvements	Seminole County, FL 1101 East First Street Sanford FL 32771-	Robert Bradley (407) 665-7113 P (407) 665-7956 F	$429,650.00 rbradley02@seminolecountyfl.g	GC: Proj. Start: Proj. Compl:	Gregori 30-Oct-14 10-Apr-15

Project Description:

Furnish and install 377 LF 8'x2' CIP concrete box culvert w/ precast concrete lid, excavation, grading, sodding, furnish and install sluice gate.

W. Cocoa Service Area - Lake Dr	Brevard County Purchasing Svcs 2725 Judge Fran Jamieson Way Viera FL 32940	Carolina Alvarez (321) 633-2014 P (321) 633-2168 F	$813,632.08 carolina.alvarez@brevardcounty	GC: Proj. Start: Proj. Compl:	Gregori 10-Oct-13 01-May-14

Project Description:

Excavation of 1100 LF drainage canal, installation of 5500 SY stabilized access road, installation of 150 LF precast box culvert w/ CIP head- and wing -walls.

Pluckebaum & Range Road Culverts, FL	Brevard County Purchasing Svcs 2725 Judge Fran Jamieson Way Viera FL 32940	Ms. Carolina Alvar (321) 633-2014 P (321) 617-7391 F	$685,176.00 carolina.alvarez@brevardcounty	GC: Proj. Start: Proj. Compl:	Gregori 01-Jul-12 22-Feb-13

Project Description:

Replacement of double 84 inch CMP with double box culverts, 4 locations. Elements include excavation, box culverts, dewatering, shoring, guard rail, concrete wingwalls, striping, signage, concrete driveways, roadway grading, asphalt paving.

FDOT - E5R32 Sheetpile- SR434 Drainage	Florida Department of Transporta 605 Suwannee Street Tallahassee FL 32399-0450	Carlton Daley (407) 482-7819 P (407) 275-4187 F	$974,387.60 Carlton.Daley@dot.myflorida.c	GC: Proj. Start: Proj. Compl:	Gregori 16-Mar-12 15-Jun-12

Project Description:

Approximately 10,000 sq ft of sheet piling in canal 168 ton of Rip-rap, 577 sq yds of articulating block, canal grading, environmental plantings, sod, removal of existing drainage control structures, floating turbidity barrier

Gregori Construction Inc.

Project:	Owner:	Contact	Contract Value:		
Ed Stone Park Seawall Replacement	Volusia County 125 W Indiana Ave DeLand FL 32720	Gary Morton (386) 626-6627 P (386) 736-5972 F	$166,909.50 gmorton@co.volusia.fl.us	GC: Proj. Start: Proj. Compl:	Gregori 16-Jan-12 30-Apr-12

Project Description:

Remove existing sand-cement wall and replace with aluminum sheet wall, concrete sidewalk and bench areas. Remove and replace palm trees.

Pump Branch Ditch Enclosure, Sanford F	City of Sanford 300 N. Park Avenue Sanford FL 32772-	Cathy LoTempio (407) 688-5000 P (407) 688-5081 F	$252,069.00 cathy.lotempio@sanfordfl.gov	GC: Proj. Start: Proj. Compl:	Gregori 04-Aug-11 01-Dec-11

Project Description:

Construction of approximately 372 ft. of new 7' x 7' concrete box culvert, ditch enclosures, and replace existing 84" culvert along the Pump Branch drainage system between 5th Street and 3rd Street.

Rockledge Baffle Box	Township of Rochester Route 18 Rochester PA 15074	Don Griffin (321) 690-3698 P (321) 634-3592 F	$131,800.00 dgriffin@cityofrockledge.org	GC: Proj. Start: Proj. Compl:	Gregori 01-May-11 01-Jul-11

Project Description:

Design-build baffle box project. Provided design services for 3 EA stormwater-separating baffle box units. Upon approval of design, installed 1 baffle box in each of 3 separate locations. Installations were made into existing storm drain lines. Included E&S controls, dewatering, traffic control, swale excavation/grading, and restoration.

St. John Baffle Box - Titusville FL	City of Titusville 555 S Washington Ave. Titusville FL 32796-	Jesus Vieiro (321) 383-5815 P (321) 383-5628 F	$167,342.95 jesus.vieiro@titusville.com	GC: Proj. Start: Proj. Compl:	Gregori 01-Dec-10 01-Mar-11

Project Description:

E&S Controls, Excavation & Excavation Shoring, Furnish & Install Baffle Box, Restoration

Gregori Construction Inc.

Project:	Owner:	Contact	Contract Value:		
Sykes Creek Baffle Boxes	Brevard County Purchasing Svcs 2725 Judge Fran Jamieson Way Viera FL 32940	Carolina Alvarez (321) 633-2014 P (321) 633-2168 F	$488,482.96 carolina.alvarez@brevardcounty	GC: Proj. Start: Proj. Compl:	GCE 03-Nov-09 20-Sep-10

Project Description:

Installation of 9 EA stormwater baffle boxes and 1 EA cast-in-place baffle box, associated stormwater drain piping, dewatering, excavation & excavation shoring, restoration, roadway grading, asphalt paving.

Gregori Contstruction
Master Equipment List

Eqp/Asset No	Master Equipment List
AB1	Arrow Board #1
AB2	Arrow Board #2
AG1	Pengo Auger
AG2	AugerTorque Earth Drill 1850
AG3	2015 McMillen X1976-H2
B2	1998 JD 410E BACKHOE
B3	2004 Cat 430D BACKHOE (FLA)
BT1	Flat Bottom John Boat-Tracker
BT3	Flat Bottom John Boat
BT4	Barge
BT5	Pontoon Boat
BT6	EZ Dock System
C2	IR Compressor - 185 CFM
C3	Atlas Copco Compressor
C4	Sullair 185 CFM Compressor
C5	Atlas Copco 185
C6	Kaeser 375
C7	IR 600 CFM Air Compressor
C8	Atlas Copco XAS 185 CD 7
C9	Atlas Copco XAS 185 CD 7 (FLA)
CR1	Manitowoc M65 Crawler Crane
D3	John Deere 650
D4	2008 John Deere 700JXT
D5	CAT D7 E (4 cyl)
D6	CAT D7 F (6 cyl)
DA1	1995 Rivinius R600B Spreader
DT1	1998 Mack Tandem (White)
DT2	1994 Mack TriAxle (Red)
DT5	2006 Mack TriAxle (Blue)
DT6	2004 Chevy Single Axle 5 Ton
DT7	2008 Peterbilt Tri-Axle Dump
DT8	2018 Kenworth Dump (FLA)
DT9	2017 Freightliner DT M2160(FL)
E02	1996 Komatsu PC 200 Excavator
E05	2001 Komatsu PC 150 (FLA)
E06	2005 CAT 315CL Excavator
E07	2005 CAT 330CL Excavator
E08	IH 35NX Mini Excavator
E09	2008 Komatsu PC 400LC-8 (FLA)
E10	Komatsu PC 138 LC-8
E11	Komatsu PC27MR-3
E12	IHI 35vx Mini Ex
E13	2010 Komatsu PC 200 LC
E14	1997 Kobelco SK220LC
E16	2011 Komatsu PC 138 USLC-8
E17	2005 Komatsu PC308 USLC-3
E18	Komatsu 170 LC
E19	2016 Komatsu PC228 USLC-10
E20	CAT 316E Excavator (FLA)
E21	2017 Komatsu PC138USLC-11
E22	304E2 CR Mini Excavator (FLA)
E23	CAT 305.5E Excavator (FLA)
E24	2017 Komatsu PC228 US LC-10
E25	CAT 335F SGJ20243 ID 180315

Gregori Contstruction
Master Equipment List

Eqp/Asset No	Master Equipment List
E26	Bobcat 329 Mini Ex. - Dale's
E27	JOHN DEERE 245 WITH HY RAIL
FLE01	Bobcat Mini Excavator
FLPC01	Wacker Plate Compactor
FLS01	Bobcat Skid Loader
FT1	FG 30 Fork Lift
FT2	FG 35 Fork Lift
G10	2009 Multiquip 6A6H Generator
G12	2009 Multiquip 6A6H Generator
G14	2009 Multiquip GA2.5H Gen.
G15	2010 Multiquip GA5HA Generator
G16	2010 Multiquip GA3.6HA Gen.
G17	Yamaha EF2600j Generator
G18	Multiquip GA3.6HA Generator
G19	Mitsubishi MGE6700Z Generator
G20	Ingersoll Rand G7HE/2005 Gen.
G22	Wacker GP6600A Generator
G23	Multiquip GA6HA Generator
G25	2015 Multiquip GA6HR Generator
G26	2010 Multiquip 6A6HA Generator
G27	2016 Multiquip GA6HR Generator
G28	2016 Wacker GP6600A
G29	2016 Wacker GP6600A
G30	2016 Multiquip GA6HR
G31	2016 Multiquip GA6HR
G4	Mitsubishi MGA2901 Generator
G5	Yamaha EF-26000AX Generator
G7	Wacker G56A Generator
G9	Troy Bilt Generator
H1	2003 HydraTech Pump
H2	1998 HydraTech Pump
H3	2004 HydraTech Pump
H4	Thompson Pump 8" (FLA)
H5	Gorman Rupp 4" Pump (FLA)
H6	Thompson Jet Pump (FLA)
H7	2016 Thompson 6" Pump (FLA)
HM1	2013 Indeco HP-2000 ABF Hammer
HM2	Hammer
HM3	2015 Caterpillar H140D Hammer
HM4	EPIROC CONTILUBE HAMMER
HM5	MOVAX SP50G HAMMER
HS1	Hay Shredder
L2	Hyundai Loader
L3	2003 Caterpillar TH63 Loader
L4	2007 JLG Sky Trak 6042 (FLA)
L5	2015 CAT 924K (FLA)
L6	2015 JD 204KXT Loader (FLA)
L7	TEREX SS636 Loader
LP-1	2004 Genie Light Plant
LP-2	Wacker Light Plant
LP-3	2000 Wacker LT 4 Light Plant
LP-4	1999 Wacker LT 4 Light Plant
M1	2007 JLG Scissor Lift
M2	2008 JLG 450A Boom Lift

Gregori Contstruction
Master Equipment List

Eqp/Asset No	Master Equipment List
M3	2007 JLG 600S Boom Lift
OHR1	UFC Stripping Buggy
P07	2002 Chevy 1500
P12	2006 Dodge 2500
P18	2006 Dodge 2500
P22	2003 Durango
P23	2009 GMC 2500
P25	2009 Chevy 2500
P26	2009 Chevy 2500
P27	2005 Toyota Land Cruiser
P28	2007 Toyota 4 Runner
P30	2011 GMC 2500
P31	2011 GMC 2500
P33	2012 Toyota Tundra
P35	1996 Ford F250
P37	2013 GMC 2500 Reg Cab
P38	2013 GMC 2500 Ext Cab
P39	1998 Chevy C2500
P40	2013 Toyota Rav4
P41	2000 Dodge RAM 3500 (FLA)
P42	2015 GMC 2500 Crewcab
P44	2015 Dodge Ram 2500 SLT
P45	2015 RAM 4500
P46	2015 Jeep Wrangler
P47	2008 Ford 250
P48	2015 Chevrolet 2500
P49	2016 Dodge RAM 2500 (FLA)
P50	2016 Dodge 5500 (FLA)
P51	2012 Chevrolet 2500 HD
P52	2001 Dodge 2500 (FLA)
P53	2016 Dodge RAM 4500 (FLA)
P54	2016 Chevy Silverado 2500
P55	2016 Dodge RAM 2500
P56	2006 Dodge RAM 3500
P57	2017 Dodge RAM 2500
P58	2016 Chevy Silverado
P59	2016 Chevy Silverado
P60	2017 Dodge RAM 2500 (FLA)
P62	2018 Dodge RAM 2500
P63	2018 Chevy Silverado
P64	2019 Jeep Cherokee Latitude
P65	2015 Toyota Tundra - Tim
P66	2016 Jeep Compass (FLA)
P67	2018 Dodge RAM 2500 (FLA)
P68	2016 RAM 1500(FLA)
PB1	Power Broom BobCat 72
PB2	Power Broom
PB3	Power Broom (MRC)
PB4	Power Broom (For Loader)
PV3	Bid Well 3600 Paver
PV4	Leeboy 8500 Paver (FLA)
PV5	2017 LeeBoy 250 gal.tank (FLA)
PV6	2017 CAT PC306B (FLA)
PW1	MI-T-M JCW-3504-OMHB

Gregori Contstruction
Master Equipment List

Eqp/Asset No	Master Equipment List
PW2	Mi-T-M JCW-3504-OMHB
PW3	2014 Husqvarna 020524
PW4	2016 Mi-T-M JCW-3504-2MHB
R1	2003 Bomag BW 65SP Roller
R2	2006 Bomag 213 Roller
R3	2003 Alitek VR84A5 Roller
R4	Bomag BW75 S2 Roller
R6	Wacker RD12A Roller (FLA)
RE1	1996 Intl w/ Rail Gear
RE2	6'x16' Rail Cart
RE3	2014 Superior Cart 15' x 7'
RE4	2013 Ford F-350 w/rail gear
RE5	2015 Ford F750 Scissor Lift Tr
RE6	Rail Cart
RT1	Moxy MT31
RT2	Army Truck - Kaiser Dump
RT3	2017 IH IC-75 (Morooka) Crawle
S1	1992 LX785 Skid Loader
S10	2005 Caterpillar Skid Steer
S11	2017 Bobcat T870 Loader (FLA)
S12	2018 Bobcat T595 (FLA)
S2	1995 LX885 Skid Loader
S3	2000 LS190 Skid Loader
S4	2002 LS190 Skid Loader
S5	2005 LS190B Skid Loader
S6	Takeuchi Skid Steer
S7	New Holland LS 190
S8	CAT 287D HF Track Loader (FLA)
S9	2006 Caterpillar Skid Steer
SB01	Ver-Mac Signboard
SB02	Ver-Mac Signboard
SB03	Ver-Mac Signboard
SC1	Roller Screed
SR1	VIBRATORY ROLLER
T01	1992 Interstate Trailer
T05	2000 Viking Trailer
T06	2004 Towmaster 6 Ton Trailer
T08	2005 Contrail T-40 Trailer
T09	2005 Towmaster C-12 Trailer
T10	JOB OFFICE TRAILER
T12	2007 X-Treme Trailer
T13	1989 Great Dane Trailer
T14	1998 Talbert 51 Ton Low Boy
T15	2008 Car Mate Trailer
T16	1992 Classic Mfg Trailer
T20	1982 PMF Trailmobile
T22	2006 Carry-on
T23	2010 CAM Superline Tilt Deck
T24	8 x 20 Carmate Trailer
T25	1996 Semi Trailer VS2RX Box
T27	10 Carry On Cargo Trailer 16'
T28	2004 Anderson Trailer
T29	2001 J&LS Cargo Trailer
T30	2014 Haulin Box Trailer

Gregori Contstruction
Master Equipment List

Eqp/Asset No	Master Equipment List
T31	1993 Ravens Trailer
T32	2015 Rogers Trailer
T33	2015 Interstate 40DLA Trailer
T34	2015 Multiquip Water Tr. (FLA)
T35	2006 Eager Beaver Tr. (FLA)
T36	2008 DIMN 24' Tool Tr. (FLA)
T37	2016 Load Trail Dump Tr. (FLA)
T38	2012 Bend Trailer (FLA)
T39	2018 Dorsey DC-BTR Trailer
T40	2005 PJTM Trailer (FLA)
T41	2018 Carmate Trailer
T42	2009 Royal Trailer
T43	2018 TALBERT TRAILER
T44	2018 Big Tex Trailer(FLA)
T46	8.5x20 enclosed trailer (FLA)
T47	2017 Big Tex Trailer
TR1	2001 International Tractor
TR3	2007 Peterbilt Tractor (red)
TR5	2010 Kenworth T800 Tractor
UV03	2005 Stake Body / Crash Truck
UV05	2011 Polaris Ranger
UV06	1987 Ford Water Truck
UV08	2007 Ford F550 Service Truck
UV09	1999 Intl 4700 Crash Truck
UV10	2004 Ford F550 Stake Body
UV11	2016 Polaris Ranger 900 XPPS
UV12	2017 Dodge RAM 5500 Ser. Truck

RICK SCOTT, GOVERNOR

JONATHAN ZACHEM, SECRETARY

Florida dbpr

STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

CONSTRUCTION INDUSTRY LICENSING BOARD

THE GENERAL CONTRACTOR HEREIN IS CERTIFIED UNDER THE PROVISIONS OF CHAPTER 489, FLORIDA STATUTES

GREGORI, ANDREW M

GREGORI CONSTRUCTION INC
3950 SOUTH STREET
TITUSVILLE FL 32780

LICENSE NUMBER: CGC1512990

EXPIRATION DATE: AUGUST 31, 2020

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RICK SCOTT, GOVERNOR

JONATHAN ZACHEM, SECRETARY

Florida dbpr

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

CONSTRUCTION INDUSTRY LICENSING BOARD

THE UNDERGROUND UTILITY & EXCAVATION CO HEREIN IS CERTIFIED UNDER THE PROVISIONS OF CHAPTER 489, FLORIDA STATUTES

GREGORI, ANDREW M

GREGORI CONSTRUCTION INC
3950 SOUTH STREET
TITUSVILLE FL 32780

LICENSE NUMBER: CUC1224399

EXPIRATION DATE: AUGUST 31, 2020

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EXHIBIT B TO ATTACHMENT A

SCOPE OF WORK

CONSTRUCTION PLANS FOR

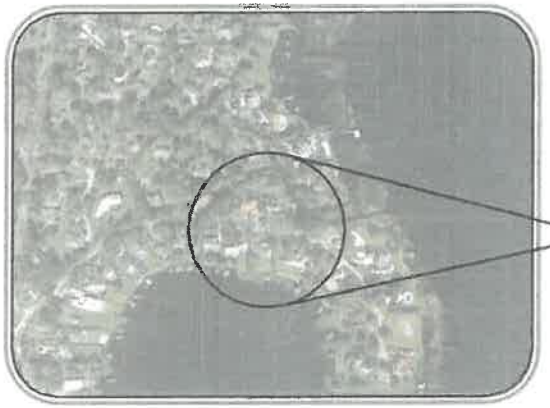
BAYSHORE DRIVE
DRAINAGE IMPROVEMENTS

PROJECT NO. : 2019-03

TOWN OF WINDERMERE
WINDERMERE, FLORIDA

SOURCE OF BENCHMARK DATUM

2019



VICINITY MAP
N.T.S.

GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION
DESIGN STANDARDS FOR DESIGN, CONSTRUCTION,
MAINTENANCE AND UTILITY OPERATIONS
ON THE STATE HIGHWAY SYSTEM, DATED
AND
STANDARD SPECIFICATIONS FOR ROAD AND
BRIDGE CONSTRUCTION, DATED 2007
AS AMENDED BY CONTRACT DOCUMENTS.

PROJECT LENGTH:	FEET	MILES
DRAINAGE:	606	0.115
BRIDGES:	0	0
TOTAL LENGTH:	606	0.115

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 HAVE CHANGED SINCE PLANS PREPARATION.

MAYOR GARY BRUHN — TOWN MAYOR

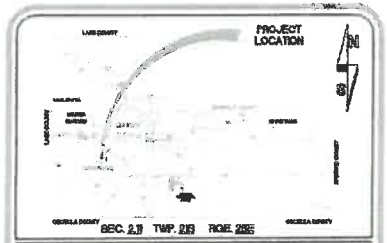
TOWN COUNCIL

ANDY WILLIAMS	COUNCIL MEMBER
CHRIS SAPP	COUNCIL MEMBER
RICHARD MONTGOMERY	COUNCIL MEMBER
BOB McKINLEY	COUNCIL MEMBER
JIM O'BRIEN	COUNCIL MEMBER
ROBERT SMITH	TOWN MANAGER
SCOTT BROWN	PUBLIC WORKS DIRECTOR

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 336.04510 OF THE FLORIDA STATUTES.

DATE: 05/2019 ENGINEER: _____ REG. NO. 47728
MICHAEL B. GALURA



LOCATION MAP

INDEX OF SHEETS

SHEET	DESCRIPTION
1	[illegible]
2	[illegible]
3	[illegible]
4	[illegible]
5	[illegible]
6	[illegible]
7	[illegible]
8	[illegible]
9	[illegible]
10	DITCH BOTTOM INLETS
11	[illegible] BOTTOM INLETS
12	MITERED END SECTION
13	[illegible]

UTILITIES ENCOUNTERED

POWER:	PROGRESS ENERGY	1-800-700-8744
PHONE:	EMBARQ	407-814-5393
WATER:	UTILITIES INC. OF FLORIDA	407-869-1919
SEWER:		NONE
GAS:	LAKE APOPKA NATURAL GAS DISTRICT	407-656-2734
CABLE:	BRIGHT HOUSE NETWORK	407-532-8509

PREPARED BY:
MGEC/ MICHAEL GALURA ENGINEERING CONSULTANTS LLC
3922 CORRINE DRIVE, SUITE H
ORLANDO, FLORIDA 32803
CERTIFICATE OF AUTHORIZATION NO. 28032
407/499-0983

REVISIONS	DATE	BY

DESIGNED BY: MBG DATE: 05/2019
DRAWN BY: CADD DATE: 05/2019
CHECKED BY: MBG DATE: [illegible]
APPROVED BY: MBG DATE: 05/2019
PROJECT NO: TOW-002.01000

SHEET 1 OF 13

DEFINITION:
WHEN USED IN THESE GENERAL NOTES, THE WORD "OWNER" SHALL HAVE THE INDICATED MEANING:

TOWN OF WINDERMERE
PUBLIC WORKS DEPARTMENT

GENERAL NOTES

1. B.M. DATUM IS BASED ON N.G.V.D. 1929 (ORANGE COUNTY ENGINEERING DEPT. DATUM)
2. GRADES SHOWN ARE FINISHED GRADES
3. UTILITIES ARE TO BE ADJUSTED BY OTHERS OR AS DIRECTED BY THE ENGINEER.
4. UTILITIES ENCOUNTERED:

   DUKE ENERGY
   3300 EXCHANGE PLACE
   LAKE MARY, FLORIDA 32746
   PHONE NO.: (407) 942-9302

   SPECTRUM BUSINESS
   864 MAGNOLIA ROAD
   OCOEE, FLORIDA 34761
   PHONE NO.: (407) 886-1182

   CENTURY LINK
   33 N. MAIN STREET
   WINTER GARDEN, FLORIDA 34787
   PHONE NO.: (407) 294-3043
   FAX NO.: (407) 814-3020

   UTILITIES, INC. OF FLORIDA
   200 WEINBRIDGE AVENUE
   ALTAMONTE SPRINGS, FLORIDA 32714
   PHONE NO.: (407) 868-1818 (SCOTTY HALLS, EXT. 227)
   FAX NO.: (407) 889-8861

   LAKE APOPKA NATURAL GAS DISTRICT
   1320 SOUTH WINTERLAND ROAD
   WINTER GARDEN, FLORIDA 34777-1329
   PHONE NO. (407) 656-2734, EXT. 116
   FAX NO.: (407) 877-3883

5. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH AND CONFORM TO THE MOST STRINGENT REQUIREMENT OF THE PROJECT SPECIFICATION, THE LATEST EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (FDOT), AND SUPPLEMENTS THERETO, AND THE TOWN OF WINDERMERE SPECIFICATIONS.
6. SUBSURFACE INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FOR USE IN ESTABLISHING DESIGN CRITERIA FOR THE PROJECT. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED AND IS NOT TO BE CONSTRUED AS PART OF THE PLANS GOVERNING CONSTRUCTION OF THE PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INQUIRE OF THE ENGINEER IF ADDITIONAL INFORMATION IS AVAILABLE, TO MAKE ARRANGEMENTS TO REVIEW SAME PRIOR TO BIDDING, AND TO MAKE HIS OWN DETERMINATION AS TO ALL SUBSURFACE CONDITIONS.
7. ALL PERSONAL PROPERTY, EXCEPT MARKERS, WITHIN THE RIGHT-OF-WAY MUST BE RELOCATED BY THE PROPERTY OWNER. SHALL BE REMOVED BY THE CONTRACTOR AS NECESSARY TO CONSTRUCT THE PROJECT IN ACCORDANCE WITH THE PLANS.
8. THE RELOCATION OF MAILBOXES SHALL BE COORDINATED BETWEEN THE CONTRACTOR AND THE PROPERTY OWNERS AND SHALL BE APPROVED BY THE POST MASTER, IN ACCORDANCE WITH FDOT INDEX NO. 532. FOR ITEM SHALL BE PAID FOR UNDER THE UNIT PRICE FOR "MAILBOX (FURNISH & INSTALL) EA.", IF APPLICABLE.
9. THE DISPOSAL OF EXCESS EARTHWORK MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL UNDESIRABLE MATERIAL. ALL EXCESS MATERIAL IS THE PROPERTY OF THE CONTRACTOR.
10. ALL EXISTING TREES WITHIN THE RIGHT-OF-WAY ARE TO REMAIN UNLESS OTHERWISE DIRECTED. IF REQUIRED TO BE REMOVED, THE ITEM SHALL BE FOR PAID UNDER "MOBILIZATION/DEMOBILIZATION" OR OTHER PAY ITEMS AS DESIGNATED IN THE CONTRACT DOCUMENTS.
11. SOD ALL DISTURBED AREAS UNLESS OTHERWISE DIRECTED. SOD SHALL MATCH EXISTING TYPE SOD UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
12. SOD ALL SLOPES 3:1 OR STEEPER.
13. BANGOUT CONCRETE DRIVEWAYS AS REQUIRED FOR CONSTRUCTION.
14. ALL PAVEMENT OFFSETS SHOWN ARE TO PROPOSED CENTERLINE OR BASELINE OF CONSTRUCTION; ALL RADII AND DIMENSIONS ARE TO PROPOSED EDGE OF PAVEMENT.
15. FOR STABILIZATION AT DRAINAGE AND DRIVEWAY CONNECTIONS SEE STANDARD FDOT INDEX No. 515 AND TYPICAL SECTIONS FOR DEPTH AND LIM.
16. DRIVEWAY LOCATIONS AND WIDTHS SHOWN ARE APPROXIMATE AND MAY BE ADJUSTED AS NECESSARY, OR AS DIRECTED BY THE OWNER/ENGINEER.
17. THE CONTRACTOR SHALL PERFORM HIS WORK IN ACCORDANCE WITH REQUIREMENTS OF THE VARIOUS PERMITS REQUIRED IN THE PROJECT MANUAL. ENVIRONMENTAL CONTROLS SHALL BE USED AT LOCATIONS DESIGNATED IN THE PLANS AND/OR DESIGNATED BY THE ENGINEER.
18. THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS BASED ON AVAILABLE RECORDS AND SURVEYS BUT IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO AND IS RESPONSIBLE FOR COORDINATING UTILITY RELOCATION WITH THE UTILITY OWNER, PRIOR TO ORDERING DRAINAGE STRUCTURES. THE CONTRACTOR SHALL DETERMINE IF DRAINAGE/UTILITY CONFLICTS EXIST. INFORMATION ON CONFLICTS IS TO BE SUBMITTED TO THE ENGINEER AS SOON AS POSSIBLE AFTER DISCOVERY FOR RESOLUTION.
19. THE CONTRACTOR SHALL NOTIFY ALL GAS UTILITY COMPANIES A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO EXCAVATION AS REQUIRED BY CHAPTER 77-133 OF THE FLORIDA STATUTES.
20. ALL DRAINAGE PIPES SHALL BE REINFORCED CONCRETE PIPE, CLASS III, UNLESS OTHERWISE DIRECTED BY THE OWNER/ENGINEER.
21. MEASUREMENT OF DRAINAGE PIPE FOR PAVEMENT SHALL BE DETERMINED FROM ACTUAL LENGTHS INSTALLED.
22. ALL MANHOLE COVERS SHALL BE IDENTIFIED AS "STORM", AS APPROPRIATE.
23. ALL INLET/MANHOLE – PIPE JOINTS SHALL BE FILLED WITH NON-SHRINK GROUT, COVERED WITH AN ASPHALTIC BASED COATING, AND WRAPPED WITH A FILTER FABRIC MATERIAL PER SECTION 430-7.3.1.7 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION).
24. ALL CURB INLETS, DITCH BOTTOM INLETS, AND MANHOLES SHALL HAVE TRAFFIC BEARING FRAMES AND COVERS OR GRATES MEETING HS-20 LOADING REQUIREMENTS. ALL INLET GRATES SHALL BE STEEL REINFORCED TYPE UNLESS OTHERWISE NOTED.
25. CHANGES OF PIPE MATERIALS NOT EXCEEDING PLUS OR MINUS ONE (1) FOOT WILL NOT BE CONSIDERED AS A BASIS FOR ADDITIONAL COMPENSATION FOR THE PERMANENT PIPE BID ITEM OR FOR MODIFICATION OF PRECAST STRUCTURES.
26. PRIOR TO BEGINNING ANY CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE TOWN OF WINDERMERE PUBLIC WORKS DEPARTMENT A SET OF FIELD NOTES VERIFYING THE BENCHMARK ELEVATIONS AND THE REFERENCE POINT TIES SHOWN ON THE BOLD SHEET AND PLAN AND PROFILE SHEETS, AND/OR A SET OF FIELD NOTES FOR ALL ADDITIONAL BENCHMARK AND REFERENCE POINT TIES PROPOSED TO BE USED IN CONSTRUCTING THE PROJECT WITH THEIR LOCATION, DESCRIPTION AND ELEVATION, BASED ON ORANGE COUNTY DATUM. ALL SUBMITTALS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA.
27. TRAFFIC SIGNS – THE CONTRACTOR SHALL REMOVE, PROTECT AND RELOCATE, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
28. IF NECESSARY, FLOWABLE FILL SHALL BE USED AT ALL CROSSINGS BELOW A PROPOSED STORM SEWER PIPE CROSSES OVER OR UNDER AN EXISTING SANITARY SEWER PIPE WITH TWO (2) FEET OR LESS VERTICAL CLEARANCE AND WHERE MECHANICAL OR HAND COMPACTION IS DIFFICULT TO ACHIEVE OR IS NOT FEASIBLE. THE COST FOR THE USE OF FLOWABLE FILL TO OBTAIN NECESSARY COMPACTION BETWEEN THE EXISTING SANITARY SEWER PIPE AND THE STORM SEWER PIPE SHALL BE PAID FOR IN THE UNIT COST FOR ITEM "FURNISH & INSTALL CONCRETE STORM SEWER." "FURNISH & INSTALL ELLIPTICAL CONCRETE STORM SEWER".
29. IF NECESSARY, THE CONTRACTOR SHALL REPLACE A SEGMENT OF THE EXISTING SANITARY SEWER PIPE AT CROSSINGS WITH STORM SEWER PIPES EQUIVALENT TO THE WIDTH OF THE STORM SEWER PIPE TRENCH. THE REPLACEMENT SEWER PIPE SHALL BE OF THE SAME SIZE PVC PIPE (OR HIGHER EQUIVALENT) AND SHALL BE PAID FOR IN THE UNIT COST FOR "FURNISH & INSTALL CONCRETE STORM SEWER" OR "FURNISH & INSTALL ELLIPTICAL CONCRETE STORM SEWER", UNLESS NOTED AND QUANTIFIED.
30. MANHOLE AND SEWER SERVICE SHALL BE MAINTAINED AT ALL TIMES DURING THE COURSE OF CONSTRUCTION AT NO ADDITIONAL CONTRACT COST.
31. PIPE SLOPES DEPICTED ON THE PLAN AND PROFILE SHEETS ARE MEASURED FROM CENTERLINE OF STRUCTURE TO CENTERLINE OF STRUCTURE, WITH EXCEPTION TO THE POLLUTION CONTROL BERMS UNITS, WHICH ARE MEASURED FROM THE INSIDE WALL OF THE STRUCTURE.
32. DRAINAGE STRUCTURE STATIONS AND OFFSETS ARE REFERENCED FROM THE CENTERLINE/BASELINE OF CONSTRUCTION TO THE CENTER OF THE STRUCTURE.
33. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE, REMOVAL OR MODIFICATION OF ANY IRRIGATION SYSTEMS. THE CONTRACTOR SHALL REPLACE ALL DAMAGED, REMOVED OR MODIFIED IRRIGATION SYSTEMS AT NO ADDITIONAL COST.
34. ALL SIDEWALKS SHALL MEET THE AMERICAN DISABILITIES ACT (ADA) STANDARDS.

EARTHWORK

EW-1 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF SLOPES AND EMBANKMENTS. THE CONTRACTOR SHALL REPAIR OR REMEDY DAMAGE TO SUCH IF CAUSED BY EROSION, CONTRACTOR ACTIVITIES OR LACK OF MAINTENANCE UNTIL THE PROJECT IS ACCEPTED BY THE OWNER.

EW-2 THE CONTRACTOR SHALL EXAMINE THE SITE, REVIEW THE PLANS, AND INDEPENDENTLY DETERMINE THE VOLUME OF EXCAVATION, FILL AND/OR BACKFILL REQUIRED TO PERFORM THE WORK.

EW-3 ALL FILL PLACED WITHIN PROPOSED ROAD RIGHT-OF-WAY SHALL BE COMPACTED AS FOLLOWS:

- ROADWAY EMBANKMENTS (OUTSIDE PAVEMENT) 95% MAXIMUM DENSITY, AASHTO T-180.
- ROADWAY AREAS (UNDER PAVEMENT) 98% MAXIMUM DENSITY, AASHTO T-180.

EW-4 IN ALL AREAS WHICH REQUIRE FILL MATERIAL, THE CONTRACTOR WILL STRIP OR OTHERWISE REMOVE ALL VEGETATION AND OTHER OBJECTIONABLE MATERIAL BEFORE EMBANKMENT IS STARTED. IMMEDIATELY PRIOR TO THE PLACING OF FILL MATERIALS, THE ENTIRE AREA UPON WHICH FILL IS TO BE PLACED WILL BE SCARIFIED IN A DIRECTION APPROXIMATELY PARALLEL TO THE AXIS OF FILL, UNLESS DIRECTED OTHERWISE BY THE GEOTECHNICAL ENGINEER.

EW-5 UNLESS OTHERWISE DIRECTED BY THE GEOTECHNICAL ENGINEER AND PRIOR TO THE PLACEMENT OF FILL, THE AREA TO BE FILLED WILL BE PROOF ROLLED. ANY AREA SHOWING SIGNS OF PUMPING, WEAVING OR OTHER FORMS OF INSTABILITY SHALL BE SELECTIVELY REMOVED AND REPLACED WITH COMPACTED SELECT FILL.

GEOMETRY & SURVEY

GS-1 ALL PAVEMENT DIMENSIONS SHOWN ARE TO THE EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED.

GS-2 ALL INLET AND MANHOLE OFFSET DISTANCES SHOWN ARE MEASURED TO THE CENTERLINE OF THE STRUCTURE UNLESS OTHERWISE NOTED.

GS-3 PUBLIC LAND CORNERS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED OR DISTURBED, THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE PROJECT ENGINEER, WITHOUT DELAY, BY TELEPHONE. THE CONTRACTOR SHALL PROVIDE WRITTEN FOLLOW UP CONFIRMATION WITHIN FORTY-EIGHT (48) HOURS OF TELEPHONE NOTIFICATION.

GS-4 ALL (P.R.M.'S) BENCH AND MONUMENTS SHOWN ON PLANS, OR FOUND, SHALL BE PRESERVED. THOSE SHOWN IN PROPOSED PAVEMENT SHALL BE PROTECTED WITH A CAST IRON VALVE BOX.

GS-5 ANY U.S.C. AND G.S. MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF IN DANGER OF DAMAGE, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND BOTH SHALL NOTIFY:

STATE GEODETIC ADVISOR
SUITE 200
2894 COMMONWEALTH BOULEVARD
TALLAHASSEE, FL
(904) 488-2427

GEOTECHNICAL & TESTING

GT-1 THE CONTRACTOR SHALL ENSURE THAT PROPER SOIL DENSITIES ARE ACHIEVED FOR THE PLACEMENT OF ALL STRUCTURES, OR COMPACTED EARTH. SOIL TESTING SHALL BE PROVIDED BY THE OWNER. THE CONTRACTOR SHALL COORDINATE WITH THE OWNERS CONSULTANT FOR SCHEDULING ALL TESTING PRIOR TO CONSTRUCTION WORK. THE CONTRACTOR SHALL PROVIDE SUFFICIENT NOTICE FOR TESTING WORK IN ADVANCE OF CONSTRUCTION.

GT-2 ALL SOIL STRIPPINGS, OBJECTIONABLE AND UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR UNLESS OTHERWISE DIRECTED BY THE OWNER OR SPECIFIED ELSEWHERE IN THE PLANS FOR REUSE/ DISPOSAL. IN NO CASE WILL BURIAL OF DISPOSABLE MATERIAL BE ALLOWED.

REGULATORY & PERMITTING

RP-1 THE CONTRACTOR SHALL ENSURE THAT ALL REQUIRED PERMITS ARE IN HAND BEFORE PROCEEDING WITH THE CONSTRUCTION WORK. THE CONTRACTOR SHALL SATISFY AND ADHERE TO ALL APPLICABLE REQUIREMENTS OR SPECIAL CONDITIONS STATED WITHIN SAID PERMITS REGARDING THE CONSTRUCTION WORK OR MAINTENANCE OF IMPROVEMENTS PRIOR TO ACCEPTANCE BY THE OWNER.

RP-2 THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL INSPECTION CRITERIA AND SCHEDULES, AND FOR SIGNING FOR SAID INSPECTIONS.

REGULATORY & PERMITTING (CONTINUED)

RP-3 THE CONTRACTOR SHALL CONFORM AND ADHERE TO THE POLICIES ESTABLISHED BY THE OWNER (TOWN OF WINDERMERE) FOR THE PRESERVATION OF ALL PUBLIC AND PRIVATE PROPERTY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE AND INJURY TO PROPERTY OF ANY CHARACTER, DURING THE PROSECUTION OF THE WORK, RESULTING FROM ANY ACT, OMISSION, NEGLECT, OR MISCONDUCT IN HIS MANNER OR METHOD OF EXECUTING THE WORK, OR AT ANY TIME DUE TO DEFECTIVE WORK OR MATERIALS.

RP-4 THE CONTRACTOR SHALL COMPLY WITH ALL LEGAL LOAD RESTRICTIONS WHEN HAULING MATERIALS OR EQUIPMENT BEYOND THE LIMITS OF THE WORK. A SPECIAL PERMIT WILL NOT RELIEVE THE CONTRACTOR FROM ANY LIABILITY FOR DAMAGE OR INJURY WHICH MAY RESULT FROM NORMAL EQUIPMENT OR MATERIAL.

RP-5 BEFORE COMMENCING WORK ON PRIVATE LANDS, UNLESS SHOWN, THE CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION FROM THE OWNER (TOWN OF WINDERMERE) TO WRITTEN COPY FOR THE SOLE PURPOSE OF PROSECUTING THE WORK. THE CONTRACTOR SHALL USE ALL DUE DILIGENCE AND CARE TO PROTECT THE PROPERTY AT ALL TIMES AND IN ALL MANNER FROM HIS WORK AND TO LIMIT HIS ACTIVITIES AS NECESSARY TO PERFORM THE WORK AS DESCRIBED BY THE CONTRACT DOCUMENTS. IF THE WORK IS INCOMPLETE AT THE END OF THE WORK DAY, HE SHALL SECURE THE WORK AREA AND MATERIALS TO PROVIDE FOR THE SAFETY OF ALL PERSONS, KNOWN OR UNKNOWN. SAFETY SHALL BE FIRST CONSIDERATION AND THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

RP-6 ABSOLUTELY NO WORK WILL BE ALLOWED WITHIN ANY CONSERVATION AREA, BUFFER AREA, MITIGATION AREA, OR DESIGNATED WETLAND AREA UNLESS SO SPECIFICALLY DESCRIBED BY THE PLANS AND GRANTED BY REVISION OF PERMIT FROM THE GOVERNMENTAL ENTITY HAVING JURISDICTION OVER SAID AREA.

RP-7 STORMWATER POLLUTION PREVENTION PLAN
IF THE TOTAL AREA TO BE CLEARED IS EQUAL TO, OR EXCEEDS ONE (1) ACRE, THEN THE CONTRACTOR WILL BE RESPONSIBLE FOR PREPARING A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH EPA'S NPDES REGULATIONS. THE CONTRACTOR WILL BE RESPONSIBLE FOR SUBMITTING A NOTICE OF INTENT (NOI) TO THE EDEP FORTY-EIGHT (48) HOURS PRIOR TO COMMENCING CONSTRUCTION. THE COST FOR THIS WILL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "MOBILIZATION/DEMOBILIZATION, LS."

UTILITY LOCATIONS

UL-1 THE LOCATION OF ALL EXISTING UTILITY SERVICES, FACILITIES, AND STRUCTURAL FEATURES SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST AVAILABLE INFORMATION AND ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE OWNER AND HIS REPRESENTATIVE DO NOT GUARANTEE THE ACCURACY OR THE COMPLETENESS OF THE LOCATION INFORMATION PROVIDED. ANY INACCURACY OR OMISSION IN SUCH INFORMATION SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PROTECT SUCH EXISTING FEATURES FROM DAMAGE OR UNNECESSARY INTERRUPTION OF SERVICES. SHOULD A DISCREPANCY ARISE BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS, WHICH SHALL APPRECIABLY AFFECT THE EXECUTION OF THESE PLANS, THE CONTRACTOR WILL HALT CONSTRUCTION AND NOTIFY THE OWNER IMMEDIATELY.

UL-2 THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND NOTIFYING ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION, AND FOR NOTIFYING THE VARIOUS UTILITY COMPANIES TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATION, DISRUPTION OF SERVICE, OR CLARIFICATION OF ACTIVITY REGARDING SAID UTILITY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING AN UNDERGROUND UTILITY, WHETHER SHOWN ON THESE PLANS OR FIELD LOCATED. UTILITIES WHICH INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE RELOCATED BY THE RESPECTIVE UTILITY COMPANY AND THE CONTRACTOR SHALL COOPERATE WITH THE UTILITY COMPANY DURING RELOCATION OPERATIONS. ANY DELAY OR INCONVENIENCE BY THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT.

UL-3 THE CONTRACTOR SHALL LOCATE AND VERIFY THE DEPTHS AND LOCATIONS OF ALL EXISTING UTILITIES WITHIN THE LIMITS OF WORK, PRIOR TO ORDERING ANY STRUCTURES.

UL-4 PRIOR TO EXCAVATING IN THE VICINITY OF A GAS PIPELINE THE CONTRACTOR SHALL NOTIFY THE GAS UTILITY OWNER IN ACCORDANCE WITH THE REQUIREMENTS OF FLORIDA STATUTES, PROTECTION OF UNDERGROUND PIPELINES, F.S. 553.851, CH. 77-133.

UL-5 THE CONTRACTOR SHALL USE THE SERVICES OF SUNSHINE-ONE CALL UTILITY LOCATION A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF WORK. (SUNSHINE-ONE CALL 1 (800) 432-4770)

MAINTENANCE OF TRAFFIC

MT-1 MAINTENANCE OF TRAFFIC ACCESS FOR LOCAL TRAFFIC WITH DESIGNATIONS WITHIN THE PROJECT LIMITS SHALL BE MAINTAINED. IF DURING CONSTRUCTION ACCESS FOR LOCAL TRAFFIC IS CHANGED, THEN THE CONTRACTOR SHALL NOTIFY THE OWNER A MINIMUM OF THREE (3) WORKING DAYS IN ADVANCE. IF DURING CONSTRUCTION ROAD CLOSURES ARE REQUIRED, THEN THE CONTRACTOR SHALL NOTIFY THE OWNER A MINIMUM OF FIVE (5) WORKING DAYS IN ADVANCE.

MT-2 PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN ALL BARRICADES, WARNING SIGNS, AND WARNINGS FOR HAZARDS AND THE CONTROL OF TRAFFIC, IN REASONABLE CONFORMITY WITH THE U.S. DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, OR AS DIRECTED BY THE OWNER (TOWN OF WINDERMERE), SUCH AS TO EFFECTIVELY PREVENT ACCIDENTS IN ALL PLACES WHERE THE WORK CAUSES OBSTRUCTION TO THE NORMAL TRAFFIC OR CONSTITUTES IN ANY WAY A HAZARD TO THE PUBLIC.

STORM WATER (DRAINAGE)

SW-1 ALL MANHOLES, INLETS, AND JUNCTION BOX STRUCTURES SHALL BE MHC-425 AND IN ACCORDANCE WITH ASTM C-478 UNLESS OTHERWISE SPECIFIED.

SW-2 ALL MANHOLES, INLETS, AND JUNCTION BOX STRUCTURES SHALL HAVE TRAFFIC BEARING FRAMES AND COVERS, OR GRATES MEETING HS-20 LOADING REQUIREMENTS UNLESS OTHERWISE SPECIFIED WITHIN THE PLANS.

SW-3 ALL REINFORCED CONCRETE PIPE SHALL BE OF THE CLASS AND BEDDING SPECIFIED BY THE F.D.O.T., HIGHWAY AND TRAFFIC DESIGN STANDARDS (F.D.O.T. INDEX 205).

SW-4 ALL PIPE JOINT CONNECTIONS SHALL BE WRAPPED WITH A FILTER FABRIC MATERIAL IN ACCORDANCE WITH F.D.O.T. HIGHWAY AND TRAFFIC DESIGN STANDARDS (F.D.O.T. INDEX NO. 280).

SW-5 ALL DEBRIS AND INSTALLED STORM SEWER LINES AND INLETS SHALL BE CLEANED OF DEBRIS AND DEBRIS MATERIALS AT THE LAST STAGE OF CONSTRUCTION. THE COST OF WHICH SHALL BE INCIDENTAL TO THE PROJECT CONSTRUCTION. BEFORE COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ENGINEER ALL EXISTING DRAINAGE PROBLEMS OR DRAINAGE PROBLEMS THAT WILL BE CREATED BY THEIR OPERATION.

MISCELLANEOUS NOTES

MN-1 ALL WORK AND MATERIALS FURNISHED SHALL BE IN REASONABLE CONFORMITY WITH THE LINES, GRADES, PROFILES, CROSS-SECTIONS, DIMENSIONS, MATERIAL REQUIREMENTS, AND TESTING REQUIREMENTS SPECIFIED IN THE CONTRACT, PLANS OR SPECIFICATIONS.

MN-2 THE CONTRACTOR SHALL NOT EXCAVATE, REMOVE, OR OTHERWISE DISTURB ANY MATERIAL, STRUCTURE, OR PART OF A STRUCTURE WHICH IS LOCATED OUTSIDE THE LINES, GRADES, OR CONSTRUCTION LIMITS ESTABLISHED FOR THIS PROJECT. EXCEPT WHERE SUCH EXCAVATION, REMOVAL, OR DISTURBANCE IS PROVIDED FOR IN THE CONTRACT, PLANS, OR SPECIFICATIONS.

MN-3 THE CONTRACTOR SHALL EXAMINE THE SITE FOR ALL CONDITIONS WHICH MAY AFFECT HIS WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISCOVERY, LOCATION AND IDENTIFICATION OF EXISTING UTILITIES, DRAINAGE SYSTEMS OR PHYSICAL STRUCTURES WITHIN THE LIMITS OF WORK. THE OWNER, HIS ENGINEER, AND ENGINEER'S CONSULTANT ASSUME NO RESPONSIBILITY FOR SUBSURFACE CONDITIONS OR FOR THE CONTRACTOR'S FAILURE TO IDENTIFY, LOCATE, AND PROTECT EXISTING FACILITIES ABOVE AND BELOW THE GROUND.

MN-4 THE CONTRACTOR SHALL REMOVE ALL WASTE MATERIAL FROM THE SITE AND DISPOSE OF IT IN AN APPROVED MANNER. BURNING ON SITE WILL NOT BE ALLOWED.

MN-5 THE CONTRACTOR SHALL CLEARLY MARK LIMITS OF WORK PRIOR TO CLEARING TO PROTECT ADJACENT AREAS FROM CONSTRUCTION ACTIVITIES.

MN-6 AS-BUILT DRAWINGS SHALL BE KEPT BY THE CONTRACTOR AND SUBMITTED TO THE OWNER (TOWN OF WINDERMERE) UPON PROJECT COMPLETION, PRIOR TO FINAL CERTIFICATION OF SUBSTANTIAL COMPLETION BY THE ENGINEER. THESE AS-BUILT DRAWINGS SHALL COMPLY WITH THE FLORIDA ADMINISTRATIVE CODE (F.A.C.) FOR SURVEYORS.

MN-7 THE CONTRACTOR SHALL PROVIDE ALL SHORING, BRACING, AND BRACING REQUIRED TO PROTECT ADJACENT STRUCTURES AND UTILITIES, OR TO ADMINISTER TRENCH WORK AS REQUIRED. SHORING AND BRACING TO BE DESIGNED BY A STATE OF FLORIDA REGISTERED PROFESSIONAL ENGINEER RETAINED BY THE CONTRACTOR.

MN-8 ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THE CONDITION EXISTING PRIOR TO COMMENCING CONSTRUCTION, UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. COST TO BE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION TO BE ALLOWED.

MN-9 APPARENT ERRORS, DISCREPANCIES OR OMISSIONS ON THE DRAWINGS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION BEFORE BIDDING. NO EXTRA PAYMENT WILL BE ALLOWED FOR ANY WORK REQUIRED DUE TO MISCHARACTERIZATIONS OF JOB OR SITE CONDITIONS AFFECTING THE WORK DESCRIBED IN THE SPECIFICATIONS OR SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL NOT TAKE ADVANTAGE OF ANY APPARENT ERROR OR OMISSION IN THE DRAWINGS OR SPECIFICATIONS, AND THE ENGINEER SHALL BE PERMITTED TO MAKE CORRECTIONS AND INTERPRETATIONS AS MAY BE DEEMED NECESSARY FOR FULFILLMENT OF THE INTENT OF THE CONTRACT DOCUMENTS. BID TENDERING OF A PROPOSAL WILL ACKNOWLEDGE ACCEPTANCE OF THESE CONDITIONS BY THE BIDDER.

MN-10 AT THE END OF EACH WORK DAY THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE CONSTRUCTION AREA FOR PUBLIC SAFETY.

Always call Sunshine 811 two full business days before you dig
Sunshine811.com

REV.	DATE	DESCRIPTION	APP'D BY

SIGN OFF: CLIENT, PM/CM SC, PM/CM DM, PM, CM, OTHERS

MGEC MICHAEL GALURA ENGINEERING CONSULTANTS, LLC
3222 CORRINE DRIVE, SUITE H
Orlando, Florida 32803 407/493-0963
CERTIFICATE OF AUTHORIZATION NO. 28932

TOWN OF WINDERMERE
PUBLIC WORKS DEPARTMENT
614 MAIN STREET, WINDERMERE, FLORIDA 34786

JOB No. TOW-022.01.000
FILE NAME: SSE LOT MARSH
ARCHIVE DISC:
SCALE: NONE

GENERAL NOTES

DWG. | SHEET 2 OF 10

REV.	DATE	DESCRIPTION	APP'D BY

DRAWN BY:	CADD	
DESIGNED BY:	MBG	
CHECKED BY:	MBG	

MGEC MICHAEL GALURA ENGINEERING CONSULTANTS, LLC
3222 CORRINE DRIVE, SUITE H
Orlando, Florida 32803
CERTIFICATE OF AUTHORIZATION NO. 29032
407/463-9883

TOWN OF WINDERMERE
PUBLIC WORKS DEPARTMENT
614 MAIN STREET, WINDERMERE, FLORIDA 34786

JOB No. TOW-022.01.000
FILE NAME: SEE LEFT MARGIN
ARCHIVE DISC:
SCALE: 1"=40'

DRAINAGE MAP

DWG.

SHEET 3 OF 13

SUMMARY OF PAY ITEMS

BAYSHORE DRIVE DRAINAGE IMPROVEMENTS

ITEM NUMBER		UNIT	QUANTITY TOTAL	
			PLANS	FINAL
101-1	MOBILIZATION/DEMOBILIZATION (5% OF ITEMS BELOW)	LS	1	
101-2	SURVEY AND LAYOUT	LS	1	
102-1	MAINTENANCE OF TRAFFIC	LS	1	
104-14	PREVENTION, CONTROL & ABATEMENT OF EROSION & WATER POLLUTION	LS	1	
110-10	REMOVAL AND DISPOSAL OF CONCRETE (DRIVEWAY, ETC.)	SY	78	
120-9	EXCAVATION, EMBANKMENT & GRADING	LS	1	
425-15-21	INLETS, DT BOT, TYPE C, <10' (WITH SINGLE NON-TRAVERSABLE SLOT)	EA	1	
425-15-41	INLETS, DT BOT, TYPE D, <10' (WITH DUAL NON-TRAVERSABLE SLOT)	EA	1	
430-175-218	PIPE CULVERT, CONCRETE, CLASS III, HORIZONTAL ELLIPTICAL, 14"X23" (EQUIV. 18")	LF	102	
430-984-625	MITERED END SECTION, OPTIONAL - ELLIPTICAL/ARCH, 14"X23" SIDE DRAIN	EA	3	
522-2	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	SY	78	
530-3-4	RIPRAP, RUBBLE, F&I, DITCH LINING	TN	5	
530-74	BEDDING STONE (115 LB/SF)	TN	4	
570-1-2	PERFORMANCE TURF (SOD) (MATCH EXISTING)	SY	520	

PAY ITEM NOTES

101-1

)2 AND

ANY BORROW EXCAVATION REQUIRED SHALL BE FURNISHED BY THE CONTRACTOR FROM AREAS PROVIDED BY HIM. THE COST OF FURNISHING SUCH MATERIAL IS TO BE INCLUDED IN THE UNIT PRICE FOR "EXCAVATION, EMBANKMENT & GRADING". THIS PAY ITEM SHALL ALSO INCLUDE THE DISPOSAL OF EXCESS MATERIALS AT NO ADDITIONAL COST TO THE TOWN OF WINDERMERE.

SUMMARY OF SODDING

LOCATION STA. TO STA.	SIDE	PLAN SY	FINAL SY
BAYSHORE DRIVE		408	
OUTFALL SWALE		112	
TOTALS		520	

SUMMARY OF EARTHWORK

DESCRIPTION	EMBANKMENT		EXCAVATION	
	PLAN CY	FINAL CY	PLAN CY	FINAL CY
BAYSHORE DRIVE	0		96	
OUTFALL SWALE	0		33	
TOTALS	0		129	

NO
THE

REV.	DATE	DESCRIPTION	APP'D BY

SIGN OFF: CLIENT, PM/CM SC, PM/CM DM, PM, CM, OTHERS

DATE | TITLE: PDC SURVEY | DRAWN BY: CAZU | DESIGNED BY: MRG | CHECKED BY: MRG | DATE: FEBRUARY 2016

MGEC MICHAEL GALURA ENGINEERING CONSULTANTS, LLC
3222 CORNING DRIVE, SUITE H
Orlando, Florida 32803 407/423-2983
CERTIFICATE OF AUTHORIZATION NO. 29032

TOWN OF WINDERMERE
PUBLIC WORKS DEPARTMENT
614 MAIN STREET, WINDERMERE, FLORIDA 34786

JOB No. TOW-022.01.080
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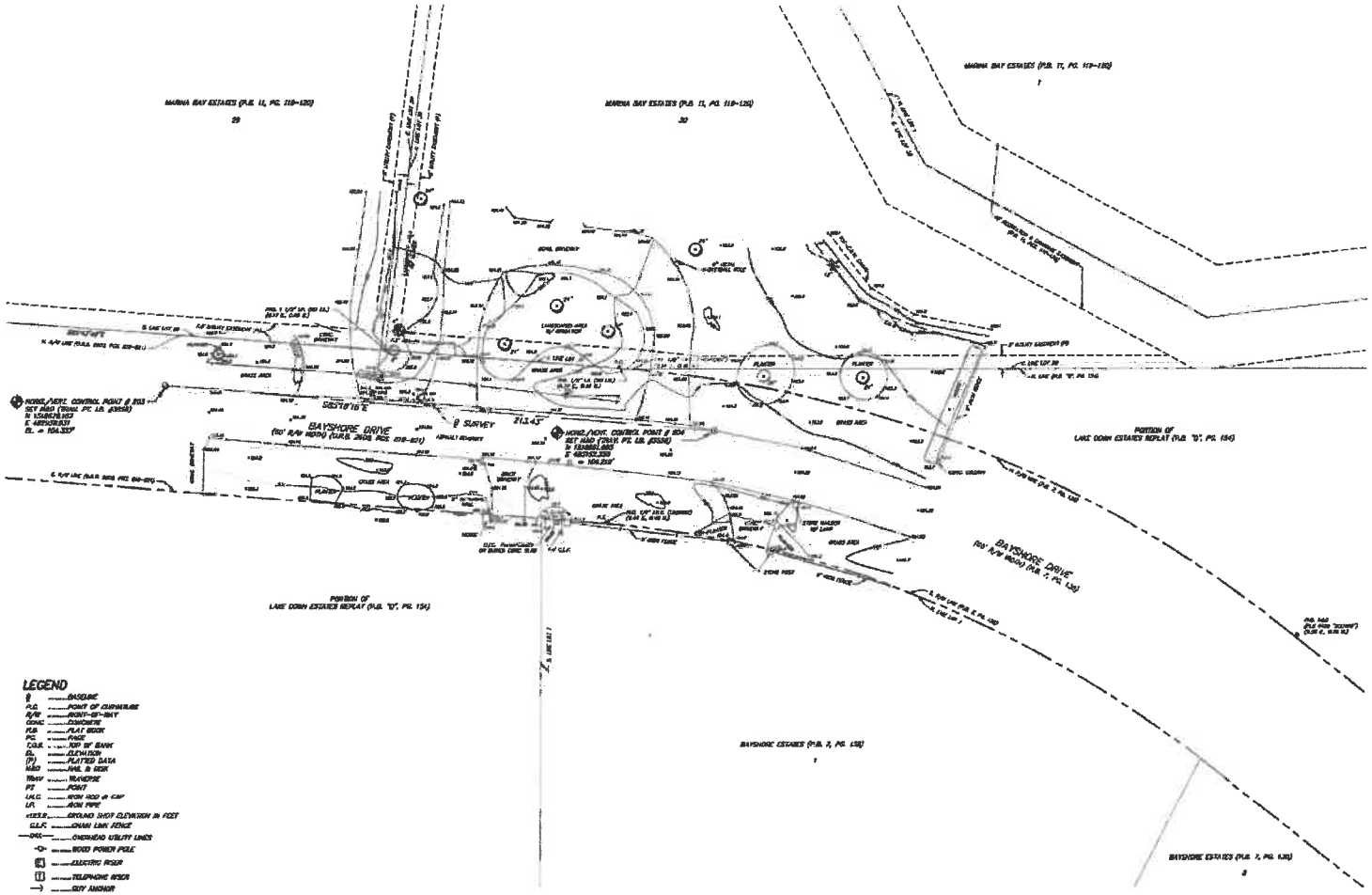
ARCHIVE DISC:
SCALE: NONE
VERT. = 1"=10'

SUMMARY OF QUANTITIES

DWG. | SHEET 4 OF 13



LEGEND

- ℄ ..... BASELINE
- P.O.C. ..... POINT OF COMMENCE
- R/W ..... RIGHT-OF-WAY
- CONC. ..... CONCRETE
- P.B. ..... PLAT BOOK
- P.G. ..... PAGE
- T.O.B. ..... TOP OF BANK
- EL. ..... ELEVATION
- (P) ..... PLATTED DATA
- N&D ..... NAIL & DISK
- TRAV ..... TRAVERSE
- PT ..... POINT
- I.R./C. ..... IRON ROD & CAP
- I.P. ..... IRON PIPE
- +13.5 ..... GROUND SHOT ELEVATION IN FEET
- C.L.F. ..... CHAIN LINK FENCE
- —OHE— ..... OVERHEAD UTILITY LINES
- ..... WOOD POWER POLE
- ..... ELECTRIC RISER
- ..... TELEPHONE RISER
- ..... GUY ANCHOR
- ..... CYPRESS TREE
- ..... MAPLE TREE
- ..... PALM TREE
- ..... OAK TREE
- ..... MAILBOX

SURVEYOR'S NOTES:

(1) THIS SPECIAL PURPOSE TOPOGRAPHIC SURVEY IS NOT VALID UNLESS IT BEARS THE SIGNATURE AND ORIGINAL RAISED SEAL OF THE FLORIDA LICENSED SURVEYOR AND MAPPER DESCRIBED BELOW.

(2) NO ABSTRACT FOR RIGHTS-OF-WAY, EASEMENTS, OWNERSHIP OR OTHER INSTRUMENTS OF RECORD HAVE BEEN PROVIDED TO THIS FIRM.

(3) ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 AND ARE BASED ON THE FOLLOWING ORANGE COUNTY ENGINEERING DEPARTMENT'S BENCHMARKS:
A-060-0071 PUBLISHED ELEVATION = 110.375'
A-060-0076 PUBLISHED ELEVATION = 106.704'

(4) BEARINGS SHOWN HEREON ARE BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, N.A.D. 1983, U.S.N. ADJUSTMENT OF 1990, LOCKING A BEARING OF "SOUTH 89°18'16" EAST FOR THE MONUMENTED NORTH RIGHT-OF-WAY LINE OF BAYSHORE DRIVE.

(5) UNLESS OTHERWISE NOTED OR SHOWN HEREON, MOBILE HOME GROUND IMPROVEMENTS WERE LOCATED. UNDERGROUND IMPROVEMENTS, SUCH AS FOUNDATIONS AND UTILITIES, WERE NOT LOCATED.

(6) THE DELINEATION OF LANDS SHOWN HEREON IS AS PER THE CLIENT'S INSTRUCTIONS.

(7) THE VERTICAL CONTROL ESTABLISHED FOR THIS SURVEY IS BASED ON A CLOSED LEVEL LOOP, HAVING A CLOSURE ACCURACY WHICH MEETS OR EXCEEDS THAT REQUIRED BY THE MINIMUM TECHNICAL STANDARDS SET FORTH IN CHAPTER 61G17-6, FLORIDA ADMINISTRATIVE CODE, FLORIDA STATUTES 472.027.

(8) UNLESS OTHERWISE SHOWN, ALL DIMENSIONS AS SHOWN HAVE BEEN CALCULATED FROM A CLOSED FIELD TRAVERSE OR DIRECT FIELD MEASUREMENT.

(9) ATTENTION IS DIRECTED TO THE FACT THAT THIS MAP MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

(10) AS DIRECTED BY THE CLIENT, THE SPECIFIC PURPOSE OF THIS SURVEY IS TO DETERMINE THE LOCATION AND ELEVATIONS, RELATIVE TO THE MENTIONED VERTICAL DATUM, OF THE UNDERLYING, ABOVEGROUND TOPOGRAPHIC FEATURES AND THE LANDS LYING WITHIN THOSE PORTIONS OF BAYSHORE DRIVE AND LOTS 29 AND 30, MARINA BAY ESTATES, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 11, PAGES 119 THROUGH 120, PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA, DEPICTED HEREON.

(11) TREES OVER 6" DBH OR GREATER IN SIZE WHICH ARE LOCATED WITHIN THE PROJECT AREA WERE SURVEYED AND ARE DEPICTED HEREON.

(12) THIS SURVEY DOES NOT CONSTITUTE A BOUNDARY SURVEY, AS SUCH.

(13) NORTH-SOUTH AND EAST-WEST TIES TO RECOVERED MONUMENTATION AND VARIOUS LAND BOUNDARY CORNERS SHOWN HEREON ARE OF COORDINATE DIFFERENCE.

(14) THE SURVEYED LANDS MAY BE SUBJECT TO JURISDICTIONAL ENTITIES, AND DETERMINATION OF GOVERNANCY WAS NOT MADE AS PART OF THIS SURVEY.

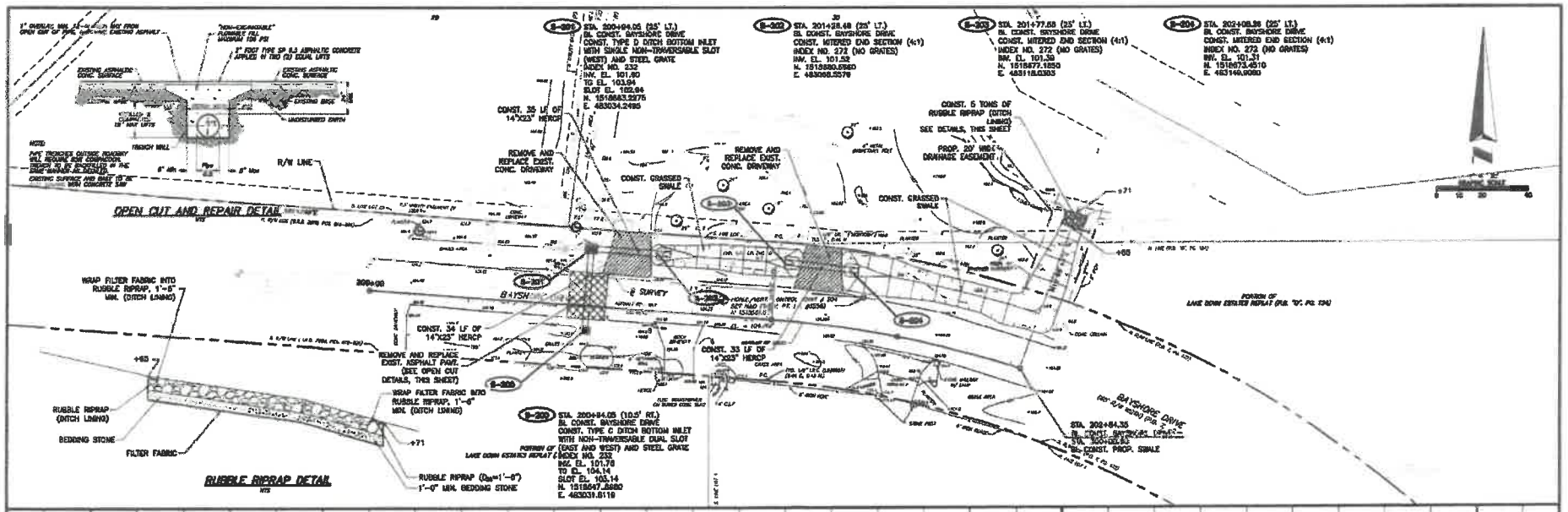
DAVID A. WHITE, P.S.M.
FLORIDA REGISTRATION NO. 4044
PROFESSIONAL ENGINEERING CONSULTANTS, INC.
CERTIFICATE OF AUTHORIZATION NO. LB-3558
LAST DATE OF FIELD SURVEY: JULY 22, 2009
DATE OF SIGNATURE: JULY 22, 2009

DATE	BY	REVISIONS

PEC PROFESSIONAL ENGINEERING CONSULTANTS, INC.
engineers planners surveyors
Suite 1580 • Eola Park Centre • 200 East Robinson Street • Orlando, Florida 32801 • 407/422-0062

SPECIFIC PURPOSE TOPOGRAPHIC SURVEY
LOCATED IN
SECTION 5, TOWNSHIP 23 SOUTH, RANGE 28 EAST
TOWN OF WINDERMERE, ORANGE COUNTY, FLORIDA

JOB NO.:	709353
DATE:	07-21-09
DRAWN BY:	D.G.C.
CHECKED BY:	P.S.
F.B.	1551
PAGE(S)	35-45



REV.	DATE	DESCRIPTION	APP'D BY

DESIGN BY: CUGHT
PM/CM BC
PM
CM
OTHERS

DATE: FEB SURVEY
DRAWN BY: CADD
DESIGNED BY:
CHECKED BY:
DATE: FEBRUARY 2010

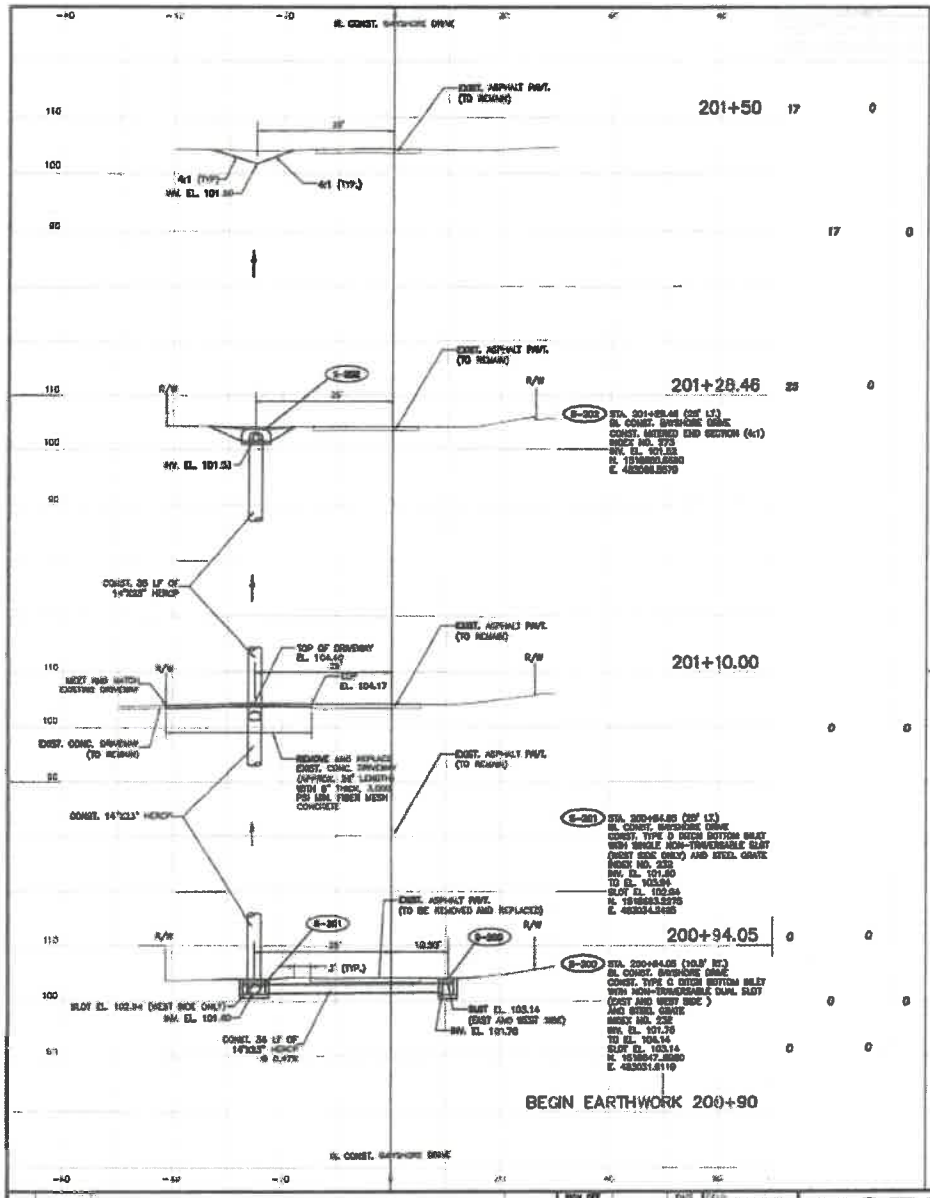
MGEC MICHAEL GALURA ENGINEERING CONSULTANTS, LLC
3222 CORINE DRIVE, SUITE H
Orlando, Florida 32803 407/493-0983
CERTIFICATE OF AUTHORIZATION NO. 28032

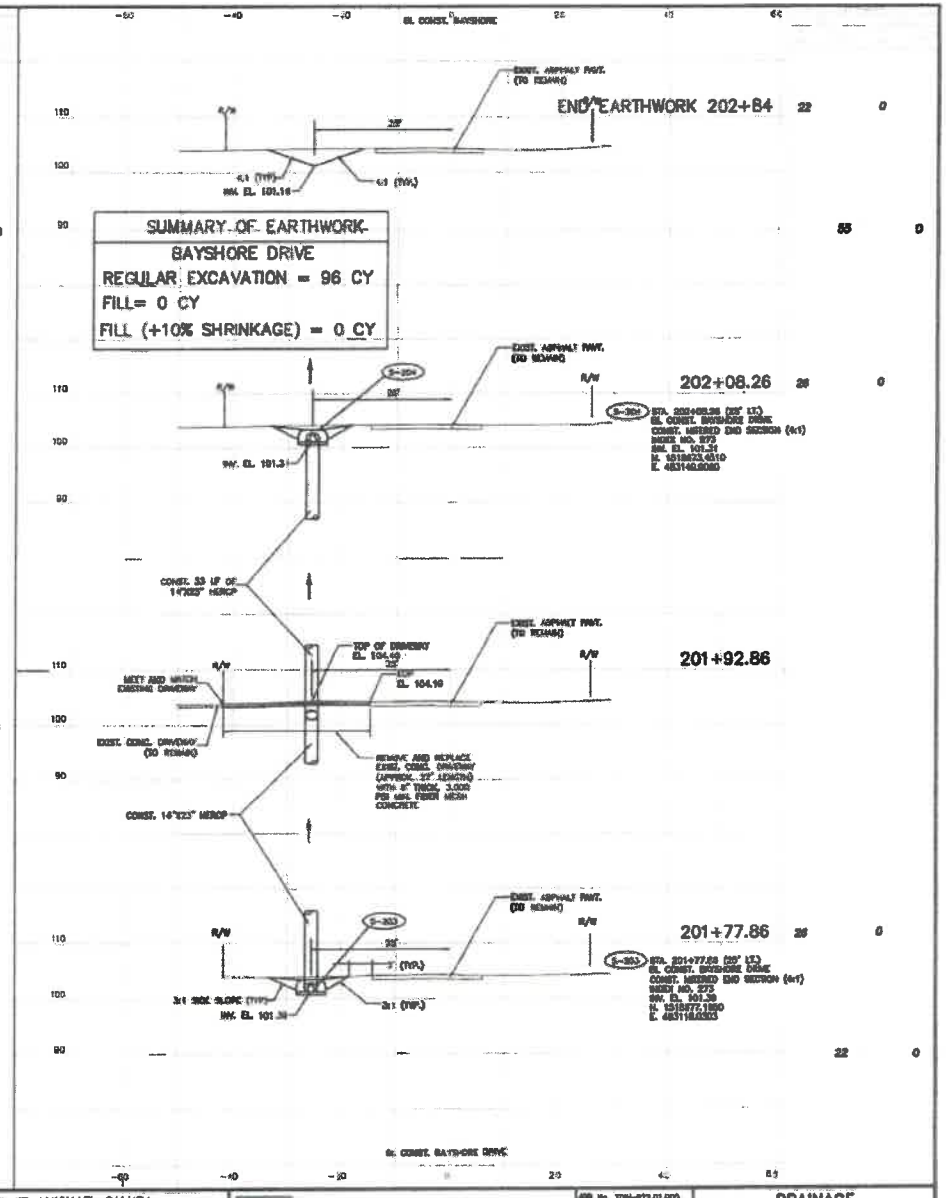
TOWN OF WINDERMERE
PUBLIC WORKS DEPARTMENT
520 MAIN STREET, WINDERMERE, FLORIDA 34786

JOB No. 1038-022.01.000
FILE NAME: SIX LEFT MARGIN
ARCHIVE REF.:
SCALE: HORIZ.= 1"=20' VERT.= 1"=3'

PLAN AND PROFILE

DWG.
SHEET 6 OF 13





SUMMARY OF EARTHWORK
BAYSHORE DRIVE
REGULAR EXCAVATION = 96 CY
FILL= 0 CY
FILL (+10% SHRINKAGE) = 0 CY

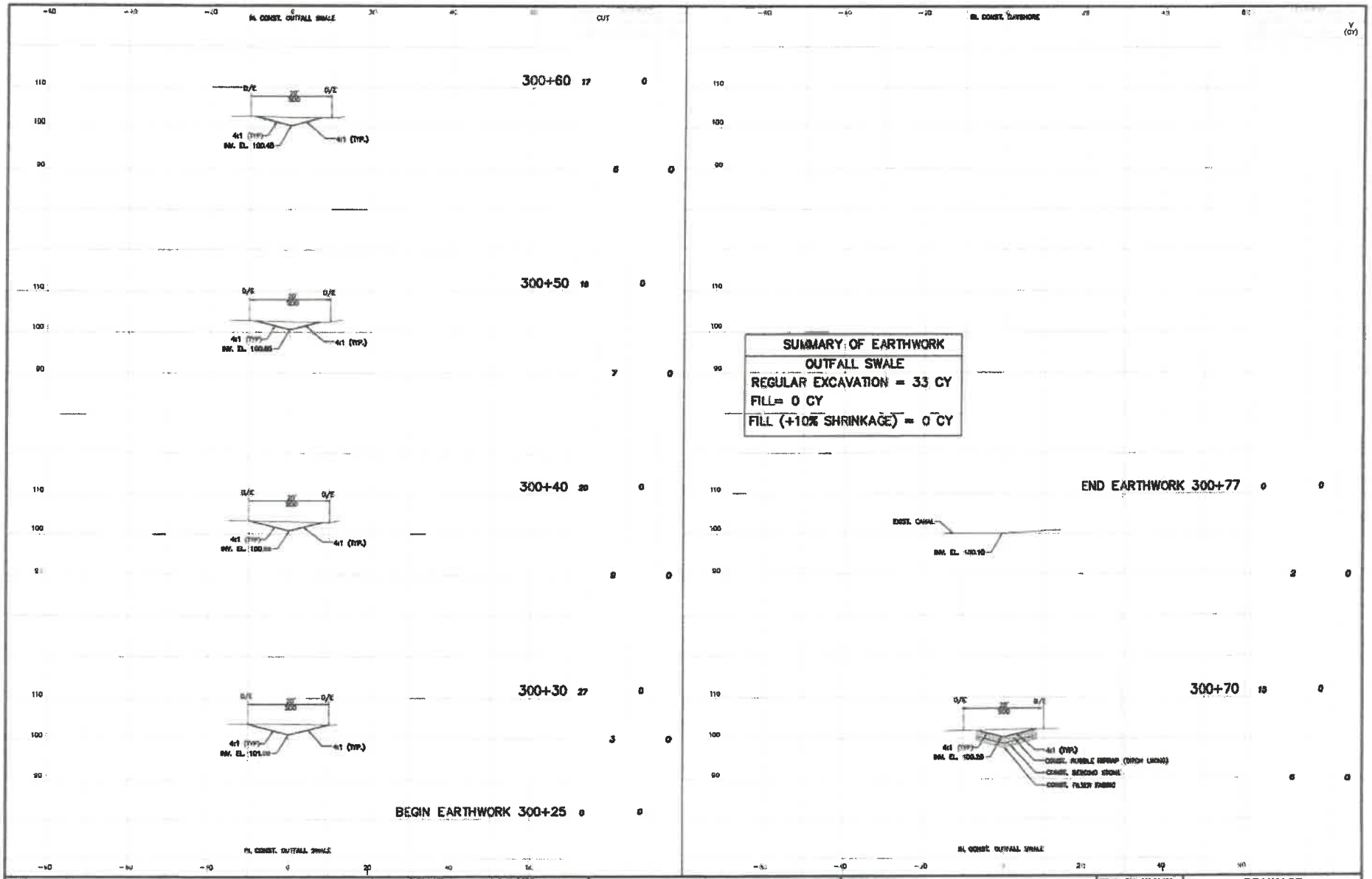
MGEC MICHAEL GALURA ENGINEERING CONSULTANTS, LLC
3222 CORRINE DRIVE, SUITE H
Orlando, Florida 32803
CERTIFICATE OF AUTHORIZATION NO. 29032
407/493-9983

TOWN OF WINDERMERE
PUBLIC WORKS DEPARTMENT
614 MAIN STREET, WINDERMERE, FLORIDA 34786

DRAINAGE
CROSS SECTIONS
BAYSHORE DRIVE

SCALE: HORIZ.= 1"=10' VERT.= 1"=10'

SHEET 7 OF 15

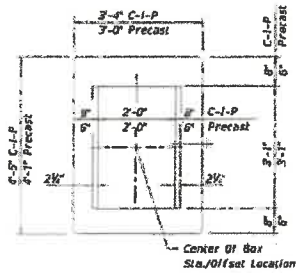


MGEC MICHAEL GALURA ENGINEERING CONSULTANTS, LLC
3222 CORRINE DRIVE, SUITE H
Orlando, Florida 32803 407/493-9883
CERTIFICATE OF AUTHORIZATION NO. 29332

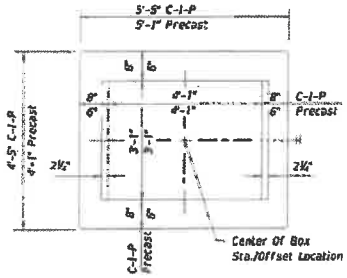
TOWN OF WINDERMERE
PUBLIC WORKS DEPARTMENT
614 MAIN STREET, WINDERMERE, FLORIDA 34875

DRAINAGE
CROSS SECTIONS
OUTFALL SWALE

SHEET 8 OF 13



PLAN



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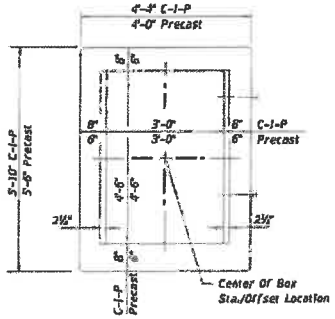

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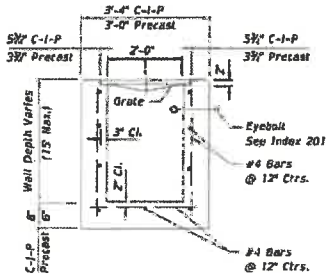

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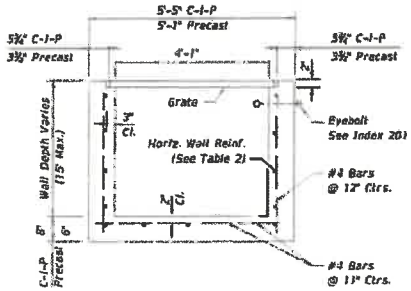

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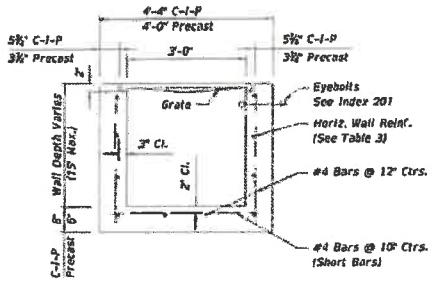


SECTION

HORIZONTAL WALL REINFORCING SCHEDULES (TABLE 1)

WALL DEPTH	SCHEDULE	AREA (in.²/ft.)	MAX. SPACING	
			BARS	WWF
0'-15'	A12	0.20	12"	8"

TYPE C

Recommended Maximum Pipe Size:

2'-0" Wall - 18" Pipe
3'-1" Wall - 24" Pipe (18" where an 18" pipe enters a 2'-0" wall)

HORIZONTAL WALL REINFORCING SCHEDULES (TABLE 2)

WALL DEPTH	SCHEDULE	AREA (in.²/ft.)	MAX. SPACING	
			BARS	WWF
0'-6'	A12	0.20	12"	8"
6'-10'	A6	0.20	6"	5"
10'-13'	A4	0.20	4"	3"
10'-15'	B5.5	0.24	5½"	5"

TYPE D

Recommended Maximum Pipe Size:

3'-1" Wall - 24" Pipe
4'-1" Wall - 36" Pipe

HORIZONTAL WALL REINFORCING SCHEDULES (TABLE 3)

WALL DEPTH	SCHEDULE	AREA (in.²/ft.)	MAX. SPACING	
			BARS	WWF
0'-5'	A12	0.20	12"	8"
0'-7.5'	A6	0.20	6"	5"
7.5'-10'	B5.5	0.24	5½"	5"
10'-15'	C6.5	0.37	6½"	6"

TYPE E

Recommended Maximum Pipe Size:

3'-0" Wall - 24" Pipe
4'-6" Wall - 36" Pipe

LAST REVISION	REVISION	DESCRIPTION
11/01/16		

FDOT FY 2017-18 DESIGN STANDARDS

DITCH BOTTOM INLET TYPES C, D, E AND H

INDEX NO. 232

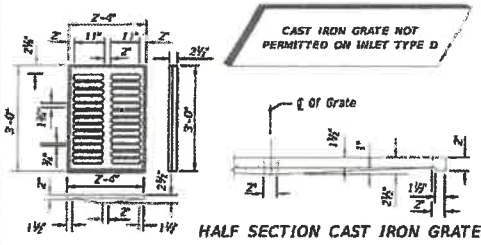
SHEET NO. 1 of 7

MGEC MICHAEL GALURA ENGINEERING CONSULTANTS, LLC
3222 CORRIGE DRIVE, SUITE H
Orlando, Florida 32803
CERTIFICATE OF AUTHORIZATION NO. 29032
407/493-9683

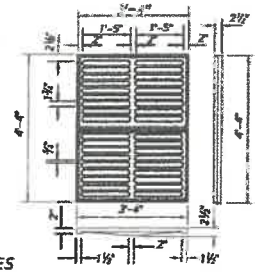
TOWN OF WINDERMERE
PUBLIC WORKS DEPARTMENT
614 MAIN STREET, WINDERMERE, FLORIDA 34786

DITCH BOTTOM INLETS

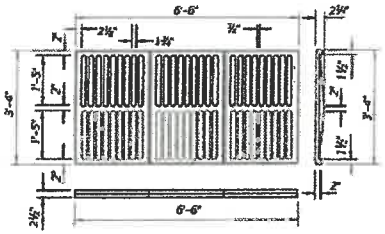
DWG. SHEET 9 OF 15



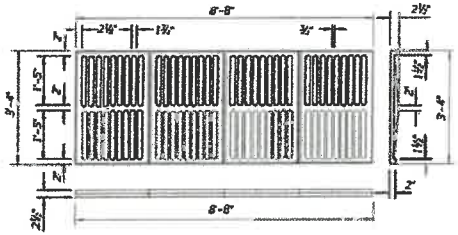
TYPE C
Approx. Weight 235 Lbs.



