

To be completed by DOT	
Drainage Connection Permit No. <u>2020-D-191-00002</u>	Date <u>1/29/2020</u>
Received By <u>One-Stop Permitting System</u>	Maintenance Unit <u>191</u>
State Road No. <u>35</u>	Work Program Project No. _____
Section No. <u>010</u>	Construction Project No. _____
Milepost <u>0.231</u>	Station _____

Instructions for Drainage Connection Permit

Pursuant to 14-86.004(6), F.A.C. “The Drainage Connection Permit form serves as the application. Once approved by the Department, the form and supporting documents become the Drainage Connection Permit.”

The applicant shall submit four completed permit packages with original signatures. Each package shall include all required attachments. All required signed and sealed plans and supporting documentation shall be submitted on no larger than (11” X 17”) multipurpose paper, unless larger plan sheets are requested by the reviewer. The package will include the following items. If an item does not apply to your project, indicate “Not Applicable” or “N/A.”

Included	Part	Title	Completed by:	Special Instructions
✓	1	Permit Information Sheet	Applicant	
✓	2	Certification by a Licensed Professional	Licensed Professional	Signed and Sealed
✓	3	Certification	Applicant	Signature
✓	4	Owner’s Authorization of a Representative	Owner	Signature
	5	Affidavit of Ownership or Control and Statement of Contiguous Interest	Owner	Signature
✓	6	Permit General Conditions	FDOT	
✓	7	Permit Special Conditions	FDOT	
	8	As-Built Certification	Licensed Professional	Signed and Sealed – Submit within 15 working days of completion of construction
	Attachment	Legal Description		
	Attachment	Photographs of Existing Conditions		
✓	Attachment	Location Map		
	Attachment	Grading Plan	Licensed Professional	Signed and Sealed
	Attachment	Soil Borings		
	Attachment	Water Table / Percolation		
✓	Attachment	Calculations		
	Attachment	CD with Electronic Files of all Submittal Items		Scanned Images in pdf format

Note: Different Licensed Professionals may complete parts of the permit package. For example the Licensed Professional signing and sealing the as-built certification may be different from the Licensed Professional who signed and sealed the calculations for the permit package.

EXCEPTIONS: Activities that qualify for an Exception are listed in Rule 14-86, F.A.C. A permit application to the Department is NOT required. However, if you desire verification whether the work qualifies for an exception, send a completed copy of this permit package with its requested information to the applicable FDOT District Office.

Approved
 2020-D-191-00002
 Donna Carver
 8/5/2020

PART 1 – Permit Information Sheet

Select one: Permit Exception

Pursuant to 14-86.002(2), F.A.C. "Applicant means the owner of the adjacent property or the owner's authorized representative."

Applicant

Select one: Property Owner Owner's Representative (Complete Part 4)

Name: ROBERT CONERLY

Title and Company: Senior Project Manager, KIMLEY-HORN

Address: 116 South Kentucky Avenue

City: Lakeland State: Florida Zip: 33801

Telephone: (863) 226-6857 ext. _____ FAX: _____ Email: bo.conerly@kimley-horn.com

Property Owner (If not applicant)

Name: Terry Atchley

Title and Company: City Manager, City of Wauchula

Address: 126 South 7th Avenue

City: Wauchula State: Florida Zip: 33873

Telephone: (863) 773-3535 ext. _____ FAX: _____ Email: tatchley@cityofwauchula.com

Applicant's Licensed Professional

Name: Robert Conerly Florida License Number: 59291

Title and Company: Senior Project Manager, Kimley-Horn and Associates, Inc.

Address: 200 South Tryon Street, Suite 200

City: Charlotte State: North Carolina Zip: 28202

Telephone: (980) 495-3310 ext. _____ FAX: _____ Email: bo.conerly@kimley-horn.com

Project Information:

Project Name: SR 35/City of Wauchula/Townsend Street

Location: SR 35

STREET SR. NO. US HWY NO. CITY

Hardee 010

COUNTY SECTION(S) TOWNSHIP(S) RANGE(S)

*Geographic Coordinates: Latitude (DMS.SSS): 27.5544102104839 Longitude (DMS.SSS): -81.8129146740607

Horizontal Datum: (NAD 83 / _____ Adj.)

* State Plane Coordinates: Northing 0 Easting: 0

Projection Zone: Florida North Florida East Florida West

Coordinate shall be the center of the driveway intersection with FDOT R/W, or, if there is no driveway connection, near the center of the property line nearest the state highway.

*Check with the FDOT Office for requirement.

Approved
2020-D-191-00002
Donna Carver
8/5/2020

Brief description of facility and proposed connection:

The project consists of drainage improvements to the Townsend Street corridor as well as pedestrian and minor roadway improvements. The drainage improvements also include increased capacity to the stormwater system serving the intersection of U.S. 17/S.R. 35 at the Townsend Street intersection to reduce excessive flooding. The proposed additional storm pipes will discharge to a stormwater attenuation facility (wet detention pond) at the intersection of Townsend Street and Heard Bridge Road.

Briefly describe why this activity requires a Drainage Connection Permit (Include where the stormwater will discharge to FDOT right of way):

Based on a pre-application meeting with FDOT on April 24, 2019, it was determined that the project would require a Drainage Connection Permit due to the proposed drainage improvements within U.S. 17/S.R. 35 R/W.

Approved
2020-D-191-00002
Donna Carver
8/5/2020

PART 2 – Certification by a Licensed Professional

In accordance with Rule 14-86, Florida Administrative Code (F.A.C.), I hereby certify that the following requirements are and/or will be met.

This project has been designed in compliance with all applicable water quality design standards as required by state or federal governmental entity(ies).

14-86.004(3)(f) (F.A.C.): Certification by a Licensed Professional that the complete set of plans and computations complies with one of the following Rules Sections:

14-86.003(2)(a) (F.A.C.), or 14-86.003(2)(b) (F.A.C). (check one)

I further certify that a National Pollutant Discharge Elimination System (NPDES) permit for stormwater discharges associated with industrial activity from construction sites

is required is not required. (check one)

I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment.

This certification shall remain valid for any subsequent revision or submittal of plans, computation or other project documents by me.

Name of Licensed Professional: Robert B. Conerly, P.E.

Florida License Number: 59291

Company Name (if applicable): Kimley-Horn and Associates, Inc.

Certificate of Authorization Number (if applicable): 00000696

Address: 200 North Tryon Street, Suite 200

City: Charlotte State: NC Zip: 28202

Telephone: 980-495-3310 Fax: _____ Email: bo.conerly@kimley-horn.com

This item has been digitally signed and sealed by Robert B. Conerly, P.E. on the date adjacent to the seal.
Printed copied of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Signature of Licensed Professional

Date

(Affix Seal)

Approved
2020-D-191-00002
Donna Carver
8/5/2020

PART 3 – Certification by Applicant

I hereby certify that the information in this submittal is complete and accurate to the best of my knowledge.

Applicant's Signature: Terry Atchley Date: 01.23.2020
Name (Printed): Terry Atchley
Title and Company: City Manager, City of Wauchula
Address: 126 South Seventh Avenue, Wauchula, FL 33873
Phone Number: 863-773-3535 E-mail address: bo.conerly@kimley-horn.com

PART 4 – Owner's Authorization of a Representative

I (we), the owner, Terry Atchley, do hereby authorize the following person, or entity, as my representative:

Name (Printed): Robert B. Conerly, P.E.
Title and Company: Sr. Project Manager, Kimley-Horn and Associates, Inc.
Address: 200 North Tryon Street, Suite 200, Charlotte, NC 28202
Phone Number: 980-495-3310 E-mail address: bo.conerly@kimley-horn.com

Part 5 – Affidavit of Property Ownership or Control and Statement of Contiguous Interest

I, Terry Atchley, certify that I own or lawfully control the following described property:

Townsend Street R/W from Florida Avenue to SB U.S. 17, Townsend Street R/W from NB U.S. 17 to Heard Bridge Road, Parcel ID Nos. 04-34-25-0310-00002-0001 and 04-34-25-0000-07390-0000

Does the property owner own or have any interests in any adjacent property?

No Yes If yes, please describe.

Adjacent City of Wauchula R/W

Owner's Signature required for Parts 4 and/or 5

We will not begin on the drainage connection until I receive the Permit and I understand all the conditions of the Permit. When work begins on the connection, I am accepting all conditions listed in the Permit.

Name (Printed): Terry Atchley
Address: 126 South Seventh Avenue, Wauchula, FL 33873
Phone Number: 863-773-3535
Signature: Terry Atchley Date: 01.23.2020

Approved
2020-D-191-00002
Donna Carver
8/5/2020

PART 6 – Permit General Conditions

1. This permit is a license for permissive use only and does not convey any property rights either in real estate or material, or any exclusive privilege and it does not authorize any injury to private property or invasion of private rights, or any infringement of Federal, State or local laws, rules or regulations; nor does it obviate the necessity of obtaining any required state or local approvals.
2. The drainage connection as authorized herein shall be constructed and thereafter maintained in accordance with the documents attached hereto and incorporated by reference herein. All work performed in the Department's right of way shall be done in accordance with the most current Department standards, specifications and the permit provisions. Such construction shall be subject to the inspection and approval of the Department, and the Department may at any time make such inspections as it deems necessary to assure that the drainage connection is in compliance with this permit.
3. The entire expense of construction within the Department right of way, including replacement of existing pavement or other existing features, shall be borne by the permittee.
4. The permittee shall maintain that portion of the drainage connection authorized herein located on permittee's property in good condition. The Department shall maintain that portion of the drainage connection authorized herein located within its right of way.
5. If the drainage connection is not constructed, operated or maintained in accordance with this permit, the permit may be suspended or revoked. In this event modification or removal of any portion of the drainage connection from the Department's right of way shall be at the permittee's expense.
6. The Department reserves the right to modify or remove the drainage connection to prevent damage or in conjunction with road improvements.
7. It is understood and agreed that the rights and privileges herein set out are granted only to the extent of the Department's right, title, and interest in the land to be entered upon and used by the permittee, and the permittee will, at all times, assume all risk of and indemnify, defend and save harmless the Department from and against any and all loss, damage, cost or expense arising in any manner on account of the exercise or attempted exercises by said permittee of these rights and privileges, regardless of the respective degrees of fault of the parties.
8. Utilities, including gas lines, may exist within the right of way. Prior to beginning work the permittee shall contact Sunshine State One Call of Florida, Inc at 811 or 800-432-4770, who will notify all utility owners near the scheduled project. The utility owners have two (2) full business days to provide locations of their respective facilities. The permittee shall be solely responsible for any damage to or conflicts with gas lines, utilities and/or third persons.
9. The permittee shall notify the Department of Transportation Maintenance Office located at Heartland Operations - Arcadia Donna Carver Phone (863) 491-1806 ext. _____ 48 hours in advance of starting any work on the drainage connection authorized by this permit and also 24 hours prior to any work within the Department's right of way. Construction of any work on the right of way shall be completed within 180 days after such notification. If such construction is not completed within 180 days after such notification, the permittee shall notify the Department of the anticipated completion date.
10. This permit shall expire if construction on the drainage connection is not begun within one year from the date of approval and if construction on the drainage connection is not completed by (Date) 8/5/2021.
11. A permittee may request an extension of the Drainage Connection Permit expiration date by filing a written request for a permit time extension. All requests for time extensions must be received by the Department 15 working days prior to the expiration date.
12. All the provisions of this permit shall be binding on any assignee or successor in interest of the permittee.

Approved
2020-D-191-00002
Donna Carver
8/5/2020

PART 7 – Permit Special Conditions – To be completed by FDOT

The above request has been reviewed and has been found to meet the regulations as prescribed in Rule 14-86, F.A.C., and is hereby approved, subject to the following special conditions:

See Special Provisions Document

Department of Transportation:

Signature Donna Carver

Title PERMITS COORDINATOR I Date 8/5/2020

Approved
2020-D-191-00002
Donna Carver
8/5/2020

PART 8 – As-Built Certification

Within 15 working days of completion of construction, you must send this certification to the Department office in which you filed your DOT Drainage Permit.

1. STORM WATER FACILITY INFORMATION

Permit No.: _____

Source (Project) Name: _____

Source Location: Street _____

City: _____ County: _____

Source Owner: _____

Owner Address: _____

2. AS-BUILT CERTIFICATION

I hereby certify that this storm water facility has been built substantially in accordance with the certified design plans, and that any substantial deviations (noted below) will not prevent the facility from functioning in compliance with the requirements of Chapter 14-86 F.A.C. when properly maintained and operated. These determinations have been based upon on-site observation of construction, scheduled and conducted by me or by a project representative under my direct supervision.

Name of Licensed Professional: _____

Florida License Number: _____

Company Name (if applicable): _____

Certificate of Authorization Number (if applicable): _____

Address: _____

City: _____ State: _____ Zip: _____

Telephone: _____ Fax: _____ Email: _____

Signature of Licensed Professional

Date

(Affix Seal)

Substantial deviations from the approved plans and specifications (attach additional sheets if required).

Approved
2020-D-191-00002
Donna Carver
8/5/2020

ADDITIONAL WORK LOCATIONS:

Street / State Road ID / US Hwy Number: SR 35
City:
County: Hardee
Sections: 010
Township(s):
Range(s):
Latitude: 27.5534185162181 Longitude: -81.8119625623004
Horizontal Datum:
State Plane Coordinate: Northing: 0
State Plane Coordinate: Easting: 0
Projection Zone:
Is on Turnpike: No

Approved
2020-D-191-00002
Donna Carver
8/5/2020

Special Conditions for Permits

Utility Permits

FDOT office must be notified 48 hours in advance of starting work at (863) 491-1806 (Donna Carver), (863) 491-1803 (Robert Allen) or (863) 491-1807 (Doug Jenkins).

Verification # _____.

All restoration must be completed in accordance with the policies and time frame specified in the UAM and the standard specifications for road and bridge construction. All disturbed areas of the right of way are to be sodded.

Permit and permitted plans shall be on site at all times.

MOT must adhere to the current 600 series as it pertains to the job site.

Notification of work is to comply with 2.3.2 of the UAM.

All lane closures must comply with the FDOT District 1 lane closure policy.

Anyone working on the state right of way, must complete Tier 1 Illicit Discharge Detection and Elimination training and provide the FDOT office with a certificate of completion.

<http://wbt.dot.state.fl.us/ois/EnvironmentalManagementOffice/index.html>

Call 811 – Locates required. Remove all locate flags from right of way once project is complete.

Any changes to this approved permit must be approved in advance by the FDOT office.

If any concrete or asphalt is damaged, an FDOT inspector will need to inspect the area before pouring or placing material.

Permittee must schedule jack and bore with the FDOT office (863) 491-1806, (863) 491-1803 or (863) 491-1807 at least 48 hours in advance. A FDOT inspector must be on site prior to start of jack and bore.

Jack and Bore is to be completed in accordance with the current Standard Specification 556 and all welding and welders are to be in compliance with the American Welding Society Structural Welding Code – Steel D1.1. Please provide a copy of all welders' certificates to Donna Carver prior to starting of jack and bore.

Density tests, proctors, LBR's etc., will be required when backfilling the jack and bore pits. Provide signed and sealed testing reports, concrete/asphalt delivery tickets, pipe/material certifications, etc. to Donna Carver.

All locates are to be completed prior to the scheduled bore time, if not, the bore may be rescheduled to another day.

All pipe/conduit is to be traceable per the UAM.

Once project complete, upload completed final certificate of permit with bore logs, as-builts, etc., in OSP to close out permit.

Approved
2020-D-191-00002
Donna Carver
8/5/2020

CONTRACT PLANS COMPONENTS

ROADWAY PLANS

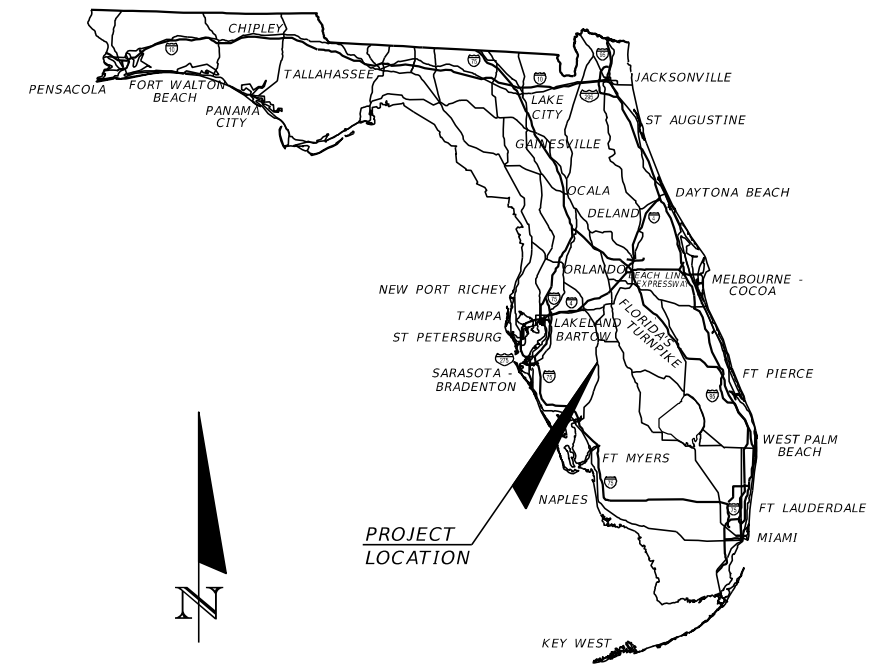
CITY OF WAUCHULA

CONTRACT PLANS

**TOWNSEND STREET PEDESTRIAN,
ROADWAY, AND STORMWATER IMPROVEMENTS
FDOT PERMIT 2020-D-191-00002**

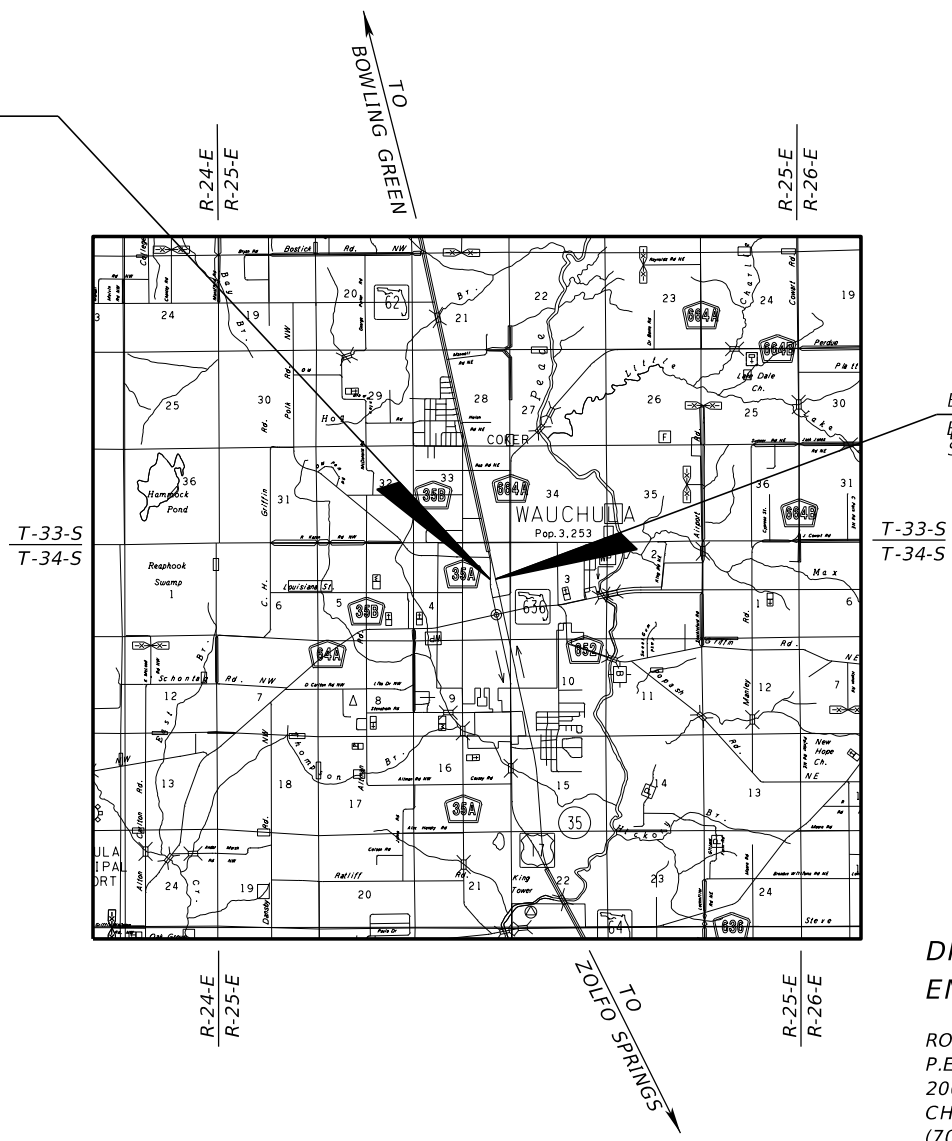
INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SIGNATURE SHEET
3	SUMMARY OF PAY ITEMS
4 - 5	TYPICAL SECTIONS
6 - 7	SUMMARY OF DRAINAGE STRUCTURES
8	PROJECT LAYOUT
9 - 10	DRAINAGE BASIN MAPS
11	GENERAL NOTES
12 - 18	PLAN AND PROFILE SHEETS
19	DRAINAGE STRUCTURES
20 - 39	CROSS SECTIONS
40 - 44	DRIVEWAY HALF SECTIONS
45 - 47	STORMWATER POLLUTION PREVENTION PLANS
48	STORMWATER MANAGEMENT FACILITY PLAN
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54	EROSION CONTROL DETAILS
55	TEMPORARY TRAFFIC CONTROL PLANS
56 - 60	UTILITY ADJUSTMENT SHEETS
61 - 65	SIGNING AND PAVEMENT MARKING SHEETS



BEGIN PROJECT
B CONST.
STA. 10+13.77

END PROJECT
B CONST.
STA. 36+44.00



GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2019-20 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road Construction and associated IRs are available at the following website: <http://www.fdot.gov/design/standardplans>

APPLICABLE IRs: IR536-001-01, IR521-001-01

Standard Plans for Bridge Construction are included in the Structures Plans Component

GOVERNING STANDARD SPECIFICATIONS:

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

**DRAINAGE PLANS
ENGINEER OF RECORD:**

ROBERT CONERLY, P.E.
P.E. NO.: 59291
200 SOUTH TRYON STREET, SUITE 200
CHARLOTTE, NC 28202
(704) 333-5131
CERTIFICATE OF AUTHORIZATION NO.: 696

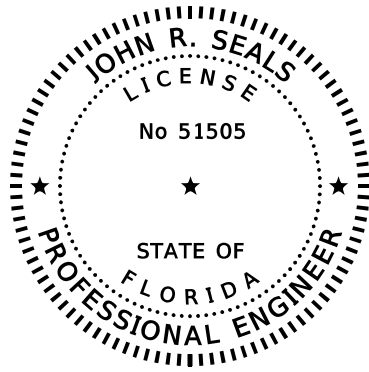
**ROADWAY PLANS
ENGINEER OF RECORD:**

JOHN SEALS, P.E.
P.E. NO.: 51505
655 N FRANKLIN STREET, SUITE 150
TAMPA, FL 34236
(813) 620-1460
CERTIFICATE OF AUTHORIZATION NO.: 696

90% PLANS
JULY 8, 2020

Approved
2020-D-191-00002
Donna Cawley
8/5/2020
SHEET NO. 1

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



THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY

ON THE DATE ADJACENT TO THE SEAL

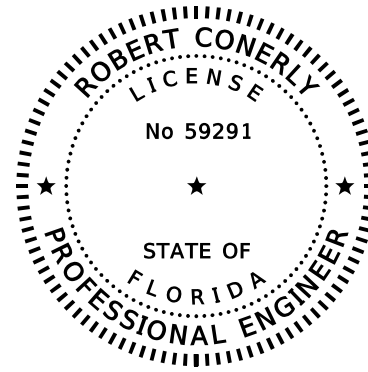
PRINTED COPIES OF THIS DOCUMENT ARE
NOT CONSIDERED SIGNED AND SEALED
AND THE SIGNATURE MUST BE VERIFIED
ON ANY ELECTRONIC COPIES.

KIMLEY-HORN AND ASSOCIATES, INC.
655 N FRANKLIN STREET, SUITE 150
TAMPA, FL 33602
(813) 627-1460
CERTIFICATE OF AUTHORIZATION: 696
JOHN R. SEALS, P.E. NO.: 51505

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE
FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
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2	SIGNATURE SHEET
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KIMLEY-HORN AND ASSOCIATES, INC.
200 SOUTH TRYON STREET, SUITE 200
CHARLOTTE, NC 28202
(704) 333-5131
CERTIFICATE OF AUTHORIZATION NO. 696
ROBERT CONERLY, P.E. NO.:59291

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE
FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

ROADWAY PLANS

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REVISIONS				KIMLEY-HORN AND ASSOCIATES, INC. JOHN SEALS, P.E. P.E. LICENSE NUMBER 51505 655 N FRANKLIN ST, SUITE 150 TAMPA, FL 33602 PHONE (813) 620-1460 CERTIFICATE OF AUTHORIZATION NO. 696	TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS		SHEET NO. 2
DATE	DESCRIPTION	DATE	DESCRIPTION		CITY OF	COUNTY	
					WAUCHULA	HARDEE	

Approved
2020-D-191-0002
Donna Cawley
8/5/2020

SUMMARY OF PAY ITEMS			
ITEM NUMBER	DESCRIPTION	UNIT	QTY.
ROADWAY/DRAINAGE PAY ITEMS			
101-1	MOBILIZATION	LS	1
102-1	MAINTENANCE OF TRAFFIC	LS	1
104-10-3	SEDIMENT BARRIER	LF	3557
104-18	INLET PROTECTION SYSTEM	EA	31
110-1-1	CLEARING AND GRUBBING	AC	4
110-4-10	REMOVAL OF EXISTING CONCRETE	SY	233
120-1	REGULAR EXCAVATION	CY	535
120-6	EMBANKMENT	CY	375
160-4	TYPE B STABILIZATION	SY	828
285-7-05	OPTIONAL BASE GROUP 5	SY	310
327-70-1	MILLING EXIST ASPH PAVT, 1" AVG DEPTH	SY	6093
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	TN	352
400-1-2	CONCRETE CLASS I, ENDWALL	CY	6
425-1-211	INLETS, CURB, TYPE 10, <10'	EA	2
425-1-361	INLETS, CURB, TYPE P-6, <10'	EA	1
425-1-485	INLETS, CURB, TYPE 8, PARTIAL	EA	1
425-1-521	INLETS, DT BOT, TYPE C, <10'	EA	4
425-1-541	INLETS, DT BOT, TYPE D, <10'	EA	9
425-1-543	INLETS, DT BOT, TYPE D, J BOT, <10'	EA	4
425-1-910	INLETS, CLOSED FLUME	EA	4
425- 2-71	MANHOLES, J-7, <10'	EA	5
430-174-218	PIPE CULVERT, OPTIONAL MATERIAL, OTHER SHAPE - ELLIP/ARCH, 18"SD	LF	29
430-175-112	PIPE CULVERT OPTIONAL MATERIAL, ROUND, 12", S/CD	LF	4
430-175-115	PIPE CULVERT OPTIONAL MATERIAL, ROUND, 15", S/CD	LF	12
430-175-118	PIPE CULVERT OPTIONAL MATERIAL, ROUND, 18", S/CD	LF	268
430-175-124	PIPE CULVERT OPTIONAL MATERIAL, ROUND, 24", S/CD	LF	736
430-175-130	PIPE CULVERT OPTIONAL MATERIAL, ROUND, 30", S/CD	LF	342
430-175-136	PIPE CULVERT OPTIONAL MATERIAL, ROUND, 36", S/CD	LF	4
430-175-215	PIPE CULVERT, OPTIONAL MATERIAL, OTHER SHAPE - ELLIP/ARCH, 15"S/CD	LF	189
430-175-218	PIPE CULVERT, OPTIONAL MATERIAL, OTHER SHAPE - ELLIP/ARCH, 18"S/CD	LF	161
430-174-230	PIPE CULVERT, OPTIONAL MATERIAL, OTHER SHAPE - ELLIP/ARCH, 30"S/CD	LF	79
430-185-124	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, JACK & BORE, 24" S/CD	LF	91
430-982-129	MITERED END SECTION, OPTIONAL ROUND, 24" CD	EA	1
430-982-625	MITERED END SECTION, OPTIONAL - ELLIPTICAL / ARCH, 18" CD	EA	2
430-984-625	MITERED END SECTION, OPTIONAL - ELLIPTICAL / ARCH, 18" CD	EA	2
520-1-10	CONCRETE CURB AND GUTTER, TYPE F	LF	2348
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK	SY	667
522-2	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	SY	528
524-1-19	CONC DITCH PAVT, 3", REINFORCED	SY	24
527-2	DETECTABLE WARNING	SF	67
530-3-4	RIPRAP, RUBBLE, F&I DITCH LINING	TN	7.4
571-1-11	PLASTIC EROSION MAT, TRM, TYPE 1	SY	28
SIGNING AND PAVEMENT MARKING PAY ITEMS			
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	AS	1
700-1-50	SINGLE POST SIGN, RELOCATE	AS	1
706-3	RETRO-REFLECTIVE PAVEMENT MARKERS	EA	60
710-11-123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 12"	LF	321
710-11-125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 24"	SF	127
710-11-201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM	1
711-11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12"	LF	321
711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24"	LF	127
711-16-201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	GM	1

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

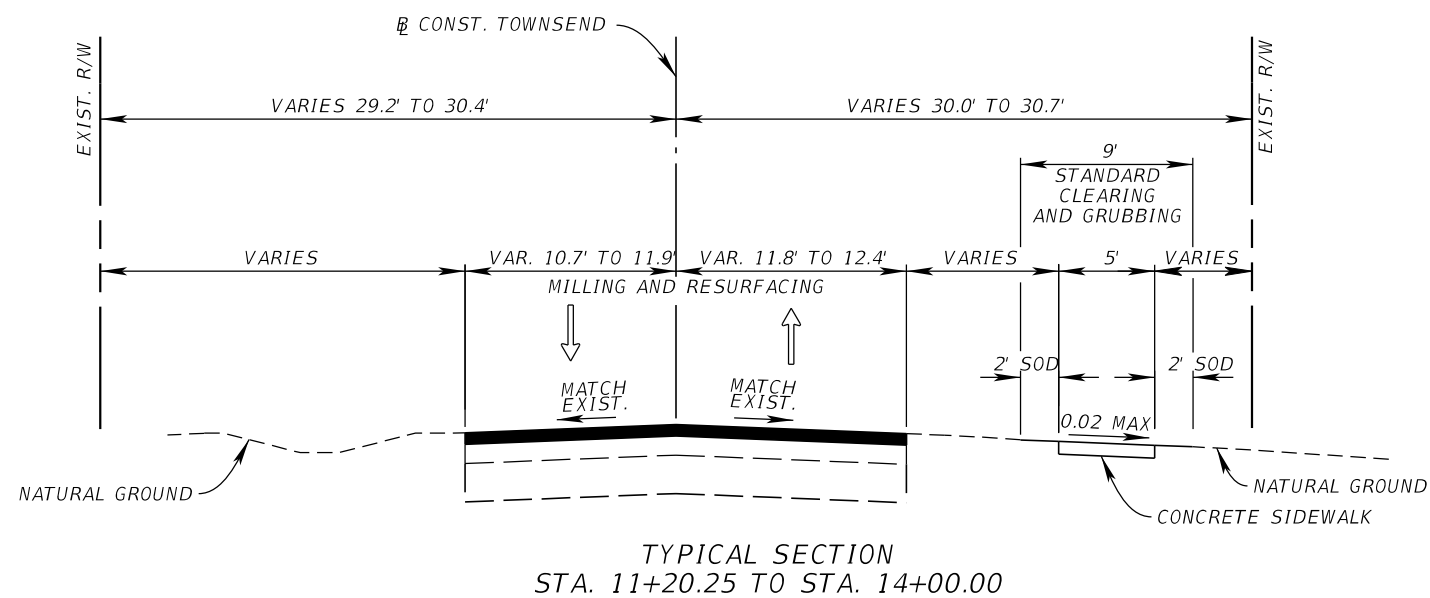
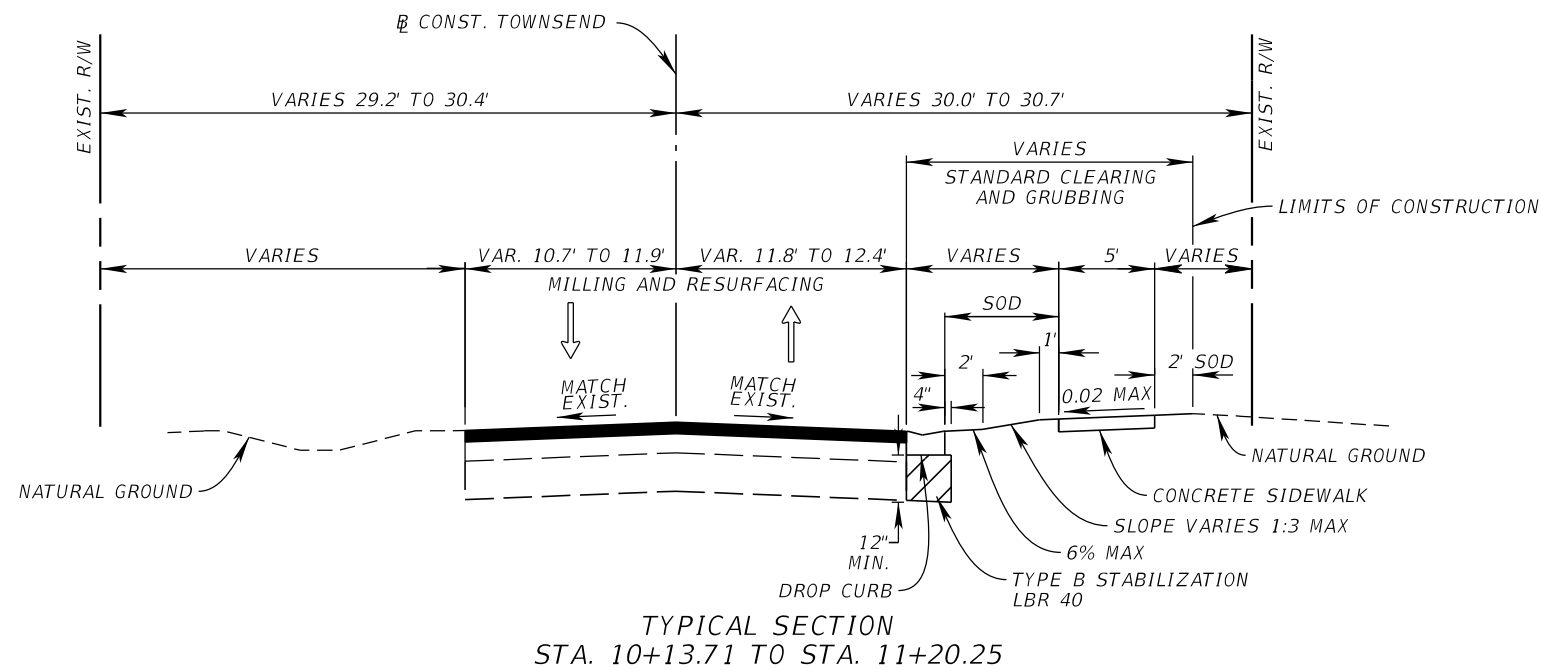
KIMLEY-HORN AND ASSOCIATES, INC.
 JOHN SEALS, P.E.
 P.E. LICENSE NUMBER 51505
 655 N FRANKLIN ST., SUITE 150
 TAMPA, FL 33602
 PHONE (813) 620-1460
 CERTIFICATE OF AUTHORIZATION NO. 696

**TOWNSEND STREET ROADWAY
 AND STORMWATER IMPROVEMENTS**

CITY OF WAUCHULA
 COUNTY HARDEE

Approved
 2020-D-191-0002
 Donna Cawley
 8/5/2020
 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.



MILLING
MILL EXISTING ASPHALT PAVEMENT (1.00" DEPTH)

RESURFACING
STRUCTURAL COURSE, TYPE SP-9.5 (TRAFFIC C) (1.00")

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

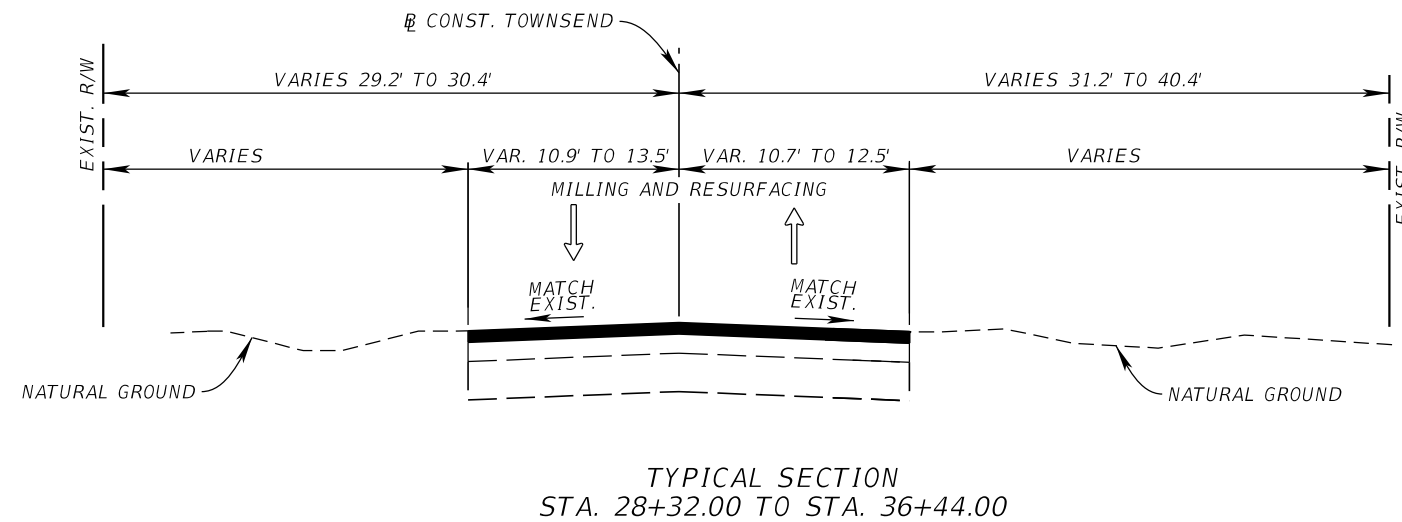
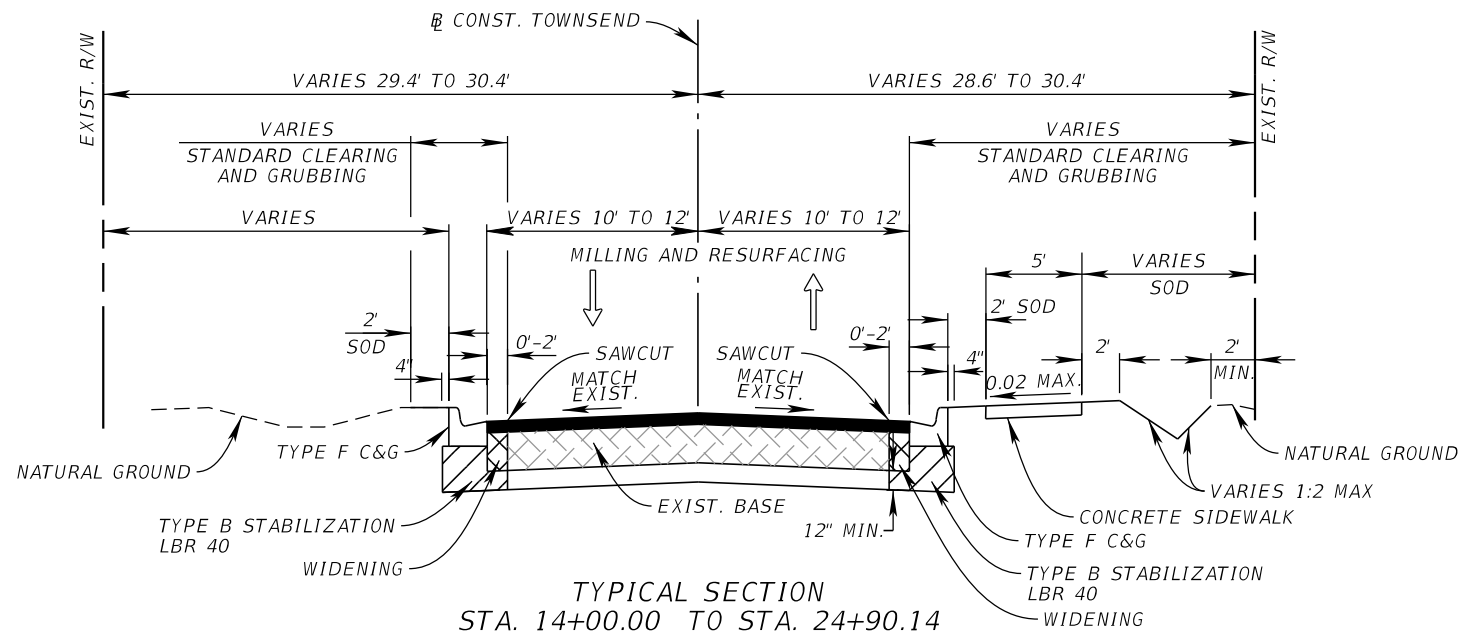
KIMLEY-HORN AND ASSOCIATES, INC.
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**TOWNSEND STREET ROADWAY
AND STORMWATER IMPROVEMENTS**

CITY OF	COUNTY
WAUCHULA	HARDEE

TYPICAL SECTIONS

Approved
2020-D-191-0002
Donna Cawley
8/5/2020
SHEET NO.
4



- MILLING**
MILL EXISTING ASPHALT PAVEMENT (1.00" DEPTH)
- RESURFACING**
STRUCTURAL COURSE, TYPE SP-9.5 (TRAFFIC C) (1.00")
- WIDENING**
OPTIONAL BASE GROUP 5
STRUCTURAL COURSE, TYPE SP-12.5 (TRAFFIC C) (1.50")

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KIMLEY-HORN AND ASSOCIATES, INC.
JOHN SEALS, P.E.
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**TOWNSEND STREET ROADWAY
AND STORMWATER IMPROVEMENTS**

CITY OF	COUNTY
WAUCHULA	HARDEE

TYPICAL SECTIONS

Approved
2020-D-191-0002
Donna Cawley
8/5/2020
SHEET NO. 5

QUANTITY	STR. NO.	STATION	OFFSET	SIDE	DESCRIPTION	BARRELS	STORM PIPE						SD PIPE	CURB INLETS			MANHOLES	DITCH BOTTOM INLETS			CD MES		SD MES	CLOSED FLUME INLET	ENDWALL		REMARKS	
							ROUND			ELLIPTICAL			ELLIPTICAL	P-6	P-8	P-10	J-7	C	D	D	14"X23"	24"	14"X23"	TYPE 1	30"	24"X38"		
							12"	15"	18"	24"	30"	36"	12"X18"	14"X23"	24"X38"	14"X23"	<10'	TOP	<10'	<10'	<10'	<10'	J Bot, < 10'	14"X23"	24"	14"X23"		TYPE 1
P F	S-201	15+85.60	26.48	RT.	DITCH BOTTOM	1						189						1										
P F	S-202	17+60.12	13.5	RT.	CLOSED FLUME	1															1						EROSION CONTROL MATTING (5'X10') CONC. JACKET	
P F	S-203	17+77.03	25.1	RT.	DITCH BOTTOM	1		4										1									CONC. JACKET	
P F	S-204	17+90.58	20.62	RT.	CURB INLET	1								1													CONC. JACKET	
P F	S-205	15+16.53	21.86	RT.	CURB INLET	1	4								1												CONC. JACKET	
P F	S-205A	18+37.58	13.45	RT.	CLOSED FLUME	1															1						EROSION CONTROL MATTING (5'X10')	
P F	S-206	18+86.52	25.67	RT.	DITCH BOTTOM	1			94									1										
P F	S-207	19+83.55	26.7	RT.	DITCH BOTTOM	1			50									1										
P F	S-208	20+35.84	26.45	RT.	DITCH BOTTOM	1						138							1									
P F	S-209	17+91.14	23.17	LT.	CURB INLET (PARTIAL)	1								1													REPLACE TOP	
P F	S-210	19+73.02	23.47	LT.	DITCH BOTTOM	1													1									
P F	S-211	20+13.15	23.66	LT.	DITCH BOTTOM	1				172									1									
P F	S-212	20+29.52	13.5	RT.	CLOSED FLUME	1															1						EROSION CONTROL MATTING (5'X10') J BOTTOM (6' DIA) CIP	
P F	S-301	20+76.21	25.59	RT.	DITCH BOTTOM	1		4																			J BOTTOM (4'X8'), CIP, CONC. JACKET (2)	
P F	S-302	24+47.05	26.03	RT.	DITCH BOTTOM	1			8																		EROSION CONTROL MATTING (5'X10')	
P F	S-304	24+48.04	15.05	RT.	CLOSED FLUME	1															1							
P F	S-306	21+88.40	24.25	LT.	DITCH BOTTOM	1						42							1									
P F	S-307	23+61.62	22.53	LT.	DITCH BOTTOM	1				76																		
SUMMARY:						4	8	152	0	248	0	189	138	79	0	0	1	2	0	4	5	2	0	0	0	4	0	0

DATE		DESCRIPTION		DATE		DESCRIPTION		KIMLEY-HORN AND ASSOCIATES, INC. JOHN SEALS, P.E. P.E. LICENSE NUMBER 51505 655 N FRANKLIN ST, SUITE 150 TAMPA, FL 33602 PHONE (813) 620-1460 CERTIFICATE OF AUTHORIZATION NO. 696	TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS		CITY OF WAUCHULA		COUNTY HARDEE		Approved 2020-D-191-0002 Donna Cawley 8/5/2020		SHEET NO. 6	

