

CONTRACT PLANS COMPONENTS

ROADWAY PLANS

# FOR BID PURPOSES ONLY

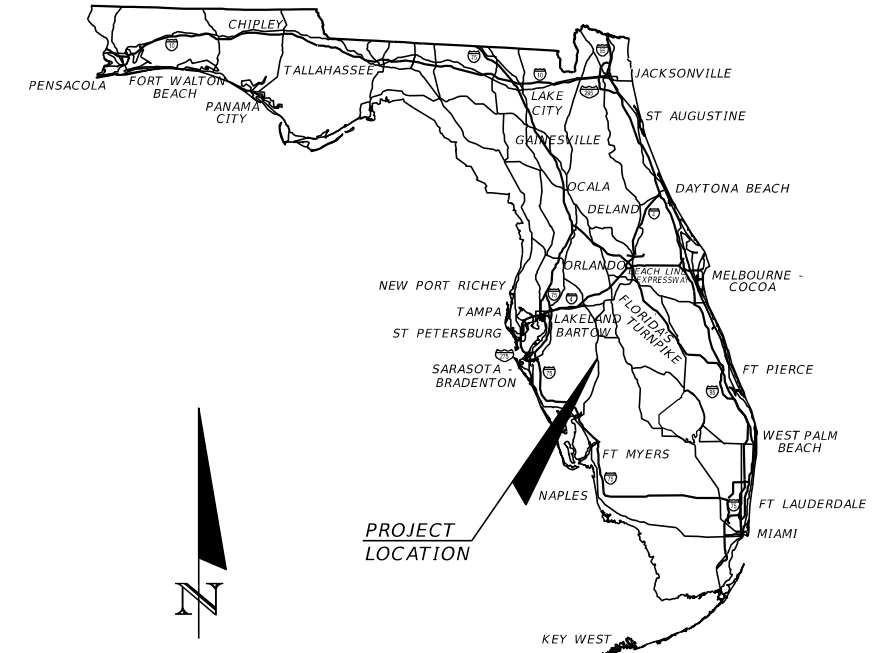
CITY OF WAUCHULA

## CONTRACT PLANS

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

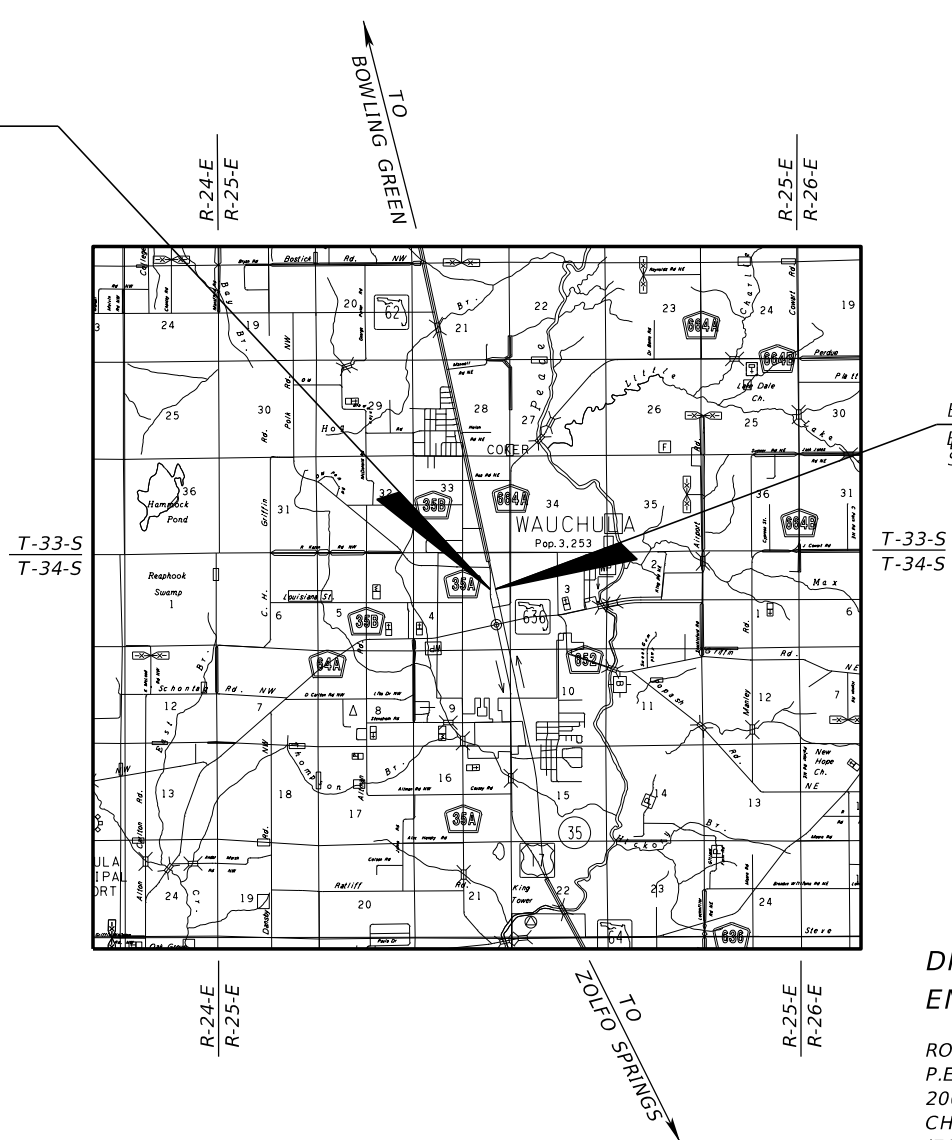
INDEX OF ROADWAY PLANS

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
49	SOIL MANAGEMENT PLAN
50 - 54	EROSION CONTROL AND SURFACE WATER IMPACT PLANS
55	EROSION CONTROL DETAILS
56 - 57	TEMPORARY TRAFFIC CONTROL PLANS
58 - 62	UTILITY ADJUSTMENT SHEETS
63 - 64	UTILITY ADJUSTMENT DETAILS
65 - 69	SIGNING AND PAVEMENT MARKING SHEETS



BEGIN PROJECT  
CONST.  
STA. 10+13.77

END PROJECT  
CONST.  
STA. 36+44.00



GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2020-21 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 2020 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:

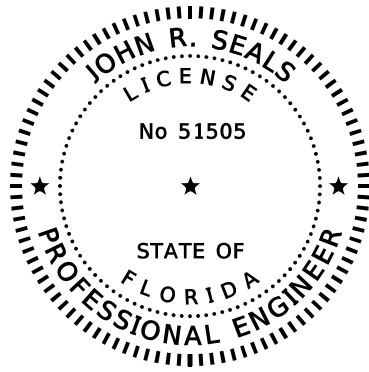
JOHN SEALS, P.E.  
P.E. NO.: 51505  
655 N FRANKLIN STREET, SUITE 150  
TAMPA, FL 34236  
(813) 620-1460  
CERTIFICATE OF AUTHORIZATION NO.: 696

FINAL PLANS  
DECEMBER 21, 2020

SHEET NO.

1

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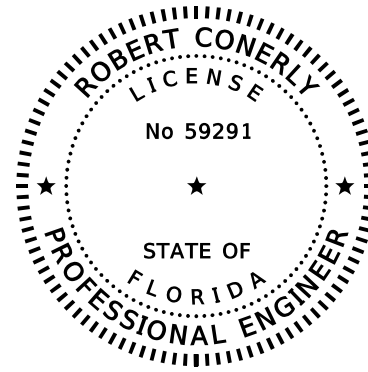
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KIMLEY-HORN AND ASSOCIATES, INC.  
655 N FRANKLIN STREET, SUITE 150  
TAMPA, FL 33602  
(813) 627-1460  
CERTIFICATE OF AUTHORIZATION: 696  
JOHN R. SEALS, P.E. NO.: 51505

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

ROADWAY PLANS

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ROBERT CONERLY, P.E. NO.:59291

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ROADWAY PLANS

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6 - 7	SUMMARY OF DRAINAGE STRUCTURES
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45 - 47	STORMWATER POLLUTION PREVENTION PLANS
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55	EROSION CONTROL DETAILS
58 - 62	UTILITY ADJUSTMENT SHEETS
63 - 64	UTILITY ADJUSTMENT DETAILS

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

*SIGNATURE SHEET*

SHEET  
NO.

2

SUMMARY OF PAY ITEMS			
ITEM NUMBER	DESCRIPTION	UNIT	QTY.
<b>ROADWAY/DRAINAGE PAY ITEMS</b>			
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	4.36
110-4-10	REMOVAL OF EXISTING CONCRETE	SY	233
120-1	REGULAR EXCAVATION	CY	535.3
120-6	EMBANKMENT	CY	375.4
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	352.3
400-1-2	CONCRETE CLASS I, ENDWALL	CY	3.3
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	8
430-175-118	PIPE CULVERT OPTIONAL MATERIAL, ROUND, 18", S/CD	LF	261
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	74
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
430-982-633	MITERED END SECTION, OPTIONAL - ELLIPTICAL / ARCH, 30" CD	EA	1
430-984-625	MITERED END SECTION, OPTIONAL - ELLIPTICAL / ARCH, 18" SD	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
1050 31206	UTILITY PIPE - POLY VINYL CHLORIDE, F&I, WATER, 6"	LS	1
16444800	FIRE HYDRANT, RELOCATE	EA	1
<b>SIGNING AND PAVEMENT MARKING PAY ITEMS</b>			
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	AS	2
700-1-50	SINGLE POST SIGN, RELOCATE	AS	4
700-1-60	SINGLE POST SIGN, REMOVE	AS	1
706-3	RETRO-REFLECTIVE PAVEMENT MARKERS	EA	60
710-11-123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 12"	LF	373
710-11-125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 24"	LF	111
710-11-201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM	0.137
711-11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12"	LF	373
711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24"	LF	111
711-16-201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	GM	0.137

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KIMLEY-HORN AND ASSOCIATES, INC.  
 JOHN SEALS, P.E.  
 P.E. LICENSE NUMBER 51505  
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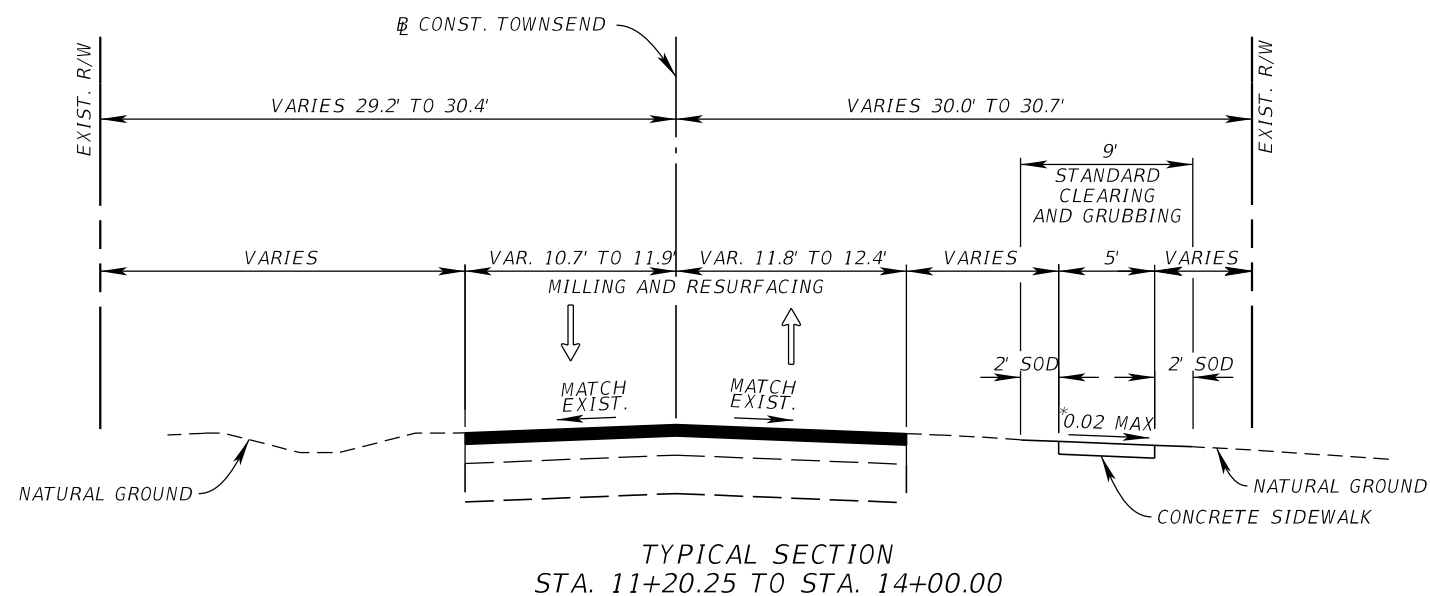
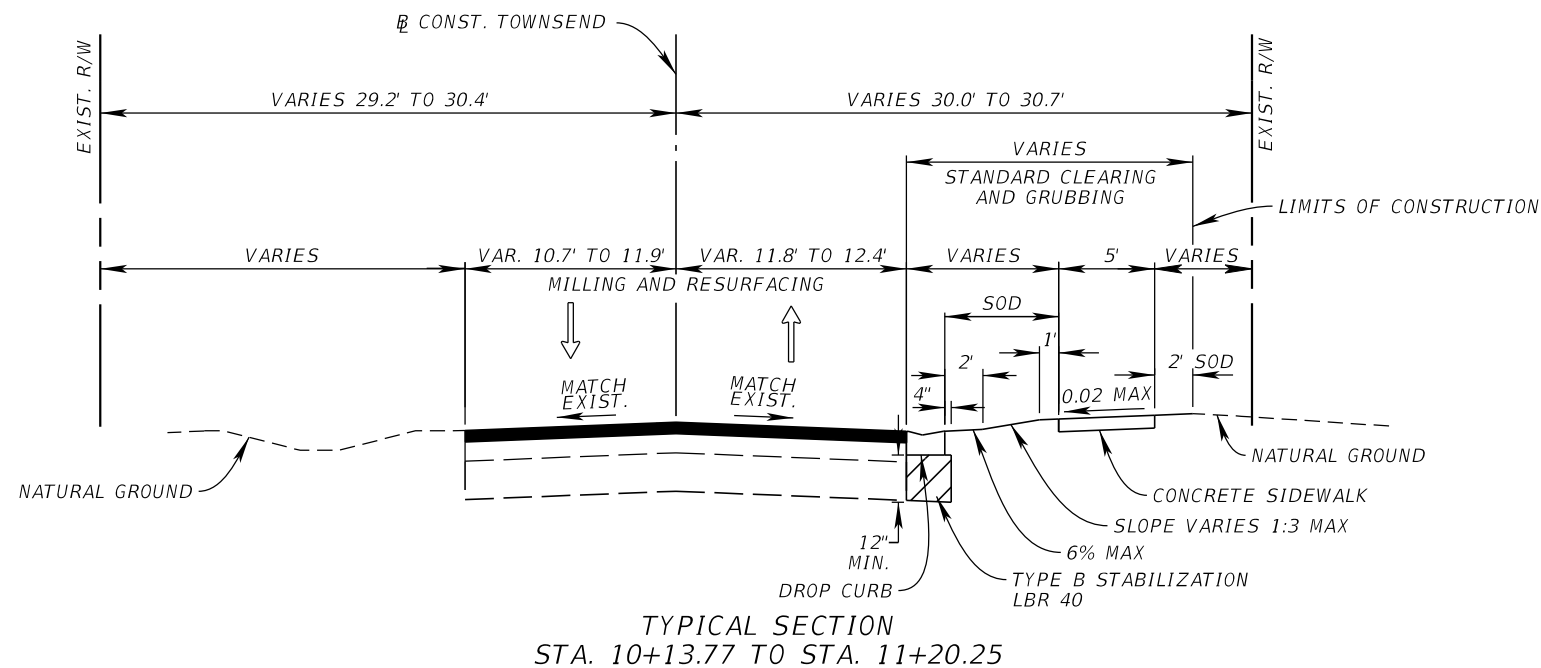
TOWNSEND STREET ROADWAY  
 AND STORMWATER IMPROVEMENTS

CITY OF	COUNTY
WAUCHULA	HARDEE

*SUMMARY OF PAY ITEMS*

SHEET NO.  
3

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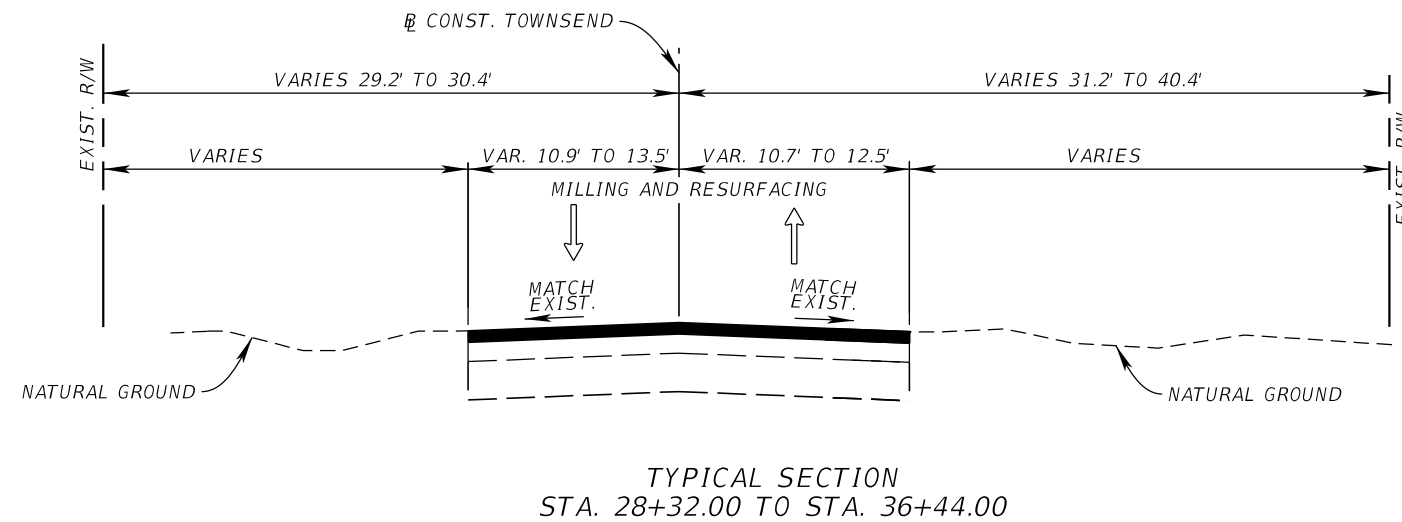
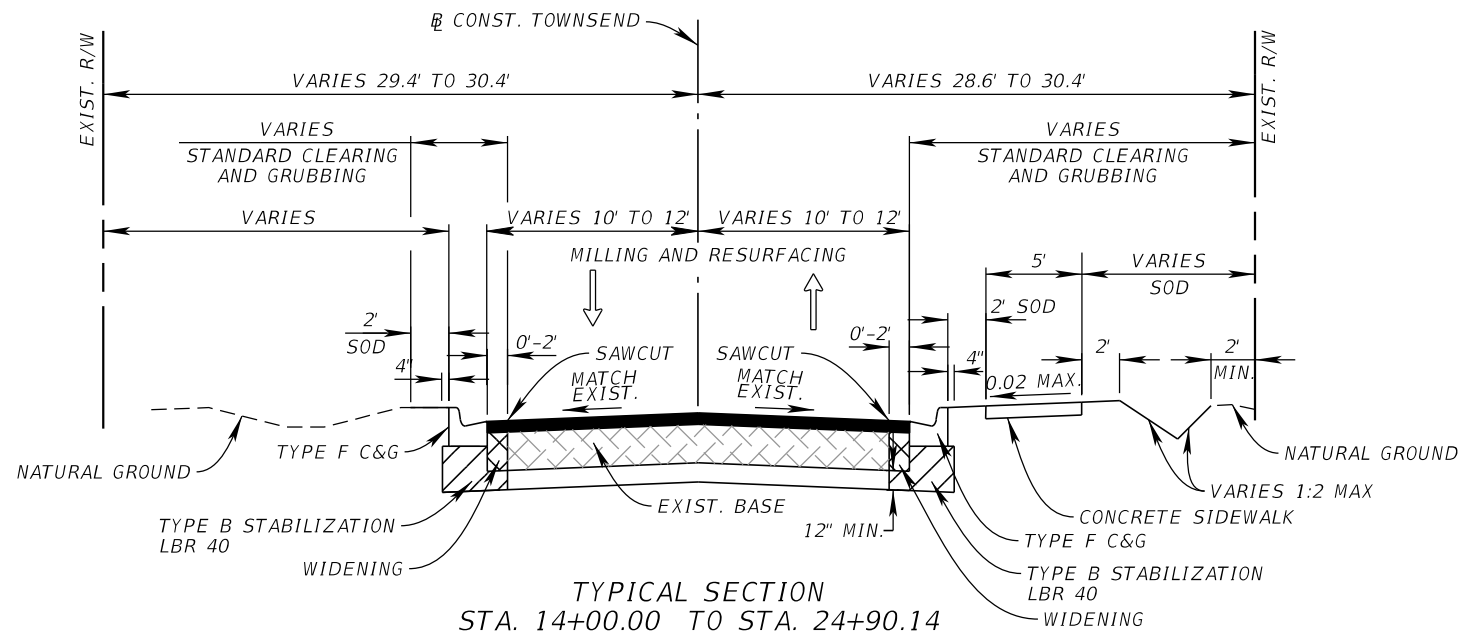


<b>MILLING</b>
MILL EXISTING ASPHALT PAVEMENT (1.00" DEPTH)
<b>RESURFACING</b>
STRUCTURAL COURSE, TYPE SP-9.5 (TRAFFIC C) (1.00")
<b>DRIVEWAYS</b>
CONCRETE (6.00")

\*SLOPE DIRECTION VARIES SEE CROSS SECTIONS

DESIGN SPEED = 30 MPH  
POSTED SPEED = 25 MPH

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.  4
DATE	DESCRIPTION	DATE	DESCRIPTION		CITY OF	COUNTY	
					WAUCHULA	HARDEE	<b>TYPICAL SECTIONS</b>



<b>MILLING</b>
MILL EXISTING ASPHALT PAVEMENT (1.00" DEPTH)
<b>RESURFACING</b>
STRUCTURAL COURSE, TYPE SP-9.5 (TRAFFIC C) (1.00")
<b>WIDENING</b>
OPTIONAL BASE GROUP 5 STRUCTURAL COURSE, TYPE SP-12.5 (TRAFFIC C) (1.50")
<b>DRIVEWAYS</b>
CONCRETE (6.00")

DESIGN SPEED = 30 MPH  
POSTED SPEED = 25 MPH

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		<b>TYPICAL SECTIONS</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		CITY OF	COUNTY		5
				WAUCHULA	HARDEE			

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									
							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"	24"X38"		14"X23"	TYPE 1
P F	S-201	15+85.60	26.48	RT.	DITCH BOTTOM	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										
P F	S-204	17+90.58	20.62	RT.	CURB INLET	1								1													CONC. JACKET		
P F	S-205	18+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')			
P F	S-301	20+76.21	25.59	RT.	DITCH BOTTOM	1													1								ROUND BOTTOM (6' DIA) CIP		
P F	S-302	24+47.05	26.03	RT.	DITCH BOTTOM	1			8										1								J BOTTOM (4'X8'), CIP, CONC. JACKET (2)		
P F	S-304	24+48.04	15.05	RT.	CLOSED FLUME	1																	1			EROSION CONTROL MATTING (5'X10')			
P F	S-306	21+88.40	24.25	LT.	DITCH BOTTOM	1					37								1										
P F	S-307	23+61.62	22.53	LT.	DITCH BOTTOM	1				76									1										
SUMMARY:							4	4	152	0	248	0	189	138	74	0	0	1	2	0	4	5	2	0	0	0	0	4	0

<table border="1"> <thead> <tr> <th colspan="4">REVISIONS</th> </tr> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				REVISIONS				DATE	DESCRIPTION	DATE	DESCRIPTION					KIMLEY-HORN AND ASSOCIATES, INC. ROBERT CONERLY, P.E. P.E. LICENSE NUMBER 59291 200 SOUTH TRYON STREET, SUITE 200 CHARLOTTE, NC 28202 PHONE (704) 333-5131 CERTIFICATE OF AUTHORIZATION NO. 696	<b>TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS</b> CITY OF WAUCHULA COUNTY HARDEE	<b>SUMMARY OF DRAINAGE STRUCTURES</b>	SHEET NO. 6
REVISIONS																			
DATE	DESCRIPTION	DATE	DESCRIPTION																

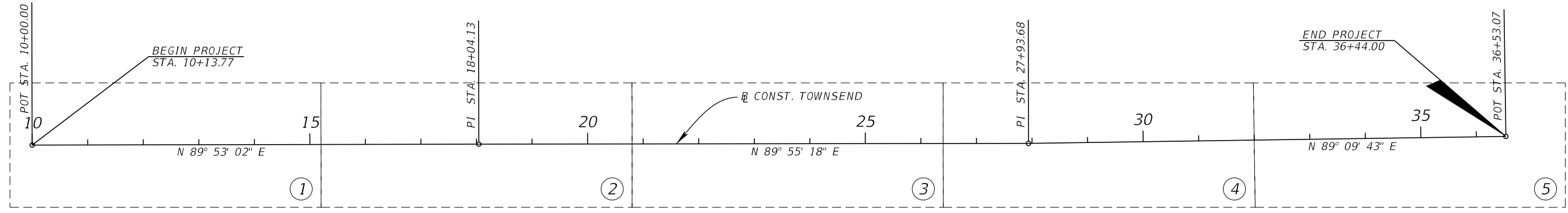
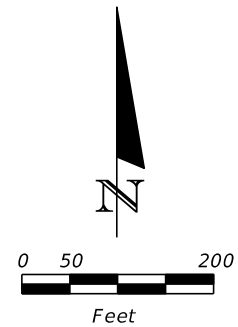
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QUANTITY	STR. NO.	STATION	OFFSET	SIDE	DESCRIPTION	BARRELS	STORM PIPE						SD PIPE	CURB INLETS			MANHOLES	DITCH BOTTOM INLETS			CD MES			SD MES	CLOSED FLUME INLET	ENDWALL	REMARKS			
							ROUND			ELLIPTICAL			ELLIPTICAL	P-6	P-8	P-10	J-7	C	D	D	14"X23"	24"	24"X38"	14"X23"	TYPE 1	30"				
							12"	15"	18"	24"	30"	36"	12"X18"	14"X23"	24"X38"	14"X23"	<10'	TOP	<10'	<10'								<10'	<10'	J Bot, < 10'
P F	S-308	24+40.00	24.5	LT.	DITCH BOTTOM	1					32									1								CIP		
P F	S-309	25+47.21	29.75	LT.	MANHOLE	1			75		4	4						1										J BOTTOM (5'x5') CONC. JACKET (2)		
P F	S-310	26+23.03	26.75	LT.	DITCH BOTTOM	1			12										1											
P F	S-311	22+28.17	24.33	LT.	CD MES	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+26.51	43.47	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			14										1								ROUND BOTTOM (6.0' DIA) CONC. JACKET			
P F	S-403	28+19.83	27.16	RT.	DITCH BOTTOM	1				170									1								ROUND 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					1											ROUND BOTTOM (5.0' DIA)			
P F	S-500	31+33.46	24.52	RT.	MANHOLE	1				311						1											ROUND BOTTOM (5.0' DIA)			
P F	S-501	34+48.42	15.37	RT.	MANHOLE	1				121						1											ROUND BOTTOM (5.0' DIA)			
P F	S-502	35+16.00	100.39	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	109	827	94	4	0	23	0	29	1	0	0	5	0	4	2	2	1	1	2	0	1	

SHEET TOTALS - PLAN QUANTITY	4	8	261	827	342	4	189	161	74	29	1	1	2	5	4	9	4	2	1	1	2	4	1	0
SHEET TOTALS - FINAL QUANTITY																								

REVISIONS				KIMLEY-HORN AND ASSOCIATES, INC. ROBERT CONERLY, P.E. P.E. LICENSE NUMBER 59291 200 SOUTH TRYON STREET, SUITE 200 CHARLOTTE, NC 28202 PHONE (704) 333-5131 CERTIFICATE OF AUTHORIZATION NO. 696	TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS		<b>SUMMARY OF DRAINAGE STRUCTURES</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		CITY OF	COUNTY		7
					WAUCHULA	HARDEE		

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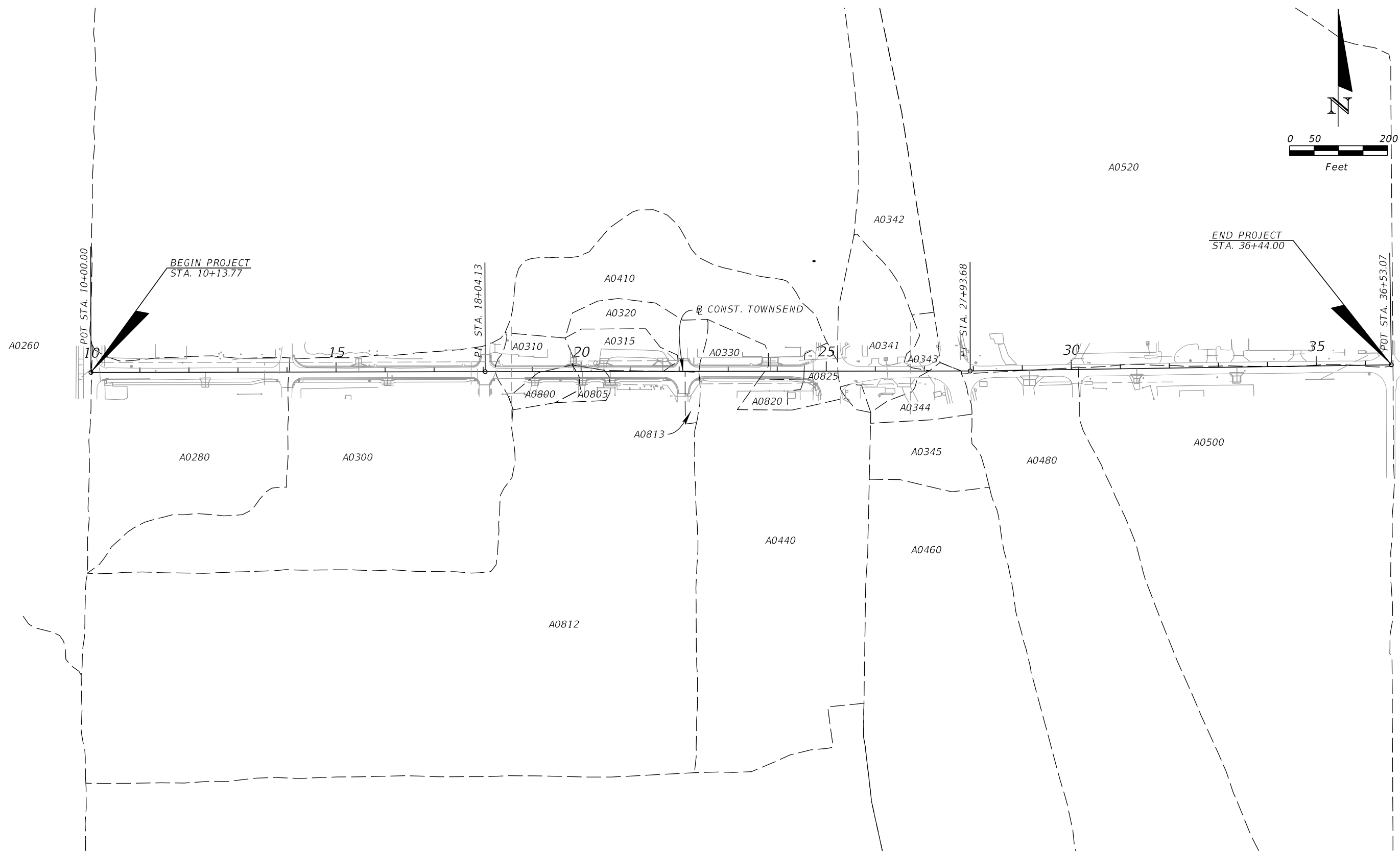
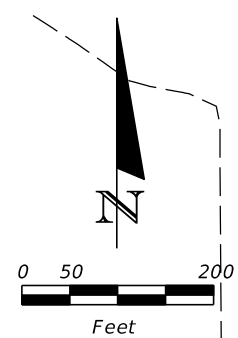
CONTROL TABLE						
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION	STATION	OFFSET
100	1170646.81	715357.27	121.66	CP SIRC	10+83.95	14.51 RT.
101	1170617.23	715843.12	118.89	CP SIRC	15+69.74	16.06 RT.
102	1170618.7	716232.38	114.48	CP SIRC	19+59.02	15.27 RT.
103	1170615.24	716728.59	107.96	CP SIRC	24+55.22	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

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.
DATE	DESCRIPTION	DATE	DESCRIPTION		CITY OF	COUNTY		8
					WAUCHULA	HARDEE		

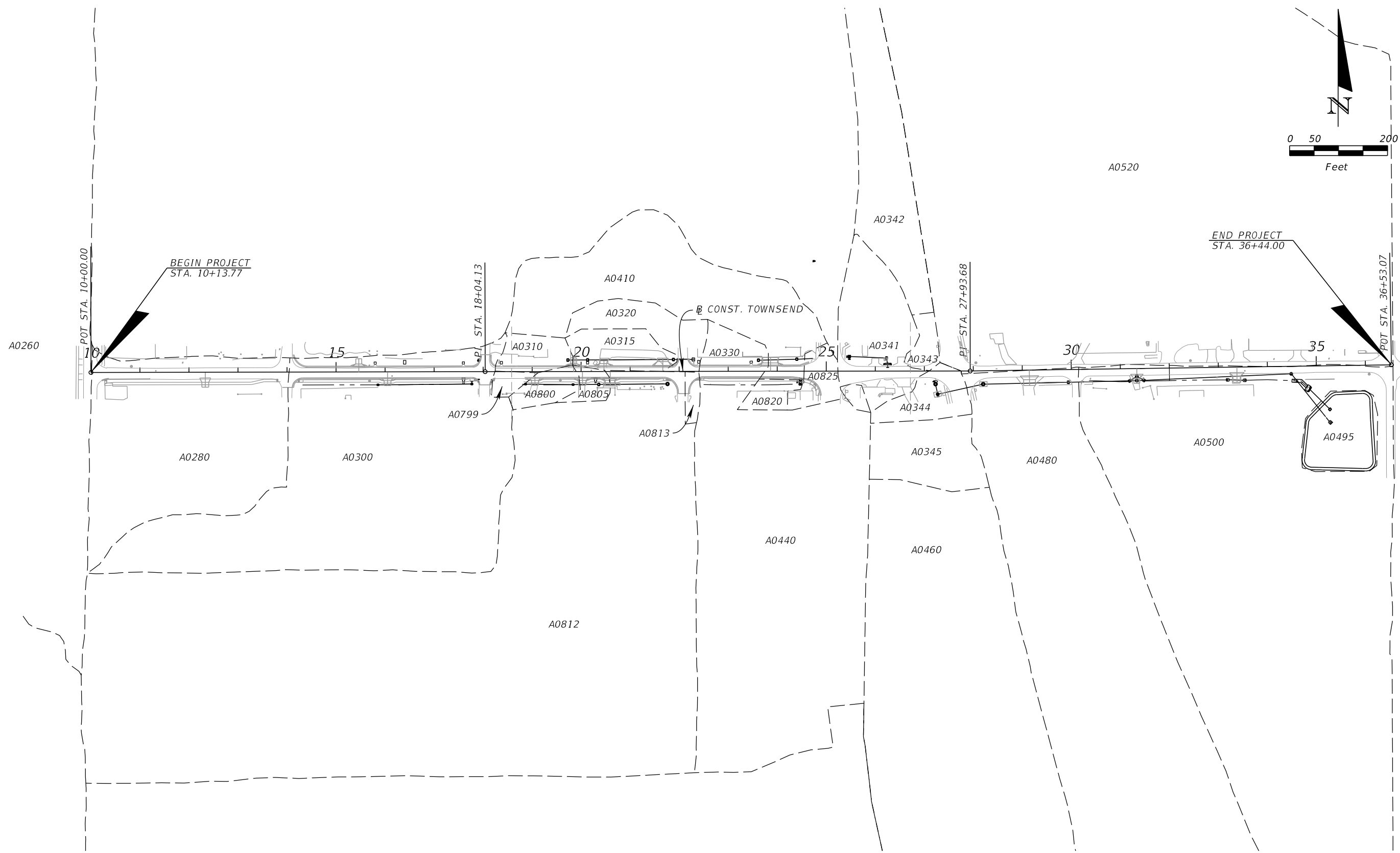
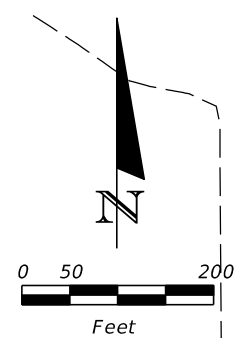
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.