TYPE E
Approx. Weight 465 Lbs.

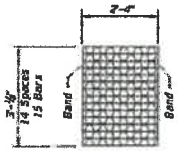


TYPE H (3-GRATE INLET)
Approx. Weight 725 Lbs.

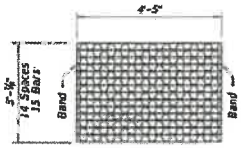


TYPE H (4-GRATE INLET)
Approx. Weight 967 Lbs.

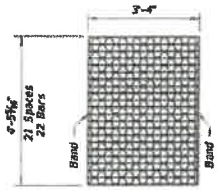
CAST IRON GRATES



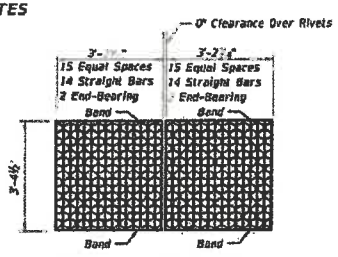
TYPE C
Straight Bars 2"x ½"
Reticuline Bars 1½" x 3/16"
Bands 2" x ½"
Approx. Weight 104 Lbs.



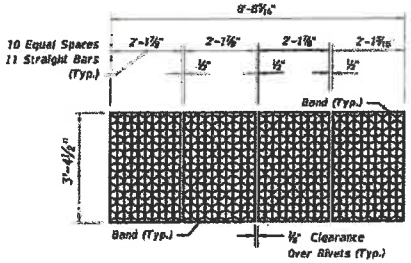
TYPE D
Straight Bars 2" x ½"
Reticuline Bars 1½" x 3/16"
Bands 2" x ½"
Approx. Weight 190 Lbs.



TYPE E
Straight Bars 2" x ½"
Reticuline Bars 1½" x 3/16"
Bands 2" x ½"
Approx. Weight 215 Lbs.



TYPE H (2-GRATE INLET)
Straight End-Bearing Bars 2" x 3/8"
Straight Bearing Bars 2" x ½"
Reticuline Bars 1½" x 3/16"
Banding Bars 2" x ½"
Approx. Total Weight 370 Lbs.



TYPE H (4-GRATE INLET)
Straight End-Bearing Bars 2" x ½"
Reticuline Bars 1½" x 3/16"
Banding Bars 2" x 3/16"
Approx. Total Weight 388 Lbs.

STEEL GRATES

NOTE: Steel Grates Are Required On Inlets With Traversable Slots And On Inlets where Bicycle Traffic Is Anticipated.

GENERAL NOTES

1. These inlets are suitable for bicycle traffic and are to be used in ditches, medians and other areas subject to infrequent traffic loadings but are not to be placed in areas subject to any heavy wheel loads. These inlets may be placed in areas subject to occasional pedestrian traffic such as landscaped areas and pavement areas where pedestrians can walk around the inlet.

2. Inlets subject to minimal debris should be constructed without slots. Where debris is a problem inlets should be constructed with slots. Slotted inlets located within roadway clear zones and areas subject to pedestrians shall have traversable slots. The traversable slot modification is not adaptable to inlet Type H. Slots may be constructed at either or both ends as shown on plans. Traversable slots shall not be used in areas subject to occasional bicycle traffic.

3. Steel grates are to be used on all inlets where bicycle traffic is anticipated. Steel grates are to be used on all inlets with traversable slots. Either cast iron or steel grates may be used on inlets without slots where bicycle traffic is not anticipated. Either cast iron or steel grates may be used on all inlets with non-traversable slots. Subject to the selection described above, when Alternate G grate is specified in the plans, either the steel grate, hot dip galvanized after fabrication, or the cast iron grate may be used, unless the plans stipulate the particular type.

4. Recommended maximum pipe sizes shown are for concrete pipe. Size for other types of pipe must be checked for fit.

5. All exposed edges and corners shall be 3/8" chamfer or tooled to 1/8" radius.

6. Concrete inlet pavement to be used on inlets without slots and inlets with non-traversable slots only when called for in the plans; but required on all traversable slot inlets. Cost to be included in contract unit price for inlets. Quantities shown are for information only.

7. Traversable slots constructed in existing inlets shall be paid for as inlets partial. For conversion work and method of payment see "TRAVERSABLE SLOT INLETS (PARTIAL) FOR EXISTING INLETS".

8. Sodding to be used on all inlets not located in paved areas and paid for under contract unit price for Performance Turf, SY.

9. For supplementary details see Index No. 201.

10. All reinforcing is Grade 60 bars with 2" min. cover unless otherwise noted. Bars to be cut or bent for 1½" clearance around pipe opening. Provide one additional #4 bar above and at each side of pipe opening.

LAST REVISION	REVISION	DESCRIPTION:	FDOT FY 2017-18 DESIGN STANDARDS	DITCH BOTTOM INLET TYPES C, D, E AND H	INDEX NO.	SHEET NO.
07/01/10					232	3 of 7

10/11/2016 10:27:41 AM

REV.	DATE	DESCRIPTION	APP'D BY

SIGN OFF: CLIENT, PM/CM SC, PM/CM DB, PM, DB, ENGRG

FCO SURVEY

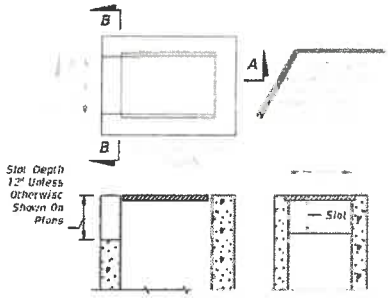
MGEC MICHAEL GALURA ENGINEERING CONSULTANTS, LLC
3222 CORINE DRIVE, SUITE H
Orlando, Florida 32803 407/493-0983
CERTIFICATE OF AUTHORIZATION NO. 29032

TOWN OF WINDERMERE
PUBLIC WORKS DEPARTMENT
614 MAIN STREET, WINDERMERE, FLORIDA 34786

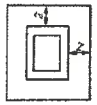
JOB No. TOW-022.01.000
FILE NAME: SEE LEFT HARROW
SCALE: NONE

DITCH BOTTOM INLETS

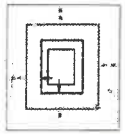
DWG. SHEET 10 OF 13



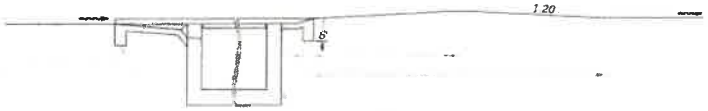
SECTION AA SECTION BB
NON-TRAVERSABLE SLOTS



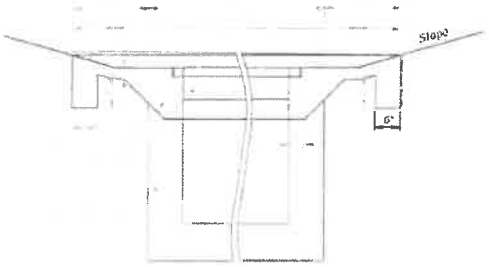
SOD ONLY



PAVT. AND SOD
General Notes Nos. 6 and 7.
) PAVEMENT FOR INLETS WITHOUT
SLOTS AND INLETS NON-TRAVERSABLE SLOTS

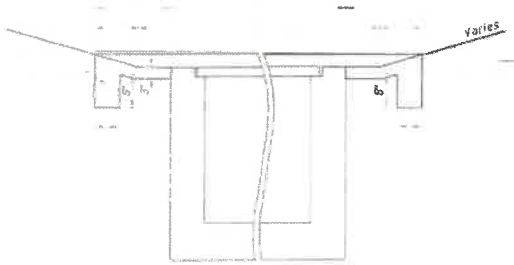


DITCH BLOCK TS WITH OR

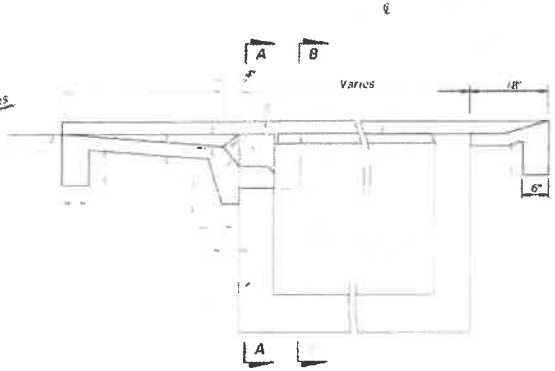


AA

PAVEMENT AND SODDING
FOR TRAVERSABLE SLOTS



SECTION BB



SINGLE SLOT SHOWN SLOTS

SECTION CC

TRAVERSABLE SLOTS FOR EXISTING INLETS

	1.05	12		16
				19
0.99	7.37	1.24	14	18

REV.	DATE	DESCRIPTION	APP'D BY	

DSN OFF		
CLIENT		
PM/CM BC		
PM/CM DB		
PM		
CM		
OTHERS		

FIELD: FED SURVEY
DRAWN BY: SAND
DESIGNED BY: MBG
CHECKED BY: MBG
DATE: FEBRUARY 2018

MGEC MICHAEL GALURA ENGINEERING CONSULTANTS, LLC
3222 CORINNE DRIVE, SUITE H
Orlando, Florida 32803 407/493-0863
CERTIFICATE OF AUTHORIZATION NO. 29032

TOWN OF WINDERMERE
PUBLIC WORKS DEPARTMENT
614 MAIN STREET, WINDERMERE, FLORIDA 34786

JOB No. TOW-022.01.000
FILE NAME: DIT LIST MARION
ARCHIVE DISC:
SCALE: NONE

DITCH BOTTOM INLETS

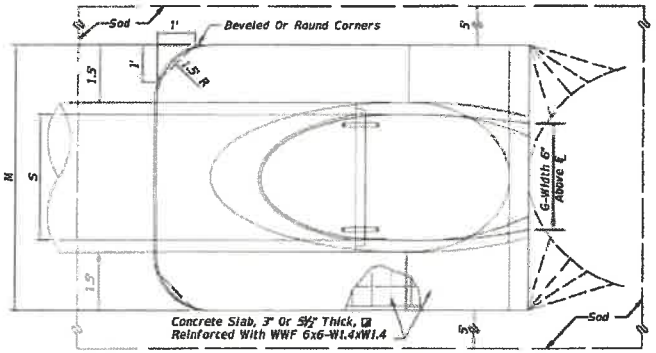
DWG. SHEET 11 OF 12

DIMENSIONS & QUANTITIES

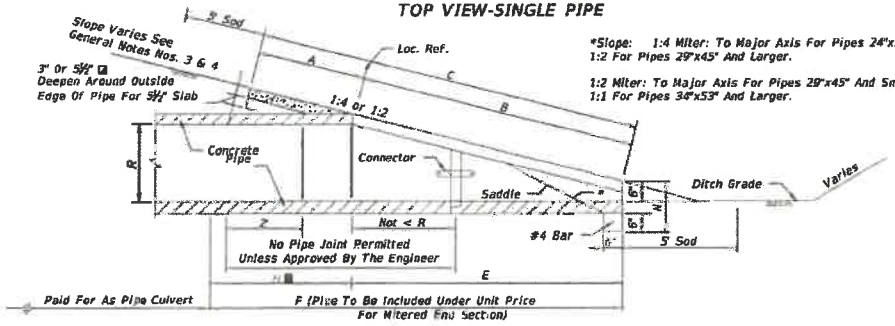
	Rise R	Span S	X	A	B	C	E	F	G	H ■	M Single Pipe	M Double Pipe	M Triple Pipe	M Quad. Pipe	N	5½" CONC. SLAB (CY) ◪ Single Pipe	5½" CONC. SLAB (CY) ◪ Double Pipe	5½" CONC. SLAB (CY) ◪ Triple Pipe	5½" CONC. SLAB (CY) ◪ Quad. Pipe	SODDING (SY) Single Pipe	SODDING (SY) Double Pipe	SODDING (SY) Triple Pipe	SODDING (SY) Quad. Pipe
1:2 Slope	14"	18"	7'-0"	1.97	1.87	2.59	1.96	4	1.50	2.4	4.82	7.75	10.53	13.42	1.21	0.30	0.49	0.67	0.85	21	24	27	30
	14	24"	7'-2"	2.01	1.99	4.00	1.89	5	1.90	2.7	5.38	8.61	12.04	15.18	1.23	0.37	0.59	0.81	1.02	22	26	29	33
	19	30"	4'-0"	2.11	2.92	5.07	2.77	6	2.19	3.3	6.04	10.04	14.04	18.04	1.27	0.50	0.80	1.09	1.39	24	28	33	37
	24	38"	5'-0"	2.20	3.85	6.05	3.56	7	2.83	3.4	6.70	11.70	16.79	21.79	1.31	0.62	1.01	1.45	1.86	26	31	36	42
	29	45"	5'-11"	2.34	4.79	7.13	4.39	8	3.19	3.8	7.50	13.42	19.33	25.25	1.38	0.75	1.30	1.84	2.39	28	34	41	47
	34	53"	7'-0"	2.47	5.77	8.15	5.23	9	3.57	3.8	8.29	15.25	22.25	29.25	1.42	0.90	1.61	2.32	3.03	30	37	45	51
	38	60"	7'-10"	2.52	6.48	8.98	5.89	9	3.95	3.1	8.92	16.75	24.58	32.42	1.46	1.03	1.89	2.74	3.60	31	40	49	57
	43	68"	8'-11"	2.62	7.39	10.01	6.72	10	4.28	3.9	9.67	18.58	27.50	36.42	1.50	1.19	2.26	3.33	4.40	33	43	53	63
	48	76"	9'-11"	2.71	8.33	11.04	7.56	11	4.59	4.4	10.42	20.33	30.25	40.17	1.54	1.38	2.65	3.93	5.21	35	46	57	68
	52	83"	10'-8"	2.80	9.26	12.06	8.39	12	4.77	3.6	11.08	21.75	32.42	43.08	1.58	1.55	3.03	4.50	5.98	37	49	61	73
	58	91"	11'-8"	2.90	10.19	13.09	9.27	13	5.01	3.8	11.83	23.50	35.17	46.83	1.63	1.75	3.47	5.20	6.93	39	52	65	78
1:4 Slope	14"	18"	2'-10"	2.36	2.06	3.42	2.07	5	1.50	2.0	4.97	7.75	10.58	13.42	1.21	0.45	0.68	0.92	1.14	23	26	29	32
	14	24"	3'-2"	2.44	2.75	4.19	2.70	6	1.90	2.2	5.38	8.71	12.04	15.38	1.23	0.53	0.83	1.12	1.42	24	28	32	36
	19	30"	4'-0"	2.62	3.47	5.09	3.36	9	2.37	2.8	6.04	10.04	14.04	18.04	1.27	0.74	1.13	1.57	1.98	27	32	38	43
	24	38"	5'-10"	2.79	4.18	6.07	4.03	10	2.83	3.0	6.70	11.70	16.70	21.70	1.31	0.97	1.57	2.19	2.81	30	36	41	47
	29	45"	6'-11"	3.03	5.07	7.05	4.70	11	3.19	3.2	7.50	13.42	19.33	25.25	1.38	1.28	2.07	2.92	3.77	32	40	46	53
	34	53"	7'-0"	3.27	6.62	8.04	5.36	13	3.57	2.6	8.29	15.25	22.25	29.25	1.42	1.48	2.62	3.77	4.92	36	44	52	59
	38	60"	7'-10"	3.38	7.39	10.38	6.70	15	3.95	2.7	8.92	16.75	24.58	32.42	1.46	1.72	3.12	4.51	5.92	38	47	56	65
	43	68"	8'-11"	3.56	8.33	11.73	7.56	17	4.28	2.6	9.67	18.58	27.50	36.42	1.50	2.02	3.78	5.56	7.32	41	51	61	71
	48	76"	9'-11"	3.73	9.43	13.18	8.03	19	4.59	4.0	10.42	20.33	30.25	40.17	1.54	2.34	4.29	6.64	8.79	44	55	66	77
	53	83"	10'-8"	3.91	10.19	14.08	8.70	20	4.77	3.3	11.08	21.75	32.42	43.08	1.58	2.66	5.17	7.66	10.16	47	59	71	83
	58	91"	11'-8"	4.08	10.87	15.05	9.36	22	5.01	3.6	11.83	23.50	35.17	46.83	1.63	3.02	5.95	8.93	11.90	50	63	76	89

◪ See General Note No. 3.
See Sheet 5 For 3" Slab Quantities

■ Values shown for estimating pipe quantities and are for information only.



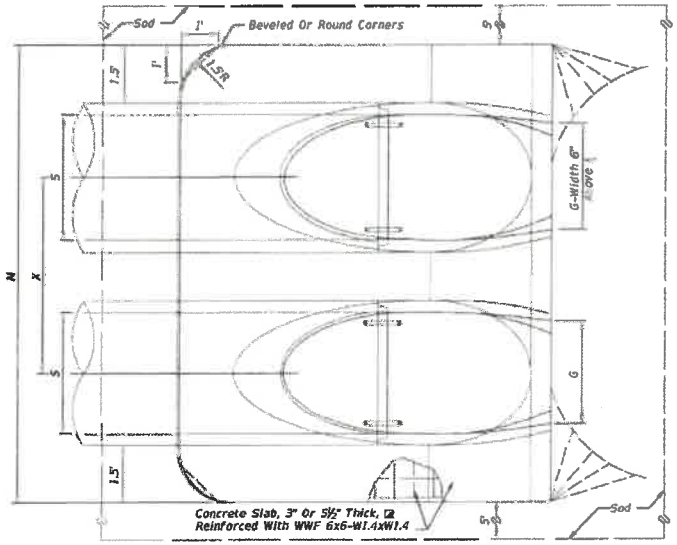
TOP VIEW-SINGLE PIPE



*Slope: 1:4 Miter: To Major Axis For Pipes 24"x38" And Smaller.
1:2 For Pipes 29"x45" And Larger.

1:2 Miter: To Major Axis For Pipes 29"x45" And Smaller.
1:1 For Pipes 34"x53" And Larger.

SECTION



NOTE: See Sheet 6 For Details And Notes.

TOP VIEW - MULTIPLE PIPE

SINGLE AND MULTIPLE ELLIPTICAL CONCRETE PIPE

REV.	DATE	DESCRIPTION	APP'D BY

DESIGN BY: CLIENT: PW/CM SC / PW/CM DM / PW / CM / OTHERS: DATE:

FIELD: PCD SURVEY
DRAWN BY: DATE:
DESIGNED BY: MBG
CHECKED BY: MBG
DATE: FEBRUARY 2014

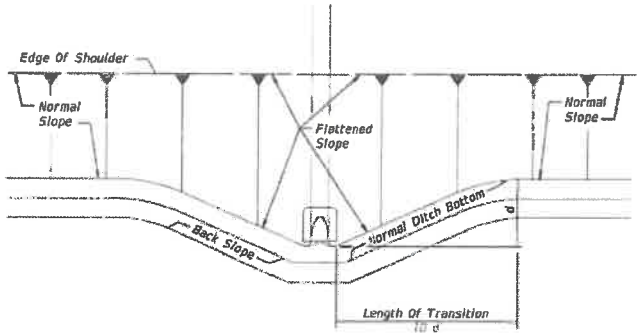
MGEC MICHAEL GALURA ENGINEERING CONSULTANTS, LLC
3222 CORINNE DRIVE, SUITE H
Orlando, Florida 32803 407/493-9983
CERTIFICATE OF AUTHORIZATION NO. 29032

TOWN OF WINDERMERE
PUBLIC WORKS DEPARTMENT
614 MAIN STREET, WINDERMERE, FLORIDA 34786

JOB No. TOW-022.01.020
FILE NAME SEE LEFT MARGIN
ARCHIVE DISC
SCALE: NONE

MITERED END SECTION

DWG. SHEET 12 OF 13



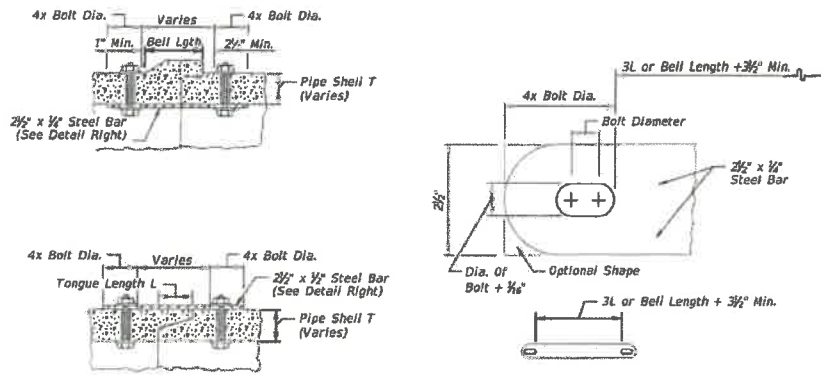
PLAN

NOTE: See General Note 4

SLOPE AND DITCH TRANSITIONS

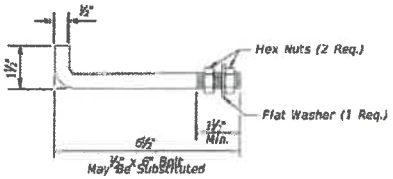
GENERAL NOTES

1. Unless otherwise designated in the plans, concrete pipe mitered end sections may be used with any type of cross drain pipe; corrugated steel pipe mitered end sections may be used with any type of cross drain pipe except aluminum pipe; and, corrugated aluminum mitered end sections may be used with any type of cross drain pipe except steel pipe. When bituminous coated metal pipe is specified for cross drain pipe, mitered end sections shall be constructed with like pipe or concrete pipe. When the mitered end section pipe is dissimilar to the cross drain pipe, a concrete jacket shall be constructed in accordance with Standard Index 280.
2. Corrugated polyethylene pipe (HDPE), polyvinyl-chloride pipe (PVC) and polypropylene pipe (PPP) for cross drain applications shall utilize either corrugated metal or concrete mitered end sections (MES). When used in conjunction with corrugated (MES), connection shall be by either a formed metal band specifically designated to join HDPE or PVC pipe, with metal pipe or other coupler approved by the State Drainage Engineer. When used in conjunction with a concrete (MES), connection shall be by concrete jacket constructed in accordance with Index No. 280.
3. Mitered end sections for pipe sizes 15", 18" and 24" round or equivalent pipe arch or elliptical pipe are permitted within the clear zone. When the slope intersection permits, the mitered end section may be located with the culvert opening as close as 8' beyond the outside edge of the shoulder.
4. Slope and ditch transitions shall be used when the normal roadway slope must be flattened to place end section outside clear zone. See detail left.
5. The reinforced concrete slab shall be constructed for all sizes of cross drain pipe and cast in place with Class NS concrete. Slabs shall be 5½" thick unless 3" thickness called for in plans.
6. Concrete pipe used in the assembly of mitered end sections shall be selective lengths to avoid excessive connections.
7. Corrugated metal pipe galvanizing that is damaged during beveling and perforating for mitered end section shall be repaired.
8. That portion of corrugated metal pipe in direct contact with the concrete slab and extending 12" beyond shall be bituminous coated prior to placing of the concrete.
9. When existing multiple cross drain pipes are spaced other than the dimensions shown in this detail, or have non-parallel axes, or have non-uniform sections, the mitered end sections will be constructed either separately as single pipe mitered end sections or collectively as multiple pipe end sections as directed by the Engineer; however, mitered end sections will be paid for each based on each independent pipe end.
10. The cost of all pipe(s), fasteners, reinforcing, connectors, anchors, concrete, sealants, jackets, and coupling bands shall be included in the cost for the mitered end section. Sodding shall be paid for separately under the contract unit price of Performance Turf, SY.
11. Mitered end sections shall be paid for under the contract unit price for Mitered End Section (CD), Each, based on each independent pipe end.



All bars, bolts, nuts and washers are to be galvanized steel.
Bolt diameters shall be ⅜" for 15" to 36" pipe and ⅝" for 42" to 72" pipe.
Two connectors required per joint, located 60° right and left of bottom center of pipe.
Bolt holes in pipe shell are to be drilled.

CONCRETE PIPE CONNECTOR



Anchors required for CMP only.

Anchor, washer and nuts to be galvanized steel.

Bend anchor where required to center in concrete slab. Damaged surfaces to be repaired after bending. Anchors are to be spaced a distance equal to four (4) corrugations. Place the anchors in the outside crest of corrugation.

Flat washers to be placed on inside wall of pipe.

Holes in the mitered end pipe are to be drilled or punched; burning not permitted.

ANCHOR DETAIL

SPECIAL DETAILS AND NOTES

REV.	DATE	DESCRIPTION	APP'D BY

SUBM OFF
CLIENT
PM/CM SIG
PM
CM
DT+SIG

DATE

TITLE: PCC SURVEY
DRAWN BY: CADD
DESIGNED BY: MBG
CHECKED BY: MBG
DATE: FEBRUARY 2014

MGEC MICHAEL GALURA ENGINEERING CONSULTANTS, LLC
3222 CORINE DRIVE, SUITE H
Orlando, Florida 32803 407/493-9653
CERTIFICATE OF AUTHORIZATION NO. 25032

TOWN OF WINDERMERE
PUBLIC WORKS DEPARTMENT
614 MAIN STREET, WINDERMERE, FLORIDA 34786

JOB No. TOW-022.01.000
FILE NAME: SEE LEFT MARGIN
ARCHIVE DISC:
SCALE: NONE

MITERED END SECTION

DRWG.

SHEET 13 OF 13

EXHIBIT C TO ATTACHMENT A

QUOTE

DATE SUBMITTED: June 26, 2019
NAME OF BIDDER: Gregori Construction Inc.

SCHEDULE OF BID ITEMS
TOWN OF WINDERMERE
ORANGE COUNTY, FLORIDA

BID #2019-03

BAYSHORE DRIVE DRAINAGE IMPROVEMENTS

Base Bid Item No.	Description	Estimated Quantity	Unit	Unit Price (in Words)	Unit Price (in Numbers)	Extended Summary Total Price (in Numbers)
	BASE BID					
101-1	MOBILIZATION (5% OF STORMWATER IMPROVEMENTS)	1	LS	Four Thousand Five Hundred	4,500.-	4,500.-
101-2	SURVEY, CONSTRUCTION LAYOUT AND CERTIFIED AS-BUILT	1	LS	Six Thousand Five Hundred	6,500.-	6,500.-
102-1	MAINTENANCE OF TRAFFIC	1	LS	One Thousand Five Hundred	1,500.-	1,500.-
104-14	PREVENTION, CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTON	1	LS	Two Thousand Seven Hundred Fifty	2,750.-	2,750.-
110-10	REMOVAL AND DISPOSAL OF CONCRETE (DRIVEWAY, ETC.)	78	SY	Fifty	50.-	3,900.-
120-9	EXCAVATION, EMBANKMENT AND GRADING	1	LS	Seven Thousand	7,000.-	7,000.-

DATE SUBMITTED: June 26, 2019
NAME OF BIDDER: Gregori Construction Inc.

SCHEDULE OF BID ITEMS
TOWN OF WINDERMERE
ORANGE COUNTY, FLORIDA

BID #2019-03

BAYSHORE DRIVE DRAINAGE IMPROVEMENTS

Base Bid Item No.	Description	Estimated Quantity	Unit	Unit Price (In Words)	Unit Price (In Numbers)	Extended Summary Total Price (In Numbers)
425-15-21	INLETS, DT BOT, TYPE C, <10' (WITH SINGLE NON-TRAVERSABLE SLOT)	1	EA	THREE THOUSAND FIVE HUNDRED	3,500.-	3,500.-
425-15-41	INLETS, DT BOT, TYPE D, <10' (WITH DUAL NON-TRAVERSABLE SLOT)	1	EA	THREE THOUSAND FIVE HUNDRED	3,500.-	3,500.-
430-175-218	PIPE CULVERT, CONCRETE, CLASS III, HORIZONTAL ELLIPTICAL, 14"X23" (EQIVALENT 18")	102	LF	ONE HUNDRED	100.-	10,200.-
430-984-625	MITERED END SECTION, OPTIONAL – ELLIPTICAL/ARCH 14"X23" SIDE DRAIN	3	EA	ONE THOUSAND FIVE HUNDRED	1,500.-	1,500.-
522-2	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	78	SY	ONE HUNDRED FIFTEEN	115.-	8,970.-
530-3-4	RIPRAP, RUBBLE, F&I, DITCH LINING	5	TN	FOUR HUNDRED	400.-	2,000.-
530-74	BEDDING STONE (115LB/SF)	4	TN	THREE HUNDRED TWENTY FIVE	325.-	1,300.-
570-1-2	PERFORMANCE TURF, SOD	520	SY	EIGHT	8.-	4,160.-

DATE SUBMITTED: June 26, 2019
NAME OF BIDDER: Gregori Construction Inc.

SCHEDULE OF BID ITEMS
TOWN OF WINDERMERE
ORANGE COUNTY, FLORIDA

BID #2019-03

BAYSHORE DRIVE DRAINAGE IMPROVEMENTS

BASE AND TOTAL BID COMPULATION

BASE BID	$	64,280.- (Figures)	Sixty Four Thousand Two Hundred Eighty - (Words)
TOTAL BID	$	64,280 (Figures)	Sixty Four Thousand Two Hundred Eighty - (Words)

ATTACHMENT B

DRUG FREE WORKPLACE CERTIFICATION

Attachment B
DRUG-FREE WORKPLACE CERTIFICATION

THE BELOW SIGNED Respondent CERTIFIES that it has implemented a drug-free workplace program. In order to have a drug-free workplace program, a business shall:

1. **Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance is prohibited in the work place and specifying the actions that will be taken against employees for violation of such prohibition.**
2. **Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.**
3. **Give each employee engaged in providing the commodities or contractual services that are under quote a copy of the statement specified in subsection 1.**
4. **In the statement specified in subsection 1, notify the employees that, as a condition of working on the commodities or contractual services that are under quote, the employee will abide by the terms of the statement and will notify the employer of any conviction or plea of guilty or nolo contendere to any violation occurring in the workplace no later than five (5) days after such conviction.**
5. **Impose a sanction on, or require the satisfactory participation in, drug abuse assistance or rehabilitation program if such is available in the employee's community, by an employee who is convicted.**
6. **Make a good faith effort to continue to maintain a drug-free workplace through implementation of this section.**

As the person authorized to sign this statement, I certify that this firm complies fully with the above requirements.

Date: 06 \ 26 \ 2019

Signature: _____

Printed Name: Andrew M. Gregori

Title: Vice President

Company: Gregori Construction Inc.

ATTACHMENT C

EQUAL EMPLOYMENT OPPORTUNITY CERTIFICATION

ATTACHMENT C
EQUAL EMPLOYMENT OPPORTUNITY CERTIFICATION

The Town requires compliance with State and Federal regulations governing Equal Employment Opportunity, External Equal Opportunities (EO), External On-the-Job Training (OJT), Title VI, and the Americans with Disabilities Act (ADA) programs.

Sub-recipients of federal-aid contracts must include notifications in all solicitations for bids of work or material and agreements subject to Title VI of the Civil Rights Act of 1964 and other nondiscrimination authorities. Sub-recipients, contractors and subcontractors may not discriminate in their employment practices or in the selection and retention of any subcontractor.

By signing this document, the Respondent hereby certifies their commitment to assure nondiscrimination in its programs and activities to the effect that no person shall on the grounds of race, color, national origin, sex, age, disability or income status be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination or retaliation under any federally or non-federally funded program or activity administered by the sub-recipient and/or its contractors.

Company Name: Gregori Construction Inc.

Authorized Representative Name and Title: Andrew M. Gregori, Vice President

Signature of Authorized Representative: _____

ATTACHMENT D

NON-COLLISION OATH

Attachment D
NON-COLLUSION OATH

STATE OF FL

COUNTY OF Brevard

Before me, the Undersigned, a Notary Public, for and in the County and State aforesaid, personally appeared:

Andrew M. Gregori **and made oath that the Respondent herein, its agents, servants, and/or employees, to the best of its knowledge and belief, have not in any way colluded with anyone for and on behalf of the Respondent, or themselves, to obtain information that would give the Respondent an unfair advantage over others, nor have they colluded with anyone for and on behalf of the Respondent, or themselves, to gain any favoritism in the award of the Contract.**

Affiant Signature

Sworn to (or affirmed) and subscribed before me this 25th **day of** June

20 19 **, by** Andrew M. Gregori

Signature of Notary Public

[STAMP HERE]

State of FL

Notary Public State of Florida
Esha M Drinkard
My Commission GG 261841
Expires 09/24/2022

Personally Known X **OR Produced Identification**

Type of Identification Produced: _____

Notary Public State of Florida
Esfia M Dinkant
My Commission GG 327611
Expires 08/24/2022

GRAMMIRE M. AYCH
NOTARY PUBLIC
STATE OF FLORIDA

ATTACHMENT E

GOOD FAITH AFFIDAVIT

Attachment E
GOOD FAITH AFFIDAVIT

I hereby propose to provide the services requested in the Town's RFP and, if awarded, enter into a contract with the Town. I agree that the terms and conditions of the Town's RFP shall take precedence over any conflicting terms and conditions submitted with my proposal and agree to abide by all conditions of the RFP, unless a properly completed Exceptions to Solicitation form is submitted. I acknowledge that the City may not accept the proposal due to any exceptions.

I certify that all information contained in my proposal is truthful to the best of my knowledge and belief. I further certify that I am duly authorized to submit this proposal on behalf of the company as its agent and that the company is ready, willing, and able to perform if awarded a contract.

I further certify, under oath, that this proposal is made without prior understanding, agreement, connection, discussion or collusion with any other person, company or corporation submitting a proposal for the same product or service; no gratuities, gifts or kick-backs were offered or given by the Respondent or anyone on its behalf to gain favorable treatment concerning this procurement; no elected official, employee or agent of Town or of any other company is interested in said proposal; and that the undersigned executed this affidavit with full knowledge and understanding of the matters therein contained and was duly authorized to do so.

Gregori Construction Inc.
Company Name

3950 South St.
Mailing Address

Titusville, FL 32780
City, State & Zip Code

Authorized Signature

321-593-9103 / 321-806-1765
Telephone Number/Fax Number

Andrew M. Gregori, VP
Name & Title, Printed

agregori@gregori-inc.com
Email Address

State of FL

County of Brevard

This foregoing instrument was acknowledged before me this 25th day of June, 2019, by

Andrew M. Gregori who is personally known to me or produced _____ as identification.

Esha M Drinkard
Signature of Notary

[STAMP HERE]

Notary Public State of Florida
Esha M Drinkard
My Commission GG 261841
Expires 09/24/2022

Notary Public State of Florida
Elsa M Dinkard
My Commission GG 248641
Expires 09/24/2022

TOWN OF WINDERMERE
EXECUTIVE SUMMARY

SUBJECT: **RFP 2019-05 Park Avenue Drainage and Sidewalk Improvements**

REQUESTED ACTION: **Staff Recommends Approval**

☐ Work Session (Report Only) **DATE OF MEETING:** **August 13, 2019**
☒ Regular Meeting ☐ Special Meeting

CONTRACT: ☐ N/A Vendor/Entity: Barracuda Building Corp

Effective Date: 08/14/2019 Termination Date: 08/15/2020
Managing Division / Dept: Public Works

BUDGET IMPACT: **Not To Exceed $260,000.00**
☐ Annual **FUNDING SOURCE:** **CIP Stormwater Projects**
☒ Capital **EXPENDITURE ACCOUNT:** **004 5380 000 7530**
☐ N/A

HISTORY/BACKGROUND/RECOMMENDATIONS:

Mayor & Council,

History
At the time Park Avenue was originally paved (30+ years ago), the road water runoff was not properly addressed and with the increased volume of vehicles and pedestrian traffic, it has become necessary to provide improved drainage along a portion of the roadway. With the drainage improvements, it would also be conducive at this time to improve and expand the sidewalk on the south side of the roadway to connect with the exiting sidewalk further to the west.

Background
To construct the stormwater culvert, the existing water main, owned by Orange County Utilities, will require to be relocated to avoid the conflict. By law, the utility owner is required to relocate, at their expense, any utilities that come into conflict with necessary infrastructure improvements. As Orange County, due to their backlog of projects, is not able to expedite the work within an acceptable timeframe, the Town will enter into an agreement with Orange County Board of County Commissioners for the reimbursement of said waterline relocation by our selected contractor, see attached agreement.

Recommendation

Bids were solicited thru RFP #2019-05 Park Avenue Drainage and Sidewalk Improvements via DemandStar and the Town website with no respondents. Staff reached out to several contractors to solicit bids, which resulted in three (3) quotes (see the attached breakdown for contractor/s and costing):

As noted from the three (3) contractor responses, they are all well qualified in the installation of underground utilities construction and have long-term experience in these services. The responses also indicate that the costing from each bidder is comparable, on an average, against each respondent.

For this, Staff recommends that the Town Council awards the contract to Barracuda Building Corporation, Inc. as they have the equipment and manpower to complete the project as advertised.

UTILITY ADJUSTMENT AGREEMENT

THIS UTILITY ADJUSTMENT AGREEMENT (the "Agreement") is made and entered into as of the date of last execution below ("Effective Date") by and between **ORANGE COUNTY,** a charter county and political subdivision of the State of Florida (the "COUNTY"), whose address is 201 South Rosalind Avenue, Orlando, Florida, 32801, and the **TOWN OF WINDERMERE,** a municipal corporation existing under the laws of the State of Florida ("WINDERMERE"), whose address is 614 Main Street, Windermere, Florida 34786. The COUNTY and WINDERMERE may hereinafter be referred to individually as a "Party" or collectively as the "Parties."

RECITALS

WHEREAS, WINDERMERE plans to construct the Park Avenue Sidewalk and Drainage Improvements (the "Improvements") as shown on **Exhibit "A"** attached hereto and incorporated herein by this reference (the "Project Plans") (the construction and installation of the Improvements pursuant to the Project Plans is referred to herein as the "Project"); and

WHEREAS, the COUNTY is the owner of a six-inch PVC water line and appurtenant facilities (the "Facilities") located within the Park Avenue right of way ("ROW"), which Facilities will be relocated as a result of the Project as shown on **Exhibit "B"** attached hereto and incorporated herein by this reference (the "Utilities Plans") (the construction and installation of the relocated Facilities pursuant to the Utilities Plans is referred to herein as the "Utilities Project"); and

WHEREAS, the Parties desire to formalize the terms and conditions whereby the Parties will coordinate the completion of the Utilities Project by WINDERMERE, at the COUNTY's expense.

NOW, THEREFORE, in consideration of the recitals, agreements, and mutual covenants contained herein, and for other good and valuable consideration, of which the Parties acknowledge the receipt and sufficiency, WINDERMERE and the COUNTY hereby agree as follows:

1. **Recitals.** All of the recitals set forth above are true and correct, and are incorporated in and made a part of this Agreement by this reference.

2. **Bidding and Selection of Construction Contractor.** WINDERMERE has competitively bid the construction of the Project with the inclusion of the Utilities Project

and provided copies of the construction contractor's bids to the COUNTY. Bidders shall be financially responsible and able to furnish payment and performance bonds as required in Section 6. The bids provide a separate itemized cost for the Utilities Project based on the separate "breakout" schedule prepared by the COUNTY.

WINDERMERE will award the contract to the successful low bidder, and notify the COUNTY. The COUNTY will review and approve the winning bid for the Utilities Project.

3. **The Utilities Project.**

a. **Construction of the Facilities within Right-of-Way.** The COUNTY desires to install approximately 300 linear feet of six-inch PVC water main in the ROW between stations 159+14 and 162+13 on Park Avenue as depicted in the Utilities Plans, at the COUNTY's expense.

b. **COUNTY Costs.** The Utilities Project costs are more specifically set forth in **Exhibit "C,"** attached hereto and incorporated herein by this reference (the "Utility Cost Estimate"). The COUNTY shall be responsible for the actual construction costs related to the Utilities Project. The Parties acknowledge and agree that **Exhibit "C"** is an estimate of Utilities Project costs and the COUNTY shall reimburse WINDERMERE for actual construction costs in an amount not to exceed the estimated amount set forth in **Exhibit "C."**

4. **Utilities Project Construction Items.** The following shall also apply in the performance of the Utilities Project:

a. In the event that the Utilities Plans are required to be revised in any way, the Parties shall cooperate in good faith to expedite the review and such necessary revisions to ensure that: (i) the location, construction and operation of the Facilities are harmonized with the Project Plans and design and construction of the Project in accordance with all applicable laws; (ii) the work schedule is synchronized with the construction schedule for the Project; (iii) the construction of the Project and the Utilities Project are accomplished in an expedient and cost-effective manner so as to limit, to the extent reasonably practical, costs of land acquisition, design, and construction, and to minimize impacts to the Project, the Facilities, and adjacent landowners.

b. WINDERMERE, at the COUNTY's expense, shall obtain all such permits and approvals necessary for the Utilities Project.

c. All COUNTY Facilities shall be available for use by the COUNTY upon completion of construction and acceptance by the COUNTY of the Utilities Project. The existing Facilities shall remain fully functional and in service until the relocated and newly installed Facilities are cleared by the COUNTY

and the Florida Department of Environmental Protection (FDEP) and placed into service.

d. WINDERMERE shall cause the contractor(s) to commence and diligently perform the Utilities Project to completion in accordance with the Utilities Plans, COUNTY's Utilities' current standards, and WINDERMERE's work schedule; provided, however, in the event that completion of the Utilities Project is delayed by events of force majeure (as defined in Section 21 below), the completion date shall be extended one day for each day of delay caused by such events. The Parties shall cooperate to harmonize construction of the Facilities with the construction or proposed construction of the Project improvements. Neither WINDERMERE, nor any employee, contractor, nor agent thereof shall cause any damage to the property or any improvements thereon.

e. Subject to terms and conditions of this Agreement, WINDERMERE or its contractor shall construct certain Facilities that will lie partly or totally within or across the proposed Project ROW. To the extent that any Facilities are located in portions of property belonging to WINDERMERE, WINDERMERE hereby grants the COUNTY perpetual right to access its Facilities for inspection, maintenance, and repair.

f. Within 30 days after the completion of the Utilities Project, WINDERMERE shall provide the COUNTY with as-builts and certifications from a project engineer duly licensed in the State of Florida certifying that the installation of the Facilities has been completed in accordance with the Utilities Plans, and all applicable permits and laws.

g. As soon as possible after the completion of the Utilities Project, WINDERMERE shall provide the COUNTY with a detailed final statement of all costs and expenses incurred by WINDERMERE in connection with the construction of the Utilities Project (the "Cost Statement"), together with all supporting documentation of such costs and expenditures. The Cost Statement and supporting records provided by WINDERMERE shall be in auditable form in accordance with generally accepted accounting principles. Within 60 days after receipt of the Cost Statement and supporting documentation, the COUNTY shall reimburse WINDERMERE for all such costs and expenses actually incurred for the COUNTY work portion of the Utilities Project (subject to any adjustment if the COUNTY's audit shows that such Cost Statement exceeds costs actually incurred or such costs are not reimbursable under the terms of this Agreement). The COUNTY shall make payment for the costs associated with the Utilities Project by issuing a check made payable to WINDERMERE, in the amount so expended by WINDERMERE, all in accordance with the foregoing. Should the COUNTY object to a reimbursement amount requested by WINDERMERE, the COUNTY shall pay the undisputed portion of the amount as set forth above,

and the COUNTY shall submit its objections of the disputed portion in writing to WINDERMERE within 15 business days of receipt of the written reimbursement request from WINDERMERE. The Parties shall meet to resolve disputes with a goal to resolve them within 20 business days of WINDERMERE's receipt of the COUNTY's written objections.

5. **Insurance.** For the duration of the Agreement, WINDERMERE and the COUNTY 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, employers' liability, business automobile liability, and commercial general liability coverage.

WINDERMERE or its contractor shall provide insurance with coverages and limits set forth in this Section 5.

a. Prior to any contractor commencing any portion of the Utilities Project and throughout the course of construction of the Utilities Project, WINDERMERE shall cause the contractor to procure and maintain insurance limits and terms as follows:

   (i) Workers Compensation insurance with statutory workers' compensation limits and no less than $100,000 for Employers' Liability with a waiver of subrogation in favor of the COUNTY and WINDERMERE and their agents, employees, and officials.

   (ii) Commercial general liability insurance for all operations including, but not limited to contractual, products, completed operations, and personal injury with limits of not less than $1,000,000 per occurrence and an aggregate limit of at least twice the per occurrence limit.

   (iii) Business automobile liability insurance for all owned, non-owned, or hired vehicles with limits of not less than $500,000 per occurrence.

The contractor's Florida-licensed surveyor responsible for signing and sealing the as-built drawings for the Utilities Project shall provide Professional Liability coverage (errors and omissions) with limits of not less than $1,000,000 per occurrence.

b. The COUNTY shall be specifically included as an additional insured under the policies required by this Section 5, and said insurance shall include a provision requiring the insurer to provide written notice to the COUNTY and WINDERMERE of cancellation at least 10 business days prior to cancellation of coverage.

c. The COUNTY reserves the right to request, and WINDERMERE shall produce within 15 days, proof of the existence of such insurance coverage and certificates verifying the amount and terms of such insurance coverage. Renewals of certificates of insurance shall be produced by WINDERMERE as necessary during the Utilities Project until WINDERMERE issues the bill of sale and the COUNTY accepts the Facilities and the Utilities Project.

d. WINDERMERE shall require each contractor performing work for the Utilities Project for, or on behalf of, WINDERMERE to secure and keep in force the insurance with coverages and limits set forth in Section 5.a. and b.

6. **Bond.** WINDERMERE shall require any contractor undertaking the construction of the Utilities Project to secure and maintain a payment bond and a performance bond in accordance with state law and COUNTY policy. WINDERMERE shall cause the contractor to list the COUNTY as co-obligee on all bond forms. Prior to commencing the construction of the Utilities Project, the general contractor shall obtain and deliver to the COUNTY a payment bond and a performance bond for the Utilities Project. The payment and performance bonds shall name the COUNTY as Dual-Obligee and be assignable to the COUNTY following acceptance of the Utilities Project by the COUNTY. The surety company issuing the payment bond and the performance bond shall meet the following qualifications:

a. Surety must be licensed to do business in the State of Florida, maintain an A-VI or better rating with A.M. Best or an equivalent rating agency and shall comply with the provisions of Section 255.05, Florida Statutes.

b. Surety must be listed on the most recent version of the U.S. Department of Treasury Fiscal Service, Bureau of Financial Management, Circular 570 entitled: "Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies."

c. All bonds/surety instruments shall be originals and issued by a producing agent with the authority to issue said bonds/surety instruments on behalf of the surety company. Attorneys-in-fact who sign bonds/surety instruments must attach with each bond/surety instrument a certified and effectively dated copy of their power of attorney. Agents of surety companies must list their name, address, and telephone number on all bonds/surety instruments

7. **Maintenance.** Upon completion and acceptance of the Utilities Project by the COUNTY, WINDERMERE shall cause its contractor to provide a Maintenance Bond for said work and the COUNTY shall be listed as co-obligee on the Maintenance Bond. WINDERMERE shall have no responsibility for the maintenance, operations or repairs of the Facilities upon completion and acceptance of the Utilities Project by the COUNTY, unless such repairs are due to damage caused by the negligence of WINDERMERE, its employees, contractors, or agents. Neither the COUNTY, nor any employee, contractor, nor agent thereof, shall cause any damage to improvements within the Utilities Project, or

take any actions that would weaken, diminish, or impair the lateral or subjacent support to the Project, or its appurtenant improvements. Without limiting the foregoing, the COUNTY shall be responsible for maintaining, at no cost to WINDERMERE, all permits, authorizations, and approvals of applicable regulatory agencies necessary for continued operation, use, maintenance, and repair of the Facilities.

8. **Default.** In the event either Party breaches any of the terms or conditions to be complied with or any of the covenants, agreements or obligations to be performed by such Party under the terms and provisions of this Agreement, the non-defaulting Party, at its sole discretion, shall be entitled to exercise any and all rights and remedies available to the non-defaulting Party at law and in equity, including without limitation, the right of specific performance, except as limited by the terms of this Section 8. Any damages recoverable as a result of a failure to perform shall be limited to direct actual damages only. Notwithstanding any other provision of this Agreement, in no event shall either party have liability to the other party under this Agreement, whether based in contract, in tort, or otherwise, for any special, incidental, indirect, exemplary, or consequential damages.

9. **Notice.** Any notice required or allowed to be delivered hereunder shall be in writing and be deemed to be delivered when (i) hand delivered to the official hereinafter designated, or (ii) three days after the date on which deposited in the United States mail, postage prepaid, certified mail return receipt requested, and addressed to a Party at the address set forth opposite the Party's name below, or such other address as the Party shall have specified by written notice to the other Party delivered in accordance herewith.

If to the COUNTY:	Orange County Utilities Department 9150 Curry Ford Road Orlando, Florida 32825-7600 Attn: Director
With copy to:	Orange County Administrator's Office Orange County Administration Building 201 S. Rosalind Avenue, 5th Floor Orlando, Florida 32801-3527 Attn: County Administrator
If to WINDERMERE:	TOWN OF WINDERMERE 614 Main Street Windermere, Florida 34786-3503 Attn: Public Works Director
With copy to:	Town of Windermere 614 Main Street Windermere, Florida 34786-3503 Attn: Town Manager

10. **Indemnification.** Neither Party to this Agreement nor its officers, agents, nor employees shall, by this Agreement, be deemed to assume any liability for the acts, omissions, and/or negligence of the other Party. To the extent allowable by law, each Party shall defend, indemnify, and hold the other Party harmless from all claims, damages, losses, and expenses (including attorneys' fees) arising out of or resulting from the negligent performance of its respective operations under the Agreement. Notwithstanding the foregoing, WINDERMERE and the COUNTY do not waive and do retain all defenses and protections provided to them under Florida and other applicable law, including without limitation, the defense of Sovereign Immunity as currently set forth in Section 768.28, Florida Statutes, for tort actions brought against WINDERMERE or the COUNTY, and such immunity shall be applicable to any claim or action brought pursuant to the foregoing indemnity provision even if said claim or action sounds in contract rather than in tort.

11. **Disputes.** All claims, disputes, and other matters in question between the Parties arising out of, or relating to, this Agreement or its performance or breach (a "Dispute") shall be resolved in the following order: (a) good-faith negotiation, (b) mediation, and then (c) judicial resolution. The process of "good-faith negotiation" requires each Party to set out in writing to the other its reason(s) for adopting a specific conclusion or for selecting a particular course of action, together with the sequence of subordinate facts leading to the conclusion or course of action. The good-faith negotiations shall include at least one meeting of representatives of the Parties. The Party-representative shall have authority to resolve the Dispute.

12. **Hazardous Materials.** WINDERMERE shall cause no hazardous materials or other potentially hazardous conditions on the property, and to the fullest extent permitted by law, WINDERMERE assumes all responsibility for, and agrees to defend, indemnify, and hold the COUNTY harmless from (a) all claims, cost and expenses, including reasonable attorney's fees, as a consequence of any sudden or non-sudden pollution of air, water, land and/or ground water arising from or in any way connected with the occupancy by WINDERMERE of the COUNTY'S property; and (b) any claim or liability including defense costs and expenses, arising under the federal or state law dealing with either such sudden or non-sudden pollution of air, water, land, and/or ground water arising from or the remedy thereof.

13. **Non-Waiver.** No consent or waiver, expressed or implied, by either Party, to or of any breach or default of the other Party, with regard to the performance by said other Party of its obligations under this Agreement shall be deemed or construed to constitute consent or waiver, to or of, any other breach or default in the performance of that Party, of the same or of any other objection of performance incumbent upon that Party. Failure on the part of either Party to complain of any act or failure to act on the part of the other Party in default, irrespective of how long the failure continues, shall not constitute a waiver by that Party of its rights and any remedies that exist under this Agreement, at law, or in equity.

14. **Entire Agreement.** This Agreement constitutes the entire agreement of the Parties, and no representations, inducements, promises, or agreements, oral or otherwise, between the Parties not embodied herein shall be of any force or effect. Any amendment to this Agreement shall not be binding upon any of the Parties unless such amendment is in writing and executed by all Parties. The provisions of this Agreement shall inure to the benefit of and be binding upon the Parties and their respective heirs, administrators, executors, personal representatives, successors, and assigns.

15. **Captions; Days.** Captions and section headings in this Agreement are provided for convenience only, and shall not be deemed to explain, modify, amplify, or aid in the interpretation, construction, or meaning of this Agreement. Whenever under the terms and provisions of this Agreement the time for performance falls upon a Saturday, Sunday, or Legal Holiday, such time for performance shall be extended to the next business day.

16. **Further Documentation.** The Parties agree that from time to time and following a request therefore by a Party, each Party shall properly execute and deliver to the other Party such other documents and instruments reasonably necessary to effectuate the obligations of each Party.

17. **Governing Law and Venue.** This Agreement shall be governed by and construed in accordance with the laws of the State of Florida, without giving effect to any choice of law rules thereof which may direct the application of laws of another jurisdiction. The venue for any mediation or judicial proceedings shall be in Orange County, Florida. The Parties voluntarily waive a trial by jury in any litigation or action arising from this Agreement.

18. **Time is of the Essence.** Time is hereby declared of the essence as to the lawful performance of all duties and obligations set forth in this Agreement.

19. **Survival of Provisions.** All covenants, representations, and warranties set forth in this Agreement shall survive the execution or delivery of any and all deeds and other documents at any time executed or delivered under, pursuant to or by reason of this Agreement, and shall survive the payment of all monies made under, pursuant to, or by reason of this Agreement.

20. **Severability.** If any part of this Agreement is found invalid or unenforceable by any court, such validity or unenforceability shall not affect the other parts of this Agreement if the rights and obligations of the Parties contained therein are not materially prejudiced and if the intentions of the Parties can continue to be effectuated. To that end, this Agreement is declared severable.

21. **Force Majeure.** The Parties shall be excused for the period of any delay in the performance of any obligation hereunder when prevented from so doing by cause or causes beyond the obligated party's reasonable control, which shall include, without limitation, civil commotion, civil disorder, riot, civil disturbance, war, war-like

operations, invasion, rebellion, hostilities, military or usurped power, sabotage, fire or other casualty, and inability to obtain any material or services due to Acts of God. For all monetary issues, there shall be no events of force majeure.

22. **Non-Appropriation.** In accordance with the Florida Constitution and other applicable state and local laws, including but not limited to Section 129.07, Florida Statutes, the obligations of the COUNTY in this Agreement are subject to sufficient budgeted COUNTY funds being available in each COUNTY budget year to achieve the purposes of this Agreement.

SIGNATURES TO FOLLOW

IN WITNESS WHEREOF, the Parties have caused this Agreement to be executed by their duly authorized representatives on the dates set forth below.

ORANGE COUNTY, FLORIDA
By: Board of County Commissioners

By: _____
Jerry L. Demings
Orange County Mayor

Date: _____

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

By: _____
Deputy Clerk

Print: _____

WITNESSES:

_____

Print Name: _____

_____

Print Name: _____

TOWN OF WINDERMERE
a municipal corporation existing under the laws of the State of Florida

By: _____

Print Name: _____

Title: _____

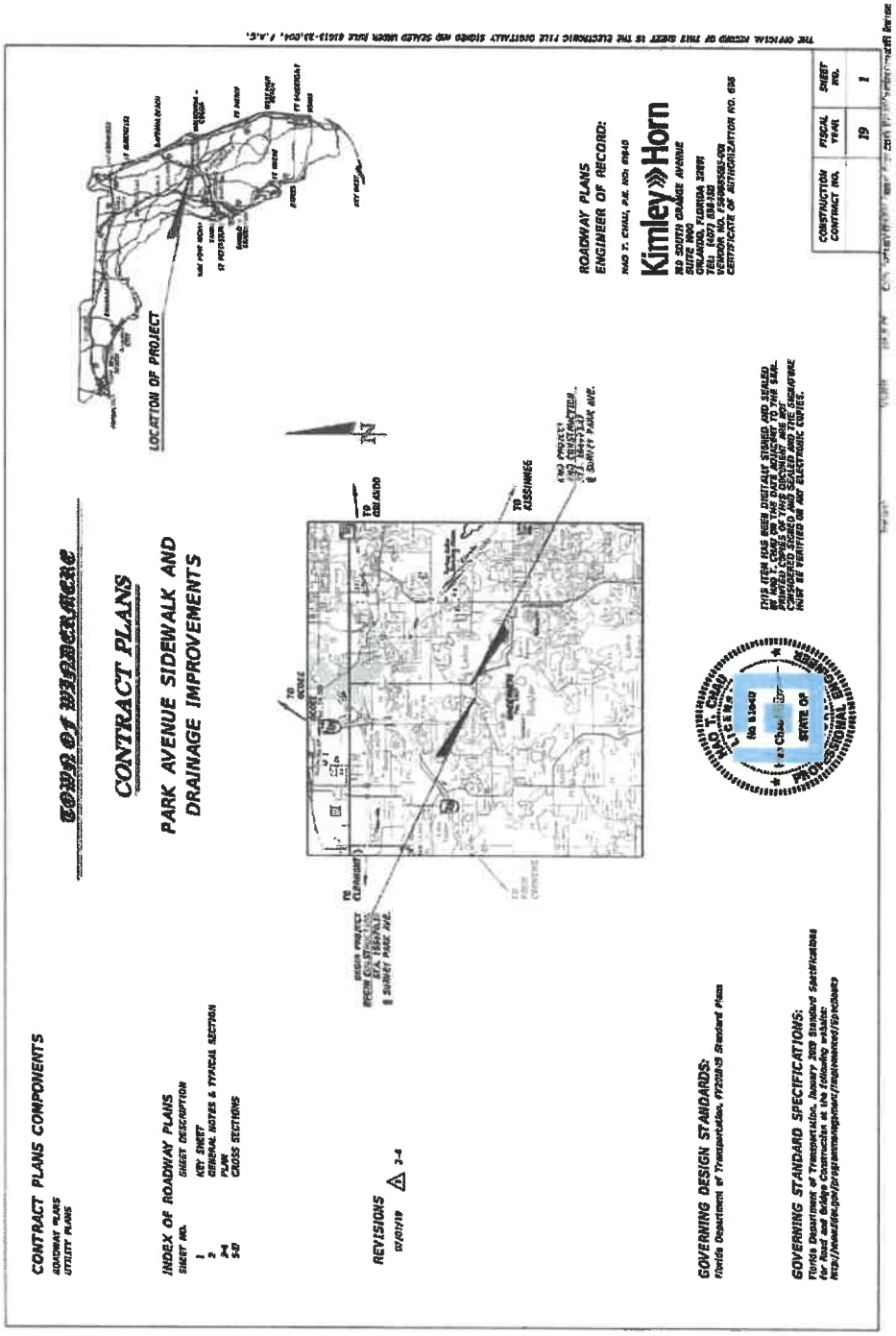
Date: _____

APPROVED AS TO FORM AND LEGALITY FOR EXECUTION BY A SIGNATORY OF THE TOWN OF WINDERMERE

By: _____

Date: _____

EXHIBIT "A"
PROJECT PLANS

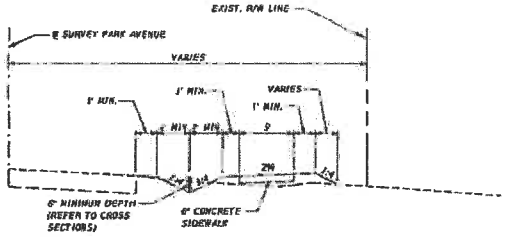


GENERAL NOTES:

1. EXISTING DRAINAGE STRUCTURES WITHIN CONSTRUCTION LIMITS SHALL REMAIN, UNLESS OTHERWISE NOTED. EXISTING DRAINAGE MUST BE MAINTAINED UNTIL NEW SYSTEM IS ACTIVATED.
2. ALL EXISTING UTILITIES WITHIN PROJECT LIMITS ARE TO REMAIN UNLESS OTHERWISE NOTED.
3. VERTICAL CONTROL FOR THIS PROJECT IS BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
4. THE LOCATIONS OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY.
5. THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS THROUGH SUNSHINE STATE ONE CALL OF FLORIDA (1-800-432-4770) AND THE UTILITY OWNERS LISTED BELOW A MINIMUM OF TWO BUSINESS DAYS (10 DAYS IF DIGGING UNDER WATER) IN ADVANCE OF BEGINNING CONSTRUCTION ON THE JOB SITE.

UTILITY AGENCY OWNER	TELEPHONE NUMBER	CONTACT PERSON
AT&T	770-918-5424	NANCY SPENCE
BRIGHTHOUSE-CHARTER COMMUNICATION	407-533-8209	MARVIN NEW JR.
DUKE ENERGY	727-893-8304	MEGAN VONSTETINA
LAKE APOPKA NATURAL GAS DISTRICT	407-656-2734	ANTONIA GIBSON
ORANGE COUNTY UTILITIES	407-254-9764	DAVID SIGNEITE
ORANGE COUNTY PUBLIC WORKS	407-836-7804	ROGER SMITH
ORLANDO TELEPHONE COMPANY INC.	407-996-8900	AARON PICKLE
ORLANDO UTILITIES COMMISSION	407-434-2569	NOH HAWKINS
TOWER CLOUD INC.	813-417-2184	JONATHAN RAY
CENTURY LINK	407-814-5293	TY LESLIE
SUMMIT BROADBAND	727-235-4363	ROBERT SMITH

6. CONTRACTOR SHALL ADJUST ALL UTILITY LIDS AND COVERS TO FINISHED GRADE AS REQUIRED.
7. PRIOR TO COMMENCEMENT OF ANY EXCAVATION , THE CONTRACTOR SHALL COMPLY WITH FLORIDA STATUTE 553.851 FOR THE PROTECTION OF UNDERGROUND GAS PIPELINES.
8. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES THAT ARE TO REMAIN IN PLACE.
9. THE CONTRACTOR WILL RESTORE ALL AREAS DISTURBED BY THIS CONSTRUCTION TO A CONDITION EQUAL TO OR BETTER THAN THE CONDITION EXISTING PRIOR TO CONSTRUCTION. ALL DISTURBED AREAS TO BE SODDED.
10. THE CONTRACTOR SHALL FURNISH THE ENGINEER, PRIOR TO INCORPORATION INTO THE PROJECT, A CERTIFICATION FROM THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES DIVISION OF PLANT INDUSTRY, STATING THAT THE SOD, STRAW AND MULCH MATERIALS ARE FREE OF NOXIOUS WEEDS, INCLUDING TROPICAL SODA APPLE.
11. ALL SYNTHETIC BALES, ROCK BAGS AND SILT FENCE SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT.
12. THE CONTRACTOR SHALL DEVELOP AND SUBMIT AN EROSION PLAN FOR THE PREVENTION, CONTROL, ABATEMENT OF EROSION, SEDIMENTATION, AND WATER POLLUTION TO THE TOWN FOR APPROVAL. EROSION CONTROL ITEMS ARE TO BE USED AT THE LOCATIONS DESCRIBED IN THE CONTRACTORS APPROVED EROSION CONTROL PLAN TO COMPLY WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.
13. THE CONTRACTOR IS TO MAINTAIN AND KEEP STREET NAME IDENTIFICATION VISIBLE DURING CONSTRUCTION OPERATIONS, IN ORDER TO FACILITATE EMERGENCY VEHICLE TRAFFIC. PLACEMENT OF BUSINESS ENTRANCE SIGNS AND CHANNELIZING DEVICES ARE TO BE IN ACCORDANCE WITH INDEX 102-660.
14. STAGING AND MATERIAL STORAGE SHALL NOT BE CONDUCTED ON ADJOINING PRIVATE PROPERTY WITHOUT WRITTEN APPROVAL FROM THE OWNER.
15. THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL RESIDENCES AND BUSINESSES DURING THE ENTIRE CONSTRUCTION PERIOD.
16. MATCH SOD TYPES TO ADJACENT PROPERTIES, IF NO PARTICULAR TYPE IS EVIDENT THEN SAINT AUGUSTINE SHALL BE USED.
17. ALL STATIONS AND OFFSETS ARE REFERENCED TO ℄ OF SURVEY.
18. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED. THE CONTRACTOR SHALL NOTIFY THE TOWN SURVEYOR, WITHOUT DELAY, BY TELEPHONE.
19. CONTRACTOR SHALL DE-SILT EXISTING CROSS DRAIN
20. ALL CROSS DRAINS AND STORM PIPE SHALL BE CLASS III REINFORCED CONCRETE PIPE.
21. CONTRACTOR SHALL REMOVE EXISTING SIDEWALK WITHIN PROPOSED SIDEWALK LIMITS.
22. DETECTABLE WARNING TRUNCATED DOMES SHALL BE WET SET, CAST IN PLACE WITH CONCRETE.
23. FURNISH AND INSTALL UTILITY MAIN COST PER LINEAR FOOT INCLUDES ALL PIPE MATERIALS AND INSTALLATION COSTS, INCLUDING BUT NOT LIMITED TO DEWATERING, EXCAVATION, BACKFILL, COMPACTION, RESTORATION AND TESTING.



TYPICAL SECTION

STA. 155+70.18 TO STA. 164+23.41

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

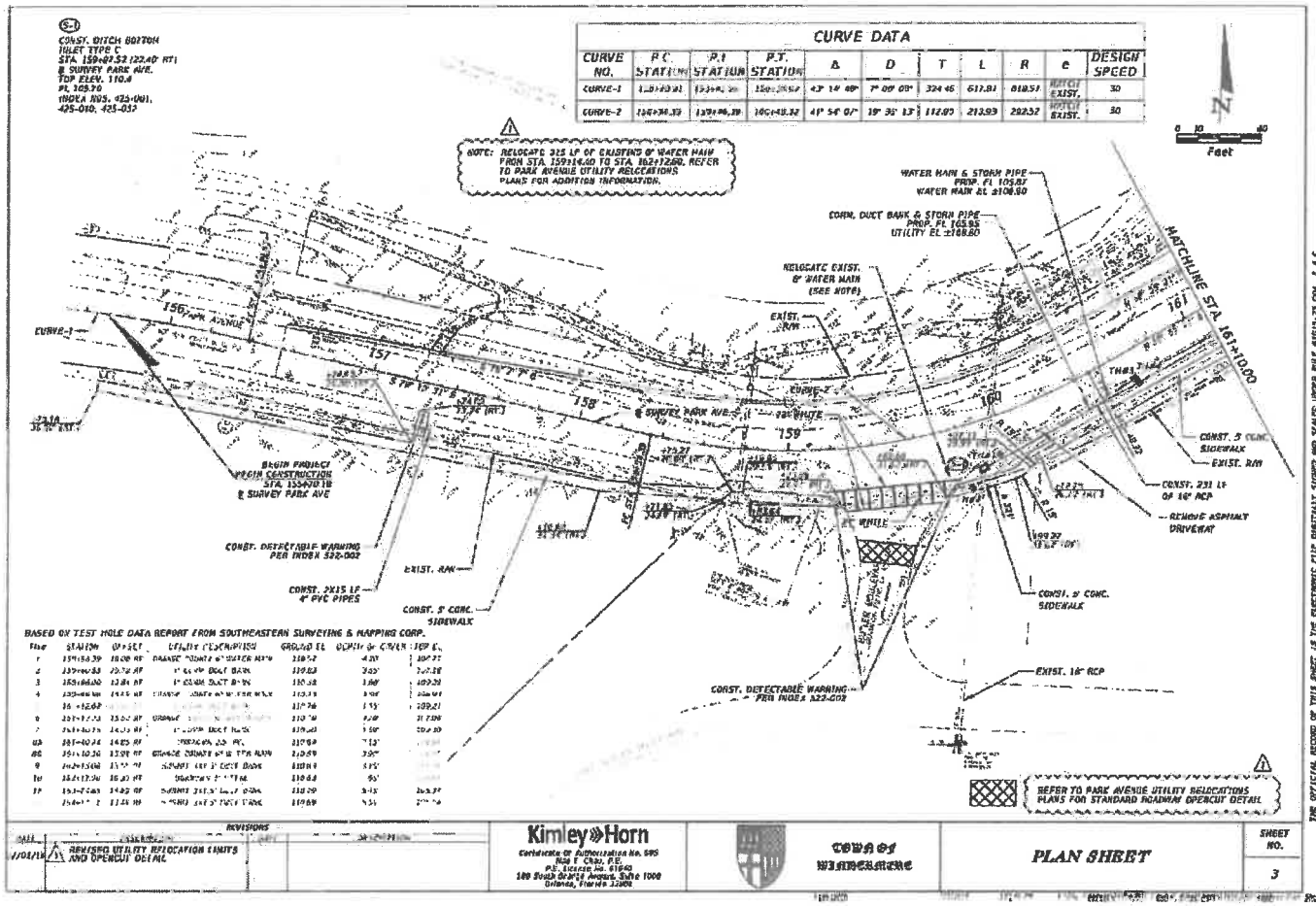
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

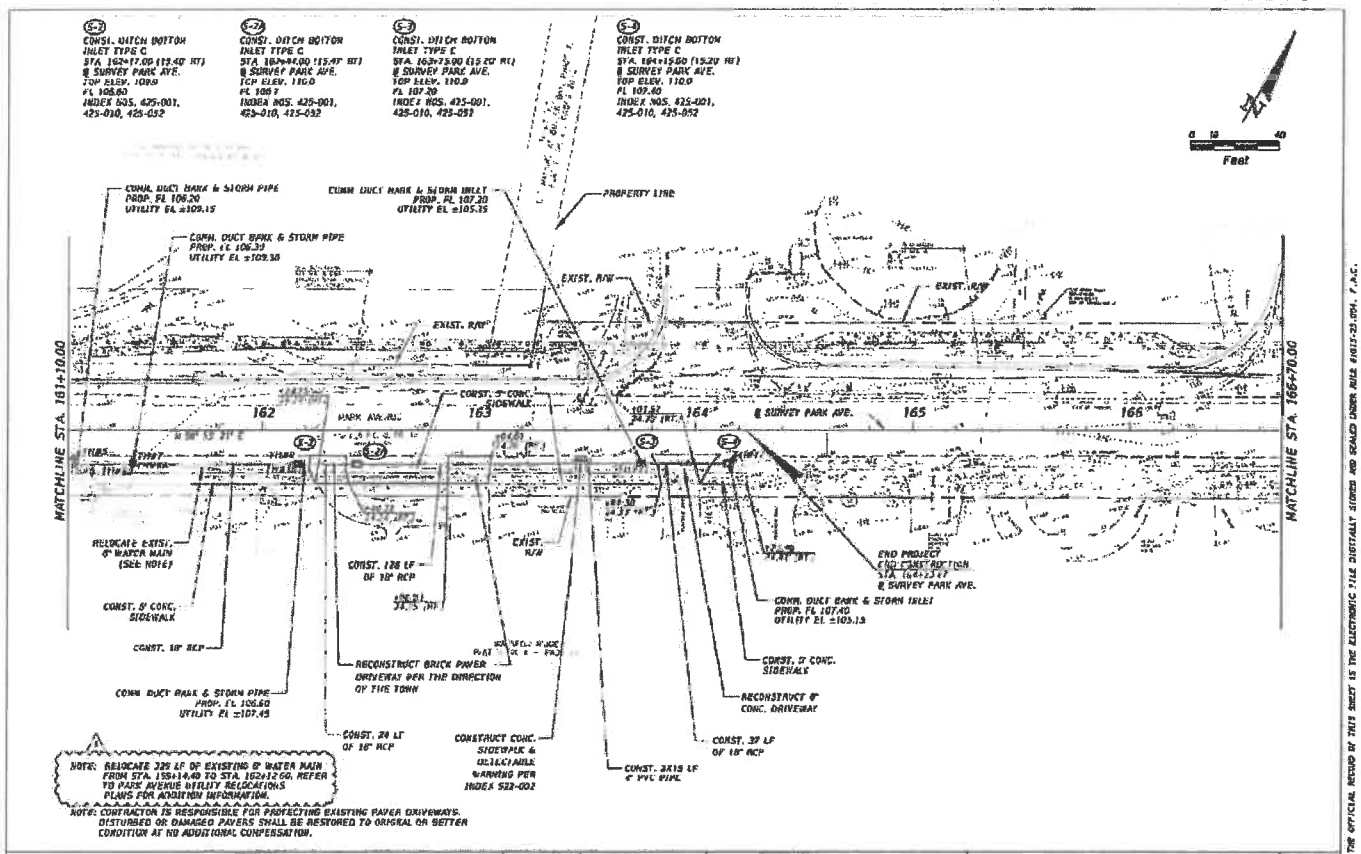
Kimley»Horn
Certificate of Authorization No. 696
Eric T. Chou, P.E.
P.E. License No. 81845
189 South Orange Avenue, Suite 1000
Orlando, Florida 32801

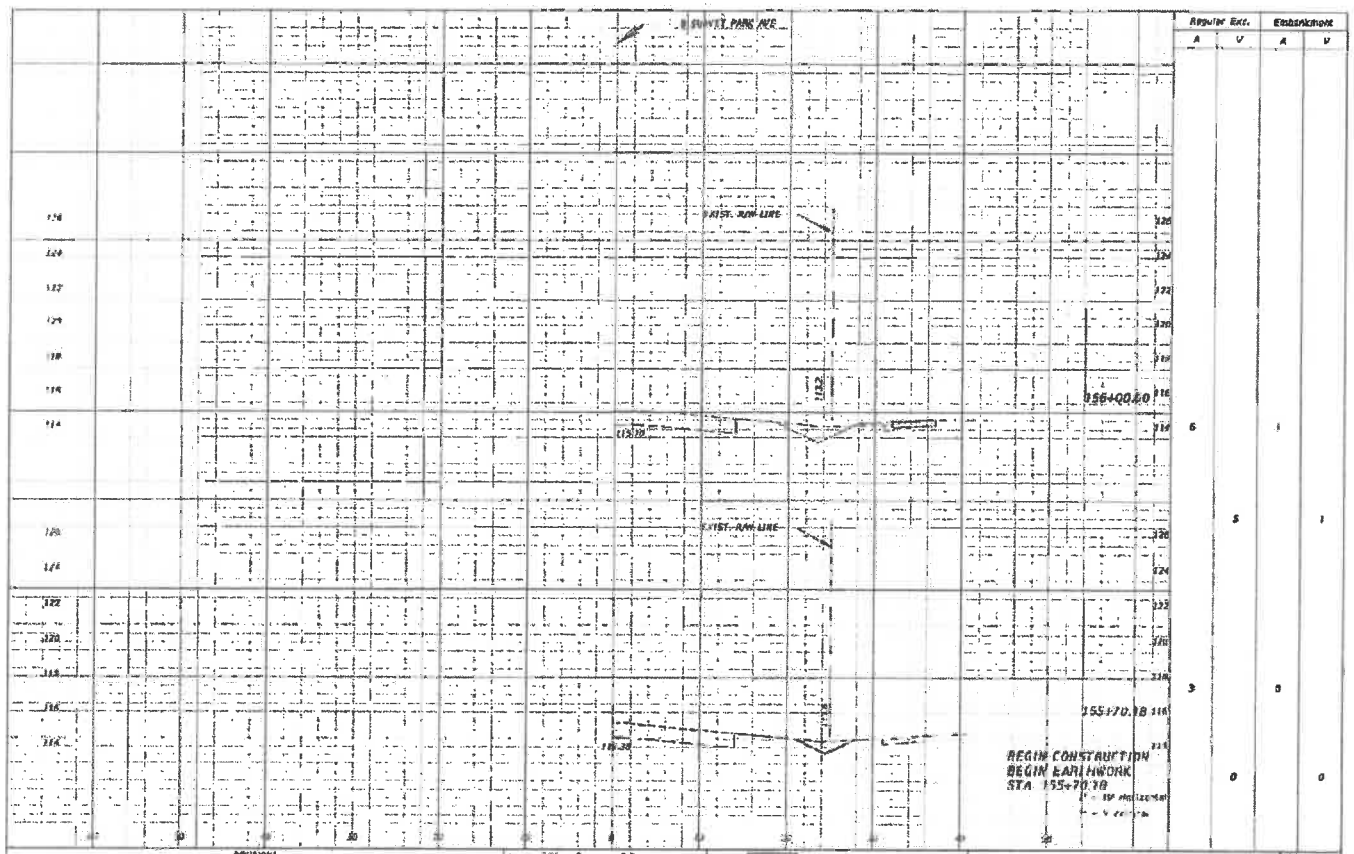
TOWN OF WINDERMERE

GENERAL NOTES & TYPICAL SECTION

SHEET NO. 2


CONST. DITCH BOTTOM INLET TYPE C STA. 159+07.52 (22.40' RT) @ SURVEY PARK AVE. TOP ELEV. 110.4 PL 109.70 INDEX NOS. 425-001, 425-010, 425-037
CURVE DATA
CURVE NO. | P.C. STATION | P.I. STATION | P.T. STATION | Δ | D | T | L | R | e | DESIGN SPEED
CURVE-1 | 43° 14' 48" | 7° 00' 00" | 324.46 | 617.81 | 818.51 | 30
CURVE-2 | 41° 54' 07" | 19° 35' 13" | 112.05 | 213.93 | 292.52 | 30
NOTE: RELOCATE 315 LF OF EXISTING 8" WATER MAIN FROM STA. 159+14.40 TO STA. 162+12.60. REFER TO PARK AVENUE UTILITY RELOCATIONS PLANS FOR ADDITION INFORMATION.
0 10 20 Feet
WATER MAIN & STORM PIPE PROP. FL 105.87 WATER MAIN EL ±108.50
CONN. DUCT BANK & STORM PIPE PROP. FL 105.93 UTILITY EL ±108.80
RELOCATE EXIST. 8" WATER MAIN (SEE NOTE)
EXIST. RW
MATCHLINE STA. 161+10.00
CURVE-1
CURVE-2
PARK AVENUE
@ SURVEY PARK AVE.
BEGIN PROJECT BEGIN CONSTRUCTION STA. 155+70.18 @ SURVEY PARK AVE
CONST. DETECTABLE WARNING PER INDEX 522-002
CONST. 2X15 LF 4" PVC PIPES
EXIST. RW
CONST. 5' CONC. SIDEWALK
CONST. 5' CONC. SIDEWALK
EXIST. RW
CONST. 231 LF OF 18" RCP
REMOVE ASPHALT DRIVEWAY
CONST. 5' CONC. SIDEWALK
EXIST. 18" RCP
CONST. DETECTABLE WARNING PER INDEX 522-002
BASED ON TEST HOLE DATA REPORT FROM SOUTHEASTERN SURVEYING & MAPPING CORP.
REFER TO PARK AVENUE UTILITY RELOCATIONS PLANS FOR STANDARD ROADWAY OPENCUT DETAIL
REVISIONS
REVISED UTILITY RELOCATION LIMITS AND OPENCUT DETAIL
Kimley»Horn
Certificate of Authorization No. 696
Rick T. Chai, P.E.
P.E. License No. 61643
189 South Orange Avenue, Suite 1000
Orlando, Florida 32801
TOWN OF WINTERGARDEN
PLAN SHEET
SHEET NO. 3
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.