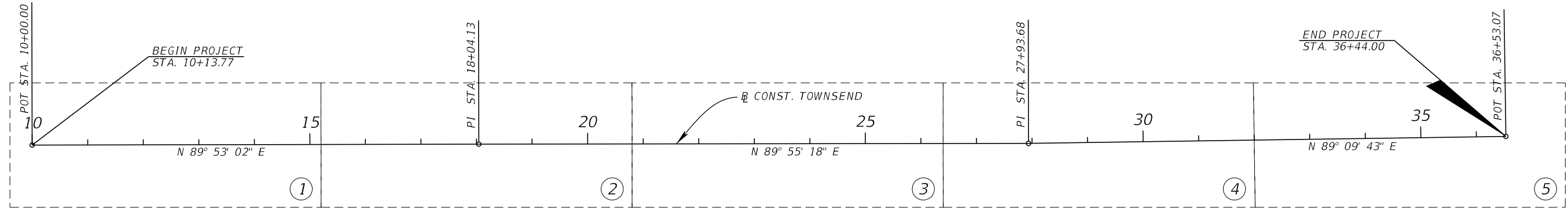
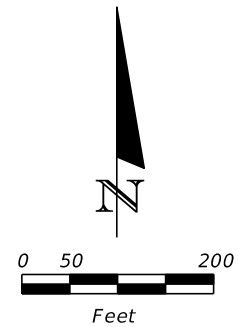
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QUANTITY	STR. NO.	STATION	OFFSET	SIDE	DESCRIPTION	BARRELS	STORM PIPE						SD PIPE	CURB INLETS			MANHOLES	DITCH BOTTOM INLETS			CD MES		SD MES	CLOSED FLUME INLET	ENDWALL		REMARKS		
							ROUND			ELLIPTICAL			ELLIPTICAL	P-6	P-8	P-10	J-7	C	D	D	14"X23"	24"	14"X23"	TYPE 1	30"	24"X38"			
							12"	15"	18"	24"	30"	36"	12"X18"	14"X23"	24"X38"	14"X23"	<10'	TOP	<10'	<10'								<10'	<10'
							12"	15"	18"	24"	30"	36"	12"X18"	14"X23"	24"X38"	14"X23"	<10'	TOP	<10'	<10'	<10'	<10'	J Bot, < 10'	14"X23"	24"	14"X23"		TYPE 1	30"
P F	S-308	24+40.00	24.5	LT.	DITCH BOTTOM	1				32																		CIP	
P F	S-309	25+47.21	29.75	LT.	MANHOLE	1			75	4	4					1												J BOTTOM (5x5') CONC. JACKET (2)	
P F	S-310	26+23.03	26.75	LT.	DITCH BOTTOM	1			12									1											
P F	S-311	22+31.60	24.34	LT.	ENDWALL	1																			1				
P F	S-312	26+25.10	14.05	LT.	CURB INLET	1		4	4				1															P BOTTOM (4'x4') CONC. JACKET (2)	
P F	S-401	27+27.38	47.28	RT.	MANHOLE	1			4	91						1												J BOTTOM (5.0' DIA) CONC. JACKET	
P F	S-402	27+22.95	26.63	RT.	DITCH BOTTOM	1			21											1								J BOTTOM (6.0' DIA) CONC. JACKET	
P F	S-403	28+19.83	27.16	RT.	DITCH BOTTOM	1				170										1								J BOTTOM (6.0' DIA)	
P F	S-404	29+93.58	25.93	RT.	DITCH BOTTOM	1				134									1										
P F	S-409	31+19.72	24.46	RT.	CD MES	1						12								1									
P F	S-410	31+46.85	23.65	RT.	CD MES	1														1									
P F	S-411	33+19.63	25.85	RT.	SD MES	1						29										1							
P F	S-412	33+52.55	27.09	RT.	SD MES	1																1							
P F	S-413	31+33.55	15.76	RT.	MANHOLE	1						11																J BOTTOM (5.0' DIA)	
P F	S-500	31+33.46	24.52	RT.	MANHOLE	1				311																		J BOTTOM (5.0' DIA)	
P F	S-501	34+48.42	15.37	RT.	MANHOLE	1				121																		J BOTTOM (5.0' DIA)	
P F	S-502	35+25.94	114.46	RT.	CD MES	1																1							
P F	S-503	34+85.70	47.63	RT.	ENDWALL	1																			1				
P F	S-505	35+26.58	89.05	RT.	DITCH BOTTOM	1				58												1							
SUMMARY:						0	4	116	827	94	4	0	23	0	29	1	0	0	5	0	4	2	2	1	2	0	1	1	

SHEET TOTALS - PLAN QUANTITY	4	12	268	827	342	4	189	161	79	29	1	1	2	5	4	9	4	2	1	2	4	1	1				0	
SHEET TOTALS - FINAL QUANTITY																												

REVISIONS DATE DESCRIPTION DATE DESCRIPTION				KIMLEY-HORN AND ASSOCIATES, INC. JOHN SEALS, P.E. P.E. LICENSE NUMBER 51505 655 N FRANKLIN ST, SUITE 150 TAMPA, FL 33602 PHONE (813) 620-1460 CERTIFICATE OF AUTHORIZATION NO. 696	TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS CITY OF WAUCHULA COUNTY HARDEE		Approved 2020-D-191-000 Donna Cawley 8/5/2020 SHEET NO. 7

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



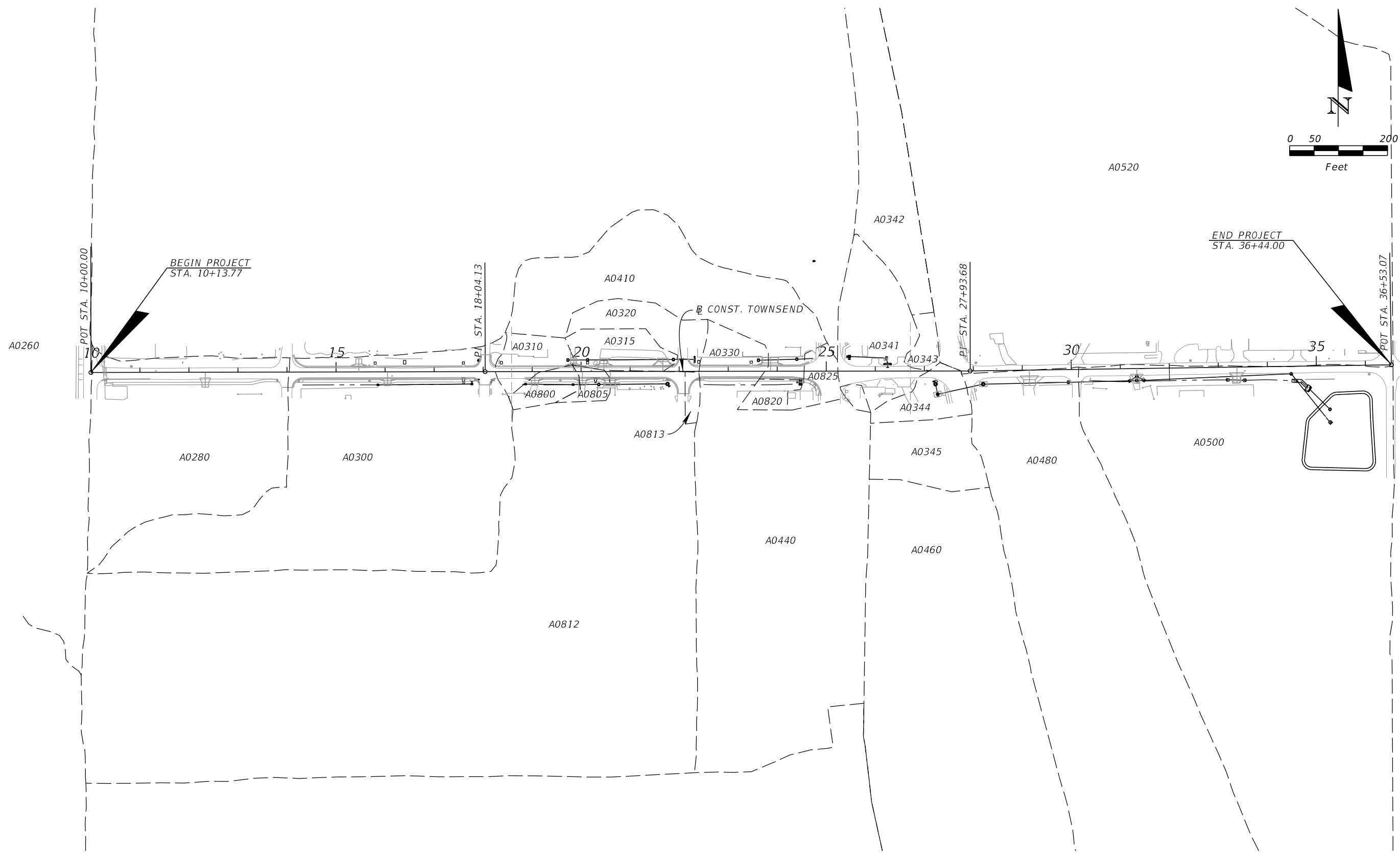
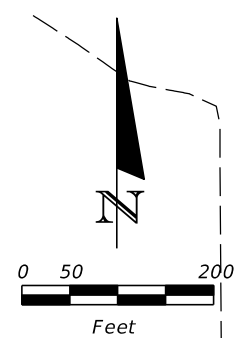
CONTROL TABLE						
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION	STATION	OFFSET
100	1170646.81	715357.27	121.66	CP SIRC	10+83.95	14.51 RT.
101	1170617.23	715843.12	118.89	CP SIRC	15+69.74	16.06 RT.
102	1170618.7	716232.38	114.48	CP SIRC	19+59.02	15.27 RT.
103	1170615.24	716728.59	107.96	CP SIRC	24+55.22	19.42 RT.
104	1170654.23	717080.06	106.37	CP SIRC	28+06.99	18.92 LT.
105	1170658.51	717517.72	93.6	CP SIRC	32+44.68	16.80 LT.
106	1170631.02	717882.49	88.95	CP SIRC	36+09.00	16.03 RT.

LEGEND
 (#) SHEET NUMBER

Approved
 2020-D-191-0002
 Donna Cawley
 8/5/2020
 8

REVISIONS				KIMLEY-HORN AND ASSOCIATES, INC. JOHN SEALS, P.E. P.E. LICENSE NUMBER 51505 655 N FRANKLIN ST, SUITE 150 TAMPA, FL 33602 PHONE (813) 620-1460 CERTIFICATE OF AUTHORIZATION NO. 696	TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS		PROJECT LAYOUT	SHEET NO. 8
DATE	DESCRIPTION	DATE	DESCRIPTION		CITY OF	COUNTY		
					WAUCHULA	HARDEE		

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Approved
 2020-D-191-0002
 Donna Cawley
 8/5/2020

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

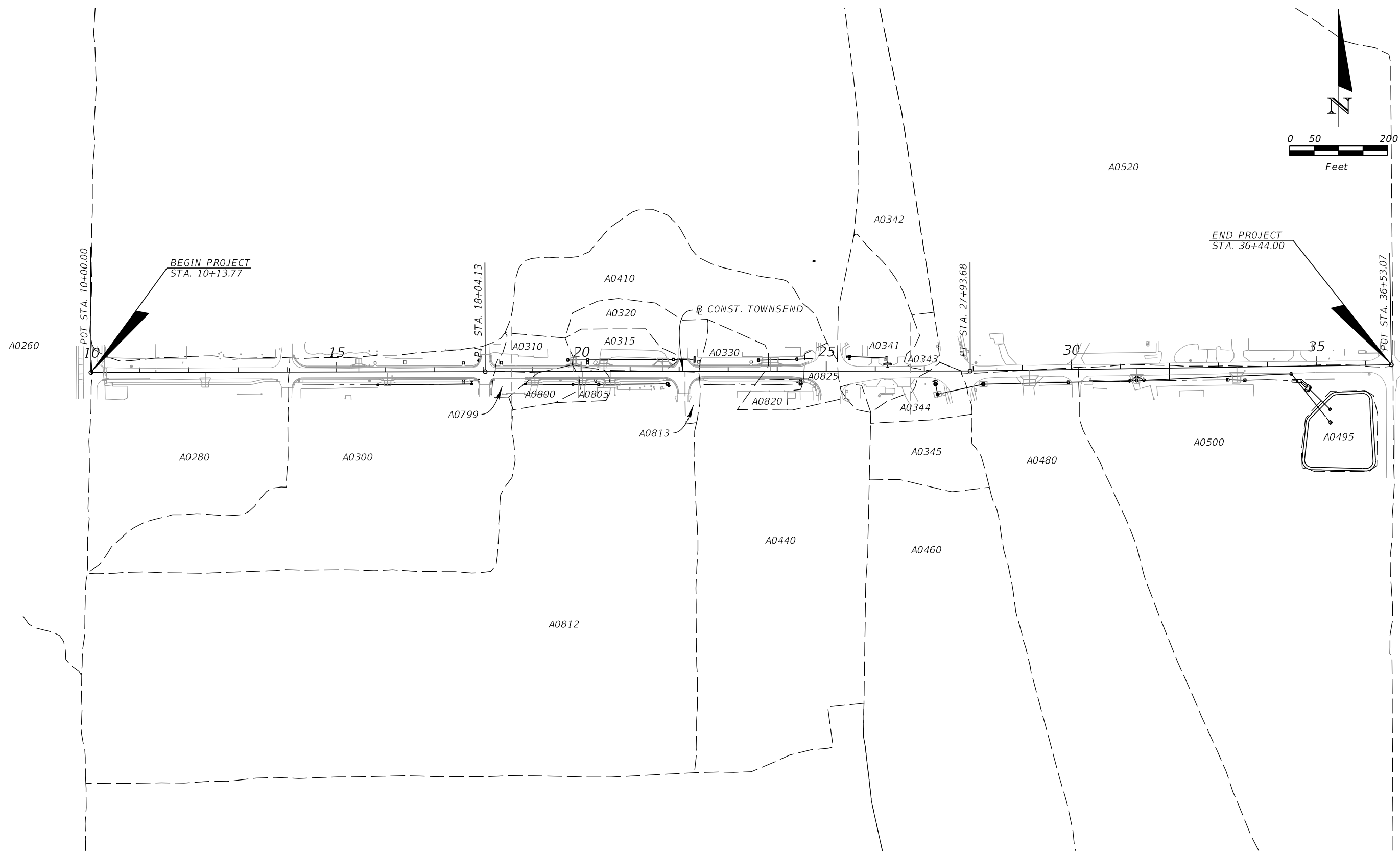
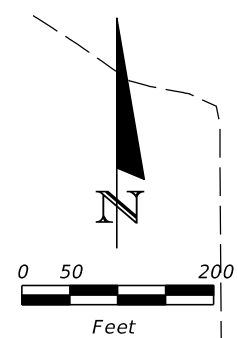
KIMLEY-HORN AND ASSOCIATES, INC.
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**TOWNSEND STREET ROADWAY
 AND STORMWATER IMPROVEMENTS**
 CITY OF WAUCHULA COUNTY HARDEE

EXISTING BASIN MAP

SHEET NO. 9

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Approved
 2020-D-191-0002
 Donna Cawley
 8/5/2020
 SHEET NO. 10

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KIMLEY-HORN AND ASSOCIATES, INC.
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 P.E. LICENSE NUMBER 51505
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**TOWNSEND STREET ROADWAY
 AND STORMWATER IMPROVEMENTS**
 CITY OF WAUCHULA COUNTY HARDEE

PROPOSED BASIN MAP

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GENERAL NOTES

1. THE FOLLOWING NGS VERTICAL CONTROL MONUMENTS WERE RECOVERED AND UTILIZED FOR THE ELEVATIONS INDICATED HEREIN:
DESIGNATION "X 65", NAVD 88 ELEV.=115.99'
DESIGNATION "N 650", NAVD 88 ELEV.=57.73
2. HORIZONTAL CONTROL SET BY REAL TIME KIMEMATIC GPS (RTK GPS) DOUBLE OBSERVATION BASED ON NGS HORIZONTAL CONTROL MONUMENT INDICATED HEREIN:
DESIGNATION "X 65",
NORTHING: 1167935.74 EASTING 715750.99
3. THIS SURVEY IS REFERENCED TO A PROJECTION OF THE FLORIDA STATE PLANE COORDINATE SYSTEM (WEST ZONE NAD 1983/2011 ADJUSTMENT). ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
4. REMOVE ONLY TREES DESIGNATED FOR REMOVAL IN THE PLAN, OR AS DIRECTED BY THE ENGINEER. TREE REMOVAL IS INCLUDED IN THE UNIT PRICE BID FOR CLEARING AND GRUBBING, UNLESS SEPARATE PAY ITEMS ARE PROVIDED.
5. ALL MATERIALS NOT CLAIMED BY THE CITY MUST BECOME THE PROPERTY OF THE CONTRACTOR, AND MUST BE DISPOSED OF BY THE CONTRACTOR IN AREAS PROVIDED BY THE CONTRACTOR. THE COST FOR THIS WORK IS INCLUDED IN THE UNIT PRICE BID FOR CLEARING AND GRUBBING.
6. ALL STATIONS AND OFFSETS REFER TO CONSTRUCTION BASE LINE, UNLESS OTHERWISE NOTED.
7. ALL EXISTING PIPES WITHIN THE RIGHT-OF-WAY CORRIDOR ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED IN THE PLANS.
8. ALL DISTURBED AREAS, INCLUDING AREAS OUTSIDE THE CONSTRUCTION LIMITS, MUST BE RETURNED TO THEIR PRE-CONSTRUCTION CONDITION AT NO ADDITIONAL EXPENSE TO THE CITY. SEEDING MUST NOT BE USED AS FINAL GROUND COVER EXCEPT WHERE SPECIFICALLY SHOWN IN THE PLANS OR DIRECTED BY THE ENGINEER.
9. ALL DISTURBED AREAS IN THE FDOT RIGHT-OF-WAY SHALL BE SODDED.
10. SHEETING, SHORING, AND BRACING MUST BE PROVIDED TO PROTECT ADJACENT STRUCTURES AND UTILITIES, OR TO MINIMIZE TRENCH WIDTH. THE COST OF ALL SHEETING, SHORING, AND BRACING REQUIRED IS INCLUDED IN THE UNIT PRICE BID FOR THE ITEM OF WORK FOR WHICH SHEETING, SHORING, AND BRACING IS REQUIRED, UNLESS OTHERWISE PROVIDED FOR SEPARATELY IN THE BID SUBMITTAL SHEETS.
11. THE ENGINEER MUST RECEIVE PERMISSION FROM THE PROPERTY OWNER THROUGH A RIGHT OF ENTRY AGREEMENT AND/OR A SIDEWALK, UTILITY, OR DRAINAGE EASEMENT PRIOR TO ANY GRADING OR CONSTRUCTION BEYOND THE RIGHT-OF-WAY.

12. ANY AND ALL EXISTING CONDITIONS MUST BE FIELD VERIFIED PRIOR TO COMMENCING CONSTRUCTION. THE ENGINEER MUST BE PROMPTLY NOTIFIED OF ANY DISCREPANCIES.
13. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.
14. SURFACING MUST NOT BE APPLIED TO ANY MANHOLE COVERS, FRAMES, VALVE BOXES, GAS DROPS, ETC.
15. ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS MUST REMAIN UNLESS OTHERWISE NOTED IN THE PLANS, OR AS DIRECTED BY THE ENGINEER. PROPOSED SIGN LOCATIONS SHOWN ON PLANS ARE APPROXIMATE AND MAY REQUIRE FIELD ADJUSTMENT, AS DIRECTED BY THE ENGINEER.
16. BLUE, BI-DIRECTIONAL RPMS MUST BE INSTALLED ADJACENT TO ALL FIRE HYDRANTS, PLACED PER FDOT TRAFFIC ENGINEERING MANUAL, SECTION 4.3 - USE OF BLUE RAISED PAVEMENT MARKERS TO IDENTIFY FIRE HYDRANTS.
17. ABOVE GROUND AND/OR UNDERGROUND UTILITIES MAY BE IN THE AREA OF THIS PROJECT - PROCEED WITH CAUTION - CALL "SUNSHINE 811" IN ADVANCE OF BEGINNING WORK, IN ACCORDANCE WITH CHAPTER 556, FLORIDA STATUTES, UNDERGROUND FACILITY DAMAGE PREVENTION & SAFETY ACT. ALL UTILITY OWNERS MAY NOT BE A MEMBER, REQUIRING DIRECT CONTACT. FURTHER COORDINATION WITH UTILITY OWNERS MAY BE NECESSARY TO RESOLVE CONFLICTS THAT MAY ARISE IN THE FIELD DURING CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY UTILITIES DAMAGED AS A RESULT OF FAILURE TO CALL "SUNSHINE 811" AND THE UTILITY OWNERS.
18. THE RESPONSIBLE UTILITY OWNER MUST BE NOTIFIED FOR RELOCATION OF METER BOXES FOR POTABLE AND NON-POTABLE WATER SERVICE.
19. THE CONTRACTOR IS REQUIRED TO SAWCUT EXISTING PAVEMENT AS NECESSARY TO PROVIDE A UNIFORM CONSTRUCTION JOINT FOR ALL AREAS REQUIRING ASPHALT WORK OR CURB CONSTRUCTION. THE COST OF SAWCUTTING A CLEAN CONSTRUCTION JOINT WILL BE INCIDENTAL TO THE ADJACENT WORK.
20. PRUNE TREE ROOTS AT EDGE OF SW WITH HIGH RPM ROOT PRUNING EQUIPMENT TO ENSURE CLEAN CUT. THE COST OF THIS WORK IS CONSIDERED INCIDENTAL TO THE COST OF THE PROPOSED SIDEWALK.

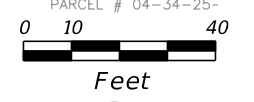
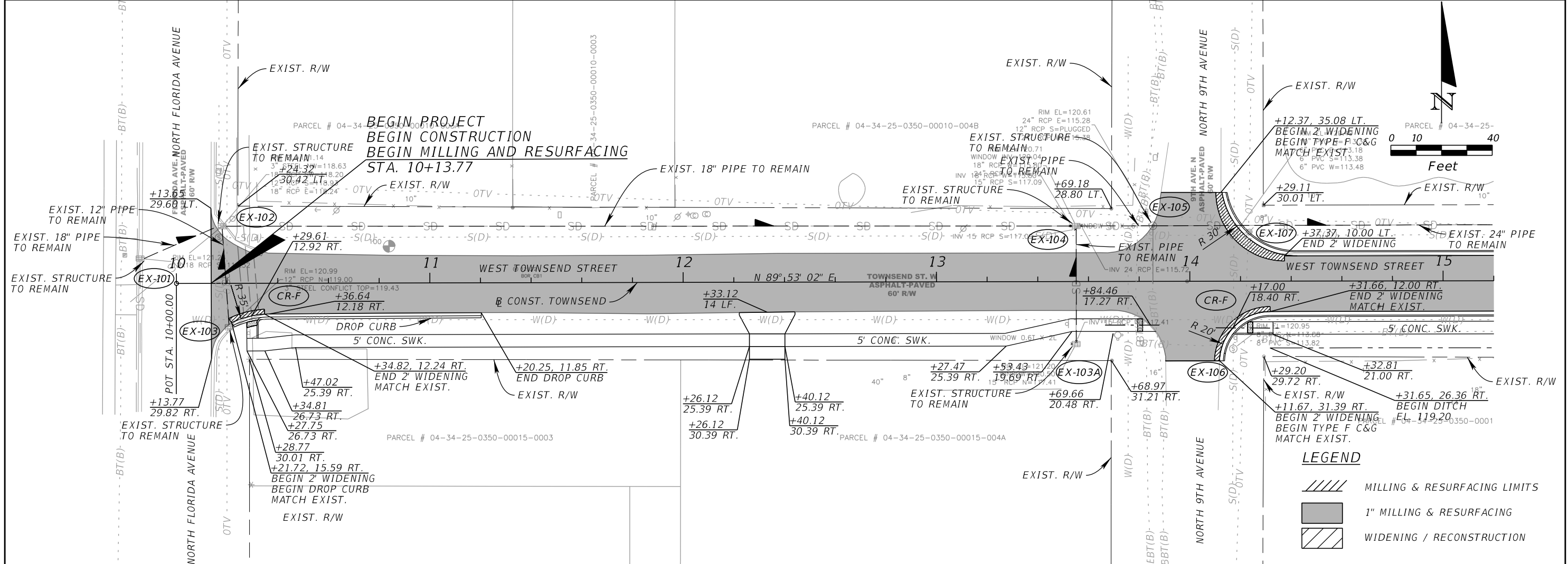
UTILITIES

EXCEPT WHERE THE PLANS AND SPECIFICATIONS PROVIDE THAT SUCH WORK SHALL BE PERFORMED UNDER THE CONTRACT FOR THIS PROJECT, ALL UTILITIES INTERFERING WITH CONSTRUCTION SHALL BE REMOVED, RELOCATED, OR ADJUSTED BY THEIR OWNERS, AT THEIR EXPENSE. THE CONTRACTOR SHALL ARRANGE THEIR SCHEDULE TO ALLOW UTILITY OWNERS TIME FOR THE NECESSARY RELOCATION AND ADJUSTMENT OF UTILITIES AND RELATED STRUCTURES. THE OWNERS HAVING LINES AND FACILITIES ARE INCLUDED BUT NOT LIMITED TO THE FOLLOWING:

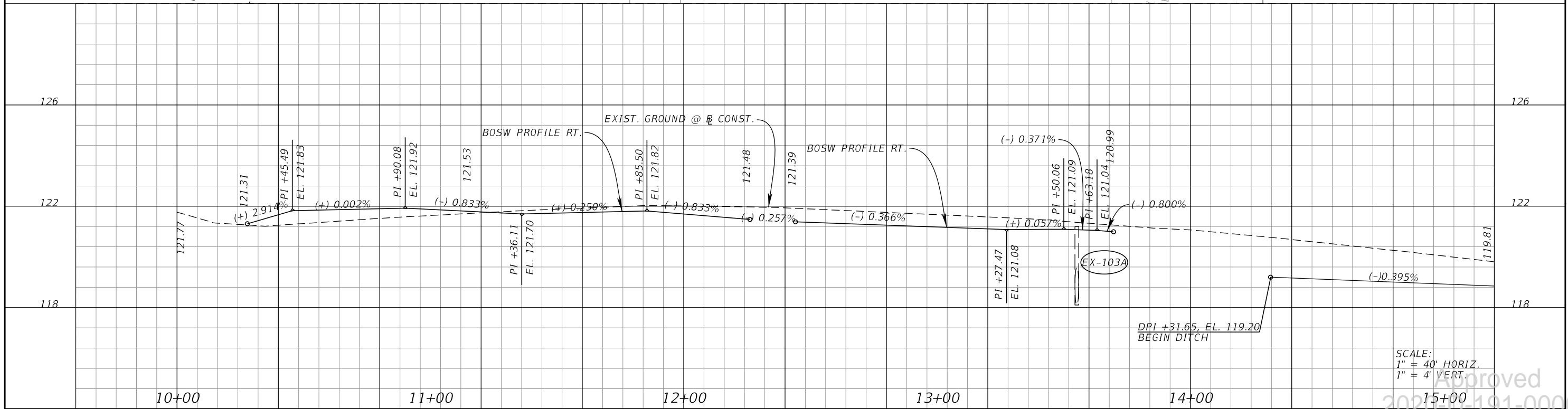
COMPANY	CONTACT	PHONE
COMCAST	GONZALO ROJAS	941-342-3578
CITY OF WAUCHULA	WARD GRIMES	863-781-1976
PEACE RIVER ELECTRIC COOPERATIVE, INC.	CLAY STANPHILL	863-781-0863
SEBRING GAS SYSTEM, INC.	RUSS MELENDY	863-773-4172
CENTURY LINK	KEN LUTZ	877-366-8344

REVISIONS				KIMLEY-HORN AND ASSOCIATES, INC. JOHN SEALS, P.E. P.E. LICENSE NUMBER 51505 655 N FRANKLIN ST., SUITE 150 TAMPA, FL 33602 PHONE (813) 620-1460 CERTIFICATE OF AUTHORIZATION NO. 696	TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS		GENERAL NOTES	SHEET NO 11
DATE	DESCRIPTION	DATE	DESCRIPTION		CITY OF	COUNTY		
					WAUCHULA	HARDEE		

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- LEGEND**
- MILLING & RESURFACING LIMITS
 - 1" MILLING & RESURFACING
 - WIDENING / RECONSTRUCTION



SCALE:
 1" = 40' HORIZ.
 1" = 4' VERT.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS

CITY OF	COUNTY
WAUCHULA	HARDEE





ROADWAY PLAN AND PROFILE (1)

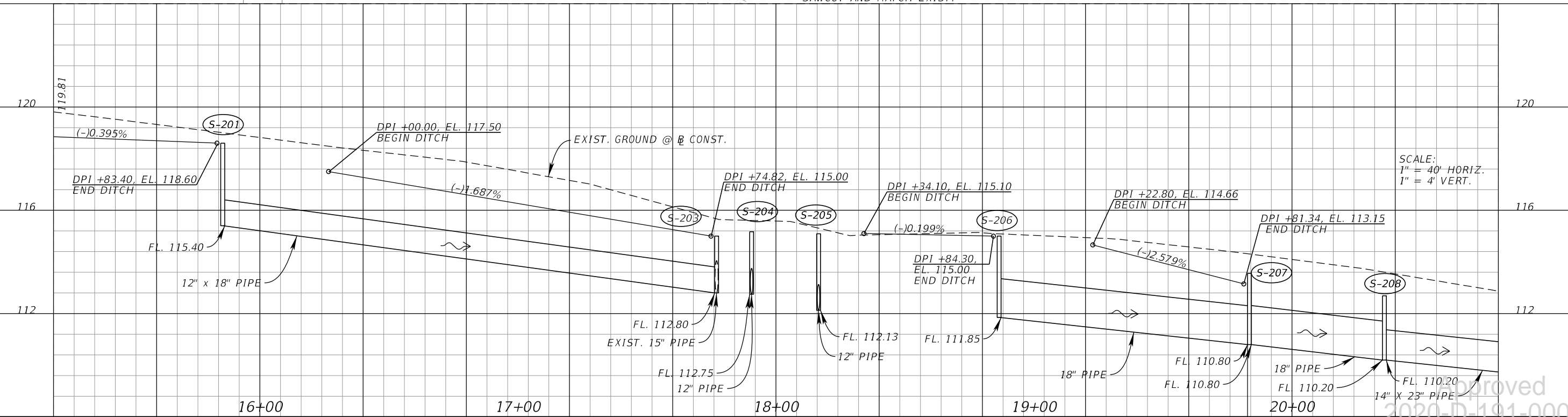
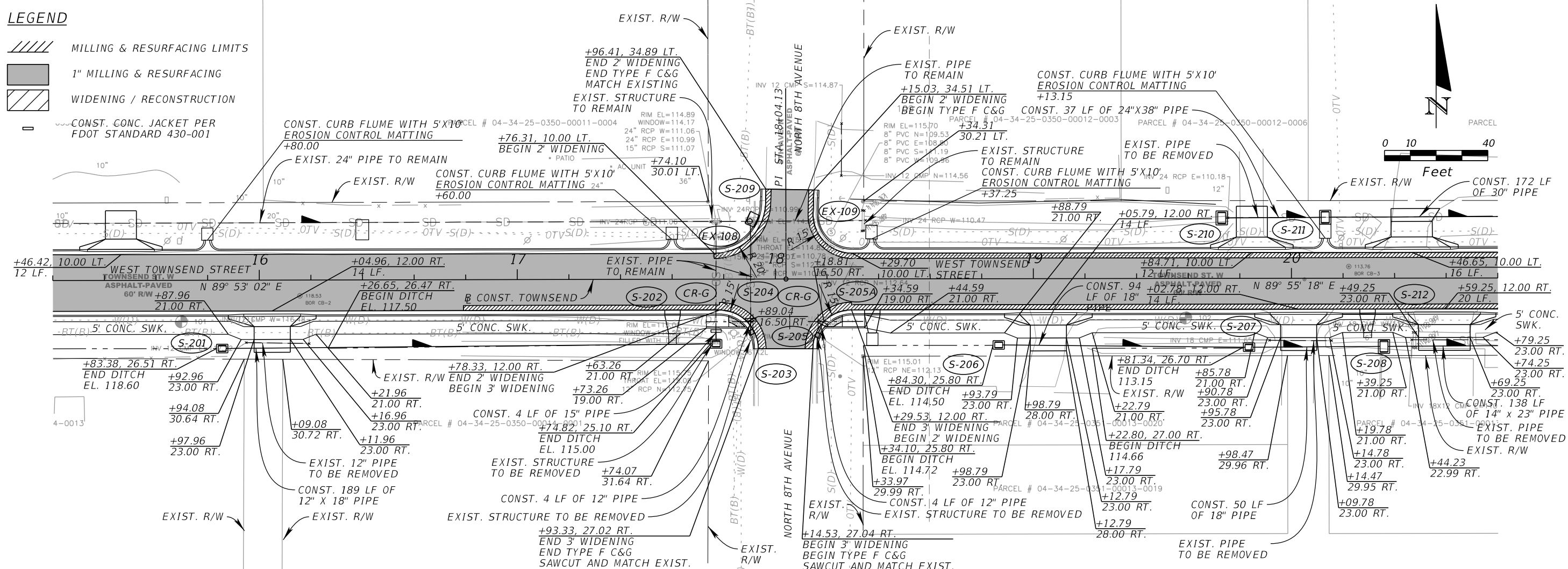
Approved
 2020-05-191-0002
 Donna Cawley
 8/5/2020

SHEET NO. 12

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

LEGEND

-  MILLING & RESURFACING LIMITS
-  1" MILLING & RESURFACING
-  WIDENING / RECONSTRUCTION
-  CONST. CONC. JACKET PER FDOT STANDARD 430-001



SCALE:
1" = 40' HORIZ.
1" = 4' VERT.

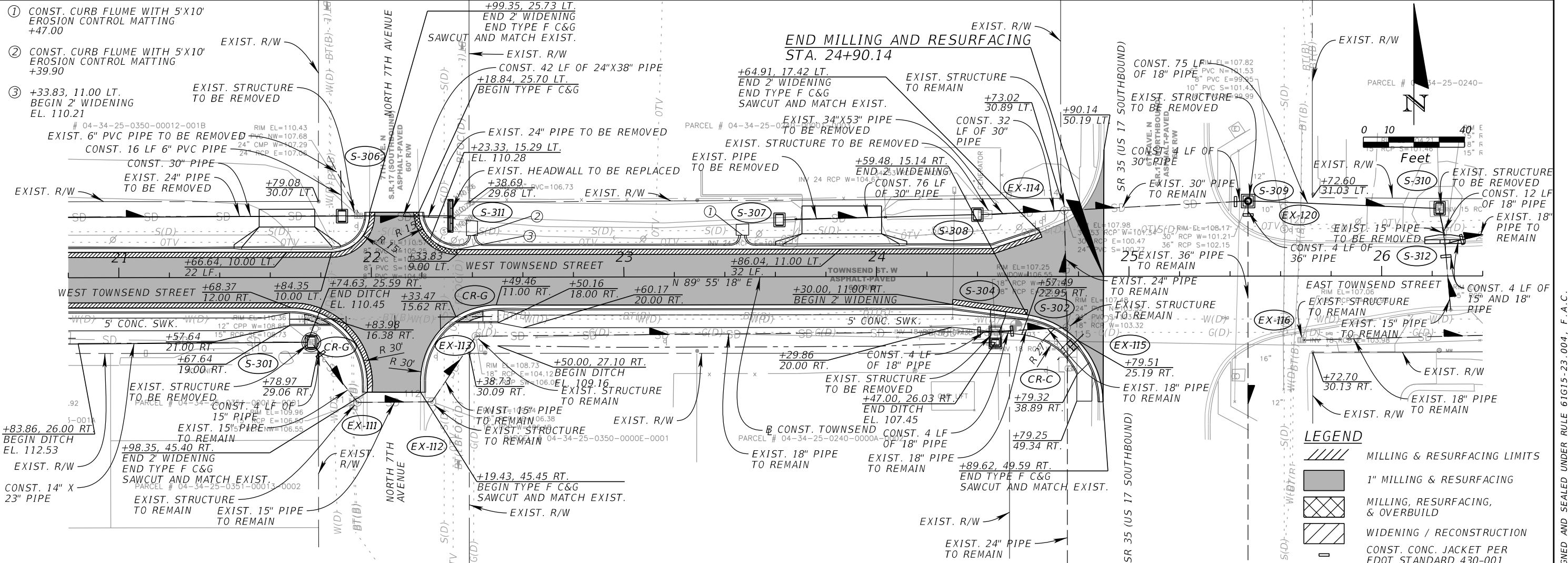
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KIMLEY-HORN AND ASSOCIATES, INC.
JOHN SEALS, P.E.
P.E. LICENSE NUMBER 51505
655 N FRANKLIN ST., SUITE 150
TAMPA, FL 33602
PHONE (813) 620-1460
CERTIFICATE OF AUTHORIZATION NO. 696

TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS
CITY OF WAUCHULA
COUNTY HARDEE

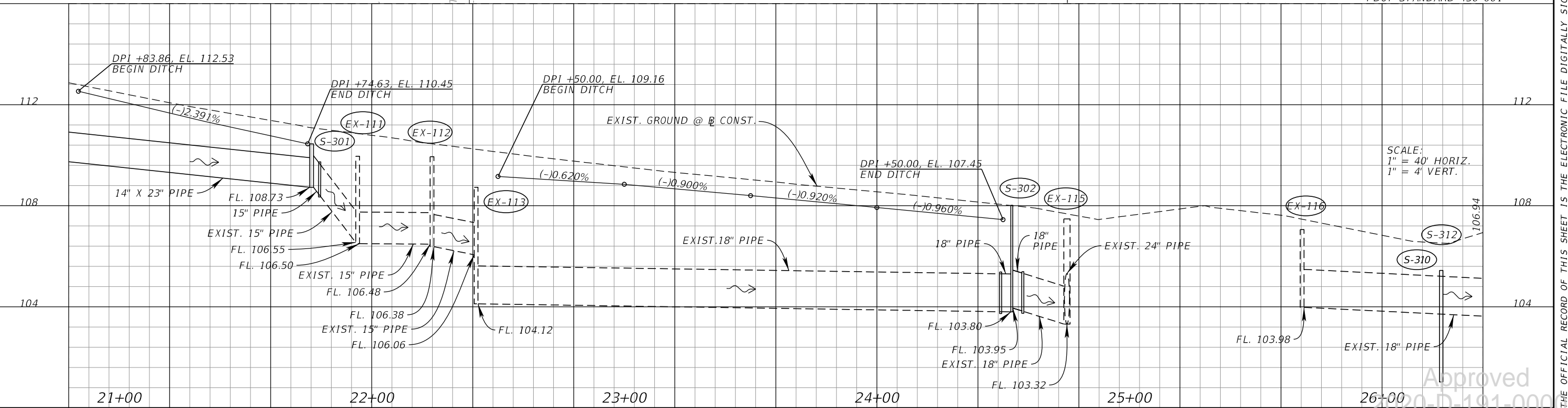
ROADWAY PLAN AND PROFILE (2)
SHEET NO. 13
Approved 2020-D-191-0002
Donna Cawley
8/5/2020

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LEGEND

- MILLING & RESURFACING LIMITS
- 1" MILLING & RESURFACING
- MILLING, RESURFACING, & OVERBUILD
- WIDENING / RECONSTRUCTION
- CONST. CONC. JACKET PER FDOT STANDARD 430-001



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KIMLEY-HORN AND ASSOCIATES, INC.
 JOHN SEALS, P.E.
 P.E. LICENSE NUMBER 51505
 655 N FRANKLIN ST., SUITE 150
 TAMPA, FL 33602
 PHONE (813) 620-1460
 CERTIFICATE OF AUTHORIZATION NO. 696

TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS

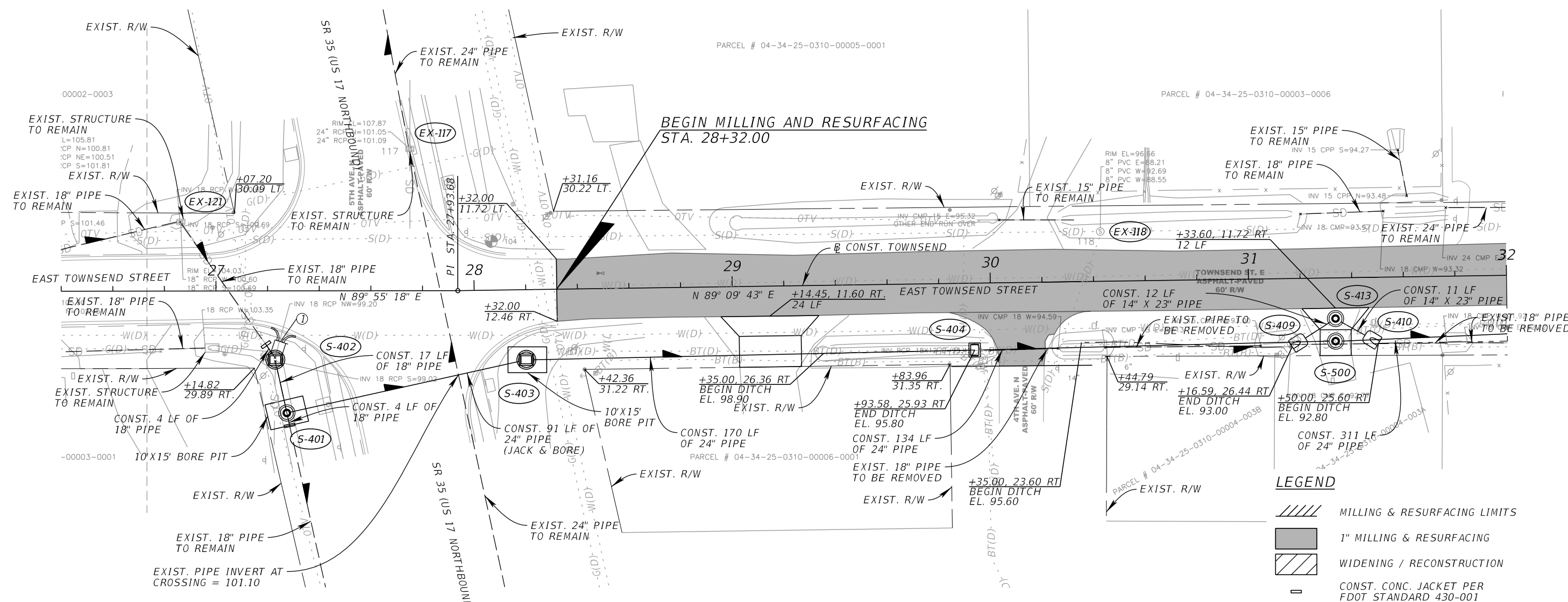
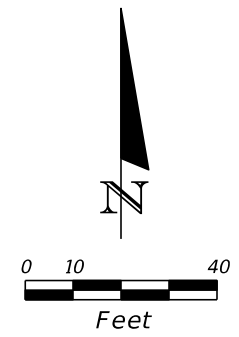
CITY OF	COUNTY
WAUCHULA	HARDEE

ROADWAY PLAN AND PROFILE (5)

Approved
 2020-D-191-00002
 Donna Cawley
 8/5/2020

SHEET NO. 14

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- LEGEND**
- MILLING & RESURFACING LIMITS
 - 1" MILLING & RESURFACING
 - WIDENING / RECONSTRUCTION
 - CONST. CONC. JACKET PER FDOT STANDARD 430-001

① CONST. CURB FLUME WITH 5'X10' EROSION CONTROL MATTING +24.92

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

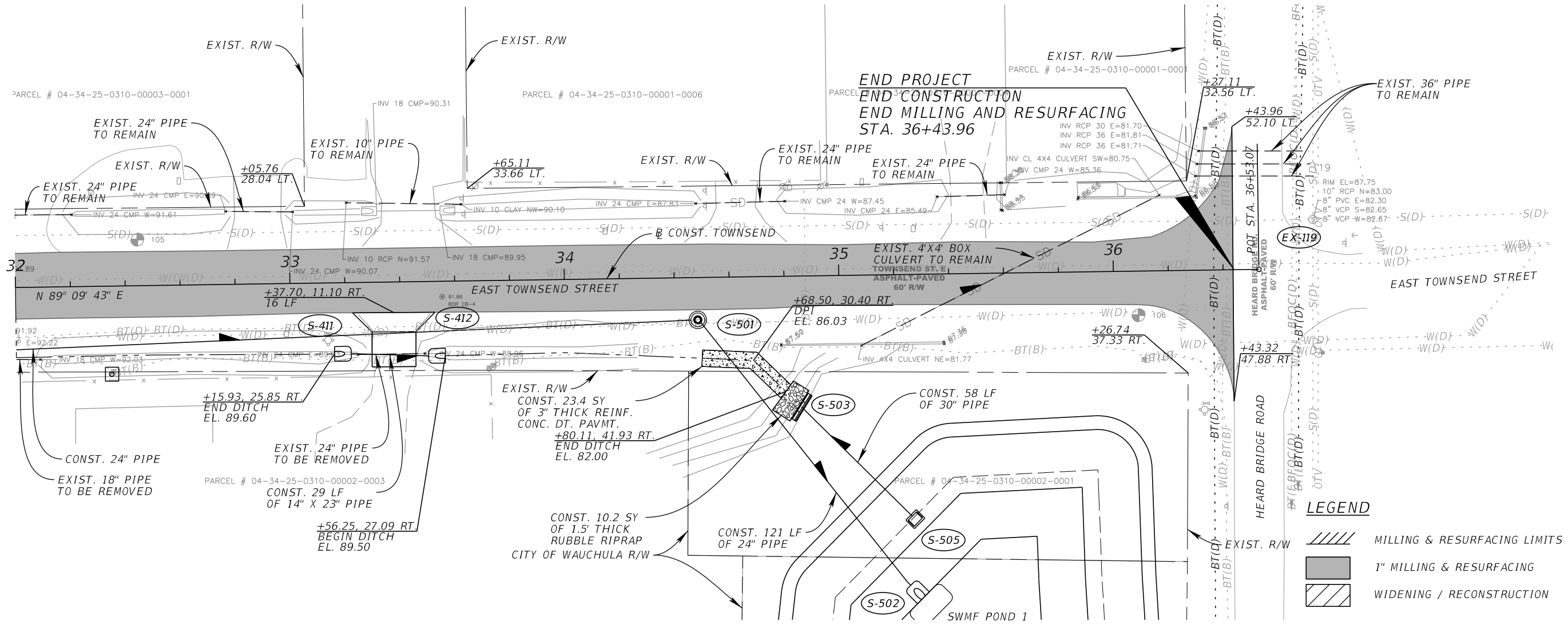
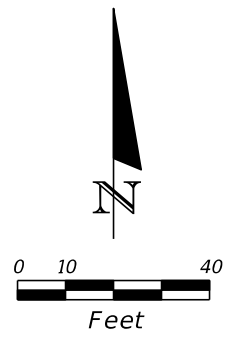
KIMLEY-HORN AND ASSOCIATES, INC.
 JOHN SEALS, P.E.
 P.E. LICENSE NUMBER 51505
 655 N FRANKLIN ST., SUITE 150
 TAMPA, FL 33602
 PHONE (813) 620-1460
 CERTIFICATE OF AUTHORIZATION NO. 696

TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS

CITY OF	COUNTY
WAUCHULA	HARDEE

Approved
 2020-D-191-0002
 Donna Cawley
 ROADWAY PLAN (4A) 8/5/2020
 SHEET NO. 15

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**END PROJECT
END CONSTRUCTION
END MILLING AND RESURFACING
STA. 36+43.96**

LEGEND

	MILLING & RESURFACING LIMITS
	1" MILLING & RESURFACING
	WIDENING / RECONSTRUCTION

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KIMLEY-HORN AND ASSOCIATES, INC.
 JOHN SEALS, P.E.
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 655 N FRANKLIN ST, SUITE 150
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**TOWNSEND STREET ROADWAY
AND STORMWATER IMPROVEMENTS**

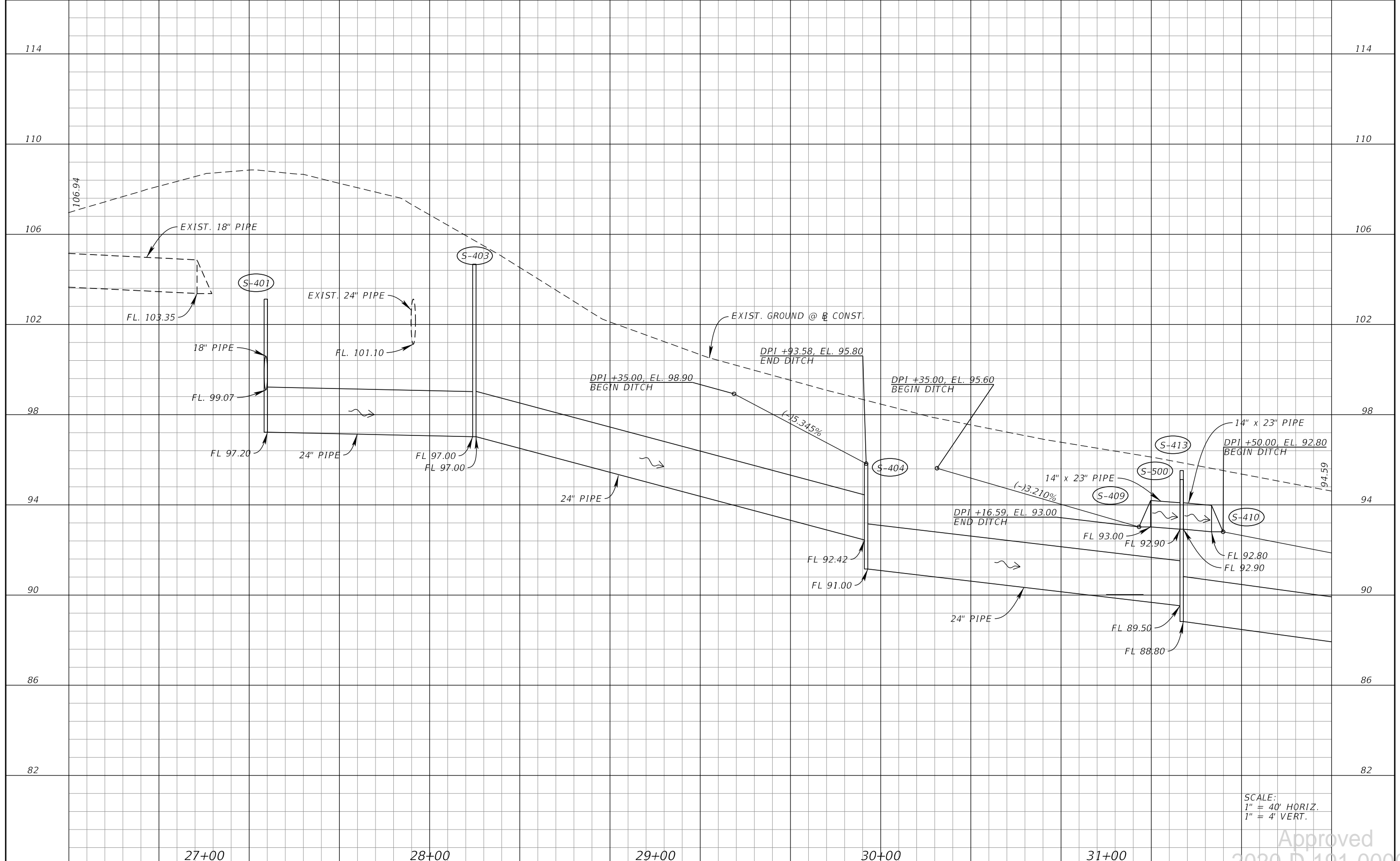
CITY OF	COUNTY
WAUCHULA	HARDEE

ROADWAY PLAN (5A)

Approved
 2020-D-191-0002
 Donna Cawley
 8/5/2020

SHEET NO.
16

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 1" = 4' VERT.