REVISIONS				KIMLEY-HORN AND ASSOCIATES, INC. ROBERT CONERLY, P.E. P.E. LICENSE NUMBER 59291 200 SOUTH TRYON STREET, SUITE 200 CHARLOTTE, NC 28202 PHONE (704) 333-5131 CERTIFICATE OF AUTHORIZATION NO. 696	TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS		<i>EXISTING BASIN MAP</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		CITY OF	COUNTY		9
					WAUCHULA	HARDEE		

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



REVISIONS				KIMLEY-HORN AND ASSOCIATES, INC. ROBERT CONERLY, P.E. P.E. LICENSE NUMBER 59291 200 SOUTH TRYON STREET, SUITE 200 CHARLOTTE, NC 28202 PHONE (704) 333-5131 CERTIFICATE OF AUTHORIZATION NO. 696	TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS		<i>PROPOSED BASIN MAP</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		CITY OF	COUNTY		10
					WAUCHULA	HARDEE		

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

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 AND STRUCTURES 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.

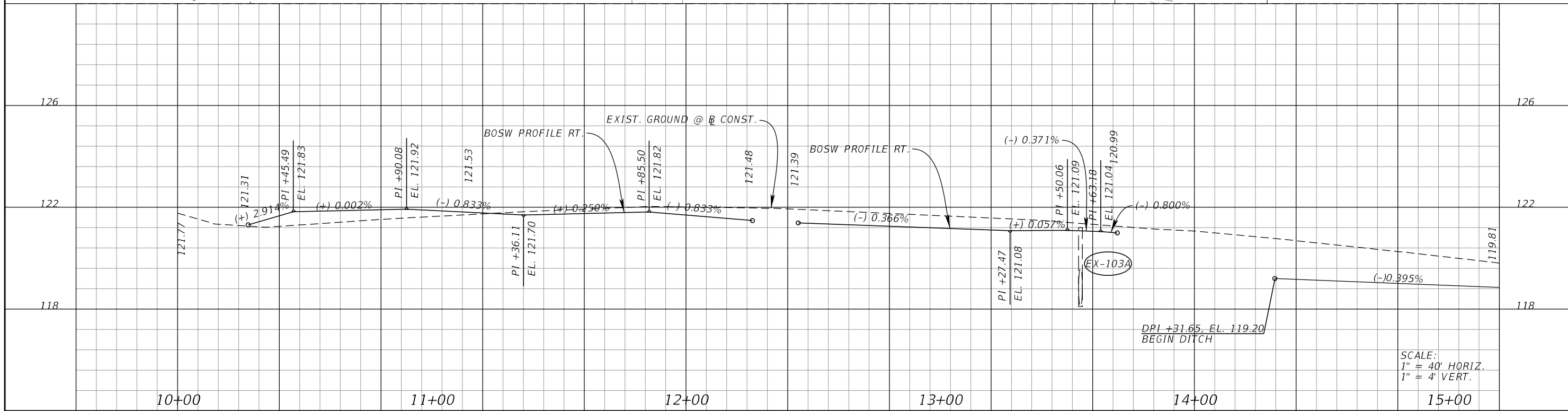
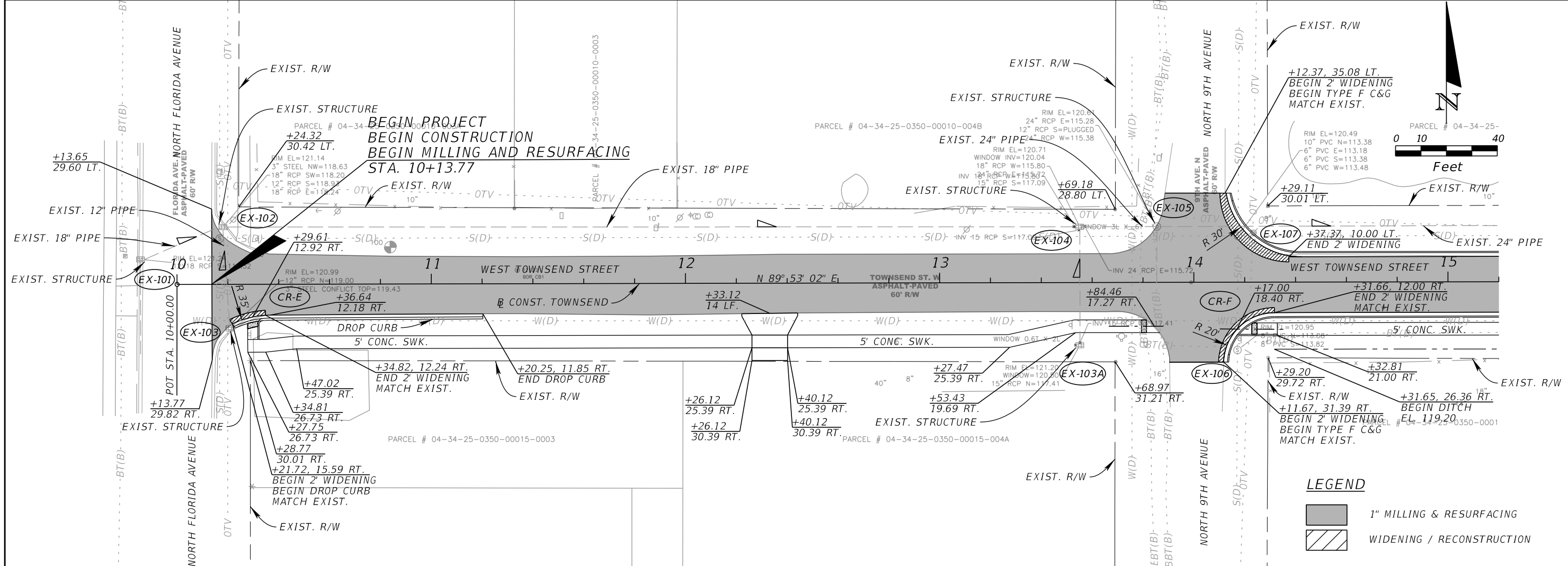
12. ANY AND ALL EXISTING CONDITIONS MUST BE FIELD VERIFIED PRIOR TO COMMENCING CONSTRUCTION. THE ENGINEER MUST BE PROMPTLY NOTIFIED OF ANY DISCREPANCIES.
13. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE 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	LYNN DUNDAS	239-896-6328
CITY OF WAUCHULA	ANDY MADDOX	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.
DATE	DESCRIPTION	DATE	DESCRIPTION		CITY OF	COUNTY		
					WAUCHULA	HARDEE		

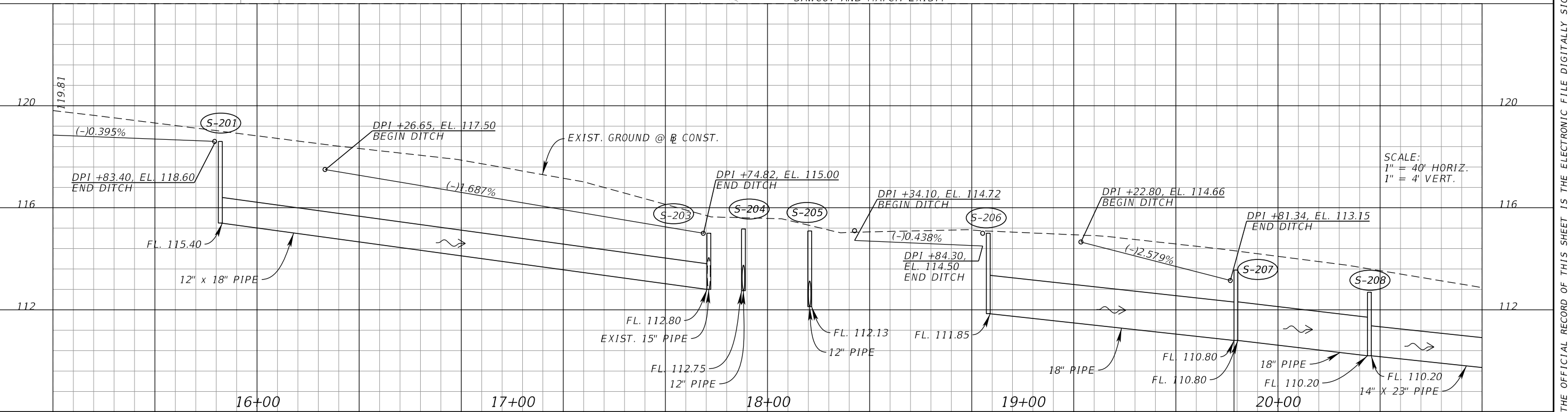
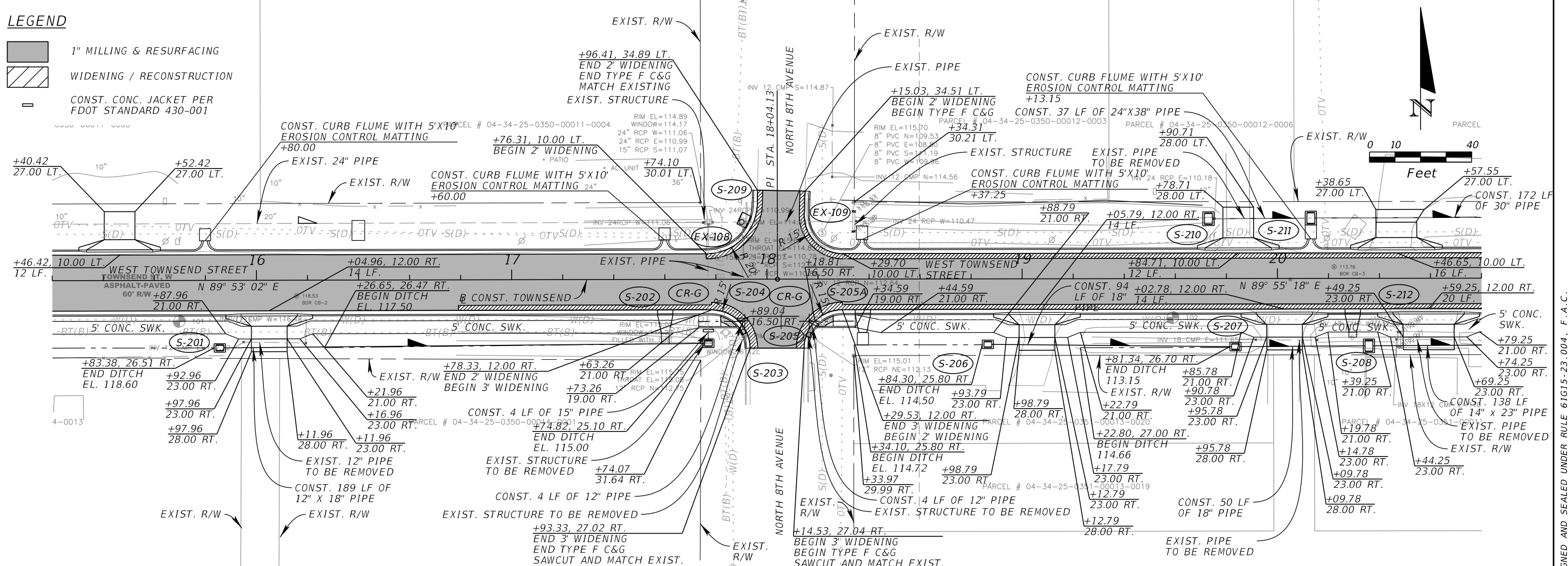


REVISIONS				KIMLEY-HORN AND ASSOCIATES, INC. JOHN SEALS, P.E. P.E. LICENSE NUMBER 51505 655 N FRANKLIN ST, SUITE 150 TAMPA, FL 33602 PHONE (813) 620-1460 CERTIFICATE OF AUTHORIZATION NO. 696	TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS		ROADWAY PLAN AND PROFILE (1)	SHEET NO. 12
DATE	DESCRIPTION	DATE	DESCRIPTION		CITY OF	COUNTY		
				WAUCHULA	HARDEE			

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**LEGEND**

-  1" MILLING & RESURFACING
-  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

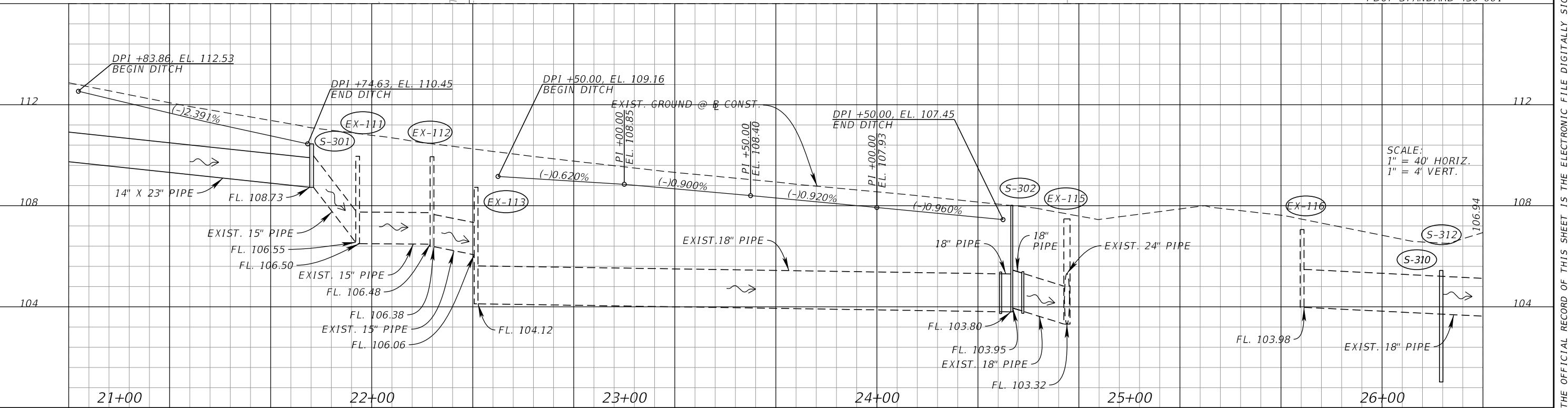
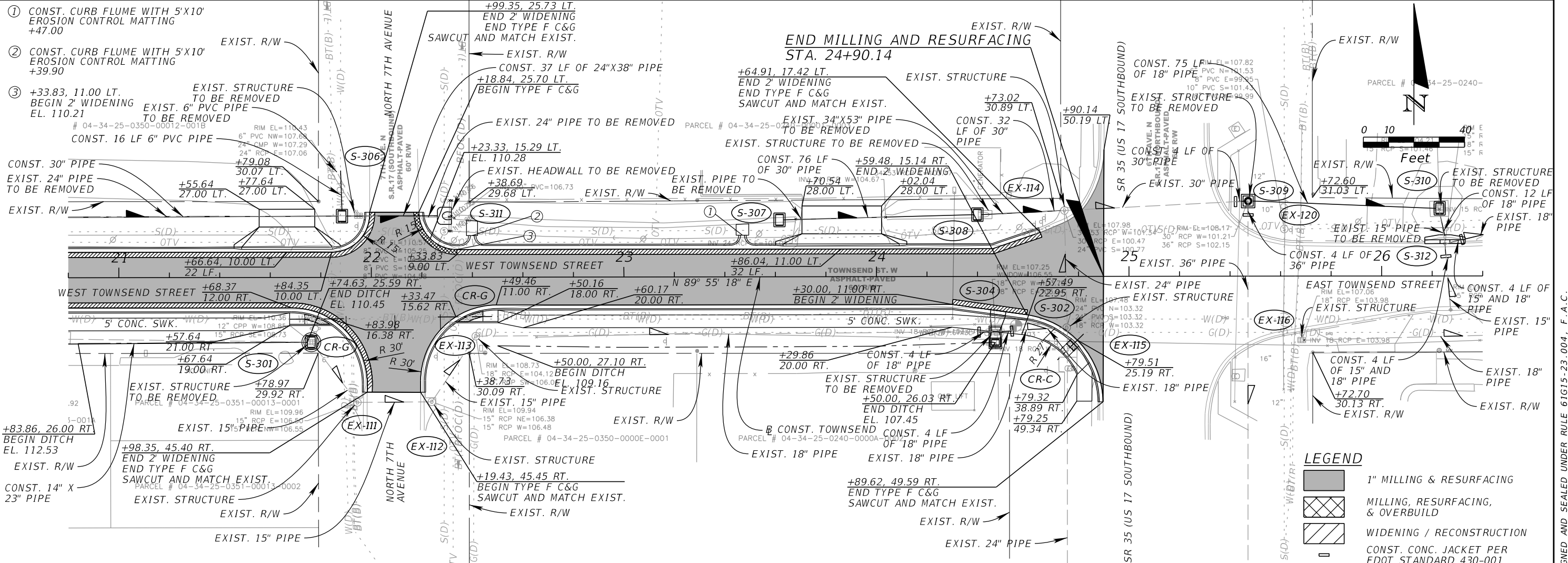
**TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS**

CITY OF WAUCHULA      COUNTY HARDEE

**ROADWAY PLAN AND PROFILE (2)**

SHEET NO. 13

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



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KIMLEY-HORN 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

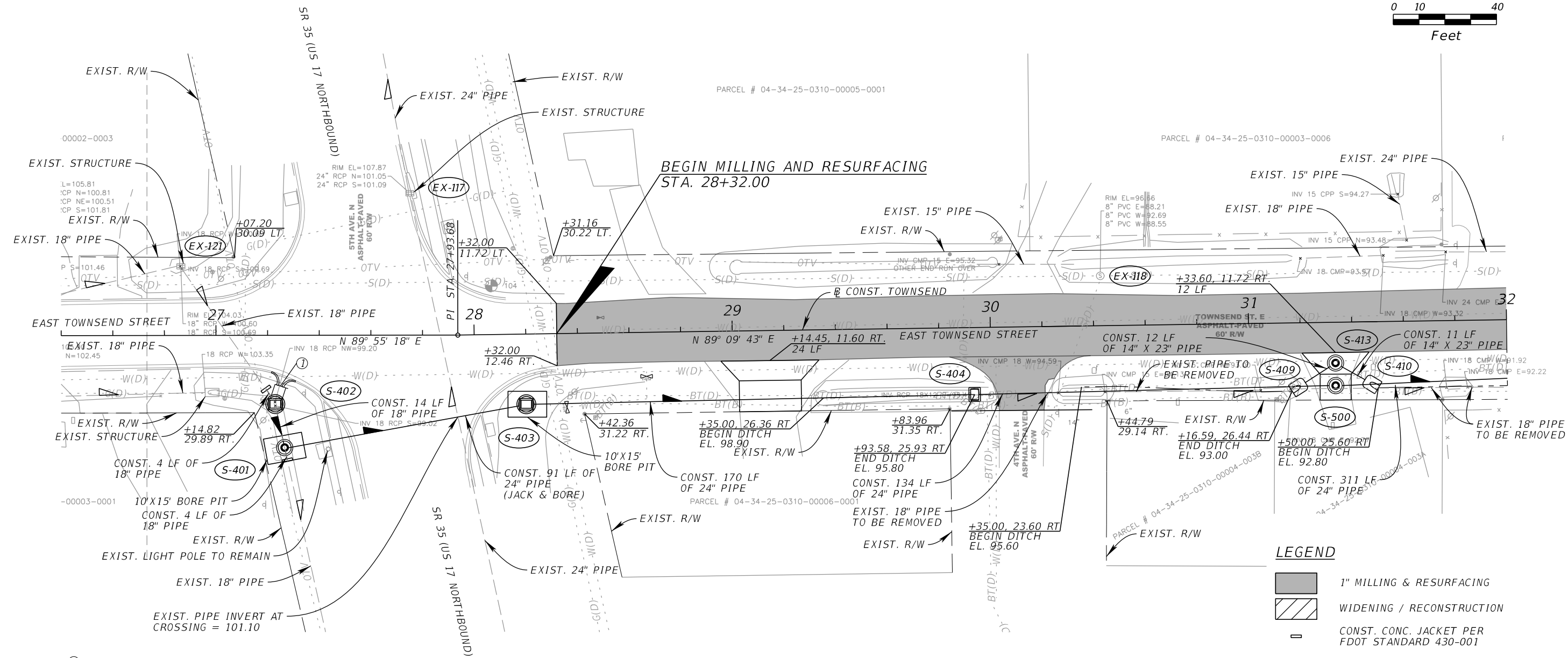
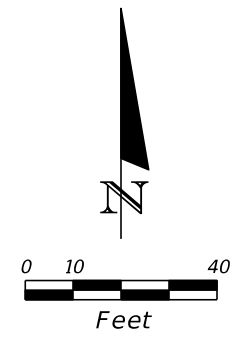
**TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS**

CITY OF	COUNTY
WAUCHULA	HARDEE

**ROADWAY PLAN AND PROFILE (5)**

SHEET NO. 14

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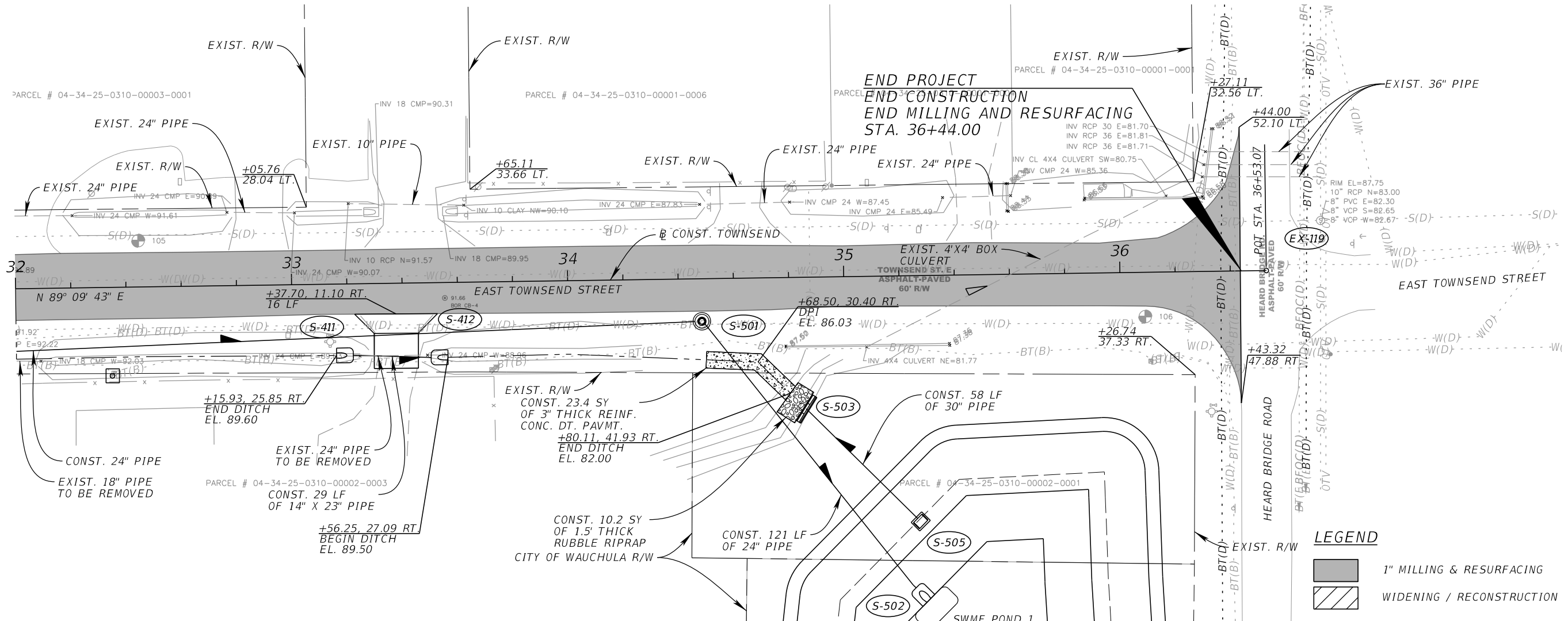
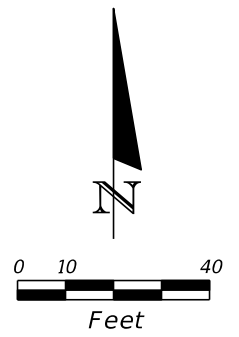
**LEGEND**

	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				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		ROADWAY PLAN (4A)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		CITY OF	COUNTY		
					WAUCHULA	HARDEE		15

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**LEGEND**

	1" MILLING & RESURFACING
	WIDENING / RECONSTRUCTION

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**

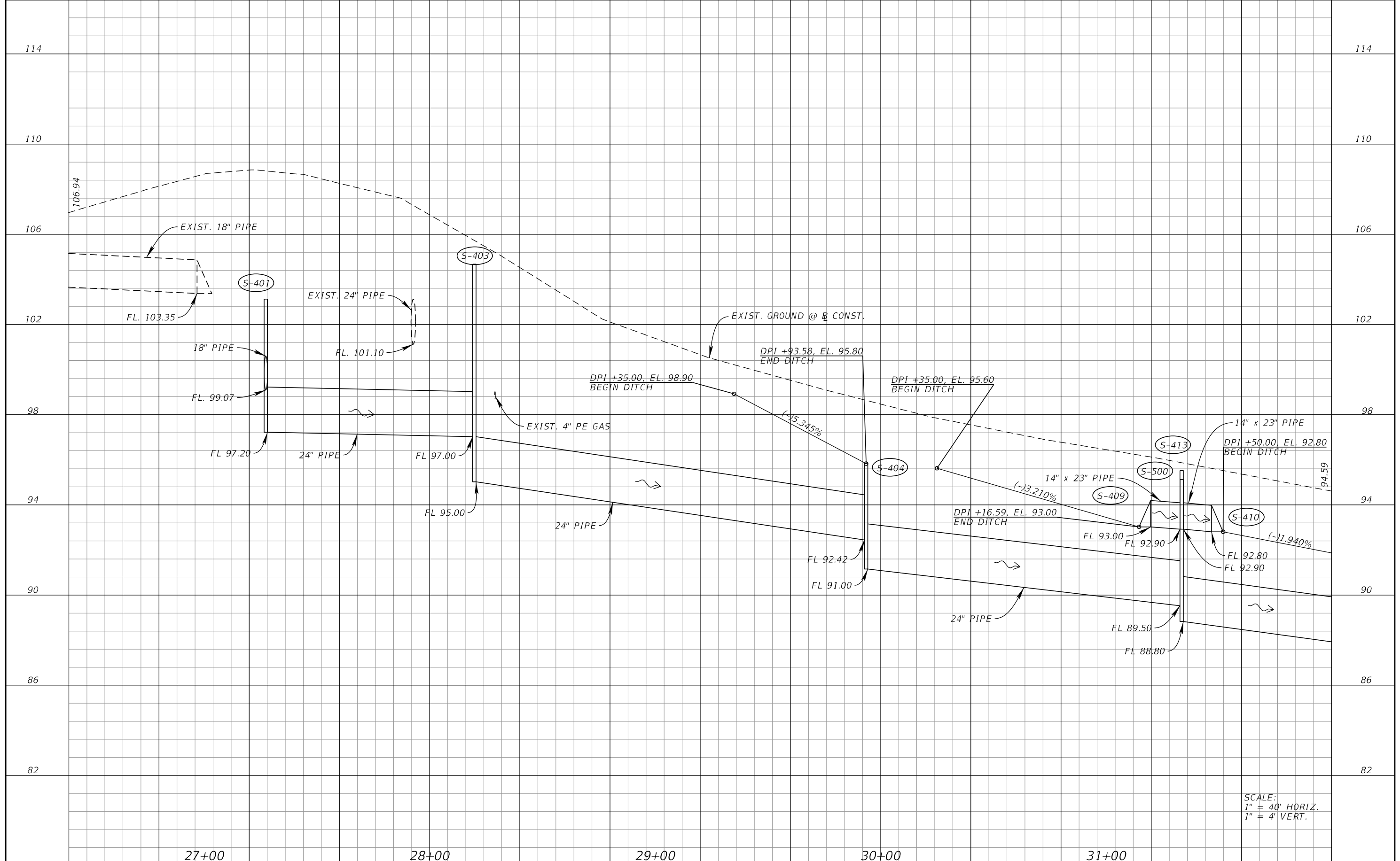
CITY OF	COUNTY
WAUCHULA	HARDEE

**ROADWAY PLAN (5A)**

SHEET NO.  
16

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

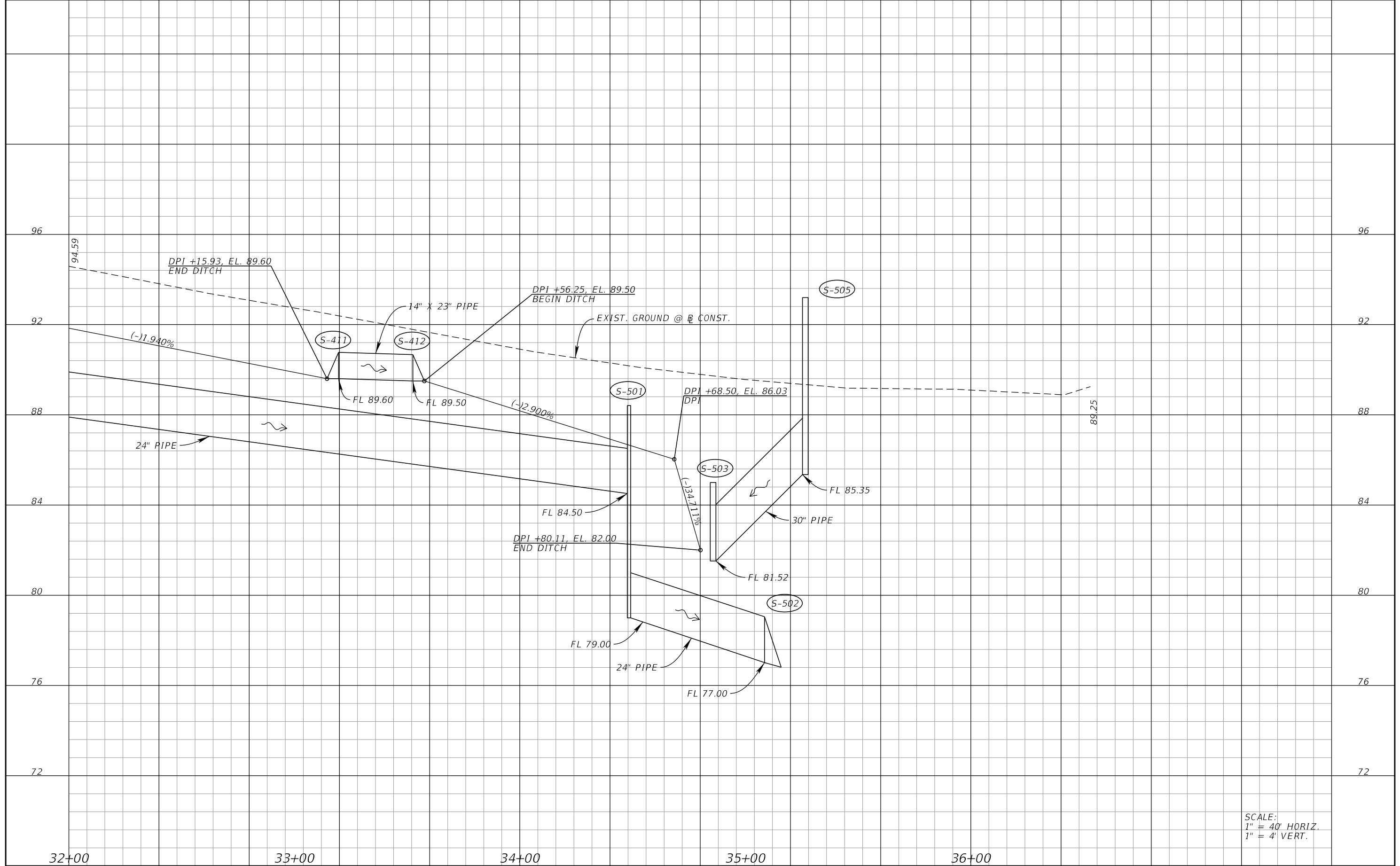
KIMLEY-HORN AND ASSOCIATES, INC.  
 JOHN SEALS, P.E.  
 P.E. LICENSE NUMBER 51505  
 655 N FRANKLIN ST, SUITE 150  
 TAMPA, FL 33602  
 PHONE (813) 620-1460  
 CERTIFICATE OF AUTHORIZATION NO. 696

**TOWNSEND STREET ROADWAY  
 AND STORMWATER IMPROVEMENTS**

CITY OF	COUNTY
WAUCHULA	HARDEE

**ROADWAY PROFILE (4B)**

SHEET NO.  
 17



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	COUNTY
WAUCHULA	HARDEE

**ROADWAY PROFILE (5B)**

SHEET NO.  
 18

EXISTING DRAINAGE STRUCTURES

PROPOSED 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

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, 23.47' 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'OX5.0' BOTTOM  
PER INDEX 425-001, 425-010  
RIM EL. = 108.13  
30" RCP W INV. = 101.21  
36" RCP S INV. = 102.15  
18" RCP E INV. = 101.20

S-310 STA. 26+23.03, 26.75' 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+28.17, 24.33' LT  
24" X 38" CD MES  
PER INDEX 430-021  
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  
18" RCP NE INV. = 100.51  
15" RCP S INV. = 101.81

S-401 STA. 27+26.51, 43.47' RT  
MY TYPE J-7 WITH 5.0' ROUND BOTTOM  
PER INDEX 425-011, 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. = 99.12

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. = 95.00

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

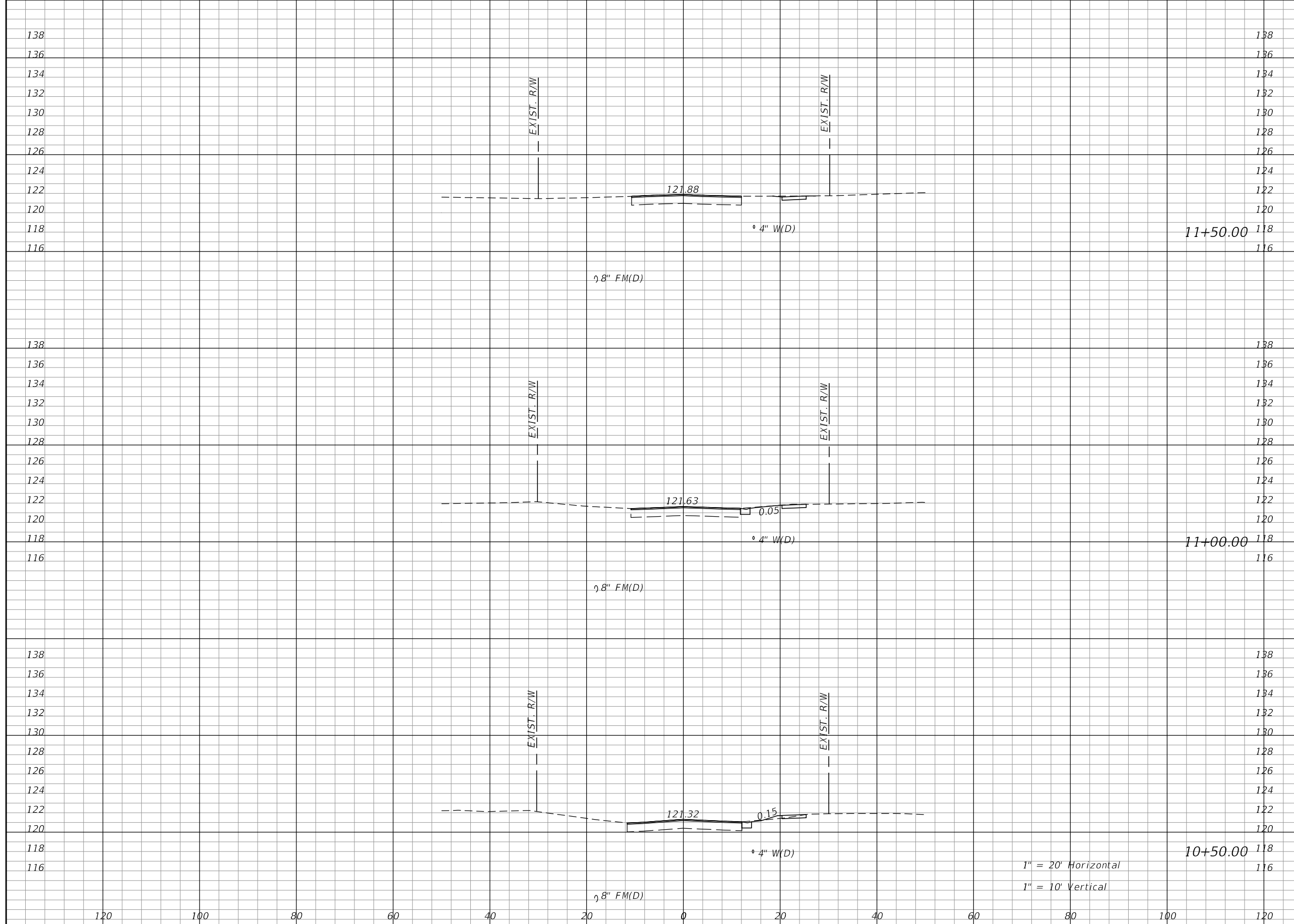
S-502 STA. 35+16.00, 100.39' RT  
24" CD MES  
PER INDEX 430-021  
18" RCP NW INV. = 77.00

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	KIMLEY-HORN AND ASSOCIATES, INC. ROBERT CONERLY, P.E. P.E. LICENSE NUMBER 59291 200 SOUTH TRYON STREET, SUITE 200 CHARLOTTE, NC 28202 PHONE (704) 333-5131 CERTIFICATE OF AUTHORIZATION NO. 696	TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS		<p><i>EXISTING AND PROPOSED DRAINAGE STRUCTURES</i></p>	<p>SHEET NO.  19</p>
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.