CONST. DITCH BOTTOM INLET TYPE C STA. 162+17.00 (13.40' RT) ℄ SURVEY PARK AVE. TOP ELEV. 109.0 FL 108.60 INDEX NOS. 425-001, 425-010, 425-052
CONST. DITCH BOTTOM INLET TYPE C STA. 163+94.00 (15.47' RT) ℄ SURVEY PARK AVE. TOP ELEV. 110.0 FL 109.7 INDEX NOS. 425-001, 425-010, 425-052
CONST. DITCH BOTTOM INLET TYPE C STA. 163+75.00 (15.20' RT) ℄ SURVEY PARK AVE. TOP ELEV. 110.0 FL 107.20 INDEX NOS. 425-001, 425-010, 425-052
CONST. DITCH BOTTOM INLET TYPE C STA. 164+15.00 (15.20' RT) ℄ SURVEY PARK AVE. TOP ELEV. 110.0 FL 107.40 INDEX NOS. 425-001, 425-010, 425-052
0 10 40
Feet
COMM. DUCT BANK & STORM PIPE PROP. FL 106.20 UTILITY EL ±109.15
COMM. DUCT BANK & STORM PIPE PROP. FL 106.30 UTILITY EL ±109.30
COMM. DUCT BANK & STORM INLET PROP. FL 107.20 UTILITY EL ±105.35
PROPERTY LINE
EXIST. R/W
EXIST. R/W
EXIST. R/W
MATCHLINE STA. 161+10.00
MATCHLINE STA. 166+70.00
162
PARK AVE. R.O.W.
163
CONST. 5' CONC. SIDEWALK
164
℄ SURVEY PARK AVE.
165
166
RELOCATE EXIST. 6" WATER MAIN (SEE NOTE)
CONST. 5' CONC. SIDEWALK
CONST. 18" RCP
CONST. 126 LF OF 18" RCP
EXIST. R/W
END PROJECT (EOC CONST. BOTTOM STA. 166+23.77) ℄ SURVEY PARK AVE.
COMM. DUCT BANK & STORM INLET PROP. FL 107.40 UTILITY EL ±105.15
CONST. 5' CONC. SIDEWALK
RECONSTRUCT 6" CONC. DRIVEWAY
RECONSTRUCT BRICK PAVER DRIVEWAY PER THE DIRECTION OF THE TOWN
COMM. DUCT BANK & STORM PIPE PROP. FL 106.60 UTILITY EL ±107.45
CONST. 24 LF OF 18" RCP
CONSTRUCT CONC. SIDEWALK & DETECTABLE WARNING PER INDEX 522-002
CONST. 37 LF OF 18" RCP
CONST. 3X15 LF 6" PVC PIPE
NOTE: RELOCATE 325 LF OF EXISTING 6" WATER MAIN FROM STA. 159+14.40 TO STA. 162+12.00. REFER TO PARK AVENUE UTILITY RELOCATIONS PLANS FOR ADDITION INFORMATION.
NOTE: CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING PAVER DRIVEWAYS. DISTURBED OR DAMAGED PAVERS SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION AT NO ADDITIONAL COMPENSATION.
REVISIONS
REVISED UTILITY RELOCATION LIMITS
Kimley»Horn
TOWN OF WINDERMERE
PLAN SHEET
SHEET NO.
4



REVISIONS

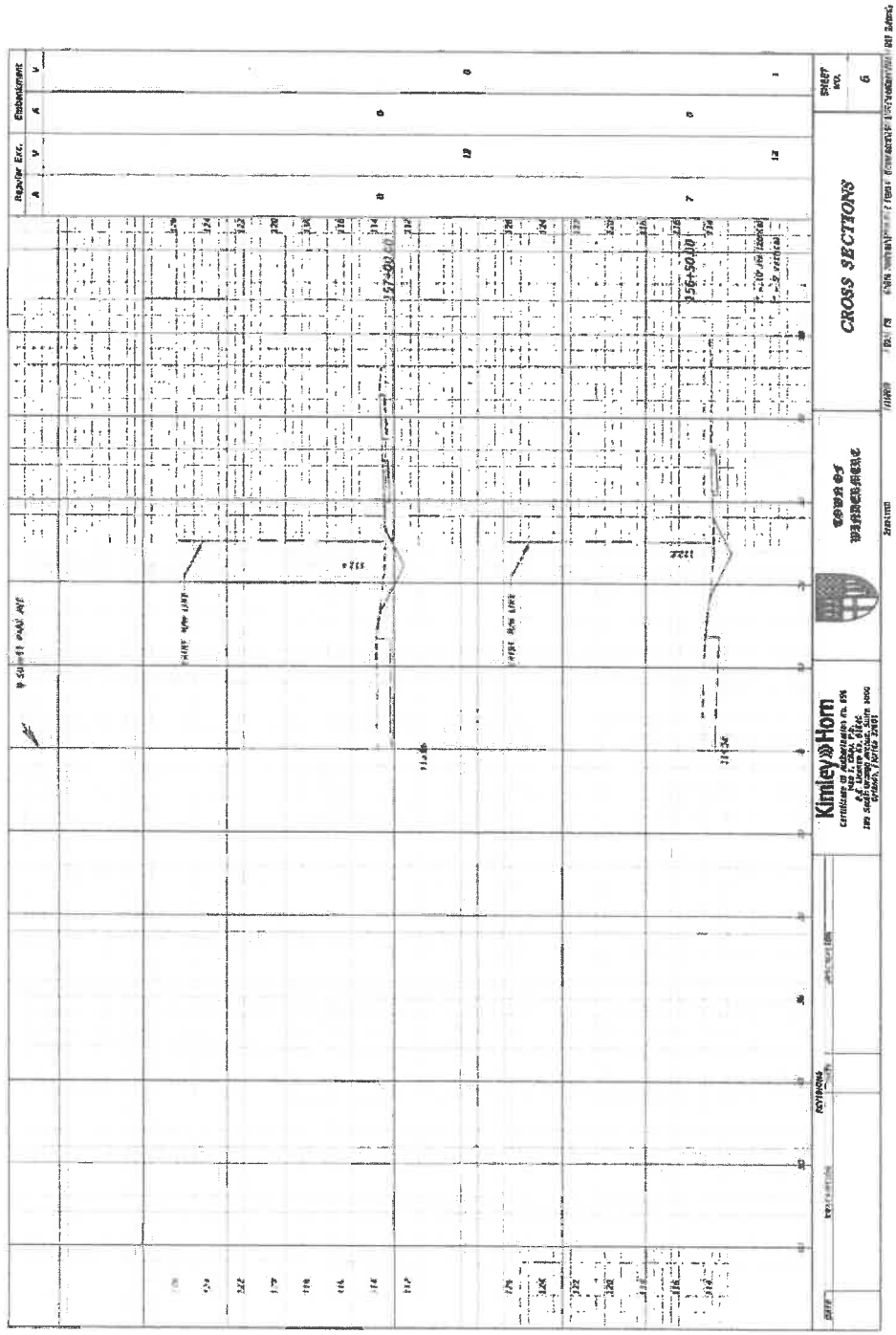
DATE		BY	DESCRIPTION

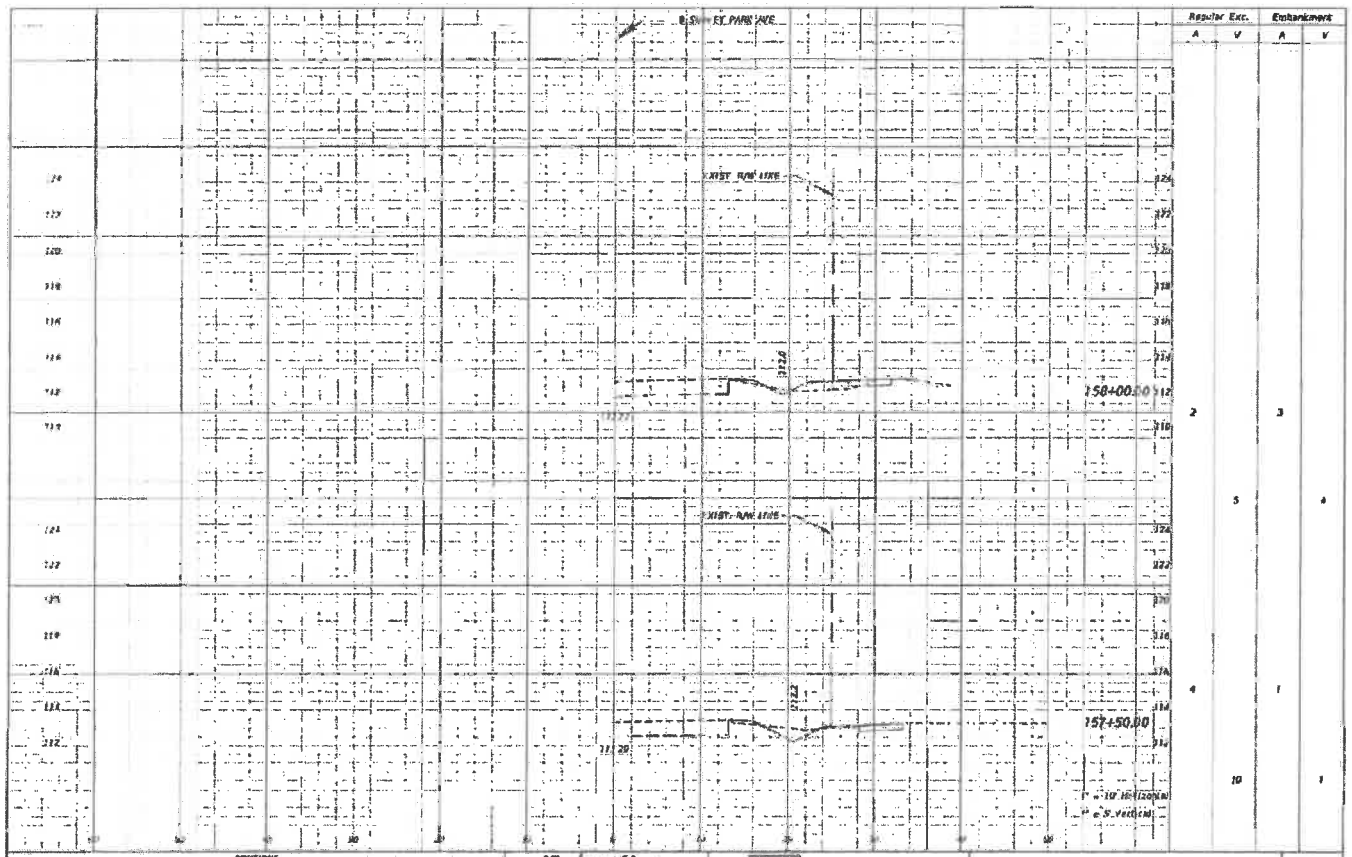
Kimley»Horn
Certificate Of Authorization No. 696
1400 E. China St.
P.E. License No. 6946
189 South Orange Avenue, Suite 3000
Orlando, Florida 32801

TOWN OF WINDERMERE

CROSS SECTIONS

SHEET NO.
2


Kimley»Horn
CROSS SECTIONS
SHEET NO.
6



REVISIONS

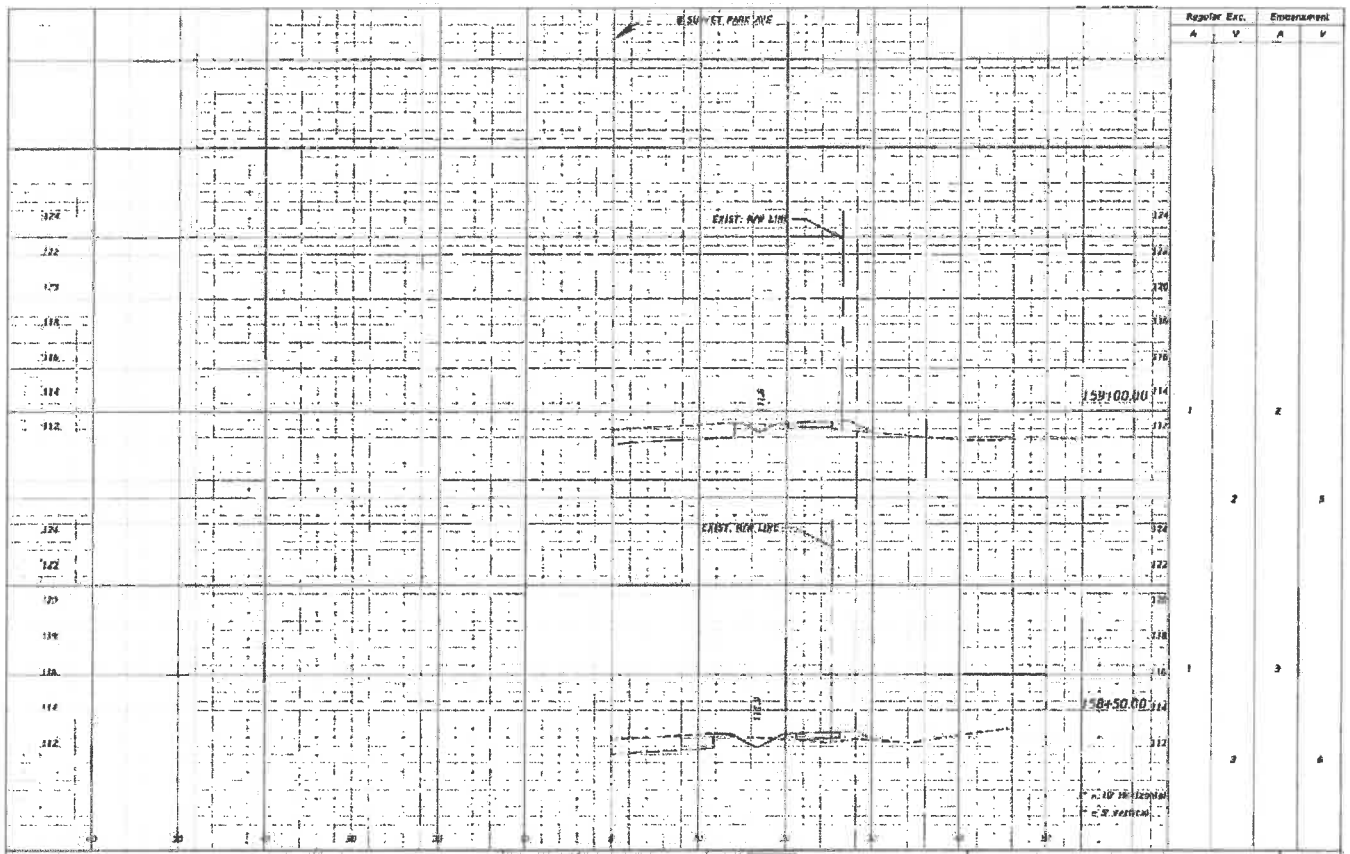
DATE	DESCRIPTION	BY	DESCRIPTION

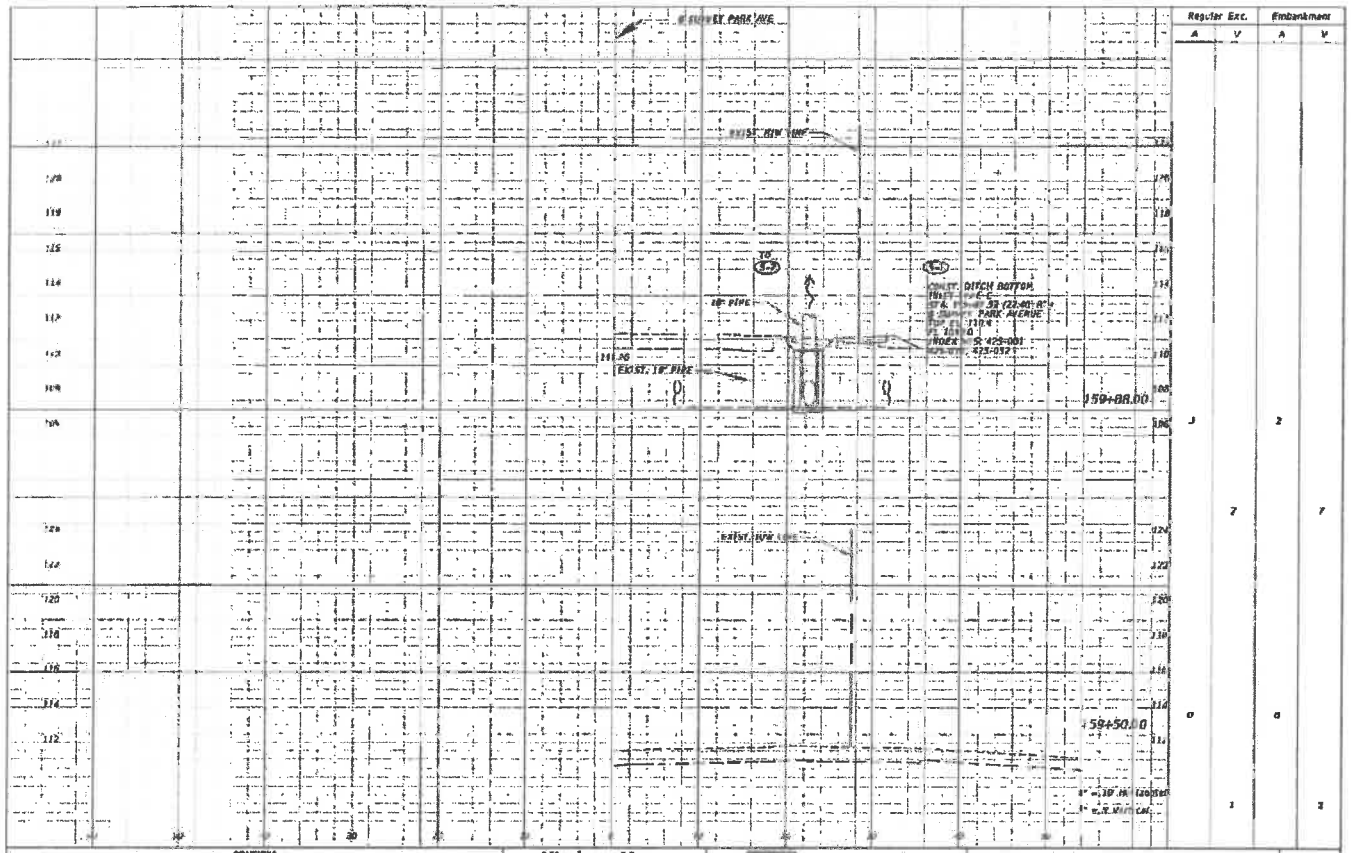
Kimley»Horn
Certificate of Authorization No. 696
1409 E. Lake Rd.
P.E. License No. 6168
189 South Orange Avenue, Suite 1050
Orlando, Florida 32801

TOWN OF WINTERGARDEN

CROSS SECTIONS

SHEET NO.
7


EXIST. R/W LINE
159+00.00
EXIST. R/W LINE
158+50.00
Regular Exc.
Embankment
A
V
A
V
1
2
2
5
1
3
3
6
REVISIONS
DATE
DESCRIPTION
Kimley»Horn
Certificate of Authorization No. 606
TOWN OF
WEATHERFORD
CROSS SECTIONS
SHEET NO.
8



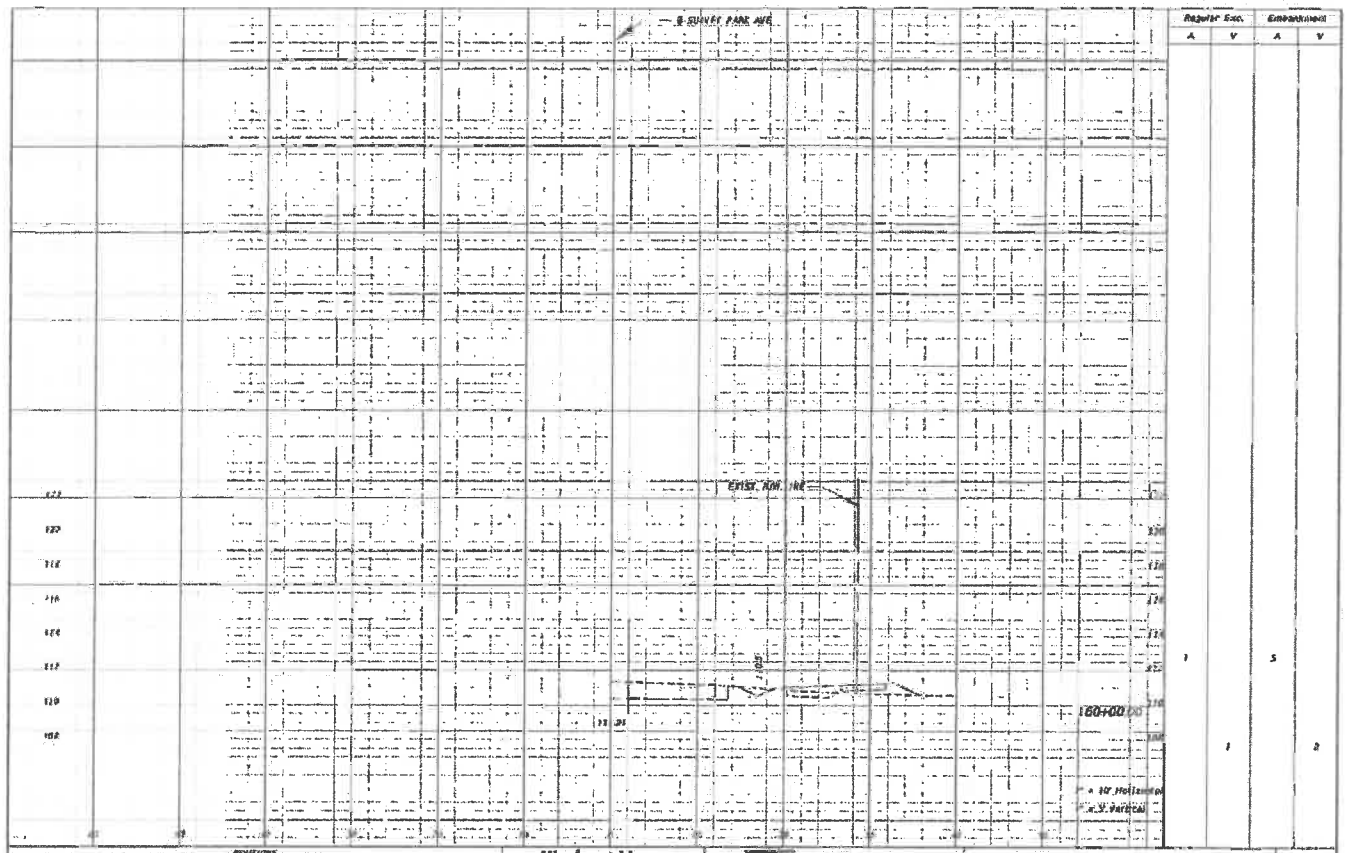
DATE	REVISIONS	DATE	REVISIONS

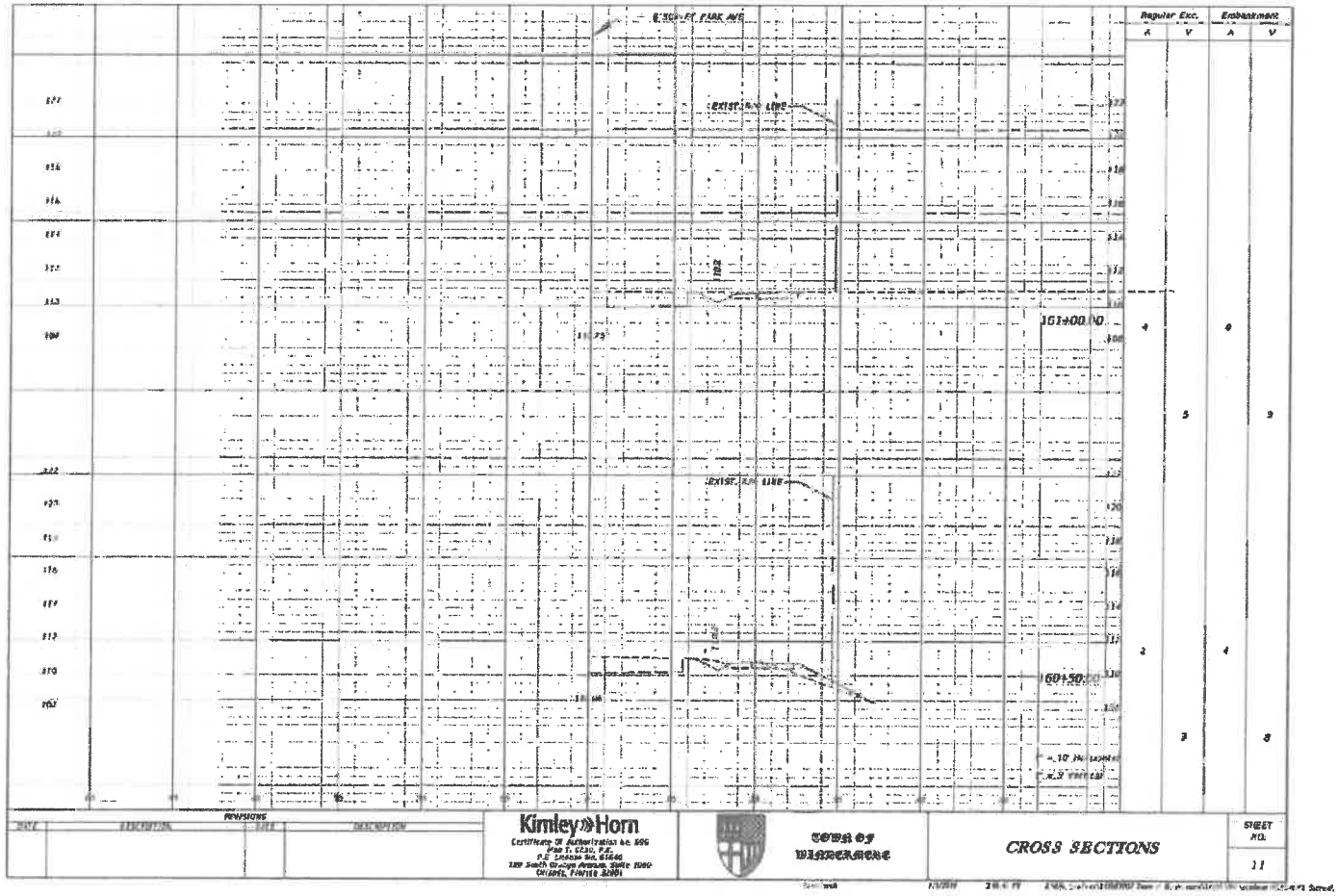
Kimley»Horn
Certificate of Authorization No. 896
John T. Chase P.E.
P.E. License No. 67642
189 South Orange Avenue, Suite 1000
Orlando, Florida 32801

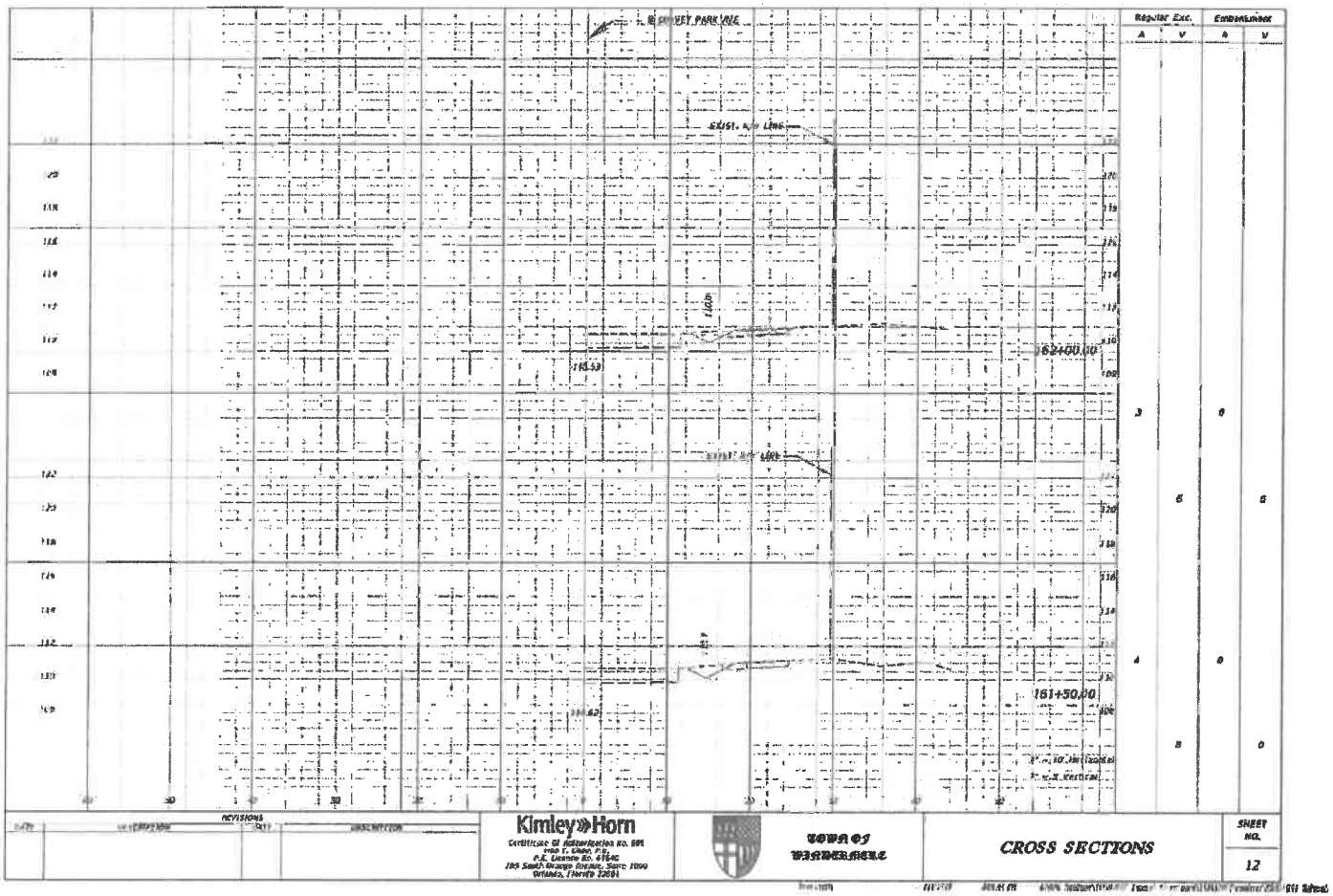
TOWN OF WINTER GARDEN

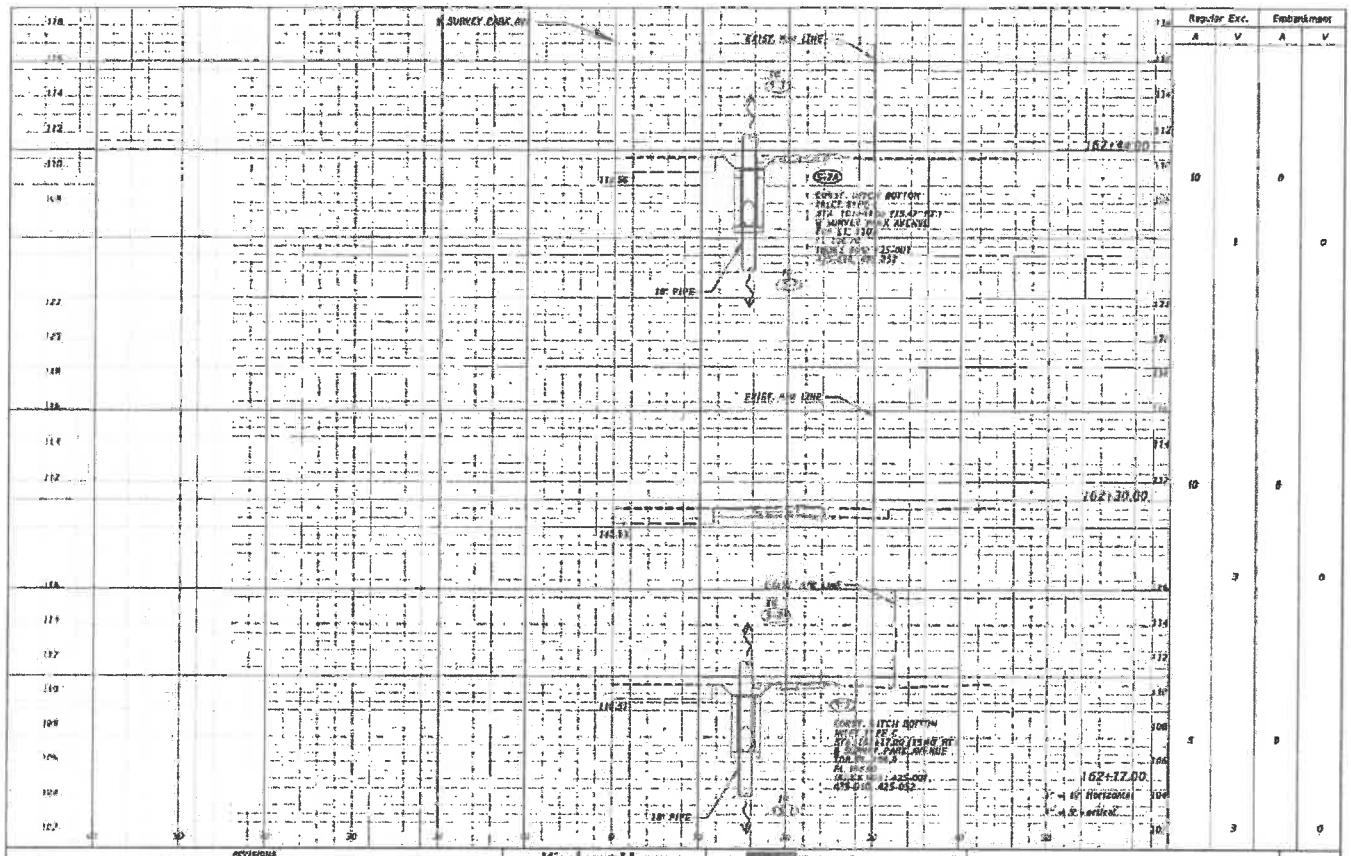
CROSS SECTIONS

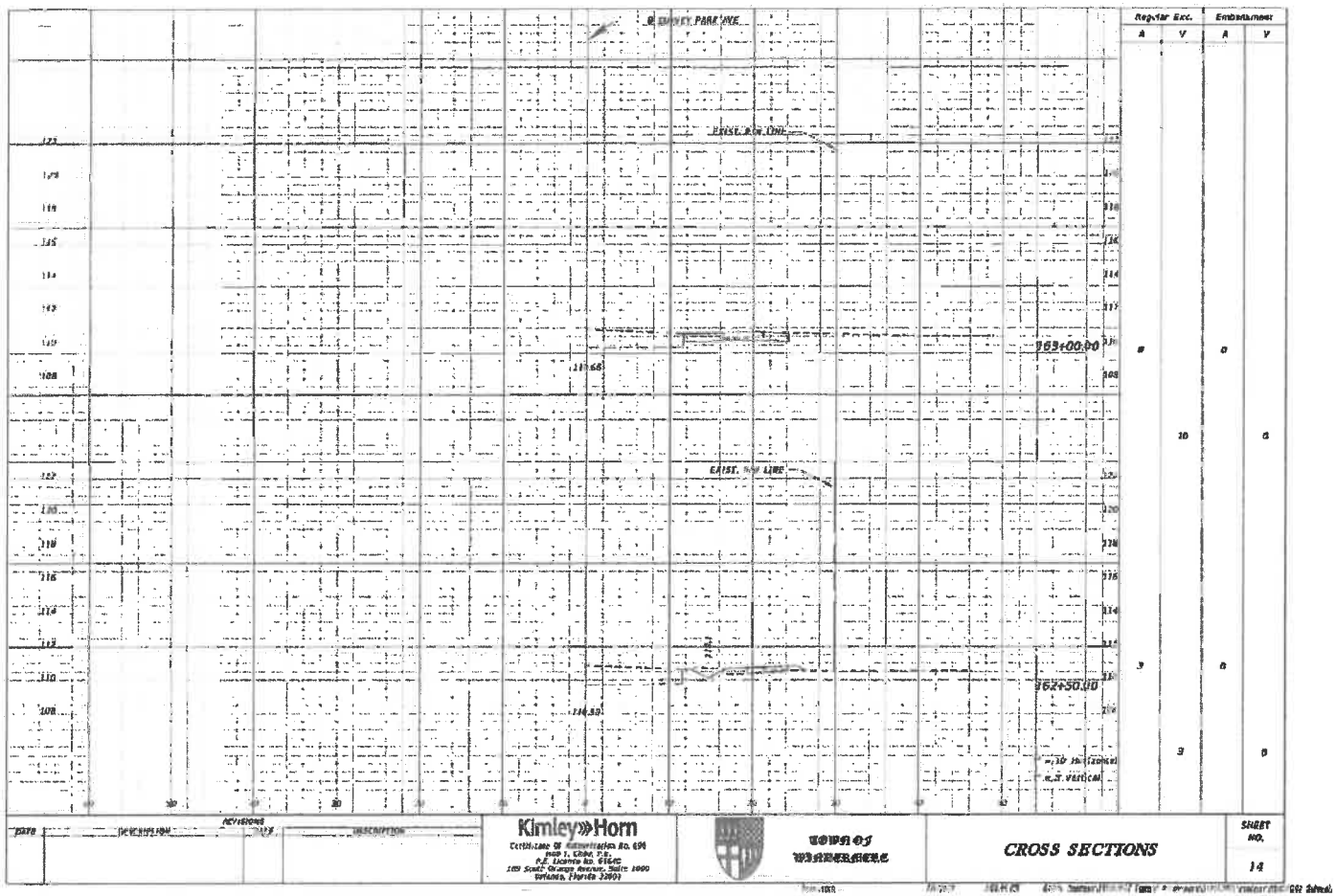
SHEET NO. 9

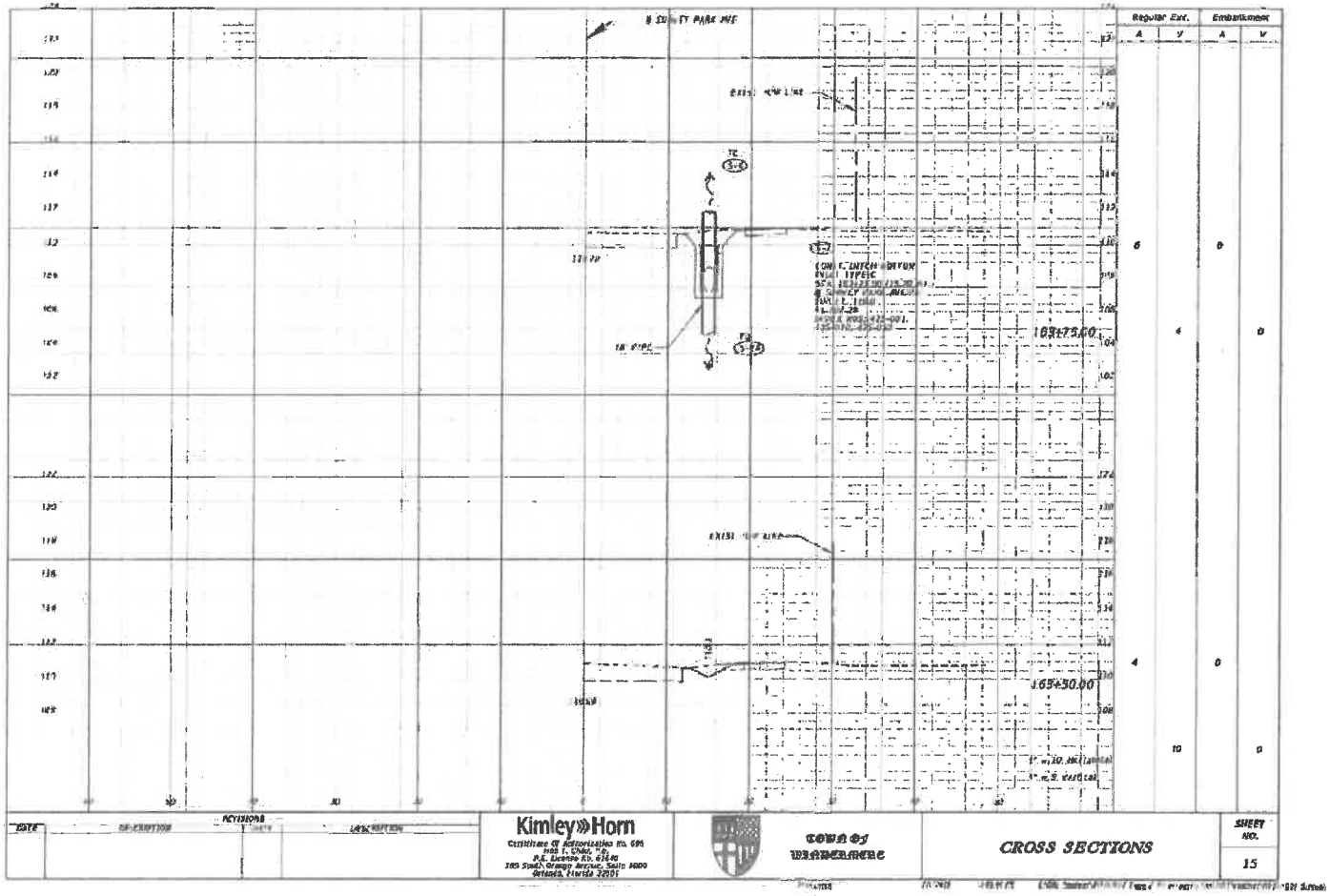

S SUNVET PARK AVE
EXIST. ROW. LINE
160+00.00
Regular Exc.
Embankment
A
V
A
V
1
5
1
2
REVISIONS
DATE
DESCRIPTION
DATE
DESCRIPTION
Kimley»Horn
Certificate of Authorization No. 5196
Phd 7, Ch.Eng, P.E.
P.E. License No. 61648
189 South Orange Avenue, Suite 1000
Orlando, Florida 32801
TOWN OF WINTERHAVEN
CROSS SECTIONS
SHEET NO.
10

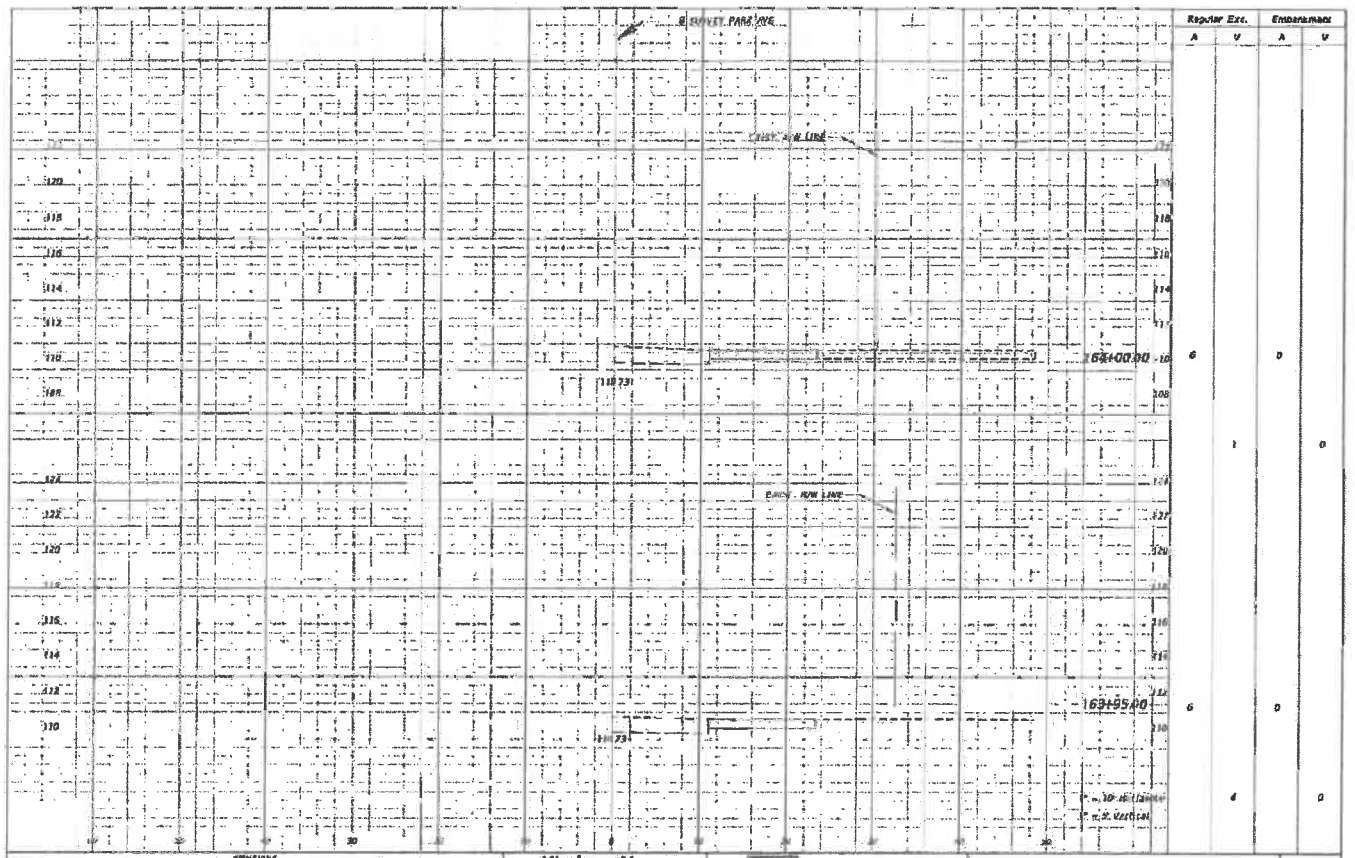

EXIST. R/W LINE
161+00.00
160+50
Regular Exc.
Embankment
A
V
A
V
4
4
5
3
2
4
3
3
REVISIONS
DATE
DESCRIPTION
DATE
DESCRIPTION
Kimley»Horn
TOWN OF
WINDERMERE
CROSS SECTIONS
SHEET NO.
11


Regular Exc.
Embankment
A
V
A
V
EXIST. R/W LINE
162+00.00
161+50.00
3
6
4
8
6
8
8
0
REVISIONS
DESCRIPTION
Kimley»Horn
Certificate Of Authorization No. 891
Jack T. Shaw, P.E.
P.E. License No. 41546
185 South Orange Avenue, Suite 1000
Orlando, Florida 32801
TOWN OF WINTER GARDEN
CROSS SECTIONS
SHEET NO.
12


Regular Exc.
Embankment
A
V
A
V
10
0
1
0
10
6
3
0
5
9
3
0
1621+30.00
1621+17.00
18" PIPE
18" PIPE
EXIST. R/W LINE
EXIST. R/W LINE
SURVEY CONT. R/W
RAISE R/W LINE
CONT. R/W LINE
Kimley»Horn
Certificate of Authorization No. 696
P.E. License No. 6846
Orlando, Florida 32801
Town of
WINDERMERE
CROSS SECTIONS
SHEET NO.
13
REVISIONS


Regular Exc.
Embankment
A
V
A
V
EXIST. R/W LINE
963+00.00
EXIST. R/W LINE
962+50.00
DATE
REVISIONS
DESCRIPTION
Kimley»Horn
TOWN OF WINDERMERE
CROSS SECTIONS
SHEET NO.
14


Regular Exc.
Embankment
A
V
A
V
EXIST. R/W LINE
TE
TE
18" PIPE
103+75.00
EXIST. TOP BANK
165+50.00
REVISIONS
DATE
DESCRIPTION
Kimley»Horn
Town of Windermere
CROSS SECTIONS
SHEET NO.
15



REVISIONS

Kimley»Horn
Certificate of Authorization No. 696
John T. Chen, P.E.
P.E. License No. 61642
105 South Orange Avenue, Suite 1800
Orlando, Florida 32801

TOWN OF WINDERMERE

CROSS SECTIONS

SHEET NO. 16

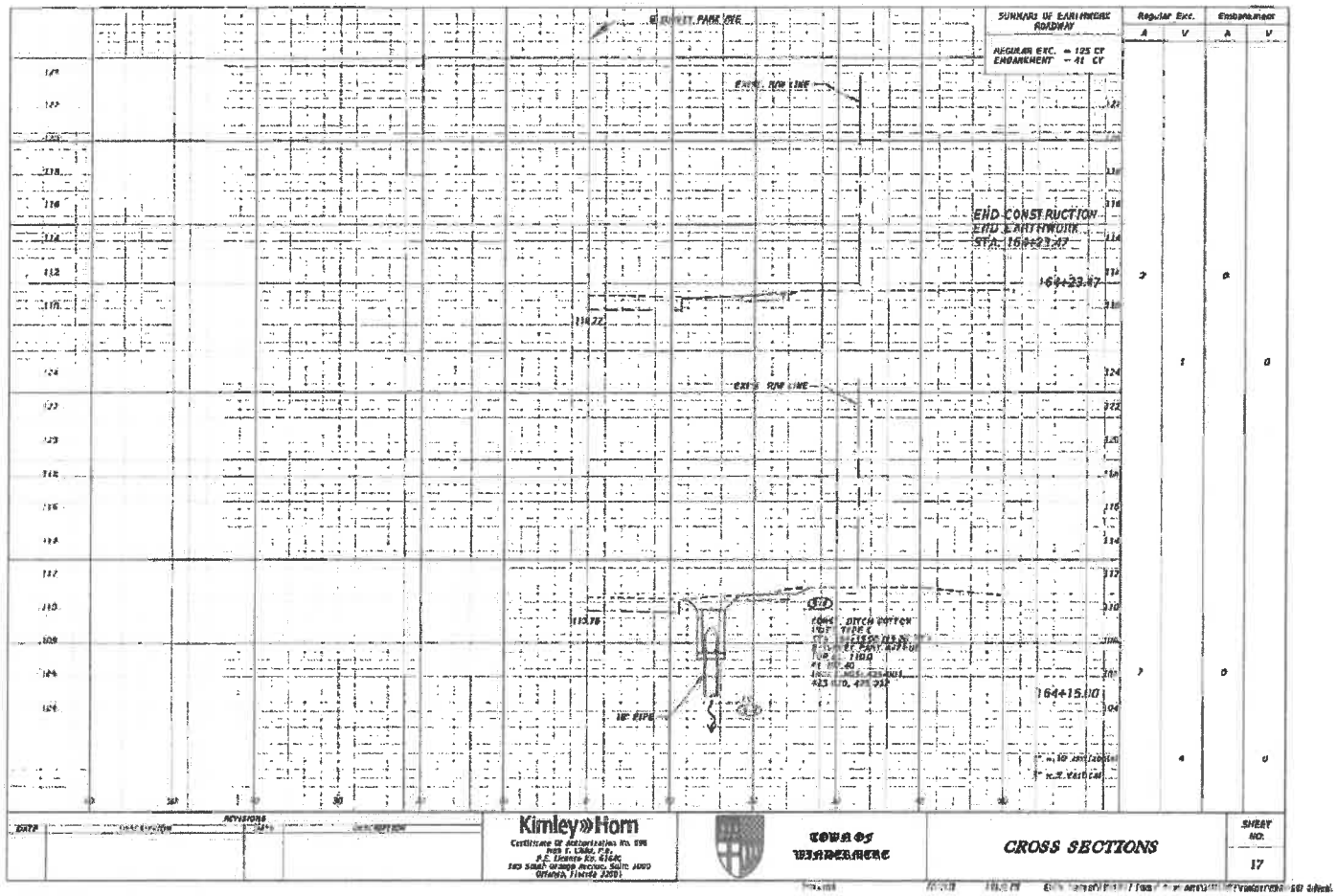
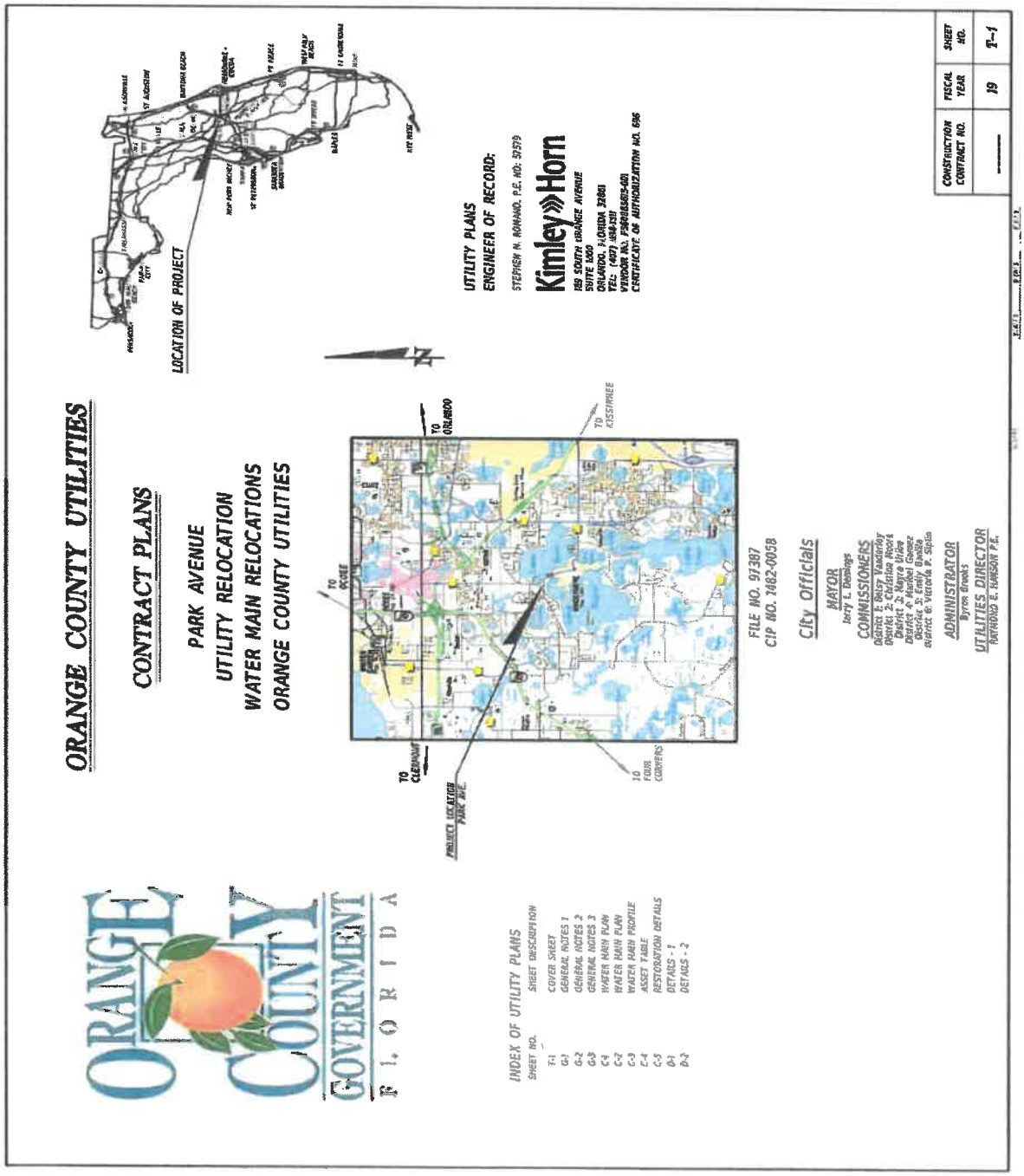

SUMMARY OF EARTHWORK
ROADWAY
REGULAR EXC. = 125 CY
EMBANKMENT = 41 CY
Regular Exc.
Embankment
A
V
A
V
EXIST. R/W LINE
END CONSTRUCTION
END EARTHWORK
STA. 164+23.47
164+23.47
114.72
EXIST. R/W LINE
113.78
164+15.10
18" PIPE
Kimley»Horn
TOWN OF
WINDERMERE
CROSS SECTIONS
SHEET
NO.
17

EXHIBIT "B"
UTILITIES PLANS



GENERAL NOTE: THE MATERIALS, PRODUCTS AND CONSTRUCTION OF WATER MAINS CONNECTING TO ORANGE COUNTY UTILITIES SYSTEM SHALL BE IN CONFORMANCE WITH THE CURRENT ORANGE COUNTY UTILITIES STANDARDS AND CONSTRUCTION SPECIFICATION MANUAL AND APPENDIX D OF SAID DOCUMENT. THE MANUAL IS LOCATED AT: ftp://ftp.ocfl.net/divisions/Utilities/pub/PlanReview/ManualOfStandardsAndSpecs/Manual_Approved2011/Orange%20County%20Utilities%20Standards%20and%20Construction%20Specifications%20Manual.pdf

MEASUREMENT AND PAYMENT

1.01 DESCRIPTION

A. PAYMENT FOR ALL WORK DONE SHALL BE INCLUSIVE OF FURNISHING ALL MANPOWER, EQUIPMENT, MATERIALS, AND PERFORMANCE OF ALL OPERATIONS RELATIVE TO CONSTRUCTION OF THIS PROJECT, WILL BE MADE UNDER PAY ITEMS LISTED HEREIN. WORK FOR WHICH THERE IS NOT A PAY ITEM WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

B. THE OWNER RESERVES THE RIGHT TO ALTER THE DRAWINGS, MODIFY INCIDENTAL WORK AS MAY BE NECESSARY, AND INCREASE OR DECREASE QUANTITIES OF WORK TO BE PERFORMED TO ACCORD WITH SUCH CHANGES, INCLUDING DEDUCTION OR CANCELLATION OF ANY ONE OR MORE OF THE PAY ITEMS. CHANGES IN THE WORK SHALL NOT BE CONSIDERED AS A WAIVER OF ANY CONDITIONS OF THE CONTRACT NOR INVALIDATE ANY PROVISIONS THEREOF. WHEN CHANGES RESULT IN CHANGES IN QUANTITIES OF WORK TO BE PERFORMED, THE CONTRACTOR WILL ACCEPT PAYMENT ACCORDING TO CONTRACT UNIT PRICES THAT APPEAR IN THE ORIGINAL CONTRACT. A SUPPLEMENTAL AGREEMENT BETWEEN THE CONTRACTOR AND THE OWNER WILL BE REQUIRED WHEN SUCH CHANGES INVOLVE A NET INCREASE OR DECREASE OF MORE THAN 25 PERCENT OF THE ESTIMATED QUANTITY OF A PAYMENT ITEM WHERE THE ITEM AMOUNTS TO 10% OR MORE OF THE CONTRACT PRICE.

C. THE CONTRACTOR SHALL TAKE NO ADVANTAGE OF ANY APPARENT ERROR OR OMISSION IN THE DRAWINGS OR SPECIFICATIONS, AND THE ENGINEER SHALL BE PERMITTED TO MAKE CORRECTIONS AND INTERPRETATIONS AS MAY BE DEEMED NECESSARY FOR FULFILLMENT OF THE INTENT OF THE CONTRACT DOCUMENTS.

D. THE ENGINEER WILL MAKE MEASUREMENTS AND DETERMINATIONS AS NECESSARY TO CLASSIFY THE WORK WITHIN PAY ITEMS AND DETERMINE THE QUANTITIES FOR PAY PURPOSES; SUCH DECISIONS WILL BE FINAL AFTER 3 DAYS IF THE CONTRACTOR DOES NOT SUBMIT A WRITTEN NOTICE AS DEFINED IN THE FOLLOWING PARAGRAPH.

E. IF THE CONTRACTOR DIFFERS WITH THE ENGINEER'S CLASSIFICATION OF THE PAY ITEMS OR DETERMINATION OF QUANTITIES OF THE PAY ITEMS, HE MUST NOTIFY THE ENGINEER IN WRITING WITHIN 3 DAYS OF THE TIME THAT THE CONTRACTOR IS INFORMED OF THE ENGINEER'S DECISION. OTHERWISE THE OWNER WILL NOT CONSIDER ANY SUCH DIFFERENCE AS A CLAIM FOR PAYMENT.

F. FAILURE ON THE PART OF THE CONTRACTOR TO CONSTRUCT ANY ITEM TO PLAN OR AUTHORIZED DIMENSIONS WITHIN THE SPECIFICATION TOLERANCES SHALL RESULT IN RECONSTRUCTION TO ACCEPTABLE TOLERANCES AT NO ADDITIONAL COST TO THE OWNER, ACCEPTANCE AT NO PAY, OR, ACCEPTANCE AT REDUCED FINAL PAY QUANTITY OR REDUCED UNIT PRICE, ALL AT THE DISCRETION OF THE ENGINEER.

G. THE QUANTITY FOR A PAY ITEM WILL BE REVISED ONLY IN THE EVENT THAT IT IS DETERMINED TO BE SUBSTANTIALLY IN ERROR. AN ERROR SHALL BE DEEMED SUBSTANTIAL IF THE QUANTITY WILL INCREASE OR DECREASE IN EXCESS OF FIVE PERCENT OF THE ORIGINAL QUANTITY FOR THAT ITEM OR THE AMOUNT DUE FOR THAT ITEM WILL INCREASE OR DECREASE IN EXCESS OF $500 (WHICHEVER IS SMALLER). IN GENERAL, SUCH REVISIONS WILL BE DETERMINED BY FINAL MEASUREMENT OR PLAN CALCULATIONS OR BOTH AS ADDITIONS TO OR DEDUCTION FROM PLAN QUANTITIES SPECIFIED WITHIN THESE CONTRACT DOCUMENTS.

H. WORK SHALL NOT BE CONSIDERED COMPLETE UNTIL ALL TESTING HAS BEEN SATISFACTORILY COMPLETED AND THE ITEM OF WORK HAS DEMONSTRATED COMPLIANCE WITH PLANS AND SPECIFICATIONS.

I. A PRELIMINARY MONTHLY APPLICATION FOR PAYMENT SHALL BE SUBMITTED TO THE OWNER FOR REVIEW FIVE (5) DAYS PRIOR TO THE SUBMITTAL FOR APPROVAL OF THE CONTRACTOR'S MONTHLY PAYMENT REQUEST.

J. ALL MATERIALS SUPPLIED FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF "ORANGE COUNTY UTILITIES STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL, APPENDIX D – LIST OF APPROVED PRODUCTS". PRODUCTS THAT ARE SUBMITTED FOR USE ON THIS PROJECT THAT ARE NOT ON THE APPROVED LIST WILL NOT BE CONSIDERED AS ACCEPTABLE FOR USE.

1.02 APPLICATION FOR PAYMENT

A. APPLICATIONS FOR PAYMENT SHALL BE SUBMITTED BY THE CONTRACTOR TO THE OWNER'S RESIDENT PROJECT REPRESENTATIVE (RPR) IN ACCORDANCE WITH THE SCHEDULE ESTABLISHED BY GENERAL CONDITIONS AND AGREEMENT BETWEEN THE OWNER AND THE CONTRACTOR.

B. FORMAT:

SUBMIT APPLICATIONS TYPED ON FORMS PROVIDED BY THE OWNER. THE CONTRACROR SHALL PREPARE ITEMIZED CONTINUATION SHEETS USING THE ACCEPTED SCHEDULE OF VALUES AND ATTACH THEM TO THE APPLICATION. EACH ITEM SHALL HAVE AN ASSIGNED DOLLAR VALUE FOR THE CURRENT PAY PERIOD, AND A CUMULATIVE VALUE FOR THE PROJECT TO DATE. CHANGE ORDERS EXECUTED PRIOR TO THE DATE OF SUBMISSION SHALL BE LISTED AT THE END OF THE CONTINUATION SHEETS AND SHALL BE TOTALED SEPARATELY.

THE FOLLOWING ITEMS SHALL BE INCLUDED WITH EACH COPY OF THE APPLICATION FOR PAYMENT:

A. PROGRESS SCHEDULE
B. STORED MATERIAL LOG
C. PARTIAL RELEASE OF LIENS (FOR PAYMENT FOR STORED MATERIAL)
D. CONSENT OF SURETY
E. INVOICES FOR STORED MATERIALS
F. UPDATED RECORD DRAWINGS

THE CONTRACTOR SHALL CERTIFY, FOR EACH CURRENT PAY REQUEST, THAT ALL PREVIOUS PAYMENTS RECEIVED FROM THE OWNER, UNDER HIS CONTRACT, HAVE BEEN APPLIED BY THE CONTRACTOR TO DISCHARGE IN FULL ALL OBLIGATIONS OF THE CONTRACTOR IN CONNECTION WITH WORK COVERED BY PRIOR APPLICATIONS FOR PAYMENT, AND ALL MATERIALS AND EQUIPMENT INCORPORATED INTO THE WORK ARE FREE AND CLEAR OF ALL LIENS, CLAIMS, SECURITY INTEREST AND ENCUMBRANCES. CONTRACTOR SHALL ATTACH TO EACH APPLICATION FOR PAYMENT LIKE AFFIDAVITS BY ALL SUBCONTRACTORS AND SUPPLIERS. CONTRACTOR SHALL ALSO ATTACH A "CONSENT OF SURETY" TO EACH APPLICATION FOR PAYMENT. ADDITIONALLY, A "PARTIAL RELEASE OF LIEN" FOR EACH SUBCONTRACTOR AND SUPPLIER SHALL BE ATTACHED TO EACH APPLICATION FOR PAYMENT.

SUBMIT SEVEN (7) COPIES OF EACH APPLICATION TO THE RESIDENT PROJECT REPRESENTATIVE. EACH COPY SHALL INCLUDE ORIGINAL SIGNATURES. THE RESIDENT PROJECT REPRESENTATIVE SHALL REVIEW THE APPLICATION AND VERIFY QUANTITIES OF INSTALLED WORK AND STORED MATERIALS. UPON RPR APPROVAL, THE CONTRACTOR SHALL SUBMIT THE APPLICATION TO THE OWNER FOR REVIEW. WHEN THE OWNER FINDS THE APPLICATION PROPERLY COMPLETED AND CORRECT, THE OWNER WILL MAKE PAYMENT TO THE CONTRACTOR.

C. WORK NOT INSTALLED IN ACCORDANCE WITH THEREQUIREMENTS OF THE CONTRACT DOCUMENTS OR MATERIALS NOT CONFORMING TO THE CONTRACT DOCUMENTS WILL NOT BE

APPROVED BY THE RESIDENT PROJECT REPRESENTATIVE, OWNER OR OWNER/ENGINEER FOR PAYMENT.

D. UNIT PRICE CONTRACTS/ITEMS. LINEAR FEET SHALL BE MEASURED ALONG THE HORIZONTAL LENGTH OF THE CENTERLINE OF THE INSTALLED MATERIAL, UNLESS OTHERWISE SPECIFIED. PIPE SHALL BE MEASURED ALONG THELENGTH OF THE COMPLETED PIPELINE, REGARDLESS OF THE TYPE OF JOINT REQUIRED, WITHOUT DEDUCTION FOR THE LENGTH OF VALVES OR FITTINGS.

E. LUMP SUM CONTRACT/ITEMS. THE MEASUREMENT OF WORK FOR LUMP SUM CONTRACTS AND/OR ITEMS SHALL BE BASED ON THE INFORMATION COMPILED BY THE CONTRACTORS OWN FIELD VERIFICATIONS AND INVESTIGATIONS AND TESTING RPIOR TO BIDDING.

F. THE FOLLOWING DESCRIBES THE SPECIFIC WORK AND METHODS OF MEASUREMENT FOR THE ITEMS LISTED IN THE BID SCHEDULE. MEASUREMENT AND PAYMENT FOR EACH BID ITEM SHALL INCLUDE ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO PERFORM THE WORK INCLUDED FOR THAT RESPECTIVE ITEM TO PROVIDE A COMPLETE AND OPERABLE INSTALLATION. RELATED WORK NOT SPECIFICALLY LISTED OR IDENTIFIED, BUT EVIDENTLY NECESSARY FOR SATISFACTORY COMPLETION OF THE ITEM, SHALL BE CONSIDERED TO BE INCLUDED.

G. NO SEPARATE PAYMENT WILL BE MADE FOR THE FOLLOWING WORK AND ITS COST SHALL BE INCLUDED IN THE APPROPRIATE PAY ITEM:

- APPLICATIONS AND PULLING OF ALL UTILITY AND CONSTRUCTION PERMITS
- SHOP DRAWINGS, WORKING DRAWINGS, AND SAMPLES
- FIELD ENGINEERING, SURVEYING AND LAYOUT
- CLEARING AND GRUBBING
- TRENCH EXCAVATION, SHEETING SHORING AND BRACING
- LOCATING AND SUPPORTING EXISTING UTILITIES
- STRUCTURAL FILL, BACKFILL, COMPACTION AND GRADING
- SODDING
- CLEANUP
- TESTING MATERIALS AND APPARATUS, INCLUDING PROVISIONS FOR WATER TO FILL, FLUSH, AND TEST MAINS
- FITTINGS AND PIPE RESTRAINTS

2.0 PAY ITEMS

2.01 MOBILIZATION, DEMOBILIZATION & BONDS (PAY ITEM 1)

A. WORK INCLUDES: LOCATING EXISTING RIGHT-OF-WAYS, EXISTING ITEMS TO REMAIN AND/OR BE REMOVED AND STAKING OF PROPOSED STRUCTURES AND PIPING ALIGNMENT AS NECESSARY TO PROPERLY CONSTRUCT THE PROJECT IN ACCORDANCE WITH THE PLANS. ALL DEVIATIONS FROM THE PLANS MUST BE APPROVED IN WRITING BY THE OWNER PRIOR TO CONSTRUCTION. PAYMENT OF SEVENTY-FIVE PERCENT (75%) OF THE APPLICABLE LUMP SUM PRICE FOR THE ITEM SHALL BE FULL COMPENSATION FOR THE PREPARATORY WORK AND OPERATIONS IN MOBILIZING FOR BEGINNING WORK ON THE PROJECT, INCLUDING, BUT NOT LIMITED TO, THOSE OPERATIONS NECESSARY FOR THE MOVEMENT OF PERSONNEL, EQUIPMENT, SUPPLIES AND INCIDENTALS TO THE PROJECT SITE, AND FOR ESTABLISHMENT OF FIELD OFFICES, STORAGE SHEDS, SAFETY EQUIPMENT AND FIRST AID SUPPLIES, SANITARY AND OTHER FACILITIES, BONDS, PERMITS, AND FEES, CONSTRUCTION SCHEDULES, PROJECT SIGNS, INSURANCE, AND ANY OTHER PRECONSTRUCTION EXPENSE NECESSARY FOR THE START OF THE WORK. PAYMENT OF THE REMAINING TWENTY-FIVE PERCENT (25%) OF THE APPLICABLE LUMP SUM PRICE FOR THE ITEM SHALL INCLUDE THOSE OPERATIONS, MATERIALS, LABOR, AND EQUIPMENT NECESSARY FOR CLEANUP OF STORAGE/LAYDOWN YARD, DEMOBILIZATION FROM THE SITE, AND ASSOCIATED WORK TO CLOSE OUT THE PROJECT AND WILL BE PAID WITH THE FINAL PAY REQUEST.

B. UNIT OF MEASUREMENT IS LUMP SUM. THE AMOUNT OF THIS BID ITEM SHALL NOT EXCEED FIVE PERCENT (5%) OF THE TOTAL BASE BID.

2.02 INDEMNIFICATION (PAY ITEM 2)

IN CONSIDERATION OF THE CONTRACTOR'S INDEMNITY AGREEMENT AS STATED IN THE CONTRACT DOCUMENTS, OWNER AGREES THAT SUCH SPECIFIC CONSIDERATION SHALL BE $100.00 AND OTHER GOOD AND VALUABLE CONSIDERATION, RECEIPT OF WHICH IS ACKNOWLEDGED UPON SIGNING OF THE AGREEMENT, TO THE FULLEST EXTEND PERMITTED BY LAW, THE CONTRACTOR (OR CONSULTANT) SHALL INDEMNIFY, HOLD HARMLESS AND DEFEND THE OWNER, ITS AGENTS, SERVANTS, AND EMPLOYEES FROM AND AGAINST ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES INCLUDING, BUT NOT LIMITED TO, ATTORNEY'S FEES AND OTHER LEGAL COSTS SUCH AS THOSE FOR PARALEGAL, INVESTIGATIVE AND LEGAL SUPPORT SERVICES AND THE ACTUAL COST INCURRED FOR EXPERT WITNESS TESTIMONY, ARISING OUT OF OR RESULTING FROM THE PERFORMANCE OF SERVICES REQUIRED UNDER THIS AGREEMENT, PROVIDED THAT SAME IS CAUSED IN WHOLE OR PART BY THE ERROR, OMISSION, NEGLIGENT ACT, CONDUCT OR MISCONDUCT OF THE CONTRACTOR, ITS AGENTS, SERVANTS, EMPLOYEES, OR SUBCONTRACTORS. IN ACCORDANCE WITH SECTION 725.06, FLORIDA STATUTES, ADEQUATE CONSIDERATION HAS BEEN PROVIDED TO THE CONTRACTOR FOR THIS OBLIGATION, THE RECEIPT AND SUFFICIENCY OF WHICH IS HEREBY SPECIFICALLY ACKNOWLEDGED.

2.03 PRECONSTRUCTION VIDEO (PAY ITEM 3)

A. WORK INCLUDES: PRECONSTRUCTION DOCUMENTATION VIA DIGITAL VIDEO TAPING PLUS ALL DIGITAL OR 35MM COLOR PHOTOGRAPHS NECESSARY TO PICK UP DETAIL NOT EASILY VISIBLE OR APPARENT ON THE DIGITAL VIDEO TAPE.

B. PAYMENT FOR THIS ITEM SHALL BE LUMP SUM DIVIDED INTO EQUAL MONTHLY PAYMENTS BASED ON THE CONTRACT TIME.

2.04 RECORD DRAWINGS (PAY ITEM 4)

A. WORK INCLUDES: THE PREPARATION AND MAINTENANCE OF AS-BUILT DATA ON A SET OF CONTRACT DOCUMENTS TO BE AVAILABLE ON-SITE. THE FINAL PREPARATION OF RECORD DRAWINGS SHALL BE PREPARED IN ACCORDANCE WITH ORANGE COUNTY UTILITIES STANDARDS, 2011 EDITION.

B. PAYMENT SHALL BE LUMP SUM AND PAID WITH THE FINAL PAY REQUEST.

2.05 UTILITY MAINTENANCE OF TRAFFIC (PAY ITEM 5)

A. MEASUREMENT OF THE LUMP SUM ITEM TO INCLUDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR THE CONSTRUCTION OF THE UTILITY WORK AS REQUIRED BY THE MAINTENANCE OF TRAFFIC TECHNICAL PROVISION (PART H, TP 102) OF THIS CONSTRUCTION CONTRACT.

B. PAYMENT OF THE LUMP SUM PRICE SHALL BE FULL COMPENSATION FOR FURNISHING ALL LABOR, MATERIALS AND EQUIPMENT TO PROVIDE SAFE AND EFFECTIVE MAINTENANCE OF TRAFFIC OF VEHICULAR AND PEDESTRIAN TRAFFIC, INCLUDING BUT NOT LIMITED TO, PREPARATION AND SUBMITTAL OF A COMPLETE TRAFFIC CONTROL PLAN, TEMPORARY LANES, WALKS OR DRAINAGE FACILITIES, FLAGMEN, SIGNS, BARRICADES, CHANNELIZATION DEVICES, LIGHTS AND OTHER PROTECTIVE DEVICES NECESSARY FOR THE CONSTRUCTION OF THE UTILITY WORK. THIS WORK ITEM ALSO INCLUDES TEMPORARY ASPHALT TO FACILITATE ORANGE COUNTY UTILITY WORK. OPEN CUT AND RESTORATION SHALL BE IN COMPLIANCE WITH FDOT STANDARDS. THIS ITEM WILL BE PAID BASED ON THE PRECENTAGE OF THE TOTAL VALUE OF THE WORK PERFORMED TO DATE PROPORTIONAL TO THE ORIGINAL CONTRACT AMOUNT FOR THE RESPECTIVE LINE ITEM.