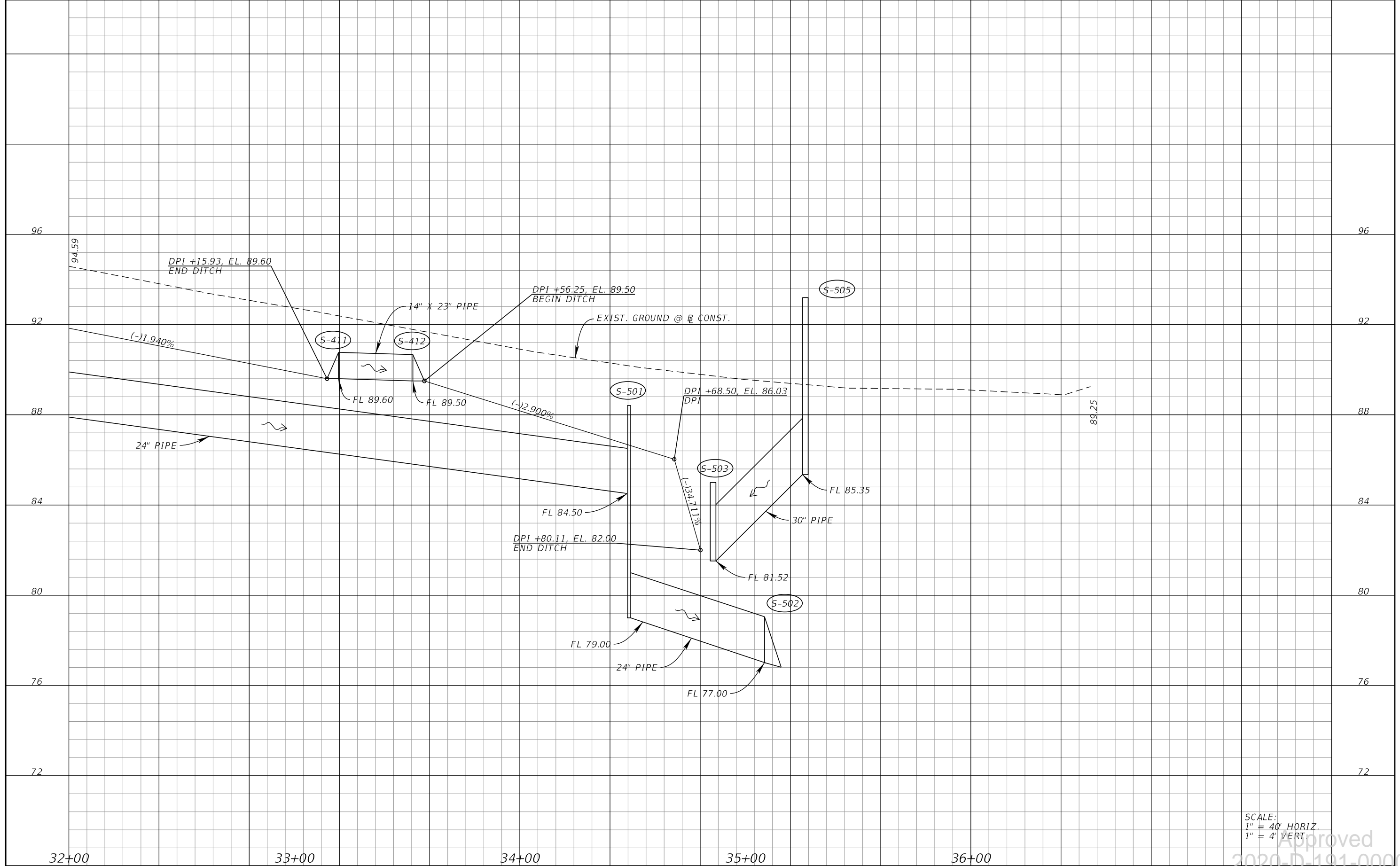
Approved
 2020-D-191-00002
 Donna Cawley
 8/5/2020
 SHEET NO. 17

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KIMLEY-HORN AND ASSOCIATES, INC.
 JOHN SEALS, P.E.
 P.E. LICENSE NUMBER 51505
 655 N FRANKLIN ST, SUITE 150
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 CERTIFICATE OF AUTHORIZATION NO. 696

TOWNSEND STREET ROADWAY
 AND STORMWATER IMPROVEMENTS
 CITY OF WAUCHULA
 COUNTY HARDEE

ROADWAY PROFILE (4B)



SCALE:
 1" = 40' HORIZ.
 1" = 4' VERT.

Approved
 2020-D-191-00002
 Donna Cawley
 8/5/2020
 SHEET NO. 18

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KIMLEY-HORN AND ASSOCIATES, INC.
 JOHN SEALS, P.E.
 P.E. LICENSE NUMBER 51505
 655 N FRANKLIN ST, SUITE 150
 TAMPA, FL 33602
 PHONE (813) 620-1460
 CERTIFICATE OF AUTHORIZATION NO. 696

**TOWNSEND STREET ROADWAY
 AND STORMWATER IMPROVEMENTS**

CITY OF	COUNTY
WAUCHULA	HARDEE

ROADWAY PROFILE (5B)

EXISTING DRAINAGE STRUCTURES

EX-101
STA. 10+00.00, 9.87' LT
RIM EL. = 121.24
12"X18" RCP S INV. = 118.52

EX-102
STA. 10+18.08, 22.53' LT
RIM EL. = 121.14
3" STEEL NW INV. = 118.63
18" RCP SW INV. = 118.20
12" RCP S INV. = 118.93
18" RCP E INV. = 118.24

EX-103
STA. 10+20.79, 17.75' RT
RIM EL. = 120.99
12" RCP N INV. = 119.00
3" STEEL CONFLICT TOP = 119.43

EX-103A
STA. 13+55.07, 24.64' RT
RIM EL. = 121.20
15" RCP N INV. = 117.41

EX-104
STA. 13+55.18, 21.94' LT
RIM EL. = 120.71
WINDOW INV. = 120.04
18" RCP W INV. = 115.80
24" RCP E INV. = 115.72
15" RCP S INV. = 117.09

EX-105
STA. 13+85.51, 21.97' LT
RIM EL. = 120.61
24" RCP E INV. = 115.28
12" RCP S INV. = PLUGGED
24" RCP W INV. = 115.38

EX-106
STA. 14+17.12, 26.66' RT
RIM EL. = 120.95
8" PVC N INV. = 113.88
8" PVC S INV. = 113.82

EX-107
STA. 14+17.44, 18.18' LT
RIM EL. = 120.49
10" PVC N INV. = 113.38
6" PVC N INV. = 113.18
6" PVC N INV. = 113.38
6" PVC N INV. = 113.48

EX-108
STA. 17+77.05, 22.63' LT
RIM EL. = 114.89
WINDOW = 114.17
24" RCP W INV. = 111.06
24" RCP E INV. = 110.99
15" RCP S INV. = 111.07

EX-109
STA. 18+21.60, 18.29' LT
RIM EL. = 115.70
8" RCP N INV. = 109.53
8" RCP N INV. = 108.80
8" RCP N INV. = 111.19
8" RCP N INV. = 109.96

EX-111
STA. 21+94.42, 49.43' RT
RIM EL. = 109.96
15" RCP E INV. = 106.50
15" RCP NW INV. = 106.55

EX-112
STA. 22+23.86, 49.26' RT
RIM EL. = 109.94
15" RCP NE INV. = 106.38
15" RCP W INV. = 106.48

EX-113
STA. 22+41.32, 23.32' RT
RIM EL. = 108.73
18" RCP E INV. = 104.12
15" RCP SW INV. = 106.06

EX-114
STA. 24+74.44, 26.11' LT
RIM EL. = 107.98
34X53 RCP W INV. = 101.34
30" RCP E INV. = 100.47
30" RCP W INV. = 100.80
24" PVC S INV. = 100.77

EX-115
STA. 24+75.27, 20.27' RT
RIM EL. = 107.48
24" PVC N INV. = 103.32
24" PVC S INV. = 103.32
18" PVC W INV. = 103.32

EX-116
STA. 25+68.36, 25.27' RT
RIM EL. = 107.06
18" RCP E INV. = 103.98

EX-117
STA. 27+75.18, 54.96' LT
RIM EL. = 107.87
24" RCP N INV. = 101.05
24" RCP S INV. = 101.09

EX-118
STA. 30+42.89, 19.30' LT
RIM EL. = 96.66
8" PVC E INV. = 88.21
8" PVC W INV. = 92.69
8" PVC W INV. = 88.55

EX-119
STA. 36+53.07, 17.83' LT
RIM EL. = 87.75
10" RCP N INV. = 83.00
8" PVC E INV. = 82.30
8" VPC S INV. = 82.65
8" VCP W INV. = 82.67

EX-120
STA. 25+61.46, 18.65' LT
RIM EL. = 107.82
6" PVC N INV. = 101.53
8" PVC E INV. = 99.95
10" PVC S INV. = 101.43
8" PVC W INV. = 99.99

EX-121
RIM EL. = 104.03
18" PVC W INV. = 100.60
18" RCP S INV. = 100.61

PROPOSED DRAINAGE STRUCTURES

S-201
STA. 15+85.60, 26.48' RT
DBI TYPE C
PER INDEX 425-052, 425-010
GRATE EL. = 118.60
12" X 18" RCP E INV. = 115.40

S-202
STA. 17+60.12, 13.50' RT
CLOSED FLUME INLET, 1 BARREL
WITH EROSION CONTROL MATTING
DEPTH D = 7.00'
PER INDEX 425-061
EOP EL. = 115.85

S-203
STA. 17+77.03, 25.10' RT
DBI TYPE C
PER INDEX 425-052, 425-010
GRATE EL. = 115.50
WINDOW W = 115.0
15" RCP N INV. = 112.94
12" X 18" RCP W INV. = 112.80

S-204
STA. 17+90.58, 20.62' RT
CURB INLET TYPE 10
PER INDEX 425-024, 425-010
EOP EL. = 115.17
12" RCP N INV. = 112.75

S-205
STA. 18+16.53, 21.86' RT
CURB INLET TYPE 10
PER INDEX 425-024, 425-010
EOP EL. = 115.09
12" RCP NE INV. = 112.13

S-205A
STA. 18+37.58, 13.45' RT
CLOSED FLUME INLET, 1 BARREL
WITH EROSION CONTROL MATTING
DEPTH D = 7.00'
PER INDEX 425-061
EOP EL. = 114.88

S-206
STA. 18+86.52, 25.67' RT
DBI TYPE C
PER INDEX 425-052, 425-010
GRATE EL. = 115.00
WINDOW W = 114.50
18" RCP E INV. = 111.85

S-207
STA. 19+83.55, 26.70' RT
DBI TYPE C
PER INDEX 425-052, 425-010
GRATE EL. = 113.56
WINDOW W = 113.30
18" RCP W INV. = 110.80
18" RCP E INV. = 110.80

S-208
STA. 20+35.84, 26.45' RT
DBI TYPE D
PER INDEX 425-052, 425-010
GRATE EL. = 112.69
18" RCP W INV. = 110.20
14" X 23" RCP E INV. = 110.20

S-209
STA. 17+91.14, 23.17' LT
CURB INLET TYPE 8 (PARTIAL)
PER INDEX 425-024
REPLACE TOP

S-210
STA. 19+73.02' LT
DBI TYPE D
PER INDEX 425-052, 425-010
GRATE EL. = 112.90
WINDOW W = 110.25
24" X 38" RCP E INV. = 109.70

S-211
STA. 20+13.15, 23.66' LT
DBI TYPE D
PER INDEX 425-052, 425-010
GRATE EL. = 114.04
24" X 38" RCP W INV. = 109.14
30" RCP E INV. = 109.00

S-212
STA. 20+29.52, 13.50' RT
CLOSED FLUME INLET, 1 BARREL
WITH EROSION CONTROL MATTING
DEPTH D = 7.00'
PER INDEX 425-061
EOP EL. = 113.45

S-301
STA. 20+76.21, 25.59' RT
DBI TYPE D WITH 6" ROUND BOTTOM
(CAST IN PLACE)
PER INDEX 425-052, 425-010
GRATE EL. = 110.45
14" X 23" RCP W INV. = 108.73
15" RCP SE INV. = 108.73

S-302
STA. 24+47.05, 26.03' RT
DBI TYPE D WITH J BOTTOM (4.0' X 8.0')
6" RISER (CAST IN PLACE)
PER INDEX 425-052, 425-010
GRATE EL. 108.05
WINDOW W INV. = 107.45
FL. E 18" 103.95
FL. W 18" 103.80
NOTE: CONTRACTOR TO FIELD LOCATE
PIPES PRIOR TO SUBMISSION OF SHOP
DRAWINGS

S-304
STA. 24+48.04, 15.05' RT
CLOSED FLUME INLET, 1 BARREL
WITH EROSION CONTROL MATTING
DEPTH D = 6.85'
PER INDEX 425-061
EOP EL. = 107.78

S-306
STA. 21+88.40, 24.25' LT
DBI TYPE D
PER INDEX 425-052, 425-010
GRATE EL. = 110.95
30" RCP W INV. = 106.90
24"X38" RCP E INV. = 106.90

S-307
STA. 23+61.62, 22.53' LT
DBI TYPE D
PER INDEX 425-052, 425-010
GRATE EL. = 105.62
30" RCP E INV. = 101.90

S-308
STA. 24+40.00, 24.50' LT
DBI TYPE D (CAST IN PLACE)
PER INDEX 425-052, 425-010
GRATE EL. = 104.10
30" RCP E INV. = 101.0
30" RCP W INV. = 101.0

S-309
STA. 25+47.21, 29.75' LT
MH TYPE J-7 WITH 5'X5.0' BOTTOM
PER INDEX 425-001, 425-010
RIM EL. = 108.13
EX. 30" RCP W INV. = 101.21
EX. 36" RCP S INV. = 102.15
18" RCP E INV. = 101.20

S-310
STA. 22+31.60, 24.34' LT
DBI TYPE D
PER INDEX 425-052, 425-010
GRATE EL. = 104.19
18" RCP W INV. = 101.05
18" RCP S INV. = 101.05

S-311
STA. 22+31.60, 24.34' LT
24" X 38" ENDWALL
PER INDEX 430-030, 425-010
RIM EL. = 110.50
24" X 38" RCP W INV. = 106.73

S-312
STA. 26+25.10, 14.05' LT
CURB INLET TYPE 6 WITH 4.0'X4.0' BOTTOM
PER INDEX 425-021, 425-010
RIM EL. = 106.04
18" RCP N INV. = 101.03
EX. 18" RCP NE INV. = 100.51
EX. 15" RCP S INV. = 101.81

S-401
STA. 27+27.38, 47.28' RT
MH TYPE J-7 WITH 5.0' ROUND BOTTOM
PER INDEX 425-01, 425-010
RIM EL. = 103.10
18" RCP N INV. = 99.07
18" RCP S INV. = 99.07
24" STEEL CASING WITH 0.5" WALL
THICKNESS E INV. = 97.20

S-402
STA. 27+22.95, 26.63' RT
DBI TYPE D WITH 6.0' ROUND BOTTOM
PER INDEX 425-052, 425-010
GRATE EL. = 103.11
18" RCP NW INV. = 99.20
18" RCP S INV. = 99.02

S-403
STA. 28+19.83, 27.16' RT
DBI TYPE D WITH 6.0' ROUND BOTTOM
PER INDEX 425-052, 425-010
GRATE EL. = 104.65
24" STEEL CASING WITH 0.5" WALL
THICKNESS W INV. = 97.00
24" RCP E INV. = 97.00

S-404
STA. 29+93.58, 25.93' RT
DBI TYPE D
PER INDEX 425-052, 425-010
GRATE EL. = 95.80
24" RCP W INV. = 92.42
24" RCP E INV. = 91.00

S-409
STA. 31+19.72, 24.46' RT
14" X 23" CD MES
PER INDEX 430-021
14" X 23" RCP E INV. = 93.00

S-410
STA. 31+46.85, 23.65' RT
14" X 23" CD MES
PER INDEX 430-021
14" X 23" RCP W INV. = 92.80

S-411
STA. 33+19.63, 25.85' RT
14" X 23" SD MES
PER INDEX 430-022
14" X 23" RCP E INV. = 89.60

S-412
STA. 33+52.55, 27.09' RT
14" X 23" SD MES
PER INDEX 430-022
14" X 23" RCP W INV. = 89.50

S-413
STA. 31+33.55, 15.76' RT
MH TYPE J-7 WITH 5.0' ROUND BOTTOM
PER INDEX 425-001, 425-010
RIM EL. = 95.50
14" X 23" RCP SW INV. = 92.90
14" X 23" RCP SE INV. = 92.90

S-500
STA. 31+33.46, 24.52' RT
MH TYPE J-7 WITH 5.0' ROUND BOTTOM
PER INDEX 425-001, 425-010
RIM EL. = 95.10
24" RCP W INV. = 89.50
24" RCP E INV. = 88.80

S-501
STA. 34+48.42, 15.37' RT
MH TYPE J-7 WITH 5.0' ROUND BOTTOM
PER INDEX 425-001, 425-010
RIM EL. = 88.41
24" RCP W INV. = 84.50
24" RCP SE INV. = 79.00

S-502
STA. 35+16.00, 100.39' RT
24" CD MES
PER INDEX 430-021
18" RCP NW INV. = 77.00

S-503
STA. 34+85.70, 47.63' RT
30" ENDWALL
PER INDEX 430-030
TOP EL. = 85.00
30" RCP E INV. = 81.52

S-505
STA. 35+26.58, 89.05' RT
DBI TYPE D
PER INDEX 425-052, 425-010
GRATE EL. = 93.20
1.5' X 0.7' WEIR EL. 92.50
3.0' X 0.5' WEIR EL. 88.50
30" RCP W INV. = 83.35
NOTE: SEE STORMWATER MANAGEMENT
FACILITY PLAN SHEET FOR MORE DETAILS

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

KIMLEY-HORN AND ASSOCIATES, INC.
JOHN SEALS, P.E.
P.E. LICENSE NUMBER 51505
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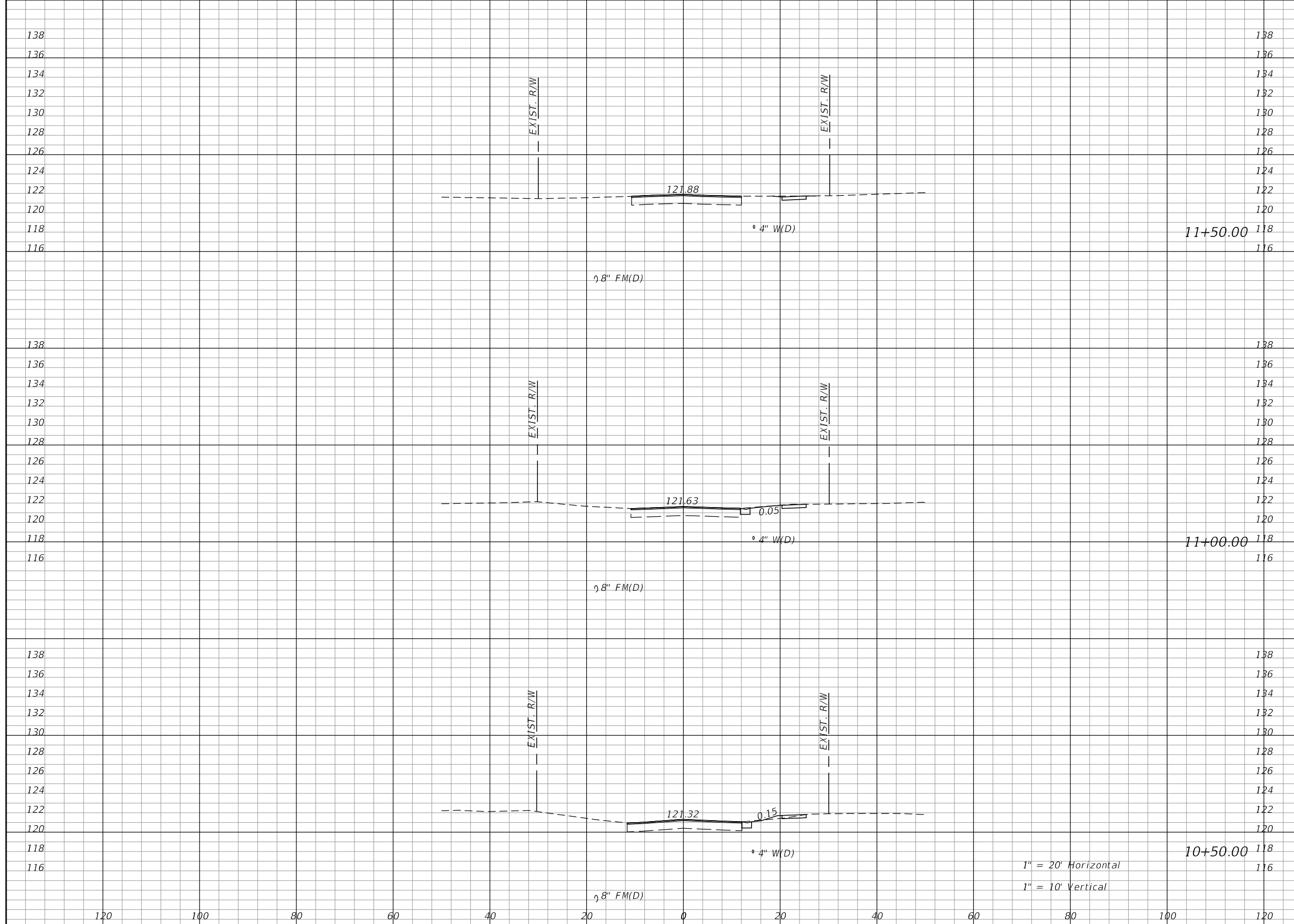
CITY OF	COUNTY
WAUCHULA	HARDEE

EXISTING AND PROPOSED
DRAINAGE STRUCTURES

SHEET NO.
19

Approved
2020-D-191-0002
Danna Cawley
8/5/2020

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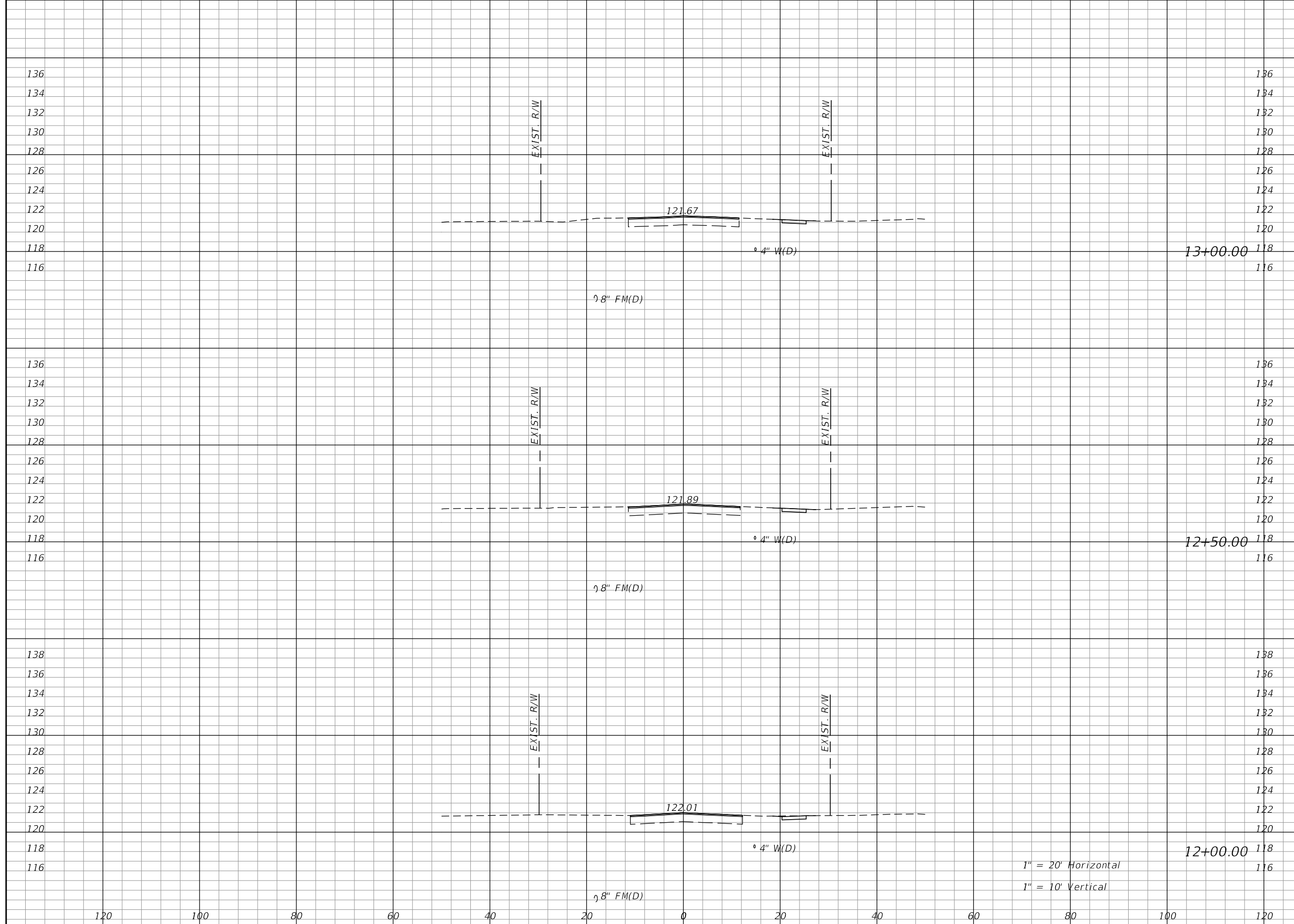
Regular		Exc.		Embankment	
A	V	A	V	A	V
1	2	0	0		
1	1	0	1		
0	0	1	1		

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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**TOWNSEND STREET ROADWAY
 AND STORMWATER IMPROVEMENTS**
 CITY OF WACHULA COUNTY HARDEE

**TOWNSEND STREET
 CROSS SECTIONS**
 SHEET NO. 20
 Approved 2020-D-191-00002
 Donna Cawley
 8/5/2020



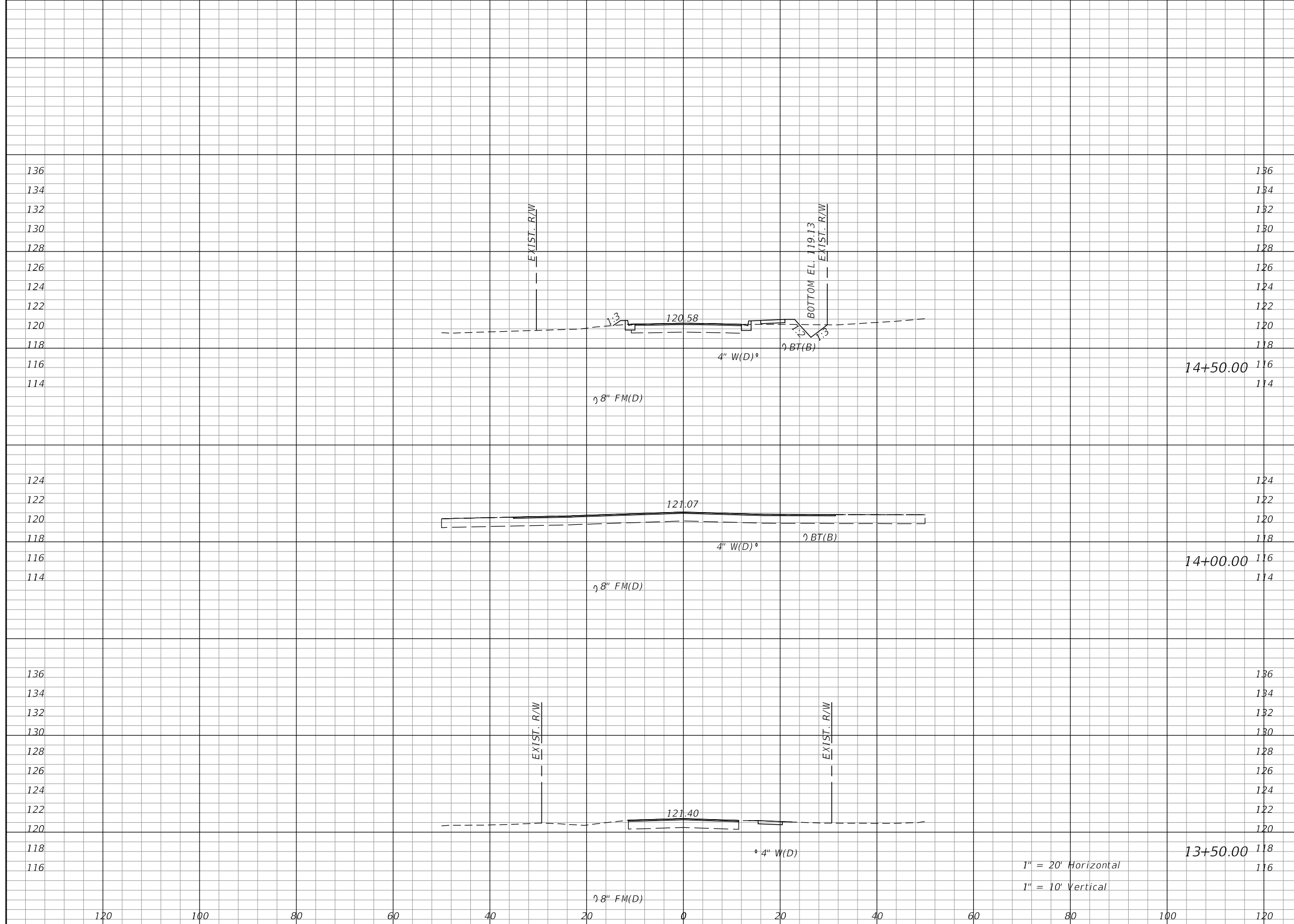
Regular		Exc.		Embankment	
A	V	A	V	A	V
3	5	0	0		
2	3	0	0		
1	3	0	0		

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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**TOWNSEND STREET ROADWAY
 AND STORMWATER IMPROVEMENTS**
 CITY OF WACHULA COUNTY HARDEE

**TOWNSEND STREET
 CROSS SECTIONS**
 SHEET NO. 21
 Approved 2020-D-191-00002
 Donna Cawley
 8/5/2020



Regular		Exc.		Embankment	
A	V	A	V	A	V
4	4	3	3		
0	1	0	3		
1	4	4	3		

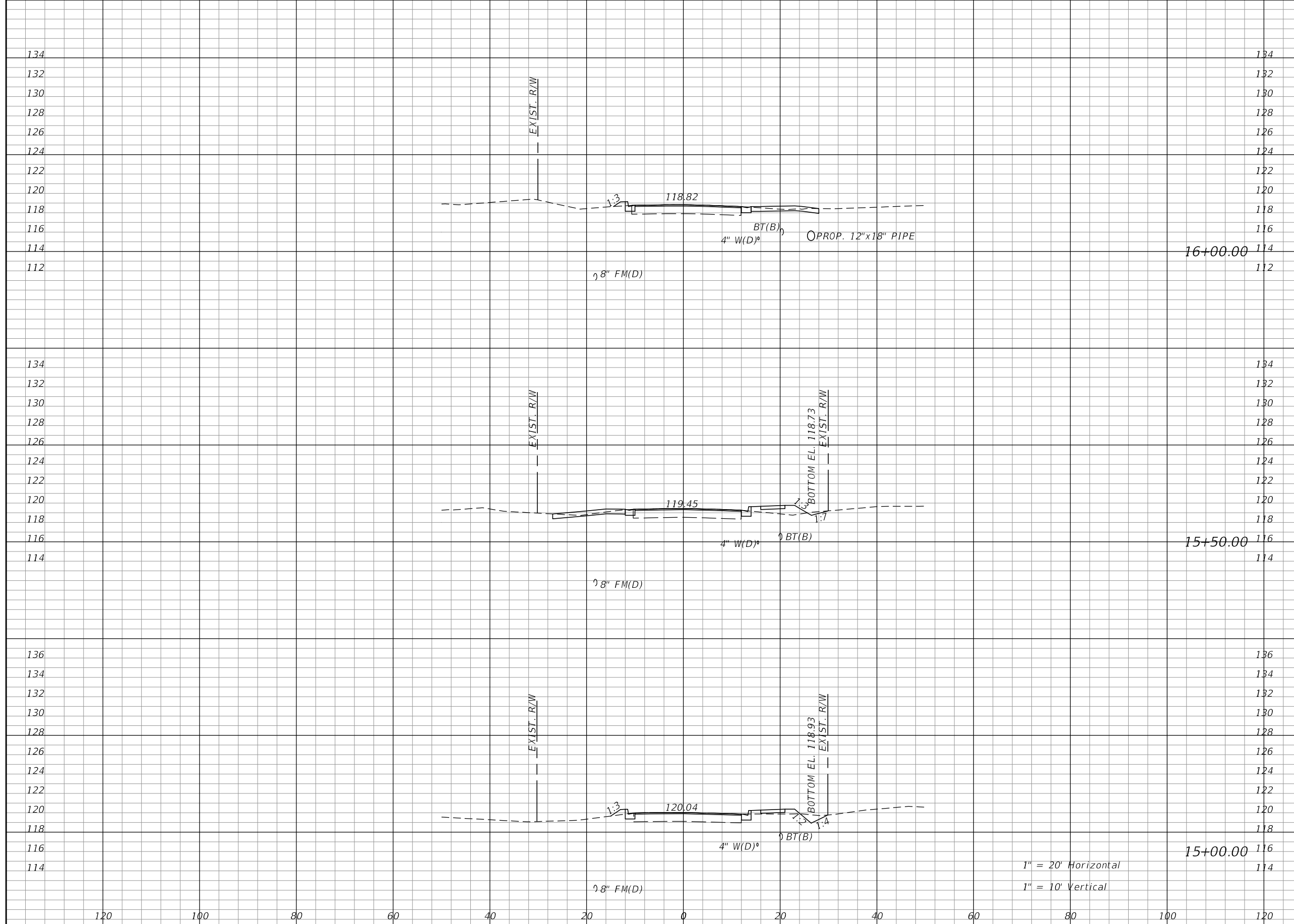
1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KIMLEY-HORN AND ASSOCIATES, INC.
JOHN SEALS, P.E.
P.E. LICENSE NUMBER 51505
655 N FRANKLIN ST, SUITE 150
TAMPA, FL 33602
PHONE (813) 620-1460
CERTIFICATE OF AUTHORIZATION NO. 696

**TOWNSEND STREET ROADWAY
AND STORMWATER IMPROVEMENTS**
CITY OF WACHULA COUNTY HARDEE

**TOWNSEND STREET
CROSS SECTIONS**
Approved
2020-D-191-00002
Donna Cawley
8/5/2020
SHEET NO. 22



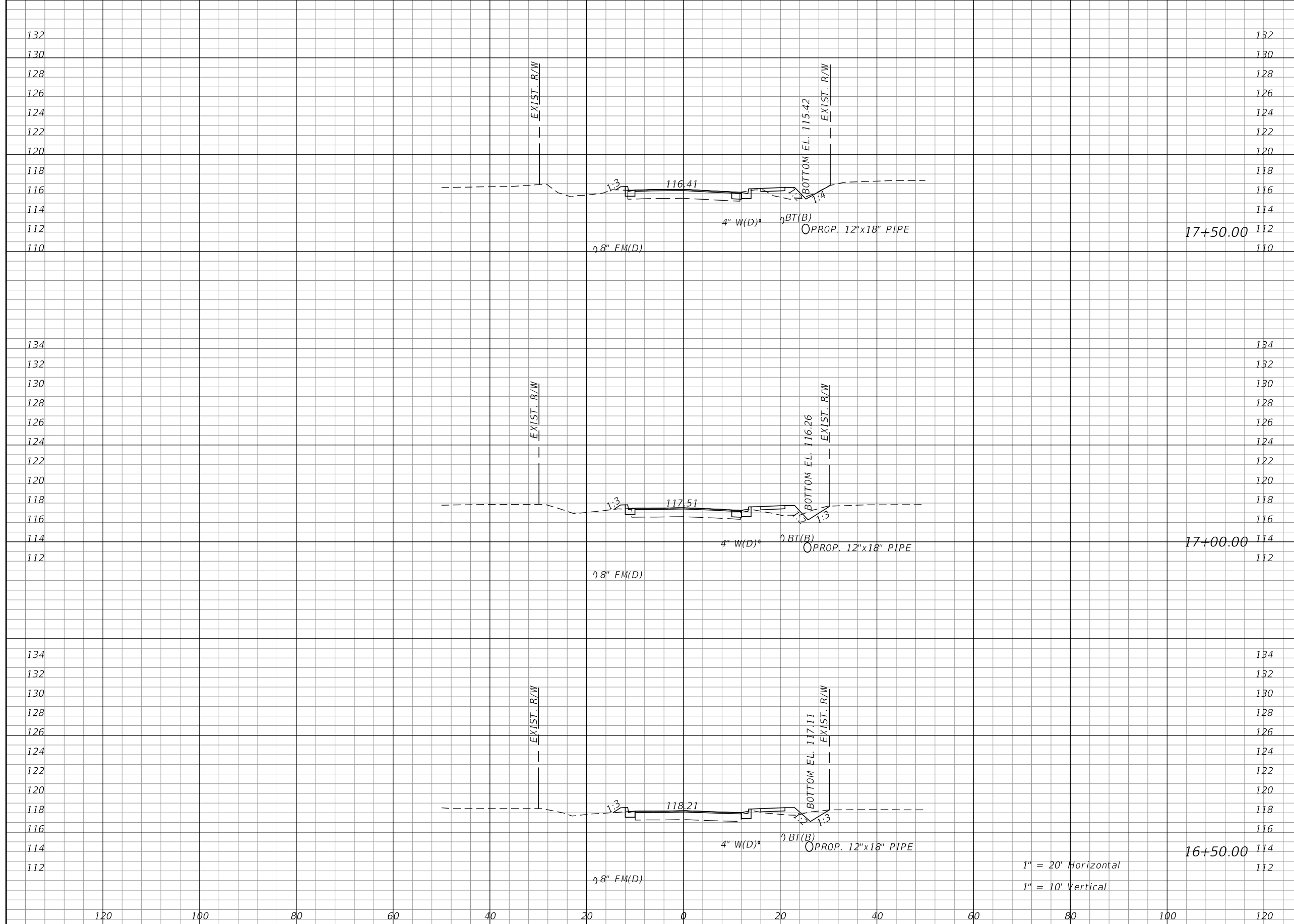
Regular		Exc.		Embankment	
A	V	A	V	A	V
0	1	1	7		
1	3	6	9		
3	6	4	7		

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KIMLEY-HORN AND ASSOCIATES, INC.
 JOHN SEALS, P.E.
 P.E. LICENSE NUMBER 51505
 655 N FRANKLIN ST, SUITE 150
 TAMPA, FL 33602
 PHONE (813) 620-1460
 CERTIFICATE OF AUTHORIZATION NO. 696

**TOWNSEND STREET ROADWAY
 AND STORMWATER IMPROVEMENTS**
 CITY OF WACHULA COUNTY HARDEE

**TOWNSEND STREET
 CROSS SECTIONS**
 SHEET NO. 23
 Approved 2020-D-191-00002
 Donna Cawley
 8/5/2020



Regular		Exc.		Embankment	
A	V	A	V	A	V
1	3	6	12		
3	5	7	10		
3	3	5	5		

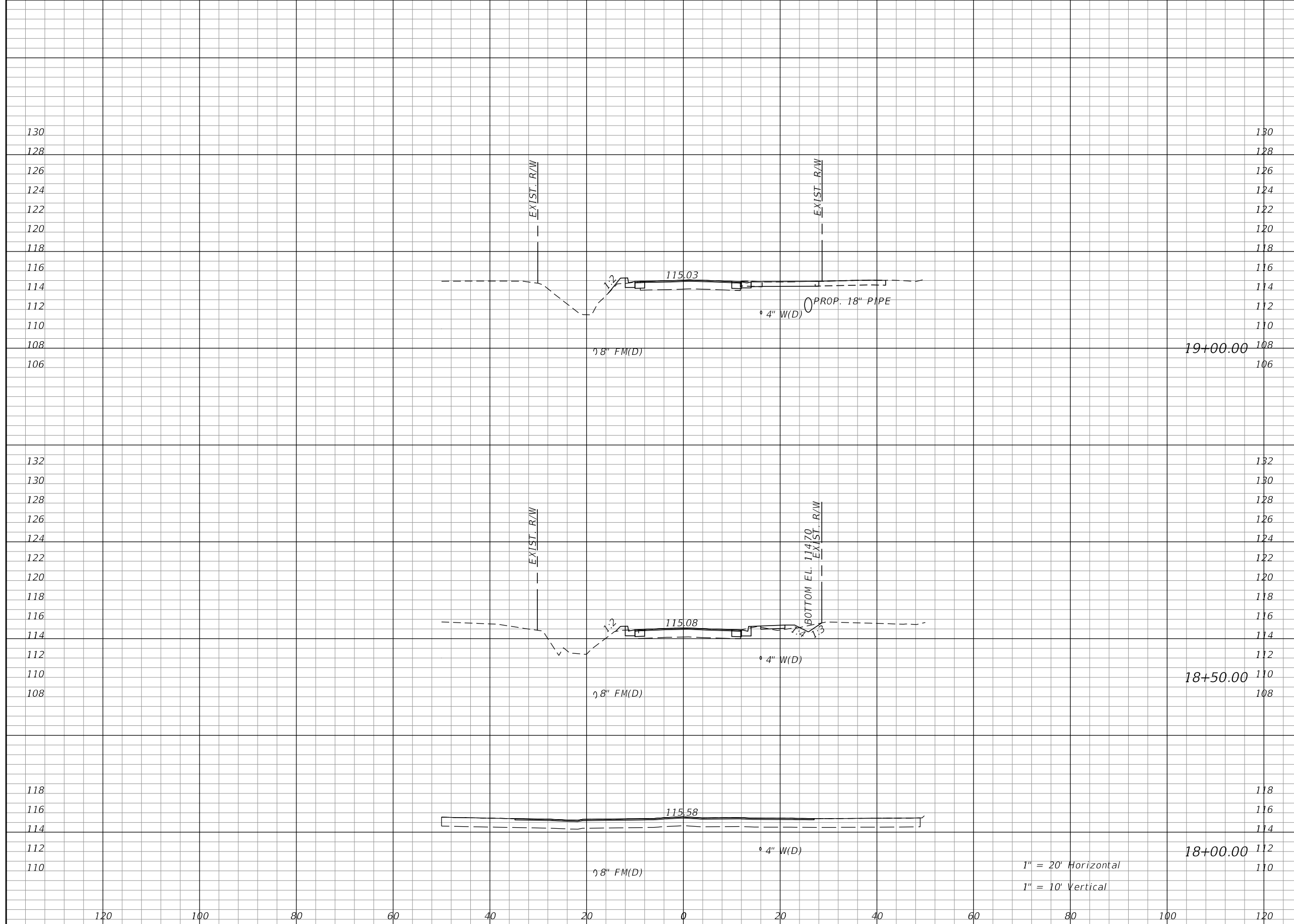
1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KIMLEY-HORN AND ASSOCIATES, INC.
JOHN SEALS, P.E.
P.E. LICENSE NUMBER 51505
655 N FRANKLIN ST, SUITE 150
TAMPA, FL 33602
PHONE (813) 620-1460
CERTIFICATE OF AUTHORIZATION NO. 696