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

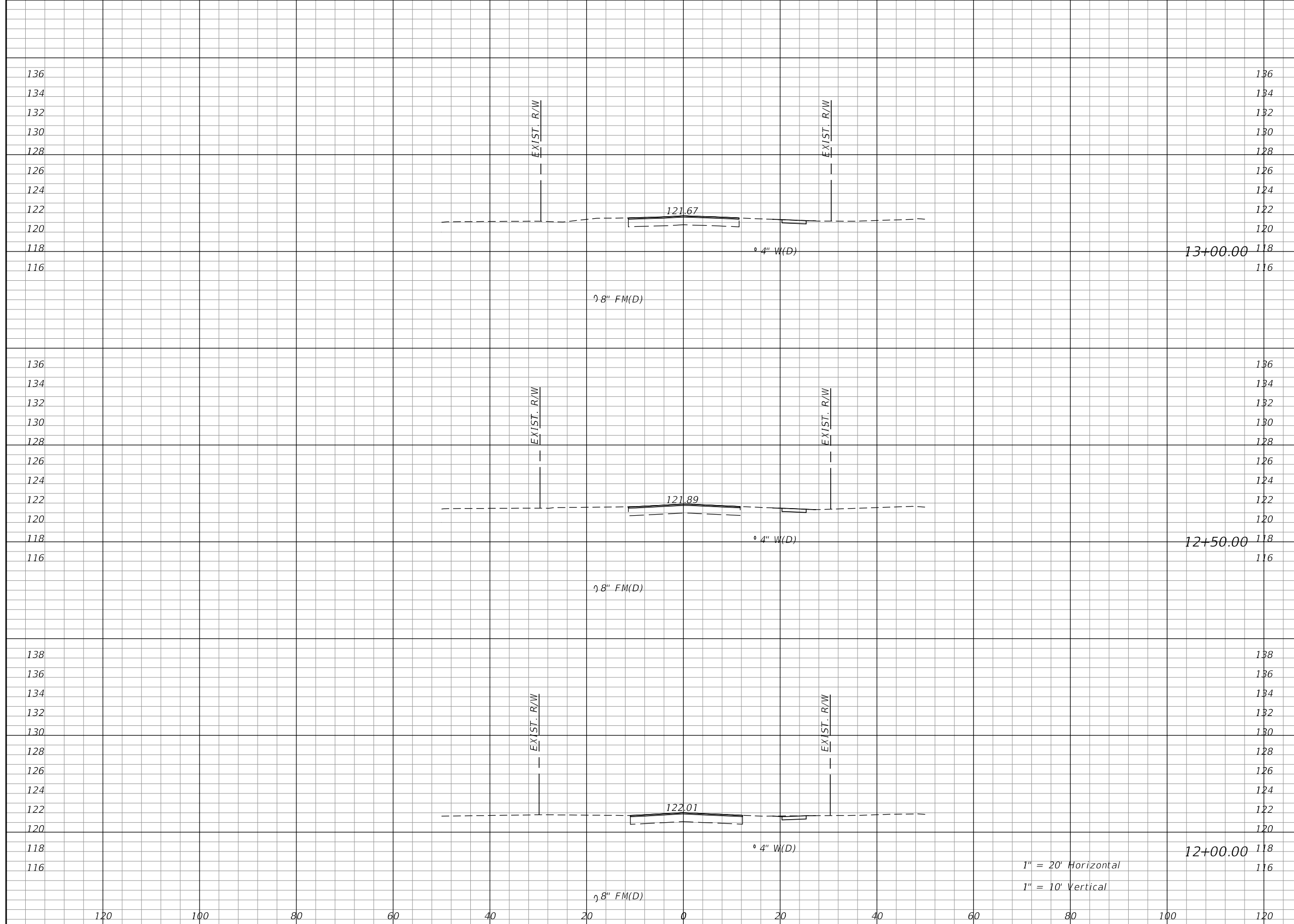
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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. 20



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

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

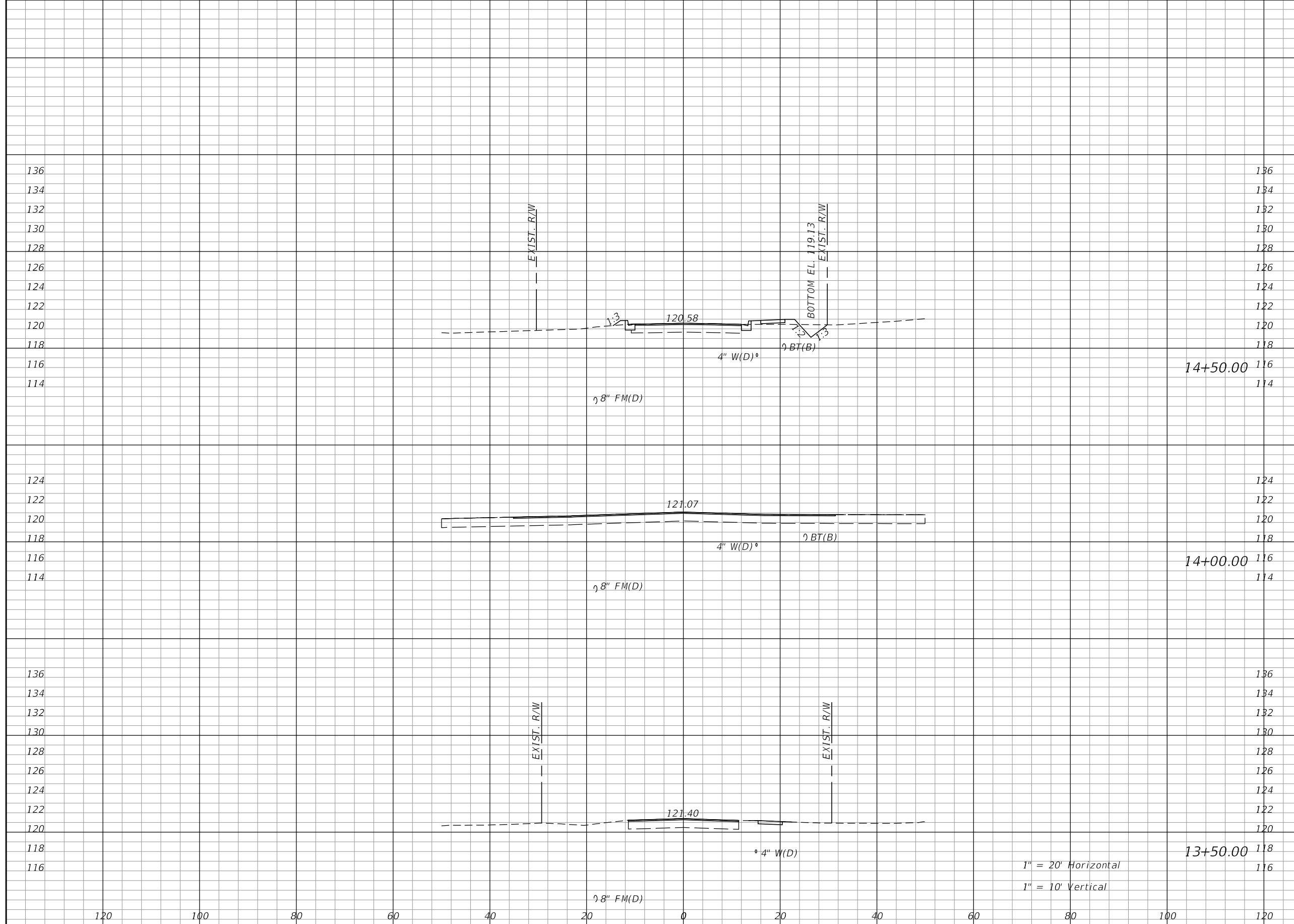
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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 WACHULA COUNTY HARDEE

**TOWNSEND STREET  
CROSS SECTIONS**

SHEET NO.  
21



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

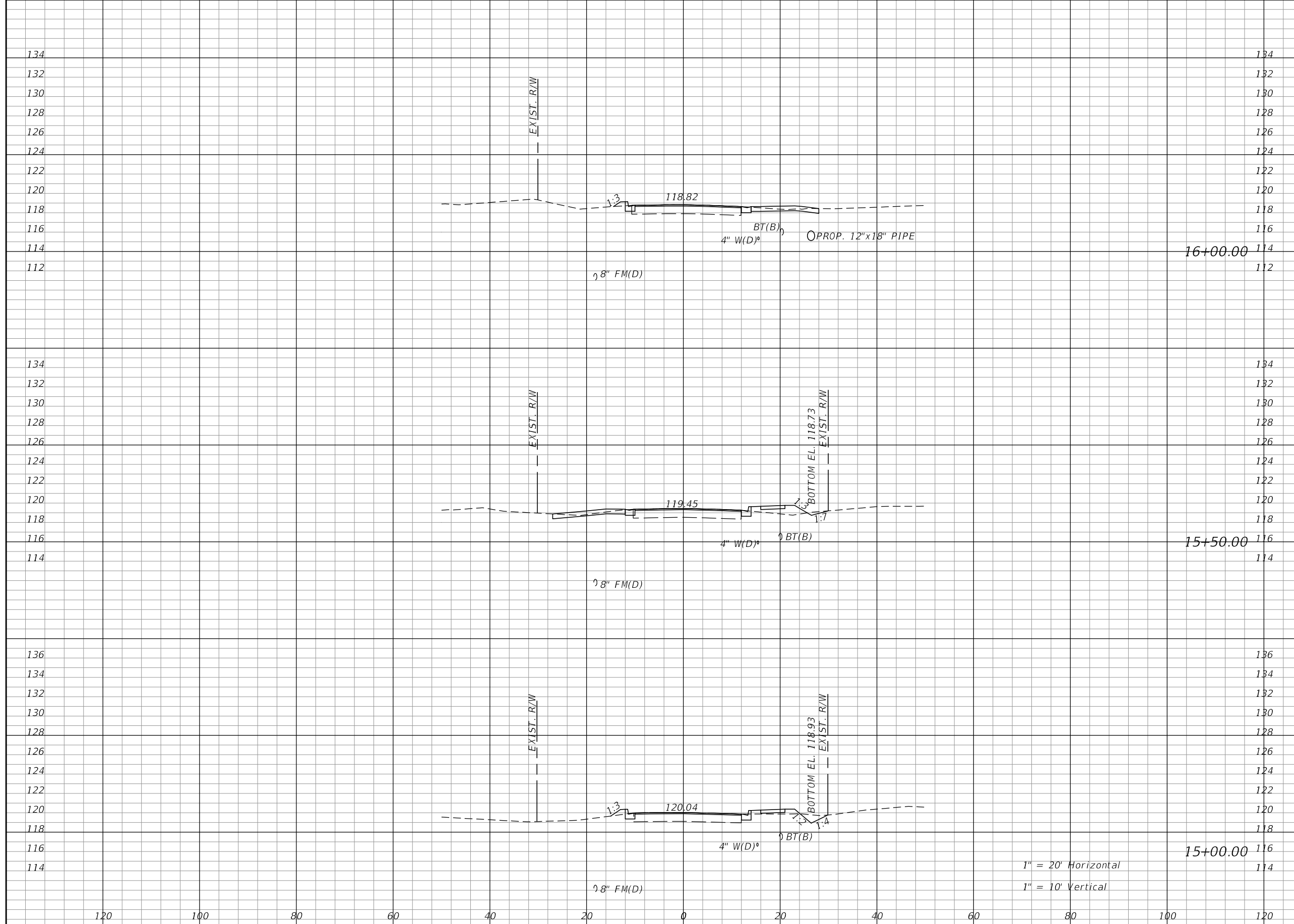
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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**TOWNSEND STREET ROADWAY  
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 CITY OF WACHULA COUNTY HARDEE

**TOWNSEND STREET  
 CROSS SECTIONS**

SHEET NO.  
 22



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

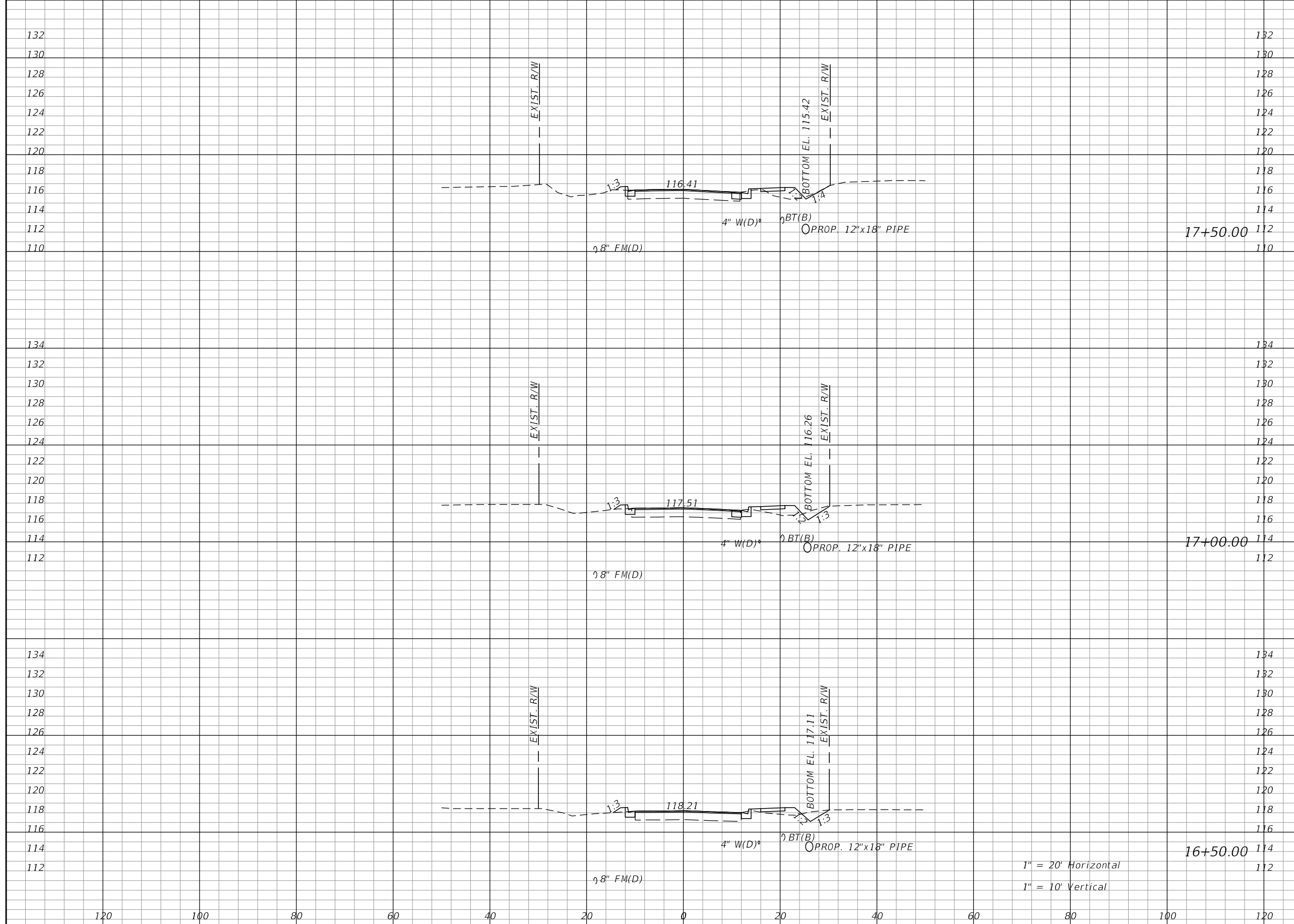
REVISIONS			
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**TOWNSEND STREET ROADWAY  
 AND STORMWATER IMPROVEMENTS**  
 CITY OF WACHULA COUNTY HARDEE

**TOWNSEND STREET  
 CROSS SECTIONS**

SHEET NO.  
 23



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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

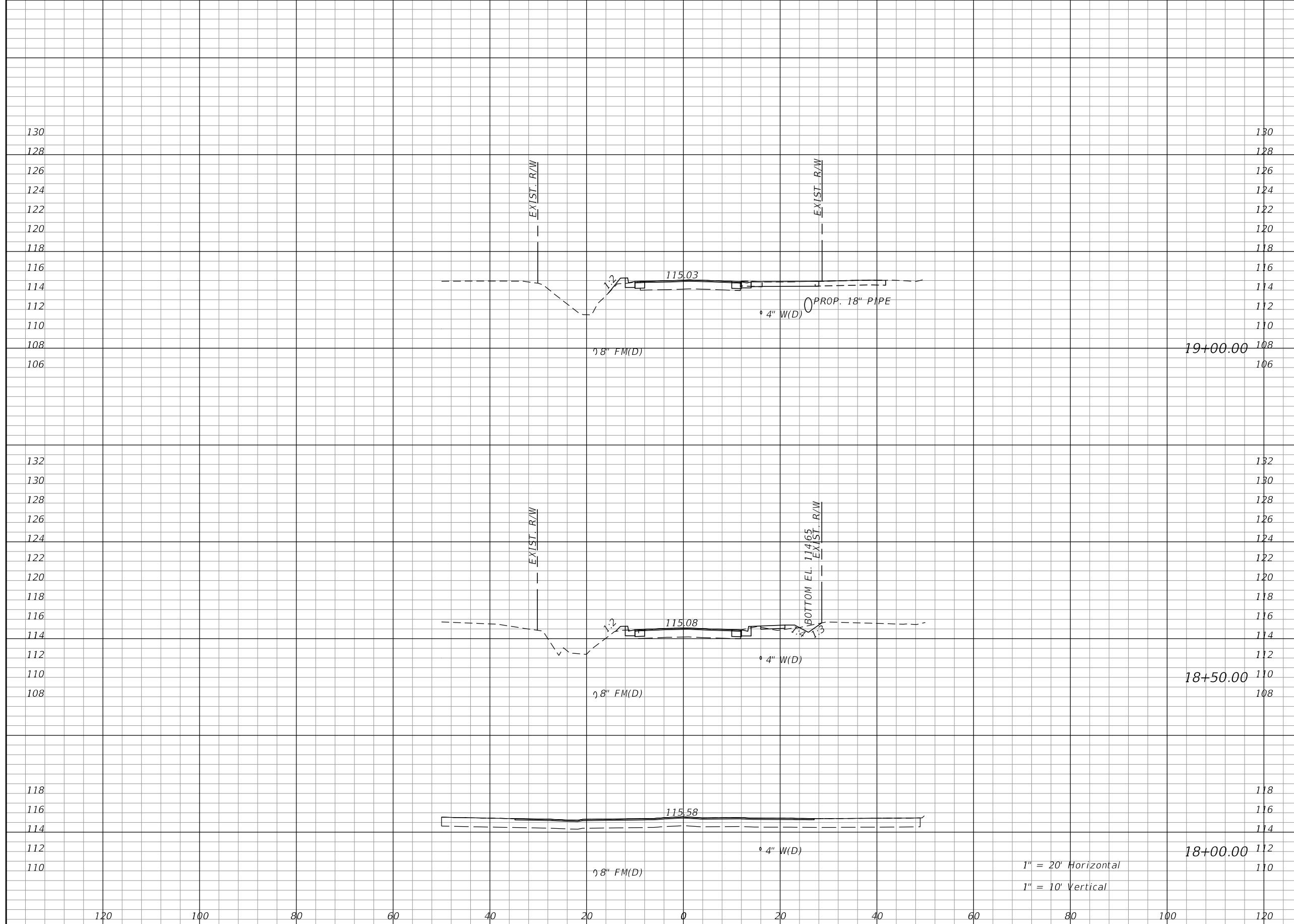
KIMLEY-HORN AND ASSOCIATES, INC.  
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**TOWNSEND STREET ROADWAY  
 AND STORMWATER IMPROVEMENTS**  
 CITY OF WACHULA COUNTY HARDEE

**TOWNSEND STREET  
 CROSS SECTIONS**

SHEET NO.  
 24





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

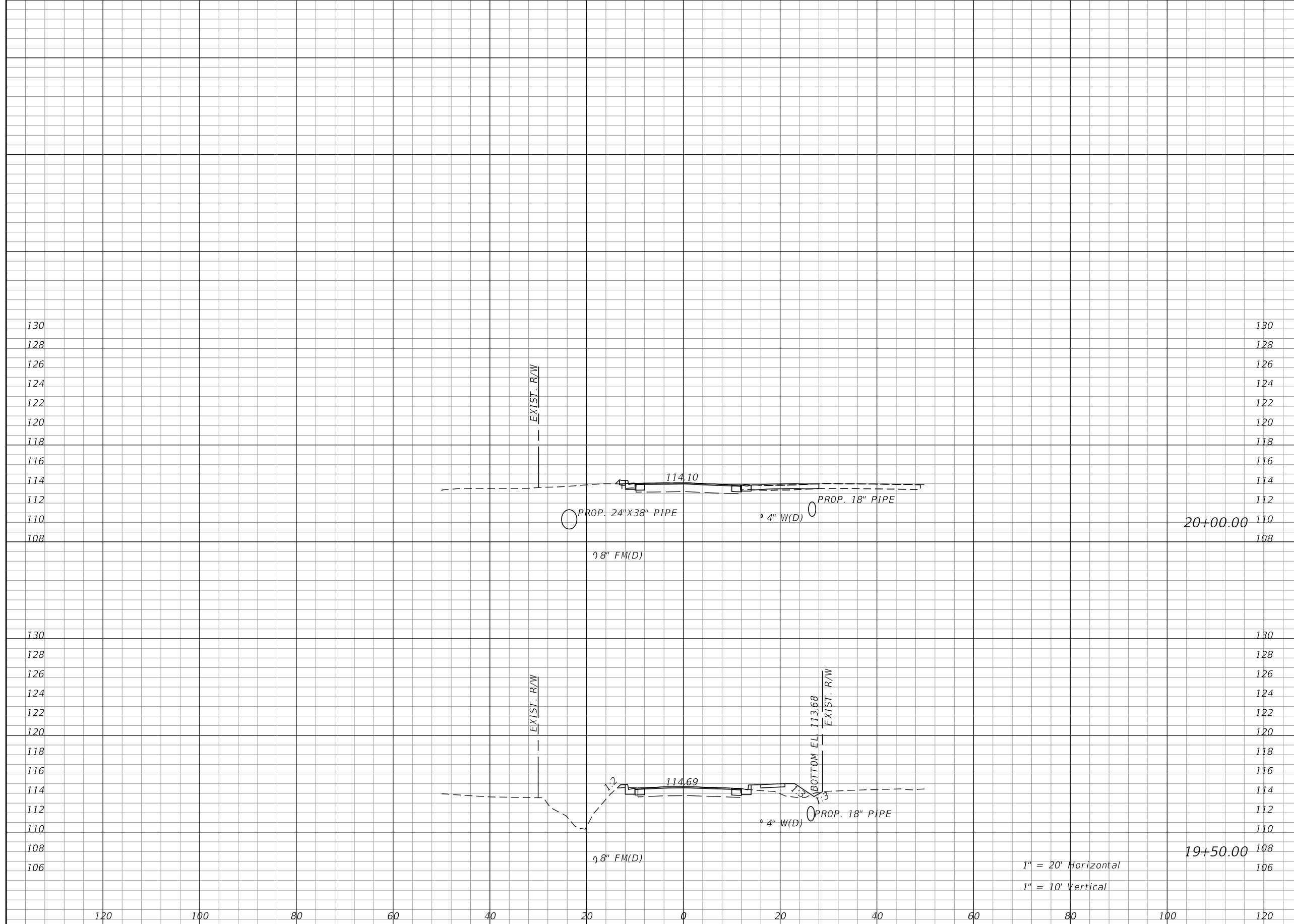
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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**TOWNSEND STREET ROADWAY  
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 CITY OF WACHULA COUNTY HARDEE

**TOWNSEND STREET  
 CROSS SECTIONS**

SHEET NO.  
 25



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

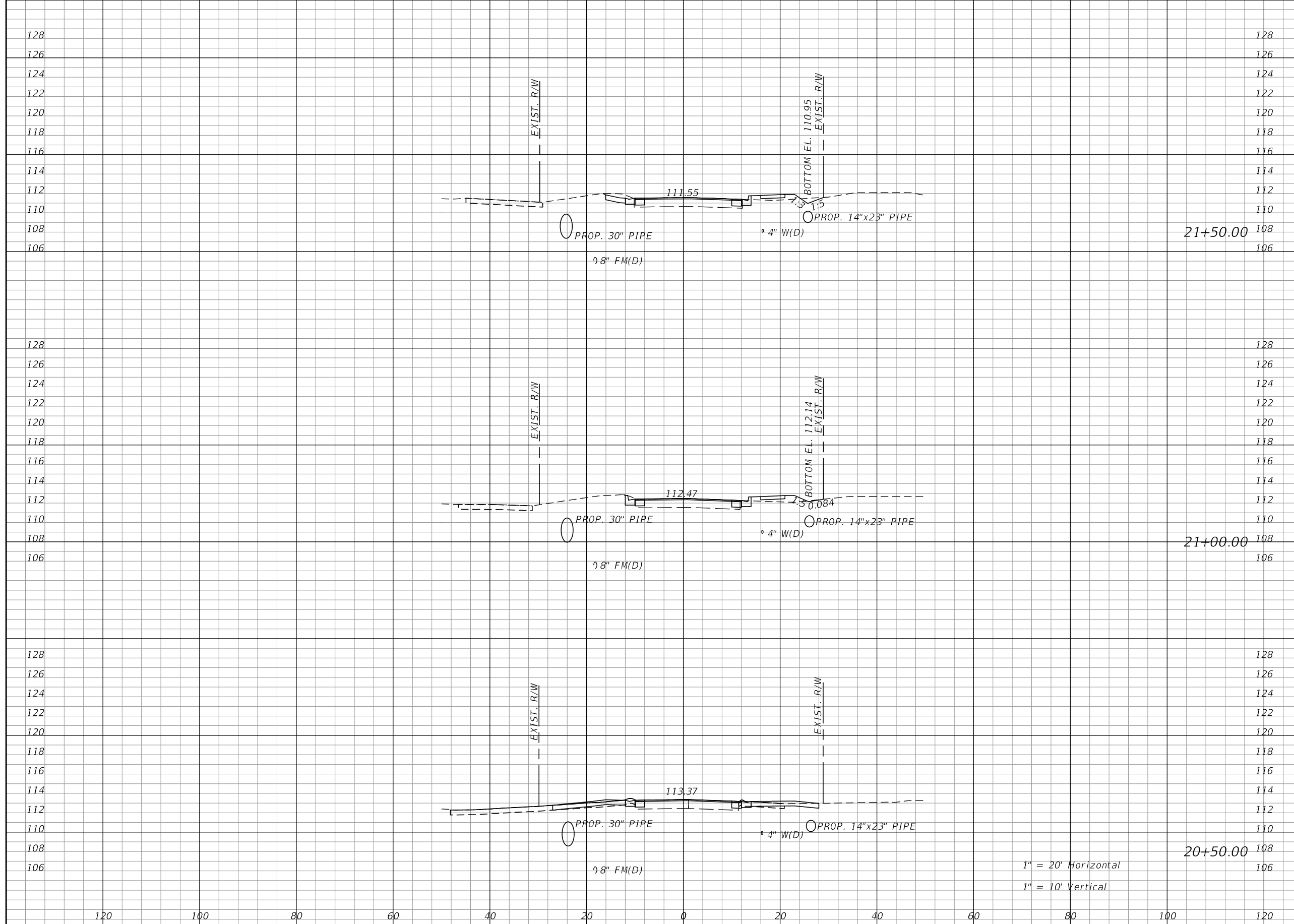
REVISIONS			
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**TOWNSEND STREET ROADWAY  
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 CITY OF WACHULA COUNTY HARDEE

**TOWNSEND STREET  
 CROSS SECTIONS**

SHEET NO.  
 26



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

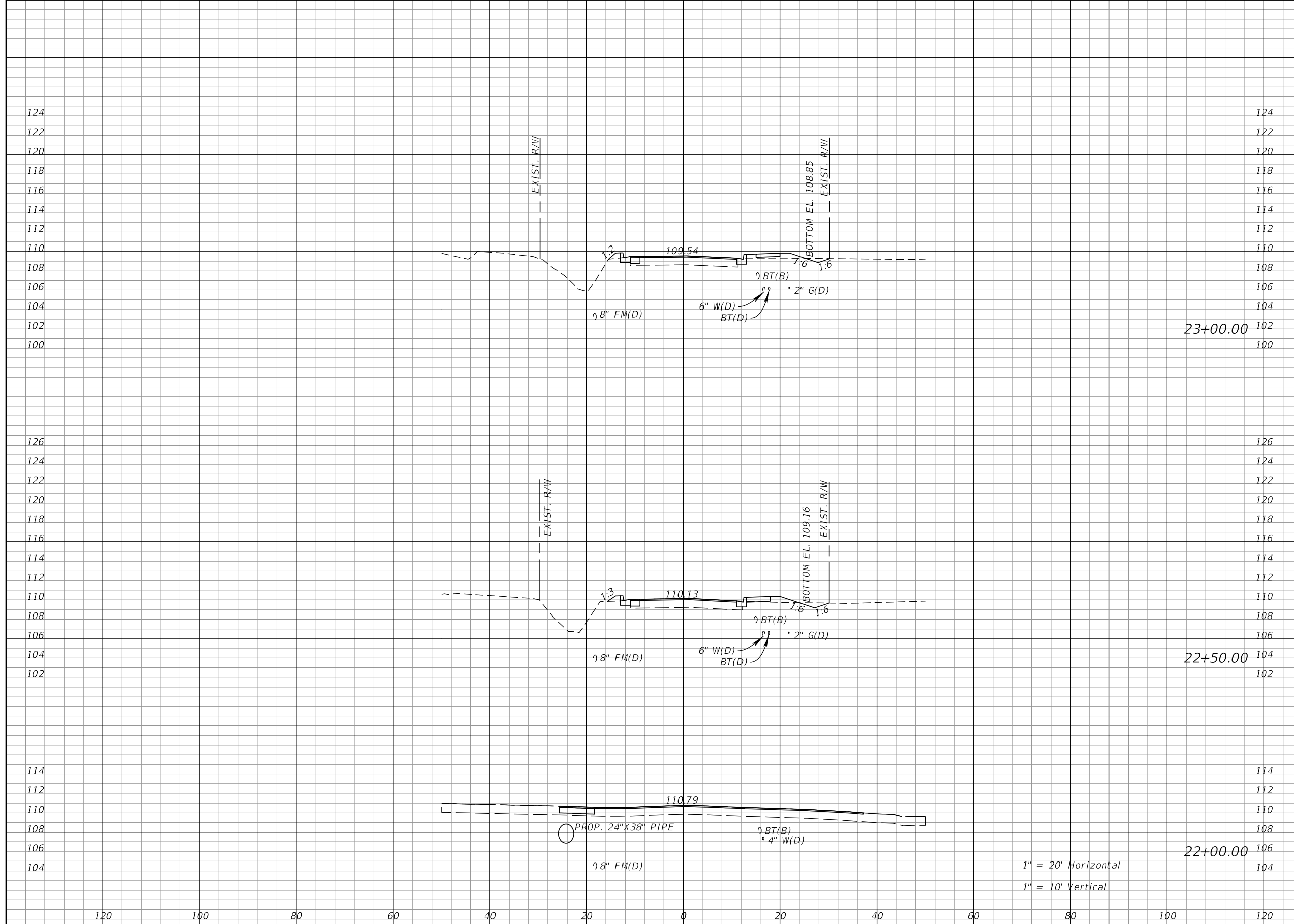
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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