2.06 FURNISH AND INSTALL WATER MAIN (PAY ITEM 6)

A. WORK INCLUDES: FURNISHING ALL LABOR, MATERIALS, AND EQUIPMENT, AND CONSTRUCTING THE RESPECTIVE PIPELINE'S COMPLETE INSTALLATION INCLUDING ALL DIP POLYETHYLENE ENCASEMENT, CLEARING AND GRUBBING, PROTECTION OF EXISTING UTILITIES, EXCAVATION, SHEETING, SHORING AND BRACING, BACKFILL, COMPACTION, GRADING, TEMPORARY EROSION CONTROL, SURVEY, LAYOUT, PIPELINE IDENTIFICATION AND WARNING TAPE, THRUST RESTRAINTS, SODDING, ALL TESTING (INCLUDING PRESSURE AND BACTERIOLOGICAL), FLUSHING OR PIGGING,

DISPOSAL OF EXCESS MATERIAL, AND RESTORATION OF AREA. THIS ITEM ALSO INCLUDES ALL NECESSARY PIPE FITTINGS INCLUDING REDUCERS, BENDS, TEES, WYES, PLUGS, SLEEVES, RESTRAINING DEVICES, NUTS, BOLTS, GASKETS, LINE LOCATION WIRES, REMOVAL AND REPLACEMENT OF SIDEWALKS, REMOVAL AND REPLACEMENT OF FENCES, MAILBOXES, SHRUBS, IRRIGATION SPRINKLERS, AND OTHER OBSTRUCTIONS, TREE REMOVAL OR PROTECTION, INSTALLATION OF SILT FENCE, CONNECTION TO (AND MECHANICAL RESTRAINT OF) EXISTING PIPES OR STRUCTURES AND ALL OTHER ITEMS INCIDENTAL TO THE CONSTRUCTION OF THE PIPELINES. CONTRACTOR SHALL PROVIDE CERTIFICATION THAT ALL PIPE WAS PROPERLY INSTALLED AS PER THE MANUFACTURER'S REQUIREMENTS. THIS PAY ITEM ALSO INCLUDES OPEN CUT AND RESTORATION OF ROADWAY INCLUDING MILLING AND RESURFACING THE ROADWAY WITHIN THE LIMITS SHOWN ON THE PLANS.

B. THE UNITS OF MEASUREMENT FOR THIS ITEM WILL BE LINEAL FEET OF DUCTILE IRON WATER MAIN ACTUALLY FURNISHED AND INSTALLED.

2.07 FURNISH AND INSTALL GATE VALVES (PAY ITEM 7)

A. WORK INCLUDES: FURNISHING ALL LABOR, MATERIALS AND EQUIPMENT INCLUDING DEWATERING, EXCAVATION, SHEETING, SHORING, BRACING, INSTALLATION BACKFILL, COMPACTION, VALVE BOXES ADJUSTED TO GRADE, VALVE NUT EXTENSIONS AND COVER, CONCRETE COLLARS AND PADS, IDENTIFICATION DISCS, LOCATING WIRES, ACCESSORIES, TEMPORARY EROSION CONTROL, CONNECTION TO NEW AND/OR EXISTING PIPES, THRUST RESTRAINT, LEAKAGE TESTING AND RESTORATION. CONTRACTOR SHALL BE REQUIRED TO CUT A "V" IN THE CURBING TO INDICATE THE LOCATION OF THE VALVE.

B. UNIT OF MEASUREMENT IS THE NUMBER OF GATE VALVES WITH THE VALVE NUT EXTENSION AND VALVE BOXES SATISFACTORILY FURNISHED AND INSTALLED COMPLETE WITH COVERS AND CONCRETE COLLARS.

2.08 FURNISH AND INSTALL TAPPING SLEEVE AND TAPPING VALVE (PAY ITEMS 8-9)

A. WORK INCLUDES: FURNISHING ALL LABOR, MATERIALS AND EQUIPMENT, INCLUDING DEWATERING, EXCAVATION, SHEETING, SHORING, BRACING, INSTALLATION BACKFILL, COMPACTION, VALVE BOXES ADJUSTED TO GRADE, VALVE NUT EXTENSIONS AND COVER, CONCRETE COLLARS AND PADS, IDENTIFICATION DISCS, LOCATING WIRES, ACCESSORIES, TEMPORARY EROSION CONTROL, CONNECTION TO NEW AND/OR EXISTING PIPES, THRUST RESTRAINT, LEAKAGE TESTING AND RESTORATION, INSTALLATION OF TAPPING SLEEVE, TAPPING VALVE AND VALVE BOX, TAPPING OF MAIN LINE, THRUST RESTRAINT, AND TESTING. THIS WORK INCLUDES TAPPING OF EXISTING POTABLE WATER MAINS AND EXISTING FORCE MAINS. PAYMENT WILL ONLY BE MADE FOR THOSE TAPPING SLEEVES AND VALVES THAT ARE ACTUALLY INSTALLED. THE COUNTY RESERVES THE RIGHT TO DELETE IN THE LOCATIONS WHERE THEY ARE NOT USED DURING CONSTRUCTION

B. UNIT OF MEASUREMENT IS EACH SLEEVE AND VALVE SATISFACTORILY FURNISHED AND INSTALLED.

2.09 FURNISH AND INSTALL LINE STOPS (PAY ITEM 10)

A. WORK INCLUDES: FURNISHING ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO INSTALL EACH LINE STOP ASSEMBLY INCLUDING PIPE BORING, TEMPORARY VALVES OR PLUGS, RESTRAINT OF ALL EXISTING PIPE PER RESTRAINED PIPE TABLES, RECOVERY OF THE TEMPORARY VALVES AND PLUGS, AND SEALING OF THE BORE HOLE WITH A PERMANENT PLUG AND PROPERLY CAPPING OF THE EXISTING LINE. RESTRAINT INFORMATION SHALL BE PROVIDED WITH SHOP DRAWING SUBMITTAL. THIS ITEM ALSO INCLUDES CLEARING AND GRUBBING, TEMPORARY EROSION CONTROL, EXCAVATION, SHEETING, SHORING AND BRACING, DEWATERING, BACKFILL, COMPACTION, PROTECTION OF EXISTING POTABLE WATER SYSTEM AND FORCE MAINS, DISINFECTION FOR WATER SYSTEM, RESTORATION, SODDING AND CLEAN UP.

B. UNIT OF MEASUREMENT: THE QUANTITY FOR PAYMENT SHALL BE THE ACTUAL NUMBER OF LINE STOP ASSEMBLIES SATISFACTORILY FURNISHED AND INSTALLED INCLUDING ALL RESTRAINTS TO EXISTING LINES.

2.10 GROUTING AND REMOVAL OF EXISTING PIPE (PAY ITEM 11)

A. WORK INCLUDES: THE WORK OF THIS ITEM SHALL INCLUDE ALL LABOR, MATERIALS AND NECESSARY EQUIPMENT FOR THE REMOVAL OF EXISTING AND TEMPORARY WATER MAINS, GRAVITY MAINS OR FORCE MAINS AS CALLED FOR ON THE PLANS, WHICH INCLUDES DRAINING AND PROPER DISPOSAL OF PIPE AND CONTENTS, DISCONNECTION FROM EXISTING MAINS OR STRUCTURES AND INSTALLATION OF ANY DUCTILE IRON CAPS OR PLUGS THAT MAY BE REQUIRED. THIS ITEM ALSO INCLUDES ALL CLEARING AND GRUBBING, ANY MOT THAT MAY BE REQUIRED FOR UTILITY LINE REMOVAL, PROTECTION OF EXISTING UTILITIES, EXCAVATION, SHEETING, SHORING AND BRACING, DEWATERING INCLUDING ALL TESTING MONITORING AND PROPER DISPOSAL OF GROUNDWATER, BACKFILL, COMPACTION, GRADING, SODDING, DISPOSAL OF EXCESS MATERIAL, AND RESTORATION OF AREA AS WELL AS THE REMOVAL AND DISPOSAL OF ANY SERVICE LINES CONNECTED TO THE PIPES AS WELL AS THE PROPER DISPOSAL OF REMOVED MATERIALS AND RESTORATION AFTER COMPLETION OF CONSTRUCTION OPERATIONS. REMOVAL OF THE EXISTING AND/OR TEMPORARY MAINS SHALL OCCUR FOLLOWING NEW LINE INSTALLATIONS AND FDEP CLEARANCE. THIS PAY ITEM ALSO INCLUDES OPEN CUT AND RESTORATION OF ROADWAY.

B. BASIS OF PAYMENT FOR THIS PAY ITEM WILL BE THE ACTUAL LINEAR FEET OF PIPE REMOVED OR GROUTED AS MEASURED ALONG THE CENTERLINE OF THE REMOVED PIPE.

PAY ITEM #	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT.
1	MOBILIZATION DEMOBILIZATION AND BONDS (5% MAXIMUM)	LS	1		
2	INDEMNIFICATION	LS	1		
3	PRECONSTRUCTION VIDEO	LS	1		
4	RECORD DRAWINGS	LS	1		
5	MAINTENANCE OF TRAFFIC	LS	1		
6	FURNISH AND INSTALL 6" DIP	FT	325		
7	FURNISH AND INSTALL 6" GATE VALVE	EA	2		
8	FURNISH AND INSTALL TAPPING SLEEVE AND VALVE 6"X6"	EA	1		
9	FURNISH AND INSTALL TAPPING SLEEVE AND VALVE 16"X6"	EA	1		
10	FURNISH AND INSTALL 6" LINESTOP	EA	2		
11	REMOVAL/GROUTING OF EXISTING PIPE	FT	325		
				TOTAL	

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley»Horn
Certificate Of Authorization No. 696
STEPHEN H. ROMANO, P.E.
P.E. License No. 57570
189 South Orange Avenue, Suite 1000
Orlando, Florida 32801

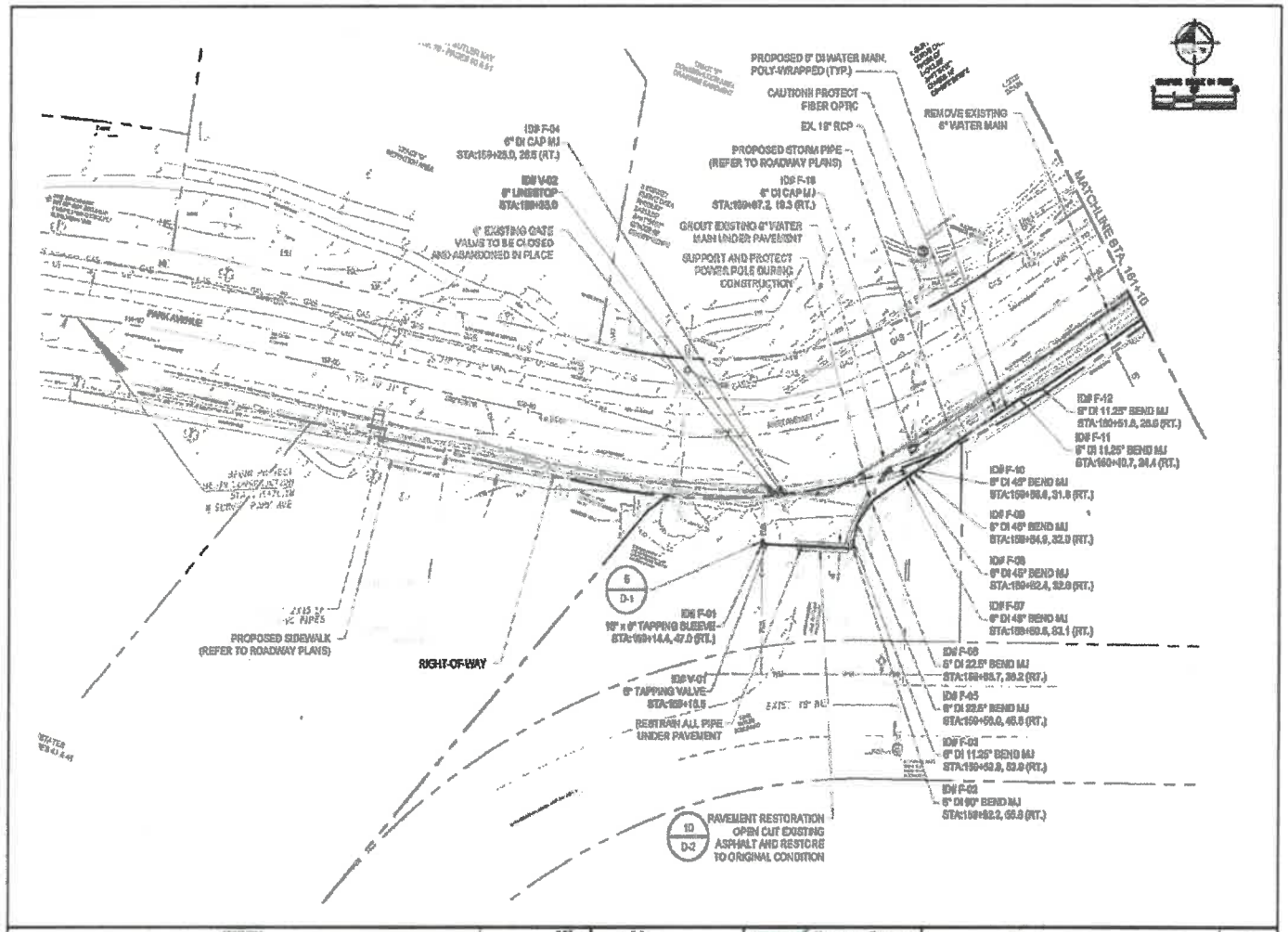
ORANGE COUNTY UTILITIES DEPARTMENT

PARK AVENUE UTILITY RELOCATIONS

GENERAL NOTES 3

SHEET NO.

G-3



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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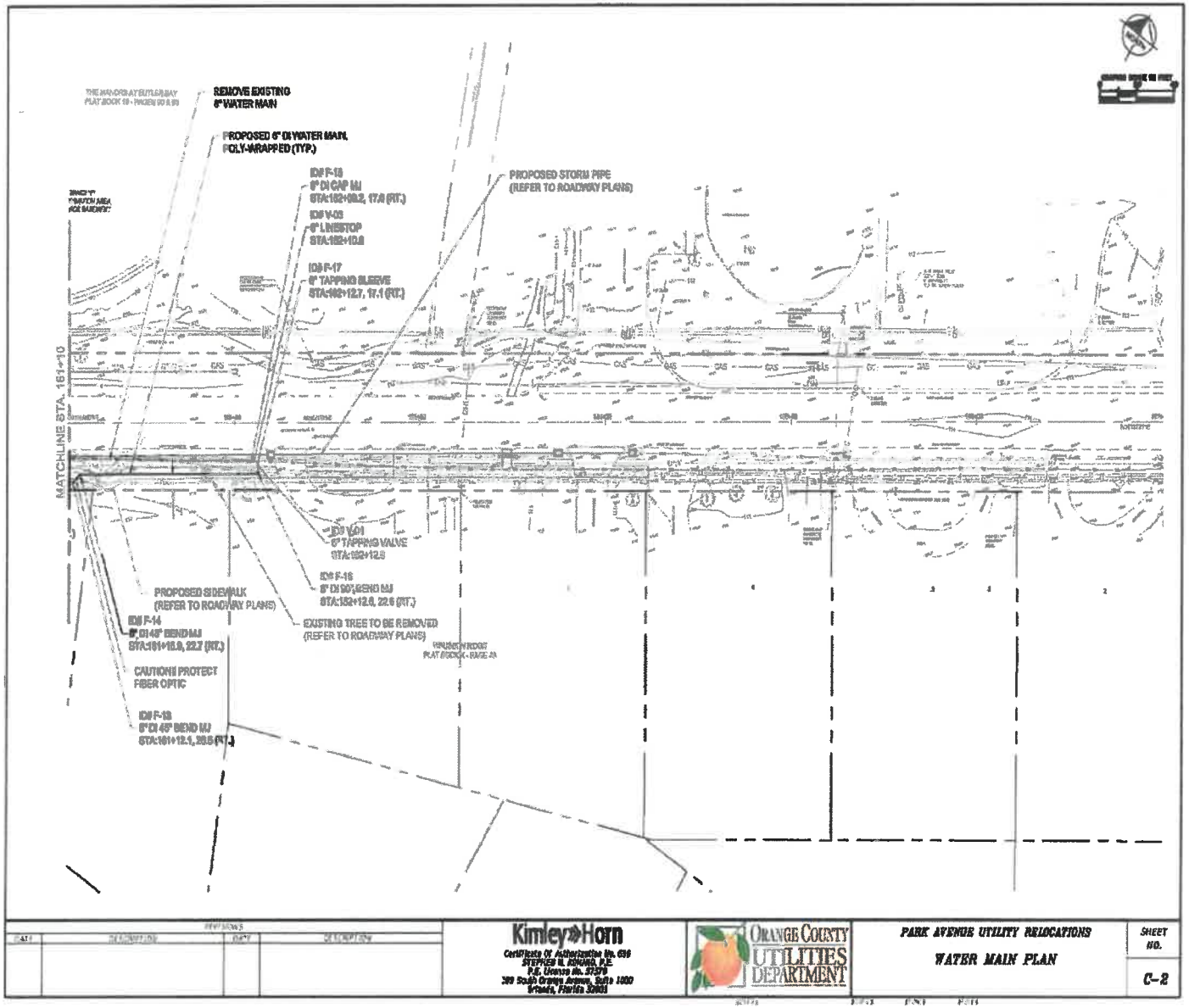
ORANGE COUNTY UTILITIES DEPARTMENT

PARK AVENUE UTILITY RELOCATIONS

WATER MAIN PLAN

SHEET NO. C-1



REVISIONS			
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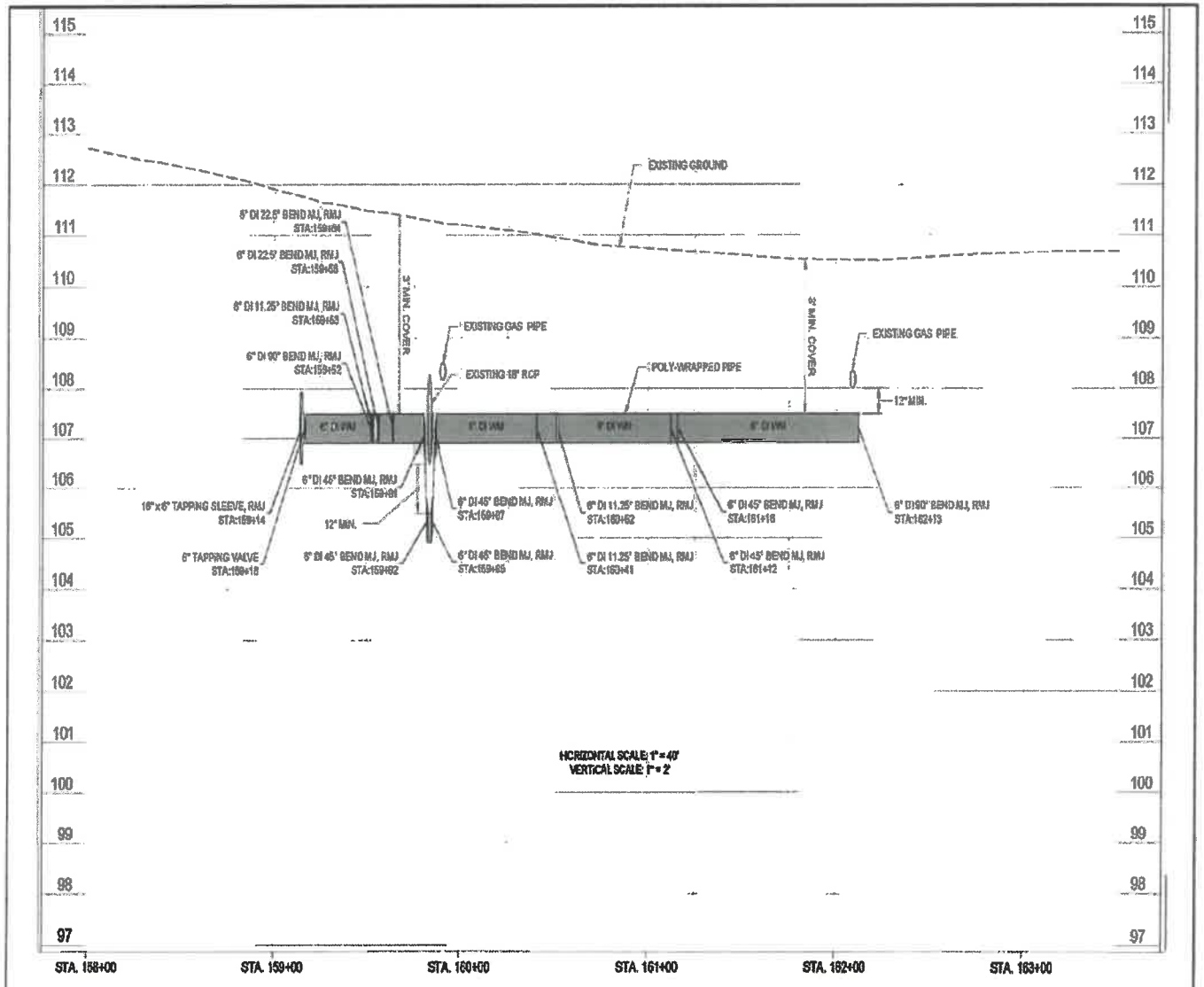
ORANGE COUNTY UTILITIES DEPARTMENT

PARK AVENUE UTILITY RELOCATIONS

WATER MAIN PLAN

SHEET NO. C-2



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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Orlando, Florida 32801

ORANGE COUNTY UTILITIES DEPARTMENT

PARK AVENUE UTILITY RELOCATIONS

WATER MAIN PROFILE

SHEET NO. C-8

FITTING TABLE					
ID NUMBER	DESCRIPTION	STATION	ELEVATION	NORTHING	EASTING
F-01	18" x 6" TAPPING SLEEVE				
F-02	6" DI 90° BEND MJ				
F-03	6" DI 11.25° BEND MJ				
F-04	6" DI CAP MJ				
F-05	6" DI 22.5° BEND MJ				
F-06	6" DI 22.5° BEND MJ				
F-07	6" DI 45° BEND MJ				
F-08	6" DI 45° BEND MJ				
F-09	6" DI 45° BEND MJ				
F-10	6" DI 45° BEND MJ				
F-11	6" DI 11.25° BEND MJ				
F-12	6" DI 11.25° BEND MJ				
F-13	6" DI 45° BEND MJ				
F-14	6" DI 45° BEND MJ				
F-15	6" DI CAP MJ				
F-16	6" DI 90° BEND MJ				
F-17	6" TAPPING SLEEVE				
F-18	6" DI CAP MJ				

VALVE ASSET TABLE					
ID NUMBER	DESCRIPTION	STATION	ELEVATION	NORTHING	EASTING
V-01	6" TAPPING GV MJ				
V-02	6" LINESTOP				
V-03	6" LINESTOP				
V-04	6" TAPPING GV MJ				

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley»Horn
Certificate of Authorization No. 696
STEPHEN E. SOMERS, P.E.
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Orlando, Florida 32801

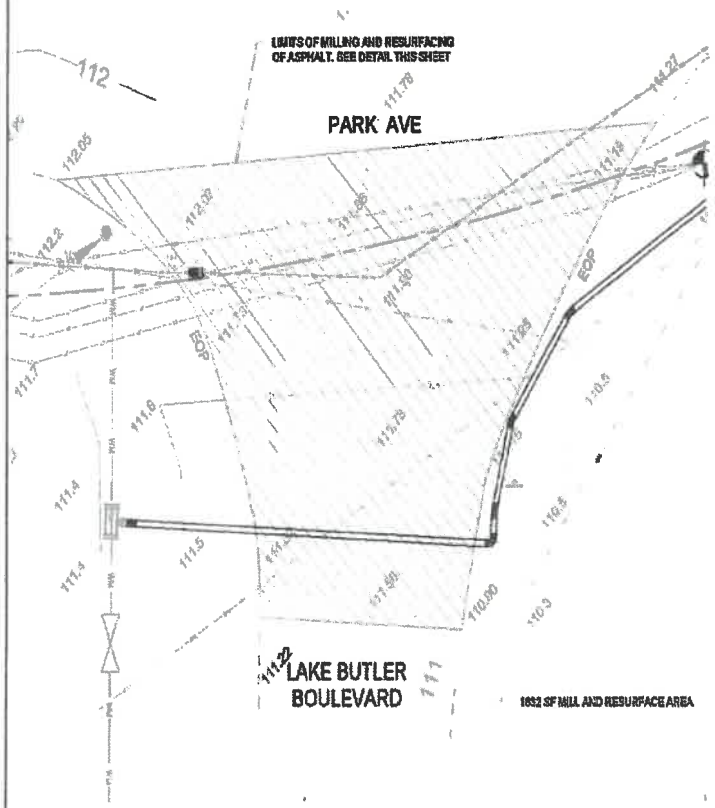
ORANGE COUNTY UTILITIES DEPARTMENT

PARK AVENUE UTILITY RELOCATIONS

ASSET TABLE

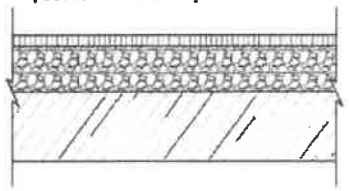
SHEET NO.

C-4



LIMITS OF MILLING AND RESURFACING
SCALE: 1" = 10'

- MILL EXISTING ASPHALT PAVEMENT 1-INCH AVERAGE DEPTH
- RESURFACE 1-INCH ASPHALT SURFACE COURSE (FDOT SUPERPAVE 9.5 TL-C)



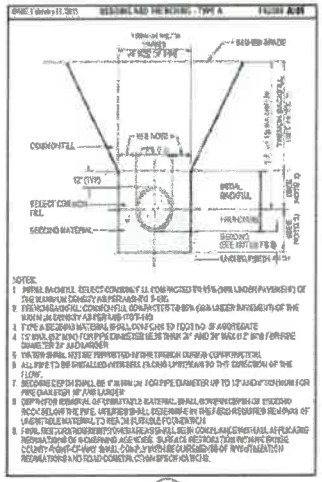
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley»Horn
Certificate of Authorization No. 696
STEPHEN K. ROHNER, P.E.
P.E. License No. 57329
189 South Orange Avenue, Suite 1000
Orlando, Florida 32801

ORANGE COUNTY UTILITIES DEPARTMENT

PARK AVENUE UTILITY RELOCATIONS
RESTORATION DETAIL

SHEET NO.
C-5

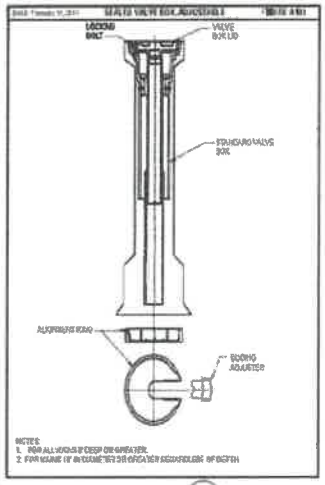


DETAIL 1/D-1

NO SCALE

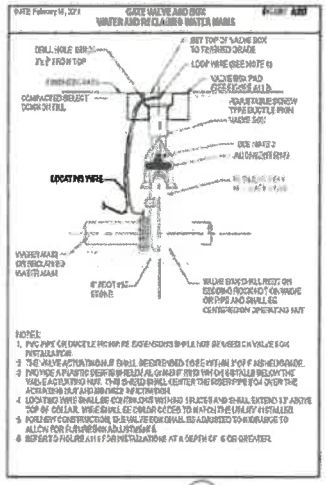
DETAIL 2/D-1

NO SCALE



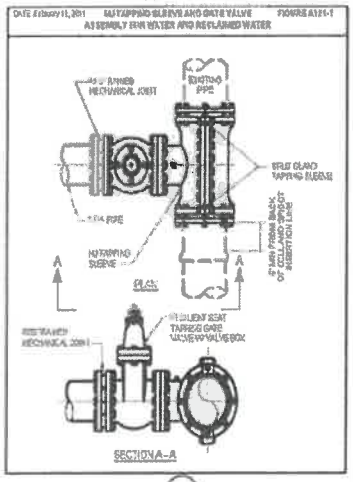
DETAIL 3/D-1

NO SCALE



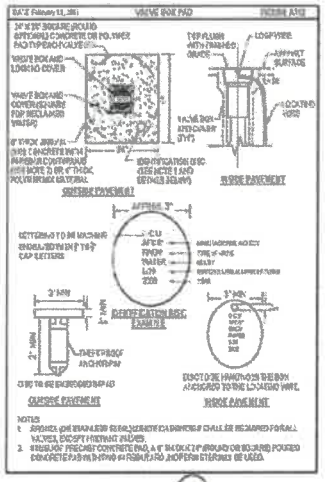
DETAIL 4/D-1

NO SCALE



DETAIL 5/D-1

NO SCALE

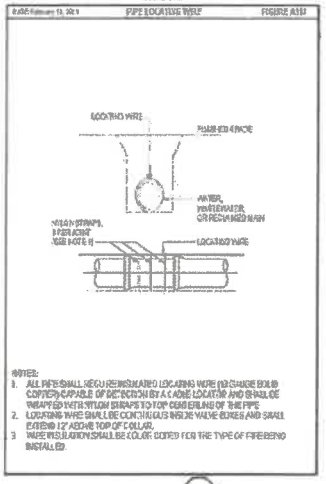


DETAIL 6/D-1

NO SCALE

DETAIL 7/D-1

NO SCALE



DETAIL 8/D-1

NO SCALE

DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley»Horn
Certificate of Authorization No. 696
STEPHEN H. KOHNKE, P.E.
P.E. License No. 57579
189 South Orange Avenue, Suite 1000
Orlando, Florida 32801

ORANGE COUNTY UTILITIES DEPARTMENT

PARK AVENUE UTILITY RELOCATIONS

DETAILS - 1

SHEET NO. D-1

OCU GENERAL NOTES

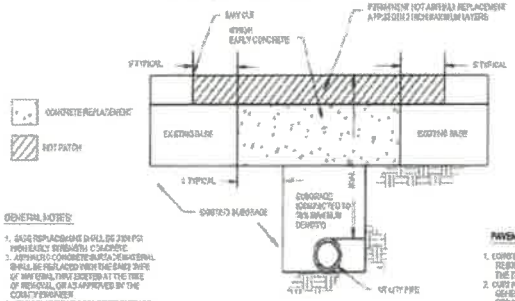
1. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN EXCAVATING IN PROXIMITY OF WATER MAINS, WASTEWATER FORCE MAINS, GRAVITY MAINS AND RECLAIMED WATER MAINS. MAIN LOCATIONS SHOWN ON PLANS MAY NOT BE EXACT. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXISTING UTILITY LOCATIONS.
2. SHOULD A PIPE EMERGENCY OCCUR, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OCU INSPECTOR OPERATOR (407-836-3771) AND THE OCU INSPECTOR.
3. THE CONTRACTOR SHALL NOTIFY THE OCU CONSTRUCTION DIVISION AT LEAST SEVEN DAYS PRIOR TO COMMENCEMENT OF THE CONSTRUCTION PROJECT BY CALLING (407) 254-9700.
4. THE CONTRACTOR SHALL NOTIFY THE OCU CONSTRUCTION DIVISION AT LEAST 48 HOURS PRIOR TO ANY UTILITIES CONSTRUCTION BY CALLING (407) 254-9700.
5. THE MATERIALS, PRODUCTS, AND CONSTRUCTION OF ALL UTILITIES CONNECTING TO THE OCU SYSTEM SHALL BE IN CONFORMANCE WITH THE ORANGE COUNTY UTILITIES STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL.
6. ALL COMPANIES AND FACILITIES WITHIN THE LIMITS OF THIS PROJECT SHALL BE SUPPORTED AND PROTECTED AGAINST DAMAGE DURING CONSTRUCTION.
7. THE CONTRACTOR, AT THE CONTRACTOR'S EXPENSE, SHALL IMMEDIATELY REPAIR ALL DAMAGES TO OCU MAINS AND FACILITIES. IF THE REPAIR IS NOT MADE IN A TIMELY MANNER, ADDITIONAL DAY OCU MAY PERFORM REQUIRED REPAIRS AND CLEANUP. THE CONTRACTOR WILL BE CHARGED FOR ALL EXPENSES ASSOCIATED WITH THE REPAIR.
8. THE CONTRACTOR SHALL ADJUST ALL EXISTING OCU MAINS AND FACILITIES IN CONFLICT WITH NEW GRADE, NEW OR ALTERED ROADWAYS, SIDEWALKS, DRIVEWAYS, OR STORM WATER IMPROVEMENTS. OCU FACILITIES TO BE ADJUSTED INCLUDE, BUT ARE NOT LIMITED TO PIPELINES, PUMP STATIONS, VALVE BOXES, AIR RELEASE VALVES, FIRE HYDRANTS, MANHOLE COVERS, AND METERS.
9. ONLY OCU SHALL OPERATE OCU WATER, WASTEWATER, AND RECLAIMED WATER VALVES. THE CONTRACTOR SHALL COORDINATE VALVE OPERATION WITH THE OCU INSPECTOR. FOR OPERATION OF VALVES NOT OWNED BY OCU, IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE APPROPRIATE UTILITY REPRESENTATIVE.
10. CONSTRUCTION ACTIVITIES SHALL NOT CAUSE INTERRUPTION IN WATER, WASTEWATER, OR RECLAIMED WATER SERVICE. THE CONTRACTOR SHALL COORDINATE PRE-APPROVED INTERRUPTIONS OF SERVICE WITH THE OCU INSPECTOR 7 WORKING DAYS IN ADVANCE.
11. THE CONTRACTOR SHALL PROVIDE FOR BYPASSING AND/OR HAULING WASTEWATER DURING APPROVED INTERRUPTIONS OF WASTEWATER FLOWS AND COMPRESSORS. THE CONTRACTOR SHALL SUBMIT A BYPASS PLAN SIGNED AND SEALED BY A PROFESSIONAL ENGINEER TO OCU DEVELOPMENT ENGINEERING FOR APPROVAL PRIOR TO IMPLEMENTATION BY CONTRACTOR.
12. ALL VALVES INSTALLED AS PART OF THIS CONSTRUCTION PROJECT SHALL REMAIN CLOSED DURING CONSTRUCTION. KEEP VALVES ON ALL NEW TAPS CLOSED UNTIL CLEARED BY OCU. DO NOT CONNECT NEWLY CONSTRUCTED WATER MAINS TO ANY EXISTING WATER MAINS UNLESS CLEARED BY FDEP AND OCU.
13. THE CONTRACTOR SHALL PROVIDE A WATER ASSEMBLY WITH A BACKFLOW PREVENTER FOR MANAGED TEMPORARY CONNECTIONS TO AN EXISTING POTABLE WATER SYSTEM IN ORDER TO FLUSH, DRAIN AND FILL NEW WATER MAINS WITH POTABLE WATER. ANY TEMPORARY POTABLE WATER CONNECTIONS TO RECLAIMED WATER OR IRRIGATION SHALL ALSO BE REQUIRED WITH A BACKFLOW PREVENTER.
14. FOR PVC PIPE THAT WILL BE OWNED AND MAINTAINED BY OCU, NO PIPE BENDING IS ALLOWED. THE MAXIMUM ALLOWABLE TOLERANCE FOR JOINT DEFLECTION IS 0.75 DEGREES (ONE INCH PER JOINT PER 20 FT STICK OF PIPE). ALIGNMENT CHANGE SHALL BE MADE ONLY WITH SLEEVES AND FITTINGS.
15. FOR HDPE PIPE THAT WILL BE OWNED AND MAINTAINED BY OCU, LONG RADIUS CURVES, EITHER HORIZONTAL OR VERTICAL, MAY BE INSTALLED WITH STANDARD PIPE BY DEFLECTION AT THE JOINTS. MAXIMUM DEFLECTION AT PIPE JOINTS, FITTINGS AND LAYING BANDS FOR THE VARIOUS PIPE LENGTHS SHALL NOT EXCEED 75 PERCENT OF THE PIPE MANUFACTURER'S RECOMMENDATION.

DETAIL 9/D2

NO SCALE

NOTE:

IN-GRADE CUT FOR COMPACTED TO 98% MAX. DENSITY AS DETERMINED BY AASHTO T-180 CUT TO BE REPLACED WITH 3000 PSI HIGH EARLY CONCRETE TO TOP OF EXISTING BASE. CUT AREA TO BE PLATED OR PROTECTED ON THE DAY OF POUR. EXISTING SURFACE TO BE CUT TO A MINIMUM 1 FOOT BEYOND THE CUT.



GENERAL NOTES:

1. BASE REPLACEMENT SHALL BE 3000 PSI HIGH EARLY STRENGTH CONCRETE.
2. ASPHALTIC CONCRETE SURFACE DAMAGE SHALL BE REPLACED WITH THE SAME TYPE OF MATERIAL THAT EXISTED AT THE TIME OF REMOVAL, OR AS APPROVED BY THE COUNTY ENGINEER.
3. MINIMUM ASPHALTIC CONCRETE SURFACE OVERLAY TRANSITIONS SHALL BE ONE (1) INCH OR AS APPROVED BY THE COUNTY ENGINEER.
4. ALL JOINTS SHALL BE MECHANICALLY SAWCUT.

PAVEMENT RESTORATION

1. CONDITIONAL CUTS MAY REQUIRE OVERLAY REMOVAL OF THE COMPLETE WIDTH OF THE TRAVELED WAY.
2. CUTS AT INTERSECTIONS OF STREETS GENERALLY MAY REQUIRE A COMPLETE OVERLAY REMOVAL TO THE END OF ALL RETURN RUNS AND UNDER TO A POINT TWENTY FEET BEYOND THE CUT, WHICHEVER IS GREATER.
3. ACTUAL RESTORATION WILL BE AS STATED ON THE APPROVED PERMIT.

STANDARD ROADWAY OPENCUT DETAIL

ROAD RESTORATION - TYPICAL OF MAJOR OPENCUTS

DETAIL 10/D2

NO SCALE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley»Horn
Certificate Of Authorization No. 696
STEPHEN X. ROWAN, P.E.
P.E. License No. 57529
189 South Orange Avenue, Suite 1000
Orlando, Florida 32801

ORANGE COUNTY UTILITIES DEPARTMENT

PARK AVENUE UTILITY RELOCATIONS

DETAILS - 2

SHEET NO. D-2

EXHIBIT "C"
UTILITY COST ESTIMATE

Estimated Construction Costs for Park Avneue Water Main Relocation

Pay Item	Description	Unit	Qty	Unit Price	Total Amount
1	Mobilization, Demobiliztion and Bonds (5% maximum)	LS	1	5%	$6,000.00
2	Indemnification	LS	1	$5,000.00	$5,000.00
3	Preconstruction Video	LS	1	$5,000.00	$5,000.00
4	MOT	LS	1	$10,000.00	$10,000.00
5	Furnish and Install 6-inch DI	LF	325	$100.00	$32,500.00
6	Furnish and Install 6-inch Gate Valve	EA	2	$3,000.00	$6,000.00
7	Furnish and Install 6x6 Tapping Sleeve and Valve	EA	1	$7,500.00	$7,500.00
8	Furnish and Install 16x6 Tapping Sleeve and Valve	EA	1	$15,000.00	$15,000.00
9	Furnish and Install 6-inch Line Stop	EA	2	$10,000.00	$20,000.00
10	Removal/Grouting of existing pipeline	LF	325	$50.00	$16,500.00
11	Record Drawings	LS	1	$5,000.00	$5,000.00
	Subtotal				$128,500.00
	Contingency 15%				$19,238.00
	Total				$147,738.00

RFP # 2019-05 Park Ave Drainage/Sidewalk - Contractor Response

DESCRIPTION OF SERVICES	Unit	Barracuda Building Corporation	Gregori Construction, Inc	Cathcart Construction Company - Florida, LLC				
Water Main Replocation (Reimbursable from OCU)	Lump Sum	$125,081.00	$110,200.00	$253,820.00				
Sidewalk and Drainage	Lump Sum	$132,143.00	$195,150.00	$322,854.00				
Total	Lump Sum	$257,224.00	$305,350.00	$576,674.00				

THE TOWN OF WINDERMERE

REQUEST FOR PROPOSALS
for
RFP #2019-05 Park Avenue Drainage Improvements

RFP #2019-05

DUE: May 30, 2019
3:00 P.M.

Deliver or mail responses to:
Scott A Brown, Public Works Director
Town of Windermere
614 Main Street
Windermere, FL 34786

REQUEST FOR PROPOSALS (RFP)
for
PARK AVENUE DRAINAGE IMPROVEMENTS

Overview
The Town of Windermere, FL (Town) invites qualified firms (Respondent) to respond to this Request for Proposals (RFP) to provide underground storm water drainage, swale improvements, potable waterline relocation and sidewalk construction along Park Avenue in our Town.

All services shall comply with local, State, and Federal regulations. A comprehensive scope of work is included as Exhibit B to Attachment A.

SBE/MBE Participation
Please note that the Town encourages the participation of small business enterprises (SBEs) and/or minority business enterprises (MBEs) in this procurement.

Term
Upon acceptance of the terms by both the Respondent and the Town, the Town intends to enter into a Ninety (90) day contract term to begin on the effective date. Extensions will be mutually agreed upon prior to the expiration of the original term, incorporating the same terms and conditions as the original agreement.

Submittal Requirements
Respondents desiring to provide services, as described in the scope of services, shall submit one (1) original unbound and one (1) digital copy (USB) of their proposal no later than:

> **3:00 P.M. on May 30, 2019** at the following location:
> **614 Main Street, Windermere, Florida 34786**

Offers by telephone or telegram shall not be accepted. Also, proposers are instructed NOT to fax their proposal. Faxed proposals shall be rejected as non-responsive regardless of where the fax is received.

Respondents are cautioned that they are responsible for delivery to the specific location cited above. Therefore, if your proposal is delivered by an express mail carrier or by any other means, it is your responsibility to ensure delivery to the above address. This office will not be responsible for deliveries made to any place other than the specified address.

It is the sole responsibility of the bidder to ensure that his or her proposal reaches the Town. The time and date for receipt of proposals will be strictly observed. Any proposals received after the submittal deadline will be deemed non-responsive and returned to the Respondent unopened.

Questions/Inquiries
The Town will accept inquiries or questions regarding the contents of this RFP until one (1) week prior to the submittal deadline. Answers to questions will be addressed through addenda and issued no later than four (4) days prior to the submittal deadline. If the Town is unable to provide answers in a timely manner, the submittal deadline may be extended as necessary.

Inquiries and Questions should be directed to the following contact:

Scott A Brown, Public Works Director – sbrown@town.windermere.fl.us

Minimum Qualifications
The Respondent must demonstrate the following:

1. The bidder must demonstrate experience and have the proper equipment for managing underground storm water construction in various situations.

2. Documented knowledge, licensure and experience of Federal, State and Local regulations pertaining to and for underground construction in Orange County, Florida.

Proposal Format
The Proposal should be limited to no more than 10 pages (exclusive of required forms) and address the following criteria in an organized, easily identifiable manner:

1. Cover Letter – Provide a cover letter that included a brief introduction to the Respondent, why the Respondent believes they are uniquely qualified to provide the requested services, and contact information for the Respondent's primary point of contact.

2. Qualifications – Provide evidence that the firm meets the minimum qualifications required by this RFP and include a minimum of 3 references from clients whom the Respondent has provided similar services in the past 5 years. Please include the name of the client, contact information, contract term and value, and the amount of debris monitored. References from Florida clients are preferable.

3. Project Understanding and Approach – Provide an understanding of the solicited services and the Respondent's approach to providing these services.

4. Form of Contract – The form of the Contract to be used by the Town is attached hereto as Attachment A along with Exhibits A – E. The Respondent must include a statement that it has reviewed Attachment A and Exhibits A – E and agrees to be bound by the terms and conditions. The contract terms and conditions in Attachment A and Exhibits A – E are not negotiable.

5. Complete and submit with the Proposal the following forms:
   a. Quote – Exhibit C to Attachment A
   b. Drug Free Workplace Certification – Attachment B
   c. Equal Employment Opportunity Certification – Attachment C
   d. Non-Collusion Oath – Attachment D
   e. Good Faith Affidavit – Attachment E

Presentations

Presentations from the top-ranked respondents may be requested at the Town's discretion if the Town is unable to determine an awardee based on proposal alone.

Terms and Conditions

The Town reserves the right to accept or reject any or all proposals, with or without cause, to waive technicalities, or to accept the proposal which, in its sole judgment, best serves the interest of the Town, or to award a contract to the next most qualified proposer if the successful offer fails to execute a contract within (10) days of approval by the Town.

The Town reserves the right to request clarification of information submitted and to request additional information of one or more Respondents.

Any proposal may be withdrawn until the date and time set above for the submission of the proposals. Any proposal not so withdrawn shall constitute an irrevocable offer, for a period of thirty (30) days, to provide to the Town the services set forth in this RFP, or until one or more of the Respondents have been awarded.

Costs of preparation of a response to this request for proposals are solely those of the proposer. The Town assumes no responsibility for any such costs incurred by the proposer. The proposer also agrees that the Town bears no responsibility for any costs associated with any administrative or judicial proceedings resulting from the solicitation process.

The contractor awarded this contract shall maintain adequate records to justify all charges, expenses, and costs incurred in estimating and performing the work for at least five (5) years after completion of the contract resulting from this RFP. The Town shall have access to all records, documents and information collected and/or maintained by others in the course of the administration of the agreement. This information shall be made accessible at the awardees place of business to the Town, for purposes of inspection, reproduction and audit without restriction.

Attachments and Exhibits:

Attachment A – Contract Agreement for Park Avenue Drainage Improvements

- **Exhibit A to Attachment A** – Respondent's Response to the RFP
- **Exhibit B to Attachment A** – Scope of Work
- **Exhibit C to Attachment A** – Quote

Attachment B -- Drug Free Workplace Certification
Attachment C – Equal Employment Opportunity Certification
Attachment D – Non-Collusion Oath
Attachment E – Good Faith Affidavit

ATTACHMENT A

CONTRACT AGREEMENT

RFP #2019-05 Park Avenue Drainage Improvements

AGREEMENT FOR PARK AVENUE DRAINAGE IMPROVEMENTS
between
THE TOWN OF WINDERMERE
and

_____

This Agreement is dated _____(the "Effective Date") and is between the **Town of Windermere, Florida,** a municipal corporation chartered and operating under the laws of the State of Florida (the "Town"), and _____, (the "Contractor").

The Town issued **RFP #2019-05 Park Avenue Drainage Improvements** (the "RFP"), pursuant to which the Town has selected the Contractor to perform some or all of the services set forth in the RFP.

The Town and the Contractor therefore agree as follows:

1. **Scope of Services; Agreement Documents.**

a. The Contractor shall diligently and timely perform the Scope of Services requested by the Town in **Exhibit B** under the terms of this Agreement and the Exhibits hereto. The Town may request changes or amendments to the Scope of Services. Such changes will not be binding unless mutually agreed to in writing and signed by the Town and the Contractor.

b. This Agreement, together with **Exhibits A-C** attached hereto and all of which are incorporated herein by this reference, shall comprise the entire Agreement. This Agreement and the following attachments shall together be referred to as the "Agreement Documents":

- **Exhibit A** – Contractor's Response to the RFP
- **Exhibit B** – Scope of Work
- **Exhibit C** -- Quote

Upon discovery the Town or the Contractor shall promptly notify the other in writing of any conflicts, ambiguities, inconsistencies, errors, or omissions in, between or among any of Agreement Documents and shall cooperate in effecting a resolution. In the event the parties

disagree regarding the resolution, the Town shall make the final determination regarding which document and which terms and conditions govern.

2. **Term**. The initial term of this Agreement shall be for Ninety (90) days, beginning on the Effective Date. This Agreement may, by mutual written agreement of the parties, be extended.

3. **Payment**. The Contractor is to provide with each invoice submitted to the Town, a detailed daily description of all work occurred - separated in an electronic format capable of saving and sending in a common electronic means, i.e., excel spreadsheet. All invoices received by the Town are payable within thirty days from the date of receipt, provided they have first been approved by the Town Manager or his designee. The amount of payment shall be based on the approved quote/bid sheet attached hereto as **Exhibit C**.

4. **Taxes**. The Contractor shall pay all federal, state, and local taxes, to include sales tax, social security, workman's compensation, unemployment insurance, and other required taxes which may be chargeable against labor, material, equipment, real estate and any other items necessary to and in the performance of this Agreement.

5. **Termination for Convenience**. The Town may for any reason whatsoever terminate this Agreement upon ten days written notice to the Contractor. In the event of termination, the Contractor shall cease work and shall deliver to the Town all documents, including reports, surveys, plans, tracings, specifications, and all other data and material prepared or obtained by the Contractor in connection with this Agreement. The Town shall, upon delivery of the aforesaid documents, pay the Contractor for work completed through the date of termination and which is approved by the Town. Payment for work completed will constitute payment in full for services performed by Contractor.

6. **Indemnification and Limitation of Liability**.

a. The Contractor shall defend, indemnify, and hold harmless the Town, its officers, directors, agents, contractors, employees, and council members from and against all claims, damages, losses, and expenses, (including but not limited to fees and charges of attorneys or other professionals and court and arbitration or other dispute resolution costs) arising out of or resulting from: (i) the performance of services by the Contractor or any person or organization directly or indirectly employed by the Contractor to perform or furnish any of the services or anyone for whose acts any of them may be liable, (ii) breach of the terms of this Agreement by the Contractor or any person or organization directly or indirectly employed by the Contractor to perform or furnish any of the services or anyone for whose acts any of them may be liable, (iii) violations of applicable law by any person or organization directly or indirectly employed by the Contractor to perform or furnish any of the services or anyone for whose acts any of them may be liable, (iv) disease or death of third parties (including Town employees and agents and those of the Contractor), or (v) damage to property to the extent attributable to the negligence or willful misconduct of the Contractor or any person or organization directly or indirectly employed by the Contractor to perform or furnish any of the services or anyone for whose acts any of them may be liable.

b. The Contractor expressly waives all claims against the Town, and its officers, directors, agents, contractors, employees, and council members for any loss, damage, personal injury or death occurring as a consequence of the Contractor's activities or the performance of services under this Agreement.

c. In no event shall the Town be liable to the Contractor for indirect, special, or consequential damages, including, but not limited to, loss of revenue, loss of profit, cost of capital, or loss of opportunity regardless of whether such liability arises out of contract, tort (including negligence), strict liability, or otherwise.

d. The Town shall not assume any liability for the acts, omissions, or negligence of the Contractor its agents, servants, employees, or subcontractors. In all instances, the Contractor shall be responsible for any injury or property damage resulting from any activities conducted by the Contractor.

e. The Town's limits of liability are set forth in Section 768.28 of the Florida Statutes, and nothing herein shall be construed to extend the liabilities of the Town beyond that provided in Section 768.28 of the Florida Statutes. Nothing herein is intended as a waiver of Town's sovereign immunity under Section 768.28 of the Florida Statutes. Nothing hereby shall inure to the benefit of any third party for any purpose, including but not limited to anything which might allow claims otherwise barred by sovereign immunity or operation of law.

7. **Insurance.**

a. The Contractor shall, at its expense, procure and maintain during the term of this Agreement insurance approved by Town of the following types or such other insurance as the Town may require from time to time:

(1) **Worker's Compensation:** statutory benefits, as required by law.
(2) **Employer's Liability**: limits of One Hundred Thousand Dollars ($100,000) bodily injury by accident, injury and disease, and a Five Hundred Thousand Dollar ($500,000) policy aggregate limit.
(3) **Comprehensive General Liability:** in an amount of at least One Million Dollars ($1,000,000.00) for injuries, including but not limited to wrongful and accidental death per person and Five Million Dollars ($5,000,000.00) for any one accident, and property damage insurance in an amount of at least One Million Dollars ($1,000,000.00).
(4) **Comprehensive Automobile Liability:** in an amount of at least One Million Dollars ($1,000,000.00) bodily injury for each person and Five Million Dollars ($5,000,000.00) for each occurrence and One Million Dollars ($1,000,000.00) Property Damage for each accident.
(5) **Professional Liability/Errors and Omissions:** One Million Dollars ($1,000,000.00), with a maximum deductible of One Hundred Thousand Dollars ($100,000.00). The errors and omissions policy shall be in effect and shall insurance against the Consultant's negligent acts, errors or omissions relating to the services performed under this Agreement.

Consultant shall include the Town as an additional insured under the policy terms and conditions.

b. On or before the Effective Date, the Contractor shall furnish the Town certificates of insurance evidencing compliance with the coverage requirements in this section and allowing thirty days written notice of any change, cancellation, or non-renewal. The certificates must contain the following words: *"Should any of the above described policies be canceled before the expiration date, the issuing company will mail a thirty day notice to the certificate holder named herein."* Thereafter the Contractor shall provide, annually, certificates evidencing that such insurance remains in effect to the extent required under this Agreement.

8. **Compliance with Federal, State, and Local Laws**. The Contractor shall comply with all applicable federal, state, and local laws and ordinances.

9. **Ownership of Documents.** All documents, including detailed reports, plans, original tracings, specifications, and all other data, prepared or obtained by the Contractor in connection with the services hereunder shall be delivered to, and shall become the property of the Town prior to the final payment to or upon completion of work by the Contractor.

10. **Public Records.** To the extent Contractor is acting on behalf of the Town as provided under Subsection 119.011(2) of the Florida Statutes, Contractor shall:

(1) Keep and maintain public records required by the Town to perform the services under this Agreement.
(2) Upon request from the Town's custodian of public records, provide the Town with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Chapter 119 of the Florida Statutes or otherwise provided by law.
(3) Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the Agreement term and following completion of the Agreement if the Contractor does not transfer the records to the Town.
(4) Upon completion of the Agreement, transfer, at no cost, to the Town all public records in possession of Contractor or keep and maintain public records required by the Town to perform the service. If the Contractor transfers all public records to the Town upon completion of the Agreement, the Contractor shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the Contractor keeps and maintains public records upon completion of the Agreement, the Contractor shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the Town, upon request from the Town's custodian of public records, in a format that is compatible with the information technology systems of the Town.

b. If the Contractor fails to provide the public records to the Town within a reasonable time the Contractor may be subject to penalties under Section 119.10 of the Florida Statutes. Further, the Town may exercise any remedies at law or in equity, including, without limitation, the right to (i) impose sanctions and assess financial consequences, (ii) withhold and/or reduce payment, and (iii) terminate this Agreement in accordance with the terms hereof.

c. **IF THE CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONTRACTOR'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS AGREEMENT, CONTACT THE TOWN'S CUSTODIAN OF PUBLIC RECORDS AT (407-876-2563 X 5323, DBURKHALTER@TOWN.WINDERMERE.FL.US, 614 MAIN STREET, WINDERMERE, FLORIDA 34786.**

11. **Ambiguities**. Both parties have been allowed equal input regarding the terms and wording of this Agreement and have had the benefit of consultation with legal counsel prior to its execution, such that all language herein shall be construed equally against the parties, and no language shall be construed strictly against its drafter.

12. **Headings**. The headings or captions of sections or paragraphs used in this Agreement are for convenience of reference only and are not intended to define or limit their contents, nor are they to affect the construction of or to be taken into consideration in interpreting this Agreement.

13. **Modification; Waiver**. No provision of this Agreement may be modified, waived, or discharged unless that modification, waiver, or discharge is agreed to in writing singed by both parties, and if necessary, approved by the Town Council of the Town of Windermere. No waiver by either party of any breach of this Agreement by the other party will constitute a waiver of any other breach occurring at the same time or before or after.

14. **Severability**. If any provision of this Agreement is found by a court of competent jurisdiction to be invalid or unenforceable to any extent, the remainder of this Agreement shall not be affected thereby and shall remain enforceable to the greatest extent permitted by law.

15. **Governing Law; Venue**. This Agreement shall be governed by and construed in accordance with laws of the State of Florida, and venue for any action arising out of or related to this Agreement shall be in the Circuit Court for the Ninth Judicial Circuit in Orange County, Florida.

16. **Entire Agreement**. This Agreement contains the entire agreement of the parties with respect to the services to be performed under the RFP. Previous agreements and understandings of the parties with respect to such matters are null and void and of no effect.

17. **Notices**.

a. For a notice, or other communication, under this Agreement to be valid, it must be in writing and signed by the sending party, and the sending party must use one of the following methods of delivery: (1) personal delivery; (2) registered or certified mail, in each case return receipt requested and postage prepaid; and (3) nationally recognized overnight courier, with all fees prepaid. Delivery via facsimile, or email, is also permitted provided it is followed by delivery via one of methods (1)-(3) above and any such delivery via facsimile or email shall not be deemed to have been received pursuant to subsection 17.c. until such delivery pursuant to methods (1)-(3) above shall be deemed to have been received pursuant to Section 17.c.

b. For a notice, or other communication, under this Agreement to be valid, it must be addressed to the receiving party at the addresses listed below for the receiving party, or to any other address designated by the receiving party in a notice in accordance with this Section 17.

As to Town:

Town of Windermere
Robert Smith, Town Manager
Town of Windermere
614 Main Street
Windermere, Florida 34786
rsmith@town.windermere.fl.us
407-876-2563 x 5324

As to Contractor:

c. Subject to Section 17.d., a valid notice or other communication under this Agreement is effective when received by the receiving party. A notice, or other communication, is deemed to have been received as follows:

(1) if it is delivered in person, or sent by registered or certified mail, or by nationally recognized overnight courier, upon receipt as indicated by the date on the signed receipt; and

(2) if the receiving party rejects or otherwise refuses to accept it, or if it cannot be delivered because of a change in address for which notice was not given, then upon that rejection, refusal, or inability to deliver.

d. If a notice or other communication is received after 5:00 p.m. on a business day at the location specified in the address for the receiving party, or on a day that is not a business day, then the notice is deemed received at 9:00 a.m. on the next business day.

e. Any notice requiring prompt action shall be contemporaneously sent by facsimile transmission or electronic mail.

18. **Assignability**. The Contractor shall not assign any interest in this Agreement, and shall not transfer any interest in same, whether by assignment or novation, without the prior written approval of the Town.

19. **Independent Contractor**. The Contractor is and shall remain an independent contractor and not an employee of the Town.

Authorized parties are signing this Agreement as of the Effective Date stated in the introductory clause.

Town of Windermere:	_____:
By: _____	By: _____
Name: Robert Smith	Name:
Title: Town Manager	Title:

EXHIBIT A TO ATTACHMENT A

CONTRACTOR'S RESPONSE

RFP #2019-05 Park Avenue Drainage Improvements

Barracuda Building Corporation

Completed Projects 04/28/2015

PROJECT NAME	OWNER	CONTACT NAME	PHONE	FAX	AMOUNT	COMPLETE	DESCRIPTION
East Indiana Streetscape	City of DeLand 336 W. Michigan Ave. DeLand, FL 32720	Keith Riger rigerk@deland.org	386-626-7191	386-736-5366	$413,000	2003	Demolition, storm drainage, electrical, concrete paving, asphalt paving.
Lynx Rosewood Way Transfer	Central FL Transit Authority 455 N. Garland St Orlando, FL 32801	Rick Sparer AECOM richard.sparer@aecom.com	407-284-4840	407-284-4855	$77,000	2003	Demolition, electrical, concrete paving, landscaping, bus shelters.
Gateway Park Wall Replacement	City of DeBary 137 S Hwy 17-92, DeBary, FL 32713	Maryann Courson	386-668-2040	386-668-4122	$155,000	2004	Demolition, land clearing, concrete work, masonry, misc. steel, landscaping.
Pond 2 Retrofit Improvements	City of DeBary 137 S Hwy 17-92 DeBary, FL 32713	Maryann Courson	386-668-2040	386-668-4122	$279,000	2004	Land clearing, storm drainage, grading, landscaping, irrigation.
Horizon Court	City of Belle Isle 1600 Nela Ave Belle Isle, FL 32809	Steve Gillis	407-851-7730	407-240-2222	$106,000	2004	Demolition, storm drainage, grading, landscaping.
Magnolia Park Pavilion	Orange County Florida 450 E South St. Orlando, FL 32801	John Connell	407-836-6200	407-836-6210	$78,000	2005	Land clearing, picnic shelter, concrete work, landscaping.
Belle Isle Clock Tower	City of Belle Isle 1600 Nela Ave. Belle Isle, FL	Steve Gillis	407-851-7730	407-240-2222	$40,000	2005	Concrete work, clock tower, electrical, demolition, landscaping.
Starke Elementary School Parking Lots	Volusia County Schools 3750 Olson Dr Daytona Beach, FL 32124	Chris Libutti	386-947-8786	386-947-5847	$225,000	2006	Land clearing, concrete paving, grading, asphalt paving, landscaping, storm drainage.
1743 Wind Harbor Road	City of Belle Isle 1600 Nela Ave Belle Isle, FL 32809	Steve Gillis	407-851-7730	407-240-2222	$26,000	2005	Stormwater Piping, Asphalt Paving
3121 Cullen Lake Shore Drive	City of Belle Isle 1600 Nela Ave. Belle Isle, FL 32809	Steve Billis	407-851-7730	407-240-2222	$55,000	2005	Stormwater Piping
DeLand Parking Lots 1 & 2	City of DeLand 336 W. Michigan Ave. DeLand, FL 32720	Keith Riger rigerk@deland.org	386-740-5813	386-740-6868	$344,000	2006	Demolition, Stormwater Piping, Asphalt Paving, Concrete

PROJECT NAME	OWNER	CONTACT NAME	PHONE	FAX	AMOUNT	COMPLETE	DESCRIPTION
Madison Street Sidewalks	Town of Astatula 25019 CR 561 Astatula, FL 34705	Maria Montalvo	352-742-0781	352-742-1970	$82,000	2005	Land clearing, concrete work, landscaping.
Montverde Sidewalks	Town of Montverde P.O. Box 56008 Montverde, FL 34756	Dale Heathman	407-469-2681	407-469-2773	$118,000	2006	Land clearing, concrete work, landscaping.
City of Belle Isle Maintenance Projects	City of Belle Isle 1600 Nela Ave Belle Isle, FL 32809	Steve Gillis	407-851-7730	407-240-2222	$490,000	2004	Demolition, concrete work, storm drainage, grading, landscaping, asphalt paving.
City of Debary Streetscaping	City of DeBary 137 S Hwy 17-92 DeBary, FL 32713	Maryann Courson	386-668-2040	386-668-4122	$60,000	2004	Asphalt Street printing.
FDOT Entryway	Florida Dept of Transportation District Construction Engr. 719 W. Woodland Blvd. DeLand, FL 32720	David Schappel	386-740-3410	386-736-5292	$24,000	2006	Demolition, limerock base, concrete work, grading, landscaping.
Lynx Parking Lot	Central Fl Transit Authority 455 N. Garland St Orlando, FL 32801	Rick Sparer AECOM richard.sparer@aecom.com	407-284-4840	407-284-4855	$31,000	2006	Grading, gravel parking lot.
Lynx Princeton Asphalt Repairs	Central FL Transit Authority 455 N. Garland St. Orlando, FL 32801	Rick Sparer AECOM richard.sparer@aecom.com	407-284-4840	407-284-4855	$90,000	2006	Grading, Asphalt paving.
Pennsylvania Avenue - Goodwin Street	City of Lake Helen P.O. Box 39 Lake Helen, FL 32774	Don Findell	386-228-2121	386-228-9714	$258,000	2006	Demolition, asphalt paving, misc. steel, grading, storm drainage, concrete paving.
Sickler Drive Stabilization	City of Daytona Beach 301 S. Ridgewood Daytona Beach, FL 32114	Robert DeWitt	386-671-8614	386-671-8695	$120,000	2006	Demolition, asphalt paving, concrete work, landscaping, irrigation.
Spring Hill Streetscape	City of DeLand 336 W. Michigan Ave. DeLand, FL 32720	Keith Riger rigerk@deland.org	386-740-5813	386-740-6868	$150,000	2006	Demolition, Concrete Sidewalks, Irrigation, Landscaping, Asphalt Paving, Street Printing.
Frances Drive Stormwater	City of Edgewater 1301 S. Ridgewood Ave. Edgewater, FL 32132	Brenda Johnson	386-424-2476	386-424-2480	$115,000	2007	Grading, Stormwater, Demo, Landscaping.
2006 Central Park Trails Phase 2	City of Ormond Beach 22 S. Beach St. Ormond Beach, FL 32174	Paul McDonald	386-676-3296	386-676-3304	$140,000	2007	Asphalt Paving, Concrete, Site Amenities, Grading.
J.L. Rowe Memorial Park Phase II&	City of Coleman	David Hodges	904-278-0030	904-278-0840	$340,000	2007	Demo, Site Amenities, Basketball Courts,

PROJECT NAME	OWNER	CONTACT NAME	PHONE	FAX	AMOUNT	COMPLETE	DESCRIPTION
Dunklin-Riser Park Phase III	P.O. Box 456 Coleman, FL 33521	dhodges@mittauer.com					Metal Shelters, Concrete Paving
Hoffner Avenue Storm Drainage	City of Belle Isle 1600 Nela Ave. Belle Isle, FL 32809	Steve Gillis	407-851-7730	407-240-2222	$313,000	2007	Storm Drainage, Grading, Excavation, Asphalt Paving, Landscaping
Parkvue @ Kissimmee City Centre	Kissimmee City Centre, LLC 117 Broadway Ave. Kissimmee, FL 34741	JW Longman jwlsenior@fairpoint.net	407-478-4500	407-478-4501	$715,000	2007	Demo, All site Utilities, Asphalt Paving, Excavation, Site Grading
Mount Dora Fire Station #2	City of Mount Dora 1300 N. Donnelly St. Mt. Dora, FL 32757	John Bruce brucej@ci.mounit-dora.fl.us	352-735-7176	352-735-4789	$248,000	2007	Sanitary Lift Station, Water Piping, Storm Drainage, Concrete Paving, Excavation, Asphalt Paving
CRA Sidewalks	City of Crescent City 115 N Summit St. Crescent City, FL 32112	David Hodges dhodges@mittauer.com	904-278-0030	904-278-0840	$71,000	2007	Demo, Concrete Sidewalks & Curbs, Asphalt Paving, Sodding
Banchory Road Exfiltration System	City of Winter Park 401 Park Ave S Winter Park, FL 32789	Joe Serrano	407-599-3233	407-599-3417	$305,000	2007	Demo, Storm Drainage, Road Base, Concrete Curbs, Sidewalks
Canadian Court	Orange County, FL Orange County Public Works 4200 S. John Young Pkwy Orlando, FL 32837	Frank Yokiel	407-836-8024	407-836-8024	$68,500	2008	Transport & Install Lynx Bus Shelters
North Park	City of Crescent City 115 N Summit St. Crescent City, FL 32112	David Hodges dhodges@mittauer.com	904-278-0030	904-278-0840	$179,000	2008	Site Amenities, Basketball Courts, Metal Shelter, Asphalt Paving
Water Plant Park	City of Crescent City 115 N Summit St. Crescent City, FL 32112	David Hodges dhodges@mittauer.com	904-278-0030	904-278-0840	$193,400	2008	Fishing Pier, Picnic Shelter, Restroom Renovation, Underground Utilities
Northshore Marina Stabilization	City of Sanford 300 N Park Ave. Sanford, FL 32771	Fred Mueller	407-314-8262	407-330-5601	$164,900	2008	Excavation, Storm Water, Horiz. Drilling, Landscaping, irrigation, Grading
Spreading Oaks Stormwater	City of Deltona 2345 Providence Blvd. Deltona, FL 32725	Brian Boehs bboehs@deltonafl.gov	386-561-2200	386-878-8571	$165,639	2008	Stormwater, Grading, Concrete Paving, Demo, Asphalt Paving
WDW Hilton	WDW Hilton Hotel	Sandy Van Leen	877-977-9292	301-258-9289	$63,000	2008	Demo, Concrete walks/curbs, asphalt, misc. steel erection
Central Florida Family Health Center	Central FL Family Health Ctr 2400 SR 415 Sanford, FL 32771	Irene Boyles iboyles@cphcorp.com	407-322-6841	407-330-0639	$490,000	2009	Clearing, Grading, Lift Station, Electrical, Asphalt Paving, Storm Drainage, Excavation, Water Piping

PROJECT NAME	OWNER	CONTACT NAME	PHONE	FAX	AMOUNT	COMPLETE	DESCRIPTION
Ocoee-Apopka Sidewalk Improvements	Orange County 4200 S John Young Pkwy Orlando, FL 32839	Julie Naditz	407-836-5635	407-836-5899	$180,000	2008	Demo, Storm Drain, Grading, Clearing, Concrete Sidewalks, Sodding, Electrical, Handrails, Asphalt Paving
Belle Isle Drainage Phase 2	City of Belle Isle 1600 Nela Ave. Belle Isle, FL 32809	Steven Gillis	407-260-2292	407-260-1193	330,000	2009	Demo, Storm Drainage, Concrete walls, Paving, Sodding, Dewatering
WDW Doubletree	WPS 7609-E Airpark Rd Gaithersburg, MD 20879	Garret Coleman	877-977-9292	301-258-9289	$26,000	2009	Demo, Concrete Curbs & Slabs, Asphalt Paving
7th Ave & 8th Ave Stormwater	Town of Windermere 614 Main Windermere, FL 34786	John Fitzgibbon jpfds@cfl.rr.com	407-383-3397	407-876-0103	$201,500	2009	Storm Piping, Grading, Asphalt Paving, Concrete Sidewalks, Demo, Landscaping
Thompson Creek Rd Improvements	City of Ormond Beach 22 S. Beach St. Ormond Beach, FL 32174	Larry Rivera	386-676-3269	386-676-3304	$150,000	2009	Demo, Brick Paving, Concrete Sidewalks, Stonework, Electrical, Asphalt Paving
Bougainvillea, Marsella, & Jasmine Stormwater & Utility Adjustments	City of DeBary 137 S Hwy 17-92 DeBary, FL 32713	Kevin Hare	386-668-2040	386-668-4122	$670,000	2009	Storm Drain, Water Piping, Demo, Grading, Concrete Sidewalks & Paving, Sodding
CR 452 & Fish Camp Road	Lake County 437 Ardice Ave. Eustis, FL 32727	Sherry McDermott	352-483-9020	352-483-9025	$218,000	2009	Asphalt Milling & Paving, Grading, Demo, Excavation, Concrete Curbing, Sodding
Lake Berry Stormwater Improvements	City of Winter Park 401 Park Ave S., Winter Park, FL 32789	Lena Peterson	407-599-3225	407-599-3417	$336,000	2009	Soil Cement Base, Concrete Sidewalks & Curbs, Water & Storm Drain Piping, Demo
Renee Terrace Storm Drainage	City of Kissimmee 101 N. Church St., Suite 301 Kissimmee, FL 34741	John Tulak jtulak@kissimmee.org	407-518-2170	407-518-2165	$790,000	2010	Demo, Asphalt Paving, Concrete Curbs, Storm Drainage, Water Piping, Sodding, Grading
East Orange Community Center	Orange County 2012 E. Michigan St. Orlando, FL 32806	Mark Adams	407-836-6561	407-836-7299	$167,300	2010	Demo, Asphalt Paving & Base, Concrete Sidewalk & Curbs, Storm Drain Piping, Grading
1st & 12th Stor Drainage Improvement	Town of Windermere 614 Main St. Winderemere, FL 34786	John Fitzgibbon jpfds@cfl.rr.com	407-383-3397	407-876-0103	$240,000	2010	Storm Drainage, Sodding, Demo, Grading
Central Park Improvements	City of Ocoee 150 N. Lakeshore Dr. Ocoee, FL 34761	Al Butler jabutler@ci.ocoee.fl.us	407-905-3100 Ext.1543	407-656-7835	$107,000	2010	Demo, Asphalt Paving & Base, Concrete Sidewalks & Curbs, Sodding, Volley Ball Courts
South Summit Storm Drainage PH 2	City of Lake Helen PO Box 39 Lake Helen, FL 32744	Don Findell	386-228-2121	386-228-9714	$80,000	2010	Demo, Asphalt Paving, Strom Drainage, Sod, Curbs

PROJECT NAME	OWNER	CONTACT NAME	PHONE	FAX	AMOUNT	COMPLETE	DESCRIPTION
LYNX 4 Bus Pullout	Central FL Transit Authority 455 N. Garland Ave. Orlando, FL 32801-1510	Rick Sparer AECOM richard.sparer@aecom.com	407-284-4840	407-284-4855	$126,000	2010	Demo, Concrete Paving & Curbs, Grading, Bus Shelters, Electrical, Landscaping, Sodding
Belle Isle Emergency Repair	City of Belle Isle 1600 Nela Ave. Belle Isle, FL 32809	Steve Gillis	407-260-2292	407-260-1193	$48,000	2010	Demo, Storm Pipe, Grading
Belle Isle Landings	City of Belle isle 1600 Nela Ave. Belle isle, FL 32809	Steve Gillis	407-260-2292	407-260-1193	$16,000	2010	Demo, Storm Pipe, Grading, Sod
8th & Main Stormwater Improvements	Town of Windermere 614 Main Windermere,FL34786	John Fitzgibbon jpfds@cfl.rr.com	407-383-3397	407-876-0103	$65,000	2009	Demo,Storm Drain Piping,Asphalt Paving, Base Sodding, Concrete, Sidewalks & Curbs
LYNX Passenger Amenities	Central Fl Transit Authority 455 N. Garland St. Orlando, FL 32801	Jeff Reine JReine@golynx.com	407-254-6046	407-254-6308	$2,200,000	2008	Bus Shelters, Concrete, Demo, Electrical, Lightning Protection, Landscaping, grading, Carpentry, Railing
Eastern Shores Stormwater Improvemer	City of Edgewater 1301 S. Ridgewood Ave Edgewater, FL 32132	Brenda Johnson	386-424-2476	386-424-2480	$577,000	2010	Demo, Storm Drain Piping, Asphalt Paving & Base, Sodding
Mitchell Hammock Rd Storm Drainage Improvements	City of Oviedo 400 Alexandria Blvd Oviedo, FL 32765	Sophia Liatsos sliatsos@cityofoviedo.net	407-971-5641	407-971-5822	$184,000	2011	Demo,Grading,Storm Drain Piping,Concrete Curb, Base,Asphalt Paving,Sodding,Pavement Markings
Vignetti Park Sidewalks	City of Ocoee 150 N. Lakeshore Dr. Ocoee, FL 34761	Al Butler jabutler@ci.ocoee.fl.us	407-905-3100 Ext.1543	407-656-7835	$13,000	2011	Sidewalk Construction
LYNX Bus Shelter Installation	Central Fl Transit Authority 455 N. Garland St. Orlando, FL 32801	Jeff Reine JReine@golynx.com	407-254-6046	407-254-6308	$3,000,000	2013	Bus Shelters, Concrete, Demo, Electrical, Lightning Protection, Landscaping, grading, Carpentry, Railing
Blackwood Ave Streetscape	City of Ocoee 150 N. Lakeshore Dr. Ocoee, FL 34761	Al Butler jabutler@ci.ocoee.fl.us	407-905-3100 Ext.1543	407-656-7835	$145,000	2011	Demo, Brick Pavers, Concrete Sidewalks & Curbs, Clearing, Landscaping, Storm Drainage, Concrete Footings
Parsons Bldg Renovation	City of Kissimmee 101 N. Church St., Suite 301 Kissimmee, FL 34741	John Tulak jtulak@kissimmee.org	407-518-2170	407-518-2165	$105,000	2003	Demolition, Electrical, Plumbing, HVAC, Drywall, Carpentry, Windows, Doors, Painting, Flooring, Tile, Roofing concrete, Masonry
Master Agreeement	City of Belle Isle, FL. 1600 Nela Ave. Belle Isle, FL 32809	Steve Gillis	407-851-7730	407-240-2222	$500,000	2012	General site work
Walker Elementary School Sidewalks	Seminole County	Jacqui Perry	407-665-7114	407-665-7956	$138,000	2012	Sidewalks, grading, asphalt paving, storm drain

PROJECT NAME	OWNER	CONTACT NAME	PHONE	FAX	AMOUNT	COMPLETE	DESCRIPTION
	1301 E. Second St. Sanford, FL 32771	jperry02@seminolecountyfl.gov					piping, sodding, demo
South Summit Ave. Paving Phase 3	City of Lake Helen, FL 327 S. Lakeview Dr. Lake Helen, FL 32774	Don Findell	386-228-2121	386-228-9714	$112,000	2012	Clearing, demo, road base & asphalt paving, concrete curbs, grading, sodding
Cloverleaf Stormwater Improvements	City of Deltona Public Works Division 255 Enterprise Rd. Deltona, FL 32725	Brian Boehs bboehs@deltonafl.gov	386-878-8655	386-878-8971	$302,000	2012	Demo, Stormwater piping, grading, concrete sidewalks, paving & curbs, asphalt paving, sodding
Ocoee Police Sign	City of Ocoee 150 N. Lakeshore Dr. Ocoee, FL 34761	Al Butler jabutler@ci.ocoee.fl.us	407-905-3100 Ext. 1543	407-656-7835	$20,000	2012	Excavation, concrete footings, brickwork, electrical, signage
Thistle Lane Calming Devices	City of Maitland Public Works Dept. 1827 Fennel St. Maitland, FL 32751	Charlie Wallace cwallace@itsmymaitland.com	407-539-6252	407-660-1677	$93,500	2012	Demo, grading, asphalt paving, curbs, sidewalks, horizontial boring, landscaping
Todd Way Rebuild	City of Tavares 201 East Main St. Tavares, FL 32778	John Rumble	352-742-6400	352-742-6351	$35,500	2013	Demo, grading, asphalt paving, curbs, sidewalks, sodding
Kraft/Bluefield Area SW Improvements	City of Deltona 255 Enterprise Rd. Deltona, FL 32725	Brian Boehs bboehs@deltonafl.gov	386-878-8955	386-878-8971	$84,000	2012	Earthwork, grading, sodding, clearing grubbing
Ocoee/Maguier Barrier Wall	City of Ocoee 150 N. Lankshore Dr. Ocoee, FL 34761	Al Butler jabutler@ci.ocoee.fl.us	407-905-3100 Ext. 1543	407-656-7385	$4,000	2012	Concrete Barrier wall replacement
Gary Wichrowski Office Bldg	Gary Wichrowski 1862 Eagles Point Apopka, FL 32712	Gary Wichrowski	407-889-4370		$10,000	2013	Parking lot demo & replacement
Aulin Ave. Roadway Improvement	City of Oviedo 400 Alexandria Blvd. Oviedo, FL 32765	David Waller dwaller@cityofoviedo.net	407-782-8001	407-971-5808	$582,000	2013	Concrete sidewalks, curbs, water lines, storm piping, asphalt paving, demolition, sodding, pavement markings
Upsala Road Improvements	City of Sanford 300 No Park Ave. Sanford, FL 32771	Paul Moore paul.moore@sanfordfl.gov	407-688-5000	407-330-6939	$208,000	2013	Water lines, Force mains, site preparation, paving, sidewalks.
Holston Drive Drainage Imp.	City of Deltona 255 Enterprise Rd. Deltona, FL 32725	Brian Boehs bboehs@deltonafl.gov	386-878-8955	386-878-8971	$70,121	2013	Grading, Storm Piping, Asphalt Paving, Concrete Drives & Sidewalks
Town Hall Handicap Ramp	Town of Windermere 614 Main St. Windermere. FL 34786	Dave Grimm dgrimm@town.windermere.fl.us	407-876-2563 Ext.25	407-876-0103	$20,000	2013	Demo, install new ramp, railing remove existing shrubs

PROJECT NAME	OWNER	CONTACT NAME	PHONE	FAX	AMOUNT	COMPLETE	DESCRIPTION
Morton Lane Drainage Improvements	City of Winter Springs 1126 E. State Road 434 Winter Springs, FL 32708	Brian Fields bfields@winterspringsfl.org	407-327-7597 Cell 321-388-2757	407-327-6588	$32,204	2013	Demo, storm pipe, clearing, grubbing earthwork, tree removals, storm structures, erosion control facilities, site restoration, sodding
Lake Catherine Drive Paving	City of Maitland 1827 Fennell St. Maitland, FL 32751	Charlie Wallace cwallace@itsmymaitland.com	407-539-6217	407-539-6282	$95,000	2013	Demo, grading, soil cement, reinforce concrete, brick pavers, exfilitration
TECO Driver Training Asphalt Resurfacing	Osceola School District City of Kissimmee 817 Bill Beck Blvd Kissimmee, FL 34744-4492	Mark Scheuer scheuerm@osceola.k12.fl.us	407-518-2979	407-870-4618	$193,000	2013	Asphalt removal, saw cut asphalt paving, remove & dispose grass, strip topsoil, grading,sodding.
Maguire Road Ditch Improvements	City of Ocoee 150 N. Lakeshore Dr. Ocoee, FL 34761	Richard Campanele richard.campanele@ci.ocoee.fl.us	407-905-3170	407-905-3176	$125,458	2014	Excavation, storm pipe, grading, clearing area, sodding
West Canal Parking Lot	City of New Smyrna Beach 210 Sams Ave. New Smyrna Beach, FL	Kyle Fegley kfegley@cityofnsb.com	386-424-2168	386-427-2148	$197,000	2013	Demo, Grading, Electrical, Concrete Curb & Sidewalks, Asphalt Paving, Landscaping & Irrigation
Admin. Complex Parking Paving	Osceola School District City of Kissimmee 809 Bill Beck Blvd Kissimmee, FL 34744-4492	Chris Crowe crowec@osceola.k12.fl.us	407-518-2931	407-518-2985	$82,841	2013	Demo, asphalt paving, replace wheel stops, R&R concrete curbs, fill-in potholes, pavement markings
Buford Shoulder Project	City of Ocoee 301 Maguire Rd Ocoee, FL 34761	Richard Campanale richard.campanele@ci.ocoee.fl.us	407-905-3170	407-905-3176	$18,932	2014	Demo, Asphalt, Crushed Concrete sod, thermoplastic striping
Rhoden Lane & Cory Lane	City of Winter Springs 1126 E. SR 434 Winter Sorings, FL 32708-2799	Zynka Perez zperez@winterspringsfl.org	407-327-5977	407-327-6695	$23,177	2012	Remove 275 ft of 15"x27" pipe & existing structures w/275 ft of 24" ADS N-12 HP pipe & two wall units.
Silvercreek Dr. Shore Rd. Storm Pipe Re	City of Winter Springs 1126 E. SR 434 Winter Springs, FL 32708-2799	Zynka Perez zperez@winterspringsfl.org	407-327-5977	407-327-6695	$13,273	2014	R&R the defective 27 ft of 18" CMP including tree stump embedded in the pipe. Replace w/18" HDPE-ADS N12HP, stablize the creek bank restore and place Bahia sod in the area.
203 Nandina Terrace HOA, Howell Creek Reserve Community Assoc.	City Engieer City of Winter Springs 1126 E. SR 434 Winter Springs, FL 32708-2799	Brian Fields bfields@winterspringsfl.org	407-327-7597 Cell 321-388-2757	407-327-6588	$6,034	2014	Import trunk load of clean fill material fill in washouts & level out embankmant area Install sod, restore areas between street & work area.
Tremain Street Greenway Access Road Trail	City of Mount Dora Purchasing Division 1250 North Highland St. Mount Dora, FL 32757	John Bruce brucej@cityofmountdora.com	352-735-7176	352-735-4789	$373,571	2014	Demo, asphalt paving, trail access, access road, landscaping, brick pavers, concrete curbs

PROJECT NAME	OWNER	CONTACT NAME	PHONE	FAX	AMOUNT	COMPLETE	DESCRIPTION
CR473/Westmont Rd. Turn Lane	Lake County Procurement Services 315 W. Main St. 4th FLR Rm441 Tavares, FL 34788	Susan Dugan sdugan@lakecountyfl.gov Joe Hinton jhinton@lakecountyfl.gov	352-343-9768 352-483-9027	352-343-9473 352-516-7712 Cell	$134,801	2014	Asphalt Milling & concrete, thermoplastic striping, storm pipe & structure installation, driveway construction, roadway signage, sod, & other incidential construction
Howell Creek Northern Way Bridge	City of Winter Springs Howell Creek Reserve 1126 E. State Road 434 Winter Springs, FL 32708-2799	Brian Fields bfields@winterspringsfl.org	407-327-7597 Cell 321-388-2757	407-327-6695		2014	Replacement of a failing stormwater pipe and new retaining wall associated site improvement to repair erosion damages
Howell Creek Spillway Weir Repair	Howell Creek Reserve HOA PO Box 162147 Altamonte Springs, FL 32716	Brian Fields bfields@winterspringsfl.org Michael Meaney mmeaney@cfl.rr.com	407-327-7597 407-977-0282	407-327-6695 407-493-0325		2014	R&R 125 SF concrete sidewalk at entrance to project spread & compact clean fill dirt, install rip rap, grading,clearing, sod, relocate utilities, install barrier wall
Pond 4 Oak Forest Unit 6 Structure Replacement Project	City of Winter Springs 1126 E. State Road 434 Winter Springs, FL 32708-2799	Zynka Perez zperez@winterspringsfl.org	407-327-5977	407-327-6695	$18,000	2015	Erosion control, grading, stabilize pond berm, piping, replace FDOT structure, install endwall and new outfill structure, R&R sod, install geo-fabric for pond berm.
Barrier Wall Ridgewood Project	Town of Windermere 614 Main St. Windermere. FL 34786	Dave Grimm dgrimm@town.windermere.fl.us	407-876-2563 Ext.25	407-876-0103	$6,990	2015	Demo, grading, concrete barrier wall, sodding, install irrigation lines.
Bentley Rd Force Main Phase II	City of Leesburg 204 N. 5th St. Leesburg, FL 34748	Terry Pollard purch@leesburgflorida.gov Mike Thornton	352-728-9880 352-728-9786 Ext.1500	352-326-6618	$139,900	2015	Upgrade a portion of force main to match existing main along Bentley Rd & relocate along 441.
Bolyston St. Stormwater Line Relocation	City of Leesburg 204 N. 5th St. Leesburg, FL 34748	Terry Pollard purch@leesburgflorida.gov	352-728-9880	352-326-6618	$73,900	2015	Relocation of Boylston storm water pipe, storm inlets, manholes, roadway reconstruciton, miscellaneous site work
Bentley Rd Force Main Phase II	City of Leesburg 204 N. 5th St. Leesburg, FL 34748	Terry Pollard purch@leesburgflorida.gov Mike Thornton	352-728-9880 352-728-9786 Ext.1500	352-326-6618	$139,900	2015	Upgrade a portion of force main to match existing main along Bentley Rd & relocate along 441.
Riverside Dr. Drainage Improvements	City of Ormond Beach 22 South Beach St. Ormond Beach, FL 32174		386-676-3223	386-676-3330	$116,185	2015	Drainage improvements and repair on properties along Riverside Dr.