**TOWNSEND STREET ROADWAY
AND STORMWATER IMPROVEMENTS**
CITY OF WACHULA COUNTY HARDEE

**TOWNSEND STREET
CROSS SECTIONS**
SHEET NO. 24
Approved 2020-D-191-00002
Donna Cawley
8/5/2020



Regular Exc.		Embankment	
A	V	A	V
0	1	1	3
1	1	2	2
0	1	0	6

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

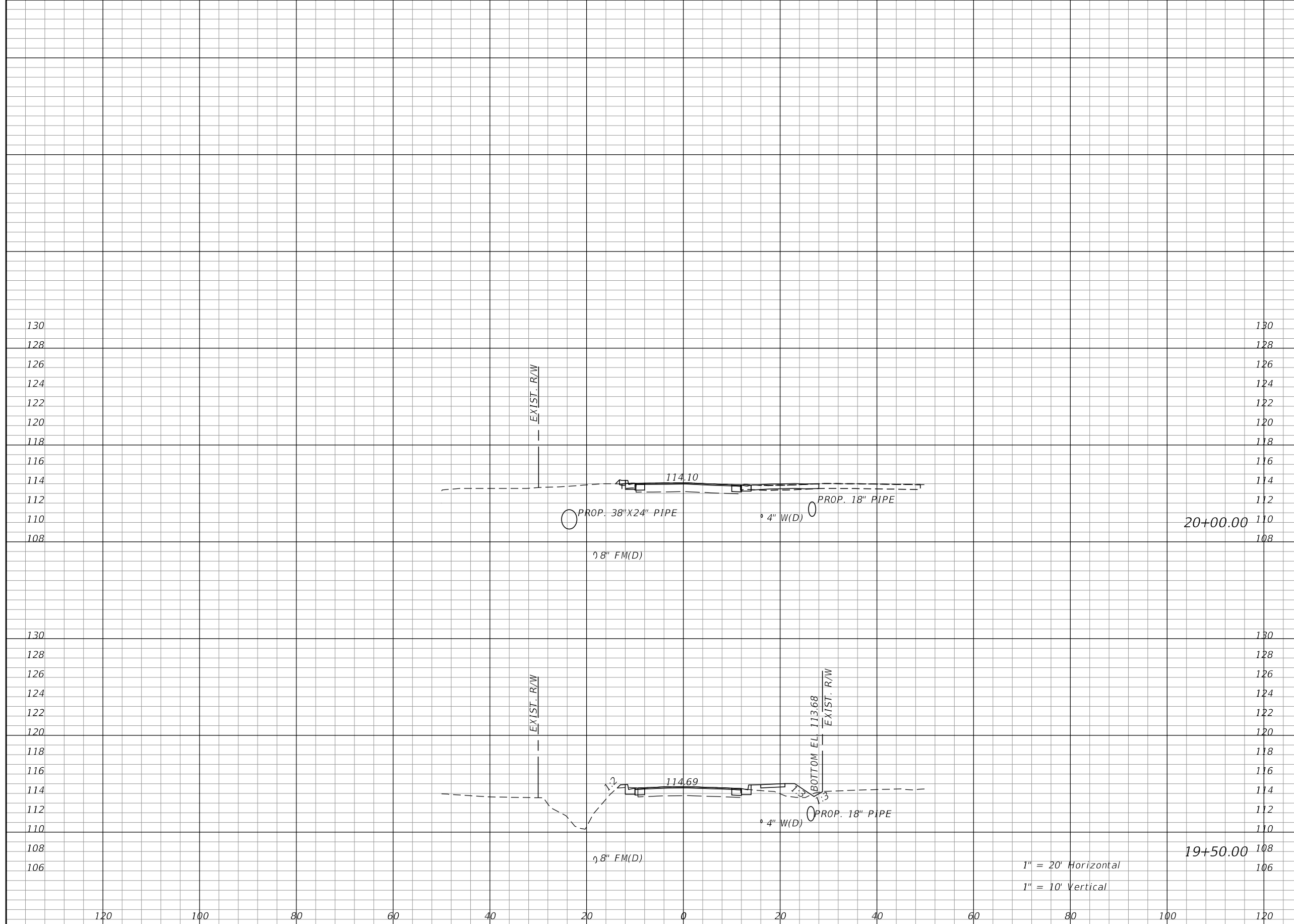
KIMLEY-HORN AND ASSOCIATES, INC.
JOHN SEALS, P.E.
P.E. LICENSE NUMBER 51505
655 N FRANKLIN ST, SUITE 150
TAMPA, FL 33602
PHONE (813) 620-1460
CERTIFICATE OF AUTHORIZATION NO. 696

TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS
CITY OF WACHULA COUNTY HARDEE

TOWNSEND STREET CROSS SECTIONS

SHEET NO. 25

Approved
2020-D-191-00002
Donna Cawley
8/5/2020



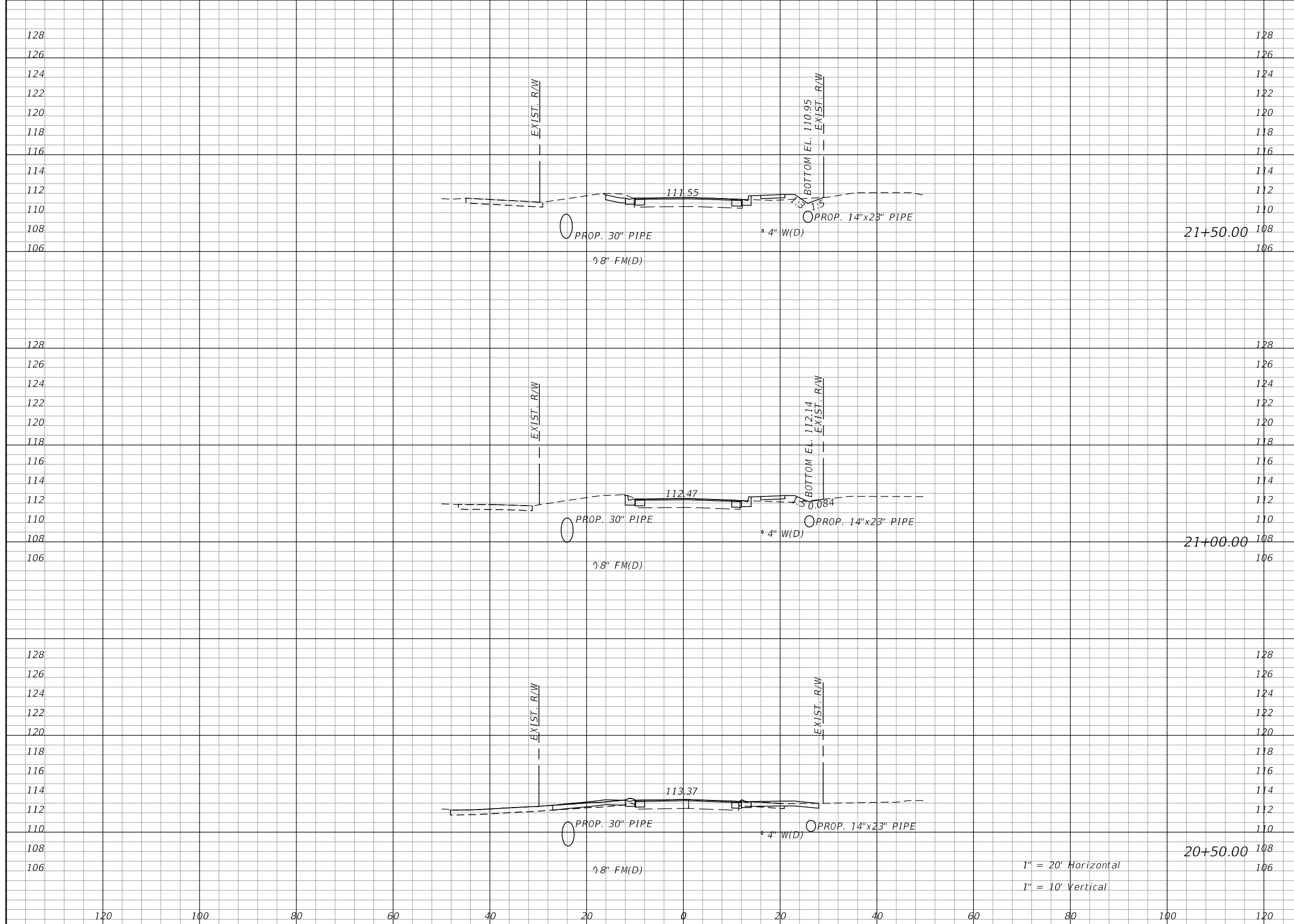
Regular		Exc.		Embankment	
A	V	A	V	A	V
0	1	0	9	1	10

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KIMLEY-HORN AND ASSOCIATES, INC.
 JOHN SEALS, P.E.
 P.E. LICENSE NUMBER 51505
 655 N FRANKLIN ST, SUITE 150
 TAMPA, FL 33602
 PHONE (813) 620-1460
 CERTIFICATE OF AUTHORIZATION NO. 696

**TOWNSEND STREET ROADWAY
 AND STORMWATER IMPROVEMENTS**
 CITY OF WACHULA COUNTY HARDEE

**TOWNSEND STREET
 CROSS SECTIONS**
 SHEET NO. 26
 Approved 2020-D-191-00002
 Donna Cawley
 8/5/2020



Regular		Exc.		Embankment	
A	V	A	V	A	V
3	3	3	3	3	7
1	1	4	4	4	4
0	0	0	0	0	0

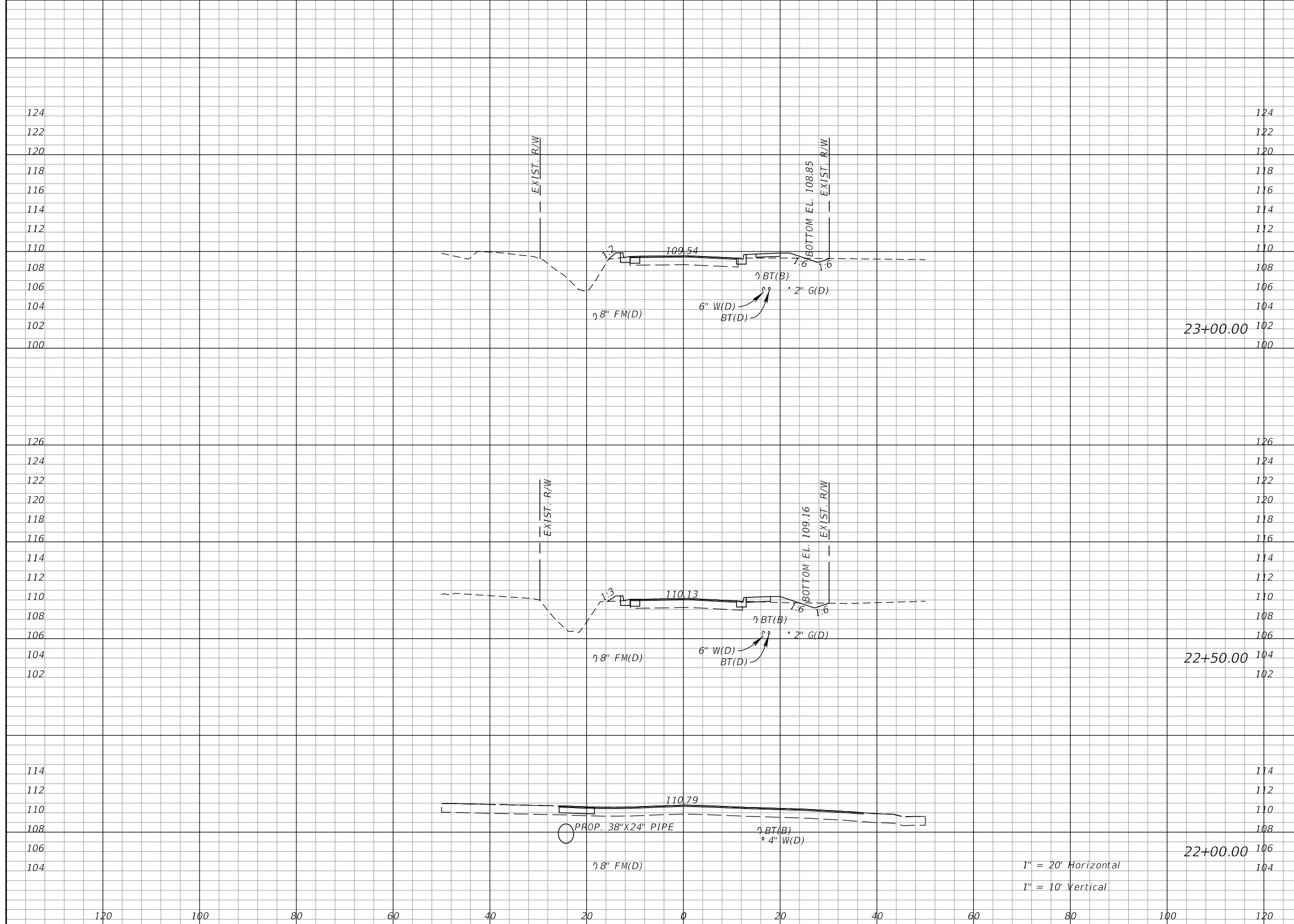
1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KIMLEY-HORN AND ASSOCIATES, INC.
JOHN SEALS, P.E.
P.E. LICENSE NUMBER 51505
655 N FRANKLIN ST, SUITE 150
TAMPA, FL 33602
PHONE (813) 620-1460
CERTIFICATE OF AUTHORIZATION NO. 696

**TOWNSEND STREET ROADWAY
AND STORMWATER IMPROVEMENTS**
CITY OF WACHULA COUNTY HARDEE

**TOWNSEND STREET
CROSS SECTIONS**
Approved
2020-D-191-00002
Donna Cawley
8/5/2020
SHEET NO. 27



Regular		Exc.		Embankment	
A	V	A	V	A	V
0	2	4	9		
2	2	5	5		
0	3	0	3		

1" = 20' Horizontal
1" = 10' Vertical

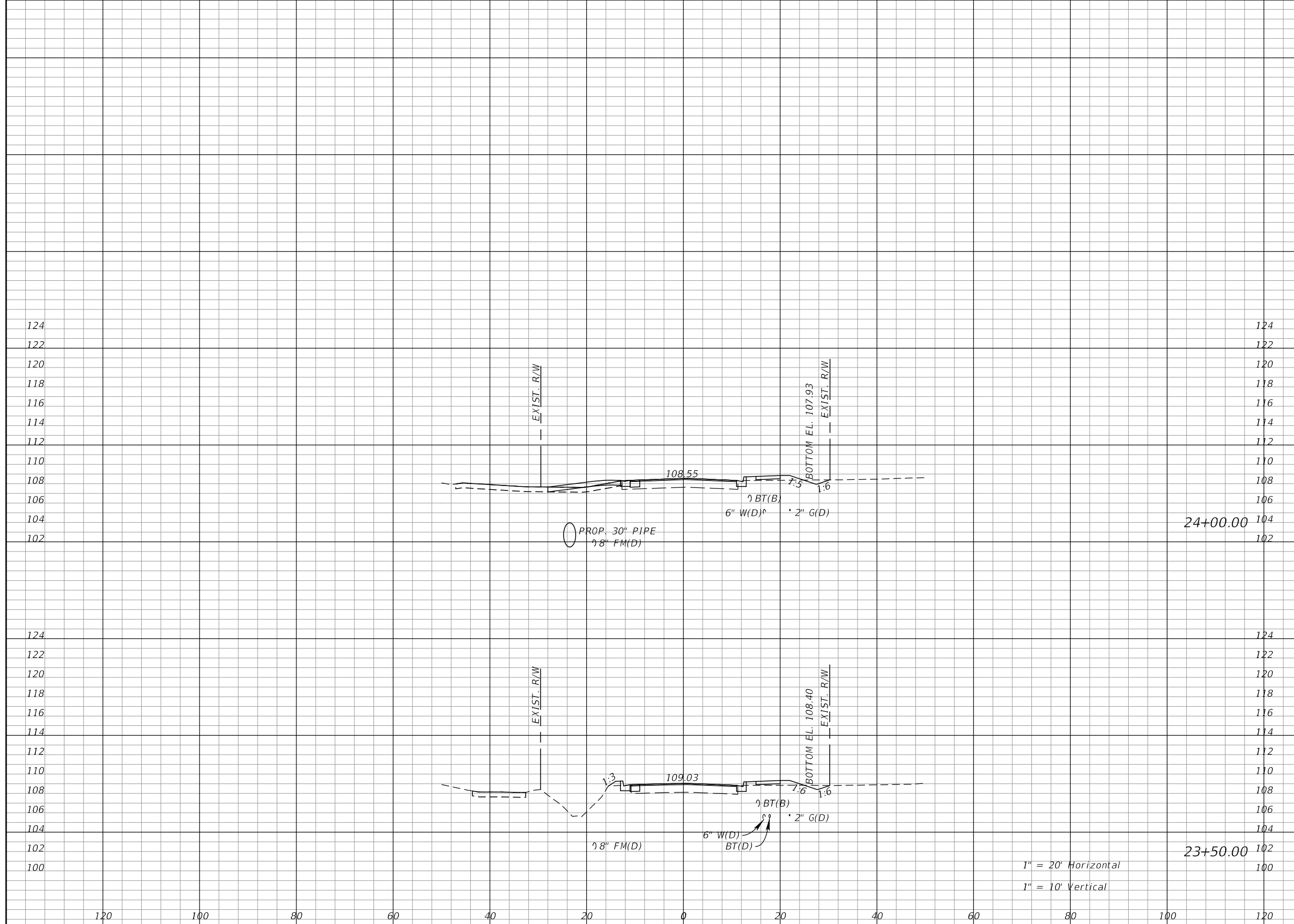
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KIMLEY-HORN AND ASSOCIATES, INC.
JOHN SEALS, P.E.
P.E. LICENSE NUMBER 51505
655 N FRANKLIN ST, SUITE 150
TAMPA, FL 33602
PHONE (813) 620-1460
CERTIFICATE OF AUTHORIZATION NO. 696

TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS
CITY OF WACHULA COUNTY HARDEE

TOWNSEND STREET CROSS SECTIONS

Approved
2020-D-191-00002
Donna Cawley
8/5/2020
SHEET NO. 28



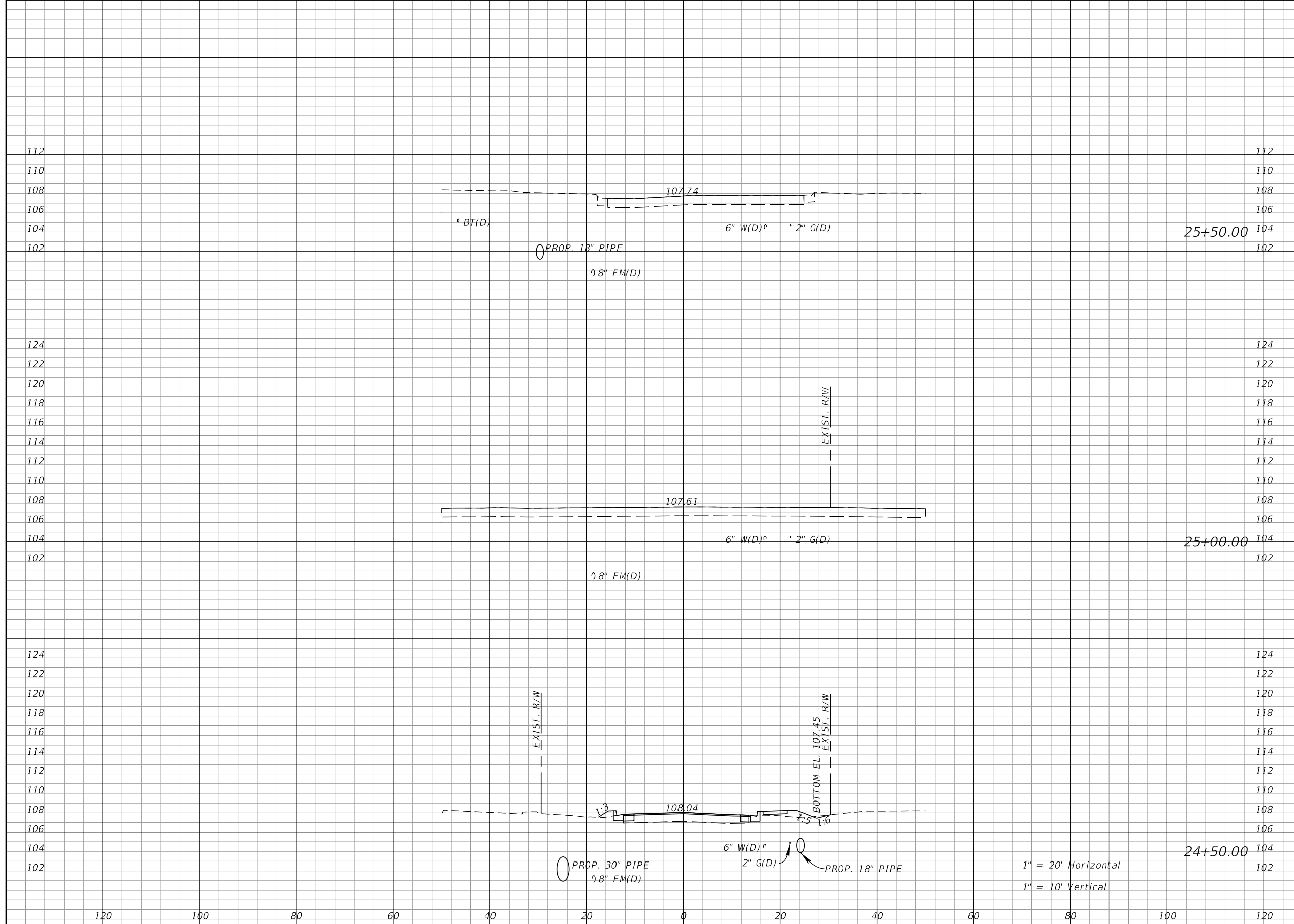
Regular		Exc.		Embankment	
A	V	A	V	A	V
1	2	3	6		
1	2	4	7		

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KIMLEY-HORN AND ASSOCIATES, INC.
 JOHN SEALS, P.E.
 P.E. LICENSE NUMBER 51505
 655 N FRANKLIN ST, SUITE 150
 TAMPA, FL 33602
 PHONE (813) 620-1460
 CERTIFICATE OF AUTHORIZATION NO. 696

**TOWNSEND STREET ROADWAY
 AND STORMWATER IMPROVEMENTS**
 CITY OF WACHULA COUNTY HARDEE

**TOWNSEND STREET
 CROSS SECTIONS**
 SHEET NO. 29
 Approved 2020-D-191-00002
 Donna Cawley
 8/5/2020



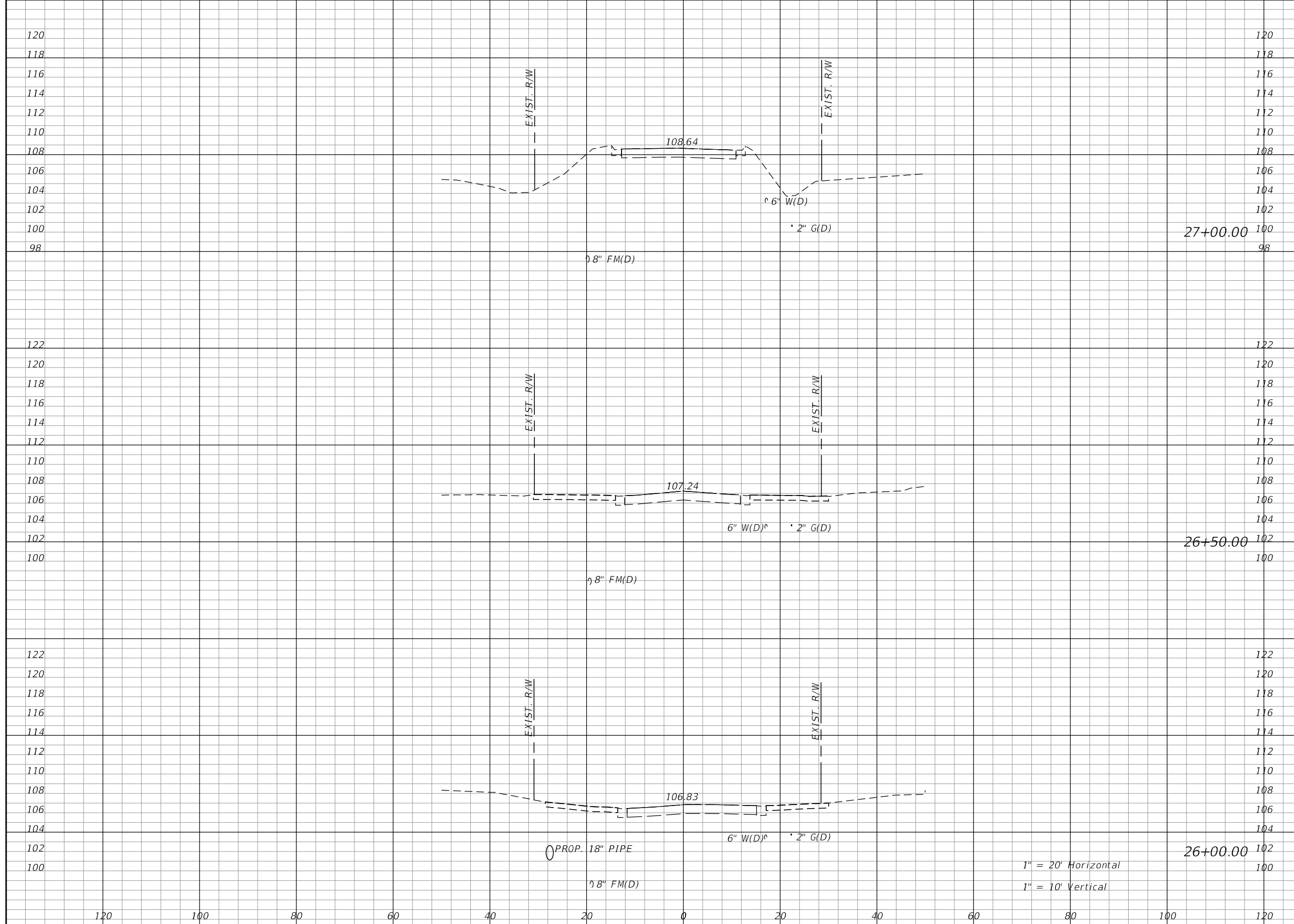
Regular		Exc.		Embankment	
A	V	A	V	A	V
0	0	0	0	0	0
0	2	0	4	0	4
2	3	4	7	4	7

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KIMLEY-HORN AND ASSOCIATES, INC.
 JOHN SEALS, P.E.
 P.E. LICENSE NUMBER 51505
 655 N FRANKLIN ST, SUITE 150
 TAMPA, FL 33602
 PHONE (813) 620-1460
 CERTIFICATE OF AUTHORIZATION NO. 696

**TOWNSEND STREET ROADWAY
 AND STORMWATER IMPROVEMENTS**
 CITY OF WACHULA COUNTY HARDEE

**TOWNSEND STREET
 CROSS SECTIONS**
 SHEET NO. 30
 Approved 2020-D-191-00002
 Donna Cawley
 8/5/2020



Regular		Exc.		Embankment	
A	V	A	V	A	V
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0

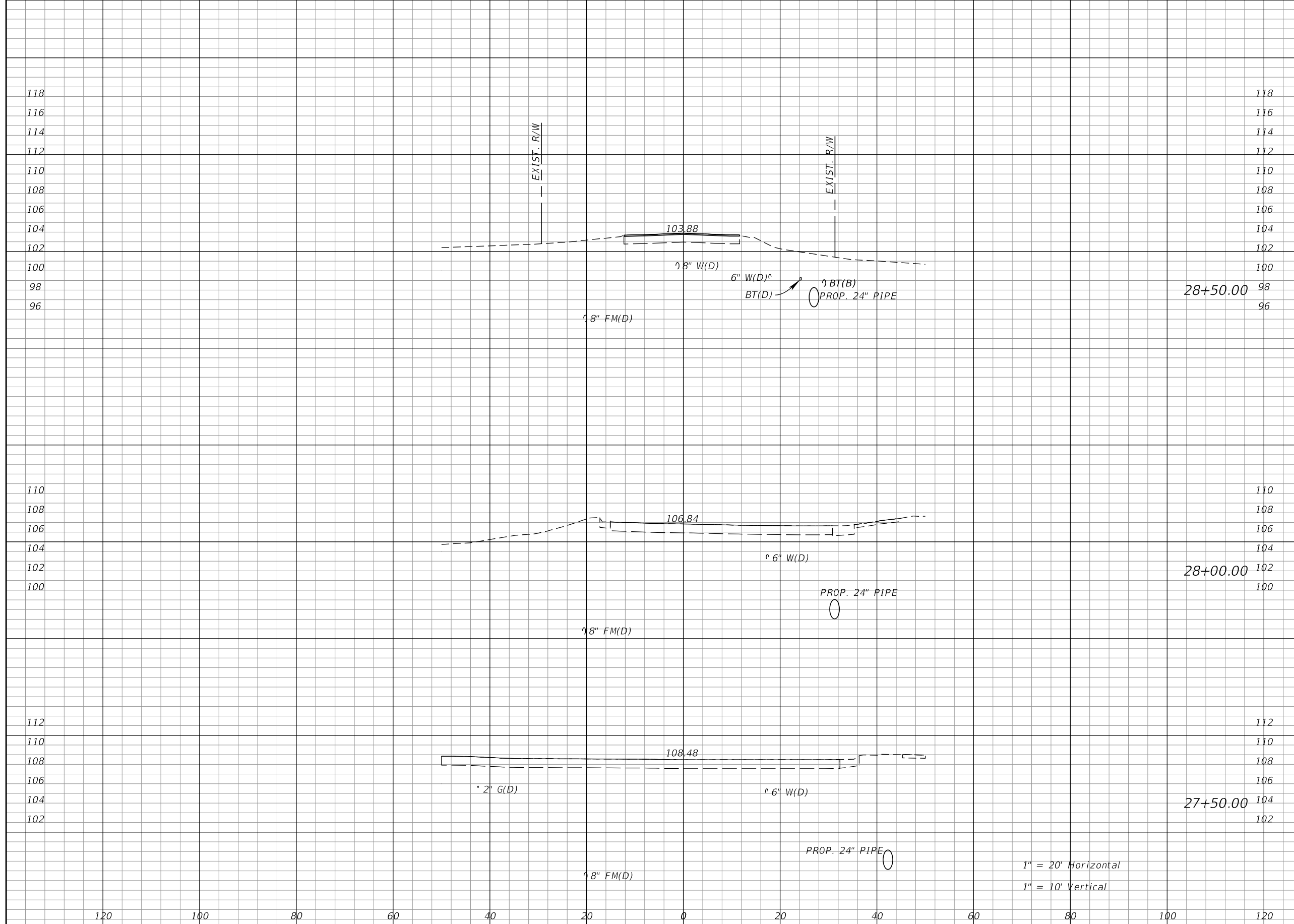
1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KIMLEY-HORN AND ASSOCIATES, INC.
JOHN SEALS, P.E.
P.E. LICENSE NUMBER 51505
655 N FRANKLIN ST, SUITE 150
TAMPA, FL 33602
PHONE (813) 620-1460
CERTIFICATE OF AUTHORIZATION NO. 696

**TOWNSEND STREET ROADWAY
AND STORMWATER IMPROVEMENTS**
CITY OF WACHULA COUNTY HARDEE

**TOWNSEND STREET
CROSS SECTIONS**
SHEET NO. 31
Approved 2020-D-191-00002
Donna Cawley
8/5/2020



Regular		Exc.		Embankment	
A	V	A	V	A	V
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0

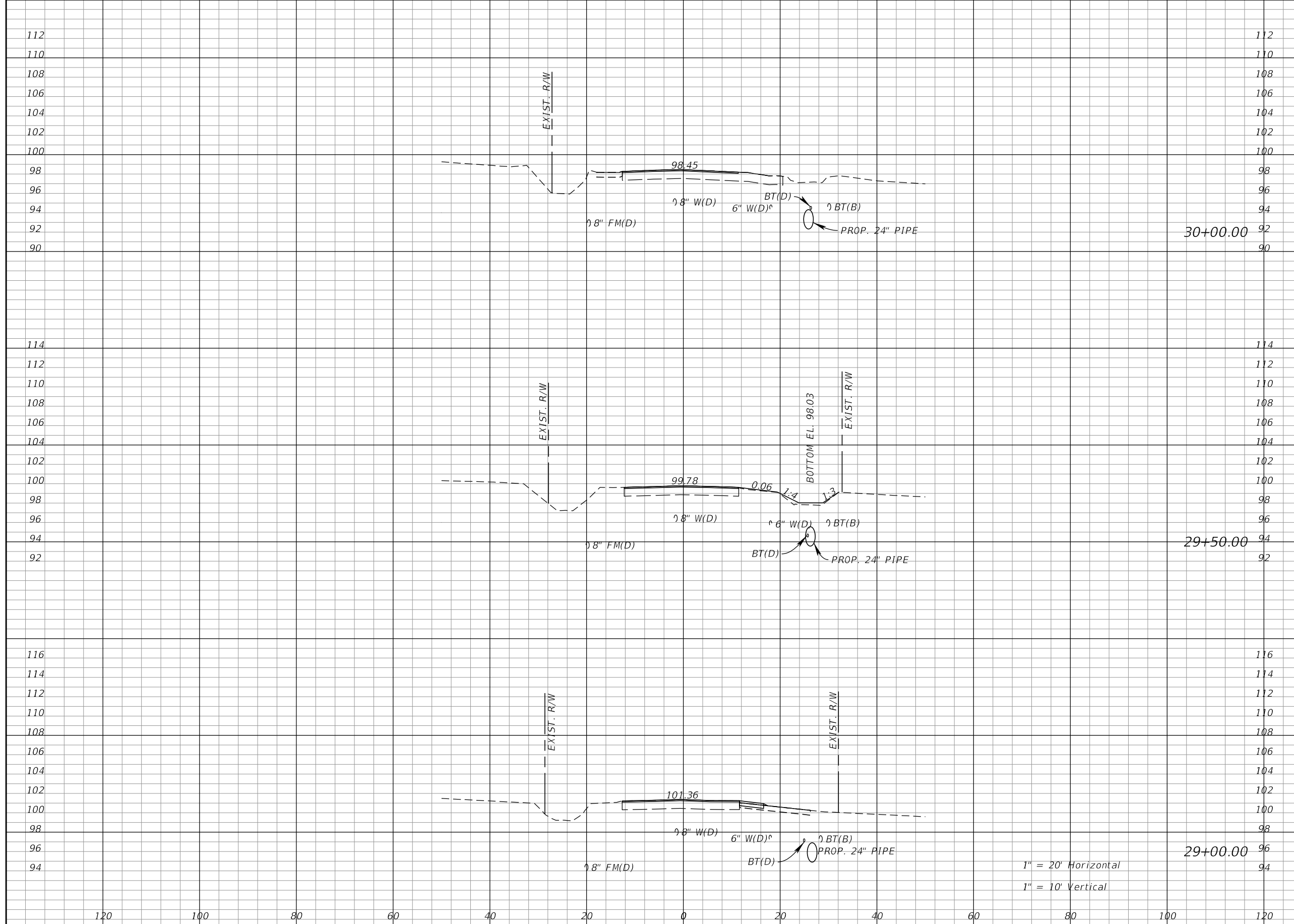
1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KIMLEY-HORN AND ASSOCIATES, INC.
JOHN SEALS, P.E.
P.E. LICENSE NUMBER 51505
655 N FRANKLIN ST., SUITE 150
TAMPA, FL 33602
PHONE (813) 620-1460
CERTIFICATE OF AUTHORIZATION NO. 696

**TOWNSEND STREET ROADWAY
AND STORMWATER IMPROVEMENTS**
CITY OF WACHULA COUNTY HARDEE

**TOWNSEND STREET
CROSS SECTIONS**
SHEET NO. 32
Approved 2020-D-191-00002
Donna Cawley
8/5/2020



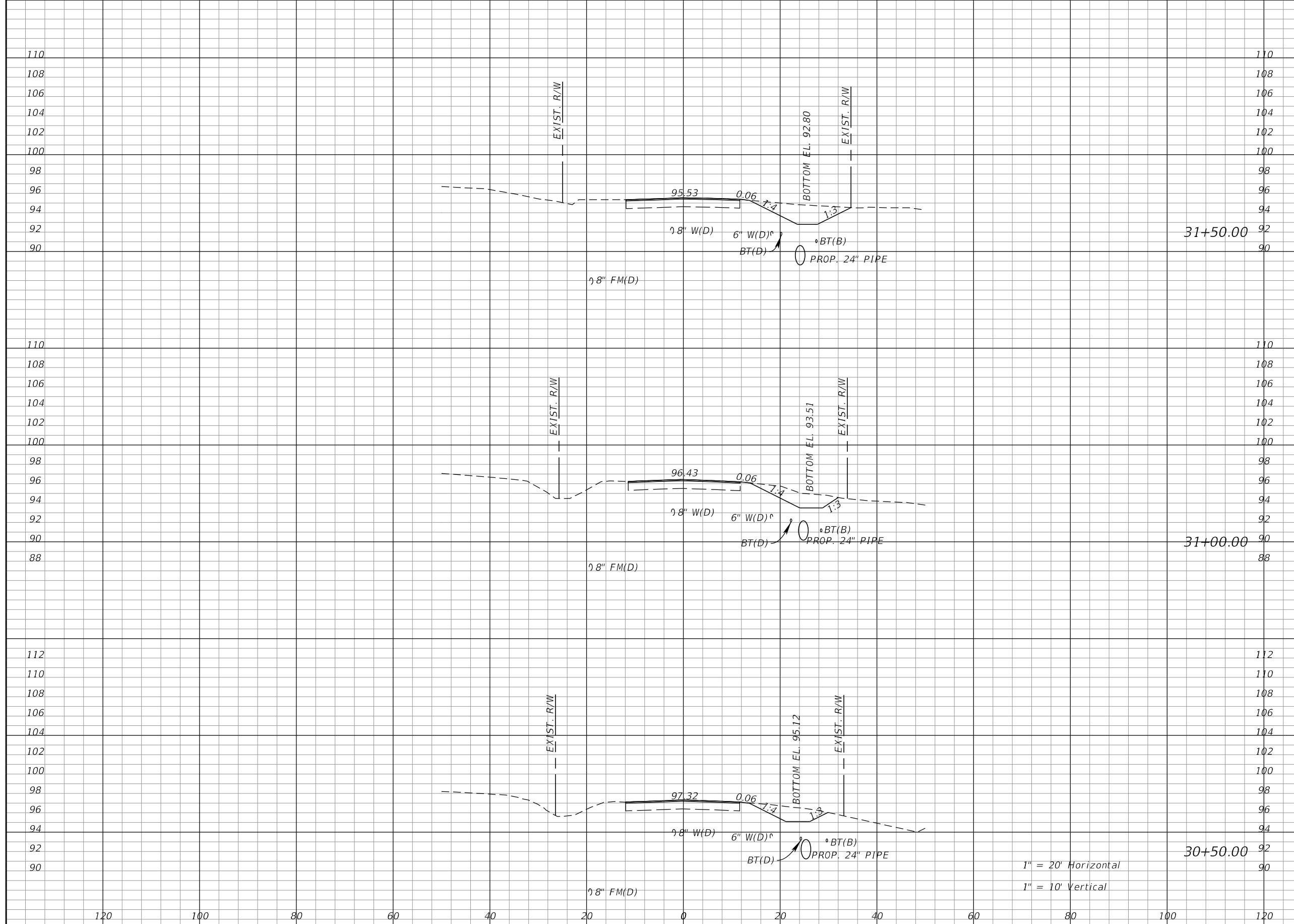
Regular		Exc.		Embankment	
A	V	A	V	A	V
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KIMLEY-HORN AND ASSOCIATES, INC.
 JOHN SEALS, P.E.
 P.E. LICENSE NUMBER 51505
 655 N FRANKLIN ST, SUITE 150
 TAMPA, FL 33602
 PHONE (813) 620-1460
 CERTIFICATE OF AUTHORIZATION NO. 696

**TOWNSEND STREET ROADWAY
 AND STORMWATER IMPROVEMENTS**
 CITY OF WACHULA COUNTY HARDEE

**TOWNSEND STREET
 CROSS SECTIONS**
 SHEET NO. 33
 Approved 2020-D-191-00002
 Donna Cawley
 8/5/2020



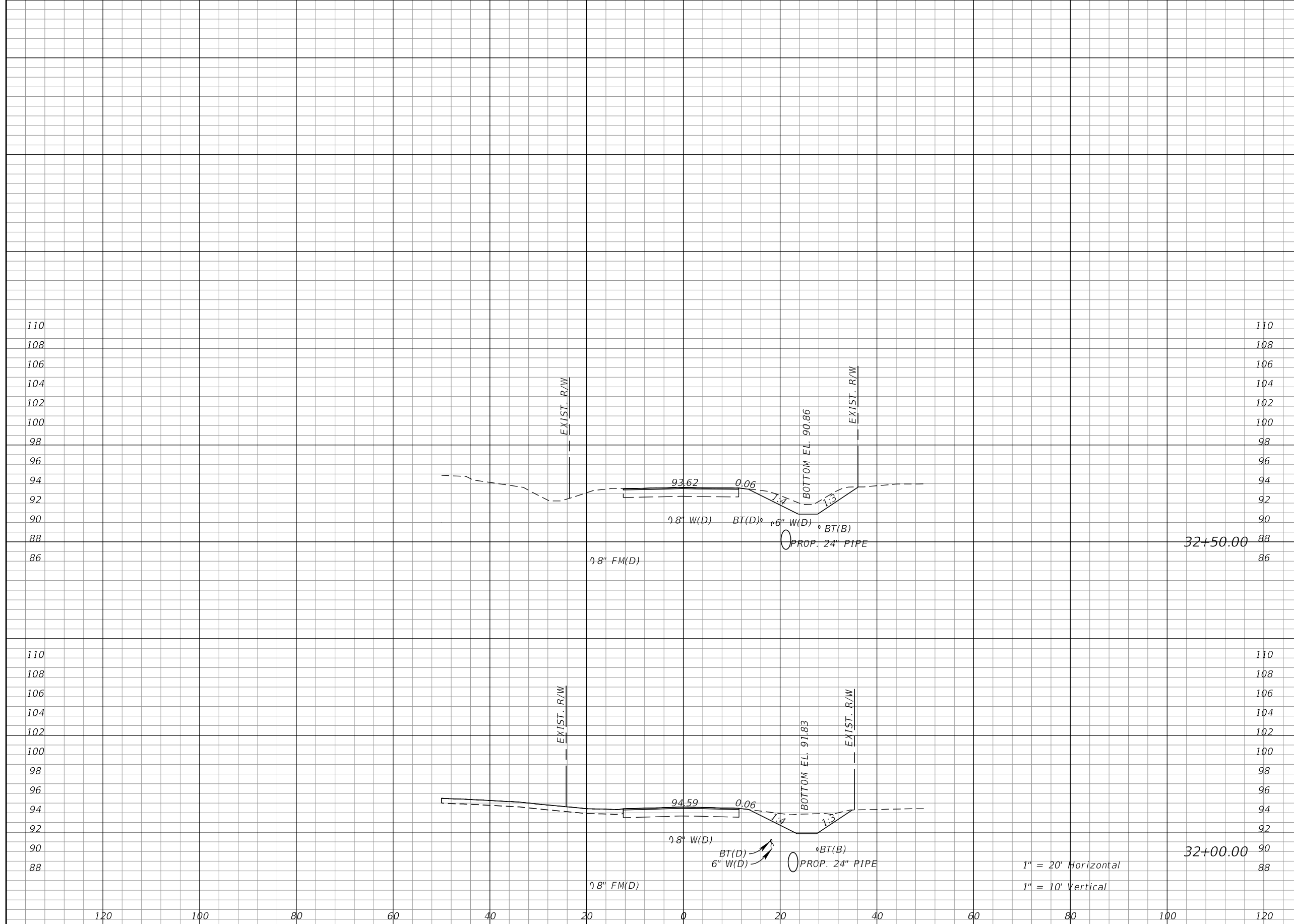
Regular		Exc.		Embankment	
A	V	A	V	A	V
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KIMLEY-HORN AND ASSOCIATES, INC.
 JOHN SEALS, P.E.
 P.E. LICENSE NUMBER 51505
 655 N FRANKLIN ST, SUITE 150
 TAMPA, FL 33602
 PHONE (813) 620-1460
 CERTIFICATE OF AUTHORIZATION NO. 696

**TOWNSEND STREET ROADWAY
 AND STORMWATER IMPROVEMENTS**
 CITY OF WACHULA COUNTY HARDEE

**TOWNSEND STREET
 CROSS SECTIONS**
 SHEET NO. 34
 Approved 2020-D-191-00002
 Donna Cawley
 8/5/2020



Regular		Exc.		Embankment	
A	V	A	V	A	V
0	0	0	0	0	0
0	0	0	0	0	0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

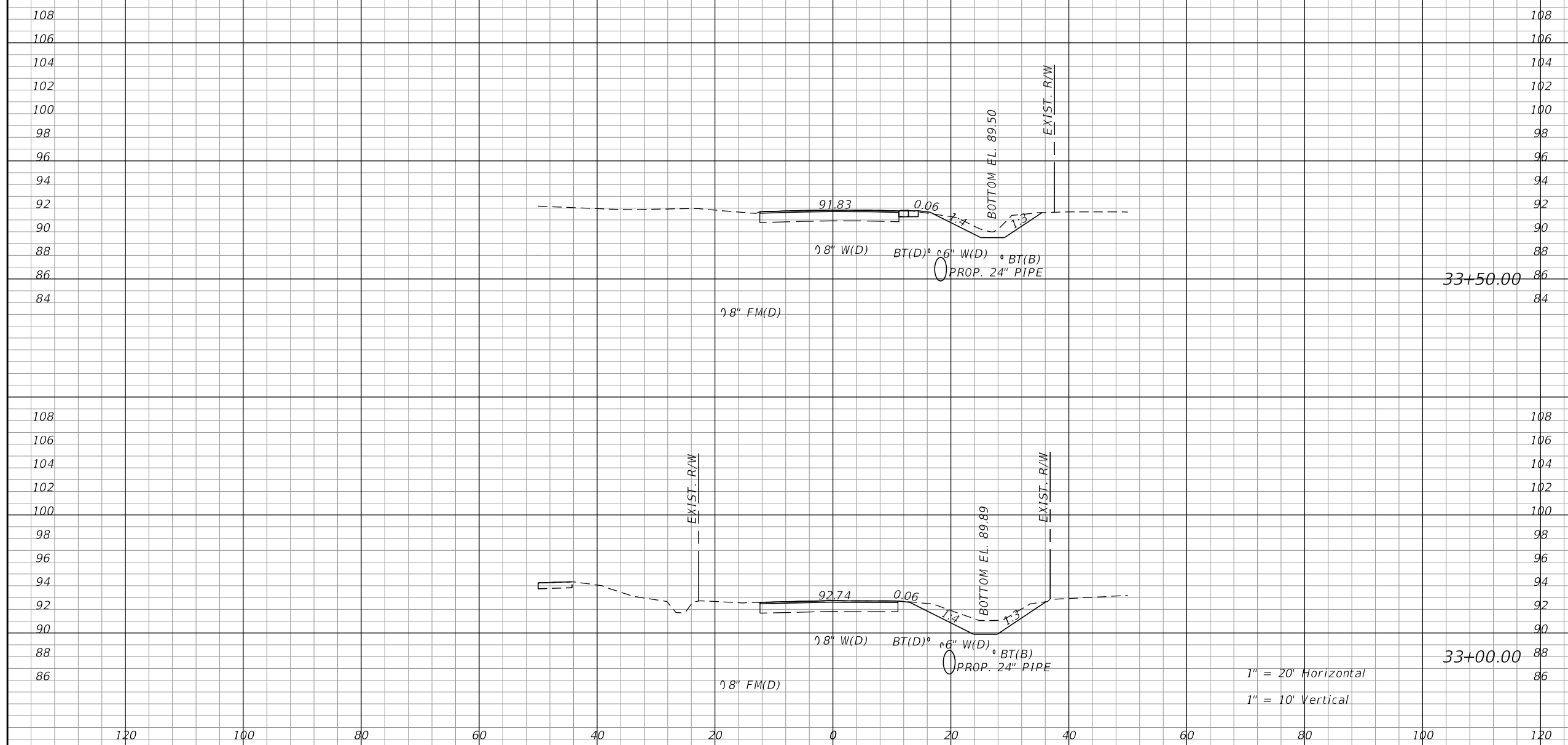
KIMLEY-HORN AND ASSOCIATES, INC.
 JOHN SEALS, P.E.
 P.E. LICENSE NUMBER 51505
 655 N FRANKLIN ST, SUITE 150
 TAMPA, FL 33602
 PHONE (813) 620-1460
 CERTIFICATE OF AUTHORIZATION NO. 696