**TOWNSEND STREET  
 CROSS SECTIONS**

SHEET NO. 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

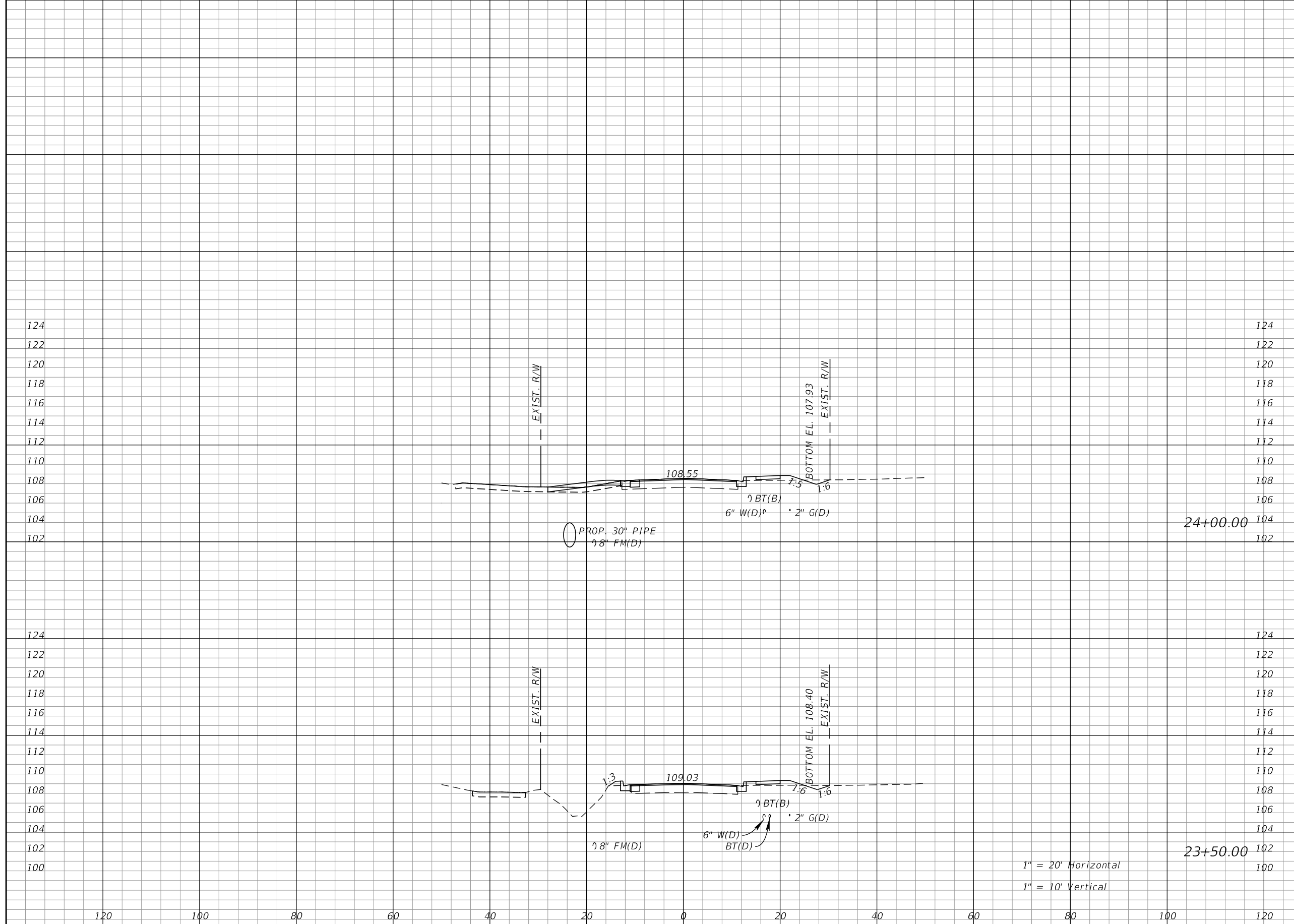
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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**TOWNSEND STREET ROADWAY  
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CITY OF WACHULA COUNTY HARDEE

**TOWNSEND STREET  
CROSS SECTIONS**

SHEET NO. 28



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

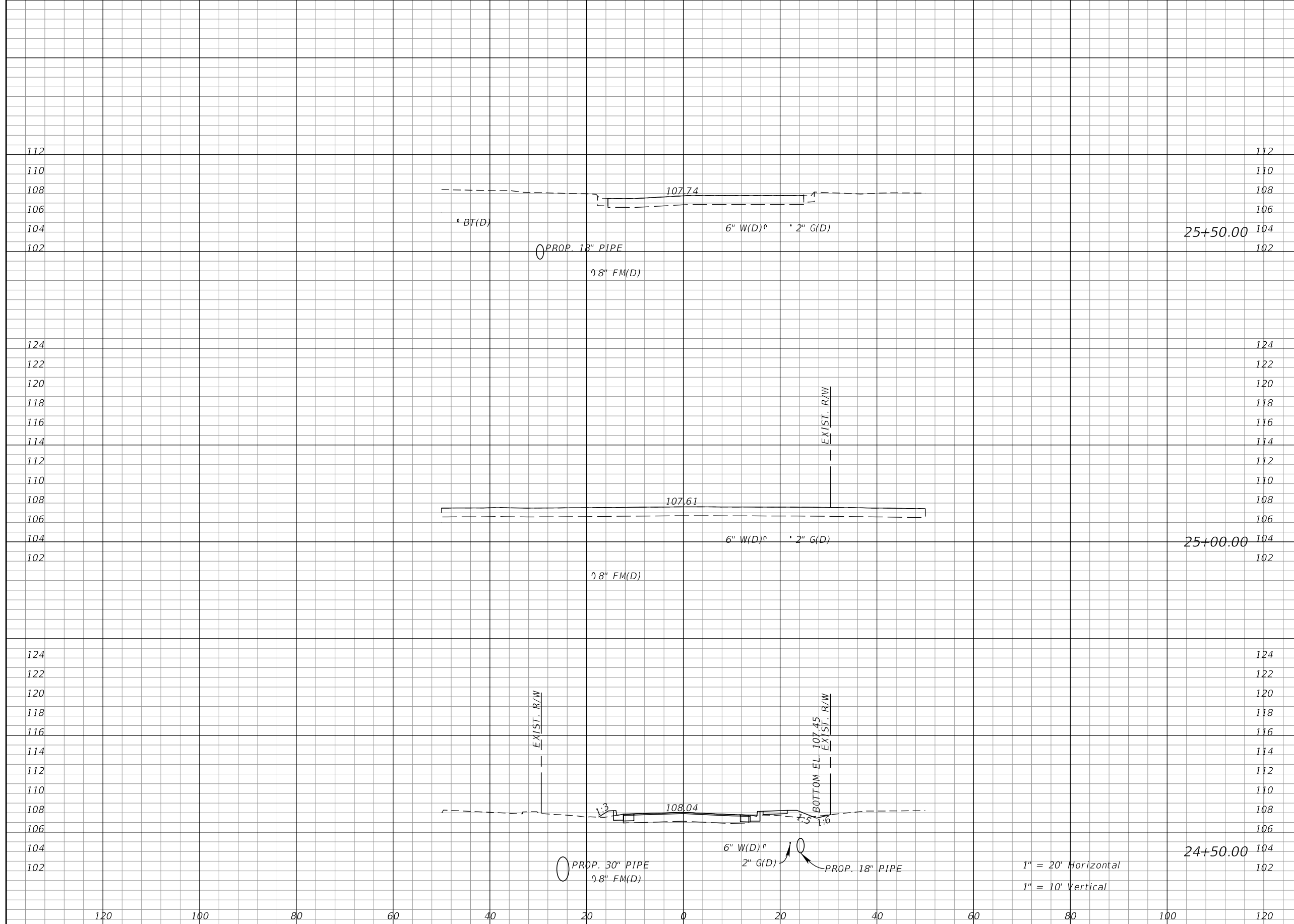
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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 AND STORMWATER IMPROVEMENTS**  
 CITY OF WACHULA COUNTY HARDEE

**TOWNSEND STREET  
 CROSS SECTIONS**

SHEET NO. 29



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

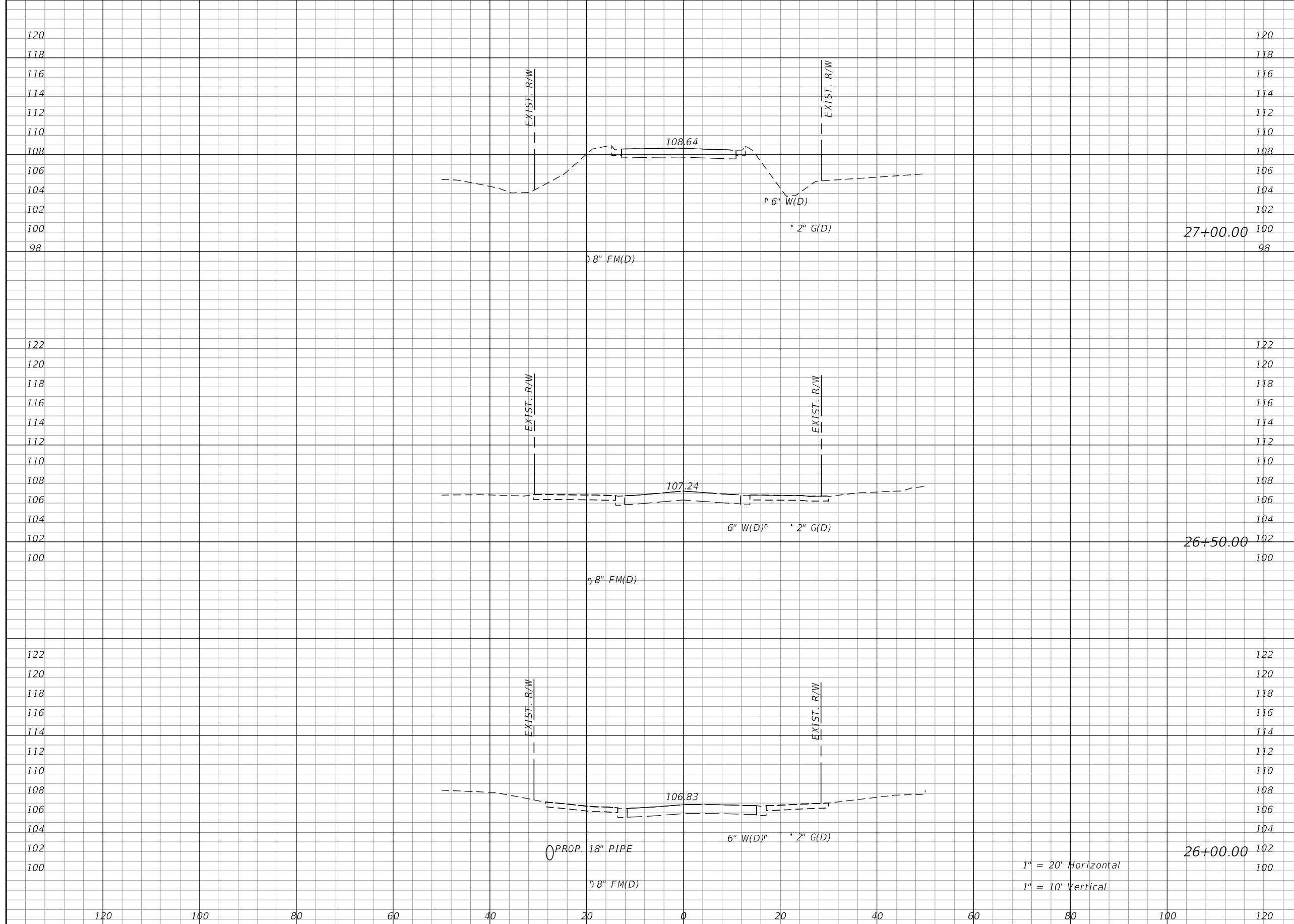
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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

**TOWNSEND STREET  
 CROSS SECTIONS**

SHEET NO. 30



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

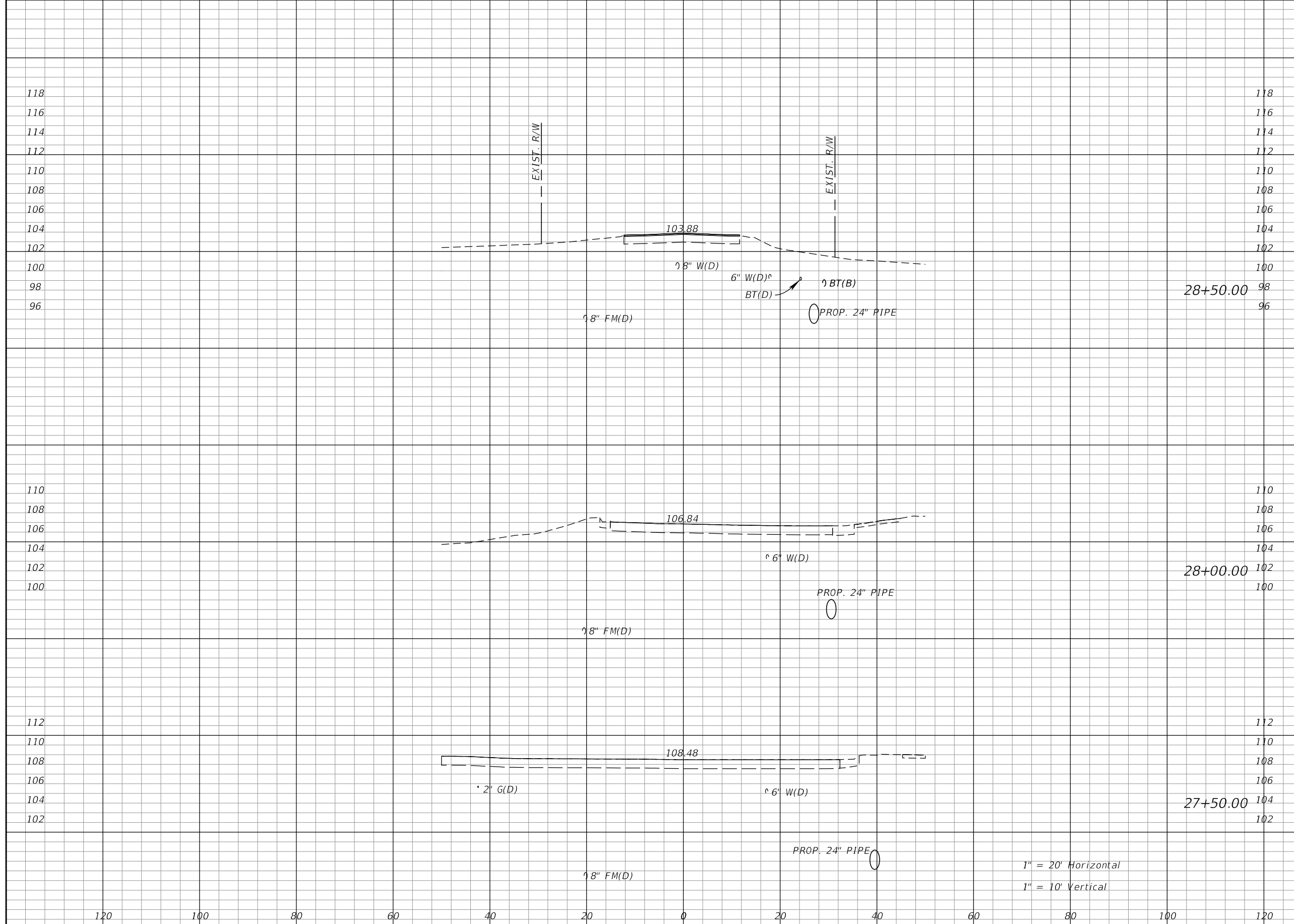
KIMLEY-HORN AND ASSOCIATES, INC.  
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**TOWNSEND STREET ROADWAY  
 AND STORMWATER IMPROVEMENTS**

CITY OF	COUNTY
WACHULA	HARDEE

**TOWNSEND STREET  
 CROSS SECTIONS**

SHEET NO.  
 31



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

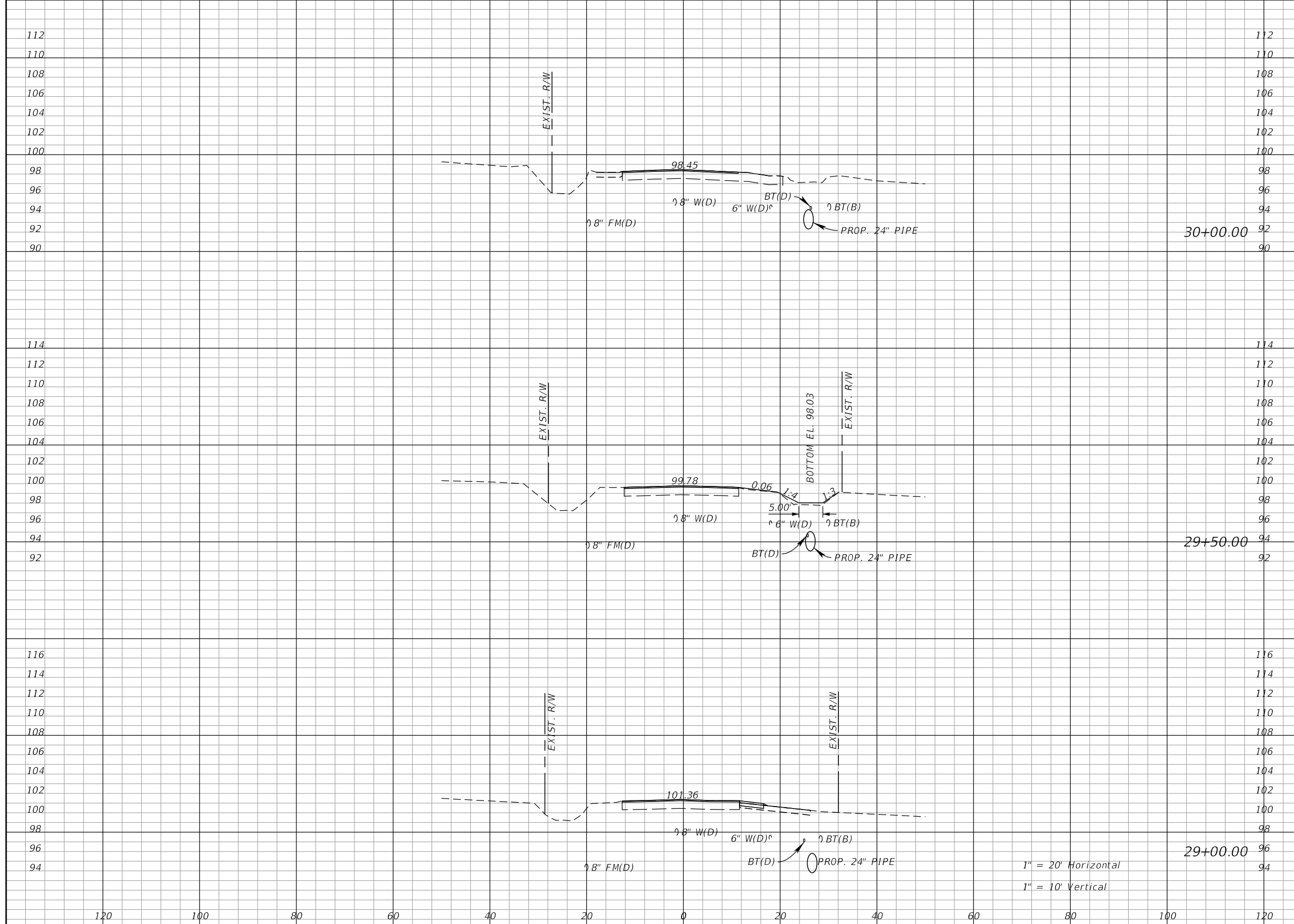
KIMLEY-HORN AND ASSOCIATES, INC.  
 JOHN SEALS, P.E.  
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**TOWNSEND STREET ROADWAY  
 AND STORMWATER IMPROVEMENTS**  
 CITY OF WACHULA COUNTY HARDEE

**TOWNSEND STREET  
 CROSS SECTIONS**

SHEET NO.  
 32





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

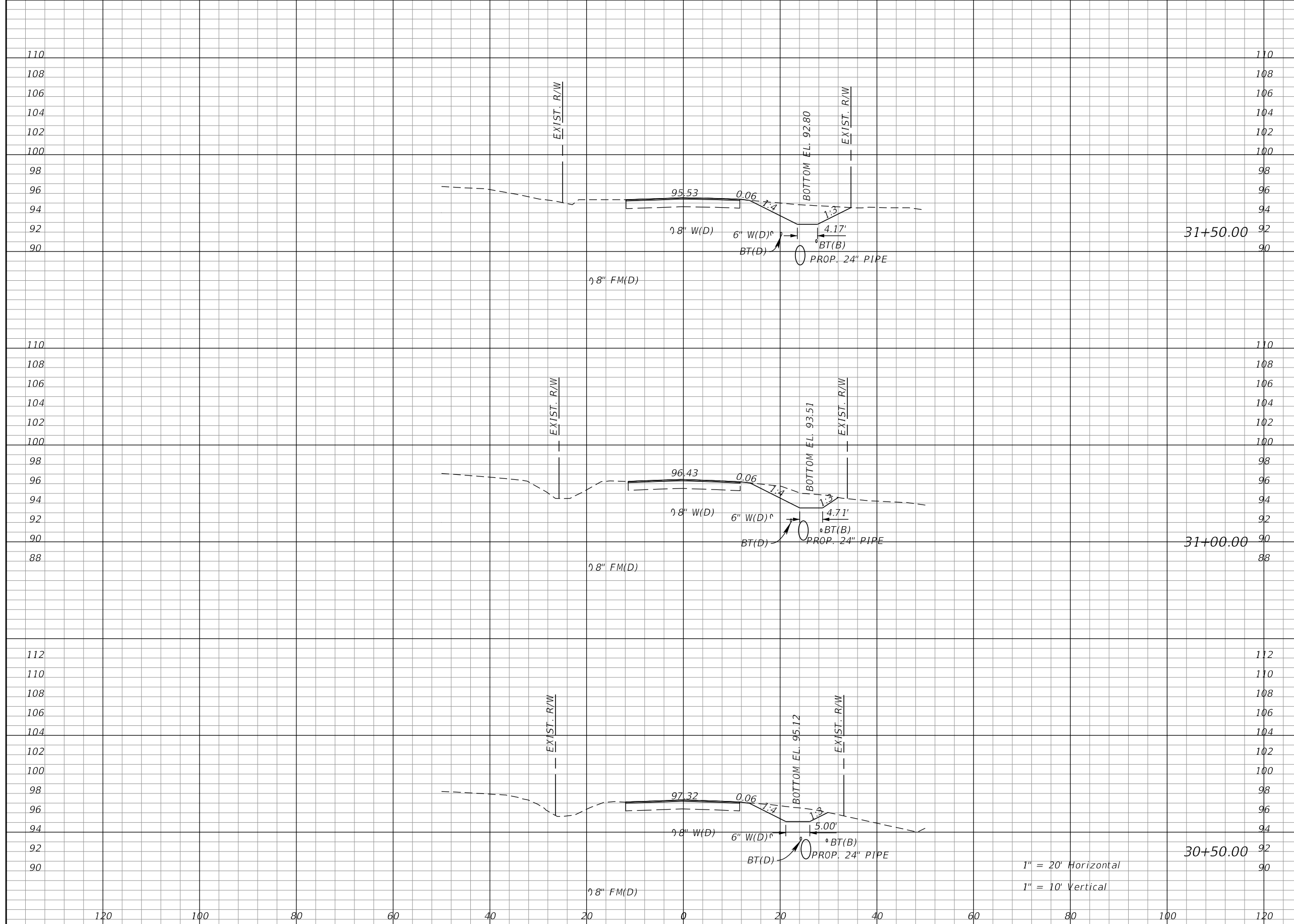
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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

**TOWNSEND STREET  
 CROSS SECTIONS**

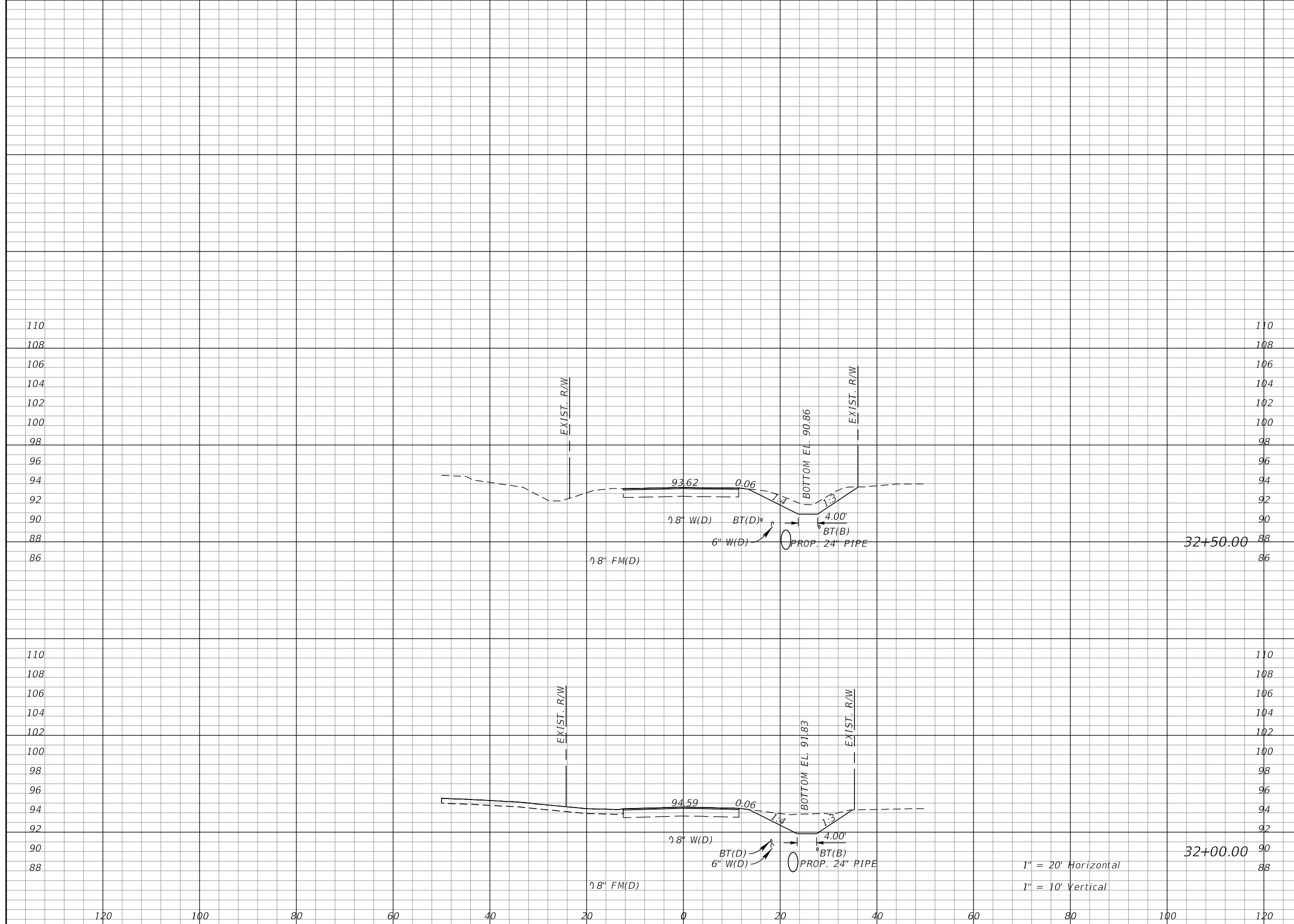
SHEET NO.  
**33**



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

<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> </tbody> </table>		REVISIONS		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	<b>TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS</b> CITY OF WACHULA      COUNTY HARDEE	<b>TOWNSEND STREET CROSS SECTIONS</b>	SHEET NO. 34
REVISIONS											
DATE	DESCRIPTION										



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

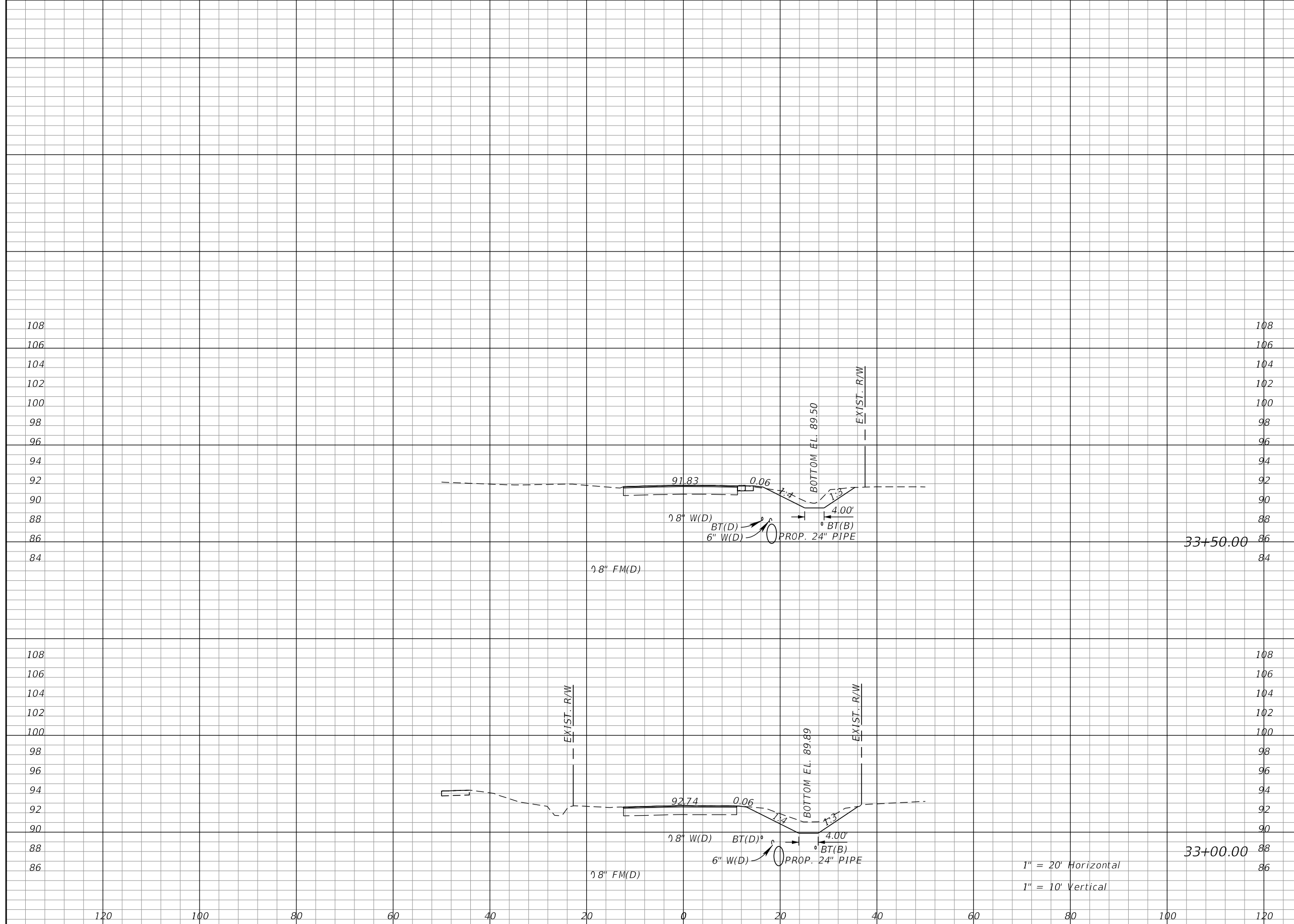
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**TOWNSEND STREET ROADWAY  
 AND STORMWATER IMPROVEMENTS**  
 CITY OF WACHULA COUNTY HARDEE

**TOWNSEND STREET  
 CROSS SECTIONS**

SHEET NO. 35



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

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

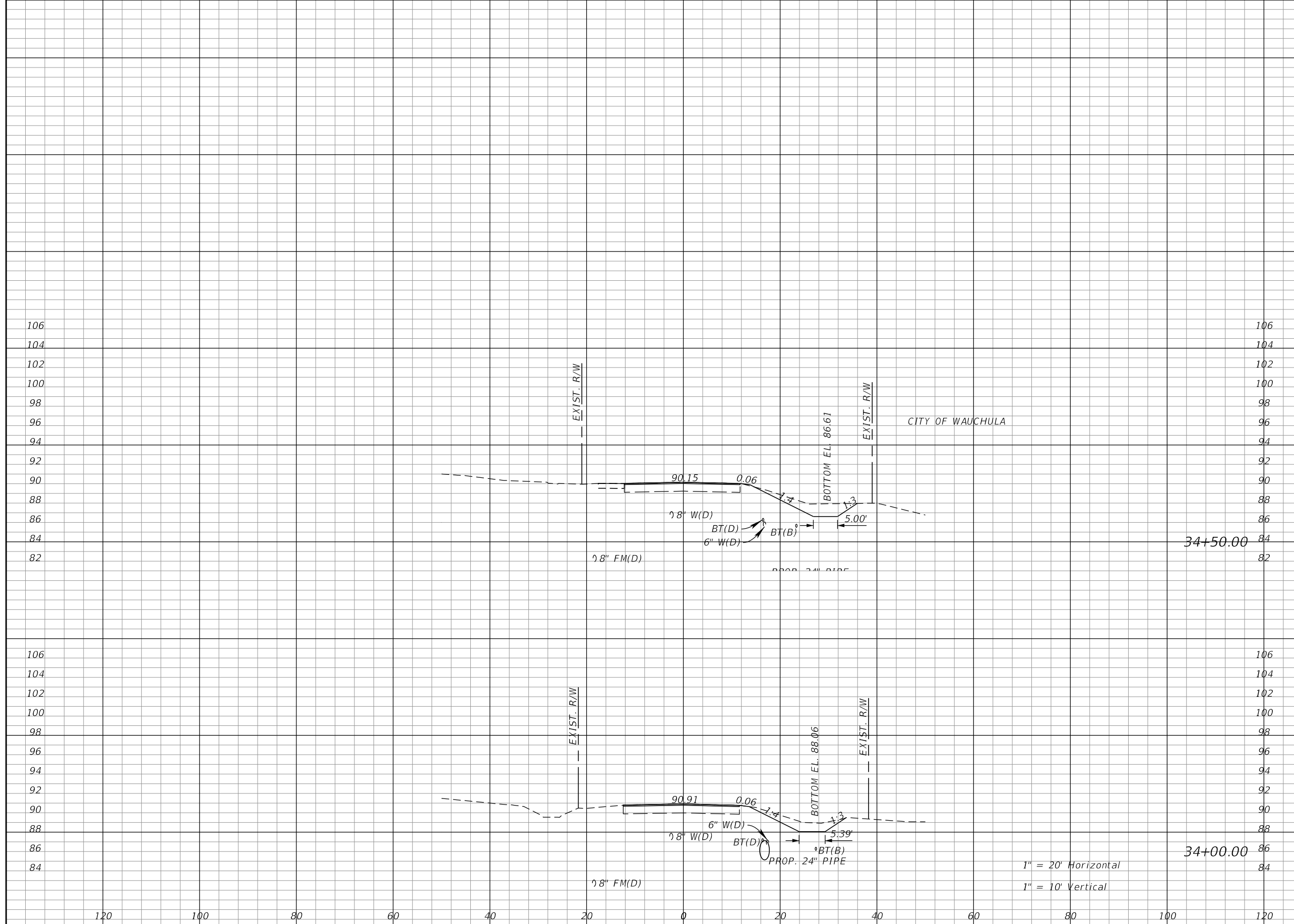
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**TOWNSEND STREET ROADWAY  
AND STORMWATER IMPROVEMENTS**  
CITY OF WACHULA COUNTY HARDEE

