CONTRACT PLANS COMPONENTS

ROADWAY PLANS

OLD GERMANTOWN ROAD
FROM PARK ACCESS ROAD
TO SOUTH CONGRESS AVENUE

CITY OF DELRAY BEACH PROJECT NO. 20-016
LAP PROJECT FDOT FINANCIAL PROJECT ID 444377-1-58-01
(FEDERAL FUNDS)

SHELLY PETROLIA
MAYOR

RYAN BOYLSTON
VICE-MAYOR

ROB LONG
DEPUTY VICE-MAYOR

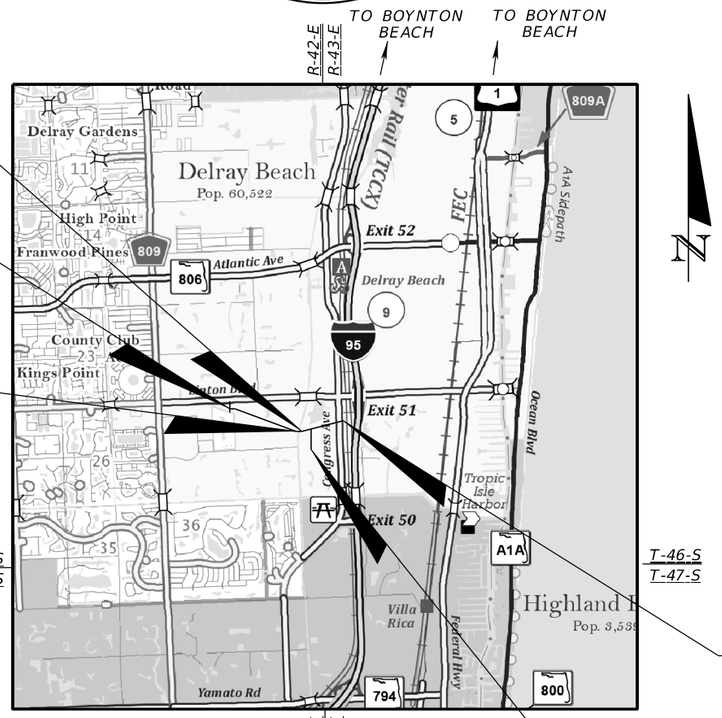
ADAM FRANKEL
COMMISIONER

TERRENCE MOORE
CITY MANAGER

ANGELA BURNS
COMMISIONER

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END BRIDGE
934482
℄ SURVEY OLD GERMANTOWN ROAD
STA 63+39.08

BEGIN PROJECT
℄ SURVEY OLD GERMANTOWN ROAD
STA 10+21.16

BEGIN BRIDGE
934482
℄ SURVEY OLD GERMANTOWN ROAD
STA 61+86.27

T-46-S
T-47-S

T-46-S
T-47-S

END PROJECT
℄ SURVEY OLD GERMANTOWN ROAD
STA 86+16.20

BEGIN CONST
℄ SURVEY SW 22ND AVE
STA 85+77.54

GOVERNING STANDARD PLANS:

City of Delray Beach Minimum construction standards and specifications dated December 2021 are available at the following link:
https://www.delraybeachfl.gov/home/showdocument?id=10777&t=637793054123818650

Florida Department of Transportation, FY 2023-24 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

Manual on Uniform Minimum Standards for Design, Construction and Maintenance for Streets and Highways ("Florida Greenbook") dated 2018

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, FY 2023-24 Standard Specifications for Road and Bridge Construction at the following website:
http://www.fdot.gov/programmanagement/Implemented/SpecBooks

PLANS APPROVED BY:

PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, UITE B-7
WEST PALM BEACH, FL 33411
MAJHARUL ALAM, P.E. NO. 61600
VENDOR NO.: F463316950
CERTIFICATE OF AUTHORIZATION NO.: 31050

ROADWAYS PLANS
ENGINEER OF RECORD: MAJHARUL ALAM, P.E.
P.E. NO.: NO. 61600

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PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
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FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:

MAJHARUL ALAM, PE
P.E.# 61600

No.	Revisions	By	Date

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PUBLIC WORKS DEPARTMENT
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Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

OLD GERMANTOWN ROAD
KEY SHEET

SHEET: 1
OF: 177
PROJECT NO. 444377-1

$FILE$ $USER$ $DATE$ $TIME$

MAJHARUL ALAM
LICENSE
No 61600
STATE OF FLORIDA
PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

Majharul Alam
2024.05.21 11:46:12 -04'00'

ON THE DATE ADJACENT TO THE SEAL

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

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

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151 - 153	WATER MAIN DEFLECTION
SQ-1 - SQ-19	SUMMARY OF QUANTITIES
S-1 - S-23	SIGNING AND PAVEMENT MARKING PLAN

CASTO MIGUEL JUNCAL
LICENSE
No 6667184
STATE OF FLORIDA
LANDSCAPE ARCHITECT

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

Casto Miguel Juncal
Digitally signed by Casto Miguel Juncal
Date: 2024.05.21 11:27:02 -04'00'

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177	LANDSCAPE DETAILS
SQ-20	SUMMARY OF LANDSCAPE ITEMS

HARMON BENNETT
LICENSE
No 53130
STATE OF FLORIDA
PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

Harmon C Bennett
2024.05.20 09:25:58 -04'00'

ON THE DATE ADJACENT TO THE SEAL

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GR-2 - GR-8	ROADWAY SOIL PROFILES

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P.E# 61600

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OLD GERMANTOWN ROAD
SIGNATURE SHEET

SHEET:
OF:
PROJECT NO.
444377-1

PROJECT SUMMARY OF PAY ITEMS

ROADWAY ITEMS

PAY ITEM	DESCRIPTION	UNIT	QUANTITY TOTAL
0101 1	MOBILIZATION	LS	1
0102 1	MAINTENANCE OF TRAFFIC	LS/DA	400
0104 10 3	SEDIMENT BARRIER	LF	15848
0104 18	INLET PROTECTION SYSTEM	EA	29
0107 1	LITTER REMOVAL	AC	152.80
0107 2	MOWING	AC	152.80
0108 1	MONITOR EXISTING STRUCTURES- INSPECTION AND SETTLEMENT MONITORING	LS	1
0108 2	MONITOR EXISTING STRUCTURES- VIBRATION MONITORING	LS	1
0110 1 1	CLEARING & GRUBBING	LS/AC	8.77
0110 4 10	REMOVAL OF EXISTING CONCRETE	SY	3507
0110 7 1	MAIL BOX F&I SINGLE	EA	2
0120 1	REGULAR EXCAVATION	CY	6909.2
0120 6	EMBANKMENT	CY	987.4
0160 4 A	TYPE B STABILIZATION (12")	SY	6370
0160 4 B	TYPE B STABILIZATION (6")	SY	103
0285 7 06	OPTIONAL BASE, BASE GROUP 06	SY	284
0327 70 4	MILLING EXISTING ASPHALT PAVEMENT, 3" AVG DEPTH	SY	21651
0334 1 53	SUPERPAVE ASPHALTIC CONC, TRAFFIC C, PG76-22	TN	3595.3
0425 1 521	INLETS, DT BOT, TYPE C, <10'	EA	23
0425 1 561	INLETS, DT BOT, TYPE F, <10'	EA	1
0425 2 43	MANHOLES, P-7, PARTIAL	EA	6
0425 5 1	MANHOLES, ADJUST, UTILITIES	EA	10
0425 6	VALVE BOXES, ADJUST	EA	31
0425 6 1	METER BOXES, ADJUST	EA	1
0430 175 115	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 15" S/CD	LF	12
0430 175 118	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18" S/CD	LF	161
0443 70 3	FRENCH DRAIN, 18"	LF	450
0520 1 10	CONCRETE CURB & GUTTER, TYPE F	LF	207
0520 2 4	CONCRETE CURB, TYPE D	LF	2291
0522 1	CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK	SY	955
0522 2	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	SY	17604
0527 2	DETECTABLE WARNINGS	SF	1310
0570 1 2	PERFORMANCE TURF, SOD	SY	26572
1644116 08	FIRE HYDRANT, STANDARD, F&I, 3 WAY, 2 HOSE, 1 PUMBER, 6"	EA	3
1644900	FIRE HYDRANT, REMOVE	EA	3
RD-5	FENCE	LF	1051
UT-2	16" WATER MAIN (DUCTILE IRON PIPE)	LF	203
UT-3	8" WATER MAIN (DUCTILE IRON PIPE)	LF	3
UT-4	6" (DUCTILE IRON PIPE)	LF	5
UT-5	16", 45-DEGREE HORIZONTAL BEND	EA	12
UT-6	16" X 8", TEE FITTING	EA	1

PROJECT SUMMARY OF PAY ITEMS

SIGNING AND PAVEMENT MARKINGS

PAY ITEM	DESCRIPTION	UNIT	QUANTITY TOTAL
0654-2-22	MIDBLOCK CROSSWALK: RECTANGULAR RAPID FLASHING BEACON, FURNISH & INSTALL - SOLAR COMPLETE SIGN ASSEMBLY - BACK TO BACK	AS	2
0700-1-11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	34
0700-1-12	SINGLE POST SIGN, F&I GROUND MOUNT, 12-20 SF	AS	7
0700-1-50	SINGLE POST SIGN, RELOCATE	AS	2
0700-1-60	SINGLE POST SIGN, REMOVE	AS	31
0700-2-12	MIULTI-POST SIGN, F&I GROUND MOUNT, 12-20 SF	AS	1
0700-2-60	MULTI-POST SIGN, REMOVE	AS	1
0705-10-1	OBJECT MARKER, TYPE 1	EA	1
0700-142-171	ENHANCED HIGHWAY SIGN ASSEMBLY, SOLAR POWERED, F&I GROUND MOUNT, W/EDS AND BEACON, UP TO 12 SF OF STATIC SIGN PANELS	AS	2
0706-1-3	RAISED PAVEMENT MARKER, TYPE B	EA	769
*	RETRO-REFLECTIVE PAVEMENT MARKERS BI-DIRECTIONAL WHITE RED	EA	16
*	RETRO-REFLECTIVE PAVEMENT MARKERS BI-DIRECTIONAL YELLOW	EA	748
*	RETRO-REFLECTIVE PAVEMENT MARKERS BI-DIRECTIONAL BLUE	EA	7
0710-90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	LS	1
*	PAINTED PM, STD, WHITE, SOLID, 6"	GM	2.544
*	PAINTED PM, STD, YELLOW, SOLID, 6"	GM	2.769
*	PAINT, STD., WHITE, SOLID, CROSSWALK/RA, 12"	LF	2329
*	PAINT, STD., YELLOW, SOLID, DIAG/CHEVRONS, 18"	LF	432
*	PAINT, WHITE, SOLID, STOP LINES/CROSSWALK, 24"	LF	271
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 6-10 DOTTED EXTENSION, 6"	GM	0.097
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	EA	6
0711 11123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF	2329
0711 11224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRONS	LF	432
0711 11125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF	271
0711 11141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 GAP EXTENSION, 6"	GM	0.097
0711 1170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA	6
0711 14125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF	181
0711 14160	THERMOPLASTIC, PREFORMED, WHITE, MESSAGE	EA	7
0711 14170	THERMOPLASTIC, PREFORMED, WHITE, ARROW	EA	6
0711 16101	THERMOPLASTIC, STANDARD, OTHER SURFACES, WHITE, SOLID, 6"	GM	2.544
0711 16201	THERMOPLASTIC, STANDARD, OTHER SURFACES, YELLOW, SOLID, 6"	GM	2.769

PROJECT SUMMARY OF PAY ITEMS

LANDSCAPE ITEMS

PAY ITEM	DESCRIPTION	UNIT	QUANTITY TOTAL
110 22	TREE ROOT AND BRANCH PRUNING	EA	59
110 23	TREE REMOVAL	EA	10
580-1-1	LANDSCAPE COMPLETE- SMALL PLANTS	LS/EA	776
580-1-2	LANDSCAPE COMPLETE - LARGE	LS/EA	78
581 1 4	RELOCATE TREES AND PALMS,PALMS, < 5" DBH	EA	1
581 1 5	RELOCATE TREES AND PALMS,PALMS, >= 5" DBH	EA	2
581 1 7	RELOCATE TREES AND PALMS,PALMS, <14' OF CLEAR TRUNK, SABAL PALM ONLY	EA	11
581 1 8	RELOCATE TREES AND PALMS, >=14' OF CLEAR TRUNK, SABAL PALM ONLY	EA	3

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PROPEL

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Seal:

MAJHARUL ALAM, PE
P.E# 61600

No.	Revisions	By	Date

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OLD GERMANTOWN ROAD

SUMMARY OF PAY ITEMS

SHEET: 3
OF: 177
PROJECT NO. 444377-1

PAY ITEM FOOTNOTES

102-1

INCLUDES ALL ITEMS AND COSTS NECESSARY TO MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND PROVIDE ALL TRAFFIC CONTROL NEEDS THROUGHOUT ALL PHASES OF THE PROJECT AND CONFORM TO THE LATEST FDOT SPECIFICATIONS. FDOT ROADWAY AND TRAFFIC DESIGN STANDARD PLANS INDICES DRAWINGS, AND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. THERE ARE NO OTHER SEPARATE PAY ITEMS FOR TRAFFIC CONTROL. THIS PAY ITEM SHALL ALSO INCLUDE ALL COSTS FOR TEMPORARY SIGNING AND PAVEMENT MARKINGS (THERMOPLASTIC AND PAINT), WORK ZONE SIGNS, BUSINESS SIGNS, REFLECTIVE PAVEMENT MARKERS, TEMPORARY LANE SEPARATORS, TEMPORARY TRAFFIC DETECTION AND MAINTENANCE, BARRICADES, ARROW BOARDS, PORTABLE CHANGEABLE MESSAGE SIGNS, CONES, CROSSING GUARDS, OFF-DUTY POLICEMEN, FLAGMEN, FLAGS, TEMPORARY ASPHALT PAVEMENT, TEMPORARY BASE, TEMPORARY DRAINAGE SYSTEM, TEMPORARY SHORING, CLEANING AND MAINTENANCE OF EXISTING DRAINAGE SYSTEM, TEMPORARY BARRIERS, BARRIER WALLS, TEMPORARY BARRIER WALLS (INCLUDING RELOCATION), GUARDRAIL, RELOCATION OF GUARDRAIL, TEMPORARY CRASH CUSHIONS, MAINTENANCE OF TEMPORARY CRASH CUSHIONS, TEMPORARY SIDEWALKS, DETOURS, ADJACENT PROPERTY ACCESS, DRIVEWAY CONNECTIONS AND MAINTENANCE OF EXISTING AND TEMPORARY PAVEMENTS, BICYCLE PATHS, SIDEWALKS, MAINTENANCE OF SAFE ROUTES TO SCHOOLS, SCHOOL CROSSINGS, PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICES, COMMERCIAL MATERIAL FOR DRIVEWAYS, ADJACENT PROPERTY ACCESS AND OBLITERATION OF PAVEMENT MARKINGS AS NEEDED.

110-1-1

PRESSURE WASHING EXISTING SIDEWALKS, REMOVAL OF ALL INVASIVE TREES WITHIN THE LIMITS OF CLEARING AND GRUBBING, REMOVAL OF THE EXISTING FENCE, REMOVAL OF BRICK PAVERS, AND BOLLARDS ARE INCLUDED IN THE COST FOR CLEARING AND GRUBBING.

110-22

COST INCLUDES ARBORIST WORK.

110-7-1

RELOCATE EXISTING MAILBOXES IN CONFLICT WITH THE PROPOSED SIDEWALK/SHARED USE PATH PER DELRAY BEACH DETAIL D15.0.

120-1

EARTHWORK HAS BEEN CALCULATED USING THE LIMEROCK BASE OPTION. IF ANOTHER OPTION IS CONSTRUCTED, THERE SHALL BE NO REVISION TO THE EARTHWORK QUANTITIES FOR WHICH PAYMENT IS MADE BY PLAN QUANTITY.

425-1-521 AND 425-1-561

COST OF SKIMMERS INCLUDED IN THE PRICE OF STRUCTURE.

425-1-521 AND 425-1-561

DRAINAGE CONSTRUCTION NEAR THE RIGHT OF WAY LINE OR OTHER OBSTRUCTIONS MAY REQUIRE SHEETING OR OTHER MEANS TO AVOID ENCROACHMENT ON PRIVATE PROPERTY AND TO PROTECT TREES, TREE ROOTS, HEDGES, LIGHTS, PRIVACY WALLS, IRRIGATION, SHEDS, ETC. ALL COSTS ASSOCIATED WITH AVOIDANCE OF ENCROACHMENT ARE TO BE INCLUDED IN THE COST OF THE DRAINAGE ITEM.