BBC Completed Projects Since 2013

Project Name	Owner	Value	Description
LYNX Bus Shelter Installation	LYNX 455 N Garland Ave Orlando, FL 32801	$3,000,000	Bus shelters, concrete, demo, electrical, lightning protection, landscaping, grading, carpentry, railing
Todd Way Rebuild	City of Tavares 201 E Main St Tavares, FL 32778	$35,000	Demo, grading, asph paving, curbs, sidewalks, sodding
Gary Wichrowski Bldg	Gary Wichrowski 1862 Eagles Point Apopka, FL 32712	$10,000	Parking lot demo & replacement
Aulin Ave Roadway	City of Oviedo 400 Alexander Blvd Oviedo, FL 32765	$582,000	Concrete sidewalks, curbs, water lines, storm lines, asph paving, demo, sodding, pavement markings, asph milling
Upsala Road	City of Sanford 300 N Park Ave Sanford, FL 32771	$208,000	Water lines, force main, grading, asph paving, sidewalks
Holston Dr Drainage Improvements	City of Deltona 255 Enterprise Rd Deltona, FL 32725	$70,121	Grading, storm pipe, asph paving, concrete drives, sidewalks
Maquire Rd Ditch Impr.	City of Ocoee 150 N Lakeshore Ocoee, FL 34761	$125,458	Excavation, grading, storm pipe, clearing, sodding concrete
Buford shoulder project	City of Ocoee 150 N Lakeshore Ocoee, FL 34761	$25,000	Demo, asph paving, crushed conc, pavement markings

Silvercreek Dr storm pipe	City of Winter Springs 1126 E SR 434 Winter Springs, FL 32708	$13,273	Rem & replace defective CMP with HDPE pipe, restore area
Tremain St Greenway Trail	City of Mount Dora 1250 N Highland Mt Dora, FL 32757	$451,000	Demo, asph milling, asph paving, landscaping, brick pavers, curbs, sidewalks
CR473/Westmont Rd Turn lane	Lake County 315 W Main St Tavares, FL 34788	$134,801	Asph milling, asph paving, conc curbs, sidewalks, pavement mkgs, storm pipe, road signs
Howell Creek Northern Way Bridge	City of Winter Springs 1126 E SR 434 Winter Springs, FL 32708	$67,000	Retaining wall, storm pipe, demo conc sidewalk, curbs
Bentley Rd Force main	City of Leesburg 204 N 5th St Leesburg, FL 34748	$139,900	Force main, grading, sodding, demo
Boylston St Stormwater Relocation	City of Leesburg 204 N 5th St Leesburg, FL 34748	$73,900	Storm pipe, grading, sodding, demo
Riverside Dr Drainage Improvements	City of Ormond Beach 22 S Beach St Ormond Beach, FL 32174	$116,185	Storm pipe, demo, asph paving, conc sidewalks, conc drives
Nay & Whittier Ave Water mains	City of Ocoee 150 N Lakeshore Ocoee, FL 34761	$125,000	Water lines, conc curbs, sidewalk asph paving, sodding, demo
2nd Ave & Pine St Storm Drainage Impr.	Town of Windermere 614 Main St Windermere, FL 34768	$137,762	Storm pipe, conc curbs, grading, sodding, demo

Public Works Facility Stormwater	City of Leesburg 204 N 5th St Leesburg, FL 34749	$118,270	Demo, storm pipe, storm box, sodding, asph paving
Lake Sybelia Outfall	City of Maitland 1827 Fennell St Maitland, FL 32751	$193,000	Demo, storm pipe, water pipe, san. pipe, grading, sodding
Fountain Lake Sewer Line Improvements	City of Leesburg 204 N 5th St Leesburg, FL 34749	$70,900	Demo, clearing, grading, san. pipe, sodding, asph paving
Curb & Gutter Impr.	City of Ocoee 150 N Lakeshore Ocoee, FL 34761	$59,000	Demo, conc curb, sidewalks, asph paving, storm pipe, grading
Seminole Ave Rehab.	City of Leesburg 204 5th St Leesburg, FL 34749	$53,000	Demo, storm pipe, conc curb, asph paving, water pipe,
Avante Sewer Line Relo	City of Leesburg 204 N 5th St Leesburg, FL 34797	$174,000	Demo, sodding, road base, grading, conc drives, san pipe
Lynx Bus Shelter Construction	Central FL Transit Authority 455 N Garland St Orlando, FL 32801	$2,800,000	Demo, bus shelters, electrical, grading, sodding, lightning protection, retaining walls Concrete sidewalks & curbs
Ventura Country Club 36" RCP Pipe Repair	Ventura Country 3333 Woodgate Blvd Orlando, FL 32822	$34,000	RCP pipe repair, demo, grading, sodding, desilting of pipe
10th St/Kentucky Ave	City of St Cloud 1300 9th St St Cloud, FL 34769	$173,000	Storm pipe, demo, conc sidewalks, curbs, brick pavers, asph paving, demo, grading, sodding, fencing
Atlantic Ave Stormwater	City of Mascotte 100 East Myers Blvd Mascotte, FL 34753	$27,000	Demo, asph paving, storm pipe, grading, sodding

Barracuda Building Corp
Recent Completed Similar Projects List
Lake Florence Stormwater Bid
2/25/2019

Project Name	Owner	Contact name	Title	Address	Phone	Engineer	Contact name	Title	Address	Phone	Description of work	Contract price
Aulin Ave Roadway Impr	City of Oveido	David Waller	Proj Man	400 Alexandria Blvd Oveido, FL 32765	407-782-8001	VHB	Paul Yeargain	Engineer	225 E Robinson St Suite 300 Orlando, FL 32801	407-839-4006	Demolition, storm water pipe, asphalt milling, asphalt paving, conc sidewalks, curbs, water lines, sod, road striping	$ 582,000
Maguire Rd Ditch Impr	City of Ocoee	Richard Campanele	Proj Eng	150 N Lakeshore Dr Ocoee, FL 34761	407-905-3170	Singhofen & Assoc, Inc.	n/a	n/a	1173 Orpington St Suite 100 Orlabdo, FL 32817	407-679-3001	Demo, storm water pipe, grading, clearing sod, concrete work	$ 125,458
2nd Ave & Pine St Drainage Impr	Town of Windermere	John Fitzgibbon	Proj Man	614 Main St Windermere, FL 34786	407-383-3397	MCG Engineering	Mike Galura	Proj Man	3222 Corrine Dr Orlando, FL 32803	407-493-9983	Asph milling & paving, storm water pipe, sod, grading, conc curb, demo	$ 137,762
Public Works Facility Stormwater	City of Leesburg	Robert Beard	Proj Man	204 N 5th St Leesburg, FL 34748	352-435-9440	Team Engineering, LLC	n/a	n/a	PO Box 560833 Orlando, FL 32806	407-491-1624	Suntree storm box, storm water pipe, asph paving, demo, sod	$ 118,270
10th St & Kentucky Ave Stormwater Impr	City of St Cloud	Kevin Felblinger	Proj Eng	1900 9th St Bldg B 3rd floor St Cloud, FL 34769	407-957-7212	City of St Cloud	n/a	n/a	n/a	n/a	Demo, storm water pipe, Conc sidewalks & curbs, Asph milling & paving, roadway striping, grading	$ 170,000
Catalina & Howland Intersection Improvements	City of Deltona	Scott McGrath	Proj Man	2345 Providence Blvd Deltona, FL 32725	386-878-8100	TEDS, Inc	Mikal Reed	Proj Eng	80 Spring Vista Dr DeBary, FL 32713	386-753-0558	Demo, asph milling & paving, conc sidewalks & curbs, storm water pipe, grading, clearing, sod, traffic signals, road striping	$ 212,000
LA Fitness Stormwater Improvements	Realty Income Group	Nubia Pasko	Proj Man	11995 El Camino Real San Diego, CA 92130	760-522-5617	Excel Engineering	Julian Coto	Proj Eng	122 Wilshire Blvd Casselberry, FL 32707	407-260-2292	Demo, grading, sod, clearing storm water pipe, fencing, conc sidewalks & curbs, landscaping	$ 188,000
Palm Harbor Court Stormwater Impr	City of Leesburg	Robert Beard	Proj Man	204 N 5th St Leesburg, FL 34748	352-435-9440	n/a	n/a	n/a	n/a	n/a	Demo, stormwater pipe, asph paving, clearing, grading, sod, concrete work	$ 153,590

EXHIBIT B TO ATTACHMENT A

SCOPE OF WORK

CONTRACT PLANS COMPONENTS

ROADWAY PLANS
UTILITY PLANS

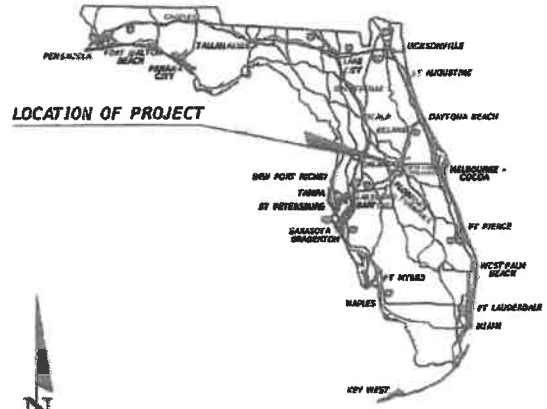
TOWN OF WINDERMERE

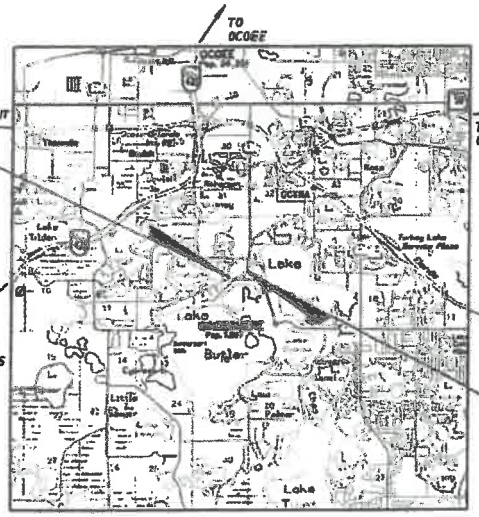
CONTRACT PLANS

PARK AVENUE SIDEWALK AND DRAINAGE IMPROVEMENTS

INDEX OF ROADWAY PLANS

LOCATION OF PROJECT





GOVERNING DESIGN STANDARDS:

Florida Department of Transportation, FY2018-19 Standard Plans

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, January 2019 Standard Specifications for Road and Bridge Construction at the following website:
http://www.fdot.gov/programmanagement/Implemented/SpecBooks

HAO T. CHAU
LICENSE
No 61640
Hao Chau
STATE OF
PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY HAO T. CHAU ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

ROADWAY PLANS
ENGINEER OF RECORD:

HAO T. CHAU, P.E. NO: 61640

Kimley»Horn
189 SOUTH ORANGE AVENUE
SUITE 1000
ORLANDO, FLORIDA 32801
TEL: (407) 898-1511
VENDOR NO. F560885615-001
CERTIFICATE OF AUTHORIZATION NO. 696

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
	19	1

GENERAL NOTES:

1. EXISTING DRAINAGE STRUCTURES WITHIN CONSTRUCTION LIMITS SHALL REMAIN, UNLESS OTHERWISE NOTED. EXISTING DRAINAGE MUST BE MAINTAINED UNTIL NEW SYSTEM IS ACTIVATED.

2. ALL EXISTING UTILITIES WITHIN PROJECT LIMITS ARE TO REMAIN UNLESS OTHERWISE NOTED.

3. VERTICAL CONTROL FOR THIS PROJECT IS BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

4. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY.

5. THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS THROUGH SUNSHINE STATE ONE CALL OF FLORIDA (1-800-432-4770) AND THE UTILITY OWNERS LISTED BELOW A MINIMUM OF TWO BUSINESS DAYS (10 DAYS IF DIGGING UNDER WATER) IN ADVANCE OF BEGINNING CONSTRUCTION ON THE JOB SITE.

UTILITY AGENCY OWNER	TELEPHONE NUMBER	CONTACT PERSON
AT&T	770-918-5424	NANCY SPENCE
BRIGHTHOUSE-CHARTER COMMUNICATION	407-532-8509	MARVIN USRY JR.
DUKE ENERGY	727-893-9394	MEGAN VONSTETINA
LAKE APOPKA NATURAL GAS DISTRICT	407-656-2734	ANTONIA GIBSON
ORANGE COUNTY UTILITIES	407-254-9764	DAVID SHORETTE
ORANGE COUNTY PUBLIC WORKS	407-836-7804	ROGER SMITH
ORLANDO TELEPHONE COMPANY INC.	407-996-8900	AARON PICKLE
ORLANDO UTILITIES COMMISSION	407-434-2569	RON HAWKINS
TOWER CLOUD INC.	813-417-2184	JONATHAN RAY
CENTURY LINK	407-814-5293	TY LESLIE
SUMMIT BROADBAND	727-235-4362	ROBERT SMITH

6. CONTRACTOR SHALL ADJUST ALL UTILITY LIDS AND COVERS TO FINISHED GRADE AS REQUIRED.

7. PRIOR TO COMMENCEMENT OF ANY EXCAVATION , THE CONTRACTOR SHALL COMPLY WITH FLORIDA STATUTE. 553.851 FOR THE PROTECTION OF UNDERGROUND GAS PIPELINES.

8. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES THAT ARE TO REMAIN IN PLACE.

9. THE CONTRACTOR WILL RESTORE ALL AREAS DISTURBED BY THIS CONSTRUCTION TO A CONDITION EQUAL TO OR BETTER THAN THE CONDITION EXISTING PRIOR TO CONSTRUCTION, ALL DISTURBED AREAS TO BE SODDED.

10. THE CONTRACTOR SHALL FURNISH THE ENGINEER, PRIOR TO INCORPORATION INTO THE PROJECT, A CERTIFICATION FROM THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES DIVISION OF PLANT INDUSTRY, STATING THAT THE SOD, STRAW AND MULCH MATERIALS ARE FREE OF NOXIOUS WEEDS, INCLUDING TROPICAL SODA APPLE.

11. ALL SYNTHETIC BALES, ROCK BAGS AND SILT FENCE SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT.

12. THE CONTRACTOR SHALL DEVELOP AND SUBMIT AN EROSION PLAN FOR THE PREVENTION, CONTROL, ABATEMENT OF EROSION, SEDIMINATION, AND WATER POLLUTION TO THE TOWN FOR APPROVAL. EROSION CONTROL ITEMS ARE TO BE USED AT THE LOCATIONS DESCRIBED IN THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN TO COMPLY WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

13. THE CONTRACTOR IS TO MAINTAIN AND KEEP STREET NAME IDENTIFICATION VISIBLE DURING CONSTRUCTION OPERATIONS, IN ORDER TO FACILITATE EMERGENCY VEHICLE TRAFFIC. PLACEMENT OF BUSINESS ENTRANCE SIGNS AND CHANNELIZING DEVICES ARE TO BE IN ACCORDANCE WITH INDEX 102-600.

14. STAGING AND MATERIAL STORAGE SHALL NOT BE CONDUCTED ON ABUTTING PRIVATE PROPERTY WITHOUT WRITTEN APPROVAL FROM THE OWNER.

15. THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL RESIDENCES AND BUSINESSES DURING THE ENTIRE CONSTRUCTION PERIOD.

16. MATCH SOD TYPES TO ADJACENT PROPERTIES. IF NO PARTICULAR TYPE IS EVIDENT THEN SAINT AUGUSTINE SHALL BE USED.

17. ALL STATIONS AND OFFSETS ARE REFERENCED TO ℄ OF SURVEY.

18. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHALL NOTIFY THE TOWN SURVEYOR, WITHOUT DELAY, BY TELEPHONE.

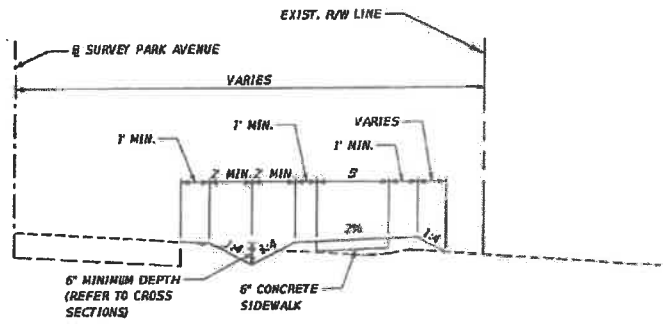
19. CONTRACTOR SHALL DE-SILT EXISTING CROSS DRAIN.

20. ALL CROSS DRAINS AND STORM PIPE SHALL BE CLASS III REINFORCED CONCRETE PIPE.

21. CONTRACTOR SHALL REMOVE EXISTING SIDEWALK WITHIN PROPOSED SIDEWALK LIMITS.

22. DETECTABLE WARNING TRUNCATED DOMES SHALL BE WET SET, CAST IN PLACE WITH CONCRETE.

23. FURNISH AND INSTALL UTILITY MAIN COST PER LINEAR FOOT INCLUDES ALL PIPE MATERIALS AND INSTALLATION COSTS, INCLUDING BUT NOT LIMITED TO DEWATERING, EXCAVATION, BACKFILL, COMPACTION, RESTORATION AND TESTING.



TYPICAL SECTION

STA. 155+70.18 TO STA. 164+23.47

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley»Horn
Certificate Of Authorization No. 696
Hao T. Chau, P.E.
P.E. License No. 61640
189 South Orange Avenue, Suite 1000
Orlando, Florida 32801

TOWN OF WINDERMERE

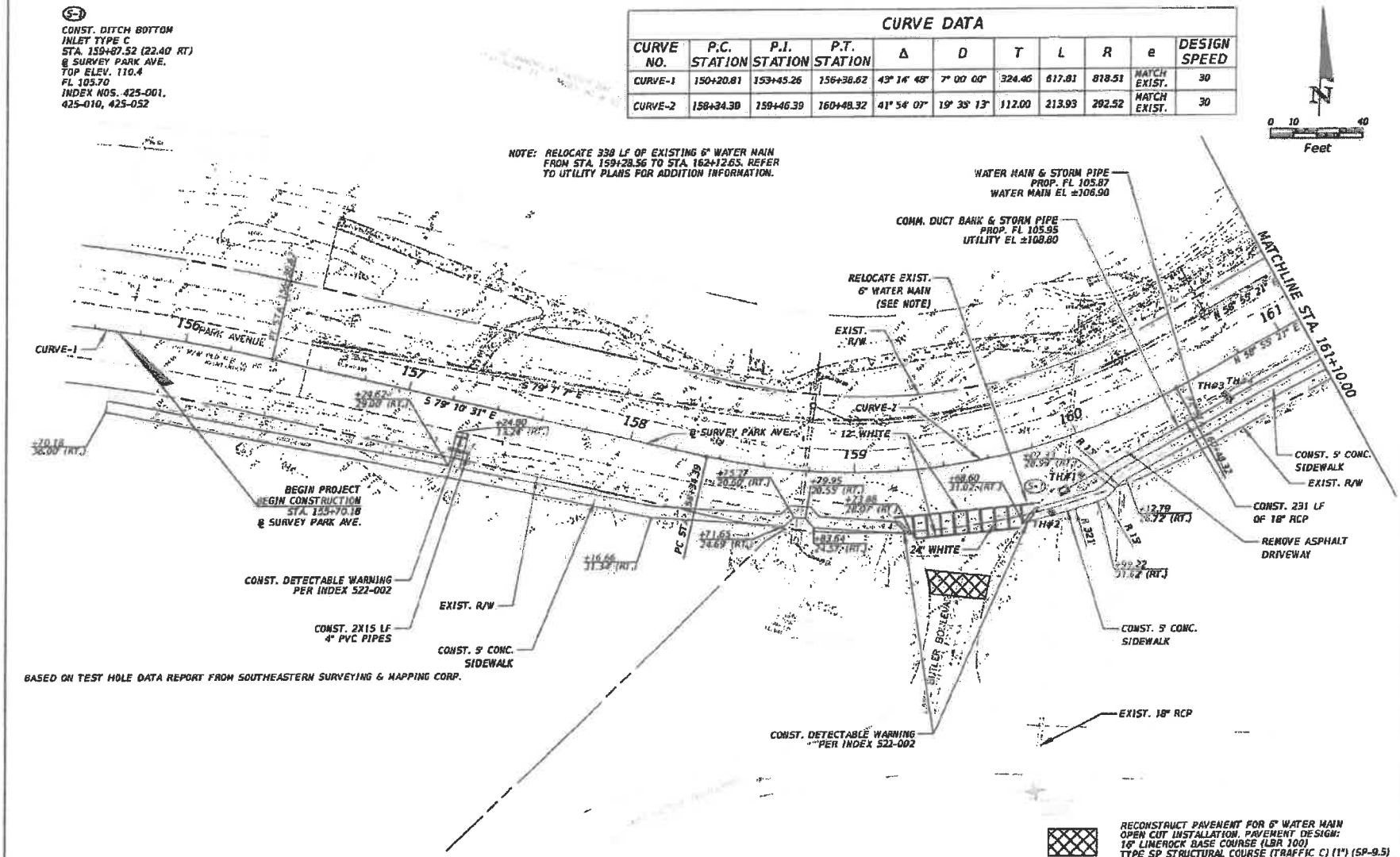
GENERAL NOTES & TYPICAL SECTION

SHEET NO. 2

4/17/2019 10:31:23 AM

CURVE DATA

CURVE NO.	P.C. STATION	P.I. STATION	P.T. STATION	Δ	D	T	L	R	e	DESIGN SPEED
CURVE-1	150+20.81	153+45.26	156+38.62	43° 14' 48"	7° 00' 00"	324.46	617.81	818.51	MATCH EXIST.	30
CURVE-2	158+34.30	159+46.39	160+48.32	41° 54' 07"	19° 35' 13"	112.00	213.93	292.52	MATCH EXIST.	30



BASED ON TEST HOLE DATA REPORT FROM SOUTHEASTERN SURVEYING & MAPPING CORP.

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DATE	DESCRIPTION	DATE	DESCRIPTION

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Hoa T. Chau, P.E.
P.E. License No. 61640
189 South Orange Avenue, Suite 1000
Orlando, Florida 32801

TOWN OF WINDERMERE

PLAN SHEET

SHEET NO. 3

Scott Lynch 4/17/2019 10:37:15 AM

(S-2)
CONST. DITCH BOTTOM
INLET TYPE C
STA. 162+17.00 (15.40' RT)
@ SURVEY PARK AVE.
TOP ELEV. 109.9
FL 106.60
INDEX NOS. 425-001,
425-010, 425-052

(S-2A)
CONST. DITCH BOTTOM
INLET TYPE C
STA. 162+44.00 (15.47' RT)
@ SURVEY PARK AVE.
TOP ELEV. 110.0
FL 106.7
INDEX NOS. 425-001,
425-010, 425-052

(S-3)
CONST. DITCH BOTTOM
INLET TYPE C
STA. 163+75.00 (15.20' RT)
@ SURVEY PARK AVE.
TOP ELEV. 110.0
FL 107.20
INDEX NOS. 425-001,
425-010, 425-052

(S-4)
CONST. DITCH BOTTOM
INLET TYPE C
STA. 164+15.00 (15.20' RT)
@ SURVEY PARK AVE.
TOP ELEV. 110.0
FL 107.40
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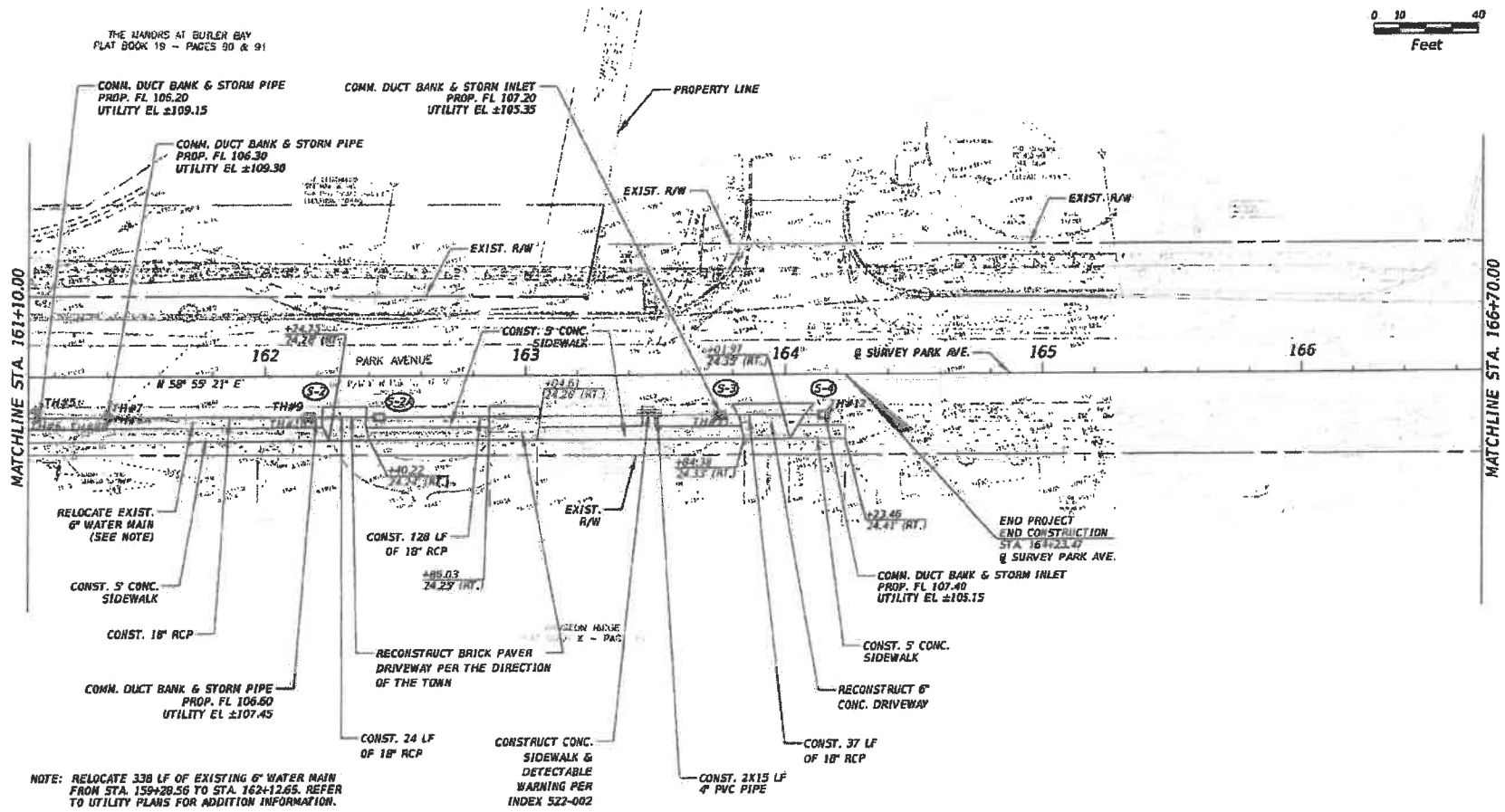
425-010, 425-052



NOTE: RELOCATE 338 LF OF EXISTING 6" WATER MAIN FROM STA. 159+28.56 TO STA. 162+12.65. REFER TO UTILITY PLANS FOR ADDITION INFORMATION.

NOTE: CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING PAVER DRIVEWAYS. DISTURBED OR DAMAGED PAVERS SHALL BE RESTORED TO ORIGNAL OR BETTER CONDITION AT NO ADDITIONAL COMPENSATION.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley»Horn
Certificate Of Authorization No. 696
Hoa T. Chau, P.E.
P.E. License No. 61640
189 South Orange Avenue, Suite 1000
Orlando, Florida 32801

TOWN OF WINTERGARDEN

PLAN SHEET

SHEET NO. 4

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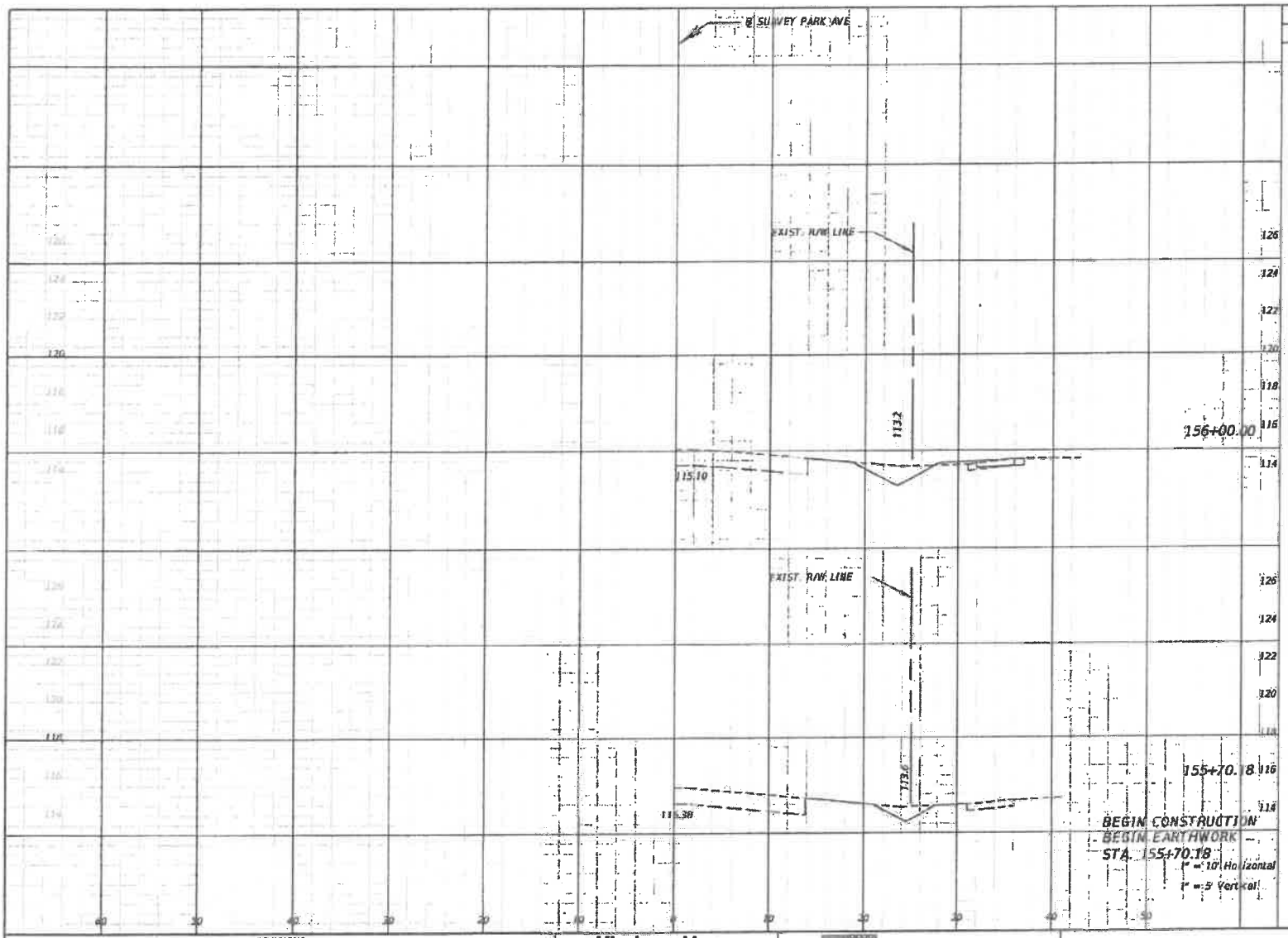

Regular Exc.		Embankment	
A	V	A	V
6		1	
	5		1
3		0	
	0		0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley»Horn
Certificate Of Authorization No. 696
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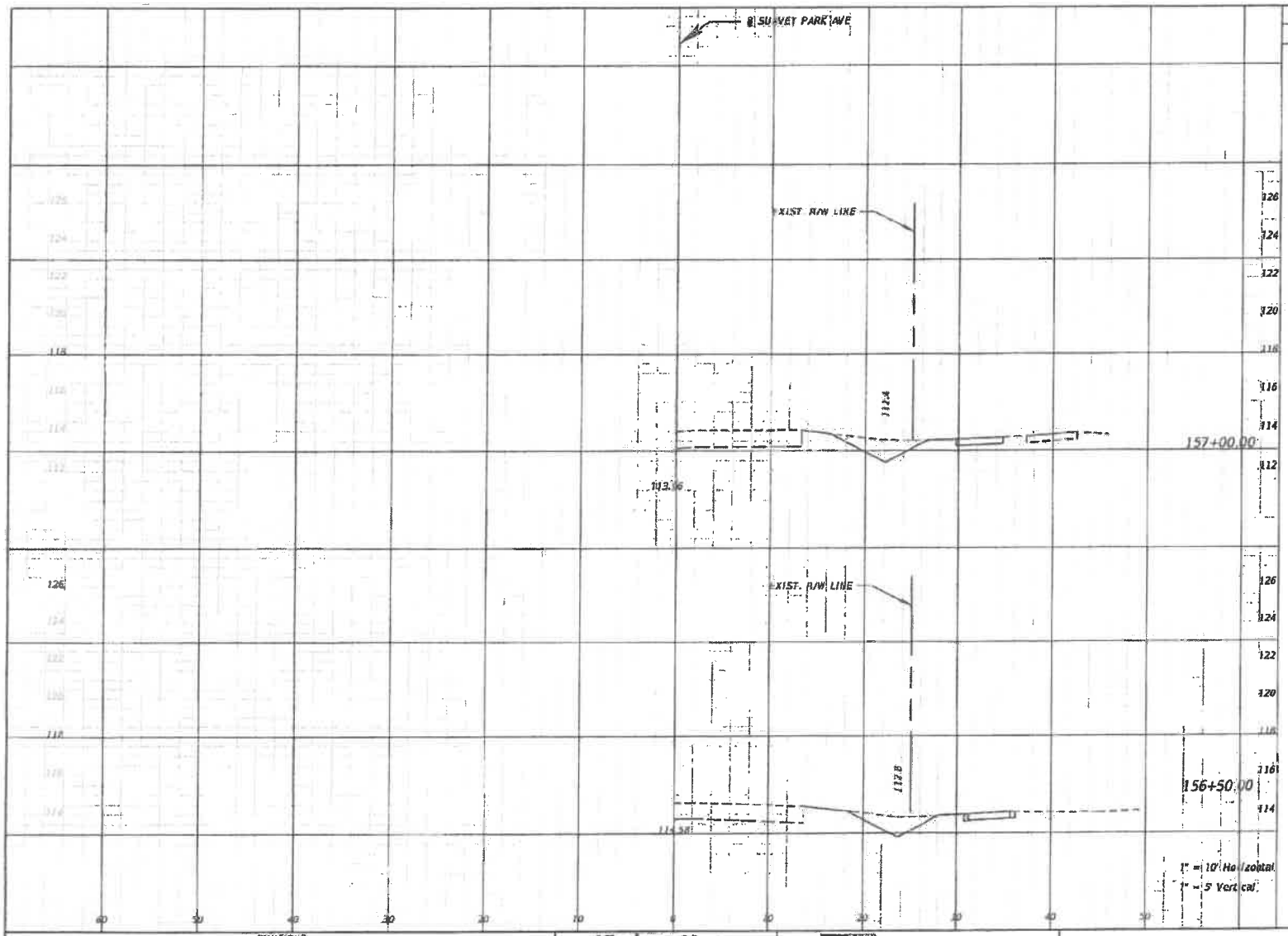
P.E. License No. 61640
189 South Orange Avenue, Suite 1000
Orlando, Florida 32801

TOWN OF WINDERMERE

CROSS SECTIONS

SHEET NO. 5

Sam Lynch



Regular Exc.		Embankment	
A	V	A	V
8		0	
	13		0
7		0	
	12		1

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

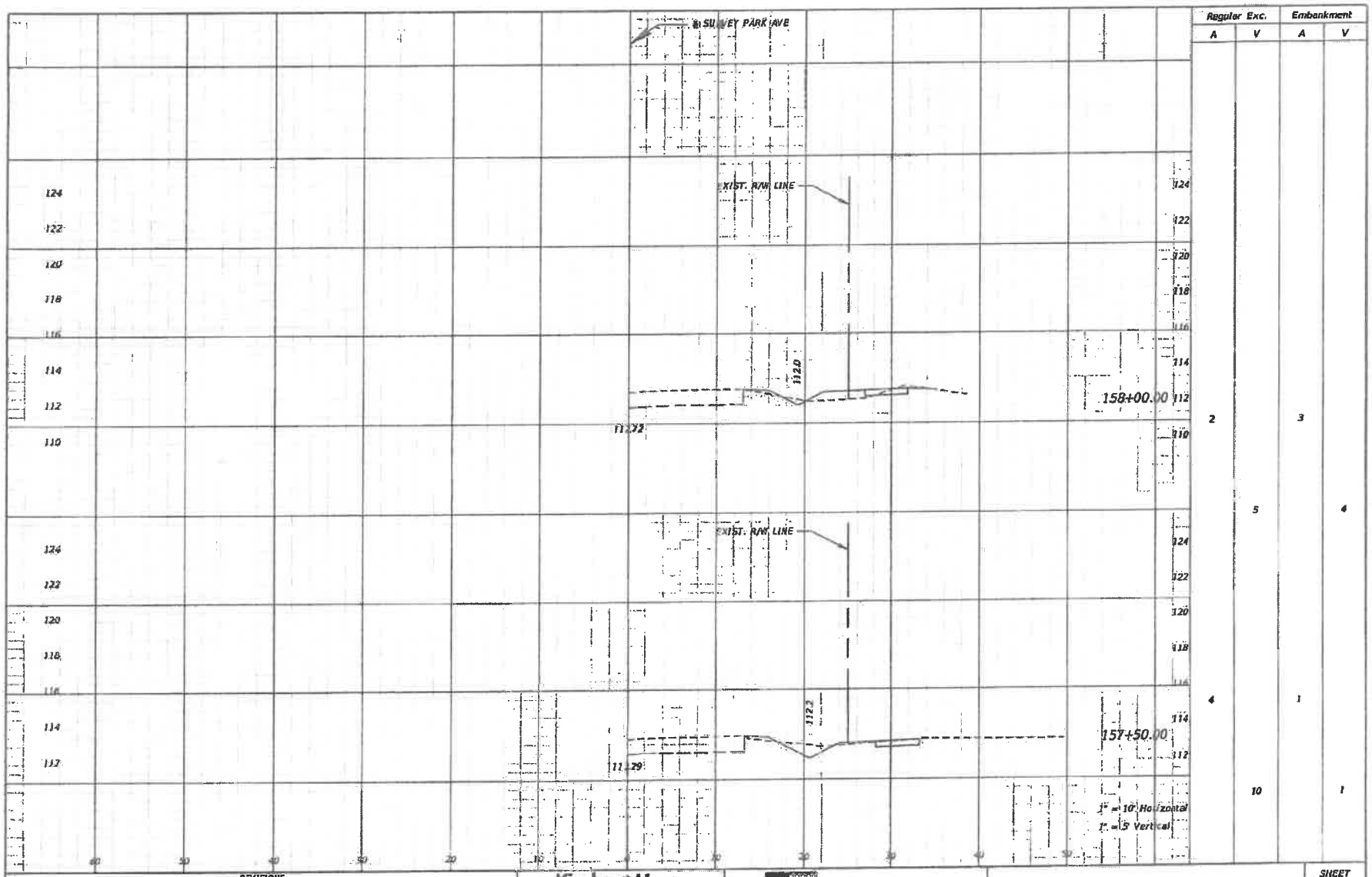
Kimley»Horn
Certificate Of Authorization No. 696
Hao T. Chau, P.E.
P.E. License No. 61640
189 South Orange Avenue, Suite 1000
Orlando, Florida 32801

TOWN OF WINTERMERE

CROSS SECTIONS

SHEET NO. 6

Sean Lynch 4/17/2019 10:27:17 AM E:\OKL_Roadway\149583001_Town of Windermere\149583001\roadway\RDS\SHEET_Sidewal



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley»Horn
Certificate Of Authorization No. 696
Han T. Chau, P.E.
P.E. License No. 61640
189 South Orange Avenue, Suite 1000
Orlando, Florida 32801

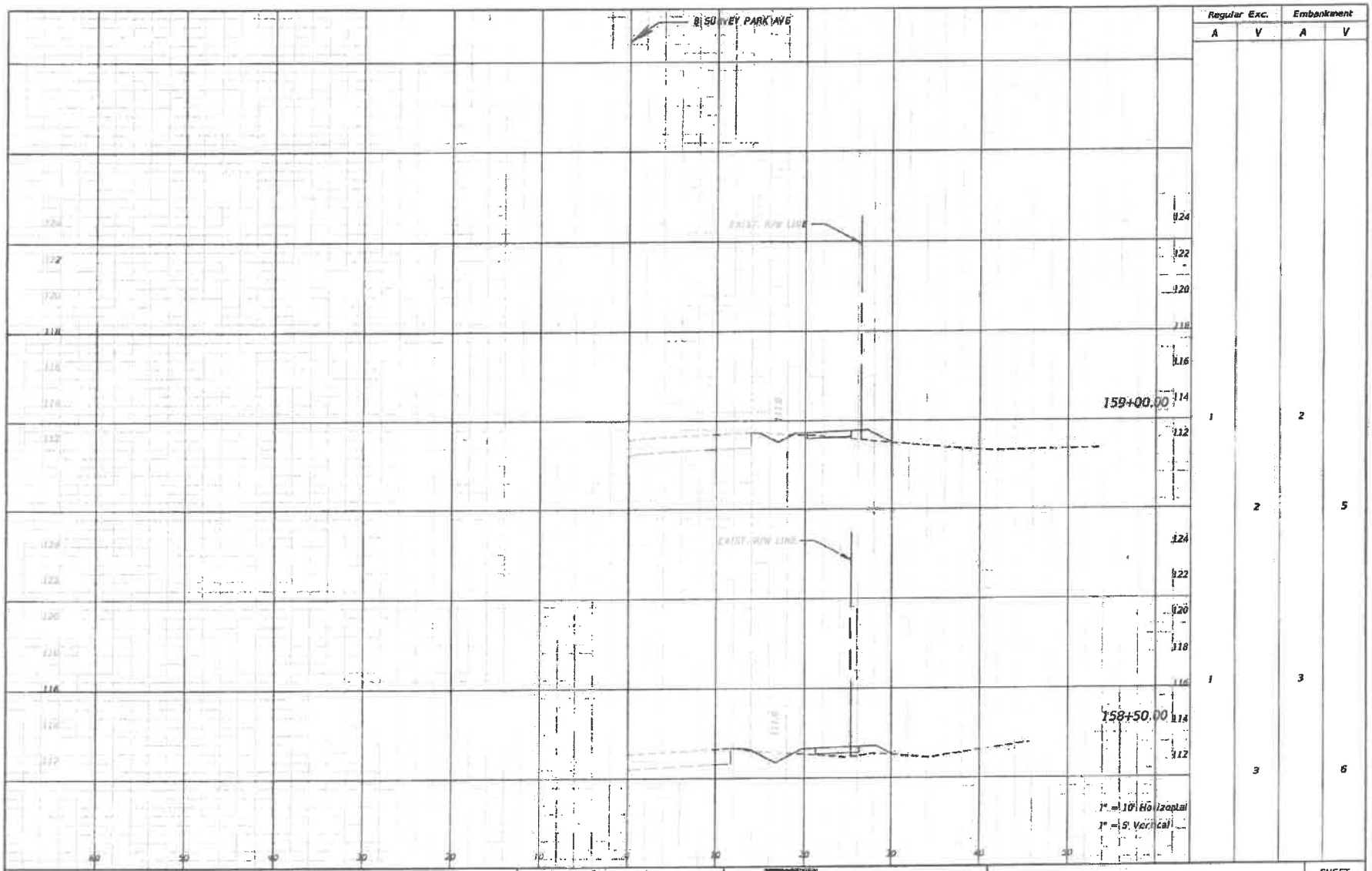
TOWN OF WINDERMERE

CROSS SECTIONS

SHEET NO. 7

Sign Layers

4/17/2019 10:21:17 AM R:\DRL_Roadway\149563001_Town of Windermere\149563001\roadway-RDS\RD01_Sideslal



Regular Exc.		Embankment	
A	V	A	V
1		2	
	2		5
1		3	
	3		6

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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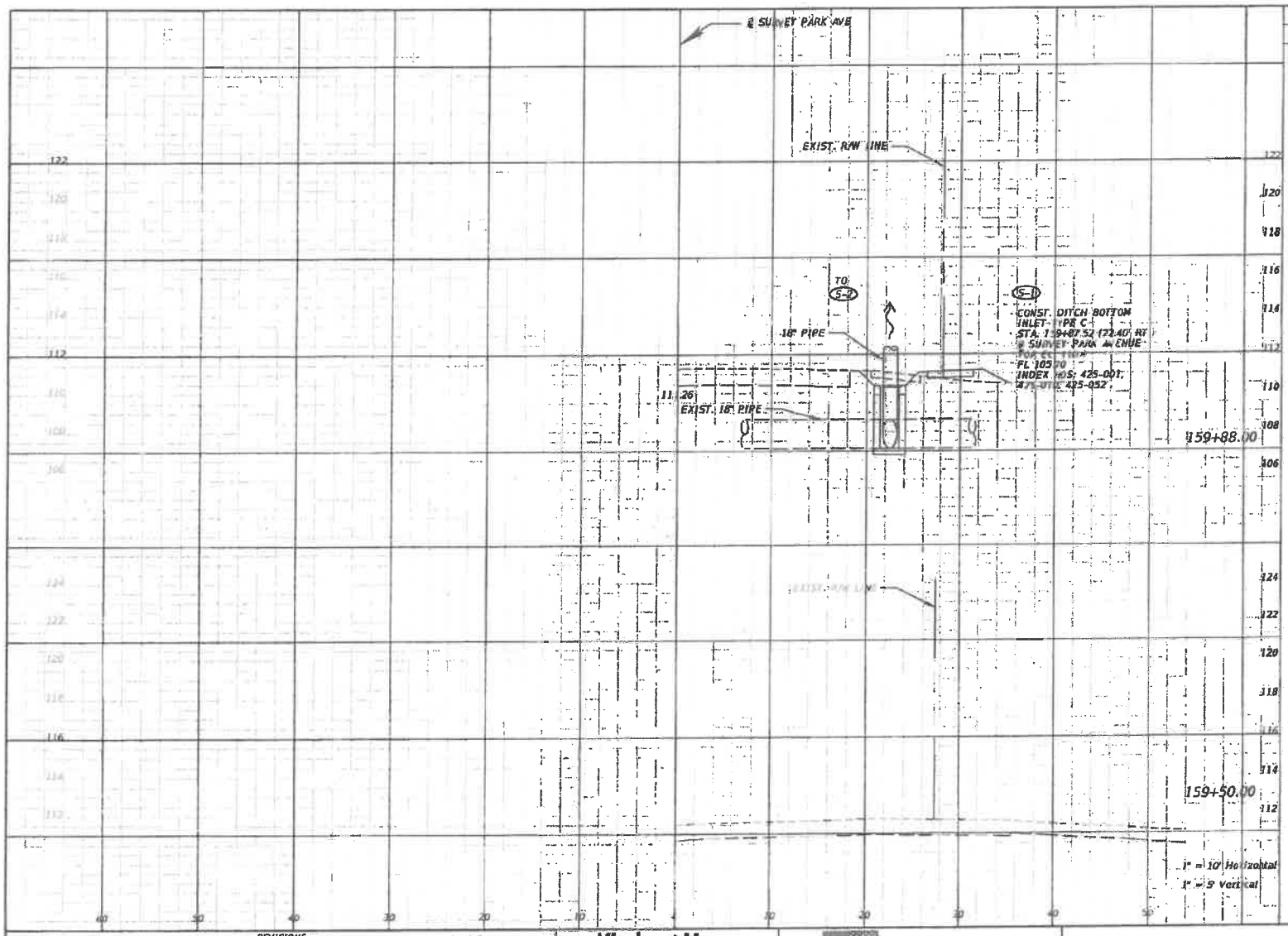
Hao T. Chou, P.E.
P.E. License No. 61640
189 South Orange Avenue, Suite 1000
Orlando, Florida 32801

TOWN OF WINDERMERE

CROSS SECTIONS

SHEET NO. 8

Sean Lynch 4/11/2019 10:37:17 AM K:\Civil_Roadway\145563007_Town of Windermere\145563007\roadway\RDS\SR101_Sidewal



Regular Exc.		Embankment	
A	V	A	V
3		2	
	7		7
0		0	
	1		2

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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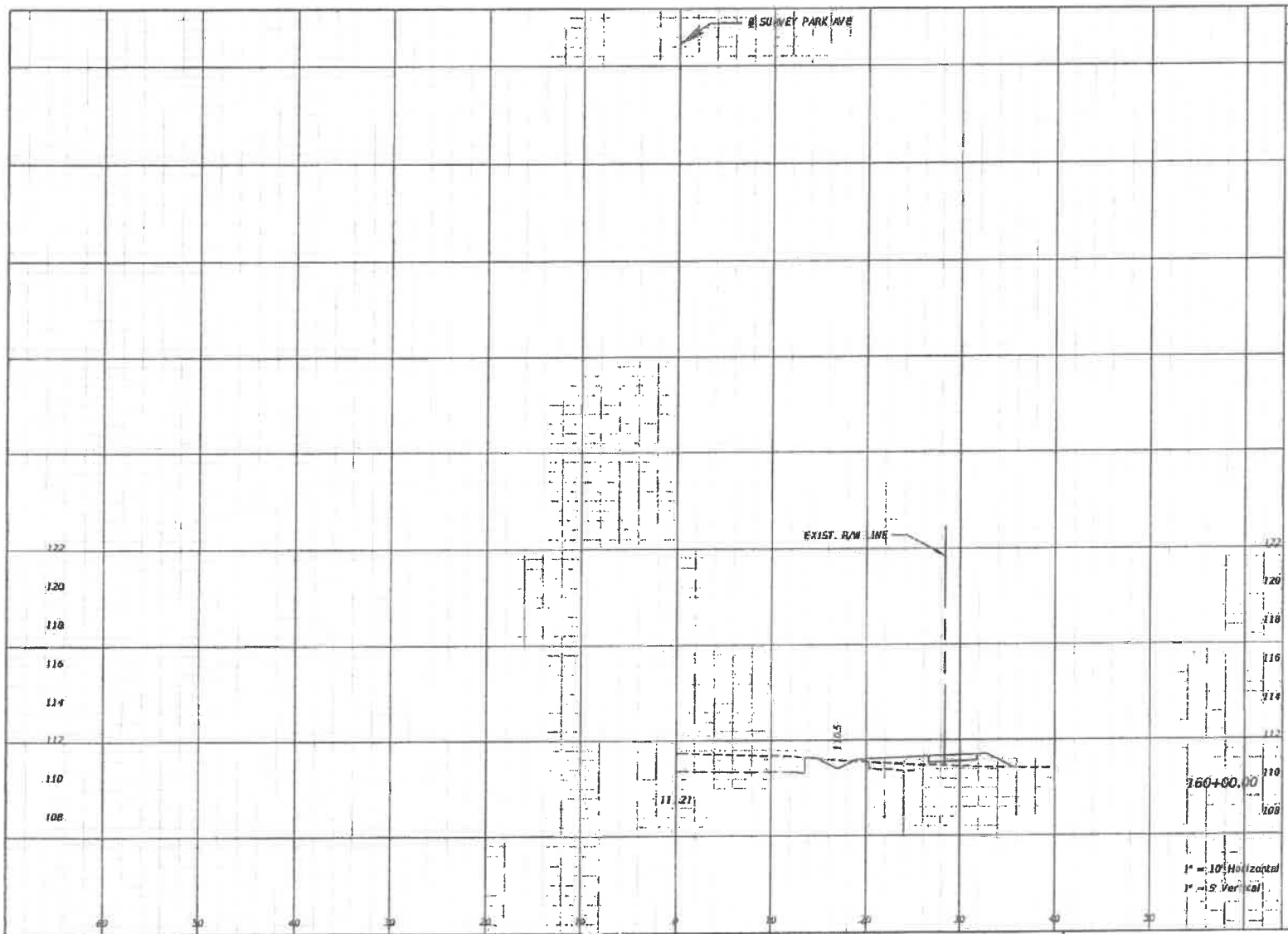
Orlando, Florida 32801

TOWN OF WINDERMERE

CROSS SECTIONS

SHEET NO. 9

Sewtpwh 4/17/2019 10:22 18 AM E:\OBL_Roadway\149563007_Town of Windermere\149563007\roadway\RDS\RDX1_Sidewal



Regular Exc.		Embankment	
A	V	A	V
1	1	5	2

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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TOWN OF WINDERMERE

CROSS SECTIONS

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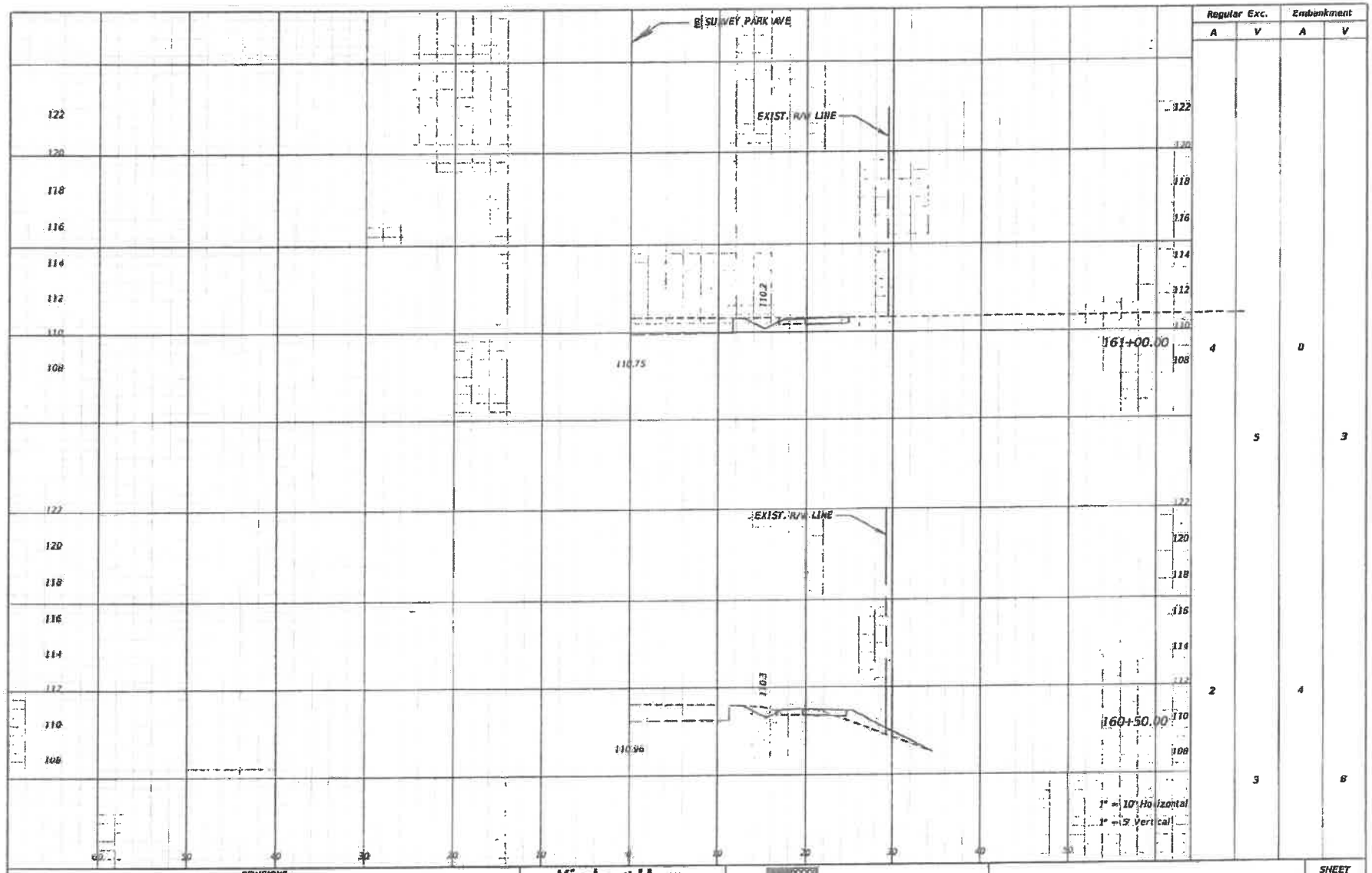

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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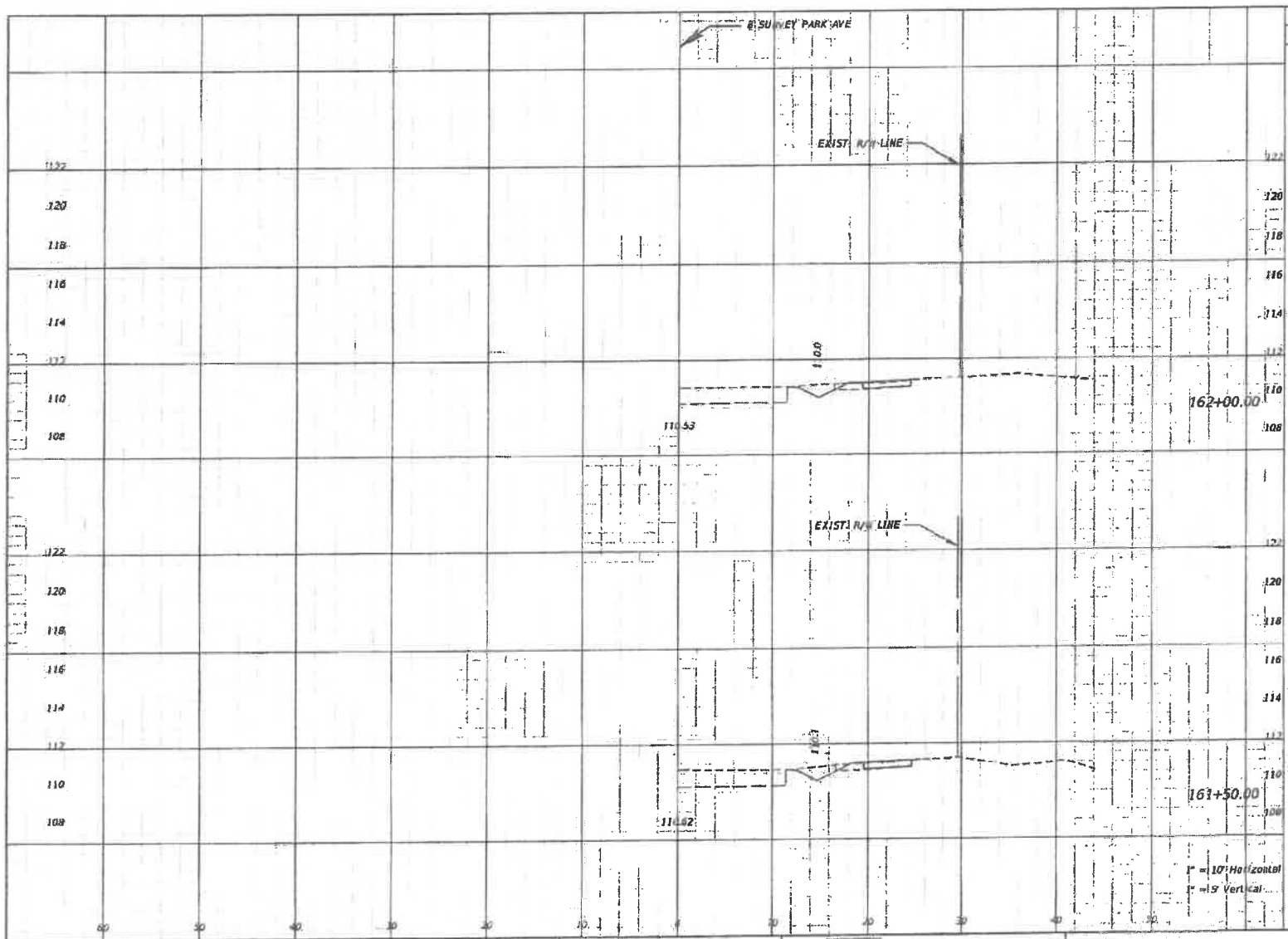
Orlando, Florida 32801

TOWN OF WINDERMERE

CROSS SECTIONS

SHEET NO.
11

SeanLynch 4/17/2018 10:31:18 AM



Regular Exc.		Embankment	
A	V	A	V
3	6	0	0
4	8	0	0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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Orlando, Florida 32801

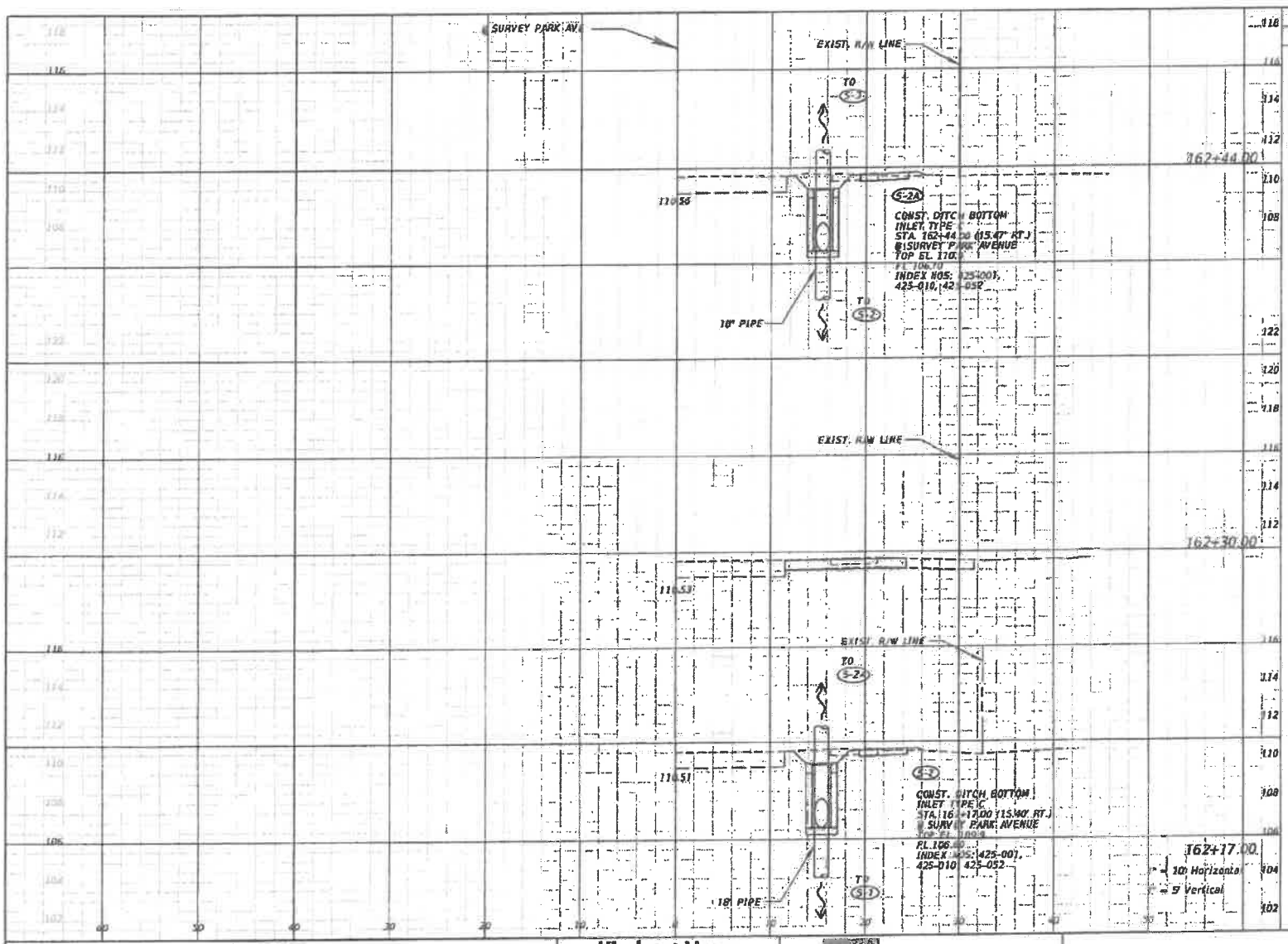
TOWN OF WINDERMERE

Stan Lynch

CROSS SECTIONS

SHEET NO. 12

4/11/2010 10:21:18 AM



DATE	DESCRIPTION	DATE	DESCRIPTION

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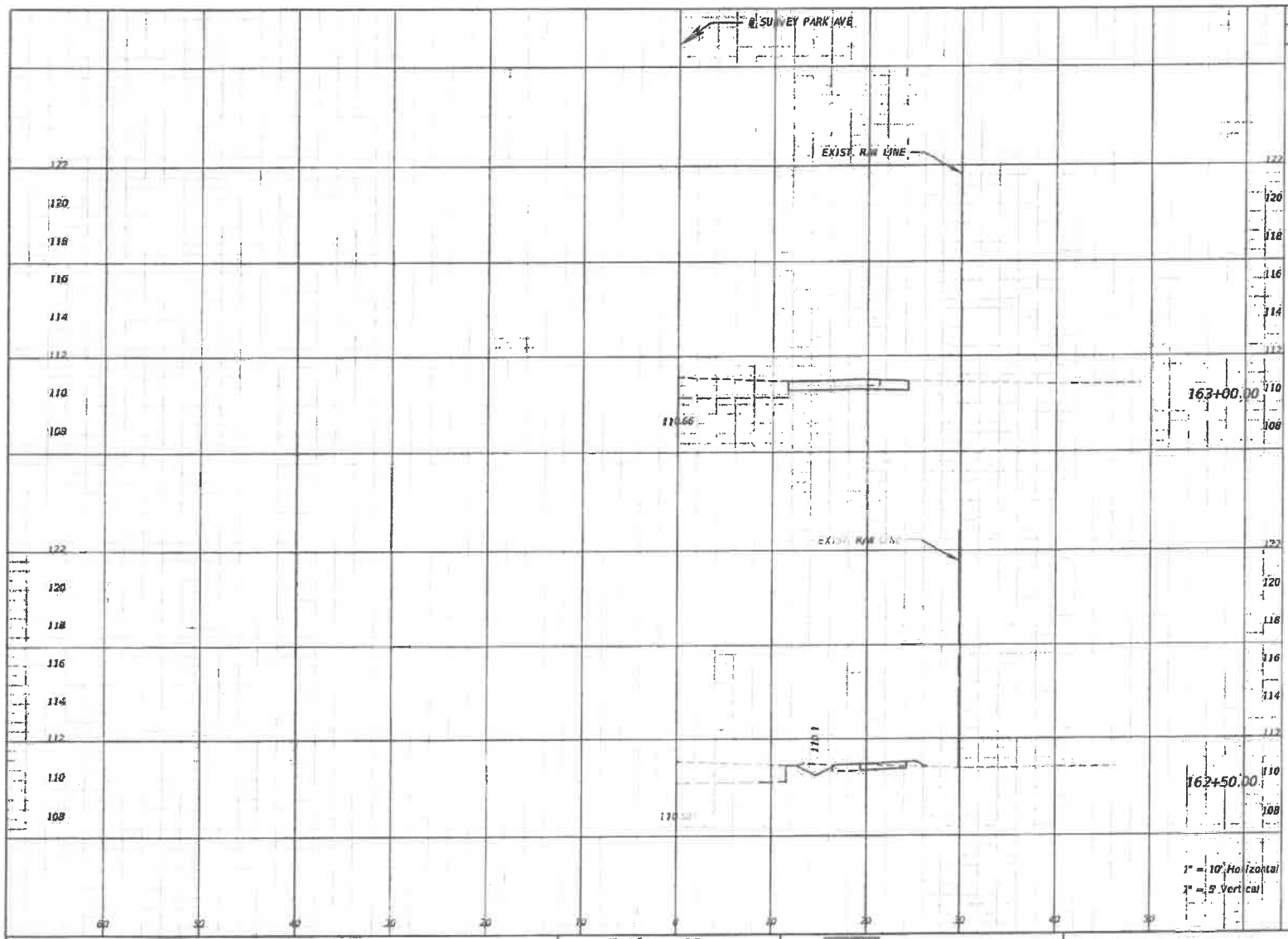
Orlando, Florida 32801

TOWN OF WINDERMERE

CROSS SECTIONS

SHEET NO. 13

Stan Lynch 4/17/2019 10:21:18 AM E:\ONL_Roadway\145062001_Town of Windermere\145062001\Roadway\145062001_Sidewal



	Regular Exc.		Embankment	
	A	V	A	V
163+00.00	8	10	0	0
162+50.00	3	3	0	0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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TOWN OF WINDERMERE

CROSS SECTIONS

SHEET NO. 14

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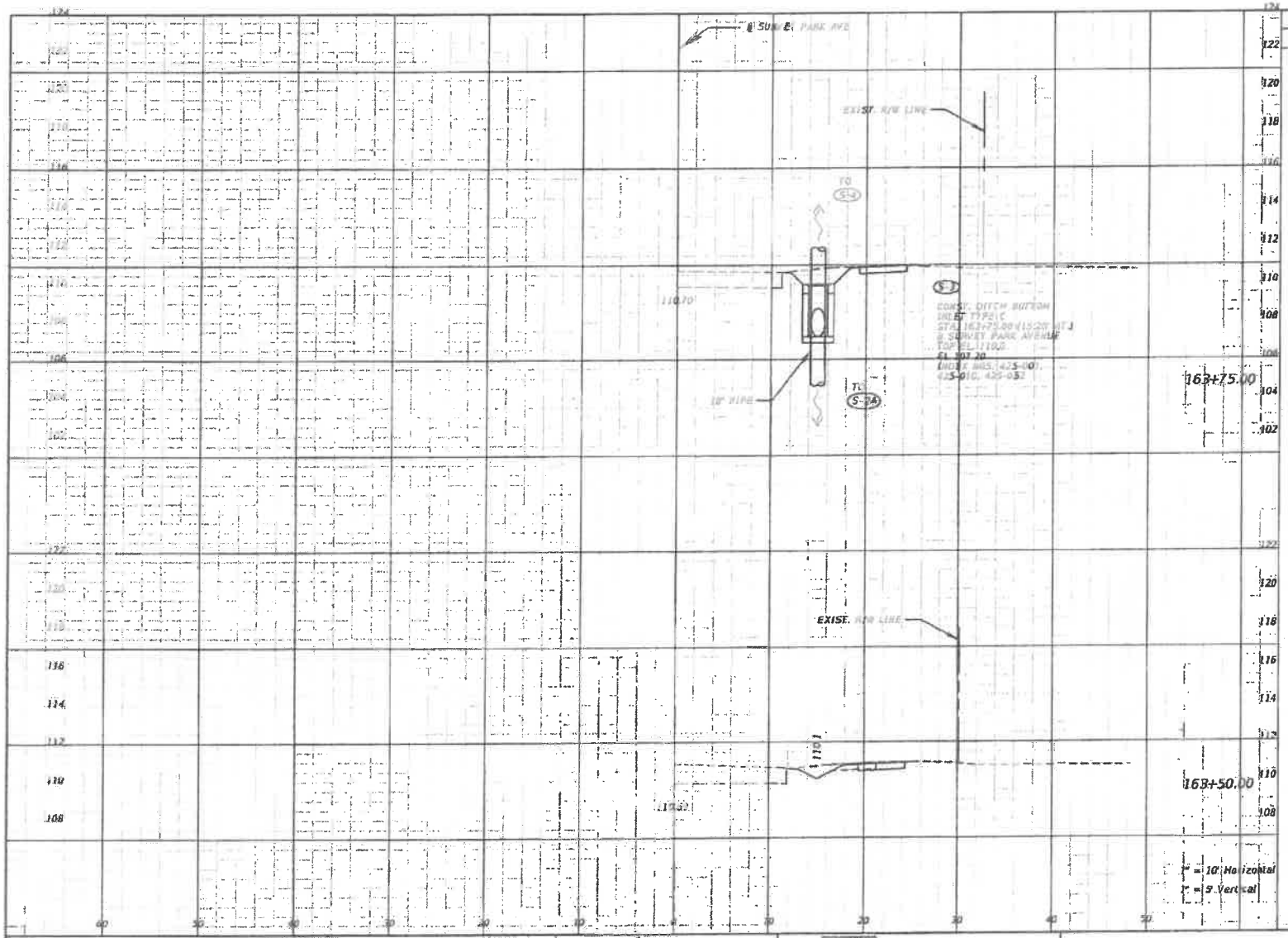

Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
6		0	
	4		0
4		0	
	10		0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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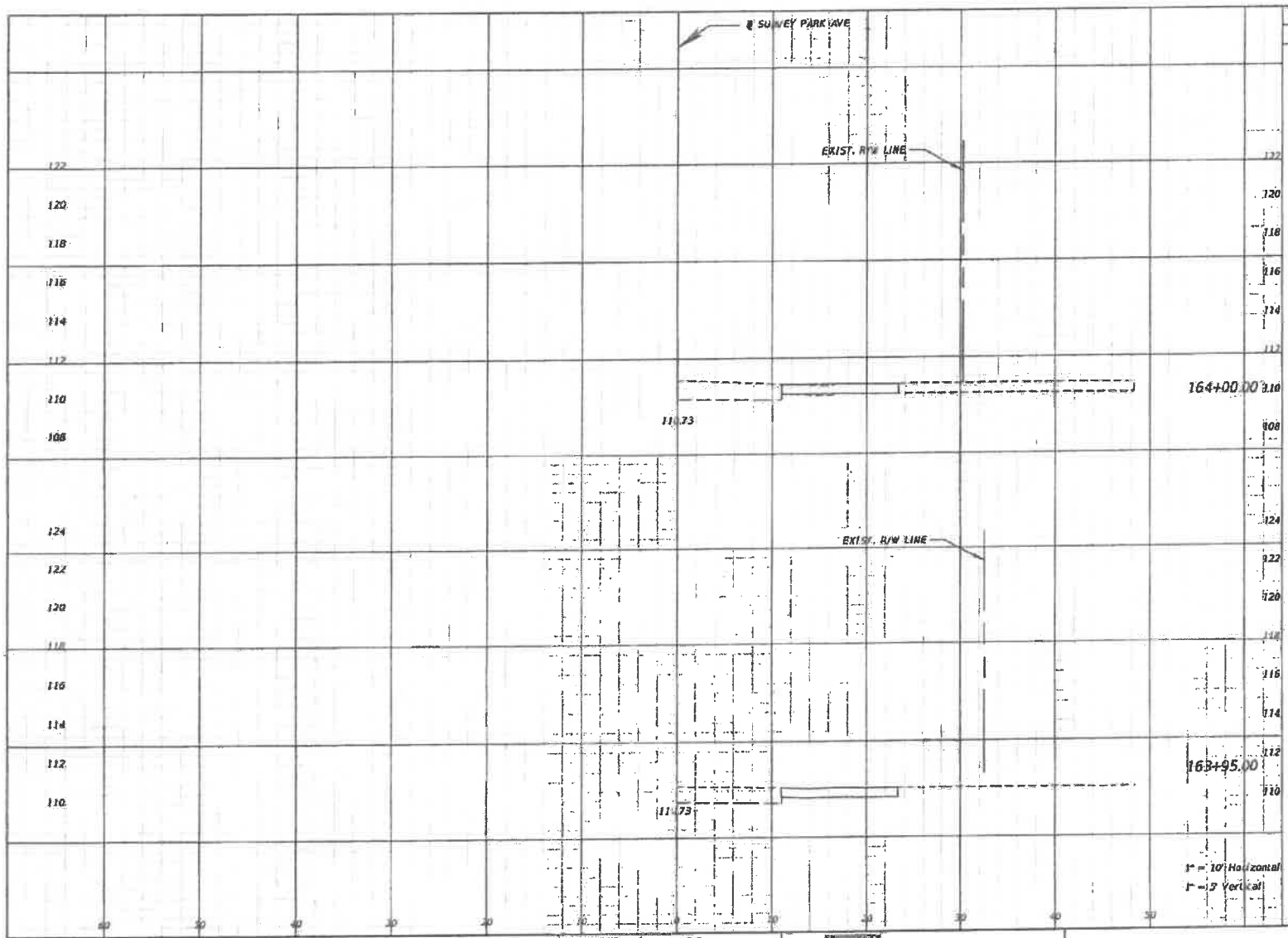
TOWN OF WINDERMERE