**TOWNSEND STREET  
CROSS SECTIONS**

SHEET NO.  
36



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

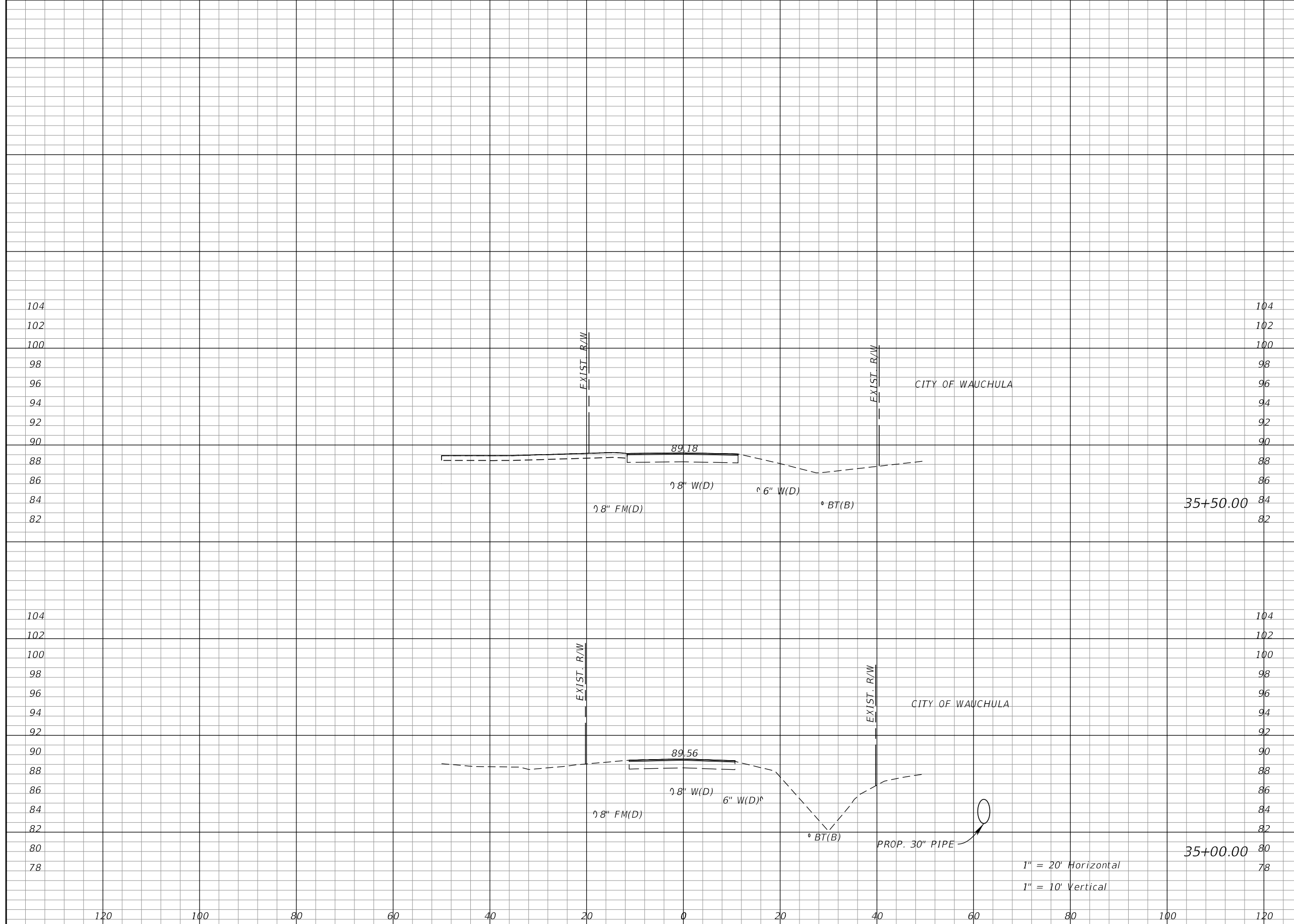
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 CITY OF WACHULA COUNTY HARDEE

**TOWNSEND STREET  
 CROSS SECTIONS**

SHEET NO.  
 37



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

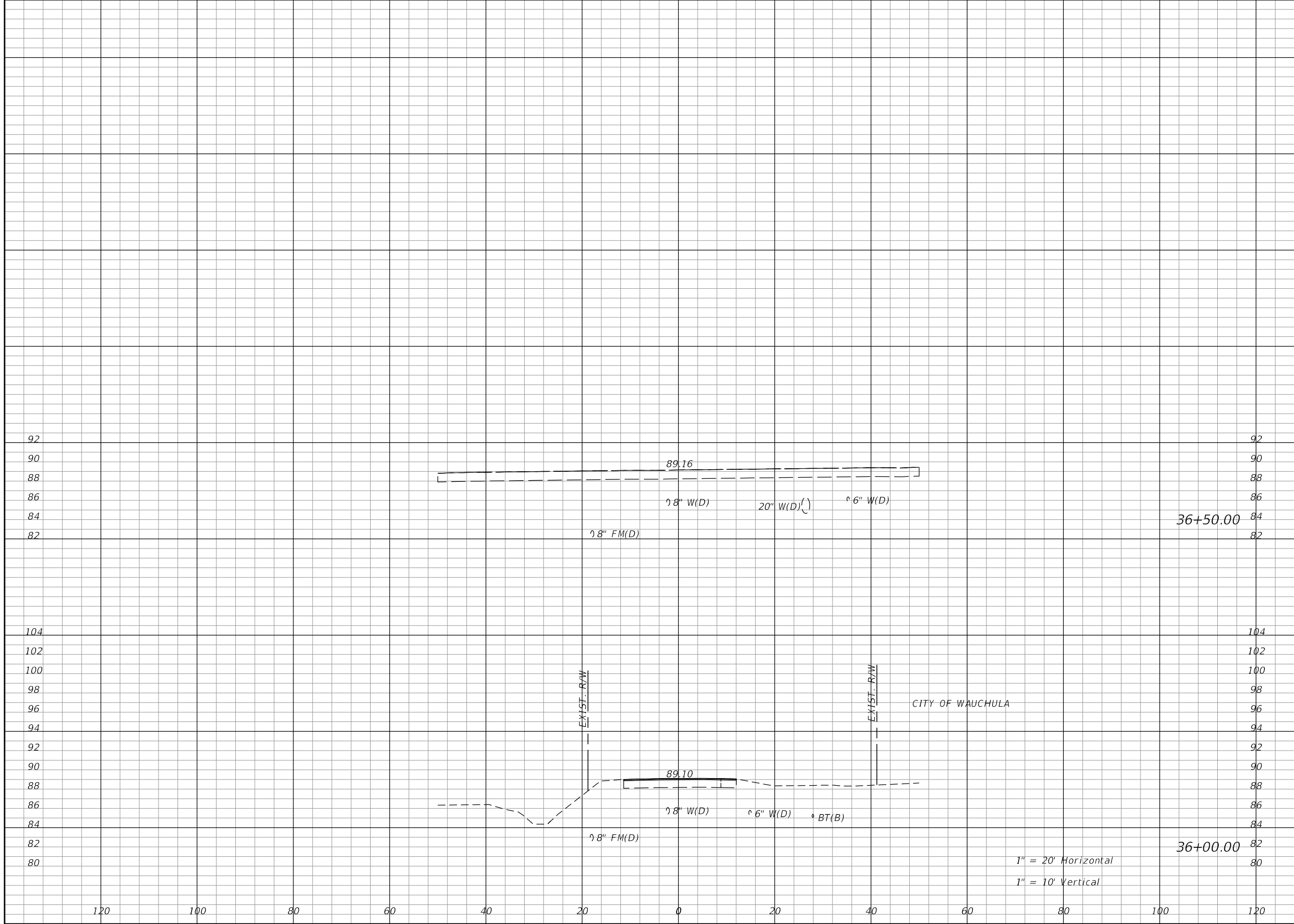
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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.  
 38



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

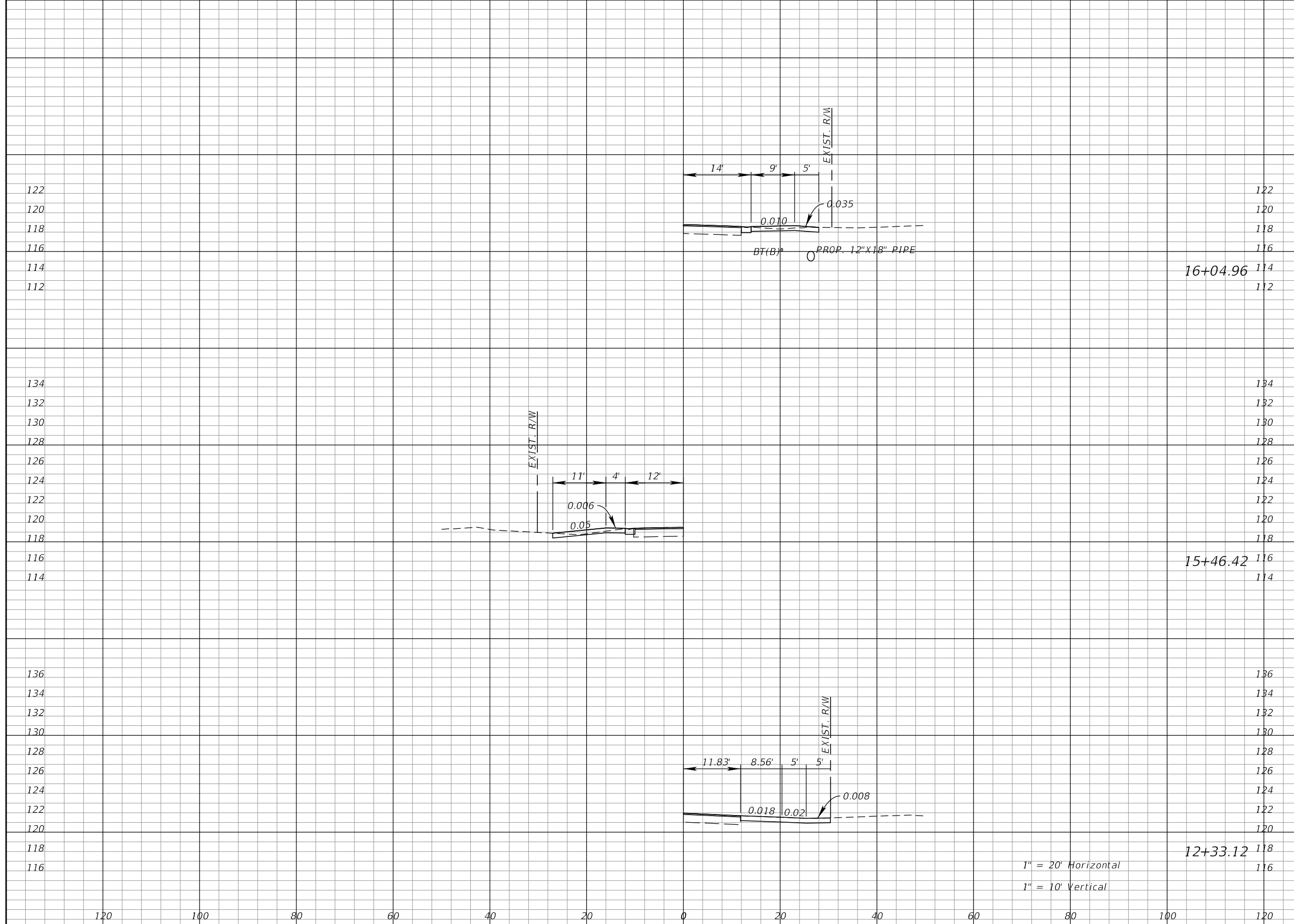
KIMLEY-HORN AND ASSOCIATES, INC.  
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**TOWNSEND STREET ROADWAY  
 AND STORMWATER IMPROVEMENTS**  
 CITY OF WACHULA COUNTY  
 WACHULA HARDEE

**TOWNSEND STREET  
 CROSS SECTIONS**

SHEET NO.  
 39

Regular Exc.		Embankment	
A	V	A	V



122  
120  
118  
116  
114  
112

134  
132  
130  
128  
126  
124  
122  
120  
118  
116  
114

136  
134  
132  
130  
128  
126  
124  
122  
120  
118  
116

16+04.96

15+46.42

12+33.12

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  
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CERTIFICATE OF AUTHORIZATION NO. 696

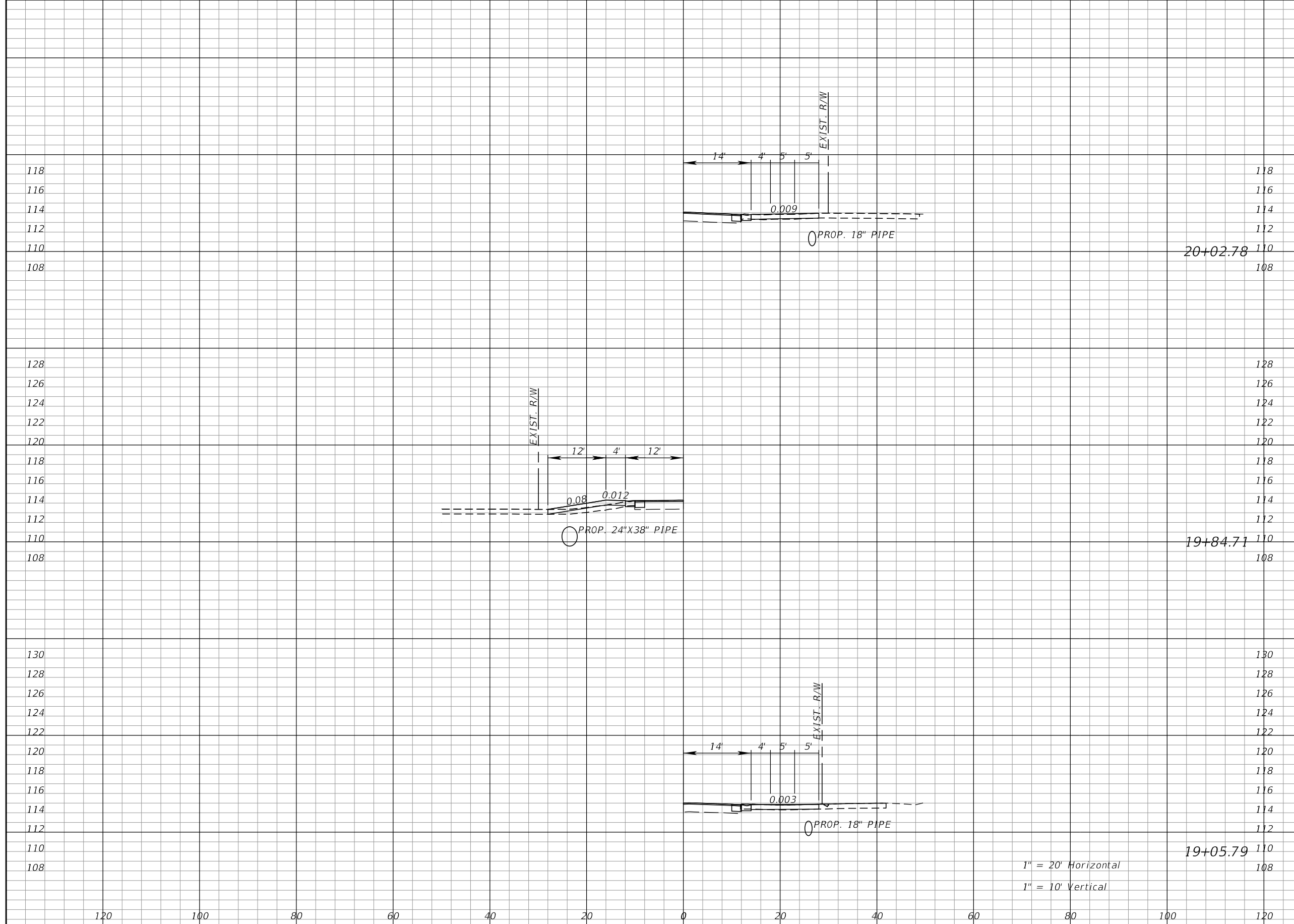
<b>TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS</b>	
CITY OF	COUNTY
WACHULA	HARDEE

**TOWNSEND STREET  
DRIVEWAY HALF SECTIONS**

SHEET  
NO.  
**40**



Regular Exc.		Embankment	
A	V	A	V



20+02.78

19+84.71

19+05.79

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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P.E. LICENSE NUMBER 51505  
655 N FRANKLIN ST., SUITE 150  
TAMPA, FL 33602  
PHONE (813) 620-1460  
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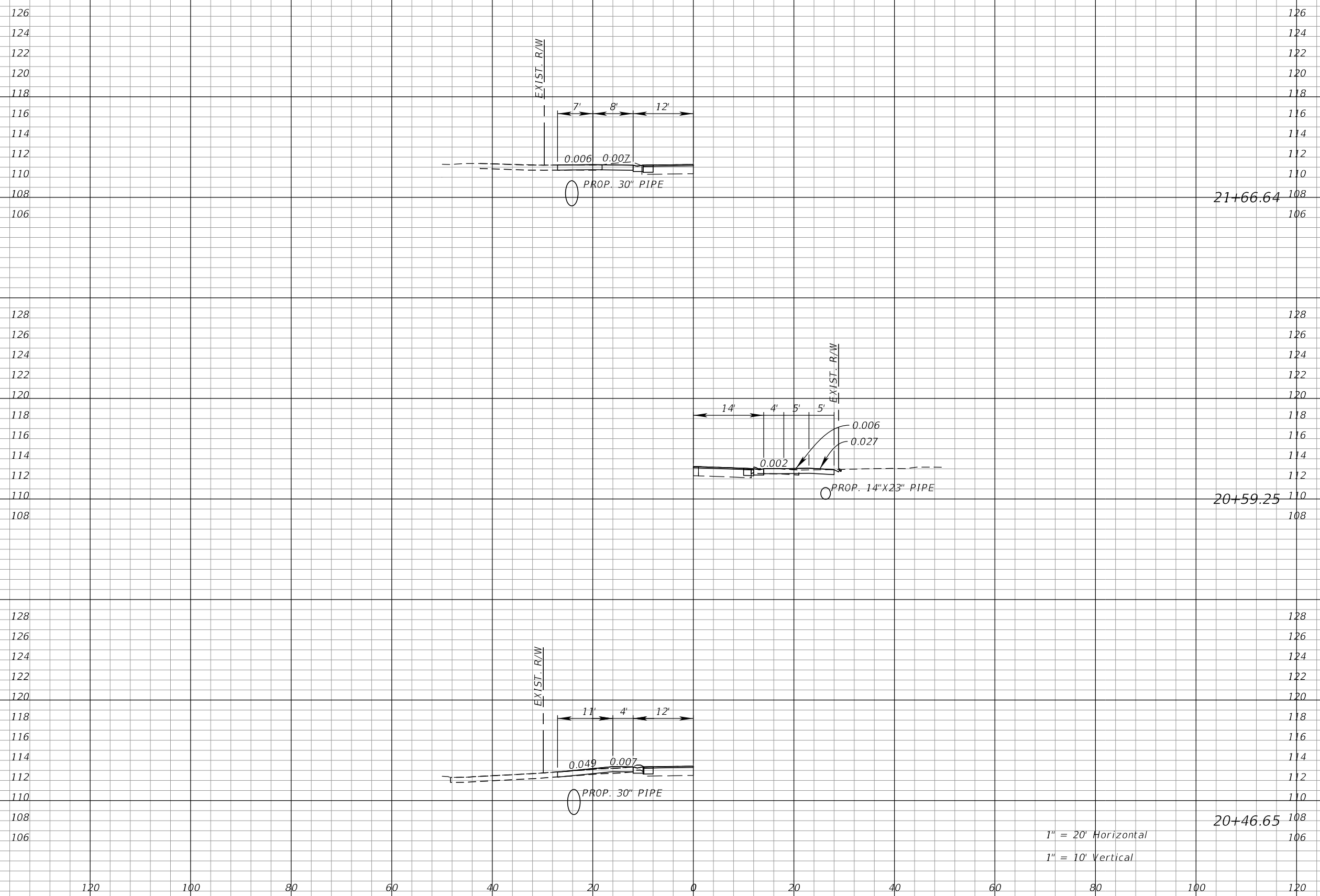
**TOWNSEND STREET ROADWAY  
AND STORMWATER IMPROVEMENTS**

CITY OF	COUNTY
WACHULA	HARDEE

**TOWNSEND STREET  
DRIVEWAY HALF SECTIONS**

SHEET NO.  
41

Regular Exc.		Embankment	
A	V	A	V



21+66.64

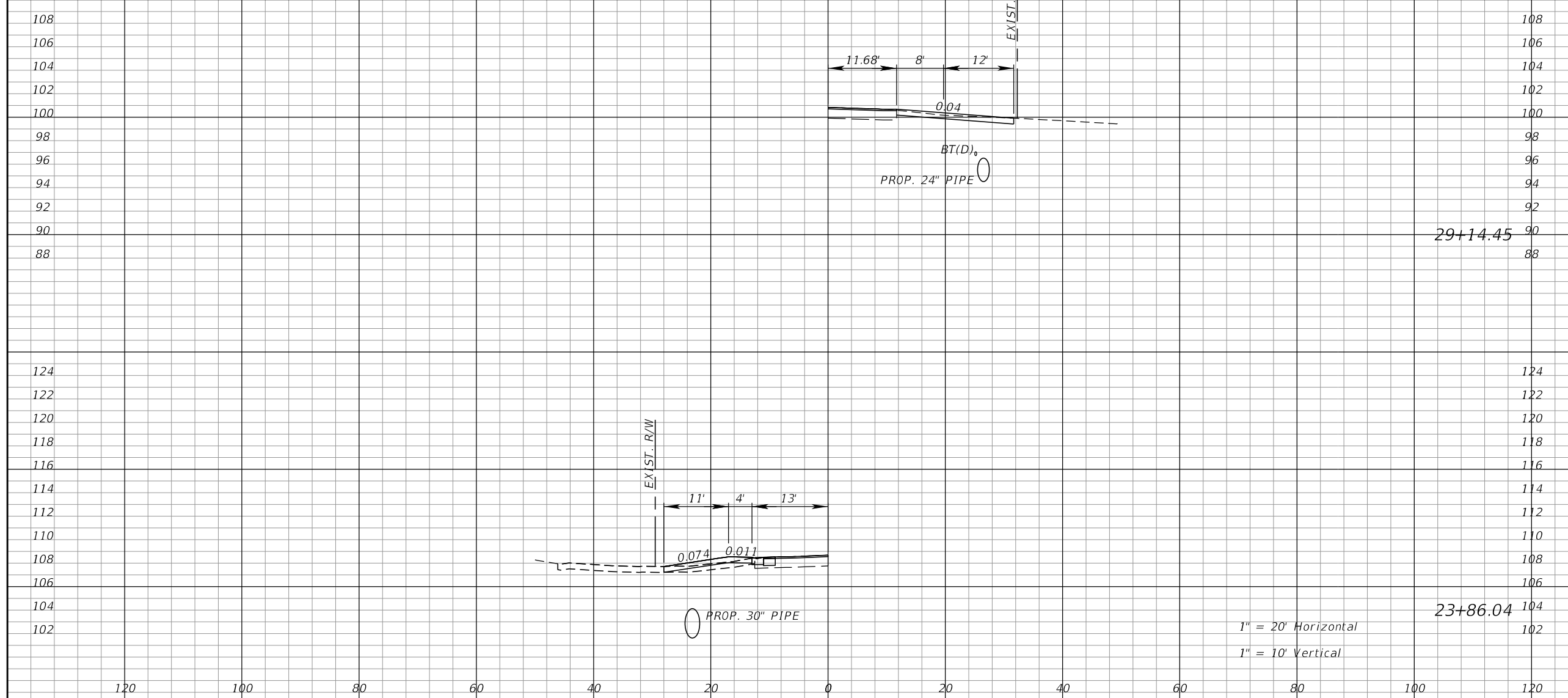
20+59.25

20+46.65

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

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		<b>TOWNSEND STREET DRIVEWAY HALF SECTIONS</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		CITY OF	COUNTY		42
					WACHULA	HARDEE		

Regular Exc.		Embankment	
A	V	A	V



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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

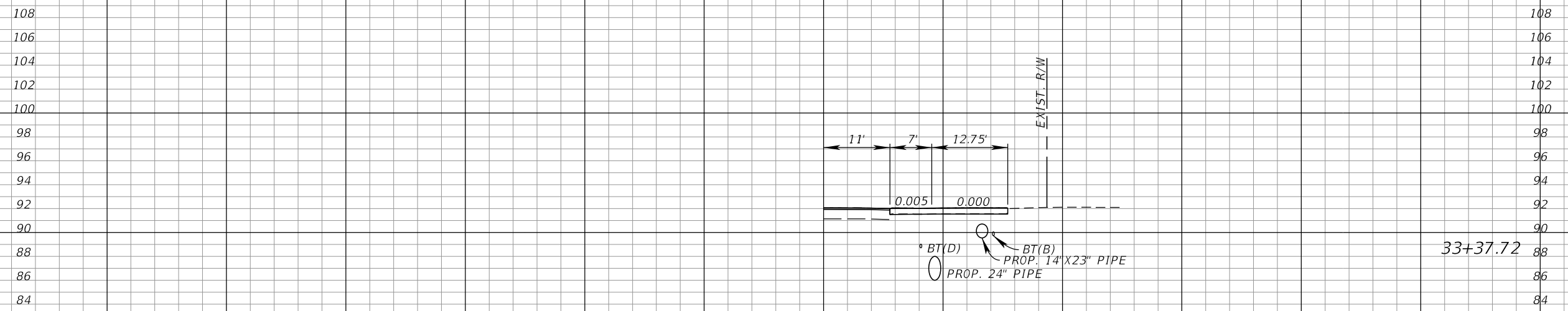
KIMLEY-HORN AND ASSOCIATES, INC.  
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**TOWNSEND STREET ROADWAY  
AND STORMWATER IMPROVEMENTS**  
CITY OF WACHULA COUNTY HARDEE

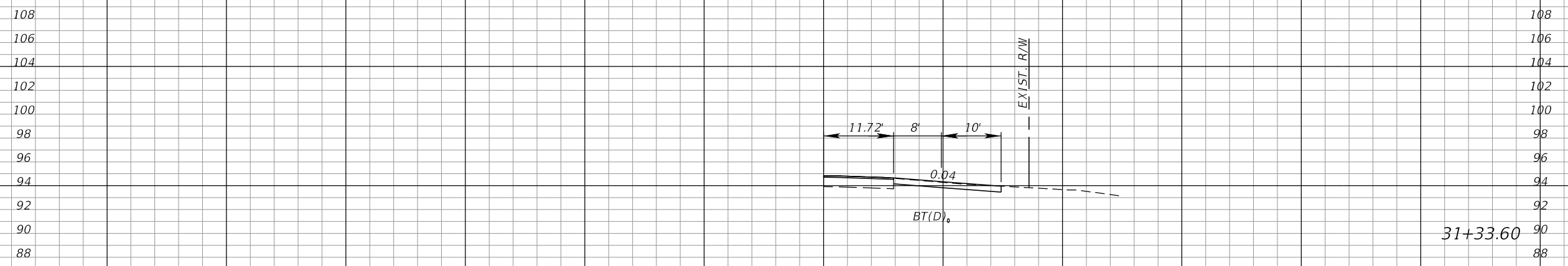
**TOWNSEND STREET  
DRIVEWAY HALF SECTIONS**

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.  
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**TOWNSEND STREET ROADWAY  
 AND STORMWATER IMPROVEMENTS**

CITY OF	COUNTY
WACHULA	HARDEE

**TOWNSEND STREET  
 DRIVEWAY HALF SECTIONS**

SHEET NO.  
 44

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: 4.36 ACRES.  
TOTAL AREA TO BE DISTURBED: 4.36 ACRES.

(1.D.) RUNOFF DATA:

RUNOFF COEFFICIENTS BEFORE C<sub>w</sub> (B), DURING C<sub>w</sub> (D) AND AFTER C<sub>w</sub> (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: C<sub>w</sub> (B) = 0.93      DURING: C<sub>w</sub> (D) = VARIES 0.93 TO 0.89      AFTER: C<sub>w</sub> (A) = 0.89

THE RUN-OFF COEFFICIENT C<sub>w</sub> (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. ROBERT CONERLY, P.E. P.E. LICENSE NUMBER 59291 200 SOUTH TRYON STREET, SUITE 200 CHARLOTTE, NC 28202 PHONE (704) 333-5131 CERTIFICATE OF AUTHORIZATION NO. 696	TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS		STORMWATER POLLUTION PREVENTION PLAN (1)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		CITY OF	COUNTY		
					WAUCHULA	HARDEE		45

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.

REVISIONS				KIMLEY-HORN AND ASSOCIATES, INC. ROBERT CONERLY, P.E. P.E. LICENSE NUMBER 59291 200 SOUTH TRYON STREET, SUITE 200 CHARLOTTE, NC 28202 PHONE (704) 333-5131 CERTIFICATE OF AUTHORIZATION NO. 696	TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS		STORMWATER POLLUTION PREVENTION PLAN (2)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		CITY OF	COUNTY		
					WAUCHULA	HARDEE		

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.

REVISIONS				KIMLEY-HORN AND ASSOCIATES, INC. ROBERT CONERLY, P.E. P.E. LICENSE NUMBER 59291 200 SOUTH TRYON STREET, SUITE 200 CHARLOTTE, NC 28202 PHONE (704) 333-5131 CERTIFICATE OF AUTHORIZATION NO. 696	TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS		<i>STORMWATER POLLUTION PREVENTION PLAN (3)</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		CITY OF	COUNTY		47
					WAUCHULA	HARDEE		

**CONTROL STRUCTURE - S-505**

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

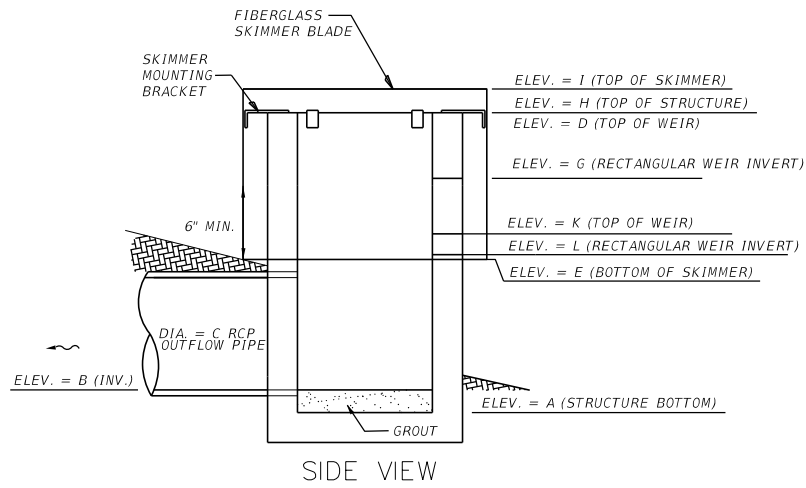
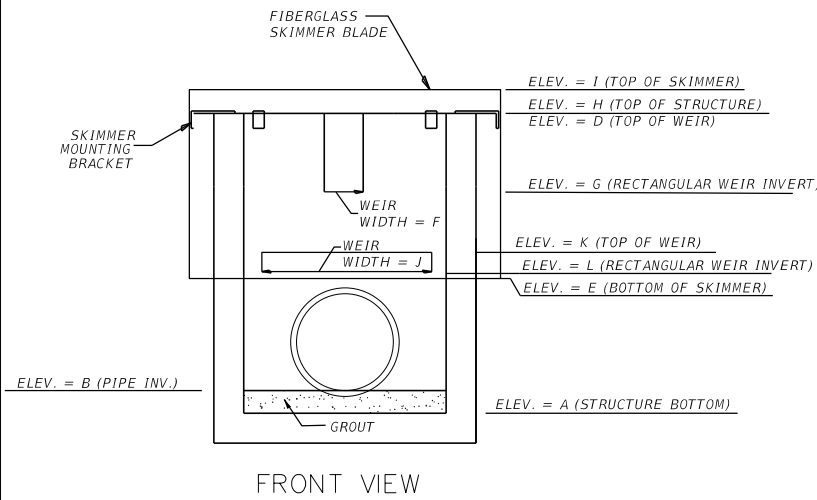
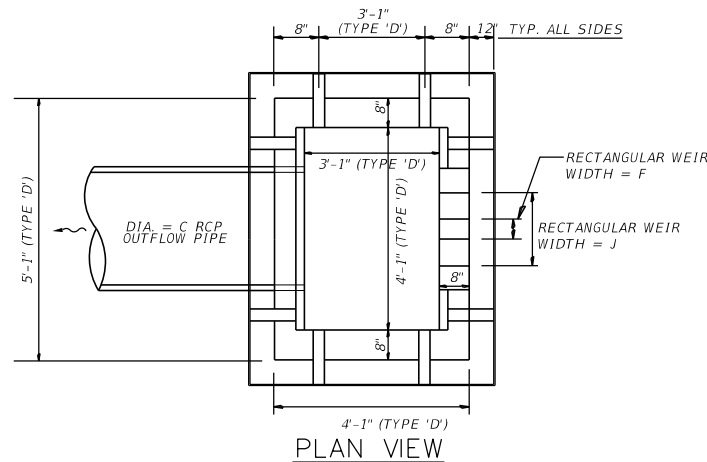
**NOTE:**

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

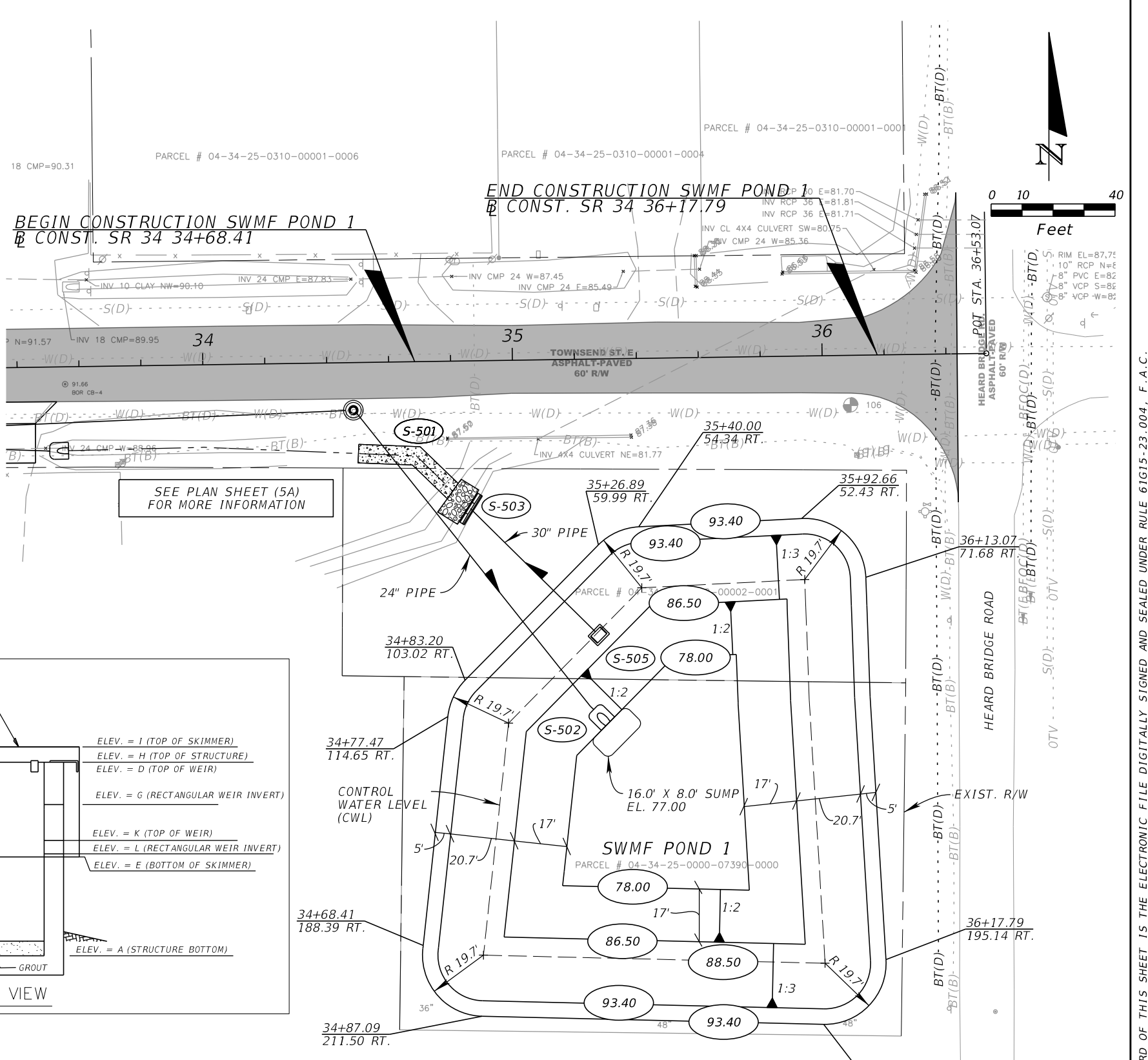
2. A CONCRETE PAD SHALL BE INSTALLED UNDER THE SKIMMER WHERE SEPARATION BETWEEN THE SKIMMER AND POND BOTTOM/BERM IS LESS THAN 12". THE CONCRETE PAD SHALL EXTEND FROM THE CONTROL STRUCTURE TO 12" BEYOND THE SKIMMER.