**TOWNSEND STREET ROADWAY
 AND STORMWATER IMPROVEMENTS**
 CITY OF WACHULA COUNTY HARDEE

**TOWNSEND STREET
 CROSS SECTIONS**
 SHEET NO. 35

Approved
 2020-D-191-00002
 Donna Cawley
 8/5/2020

Regular		Exc.		Embankment	
A	V	A	V	A	V



108	108				
106	106				
104	104				
102	102				
100	100				
98	98				
96	96				
94	94				
92	92	0	0	0	0
90	90				
88	88				
86	86				
84	84				
108	108				
106	106				
104	104				
102	102				
100	100				
98	98				
96	96				
94	94				
92	92	0	0	0	0
90	90				
88	88				
86	86				

1" = 20' Horizontal
1" = 10' Vertical

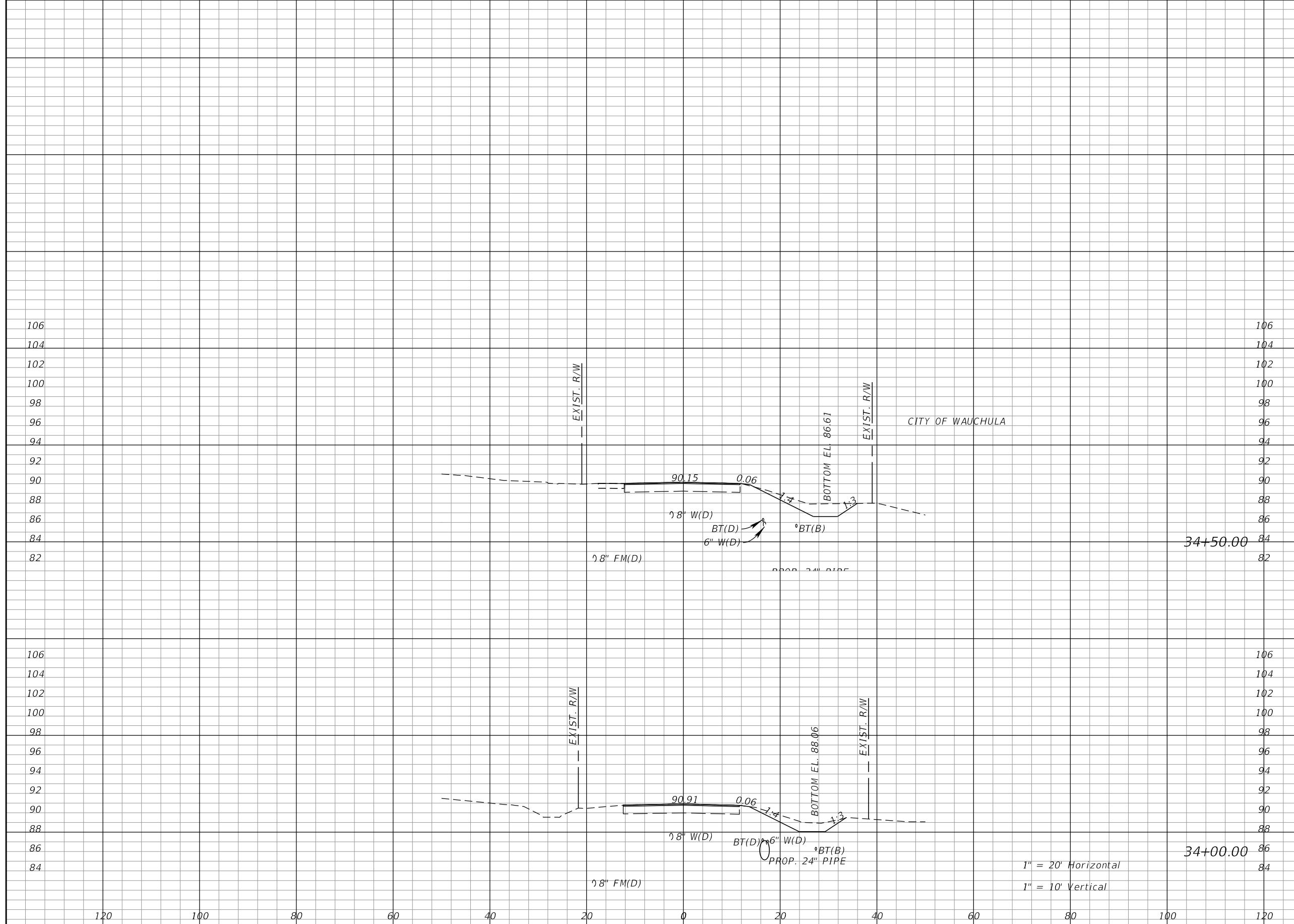
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KIMLEY-HORN AND ASSOCIATES, INC.
JOHN SEALS, P.E.
P.E. LICENSE NUMBER 51505
655 N FRANKLIN ST, SUITE 150
TAMPA, FL 33602
PHONE (813) 620-1460
CERTIFICATE OF AUTHORIZATION NO. 696

**TOWNSEND STREET ROADWAY
AND STORMWATER IMPROVEMENTS**
CITY OF WACHULA COUNTY HARDEE

**TOWNSEND STREET
CROSS SECTIONS**

SHEET NO. 36
Approved
2020-D-191-00002
Donna Cawley
8/5/2020



Regular		Exc.		Embankment	
A	V	A	V	A	V
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0	0	0	0	0	0

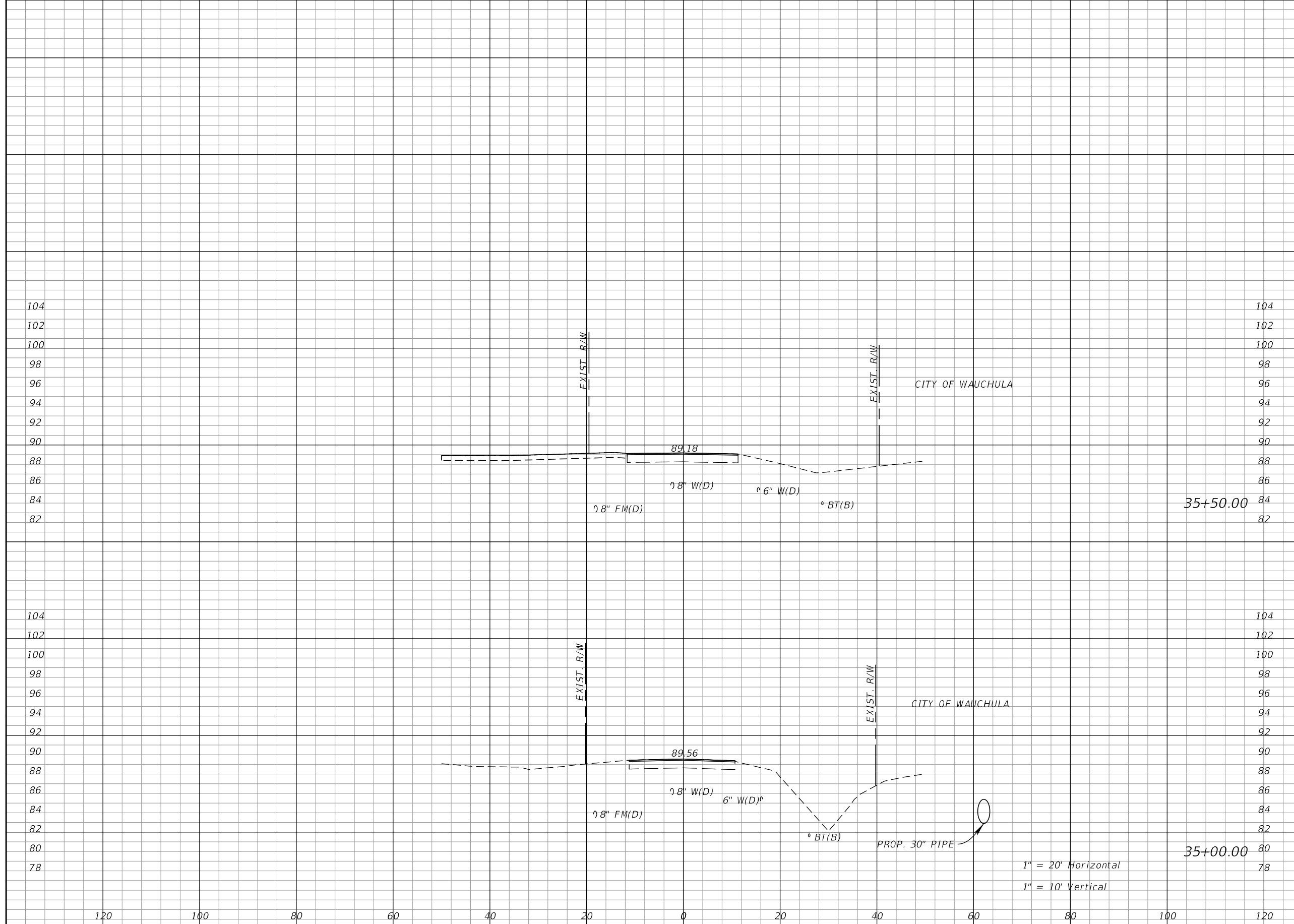
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KIMLEY-HORN AND ASSOCIATES, INC.
 JOHN SEALS, P.E.
 P.E. LICENSE NUMBER 51505
 655 N FRANKLIN ST., SUITE 150
 TAMPA, FL 33602
 PHONE (813) 620-1460
 CERTIFICATE OF AUTHORIZATION NO. 696

**TOWNSEND STREET ROADWAY
 AND STORMWATER IMPROVEMENTS**
 CITY OF WACHULA COUNTY HARDEE

**TOWNSEND STREET
 CROSS SECTIONS**
 SHEET NO. 37

Approved
 2020-D-191-00002
 Donna Cawley
 8/5/2020



Regular		Exc.		Embankment	
A	V	A	V	A	V
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0	0	0	0	0	0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

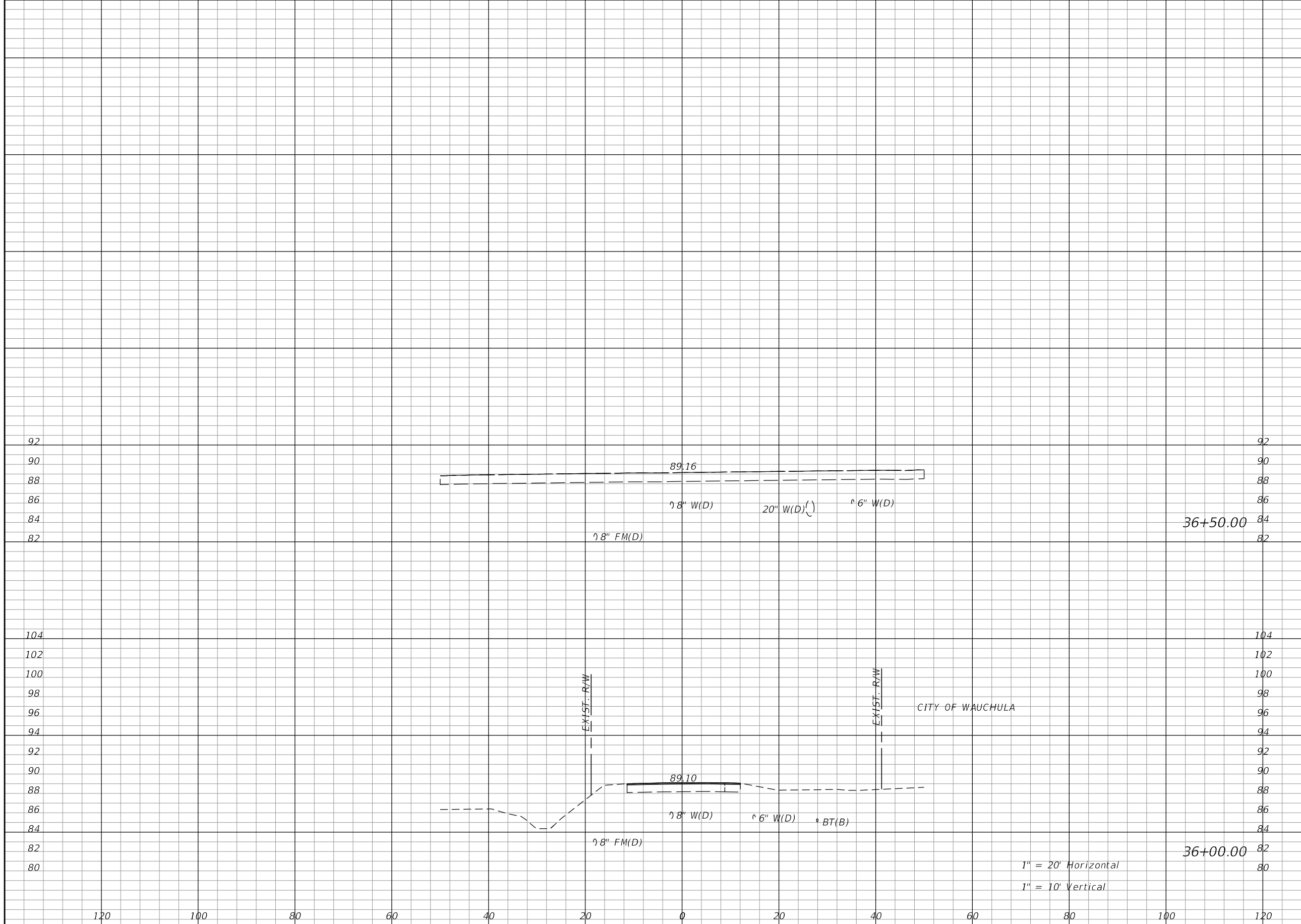
KIMLEY-HORN AND ASSOCIATES, INC.
 JOHN SEALS, P.E.
 P.E. LICENSE NUMBER 51505
 655 N FRANKLIN ST, SUITE 150
 TAMPA, FL 33602
 PHONE (813) 620-1460
 CERTIFICATE OF AUTHORIZATION NO. 696

**TOWNSEND STREET ROADWAY
 AND STORMWATER IMPROVEMENTS**
 CITY OF WACHULA COUNTY HARDEE

**TOWNSEND STREET
 CROSS SECTIONS**

SHEET NO. 38

Approved
 2020-D-191-00002
 Donna Cawley
 8/5/2020



Regular		Exc.		Embankment	
A	V	A	V	A	V
0	0	0	0	0	0
0	0	0	0	0	0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KIMLEY-HORN AND ASSOCIATES, INC.
 JOHN SEALS, P.E.
 P.E. LICENSE NUMBER 51505
 655 N FRANKLIN ST., SUITE 150
 TAMPA, FL 33602
 PHONE (813) 620-1460
 CERTIFICATE OF AUTHORIZATION NO. 696

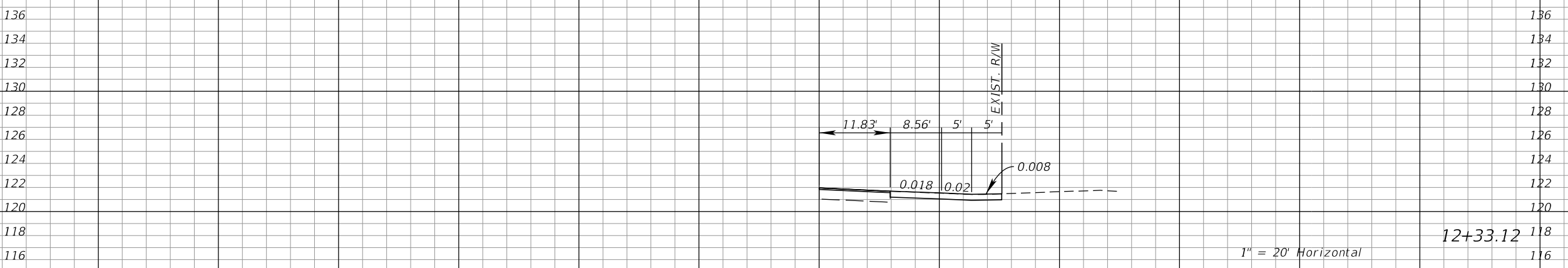
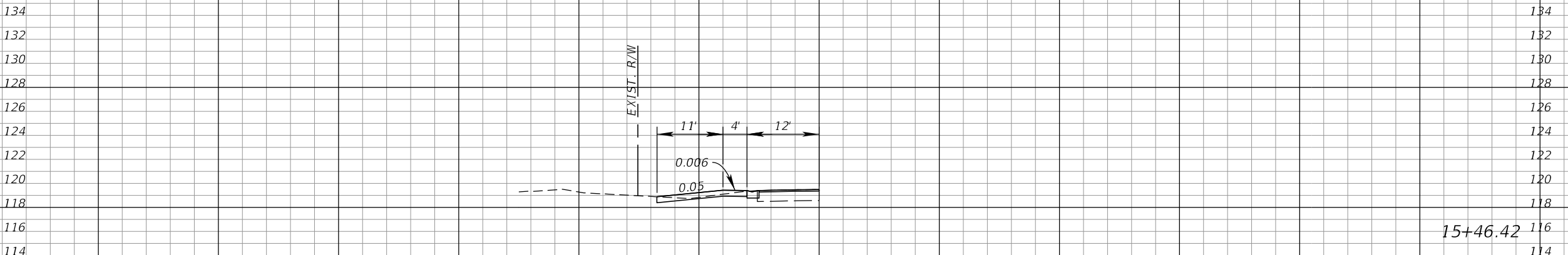
**TOWNSEND STREET ROADWAY
 AND STORMWATER IMPROVEMENTS**
 CITY OF WACHULA COUNTY
 WACHULA HARDEE

**TOWNSEND STREET
 CROSS SECTIONS**

SHEET NO. 39

Approved
 2020-D-191-00002
 Donna Cawley
 8/5/2020

Regular Exc.		Embankment	
A	V	A	V



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KIMLEY-HORN AND ASSOCIATES, INC.
JOHN SEALS, P.E.
P.E. LICENSE NUMBER 51505
655 N FRANKLIN ST., SUITE 150
TAMPA, FL 33602
PHONE (813) 620-1460
CERTIFICATE OF AUTHORIZATION NO. 696

**TOWNSEND STREET ROADWAY
AND STORMWATER IMPROVEMENTS**

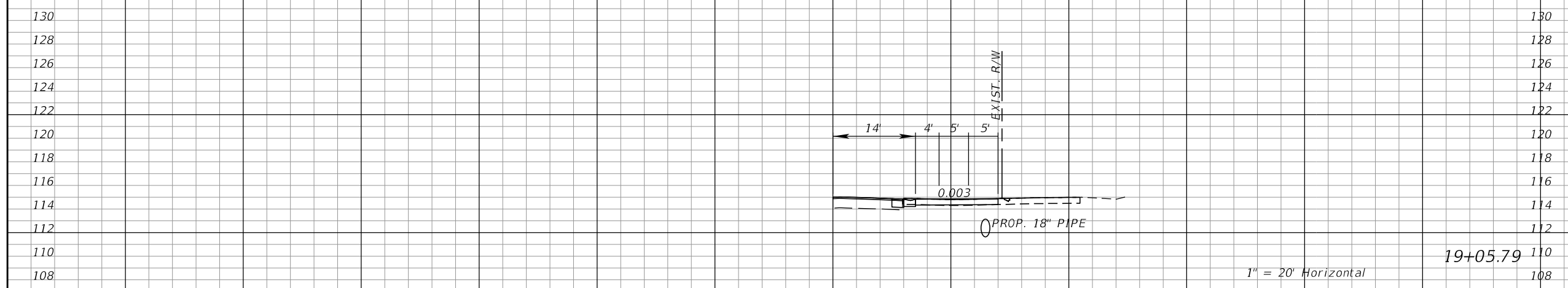
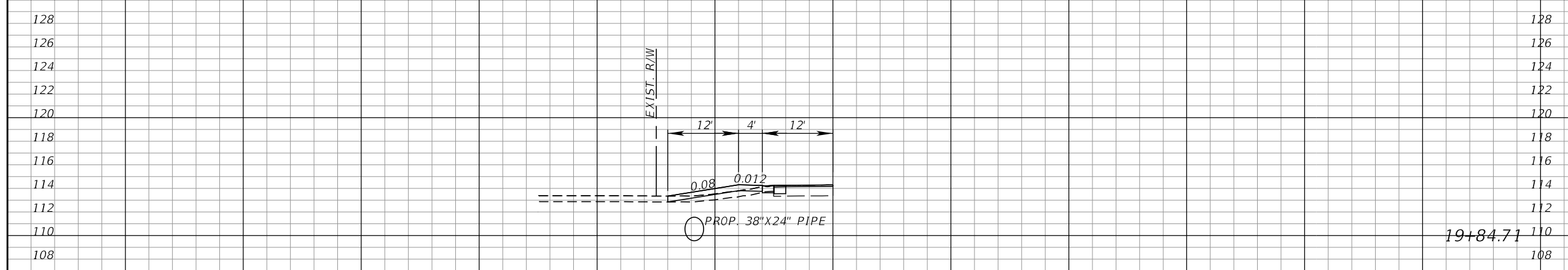
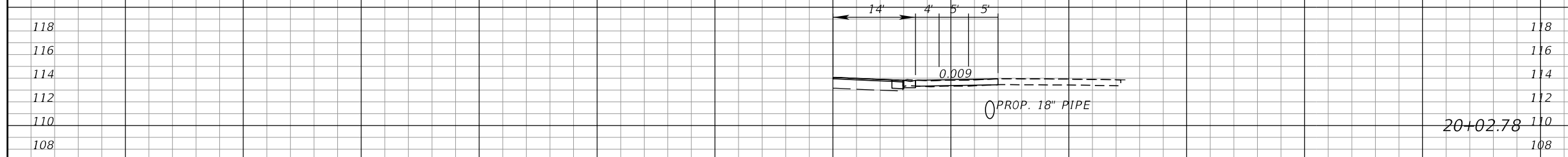
CITY OF	COUNTY
WACHULA	HARDEE

**TOWNSEND STREET
DRIVEWAY HALF SECTIONS**

SHEET NO. 40

Approved
2020-D-191-00002
Donna Cawley
8/5/2020

Regular Exc.		Embankment	
A	V	A	V



1" = 20' Horizontal
1" = 10' Vertical

120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KIMLEY-HORN AND ASSOCIATES, INC.
JOHN SEALS, P.E.
P.E. LICENSE NUMBER 51505
655 N FRANKLIN ST., SUITE 150
TAMPA, FL 33602
PHONE (813) 620-1460
CERTIFICATE OF AUTHORIZATION NO. 696

**TOWNSEND STREET ROADWAY
AND STORMWATER IMPROVEMENTS**

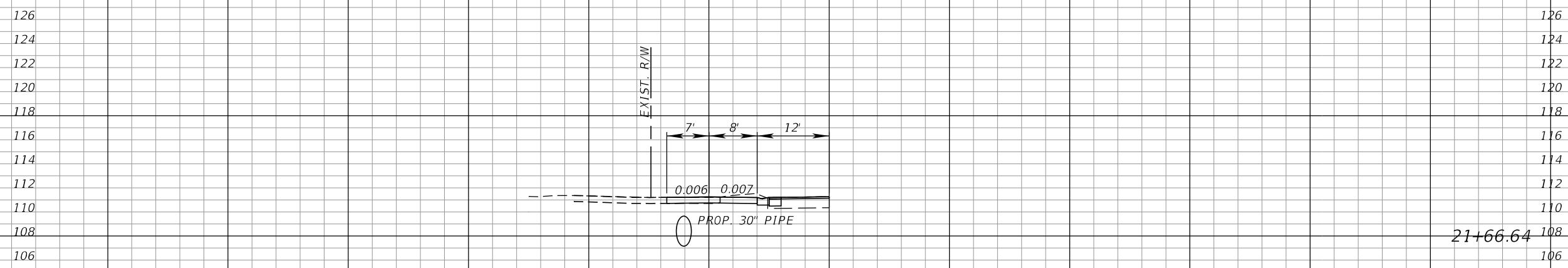
CITY OF	COUNTY
WACHULA	HARDEE

**TOWNSEND STREET
DRIVEWAY HALF SECTIONS**

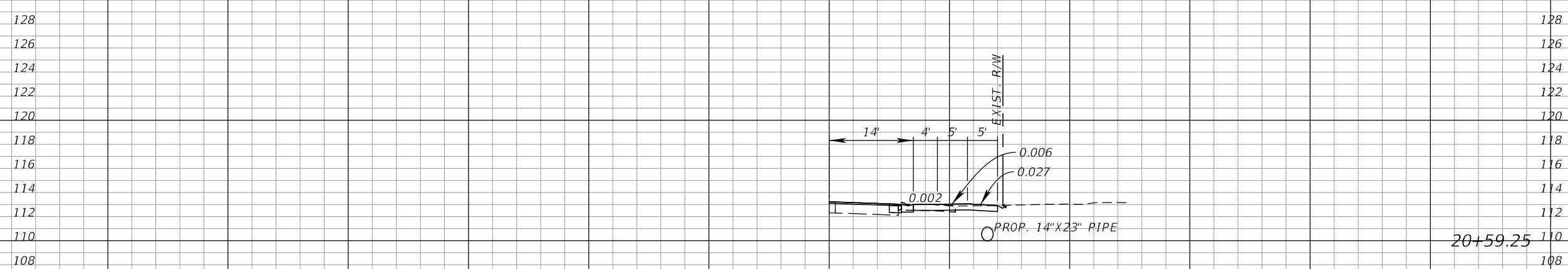
SHEET NO. 41

Approved
2020-D-191-00002
Donna Cawley
8/5/2020

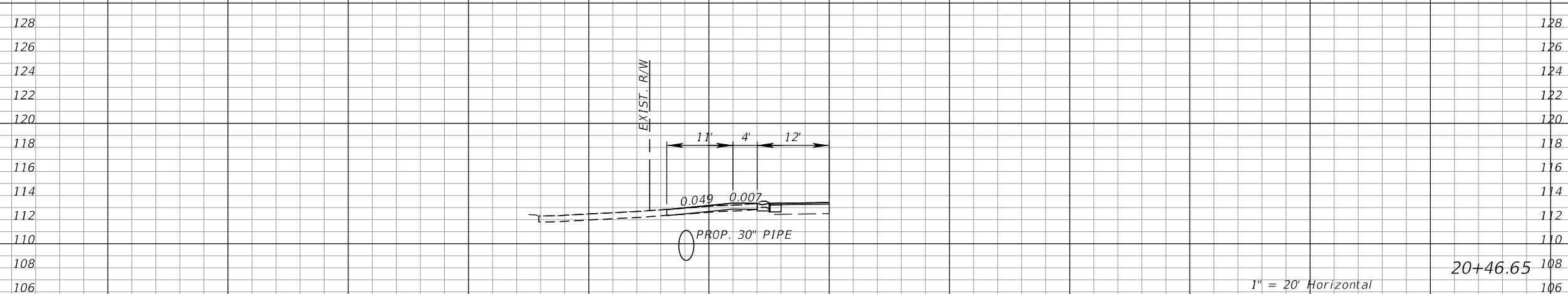
Regular Exc. Embankment
 A V A V



21+66.64



20+59.25



20+46.65

1" = 20' Horizontal
 1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

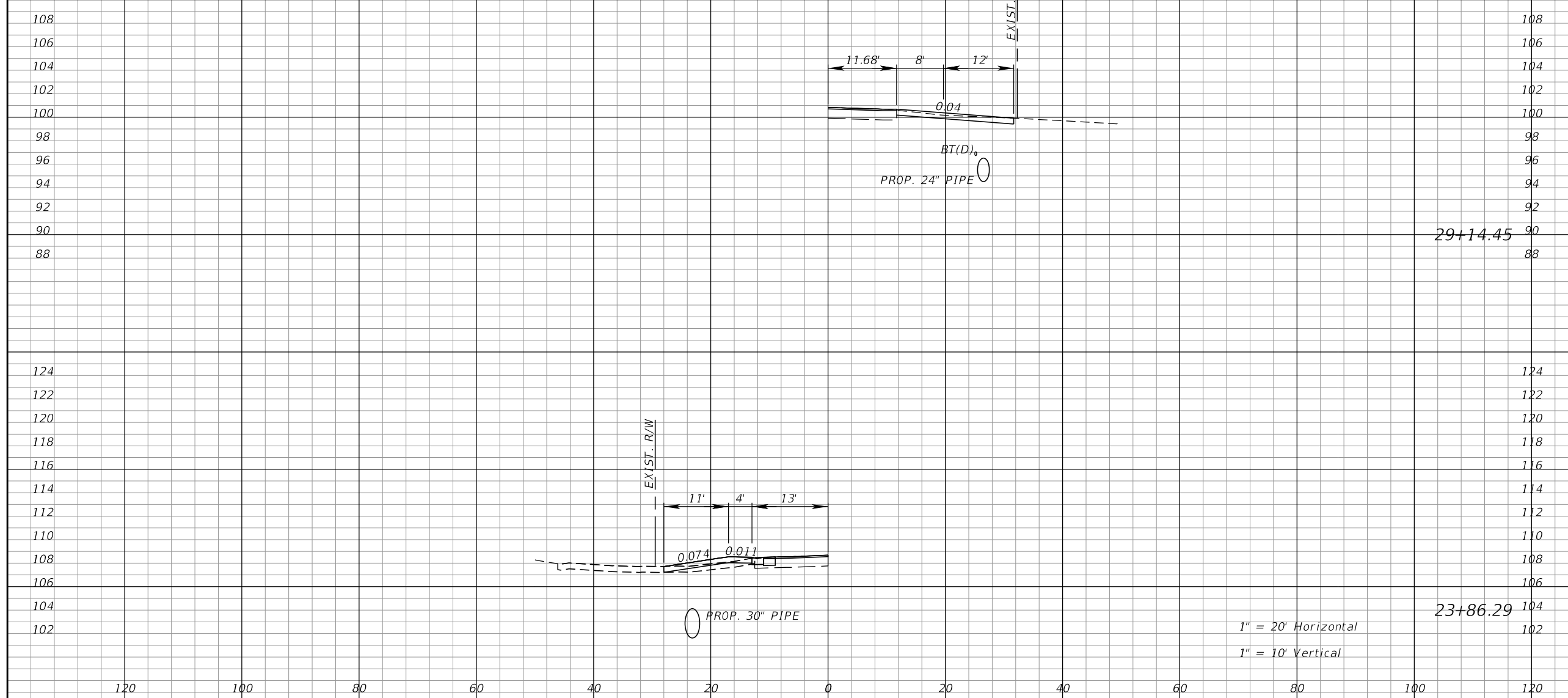
KIMLEY-HORN AND ASSOCIATES, INC.
 JOHN SEALS, P.E.
 P.E. LICENSE NUMBER 51505
 655 N FRANKLIN ST., SUITE 150
 TAMPA, FL 33602
 PHONE (813) 620-1460
 CERTIFICATE OF AUTHORIZATION NO. 696

**TOWNSEND STREET ROADWAY
 AND STORMWATER IMPROVEMENTS**
 CITY OF WACHULA COUNTY HARDEE

**TOWNSEND STREET
 DRIVEWAY HALF SECTIONS**

Approved
 2020-D-191-00002
 Donna Cawley
 8/5/2020
 SHEET NO. 42

Regular Exc.		Embankment	
A	V	A	V



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KIMLEY-HORN AND ASSOCIATES, INC.
 JOHN SEALS, P.E.
 P.E. LICENSE NUMBER 51505
 655 N FRANKLIN ST., SUITE 150
 TAMPA, FL 33602
 PHONE (813) 620-1460
 CERTIFICATE OF AUTHORIZATION NO. 696

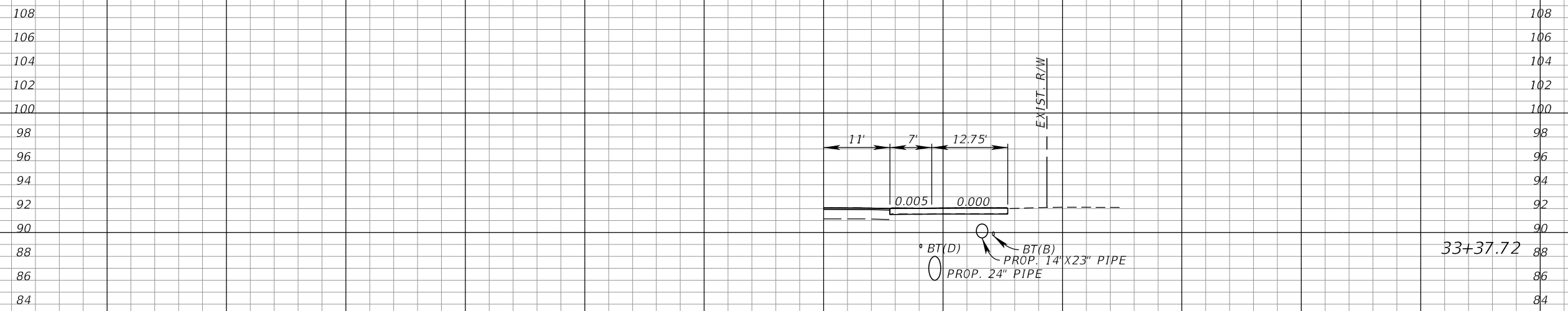
**TOWNSEND STREET ROADWAY
 AND STORMWATER IMPROVEMENTS**

CITY OF	COUNTY
WACHULA	HARDEE

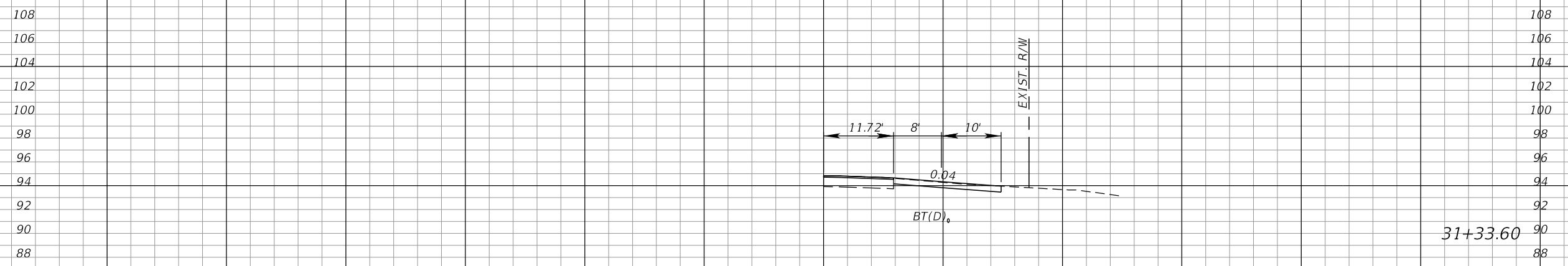
**TOWNSEND STREET
 DRIVEWAY HALF SECTIONS**

Approved
 2020-D-191-00002
 Donna Cawley
 8/5/2020
 SHEET NO. 43

Regular Exc.		Embankment	
A	V	A	V



33+37.72



31+33.60

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KIMLEY-HORN AND ASSOCIATES, INC.
 JOHN SEALS, P.E.
 P.E. LICENSE NUMBER 51505
 655 N FRANKLIN ST, SUITE 150
 TAMPA, FL 33602
 PHONE (813) 620-1460
 CERTIFICATE OF AUTHORIZATION NO. 696

**TOWNSEND STREET ROADWAY
 AND STORMWATER IMPROVEMENTS**
 CITY OF WACHULA COUNTY HARDEE

**TOWNSEND STREET
 DRIVEWAY HALF SECTIONS**

SHEET NO. 44

Approved
 2020-D-191-00002
 Donna Cawley
 8/5/2020

THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IS PROVIDED TO ASSIST IN DEVELOPING THE REQUIRED SITE SPECIFIC EROSION CONTROL PLAN AND OTHER ITEMS NECESSARY TO OBTAIN COVERAGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION GENERIC PERMIT (CGP). REFER TO THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL FOR ADDITIONAL REQUIREMENTS.

1.0 SITE DESCRIPTION:

(1.A.) NATURE OF CONSTRUCTION ACTIVITY:

THE PROJECT IS THE RECONSTRUCTION OF THE EXISTING WEST TOWNSEND STREET FROM NORTH FLORIDA AVENUE THROUGH HEARD BRIDGE ROAD IN HARDEE COUNTY. IMPROVEMENTS INCLUDING MILL AND OVERLAY EXISTING ROADWAY, ROADWAY WIDENING, CURB AND GUTTER ADDITIONS, SIDEWALK ADDITIONS, AND DRAINAGE IMPROVEMENT. THE PROJECT EXTENDS A DISTANCE OF 0.50 MILES.

(1.B.) INTENDED SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

IN THE SITE SPECIFIC EROSION AND SEDIMENT CONTROL PLAN, PREPARE A DETAILED CONSTRUCTION SCHEDULE TO INDICATE DATES OF MAJOR GRADING ACTIVITIES AND SEQUENCES OF TEMPORARY AND PERMANENT SOIL DISTURBING ACTIVITIES ON ALL PORTIONS OF THE PROJECT. FOR ADDITIONAL INFORMATION, REFER TO SECTION 4.7 OF THE NPDES CGP.

LIST OF INTENDED ACTIVITIES:

- (1.B.1.) FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS PRIOR TO CLEARING AND GRUBBING OR ANY OTHER CONSTRUCTION ACTIVITIES. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED AND PERMANENT VEGETATION IS ESTABLISHED.
- (1.B.2.) TIME CONSTRUCTION ACTIVITIES TO LIMIT IMPACT FROM SEASONAL CHANGES OR WEATHER EVENTS.
- (1.B.3.) PROVIDE POLLUTION CONTROL BY IMPLEMENTING DUST CONTROL DURING ALL PHASES OF CONSTRUCTION.
- (1.B.4.) OFFSITE RUNOFF SHOULD BE DIVERTED AWAY OR THROUGH THE CONSTRUCTION AREA, IF POSSIBLE. THIS ADDITIONAL FLOW, IF NOT DIVERTED, CAN ADD VOLUME AND SIZE TO STRUCTURAL PRACTICES, REQUIRING MORE FREQUENT MAINTENANCE AND LIMITING EFFECTIVENESS OF EROSION AND SEDIMENT CONTROLS.

(1.C.) PROJECT AREA ESTIMATES:

TOTAL SITE AREA: ACRES.
TOTAL AREA TO BE DISTURBED: ACRES.

(1.D.) RUNOFF DATA:

RUNOFF COEFFICIENTS BEFORE Cw (B), DURING Cw (D) AND AFTER Cw (A) CONSTRUCTION.

RUNOFF COEFFICIENTS FOR:
GRASSED SHOULDERS ADJACENT TO ROADWAY: C=0.35
IMPERVIOUS ROADWAYS AND PAVED SHOULDER: C=0.95
DISTURBED AREAS, EXPOSED SOIL, ETC., DURING CONSTRUCTION: C=0.40

WEIGHTED RUN-OFF COEFFICIENT:
BEFORE: Cw (B) = 0.93 DURING: Cw (D) = VARIES 0.93 TO 0.89 AFTER: Cw (A) = 0.89

THE RUN-OFF COEFFICIENT Cw (D), IS CALCULATED ASSUMING THAT THE MAXIMUM ALLOWABLE AREA OF SOIL IS DISTURBED DURING CONSTRUCTION AND THE REMAINING AMOUNT IS THE EXISTING IMPERVIOUS AND GRASSED SHOULDER AREAS.

SOIL DATA:

THE RESULTS OF THE SOIL BORINGS ALONG THE ROADWAY ARE SHOWN IN THE ROADWAY SOIL SURVEY SHEET(S). THE SHEET NUMBERS FOR THESE ARE IDENTIFIED ON THE KEY SHEET OF THESE CONSTRUCTION PLANS. IN GENERAL, THE SOILS ARE:

SOIL TYPE	HYDROLOGIC GROUP	DEPTH TO SHWE
10 - EAUGALLIE-MYAKKA SAND (60.1%)	A/D	1.0' - 1.5'
39 - ST. AUGUSTINE (39.9%)	C/D	1.0' - 1.5'

REFERENCE: USDA SOIL SURVEY OF SARASOTA COUNTY FLORIDA

OUTFALL INFORMATION:

THERE ARE FOUR OUTFALLS.

THE OUTFALLS DISCHARGE INTO SARASOTA BAY.

OUTFALL LOCATIONS: (TEMPORARY AND PERMANENT)

DESCRIPTION	LATITUDE	LONGITUDE	RECEIVING WATERBODY
(a) 43" X 55"	N 27°20' 04"	W 82°32' 46"	SARASOTA BAY
(b) 30"	N 27°20' 07"	W 82°32' 52"	SARASOTA BAY
(c) 36"	N 27°20' 05"	W 82°32' 47"	SARASOTA BAY
(d) 48"	N 27°20' 04"	W 82°32' 45"	SARASOTA BAY

THIS FACILITY DOES NOT DISCHARGE TO WATERS LISTED ON THE ADOPTED FDEP VERIFIED LIST OR ADOPTED TMDL FOR IMPAIRMENT DUE TO TOTAL SUSPENDED SOLID, TURBIDITY, NUTRIENTS, DISSOLVED OXYGEN, OR FECAL COLIFORM.

WETLAND AND/OR SURFACE WATER IMPACTS SHALL BE LIMITED TO THE AREAS DESCRIBED IN THE APPROVED PERMITS FOR THE PROJECT.

(1.E.) SITE MAP:

THE SITE MAP SHALL BE COMPRISED OF THE CONSTRUCTION PLANS AND THE CONTRACTOR'S SITE-SPECIFIC EROSION AND SEDIMENT CONTROL PLAN.

(1.F.) STORMWATER MANAGEMENT (EXISTING/PROPOSED)

(1.F.1.) EXISTING DRAINAGE FLOWS ARE TYPICALLY FLOWING FROM EAST TO WEST TOWARD THE BAY. THE CROSS SECTION SHEETS AND PLAN-PROFILE SHEETS PROVIDE THE APPROXIMATE SLOPE, AREAS OF SOIL DISTURBANCE AND AREAS TO BE STABILIZED. UNLESS OTHERWISE APPROVED BY THE PERMITS, THE CONSTRUCTION ACTIVITIES SHALL NOT MODIFY OR AFFECT THE EXISTING OFFSITE FLOW PATTERNS.

(1.F.2.) THE PROPOSED SEDIMENT BASINS, CONTAINMENT SYSTEMS AND/OR STORMWATER MANAGEMENT FACILITIES SHALL BE CONSTRUCTED DURING THE INITIAL PHASE OF CONSTRUCTION AND USED DURING CONSTRUCTION OF THE ROADWAY. THE OUTFALL STRUCTURES ARE TO BE PROTECTED WHEN TEMPORARY SEDIMENT BASINS, CONTAINMENT SYSTEMS OR PERMANENT STORMWATER MANAGEMENT FACILITIES ARE USED FOR EROSION AND SEDIMENT CONTROL TO PREVENT DOWNSTREAM SEDIMENTATION.

REVISIONS				KIMLEY-HORN AND ASSOCIATES, INC. JOHN SEALS, P.E. P.E. LICENSE NUMBER 51505 655 N FRANKLIN ST, SUITE 150 TAMPA, FL 33602 PHONE (813) 620-1460 CERTIFICATE OF AUTHORIZATION NO. 696	TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS		STORMWATER POLLUTION PREVENTION PLAN (1)	SHEET NO. 45
DATE	DESCRIPTION	DATE	DESCRIPTION		CITY OF	COUNTY		
					WAUCHULA	HARDEE		

Approved
2020-D-191-0002
Dona Cawley
8/5/2020

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

2. CONTROLS:

(2.A.) SEDIMENT AND EROSION CONTROLS

(2.A.1.) PER SECTION 5.4 OF THE NPDES CGP, STABILIZATION SHALL TAKE PLACE AS SOON AS PRACTICAL IN PORTIONS OF THE PROJECT WHERE CONSTRUCTION ACTIVITIES HAVE CEASED, BUT NO LATER THAN 7 DAYS AFTER ANY CONSTRUCTION ACTIVITY CEASES EITHER TEMPORARILY OR PERMANENTLY.

(2.A.2.) SEDIMENT BARRIERS SHALL BE USED AROUND THE PERIMETER OF STOCKPILE AREAS.

(2.A.3.) STRUCTURAL PRACTICES

IN THE SITE SPECIFIC EROSION AND SEDIMENT CONTROL PLAN, DESCRIBE THE PROPOSED STRUCTURAL PRACTICES TO CONTROL OR TRAP SEDIMENT AND OTHERWISE PREVENT THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. SEDIMENT CONTROLS SHALL BE IN PLACE BEFORE DISTURBING SOIL UPSTREAM OF THE CONTROL. THE STRUCTURAL PRACTICES MAY INCLUDE THE FOLLOWING, AS APPROVED BY THE ENGINEER:

TEMPORARY DEVICES:

- * SILT FENCE
- * STAKED TURBIDITY BARRIERS
- * SOIL TRACKING PREVENTION DEVICES AT CONSTRUCTION ENTRANCES/EXITS
- * FLOATING TURBIDITY BARRIERS
- * INLET PROTECTION SYSTEMS INCLUDING SYNTHETIC BALES AND SANDBAGS
- * SEDIMENT BASIN/CONTAINMENT SYSTEMS
- * CHEMICAL TREATMENTS SUCH AS POLYACRYLAMIDES AND ALUM

PERMANENT:

- * STORMWATER PONDS
- * SOD (MAY ALSO BE USED FOR TEMPORARY CONTROLS)
- * VELOCITY DISSIPATION DEVICES SUCH AS RIPRAP OR OTHERS

(2.B.) WATER QUALITY MONITORING

(2.B.1.) WATER QUALITY MONITORING SHALL BE CONDUCTED IN ACCORDANCE WITH THE SPECIAL CONDITIONS OF ANY ENVIRONMENTAL PERMIT, OR UPON THE OBSERVATION THAT WATER QUALITY STANDARDS MAY BE VIOLATED BY CONSTRUCTION ACTIVITIES. MONITORING LOCATIONS MAY BE SPECIFIED IN THE ENVIRONMENTAL PERMIT OR MAY BE DESIGNATED BY AND APPROVED BY THE ENGINEER.

(2.B.2.) THE ENGINEER WILL BE RESPONSIBLE FOR MONITORING ANY ACTIVITIES FOR VIOLATION OF WATER QUALITY STANDARDS AS THEY RELATE TO TURBIDITY (NO GREATER THAN 29 NEPHELOMETRIC TURBIDITY UNITS (NTUs) ABOVE BACKGROUND OR GREATER THAN 0 NTUs ABOVE BACKGROUND FOR DIRECT DISCHARGES TO OUTSTANDING FLORIDA WATERS (OFWs)).