CROSS SECTIONS

SHEET NO. 15

Sean.Lynch 4/17/2019 10:27:19 AM K:\OAL_Roadway\149563007_Town of Windermere\149563007\roadway\RDX50D01_Sidewal



	Regular Exc.		Embankment	
	A	V	A	V
164+00.00	6		0	
		1		0
163+95.00	6		0	
		4		0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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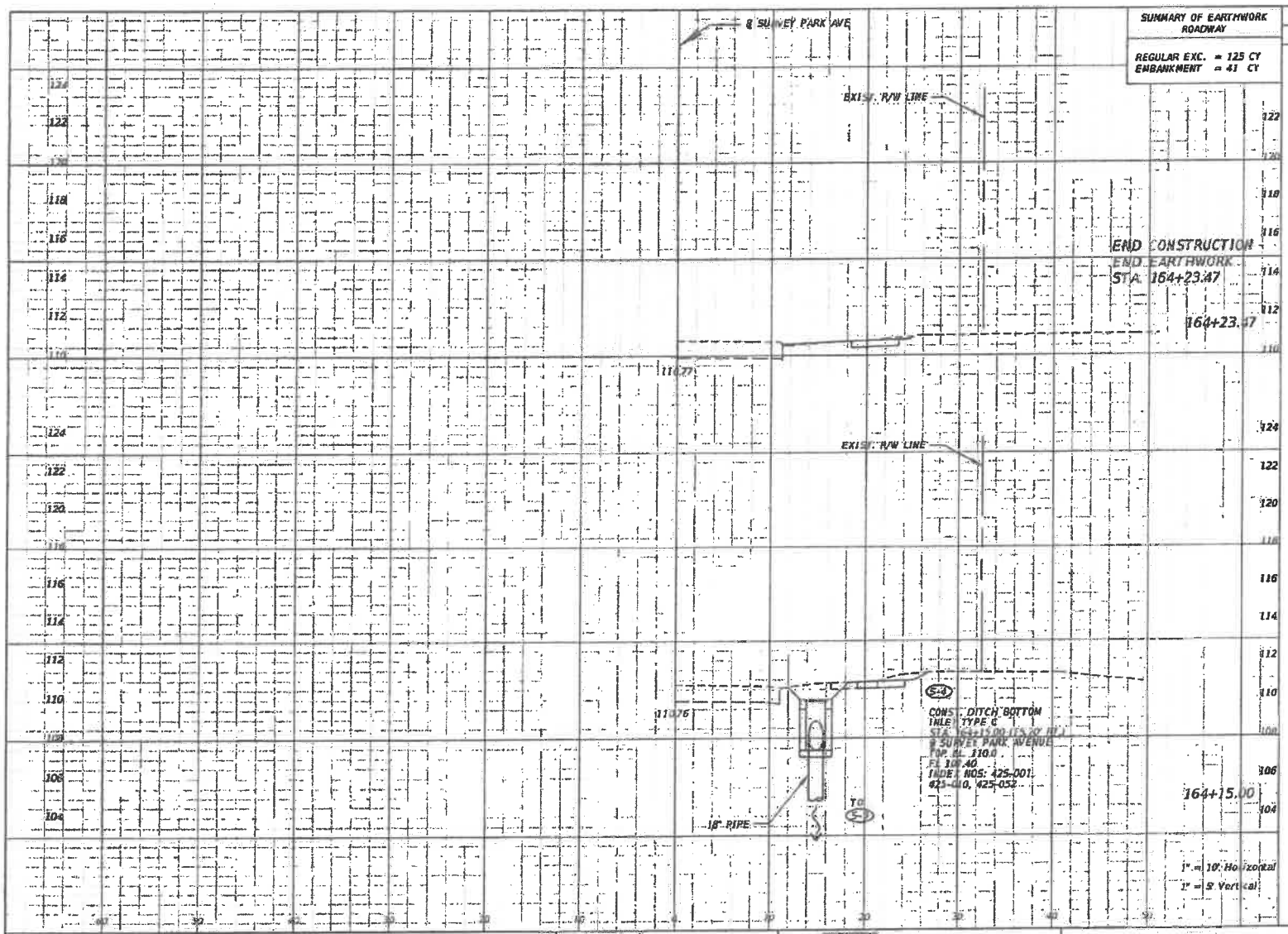
Orlando, Florida 32801

TOWN OF WINDERMERE

CROSS SECTIONS

SHEET NO. 16

Sean.Lynch 4/11/2019 10:37:18 AM K:\Orl_Roadway\149563007_Town of Windermere\149563007_Gateway\ROESR001_Sidewal



SUMMARY OF EARTHWORK ROADWAY	Regular Exc.		Embankment	
	A	V	A	V
REGULAR EXC. = 125 CY EMBANKMENT = 41 CY	2	1	0	0
	7	4	0	0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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Orlando, Florida 32801

TOWN OF WINDERMERE

CROSS SECTIONS

SHEET NO. 17

Sean Lynch 4/17/2019 10:37:16 AM K:\ORL_Roadway\149563007_Town of Windermere\149563007 Roadway\MOT\SHEET01_Sidewal

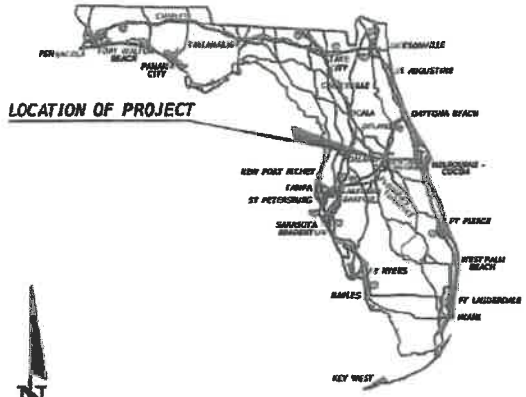
CONTRACT PLANS COMPONENTS

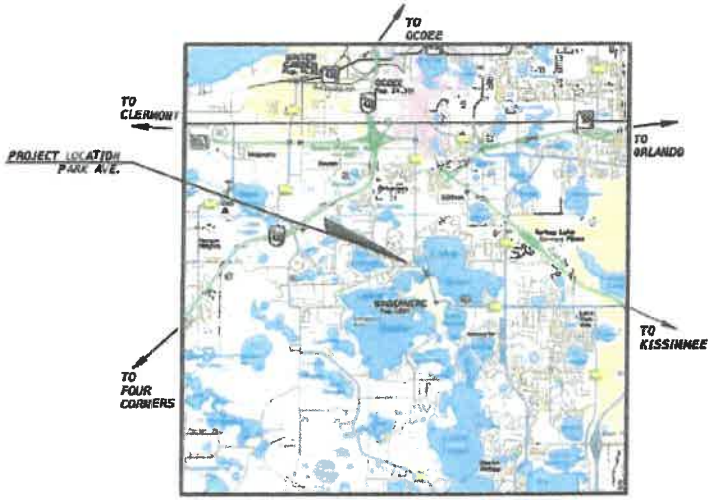
ROADWAY PLANS

ORANGE COUNTY UTILITIES

CONTRACT PLANS

PARK AVENUE
UTILITY RELOCATION





INDEX OF ROADWAY PLANS

UTILITY PLANS ENGINEER OF RECORD:

STEPHEN N. ROMANO, P.E. NO: 57579

Kimley»Horn

189 SOUTH ORANGE AVENUE
SUITE 1000
ORLANDO, FLORIDA 32801
TEL: (407) 898-1511
VENDOR NO. F560885615-001
CERTIFICATE OF AUTHORIZATION NO. 696

GOVERNING DESIGN STANDARDS:

Florida Department of Transportation, FY2018-19 Standard Plans

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, January 2019 Standard Specifications for Road and Bridge Construction at the following website:
http://www.fdot.gov/programmanagement/Implemented/SpecBooks

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
_____	19	T-1

CIVIL SYMBOLS LEGEND

93.0	EXISTING SPOT ELEVATION
93.50	PROPOSED ELEVATION
94.00 / 93.50	PROPOSED TOP OF CURB/ PAVEMENT ELEVATION
95	EXISTING CONTOUR
95	PROPOSED CONTOUR
	PROPOSED STORM PIPE
	PROPOSED CURB INLET
	PROPOSED CURB INLET
D	PROPOSED STORM MANHOLE
	EXISTING STORM PIPE
	EXISTING CURB INLET
	PROPOSED DIRECTION OF SURFACE WATER RUNOFF
	PROPOSED YARD DRAIN

PROCESS PIPING LEGEND (SINGLE-LINE)

	EXISTING SANITARY MAIN
	EXISTING RECLAIM MAIN
	EXISTING WATER MAIN
	EXISTING UNDERGROUND TELECOMM. LINE
	EXISTING OVERHEAD LINE
	EXISTING FIBER OPTIC LINE
	EXISTING NATURAL GAS LINE
	PROPOSED WATER LINE
CNN	PROPOSED FLEXIBLE WATER SERVICE
	PROPOSED WATER VALVE
	PROPOSED FIRE HYDRANT ASSEMBLY
	PROPOSED SANITARY SEWER
S	PROPOSED SANITARY MANHOLE
	PROPOSED SANITARY SERVICE

DRAFTING LEGEND

- LINE (TYP) — ARCHITECTURAL GRAPHIC LEGEND (DESIGNED FOR USE IN MULTIPLE LOCATIONS)
- LINE — ARCHITECTURAL GRAPHIC LEGEND (INCLUDING CONCRETE TARGET)
- TEMPORARY OR EXISTING GRAPHIC LEGEND
- NEW GRAPHIC LEGEND (NEW DESIGN) (SCHEMATIC REPRESENTATION)
- SEE SHEET ###
- STANDARD NORTH (NORTH AS SHOWN)
- NORTH — NORTH ARROW

GRAPHIC SCALE IN FEET

0 10 20 40

HORIZONTAL: HALF HORIZONTAL SCALE; FULL HORIZONTAL SCALE; DOUBLE HORIZONTAL SCALE

0 10 20 40

VERTICAL: HALF VERTICAL SCALE; FULL VERTICAL SCALE; DOUBLE VERTICAL SCALE

GRAPHIC SCALE (HORIZONTAL AND/OR VERTICAL AS REQUIRED)

PROCESS PIPING LEGEND (DOUBLE-LINE OR 3D)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	MECHANICAL JOINT FITTINGS		GLOBE CHECK VALVE (FLANGED SHOWN)
	FLANGED FITTINGS		GRAB CHECK VALVE (FLANGED SHOWN)
	SOCKET WELD FITTINGS		PIPE COUPLING
	BUTT-WELD FITTINGS (SHOW BEVEL)		EXPANSION JOINT, FLANGED
	BALL VALVE (SHOWN WELD ENDS)		FLOW CONTROL VALVE (FLANGED SHOWN)
	GATE VALVE (FLANGED SHOWN)		SUBMERGED FLOW METER (FLANGED SHOWN)
	PLUG VALVE (FLANGED SHOWN)		PROPELLER FLOW METER (FLANGED SHOWN)
	BUTTERFLY VALVE (FLANGED SHOWN, WAFER OPERATED)		V-CONE FLOW METER (FLANGED SHOWN)
	BUTTERFLY VALVE (WAFER, LEVER OPERATED)		VORTUM FLOW METER (FLANGED SHOWN)

SOLID LINE PIPING INDICATES ABOVE GRADE PIPING UNLESS OTHERWISE NOTED

DASHED LINE PIPING INDICATES BELOW GRADE PIPING UNLESS OTHERWISE NOTED

DETAIL/SECTION REFERENCES

SECTION CUT AND VIEW DIRECTION (SHOWN AS REQUIRED)

SHEET FROM WHICH DETAIL IS VIEW REFERENCED

A — M-2

DETAIL OR SECTION NUMBER/LETTER

SHEET WHERE DETAIL IS VIEWED

SECTION OR DETAIL NUMBER/LETTER

A — M-4 — DETAIL SCALE: N.T.S.

SHEET WHERE DETAIL IS REFERENCED

STANDARD ABBREVIATIONS

AHWV	AUTOMATIC AIR RELEASE VALVE
A/C	AIR CONDITIONING
A/V	AUTOMATIC AIR VALVE
ADV	AUTOMATIC AIR VENT
ABM	ABOVE
ACP	ASBESTOS CEMENT PIPE
ACV	AUTOMATIC BUTTERFLY VALVE
ADJ	ADJUSTABLE
ADJ/SP	ADJUSTABLE METAL/PLASTIC STRIPS
AB-1	CURB SPECIFICATION (e.g. AB-1)
ACCM	ASPHALT-COATED CORRUGATED METAL PIPE
ACCV	AIR CHECK CHECK VALVE
ACP	ASBESTOS CEMENT PIPE
ADM	ADMIXTURE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFS	ABOVE FINISHED SLAB
AG	ABOVEGROUND GAS
AH	AIR HOLE
AL	ALUMINUM
ALT	ALTERNATE
AMB	AMBULATOR
ANC	ANCHOR OF DEFLECTION
ANCHOR	ANCHORAGE
AR	ARAMIDA SOLUTION
ARCH	ARCHITECT
ASPH	ASPHALT
BAV	BALL CHECK VALVE
BF	BLIND FLANGE
BFP	BACKFLOW PREVENTER
BFV	BUTTERFLY VALVE
BOD	BOARD DRAIN OPERATION
BP	BLACK PIPE
BR	BLACK PIPE
BRASS	BRASS OR OR BRASSWARE
BLDG	BUILDING
BLK	BRICK BLOCK
BOD	BACK OF CURB
BOF	BOTTOM OF WALL
BOT	BOTTOM
BPS	BLACK STEEL PIPE
BRCKT	BRACKET
BV	BALL VALVE
BW	BUTT WELD
BWB	BOUNDARY WALL
BWV	BUTTERFLY VALVE
C	CONDUIT (e.g. C-1)
CAP	CAP AND CUTTER
CB	CURB POST
CBV	CURB POST
CC	CURB VALVE
C/C	CENTER TO CENTER
CD	CONDENSED AIR
CAT	CATALOG
CATV	CABLE TELEVISION
CAV	CONTROL AIR VALVE
CBP	CONTROL BUFFER PUMP
CC	CONTROL CONTROL CHANNEL
CE	CONTROL EVALUATOR
CFS	CUBIC FEET PER SECOND
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
CIP	CAST IRON PIPE
CIPP	CAST IRON PIPE
CJ	CONTROL JOINT
CL	CENTER LINE
CLF	CHAIN LINK FENCE
CLR	CLEARANCE
CMP	CORRUGATED METAL PIPE
CMPA	CORRUGATED METAL PIPE ARCH
CO	CLEAN OUT
COC	CLEAN OUT CONNECT
COND	CONDUIT
CONC	CONCRETE
CONN	CONNECTION
CONTR	CONTRACTOR
CP	CONTROL POINT
CPP	CORRUGATE PIPE
CPA	CORRUGATE PIPE ARCH
CPLG	COUPLING
CPP	CORRUGATED POLYPROPYLENE PIPE
CPVC	CHLORINATED POLYVINYL CHLORIDE
CRS	CONTROL RESISTANCE SENSOR
CS	CONTROL SOLUTION
CV	CHECK VALVE
CW	COLD WATER
D	DRAIN
DB	DRAIN BOX
DBG	DRAINAGE
DCV	DOUBLE CHECK VALVE
DEM	DEMOLISH
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DJ	DRESSER COUPLING JOINT
DM	DRAIN MANHOLE
DMW	DEMONTRUCTION WATER
DN	DOWN
DWG	DRAWING
E	EXISTING
EA	EACH EACH
E/A	EACH WAY
EQ	EQUAL
EQC	EQUIPTING
EFF	EFFICIENT
EFO	EFFICIENT GRAB OPERATION
EJ	EXPANSION JOINT
EJCP	EXPANSION JOINT CONCRETE PIPE
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMBED	EMBEDMENT
EMBED	EMBEDMENT
EMT	ELECTRICAL METALLIC TUBING
EOP	EDGE OF PAVEMENT
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EQ	EQUAL
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
EVA	EXPANSION VALVE ACTUATOR
EW	EACH WAY
EXC	EXCAVATION
EXP	EXPANSION
F	FIRE
F/F	FACE TO FACE
FAB	FABRICATED
FC	FLEXIBLE COUPLING
FCA	FLANGE COUPLING ADAPTER
FCV	FLOW CONTROL VALVE
FD	FLOOR DRAIN
FE	FLOWED EFFLUENT
FF	FIRE FLOOR
FFV	FIRE FITTINGS
FH	FIRE HYDRANT
FIG	FIGURE
FIN	FINISHED
FL	FLOOR
FLDR	FLOODER
FLG	FLANGE
FLG(S)	FLANGE(S)
FLR	FLOOR
FM	FORCE MAIN
FO(LIG)	FIBER OPTIC (LIGHTCONDUIT)
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FRP	FIBERGLASS REINFORCED PLASTIC
FT	FOOT OR FEET
FV	FIRE VALVE
FW	FIRE WATER
G	GRADE
GA	GAUGE
GALV(D)	GALVANIZED
GC	GALVANIZED
GCI	GRAY CAST IRON
GEN	GENERATOR
GI	GALVANIZED IRON PIPE
GJ	GROOVE JOINT
GND	GROUND
GO	GROUND
GPD	GALLONS PER DAY
GPM	GALLONS PER MINUTE
GPS	GALLONS PER SECOND
GR	GRADE
GRL	GRAVEL
GSP	GALVANIZED STEEL PIPE
GST	GROUND STORAGE RESERVOIR
GT	GROUND STORAGE TANK
GV	GATE VALVE
GW	GAS WELL
H	HEAT
HAZ	HAZARDOUS
HDPE	HIGH DENSITY POLYETHYLENE
HDS	HYDROGEN DIOXIDE SOLUTION
HF	HYDROFLUORIC ACID
HFCD	HIGH FLANGED COUPLING
HG	HAND
HGT	HEIGHT
HP	HORSEPOWER
HPA	HIGH PRESSURE AIR
HR	HOUR
HS	HIGH SERVICE PUMP
HT	HEIGHT
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING
HW	HOT WATER
HWL	HIGH WATER LEVEL
HYD	HYDRANT
HYDR	HYDRAULIC
HYDRO	HYDROSTATIC
I	INTERNAL MIXED DOUBLE ACTION
IB	INSERT
IC	INTERCOM
ID	INSIDE
IDP	INTERNATIONAL PIPE STANDARD
INCL	INCLUDE
INCR	INCREMENTAL
INT	INTERIOR
INV	INVERT
IPS	INTERNATIONAL PIPE STANDARD
IRR	IRRIGATION
J	JOINT
JB	JUNCTION BOX
JT	JOINT
KGT	KNIFE GATE VALVE
KV	KNIFE
L	LAVATORY
LAM	LAMINATE OR LAMINATION
LAV	LAVATORY
LB	LOAD
LBS	POUNDS
LCD	LIQUID CRYSTAL DISPLAY
LDPE	LINEAR LOW-DENSITY POLYETHYLENE
LF	LINEAR FEET
LG	LARGE
LIN	LINEAR
LIN FT	LINEAR FEET
LP	LOW PRESSURE
LPS	LOW PRESSURE STEAM
LS	LIME STABILIZED SLUDGE
LSP	LIGHT STEEL POST
LT	LIGHT
LTG	LIGHTING
LTR	LITER
LV	LOUVER
LVL	LEVEL
LVR	LOUVER
M	MAGNET
MAN	MANUAL
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL (SECTION)
MGD	MILLION GALLONS PER DAY
MH	MANHOLE
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
MJ	MECHANICAL JOINT
MLD	MILLION GALLONS PER DAY
MLS	MIXED LIQUOR SUSPENDED SOLIDS
MOD	MODIFY
MOV	MOTOR OPERATED VALVE
MPA	MEGAPASCAL
MPN	MOST PROBABLE NUMBER
MPS	MEGAPASCAL
MS	MANHOLE
MSL	MEAN SEA LEVEL
MT	MOUNTED
MTG	MOUNTING
MTL	METAL
MUNI	MUNICIPAL
N	NEW
NA	NOT APPLICABLE
NAOH	SODIUM HYDROXIDE
NC	NORMALLY OPEN
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NOM	NOMINAL
NPT	NATIONAL PIPE THREAD
NTS	NOT TO SCALE
OA	OVERALL
OAH	OVERHEAD AND MAINTENANCE
OC	OR CENTER
OD	OUTSIDE DIAMETER
OE	OUTSIDE TO OUTSIDE
OH	OVERHEAD
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OFF	OFFSET
OH	OVER HEAD
OPL	OPTICAL PLATE
OPP	OPPOSITE
OPT	OPTIONAL
OPT	OPTIONAL
OVF	OVERFLOW
P	PRESSURE
P-A	PRESSURE LINE
PA	PRESSURE AIR
PBM	PLACING BALL VALVE
PC	POINT OF CURVE
PE	PLAIN END
PEX	POLYETHYLENE PIPE
PFM	PERMANENT GAUGE
PG	PROPRIETARY GAUGE
PGL	PROPRIETARY GAUGE LINE
PI	PROPRIETARY INDEX
PLC	PROGRAMMABLE LOGIC CONTROLLER
PM	PREVENTIVE MECHANICAL
PRV	PRESSURE VALVE
PS	POINT OF SEGMENT
PT	POINT OF TANGENCY
PJ	PUSH-ON JOINT
PVC	POLYVINYL CHLORIDE
PVC-O	POLYVINYLCHLORIDE (BIOALE CONTAINER)
PVDF	POLYVINYLIDENE FLUORIDE (DYNAM)
PWT	POTABLE WATER
PW	PLUG
QTY	QUANTITY
R	RADIUS
R.O.W.	RIGHT OF WAY
RAS	RETURN ACTIVATED SLUDGE
RB	RAW BLOCK
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RCPA	REINFORCED CONCRETE PIPE ARCH
RD	ROUNDED RIVER
REF, RF	REFLECTED
REINF	REINFORCING STEEL
REQ'D	REQUIRED
RES	RESIDUAL
RESIDUAL	RESIDUAL WATER
RF	RAISED FACE
RFP	REQUEST FOR PROPOSAL
RIM	RIM
RIM	RIM
RIP	RIPRAP
RM	ROOM
RMS	ROOT MEAN SQUARE
RO	RAISED OR RECESSED
RPM	REVOLVED PER MINUTE
RPM	REVOLVED PER MINUTE
RS	RAINFALL SENSOR
S	SOUTH
S.F.	SQUARE FOOT
SA	SUPPLY AIR
SAD	SUPPLY AIR DUCT
SAE	SUPPLY AIR EXHAUST
S.L.	SQUARE LINE
S.M.	SQUARE METER
SAN	SANITARY
SCH	SCHEDULE
SCH	SCHEDULE
SCV	SLUICE CHECK VALVE
SD	STORM DRAIN
SDR	STANDARD DIMENSION RATIO
SE	SUPPLY EXHAUST
SEC	SECTION
SEC	SECTION
SEC	SECONDARY EFFLUENT
SF	SQUARE FOOT OR FEET
SFT	SUPPLY FOOT
SG	SIGHT GLASS
SH	SHEET
SHT	SHEET
SI	SLIP
SIM	SIMILAR
SL	SLIP
SLD	SOLID
SLS	SOLUTION
SP	STL PIPE
SPECIFIED	SPECIFICATION
SPT	STANDARD PENETRATION TEST
SPT-12	STANDARD PENETRATION TEST BORING (e.g. SPT-1)
SQ	SQUARE
SR	SANITARY SEWER
SRE	SECONDARY EFFLUENT
SS	SANITARY SEWER
SSD	SAND
STA	STATION
STD	STANDARD
STL	STEEL
STLCNR	STEEL CONNECTOR
STRNR	STRAINER
STV	SANITARY VALVE
SV	SUPPLIED VALVE
SWO	SERVICE WATER
SW	SANITARY
SWP	SANITARY SEWER PUMP
SWR	SANITARY SEWER
T	TEMPERATURE DEPTH
TBD	TO BE DETERMINED
TBM	TEMPORARY BENCHMARK
TBR	TOP OF BOTTOM
TC	TOP OF CONCRETE
TOC	TOP OF CURB
TOF	TOP OF FOOTING
TOP	TOP
TOPSOIL	TOPSOIL
TOS	TOP OF STEEL
TOW	TOP OF WALL
TP	TEST POINT
TPD	TONS PER DAY
TPH	TONS PER HOUR
TPM	TONS PER MINUTE
TPS	TONS PER SECOND
TS	TOP OF SLOPE
TSB	TOP OF SLOPE BLOCK
TSP	TOP OF STEEL POST
TT	TOP OF TANK
TTL	TOTAL
TTY	TELETYPE
TV	TELEVISION
TW	TOP OF WALL
TYP	TYPICAL
U	UNIT
UC	UNDERGROUND CABLE
UCC	UNDERGROUND CABLE
UG	UNDERGROUND
UNF	UNIFORM
UNO	UNLESS OTHERWISE NOTED
UNO	UNLESS OTHERWISE NOTED
UP	UNDERGROUND PIPE
UR	URINAL
V	VALVE
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VEL	VELOCITY
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VOL	VOLUME
VR	VOLT REDUCED RAMP
VTR	VENT TRAP
W	WATER
WL	WATER LEVEL
WP	WALL PIPE (WITH WATER STOP)
WS	WASH
W/	WITH
WO	WITHOUT
WAS	WASTE ACTIVATED SLUDGE
WBD	WIRE BOND
WC	WALL CLEAN OUT
WD	WALL DRAIN
WF	WALL FOUNDATION
WG	WATER GAUGE
WM	WATER MAIN
WP	WORKING PRESSURE
WPD	WELDED STEEL (PVC)
WS	WATER SERVICE
WSF	WATER SEDIMENT FACILITY
WTP	WATER TREATMENT PLANT
WW	WASTEWATER
WWF	WELDED WIRE FABRIC
WWL	WASTEWATER LINE
WWSF	WASTEWATER SEDIMENT FACILITY
WWTP	WASTEWATER TREATMENT PLANT
WYE	WYE
XHDPE	CROSSLINKED HIGH-DENSITY POLYETHYLENE
XLPE	CROSSLINKED POLYETHYLENE
YD	YARD
YDM	YARD DRAIN
YS	YARD SIGN

NOTE: THIS LEGEND IS FOR GENERAL REFERENCE. NOT ALL ABBREVIATIONS, SYMBOLS, PROCEDURES, INTERFACE, OR ITEMS MAY BE USED IN THIS DESIGN, NOR IS THIS LEGEND COMPREHENSIVE. REFER TO INDIVIDUAL DRAWING LEGEND/MAP SYMBOLS ARE NOT LISTED. INDIVIDUAL DISCIPLINE STANDARD LEGEND SUPERCEDES THIS GENERAL LEGEND, IF PROVIDED.

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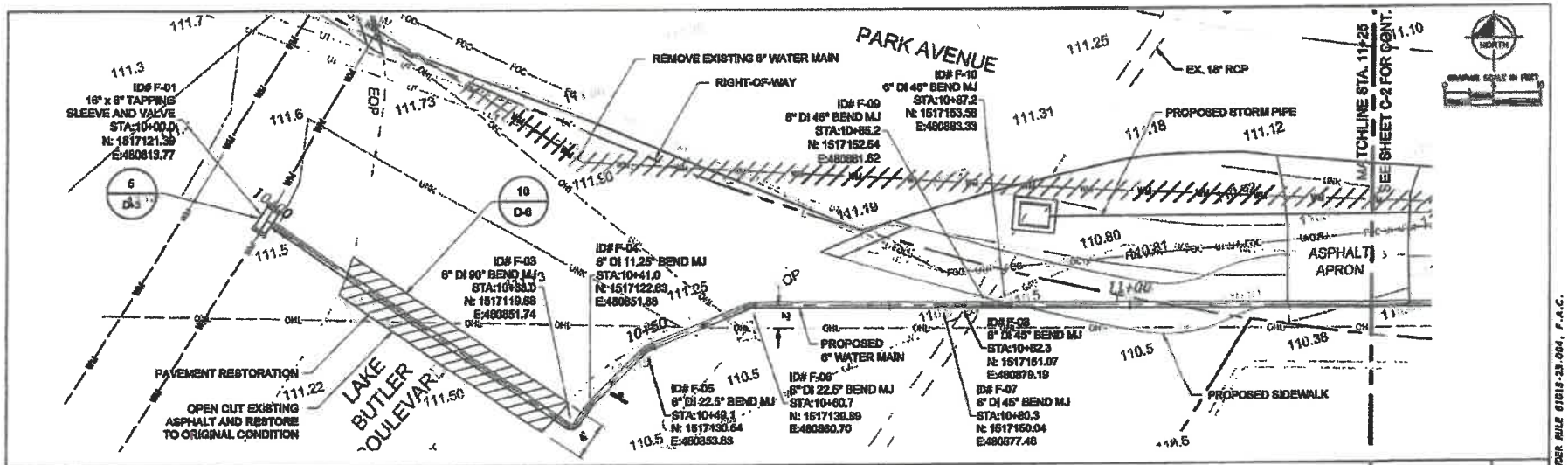
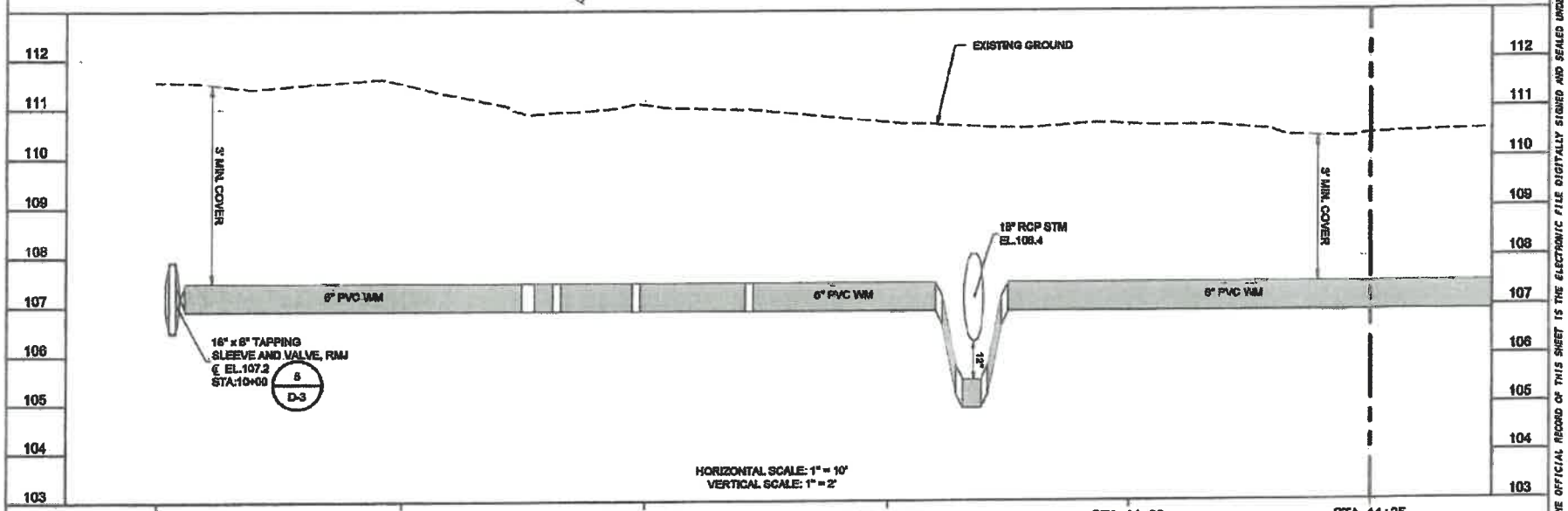
PARK AVENUE UTILITY RELOCATIONS

SYMBOLS AND ABBREVIATIONS

SHEET NO. G-1

DESIGNED DRAWN CHECKED DATE





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PARK AVENUE UTILITY RELOCATIONS

PLAN AND PROFILE

SHEET NO. C-1

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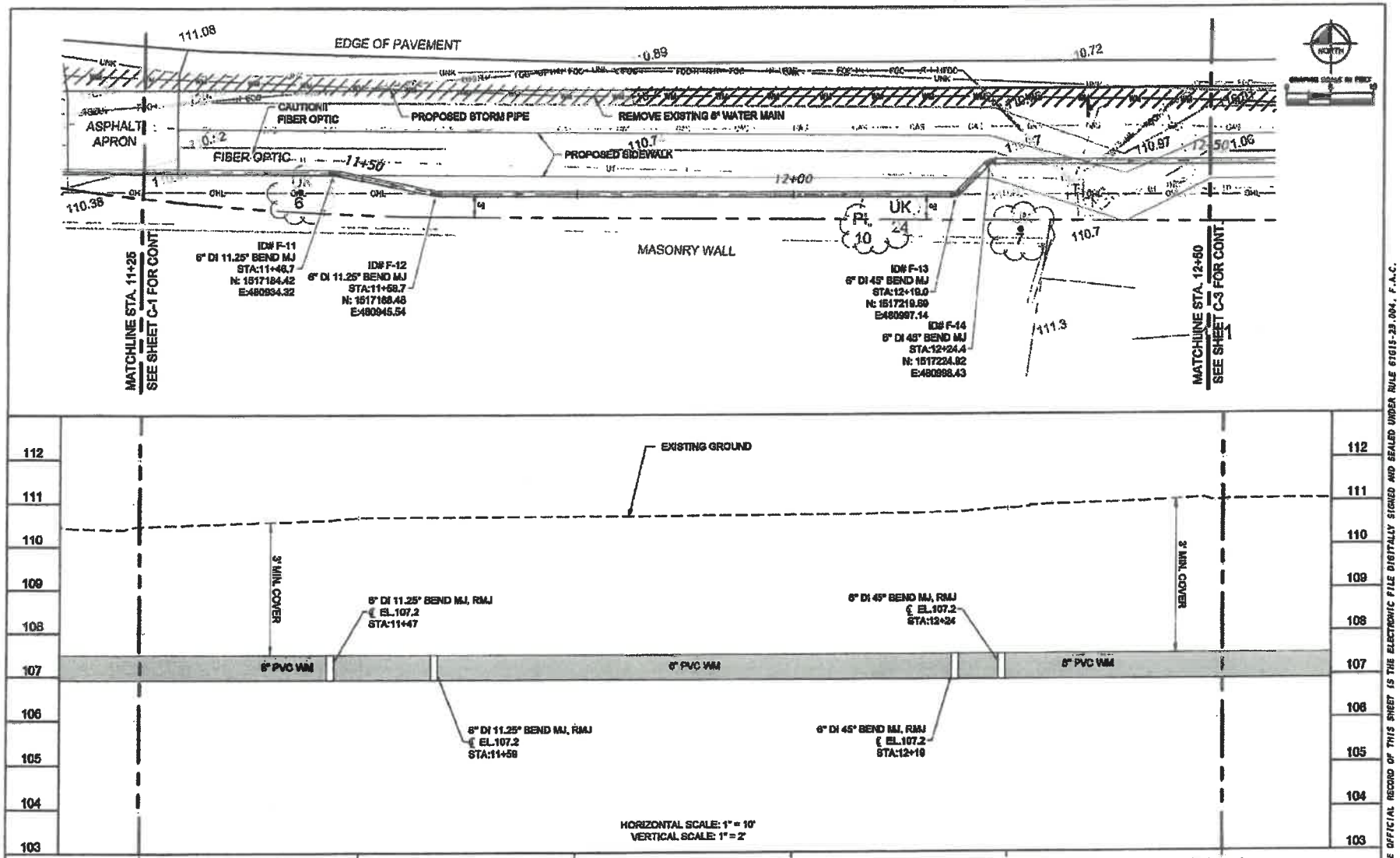

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PARK AVENUE UTILITY RELOCATIONS

PLAN AND PROFILE

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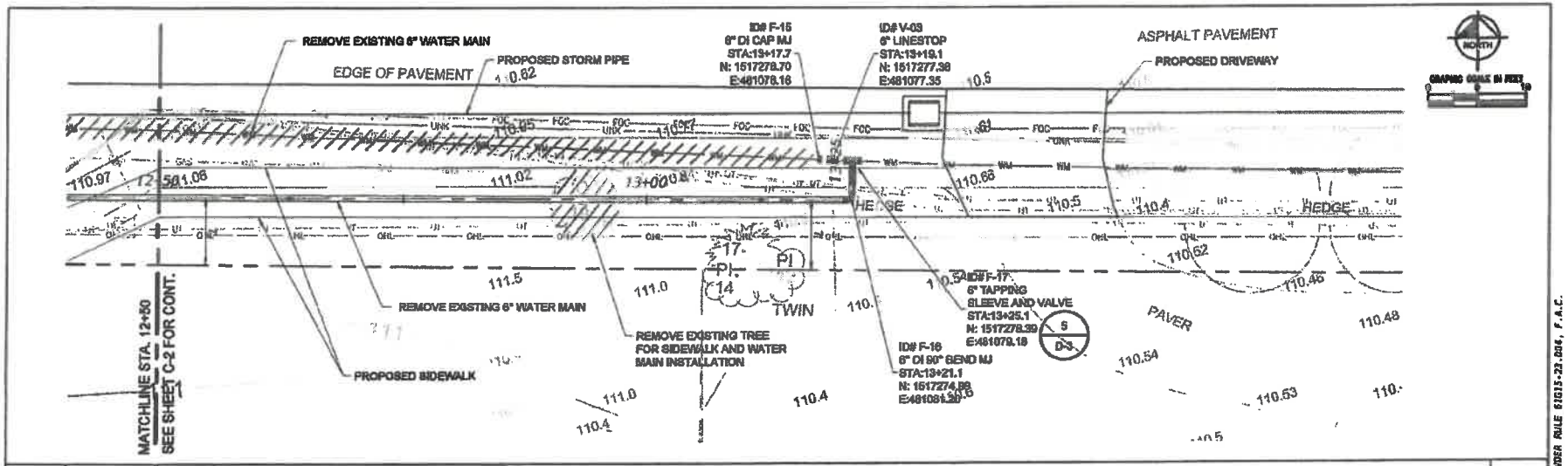

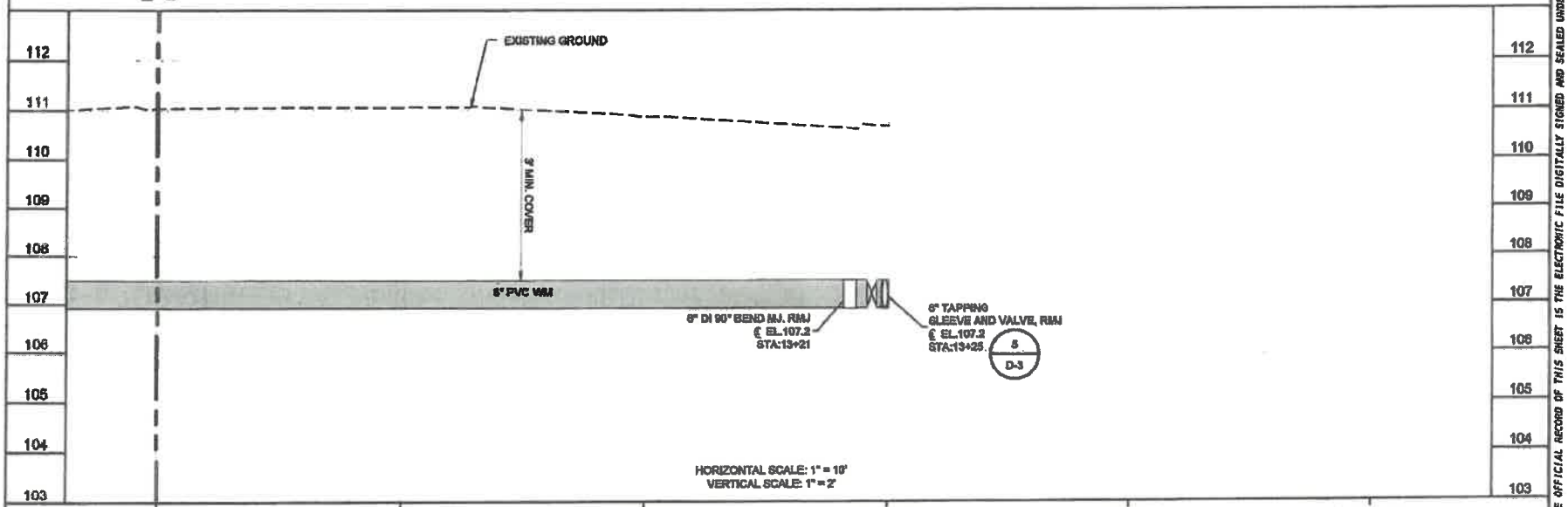

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PARK AVENUE UTILITY RELOCATIONS

PLAN AND PROFILE

SHEET NO. C-3

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

FITTING TABLE					
ID NUMBER	DESCRIPTION	STATION	ELEVATION	NORTHING	EASTING
F-01	16" x 6" TAPPING SLEEVE AND VALVE	10+00.0	107.2	1517121.39	480813.77
F-03	6" DI 90° BEND MJ	10+38.0	107.2	1517119.88	480851.74
F-04	6" DI 11.25° BEND MJ	10+41.0	107.2	1517122.63	480851.88
F-05	6" DI 22.5° BEND MJ	10+49.1	107.2	1517130.54	480853.83
F-06	6" DI 22.5° BEND MJ	10+60.7	107.2	1517139.89	480860.70
F-07	6" DI 45° BEND MJ	10+80.3	107.2	1517150.04	480877.48
F-08	6" DI 45° BEND MJ	10+82.3	105.2	1517151.07	480879.19
F-09	6" DI 45° BEND MJ	10+85.2	105.2	1517152.54	480881.62
F-10	6" DI 45° BEND MJ	10+87.2	107.2	1517153.58	480883.33
F-11	6" DI 11.25° BEND MJ	11+48.7	107.2	1517184.42	480934.32
F-12	6" DI 11.25° BEND MJ	11+58.7	107.2	1517188.48	480945.54
F-13	6" DI 45° BEND MJ	12+19.0	107.2	1517219.69	480997.14
F-14	6" DI 45° BEND MJ	12+24.4	107.2	1517224.92	480998.43
F-15	6" DI CAP MJ	13+17.7	107.4	1517276.70	481076.16
F-16	6" DI 90° BEND MJ	13+21.1	107.2	1517274.99	481081.20
F-17	6" TAPPING SLEEVE AND VALVE	13+25.1	107.2	1517276.39	481079.18

VALVE ASSET TABLE					
ID NUMBER	DESCRIPTION	STATION	ELEVATION	NORTHING	EASTING
V-01	6" GV MJ	10+02.4	107.2	1517121.28	480816.19
V-02	6" GV MJ	13+23.4	107.2	1517276.94	481080.05
V-03	6" LINESTOP	13+19.1	107.4	1517277.38	481077.35

REVISIONS

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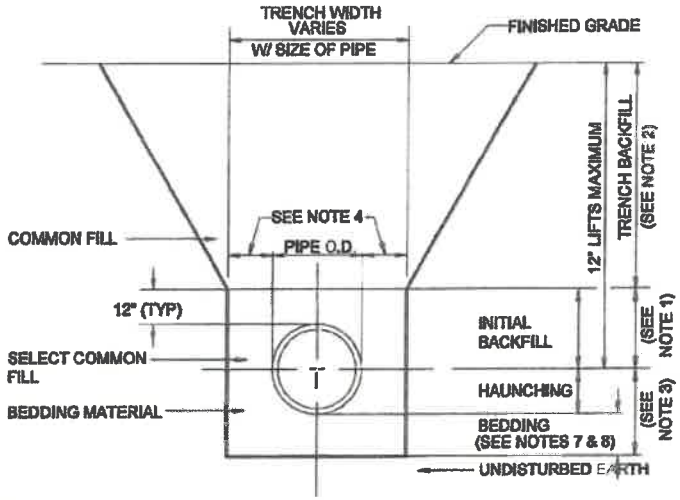
PARK AVENUE UTILITY RELOCATIONS

ASSET TABLE

SHEET NO.

C-4

DATE: February 11, 2011 **BEDDING AND TRENCHING - TYPE A** **FIGURE A101**



NOTES:
1. INITIAL BACKFILL: SELECT COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
3. TYPE A BEDDING MATERIAL SHALL CONFORM TO FDOT NO. 57 AGGREGATE.
4. 15" MAX. (12" MIN.) FOR PIPE DIAMETER LESS THAN 24" AND 24" MAX (12" MIN) FOR PIPE DIAMETER 24" AND LARGER.
5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
7. BEDDING DEPTH SHALL BE 4" MINIMUM FOR PIPE DIAMETER UP TO 12" AND 6" MINIMUM FOR PIPE DIAMETER 16" AND LARGER.
8. DEPTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL GOVERN DEPTH OF BEDDING ROCK BELOW THE PIPE. UTILITIES SHALL DETERMINE IN THE FIELD REQUIRED REMOVAL OF UNSUITABLE MATERIAL TO REACH SUITABLE FOUNDATION.
9. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN ORANGE COUNTY RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF R/W UTILIZATION REGULATIONS AND ROAD CONSTRUCTION SPECIFICATIONS.

DETAIL 1 / D-1

NO SCALE

DATE: February 11, 2011 **RESTRAINED PIPE TABLE WATER AND RECLAIMED WATER MAINS** **FIGURE A104-1**

MINIMUM LENGTH (FT) TO BE RESTRAINED ON EACH SIDE OF FITTING(S)

TYPE	PIPE SIZE									
	PVC					DIP				
	4"	6"	8"	10"	12"	16"	20"	24"	30"	36"
90° BEND	25	36	46	55	64	65	77	89	105	120
45° BEND	10	15	19	23	26	27	32	37	44	50
22-1/2° BEND	5	8	9	11	13	13	15	18	21	24
11-1/4° BEND	3	4	5	6	8	7	8	9	10	12
PLUG OR BRANCH OF TEE	53	74	97	117	135	138	166	194	231	265
VALVE	27	38	49	59	68	69	83	97	116	133
REDUCER	VARIES BY SIZE; TO BE DETERMINED BY THE DESIGN ENGINEER.									

NOTES:
1. FITTINGS SHALL HAVE RESTRAINED JOINTS UNLESS OTHERWISE INDICATED.
2. INSTALL FULL LENGTH JOINTS WITH TOTAL LENGTH EQUAL TO OR GREATER THAN LENGTH SHOWN IN THE TABLE.
3. WHERE TWO OR MORE FITTINGS ARE IN SERIES, SELECT FITTING RESTRAINT LENGTH THAT YIELDS THE LONGEST RESTRAINT DISTANCE.
4. ALL INLINE VALVES SHALL BE RESTRAINED.
5. WHERE INTERNAL RESTRAINED JOINTS ARE USED, THE ENTIRE BELL SHALL BE PAINTED RED.
6. LENGTHS SHOWN IN THE TABLE WERE CALCULATED IN ACCORDANCE WITH PROCEDURES OUTLINED IN "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" GUIDELINES PUBLISHED BY DIPRA, USING THE ASSUMPTIONS SHOWN BELOW:

WORKING PRESSURE: 160 PSI
SOIL DESIGNATION: SM (SAND SILT)
LAYING CONDITIONS: 3
DEPTH OF COVER: 3 FT
SAFETY FACTOR: 1.5
CONVERSION FACTOR FOR PVC PIPE: 1.25

THE DESIGN ENGINEER SHALL INCREASE THE VALUES IN THE TABLE AS WARRANTED BY SITE-SPECIFIC SOIL DESIGNATIONS, LAYING CONDITIONS, PIPE MATERIAL, ETC. FOR DIP ENCASED IN POLYETHYLENE, INCREASE THE GIVEN VALUE BY A FACTOR OF 1.25.

DETAIL 2 / D-1

NO SCALE

REVISIONS			
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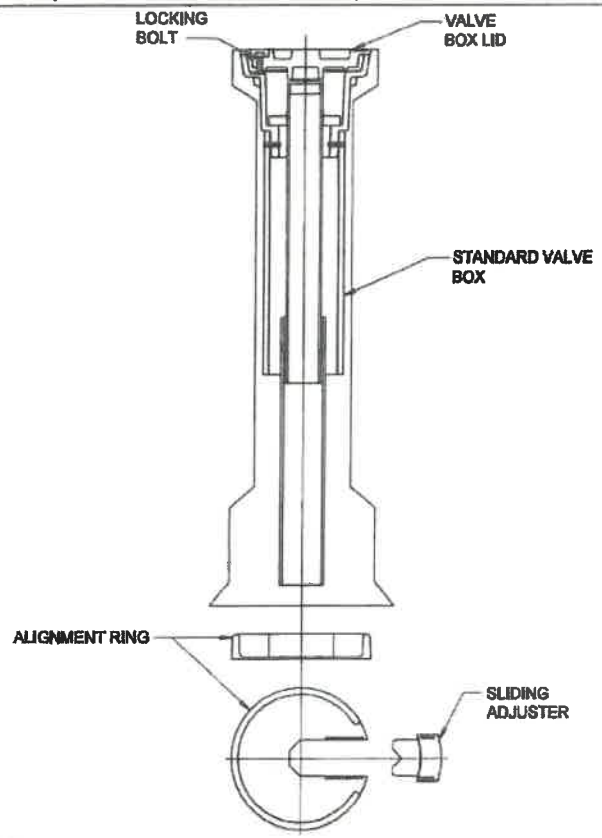
PARK AVENUE UTILITY RELOCATIONS

DETAILS – 1

SHEET NO. D-1

DATE: February 11, 2011 | SEALED VALVE BOX, ADJUSTABLE | FIGURE A111

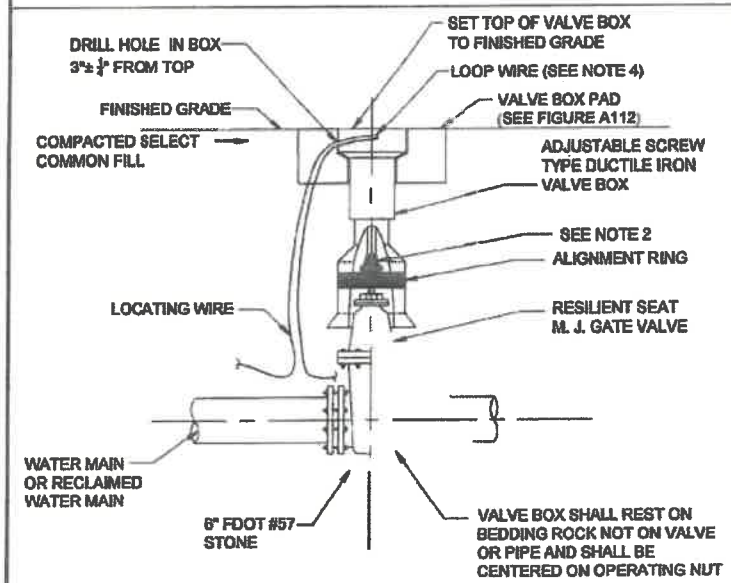


NOTES:
1. FOR ALL MAINS 6' DEEP OR GREATER.
2. FOR MAINS 16" IN DIAMETER OR GREATER REGARDLESS OF DEPTH.

DETAIL 3/D-2

NO SCALE

DATE: February 11, 2011 | GATE VALVE AND BOX WATER AND RECLAIMED WATER MAINS | FIGURE A107



NOTES:
1. PVC PIPE OR DUCTILE IRON PIPE EXTENSIONS SHALL NOT BE USED ON VALVE BOX INSTALLATION.
2. THE VALVE ACTUATING NUT SHALL BE EXTENDED TO BE WITHIN 3' OF FINISHED GRADE.
3. PROVIDE A PLASTIC DEBRIS SHIELD / ALIGNMENT RING WHICH INSTALLS BELOW THE VALVE ACTUATING NUT. THIS SHIELD SHALL CENTER THE RISER PIPE BOX OVER THE ACTUATING NUT AND MINIMIZE INFILTRATION.
4. LOCATING WIRE SHALL BE CONTINUOUS WITH NO SPLICES AND SHALL EXTEND 12" ABOVE TOP OF COLLAR. WIRE SHALL BE COLOR CODED TO MATCH THE UTILITY INSTALLED.
5. FOR NEW CONSTRUCTION, THE VALVE BOX SHALL BE ADJUSTED TO MIDRANGE TO ALLOW FOR FUTURE BOX ADJUSTMENTS.
6. REFER TO FIGURE A111 FOR INSTALLATIONS AT A DEPTH OF 6' OR GREATER.

DETAIL 4/D-2

NO SCALE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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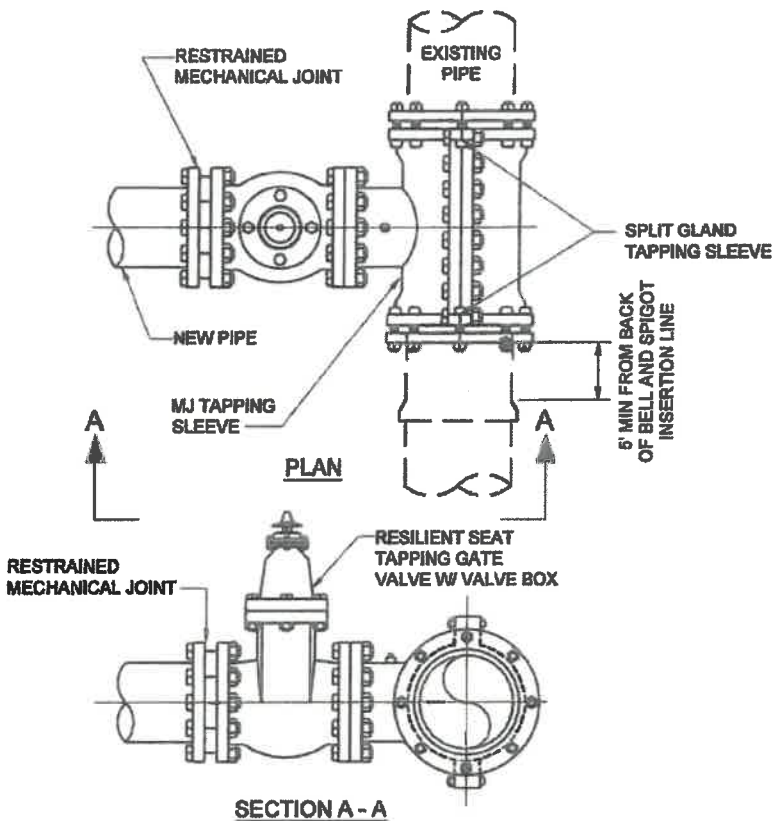
PARK AVENUE UTILITY RELOCATIONS

DETAILS – 2

SHEET NO. D-2

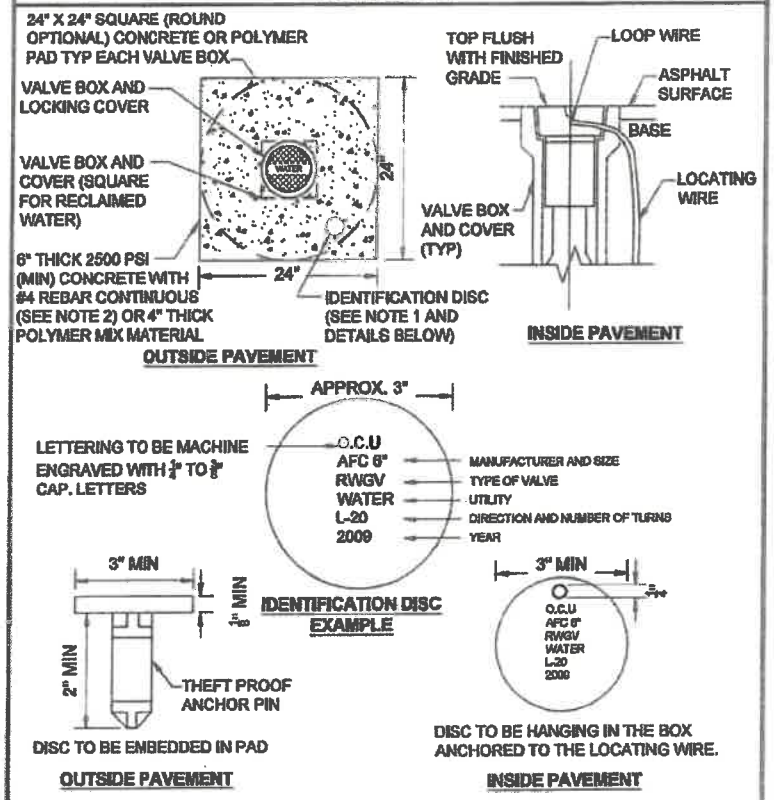
DATE: February 11, 2011 **MJ TAPPING SLEEVE AND GATE VALVE ASSEMBLY FOR WATER AND RECLAIMED WATER** FIGURE A121-1



DETAIL 5/D-3

NO SCALE

DATE: February 11, 2011 **VALVE BOX PAD** FIGURE A112



NOTES:

1. BRONZE (OR STAINLESS STEEL) IDENTIFICATION DISC SHALL BE REQUIRED FOR ALL VALVES, EXCEPT HYDRANT VALVES.
2. IN LIEU OF PRECAST CONCRETE PAD, A 6" THICK X 24" (ROUND OR SQUARE) POURED CONCRETE PAD WITH TWO #4 REBAR AROUND PERIMETER MAY BE USED.

DETAIL 6/D-3

NO SCALE

REVISIONS			
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PARK AVENUE UTILITY RELOCATIONS

DETAILS - 3

SHEET NO. D-3

DATE: February 11, 2011 **SEPARATION REQUIREMENTS FOR WATER, WASTEWATER AND RECLAIMED WATER MAINS** **FIGURE A116**

HORIZONTAL & VERTICAL SEPARATION REQUIREMENTS								
PROPOSED UTILITY	POTABLE WATER		RECLAIMED WATER		WASTEWATER (GRAVITY & FM)		STORM SEWER	
	HORIZ	VERT	HORIZ	VERT	HORIZ	VERT	HORIZ	VERT
POTABLE WATER	3' NOTE 1	12"	3' NOTE 1 & 3	12" NOTE 3	6' NOTE 3	12" NOTE 3	3' NOTE 1 & 3	12"/18" NOTE 2 & 3
RECLAIMED WATER	3' NOTE 1 & 3	12" NOTE 3	3' NOTE 1	12"	3' NOTE 1	12"	3' NOTE 1	12"/18" NOTE 2
WASTEWATER (GRAVITY AND FM)	6' NOTE 3	12" NOTE 3	3' NOTE 1	12"	3' NOTE 1	12"	3' NOTE 1	12"/18" NOTE 2
RIGHT OF WAY	3' NOTE 1	N/A	3' NOTE 1	N/A	3' NOTE 1	N/A	N/A	N/A

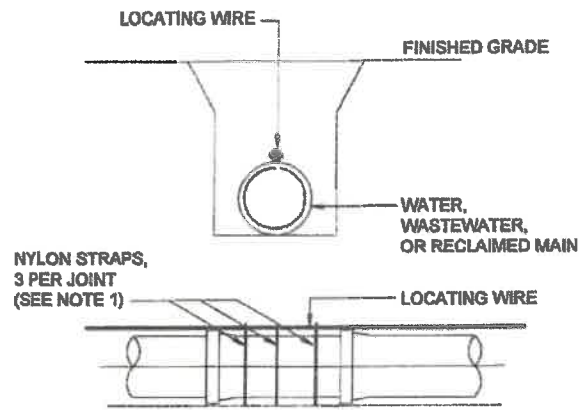
NOTES:

1. THIS SEPARATION REQUIREMENT IS TO PROVIDE ACCESSIBILITY FOR CONSTRUCTION AND MAINTENANCE. THREE FEET OF HORIZONTAL SEPARATION IS THE MINIMUM FOR PIPES WITH THREE FEET OF COVER. FOR PIPES INSTALLED AT GREATER DEPTHS, PROVIDE AN ADDITIONAL FOOT OF SEPARATION FOR EACH ADDITIONAL FOOT OF DEPTH.
2. THE 18-INCH SEPARATION REQUIREMENT APPLIES WHEN THE STORM PIPE CROSSES ABOVE THE OCU MAIN, AND WHEN THE STORM PIPE HAS A DIAMETER EQUAL TO OR GREATER THAN 24 INCHES. OTHERWISE, THE REQUIRED SEPARATION IS 12 INCHES.
3. THIS SEPARATION REQUIREMENT COMPLIES WITH MINIMUM FDEP SEPARATION REQUIREMENTS OUTLINED IN 62-555.314, FAC. VARIANCES FROM THE FDEP REQUIREMENTS MUST COMPLY WITH 62-555.314(5), FAC AND MUST BE APPROVED INDIVIDUALLY BY BOTH FDEP AND OCU.
4. DISTANCES GIVEN ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
5. NO WATER PIPE SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF SANITARY OR STORM WATER MANHOLE OR STRUCTURE.

DETAIL 7/D-4

NO SCALE

DATE: April 15, 2007 **PIPE LOCATING WIRE** **FIGURE A114**



NOTES:

1. ALL PIPE SHALL REQUIRE INSULATED LOCATING WIRE (10 GAUGE SOLID COPPER) CAPABLE OF DETECTION BY A CABLE LOCATOR AND SHALL BE WRAPPED WITH NYLON STRAPS TO TOP CENTERLINE OF THE PIPE.
2. LOCATING WIRE SHALL TERMINATE INSIDE THE TEST STATION BOX AND SHALL EXTEND 12" ABOVE TOP OF COLLAR.

DETAIL 8/D-4

NO SCALE

REVISIONS			
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PARK AVENUE UTILITY RELOCATIONS

DETAILS - 4

SHEET NO. D-4

DATE: April 15, 2007 | GENERAL NOTES | FIGURE A122-1

GENERAL NOTES:

1. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN EXCAVATING IN PROXIMITY OF WATER MAINS, WASTEWATER FORCE MAINS, GRAVITY MAINS AND RECLAIMED WATER MAINS. MAIN LOCATIONS SHOWN ON PLANS ARE NOT EXACT OR GUARANTEED. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXISTING UTILITY LOCATIONS.
2. THE UTILITIES DISPATCH OPERATOR (407-836-2777) SHALL BE NOTIFIED BY THE CONTRACTOR FOR PIPE EMERGENCIES.
3. UTILITIES ENGINEERING AND CONSTRUCTION DIVISION: 407-254-9900.
4. ALL EXISTING WATER, FORCE, GRAVITY AND RECLAIMED WATER MAINS AND OTHER FACILITIES WITHIN THE LIMITS OF THE PROJECT SHALL BE SUPPORTED AND PROTECTED AGAINST DAMAGE DURING CONSTRUCTION.
5. CONTRACTOR SHALL ADJUST VALVE BOXES, AIR RELEASE VALVES, FIRE HYDRANTS, MANHOLE COVERS, ETC IN CONFLICT WITH ROADWAY.
6. THE CONTRACTOR, AT THE CONTRACTOR'S EXPENSE, SHALL IMMEDIATELY REPAIR ALL DAMAGES TO UTILITIES' MAINS AND FACILITIES. IF THE REPAIR IS NOT MADE IN A TIMELY MANNER, AS DETERMINED BY UTILITIES, UTILITIES MAY PERFORM REQUIRED REPAIRS AND CLEANUP. THE CONTRACTOR WILL BE CHARGED FOR ALL EXPENSES ASSOCIATED WITH THE REPAIR.
7. UTILITIES CONSTRUCTION DIVISION SHALL BE NOTIFIED AT LEAST SEVEN (7) DAYS PRIOR TO ANY CONSTRUCTION ACTIVIT YWITHIN PROXIMITY OF ANY UTILITIES.
8. ONLY UTILITIES SHALL OPERATE WATER, WASTEWATER, AND RECLAIMED WATER VALVES. COORDINATE VALVE OPERATION WITH APPROPRIATE UTILITIES INSPECTOR.
9. THE CONTRACTOR SHALL COORDINATE ALL PUMP STATION OPERATION AND SHUT DOWN CONTROL WITH A UTILITIES INSPECTOR. THE CONTRACTOR SHALL PROVIDE FOR BYPASSING AND/OR HAULING OF WASTEWATER DURING THE INTERRUPTION OF FLOWS AND CONNECTIONS WITH EXISTING WASTEWATER SYSTEMS.
10. ALL NEW VALVES BEING INSTALLED SHALL REMAIN CLOSED DURING CONSTRUCTION. KEEP VALVES ON ALL WET TAPS CLOSED UNTIL CLEARED BY FDEP. DO NOT CONNECT ANY PROPOSED WATER MAIN TO ANY EXISTING WATER MAIN UNLESS CLEARED BY FDEP AND UTILITIES.

DETAIL 9 / D-5

NO SCALE

DATE: April 15, 2007 | GENERAL NOTES | FIGURE A122-2

GENERAL NOTES:

11. THE UTILITY IMPROVEMENTS AND ADJUSTMENTS SHOWN ON THESE PLANS ARE INTENDED TO MAINTAIN THE INTEGRITY OF THE ORANGE COUNTY WATER, WASTEWATER AND RECLAIMED WATER SYSTEMS. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MANUAL. THE PLANS DO NOT INCLUDE WORK PERFORMED ON OR FOR UTILITY SYSTEMS OWNED BY OTHERS, UNLESS STATED OTHERWISE ON THE PLANS.
12. ALL EXISTING AND NEW ORANGE COUNTY UTILITIES VALVES, VALVE BOXES, AND MANHOLES SHALL BE PROTECTED AND ADJUSTED TO FINISHED GRADE AS SHOWN ON THE DRAWINGS. ALL EXISTING ABOVE GROUND VALVES TO BE RELOCATED, AS REQUIRED.
13. MAKE TEMPORARY CONNECTIONS TO AN EXISTING POTABLE WATER SOURCE; FLUSH OUT NEW WATER MAIN WITH POTABLE WATER (USE "JUMPER" ASSEMBLY WITH BACKFLOW PREVENTER TO MAKE TEMPORARY CONNECTIONS TO AN EXISTING WATER SOURCE).

DETAIL 10 / D-5

NO SCALE

REVISIONS			
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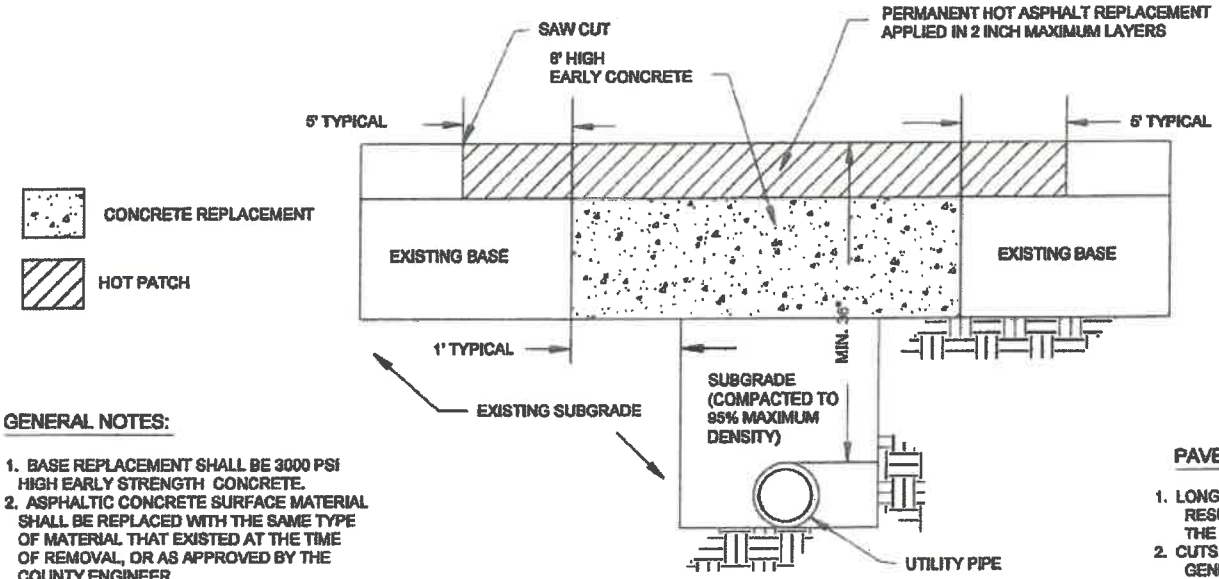
PARK AVENUE UTILITY RELOCATIONS

DETAILS - 5

SHEET NO. D-5

NOTE:

SUB-GRADE CUT TO BE COMPACTED TO 95% MAX. DENSITY AS DETERMINED BY AASHTO T-180 CUT TO BE REPLACED WITH AN 8' 3000 PSI HIGH EARLY CONCRETE TO TOP OF EXISTING BASE. CUT AREA TO BE PLATED OR PROTECTED ON THE DAY OF POUR. EXISTING SURFACE TO BE CUT TO AN AREA 5 FEET BEYOND BASE CUT.



GENERAL NOTES:

1. BASE REPLACEMENT SHALL BE 3000 PSI HIGH EARLY STRENGTH CONCRETE.
2. ASPHALTIC CONCRETE SURFACE MATERIAL SHALL BE REPLACED WITH THE SAME TYPE OF MATERIAL THAT EXISTED AT THE TIME OF REMOVAL, OR AS APPROVED BY THE COUNTY ENGINEER.
3. MINIMUM ASPHALTIC CONCRETE SURFACE OVERLAY THICKNESS SHALL BE ONE (1") INCH, OR AS APPROVED BY THE COUNTY ENGINEER.
4. ALL JOINT CUTS SHALL BE MECHANICALLY SAW CUT.

PAVEMENT RESTORATION

1. LONGITUDINAL CUTS MAY REQUIRE OVERLAY/ RESURFACING OF THE COMPLETE WIDTH OF THE TRAVELLED WAY.
2. CUTS AT INTERSECTIONS OF STREETS GENERALLY MAY REQUIRE A COMPLETE OVERLAY/ RESURFACING TO THE END OF ALL RETURN RADII AND ALSO TO A POINT TEN (10') FEET BEYOND THE CUT, WHICHEVER IS GREATER.
3. ACTUAL REQUIREMENTS WILL BE AS STATED ON THE APPROVED PERMIT.

STANDARD ROADWAY OPENCUT DETAIL

(FIG. 703)

FINAL RESTORATION - TYPICAL OF MAJOR OPEN CUTS

DETAIL 10 / D-6

NO SCALE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley»Horn
Certificate Of Authorization No. 696
STEPHEN H. ROMANO, P.E.
P.E. License No. 37278
189 South Orange Avenue, Suite 1000
Orlando, Florida 32801

ORANGE COUNTY UTILITIES DEPARTMENT

PARK AVENUE UTILITY RELOCATIONS

DETAILS – 6

SHEET NO.

D-6

EXHIBIT C TO ATTACHMENT A

QUOTE

PAY ITEM #	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
1	MOBILIZATION DEMOBILIZATION AND BONDS (5% MAXIMUM)	LS	1	11461	11461
2	INDEMNIFICATION	LS	1	50	50
3	PRECONSTRUCTION VIDEO	LS	1	429	429
4	RECORD DRAWINGS	LS	1	2573	2573
5	MAINTENANCE OF TRAFFIC	LS	1	4200	4200
6	FURNISH AND INSTALL 6" DIP	FT	325	204	66,300
7	FURNISH AND INSTALL 6" GATE VALVE	EA	2	1541	3082
8	FURNISH AND INSTALL TAPPING SLEEVE AND VALVE 6"X6"	EA	1	4944	4944
9	FURNISH AND INSTALL TAPPING SLEEVE AND VALVE 16"X6"	EA	1	8416	8416
10	FURNISH AND INSTALL 6" LINESTOP	EA	2	7588	15,176
11	REMOVAL/GROUTING OF EXISTING PIPE	FT	325	26	8450
				TOTAL	125,081

PREPARED BY:

Kimley»Horn

BID TABULATIONS
Town of Windermere - Park Avenue - Sidewalk and Drainage Improvements

ITEM NO.	ITEM DESCRIPTION	UNITS	QUANTITY	UNIT COST*	TOTAL
101-1	MOBILIZATION	LS	1	9900	9900
102-1	MAINTENANCE OF TRAFFIC	LS	1	5400	5400
104-14	PREVENTION, CONTROL, AND ABATEMENT OF EROSION AND WATER POLLUTION	LS	1	1900	1900
110-1-1	CLEARING & GRUBBING	AC	0.40	29,000	11,600
120-1	REGULAR EXCAVATION	CY	125	25	3125
120-6	EMBANKMENT	CY	41	3	123
425-1-521	INLETS, DT BOT, TYPE C, <10'	EA	5	2900	14,500
430-175-118	PIPE CULV, OPT MATL, ROUND, 18"S/CD	LF	420	72	30,240
430-963-1	PVC PIPE FOR BACK OF SIDEWALK, 4"	LF	60	16	960
522-2	SIDEWALK CONCRETE, 6" THICK	SY	470	73	34,310
526-1-1	PAVERS, ARCHITECTURAL, ROADWAY	SY	50	72	3600
527-2	DETECTABLE WARNINGS	SF	40	54	2160
570-1-2	PERFORMANCE TURF, SOD	SY	1365	9	12,285
711-11-123	THERMOPLASTIC, WHITE, SOLID, 12"	LF	112	8	896
711-11-125	THERMOPLASTIC, WHITE, SOLID, 24"	LF	88	13	1144
	TOTAL COST				$

TOTAL COST = $132,143.00

Attachment B
DRUG-FREE WORKPLACE CERTIFICATION

THE BELOW SIGNED Respondent CERTIFIES that it has implemented a drug-free workplace program. In order to have a drug-free workplace program, a business shall:

1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance is prohibited in the work place and specifying the actions that will be taken against employees for violation of such prohibition.
2. Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.
3. Give each employee engaged in providing the commodities or contractual services that are under quote a copy of the statement specified in subsection 1.
4. In the statement specified in subsection 1, notify the employees that, as a condition of working on the commodities or contractual services that are under quote, the employee will abide by the terms of the statement and will notify the employer of any conviction or plea of guilty or nolo contendere to any violation occurring in the workplace no later than five (5) days after such conviction.
5. Impose a sanction on, or require the satisfactory participation in, drug abuse assistance or rehabilitation program if such is available in the employee's community, by an employee who is convicted.
6. Make a good faith effort to continue to maintain a drug-free workplace through implementation of this section.

As the person authorized to sign this statement, I certify that this firm complies fully with the above requirements.

Date: 7\8\19

Signature: James C Thompson

Printed Name: JAMES C THOMPSON

Title: PRES.

Company: BARRACUDA BLDG. CORP.

ATTACHMENT C
EQUAL EMPLOYMENT OPPORTUNITY CERTIFICATION

The Town requires compliance with State and Federal regulations governing Equal Employment Opportunity, External Equal Opportunities (EO), External On-the-Job Training (OJT), Title VI, and the Americans with Disabilities Act (ADA) programs.

Sub-recipients of federal-aid contracts must include notifications in all solicitations for bids of work or material and agreements subject to Title VI of the Civil Rights Act of 1964 and other nondiscrimination authorities. Sub-recipients, contractors and subcontractors may not discriminate in their employment practices or in the selection and retention of any subcontractor.

By signing this document, the Respondent hereby certifies their commitment to assure nondiscrimination in its programs and activities to the effect that no person shall on the grounds of race, color, national origin, sex, age, disability or income status be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination or retaliation under any federally or non-federally funded program or activity administered by the sub-recipient and/or its contractors.

Company Name: BARRACUDA BLDG. CORP.

Authorized Representative Name and Title: JAMES C THOMPSON, PRES.

Signature of Authorized Representative: JAMES C THOMPSON, PRES.

Attachment D
NON-COLLUSION OATH

STATE OF FLORIDA

COUNTY OF ORANGE

Before me, the Undersigned, a Notary Public, for and in the County and State aforesaid, personally appeared: James C Thompson **and made oath that the Respondent herein, its agents, servants, and/or employees, to the best of its knowledge and belief, have not in any way colluded with anyone for and on behalf of the Respondent, or themselves, to obtain information that would give the Respondent an unfair advantage over others, nor have they colluded with anyone for and on behalf of the Respondent, or themselves, to gain any favoritism in the award of the Contract.**

James C Thompson, PRES.
Affiant Signature

Sworn to (or affirmed) and subscribed before me this 8th **day of** July, **20**19, **by** James C Thompson.

DEBBIE A. THORNTON
MY COMMISSION EXPIRES
September 14, 2019
#FF 900526
Bonded thru
Notary Public Underwriters
NOTARY PUBLIC, STATE OF FLORIDA

[STAMP HERE]

Signature of Notary Public

State of FL

Personally Known ✓ **OR Produced Identification** _____

Type of Identification Produced: _____

Attachment E
GOOD FAITH AFFIDAVIT

I hereby propose to provide the services requested in the Town's RFP and, if awarded, enter into a contract with the Town. I agree that the terms and conditions of the Town's RFP shall take precedence over any conflicting terms and conditions submitted with my proposal and agree to abide by all conditions of the RFP, unless a properly completed Exceptions to Solicitation form is submitted. I acknowledge that the City may not accept the proposal due to any exceptions.

I certify that all information contained in my proposal is truthful to the best of my knowledge and belief. I further certify that I am duly authorized to submit this proposal on behalf of the company as its agent and that the company is ready, willing, and able to perform if awarded a contract.

I further certify, under oath, that this proposal is made without prior understanding, agreement, connection, discussion or collusion with any other person, company or corporation submitting a proposal for the same product or service; no gratuities, gifts or kick-backs were offered or given by the Respondent or anyone on its behalf to gain favorable treatment concerning this procurement; no elected official, employee or agent of Town or of any other company is interested in said proposal; and that the undersigned executed this affidavit with full knowledge and understanding of the matters therein contained and was duly authorized to do so.

BARRACUDA BLDG. CORP.
Company Name

1000 OCOEE APOPKA RD.
Mailing Address

APOPKA, FL 32703
City, State & Zip Code

James C. Thompson
Authorized Signature

407 814-8644 / 407 814-8044
Telephone Number/Fax Number

JAMES C. THOMPSON, PRES.
Name & Title, Printed

BARRACUDABLD@BRIGHTHOUSE.COM
Email Address

State of FL

County of ORANGE

This foregoing instrument was acknowledged before me this 8th day of July, 2019, by James C. Thompson, who is personally known to me or produced _____ as identification.

Debbie A. Thornton
Signature of Notary

[STAMP HERE]

DEBBIE A. THORNTON
MY COMMISSION EXPIRES
September 14, 2019
#FF 900526
Bonded thru Notary Public Underwriters
NOTARY PUBLIC, STATE OF FLORIDA

UTILITY ADJUSTMENT AGREEMENT

THIS UTILITY ADJUSTMENT AGREEMENT (the "Agreement") is made and entered into as of the date of last execution below ("Effective Date") by and between **ORANGE COUNTY,** a charter county and political subdivision of the State of Florida (the "COUNTY"), whose address is 201 South Rosalind Avenue, Orlando, Florida, 32801, and the **TOWN OF WINDERMERE,** a municipal corporation existing under the laws of the State of Florida ("WINDERMERE"), whose address is 614 Main Street, Windermere, Florida 34786. The COUNTY and WINDERMERE may hereinafter be referred to individually as a "Party" or collectively as the "Parties."

RECITALS

WHEREAS, WINDERMERE plans to construct the Park Avenue Sidewalk and Drainage Improvements (the "Improvements") as shown on **Exhibit "A"** attached hereto and incorporated herein by this reference (the "Project Plans") (the construction and installation of the Improvements pursuant to the Project Plans is referred to herein as the "Project"); and

WHEREAS, the COUNTY is the owner of a six-inch PVC water line and appurtenant facilities (the "Facilities") located within the Park Avenue right of way ("ROW"), which Facilities will be relocated as a result of the Project as shown on **Exhibit "B"** attached hereto and incorporated herein by this reference (the "Utilities Plans") (the construction and installation of the relocated Facilities pursuant to the Utilities Plans is referred to herein as the "Utilities Project"); and

WHEREAS, the Parties desire to formalize the terms and conditions whereby the Parties will coordinate the completion of the Utilities Project by WINDERMERE, at the COUNTY's expense.