520-1

COST OF ASPHALT CURB PAD AND ADDITIONAL CURB THICKNESS IS INCLUDED IN THE COST OF CURB AND GUTTER.

0522 2

COST INCLUDES 9" THICKENED EDGE REQUIREMENT AT CONCRETE DRIVEWAYS AND CURB RAMPS PER DELRAY BEACH STANDARD DETAIL RT 23.0, AND THE 9" THICKENED EDGE REQUIREMENT AT LOCATIONS WITH PEDESTRIAN/BICYCLE RAILING PER FDOT INDEX 515-062.

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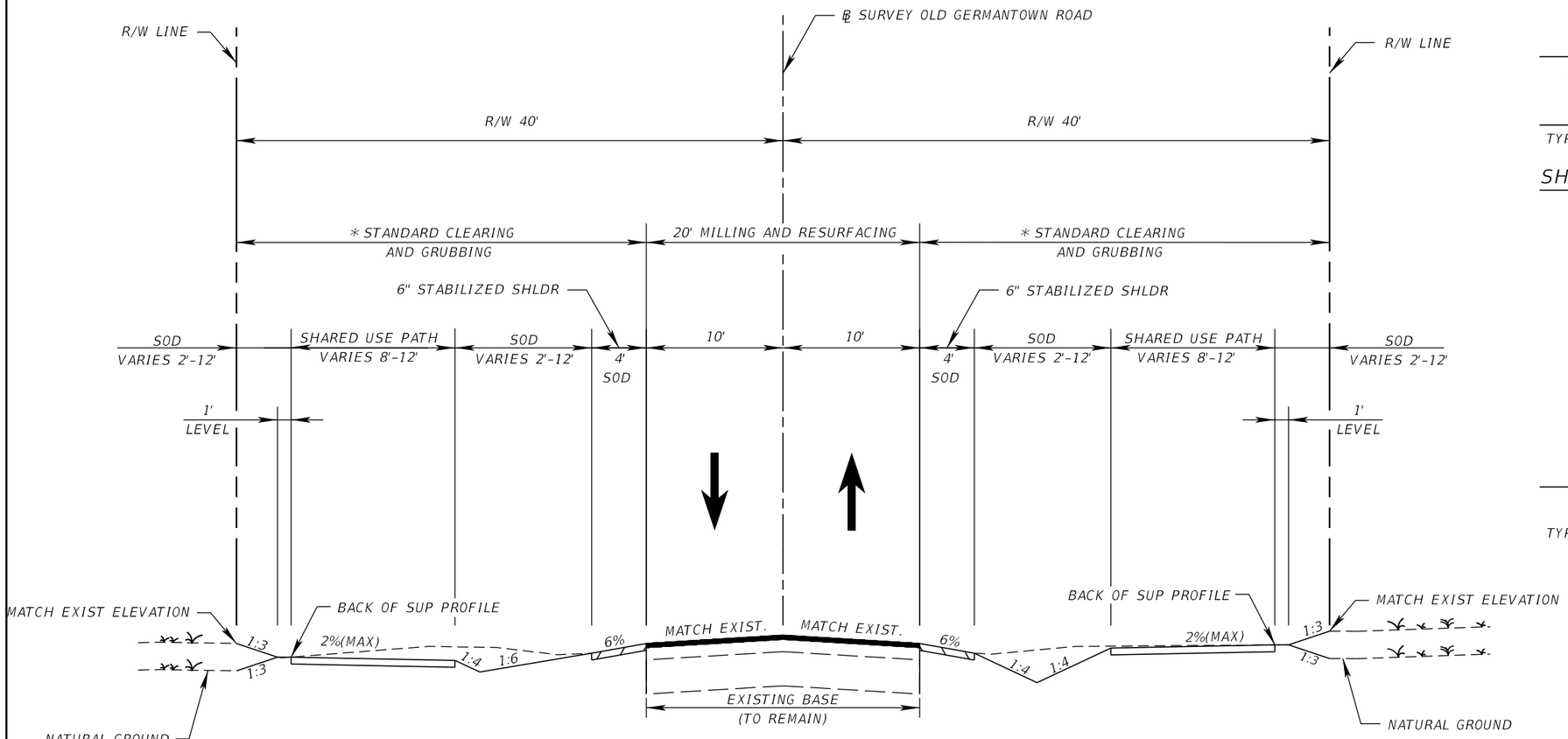
PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
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Seal:
MAJHARUL ALAM, PE
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OLD GERMANTOWN ROAD
SUMMARY OF PAY ITEMS



TYPICAL SECTION
NTS

OLD GERMANTOWN ROAD
℄ SURVEY OLD GERMANTOWN ROAD STA. 10+21.16 TO STA. 61+86.27
℄ SURVEY OLD GERMANTOWN ROAD STA. 63+39.08 TO STA. 86+16.20

MILLING

MILL EXISTING ASPHALT PAVEMENT FOR DEPTH (3")

RESURFACING

TYPE SP STRUCTURAL COURSE (3") (TRAFFIC C) (PG 76-22)

SHARED USED PATH (SUP) CONSTRUCTION

6" CONCRETE

STA. 18+80.22 TO STA. 19+02.01
STA. 19+48.92 TO STA. 19+69.10
STA. 36+48.26 TO STA. 36+66.21
STA. 36+87.26 TO STA. 37+11.42
STA. 50+95.24 TO STA. 51+17.84
STA. 59+33.82 TO STA. 60+12.71
STA. 63+38.93 TO STA. 63+54.69
STA. 71+83.97 TO STA. 72+04.07

WIDENING

12" TYPE B STABILIZATION (LBR 40)
OPTIONAL BASE GROUP 6
TYPE SP STRUCTURAL COURSE (3") (TRAFFIC C) (PG 76-22)

POSTED SPEED = 35 MPH
DESIGN SPEED = 35 MPH

*SEE LANDSCAPE TREE DISPOSITION CHART AND TREE DISTRIBUTION PLANS FOR TREES TO REMAIN WITHIN CLEARING AND GRUBBING LIMITS.

NOTE: MILLING OPERATIONS MAY REMOVE A PORTION OF EXISTING LIMEROCK BASE. EXPOSED BASE SHALL BE CLEANED AND PRIME COATED IMMEDIATELY AFTER ACHIEVING DESIRED MILLING DEPTH.

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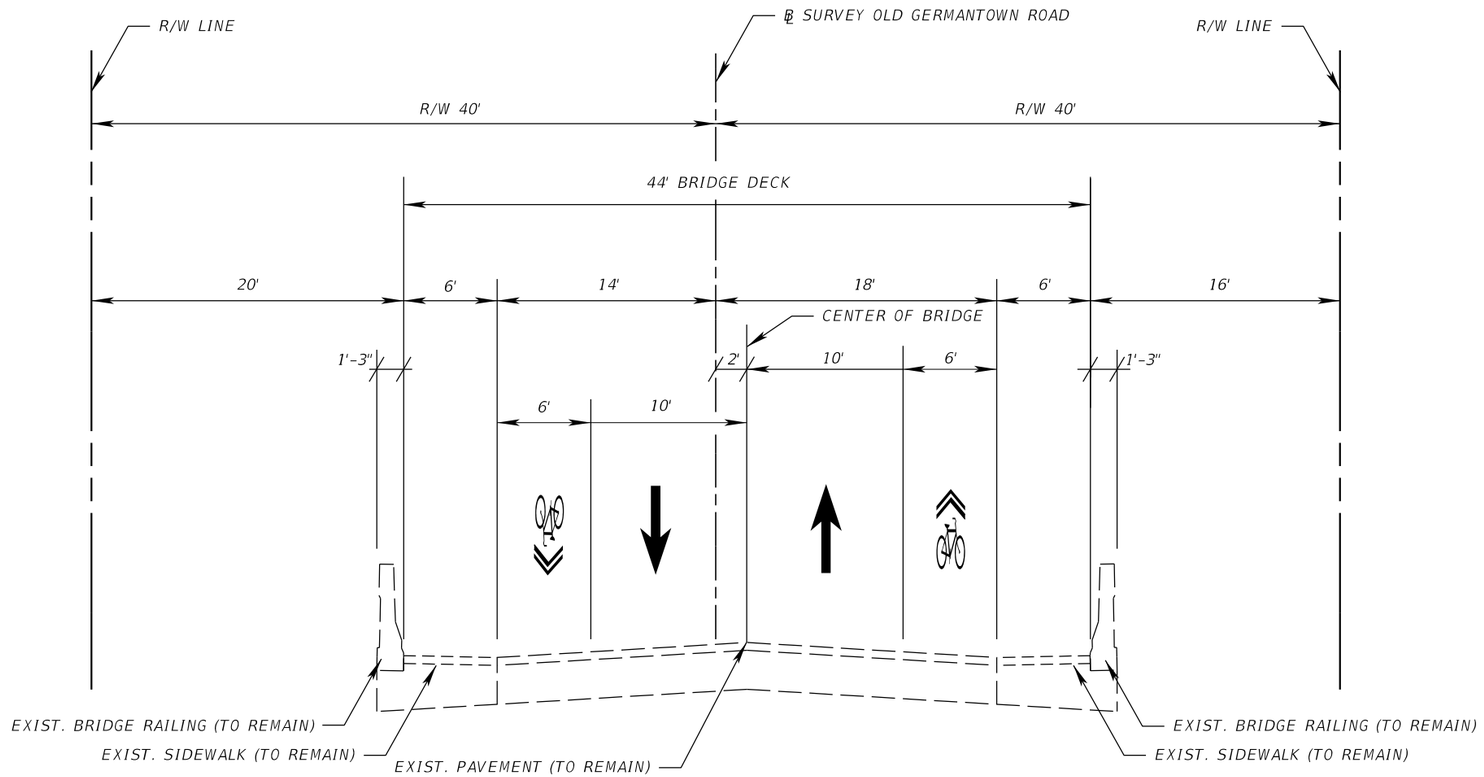
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OLD GERMANTOWN ROAD
TYPICAL SECTIONS

SHEET: 5
OF: 177
PROJECT NO. 444377-1



TYPICAL SECTION
NTS

OLD GERMANTOWN ROAD
(BRIDGE #934482 OVER LWDD CANAL E-4)
℄ CONST STA. 61+86.27 TO STA. 63+39.08

POSTED SPEED = 35 MPH
DESIGN SPEED = 35 MPH

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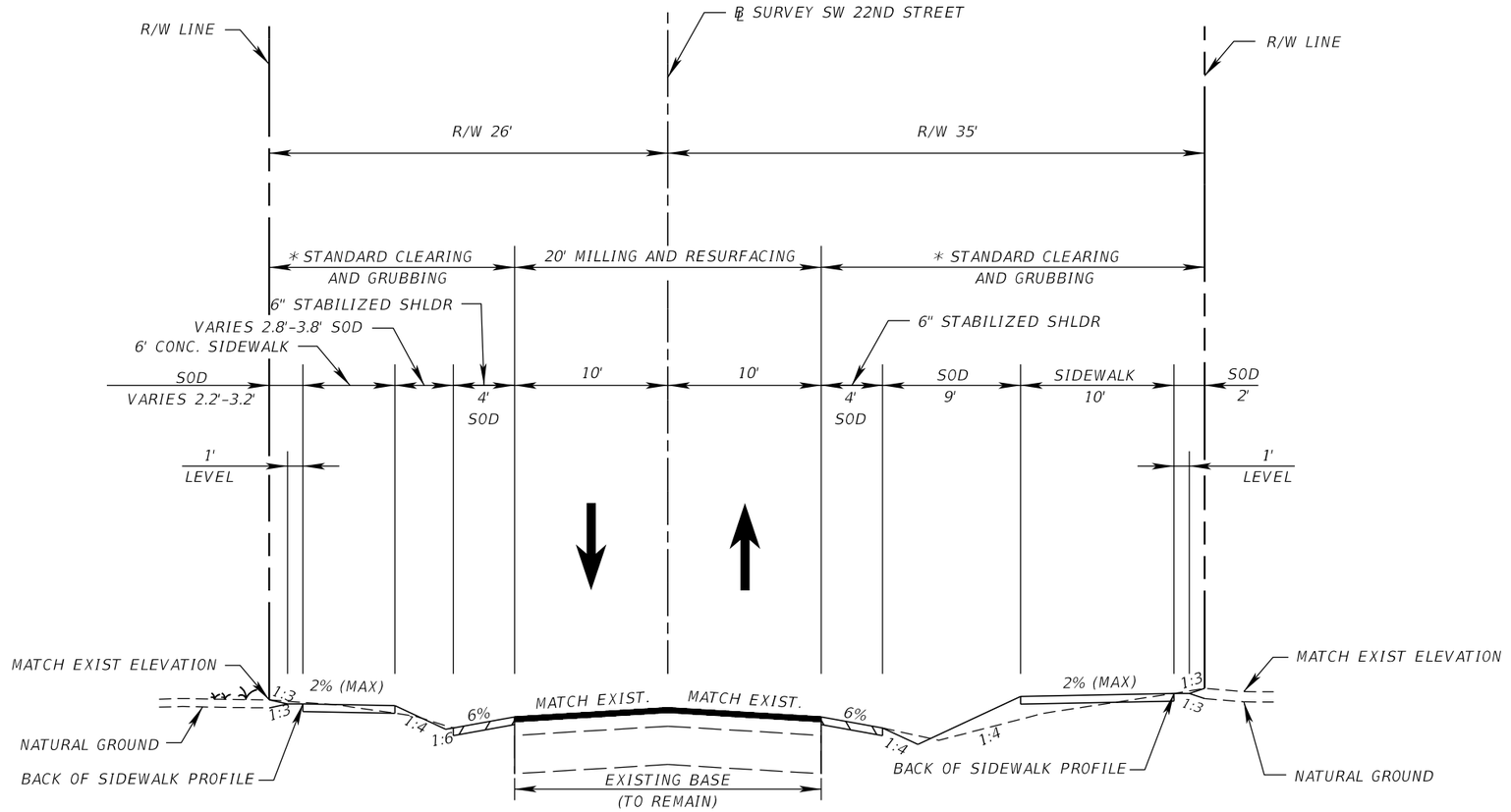
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OLD GERMANTOWN ROAD
TYPICAL SECTIONS

SHEET: 6
OF: 177
PROJECT NO. 444377-1



TYPICAL SECTION
NTS

SW 22ND AVE

℄ SURVEY SW 22ND AVE STA. 85+77.54 TO STA. 99+63.75

POSTED SPEED = 35 MPH
DESIGN SPEED = 35 MPH

MILLING

MILL EXISTING ASPHALT PAVEMENT FOR DEPTH (3")

RESURFACING

TYPE SP STRUCTURAL COURSE (3") (TRAFFIC C) (PG 76-22)

STA. 89+33.62 TO STA. 89+54.84
STA. 89+87.25 TO STA. 90+08.31

WIDENING

12" TYPE B STABILIZATION (LBR 40)
OPTIONAL BASE GROUP 6
TYPE SP STRUCTURAL COURSE (3") (TRAFFIC C) (PG 76-22)

NOTE: MILLING OPERATIONS MAY REMOVE A PORTION OF EXISTING LIMEROCK BASE. EXPOSED BASE SHALL BE CLEANED AND PRIME COATED IMMEDIATELY AFTER ACHIEVING DESIRED MILLING DEPTH.

* SEE LANDSCAPE TREE DISPOSITION CHART AND TREE DISTRIBUTION PLANS FOR TREES TO REMAIN WITHIN CLEARING AND GRUBBING LIMITS.