(2.B.3.) IF WATER QUALITY STANDARDS ARE VIOLATED, CONSTRUCTION SHALL BE STOPPED IMMEDIATELY. THE ENVIRONMENTAL PERMIT CONDITIONS FOLLOWED AND EROSION AND SEDIMENT CONTROL DEVICES REEVALUATED AND APPROVED BY THE ENGINEER PRIOR TO ANY CONTINUATION OF ACTIVITY. MONITORING ACTIVITIES AND TURBIDITY READINGS SHALL BE RECORDED ON THE CONSTRUCTION INSPECTION REPORT AND CONTINUED UNTIL TURBIDITY READINGS FALL BELOW AN ACCEPTABLE LEVEL (LESS THAN 29 NTUs ABOVE BACKGROUND OR LESS THAN 0 NTUs ABOVE BACKGROUND FOR DIRECT DISCHARGES TO OFWs).

(2.B.4.) WATER QUALITY MONITORING MAY BE CONDUCTED DURING ANY PHASE OF CONSTRUCTION AS DIRECTED BY THE ENGINEER.

(2.C.) DEWATERING CONTROLS

THE SITE SPECIFIC EROSION AND SEDIMENT CONTROL PLAN SHALL INCLUDE A DESCRIPTION OF THE BMPs THAT WILL BE USED TO ENSURE THAT DISCHARGES OF NONCONTAMINATED GROUND WATER FROM DEWATERING OPERATIONS DO NOT CAUSE OR CONTRIBUTE TO VIOLATIONS OF STATE WATER QUALITY STANDARDS.

(2.D.) OTHER CONTROLS

(2.D.1.) THE SITE SPECIFIC EROSION AND SEDIMENT CONTROL PLAN SHALL IDENTIFY CHEMICAL AND FUEL STORAGE AREAS, MEANS OF MINIMIZING EXPOSURE TO STORMWATER, AND SPILL PREVENTION.

(2.D.2.) OFFSITE VEHICLE TRACKING & GENERATION OF DUST

IN THE SITE SPECIFIC EROSION AND SEDIMENT CONTROL PLAN, DESCRIBE THE PROPOSED METHODS FOR MINIMIZING OFFSITE VEHICLE TRACKING OF SEDIMENTS AND GENERATING DUST. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

(2.D.2.a.) LOADED HAUL TRUCKS ARE TO BE COVERED BY A TARPULIN.

(2.D.2.b.) REMOVING EXCESS DIRT FROM ROADS DAILY.

(2.D.2.c.) USING WATER TRUCKS DURING DUST-GENERATING ACTIVITIES.

(2.D.2.d.) SEDIMENT CONTROL MAY BE ACCOMPLISHED BY USING STREET OR VACUUM SWEEPERS.

3. MAINTENANCE

MAINTAIN AND REPAIR ALL EROSION AND SEDIMENT CONTROL DEVICES AND REMOVE EROSION AND SEDIMENT CONTROL DEVICES WHEN NOTICE OF TERMINATION IS MAILED. REMOVE AND PROPERLY DISPOSE OF SEDIMENT BUILDUP THROUGH THE LIFE OF THE INSTALLED EROSION AND SEDIMENT CONTROL DEVICES.

(3.A.) IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF NOTICE.

(3.B.) SEDIMENT BARRIERS SHALL BE REPLACED WHEN IT IS NO LONGER EFFECTIVE OR AS DIRECTED BY THE ENGINEER.

(3.C.) STABILIZED CONSTRUCTION ENTRANCES SHALL BE MAINTAINED TO PREVENT CLOGGING OF ROCK BEDDING WHICH MAY IMPEDE THE USEFULNESS OF THE STRUCTURE.

(3.D.) REMOVE SEDIMENT FROM SEDIMENT BASINS WHEN IT BECOMES MORE THAN HALF THE AVAILABLE VOLUME.

4. INSPECTION, TRACKING, AND REPORTING

INSTALL AND MAINTAIN RAIN GAUGES ON THE PROJECT SITE AND RECORD RAINFALL.

(4.A.) SUBMIT A WEEKLY REPORT TO THE DEPARTMENT DOCUMENTING THE DAILY INSPECTIONS AND MAINTENANCE OR REPAIRS TO THE EROSION AND SEDIMENT CONTROL DEVICES. MAINTAIN ALL REQUIRED REPORTS AND COMPLETE ALL SWPPP INSPECTION FORMS.

(4.B.) PREPARATION OF ALL REPORTS OF INSPECTION, MAINTENANCE AND REPAIRS REQUIRED FOR THE CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION, SHALL BE INCLUDED IN THE INDIVIDUAL COSTS OF THE EROSION AND SEDIMENT CONTROL DEVICES.

(4.C.) USE THE SWPPP CONSTRUCTION INSPECTION REPORT FORM # 650-040-03, FOR DAILY INSPECTIONS.

Approved
2020-D-191-0002
Donna Cawley
8/5/2020
SHEET NO. 46

REVISIONS				KIMLEY-HORN AND ASSOCIATES, INC. JOHN SEALS, P.E. P.E. LICENSE NUMBER 51505 655 N FRANKLIN ST, SUITE 150 TAMPA, FL 33602 PHONE (813) 620-1460 CERTIFICATE OF AUTHORIZATION NO. 696	TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS		STORMWATER POLLUTION PREVENTION PLAN (2)	SHEET NO. 46
DATE	DESCRIPTION	DATE	DESCRIPTION		CITY OF	COUNTY		
					WAUCHULA	HARDEE		

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

5. NON-STORMWATER DISCHARGES

THE SITE SPECIFIC EROSION AND SEDIMENT CONTROL PLAN SHALL IDENTIFY ALL ANTICIPATED NON-STORMWATER DISCHARGES AND DESCRIBE THE PROPOSED MEASURES TO PREVENT POLLUTION. THE PLAN SHALL INCLUDE PROCEDURES FOR SPILL CONTAINMENT, REPORTING AND RESPONSES. THE PLAN SHALL SPECIFY WHAT MANAGEMENT PRACTICES AND CONTAINMENT METHODS WILL BE USED TO PREVENT POTENTIAL POLLUTANTS (FUEL, LUBRICANTS, HERBICIDES, ETC.) FROM SPILLING ONTO THE SOIL OR INTO THE SURFACE WATERS. IF A SPILL DOES OCCUR OR IF CONTAMINATED SOIL OR GROUNDWATER IS ENCOUNTERED, CONTACT THE DISTRICT CONTAMINATION IMPACT COORDINATOR AT 863-519-2300 AND THE ENGINEER. IF A RELEASE CONTAINING HAZARDOUS SUBSTANCES OCCURS, CONTACT THE FLORIDA STATE WATCH OFFICE AT 800-320-0519 OR 850-413-9911 PER SECTION 9.2 OF THE CGP.

Approved
2020-D-191-0002
Donna Cawley
8/5/2020
SHEET NO. 47

REVISIONS				KIMLEY-HORN AND ASSOCIATES, INC. JOHN SEALS, P.E. P.E. LICENSE NUMBER 51505 655 N FRANKLIN ST, SUITE 150 TAMPA, FL 33602 PHONE (813) 620-1460 CERTIFICATE OF AUTHORIZATION NO. 696	TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS		STORMWATER POLLUTION PREVENTION PLAN (3)	SHEET NO. 47
DATE	DESCRIPTION	DATE	DESCRIPTION		CITY OF	COUNTY		
					WAUCHULA	HARDEE		

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CONTROL STRUCTURE - S-505

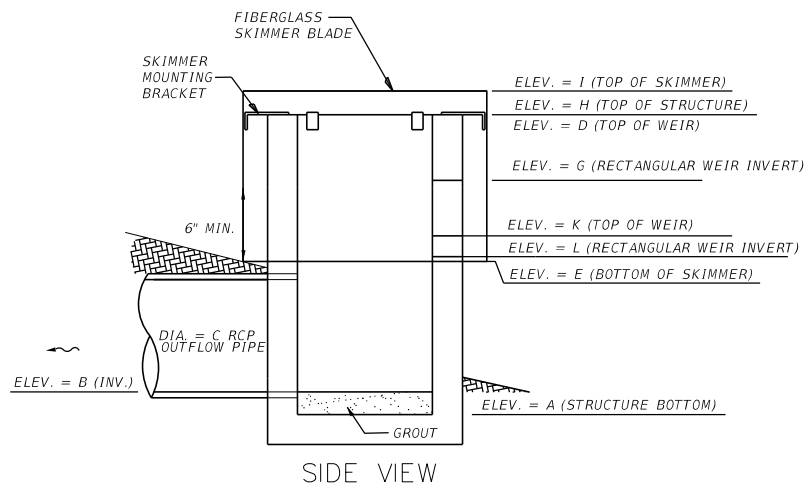
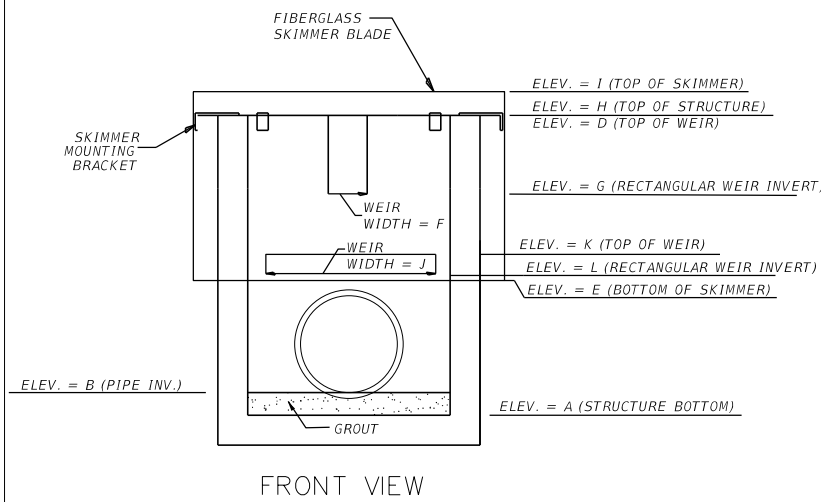
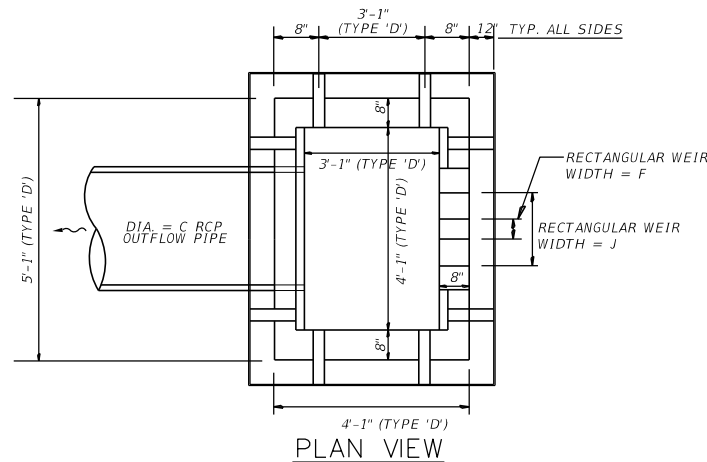
INLET TYPES PER F.D.O.T. INDEX #232

NOTE:
 1. CONTRACTOR IS TO GRADE AROUND CONTROL STRUCTURE TO ALLOW FOR 6" MINIMUM BETWEEN BOTTOM OF SKIMMER AND SLOPE OR BOTTOM OF POND.

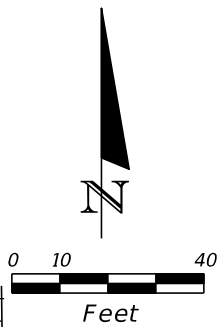
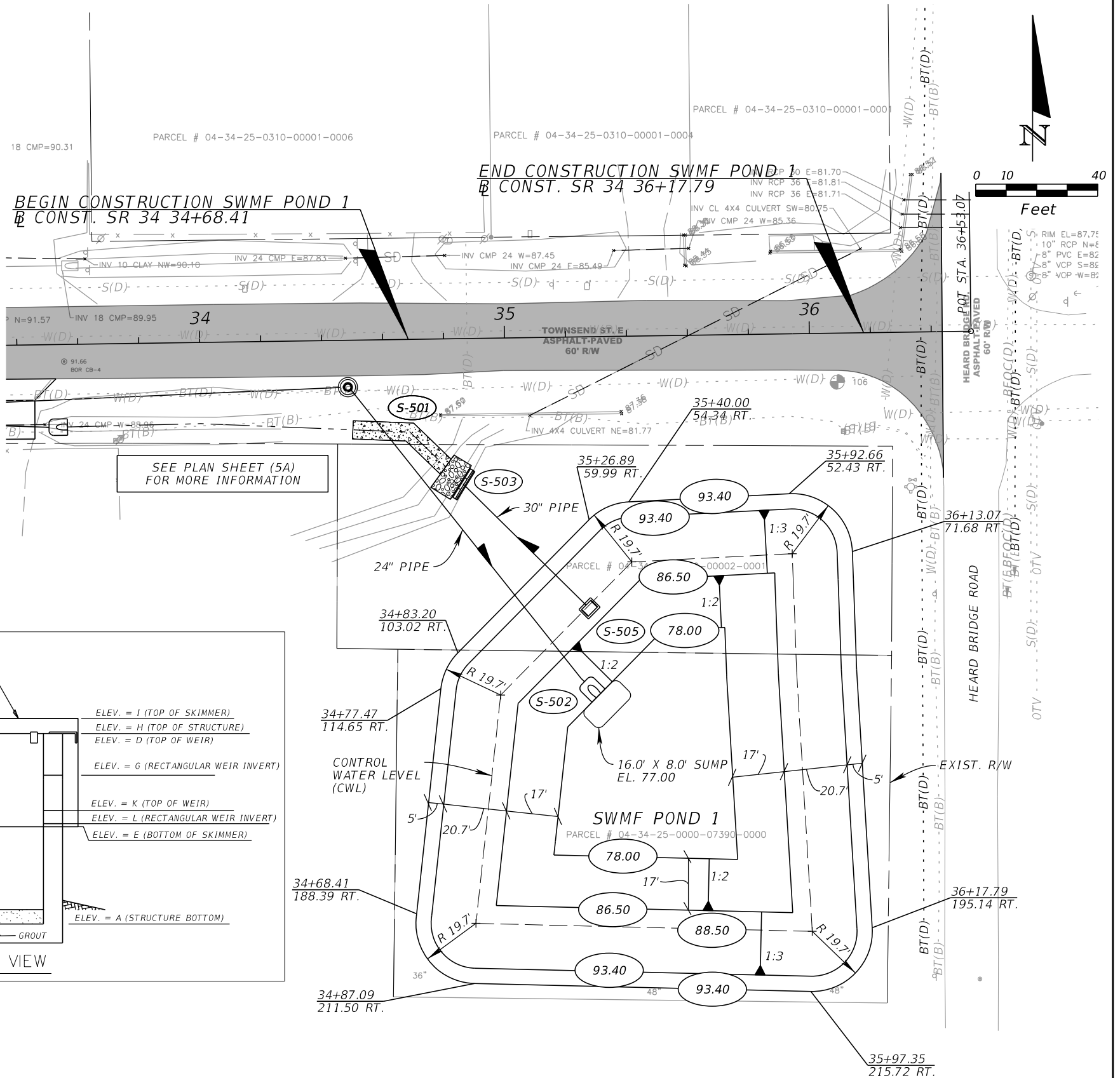
2. A CONCRETE PAD SHALL BE INSTALLED UNDER THE SKIMMER WHERE SEPARATION BETWEEN THE SKIMMER AND POND BOTTOM/BERM IS LESS THAN 12". THE CONCRETE PAD SHALL EXTEND FROM THE CONTROL STRUCTURE TO 12" BEYOND THE SKIMMER.

A =	82.85 FT
B =	83.35 FT
C =	30 INCH
D =	93.2 FT
E =	88.0 FT
F =	18 INCH
G =	92.5 FT
H =	93.2 FT
I =	93.7 FT
J =	36 INCH
K =	89.0 FT
L =	88.5 FT

STRUCTURE TYPE
 TYPE 'D' INLET



SWMF POND 1 DATA		
DESCRIPTION	ELEV.	AREA (ac.)
OUTSIDE TOB	93.40	0.42
CWL	88.50	0.26
POND BOTTOM	78.00	0.08
10yr/24hr DHW	90.90	0.36



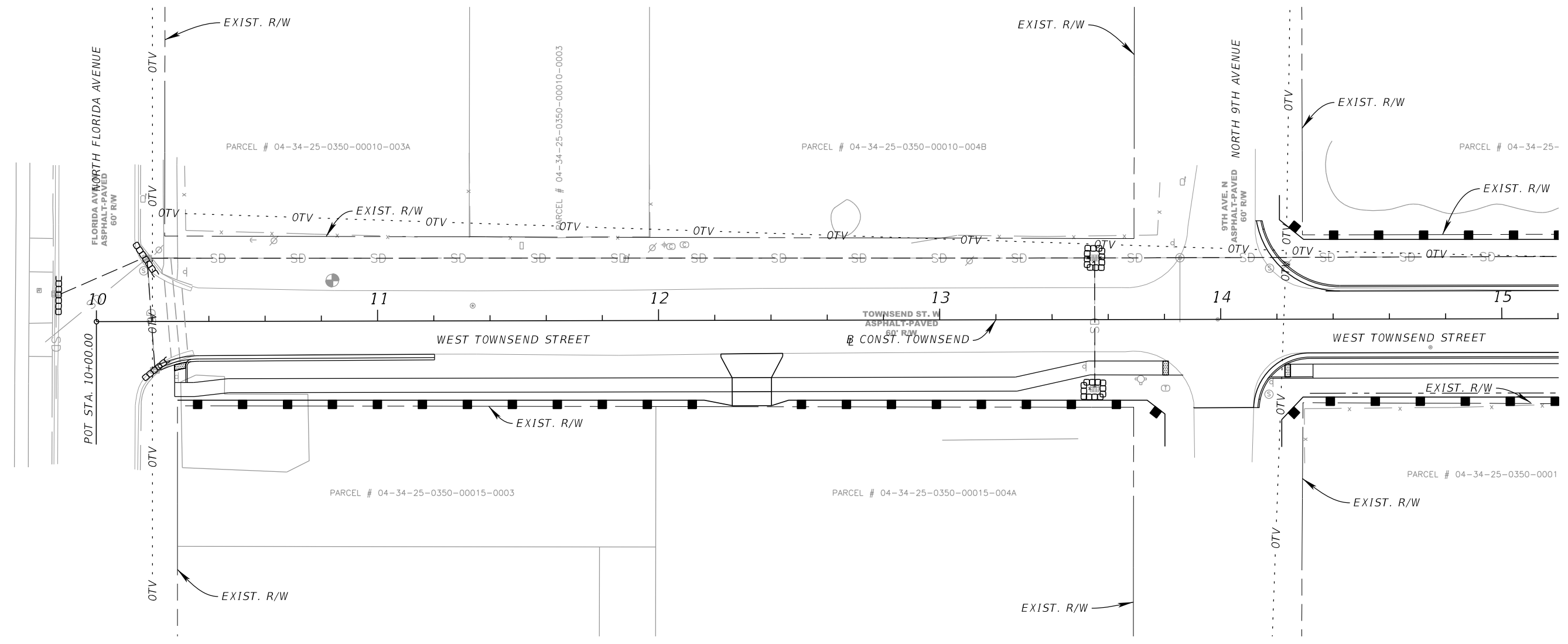
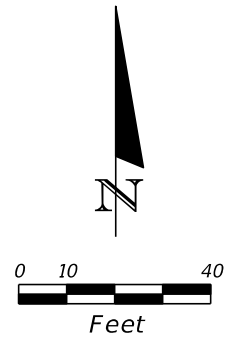
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KIMLEY-HORN AND ASSOCIATES, INC.
 JOHN SEALS, P.E.
 P.E. LICENSE NUMBER 51505
 655 N FRANKLIN ST, SUITE 150
 TAMPA, FL 33602
 PHONE (813) 620-1460
 CERTIFICATE OF AUTHORIZATION NO. 696

TOWNSEND STREET ROADWAY
 AND STORMWATER IMPROVEMENTS
 CITY OF WAUCHULA
 COUNTY HARDEE

Approved
 2020-D-191-0002
 Donna Cawley
 8/5/2020
STORMWATER MANAGEMENT FACILITY PLAN SHEET
 SHEET NO. 48

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



SURFACE WATER IMPACTS	
DESCRIPTION	AREA (ac.)
PERMANENT IMPACTS	0.031
TEMPORARY IMPACTS	0.033

LEGEND

- SEDIMENT BARRIER
- INLET PROTECTION
- SURFACE WATER PERMANENT IMPACTS
- SURFACE WATER TEMPORARY IMPACTS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KIMLEY-HORN AND ASSOCIATES, INC.
 JOHN SEALS, P.E.
 P.E. LICENSE NUMBER 51505
 655 N FRANKLIN ST., SUITE 150
 TAMPA, FL 33602
 PHONE (813) 620-1460
 CERTIFICATE OF AUTHORIZATION NO. ___

TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS

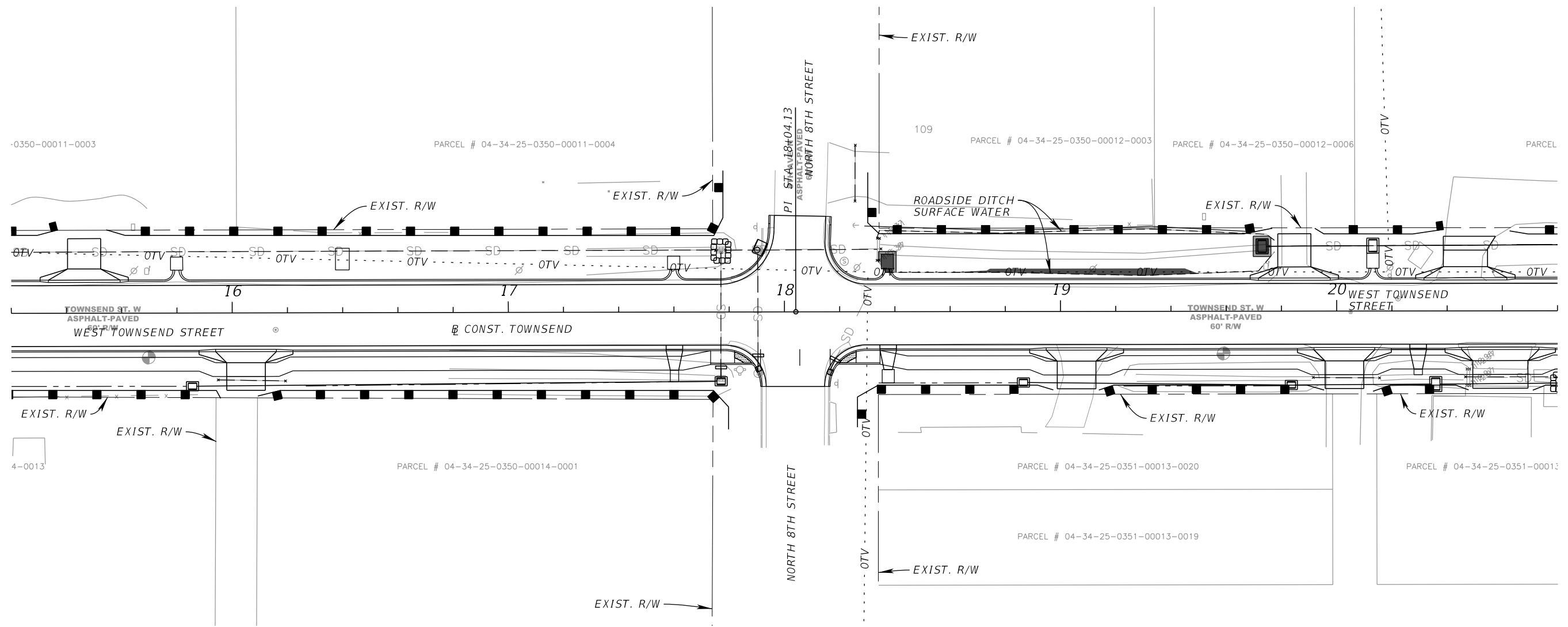
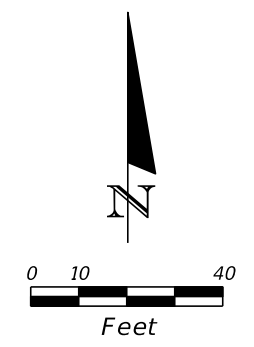
CITY OF	COUNTY
WAUCHULA	HARDEE

EROSION CONTROL AND SURFACE WATER IMPACT PLAN (1)

Approved
 2020-D-191-0002
 Donna Cawley
 8/5/2020

SHEET NO. 49

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LEGEND

- SEDIMENT BARRIER
- INLET PROTECTION
- SURFACE WATER PERMANENT IMPACTS
- SURFACE WATER TEMPORARY IMPACTS

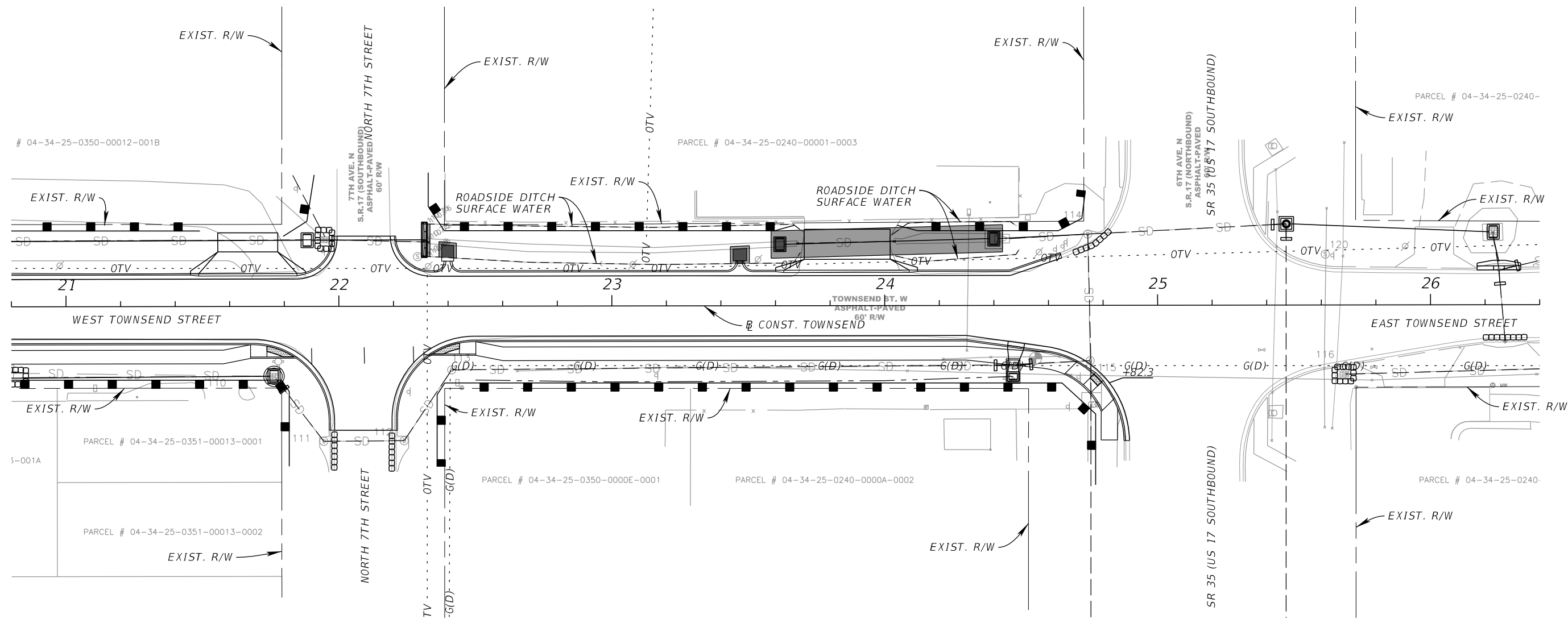
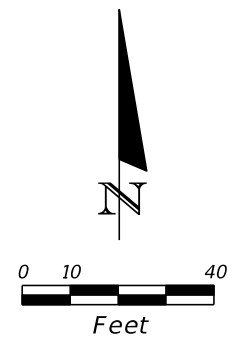
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KIMLEY-HORN AND ASSOCIATES, INC.
 JOHN SEALS, P.E.
 P.E. LICENSE NUMBER 51505
 655 N FRANKLIN ST, SUITE 150
 TAMPA, FL 33602
 PHONE (813) 620-1460
 CERTIFICATE OF AUTHORIZATION NO. ---

TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS
 CITY OF WAUCHULA COUNTY HARDEE

EROSION CONTROL AND SURFACE WATER IMPACT PLAN (2)
 SHEET NO. 50
 Approved 2020-D-191-0002
 Donna Cawley
 8/5/2020

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LEGEND

- SEDIMENT BARRIER
- INLET PROTECTION
- SURFACE WATER PERMANENT IMPACTS
- SURFACE WATER TEMPORARY IMPACTS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KIMLEY-HORN AND ASSOCIATES, INC.
 JOHN SEALS, P.E.
 P.E. LICENSE NUMBER 51505
 655 N FRANKLIN ST, SUITE 150
 TAMPA, FL 33602
 PHONE (813) 620-1460
 CERTIFICATE OF AUTHORIZATION NO. ---

**TOWNSEND STREET ROADWAY
 AND STORMWATER IMPROVEMENTS**

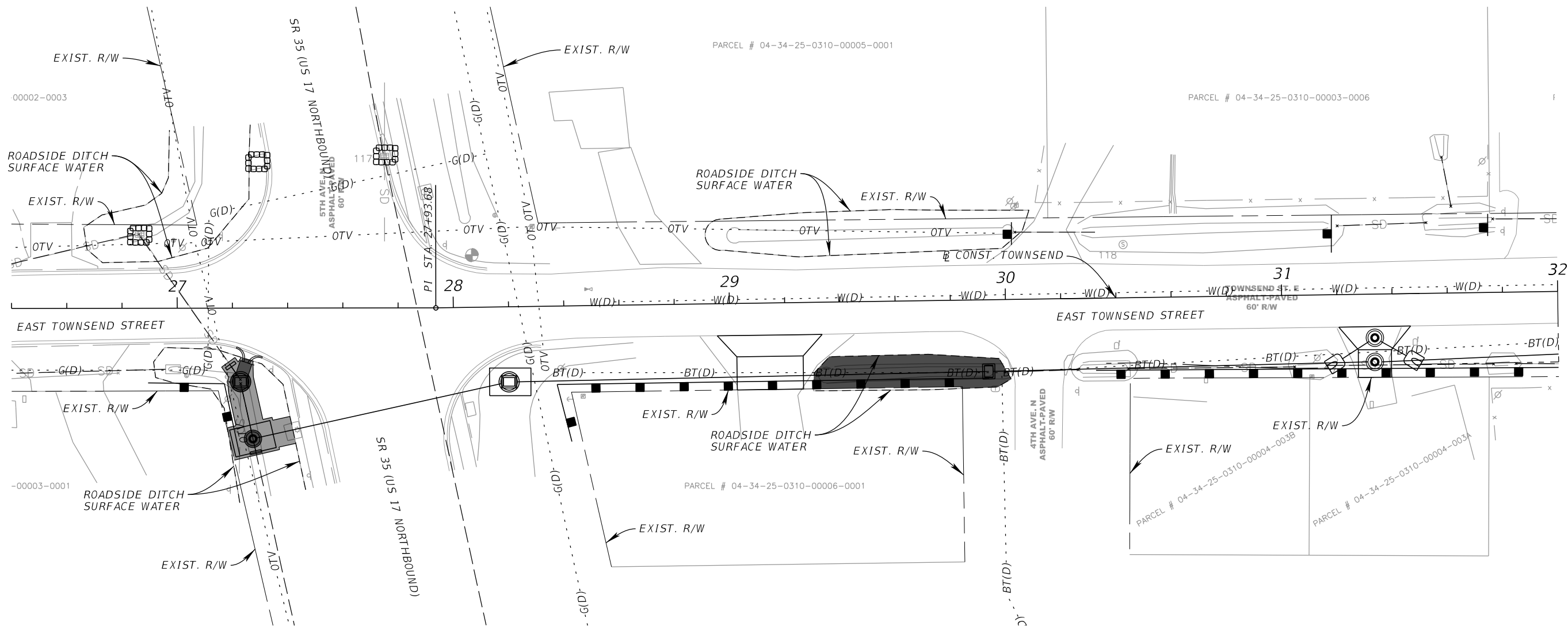
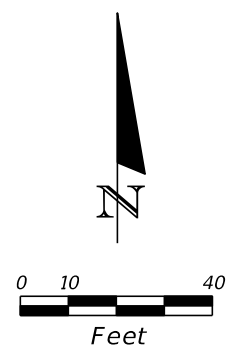
CITY OF	COUNTY
WAUCHULA	HARDEE

**EROSION CONTROL
 AND SURFACE WATER
 IMPACT PLAN (3)**

Approved
 2020-D-191-0002
 Donna Cawley
 8/5/2020

SHEET NO. 51

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LEGEND

- SEDIMENT BARRIER
- INLET PROTECTION
- SURFACE WATER PERMANENT IMPACTS
- SURFACE WATER TEMPORARY IMPACTS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KIMLEY-HORN AND ASSOCIATES, INC.
 JOHN SEALS, P.E.
 P.E. LICENSE NUMBER 51505
 655 N FRANKLIN ST., SUITE 150
 TAMPA, FL 33602
 PHONE (813) 620-1460
 CERTIFICATE OF AUTHORIZATION NO. ___

**TOWNSEND STREET ROADWAY
 AND STORMWATER IMPROVEMENTS**

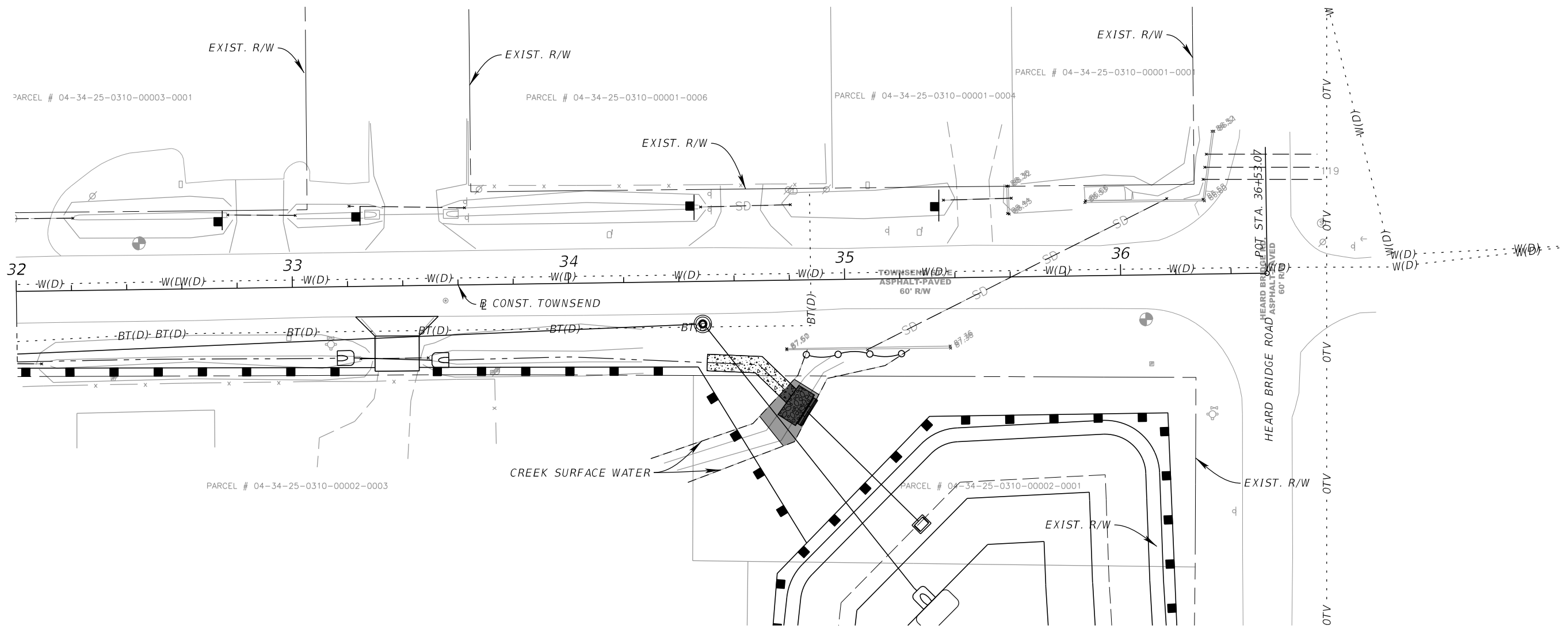
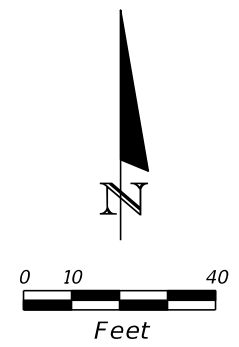
CITY OF	COUNTY
WAUCHULA	HARDEE

**EROSION CONTROL
 AND SURFACE WATER
 IMPACT PLAN (4)**

Approved
 2020-D-191-0002
 Donna Cawley
 8/5/2020

SHEET NO. 52

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



LEGEND

- FLOATING TURBIDITY BARRIER
- SEDIMENT BARRIER
- INLET PROTECTION
- SURFACE WATER PERMANENT IMPACTS
- SURFACE WATER TEMPORARY IMPACTS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KIMLEY-HORN AND ASSOCIATES, INC.
 JOHN SEALS, P.E.
 P.E. LICENSE NUMBER 51505
 655 N FRANKLIN ST, SUITE 150
 TAMPA, FL 33602
 PHONE (813) 620-1460
 CERTIFICATE OF AUTHORIZATION NO. ---

**TOWNSEND STREET ROADWAY
 AND STORMWATER IMPROVEMENTS**

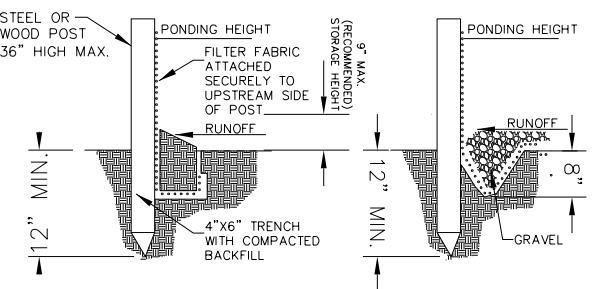
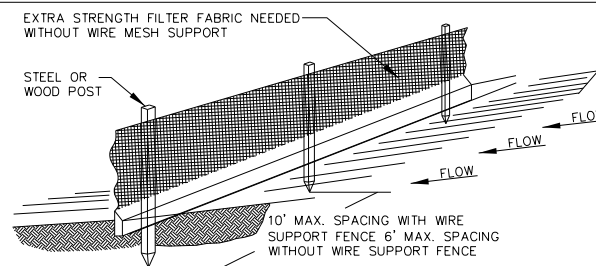
CITY OF	COUNTY
WAUCHULA	HARDEE

**EROSION CONTROL
 AND SURFACE WATER
 IMPACT PLAN (5)**

Approved
 2020-D-191-0002
 Donna Cawley
 8/5/2020

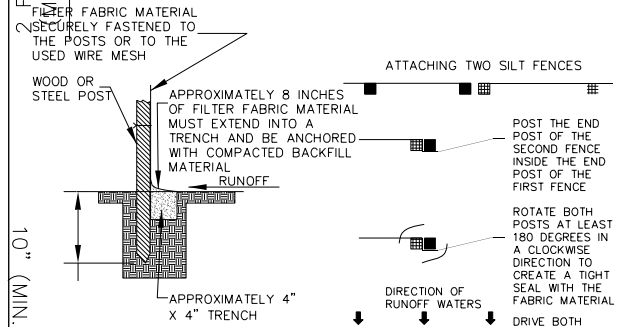
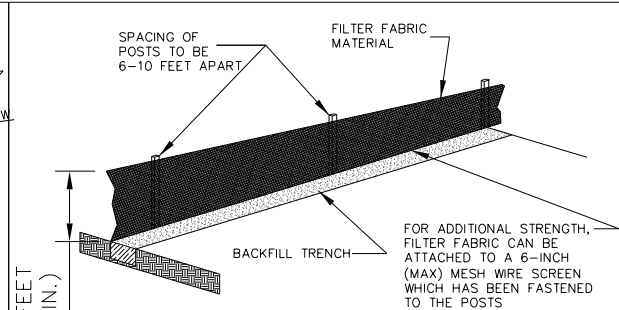
SHEET NO. 53

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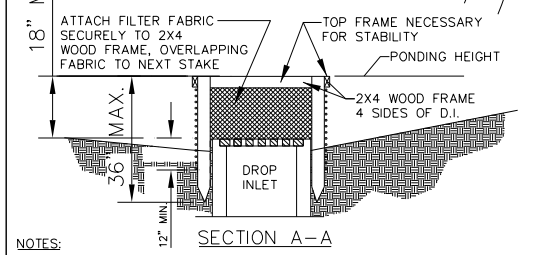
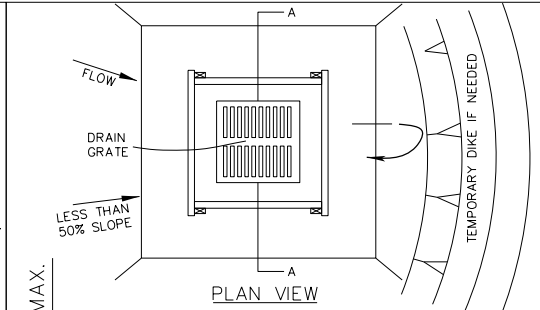
- NOTE:**
1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
 2. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
 3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

SILT FENCE DETAIL



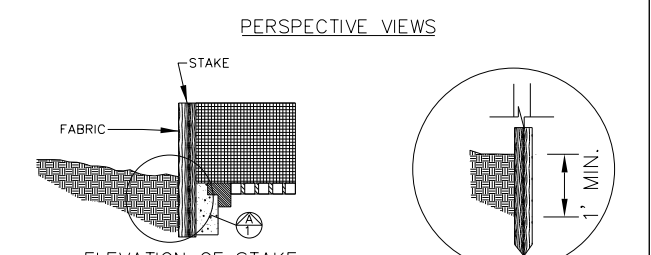
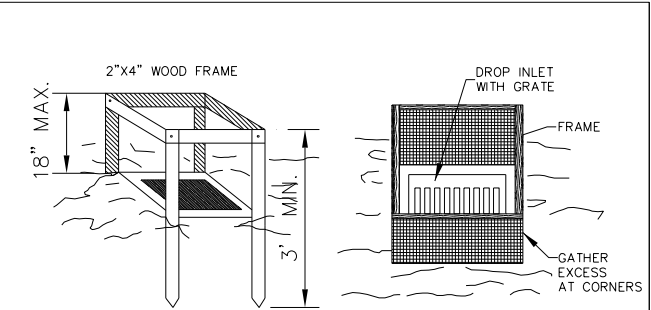
- NOTE:**
1. POST THE END POST OF THE SECOND FENCE INSIDE THE END POST OF THE FIRST FENCE
 2. ROTATE BOTH POSTS AT LEAST 180 DEGREES IN A CLOCKWISE DIRECTION TO CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL
 3. DRIVE BOTH POSTS 18 INCHES INTO THE GROUND AND BURY FLAP

SILT FENCE INSTALLATION DETAIL



- NOTES:**
1. DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS
 2. USE 2X4 OR EQUIVALENT METAL STAKES, (3' MIN. LENGTH)
 3. INSTALL 2X4 TOP WOOD FRAME TO INSURE STABILITY.
 4. THE TOP OF THE FRAME (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BY PASSING THE INLET. A TEMPORARY DIKE MAY BE NECESSARY ON THE DOWNSLOPE SIDE OF THE STRUCTURE.

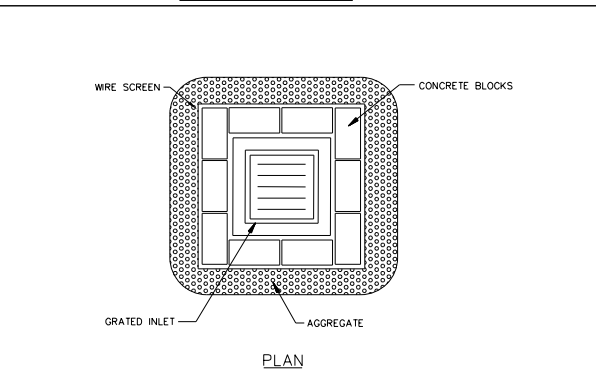
FILTER FABRIC DROP INLET SEDIMENT BARRIER



ELEVATION OF STAKE AND FABRIC ORIENTATION

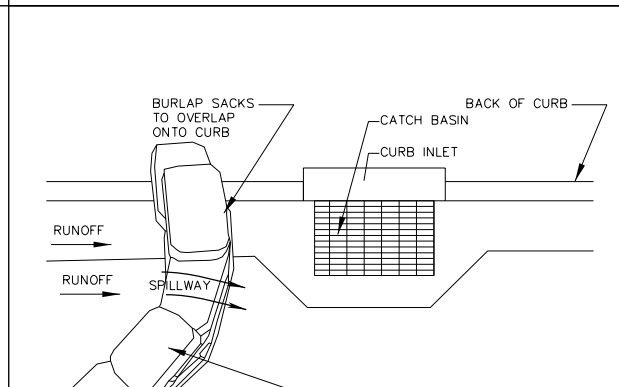
SPECIFIC APPLICATION:

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS IS A RELATIVELY FLAT AREA (SLOPE NO GREATER THAN 5%) WHERE THE INLET SHEET OR OVERLAND FLOWS (NOT EXCEEDING 1 C.F.S.) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.



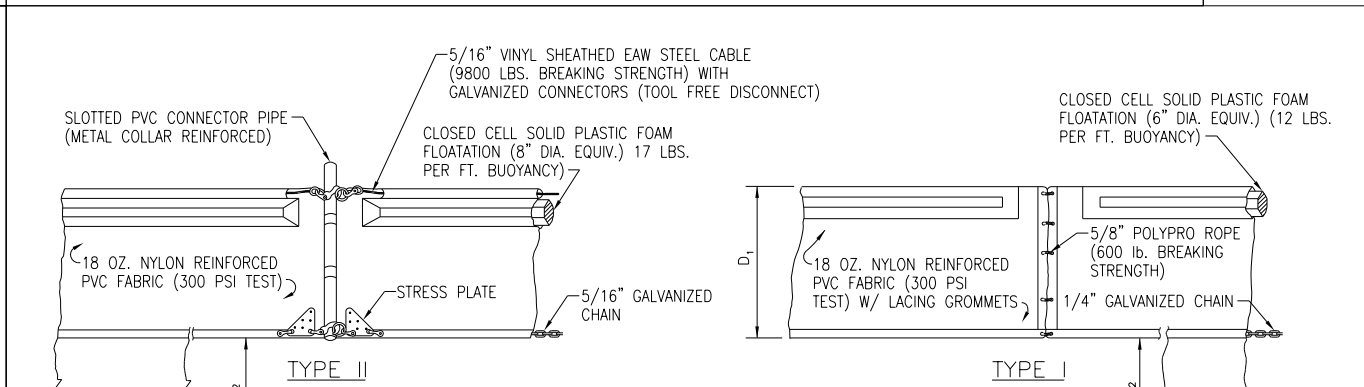
- NOTE:**
1. PLACE CONCRETE BLOCKS IN A SINGLE ROW AROUND PERIMETER OF INLET ON THEIR SIDES, WITH ENDS OF ADJACENT BLOCKS ABUTTING
 2. HEIGHT OF BARRIER VARIES. USE STACKS OF 4-INCH, 8-INCH, OR 12" BLOCKS. MIN. HEIGHT OF BARRIER 12" AND MAX. HEIGHT OF 24"
 3. PLACE HARDWARE CLOTH/WIRE MESH W/ MAX. 1/2" OPENINGS OVER VERTICAL FACE OF CONCRETE BLOCKS.
 4. THE AGGREGATE SHALL BE ANY NON-ERODIBLE MATERIAL SUCH AS LOOSE ROCK, BROKEN CONCRETE THAT WILL SLOW THE FLOW OF THE WATER AND ALLOW IT TO FILTER THROUGH AND OVER THE MATERIAL BEFORE ENTERING THE INLET.