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



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



NOTE:  
OVER EXCAVATE POND BOTTOM BY 1' AND BACKFILL WITH AASHTO CLASS A-3 MATERIAL.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KIMLEY-HORN AND ASSOCIATES, INC.  
ROBERT CONERLY, P.E.  
P.E. LICENSE NUMBER 59291  
200 SOUTH TRYON STREET, SUITE 200  
CHARLOTTE, NC 28202  
PHONE (704) 333-5131  
CERTIFICATE OF AUTHORIZATION NO. 696

TOWNSEND STREET ROADWAY  
AND STORMWATER IMPROVEMENTS

CITY OF  
WAUCHULA  
COUNTY  
HARDEE

STORMWATER MANAGEMENT  
FACILITY PLAN SHEET

SHEET  
NO.

48



GENERAL NOTES:

THE PROJECT CORRIDOR IS KNOWN TO CONTAIN REGULATED FACILITIES CONTAINING PETROLEUM CONTAMINATION IN BOTH SOIL AND GROUNDWATER. A REVIEW OF INFORMATION AVAILABLE ON THE FDEP CONTAMINATION LOCATOR MAP AT (<https://ca.dep.state.fl.us/mapdirect/?focus=standard>)

THE FOLLOWING SITES WERE IDENTIFIED AS BEING LOCATED ADJACENT TO THE PROJECT:

- K-BROTHERS CONVENIENCE STORE (FAC. ID NO. 8626286)
- CHARLES HARPOLE PROPERTY (FAC. ID NO. 9201750)
- WAUCHULA BULK PLANT (FAC. ID NO. 8508676)

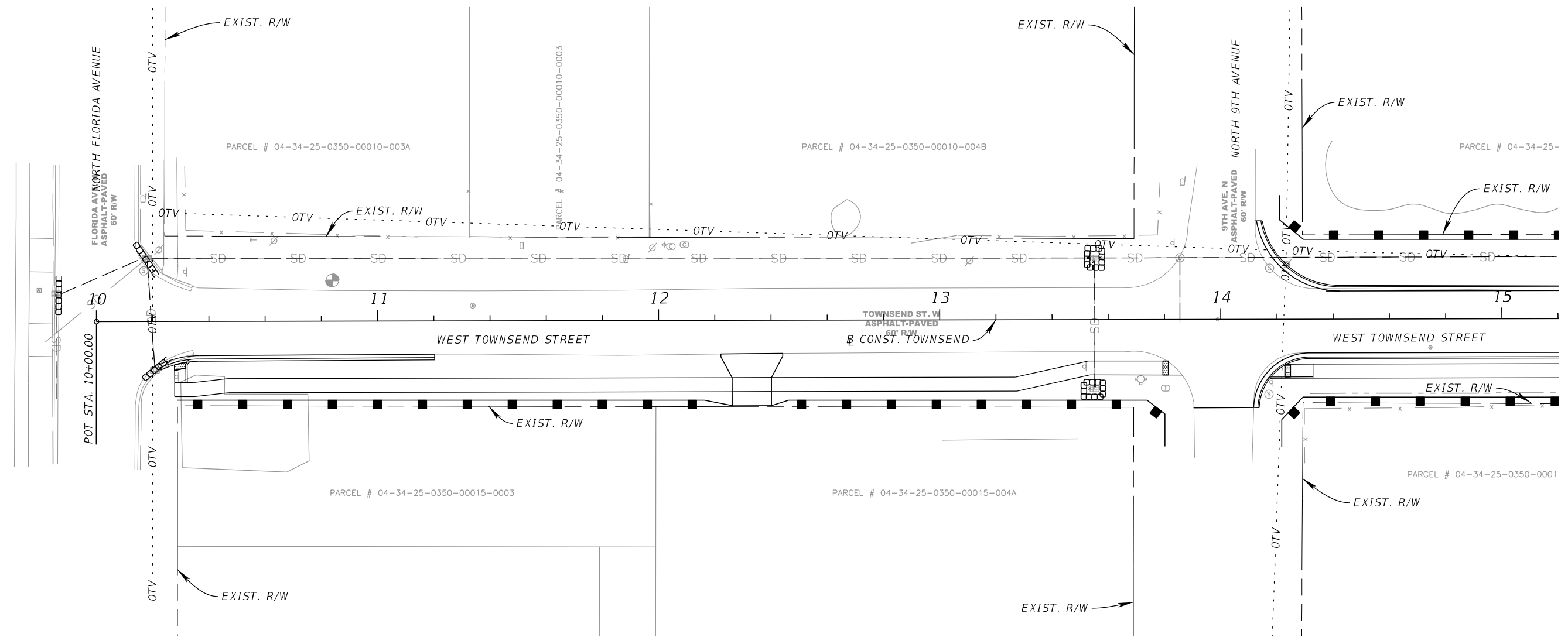
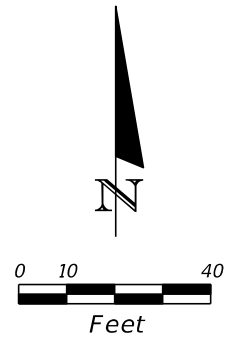
THIS SOIL MANAGEMENT PLAN WAS PREPARED TO ADDRESS THE IMPACTED SOIL TO BE EXCAVATED DURING CONSTRUCTION AND PROVIDE PROTOCOL FOR THE HANDLING, MANAGEMENT AND DISPOSAL OF ANY MATERIAL PLANNED FOR OFFSITE DISPOSAL ON THE SITE. THE GENERAL CONTRACTOR (GC) AND THEIR SUB-CONTRACTORS THAT ENGAGE IN EARTH WORK ACTIVITIES OR POTENTIALLY COME IN CONTACT WITH THIS CONTAMINATED MEDIA ARE RESPONSIBLE FOR FOLLOWING THE PROVISIONS SET FORTH IN THIS PLAN.

1. THE GC AND ANY SUB-CONTRACTORS WHOSE EMPLOYEES WILL ENGAGE IN EARTH WORK ACTIVITIES OR WHOSE EMPLOYEES WILL POTENTIALLY COME IN CONTACT WITH CONTAMINATED MEDIA SHALL PREPARE A SITE-SPECIFIC HEALTH AND SAFETY PLAN (HASP). THE HASP SHALL BE PREPARED BY A CERTIFIED INDUSTRIAL HYGIENIST AND BE COMPLIANT WITH 29 CFR 1926. THE HASP SHALL ADDRESS POTENTIAL WORKER EXPOSURE ISSUES ASSOCIATED WITH HANDLING, MANAGING OR COMING IN CONTACT WITH THE CONTAMINATED MEDIA. COPIES OF THE SITE-SPECIFIC HASP SHALL BE MAINTAINED ON-SITE THROUGH THE DURATION OF THE SITE CONSTRUCTION ACTIVITIES. ADDITIONALLY, THE CIVIL ENGINEERING CONSULTANT (CEC) SHALL BE PROVIDED WITH COPIES OF THE HASP PREPARED BY THE GC AND ITS SUB-CONTRACTORS.
2. THE GC SHALL ATTEND AT LEAST ONE PRE-CONSTRUCTION MEETING WITH CEC TO DISCUSS THE ISSUES ASSOCIATED WITH DISTURBING THE SUBSURFACE IN AREAS WHERE CONTAMINATION IS DOCUMENTED AS BEING PRESENT. THE GC WILL COORDINATE WITH THE CEC PRIOR TO CONDUCTING ANY SUB-SURFACE EXCAVATIONS ASSOCIATED WITH THE SITE OR ANY OTHER ACTIVITIES THAT INVOLVE DISTURBING THE SUBSURFACE SOILS IN THOSE AREAS WHERE IMPACTS ARE KNOWN OR SUSPECTED TO BE PRESENT.
3. THE GC IS RESPONSIBLE FOR THE IMPLEMENTATION OF BEST MANAGEMENT PRACTICES AT THE SUBJECT SITE RELEVANT TO THE EXCAVATION, TRANSPORTATION AND DISPOSAL OF THE CONTAMINATED MATERIAL. ALL EXCAVATIONS SHALL BE SECURED AT THE END OF THE WORKDAY.
4. EXCAVATED MATERIAL THAT LEAVES THE SITE MUST BE PROPERLY CHARACTERIZED FOR DISPOSAL AT A LICENSED AND PERMITTED DISPOSAL FACILITY. THE GC SHALL CONTACT THE DISPOSAL FACILITY AND DETERMINE PARAMETERS FOR ANALYSES. THE PARAMETERS SHALL BE BASED ON HISTORICAL INFORMATION REFERENCED ABOVE AND OTHER PARAMETERS REQUIRED BY THE DISPOSAL FACILITY. ANY ADDITIONAL SOIL TESTING SHALL BE COLLECTED IN ACCORDANCE WITH FDEP STANDARD OPERATING PROCEDURES, AS DEFINED IN CHAPTER 62-160, F.A.C., EFFECTIVE APRIL 18, 2018. THE NUMBER OF SAMPLES TO BE TESTED SHALL BE IN ACCORDANCE WITH TABLE A, CHAPTER 62-713, F.A.C. AT A MINIMUM, THE SAMPLES SHALL BE TESTED FOR 8 RCRA Metals, TOTAL RECOVERABLE PETROLUUM HYDROCARBONS (TRPH) by the FL-PRO Method, POLYCYCLIC AROMATIC HYDROCARBONS (PAHs), AND OTHER ANALYSES AS REQUIRED BY THE DISPOSAL FACILITY. THE GC WILL PROVIDE ALL SOIL TESTING DATA TO THE CEC WITHIN 4 HOURS AFTER RECEIPT FROM THE LABORATORY.
5. UPON APPROVAL FROM THE ACCEPTING LANDFILL FACILITY, THE IMPACTED MATERIAL SHALL BE DIRECT LOADED INTO TRUCKS FOR IMMEDIATE TRANSPORTATION TO THE DESIGNATED DISPOSAL FACILITY. SILT FENCING, SILT BARRIERS OR OTHER APPLICABLE BEST MANAGEMENT PRACTICES SHALL BE EMPLOYED TO PRECLUDE RUNOFF OR WIND-BORN DISPERSION OF THE IMPACTED MATERIAL.
6. THE GC IS RESPONSIBLE FOR PROPERLY MANIFESTING ANY MATERIAL FOR DISPOSAL. COPIES OF THE BILL OF LADING, WEIGH TICKETS, DISPOSAL MANIFESTS AND/OR OTHER RELEVANT DOCUMENTATION RELATIVE TO THE TRANSPORTATION AND DISPOSAL OF THE MATERIAL SHALL BE PROVIDED TO THE CEC.
7. NO SOIL FROM THE AREA SHALL BE USED ON-SITE. NOR SHALL IT BE TRANSPORTED OFF-SITE FOR USE ELSEWHERE.
8. THE GC IS RESPONSIBLE FOR ENSURING THE QUALITY OF THE FILL MATERIAL BROUGHT ONTO THE SITE MEETS APPLICABLE SCLTS. THE GC IS RESPONSIBLE FOR PROVIDING THE CEC WITH DOCUMENTATION REGARDING THE QUALITY OF THE SOIL IMPORTED ONTO THE SITE AS FILL MATERIAL.

DISCOVERY OF CONTAMINATION

1. IF EVIDENCE OF CHEMICAL ODORS, SOIL STAINING, FREE PRODUCT, SOIL CONTAINING CONTAMINANTS IN EXCESS OF RESIDENTIAL, OR GROUNDWATER LEACHABILITY SOIL CLEANUP TARGET LEVELS, SOLID WASTE, OILY SHEENS, STRONG OR OTHER EVIDENCE OF CONTAMINATION ("CONTAMINATION") IS IDENTIFIED DURING CONSTRUCTION, WORK IN THE AFFECTED AREA SHALL CEASE IMMEDIATELY AND THE GENERAL CONTRACTOR SHALL CONTACT THE CEC. THE GENERAL CONTRACTOR SHALL CONVEY TO THE CEC THE LOCATION, TYPE, DISPOSITION, AND APPROXIMATE SIZE OF THE CONTAMINATION.
2. THE GENERAL CONTRACTOR, UPON DISCOVERY OF THE CONTAMINATION, SHALL MAKE A DETERMINATION AS TO WHETHER SAFE WORKING CONDITIONS PREVAIL. IT IS UP TO THE GENERAL CONTRACTOR TO STOP WORK IMMEDIATELY IF A CONDITION IMMEDIATELY DANGEROUS TO LIFE, HEALTH OR THE ENVIRONMENT IS PRESENT IN ASSOCIATION WITH THE IDENTIFIED CONTAMINATION.
3. IF THE GENERAL CONTRACTOR DETERMINES THAT SAFE WORKING CONDITIONS PREVAIL IN THE AFFECTED AREA, THEN THE GC SHALL SECURE THE AREA AND TAKE STEPS TO ENSURE THAT THE EXTENT OF THE CONTAMINATION IS NOT EXACERBATED.
4. ONCE THE NATURE OF THE IDENTIFIED CONTAMINATION HAS BEEN DETERMINED, THE CEC SHALL MAKE THE REQUISITE REGULATORY NOTIFICATIONS AND PROVIDE PROTOCOL FOR CORRECTIVE MEASURES TO BE IMPLEMENTED.

REVISIONS				KIMLEY-HORN AND ASSOCIATES, INC. ROBERT CONERLY, P.E. P.E. LICENSE NUMBER 59291 200 SOUTH TRYON STREET, SUITE 200 CHARLOTTE, NC 28202 PHONE (704) 333-5131 CERTIFICATE OF AUTHORIZATION NO. 696	TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS		SOIL MANAGEMENT PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		CITY OF	COUNTY		
					WAUCHULA	HARDEE		49



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

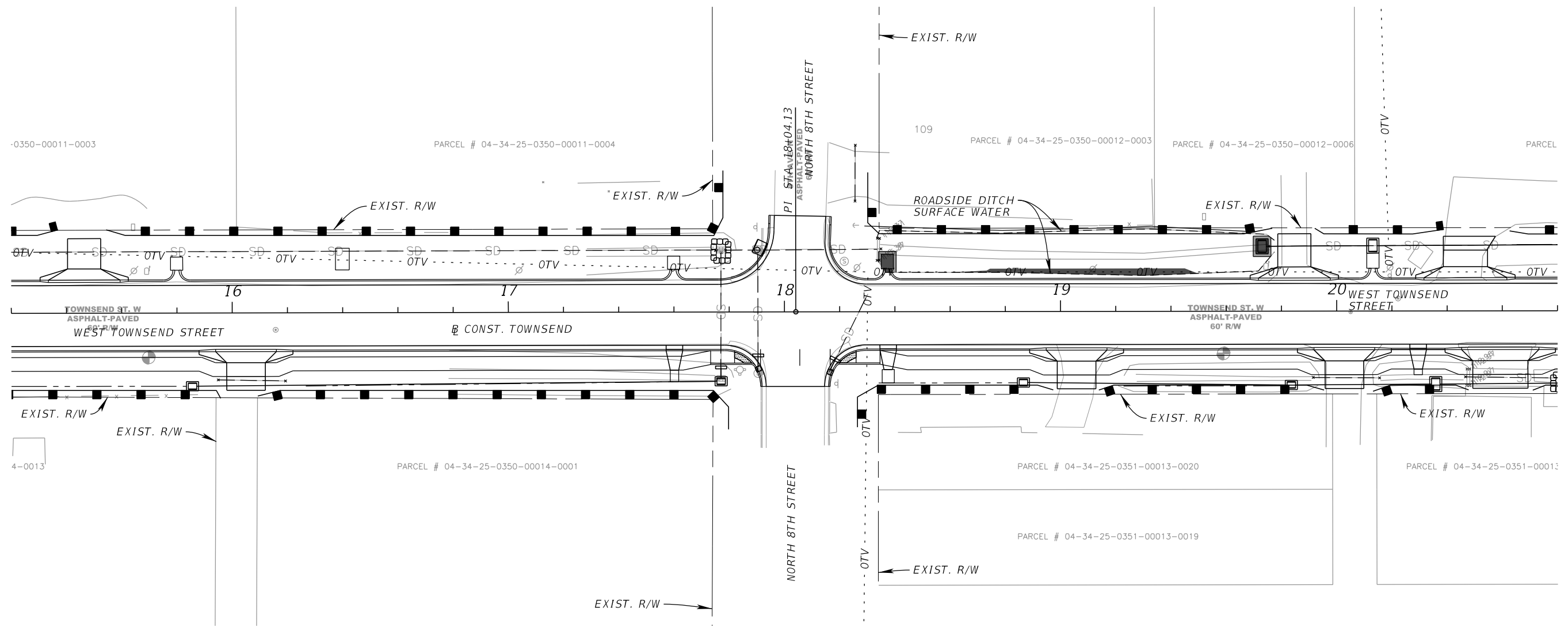
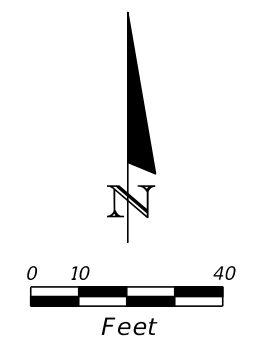
KIMLEY-HORN AND ASSOCIATES, INC.  
 ROBERT CONERLY, P.E.  
 P.E. LICENSE NUMBER 59291  
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**TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS**  
 CITY OF WAUCHULA      COUNTY HARDEE

**EROSION CONTROL AND SURFACE WATER IMPACT PLAN (1)**

SHEET NO. 50

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



**LEGEND**

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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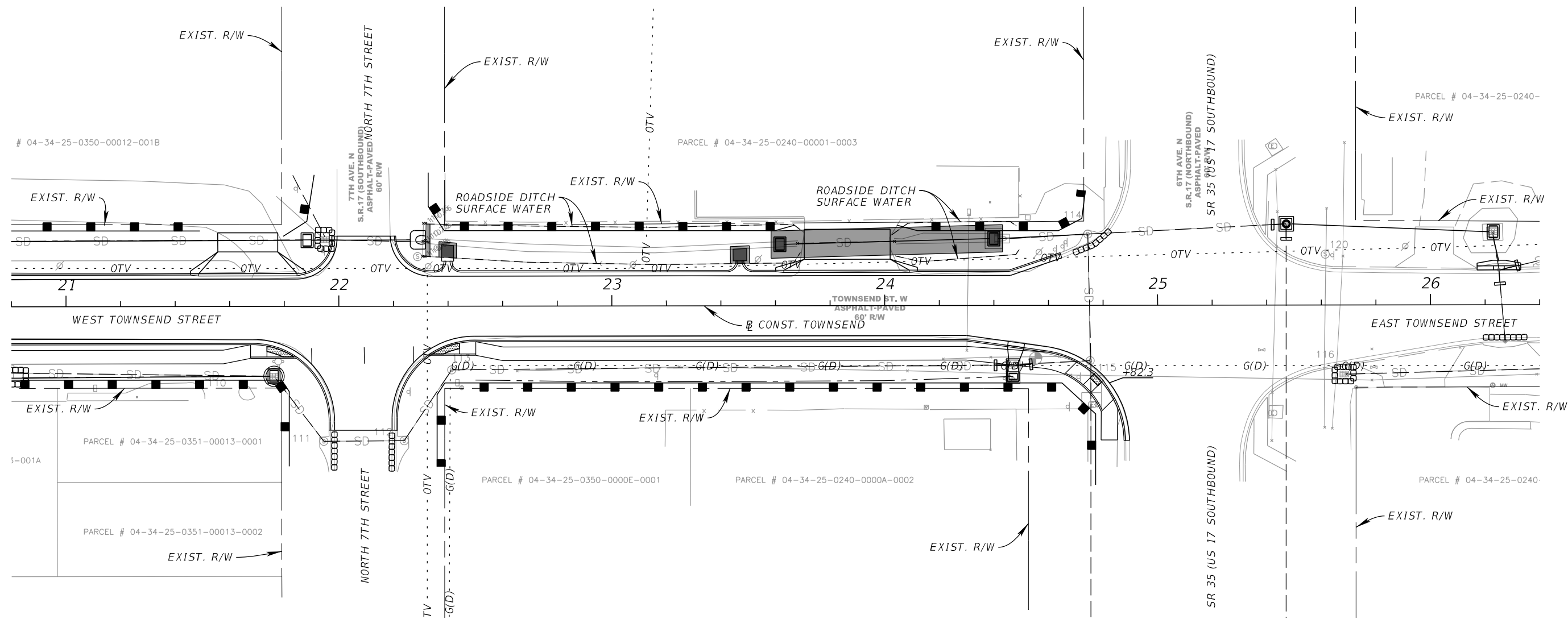
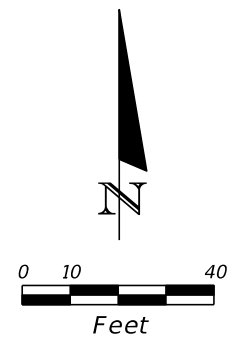
**TOWNSEND STREET ROADWAY  
 AND STORMWATER IMPROVEMENTS**

CITY OF	COUNTY
WAUCHULA	HARDEE

**EROSION CONTROL  
 AND SURFACE WATER  
 IMPACT PLAN (2)**

SHEET NO.  
**51**

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



**LEGEND**

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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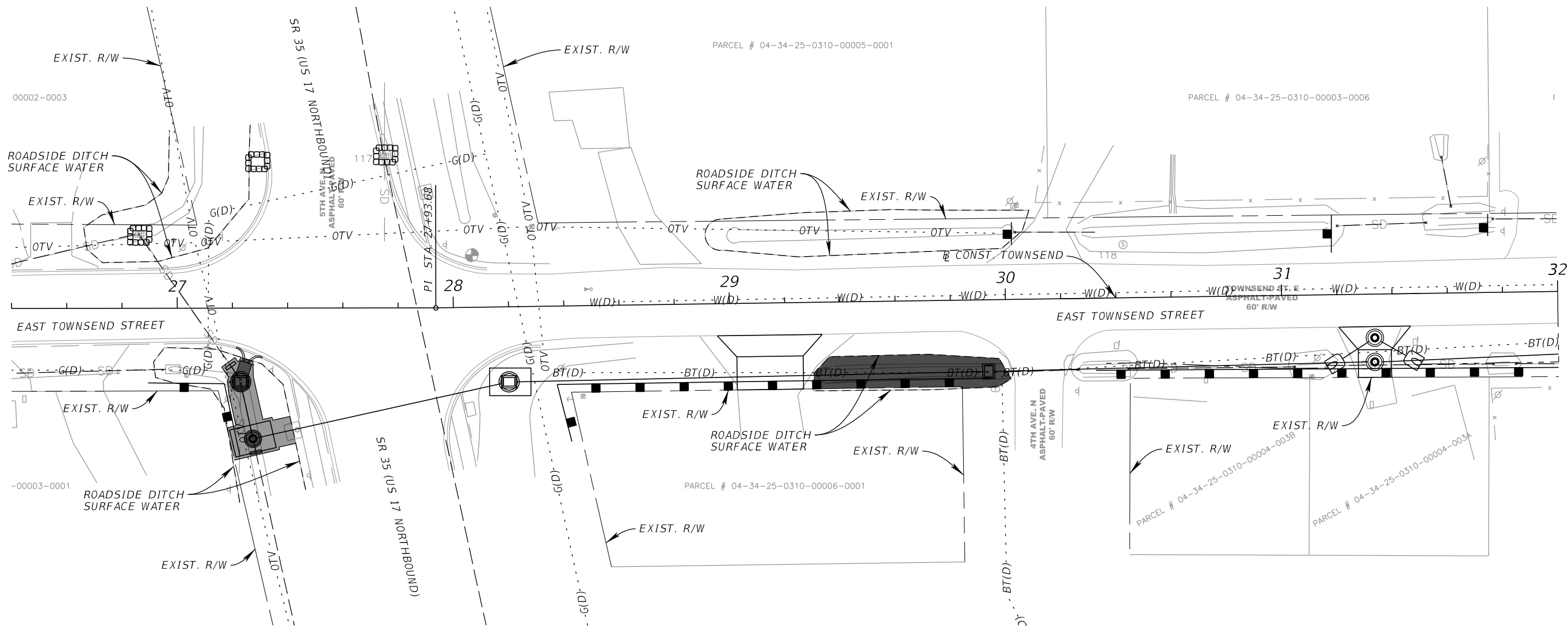
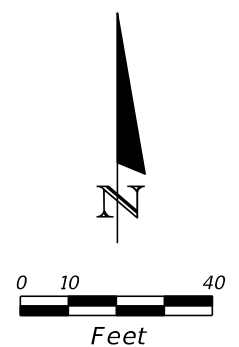
**TOWNSEND STREET ROADWAY  
 AND STORMWATER IMPROVEMENTS**

CITY OF	COUNTY
WAUCHULA	HARDEE

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

SHEET NO.  
**52**

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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.  
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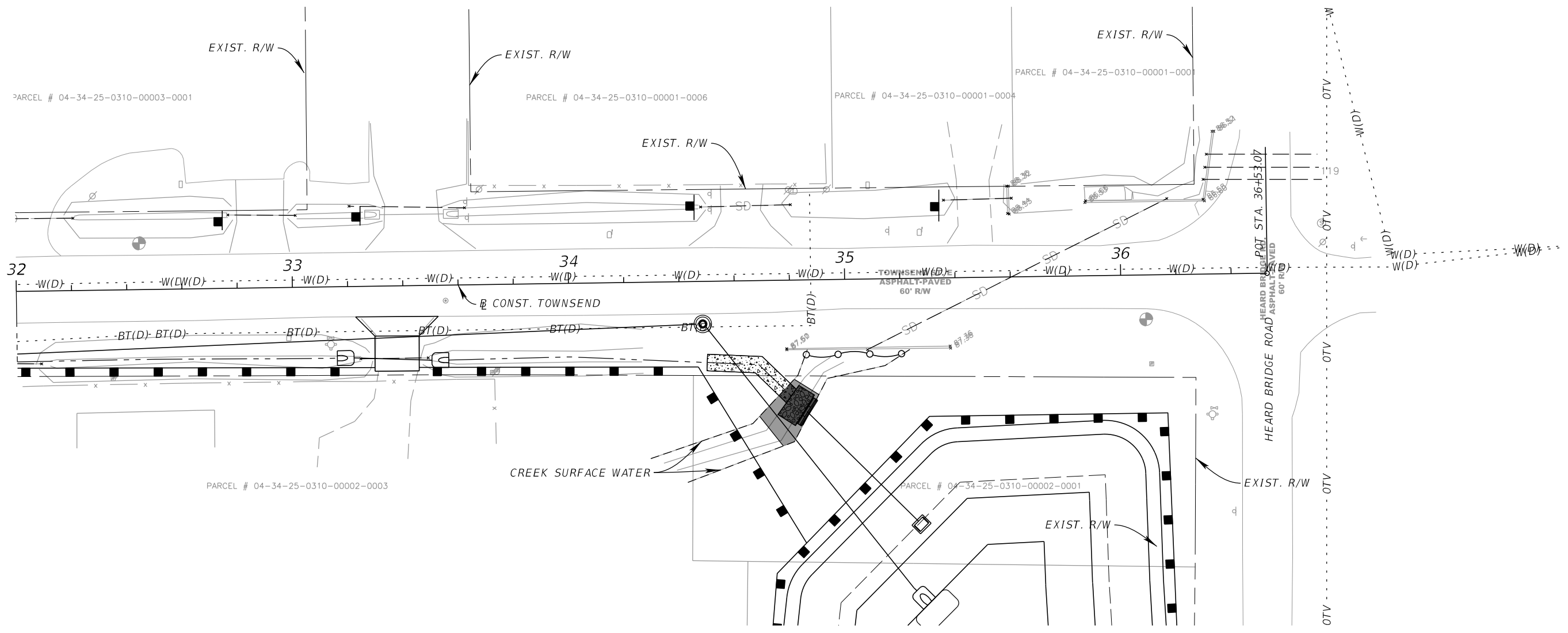
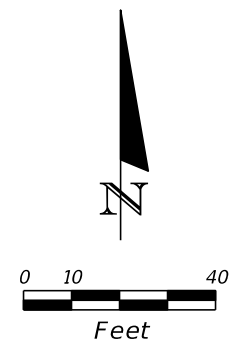
**TOWNSEND STREET ROADWAY  
 AND STORMWATER IMPROVEMENTS**

CITY OF	COUNTY
WAUCHULA	HARDEE

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

SHEET NO.  
**53**

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**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.  
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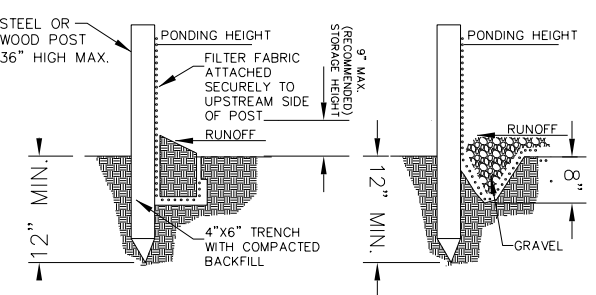
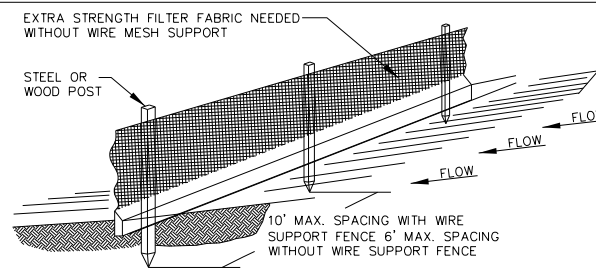
**TOWNSEND STREET ROADWAY  
 AND STORMWATER IMPROVEMENTS**

CITY OF	COUNTY
WAUCHULA	HARDEE

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

SHEET NO.  
**54**

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

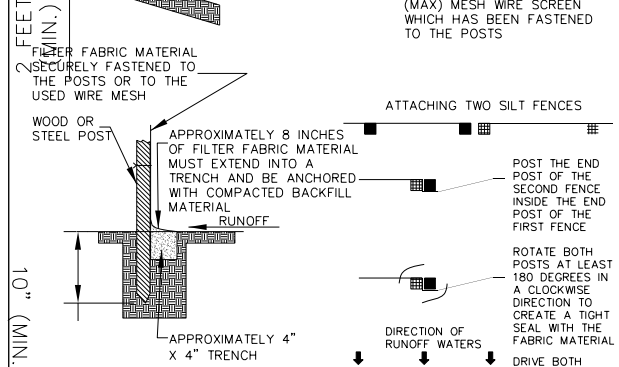
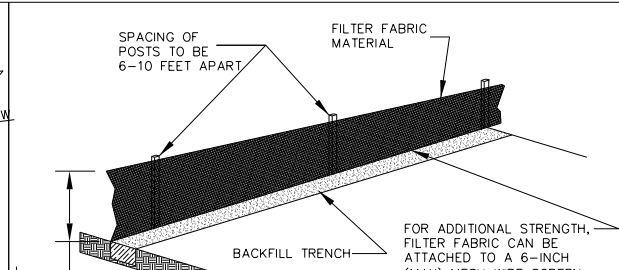


**STANDARD DETAIL**  
TRENCH WITH NATIVE BACKFILL

**ALTERNATE DETAIL**  
TRENCH WITH GRAVEL

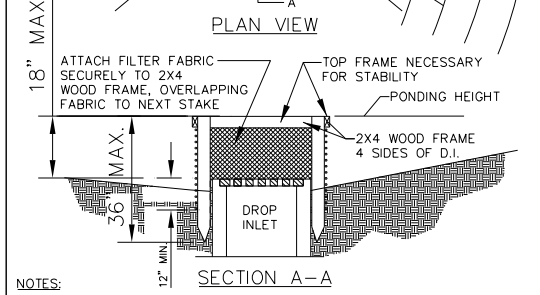
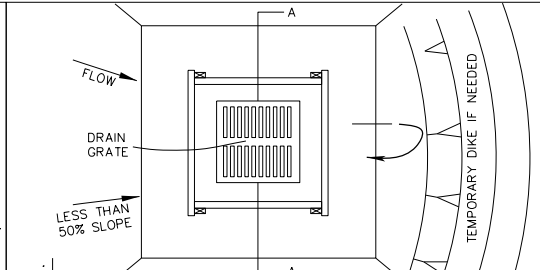
- NOTE:**
1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
  2. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
  3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

**SILT FENCE DETAIL**



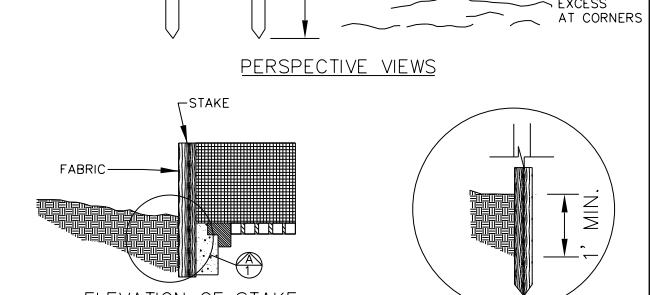
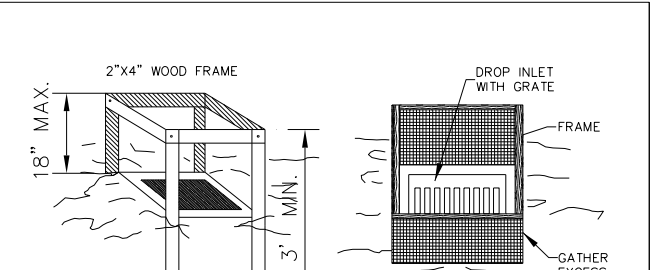
- ATTACHING TWO SILT FENCES**
- POST THE END POST OF THE SECOND FENCE INSIDE THE END POST OF THE FIRST FENCE
- ROTATE BOTH POSTS AT LEAST 180 DEGREES IN A CLOCKWISE DIRECTION TO CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL
- DRIVE BOTH POSTS 18 INCHES INTO THE GROUND AND BURY FLAP
- DIRECTION OF RUNOFF WATERS

**SILT FENCE INSTALLATION DETAIL**

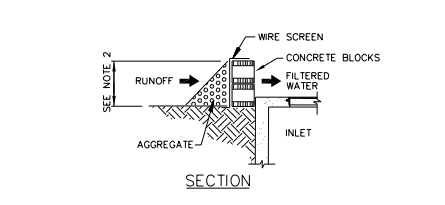
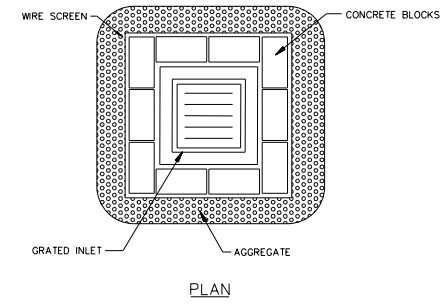


- NOTES:**
1. DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS
  2. USE 2X4 OR EQUIVALENT METAL STAKES, (3' MIN. LENGTH)
  3. INSTALL 2X4 TOP WOOD FRAME TO INSURE STABILITY.
  4. THE TOP OF THE FRAME (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE 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**

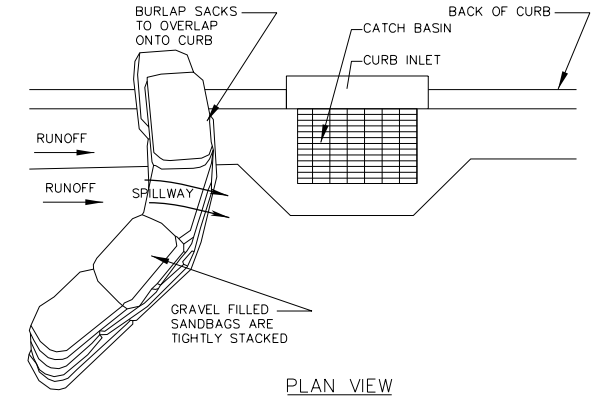


- ELEVATION OF STAKE AND FABRIC ORIENTATION**
- SPECIFIC APPLICATION:**
- THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS IS A RELATIVELY FLAT AREA (SLOPE NO GREATER THAN 5%) WHERE THE INLET SHEET OR OVERLAND FLOWS (NOT EXCEEDING 1 C.F.S.) ARE TYPICAL. THE METHOD SHALL NOT APPLY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