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PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:
MAJHARUL ALAM, PE
P.E# 61600

No.	Revisions	By	Date

CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
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Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

OLD GERMANTOWN ROAD
TYPICAL SECTIONS

SHEET: 7
OF: 177
PROJECT NO. 444377-1

S:\2240010200-Germantown_Complete_St\44437715801\roadway\TYPSRD01.dgn
Zesheng Zhang 3/1/2024 1:43:54 PM

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM AND CROSS DRAIN OPTIONAL TYPE		MANHOLE	FRENCH DRAIN	DITCH BOTTOM INLETS	DITCH BOTTOM INLETS	REMARKS
						ROUND SHAPE		P-7	18"	C	F	
						15"	18"	PARTIAL		<10'	<10'	
						0430-175-115 (LF)	0430-175-118 (LF)	0425-2-43 (EA)	0443-70-3 (LF)	0425-1-521 (EA)	0425-1-561 (EA)	
P	S-1	13+17.50	RT	DBI, PIPE	1		7			1		
F												
P	S-2	13+17.50	RT	MANHOLE	1			1				REPLACE INLET GRATE WITH MANHOLE COVER (℄ SURVEY OLD GERMANTOWN ROAD)
F												
P	S-3	25+00.00	LT	DBI	1				20	1		
F												
P	S-4	27+20.00	LT	DBI	1				20	1		
F												
P	S-5	31+00.00	LT	DBI	1				20	1		
F												
P	S-6	32+20.00	RT	DBI	1				80	1		
F												
P	S-7	33+00.00	RT	DBI	1					1		
F												
P	S-8	34+00.00	LT	DBI	1				100	1		
F												
P	S-9	35+00.00	LT	DBI	1					1		
F												
P	S-10	50+80.00	LT	DBI	1				20	1		
F												
P	S-11	53+00.00	RT	DBI	1				20	1		
F												
P	S-12	58+43.67	RT	MANHOLE	1			1				REPLACE INLET GRATE WITH MANHOLE COVER (℄ SURVEY OLD GERMANTOWN ROAD)
F												
P	S-13	58+56.52	RT	DBI, PIPE	1	12					1	
F												
P	S-14	68+30.00	RT	DBI, PIPE	1		130		20	1		
F												
P	S-15	69+60.00	RT	DBI	1				20	1		
F												
P	S-16	74+94.28	RT	DBI	1				50	1		
F												
P	S-17	74+44.28	LT	MANHOLE	1			1				REPLACE INLET GRATE WITH MANHOLE COVER (℄ SURVEY OLD GERMANTOWN ROAD)
F												
P	S-18	74+44.28	LT	DBI, PIPE	1		4			1		
F												
P	S-19	74+44.28	RT	DBI, PIPE	1		4			1		
F												
P	S-20	74+44.28	RT	MANHOLE	1			1				REPLACE INLET GRATE WITH MANHOLE COVER (℄ SURVEY OLD GERMANTOWN ROAD)
F												
				PLAN QUANTITY		12	145	4	370	15	1	
				FINAL QUANTITY								
GRAND TOTALS				PLAN QUANTITY		12	161	6	450	23	1	
				FINAL QUANTITY								

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OLD GERMANTOWN ROAD
SUMMARY OF DRAINAGE STRUCTURES

SHEET: 8
OF: 177
PROJECT NO. 444377-1

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM AND CROSS DRAIN OPTIONAL TYPE		MANHOLE	FRENCH DRAIN	DITCH BOTTOM INLETS	DITCH BOTTOM INLETS	REMARKS
						ROUND SHAPE		P-7	18"	C	F	
						15"	18"	PARTIAL		<10'	<10'	
						0430-175-115 (LF)	0430-175-118 (LF)	0425-2-43 (EA)	0443-70-3 (LF)	0425-1-521 (EA)	0425-1-561 (EA)	
P	S-21	79+01.44	RT	MANHOLE	1			1				REPLACE INLET GRATE WITH MANHOLE COVER (℄ SURVEY OLD GERMANTOWN ROAD)
F												
P	S-22	79+01.86	RT	DBI, PIPE	1		4			1		
F												
P	S-23	79+03.40	LT	DBI, PIPE	1		4			1		
F												
P	S-24	79+03.81	LT	MANHOLE	1			1				REPLACE INLET GRATE WITH MANHOLE COVER (℄ SURVEY OLD GERMANTOWN ROAD)
F												
P	S-25	86+80.00	LT	DBI	1				20	1		
F												
P	S-26	87+00.00	RT	DBI	1				20	1		
F												
P	S-27	90+13.12	LT	DBI, PIPE	1		4			1		
F												
P	S-28	92+00.00	LT	DBI	1				20	1		
F												
P	S-29	94+32.25	LT	DBI, PIPE	1		4			1		
F												
P	S-30	99+35.73	LT	DBI	1				20	1		
F												
GRAND TOTALS				PLAN QUANTITY		0	16	2	80	8		
				FINAL QUANTITY								

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OLD GERMANTOWN ROAD
SUMMARY OF DRAINAGE STRUCTURES

SHEET: 9
OF: 177

PROJECT NO. 444377-1

DEFINITIONS

1. CITY - THE CITY OF DELRAY BEACH

2. CONTRACTOR - ROADWAY CONTRACTOR AND ALL SUBCONTRACTORS

3. ENGINEER - ENGINEER RESPONSIBLE FOR INSPECTION AND CERTIFICATION.

PROCEDURE

1. A PRE-CONSTRUCTION MEETING IS TO BE HELD PRIOR TO DELIVERY OF MATERIALS AND INITIATION OF ANY WATER, SEWER OR DRAINAGE CONSTRUCTION. THE MEETING SHALL BE ATTENDED BY THE CITY, CONTRACTOR, SUBCONTRACTORS, ENGINEER, FDOT LAP OFFICE, AND OTHER INTERESTED PARTIES.

2. ANY REVISIONS TO THE APPROVED PLANS MUST BE APPROVED BY THE CITY PRIOR TO THE PRE-CONSTRUCTION MEETING.

3. A MINIMUM OF THREE (3) COPIES OF THE CURRENT APPROVED PRODUCT LIST AND ALL NECESSARY SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO SCHEDULING THE PRE-CONSTRUCTION MEETING. ALL PIPE MANUFACTURERS SHALL SUBMIT THREE (3) COPIES OF AN AFFIDAVIT THAT THE PIPE AND COATINGS WERE MANUFACTURED IN ACCORDANCE WITH AWWA C151/A21.51-91.

4. ALL APPLICABLE PERMITS MUST BE OBTAINED WITH COPIES PROVIDED TO THE CITY PRIOR TO COMMENCEMENT OF CONSTRUCTION.

5. THE CONTRACTOR SHALL MAINTAIN A CURRENT APPROVED SET OF CONSTRUCTION DOCUMENTS ON SITE AT ALL TIMES.

6. ALL MATERIALS SUPPLIED SHALL CONFORM TO PRODUCT LIST AND SHOP DRAWINGS AS APPROVED BY THE CITY PRIOR TO CONSTRUCTION. ALL REQUESTS FOR MATERIAL SUBSTITUTION SHALL BE APPROVED PRIOR TO DELIVERY OF THESE MATERIALS TO THE JOB SITE.

7. THE LOCATION OF THE EXISTING UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. IN ADDITION, THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY IF OTHER UTILITIES (NOT SHOWN ON THE PLAN) EXIST WITHIN THE AREA OF CONSTRUCTION. CONTACT "SUNSHINE STATE ONE CALL OF FLORIDA, INC." (S.S.O.C.O.F.) 1-800-432-4770, NOT LESS THAN 3 FULL BUSINESS DAYS AND NO MORE THAN 5 BUSINESS DAYS PRIOR TO DIGGING. SHOULD THERE BE UTILITY CONFLICTS, THE CONTRACTOR SHALL INFORM THE CITY AND NOTIFY THE RESPECTIVE UTILITY OWNER TO RESOLVE THE UTILITY CONFLICTS AND THE UTILITY ADJUSTMENTS AS REQUIRED.

8. PRIOR TO ANY SANITARY PLOT OR WATER MAIN TESTING, UNDER EXISTING OR FUTURE PAVEMENT, THE ROCK BASE SHALL BE FINISHED AND PRIMED OR FIRST LIFT OF PAVEMENT PLACED.

9. THE CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES THROUGHOUT THE DURATION OF CONSTRUCTION FOR THE PROTECTION OF EXISTING AND NEWLY INSTALLED UTILITIES FROM DAMAGE OR DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING SUCH MEASURES AS NECESSARY TO PROTECT THE HEALTH, SAFETY, AND WELFARE OF THOSE PERSONS HAVING ACCESS TO THE WORK SITE.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING LOCATIONS OF ALL OTHER UTILITY FACILITIES.

11. THE CONTRACTOR SHALL SCHEDULE INSPECTIONS AND TESTS WITH THE CITY A MINIMUM OF 48 HOURS IN ADVANCE.

12. CONTRACTOR SHALL NOT DISTURB EXISTING CITY MAINS OR STRUCTURES WITHOUT THE PRESENCE OF A CITY INSPECTOR. CITY UTILITY SYSTEM VALVES AND APPURTENANCES MAY ONLY BE OPERATED BY CITY PERSONNEL.

13. FACILITIES PROPOSED HEREIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PLANS. DEVIATIONS FROM THE APPROVED PLANS MUST BE APPROVED IN ADVANCE BY THE CITY.

14. UPON COMPLETION OF CONSTRUCTION AND PRIOR TO FINAL ACCEPTANCE OF THE WORK, A FINAL INSPECTION SHALL VERIFY PROPER ADHERENCE TO ALL FACETS OF THE PLANS AND SPECIFICATIONS.

15. PAVING, DRAINAGE AND TRAFFIC CONSTRUCTION SHALL CONFORM TO FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND DESIGN STANDARDS, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND PALM BEACH COUNTY TYPICAL T-P21 (LATEST REVISION) UNLESS SHOWN OTHERWISE.

16. AS-BUILT DRAWINGS SHALL BE PREPARED BY A REGISTERED LAND SURVEYOR, REGISTERED IN THE STATE OF FLORIDA, AND SUBMITTED BY THE CONTRACTOR TO THE CITY. AS THE WORK PROGRESSES, THE ENGINEER OF RECORD (OR THEIR REPRESENTATIVE) SHALL RECORD ON ONE SET OF DRAWINGS THE LOCATION INCLUDING STATION AND OFFSET WITH SUFFICIENT DIMENSIONS AND DISTANCES TO ADEQUATELY DESCRIBE THE LOCATION OF THE IMPROVEMENT FROM THE BASELINE. ELEVATIONS ARE TO BE PROVIDED AT THE TOP OF PIPE AT INCREMENTS OF EVERY 100 FEET ON ALL WATER AND FORCE MAINS. STATIONING IS REQUIRED ON ALL VALVES, FITTINGS, WATER AND SEWER SERVICES AND FIRE HYDRANTS. THE LENGTHS OF ALL WATER SERVICE LINES AND SEWER LATERALS MUST BE NOTED ON GRAVITY SEWER LINES, ELEVATIONS AND STATIONING ARE TO BE INDICATED ON ALL MANHOLE RIMS AND INVERTS. THE DISTANCE BETWEEN MANHOLES IS TO BE SHOWN ON BOTH THE PLAN AND PROFILE SHEETS UNLESS PLAN VIEW AND PROFILE VIEW ARE ON THE SAME SHEET. THE ENGINEER OF RECORD IS TO SUBMIT TWO SETS OF BLUEPRINT RECORD OR AS-BUILT DRAWINGS AND ONE MYLAR TO THE ENGINEERING DEPARTMENT ALONG WITH THE HEALTH DEPARTMENT APPLICATION FOR RELEASE OF THE SYSTEM. ALL "AS-BUILT DRAWINGS" SHALL BE SIGNED SEALED AND DATED BY THE ENGINEER OF RECORD. CERTIFICATE OF OCCUPANCY WILL BE HELD UNTIL ACCEPTANCE BY HRS AND THE PUBLIC WORKS ENGINEERING DEPARTMENT. PAVING & DRAINAGE AS-BUILT DRAWINGS SHALL INCLUDE RIM ELEVATIONS, INVERT ELEVATIONS, PIPE SIZES, CONTROL STRUCTURE DIMENSIONS, AS WELL AS AS-BUILT ELEVATIONS AS EVERY LOCATION A PROPOSED ELEVATION IS INDICATED ON THE CONSTRUCTION PLAN. ADEQUATE AS-BUILT ELEVATIONS SHALL BE PROVIDED ON EMBANKMENTS TO DETERMINE COMPLIANCE WITH MAXIMUM SLOPE REQUIREMENTS.

17. PRIOR TO COMMENCEMENT OF ANY EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH FLORIDA STATUTE 553-851 FOR PROTECTION OF UNDERGROUND GAS PIPELINES.

18. CONTRACTOR SHALL NOTIFY SUNSHINE STATE ONE (1-800-432-4770) 48 HOURS IN ADVANCE OF CONSTRUCTION.

19. GRADES SHOWN ON PLANS ARE FINISHED GRADES. THE CONTRACTOR SHALL BE REQUIRED TO ADJUST EXISTING SANITARY SEWER MANHOLE TOPS AND VALVE BOX COVERS TO FINISHED GRADE.

20. CONTRACTOR SHALL MAINTAIN LOCAL TRAFFIC AT ALL TIMES DURING CONSTRUCTION AND SHALL BE REQUIRED TO PROVIDE ALL BARRICADES, LIGHTING, SIGNAGE AND FLAGMEN AS NECESSARY TO PROVIDE FOR THE SAFETY OF THE PUBLIC IN THE WORK AREA. THE CONTRACTOR SHALL SUBMIT A DETAILED TRAFFIC MAINTENANCE PLAN PRIOR TO CONSTRUCTION. HOMEOWNER NEED TO HAVE ACCESS TO THEIR DRIVEWAYS (24/7)

21. EXISTING BASE MATERIAL THAT IS REMOVED DURING CONSTRUCTION SHALL NOT BE USED IN THE CONSTRUCTION OF NEW LIME ROCK BASE.

22. ALL VEGETATION, DEBRIS, CONCRETE OR OTHER UNSUITABLE MATERIAL SHALL BE LEGALLY DISPOSED OF OFF-SITE IN AN AREA AT THE CONTRACTORS EXPENSE.

23. CONTRACTOR SHALL UTILIZE CONSTRUCTION METHODS AND DEVICES, SUCH AS TURBIDITY SCREENS, CURTAINS AND FLOATING SILT BARRIERS WHERE NECESSARY IN ORDER TO COMPLY WITH ALL STATE AND LOCAL WATER QUALITY STANDARDS.

24. PRIOR TO AND DURING CONSTRUCTION OF ALL SITES, THE PERMITEE SHALL IMPLEMENT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES INCLUDED IN A POLLUTION PREVENTION PLAN PROVIDED TO THE CITY OF DELRAY BEACH.

25. ALL REINFORCED CONCRETE STORM SEWER PIPE SHALL BE CLASS III, UNLESS OTHERWISE NOTED.

26. ALL PAVED SURFACES SHALL BE PROPERLY MARKED PRIOR TO HOURS OF DARKNESS. PERMANENT PAVEMENT MARKING STALLS SHALL BE LAID OUT USING MARKING CHALK. LAYOUT TO BE REVIEWED BY THE CITY PRIOR TO PLACEMENT OF FINAL MARKING.

27. EMBANKMENT (FILL) AND EXCESS MATERIAL REQUIRED FOR ROADWAY RECONSTRUCTION AND UTILITY INSTALLATIONS SHALL BE SUPPLIED AND/OR DISPOSED OF BY THE CONTRACTOR. ALL COSTS ASSOCIATED WITH EARTHWORK REQUIREMENTS TO COMPLETE THE ROADWAY RECONSTRUCTION AND UTILITY IMPROVEMENTS SHALL BE INCLUDED IN THE COSTS OF OTHER APPROPRIATE PAY ITEMS.

28. CONTINUITY OF WATER AND SEWER SERVICE TO CITY UTILITY CUSTOMERS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THIS PROJECT. IF A BREAK IN SERVICE IS UNAVOIDABLE TO ACCOMMODATE CONNECTION OF NEW FACILITIES, IT SHALL BE SCHEDULED FOR OFF PEAK HOURS WITH THE CITY. DETERMINATION OF SERVICE BREAK REQUIREMENT WILL BE MADE BY THE CITY.

29. SITE INFORMATION BASED ON A SURVEY PREPARED BY: ROBERT D. KEENER

A. CRAIG A. SMITH & ASSOCIATES
B. 21045 COMMERCIAL TRAIL, BOCA RATON, FLORIDA 33486
C. 561-314-4445
D. CERTIFICATE NO.LB0003110

30. CONTRACTOR SHALL CLEAN AND TELEVISE ALL STORM DRAINAGE SYSTEM IN PROJECT AREA.

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OLD GERMANTOWN ROAD
GENERAL NOTES

SHEET: 10
OF: 177
PROJECT NO. 444377-1

31. CONTRACTOR SHALL SUBMIT A HEALTH & SAFETY PLAN & EMERGENCY HURRICANE PLAN FOR APPROVAL BY CITY & EOR.

32. CONTRACTOR SHALL ESTABLISH A PUBLIC OUTREACH WEBSITE AND OFFICER TO UPDATE DATABASE WEEKLY.

33. ALL LUMBER SHALL BE ACQ TREATED TO 502.

34. ALL HARDWARE AND FASTENERS SHALL BE 316 STAINLESS STEEL.

35. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ADA CODES & REGULATIONS.

36. THE EXTENT OF ROAD CONSTRUCTION WORK TO BE COMPLETED BY THE CONTRACTOR, WITHIN THE RAILROAD RIGHT OF WAY SHALL BE DETERMINED BY THE CITY AND COORDINATED WITH THE FLORIDA EAST COAST RAILWAY COMPANY AT THE TIME OF CONSTRUCTION.

37. RELOCATION OF UTILITY POLES AND GAS PIPELINES SHALL BE COORDINATED BY THE CONTRACTOR WITH FLORIDA POWER AND LIGHT, AND FLORIDA PUBLIC UTILITIES, RESPECTIVELY. EACH UTILITY HAS BEEN NOTIFIED THAT THEY WILL BE REQUIRED TO RELOCATE THEIR UTILITIES.