NOW, THEREFORE, in consideration of the recitals, agreements, and mutual covenants contained herein, and for other good and valuable consideration, of which the Parties acknowledge the receipt and sufficiency, WINDERMERE and the COUNTY hereby agree as follows:

1. **Recitals.** All of the recitals set forth above are true and correct, and are incorporated in and made a part of this Agreement by this reference.

2. **Bidding and Selection of Construction Contractor.** WINDERMERE has competitively bid the construction of the Project with the inclusion of the Utilities Project

and provided copies of the construction contractor's bids to the COUNTY. Bidders shall be financially responsible and able to furnish payment and performance bonds as required in Section 6. The bids provide a separate itemized cost for the Utilities Project based on the separate "breakout" schedule prepared by the COUNTY.

WINDERMERE will award the contract to the successful low bidder, and notify the COUNTY. The COUNTY will review and approve the winning bid for the Utilities Project.

3. **The Utilities Project.**

a. **Construction of the Facilities within Right-of-Way.** The COUNTY desires to install approximately 300 linear feet of six-inch PVC water main in the ROW between stations 159+14 and 162+13 on Park Avenue as depicted in the Utilities Plans, at the COUNTY's expense.

b. **COUNTY Costs.** The Utilities Project costs are more specifically set forth in **Exhibit "C,"** attached hereto and incorporated herein by this reference (the "Utility Cost Estimate"). The COUNTY shall be responsible for the actual construction costs related to the Utilities Project. The Parties acknowledge and agree that **Exhibit "C"** is an estimate of Utilities Project costs and the COUNTY shall reimburse WINDERMERE for actual construction costs in an amount not to exceed the estimated amount set forth in **Exhibit "C."**

4. **Utilities Project Construction Items.** The following shall also apply in the performance of the Utilities Project:

a. In the event that the Utilities Plans are required to be revised in any way, the Parties shall cooperate in good faith to expedite the review and such necessary revisions to ensure that: (i) the location, construction and operation of the Facilities are harmonized with the Project Plans and design and construction of the Project in accordance with all applicable laws; (ii) the work schedule is synchronized with the construction schedule for the Project; (iii) the construction of the Project and the Utilities Project are accomplished in an expedient and cost-effective manner so as to limit, to the extent reasonably practical, costs of land acquisition, design, and construction, and to minimize impacts to the Project, the Facilities, and adjacent landowners.

b. WINDERMERE, at the COUNTY's expense, shall obtain all such permits and approvals necessary for the Utilities Project.

c. All COUNTY Facilities shall be available for use by the COUNTY upon completion of construction and acceptance by the COUNTY of the Utilities Project. The existing Facilities shall remain fully functional and in service until the relocated and newly installed Facilities are cleared by the COUNTY

and the Florida Department of Environmental Protection (FDEP) and placed into service.

d. WINDERMERE shall cause the contractor(s) to commence and diligently perform the Utilities Project to completion in accordance with the Utilities Plans, COUNTY's Utilities' current standards, and WINDERMERE's work schedule; provided, however, in the event that completion of the Utilities Project is delayed by events of force majeure (as defined in Section 21 below), the completion date shall be extended one day for each day of delay caused by such events. The Parties shall cooperate to harmonize construction of the Facilities with the construction or proposed construction of the Project improvements. Neither WINDERMERE, nor any employee, contractor, nor agent thereof shall cause any damage to the property or any improvements thereon.

e. Subject to terms and conditions of this Agreement, WINDERMERE or its contractor shall construct certain Facilities that will lie partly or totally within or across the proposed Project ROW. To the extent that any Facilities are located in portions of property belonging to WINDERMERE, WINDERMERE hereby grants the COUNTY perpetual right to access its Facilities for inspection, maintenance, and repair.

f. Within 30 days after the completion of the Utilities Project, WINDERMERE shall provide the COUNTY with as-builts and certifications from a project engineer duly licensed in the State of Florida certifying that the installation of the Facilities has been completed in accordance with the Utilities Plans, and all applicable permits and laws.

g. As soon as possible after the completion of the Utilities Project, WINDERMERE shall provide the COUNTY with a detailed final statement of all costs and expenses incurred by WINDERMERE in connection with the construction of the Utilities Project (the "Cost Statement"), together with all supporting documentation of such costs and expenditures. The Cost Statement and supporting records provided by WINDERMERE shall be in auditable form in accordance with generally accepted accounting principles. Within 60 days after receipt of the Cost Statement and supporting documentation, the COUNTY shall reimburse WINDERMERE for all such costs and expenses actually incurred for the COUNTY work portion of the Utilities Project (subject to any adjustment if the COUNTY's audit shows that such Cost Statement exceeds costs actually incurred or such costs are not reimbursable under the terms of this Agreement). The COUNTY shall make payment for the costs associated with the Utilities Project by issuing a check made payable to WINDERMERE, in the amount so expended by WINDERMERE, all in accordance with the foregoing. Should the COUNTY object to a reimbursement amount requested by WINDERMERE, the COUNTY shall pay the undisputed portion of the amount as set forth above,

and the COUNTY shall submit its objections of the disputed portion in writing to WINDERMERE within 15 business days of receipt of the written reimbursement request from WINDERMERE. The Parties shall meet to resolve disputes with a goal to resolve them within 20 business days of WINDERMERE's receipt of the COUNTY's written objections.

5. **Insurance.** For the duration of the Agreement, WINDERMERE and the COUNTY 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, employers' liability, business automobile liability, and commercial general liability coverage.

WINDERMERE or its contractor shall provide insurance with coverages and limits set forth in this Section 5.

a. Prior to any contractor commencing any portion of the Utilities Project and throughout the course of construction of the Utilities Project, WINDERMERE shall cause the contractor to procure and maintain insurance limits and terms as follows:

   (i) Workers Compensation insurance with statutory workers' compensation limits and no less than $100,000 for Employers' Liability with a waiver of subrogation in favor of the COUNTY and WINDERMERE and their agents, employees, and officials.

   (ii) Commercial general liability insurance for all operations including, but not limited to contractual, products, completed operations, and personal injury with limits of not less than $1,000,000 per occurrence and an aggregate limit of at least twice the per occurrence limit.

   (iii) Business automobile liability insurance for all owned, non-owned, or hired vehicles with limits of not less than $500,000 per occurrence.

The contractor's Florida-licensed surveyor responsible for signing and sealing the as-built drawings for the Utilities Project shall provide Professional Liability coverage (errors and omissions) with limits of not less than $1,000,000 per occurrence.

b. The COUNTY shall be specifically included as an additional insured under the policies required by this Section 5, and said insurance shall include a provision requiring the insurer to provide written notice to the COUNTY and WINDERMERE of cancellation at least 10 business days prior to cancellation of coverage.

c. The COUNTY reserves the right to request, and WINDERMERE shall produce within 15 days, proof of the existence of such insurance coverage and certificates verifying the amount and terms of such insurance coverage. Renewals of certificates of insurance shall be produced by WINDERMERE as necessary during the Utilities Project until WINDERMERE issues the bill of sale and the COUNTY accepts the Facilities and the Utilities Project.

d. WINDERMERE shall require each contractor performing work for the Utilities Project for, or on behalf of, WINDERMERE to secure and keep in force the insurance with coverages and limits set forth in Section 5.a. and b.

6. **Bond.** WINDERMERE shall require any contractor undertaking the construction of the Utilities Project to secure and maintain a payment bond and a performance bond in accordance with state law and COUNTY policy. WINDERMERE shall cause the contractor to list the COUNTY as co-obligee on all bond forms. Prior to commencing the construction of the Utilities Project, the general contractor shall obtain and deliver to the COUNTY a payment bond and a performance bond for the Utilities Project. The payment and performance bonds shall name the COUNTY as Dual-Obligee and be assignable to the COUNTY following acceptance of the Utilities Project by the COUNTY. The surety company issuing the payment bond and the performance bond shall meet the following qualifications:

a. Surety must be licensed to do business in the State of Florida, maintain an A-VI or better rating with A.M. Best or an equivalent rating agency and shall comply with the provisions of Section 255.05, Florida Statutes.

b. Surety must be listed on the most recent version of the U.S. Department of Treasury Fiscal Service, Bureau of Financial Management, Circular 570 entitled: "Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies."

c. All bonds/surety instruments shall be originals and issued by a producing agent with the authority to issue said bonds/surety instruments on behalf of the surety company. Attorneys-in-fact who sign bonds/surety instruments must attach with each bond/surety instrument a certified and effectively dated copy of their power of attorney. Agents of surety companies must list their name, address, and telephone number on all bonds/surety instruments

7. **Maintenance.** Upon completion and acceptance of the Utilities Project by the COUNTY, WINDERMERE shall cause its contractor to provide a Maintenance Bond for said work and the COUNTY shall be listed as co-obligee on the Maintenance Bond. WINDERMERE shall have no responsibility for the maintenance, operations or repairs of the Facilities upon completion and acceptance of the Utilities Project by the COUNTY, unless such repairs are due to damage caused by the negligence of WINDERMERE, its employees, contractors, or agents. Neither the COUNTY, nor any employee, contractor, nor agent thereof, shall cause any damage to improvements within the Utilities Project, or

take any actions that would weaken, diminish, or impair the lateral or subjacent support to the Project, or its appurtenant improvements. Without limiting the foregoing, the COUNTY shall be responsible for maintaining, at no cost to WINDERMERE, all permits, authorizations, and approvals of applicable regulatory agencies necessary for continued operation, use, maintenance, and repair of the Facilities.

8. **Default.** In the event either Party breaches any of the terms or conditions to be complied with or any of the covenants, agreements or obligations to be performed by such Party under the terms and provisions of this Agreement, the non-defaulting Party, at its sole discretion, shall be entitled to exercise any and all rights and remedies available to the non-defaulting Party at law and in equity, including without limitation, the right of specific performance, except as limited by the terms of this Section 8. Any damages recoverable as a result of a failure to perform shall be limited to direct actual damages only. Notwithstanding any other provision of this Agreement, in no event shall either party have liability to the other party under this Agreement, whether based in contract, in tort, or otherwise, for any special, incidental, indirect, exemplary, or consequential damages.

9. **Notice.** Any notice required or allowed to be delivered hereunder shall be in writing and be deemed to be delivered when (i) hand delivered to the official hereinafter designated, or (ii) three days after the date on which deposited in the United States mail, postage prepaid, certified mail return receipt requested, and addressed to a Party at the address set forth opposite the Party's name below, or such other address as the Party shall have specified by written notice to the other Party delivered in accordance herewith.

If to the COUNTY:	Orange County Utilities Department 9150 Curry Ford Road Orlando, Florida 32825-7600 Attn: Director
With copy to:	Orange County Administrator's Office Orange County Administration Building 201 S. Rosalind Avenue, 5th Floor Orlando, Florida 32801-3527 Attn: County Administrator
If to WINDERMERE:	TOWN OF WINDERMERE 614 Main Street Windermere, Florida 34786-3503 Attn: Public Works Director
With copy to:	Town of Windermere 614 Main Street Windermere, Florida 34786-3503 Attn: Town Manager

10. **Indemnification.** Neither Party to this Agreement nor its officers, agents, nor employees shall, by this Agreement, be deemed to assume any liability for the acts, omissions, and/or negligence of the other Party. To the extent allowable by law, each Party shall defend, indemnify, and hold the other Party harmless from all claims, damages, losses, and expenses (including attorneys' fees) arising out of or resulting from the negligent performance of its respective operations under the Agreement. Notwithstanding the foregoing, WINDERMERE and the COUNTY do not waive and do retain all defenses and protections provided to them under Florida and other applicable law, including without limitation, the defense of Sovereign Immunity as currently set forth in Section 768.28, Florida Statutes, for tort actions brought against WINDERMERE or the COUNTY, and such immunity shall be applicable to any claim or action brought pursuant to the foregoing indemnity provision even if said claim or action sounds in contract rather than in tort.

11. **Disputes.** All claims, disputes, and other matters in question between the Parties arising out of, or relating to, this Agreement or its performance or breach (a "Dispute") shall be resolved in the following order: (a) good-faith negotiation, (b) mediation, and then (c) judicial resolution. The process of "good-faith negotiation" requires each Party to set out in writing to the other its reason(s) for adopting a specific conclusion or for selecting a particular course of action, together with the sequence of subordinate facts leading to the conclusion or course of action. The good-faith negotiations shall include at least one meeting of representatives of the Parties. The Party-representative shall have authority to resolve the Dispute.

12. **Hazardous Materials.** WINDERMERE shall cause no hazardous materials or other potentially hazardous conditions on the property, and to the fullest extent permitted by law, WINDERMERE assumes all responsibility for, and agrees to defend, indemnify, and hold the COUNTY harmless from (a) all claims, cost and expenses, including reasonable attorney's fees, as a consequence of any sudden or non-sudden pollution of air, water, land and/or ground water arising from or in any way connected with the occupancy by WINDERMERE of the COUNTY'S property; and (b) any claim or liability including defense costs and expenses, arising under the federal or state law dealing with either such sudden or non-sudden pollution of air, water, land, and/or ground water arising from or the remedy thereof.

13. **Non-Waiver.** No consent or waiver, expressed or implied, by either Party, to or of any breach or default of the other Party, with regard to the performance by said other Party of its obligations under this Agreement shall be deemed or construed to constitute consent or waiver, to or of, any other breach or default in the performance of that Party, of the same or of any other objection of performance incumbent upon that Party. Failure on the part of either Party to complain of any act or failure to act on the part of the other Party in default, irrespective of how long the failure continues, shall not constitute a waiver by that Party of its rights and any remedies that exist under this Agreement, at law, or in equity.

14. **Entire Agreement.** This Agreement constitutes the entire agreement of the Parties, and no representations, inducements, promises, or agreements, oral or otherwise, between the Parties not embodied herein shall be of any force or effect. Any amendment to this Agreement shall not be binding upon any of the Parties unless such amendment is in writing and executed by all Parties. The provisions of this Agreement shall inure to the benefit of and be binding upon the Parties and their respective heirs, administrators, executors, personal representatives, successors, and assigns.

15. **Captions; Days.** Captions and section headings in this Agreement are provided for convenience only, and shall not be deemed to explain, modify, amplify, or aid in the interpretation, construction, or meaning of this Agreement. Whenever under the terms and provisions of this Agreement the time for performance falls upon a Saturday, Sunday, or Legal Holiday, such time for performance shall be extended to the next business day.

16. **Further Documentation.** The Parties agree that from time to time and following a request therefore by a Party, each Party shall properly execute and deliver to the other Party such other documents and instruments reasonably necessary to effectuate the obligations of each Party.

17. **Governing Law and Venue.** This Agreement shall be governed by and construed in accordance with the laws of the State of Florida, without giving effect to any choice of law rules thereof which may direct the application of laws of another jurisdiction. The venue for any mediation or judicial proceedings shall be in Orange County, Florida. The Parties voluntarily waive a trial by jury in any litigation or action arising from this Agreement.

18. **Time is of the Essence.** Time is hereby declared of the essence as to the lawful performance of all duties and obligations set forth in this Agreement.

19. **Survival of Provisions.** All covenants, representations, and warranties set forth in this Agreement shall survive the execution or delivery of any and all deeds and other documents at any time executed or delivered under, pursuant to or by reason of this Agreement, and shall survive the payment of all monies made under, pursuant to, or by reason of this Agreement.

20. **Severability.** If any part of this Agreement is found invalid or unenforceable by any court, such validity or unenforceability shall not affect the other parts of this Agreement if the rights and obligations of the Parties contained therein are not materially prejudiced and if the intentions of the Parties can continue to be effectuated. To that end, this Agreement is declared severable.

21. **Force Majeure.** The Parties shall be excused for the period of any delay in the performance of any obligation hereunder when prevented from so doing by cause or causes beyond the obligated party's reasonable control, which shall include, without limitation, civil commotion, civil disorder, riot, civil disturbance, war, war-like

operations, invasion, rebellion, hostilities, military or usurped power, sabotage, fire or other casualty, and inability to obtain any material or services due to Acts of God. For all monetary issues, there shall be no events of force majeure.

22. **Non-Appropriation.** In accordance with the Florida Constitution and other applicable state and local laws, including but not limited to Section 129.07, Florida Statutes, the obligations of the COUNTY in this Agreement are subject to sufficient budgeted COUNTY funds being available in each COUNTY budget year to achieve the purposes of this Agreement.

SIGNATURES TO FOLLOW

IN WITNESS WHEREOF, the Parties have caused this Agreement to be executed by their duly authorized representatives on the dates set forth below.

ORANGE COUNTY, FLORIDA
By: Board of County Commissioners

By: _____
Jerry L. Demings
Orange County Mayor

Date: _____

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

By: _____
Deputy Clerk

Print: _____

WITNESSES:

_____

Print Name: _____

_____

Print Name: _____

TOWN OF WINDERMERE
a municipal corporation existing under the laws of the State of Florida

By: _____

Print Name: _____

Title: _____

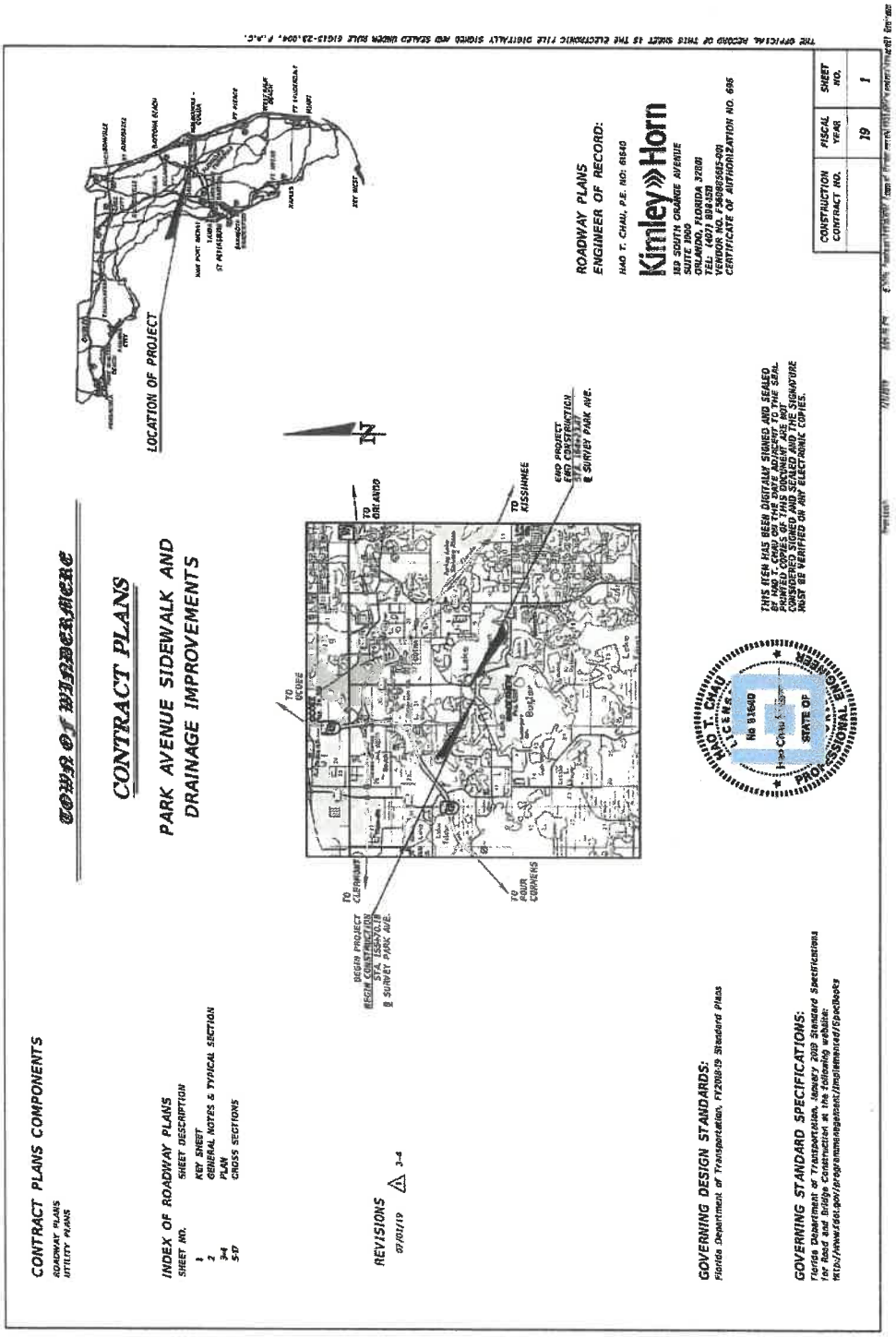
Date: _____

APPROVED AS TO FORM AND LEGALITY FOR EXECUTION BY A SIGNATORY OF THE TOWN OF WINDERMERE

By: _____

Date: _____

EXHIBIT "A"
PROJECT PLANS

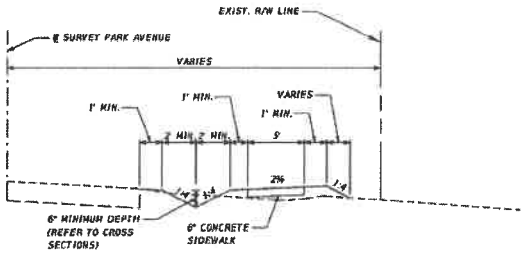


GENERAL NOTES:

1. EXISTING DRAINAGE STRUCTURES WITHIN CONSTRUCTION LIMITS SHALL REMAIN, UNLESS OTHERWISE NOTED. EXISTING DRAINAGE MUST BE MAINTAINED UNTIL NEW SYSTEM IS ACTIVATED.
2. ALL EXISTING UTILITIES WITHIN PROJECT LIMITS ARE TO REMAIN UNLESS OTHERWISE NOTED.
3. VERTICAL CONTROL FOR THIS PROJECT IS BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
4. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY.
5. THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS THROUGH SUNSHINE STATE ONE CALL OF FLORIDA (1-800-432-4770) AND THE UTILITY OWNERS LISTED BELOW A MINIMUM OF TWO BUSINESS DAYS (10 DAYS IF DIGGING UNDER WATER) IN ADVANCE OF BEGINNING CONSTRUCTION ON THE JOB SITE.

UTILITY AGENCY OWNER	TELEPHONE NUMBER	CONTACT PERSON
AT&T	770-918-5424	NANCY SPENCE
BRIGHTHOUSE-CHARTER COMMUNICATION	407-532-8509	MARVIN USHY JR.
DUKE ENERGY	727-893-9394	MEGAN VONSTETINA
LAKE APOPKA NATURAL GAS DISTRICT	407-656-2734	ANTONIA GIBSON
ORANGE COUNTY UTILITIES	407-254-9764	DAVID SHORETTE
ORANGE COUNTY PUBLIC WORKS	407-836-7804	ROGER SMITH
ORLANDO TELEPHONE COMPANY INC.	407-996-8900	AARON PICKLE
ORLANDO UTILITIES COMMISSION	407-434-2569	RON HAWKINS
TOWER CLOUD INC.	813-417-2184	JONATHAN RAY
CENTURY LINK	407-814-5293	TY LESLIE
SUMMIT BROADBAND	727-235-4362	ROBERT SMITH

6. CONTRACTOR SHALL ADJUST ALL UTILITY LIDS AND COVERS TO FINISHED GRADE AS REQUIRED.
7. PRIOR TO COMMENCEMENT OF ANY EXCAVATION , THE CONTRACTOR SHALL COMPLY WITH FLORIDA STATUTE. 553.851 FOR THE PROTECTION OF UNDERGROUND GAS PIPELINES.
8. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES THAT ARE TO REMAIN IN PLACE.
9. THE CONTRACTOR WILL RESTORE ALL AREAS DISTURBED BY THIS CONSTRUCTION TO A CONDITION EQUAL TO OR BETTER THAN THE CONDITION EXISTING PRIOR TO CONSTRUCTION. ALL DISTURBED AREAS TO BE SODDED.
10. THE CONTRACTOR SHALL FURNISH THE ENGINEER, PRIOR TO INCORPORATION INTO THE PROJECT, A CERTIFICATION FROM THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES DIVISION OF PLANT INDUSTRY, STATING THAT THE SOD, STRAW AND MULCH MATERIALS ARE FREE OF NOXIOUS WEEDS, INCLUDING TROPICAL SODA APPLE.
11. ALL SYNTHETIC BALES, ROCK BAGS AND SILT FENCE SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT.
12. THE CONTRACTOR SHALL DEVELOP AND SUBMIT AN EROSION PLAN FOR THE PREVENTION, CONTROL, ABATEMENT OF EROSION, SEDIMINATION, AND WATER POLLUTION TO THE TOWN FOR APPROVAL. EROSION CONTROL ITEMS ARE TO BE USED AT THE LOCATIONS DESCRIBED IN THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN TO COMPLY WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.
13. THE CONTRACTOR IS TO MAINTAIN AND KEEP STREET NAME IDENTIFICATION VISIBLE DURING CONSTRUCTION OPERATIONS, IN ORDER TO FACILITATE EMERGENCY VEHICLE TRAFFIC. PLACEMENT OF BUSINESS ENTRANCE SIGNS AND CHANNELIZING DEVICES ARE TO BE IN ACCORDANCE WITH INDEX 102-600.
14. STAGING AND MATERIAL STORAGE SHALL NOT BE CONDUCTED ON ABUTTING PRIVATE PROPERTY WITHOUT WRITTEN APPROVAL FROM THE OWNER.
15. THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL RESIDENCES AND BUSINESSES DURING THE ENTIRE CONSTRUCTION PERIOD.
16. MATCH SOD TYPES TO ADJACENT PROPERTIES, IF NO PARTICULAR TYPE IS EVIDENT THEN SAINT AUGUSTINE SHALL BE USED.
17. ALL STATIONS AND OFFSETS ARE REFERENCED TO ℄ OF SURVEY.
18. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHALL NOTIFY THE TOWN SURVEYOR, WITHOUT DELAY, BY TELEPHONE.
19. CONTRACTOR SHALL DE-SILT EXISTING CROSS DRAIN.
20. ALL CROSS DRAINS AND STORM PIPE SHALL BE CLASS III REINFORCED CONCRETE PIPE.
21. CONTRACTOR SHALL REMOVE EXISTING SIDEWALK WITHIN PROPOSED SIDEWALK LIMITS.
22. DETECTABLE WARNING TRUNCATED DOMES SHALL BE WET SET, CAST IN PLACE WITH CONCRETE.
23. FURNISH AND INSTALL UTILITY MAIN COST PER LINEAR FOOT INCLUDES ALL PIPE MATERIALS AND INSTALLATION COSTS, INCLUDING BUT NOT LIMITED TO DEWATERING, EXCAVATION, BACKFILL, COMPACTION, RESTORATION AND TESTING.



TYPICAL SECTION

STA. 155+70.18 TO STA. 164+23.47

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

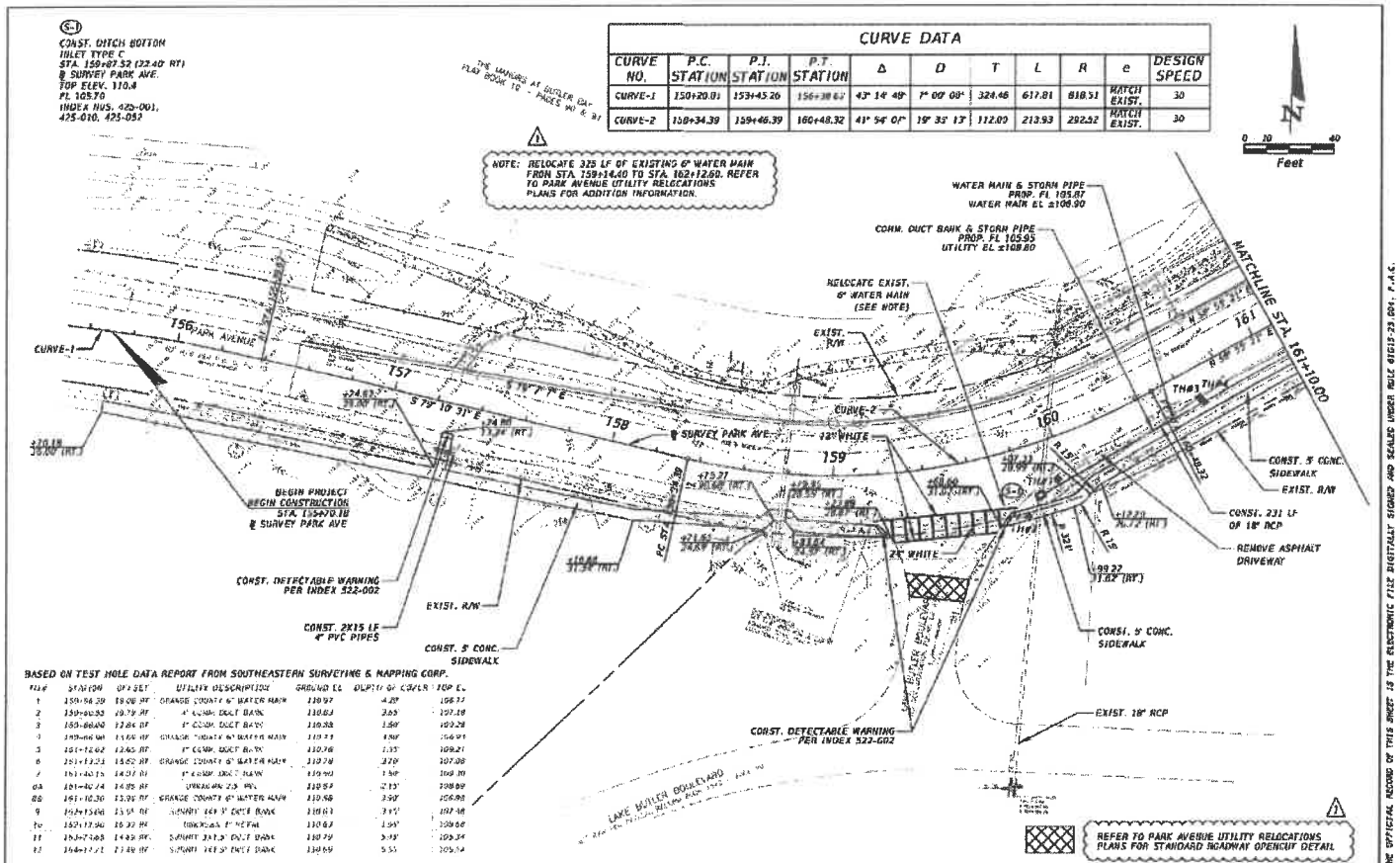
Kimley»Horn
Certificate Of Authorization No. 696
Max T. Chau, P.E.
P.E. License No. 61643
189 South Orange Avenue, Suite 1000
Orlando, Florida 32801

TOWN OF WINDERMERE

GENERAL NOTES & TYPICAL SECTION

SHEET NO. 2

CURVE DATA										
CURVE NO.	P.C. STATION	P.I. STATION	P.T. STATION	Δ	D	T	L	R	e	DESIGN SPEED
CURVE-1	150+20.01	153+45.26	156+38.67	43° 14' 48"	1° 00' 08"	324.46	617.81	818.51	MATCH EXIST.	30
CURVE-2	158+34.39	159+46.39	160+48.32	41° 54' 07"	19° 33' 13"	112.09	213.93	292.52	MATCH EXIST.	30



BASED ON TEST HOLE DATA REPORT FROM SOUTHEASTERN SURVEYING & MAPPING CORP.

TH#	STATION	OFFSET	UTILITY DESCRIPTION	GROUND EL	DEPTH OF COVER	TOP EL
1	159+56.39	19.06 RT	ORANGE COUNTY 6" WATER MAIN	110.97	4.87	106.13
2	159+90.53	19.79 RT	4" COMM. DUCT BANK	110.63	3.65	107.18
3	160+86.00	12.86 RT	4" COMM. DUCT BANK	110.38	1.50	108.88
4	160+86.00	13.66 RT	ORANGE COUNTY 6" WATER MAIN	110.33	4.36	106.97
5	161+12.62	12.65 RT	4" COMM. DUCT BANK	110.76	1.55	109.21
6	161+13.51	15.62 RT	ORANGE COUNTY 6" WATER MAIN	110.78	3.70	107.08
7	161+40.15	14.01 RT	4" COMM. DUCT BANK	110.90	1.90	109.00
8A	161+40.24	14.05 RT	UNKNOWN 2.5" PVC	110.93	2.15'	108.89
8B	161+40.30	15.06 RT	ORANGE COUNTY 6" WATER MAIN	110.98	3.90'	106.98
9	162+15.66	15.51 RT	SUNPRO 168.3" DUCT BANK	110.63	3.15'	107.48
10	162+17.96	16.32 RT	UNKNOWN 6" METAL	110.63	1.95'	108.68
11	163+71.65	14.45 RT	SUNPRO 337.3" DUCT BANK	110.79	5.45'	105.34
12	164+17.21	11.46 RT	SUNPRO 168.3" DUCT BANK	110.69	5.55	105.14

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
12/10/19	1 REVISED UTILITY RELOCATION LIMITS AND OPENCUT DETAIL		

Kimley»Horn
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Hae F. Chu, P.E.
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Orlando, Florida 32801

TOWN OF WINDERMERE

PLAN SHEET

SHEET NO. 3

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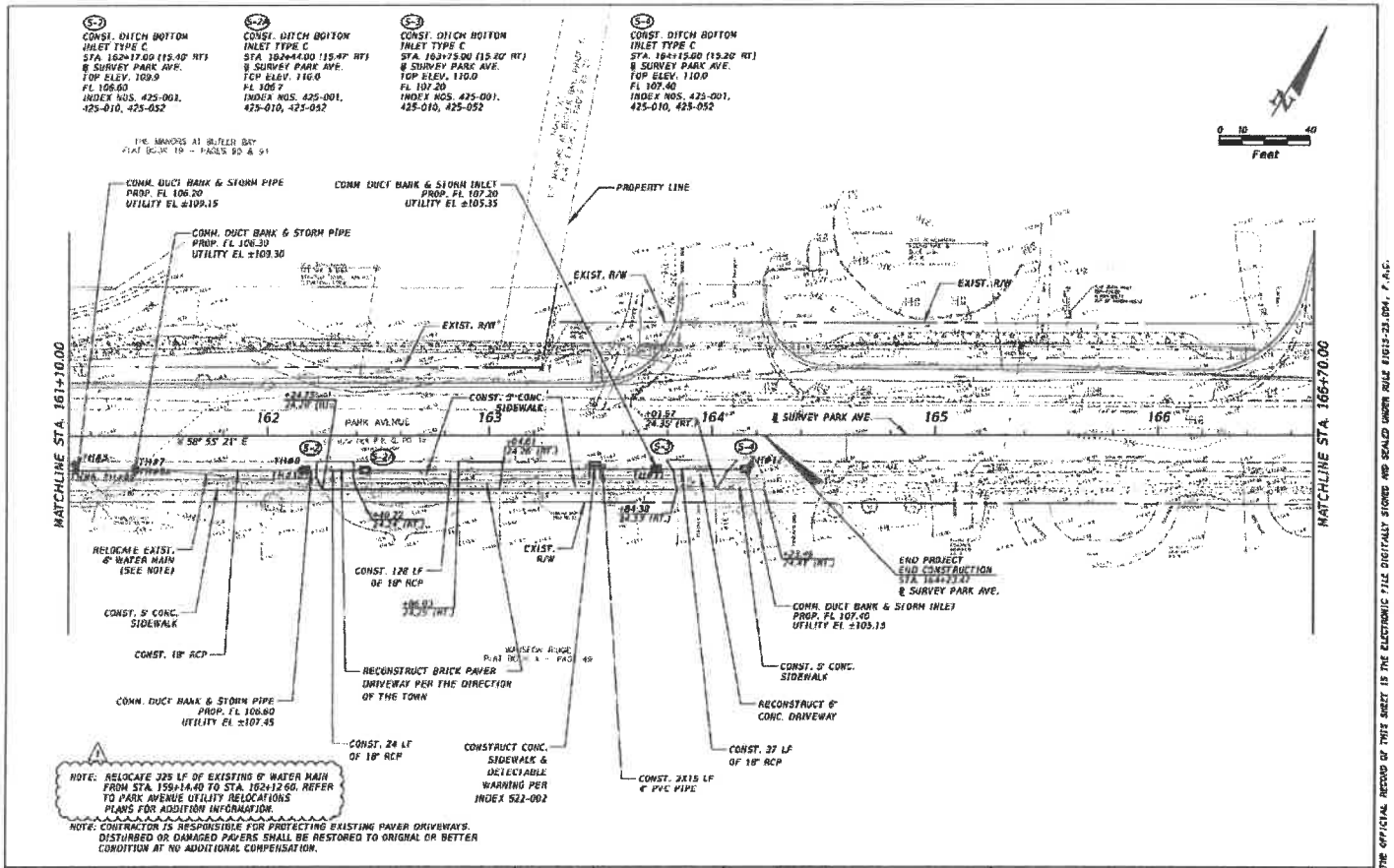

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
12/13/19	1 REVISED UTILITY RELOCATION LIMITS		

Kimley»Horn
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Neil T. Chin, P.E.
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189 South Orange Avenue, Suite 1000
Orlando, Florida 32801

TOWN OF WINDERMERE

PLAN SHEET

SHEET NO. 4

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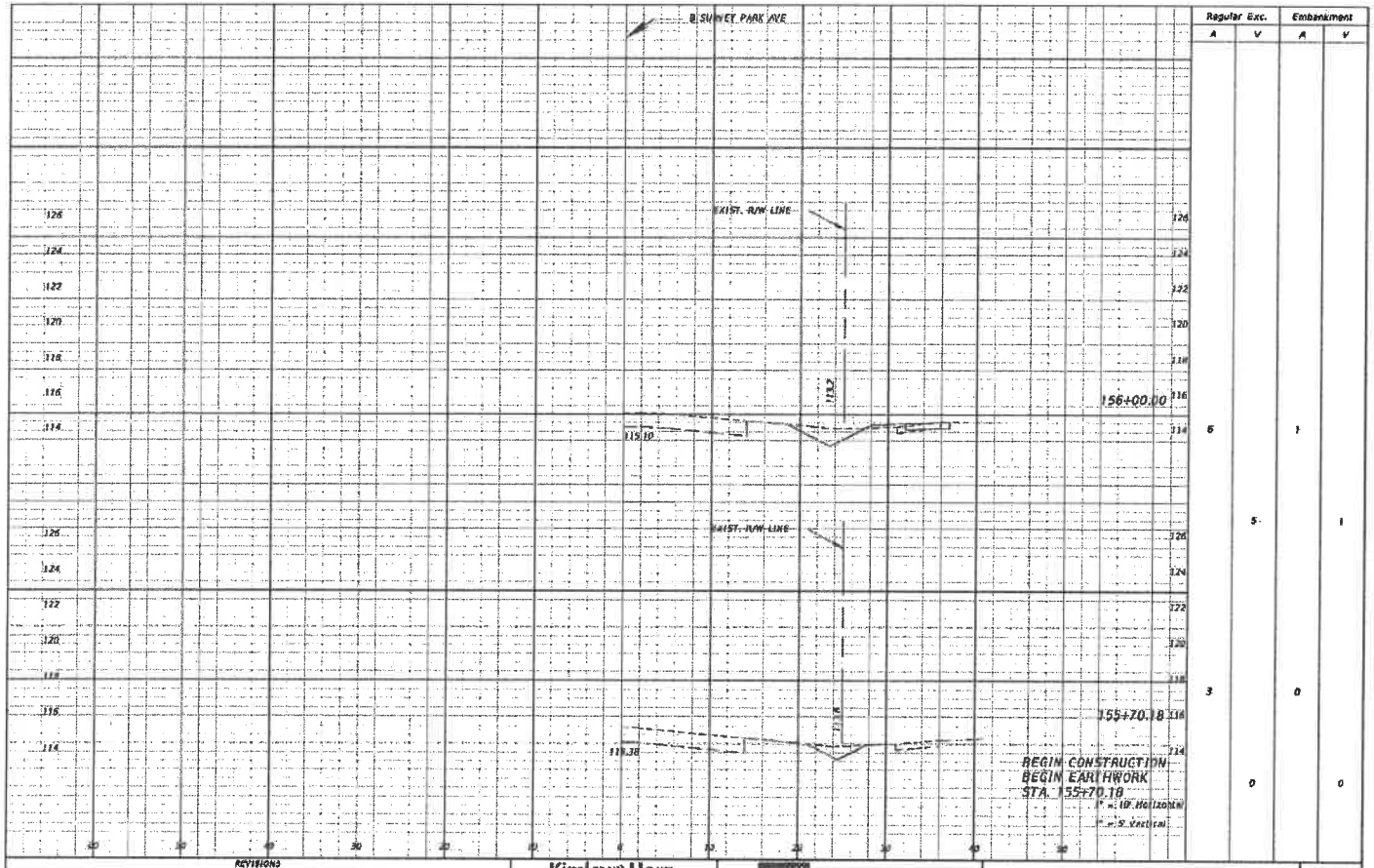

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

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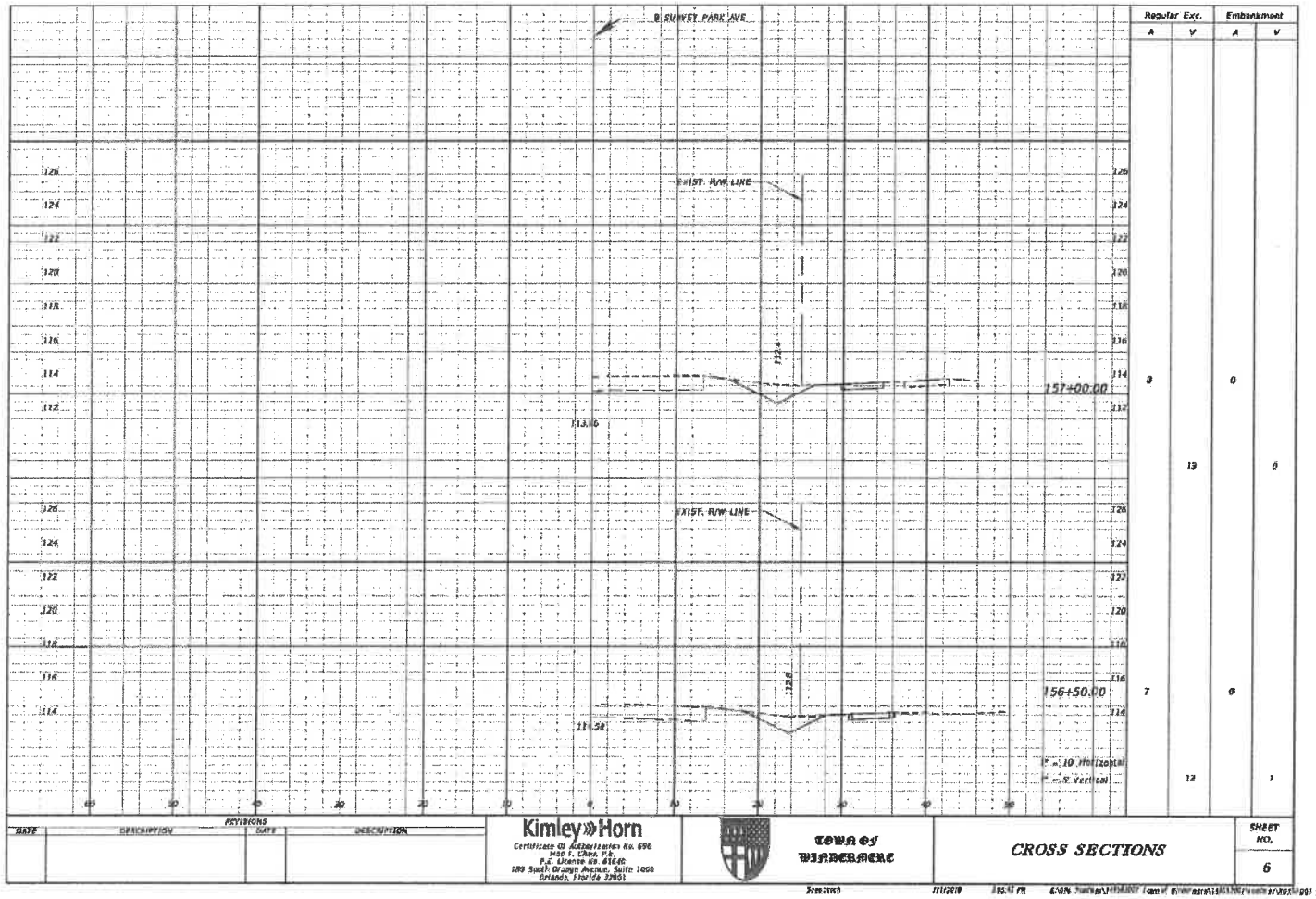
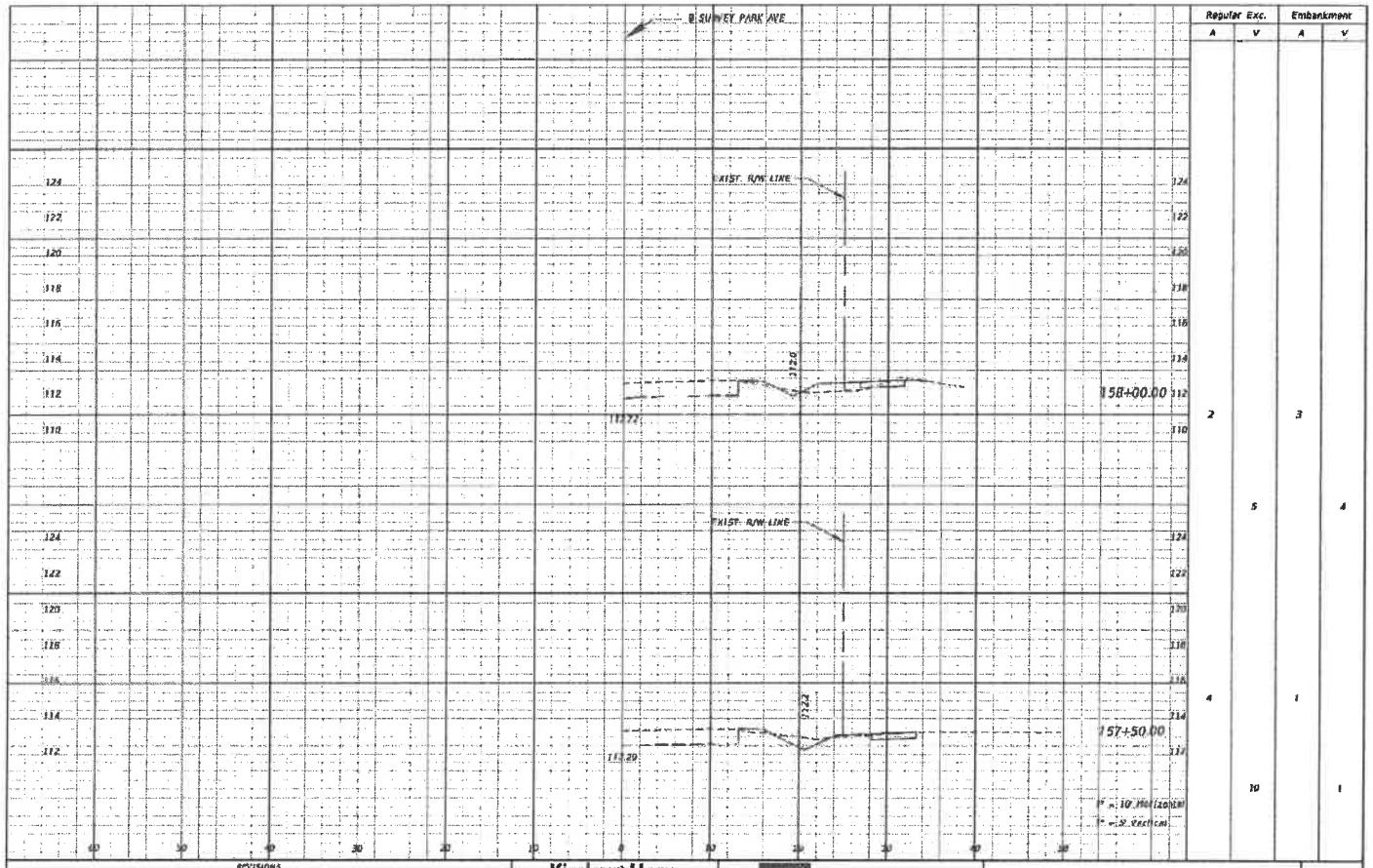
Hao T. Chau, P.E.
F.S. License No. 61640
189 South Orange Avenue, Suite 3000
Orlando, Florida 32801

TOWN OF WINDERMERE

CROSS SECTIONS

SHEET NO. 5


B SURVEY PARK AVE
EXIST. R/W LINE
157+00.00
156+50.00
EXIST. R/W LINE
Regular Exc.
Embankment
A
V
A
V
8
0
13
0
7
0
12
1
* =10 Horizontal
* =5 Vertical
REVISIONS
DATE
DESCRIPTION
DATE
DESCRIPTION
Kimley»Horn
Certificate Of Authorization No. 696
1400 E. Colo. Fla.
P.E. License No. 61640
189 South Orange Avenue, Suite 1000
Orlando, Florida 32801
TOWN OF
WINDERMERE
CROSS SECTIONS
SHEET NO.
6



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DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley»Horn
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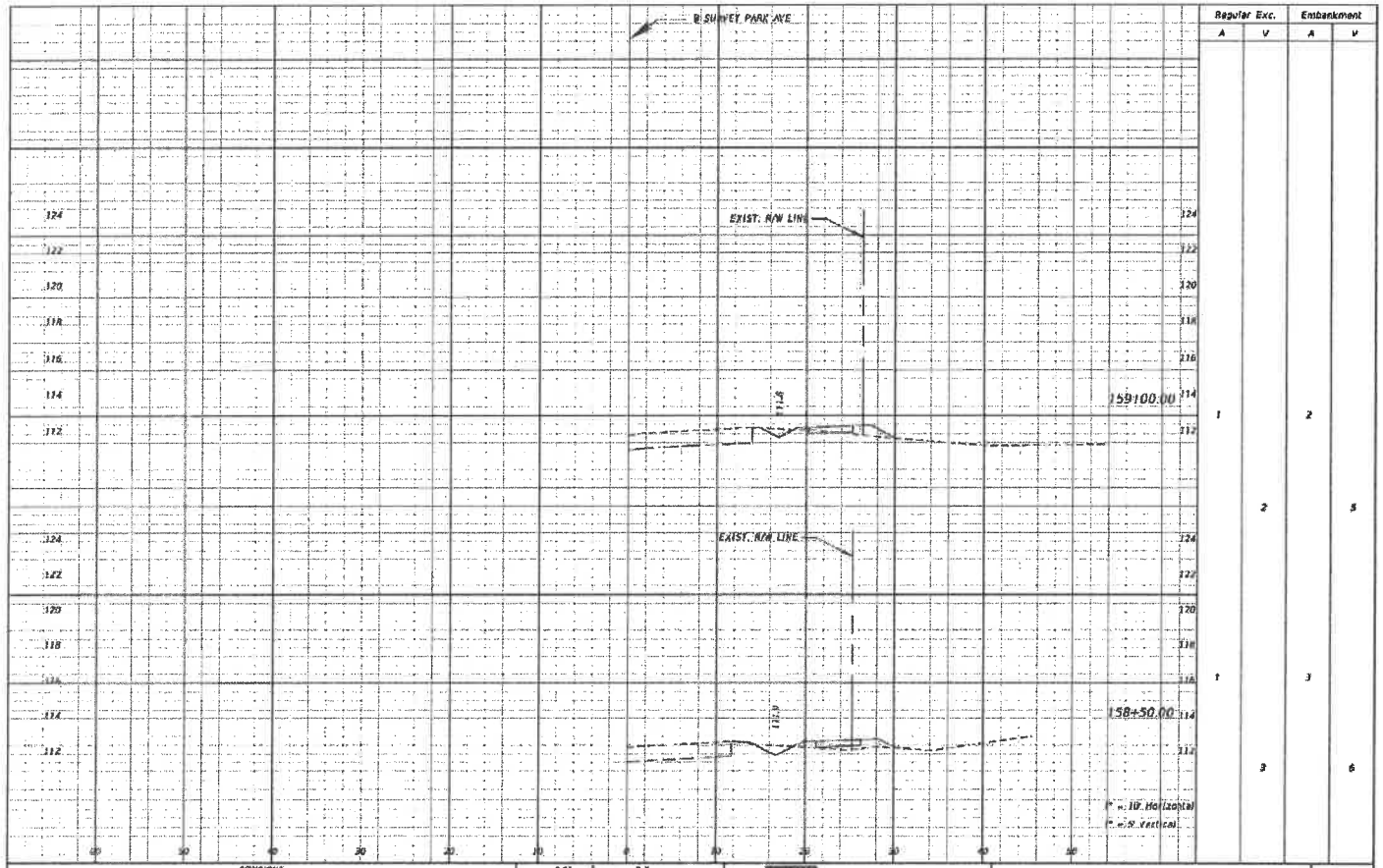
Pete T. Chen, P.E.
P.E. License No. 61646
189 South Orange Avenue, Suite 1000
Orlando, Florida 32801

TOWN OF WINDERMERE

CROSS SECTIONS

SHEET NO. 7



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DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley»Horn
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Max T. Chee, P.E.
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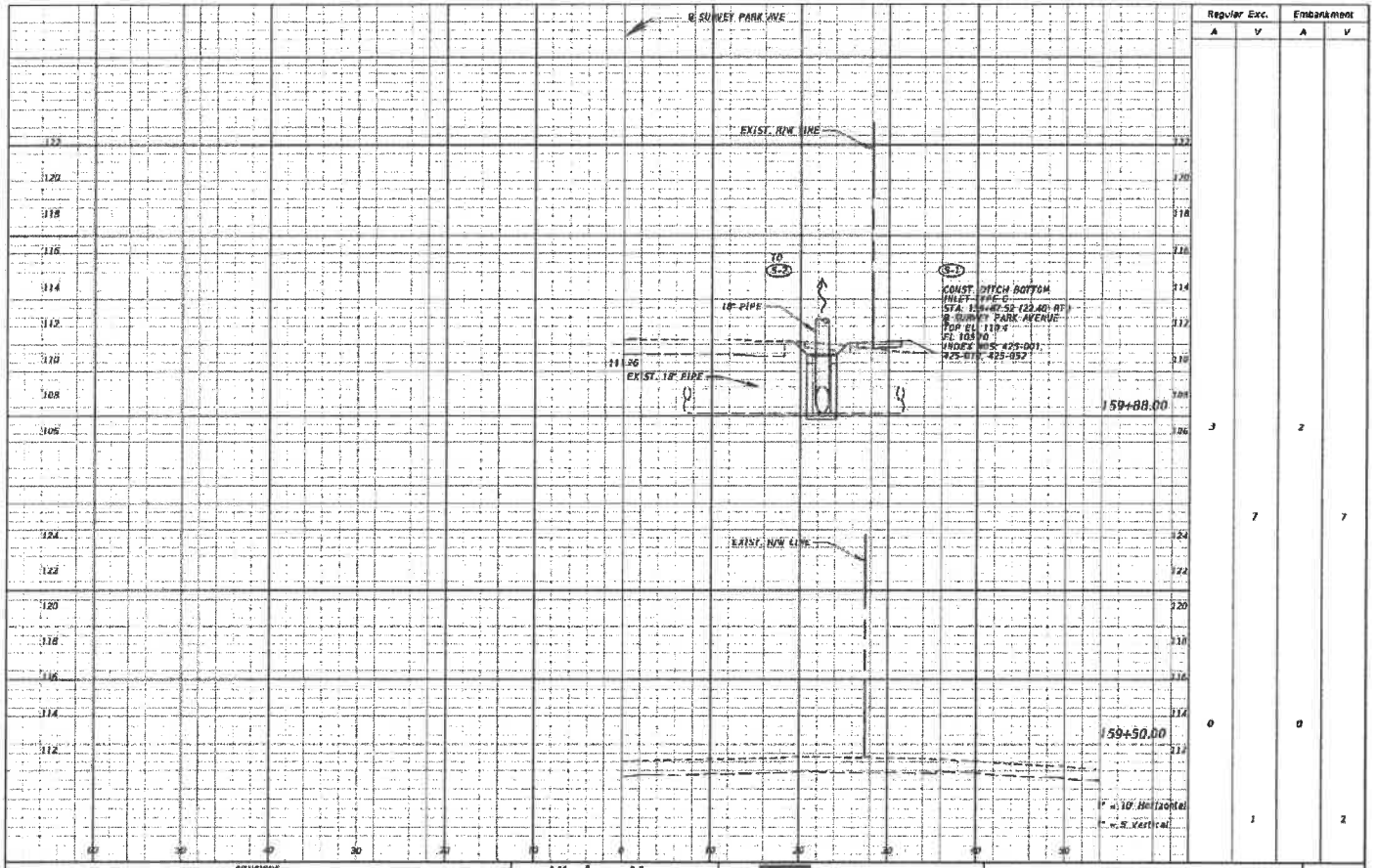
189 South Orange Avenue, Suite 1000
Orlando, Florida 32801

TOWN OF WINDERMERE

CROSS SECTIONS

SHEET NO. 8



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Kimley»Horn
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Hill T. Chen, P.E.
P.E. License No. 61640
189 South Orange Avenue, Suite 1000
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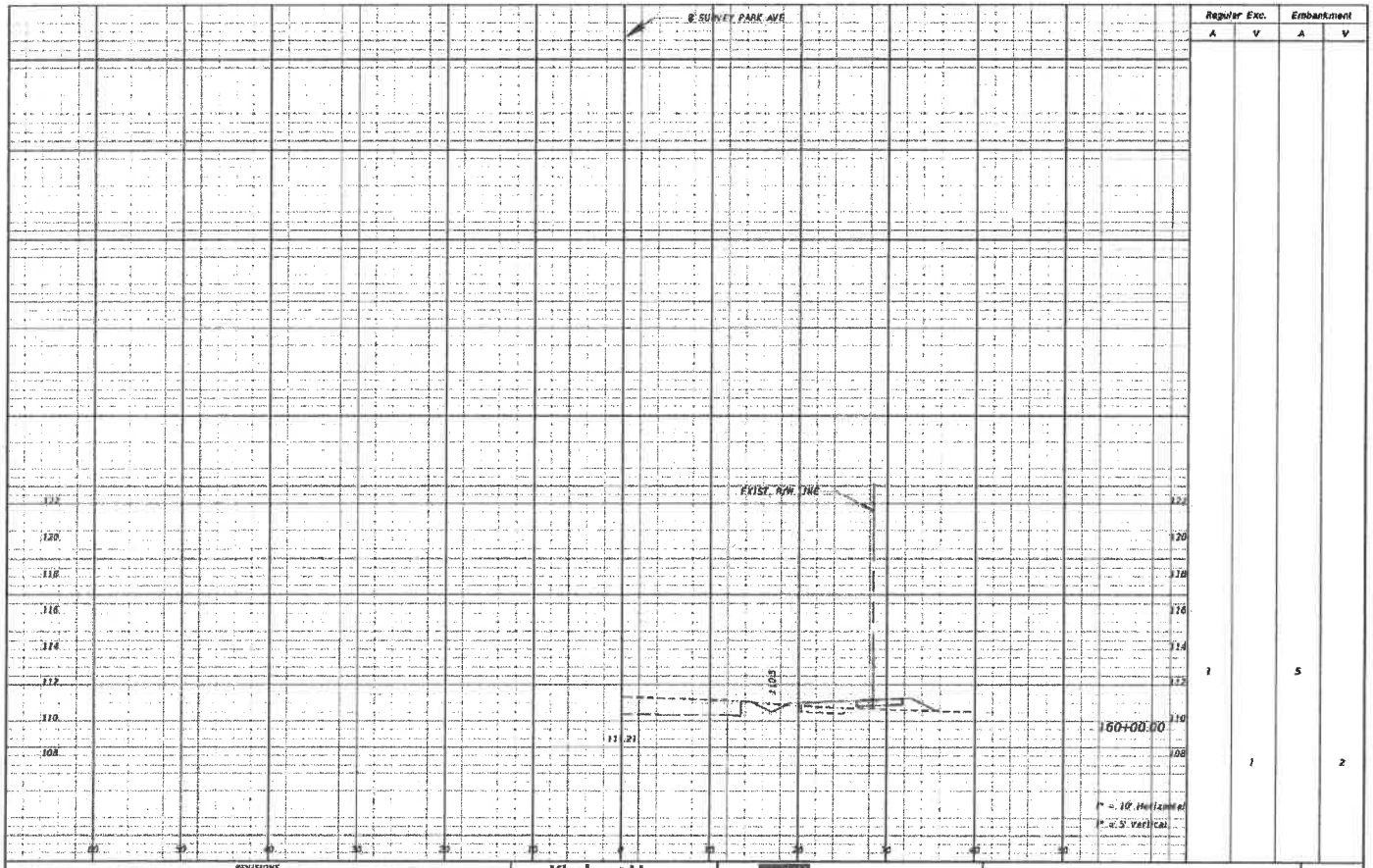
TOWN OF WINDERMERE

CROSS SECTIONS

SHEET NO.
9



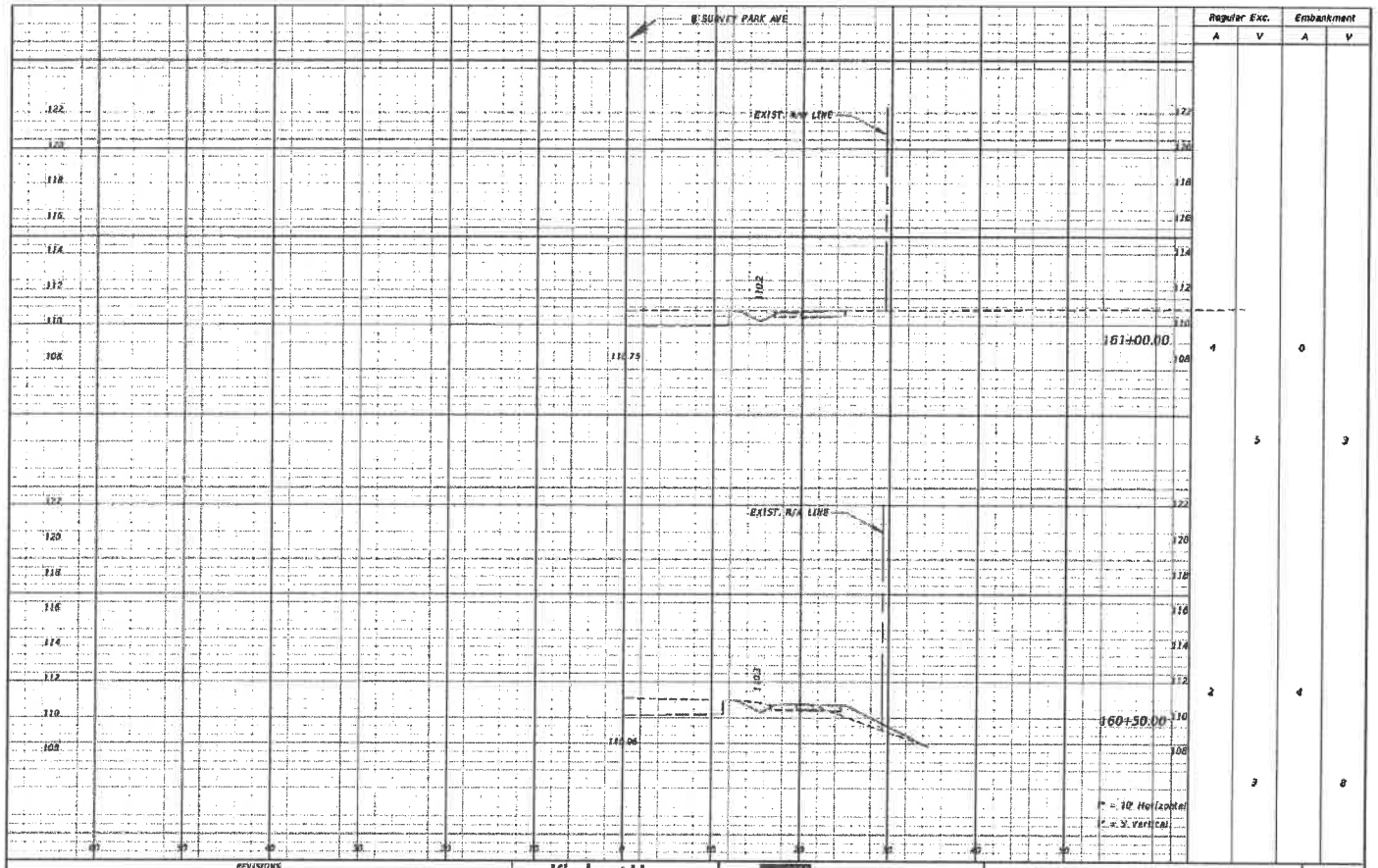
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley»Horn
Certificate Of Authorization No. 696
Hao T. Chau, P.E.
P.E. License No. 67646
189 South Orange Avenue, Suite 1000
Orlando, Florida 32801

TOWN OF WINDERMERE

CROSS SECTIONS

SHEET NO.
10



Regular Exc.		Embankment	
A	V	A	V
4	5	0	3
2	3	4	8

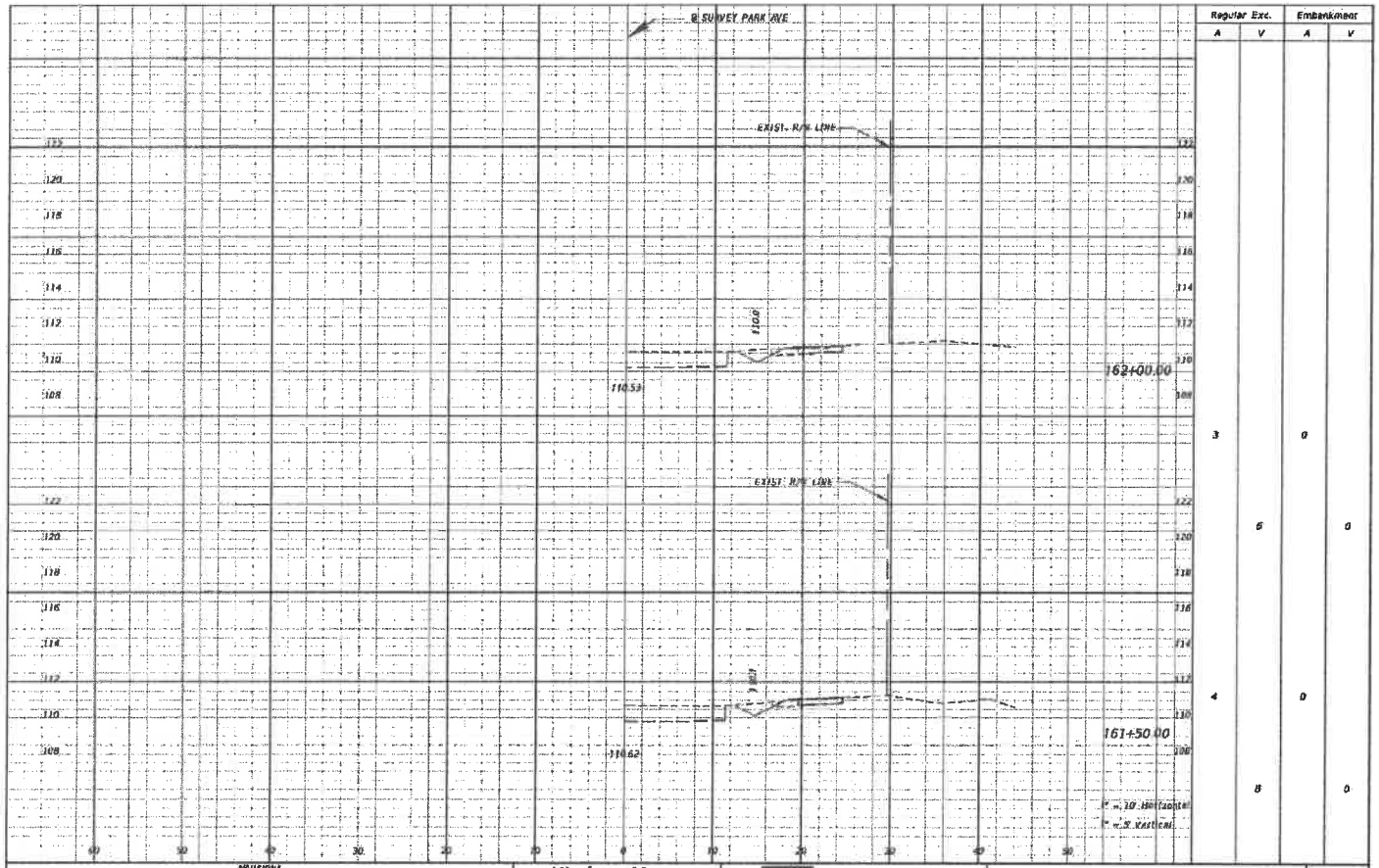
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley»Horn
Certificate Of Authorization No. 696
Alan T. Chau, P.E.
P.E. License No. 63640
189 Sixth Street Avenue, Suite 1000
Orlando, Florida 32801

TOWN OF WINDERMERE

CROSS SECTIONS

SHEET NO. 11



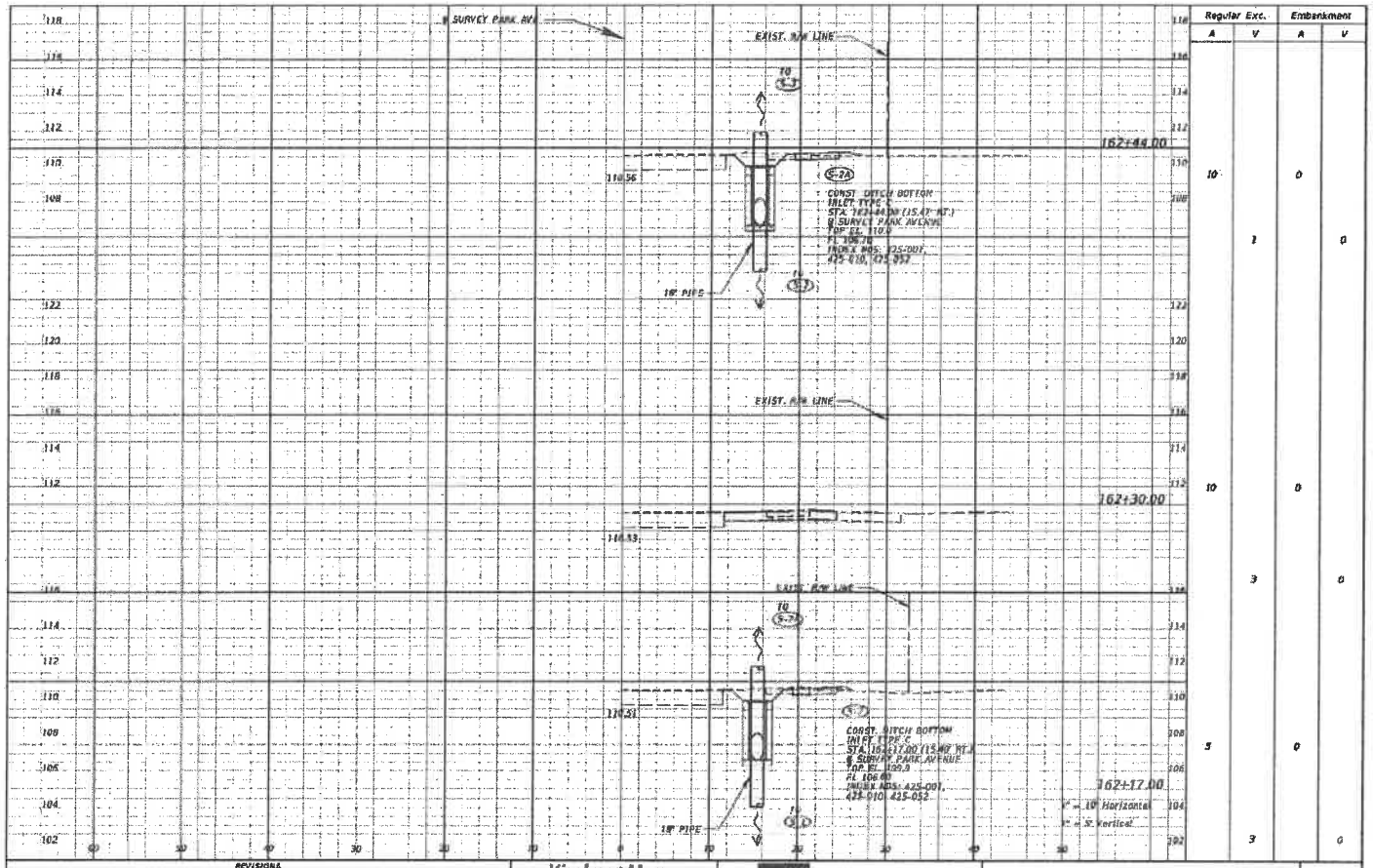
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley»Horn
Certificate Of Authorization No. 696
Mitch T. Chief, P.E.
P.E. License No. 61640
185 South Orange Avenue, Suite 1000
Orlando, Florida 32801

TOWN OF WINDERMERE

CROSS SECTIONS

SHEET NO. 12



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley»Horn
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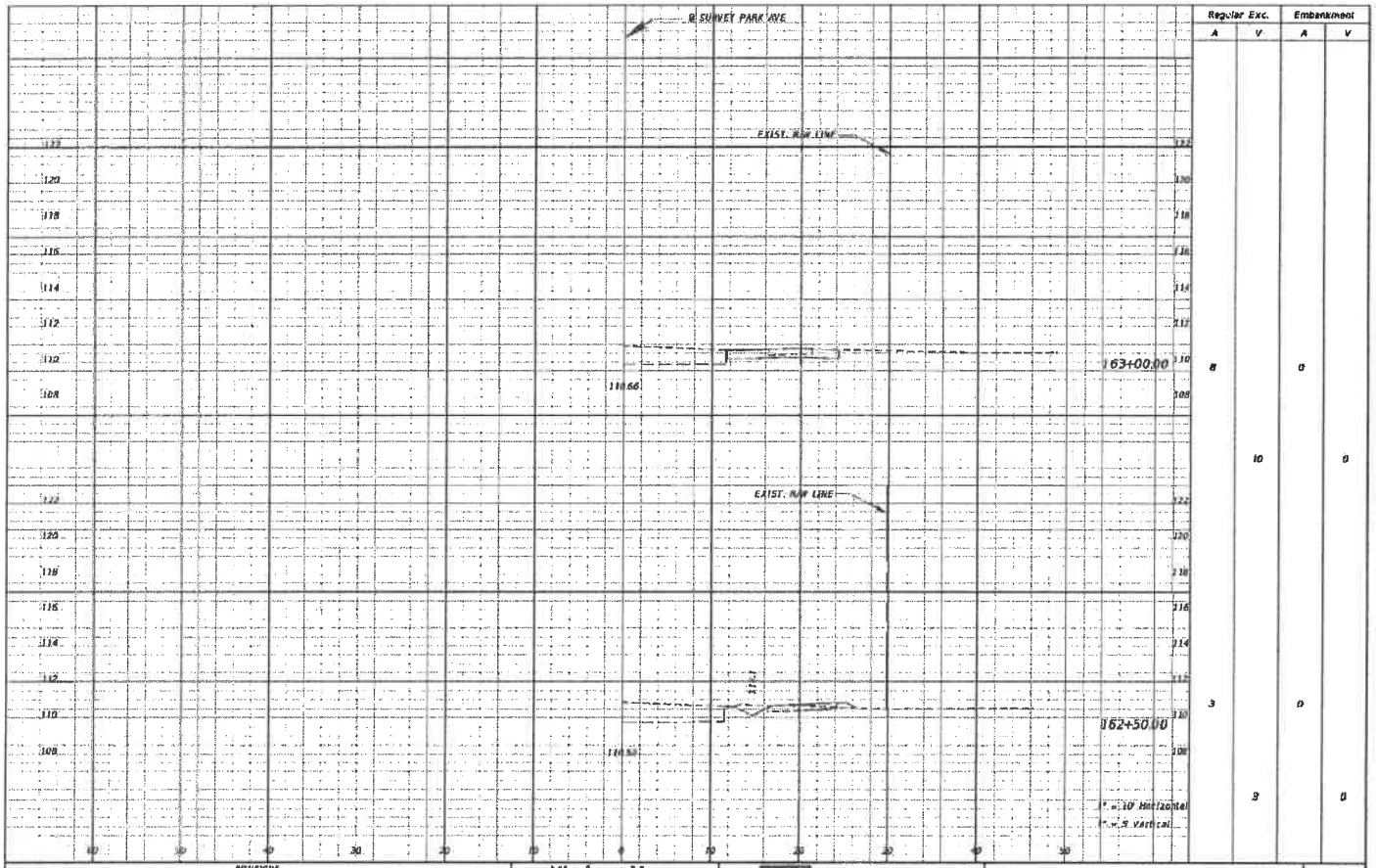
John T. Limbo, P.E.
P.E. License No. 61640
185 South Orange Avenue, Suite 1000
Orlando, Florida 32801

TOWN OF WINDERMERE

CROSS SECTIONS

SHEET NO. 13



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley»Horn
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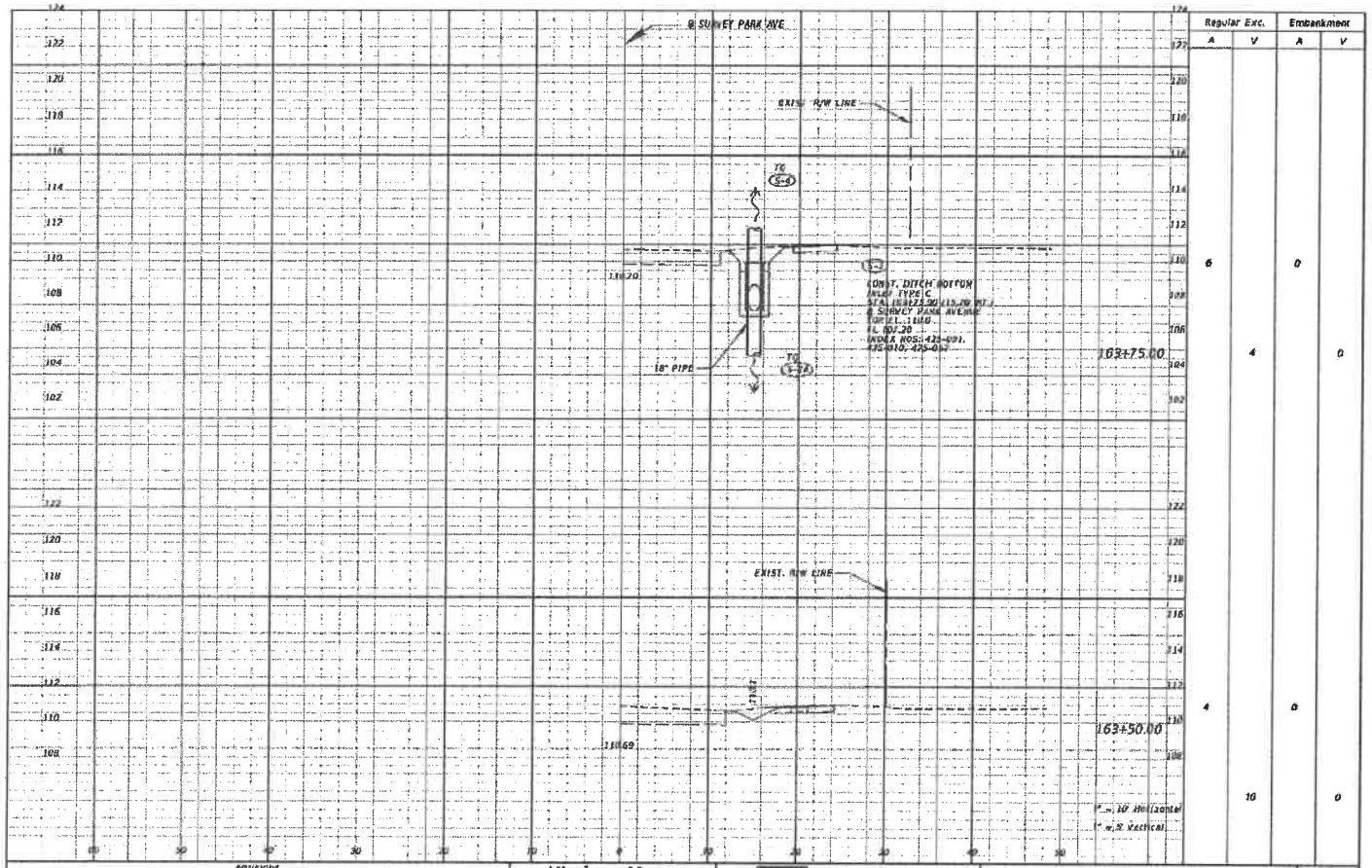
Hoo T. Chin, P.E.
P.E. License No. 67640
189 South Orange Avenue, Suite 1000
Orlando, Florida 32801