BLOCK AND AGGREGATE INLET SEDIMENT DEVICE



- NOTE:**
1. PLACE CURB TYPE SEDIMENT BARRIERS ON GENTLY SLOPING STREET SEGMENTS, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
 2. SANDBAGS OF EITHER BURLAP OR WOVEN 'GEOTEXTILE' FABRIC, ARE FILLED WITH GRAVEL LAYERED AND PACKED TIGHTLY.
 3. LEAVE A ONE SANDBAG GAP IN THE TOP ROW TO PROVIDE A SPILLWAY FOR OVERFLOW.
 4. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

CURB AND GUTTER SEDIMENT BARRIER



- NOTE:**
- D₁ = 5' STD. (SINGLE PANEL FOR DEPTHS 5' OR LESS).
 D₂ = 5' STD. (ADDITIONAL PANEL FOR DEPTHS 5').
 CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET.
 TWO (2) PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALLED FOR IN THE PLANS OR AS DETERMINED BY THE ENGINEER.
- NOTE:**
- COMPONENTS OF TYPES I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.

FLOATING TURBIDITY BARRIERS
N.T.S.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KIMLEY-HORN AND ASSOCIATES, INC.
 JOHN SEALS, P.E.
 P.E. LICENSE NUMBER 51505
 655 N FRANKLIN ST, SUITE 150
 TAMPA, FL 33602
 PHONE (813) 620-1460
 CERTIFICATE OF AUTHORIZATION NO. ---

TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS

CITY OF	COUNTY
WAUCHULA	HARDEE

Approved
 2020-D-191-000/2
 Donna Cawley
 8/5/2020

EROSION CONTROL DETAILS

SHEET NO. 54

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GENERAL NOTES

1. THE EXISTING SPEED LIMIT SHALL REMAIN IN EFFECT FOR ALL TRAFFIC CONTROL AREAS. THE POSTED SPEED LIMIT FOR WEST TOWNSEND STREET IS 25 MPH.
2. LANE CLOSURE RESTRICTIONS ARE AS FOLLOWS:
 - SINGLE LANE CLOSURES:
 - OPEN ROAD:
 - 7:00 PM TO 6:00 AM ONLY
 - WITHIN 500 FT OF INTERSECTIONS:
 - 9:00 PM TO 6:00 AM ONLY

PHASING NOTES

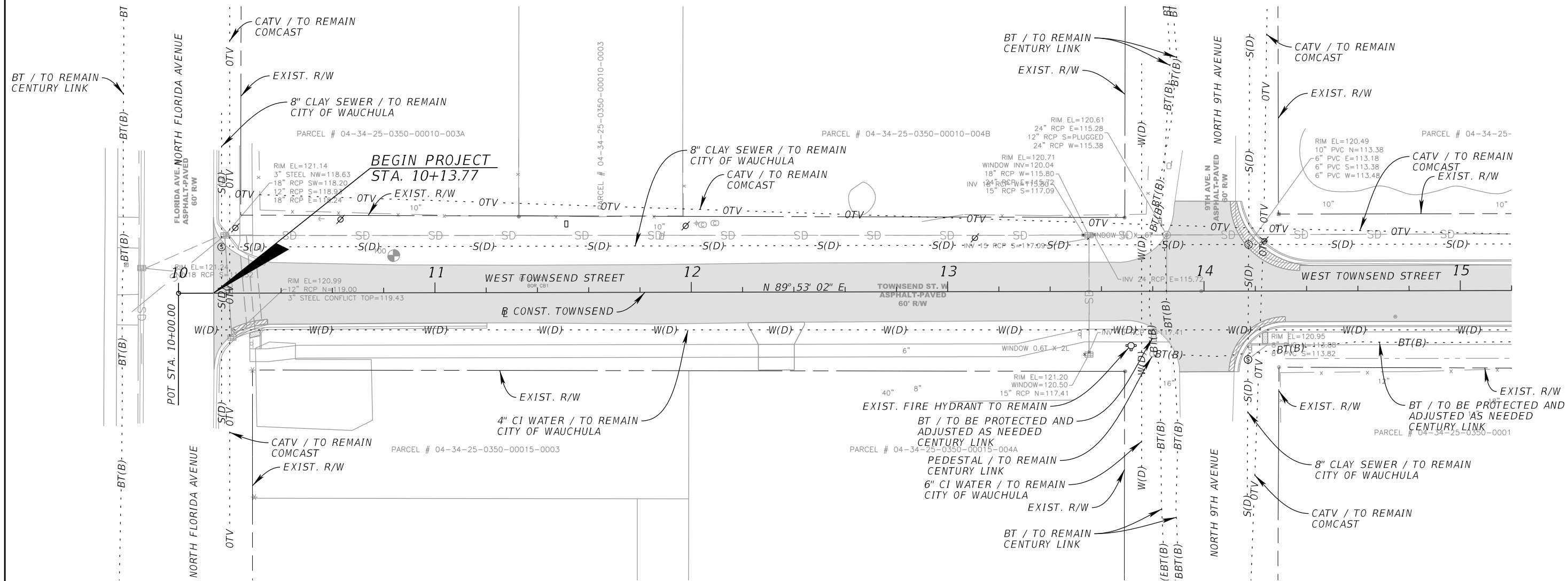
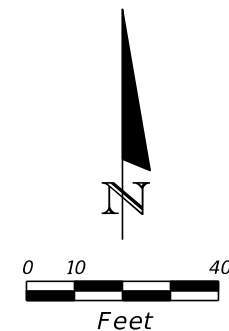
PHASE I

1. PLACE ADVANCE WARNING TRAFFIC CONTROL SIGNS AND DEVICES AS SHOWN IN APPLICABLE INDICES LISTED TO PREPARE WESTBOUND LANES FOR CONSTRUCTION. USE DETOURS TO MILL AND RESURFACE AND CONSTRUCT DRAINAGE SYSTEM, CURB AND GUTTER, AND SIDEWALK.

REVISIONS				KIMLEY-HORN AND ASSOCIATES, INC. JOHN SEALS, P.E. P.E. LICENSE NUMBER 51505 655 N FRANKLIN ST, SUITE 150 TAMPA, FL 33602 PHONE (813) 620-1460 CERTIFICATE OF AUTHORIZATION NO. 696	TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS		TEMP. TRAFFIC CONTROL PLAN GENERAL/PHASING NOTES	SHEET NO. 55
DATE	DESCRIPTION	DATE	DESCRIPTION		CITY OF	COUNTY		
					WAUCHULA	HARDEE		

Approved
 2020-D-191-0002
 Donna Cawley
 8/5/2020

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 P.E. LICENSE NUMBER 51505
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 TAMPA, FL 33602
 PHONE (813) 620-1460
 CERTIFICATE OF AUTHORIZATION NO. 696

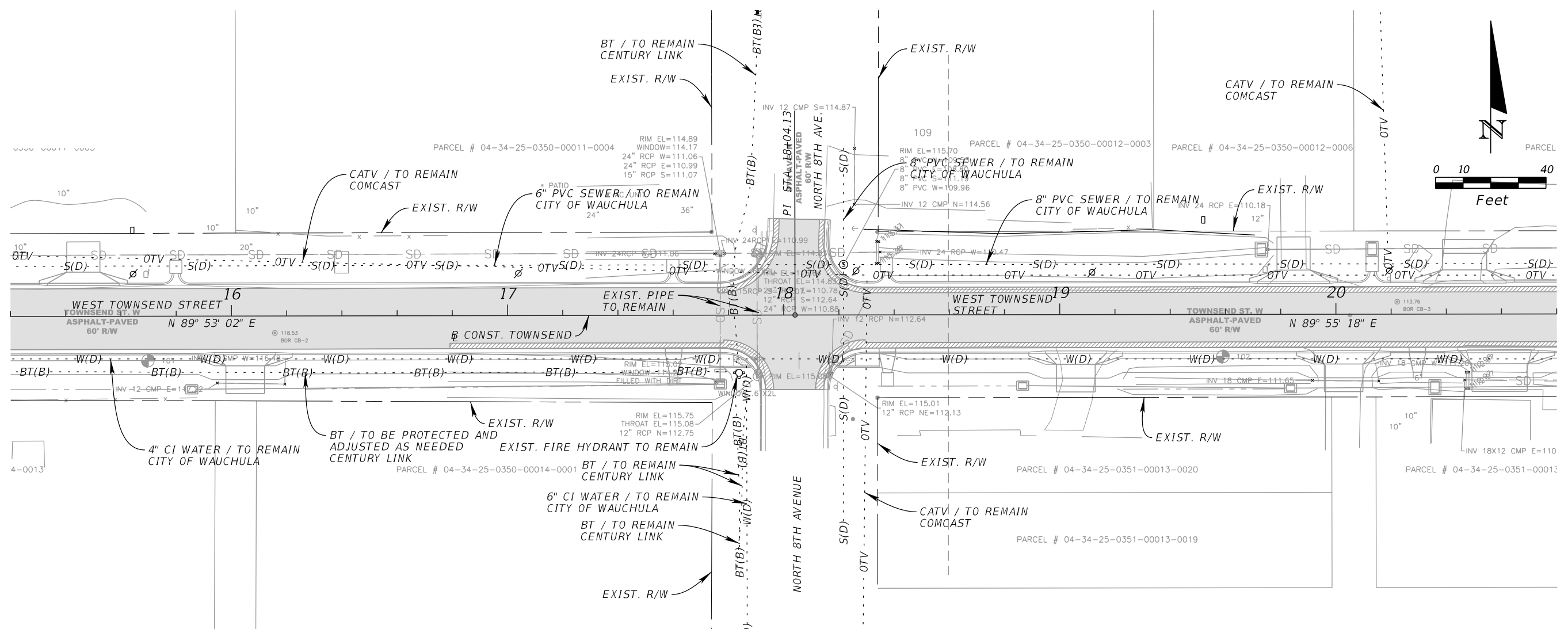
TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS
 CITY OF WAUCHULA
 COUNTY HARDEE

UTILITY ADJUSTMENT SHEET (1)

SHEET NO. 56

Approved
 2020-D-191-0002
 Donna Cawley
 8/5/2020

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 CERTIFICATE OF AUTHORIZATION NO. 696

**TOWNSEND STREET ROADWAY
 AND STORMWATER IMPROVEMENTS**

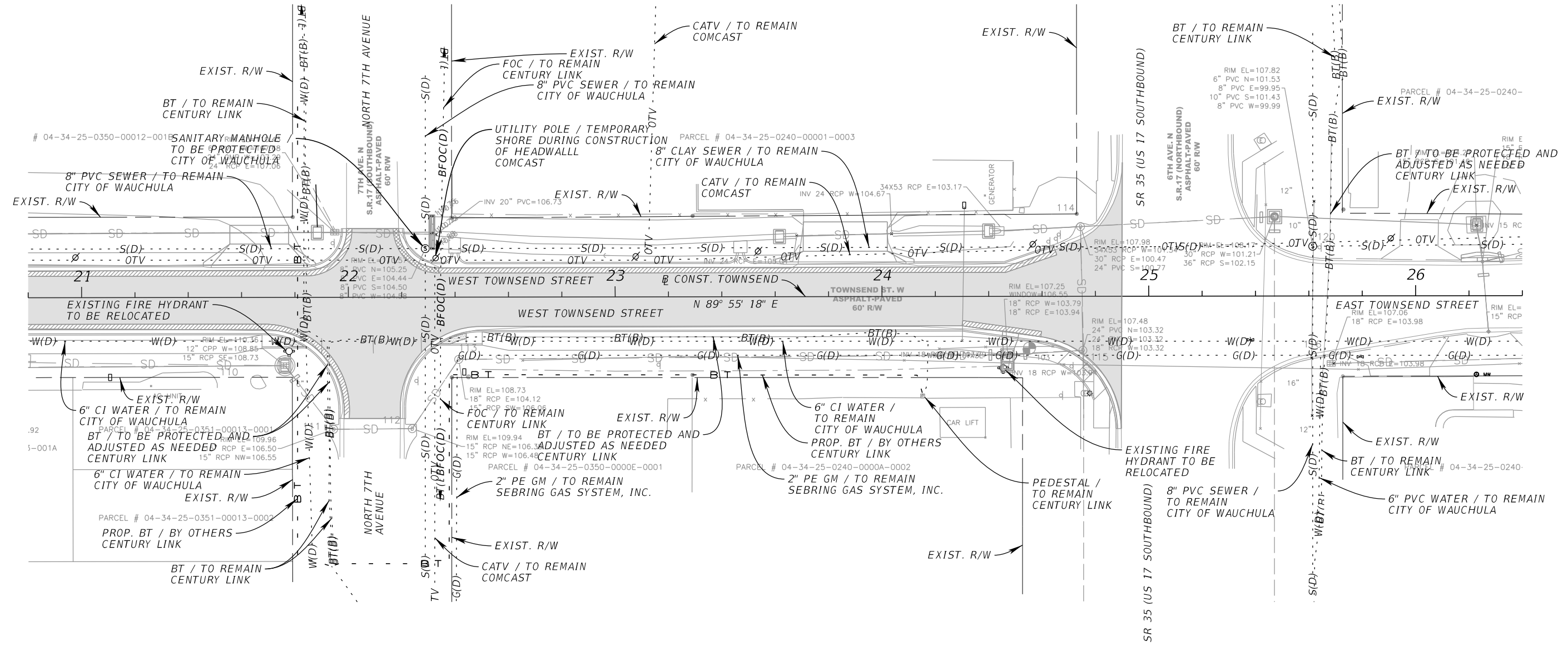
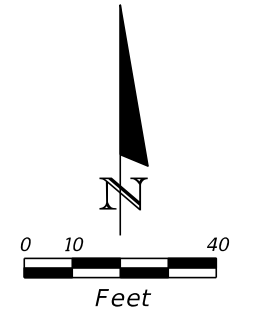
CITY OF	COUNTY
WAUCHULA	HARDEE

**UTILITY ADJUSTMENT
 SHEET (2)**

Approved
 2020-D-191-0002
 Donna Cawley
 8/5/2020

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TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS

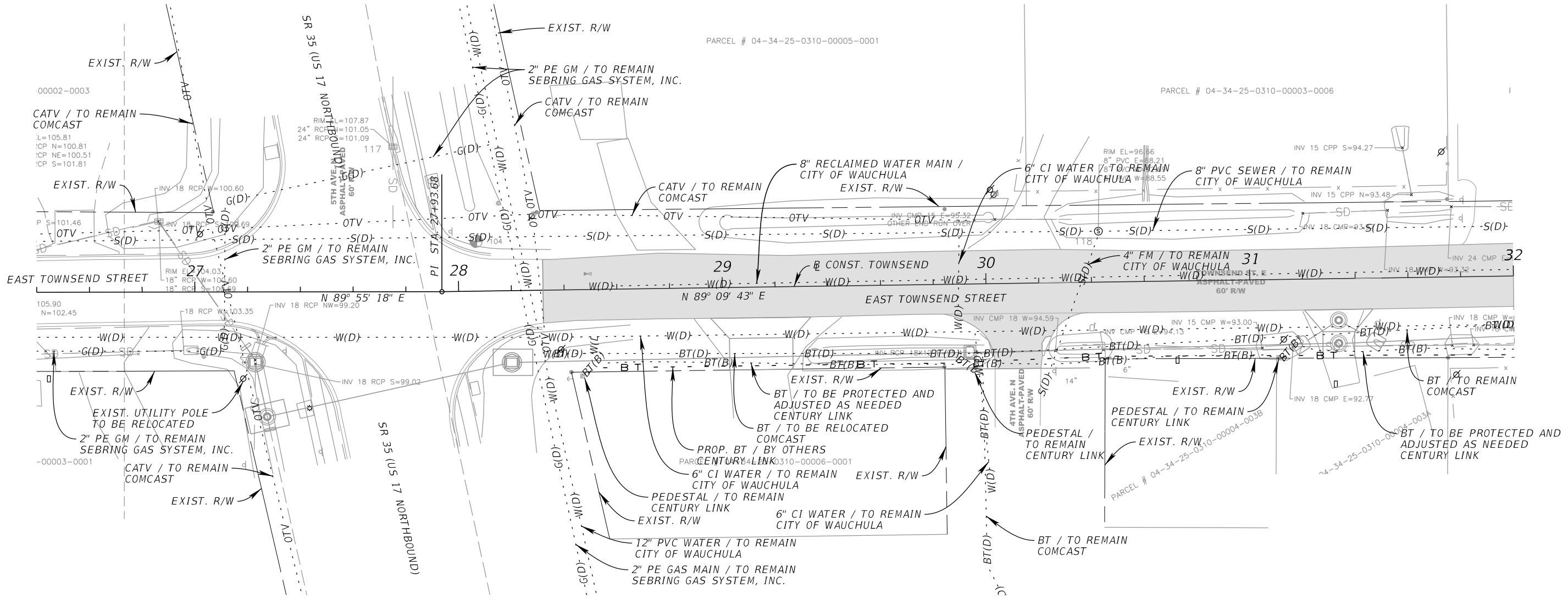
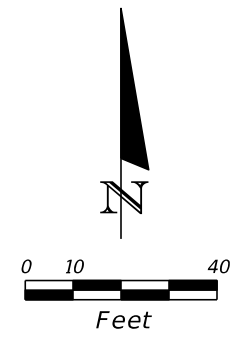
CITY OF	COUNTY
WAUCHULA	HARDEE

UTILITY ADJUSTMENT SHEET (3)

Approved
 2020-D-191-0002
 Donna Cawley
 8/5/2020

SHEET NO. 58

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 655 N FRANKLIN ST, SUITE 150
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 PHONE (813) 620-1460
 CERTIFICATE OF AUTHORIZATION NO. 696

**TOWNSEND STREET ROADWAY
 AND STORMWATER IMPROVEMENTS**

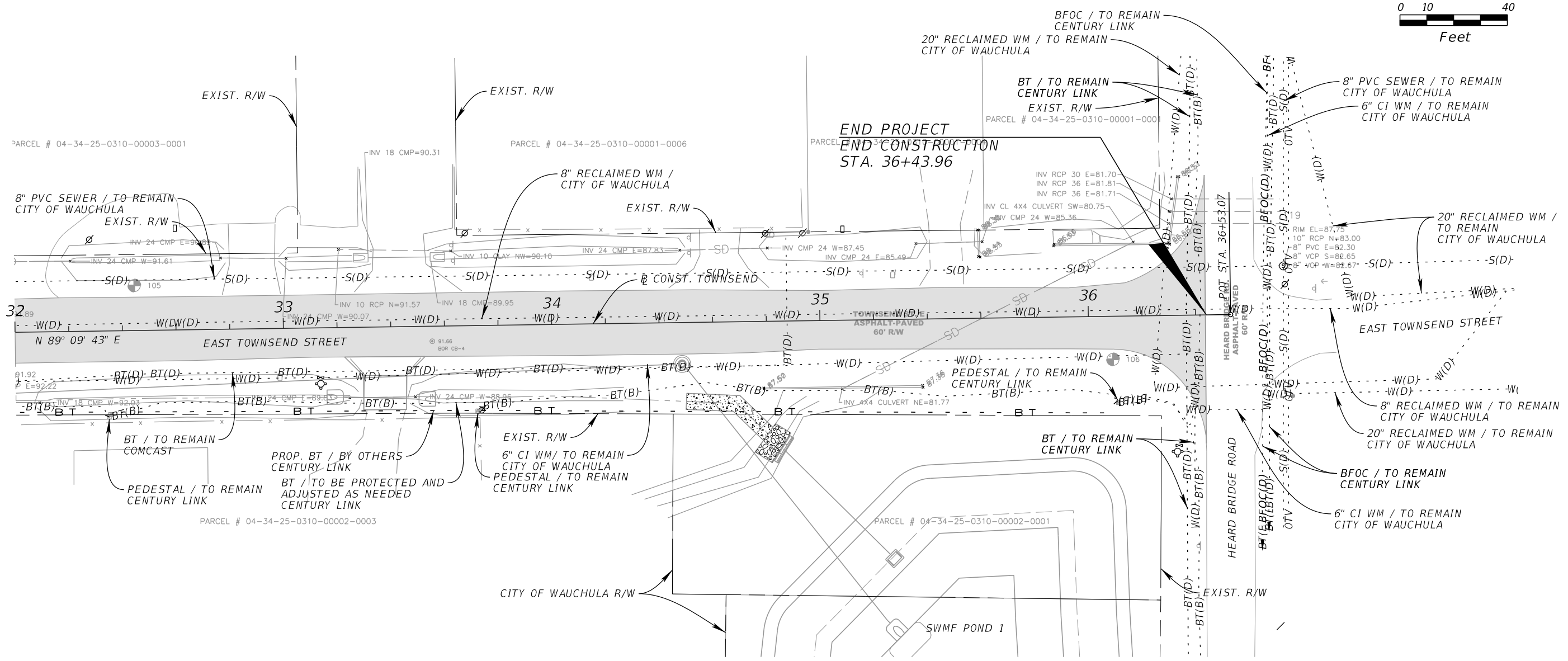
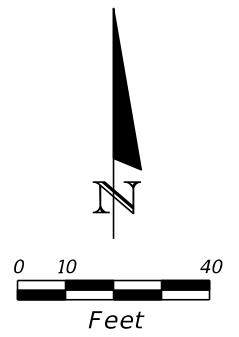
CITY OF	COUNTY
WAUCHULA	HARDEE

UTILITY ADJUSTMENT
SHEET (4)

SHEET NO.
 59

Approved
 2020-D-191-0002
 Donna Cawley
 8/5/2020

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 PHONE (813) 620-1460
 CERTIFICATE OF AUTHORIZATION NO. 696

TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS

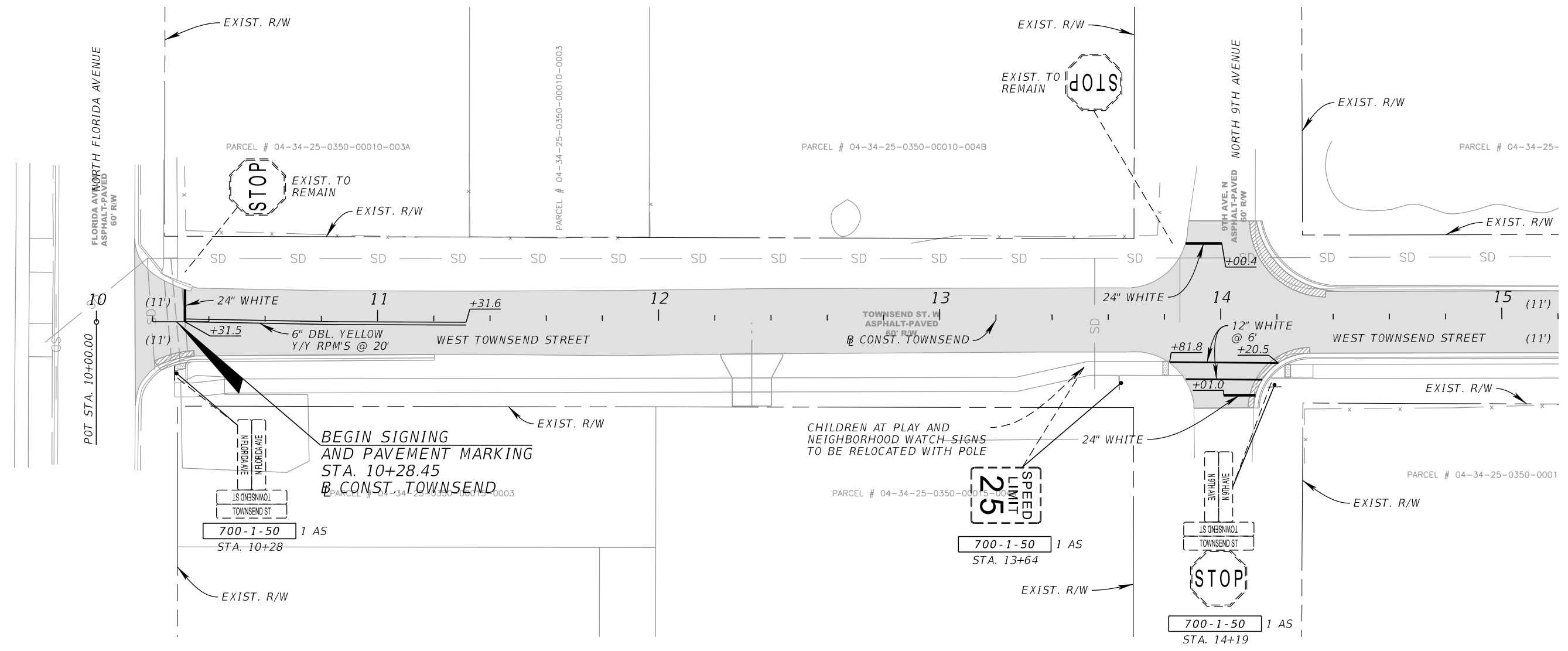
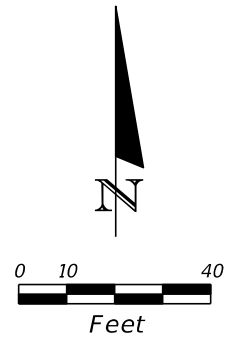
CITY OF	COUNTY
WAUCHULA	HARDEE

UTILITY ADJUSTMENT SHEET (5)

Approved
 2020-D-191-0002
 Denna Cawley
 8/5/2020

SHEET NO. 60

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BEGIN SIGNING AND PAVEMENT MARKING STA. 10+28.45
B CONST. TOWNSEND

CHILDREN AT PLAY AND NEIGHBORHOOD WATCH SIGNS TO BE RELOCATED WITH POLE

LEGEND
 [Shaded Box] 1" MILLING & RESURFACING

KIMLEY-HORN AND ASSOCIATES, INC.
 JOHN SEALS, P.E.
 P.E. LICENSE NUMBER 51505
 655 N FRANKLIN ST., SUITE 150
 TAMPA, FL 33602
 PHONE (813) 620-1460
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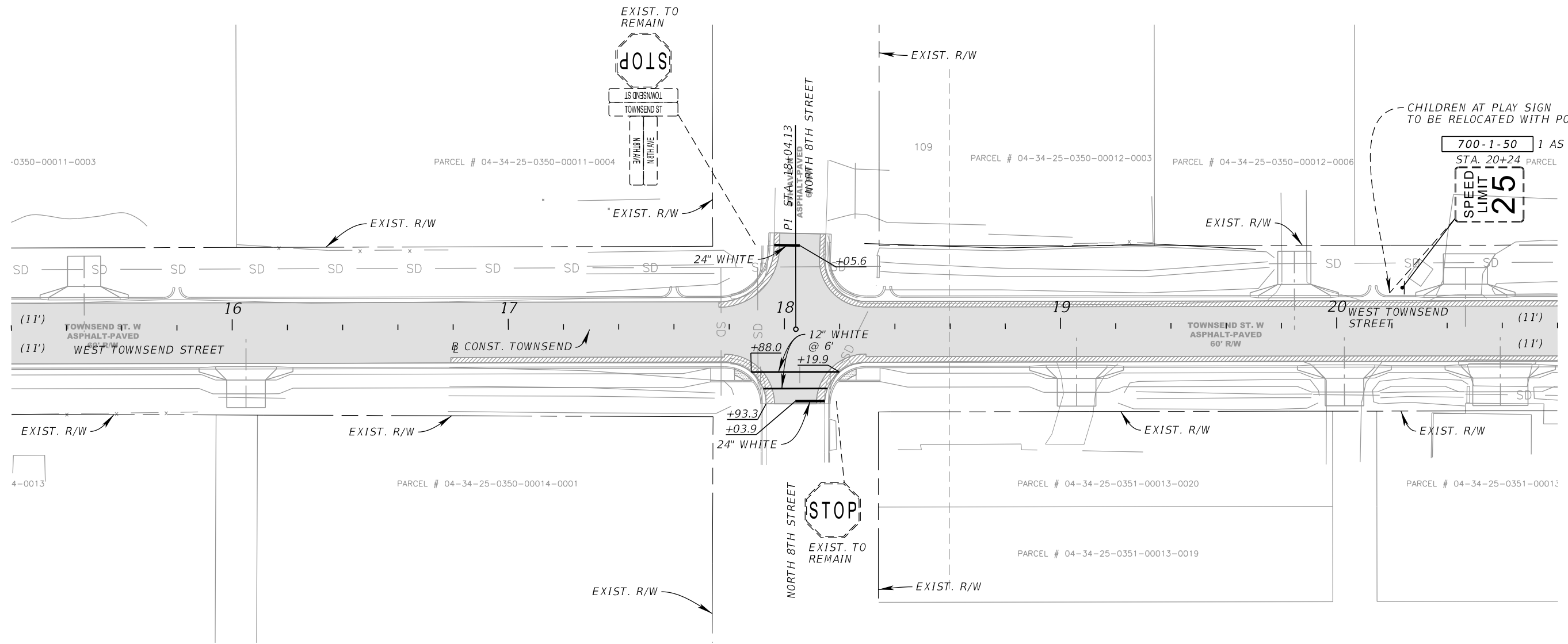
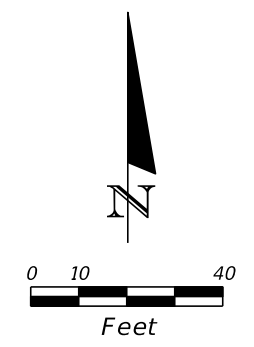
TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS
 CITY OF WAUCHULA COUNTY HARDEE

SIGNING AND PAVEMENT MARKING PLAN SHEET (1)
 SHEET NO. 61

Approved
 2020-D-191-0002
 Donna Cawley
 8/5/2020

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DATE	DESCRIPTION	DATE	DESCRIPTION

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LEGEND

1" MILLING & RESURFACING

Approved
2020-D-191-0002
Donna Cawley
8/5/2020

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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P.E. LICENSE NUMBER 51505
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TAMPA, FL 33602
PHONE (813) 620-1460
CERTIFICATE OF AUTHORIZATION NO. ---

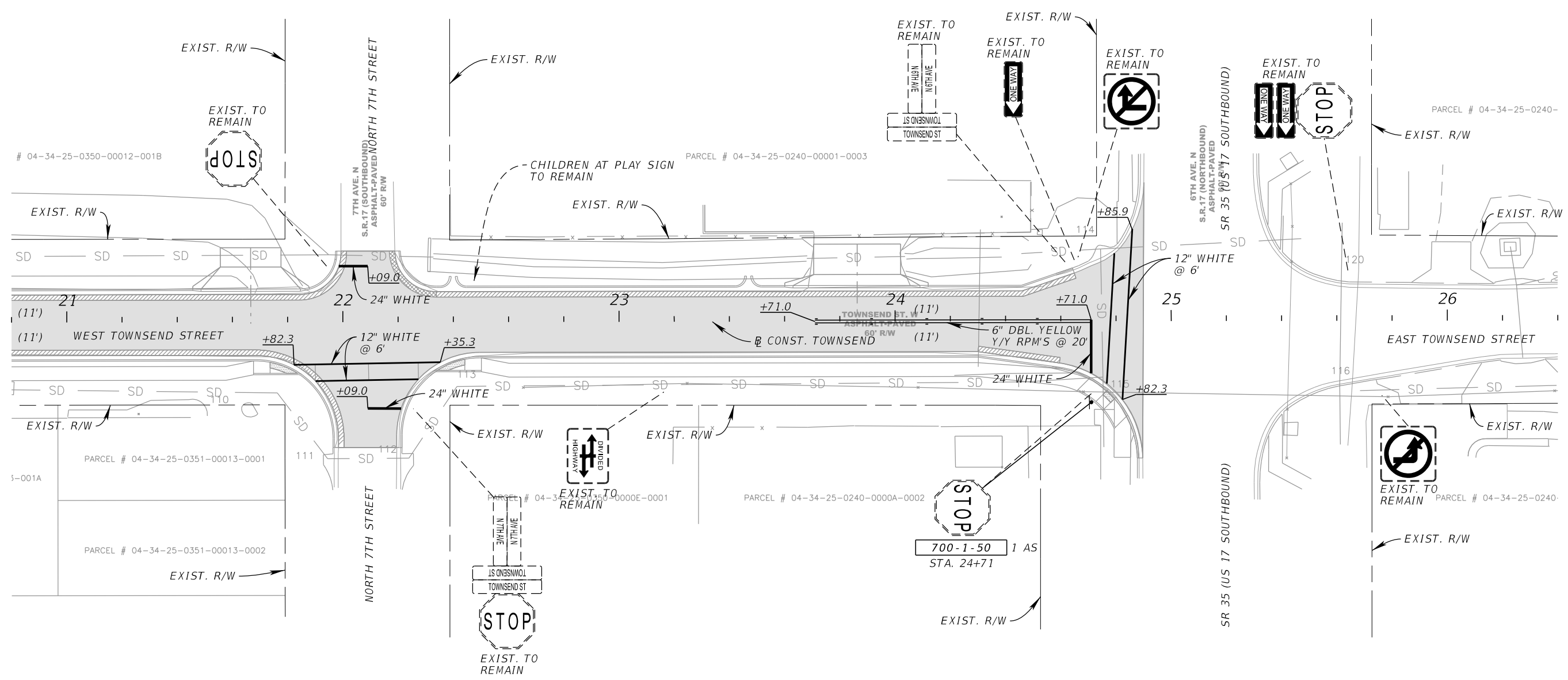
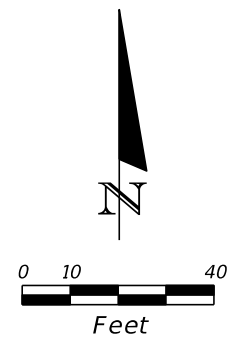
**TOWNSEND STREET ROADWAY
AND STORMWATER IMPROVEMENTS**

CITY OF WAUCHULA	COUNTY HARDEE
---------------------	------------------

**SIGNING AND PAVEMENT
MARKING PLAN SHEET (2)**

SHEET
NO.
62

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LEGEND
 [Shaded Box] 1" MILLING & RESURFACING

Approved
 2020-D-191-0002
 Donna Cawley
 8/5/2020
 SHEET NO. 63

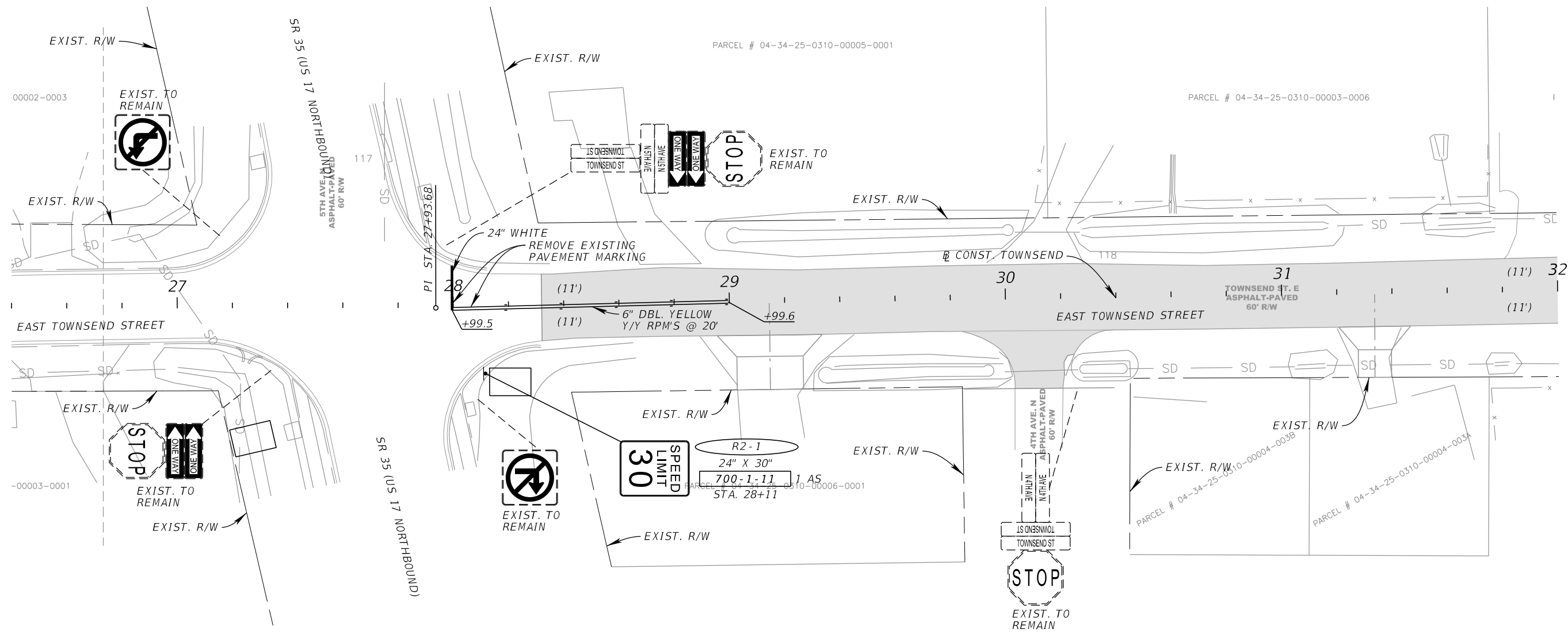
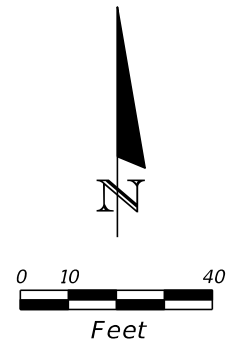
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KIMLEY-HORN AND ASSOCIATES, INC.
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TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS
 CITY OF WAUCHULA
 COUNTY HARDEE

SIGNING AND PAVEMENT MARKING PLAN SHEET (3)

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LEGEND

1" MILLING & RESURFACING

Approved
2020-D-191-0002
Donna Cawley
8/5/2020
SHEET NO. 64

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

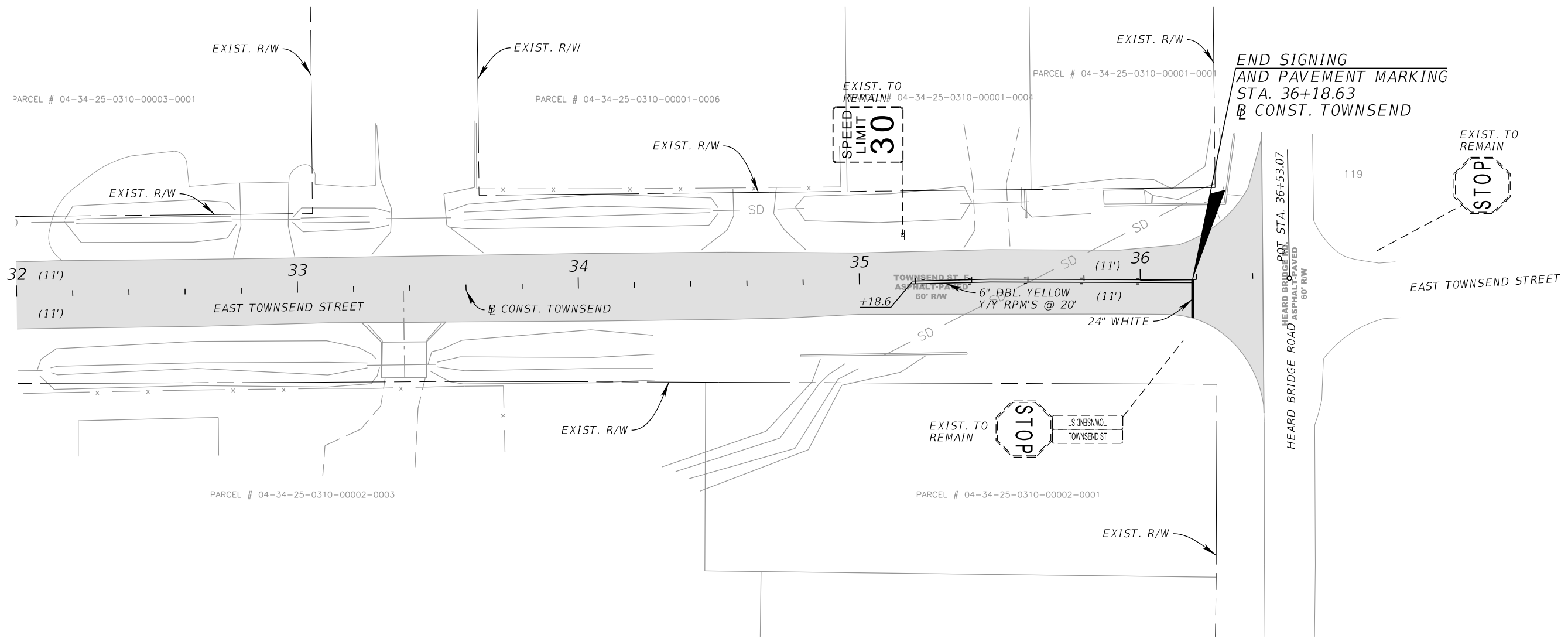
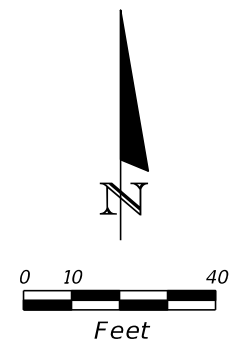
KIMLEY-HORN AND ASSOCIATES, INC.
JOHN SEALS, P.E.
P.E. LICENSE NUMBER 51505
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TAMPA, FL 33602
PHONE (813) 620-1460
CERTIFICATE OF AUTHORIZATION NO. ___

**TOWNSEND STREET ROADWAY
AND STORMWATER IMPROVEMENTS**

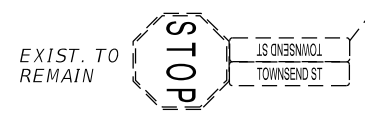
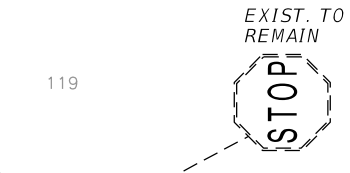
CITY OF WAUCHULA	COUNTY HARDEE
---------------------	------------------

**SIGNING AND PAVEMENT
MARKING PLAN SHEET (4)**

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**END SIGNING
AND PAVEMENT MARKING
STA. 36+18.63
@ CONST. TOWNSEND**



LEGEND

1" MILLING & RESURFACING

Approved
2020-D-191-0002
Donna Cawley
8/5/2020
SHEET NO. 65

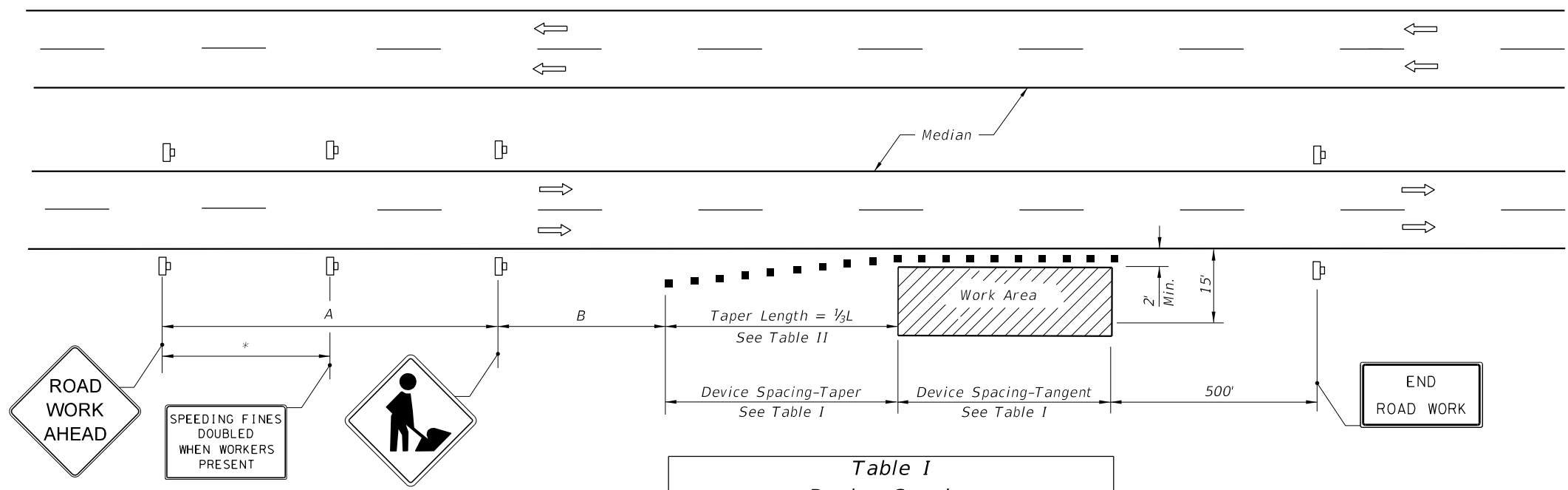
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KIMLEY-HORN AND ASSOCIATES, INC.
JOHN SEALS, P.E.
P.E. LICENSE NUMBER 51505
655 N FRANKLIN ST, SUITE 150
TAMPA, FL 33602
PHONE (813) 620-1460
CERTIFICATE OF AUTHORIZATION NO. ---

**TOWNSEND STREET ROADWAY
AND STORMWATER IMPROVEMENTS**
CITY OF WAUCHULA COUNTY HARDEE

**SIGNING AND PAVEMENT
MARKING PLAN SHEET (5)**

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Speed	Spacing (ft.)	
	A	B
40 mph or less	200	200
45 mph	350	350
50 mph or greater	500	500

* 250' beyond the ROAD WORK AHEAD sign or midway between signs whichever is less.

Speed (mph)	Max. Distance Between Devices (ft.)			
	Cones or Tubular Markers		Type I or Type II Barricades or Vertical Panels or Drums	
	Taper	Tangent	Taper	Tangent
25	25	50	25	50
30 to 45	25	50	30	50
50 to 70	25	50	50	100

Speed (mph)	1/3 L (ft.)			Notes
	8' Shldr.	10' Shldr.	12' Shldr.	
25	28	35	42	$L = \frac{WS^2}{60}$
30	40	50	60	
35	55	68	82	
40	72	90	107	L=WS
45	120	150	180	
50	133	167	200	
55	147	183	220	
60	160	200	240	
65	173	217	260	
70	187	233	280	

8' minimum shoulder width.
 1/3 L = Length of shoulder taper in feet
 W = Width of total shoulder in feet (combined paved and unpaved width)
 S = Posted speed limit (mph)

GENERAL NOTES

- When a high volume of work vehicles are entering and leaving the Work Area at speeds slower than 10 MPH below the posted speed, place an M0T-5-06 sign in the ROAD WORK AHEAD sign location and shift the ROAD WORK AHEAD sign upstream 500 ft.
- This TCZ plan also applies to work performed in the median more than 2' but less than 15' from the edge of travelway.
- When work is being performed on a multilane undivided roadway the signs normally mounted in the median (as shown) shall be omitted.
- WORKERS signs to be removed or fully covered when no work is being performed.
- SHOULDER WORK sign may be used as an alternate to the WORKER symbol sign.
- When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TCZ Indexes.
- For general TCZ requirements and additional information, refer to Index 102-600.