38. CONTRACTOR TO ADJUST ALL UTILITY VALVES, METERS, AND COVERS TO MATCH NEW GRADE.

UTILITY CONTACTS

1. ALL UTILITY COMPANIES WITHIN THE PROJECT LIMITS SHALL BE LISTED WITH CONTACT PERSON AND PHONE NUMBER, AS FOLLOWS:

UTILITY	CONTACT PERSON	PHONE NUMBER
CITY OF DELRAY BEACH WATER/SEWER	ROB HUNT	(561) 243-7451
COMCAST-PBG	DANIEL TIBURCIO	(772) 321-1566
ATLANTIC BROADBAND	JAVARES HALL	(305) 213-9908
FLORIDA POWER &LIGHT - PALMBEACH	DAVID FUCHS	(321) 214-3814
FLA PUBLIC UTILITIES CO	PETER BONO	(561) 838-3395
HOTWIRE COMMUNICATIONS	WALTER DAVILA	(954) 699-0900
CENTURYLINK	NETWORK RELATIONS	(877) 366-8344
MCI	WILLIAM JEZEWSKI	(214) 490-11654
CROWN CASTLE NG FIBER	DANNY HASKETT	(786) 246-7828
A T & T/DISTRIBUTION	BEDWARD, GARTH	(561) 540-9263

GENERAL NOTES

1. REGULATIONS - ALL CONSTRUCTION SHALL BE DONE IN A WORKMAN LIKE MANNER AND SHALL CONFORM TO ALL CITY, COUNTY, STATE, AND FEDERAL REGULATIONS AND OR CODES INCLUDING BUT NOT LIMITED TO THE CURRENT PALM BEACH COUNTY AND FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) LATEST REGULATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND LICENSES TO BEGIN WORK AND PAY ALL REQUIRED FEES ASSOCIATED WITH SAME.

2. VERTICAL DATUM - ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988, AS ESTABLISHED BY NGS BENCHMARK SHOWN ON THE SPECIFIC PURPOSE SURVEY SHEETS.

3. HORIZONTAL DATUM - FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983, (2011 ADJUSTMENT)

4. GUARANTEE - THE CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIAL FOR A PERIOD OF ONE YEAR FROM THE DATE OF PROJECT ACCEPTANCE, DURING WHICH ALL FAULTY CONSTRUCTION AND/OR MATERIAL SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

5. RESTORATION - THE CONTRACTOR SHALL IMMEDIATELY REPAIR AND RESTORE EXISTING SITE FEATURES INCLUDING PAVEMENT, DRIVEWAYS, PIPES, FENCES, TRAFFIC CONTROL DEVICES, MAILBOXES AND PROPERTY CORNERS DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES. THE REPAIR AND RESTORATION SHALL CONFIRM TO APPLICABLE STANDARDS AS GOVERNED.

6. ALL FDOT STANDARDS AND SPECIFICATIONS SHALL BE AS PER THE EDITION CURRENT AT BID SUBMITTAL

7. ALL STRIPING AND DELINEATION TO CONFORM TO THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (MUTCD) LATEST EDITION.

8. ALL CROSSWALK SIGNS AND ADVANCED PAVEMENT MESSAGES TO BE DESIGNED AND INSTALLED PER FDOT STANDARD PLANS (INDEX NO. 711-001).

9. THE CONTRACTOR SHALL SUBMIT A DETAILED TRAFFIC CONTROL PLAN TO BE APPROVED BY THE CITY, PRIOR TO CONSTRUCTION. REFERENCE THE FDOT 600 SERIES FOR ALL REQUIRED AND APPLICABLE MOT PLANS.

10. ALL WORK MUST BE PERFORMED FROM AND WITHIN THE RIGHT OF WAY.

11. IF THE CONTRACTOR ENCOUNTERS AN EXISTING VALVE BOX THAT IS OUT OF PLUMB, THE CONTRACTOR SHALL COORDINATE WITH THE CITY TO ADJUST THE VALVE BOX.

12. CONTRACTOR SHALL PROVIDE PHOTO DOCUMENTATION OF ALL ADJACENT PROPERTY CONDITIONS PRIOR TO CONSTRUCTION.

13. PIPE SEPARATION DIMENSIONS ARE OUTSIDE WALL-TO-WALL.

14. CONTRACTOR SHALL PAY FOR AND COORDINATE ANY AND ALL TESTING LABORATORY (WATER, CONCRETE, DENSITY, PROCTORS, ETC.) REQUIREMENTS. CITY WILL APPROVE TESTING LABORATORY CONSULTANT ONLY.

15. CONTRACTOR SHALL COORDINATE SELECTION AND REVIEW OF ANY PROPOSED STAGING AREAS ASSOCIATED WITH THIS PROJECT WITH THE ENGINEER AT LEAST 30 CALENDAR DAYS PRIOR TO USE, IN ORDER TO COMPLY WITH THE FEDERAL ENDANGERED SPECIES ACT. THE STAGING AREA SHALL BE RESTORED TO ITS ORIGINAL OR BETTER CONDITION AS DETERMINED BY THE ENGINEER AT NO ADDITIONAL COST TO THE CITY. ALL STAGING AND STOCKPILING AREAS, WHETHER WITHIN OR OUTSIDE CITY RIGHT OF WAY, USED BY THE CONTRACTOR MUST HAVE SEDIMENT AND EROSION CONTROL MEASURES INSTALLED PRIOR TO USE AT NO ADDITIONAL COST TO THE CITY. THE CONTRACTOR SHALL INCLUDE ALL COST RELATED TO STAGING AREAS IN MOBILIZATION COST.

16. THE CONTRACTOR SHALL NOT BRING ANY HAZARDOUS MATERIALS ONTO THE PROJECT. SHOULD THE CONTRACTOR REQUIRE SUCH FOR PERFORMING THE CONTRACTED WORK, THE CONTRACTOR SHALL REQUEST, IN WRITING, WRITTEN PERMISSION FROM THE ENGINEER THE CONTRACTOR SHALL PROVIDE A COPY OF REQUEST TO THE CITY CONTAMINATION IMPACTS COORDINATOR THE CONTRACTOR SHALL PROVIDE THE CITY WITH A COPY OF THE MATERIAL SAFETY DATA SHEET (MSDS) FOR EACH HAZARDOUS MATERIAL PROPOSED FOR USE AND PROVIDE A DESCRIPTION OF THE SPECIFIC MANNER IN WHICH THE MATERIAL WILL BE USED THE PROJECT ENGINEER SHALL COORDINATE WITH THE CITY PRIOR TO ISSUING WRITTEN APPROVAL TO THE CONTRACTOR BECAUSE STATE LAW DOES NOT TREAT PETROLEUM PRODUCTS THAT ARE PROPERLY CONTAINERIZED AS HAZARDOUS MATERIAL, SUCH PRODUCTS DO NOT REQUIRE A MSDS SUBMITTAL ALL BULK PETROLEUM PRODUCTS STORED ON SITE SHALL REQUIRE PROPER STORAGE WHICH INCLUDES SECONDARY CONTAINMENT

17. IF SUSPECT CONTAMINATED OR HAZARDOUS MATERIAL IS FOUND ON THE PROJECT OR ENCOUNTERED DURING CONSTRUCTION THE CONTRACTOR SHALL CEASE OPERATIONS IN THAT AREA. IMMEDIATELY NOTIFY THE CITY AND PROTECT THE IMMEDIATE AREA OF SUSPECT CONTAMINATED OR HAZARDOUS MATERIAL FROM FURTHER ACCESS. THE CITY WILL ARRANGE FOR THE INVESTIGATION, IDENTIFICATION AND/OR REMOVAL/REMEDIATION OF THE MATERIAL IN QUESTION AS NEEDED.

18. AS PART OF THE CITY OF DELRAY BEACH CONSTRUCTION PROJECT, ANY PRIVATELY-OWNED IRRIGATION SYSTEMS FOUND INSIDE CITY RIGHT OF WAY SHALL BE CUT AND CAPPED AT THE RIGHT OF WAY LINE BY THE CONTRACTOR, WHERE THIS SYSTEM IS IMPACTED BY THE PROJECT CONSTRUCTION LIMITS. CONTRACTOR TO NOTIFY PROPERTY OWNER 48 HOURS PRIOR TO ANY MODIFICATIONS TO CUTTING AND CAPPING IRRIGATION LINES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ADJACENT PROPERTY OWNERS WHERE THE IRRIGATION SYSTEMS ARE FOUND TO ENSURE ALL SALVAGEABLE MATERIAL CAN BE RETRIEVED BY THE PROPERTY OWNER PRIOR TO CONSTRUCTION. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR, CONSTRUCT OR REPLACE THE IRRIGATION SYSTEMS WITHIN CITY RIGHT OF WAY CAPPED OR DAMAGED DURING THE CONSTRUCTION OPERATIONS. ALL COST FOR CUTTING AND CAPPING THE EXISTING IRRIGATION SYSTEM AND NOTIFICATION OF THE ADJACENT PROPERTY OWNERS ARE TO BE INCLUDED IN MAINTENANCE OF TRAFFIC COST.

19. CONTRACTOR TO ADJUST FIRE HYDRANTS TO MATCH NEW GRADE.

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OLD GERMANTOWN ROAD
GENERAL NOTES

SHEET: 11
OF: 177
PROJECT NO. 444377-1

20. CONTRACTOR IS TO PROVIDE ADJACENT PROPERTY OWNERS A 30-DAY ADVANCE NOTIFICATION PRIOR TO BEGINNING WORK IN THE AREA TO ALLOW THE PROPERTY OWNER TIME TO MODIFY ITEMS OWNED BY THE PROPERTY OWNER.

21. THE CONTRACTOR SHALL COORDINATE DRIVEWAY CONFIGURATION AND STYLE WITH THE CITY PRIOR TO CONSTRUCTION FOR EXISTING DRIVEWAYS WITH COLORED OR STAMPED CONCRETE, REPLACE NEW AND IN-KIND (MATCH EXIST PATTERN, COLOR, AND LAYOUT). FOR EXISTING PAVER DRIVEWAYS, CONSTRUCT ACCORDING TO ONE OF THE FOLLOWING OPTIONS, TO BE SELECTED BY THE CITY:

OPTION 1: REPLACE DRIVEWAY NEW AND IN-KIND.

OPTION 2: REMOVE AND REINSTALL EXIST. PAVERS IN THE EVENT THAT PAVERS HAVE BEEN DAMAGED DURING CONSTRUCTION, REPLACE DRIVEWAY NEW AND IN-KIND.

22. THE CONTRACTOR SHALL SUBMIT THE FOLLOWING FOR NEW PAVER INSTALLATION FOR EACH DRIVEWAY.

A. FOUR REPRESENTATIVE FULL-SIZE SAMPLES OF EACH PAVER TYPE, THICKNESS, COLOR, AND FINISH THAT INDICATE THE RANGE OF COLOR VARIATION AND TEXTURE EXPECTED IN THE FINISHED INSTALLATION COLOR(S), TEXTURE(S), AND PATTERN(S) TO MATCH EXIST. PAVERS

B. ACCEPTED SAMPLES BECOME THE STANDARD OF ACCEPTANCE FOR THE WORK.

C. TEST RESULTS FROM AN INDEPENDENT TESTING LABORATORY FOR COMPLIANCE OF A RCHITECTURAL PAVERS WITH ASTM C936 OR WITH ASTM C902.

D. MANUFACTURERS CATALOG PRODUCT DATA, INSTALLATION INSTRUCTIONS, AND MATERIAL SAFETY DATA SHEETS FOR THE SAFE HANDLING OF THE SPECIFIED MATERIALS AND PRODUCTS.

23. THE CONTRACTOR SHALL COMPLY WITH THE PROVISIONS OF: "THE FLORIDA TRENCH SAFETY ACT" CONTRACTOR MUST ABIDE BY UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT, CHAPTER 556, FLORIDA STATUTES (F.S.). OTHER LAWS MAY ALSO AFFECT EXCAVATIONS SUCH AS, "THE FLORIDA TRENCH SAFETY ACT, PART VI, CHAPTER 553, F.S.; THE FLORIDA GAS SAFETY LAW, PART 1, CHAPTER 368, F.S.; THE FEDERAL PIPELINE SAFETY ACT; AND OSHA STANDARD 1926.651".8. STATIONS AND OFFSETS REFER TO THE CENTERLINE OF CONSTRUCTION, UNLESS OTHERWISE NOTED.

24. THE CONTRACTOR WILL ASSUME LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE CONTRACTOR'S OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANIES WHEN THEIR EXISTING FACILITIES CONFLICT WITH THE CONSTRUCTIONS. INTERSECTING ROADS AND DRIVEWAYS ARE TO BE GRADED AS DIRECTED BY THE ENGINEER UNLESS OTHERWISE NOTED.

25. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT/LOCATE OTHER UTILITIES NOT SUBSCRIBING TO "SUNSHINE".

26. ALL PIPES SHALL BE IN ACCORDANCE WITH FLORIDA DOT AND PALM BEACH COUNTY REQUIREMENTS AND SHALL BE A MINIMUM 18" DIAMETER WITHIN THE CITY RIGHT OF WAY.

27. ALL INLET DRAINAGE STRUCTURES SHALL HAVE A MINIMUM 2' SUMP, EXCEPT CONTROL STRUCTURES. VARIATION FROM THIS REQUIREMENT MAY BE ALLOWED IN LIMITED CIRCUMSTANCES, SUCH AS TO AVOID UTILITY CONFLICTS. WEEP HOLES SHALL NOT BE A PART OF THESE SUMPS.

28. THE CONTRACTOR SHALL TAKE ALL NECESSARY CARE AND CAUTION TO PREVENT MILLED MATERIALS FROM ENTERING THE EXISTING AND PROPOSED DRAINAGE SYSTEM. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN ITEM MILLING EXISTING ASPHALT PAVEMENT.

29. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJOINING PROPERTIES AT ALL TIMES AND SCHEDULE WORK TO EXPEDITE DRIVEWAY DRAINAGE STRUCTURE INSTALLATION IN THE VICINITY OF ABUTTING PROPERTIES.

30. WHEN WORKING WITHIN (10') FEET OF A TRAFFIC SIGNAL POLE, PALM BEACH COUNTY TRAFFIC OPERATIONS SHALL BE NOTIFIED FROM 6 AM - 5 PM (561) 233-3900 AFTER 5 PM (561) 683-6885.

31. AT THE BEGINNING AND END OF THE PROJECT, THE CONTRACTOR SHALL USE CAUTION DURING SAW CUTTING AND MILLING OPERATIONS SO AS NOT TO DAMAGE EXISTING LOOPS. IN CASE OF DAMAGE, THE COST OF REPLACING EXISTING AND CONNECTING NEW LOOPS, SHALL BE AT THE CONTRACTOR'S COST.

32. IMMEDIATELY AFTER AWARDING THE CONTRACT BUT BEFORE THE CONTRACTOR BEGINS WORK, THE ENGINEER WILL CALL A PRE-CONSTRUCTION CONFERENCE AT A PLACE THE ENGINEER DESIGNATES TO GO OVER THE CONSTRUCTION ASPECTS OF THE PROJECT. ATTEND THIS MEETING, ALONG WITH THE CITY AND THE VARIOUS UTILITY COMPANIES THAT WILL BE INVOLVED WITH THE ROAD CONSTRUCTION.

33 .CONTRACTOR TO RESTORE PROJECT AREA TO EXISTING OR BETTER CONDITION AND PLACE SOD BEHIND SIDEWALK ALONG THE PROJECT LENGTH.

34. CONTRACTOR SHALL SUBMIT A SWPPP PRIOR AND DURING CONSTRUCTION OF ALL SITES. THIS PLAN AND IMPLEMENTATION MUST FOLLOW THE CITY'S STANDARD AND SPECS.

35. UTILITIES ARE TO BE ADJUSTED BY OTHERS UNLESS OTHERWISE NOTED.

36. PROJECT MANAGER AND THE DESIGN ENGINEER, SHALL BE ACCOMPANIED WITH MANUFACTURER'S DRAWINGS, SPECIFICATIONS, AND SUFFICIENT DATA TO ESTABLISH THE EQUIVALENCY OF THE PROPOSED SUBSTITUTION. AT THE CITY'S OPTION, A SIGNED AND SEALED CERTIFICATION BY A FLORIDA LICENSED ENGINEER MAY BE REQUIRED.

37. CONTRACTOR TO RESTORE PAVEMENT TO EXISTING OR BETTER CONDITION PER CITY OF DELRAY BEACH STANDARD GU 1.1.

38. ALL TREE REMOVAL MUST BE PERFORMED WITHIN THE RIGHT OF WAY. ALL TREE TRIMMING SHALL TAKE PLACE WITHIN OR AT THE RIGHT OF WAY LINE.