TOWN OF WINDERMERE

CROSS SECTIONS

SHEET NO.
14



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley»Horn
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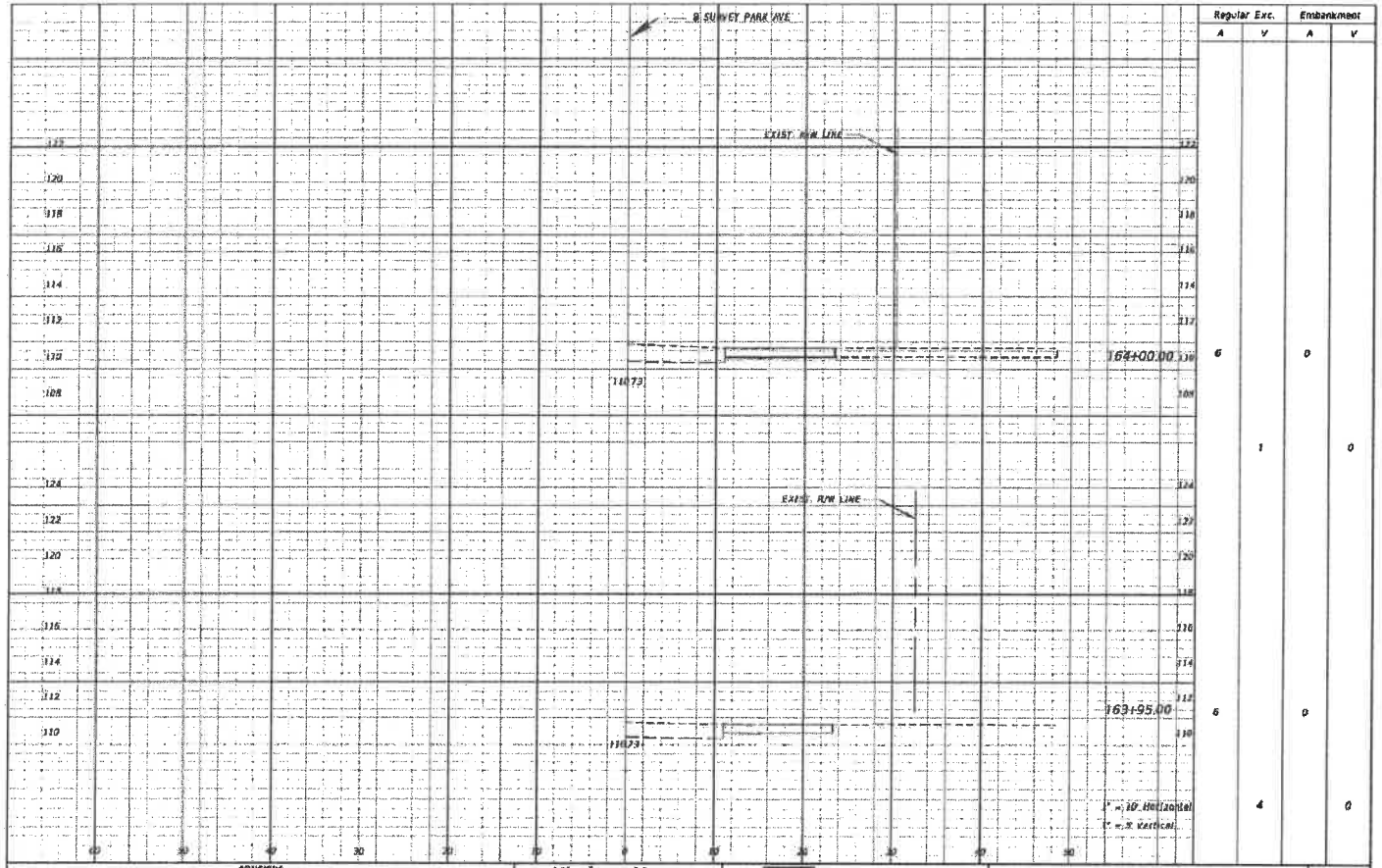
Orlando, Florida 32801

TOWN OF WINTERMERE

CROSS SECTIONS

SHEET NO. 15



Regular Exc.		Embankment	
A	V	A	V
6		0	
	1		0
6		0	
	4		0

REVISIONS			
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John T. Chiles, P.E.
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Orlando, Florida 32801

TOWN OF WINDERMERE

CROSS SECTIONS

SHEET NO. 16

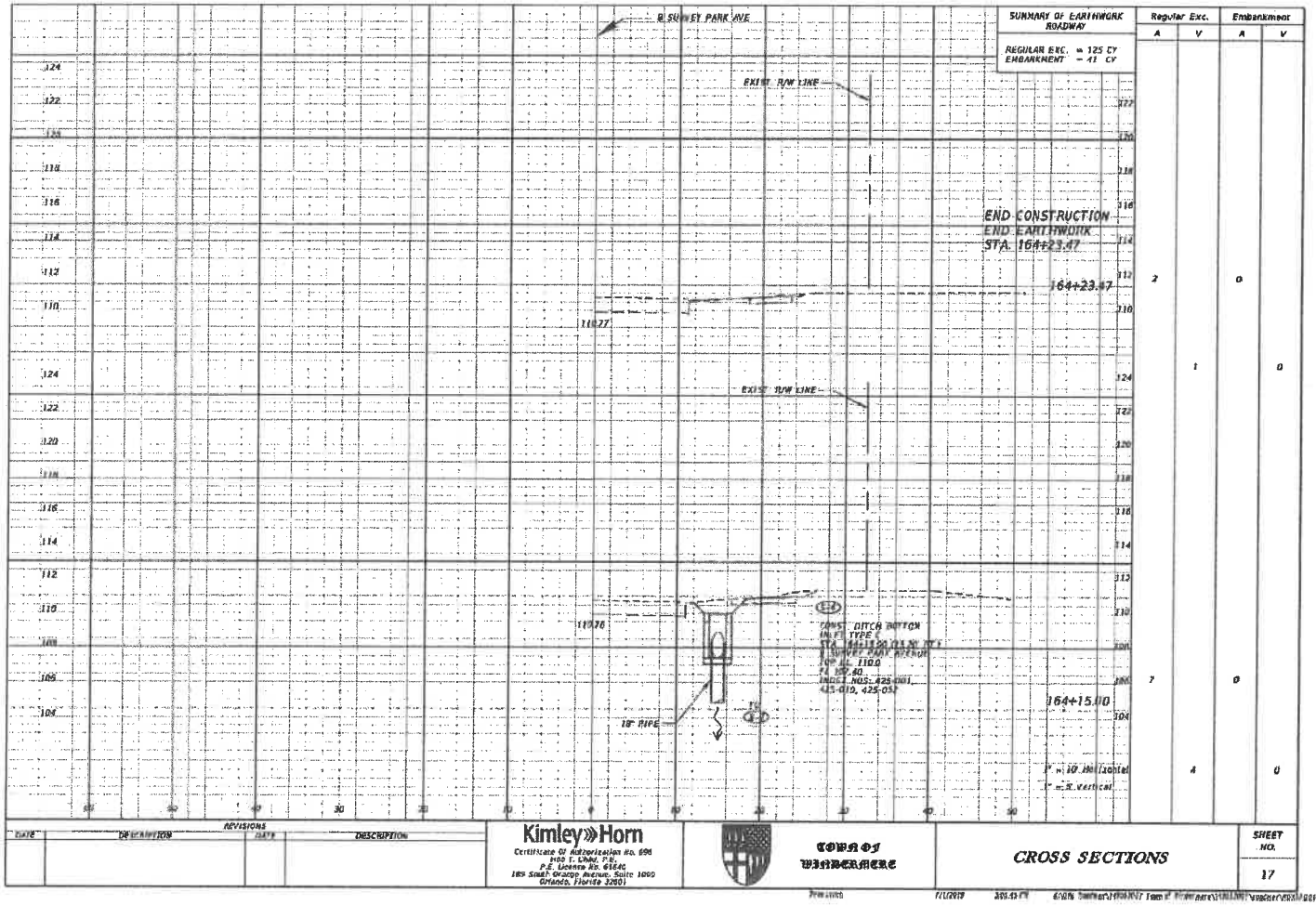
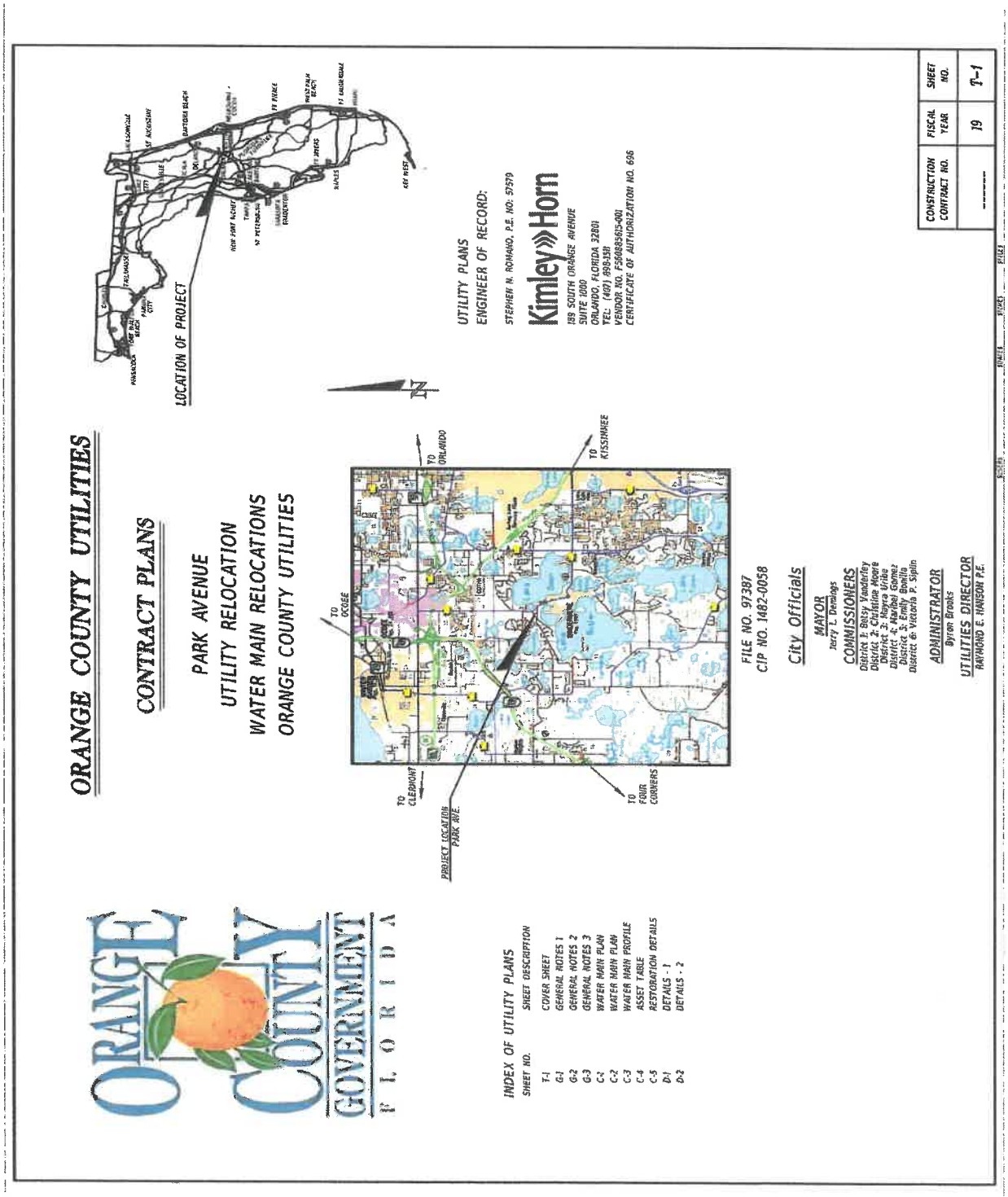

SUMMARY OF EARTHWORK
ROADWAY
REGULAR EXC. = 125 CY
EMBANKMENT = 41 CY
Regular Exc.
Embankment
A
V
A
V
2
0
1
0
7
0
4
0
R SUNSET PARK AVE
EXIST R/W LINE
END CONSTRUCTION
END EARTHWORK
STA. 164+23.47
164+23.47
110.77
EXIST R/W LINE
110.76
CONST. DITCH BOTTOM
INLET TYPE E
R SUNSET PARK AVENUE
TOP EL. 110.0
FL 105.40
INDEX NOS. 425-001,
425-010, 425-051
164+15.10
18" PIPE
1" = 10 Horizontal
1" = 2 Vertical
REVISIONS
DATE
DESCRIPTION
DATE
DESCRIPTION
Kimley»Horn
Certificate Of Authorization No. 696
1100 E. Ehrlich, P.E.
P.E. License No. 61640
189 South Orange Avenue, Suite 1000
Orlando, Florida 32801
TOWN OF
WINDERMERE
CROSS SECTIONS
SHEET
NO.
17

EXHIBIT "B"
UTILITIES PLANS



GENERAL NOTE: THE MATERIALS, PRODUCTS AND CONSTRUCTION OF WATER MAINS CONNECTING TO ORANGE COUNTY UTILITIES SYSTEM SHALL BE IN CONFORMANCE WITH THE CURRENT ORANGE COUNTY UTILITIES STANDARDS AND CONSTRUCTION SPECIFICATION MANUAL AND APPENDIX D OF SAID DOCUMENT. THE MANUAL IS LOCATED AT: ftp://fto.ocfl.net/divisions/Utilities/pub/PlanReview/ManualOfStandardsAndSpecs/Manual_Approved2011/Orange%20County%20Utilities%20Standards%20and%20Construction%20Specifications%20Manual.pdf

MEASUREMENT AND PAYMENT

1.01 DESCRIPTION

A. PAYMENT FOR ALL WORK DONE SHALL BE INCLUSIVE OF FURNISHING ALL MANPOWER, EQUIPMENT, MATERIALS, AND PERFORMANCE OF ALL OPERATIONS RELATIVE TO CONSTRUCTION OF THIS PROJECT, WILL BE MADE UNDER PAY ITEMS LISTED HEREIN. WORK FOR WHICH THERE IS NOT A PAY ITEM WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

B. THE OWNER RESERVES THE RIGHT TO ALTER THE DRAWINGS, MODIFY INCIDENTAL WORK AS MAY BE NECESSARY, AND INCREASE OR DECREASE QUANTITIES OF WORK TO BE PERFORMED TO ACCORD WITH SUCH CHANGES, INCLUDING DEDUCTION OR CANCELLATION OF ANY ONE OR MORE OF THE PAY ITEMS. CHANGES IN THE WORK SHALL NOT BE CONSIDERED AS A WAIVER OF ANY CONDITIONS OF THE CONTRACT NOR INVALIDATE ANY PROVISIONS THEREOF. WHEN CHANGES RESULT IN CHANGES IN QUANTITIES OF WORK TO BE PERFORMED, THE CONTRACTOR WILL ACCEPT PAYMENT ACCORDING TO CONTRACT UNIT PRICES THAT APPEAR IN THE ORIGINAL CONTRACT. A SUPPLEMENTAL AGREEMENT BETWEEN THE CONTRACTOR AND THE OWNER WILL BE REQUIRED WHEN SUCH CHANGES INVOLVE A NET INCREASE OR DECREASE OF MORE THAN 25 PERCENT OF THE ESTIMATED QUANTITY OF A PAYMENT ITEM WHERE THE ITEM AMOUNTS TO 10% OR MORE OF THE CONTRACT PRICE.

C. THE CONTRACTOR SHALL TAKE NO ADVANTAGE OF ANY APPARENT ERROR OR OMISSION IN THE DRAWINGS OR SPECIFICATIONS, AND THE ENGINEER SHALL BE PERMITTED TO MAKE CORRECTIONS AND INTERPRETATIONS AS MAY BE DEEMED NECESSARY FOR FULFILLMENT OF THE INTENT OF THE CONTRACT DOCUMENTS.

D. THE ENGINEER WILL MAKE MEASUREMENTS AND DETERMINATIONS AS NECESSARY TO CLASSIFY THE WORK WITHIN PAY ITEMS AND DETERMINE THE QUANTITIES FOR PAY PURPOSES; SUCH DECISIONS WILL BE FINAL AFTER 3 DAYS IF THE CONTRACTOR DOES NOT SUBMIT A WRITTEN NOTICE AS DEFINED IN THE FOLLOWING PARAGRAPH.

E. IF THE CONTRACTOR DIFFERS WITH THE ENGINEER'S CLASSIFICATION OF THE PAY ITEMS OR DETERMINATION OF QUANTITIES OF THE PAY ITEMS, HE MUST NOTIFY THE ENGINEER IN WRITING WITHIN 3 DAYS OF THE TIME THAT THE CONTRACTOR IS INFORMED OF THE ENGINEER'S DECISION. OTHERWISE THE OWNER WILL NOT CONSIDER ANY SUCH DIFFERENCE AS A CLAIM FOR PAYMENT.

F. FAILURE ON THE PART OF THE CONTRACTOR TO CONSTRUCT ANY ITEM TO PLAN OR AUTHORIZED DIMENSIONS WITHIN THE SPECIFICATION TOLERANCES SHALL RESULT IN RECONSTRUCTION TO ACCEPTABLE TOLERANCES AT NO ADDITIONAL COST TO THE OWNER, ACCEPTANCE AT NO PAY, OR, ACCEPTANCE AT REDUCED FINAL PAY QUANTITY OR REDUCED UNIT PRICE, ALL AT THE DISCRETION OF THE ENGINEER.

G. THE QUANTITY FOR A PAY ITEM WILL BE REVISED ONLY IN THE EVENT THAT IT IS DETERMINED TO BE SUBSTANTIALLY IN ERROR. AN ERROR SHALL BE DEEMED SUBSTANTIAL IF THE QUANTITY WILL INCREASE OR DECREASE IN EXCESS OF FIVE PERCENT OF THE ORIGINAL QUANTITY FOR THAT ITEM OR THE AMOUNT DUE FOR THAT ITEM WILL INCREASE OR DECREASE IN EXCESS OF $500 (WHICHEVER IS SMALLER). IN GENERAL, SUCH REVISIONS WILL BE DETERMINED BY FINAL MEASUREMENT OR PLAN CALCULATIONS OR BOTH AS ADDITIONS TO OR DEDUCTION FROM PLAN QUANTITIES SPECIFIED WITHIN THESE CONTRACT DOCUMENTS.

H. WORK SHALL NOT BE CONSIDERED COMPLETE UNTIL ALL TESTING HAS BEEN SATISFACTORILY COMPLETED AND THE ITEM OF WORK HAS DEMONSTRATED COMPLIANCE WITH PLANS AND SPECIFICATIONS.

I. A PRELIMINARY MONTHLY APPLICATION FOR PAYMENT SHALL BE SUBMITTED TO THE OWNER FOR REVIEW FIVE (5) DAYS PRIOR TO THE SUBMITTAL FOR APPROVAL OF THE CONTRACTOR'S MONTHLY PAYMENT REQUEST.

J. ALL MATERIALS SUPPLIED FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF "ORANGE COUNTY UTILITIES STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL, APPENDIX D – LIST OF APPROVED PRODUCTS". PRODUCTS THAT ARE SUBMITTED FOR USE ON THIS PROJECT THAT ARE NOT ON THE APPROVED LIST WILL NOT BE CONSIDERED AS ACCEPTABLE FOR USE.

1.02 APPLICATION FOR PAYMENT

A. APPLICATIONS FOR PAYMENT SHALL BE SUBMITTED BY THE CONTRACTOR TO THE OWNER'S RESIDENT PROJECT REPRESENTATIVE (RPR) IN ACCORDANCE WITH THE SCHEDULE ESTABLISHED BY GENERAL CONDITIONS AND AGREEMENT BETWEEN THE OWNER AND THE CONTRACTOR.

B. FORMAT:

SUBMIT APPLICATIONS TYPED ON FORMS PROVIDED BY THE OWNER. THE CONTRACROR SHALL PREPARE ITEMIZED CONTINUATION SHEETS USING THE ACCEPTED SCHEDULE OF VALUES AND ATTACH THEM TO THE APPLICATION. EACH ITEM SHALL HAVE AN ASSIGNED DOLLAR VALUE FOR THE CURRENT PAY PERIOD, AND A CUMULATIVE VALUE FOR THE PROJECT TO DATE. CHANGE ORDERS EXECUTED PRIOR TO THE DATE OF SUBMISSION SHALL BE LISTED AT THE END OF THE CONTINUATION SHEETS AND SHALL BE TOTALED SEPARATELY.

THE FOLLOWING ITEMS SHALL BE INCLUDED WITH EACH COPY OF THE APPLICATION FOR PAYMENT:

A. PROGRESS SCHEDULE
B. STORED MATERIAL LOG
C. PARTIAL RELEASE OF LIENS (FOR PAYMENT FOR STORED MATERIAL)
D. CONSENT OF SURETY
E. INVOICES FOR STORED MATERIALS
F. UPDATED RECORD DRAWINGS

THE CONTRACTOR SHALL CERTIFY, FOR EACH CURRENT PAY REQUEST, THAT ALL PREVIOUS PAYMENTS RECEIVED FROM THE OWNER, UNDER HIS CONTRACT, HAVE BEEN APPLIED BY THE CONTRACTOR TO DISCHARGE IN FULL ALL OBLIGATIONS OF THE CONTRACTOR IN CONNECTION WITH WORK COVERED BY PRIOR APPLICATIONS FOR PAYMENT, AND ALL MATERIALS AND EQUIPMENT INCORPORATED INTO THE WORK ARE FREE AND CLEAR OF ALL LIENS, CLAIMS, SECURITY INTEREST AND ENCUMBRANCES. CONTRACTOR SHALL ATTACH TO EACH APPLICATION FOR PAYMENT LIKE AFFIDAVITS BY ALL SUBCONTRACTORS AND SUPPLIERS. CONTRACTOR SHALL ALSO ATTACH A "CONSENT OF SURETY" TO EACH APPLICATION FOR PAYMENT. ADDITIONALLY, A "PARTIAL RELEASE OF LIEN" FOR EACH SUBCONTRACTOR AND SUPPLIER SHALL BE ATTACHED TO EACH APPLICATION FOR PAYMENT.

SUBMIT SEVEN (7) COPIES OF EACH APPLICATION TO THE RESIDENT PROJECT REPRESENTATIVE. EACH COPY SHALL INCLUDE ORIGINAL SIGNATURES. THE RESIDENT PROJECT REPRESENTATIVE SHALL REVIEW THE APPLICATION AND VERIFY QUANTITIES OF INSTALLED WORK AND STORED MATERIALS. UPON RPR APPROVAL, THE CONTRACTOR SHALL SUBMIT THE APPLICATION TO THE OWNER FOR REVIEW. WHEN THE OWNER FINDS THE APPLICATION PROPERLY COMPLETED AND CORRECT, THE OWNER WILL MAKE PAYMENT TO THE CONTRACTOR.

C. WORK NOT INSTALLED IN ACCORDANCE WITH THEREQUIREMENTS OF THE CONTRACT DOCUMENTS OR MATERIALS NOT CONFORMING TO THE CONTRACT DOCUMENTS WILL NOT BE

REVISIONS			
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ORANGE COUNTY UTILITIES DEPARTMENT

PARK AVENUE UTILITY RELOCATIONS

GENERAL NOTES 1

SHEET NO. G-1

APPROVED BY THE RESIDENT PROJECT REPRESENTATIVE, OWNER OR OWNER/ENGINEER FOR PAYMENT.

D. UNIT PRICE CONTRACTS/ITEMS. LINEAR FEET SHALL BE MEASURED ALONG THE HORIZONTAL LENGTH OF THE CENTERLINE OF THE INSTALLED MATERIAL, UNLESS OTHERWISE SPECIFIED. PIPE SHALL BE MEASURED ALONG THELENGTH OF THE COMPLETED PIPELINE, REGARDLESS OF THE TYPE OF JOINT REQUIRED, WITHOUT DEDUCTION FOR THE LENGTH OF VALVES OR FITTINGS.

E. LUMP SUM CONTRACT/ITEMS. THE MEASUREMENT OF WORK FOR LUMP SUM CONTRACTS AND/OR ITEMS SHALL BE BASED ON THE INFORMATION COMPILED BY THE CONTRACTORS OWN FIELD VERIFICATIONS AND INVESTIGATIONS AND TESTING RPIOR TO BIDDING.

F. THE FOLLOWING DESCRIBES THE SPECIFIC WORK AND METHODS OF MEASUREMENT FOR THE ITEMS LISTED IN THE BID SCHEDULE. MEASUREMENT AND PAYMENT FOR EACH BID ITEM SHALL INCLUDE ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO PERFORM THE WORK INCLUDED FOR THAT RESPECTIVE ITEM TO PROVIDE A COMPLETE AND OPERABLE INSTALLATION. RELATED WORK NOT SPECIFICALLY LISTED OR IDENTIFIED, BUT EVIDENTLY NECESSARY FOR SATISFACTORY COMPLETION OF THE ITEM, SHALL BE CONSIDERED TO BE INCLUDED.

G. NO SEPARATE PAYMENT WILL BE MADE FOR THE FOLLOWING WORK AND ITS COST SHALL BE INCLUDED IN THE APPROPRIATE PAY ITEM:

APPLICATIONS AND PULLING OF ALL UTILITY AND CONSTRUCTION PERMITS
SHOP DRAWINGS, WORKING DRAWINGS, AND SAMPLES
FIELD ENGINEERING, SURVEYING AND LAYOUT
CLEARING AND GRUBBING
TRENCH EXCAVATION, SHEETING SHORING AND BRACING
LOCATING AND SUPPORTING EXISTING UTILITIES
STRUCTURAL FILL, BACKFILL, COMPACTION AND GRADING
SODDING
CLEANUP
TESTING MATERIALS AND APPARATUS, INCLUDING PROVISIONS FOR WATER TO FILL, FLUSH, AND TEST MAINS
FITTINGS AND PIPE RESTRAINTS

2.0 PAY ITEMS

2.01 MOBILIZATION, DEMOBILIZATION & BONDS (PAY ITEM 1)

A. WORK INCLUDES: LOCATING EXISTING RIGHT-OF-WAYS, EXISTING ITEMS TO REMAIN AND/OR BE REMOVED AND STAKING OF PROPOSED STRUCTURES AND PIPING ALIGNMENT AS NECESSARY TO PROPERLY CONSTRUCT THE PROJECT IN ACCORDANCE WITH THE PLANS. ALL DEVIATIONS FROM THE PLANS MUST BE APPROVED IN WRITING BY THE OWNER PRIOR TO CONSTRUCTION. PAYMENT OF SEVENTY-FIVE PERCENT (75%) OF THE APPLICABLE LUMP SUM PRICE FOR THE ITEM SHALL BE FULL COMPENSATION FOR THE PREPARATORY WORK AND OPERATIONS IN MOBILIZING FOR BEGINNING WORK ON THE PROJECT, INCLUDING, BUT NOT LIMITED TO, THOSE OPERATIONS NECESSARY FOR THE MOVEMENT OF PERSONNEL, EQUIPMENT, SUPPLIES AND INCIDENTALS TO THE PROJECT SITE, AND FOR ESTABLISHMENT OF FIELD OFFICES, STORAGE SHEDS, SAFETY EQUIPMENT AND FIRST AID SUPPLIES, SANITARY AND OTHER FACILITIES, BONDS, PERMITS, AND FEES, CONSTRUCTION SCHEDULES, PROJECT SIGNS, INSURANCE, AND ANY OTHER PRECONSTRUCTION EXPENSE NECESSARY FOR THE START OF THE WORK. PAYMENT OF THE REMAINING TWENTY-FIVE PERCENT (25%) OF THE APPLICABLE LUMP SUM PRICE FOR THE ITEM SHALL INCLUDE THOSE OPERATIONS, MATERIALS, LABOR, AND EQUIPMENT NECESSARY FOR CLEANUP OF STORAGE/LAYDOWN YARD, DEMOBILIZATION FROM THE SITE, AND ASSOCIATED WORK TO CLOSE OUT THE PROJECT AND WILL BE PAID WITH THE FINAL PAY REQUEST.

B. UNIT OF MEASUREMENT IS LUMP SUM. THE AMOUNT OF THIS BID ITEM SHALL NOT EXCEED FIVE PERCENT (5%) OF THE TOTAL BASE BID.

2.02 INDEMNIFICATION (PAY ITEM 2)

IN CONSIDERATION OF THE CONTRACTOR'S INDEMNITY AGREEMENT AS STATED IN THE CONTRACT DOCUMENTS, OWNER AGREES THAT SUCH SPECIFIC CONSIDERATION SHALL BE $100.00 AND OTHER GOOD AND VALUABLE CONSIDERATION, RECEIPT OF WHICH IS ACKNOWLEDGED UPON SIGNING OF THE AGREEMENT. TO THE FULLEST EXTEND PERMITTED BY LAW, THE CONTRACTOR (OR CONSULTANT) SHALL INDEMNIFY, HOLD HARMLESS AND DEFEND THE OWNER, ITS AGENTS, SERVANTS, AND EMPLOYEES FROM AND AGAINST ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES INCLUDING, BUT NOT LIMITED TO, ATTORNEY'S FEES AND OTHER LEGAL COSTS SUCH AS THOSE FOR PARALEGAL, INVESTIGATIVE AND LEGAL SUPPORT SERVICES AND THE ACTUAL COST INCURRED FOR EXPERT WITNESS TESTIMONY, ARISING OUT OF OR RESULTING FROM THE PERFORMANCE OF SERVICES REQUIRED UNDER THIS AGREEMENT, PROVIDED THAT SAME IS CAUSED IN WHOLE OR PART BY THE ERROR, OMISSION, NEGLIGENT ACT, CONDUCT OR MISCONDUCT OF THE CONTRACTOR, ITS AGENTS, SERVANTS, EMPLOYEES, OR SUBCONTRACTORS. IN ACCORDANCE WITH SECTION 725.06, FLORIDA STATUTES, ADEQUATE CONSIDERATION HAS BEEN PROVIDED TO THE CONTRACTOR FOR THIS OBLIGATION, THE RECEIPT AND SUFFICIENCY OF WHICH IS HEREBY SPECIFICALLY ACKNOWLEDGED.

2.03 PRECONSTRUCTION VIDEO (PAY ITEM 3)

A. WORK INCLUDES: PRECONSTRUCTION DOCUMENTATION VIA DIGITAL VIDEO TAPING PLUS ALL DIGITAL OR 35MM COLOR PHOTOGRAPHS NECESSARY TO PICK UP DETAIL NOT EASILY VISIBLE OR APPARENT ON THE DIGITAL VIDEO TAPE.

B. PAYMENT FOR THIS ITEM SHALL BE LUMP SUM DIVIDED INTO EQUAL MONTHLY PAYMENTS BASED ON THE CONTRACT TIME.

2.04 RECORD DRAWINGS (PAY ITEM 4)

A. WORK INCLUDES: THE PREPARATION AND MAINTENANCE OF AS-BUILT DATA ON A SET OF CONTRACT DOCUMENTS TO BE AVAILABLE ON-SITE. THE FINAL PREPARATION OF RECORD DRAWINGS SHALL BE PREPARED IN ACCORDANCE WITH ORANGE COUNTY UTILITIES STANDARDS, 2011 EDITION.

B. PAYMENT SHALL BE LUMP SUM AND PAID WITH THE FINAL PAY REQUEST.

2.05 UTILITY MAINTENANCE OF TRAFFIC (PAY ITEM 5)

A. MEASUREMENT OF THE LUMP SUM ITEM TO INCLUDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR THE CONSTRUCTION OF THE UTILITY WORK AS REQUIRED BY THE MAINTENANCE OF TRAFFIC TECHNICAL PROVISION (PART H, TP 102) OF THIS CONSTRUCTION CONTRACT.

B. PAYMENT OF THE LUMP SUM PRICE SHALL BE FULL COMPENSATION FOR FURNISHING ALL LABOR, MATERIALS AND EQUIPMENT TO PROVIDE SAFE AND EFFECTIVE MAINTENANCE OF TRAFFIC OF VEHICULAR AND PEDESTRIAN TRAFFIC, INCLUDING BUT NOT LIMITED TO, PREPARATION AND SUBMITTAL OF A COMPLETE TRAFFIC CONTROL PLAN, TEMPORARY LANES, WALKS OR DRAINAGE FACILITIES, FLAGMEN, SIGNS, BARRICADES, CHANNELIZATION DEVICES, LIGHTS AND OTHER PROTECTIVE DEVICES NECESSARY FOR THE CONSTRUCTION OF THE UTILITY WORK. THIS WORK ITEM ALSO INCLUDES TEMPORARY ASPHALT TO FACILITATE ORANGE COUNTY UTILITY WORK. OPEN CUT AND RESTORATION SHALL BE IN COMPLIANCE WITH FDOT STANDARDS. THIS ITEM WILL BE PAID BASED ON THE PRECENTAGE OF THE TOTAL VALUE OF THE WORK PERFORMED TO DATE PROPORTIONAL TO THE ORIGINAL CONTRACT AMOUNT FOR THE RESPECTIVE LINE ITEM.

2.06 FURNISH AND INSTALL WATER MAIN (PAY ITEM 6)

A. WORK INCLUDES: FURNISHING ALL LABOR, MATERIALS, AND EQUIPMENT, AND CONSTRUCTING THE RESPECTIVE PIPELINE'S COMPLETE INSTALLATION INCLUDING ALL DIP POLYETHYLENE ENCASEMENT, CLEARING AND GRUBBING, PROTECTION OF EXISTING UTILITIES, EXCAVATION, SHEETING, SHORING AND BRACING, BACKFILL, COMPACTION, GRADING, TEMPORARY EROSION CONTROL, SURVEY, LAYOUT, PIPELINE IDENTIFICATION AND WARNING TAPE, THRUST RESTRAINTS, SODDING, ALL TESTING (INCLUDING PRESSURE AND BACTERIOLOGICAL), FLUSHING OR PIGGING,

DISPOSAL OF EXCESS MATERIAL, AND RESTORATION OF AREA. THIS ITEM ALSO INCLUDES ALL NECESSARY PIPE FITTINGS INCLUDING REDUCERS, BENDS, TEES, WYES, PLUGS, SLEEVES, RESTRAINING DEVICES, NUTS, BOLTS, GASKETS, LINE LOCATION WIRES, REMOVAL AND REPLACEMENT OF SIDEWALKS, REMOVAL AND REPLACEMENT OF FENCES, MAILBOXES, SHRUBS, IRRIGATION SPRINKLERS, AND OTHER OBSTRUCTIONS, TREE REMOVAL OR PROTECTION, INSTALLATION OF SILT FENCE, CONNECTION TO (AND MECHANICAL RESTRAINT OF) EXISTING PIPES OR STRUCTURES AND ALL OTHER ITEMS INCIDENTAL TO THE CONSTRUCTION OF THE PIPELINES. CONTRACTOR SHALL PROVIDE CERTIFICATION THAT ALL PIPE WAS PROPERLY INSTALLED AS PER THE MANUFACTURER'S REQUIREMENTS. THIS PAY ITEM ALSO INCLUDES OPEN CUT AND RESTORATION OF ROADWAY INCLUDING MILLING AND RESURFACING THE ROADWAY WITHIN THE LIMITS SHOWN ON THE PLANS.

B. THE UNITS OF MEASUREMENT FOR THIS ITEM WILL BE LINEAL FEET OF DUCTILE IRON WATER MAIN ACTUALLY FURNISHED AND INSTALLED.

2.07 FURNISH AND INSTALL GATE VALVES (PAY ITEM 7)

A. WORK INCLUDES: FURNISHING ALL LABOR, MATERIALS AND EQUIPMENT INCLUDING DEWATERING, EXCAVATION, SHEETING, SHORING, BRACING, INSTALLATION BACKFILL, COMPACTION, VALVE BOXES ADJUSTED TO GRADE, VALVE NUT EXTENSIONS AND COVER, CONCRETE COLLARS AND PADS, IDENTIFICATION DISCS, LOCATING WIRES, ACCESSORIES, TEMPORARY EROSION CONTROL, CONNECTION TO NEW AND/OR EXISTING PIPES, THRUST RESTRAINT, LEAKAGE TESTING AND RESTORATION. CONTRACTOR SHALL BE REQUIRED TO CUT A "V" IN THE CURBING TO INDICATE THE LOCATION OF THE VALVE.

B. UNIT OF MEASUREMENT IS THE NUMBER OF GATE VALVES WITH THE VALVE NUT EXTENSION AND VALVE BOXES SATISFACTORILY FURNISHED AND INSTALLED COMPLETE WITH COVERS AND CONCRETE COLLARS.

2.08 FURNISH AND INSTALL TAPPING SLEEVE AND TAPPING VALVE (PAY ITEMS 8-9)

A. WORK INCLUDES: FURNISHING ALL LABOR, MATERIALS AND EQUIPMENT, INCLUDING DEWATERING, EXCAVATION, SHEETING, SHORING, BRACING, INSTALLATION BACKFILL, COMPACTION, VALVE BOXES ADJUSTED TO GRADE, VALVE NUT EXTENSIONS AND COVER, CONCRETE COLLARS AND PADS, IDENTIFICATION DISCS, LOCATING WIRES, ACCESSORIES, TEMPORARY EROSION CONTROL, CONNECTION TO NEW AND/OR EXISTING PIPES, THRUST RESTRAINT, LEAKAGE TESTING AND RESTORATION, INSTALLATION OF TAPPING SLEEVE, TAPPING VALVE AND VALVE BOX, TAPPING OF MAIN LINE, THRUST RESTRAINT, AND TESTING. THIS WORK INCLUDES TAPPING OF EXISTING POTABLE WATER MAINS AND EXISTING FORCE MAINS. PAYMENT WILL ONLY BE MADE FOR THOSE TAPPING SLEEVES AND VALVES THAT ARE ACTUALLY INSTALLED. THE COUNTY RESERVES THE RIGHT TO DELETE IN THE LOCATIONS WHERE THEY ARE NOT USED DURING CONSTRUCTION

B. UNIT OF MEASUREMENT IS EACH SLEEVE AND VALVE SATISFACTORILY FURNISHED AND INSTALLED.

2.09 FURNISH AND INSTALL LINE STOPS (PAY ITEM 10)

A. WORK INCLUDES: FURNISHING ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO INSTALL EACH LINE STOP ASSEMBLY INCLUDING PIPE BORING, TEMPORARY VALVES OR PLUGS, RESTRAINT OF ALL EXISTING PIPE PER RESTRAINED PIPE TABLES, RECOVERY OF THE TEMPORARY VALVES AND PLUGS, AND SEALING OF THE BORE HOLE WITH A PERMANENT PLUG AND PROPERLY CAPPING OF THE EXISTING LINE. RESTRAINT INFORMATION SHALL BE PROVIDED WITH SHOP DRAWING SUBMITTAL. THIS ITEM ALSO INCLUDES CLEARING AND GRUBBING, TEMPORARY EROSION CONTROL, EXCAVATION, SHEETING, SHORING AND BRACING, DEWATERING, BACKFILL, COMPACTION, PROTECTION OF EXISTING POTABLE WATER SYSTEM AND FORCE MAINS, DISINFECTION FOR WATER SYSTEM, RESTORATION, SODDING AND CLEAN UP.

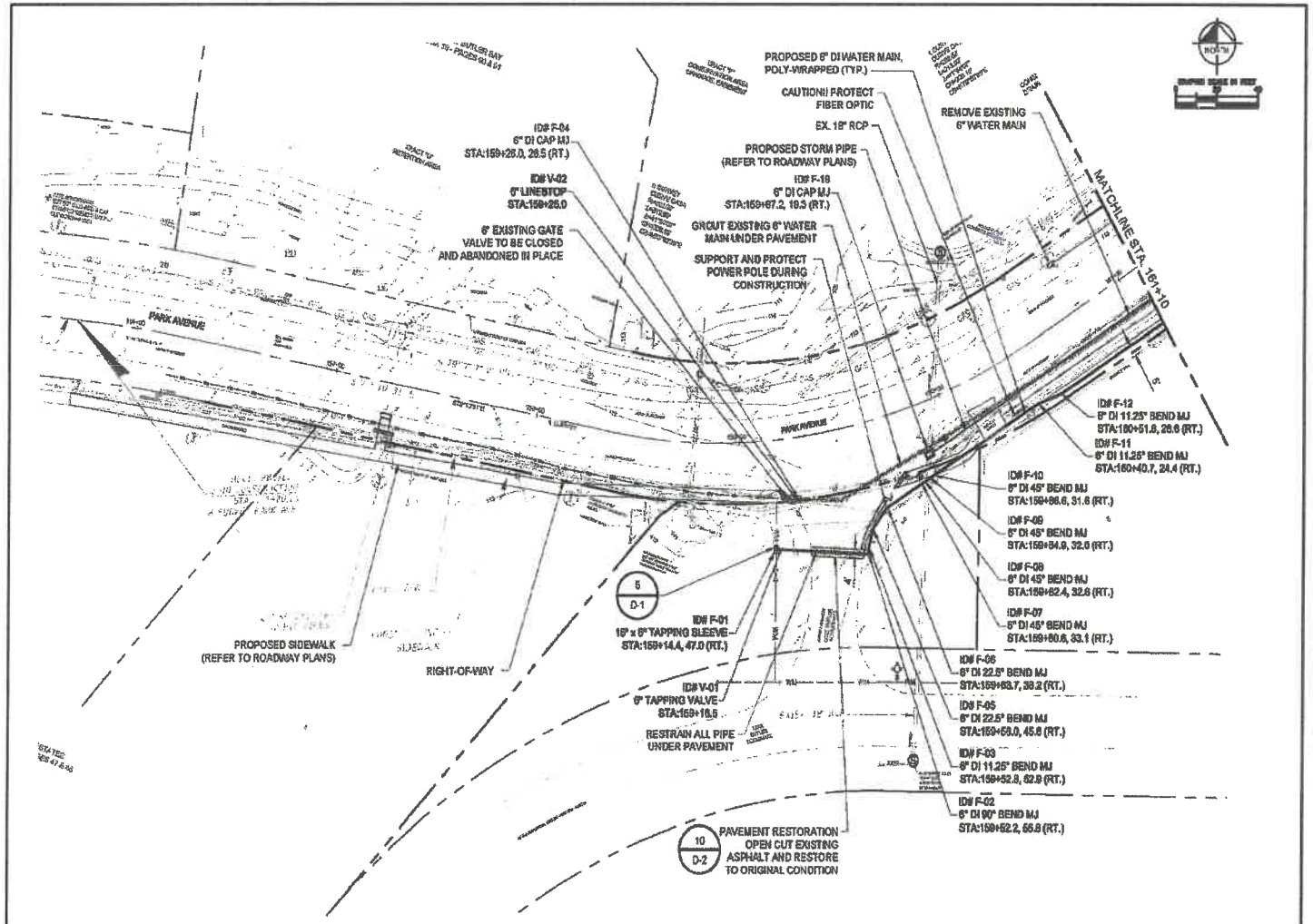
B. UNIT OF MEASUREMENT: THE QUANTITY FOR PAYMENT SHALL BE THE ACTUAL NUMBER OF LINE STOP ASSEMBLIES SATISFACTORILY FURNISHED AND INSTALLED INCLUDING ALL RESTRAINTS TO EXISTING LINES.

2.10 GROUTING AND REMOVAL OF EXISTING PIPE (PAY ITEM 11)

A. WORK INCLUDES: THE WORK OF THIS ITEM SHALL INCLUDE ALL LABOR, MATERIALS AND NECESSARY EQUIPMENT FOR THE REMOVAL OF EXISTING AND TEMPORARY WATER MAINS, GRAVITY MAINS OR FORCE MAINS AS CALLED FOR ON THE PLANS, WHICH INCLUDES DRAINING AND PROPER DISPOSAL OF PIPE AND CONTENTS, DISCONNECTION FROM EXISTING MAINS OR STRUCTURES AND INSTALLATION OF ANY DUCTILE IRON CAPS OR PLUGS THAT MAY BE REQUIRED. THIS ITEM ALSO INCLUDES ALL CLEARING AND GRUBBING, ANY MOT THAT MAY BE REQUIRED FOR UTILITY LINE REMOVAL, PROTECTION OF EXISTING UTILITIES, EXCAVATION, SHEETING, SHORING AND BRACING, DEWATERING INCLUDING ALL TESTING MONITORING AND PROPER DISPOSAL OF GROUNDWATER, BACKFILL, COMPACTION, GRADING, SODDING, DISPOSAL OF EXCESS MATERIAL, AND RESTORATION OF AREA AS WELL AS THE REMOVAL AND DISPOSAL OF ANY SERVICE LINES CONNECTED TO THE PIPES AS WELL AS THE PROPER DISPOSAL OF REMOVED MATERIALS AND RESTORATION AFTER COMPLETION OF CONSTRUCTION OPERATIONS. REMOVAL OF THE EXISTING AND/OR TEMPORARY MAINS SHALL OCCUR FOLLOWING NEW LINE INSTALLATIONS AND FDEP CLEARANCE. THIS PAY ITEM ALSO INCLUDES OPEN CUT AND RESTORATION OF ROADWAY.

B. BASIS OF PAYMENT FOR THIS PAY ITEM WILL BE THE ACTUAL LINEAR FEET OF PIPE REMOVED OR GROUTED AS MEASURED ALONG THE CENTERLINE OF THE REMOVED PIPE.

PAY ITEM #	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
1	MOBILIZATION DEMOBILIZATION AND BONDS (5% MAXIMUM)	LS	1		
2	INDEMNIFICATION	LS	1		
3	PRECONSTRUCTION VIDEO	LS	1		
4	RECORD DRAWINGS	LS	1		
5	MAINTENANCE OF TRAFFIC	LS	1		
6	FURNISH AND INSTALL 6" DIP	FT	325		
7	FURNISH AND INSTALL 6" GATE VALVE	EA	2		
8	FURNISH AND INSTALL TAPPING SLEEVE AND VALVE 6"X6"	EA	1		
9	FURNISH AND INSTALL TAPPING SLEEVE AND VALVE 16"X6"	EA	1		
10	FURNISH AND INSTALL 6" LINESTOP	EA	2		
11	REMOVAL/GROUTING OF EXISTING PIPE	FT	325		
				TOTAL	



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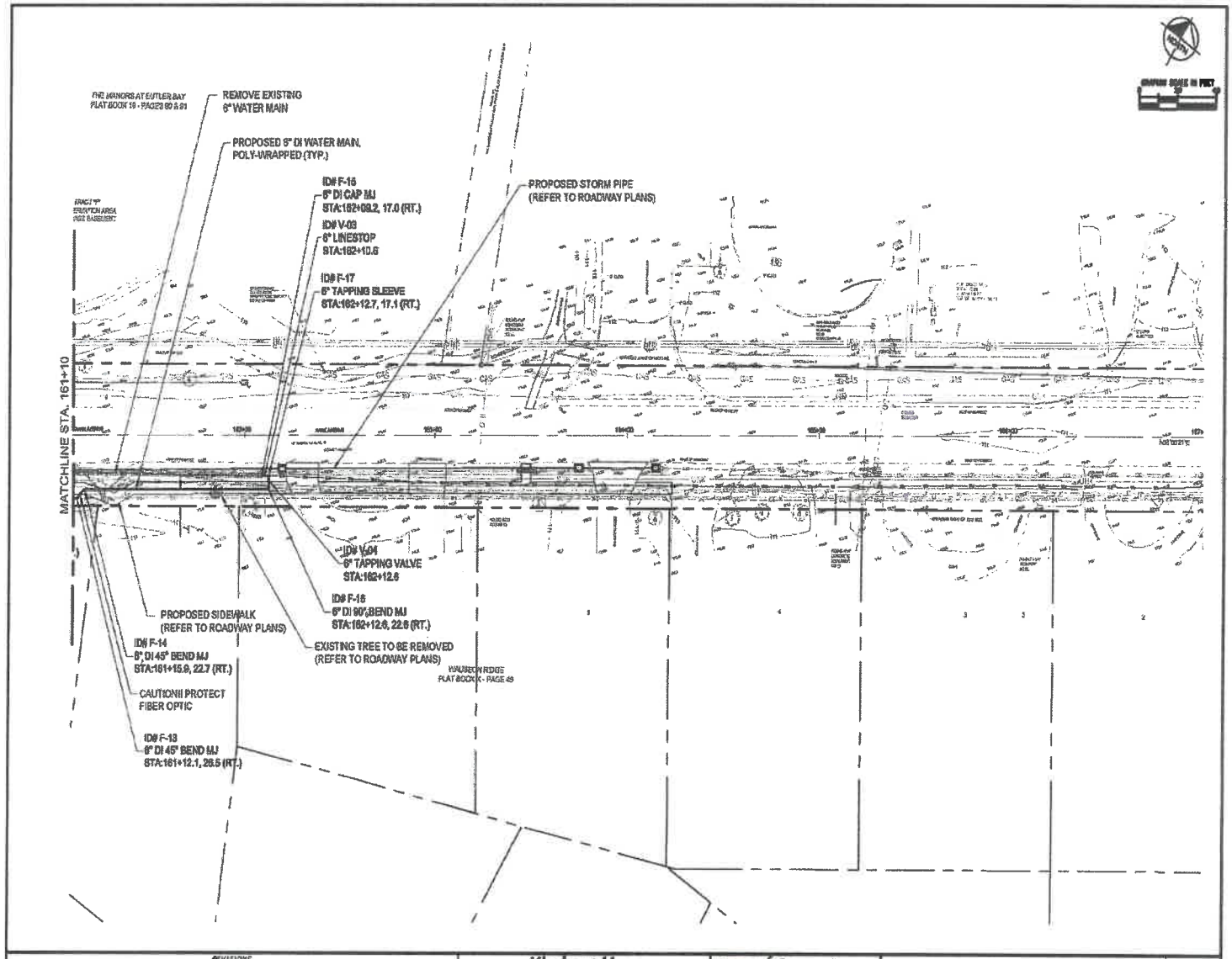
ORANGE COUNTY UTILITIES DEPARTMENT

PARK AVENUE UTILITY RELOCATIONS

WATER MAIN PLAN

SHEET NO. C-1



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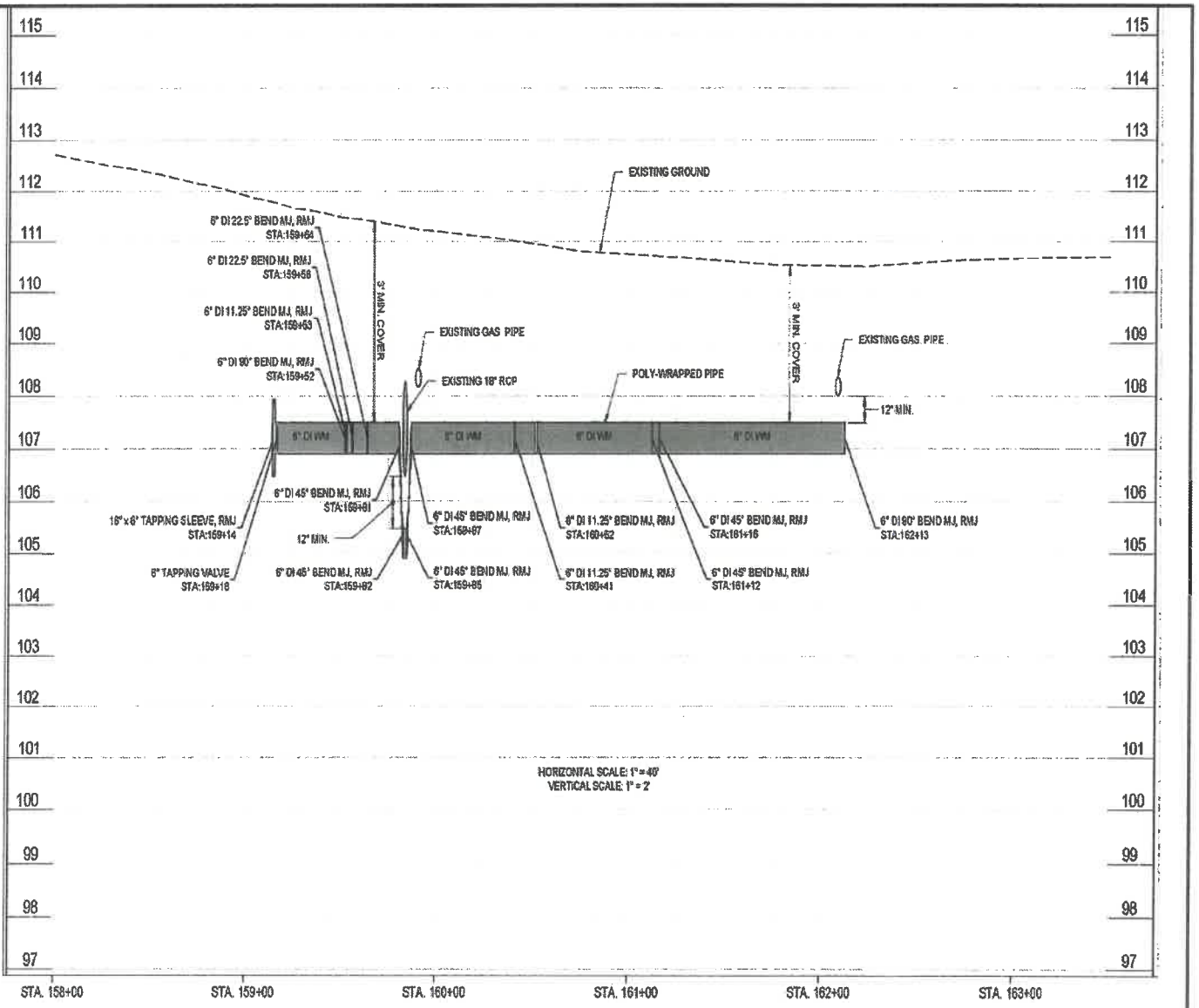
ORANGE COUNTY UTILITIES DEPARTMENT

PARK AVENUE UTILITY RELOCATIONS

WATER MAIN PLAN

SHEET NO.
C-2



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ORANGE COUNTY UTILITIES DEPARTMENT

PARK AVENUE UTILITY RELOCATIONS

WATER MAIN PROFILE

SHEET NO. C-3

FITTING TABLE					
ID NUMBER	DESCRIPTION	STATION	ELEVATION	NORTHING	EASTING
F-01	16" x 6" TAPPING SLEEVE				
F-02	6" DI 90° BEND MJ				
F-03	6" DI 11.25° BEND MJ				
F-04	6" DI CAP MJ				
F-05	6" DI 22.5° BEND MJ				
F-06	6" DI 22.5° BEND MJ				
F-07	6" DI 45° BEND MJ				
F-08	6" DI 45° BEND MJ				
F-09	6" DI 45° BEND MJ				
F-10	6" DI 45° BEND MJ				
F-11	6" DI 11.25° BEND MJ				
F-12	6" DI 11.25° BEND MJ				
F-13	6" DI 45° BEND MJ				
F-14	6" DI 45° BEND MJ				
F-15	6" DI CAP MJ				
F-16	6" DI 90° BEND MJ				
F-17	6" TAPPING SLEEVE				
F-18	6" DI CAP MJ				

VALVE ASSET TABLE					
ID NUMBER	DESCRIPTION	STATION	ELEVATION	NORTHING	EASTING
V-01	6" TAPPING GV MJ				
V-02	6" LINESTOP				
V-03	6" LINESTOP				
V-04	6" TAPPING GV MJ				

REVISIONS			
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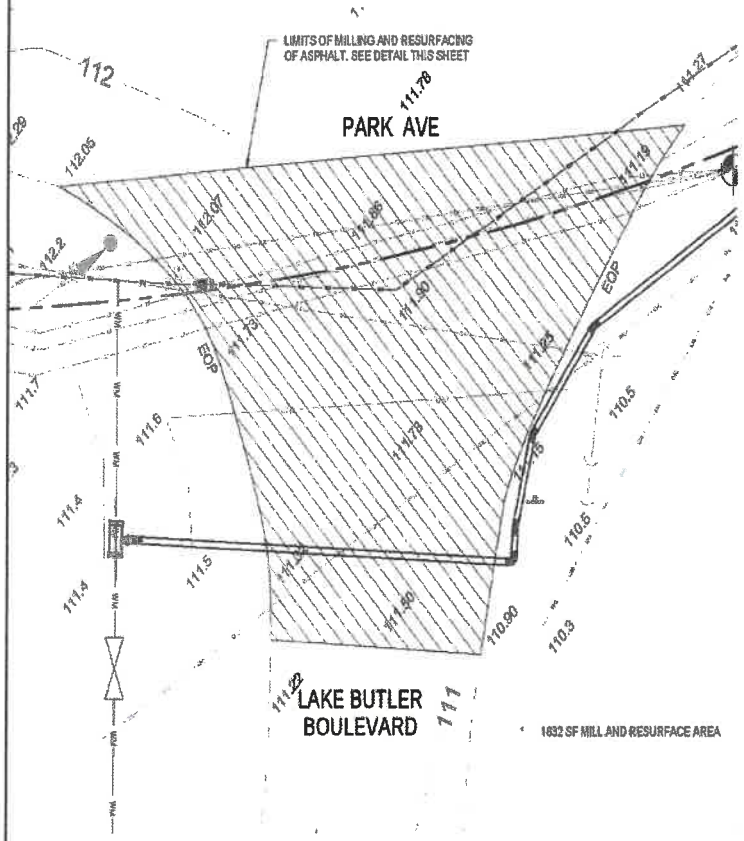
ORANGE COUNTY UTILITIES DEPARTMENT

PARK AVENUE UTILITY RELOCATIONS

ASSET TABLE

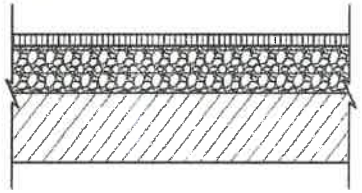
SHEET NO.

C-4



LIMITS OF MILLING AND RESURFACING
SCALE: 1" = 10'

- MILL EXISTING ASPHALT PAVEMENT 1-INCH AVERAGE DEPTH
- RESURFACE 1-INCH ASPHALT SURFACE COURSE (FDOT SUPERPAVE 9.5 TL-C)



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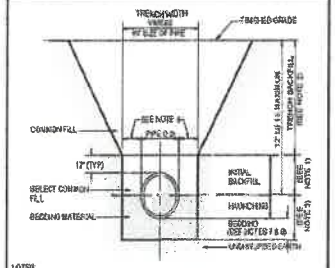
ORANGE COUNTY UTILITIES DEPARTMENT

PARK AVENUE UTILITY RELOCATIONS
RESTORATION DETAIL

SHEET NO. C-5

DATE: February 11, 2011 — BEDDING AND TRENCHING - TYPE A — FIGURE A101



NOTES:
1. INITIAL BACKFILL SELECT COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS DETERMINED BY ASTM D698.
2. TRENCH BACKFILL COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS DETERMINED BY ASTM D698.
3. TYPE A BEDDING MATERIAL SHALL CONFORM TO FDOT NO. 57 AGGREGATE
4. 18" MAX. (12" MIN.) FOR PIPE DIAMETER LESS THAN 24" AND 24" MAX. (12" MIN.) FOR PIPE DIAMETER 24" AND LARGER
5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
7. BEDDING DEPTH SHALL BE 6" MINIMUM FOR PIPE DIAMETER UP TO 12" AND 12" MINIMUM FOR PIPE DIAMETER 16" AND LARGER
8. DEPTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL CONVEY DEPTHS OF BEDDING PACK BELOW THE PIPE. WHERE SHALL DETERMINE IN DEPTHS REQUIRED REMOVAL OF UNSUITABLE MATERIAL TO REACH SUITABLE FOUNDATION
9. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN ORANGE COUNTY RIGHT-OF-WAY SHALL COMPLY WITH THE GUIDELINES OF RIW UTILIZATION REGULATIONS AND ROAD CONSTRUCTION SPECIFICATIONS.

DETAIL 1/D-1

NO SCALE

DATE: February 11, 2011 — SEPARATION REQUIREMENTS FOR WATER, WASTEWATER AND RECLAIMED WATER MAINS — FIGURE A110

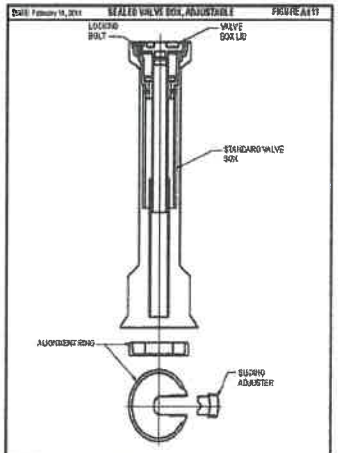
HORIZONTAL & VERTICAL SEPARATION REQUIREMENTS								
PROPOSED UTILITY	POTABLE WATER		RECLAIMED WATER		WASTEWATER (GRAVITY & FM)		STORM SEWER	
	HORIZ	VERT	HORIZ	VERT	HORIZ	VERT	HORIZ	VERT
POTABLE WATER	3' NOTE 1	12"	3' NOTE 1	12" NOTE 2	6' NOTE 3	12" NOTE 3	3' NOTE 1	12"/18" NOTE 2 & 4
RECLAIMED WATER	3' NOTE 1 & 3	12" NOTE 2	3' NOTE 1	12"	3' NOTE 1	12"	3' NOTE 1	12"/18" NOTE 2
WASTEWATER (GRAVITY AND FM)	6' NOTE 3	12" NOTE 2	3' NOTE 1	12"	3' NOTE 1	12"	3' NOTE 1	12"/18" NOTE 2
FRONT OF WALK	3' NOTE 5	N/A	3' NOTE 1	N/A	3' NOTE 1	N/A	N/A	N/A

NOTES:
1. THIS SEPARATION REQUIREMENT IS TO PROVIDE ACCESSIBILITY FOR CONSTRUCTION AND MAINTENANCE. THREE FEET OF HORIZONTAL SEPARATION IS THE MINIMUM FOR PIPES WITH THREE FEET OF COVER. FOR PIPES INSTALLED AT GREATER DEPTHS, PROVIDE AN ADDITIONAL FOOT OF SEPARATION FOR EACH ADDITIONAL FOOT OF DEPTH.
2. THE 18-INCH SEPARATION REQUIREMENT APPLIES WHEN THE STORM PIPE CROSSES ABOVE THE POTABLE MAIN, AND WHEN THE STORM PIPE HAS A DIAMETER EQUAL TO OR GREATER THAN 24 INCHES. OTHERWISE, THE REQUIRED SEPARATION IS 12 INCHES.
3. THIS SEPARATION REQUIREMENT COMPLIES WITH MINIMUM FDEP SEPARATION REQUIREMENTS CITED IN FAC 62-555.314. FAC VARIANCES FROM THE FDEP REQUIREMENTS MUST COMPLY WITH 62-555.314(3). FAC AND MUST BE APPROVED INDIVIDUALLY BY BOTH FDEP AND OCU.
4. DISTANCES GIVEN ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
5. NO WATER PIPE SHALL PASS THROUGH OR CONTAIN CONTACT WITH ANY PART OF SANITARY OR STORM SEWER MANHOLE OR STRUCTURE.

DETAIL 2/D-1

NO SCALE

DATE: February 11, 2011 — SEALED VALVE BOX, ADJUSTABLE — FIGURE A111

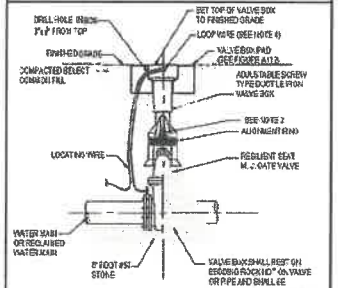


NOTES:
1. FOR ALL MAINS 8' DEEP OR GREATER
2. FOR MAINS 18" IN DIAMETER OR GREATER REGARDLESS OF DEPTH

DETAIL 3/D-1

NO SCALE

DATE: February 11, 2011 — GATE VALVE AND BOX WATER AND RECLAIMED WATER MAINS — FIGURE A107

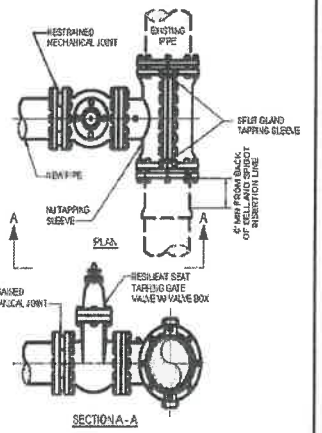


NOTES:
1. PVC PIPE OR DUCTILE IRON PIPE EXTENSIONS SHALL NOT BE USED ON VALVE BOX INSTALLATION
2. THE VALVE ACTUATING NUT SHALL BE EXTENDED TO BE WITHIN 3' OF FINISHED GRADE
3. PROVIDE A PLASTIC DEBRIS SHIELD ALONG ENTIRE ROD WHICH INSTALLED BELOW THE VALVE ACTUATING NUT. THIS SHIELD SHALL CENTER THE ROD IN PIPE BOX OVER THE ACTUATING NUT AND MINIMIZE INFILTRATION.
4. LOCATING WIRE SHALL BE CONTINUOUS WITHOUT SPLICES AND SHALL EXTEND 12" ABOVE TOP OF COLLAR. WIRE SHALL BE COLOR CODED TO MATCH THE UTILITY INSTALLED.
5. FOR NEW CONSTRUCTION, THE VALVE BOX SHALL BE ADJUSTED TO FINGRADE TO ALLOW FOR FUTURE BOX ADJUSTMENTS.
6. REFER TO FIGURE A111 FOR INSTALLATION AT A DEPTH OF 6' OR GREATER

DETAIL 4/D-1

NO SCALE

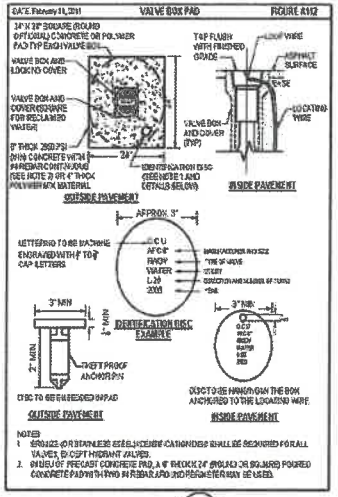
DATE: February 11, 2011 — HOT TAPPING SLEEVE AND GATE VALVE ASSEMBLY FOR WATER AND RECLAIMED WATER — FIGURE A121-4



DETAIL 5/D-1

NO SCALE

DATE: February 11, 2011 — VALVE BOX PAD — FIGURE A112



NOTES:
1. BRONZE OR STAINLESS STEEL HOSE CLAMPS SHALL BE SECURED FOR ALL VALVES, BY DOT HYDRANT VALVES.
2. SHIELD OF PRECAST CONCRETE PAD, 4" THICK 24" (ROUND) OR SQUARE POURED CONCRETE PAD WITH REBAR AND PERIMETER MAY BE USED.

DETAIL 6/D-1

NO SCALE

DATE: February 11, 2011 — RESTRAINED PIPE TABLE WATER AND RECLAIMED WATER MAINS — FIGURE A104-1

MINIMUM LENGTH (FT) TO BE RESTRAINED ON EACH SIDE OF FITTING(S)										
TYPE	PIPE SIZE									
	PVC					DIP				
	4"	6"	8"	10"	12"	10"	12"	24"	30"	36"
90° BEND	25	36	46	56	64	65	77	93	105	120
45° BEND	10	15	19	23	26	27	32	37	44	50
22-1/2° BEND	5	8	9	11	12	13	15	18	20	24
11-1/4° BEND	3	4	5	6	6	7	8	9	10	12
PLUG OR DEADEND OF TEE	63	74	87	107	125	138	168	224	291	355
VALVE	31	38	45	57	68	68	83	97	115	139
REDUCER	VARIES BY SIZE, TO BE DETERMINED BY THE DESIGN ENGINEER									

NOTES:
1. FITTINGS SHALL HAVE RESTRAINED JOINTS UNLESS OTHERWISE INDICATED
2. INSTALL FULL LENGTH JOINTS WITHOUT FULL LENGTH OF PIPE, TO OR GREATER THAN LENGTH SHOWN IN THE TABLE.
3. WHERE TWO OR MORE FITTINGS ARE IN SERIES, SELECT FITTING RESTRAINT LENGTH THAT YIELDS THE LONGEST RESTRAINT DISTANCE.
4. ALL BLIND VALVES SHALL BE RESTRAINED
5. WHERE INTERNAL RESTRAINED JOINTS ARE USED, THE ENTIRE BELL SHALL BE PAINTED RED.
6. LENGTHS SHOWN IN THE TABLE WERE CALCULATED IN ACCORDANCE WITH PROCEDURES OUTLINED IN "TRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" GUIDELINES PUBLISHED BY DIPRA, USING THE ASSUMPTIONS SHOWN BELOW:

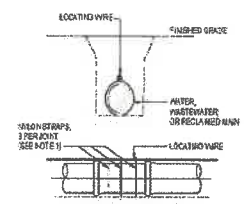
WORKING PRESSURE: 150 PSI
SOIL DESIGNATION: SM (SANDY SILT)
LAYING CONDITIONS: 3
DEPTH OF COVER: 3 FT
SAFETY FACTOR: 1.5
CONVERSION FACTOR FOR PVC PIPE: 1.25

THE DESIGN ENGINEER SHALL INCREASE THE VALUES IN THE TABLE ABOVE AS WARRANTED BY SITE SPECIFIC SOIL DESIGNATIONS, LAYING CONDITIONS, PIPE MATERIAL, ETC. FOR DIP ENCASED IN POLYETHYLENE, INCREASE THE GIVEN VALUE BY A FACTOR OF 1.25.

DETAIL 7/D-1

NO SCALE

DATE: February 11, 2011 — PIPE LOCATING WIRE — FIGURE A114



NOTES:
1. ALL PIPE SHALL BE GIVEN INSULATED LOCATING WIRE (12 GAUGE SOLID COPPER) CAPABLE OF DETECTION BY A CABLE LOCATOR AND SHALL BE WRAPPED WITH NYLON STRAPS TO TOP CENTERLINE OF THE PIPE.
2. LOCATING WIRE SHALL BE CONTINUOUS INSIDE VALVE BOXES AND SHALL EXTEND 12" ABOVE TOP OF COLLAR.
3. WIRE INSULATION SHALL BE COLOR CODED FOR THE TYPE OF PIPE BEING INSTALLED

DETAIL 8/D-1

NO SCALE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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ORANGE COUNTY UTILITIES DEPARTMENT

PARK AVENUE UTILITY RELOCATIONS

DETAILS - 1

SHEET NO. D-1

SHEETS SHEETS SHEETS SHEETS

OCU GENERAL NOTES

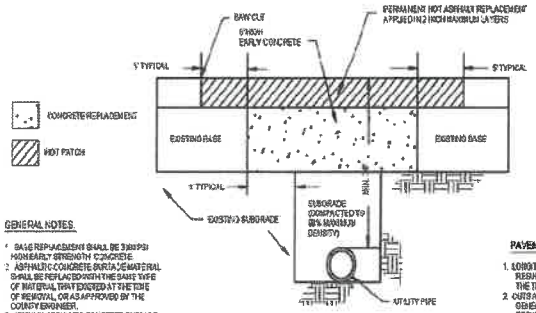
1. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN EXCAVATING IN PROXIMITY OF WATER MAINS, WASTEWATER FORCE MAINS, SEWER MAINS AND RECLAIMED WATER MAINS. MAIN LOCATIONS SHOWN ON PLANS MAY NOT BE EXACT. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXISTING UTILITY LOCATIONS.
2. SHOULD A PIPE EMERGENCY OCCUR, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OCU DISPATCH OPERATOR (407-836-2777) AND THE OCU INSPECTOR.
3. THE CONTRACTOR SHALL NOTIFY THE OCU CONSTRUCTION DIVISION AT LEAST SEVEN DAYS PRIOR TO COMMENCEMENT OF THE CONSTRUCTION PROJECT BY CALLING (407) 254-9799.
4. THE CONTRACTOR SHALL NOTIFY THE OCU CONSTRUCTION DIVISION AT LEAST 48 HOURS PRIOR TO ANY UTILITIES CONSTRUCTION BY CALLING (407) 254-9799.
5. THE MATERIALS, PRODUCTS, AND CONSTRUCTION OF ALL UTILITIES CONNECTING TO THE OCU SYSTEM SHALL BE IN CONFORMANCE WITH THE ORANGE COUNTY UTILITIES STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL.
6. ALL OCU MAINS AND FACILITIES WITHIN THE LIMITS OF THE PROJECT SHALL BE SUPPORTED AND PROTECTED AGAINST DAMAGE DURING CONSTRUCTION.
7. THE CONTRACTOR, AT THE CONTRACTOR'S EXPENSE, SHALL IMMEDIATELY REPAIR ALL DAMAGES TO OCU MAINS AND FACILITIES. IF THE REPAIR IS NOT MADE IN A TIMELY MANNER, AS DETERMINED BY OCU, OCU MAY PERFORM REQUIRED REPAIRS AND CLEANUP. THE CONTRACTOR WILL BE CHARGED FOR ALL EXPENSES ASSOCIATED WITH THE REPAIR.
8. THE CONTRACTOR SHALL ADJUST ALL EXISTING OCU MAINS AND FACILITIES IN CONFLICT WITH NEW GRADE, NEW OR ALTERED ROADWAYS, SIDEWALKS, DRIVEWAYS, OR STORM WATER IMPROVEMENTS. OCU FACILITIES TO BE ADJUSTED INCLUDE, BUT ARE NOT LIMITED TO PIPELINES, PUMP STATIONS, VALVE BOXES, AIR RELEASE VALVES, FIRE HYDRANTS, MANHOLE COVERS, AND METERS.
9. ONLY OCU SHALL OPERATE OCU WATER, WASTEWATER, AND RECLAIMED WATER VALVES. THE CONTRACTOR SHALL COORDINATE VALVE OPERATION WITH THE OCU INSPECTOR. FOR OPERATION OF MAINS NOT OWNED BY OCU, IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE APPROPRIATE UTILITY REPRESENTATIVE.
10. CONSTRUCTION ACTIVITIES SHALL NOT CAUSE INTERRUPTIONS IN WATER, WASTEWATER, OR RECLAIMED WATER SERVICE. THE CONTRACTOR SHALL COORDINATE THIS APPROVED INTERRUPTIONS OF SERVICE WITH THE OCU INSPECTOR 7 WORKING DAYS IN ADVANCE.
11. THE CONTRACTOR SHALL PROVIDE FOR BYPASSING AND/OR HAULING WASTEWATER DURING APPROVED INTERRUPTIONS OF WASTEWATER FLOWS AND CONNECTIONS. THE CONTRACTOR SHALL SUBMIT A BYPASS PLAN SIGNED AND SEALED BY A PROFESSIONAL ENGINEER TO OCU DEVELOPMENT ENGINEERING FOR APPROVAL PRIOR TO IMPLEMENTATION BY CONTRACTOR.
12. ALL VALVES INSTALLED AS PART OF THIS CONSTRUCTION PROJECT SHALL REMAIN CLOSED DURING CONSTRUCTION. KEEP VALVES ON ALL WET TAPS CLOSED UNTIL CLEARED BY FDEP. DO NOT CONNECT NEWLY CONSTRUCTED WATER MAINS TO ANY EXISTING WATER MAINS UNLESS CLEARED BY FDEP AND OCU.
13. THE CONTRACTOR SHALL PROVIDE A JUMPER ASSEMBLY WITH A BACKFLOW PREVENTER FOR MAKING TEMPORARY CONNECTIONS TO AN EXISTING POTABLE WATER SOURCE IN ORDER TO CHLORINATE AND FLUSH NEW WATER MAINS WITH POTABLE WATER. ANY TEMPORARY POTABLE WATER CONNECTIONS TO RECLAIMED WATER OR FORCEMAIN SHALL ALSO BE EQUIPPED WITH A BACKFLOW PREVENTER.
14. FOR PVC PIPE THAT WILL BE OWNED AND MAINTAINED BY OCU, NO PIPE BENDING IS ALLOWED. THE MAXIMUM ALLOWABLE TOLERANCE FOR JOINT DEFLECTION IS 0.75 DEGREES (9 INCHES PER JOINT PER 20 FT STICK OF PIPE). ALIGNMENT CHANGE SHALL BE MADE ONLY WITH SLEEVES AND FITTINGS.
15. FOR NON-PVC PIPE THAT WILL BE OWNED AND MAINTAINED BY OCU, LONG RADIUS CURVES, EITHER HORIZONTAL OR VERTICAL, MAY BE INSTALLED WITH STANDARD PIPE BY DEFLECTIONS AT THE JOINTS. MAXIMUM DEFLECTIONS AT PIPE JOINTS, FITTINGS AND LAYING GRADES FOR THE VARIOUS PIPE LENGTHS SHALL NOT EXCEED 75 PERCENT OF THE PIPE MANUFACTURER'S RECOMMENDATION.

DETAIL 9 / D-2

NO SCALE

NOTE:

SUB-GRADE CUT TO BE COMPACTED TO 98% MAX. DENSITY AS DETERMINED BY AASHTO T-180. CUT TO BE REPLACED WITH MIN. 2,500 PSI HIGH EARLY CONCRETE TO TOP OF EXISTING BASE. CUT AREA TO BE PLATED OR PROTECTED OVER THE DAY OF POUR. EXISTING SURFACE TO BE CUT TO AN AREA 5 FEET BEYOND BASE CUT.



GENERAL NOTES

1. BASE REPLACEMENT SHALL BE 3,000 PSI HIGH EARLY STRENGTH CONCRETE.
2. ASPHALTIC CONCRETE SURFACE MATERIAL SHALL BE REPLACED WITH THE SAME TYPE OF MATERIAL THAT EXISTED AT THE TIME OF REMOVAL, OR AS APPROVED BY THE COUNTY ENGINEER.
3. MINIMUM ASPHALTIC CONCRETE SURFACE OVERLAY THICKNESS SHALL BE ONE (1) INCH OR AS APPROVED BY THE COUNTY ENGINEER.
4. ALL JOINT CUTS SHALL BE MECHANICALLY BAR CUT.

PAVEMENT RESTORATION

1. LONGITUDINAL CUTS MAY REQUIRE OVERLAY/RESURFACING OF THE COMPLETE WIDTH OF THE TRAVELLED WAY.
2. CUTS AT INTERSECTIONS OF STREETS GENERALLY MAY REQUIRE A COMPLETE OVERLAY/RESURFACING TO THE END OF ALL RETURN BLOCK AND ALSO TO A POINT TEN (10') FEET BEYOND THE CUT, WHICHEVER IS GREATER.
3. ACTUAL REQUIREMENTS WILL BE AS STATED ON THE APPROVED PERMIT.

STANDARD ROADWAY OPENCUT DETAIL

FINAL RESTORATION - TYPICAL OF MAJOR OPEN CUTS

DETAIL 10 / D-2

NO SCALE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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ORANGE COUNTY UTILITIES DEPARTMENT

PARK AVENUE UTILITY RELOCATIONS

DETAILS - 2

SHEET NO. D-2

USERS DATES STATES STYLES

EXHIBIT "C"
UTILITY COST ESTIMATE

Estimated Construction Costs for Park Avneue Water Main Relocation

Pay Item	Description	Unit	Qty	Unit Price	Total Amount
1	Mobilization, Demobiliztion and Bonds (5% maximum)	LS	1	5%	$6,000.00
2	Indemnification	LS	1	$5,000.00	$5,000.00
3	Preconstruction Video	LS	1	$5,000.00	$5,000.00
4	MOT	LS	1	$10,000.00	$10,000.00
5	Furnish and Install 6-inch DI	LF	325	$100.00	$32,500.00
6	Furnish and Install 6-inch Gate Valve	EA	2	$3,000.00	$6,000.00
7	Furnish and Install 6x6 Tapping Sleeve and Valve	EA	1	$7,500.00	$7,500.00
8	Furnish and Install 16x6 Tapping Sleeve and Valve	EA	1	$15,000.00	$15,000.00
9	Furnish and install 6-inch Line Stop	EA	2	$10,000.00	$20,000.00
10	Removal/Grouting of existing pipeline	LF	325	$50.00	$16,500.00
11	Record Drawings	LS	1	$5,000.00	$5,000.00
	Subtotal				**$128,500.00**
	Contingency 15%				$19,238.00
	Total				**$147,738.00**