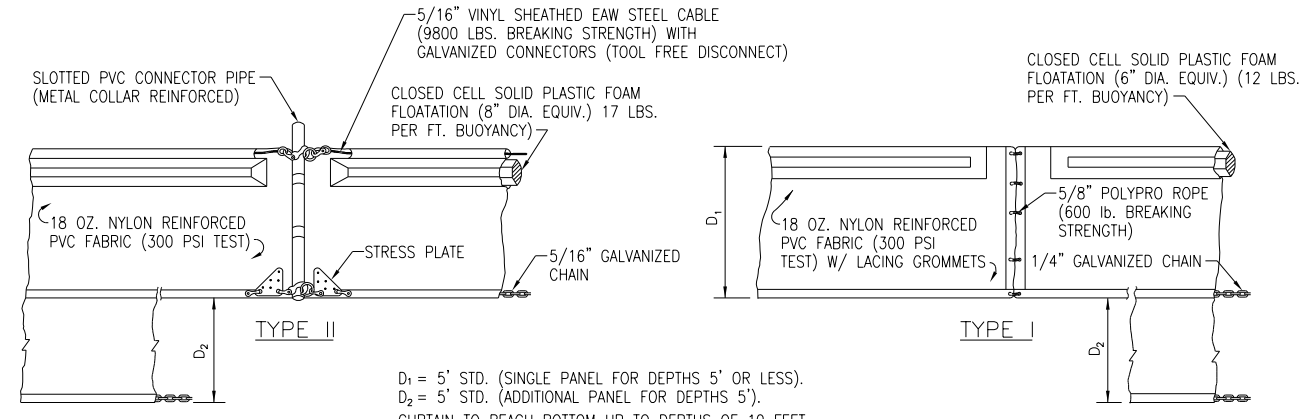
1. PLACE CONCRETE BLOCKS IN A SINGLE ROW AROUND PERIMETER OF INLET ON THEIR SIDES, WITH ENDS OF ADJACENT BLOCKS ABUTTING
2. HEIGHT OF BARRIER VARIES. USE STACKS OF 4-INCH, 8-INCH, OR 12" BLOCKS. MIN. HEIGHT OF BARRIER 12" AND MAX. HEIGHT OF 24"
3. PLACE HARDWARE CLOTH/WIRE MESH W/ MAX. 1/2" OPENINGS 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**



- NOTES:**
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**



- TYPE II**
- TYPE I**
- $D_1 = 5'$  STD. (SINGLE PANEL FOR DEPTHS 5' OR LESS).  
 $D_2 = 5'$  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

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 CHARLOTTE, NC 28202  
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 CERTIFICATE OF AUTHORIZATION NO. 696

**TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS**

CITY OF WAUCHULA COUNTY HARDEE

**EROSION CONTROL DETAILS**

SHEET NO. 55

**TEMPORARY TRAFFIC CONTROL PLAN GENERAL NOTES**

1. THE CONTRACTOR SHALL PROVIDE FOR THE SAFE MOVEMENT OF PEDESTRIANS AND VEHICLES THROUGHOUT ALL PHASES OF CONSTRUCTION, INCLUDING DELIVERIES AND DROP-OFFS IN WORK ZONES. THE CONTRACTOR SHALL FURNISH, ERECT, AND MAINTAIN ALL NECESSARY TRAFFIC CONTROL AND SAFETY DEVICES, IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) 2009 EDITION AND THE CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION FY 2020-21 STANDARD PLANS FOR ROAD CONSTRUCTION, INDEX 102-600, AS AMENDED BY THE SPECIFICATIONS FOR THIS PROJECT.
2. FOR WORK WITHIN FDOT RIGHT-OF-WAY, THE FDOT REQUIRES DOCUMENTATION FOR SUCCESSFUL COMPLETION OF AN APPROVED WORK ZONE TRAFFIC CONTROL TRAINING COURSE FOR THE AGENCY, UTILITY, OR CONTRACTOR EMPLOYEE(S) DESIGNING, INSTALLING, AND/OR MAINTAINING THE APPROVED MAINTENANCE OF TRAFFIC PLAN IN ACCORDANCE WITH DEPARTMENT PROCEDURE, TOPIC NO. 625-010-010.
3. THE SEQUENCE OF CONSTRUCTION AND METHODS DESCRIBED IN THIS PLAN SET, IF PROVIDED, IS A SUGGESTED MAINTENANCE OF TRAFFIC SCHEME. THE CONTRACTOR HAS THE OPTION, AT HIS EXPENSE, TO SUBMIT FOR APPROVAL HIS OWN "TRAFFIC CONTROL THROUGH WORK ZONE" PLANS, PRIOR TO CONSTRUCTION. ALL CONTRACTOR PROPOSED TRAFFIC CONTROL PLANS/SCHEMES MUST BE SIGNED AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER, AND SHALL BE IN ACCORDANCE WITH FDOT INDEX 102-600 SERIES REQUIREMENTS.
4. ACCESS TO ALL SIDE STREETS AND DRIVEWAYS SHALL BE CONTINUOUSLY MAINTAINED FOR THE DURATION OF THE PROJECT, UNLESS PREVIOUSLY APPROVED BY THE CITY.
5. DURING PERIODS OF LANE CLOSURE, THE CONTRACTOR SHALL PROVIDE A FDOT-CERTIFIED WORK SITE TRAFFIC SUPERVISOR FOR THE INSTALLATION, MAINTAINENCE, AND REMOVAL OF TRAFFIC CONTROL DEVICES (E.G. BARRICADES, SIGNS, ARROW PANELS, ETC.).
6. ALL TEMPORARY TRAFFIC CONTROL DEVICES FOR THE FOLLOWING FACILITIES SHALL BE DESIGNED AND INSTALLED TO MEET THE EXISTING POSTED SPEEDS AS STATED FOR ALL TRAFFIC CONTROL PHASES: SR 35 (US 17) - 45 MPH
7. LANE CLOSURE RESTRICTIONS:  
NO LANE CLOSURE WILL BE ALLOWED BETWEEN THE HOURS OF 7:00 AM TO 9:00 AM OR FROM 4:00 PM TO 6:00 PM.
8. THE CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM 7 DAYS IN ADVANCE OF ANY LANE CLOSURES.
9. THE CONTRACTOR SHALL, AT THE DISCRETION OF THE ENGINEER, OPEN ANY TEMPORARY LANE CLOSURE CAUSING EXTENDED TRAFFIC CONGESTION (5 MINUTE DELAY) UNTIL TRAFFIC HAS RETURNED TO AN ACCEPTABLE FLOW AS DETERMINED BY THE ENGINEER.
10. THE CONTRACTOR SHALL NOTIFY ALL LOCAL LAW ENFORCEMENT, EMERGENCY/RESCUE AGENCIES LOCATED IN THE PROJECT VICINITY 24 HOURS IN ADVANCE OF PERFORMING ANY LANE CLOSURES AND DETOURS.
11. ANY DROP-OFF CONDITIONS SHALL BE PROTECTED IN ACCORDANCE WITH FDOT STANDARD PLANS INDEX 102-600.

**PHASING NOTES**

PHASE 1 - TOWNSEND STREET WORK ALONG SHOULDER

1. CONDITIONS: WHERE WORK ACTIVITIES ENCR OACH THE AREA ALONG THE SHOULDER BUT NOT CLOSER THAN 2' TO THE EDGE OF TRAVEL, INSTALL WORK ZONE TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH FDOT STANDARD PLANS INDEX 102-602. MAINTAIN A MINIMUM 10' TRAVEL LANE FOR EACH DIRECTION OF TRAVEL. TRAVEL LANES MAY BE REDUCED TO 10' WIDTH USING CHANNELIZING DEVICES TO ALLOW FOR SHOULDER WORK.
2. INSTALL TEMPORARY ASPHALT SIDEWALK DETOUR AND CROSSWALK TO MAINTAIN PEDESTRIAN ACCESS ON THE WEST SIDE OF THE INTERSECTION OF TOWNSEND STREET AND SR 35 (US 17 SOUTHBOUND). CONSTRUCT SIDEWALK/RAMP IMPROVEMENTS AND INSTALL CROSSWALK MARKINGS. REMOVE TEMPORARY ASPHALT SIDEWALK DETOUR.

PHASE 2 - TOWNSEND STREET WORK THAT ENCR OACHES INTO THE TRAVEL LANES

CONDITIONS: WHERE WORK ACTIVITIES ENCR OACH INTO THE TRAVEL LANE, CLOSE THE TRAVEL LANE AND PROVIDE FOR A SINGLE-LANE, TWO-WAY FLAGGER OPERATION. INSTALL WORK ZONE TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH FDOT STANDARD PLANS 102-603 (WITHOUT TEMPORARY RAISED RUMBLE STRIPS).

PHASE 3 - TOWNSEND STREET MILLING, RESURFACING, STRIPING

CONDITIONS: FOR CONTINUOUS MOVING OPERATION DURING MILLING, RESURFACING, AND PAVEMENT MARKING INSTALLATION, REFER TO FDOT STANDARD PLANS INDEX 102-607 FOR WORK ZONE TRAFFIC CONTROL DEVICES

PHASE 4 - JACK AND BORE PIT OPERATION AT TOWNSEND STREET AND SR35/US 17

CONDITIONS: FOR JACK AND BORE PIT OPERATION, REFER TO FDOT STANDARD PLANS INDEX 102-602 AND 102-612 FOR PLACEMENT OF WORK ZONE TRAFFIC CONTROL DEVICES ALONG TOWNSEND ST AND SR 35/US 17, RESPECTIVELY.

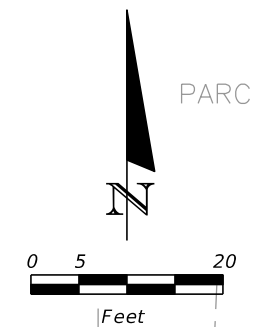
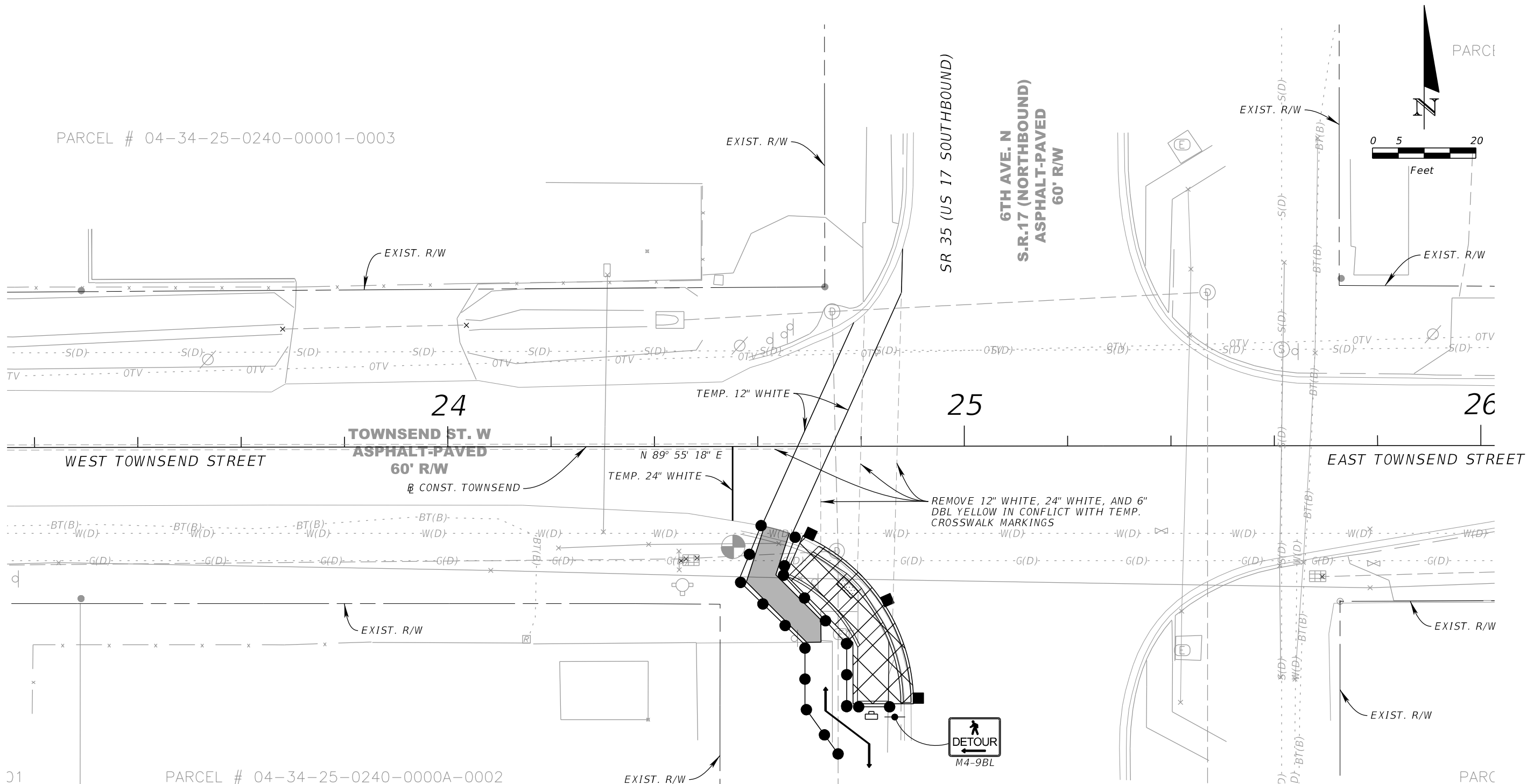
MAINTAIN EXISTING SPEED LIMITS ALONG TOWNSEND STREET AND SR 35/US 17

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.
DATE	DESCRIPTION	DATE	DESCRIPTION		CITY OF	COUNTY		
					WAUCHULA	HARDEE		56



PARCEL # 04-34-25-0240-00001-0003

PARCEL # 04-34-25-0240-0000A-0002



- LEGEND**
- TEMPORARY ASPHALT
  - WORK ZONE
  - PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICE (LCD)
  - WORK ZONE SIGN
  - CHANNELIZING DEVICES (SPACING PER FDOT STANDARD PLANS INDEX 102-602)



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

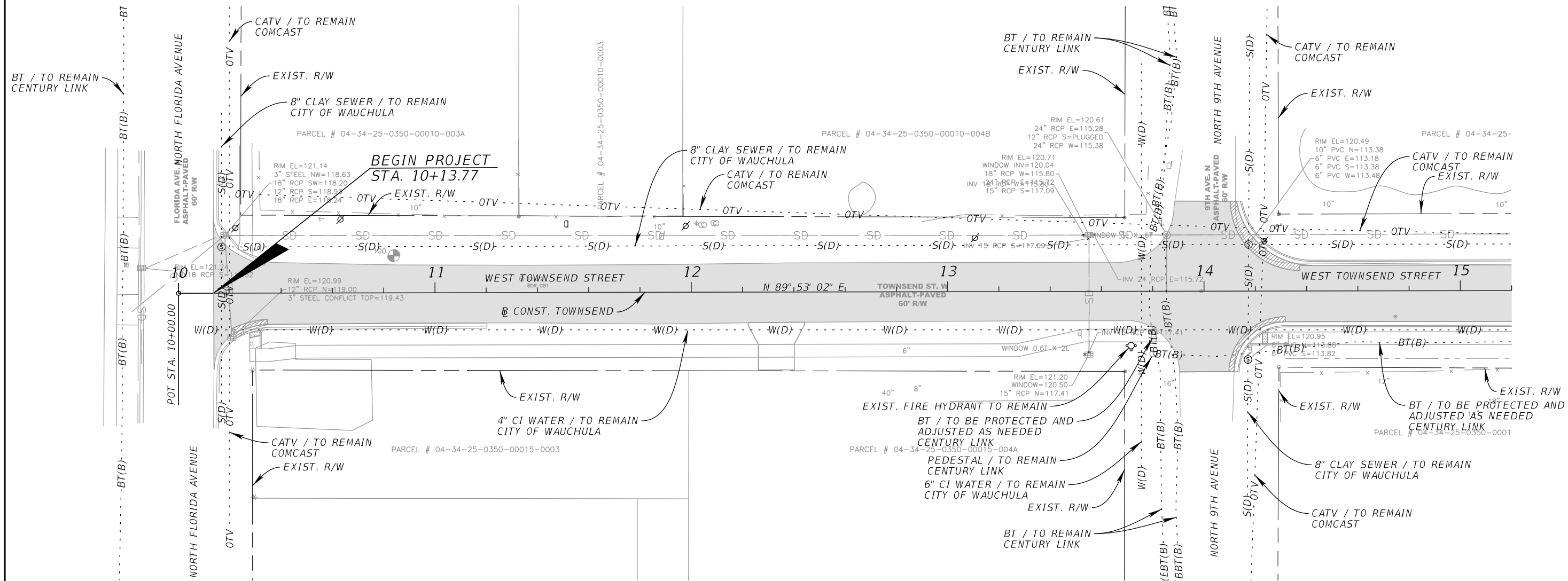
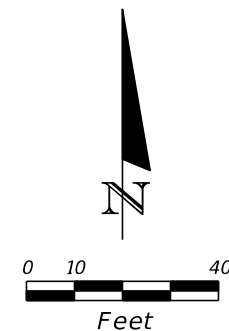
KIMLEY-HORN AND ASSOCIATES, INC.  
 JOHN SEALS, P.E.  
 P.E. LICENSE NUMBER 51505  
 655 N FRANKLIN ST., SUITE 150  
 TAMPA, FL 33602  
 PHONE (813) 620-1460  
 CERTIFICATE OF AUTHORIZATION NO. 696

<b>TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS</b>	
CITY OF	COUNTY
WAUCHULA	HARDEE

**TEMPORARY PEDESTRIAN  
 DETOUR PLAN**

SHEET NO.  
**57**

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



NOTE:  
1. CONTRACTOR TO VERIFY AND PROTECT EXIST. UTILITIES.

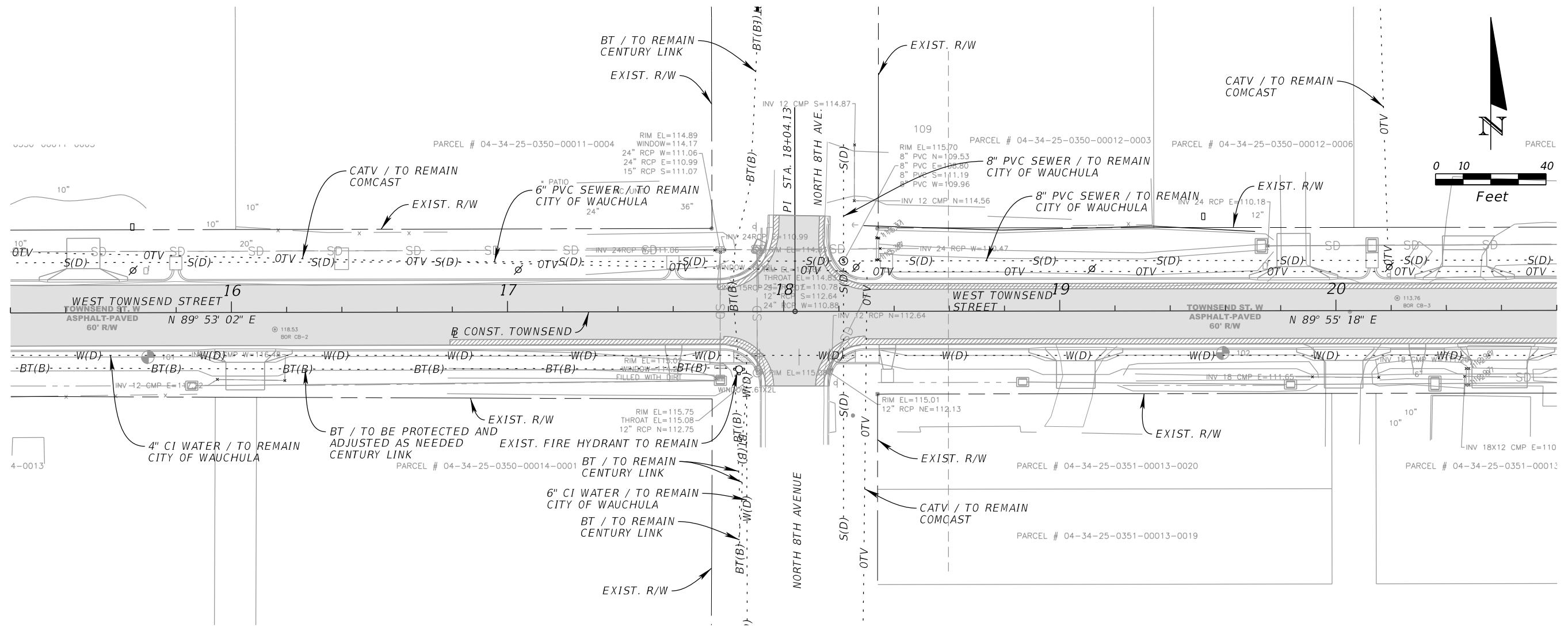
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KIMLEY-HORN AND ASSOCIATES, INC.  
ROBERT CONERLY, P.E.  
P.E. LICENSE NUMBER 59291  
200 SOUTH TRYON STREET, SUITE 200  
CHARLOTTE, NC 28202  
PHONE (704) 333-5131  
CERTIFICATE OF AUTHORIZATION NO. 696

TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS	
CITY OF	COUNTY
WAUCHULA	HARDEE

UTILITY ADJUSTMENT  
SHEET (1)  
58

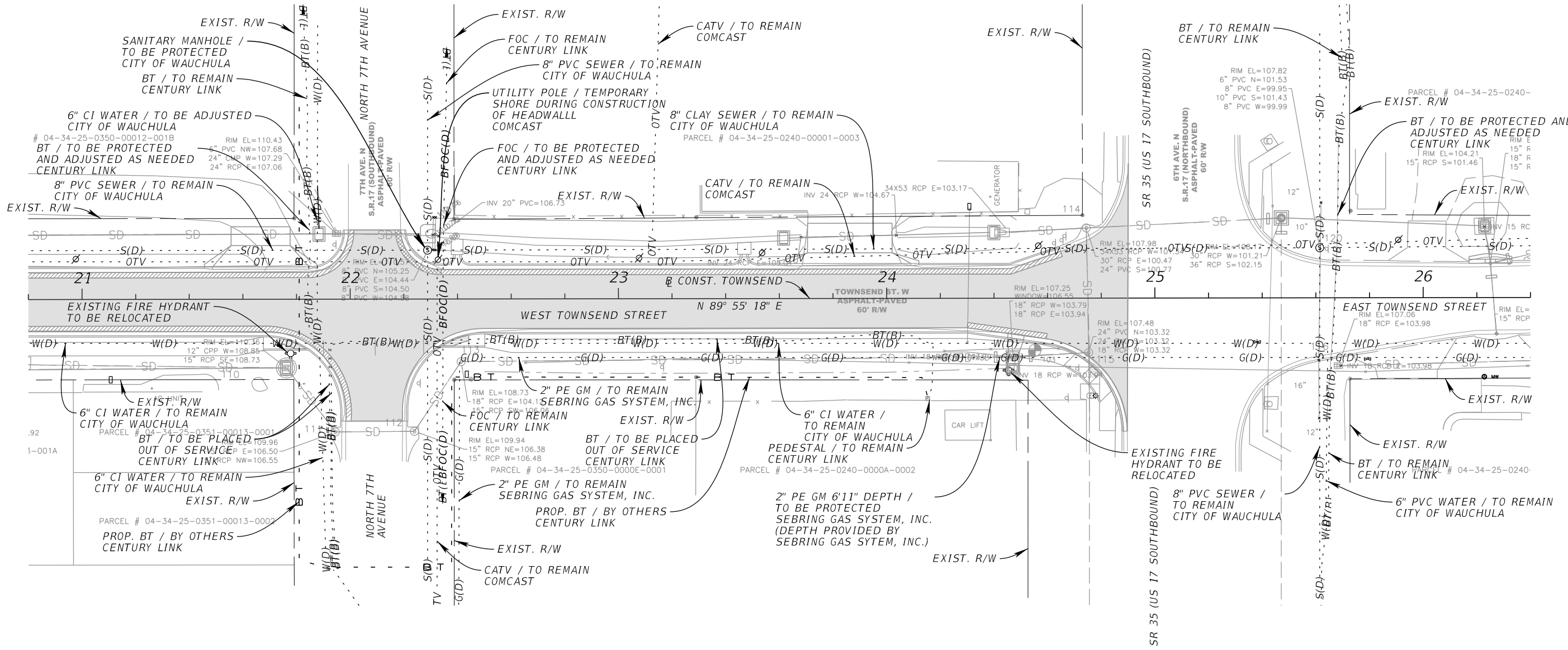
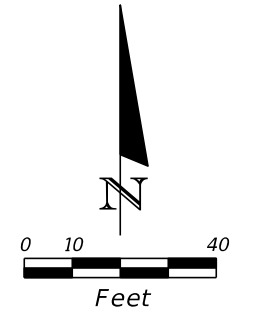
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



NOTE:  
1. CONTRACTOR TO VERIFY AND PROTECT EXIST. UTILITIES.

REVISIONS				KIMLEY-HORN AND ASSOCIATES, INC. ROBERT CONERLY, P.E. P.E. LICENSE NUMBER 59291 200 SOUTH TRYON STREET, SUITE 200 CHARLOTTE, NC 28202 PHONE (704) 333-5131 CERTIFICATE OF AUTHORIZATION NO. 696	TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS		UTILITY ADJUSTMENT SHEET (2)	SHEET NO. 59
DATE	DESCRIPTION	DATE	DESCRIPTION		CITY OF	COUNTY		
					WAUCHULA	HARDEE		

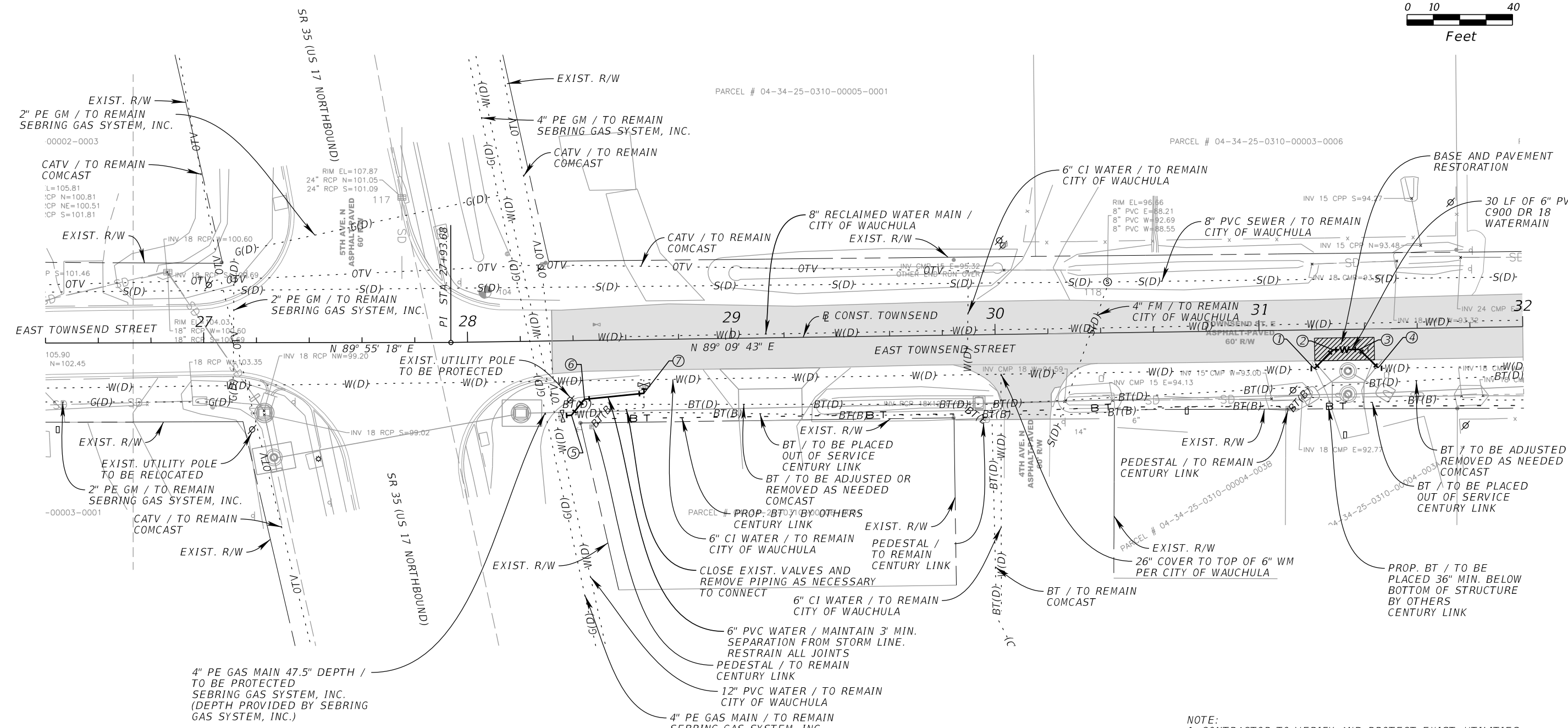
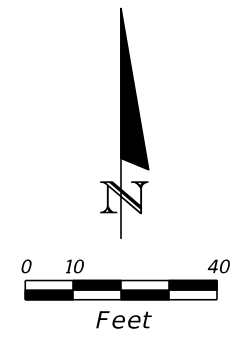
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



NOTE:  
1. CONTRACTOR TO VERIFY AND PROTECT EXIST. UTILITIES.

REVISIONS				KIMLEY-HORN AND ASSOCIATES, INC. ROBERT CONERLY, P.E. P.E. LICENSE NUMBER 59291 200 SOUTH TRYON STREET, SUITE 200 CHARLOTTE, NC 28202 PHONE (704) 333-5131 CERTIFICATE OF AUTHORIZATION NO. 696	TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS		<b>UTILITY ADJUSTMENT</b>  <b>SHEET (3)</b>	SHEET NO.
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.

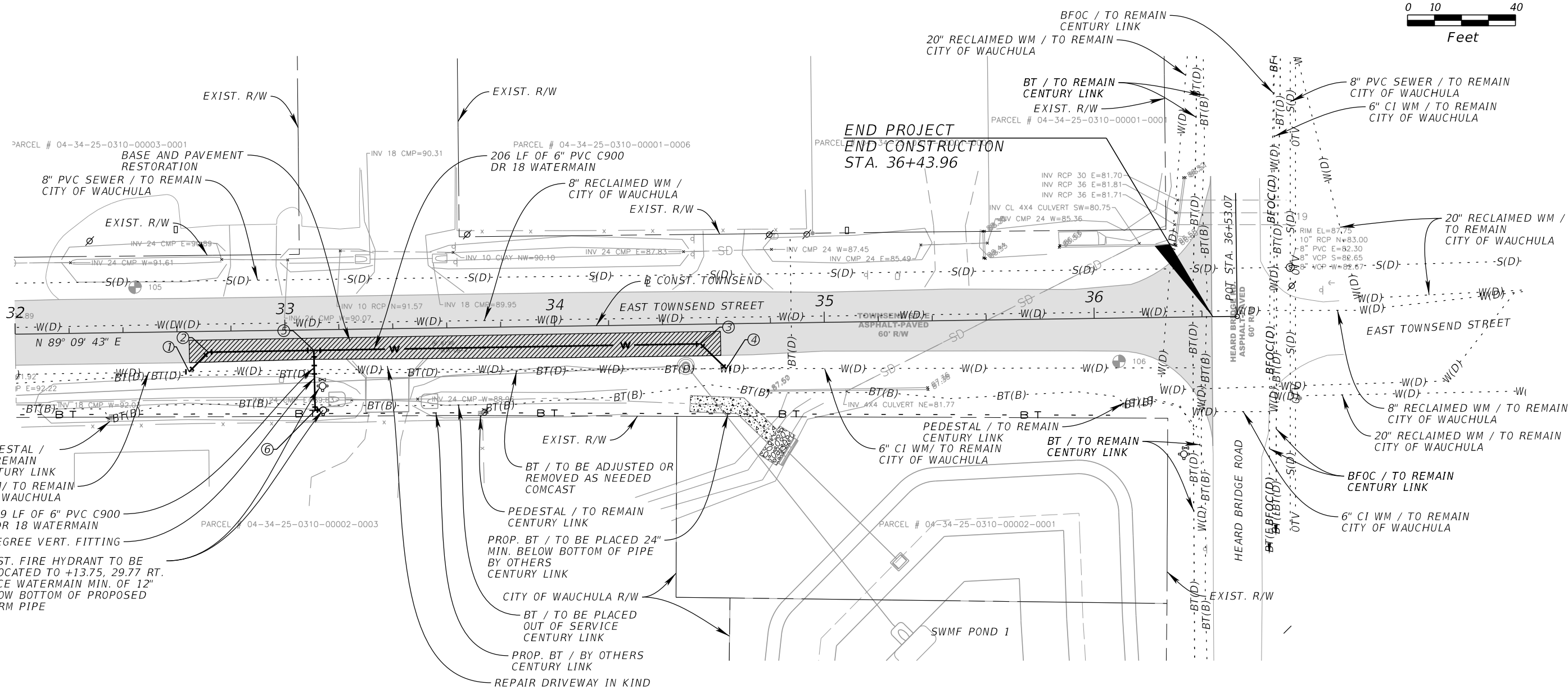
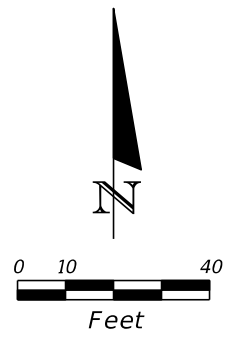


- ① 6" 45 DEGREE BEND WITH 10 FT RESTRAINED PIPE ON BOTH SIDES OF BEND
- ② 6" 45 DEGREE BEND WITH 10 FT RESTRAINED PIPE ON BOTH SIDES OF BEND +27.90, 7.67 RT
- ③ 6" 45 DEGREE BEND WITH 10 FT RESTRAINED PIPE ON BOTH SIDES OF BEND
- ④ 6" 45 DEGREE BEND WITH 10 FT RESTRAINED PIPE ON BOTH SIDES OF BEND
- ⑤ CUT EXIST. AND CONNECT WITH 6" 45 DEGREE BEND (ROLL AS NECESSARY)
- ⑥ 6" 45 DEGREE BEND (ROLL AS NECESSARY)
- ⑦ CUT EXIST. AND CONNECT WITH 6" 90 DEGREE BEND (ROLL AS NECESSARY)

- NOTE:
1. CONTRACTOR TO VERIFY AND PROTECT EXIST. UTILITIES.
  2. CONTRACTOR TO COORDINATE WITH CITY TO ISOLATE SEGMENT OF WATERMAIN PRIOR TO RELOCATION.
  3. CONTRACTOR TO RESTORE ANY SERVICE LINES DISRUPTED THROUGH RELOCATION OF WATERMAIN.
  4. EXIST. WATERMAIN TO BE REMOVED WHERE RELOCATED.