STORMWATER POLLUTION PREVENTION PLAN (SWPPP) - EROSION CONTROL FEATURES.

1. SILT FENCE SHALL BE INSTALLED ALONG ALL RIGHT OF WAY LINES TO CONTROL SEDIMENTATION.

2. INLET PROTECTION SHALL BE INSTALLED AT EVERY INLET WITHIN THE PROJECT LIMITS TO CONTROL SEDIMENTATION.

3. EROSION CONTROL ITEMS ARE INCLUDED FOR PREVENTION, CONTROL, ABATEMENT OF EROSION, SEDIMENTATION, AND WATER POLLUTION. THESE ITEMS ARE TO BE USED AT THE LOCATIONS DESCRIBED COMPLY WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

ENVIRONMENTAL NOTES:

1. WHEN ENCOUNTERING OR EXPOSING ANY ABNORMAL CONDITION INDICATING THE PRESENCE OF A HAZARDOUS OR TOXIC WASTE, OR CONTAMINANTS, CEASE OPERATIONS IMMEDIATELY IN THE VICINITY AND NOTIFY THE CITY OF DELRAY BEACH, THE PRESENCE OF TANKS OR BARRELS, DISCOLORED EARTH, METAL, WOOD, GROUND WATER, ETC. VISIBLE FUMES, ABNORMAL ODORS, EXCESSIVELY HOT EARTH, SMOKE, OR OTHER CONDITIONS THAT APPEAR ABNORMAL MAY INDICATE HAZARDOUS OR TOXIC WASTES OR CONTAMINANTS AND MUST BE TREATED WITH EXTREME CAUTION.

2. MAKE EVERY EFFORT TO MINIMIZE THE SPREAD OF CONTAMINATION INTO UNCONTAMINATED AREAS. IMMEDIATELY PROVIDE FOR THE HEALTH AND SAFETY OF ALL WORKERS AT THE JOB SITE AND MAKE PROVISIONS NECESSARY FOR THE HEALTH AND SAFETY OF THE PUBLIC THAT MAY BE EXPOSED TO ANY POTENTIALLY HAZARDOUS CONDITIONS PROVISIONS SHALL MEET ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS, RULES, REGULATIONS OR CODES COVERING HAZARDOUS CONDITIONS AND WILL BE IN A MANNER COMMENSURATE WITH THE GRAVITY OF THE CONDITIONS.

3. CONTRACTOR WILL COORDINATE AND MOBILIZE A QUALIFIED CONTAMINATION ASSESSMENT/REMEDIATION (CAR) CONTRACTOR. QUALIFICATIONS OF SUCH CAR CONTRACTOR SHALL INCLUDE, BUT NOT BE LIMITED TO: EXPERIENCE AND PERSONNEL TO PREPARE CONTAMINATION ASSESSMENT PLANS, CONDUCT CONTAMINATION ASSESSMENTS, PREPARE SITE ASSESSMENT REPORTS, REMEDIATION PLANS, IMPLEMENT REMEDIAL ACTION PLANS, RISK BASED CORRECTIVE ACTIONS, STORAGE TANKS SYSTEM REMOVAL, HIGHWAY SPILL RESPONSE AS WELL AS EXPERIENCE WITH INFRASTRUCTURE/CONSTRUCTION ACTIVITIES WITHIN (POTENTIALLY) CONTAMINATED AREAS SPECIFIC TO TRANSPORTATION SYSTEMS.

4. ALL THE WORK PERFORMED BY THE CAR CONTRACTOR SHALL BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS GOVERNING WORKER SAFETY AND ENVIRONMENTAL REGULATIONS. THIS IS TO INCLUDE OCCUPATIONAL EXPOSURE TO CONTAMINATED SOILS, GROUNDWATER, WASTES AND ATMOSPHERE DURING THE CONSTRUCTION OF ALL FEATURES INCLUDED IN THE CONSTRUCTION PLANS. IN ADDITION, THE CAR CONTRACTOR MUST BE STAFFED WITH FLORIDA LICENSED TECHNICAL PROFESSIONALS (GEOLOGISTS AND ENGINEERS) WHO WILL BE INVOLVED WITH THE PROJECT AND KNOWLEDGEABLE OF THE WORK ACTIVITIES CONDUCTED WITHIN THE IDENTIFIED CONTAMINATED AREAS AND WHO WOULD SIGN AND SEAL PROJECT REPORTS AS REQUIRED FOR SUBMITTAL TO THE APPROPRIATE ENVIRONMENTAL REGULATORY AGENCIES

5. THE CEI WILL IMMEDIATELY NOTIFY THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) DISTRICT IV CONTAMINATION IMPACT COORDINATOR (DCIC) MARIA SALAGADO AT (954) 777-4286 AFTER ENCOUNTERING THE UNIDENTIFIED AREAS OF CONTAMINATION. PRELIMINARY INVESTIGATION BY THE CAR CONTRACTOR WILL DETERMINE THE COURSE OF ACTION NECESSARY FOR SITE SECURITY AND THE STEPS NECESSARY UNDER APPLICABLE LAWS, RULES, AND REGULATIONS FOR ADDITIONAL ASSESSMENT

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No.	Revisions	By	Date

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AND/OR REMEDIATION WORK TO RESOLVE THE CONTAMINATION ISSUE. CAR CONTRACTOR WILL DETERMINE THE COURSE OF ACTION NECESSARY FOR SITE SECURITY AND THE STEPS NECESSARY UNDER APPLICABLE LAWS, RULES, AND REGULATIONS FOR ADDITIONAL ASSESSMENT AND/OR REMEDIATION WORK TO RESOLVE THE CONTAMINATION ISSUE.

6. FOLLOWING COMPLETION OF THE PROJECT, THE CAR CONTRACTOR SHALL BE REQUIRED TO PROVIDE COPIES OF ALL REPORTS SUBMITTED TO REGULATORY AGENCIES, WASTE MATERIAL PROFILES, MANIFESTS AND/OR DISPOSAL RECEIPTS FOR THE HANDLING OF ALL CONTAMINATED MEDIA INCLUDING, BUT NOT LIMITED TO GROUND WATER, WASTE WATER, SOILS, SOLID WASTES, SLUDGE, HAZARDOUS WASTES, AIR MONITORING RECORDS AND SAMPLE RESULTS FOR ALL MATERIALS TESTED AND ANALYZED TO THE LAP CITY OF DELRAY BEACH PROJECT MANAGER AND THE FOOT DCIC.

ABBREVIATIONS

ARV	AIR RELEASE VALVE
APH	ASPHALT
CIR	COLD IN-PLACE RECYCLE
CONC	CONCRETE
DIP	DUCTILE IRON PIPE
DRN	DRAINAGE
EL.	ELEVATION
EOP	EDGE OF PAVEMENT
EX	EXISTING
FH	FIRE HYDRANT
FM	SANITARY FORCE MAIN
INV	INVERT
LF	LINEAR FOOT
LS	LIFT STATION
MH	MANHOLE
OH	OVERHEAD ELECTRIC
OS	OFFSET
PVC	POLYVINYL CHLORIDE
PROP	PROPOSED
RCP	REINFORCED CONCRETE PIPE
RWM	RECLAIMED WATER MAIN
R/W	RIGHT OF WAY
SAN	SANITARY SEWER
STRM	STORMWATER
SP	SAMPLE POINT
STA	STATION
S/W	SIDEWALK
TYP	TYPICAL
WM	WATER MAIN
DCIC	DISTRICT CONTAMINATION IMPACT COORDINATOR

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WHEN WORKING WITHIN (10') FEET OF A TRAFFIC SIGNAL POLE, PALM BEACH COUNTY TRAFFIC OPERATIONS SHALL BE NOTIFIED FROM 6 AM - 5 PM (561) 233-3900 AFTER 5 PM (561) 683-6885.

PROPOSED SOD FOR SWALE REGRADING IS TO BE BAHIA SOD. SOD ADJACENT TO THE EXISTING RIGHT OF WAY MUST MATCH PRIVATE PROPERTY SOD TYPE.

NOTES FOR SAFE ROUTES TO SCHOOLS

MAINTENANCE OF TRAFFIC – SCHOOL

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE PALM BEACH COUNTY SCHOOL BOARD TO VERIFY ANY AREAS WHERE A SAFE ROUTE TO SCHOOL COULD BE IMPACTED BY CONSTRUCTION.

WITHIN THESE AREAS, THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FOLLOWING REQUIREMENTS:

A. PROVIDE AT LEAST ONE SAFE, WALKABLE PATH THROUGHOUT THE CONSTRUCTION ZONE. IF THE EXISTING WALKING SURFACES CANNOT BE MAINTAINED, THEN A TEMPORARY PATH, A MINIMUM OF 4 FOOT WIDE, SHALL BE PROVIDED. THE SAFE WALK ROUTE SHALL ALSO BE SEPARATED FROM THE CONSTRUCTION ACTIVITY DURING THE ENTIRE LENGTH OF THE PROJECT ENCOMPASSING THE ENTIRE WALK ROUTE WITH PROPER PEDESTRIAN OPENINGS AT DESIGNATED CROSSINGS IN COMPLIANCE WITH FOOT STANDARD PLANS INDEX 102-600 AS WELL AS MEETING ALL ADA REQUIREMENTS. THE CONTRACTOR SHALL ALSO INSTALL OR MODIFY ANY ADDITIONAL PAVEMENT MARKINGS, SIGNAGE, OR PEDESTRIAN SIGNALS AS NEEDED IN CONJUNCTION WITH THE TEMPORARY PATH

B. ON DAYS THAT SCHOOL IS IN SESSION, THE CONTRACTOR'S WORK SCHEDULE WITHIN THE SCHOOL ZONE MAY BE REDUCED BASED ON ACTUAL WORK ACTIVITIES IN THE SCHOOL ZONE. SEE MAINTENANCE OF TRAFFIC PLANS FOR DETAILS ON THE WORK ZONE RESTRICTIONS, IF WARRANTED. ANY CHANGES IN THE MAINTENANCE OF TRAFFIC WORK SCHEDULES, WITHIN SCHOOL ZONES, SHOULD BE DISCUSSED WITH THE PALM BEACH COUNTY SCHOOL BOARD.

C. ALL WORK REQUIRED AT DESIGNATED SCHOOL CROSSINGS AND PEDESTRIAN CROSSINGS SHALL BE RESTORED TO A SAFE WALKABLE PATH DURING ARRIVAL AND DISMISSAL TIMES.

D. THIRTY (30) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE PALM BEACH COUNTY SCHOOL BOARD TO DISCUSS ALL NECESSARY SAFETY MEASURES.

E. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PALM BEACH COUNTY SCHOOL BOARD IF CONSTRUCTION WILL IMPACT ANY BUS ROUTES.

UPON COORDINATION WITH THE AFOREMENTIONED PERSONNEL, AND IF DEEMED NECESSARY, A PRE-CONSTRUCTION MEETING WILL BE HELD TO DETERMINE ALL BUS ROUTES AND TO MAKE ANY NECESSARY ARRANGEMENTS FOR REROUTING. THE PALM BEACH COUNTY SCHOOL BOARD WILL BE NOTIFIED AND MAY ATTEND THE PRE-CONSTRUCTION MEETING.

EXISTING TREE-PRUNING NOTES

1. TREE PRUNING WORK MUST BE PERFORMED BY OR DIRECTLY SUPERVISED BY AN ISA-CERTIFIED ARBORIST.

2. CONTRACTOR SHALL HOLD A PRE-PRUNING CONFERENCE WITH THE OWNER AND ISA-CERTIFIED ARBORIST PRIOR TO COMMENCING PRUNING OPERATIONS.

3. PRUNE TREES PER ANSI A300 FOR THE FOLLOWING:

   A. MAINTENANCE - TO MAINTAIN OR IMPROVE THE TREE'S HEALTH AND STRUCTURE.

   B. HAZARD REDUCTION - TO REMOVE DEAD LIMBS OR OTHER VISIBLE HAZARDS FROM THE TREE CANOPY.

   C. CROWN CLEANING - TO SELECTIVELY REMOVE DEAD, DYING, OR DISEASED BRANCHES, WEAK BRANCHES, AND SUCKER SPROUTS.

   D. CROWN RAISING - TO REMOVE LOWER BRANCHES TO PROVIDE VERTICAL CLEARANCE.

   E. VISTA PRUNING - TO SELECTIVELY THIN FRAMEWORK LIMBS WITHIN THE CROWN TO ALLOW FOR VIEWS THROUGH THE TREE.

   F. CROWN RESTORATION - TO IMPROVE THE STRUCTURE, FORM, AND APPEARANCE OF A TREE THAT HAS BEEN DAMAGED.

ROOT PRUNING

1. THE LANDSCAPE ARCHITECT HAS OBSERVED TREES THAT COULD BE IMPACTED BY CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.

2. IF CONSTRUCTION ACTIVITIES OCCUR WITHIN THE DRIPLINE (OR THE HORIZONTAL EXTENT OF THE CANOPY) OF A TREE, THEN THAT TREE IS A CANDIDATE FOR ROOT PRUNING.

3. ROOT PRUNING MUST OCCUR PRIOR TO TRENCHING OPERATIONS TO ENSURE THAT THE ROOTS ARE CUT CLEAN AND AT PROPER ANGLES AND NOT MECHANICALLY RIPPED FROM THE EARTH DURING CONSTRUCTION.

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OLD GERMANTOWN ROAD
GENERAL NOTES

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4. FOR TREES REQUIRING ROOT PRUNING, A TREE ASSESSMENT SHALL BE CONDUCTED, AND A ROOT-PRUNING PLAN SHALL BE DEVELOPED BY AN ISA-CERTIFIED ARBORIST OR CONSULTING ARBORIST. THIS PLAN SHOULD IDENTIFY:

   A. MAXIMUM ALLOWABLE SIZE OF ROOTS TO BE CUT.

   B. ALLOWABLE PROXIMITY TO THE TRUNK FOR CUTS.

   C. TIME OF YEAR WHEN ROOT CUTTING 15 ALLOWABLE (NOTE: IN FLORIDA, IT IS BEST TO AVOID ROOT PRUNING DURING TIMES OF MAY THROUGH SEPTEMBER WHEN THE POTENTIAL FOR DAMAGING WIND LOADS ON TREES ARE GREATEST).