DURATION NOTES

- Signs and channelizing devices may be omitted if all of the following conditions are met:
 - Work operations are 60 minutes or less.
 - Vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH THE AREA CLOSER THAN 15' BUT NOT CLOSER THAN 2' TO THE EDGE OF TRAVEL WAY.

SYMBOLS

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification + Direction of Traffic

Approved
 2020-D-191-00002
 Donna Carver
 INDEX 8/5/2020 SHEET
 102-612 1 of 1

2/26/2020 12:33:42 PM

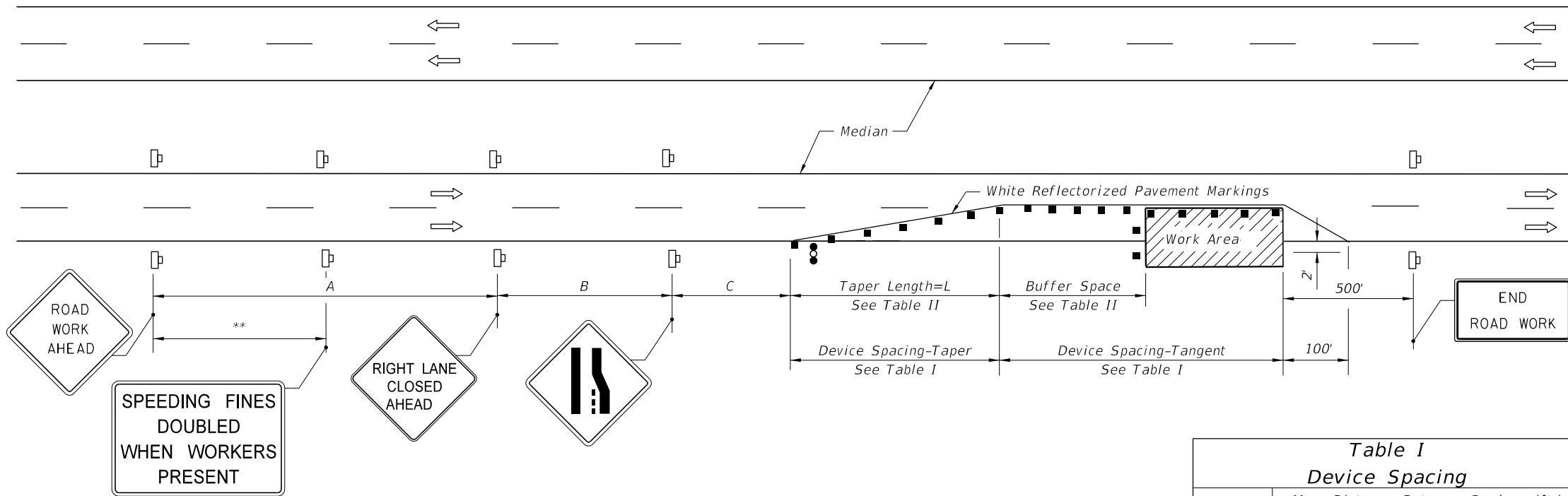


Table II
Buffer Space and Taper Length

Speed (mph)	Buffer Space (ft.)	Taper Length (12' Lateral Transition)	
		L (ft.)	Notes (Merge)
25	155	125	$L = \frac{WS^2}{60}$
30	200	180	
35	250	245	
40	305	320	$L = WS$
45	360	540	
50	425	600	
55	495	660	
60	570	720	
65	645	780	
70	730	840	

When Buffer Space cannot be attained due to geometric constraints, the greatest attainable length shall be used, but not less than 200 ft.

For lateral transitions other than 12', use formula for L shown in notes column. Where:

L = Length of taper in feet
W = Width of lateral transition in feet
S = Posted speed limit (mph)

Table I
Device Spacing

Speed (mph)	Max. Distance Between Devices (ft.)			
	Cones or Tubular Markers		Type I or Type II Barricades or Vertical Panels or Drums	
	Taper	Tangent	Taper	Tangent
25	25	50	25	50
30 to 45	25	50	30	50
50 to 70	25	50	50	100

DURATION NOTES

- Temporary white edgeline may be omitted for work operations less than 3 consecutive calendar days.
- For work operations up to approximately 15 minutes, signs, channelizing devices, arrow board, and buffer space may be omitted if all of the following conditions are met:
 - Speed limit is 45 mph or less.
 - No sight obstructions to vehicles approaching the work area for a distance equal to the buffer space and the taper length combined.
 - Volume and complexity of the roadway has been considered.
 - The closed lane is occupied by a class 5 or larger, medium duty truck(s) with a minimum gross weight vehicle rating (GWVR) of 16,001 lb with high-intensity, rotating, flashing, oscillating, or strobe lights mounted above the cab height and operating.
- For work operations up to 60 minutes, arrow board and buffer space may be omitted if conditions a, b, and c in DURATION NOTE 2 are met, and vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH ON THE LANE ADJACENT TO EITHER SHOULDER AND THE AREA 2' OUTSIDE THE EDGE OF TRAVEL WAY.

DISTANCE BETWEEN SIGNS

Speed	Spacing (ft.)		
	A	B	C
40 mph or less	200	200	200
45 mph	350	350	350
50 mph	500	500	500
*55 mph or greater	2640	1640	1000

* The ROAD WORK 1 MILE sign may be used as an alternate to the ROAD WORK AHEAD sign and the RIGHT LANE CLOSED 1/2 MILE sign may be used as an alternate to the RIGHT LANE CLOSED AHEAD sign.

** 500' beyond the ROAD WORK AHEAD sign or midway between signs whichever is less.

GENERAL NOTES

- Work operations shall be confined to one traffic lane, leaving the adjacent lane open to traffic.
- On undivided highways the median signs as shown are to be omitted.
- When work is performed in the median lane on divided highways, the channelizing device plan is inverted and left lane closed and lane ends signs substituted for the right lane closed and lane end signs.

The same applies to undivided highways with the following exceptions:

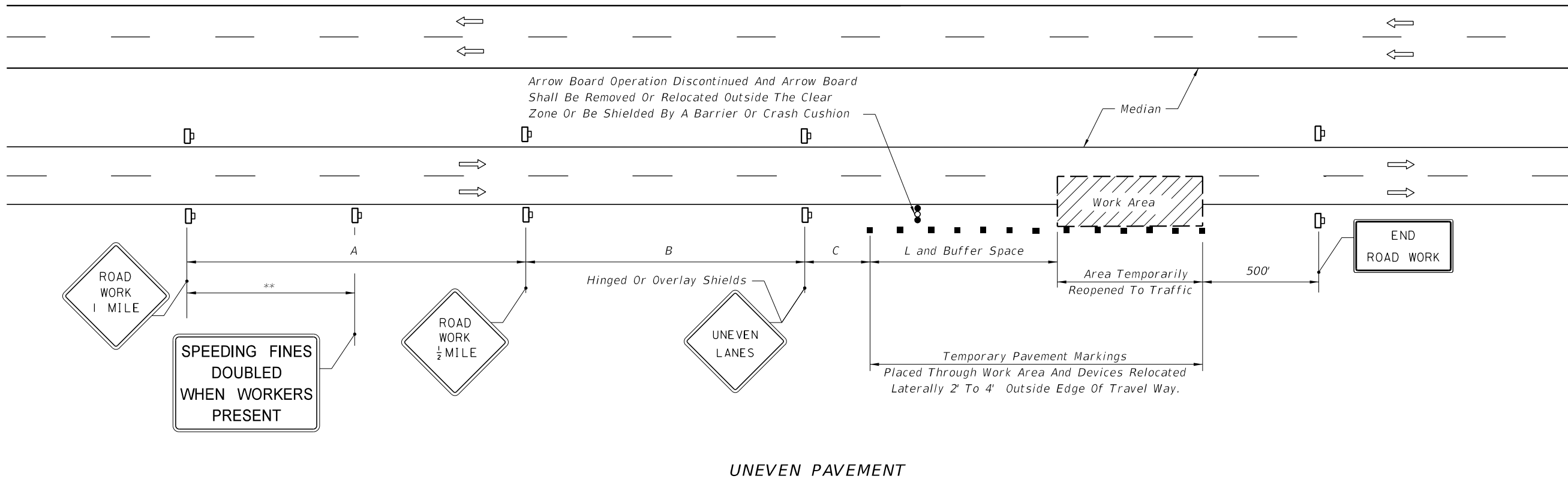
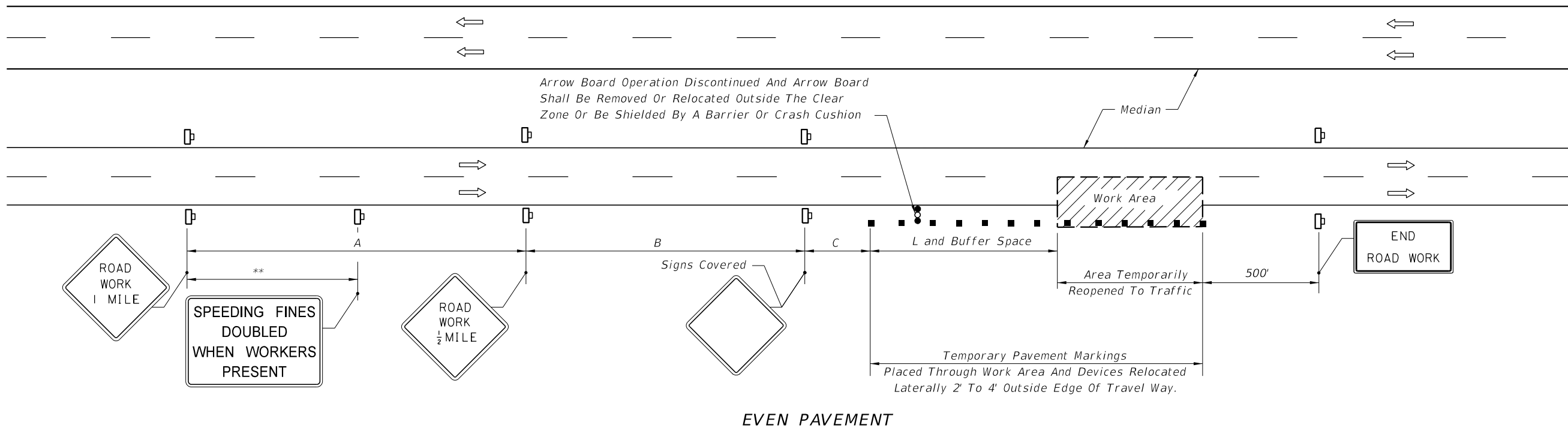
 - Work shall be confined within one median lane.
 - Additional barricades, cones, or drums shall be placed along the centerline abutting the work area and across the trailing end of the work area.

When work on undivided highways occurs across the centerline so as to encroach on both median lanes, the inverted plan is applied to the approach of both roadways.
- Signs and traffic control devices are to be modified in accordance with INTERMITTENT WORK STOPPAGE details (sheet 2 of 2) when no work is being performed and the highway is open to traffic.
- The two channelizing devices directly in front of the work area may be omitted provided vehicles in the work area have high-intensity rotating, flashing, oscillating, or strobe lights operating.
- When paved shoulders having a width of 8 ft. or more are closed, channelizing devices shall be used to close the shoulder in advance of the merging taper to direct vehicular traffic to remain within the travel way. See Index 102-612 for shoulder taper formulas.
- When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TCZ Indexes.
- This TCZ plan does not apply when work is being performed in the middle lane(s) of a six or more lane highway. See Index 102-614.
- For general TCZ requirements and additional information, refer to Index 102-600.

SYMBOLS

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Advance Warning Arrow Board

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INTERMITTENT WORK STOPPAGE - LANE REOPENED TO TRAFFIC

Approved
 2020-D-191-00002
 Donna Carver
 8/5/2020

2/26/2020 12:34:11 PM

LAST REVISION 11/01/17	REVISION DESCRIPTION:	 FY 2020-21 STANDARD PLANS	MULTILANE, WORK WITHIN TRAVEL WAY MEDIAN OR OUTSIDE LANE	INDEX 102-613	SHEET 2 of 2
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GENERAL NOTES

1. Work operations shall be confined to either one lane, or lane combinations as follows:
 - a. Outside travel lane;
 - b. Outside auxiliary lane;
 - c. Outside travel lane and adjoining auxiliary lane;
 - d. Inside travel lane Δ ;
 - e. Inside auxiliary lane Δ ;
 - f. Inside travel lane and adjoining auxiliary lane Δ







Δ See Sheet 3

If the work area is confined to an auxiliary lane the work area shall be barricaded and the RIGHT (LEFT) LANE CLOSED AHEAD signs replaced by ROAD WORK AHEAD signs, and the merge symbol signs eliminated.
2. When vehicles in a parking zone block the line of sight to TCZ signs, the signs shall be post mounted and located in accordance with Index 700-101
3. If the work space extends across a crosswalk, the crosswalk should be closed using the information in Index 102-660.
4. Signs are required on the median side for divided highways.
5. The two channelizing devices directly in front and directly at the end of the work area may be omitted provided vehicles in the work area have high-intensity rotating, flashing, oscillating, or strobe lights operating.
6. For general TCZ requirements and additional information, refer to Index 102-600.

DURATION NOTES


1. For work operations up to approximately 15 minutes, signs, channelizing devices, and arrow board may be omitted if all of the following conditions are met:
 - a. Speed limit is 45 mph or less.
 - b. No sight obstructions to vehicles approaching the work area for a distance equal to twice the taper length.
 - c. Volume and complexity of the roadway has been considered.
 - d. The closed lane is occupied by a class 5 or larger, medium duty truck(s) with a minimum gross weight vehicle rating (GWVR) of 16,001 lb with high-intensity, rotating, flashing, oscillating, or strobe lights mounted above the cab height and operating.
2. For work operations up to 60 minutes, the arrow board may be omitted if conditions a, b, and c in DURATION NOTE 1 are met, and vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.

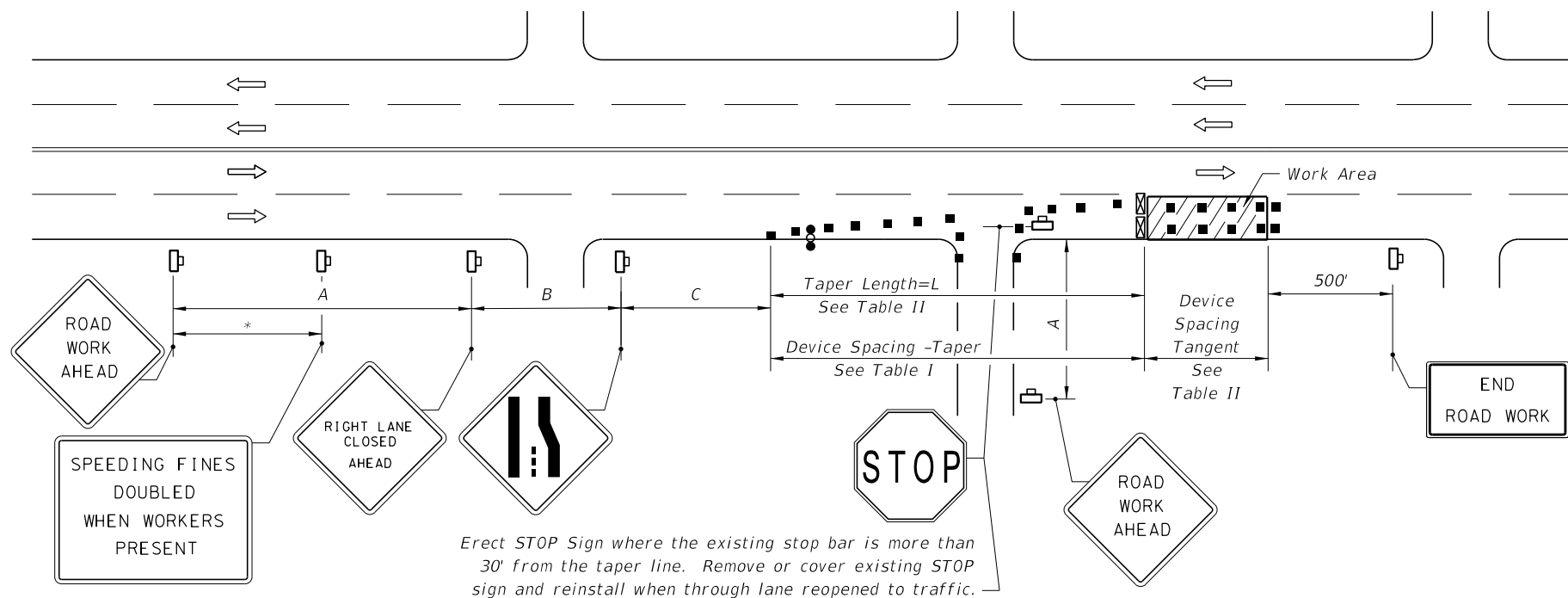
SYMBOLS

-  Work Area
-  Work Zone Sign
-  Advance Warning Arrow Board
-  Type III Barricade
-  Channelizing Device (See Index 102-600)
-  Lane Identification + Direction of Traffic

2/26/2020 12:35:32 PM

Approved
2020-D-191-00002
Donna Carver
INDEX 8/5/2020 SHEET
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LAST REVISION 11/01/17	REVISION	DESCRIPTION:		FY 2020-21 STANDARD PLANS	MULTILANE, WORK NEAR INTERSECTION MEDIAN OR OUTSIDE LANE	INDEX 102-616	SHEET 1 of 3
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Erect STOP Sign where the existing stop bar is more than 30' from the taper line. Remove or cover existing STOP sign and reinstall when through lane reopened to traffic.

RIGHT LANE CLOSED ON FAR SIDE OF MINOR SIDE STREET

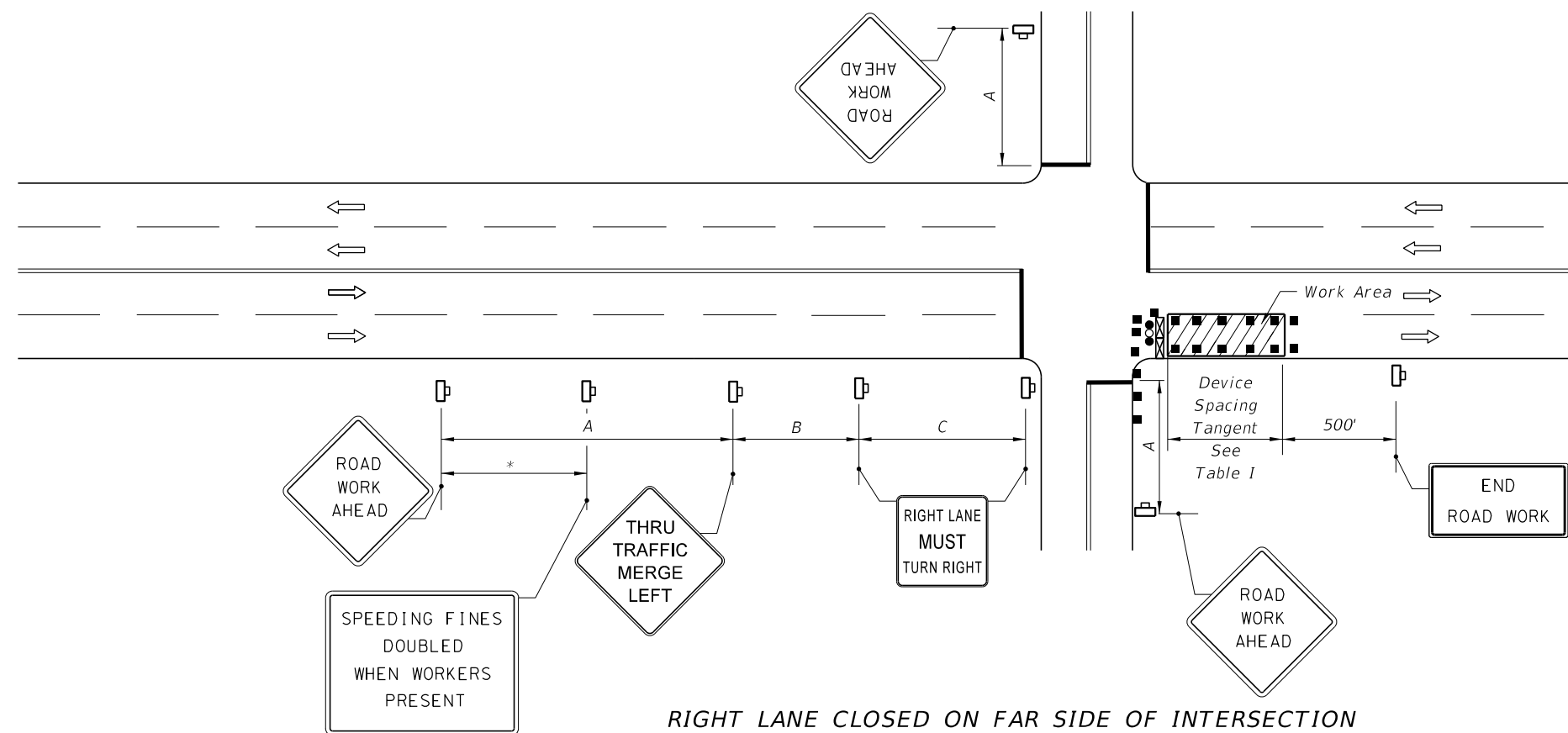
DISTANCE BETWEEN SIGNS

Speed	Spacing (ft.)		
	A	B	C
40 mph or less	200	200	200
45 mph	350	350	350

* 500' beyond the ROAD WORK AHEAD sign or midway between signs whichever is less.

**Table I
Device Spacing**

Speed (mph)	Max. Distance Between Devices (ft.)			
	Cones or Tubular Markers		Type I or Type II Barricades or Vertical Panels or Drums	
	Taper	Tangent	Taper	Tangent
25	25	50	25	50
30 to 45	25	50	30	50



RIGHT LANE CLOSED ON FAR SIDE OF INTERSECTION WITH SIGNIFICANT RIGHT TURNING MOVEMENTS

**Table II
Taper Length - Merge
(12' Lateral Transition)**

Speed (mph)	L (ft)	Notes (Merge)
25	125	$L = \frac{WS^2}{60}$
30	180	
35	245	
40	320	
45	540	$L=WS$

For lateral transitions other than 12', use formula for L shown in the notes column. Where:

L = Length of taper in feet
W = Width of lateral transition in feet
S = Posted speed limit (mph)

1. The normal procedure is to close on the near side of the intersection any lane that is not carried through the intersection. However, when this results in the closure of a right lane having significant right turning movements, then the right lane may be restricted to right turns only as shown in this detail.

2. For intersection approaches reduced to a single lane, left turning movements may be prohibited to maintain capacity for through vehicular traffic.

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LAST REVISION
11/01/17

REVISION DESCRIPTION:

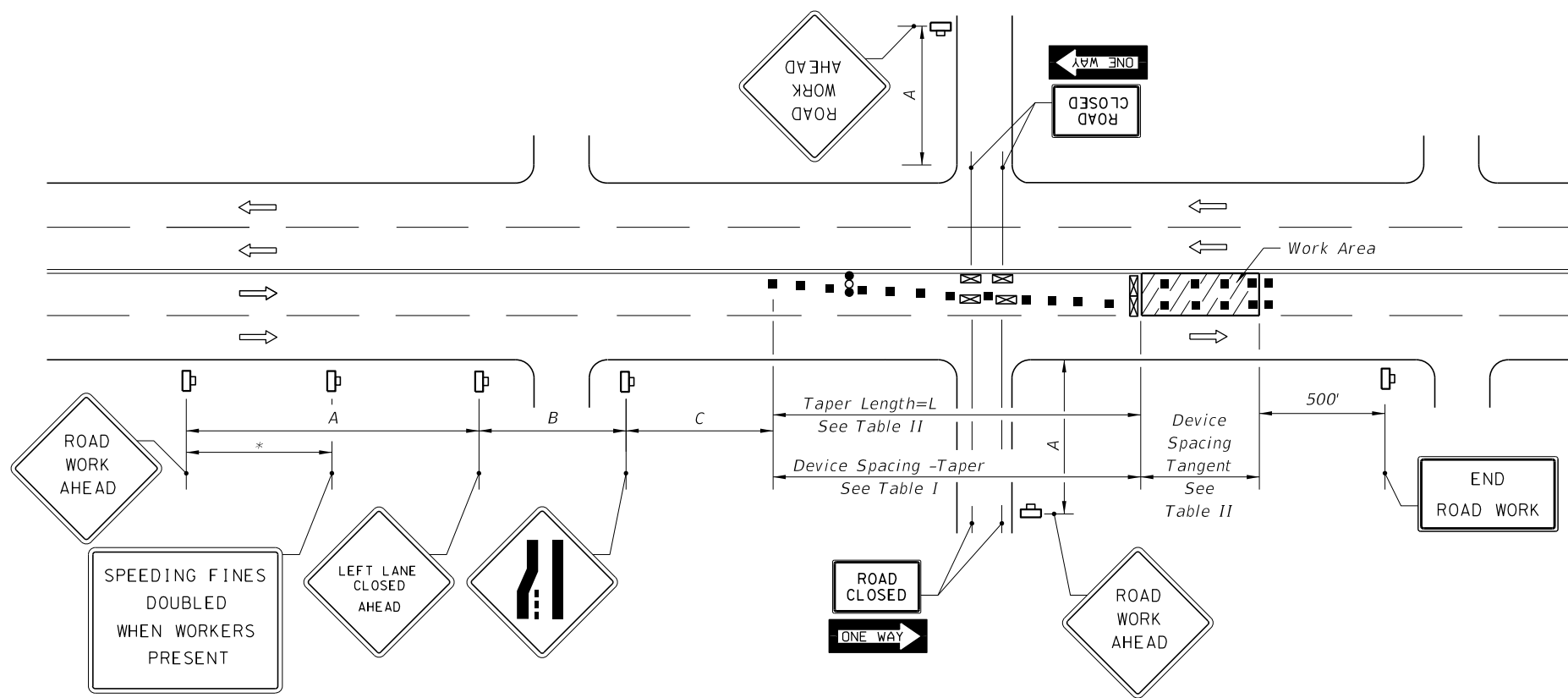


FY 2020-21
STANDARD PLANS

MULTILANE, WORK NEAR INTERSECTION
MEDIAN OR OUTSIDE LANE

Approved
2020-D-191-00002
Donna Carver
INDEX SHEET
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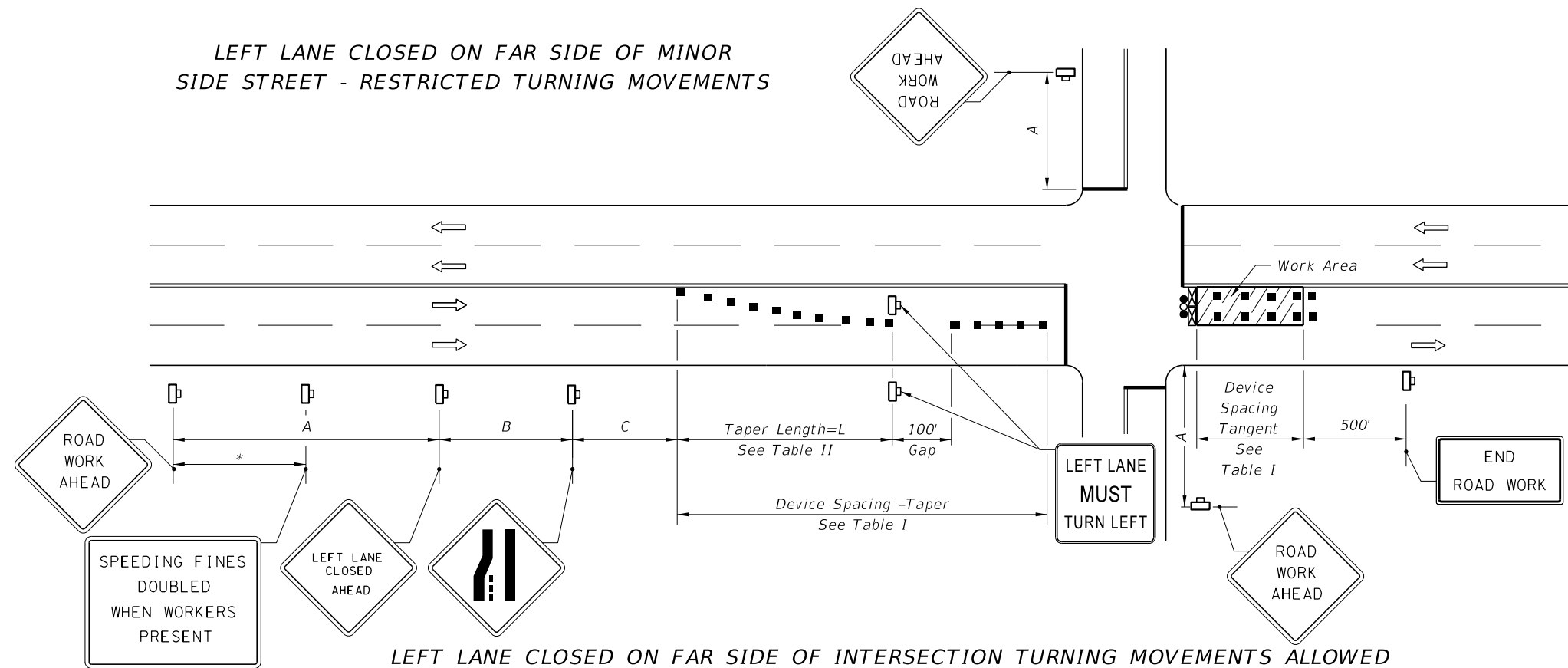


Speed	Spacing (ft.)		
	A	B	C
40 mph or less	200	200	200
45 mph	350	350	350

* 500' beyond the ROAD WORK AHEAD sign or midway between signs whichever is less.

Speed (mph)	Max. Distance Between Devices (ft.)			
	Cones or Tubular Markers		Type I or Type II Barricades or Vertical Panels or Drums	
	Taper	Tangent	Taper	Tangent
25	25	50	25	50
30 to 45	25	50	30	50

LEFT LANE CLOSED ON FAR SIDE OF MINOR SIDE STREET - RESTRICTED TURNING MOVEMENTS



Speed (mph)	L (ft.)	Notes (Merge)
25	125	$L = \frac{WS^2}{60}$
30	180	
35	245	
40	320	
45	540	$L = WS$

For lateral transitions other than 12', use formula for L shown in the notes column. Where:
 L = Length of taper in feet
 W = Width of lateral transition in feet
 S = Posted speed limit (mph)

LEFT LANE CLOSED ON FAR SIDE OF INTERSECTION TURNING MOVEMENTS ALLOWED

1. The normal procedure is to close on the near side of the intersection any lane that is not carried through the intersection. However, when this results in the closure of a left lane having significant left turning movements, then the left lane may be reopened as a turn bay for left turns only as show in this detail.

Approved
 2020-D-191-00002
 Donna Carver
 8/5/2020
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LAST REVISION 11/01/17




DESCRIPTION:



FY 2020-21
 STANDARD PLANS

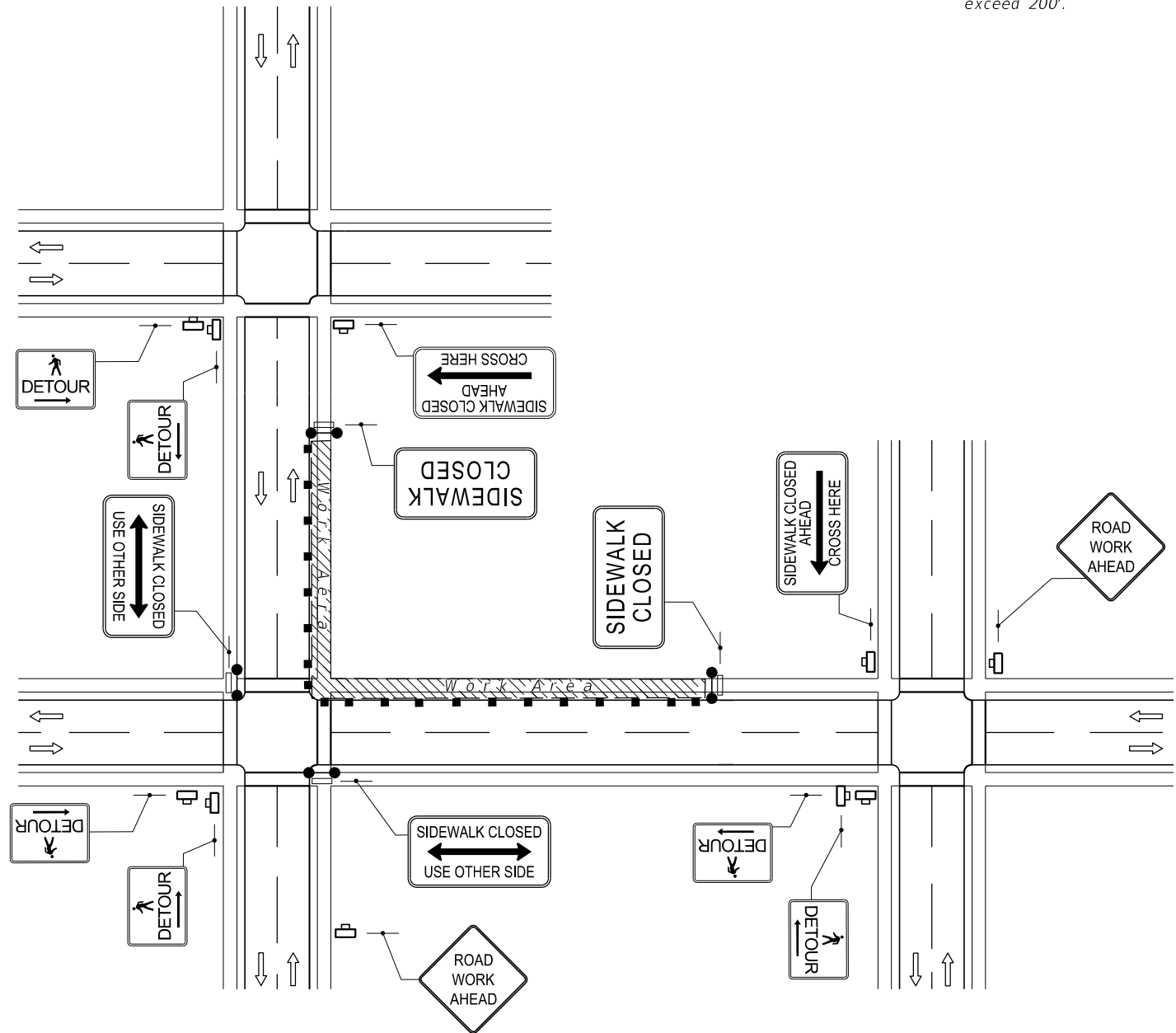
MULTILANE, WORK NEAR INTERSECTION
 MEDIAN OR OUTSIDE LANE

SYMBOLS

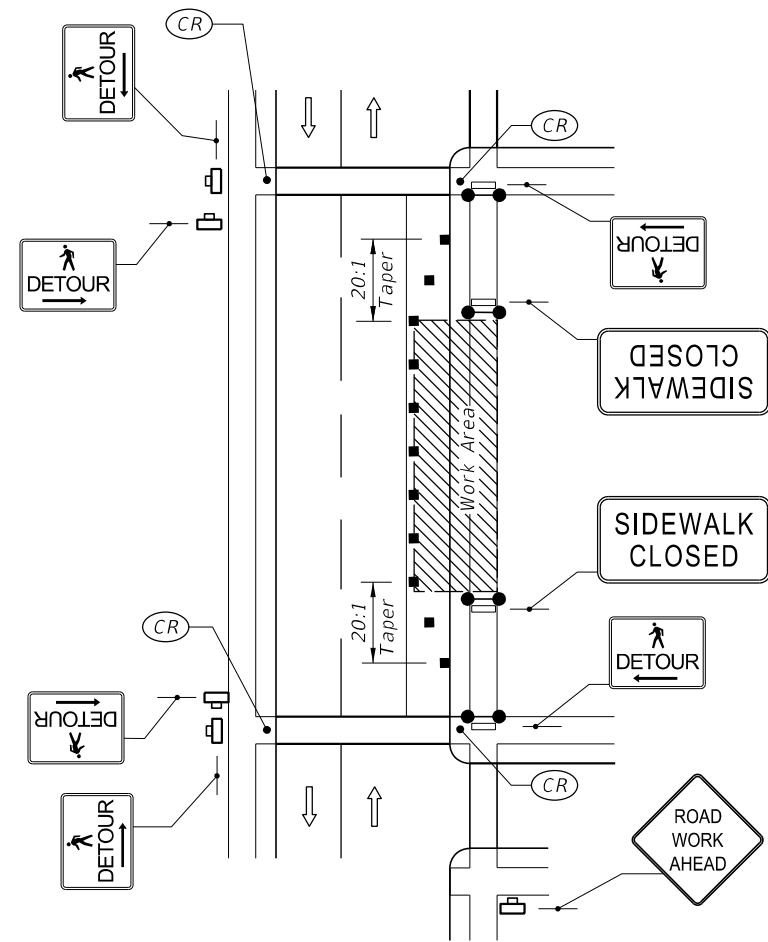
-  Work Area
-  Channelizing Device
-  Work Zone Sign
-  Required Locations For Either Temporary Or Permanent Curb Ramps.
-  Lane Identification + Direction of Traffic
-  Pedestrian Longitudinal Channelizing Device (LCD) with Mounted Work Zone Sign or separate Work Zone Sign
-  Pedestrian Longitudinal Channelizing Device (LCD)
-  Temporary Sidewalk

GENERAL NOTES:

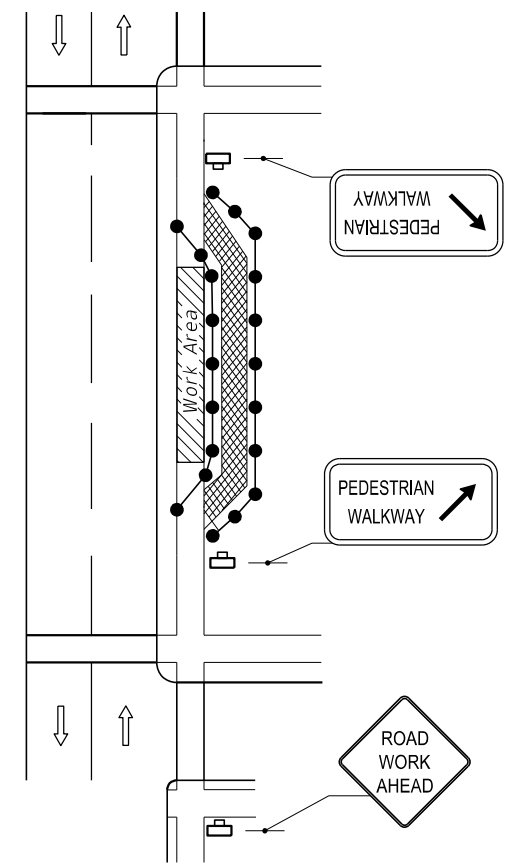
1. When encroaching work requires a sidewalk closure for 60 minutes or greater, provide an alternate pedestrian route.
2. For spacing of vehicular Channelizing Devices, see applicable vehicular temporary traffic control Indexes.
3. Cover or deactivate pedestrian traffic signal display(s) controlling closed crosswalks.
4. For post mounted signs located near or adjacent to a sidewalk, maintain a minimum 7' clearance from the bottom of the sign panel to the surface of the sidewalk.
5. Provide a 5' wide temporary walkway, except where space restrictions warrant a minimum width of 4'. Provide a 5' x 5' passing space for temporary walkways less than 5' in width at intervals not to exceed 200'.
6. Provide a cross-slope with a maximum value of 0.02 for all temporary walkways.
7. Maintain temporary walkway surfaces and ramps that are stable, firm, slip-resistant, and free of any obstructions or hazards such as holes, debris, mud, construction equipment, and stored material.
8. Remove temporary walkways immediately after reopening of the sidewalk, unless otherwise noted in the plans.
9. Meet the requirements of Index 522-002 for temporary curb ramps.
10. Place pedestrian longitudinal channelizing device(s) across the full width of the closed sidewalk. For temporary walkways, similar to the Sidewalk Diversion, place LCDs to delineate both sides of the temporary walkway.
11. For sidewalk diversions, ensure that there is sufficient R/W for placement of temporary sidewalk and pedestrian longitudinal channelizing devices.



CROSSWALK CLOSURE AND PEDESTRIAN DETOUR



SIDEWALK DETOUR



SIDEWALK DIVERSION

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LAST REVISION 11/01/17	REVISION	DESCRIPTION:
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**FY 2020-21
STANDARD PLANS**

PEDESTRIAN CONTROL FOR CLOSURE OF SIDEWALKS

Approved
 2020-D-191-00002
 Donna Carver
 8/5/2020
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Remove all pavement markings that will be in conflict with “next phase of operation” vehicle pedestrian paths as described above, before opening to vehicle traffic or use by pedestrians.

Cost for removing conflicting pavement markings (paint, tape, thermoplastic, raised pavement markers, etc.) to be included in Maintenance of Traffic, Lump Sum.

102-5.9 Vehicle and Equipment Visibility: Equip all pickups and automobiles used on the project with a minimum of one Class 2 warning light that meets the Society of Automotive Engineers Recommended Practice SAE J595, dated November 1, 2008, or SAE J845, dated December 1, 2007, and incorporated herein by reference. Existing lights that meet SAE J845, dated March, 1992, or SAE J1318, dated April, 1986, may be used to their end of service life. The warning lights shall be a high intensity amber or white rotating, flashing, oscillating or strobe light. Lights shall be unobstructed by ancillary vehicle equipment such as ladders, racks or booms. If the light is obstructed, additional lights will be required. The lights shall be operating when a vehicle is in a work area where a potential hazard exists, when operating the vehicle at less than the average speed for the facility while performing work activities, making frequent stops or called for in the Plans or Design Standards.

Equip all other vehicles and equipment with a minimum of 4 square feet of retroreflective sheeting or warning lights.

102-5.10 No Waiver of Liability: Conduct operations in such a manner that no undue hazard results due to the requirements of this Article. The procedures and policies described herein in no way acts as a waiver of any terms of the liability of the Contractor or his surety.

102-6 Detours.

102-6.1 General: Construct and maintain detour facilities wherever it becomes necessary to divert traffic from any existing roadway or bridge, or wherever construction operations block the flow of traffic.

102-6.2 Construction: Plan, construct, and maintain detours for the safe passage of traffic in all conditions of weather. Provide the detour with all facilities necessary to meet this requirement. Where pedestrian facilities are detoured, blocked or closed during the work, provide safe alternate accessible routes through or around the work zone meeting the requirements of the ADA Standards for Transportation Facilities.

When the Plans call for the Department to furnish detour bridge components, construct the pile bents in accordance with the Plans, unless otherwise authorized by the Engineer.

Submit a letter with the following: company name, phone number, office address, project contact person, project number, detour bridge type, bridge length, span length, location and usage time frames, to the Engineer at least 30 calendar days before the intended pick-up date, to obtain the storage facility location and list of components for the project. Upon receipt of letter, the Engineer will, within ten calendar days provide an approved material list to the Contractor and the appropriate Department storage yard.

Provide a letter with an original company seal, identifying the representative with authority to pick up components, to the Engineer at least 10 calendar days before the proposed pick-up date. The Department is not obligated to load the bridge components without this notice. Take responsibility and sign for each item loaded at the time of issuance.

Provide timber dunnage, and transport the bridge components from the designated storage facility to the job site. Unload, erect, and maintain the bridge, then dismantle the bridge and load and return the components to the designated storage facility.

Approved
2020-D-191-00002
Donna Carver
8/5/2020

FLORIDA DEPARTMENT OF TRANSPORTATION STORMWATER POLLUTION PREVENTION



The Law

The Federal Clean Water Act was established in 1972 to protect our waterways. As a result, the National Pollutant Discharge Elimination System (NPDES) program was developed. The NPDES permit program addresses water pollution by regulating point sources that discharge pollutants to surface waters. The Florida Department of Environmental Protection (FDEP) administers the NPDES program for Municipal Separate Storm Sewer Systems (MS4) and Construction activities.

CONSTRUCTION ACTIVITIES

➤ **Is your construction site regulated?**

Yes, if your construction activity will ultimately disturb one acre or more and has the potential to discharge stormwater to surface waters or into a MS4. Disturbance includes clearing, grading, excavation, and demolition.

➤ **What are you required to do?**

- ✓ Prepare and implement a Stormwater Pollution Prevention Plan (SWPPP)
- ✓ Submit a Notice of Intent (NOI or application) and the appropriate fee to FDEP
- ✓ Submit a Notice of Termination (NOT) to FDEP and to the local MS4 once the site meets the eligibility requirements for termination

For more information on NPDES Stormwater Construction Activities, contact FDEP for more information at (866) 336-6312 or visit <http://www.dep.state.fl.us/water/stormwater/index.htm>.

HOW CAN YOU HELP STOP STORMWATER POLLUTION?

- ✓ Do not pour oil or any chemicals down any storm drain or in the street
- ✓ Use fertilizers and herbicides carefully and only use the recommended amount*
- ✓ Report illicit discharges**
- ✓ Recycle used oil and dispose of chemicals properly. For more information on the proper disposal of wastes contact FDEP at (850) 245-8707 or visit: <http://www.dep.state.fl.us/waste/categories/hwRegulation/>
- ✓ Maintain proper sediment and erosion controls on your construction site



*Contact your County Agricultural Extension Office for answers to your pest and weed problems.				** Illicit Discharges: Report any material other than stormwater being discharged into a storm drain or into the street.	
County Agricultural Extension Office				County / FDOT Environmental Contacts	
Charlotte Co.	(941) 764-4340	Highlands Co.	(863) 402-6540	Charlotte Co.	(941) 575-3632
Collier Co.	(239) 252-4800	Lee Co.	(239) 533-7505	Highlands Co.	(863) 402-6500
DeSoto Co.	(863) 993-4846	Manatee Co.	(941) 722-4524	Lee County	(239) 533-9400
Glades Co.	(863) 946-0244	Okeechobee Co.	(863) 763-6469	Manatee County	(941) 748-4501
Hardee Co.	(863) 773-2164	Polk Co.	(863) 519-8677	Polk County	(863) 534-7377
Hendry Co.	(863) 674-4092	Sarasota Co.	(941) 861-9900	Sarasota County	(941) 861-5000
				FDOT Right of Way	(863) 519-2762
FDOT MAINTENANCE YARDS			SPILL REPORTING	State Watch Office (Spill Report Hotline typically 25 gallons or more)	(800) 320-0519
Arcadia Operations	(863) 993-4634				
Bartow Operations	(863) 519-4100				
Fort Myers Operations	(239) 985-7800				
Labelle Operations	(863) 674-4027				
Manatee Operations	(941) 708-4400				
Sebring Operations	(863) 386-6104				
				For more information on NPDES stormwater regulations, please contact, FDOT District Maintenance, at (863) 519-2762	