REVISIONS				KIMLEY-HORN AND ASSOCIATES, INC. ROBERT CONERLY, P.E. P.E. LICENSE NUMBER 59291 200 SOUTH TRYON STREET, SUITE 200 CHARLOTTE, NC 28202 PHONE (704) 333-5131 CERTIFICATE OF AUTHORIZATION NO. 696	TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS		<i>UTILITY ADJUSTMENT</i>  <i>SHEET (4)</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		CITY OF	COUNTY		61
				WAUCHULA	HARDEE			

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- ① 6" 45 DEGREE BEND WITH 10 FT RESTRAINED PIPE ON BOTH SIDES
- ② 6" 45 DEGREE BEND WITH 10 FT RESTRAINED PIPE ON BOTH SIDES OF BEND ON BOTH SIDES +71.45, 7.68 RT
- ③ 6" 45 DEGREE BEND WITH 10 FT RESTRAINED PIPE ON BOTH SIDES OF BEND +53.95, 7.27 RT
- ④ 6" 45 DEGREE BEND WITH 10 FT RESTRAINED PIPE ON BOTH SIDES
- ⑤ 6" TEE ANGLED 45 DEGREES DOWN. FIRE HYDRANT ASSEMBLY LINE TO BE RESTRAINED. +10.77, 7.59 RT
- ⑥ 6" 90 DEGREE BEND WITH RESTRAINED PIPE ON BOTH SIDES +10.77, 29.76 RT

- NOTE:
- CONTRACTOR TO VERIFY AND PROTECT EXIST. UTILITIES.
  - CONTRACTOR TO COORDINATE WITH CITY TO ISOLATE SEGMENT OF WATERMAIN PRIOR TO RELOCATION.
  - CONTRACTOR TO RESTORE ANY SERVICE LINES DISRUPTED THROUGH RELOCATION OF WATERMAIN.
  - EXIST. WATERMAIN TO BE REMOVED WHERE RELOCATED.

REVISIONS				KIMLEY-HORN AND ASSOCIATES, INC. ROBERT CONERLY, P.E. P.E. LICENSE NUMBER 59291 200 SOUTH TRYON STREET, SUITE 200 CHARLOTTE, NC 28202 PHONE (704) 333-5131 CERTIFICATE OF AUTHORIZATION NO. 696	TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS		UTILITY ADJUSTMENT SHEET (5)	SHEET NO. 62
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.

**REQUIRED LENGTH OF RESTRAINED JOINT PIPE  
FOR DR-18 PVC PIPE**

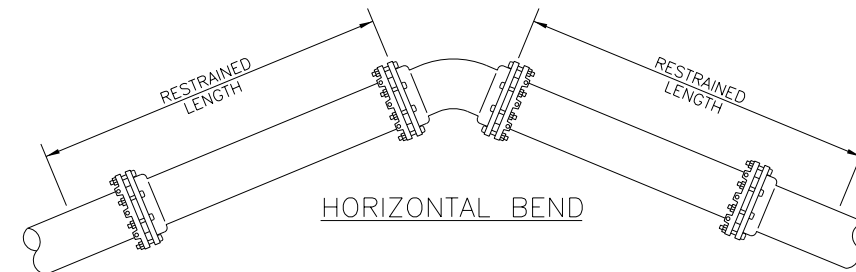
MAIN PIPE SIZE	HORIZ. BENDS			TEES				REDUCERS			PLUGS & VALVES
	90°	45°	22.5°	SIZE		LENGTH		SIZE		LENGTH	
12	43	18	9	X12 91	X10 74	X8 58	X6 38	X10 29	X8 52	X6 72	99
10	37	16	8	X10 76	X8 60	X6 41		X8 28	X6 52	X4 68	84
8	31	13	7	X8 62	X6 44	X4 24		X6 30	X4 50		70
6	24	10	5	X6 46	X4 27			X4 28			53
4	17	8	4	X4 31							38

**NOTES:**

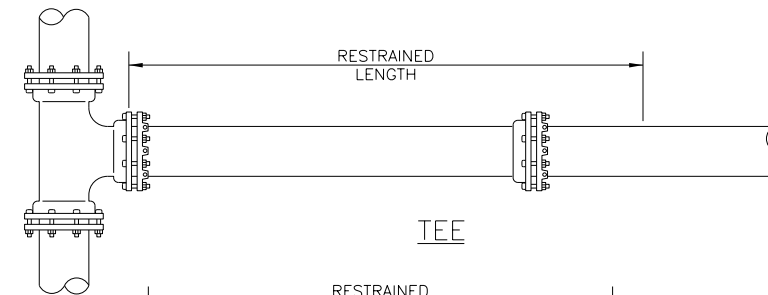
1. RESTRAIN 11.25' BENDS 50% OF LENGTH FOR 22.5° BENDS.
2. ALL VALVES AND FITTINGS SHALL BE RESTRAINED TO THE CONNECTING SECTIONS OF PIPE.
3. ALL ISOLATION VALVES MUST BE PROPERLY ANCHORED OR RESTRAINED TO RESIST A 150 PSI TEST PRESSURE IN EITHER DIRECTION.
4. PIPE SIZES ARE GIVEN IN INCHES.
5. RESTRAINED PIPE LENGTHS ARE GIVEN IN FEET.
6. LENGTHS SHOWN ARE FOR A TEST PRESURE OF 150 PSI.
7. THE RESTRAINED LENGTHS SHOWN IN THESE TABLES ARE BASED ON SOIL CLASSIFICATION SP WITH AWWA TYPE 3 TRENCH CONDITIONS, 150 PSI TEST PRESSURE, 3 FEET OF COVER AND 1.5 FACTOR OF SAFETY. ACTUAL BURY CONDITIONS MUST BE DETERMINED BY THE ENGINEER OF RECORD AND THE RESTRAINED LENGTHS MODIFIED ACCORDINGLY.
8. RESTRAINED LENGTHS TO BE APPLIED TO PIPELINES PER DETAIL RESTRAINED LENGTHS FOR PIPE.

RESTRAINED LENGTHS FOR PVC PIPE  
N.T.S.

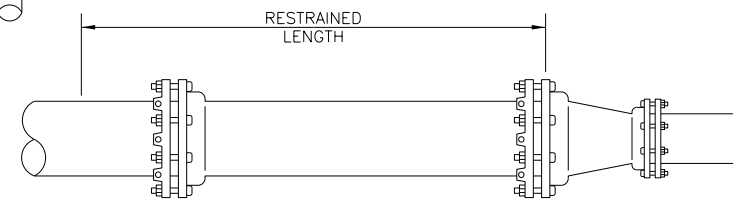
5  
010



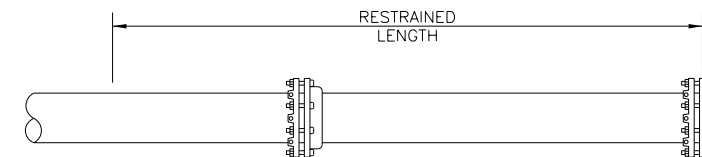
HORIZONTAL BEND



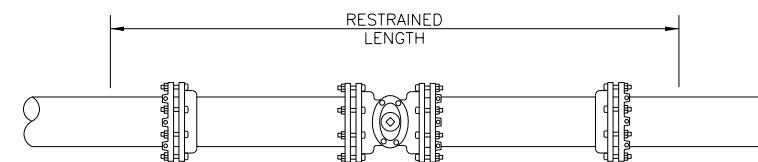
TEE



REDUCER



CAP OR PLUG



ISOLATION VALVE

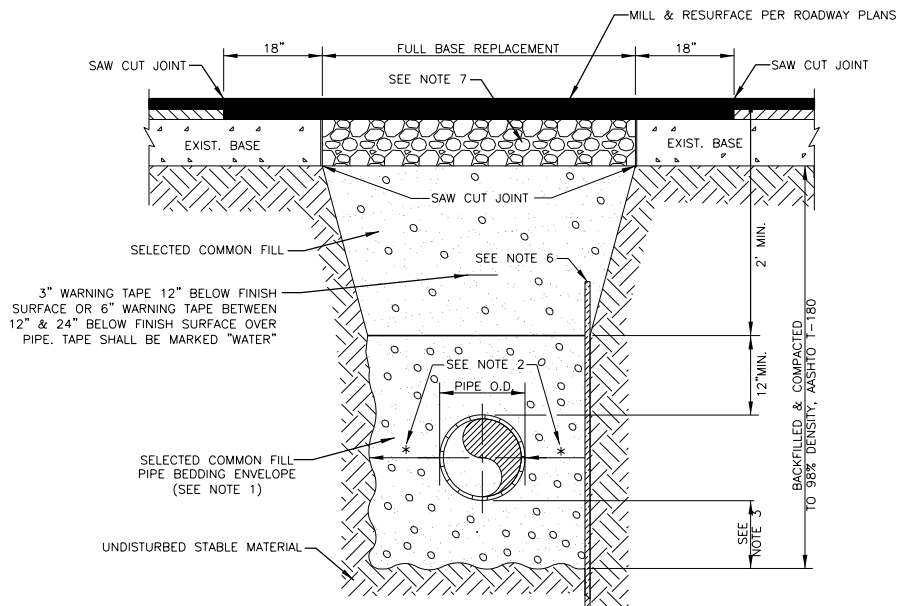
RESTRAINED LENGTHS FOR PIPE  
N.T.S.

6  
010

REVISIONS				KIMLEY-HORN AND ASSOCIATES, INC. ROBERT CONERLY, P.E. P.E. LICENSE NUMBER 59291 200 SOUTH TRYON STREET, SUITE 200 CHARLOTTE, NC 28202 PHONE (704) 333-5131 CERTIFICATE OF AUTHORIZATION NO. 696	TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS		UTILITY ADJUSTMENT DETAILS (1)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		CITY OF	COUNTY		63
					WAUCHULA	HARDEE		

**NOTES:**

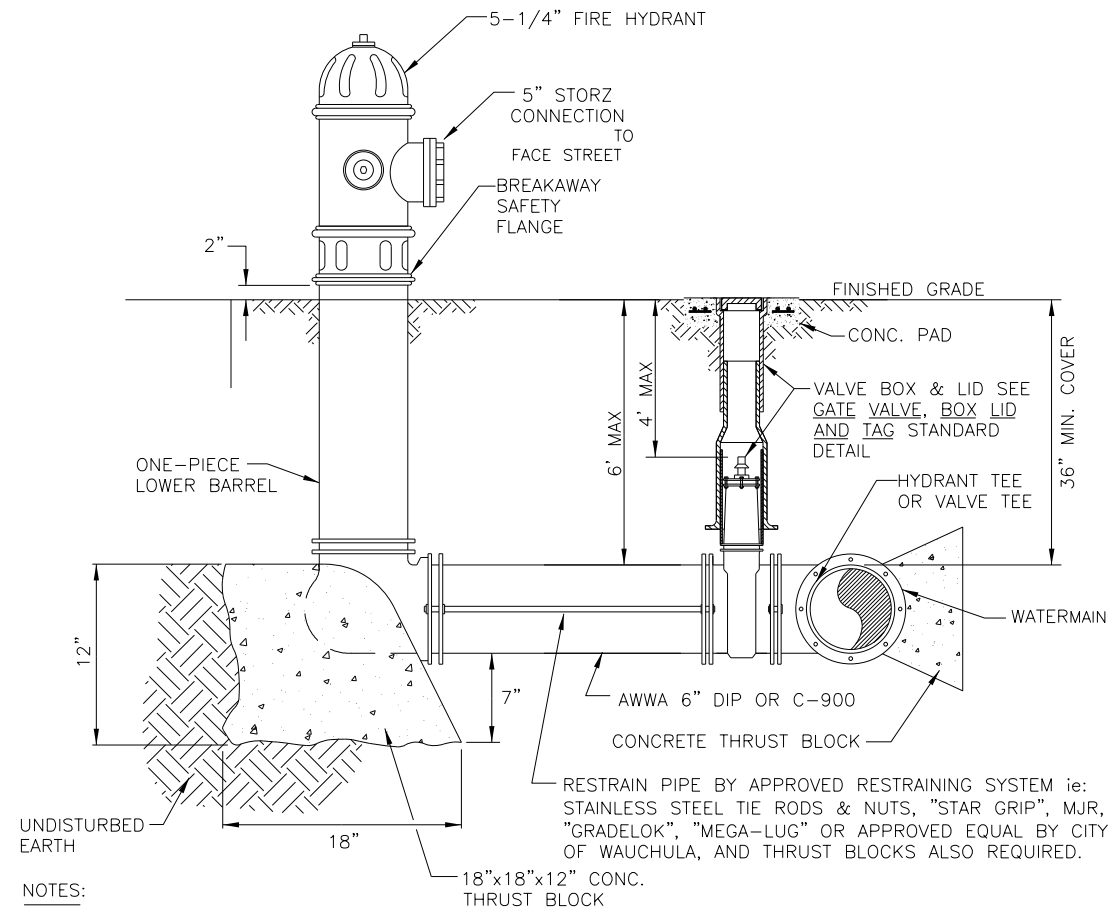
1. USE OF TYPE A-2 AND A-3 PIPE BEDDING TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
2. PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST BE COMPACTED OUT TO THE TRENCH WALL OR 2.5 TIMES THE PIPE OD, WHICHEVER IS LESS.
3. TYPICALLY 4" TO 6".
4. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
5. SHEETING ORDERED LEFT IN PLACE TO BE CUT OFF 24" BELOW FINISHED GRADE OR 12" BELOW SUBGRADE.
6. BASE SHALL BE 8" MINIMUM THICKNESS CRUSHED CONCRETE.
7. TEMPORARY PATCHES WILL BE INSTALLED TO PROVIDE A SMOOTH ALL WEATHER SURFACE AT ALL TIMES. PERMANENT REPLACEMENT TO BE MADE AS SOON AS POSSIBLE.
8. RESTORE SIGNAGE & MARKING WITH THERMOPLASTIC PER FDOT STANDARDS, LATEST EDITION.
9. TRACER WIRE NOT REQUIRED IF NOT PRESENT ON CONNECTING PIPES.



TRENCH WITH ASPHALT PAVEMENT  
SURFACE PIPE BEDDING

N.T.S.

2  
011



**NOTES:**

1. WEEPHOLES SHALL BE EXCLUDED FROM THE FIRE HYDRANT.
2. FIRE HYDRANTS SHALL BE A MINIMUM OF 6' OFF EDGE OF PAVEMENT AND 10' MAX. FROM BACK OF CURB. WHERE POSSIBLE AND WHERE SIDEWALK IS TO BE INSTALLED, FIRE HYDRANT SHALL BE LOCATED BETWEEN SIDEWALK AND RIGHT-OF-WAY LINE.
3. HYDRANTS SHALL BE FUSION BONDED EPOXY COATED SAFETY YELLOW FOR WATER. HYDRANT SHALL BE DUCTILE IRON CONSTRUCTION.
4. FIRE HYDRANTS SHALL BE PLACED SO THAT STORM WATER FLOWS AWAY FROM THE HYDRANT.
5. FIRE HYDRANTS SHALL BE CONSTRUCTED WITH "GROUND LINE" SET TO FINISHED GRADES AS ESTABLISHED IN THE FIELD. NORMAL BURY IS 3 FEET OF COVER FOR ALL WATER LINES.
6. FIRE HYDRANTS MAY BE CONSTRUCTED WITH "GRADELOK" OFFSET FITTING.
7. RAISED REFLECTIVE PAVEMENT MARKER (BLUE) FOR POTABLE WATER SHALL BE INSTALLED AT CENTERLINE OF PAVEMENT ADJACENT TO EACH HYDRANT.
8. PRECAST CONCRETE THRUST BLOCKS & PADS SHALL NOT BE USED.
9. ALL EXPOSED EDGES OF CONCRETE SHALL HAVE 1/2" CHAMFER.
10. FIRE HYDRANT VALVE SHALL BE FASTENED DIRECTLY TO TEE.
11. IN-LINE VALVES SHOULD BE LOCATED AT HYDRANT TEES.
12. HYDRANTS SHALL BE LOCATED ON SAME SIDE OF ROAD AS WATER MAIN UNLESS OTHERWISE APPROVED.
13. THERE MUST BE A CLEARANCE OF 7 1/2 FEET FROM FRONT AND BOTH SIDES, AND FOUR FEET TO THE REAR OF THE HYDRANT, TO ABOVE GRADE OBSTRUCTIONS INCLUDING POSTS, FENCES, TREES, ETC, PER THE FLORIDA FIRE PREVENTION CODE.
14. SEE STANDARD DETAIL GATE VALVE, BOX, LID AND TAG.

FIRE HYDRANT ASSEMBLY

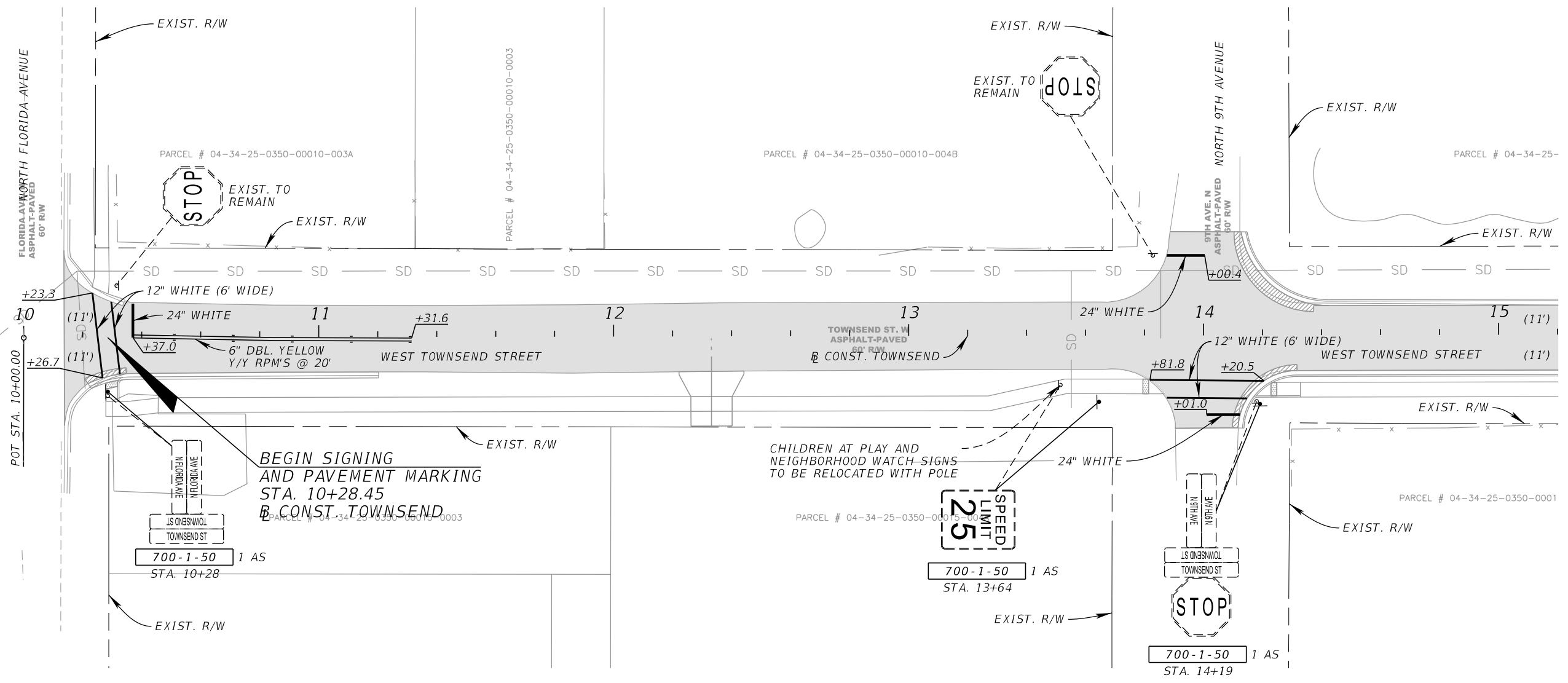
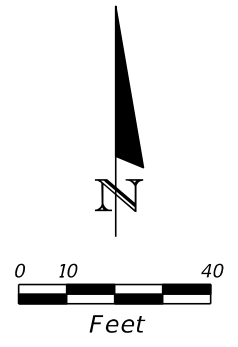
N.T.S.

3  
C010

REVISIONS				KIMLEY-HORN AND ASSOCIATES, INC. ROBERT CONERLY, P.E. P.E. LICENSE NUMBER 59291 200 SOUTH TRYON STREET, SUITE 200 CHARLOTTE, NC 28202 PHONE (704) 333-5131 CERTIFICATE OF AUTHORIZATION NO. 696	TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS		UTILITY ADJUSTMENT DETAILS (2)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		CITY OF	COUNTY		64
					WAUCHULA	HARDEE		

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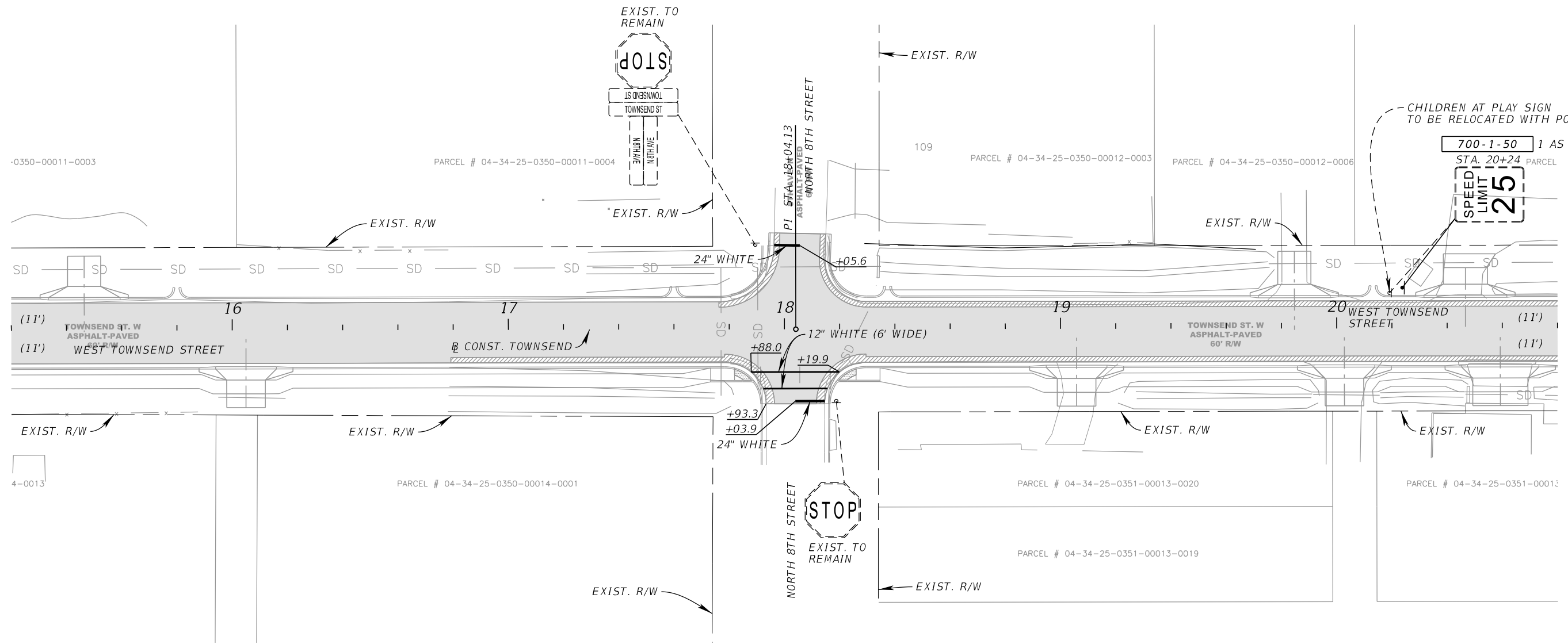
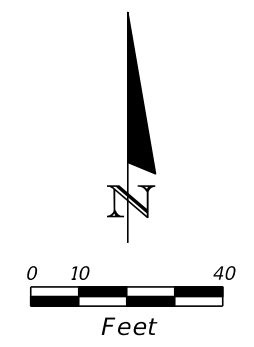
**BEGIN SIGNING  
AND PAVEMENT MARKING  
STA. 10+28.45  
B CONST. TOWNSEND**

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

**LEGEND**  
 1" MILLING & RESURFACING

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. ___	TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS		<b>SIGNING AND PAVEMENT MARKING PLAN SHEET (1)</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		CITY OF	COUNTY		65
					WAUCHULA	HARDEE		

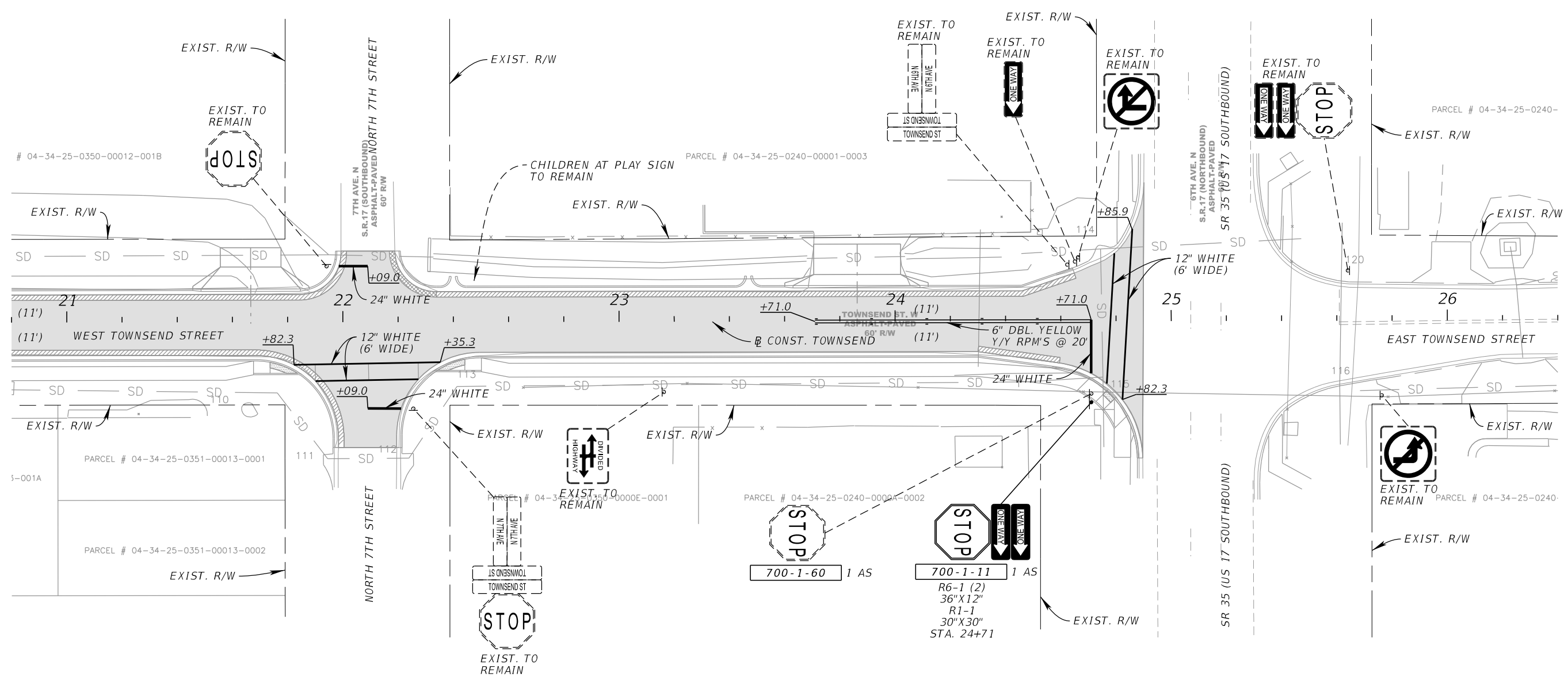
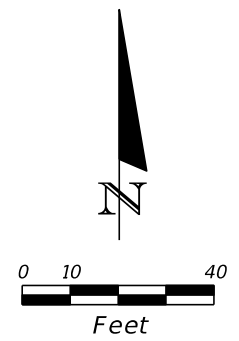
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



**LEGEND**  
 [Shaded Box] 1" MILLING & RESURFACING

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. ---	TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS		<i>SIGNING AND PAVEMENT          MARKING PLAN SHEET (2)</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		CITY OF	COUNTY		66
					WAUCHULA	HARDEE		

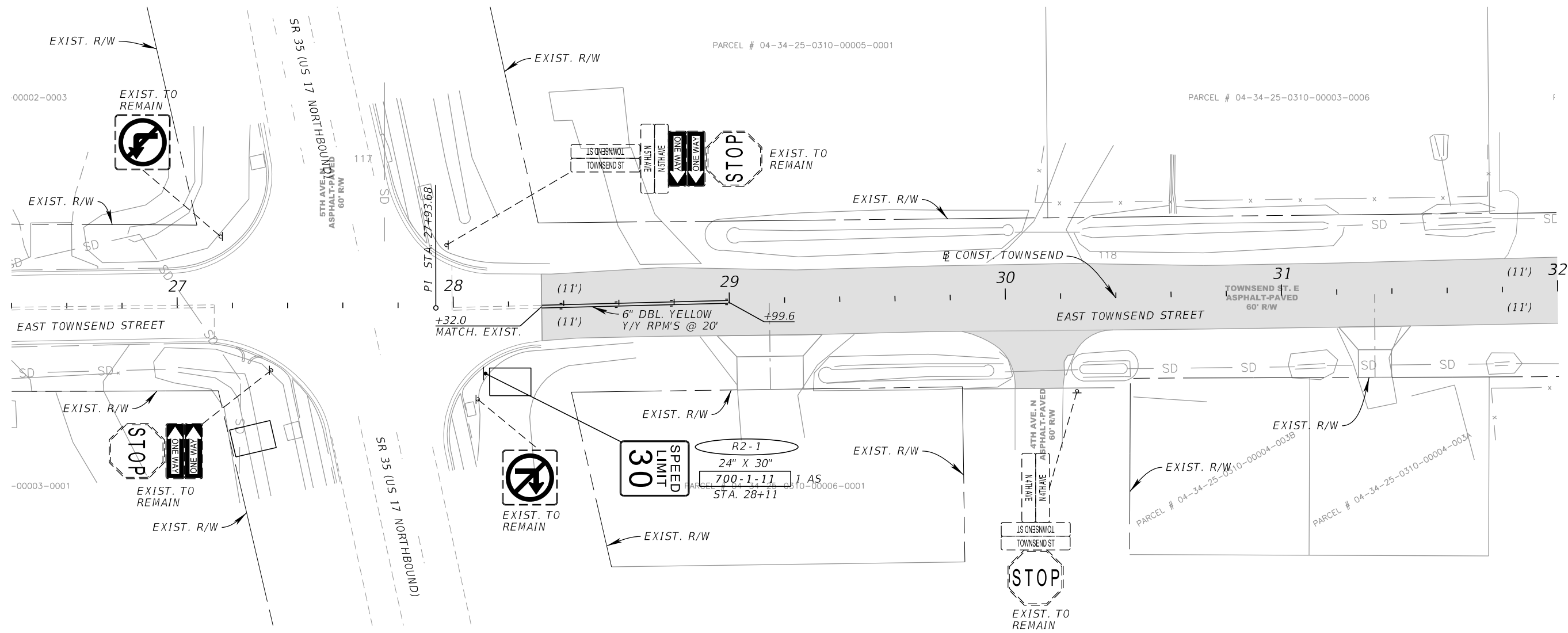
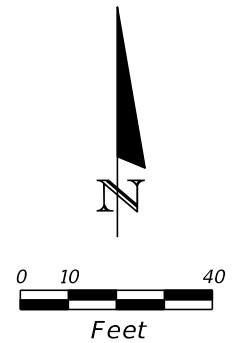
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



**LEGEND**  
 [Shaded Box] 1" MILLING & RESURFACING

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. ---	TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS		<i>SIGNING AND PAVEMENT          MARKING PLAN SHEET (3)</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		CITY OF	COUNTY		67
					WAUCHULA	HARDEE		

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



**LEGEND**

1" MILLING & RESURFACING

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

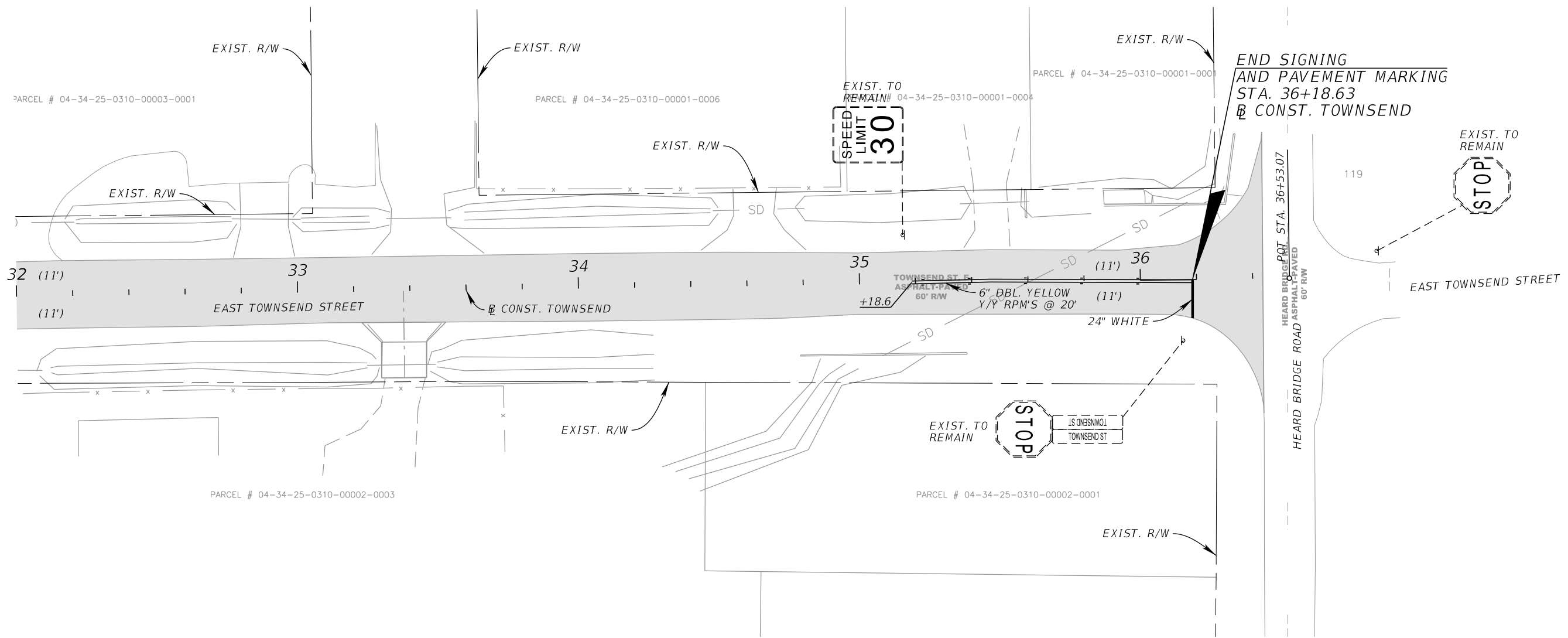
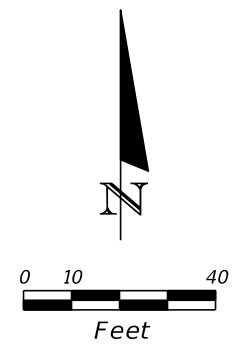
KIMLEY-HORN AND ASSOCIATES, INC.  
 JOHN SEALS, P.E.  
 P.E. LICENSE NUMBER 51505  
 655 N FRANKLIN ST., SUITE 150  
 TAMPA, FL 33602  
 PHONE (813) 620-1460  
 CERTIFICATE OF AUTHORIZATION NO. \_\_\_

<b>TOWNSEND STREET ROADWAY AND STORMWATER IMPROVEMENTS</b>	
CITY OF	COUNTY
WAUCHULA	HARDEE

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

SHEET  
NO.  
**68**

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



**LEGEND**  
 [Shaded Area] 1" MILLING & RESURFACING

REVISIONS		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		<i>SIGNING AND PAVEMENT MARKING PLAN SHEET (5)</i>	SHEET NO. 69
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.