   D. METHOD FOR MAKING CUTS.

   E. MITIGATING CANOPY PRUNING.

   F. TYPE AND EXTENT OF NECESSARY STRUCTURAL SUPPORT.

   G. SCHEDULE FOR WASHING/FERTILIZATION AFTER PRUNING.

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OLD GERMANTOWN ROAD
GENERAL NOTES

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BEGIN PROJECT
BEGIN MILLING AND RESURFACING
℄ SURVEY OLD GERMANTOWN ROAD
STA 10+21.16

EXIST DBI (TO REMAIN)

BEGIN SUP TRANSITION
CONNECT TO EXIST SIDEWALK
STA. 11+60.50
45.87' (LT)

REMOVE EXIST CONC SIDEWALK

CLEARING AND GRUBBING
(SEE CROSS SECTION)

SPANISH WELLS

+58.01
41.70' (LT)

PC +70.91
38.49' (LT)

PRC+16.51
17.42' (LT)

EXIST CONC
SIDEWALK
(TO REMAIN)

PRC +04.50
28.90' (LT)

74' R

86' R

412' R

℄ SURVEY OLD GERMANTOWN ROAD

REFERENCE POINT
(SEE SPECIAL DETAIL)
STA. 13+00.00

CONST 12' CONC SUP
R/W LINE

PT +17.18
33.00' (LT)

0 10 40
Feet

+54.55
33.00' (LT)

PC +78.63
27.55' (LT)

EXIST DBI (TO REMAIN)

BEGIN STABILIZED
SHOULDER (LT & RT)
STA 10+80.00

TYPE D CURB

MILLING & RESURFACING

CONST 12'
CONC SUP

+11.82
35.00' (LT)

PT STA 13+04.77

+25.77
43.51' (LT)

+93.90
26.77' (RT)

+55.77
26.08' (RT)

BL01

S-1

CONST 7' OF 18" PIPE

+03.71
24.00' (RT)

S-2

PI STA. 10+16.91

BEGIN ℄ SURVEY
OLD GERMANTOWN ROAD
STA. 10+00.00

END HEADER CURB
STA 10+51.14, 29.08' (RT)
EL 14.90

+83.07
40.62' (RT)

+19.83
40.39' (LT)

S 69° 58' 18" E

OLD GERMANTOWN ROAD

N 68° 47' 45" E

PC +36.30
35.71' (RT)

PT +54.44
45.70' (RT)

+33.88
32.92' (RT)

+23.17
52.10' (RT)

BEGIN 12' SUP
STA 10+22.93 39.66' (RT)

PT +13.76
38.08' (RT)

PC +88.39
39.71' (RT)

+23.03
55.18' (RT)

PC +24.51
41.56' (RT)

+82.75
42.32' (RT)

BEGIN REMOVAL OF FENCE
STA 13+50, 30.52' (RT)

BEGIN PROPOSED FENCE
STA 13+50, 39.50' (RT)

REMOVE EXIST
ASPHALT SIDEWALK

BEGIN 10' SUP
STA 12+99.43, 33.84' (RT)

+14.79
49.63' (RT)

+98.63
37.81' (RT)

CLEARING AND GRUBBING
(SEE CROSS SECTION)

BEGIN HEADER CURB
STA 10+11.67, 60.02' (RT)
EL 15.78

+65.82
40.19' (RT)

R/W LINE

PT +05.88
57.41' (RT)

CONST 12' CONC SUP

PC +66.42
59.90' (RT)

REMOVE
EXIST ASPHALT SIDEWALK

END 12' SUP
STA 12+64.75
37.58' (RT)

CLEARING AND GRUBBING
(SEE CROSS SECTION)

PT +30.98
54.47' (RT)

+32.78
62.51' (RT)

END SUP TRANSITION
PC STA 10+52.96
57.69' (RT)

REMOVE
EXIST ASPHALT
SIDEWALK

CONST 10' CONC SUP

BEGIN SUP
TRANSITION
CONNECT TO
EXIST SIDEWALK
STA 10+45.72
61.96' (RT)

PARK ACCESS
ROAD

PC +46.17
60.91' (RT)

DELRAY BEACH FIRE
DEPARTMENT STATION 5

EXIST DBI (TO REMAIN)

EXIST ASPHALT
SIDEWALK
(TO REMAIN)

BL01

PI STA. = 11+67.39
Δ = 41° 13' 57" (RT)
D = 14° 19' 26"
T = 150.48
L = 287.86
R = 400.00
PC STA. = 10+16.91
PT STA. = 13+04.77

3" MILLING AND RESURFACING

6" CONCRETE SUP

DETECTABLE WARNING SURFACE

PROPOSED TANDEM LUMINAIRE INSTALLED BY FPL
(SEE EXACT LOCATION SEE FPL PLANS)

PROPOSED SINGLE LUMINAIRE INSTALLED BY FPL
(SEE EXACT LOCATION SEE FPL PLANS)

EXIST LIGHT POLES TO REMAIN

FOXE CHASE

MATCH LINE STA 15+60.00

NOTES

1. CONST 9" THICKENED CONCRETE WHERE CONCRETE ABUTS ASPHALT PER CITY OF DELRAY BEACH DETAIL RT 18.1

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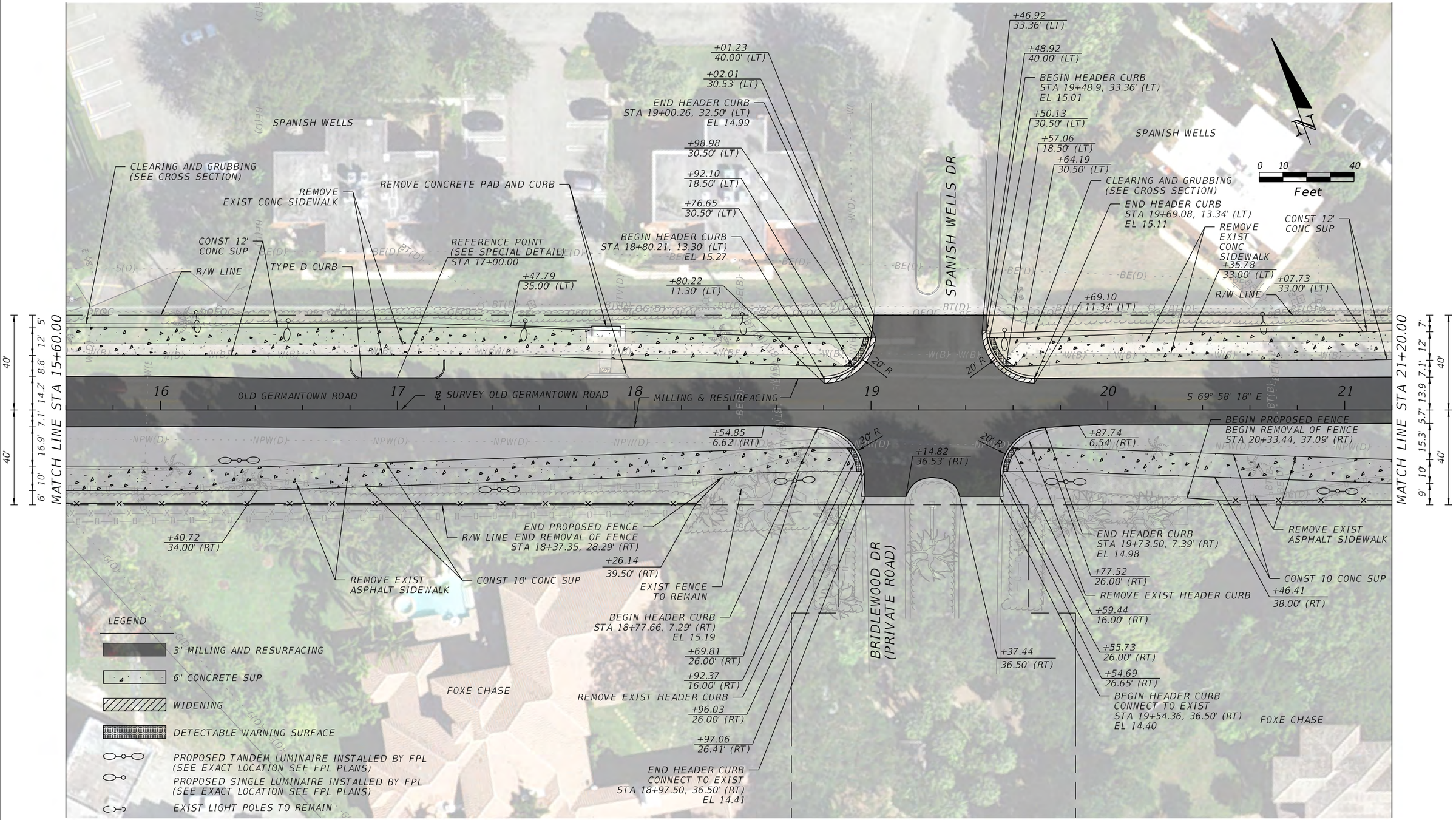
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OLD GERMANTOWN ROAD
ROADWAY PLAN

SHEET: 15
OF: 177
PROJECT NO. 444377-1



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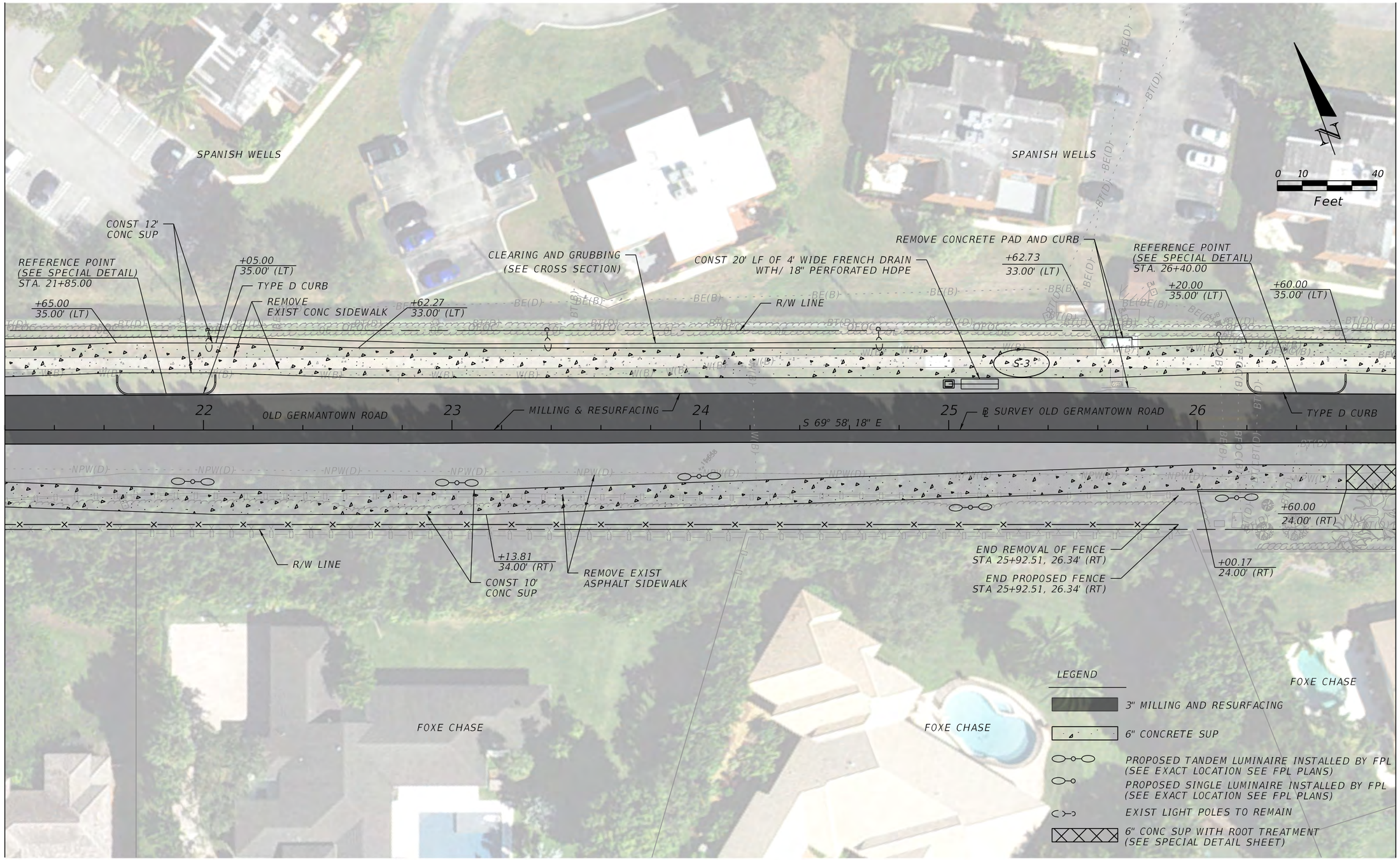
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CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

OLD GERMANTOWN ROAD

ROADWAY PLAN

SHEET: 16
OF: 177
PROJECT NO. 444377-1



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PROPEL

PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:

MAJHARUL ALAM, PE
P.E# 61600

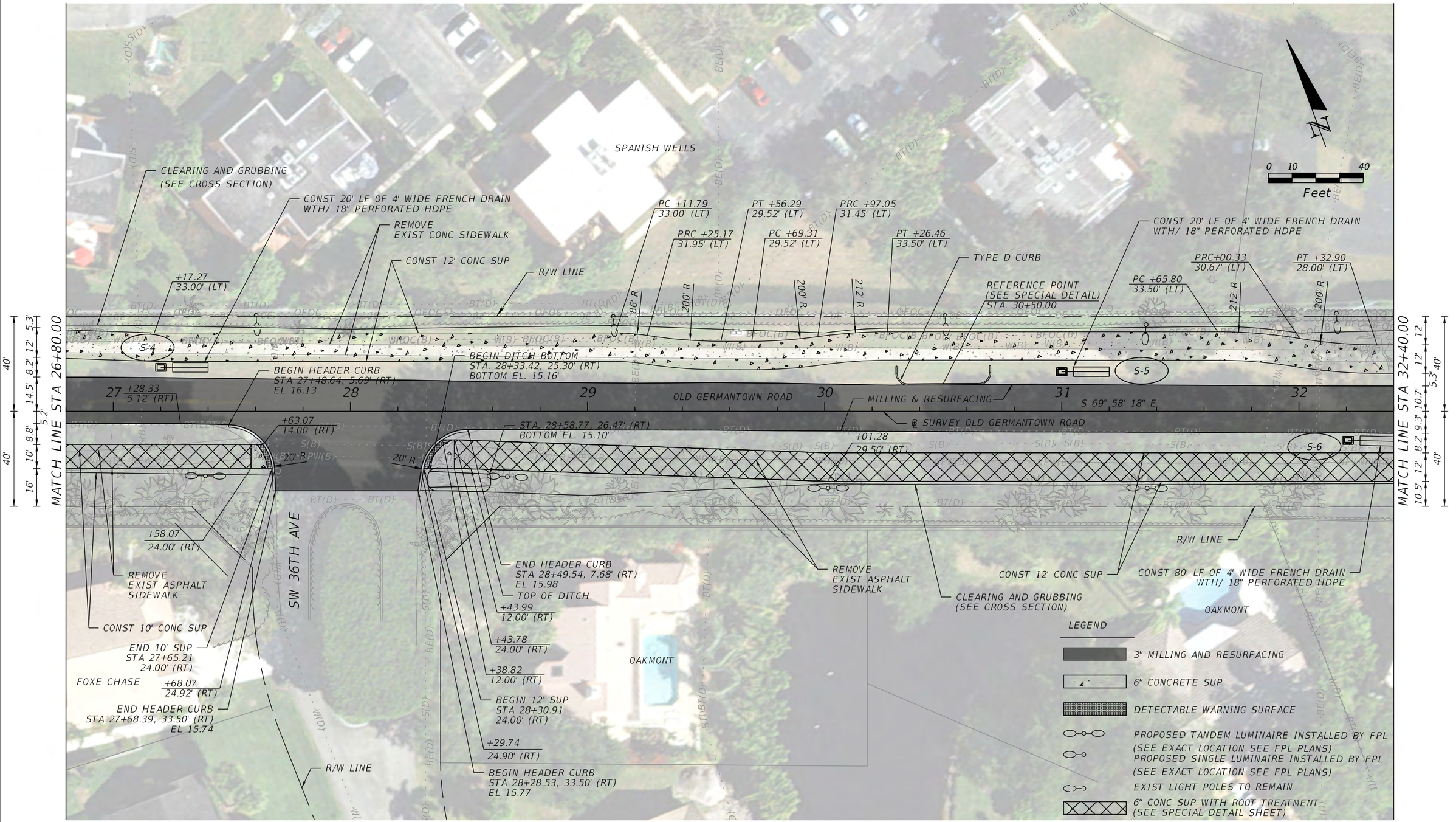
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OLD GERMANTOWN ROAD

ROADWAY PLAN

SHEET: 17
OF: 177
PROJECT NO. 444377-1



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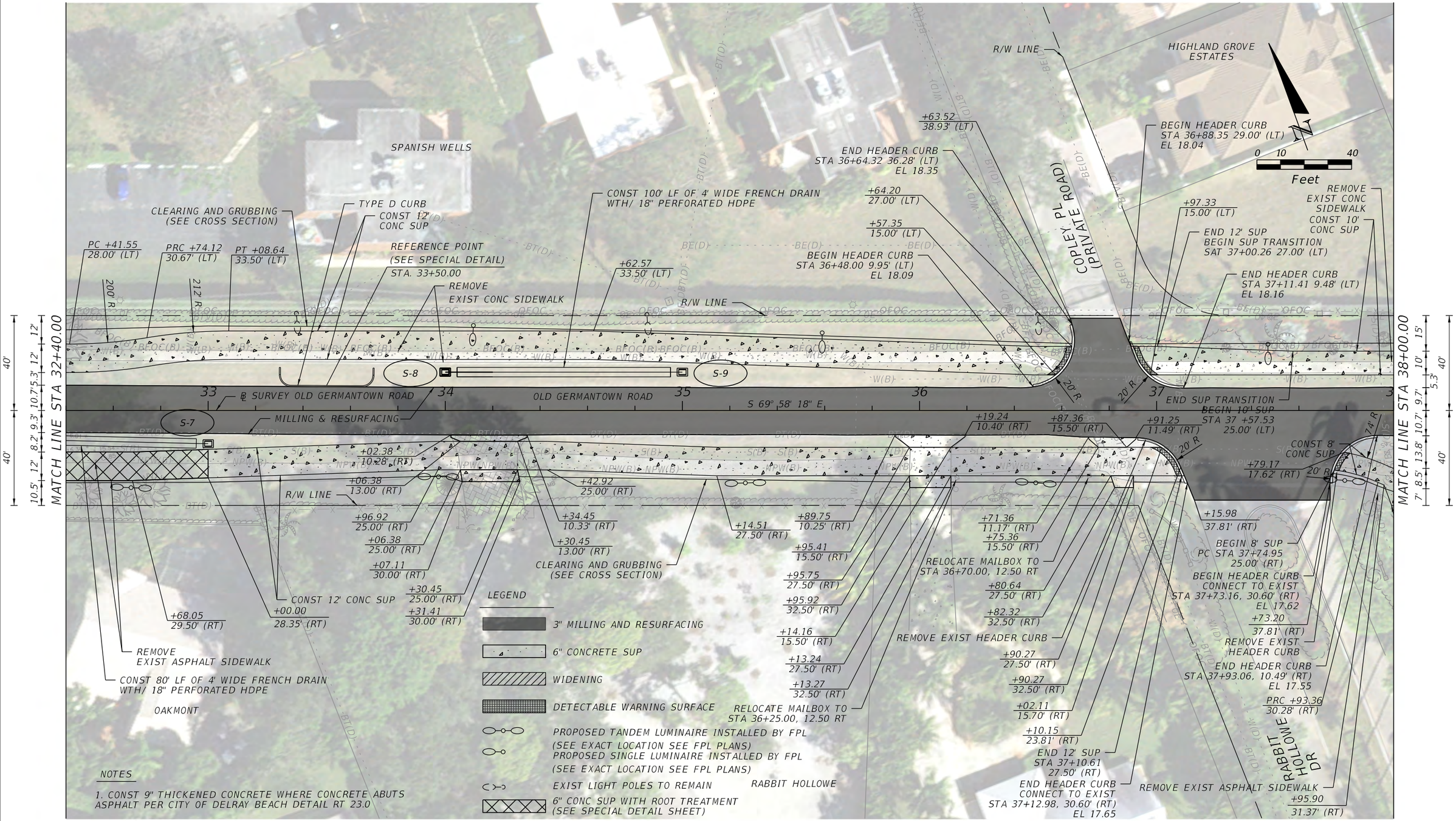
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OLD GERMANTOWN ROAD

ROADWAY PLAN

SHEET: 18
OF: 177
PROJECT NO. 444377-1



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OLD GERMANTOWN ROAD

ROADWAY PLAN

SHEET: 19
OF: 177
PROJECT NO. 444377-1

REMOVE EXIST CONC SIDEWALK
CONST 10' CONC SUP
HIGHLAND GROVE DR (PRIVATE ROAD)
END HEADER CURB CONNECT TO EXIST STA. 40+16.83, 39.23' (LT) EL 17.28
MATTHEW LEHRMAN OSTEOSARCOMA FUND
HIGHLAND GROVE
+33.04 39.23' (LT)
+37.71 39.23' (LT)
VERANO AT DELRAY
BEGIN HEADER CURB CONNECT TO EXIST STA 40+54.88, 39.23' (LT) EL 17.22
REMOVE EXIST HEADER CURB
PALM COVE BLVD (PRIVATE ROAD)
BEGIN HEADER CURB STA. 39+86.24, 9.36' (LT) EL 17.84
REMOVE EXIST CONC SIDEWALK
R/W LINE
CONST 10' CONC SUP'
REMOVE EXIST TYPE F C&G
EXIST TYPE F C&G TO REMAIN
EXIST TYPE F C&G TO REMAIN
+17.99 25.09' (LT)
EXIST CONC SIDEWALK TO REMAIN
+12.01 25.00' (LT)
+02.55 15.00' (LT)
REMOVE EXIST HEADER CURB
+61.76 25.00' (LT)
+61.94 21.92' (LT)
+68.15 15.00' (LT)
END HEADER CURB STA 40+80.62, 9.47' (LT) EL 17.71
END 10' SUP BEGIN SUP TRANSITION PC STA 41 +90.86 25.00' (LT)
PRC +17.15 29.69' (LT)
END SUP TRANSITION BEGIN 12' SUP PT +46.90 35.00' (LT)
CONST 12' CONC SUP
REMOVE EXIST CONC SIDEWALK TYPE D CURB
CLEARING AND GRUBBING (SEE CROSS SECTION)
REFERENCE POINT (SEE SPECIAL DETAIL) STA. 42+40.00
+53.07 25.00' (LT)
REMOVE EXIST TYPE F C&G
+49.54 15.00' (LT)
+28.07 15.00' (LT)
CONST 8' CONC SUP S 69° 58' 18" E
OLD GERMANTOWN ROAD
℄ SURVEY OLD GERMANTOWN ROAD
MILLING & RESURFACING
+01.61 22.50' (RT)
FILL LOW AREA CONST 8' CONC SUP
PT +95.80 22.50' (RT)
+79.79 31.00' (RT)
+50.85 14.50' (RT)
+77.96 19.50' (RT)
CONST 8' CONC SUP
MATCH LINE STA 38+00.00
MATCH LINE STA 43+60.00
+05.00 34.51' (RT)
PC +65.03 29.01' (RT)
PT +61.75 30.46' (RT)
REMOVE EXIST ASPHALT SIDEWALK
STA 38+03.94 40.00' (RT) (CONNECT TO EXIST SIDEWALK)
EXIST ASPHALT SIDEWALK (TO REMAIN)
+01.42 33.41' (RT)
STA 37+99.10 40.00' (RT) (CONNECT TO EXIST SIDEWALK
+15.74 27.50' (RT)
+13.74 22.50' (RT)
+10.61 14.50' (RT)
+06.61 10.96' (RT)
+55.91 11.41' (RT)
+54.79 31.00' (RT)
+52.25 22.50' (RT)
+51.61 27.50' (RT)
+40.74 27.50' (RT)
+30.57 27.50' (RT)
+12.57 10.47' (RT)
+08.57 14.50' (RT)
+08.03 22.50' (RT)
+08.12 27.50' (RT)
+97.13 27.50' (RT)
+94.87 22.50' (RT)
+94.07 14.50' (RT)
+90.07 10.62' (RT)
PRC +72.51 29.50' (RT)
END SUP TRANSITION BEGIN 12' SUP SAT 41+04.09 36.50' (RT)
REMOVE EXIST ASPHALT SIDEWALK
CONST 12' CONC SUP
CLEARING AND GRUBBING (SEE CROSS SECTION)
R/W LINE
END 8' SUP BEGIN SUP TRANSITION SAT 40+40.65 22.50' (RT)
VERONA WOODS

1 BEGIN HEADER CURB STA. 38+38.92, 9.36' (LT) EL 17.95
2 END HEADER CURB BEGIN TYPE F C&G BEGIN TRANSITION FROM 0 TO FULL HEIGHT STA. 38+54.11, 25.00' (LT) EL 17.72
3 END TYPE F C&G STA. 38+52.46, 27.79' (LT)
4 END TYPE F C&G STA. 39+16.85, 28.00' (LT)
5 END HEADER CURB BEGIN TYPE F C&G BEGIN TRANSITION FROM 0 TO FULL HEIGHT STA. 39+16.83, 25.00' (LT) EL 18.23
6 END HEADER CURB STA. 39+41.20, 10.00' (LT EL 18.61

0 10 40 Feet

LEGEND
- 3" MILLING AND RESURFACING
- 6" CONCRETE SUP
- DETECTABLE WARNING SURFACE
- PROPOSED TANDEM LUMINAIRE INSTALLED BY FPL (SEE EXACT LOCATION SEE FPL PLANS)
- PROPOSED SINGLE LUMINAIRE INSTALLED BY FPL (SEE EXACT LOCATION SEE FPL PLANS)
- EXIST LIGHT POLES TO REMAIN
- 6" CONC SUP WITH ROOT TREATMENT (SEE SPECIAL DETAIL SHEET)

NOTES
1. CONST 9" THICKENED CONCRETE WHERE CONCRETE ABUTS ASPHALT PER CITY OF DELRAY BEACH DETAIL RT 23.0

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FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal: MAJHARUL ALAM, PE P.E# 61600

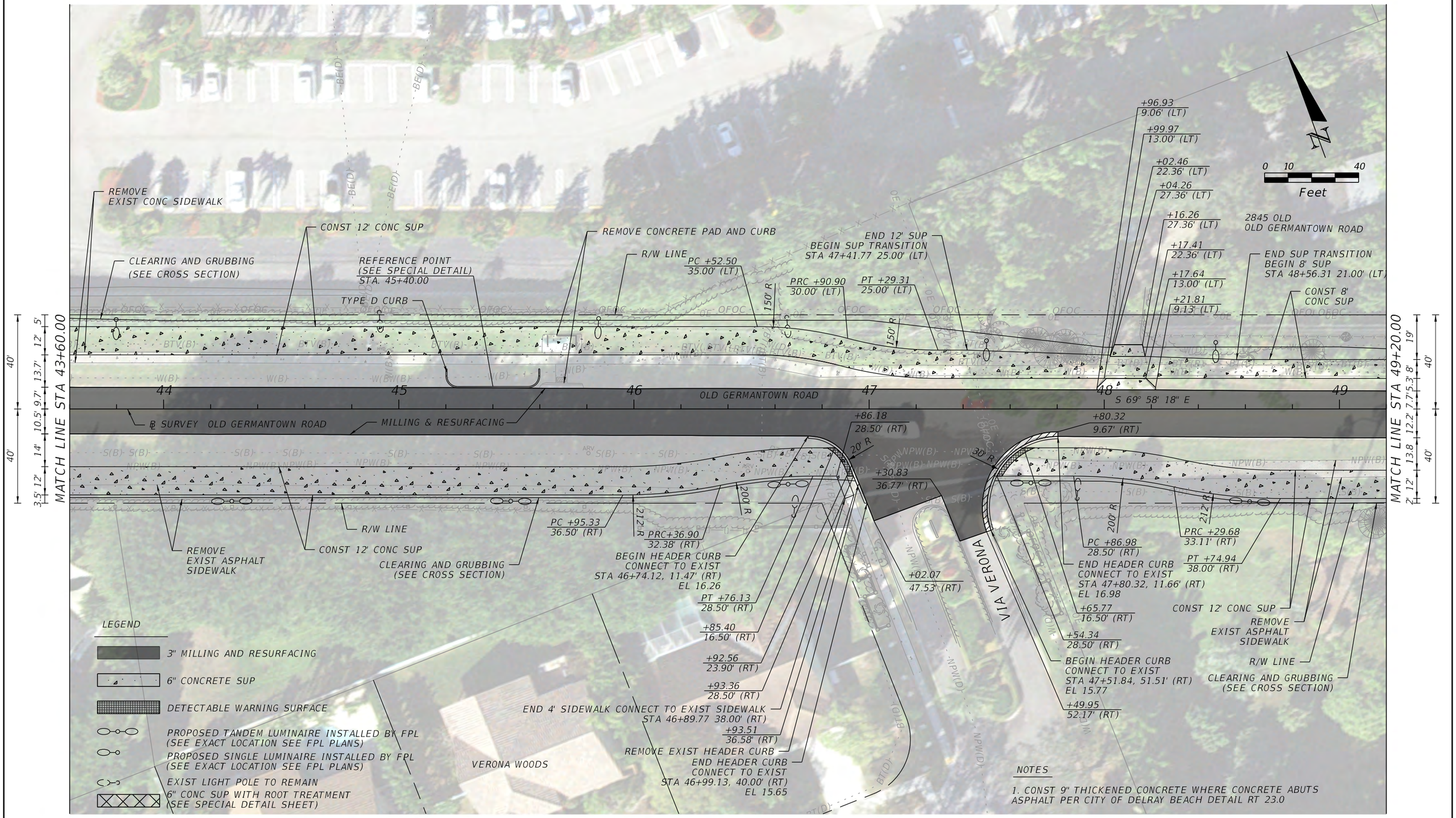
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OLD GERMANTOWN ROAD
ROADWAY PLAN

SHEET: 20
OF: 177
PROJECT NO. 444377-1

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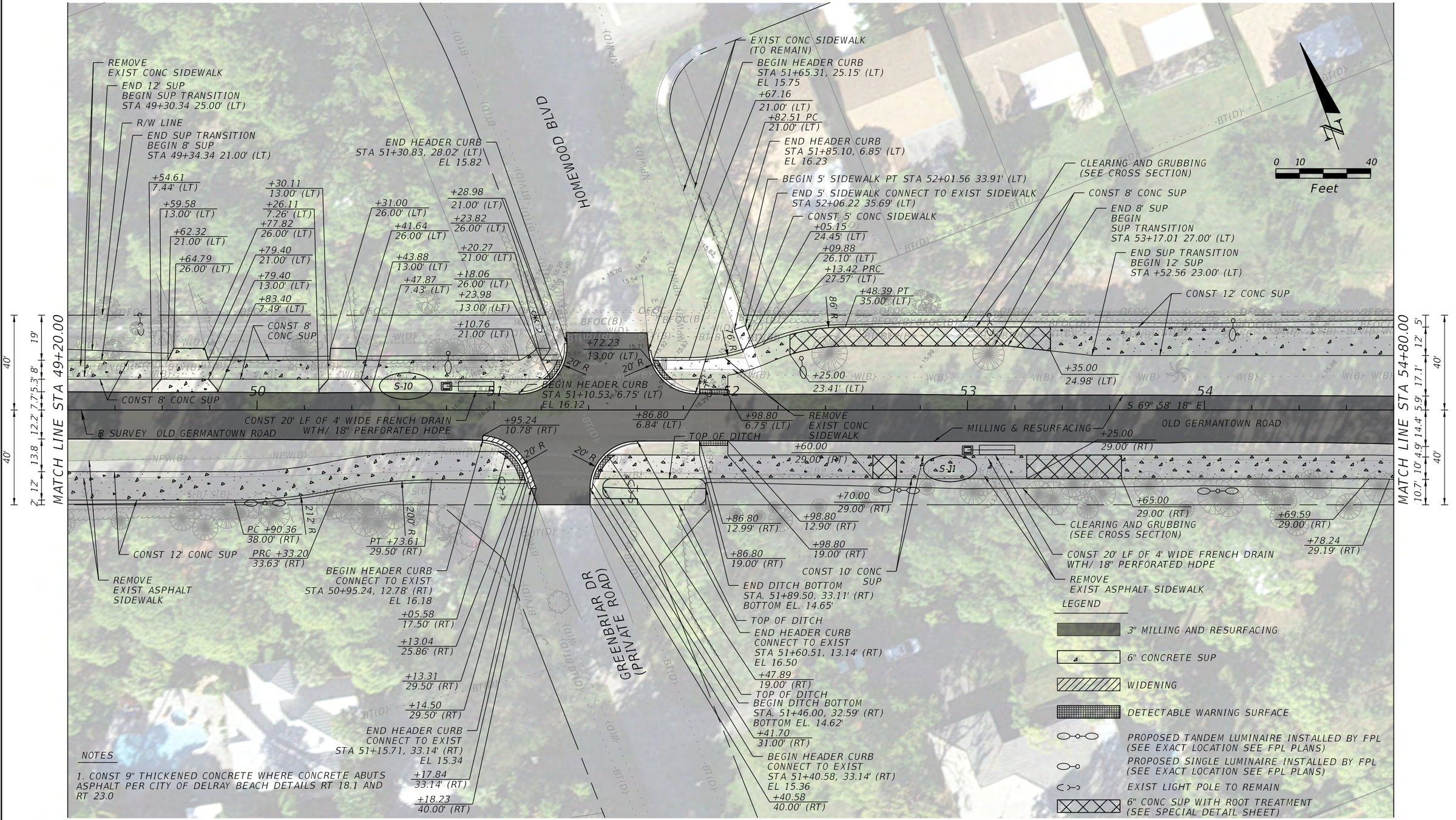
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OLD GERMANTOWN ROAD
ROADWAY PLAN

SHEET: 21
OF: 177
PROJECT NO. 444377-1



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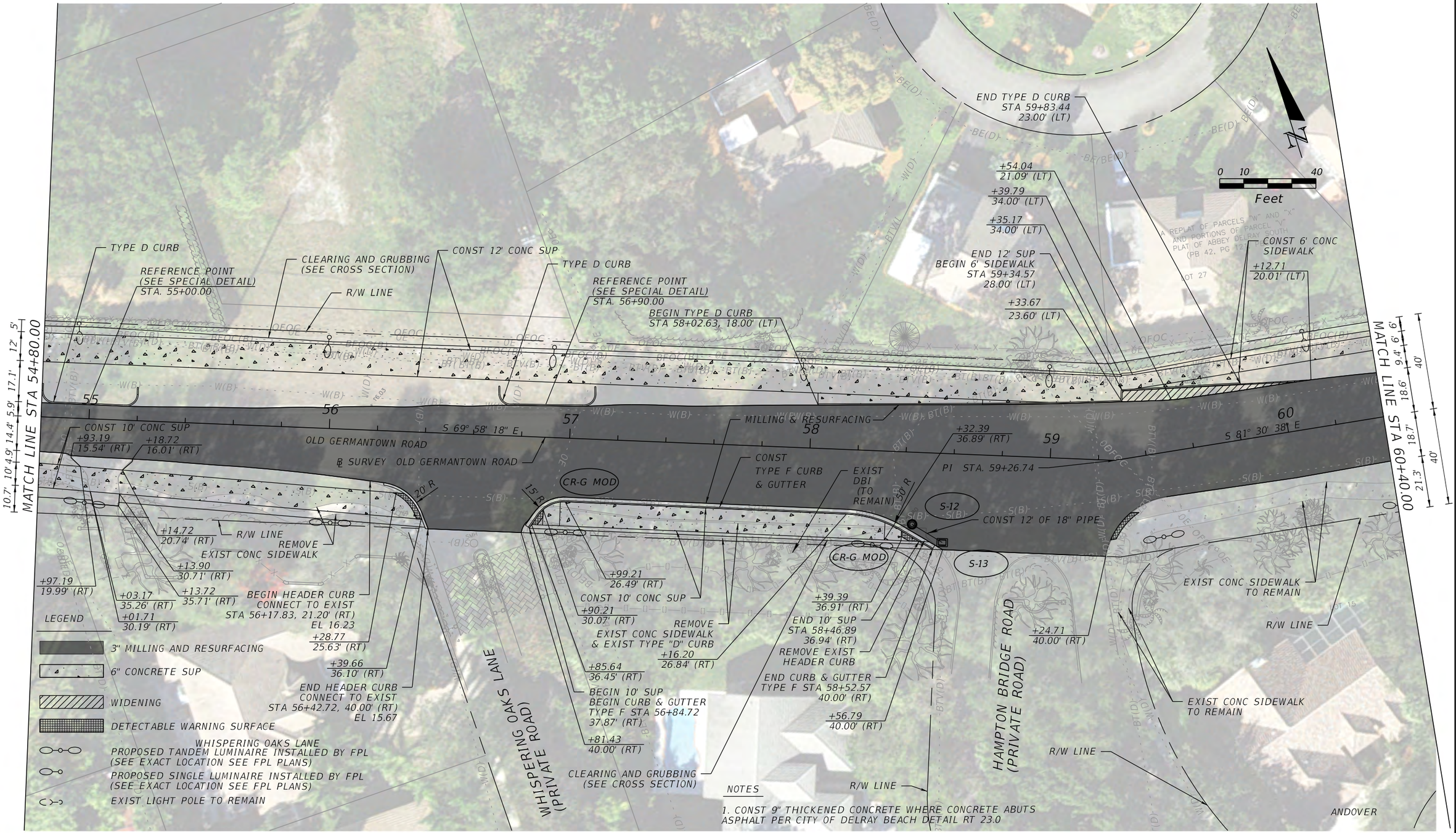
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OLD GERMANTOWN ROAD

ROADWAY PLAN

SHEET: 22
OF: 177
PROJECT NO. 444377-1



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MAJHARUL ALAM, PE
P.E# 61600

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OLD GERMANTOWN ROAD

ROADWAY PLAN

SHEET: 23
OF: 177
PROJECT NO. 444377-1

END 5' SIDEWALK
STA 62+06.39, 19.64' (LT)
(CONNECT TO EXIST SIDEWALK)

END TYPE D CURB
STA 62+06.39, 15.14' (LT)
(CONNECT TO EXIST SIDEWALK)

REMOVE EXIST CURB

BEGIN 5' SIDEWALK
STA 61+86.97
20.14' (LT)

EXIST GUARDRAIL
(TO REMAIN)

CLEARING AND GRUBBING
(SEE CROSS SECTION)

PT +43.26
22.57' (LT)

PRC +28.02
27.74' (LT)

+24.03
23.19' (LT)

R/W LINE

CONST 6' CONC SIDEWALK

PC +07.74
34.00' (LT)

36' R

30' R

MATCH LINE STA 60+40.00

40'
18.6'
9.4'
6'
18.7'
21.3'

1 BEGIN TYPE D CURB
BEGIN 3' VERTICAL TRANSITION
FROM 0' TO FULL HEIGHT CURB
STA 61+24.00
16.80' (LT)

2 BEGIN 3' VERTICAL TRANSITION
FROM FULL HEIGHT CURB TO 0'
STA 61+69.27
15.14' (LT)

3 BEGIN 3' VERTICAL TRANSITION
FROM 0' TO FULL HEIGHT CURB
STA 61+86.27
15.14' (LT)

4 BEGIN 3' VERTICAL TRANSITION
FROM FULL HEIGHT CURB TO 0'
STA 63+36.19
14.22' (LT)

5 END TYPE D CURB
STA 64+22.90
12.48' (LT)

6 BEGIN TYPE D CURB
STA 63+38.90
18.54' (RT)

7 BEGIN BRIDGE
BRIDGE NO. 934482
STA 62+06.27

8 EXIST GUARDRAIL
(TO REMAIN)

LWDD CANAL E-4

LWDD FEE R/W
179.9'

LWDD R/W LINE

EXIST GUARDRAIL
(TO REMAIN)

REMOVE EXIST CURB

PC +36.65
19.64' (LT)

BEGIN SUP TRANSITION
STA 63+18.52 19.72' (LT)
(CONNECT TO EXIST SIDEWALK)

BEGIN TYPE D CURB
STA 63+18.52, 14.22' (LT)
(CONNECT TO EXIST SIDEWALK)

END BRIDGE
BRIDGE NO. 934482
STA 63+19.08

EXIST
TYPE D CURB
(TO REMAIN)

EXIST SIDEWALK
(TO REMAIN)

11'
5'

LWDD R/W LINE

END TYPE D CURB
63+77.63, 8.31' (RT)

+99.75
15.83' (LT)

PRC +18.38
28.62' (LT)

END SUP
TRANSITION
BEGIN 12' SUP
PC 63+10.47
12.94' (LT)

N

0 10 40
Feet

AXIS DELRAY BEACH

CLEARING AND GRUBBING
(SEE CROSS SECTION)

CONST 12' CONC SUP

℄ SURVEY OLD GERMANTOWN ROAD

+17.35
15.19' (LT)

+22.91
17.49' (LT)

PRC +23.44
17.73' (LT)

PT +49.55
35.50' (LT)

PT +49.55
23.50' (LT)

MATCH LINE STA 66+00.00

40'
12.4'
11.4'
12.1'
11.5'
10'
12'
6.5'

61
62
63
64
65
66

S 81° 30' 38" E

N 68° 35' 32" E

OLD GERMANTOWN ROAD

BRIDGE #934482

74' R

62' R

74' R

86' R

212' R

MILLING & RESURFACING

EXIST
TYPE D CURB
(TO REMAIN)

EXIST SIDEWALK
(TO REMAIN)

PI STA. 63+65.84

EXIST CONC SIDEWALK
TO REMAIN

ANDOVER SECTION
(PB 34, PG 34)

EXIST GUARDRAIL
(TO REMAIN)

R/W LINE

23.29'

BEGIN APPROACH SLAB
BRIDGE NO. 934482
END MILLING & RESURFACING
STA 61+86.27

9 BEGIN SUP
TRANSITION PC
STA 63+36.87
24.34' (RT)
(CONNECT TO
EXIST SIDEWALK)

10 +36.75
14.85' (RT)

11 +38.93
14.83' (RT)

190' (MEASURED WIDTH VARIES)

+38.87
21.05' (RT)

+76.03
13.56' (RT)

+31.84 PT
33.50' (RT)

+50.70
12.85' (RT)

END SUP
TRANSITION
BEGIN 12' SUP
63+54.69, 11.29' (RT)

CONST 12'
CONC SUP

END APPROACH SLAB
BRIDGE NO. 934482
BEGIN MILLING & RESURFACING
STA 63+39.08

LWDD R/W LINE

SABAL PINE CONDOMINIUM

EXIST
SIDEWALK
(TO REMAIN)

REMOVE
EXIST SIDEWALK

CLEARING AND GRUBBING
(SEE CROSS SECTION)

LEGEND

3" MILLING AND RESURFACING

6" CONCRETE SUP

WIDENING

PROPOSED TANDEM LUMINAIRE INSTALLED BY FPL
(SEE EXACT LOCATION SEE FPL PLANS)

PROPOSED SINGLE LUMINAIRE INSTALLED BY FPL
(SEE EXACT LOCATION SEE FPL PLANS)

EXIST LIGHT POLE TO REMAIN

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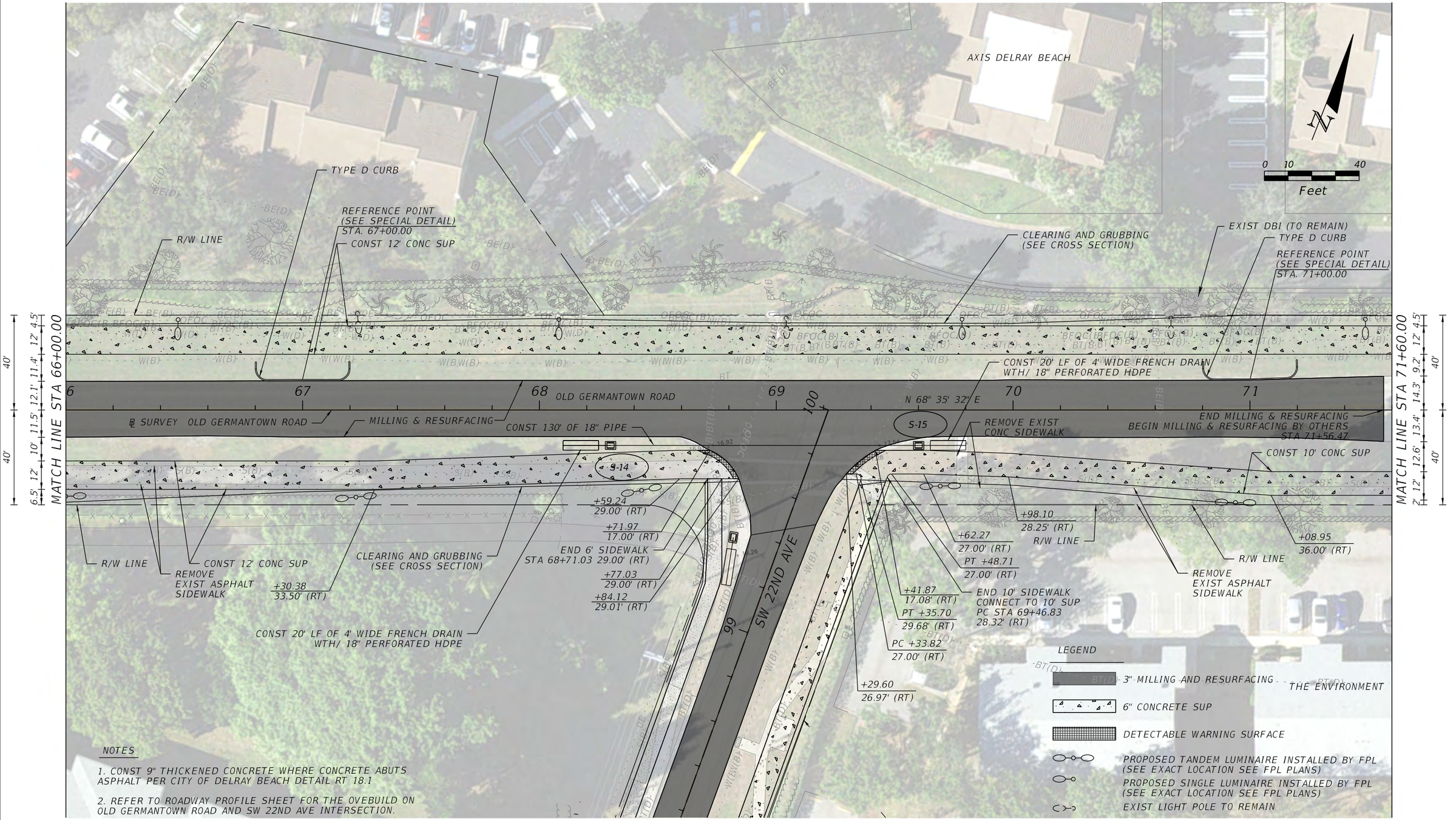
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OLD GERMANTOWN ROAD
ROADWAY PLAN

SHEET: 24
OF: 177
PROJECT NO. 444377-1



NOTES

1. CONST 9" THICKENED CONCRETE WHERE CONCRETE ABUTS ASPHALT PER CITY OF DELRAY BEACH DETAIL RT 18.1

2. REFER TO ROADWAY PROFILE SHEET FOR THE OVEBUILD ON OLD GERMANTOWN ROAD AND SW 22ND AVE INTERSECTION.

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OLD GERMANTOWN ROAD
ROADWAY PLAN

SHEET: 25
OF: 177
PROJECT NO. 444377-1

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AXIS DELRAY BEACH

N

0 10 40
Feet

CONC MEDIAN (TO BE CONSTRUCTED BY OTHERS)

CONST 12' CONC SUP

R/W LINE

CONST 4' OF 18" PIPE WITH CONCRETE JACKET CONNECT TO EXISTING PIPE

CLEARING AND GRUBBING (SEE CROSS SECTION)

S-17

S-18

OLD GERMANTOWN ROAD

72 73 74 75 76 77

CONST 10' CONC SUP

+83.97 12.79' (RT)

EXIST DRIVEWAY (TO BE REMOVED BY OTHERS)

DRIVEWAY (TO BE CONSTRUCTED BY OTHERS)

CONC MEDIAN (TO BE CONSTRUCTED BY OTHERS)

N 68° 35' 32" E

CONST 4' OF 18" PIPE WITH CONCRETE JACKET CONNECT TO EXISTING PIPE

S-19

S-20

S-16

MATCH LINE STA 71+60.00

40' 2' 12' 12.6' 13.4' 14.3' 9.2' 12' 4.5'

MATCH LINE STA 77+20.00

40' 2' 12' 9.3' 16.7' 17.9' 5.6' 12' 4.5'

20' R 20' R

+56.43 26.00' (RT)

+66.10 36.00' (RT)

+12.66 26.00' (RT)

R/W LINE

+03.24 36.00' (RT)

CONST 10' CONC SUP

END HEADER CURB STA 72+54.20, 15.98' (RT) EL 17.90

REMOVE EXIST ASPHALT SIDEWALK

CONST 50' LF OF 4' WIDE FRENCH DRAIN WTH/ 18" PERFORATED HDPE

CONST 10' CONC SUP

℄ SURVEY OLD GERMANTOWN ROAD

REMOVE EXIST ASPHALT SIDEWALK

CLEARING AND GRUBBING (SEE CROSS SECTION)

+36.80 26.00' (RT)

+34.70 27.85' (RT)

+32.51 36.00' (RT)

+04.07 40.00' (RT)

+01.67 36.00' (RT)

+99.57 26.00' (RT)

BEGIN HEADER CURB STA 72+30.08, 40.00' (RT) EL 17.93

END HEADER CURB STA 72+00.97, 40.00' (RT) EL 18.18

BEGIN HEADER CURB STA 71+83.97, 14.80' (RT) EL 18.13

8' CONC SIDEWALK (TO BE CONSTRUCTED BY OTHERS)

8' CONC SIDEWALK (TO BE CONSTRUCTED BY OTHERS)

6' CONC SIDEWALK (TO BE CONSTRUCTED BY OTHERS)

REMOVE EXIST ASPHALT SIDEWALK

PARKS AT DELRAY (UNDER CONSTRUCTION)

LEGEND

- 3" MILLING AND RESURFACING
- 6" CONCRETE SUP
- DETECTABLE WARNING SURFACE
- PROPOSED TANDEM LUMINAIRE INSTALLED BY FPL (SEE EXACT LOCATION SEE FPL PLANS)
- PROPOSED SINGLE LUMINAIRE INSTALLED BY FPL (SEE EXACT LOCATION SEE FPL PLANS)
- EXIST LIGHT POLE TO REMAIN

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OLD GERMANTOWN ROAD

ROADWAY PLAN

SHEET: 26
OF: 177
PROJECT NO. 444377-1

S:\2240010200-Germantown_Complete_St\44437715801\roadway\PLANRD12.dgn IsaHammadu 4/4/2024 2:23:41 PM

AXIS DELRAY BEACH

SPRING HARBOR DR

LINTON LAKE DR

CONC MEDIAN (TO BE CONSTRUCTED BY OTHERS)

CONST 12' CONC SUP

CLEARING AND GRUBBING (SEE CROSS SECTION)

CONST 4' OF 18" PIPE WITH CONCRETE JACKET CONNECT TO EXISTING PIPE

+39.10 35.50' (LT) R/W LINE

END HEADER CURB CONNECT TO EXIST STA 81+41.42, 40.00' (LT) EL 16.80

+39.44 32.50' (LT)

+27.54 20.50' (LT)

BEGIN HEADER CURB STA 81+21.57, 18.49' (LT) EL 17.25

BEGIN HEADER CURB CONNECT TO EXIST STA 81+65.65, 40.00' (LT) EL 17.10

+67.71 32.50' (LT)

+79.56 20.50' (LT)

END HEADER CURB STA 81+85.56, 18.47' (LT) EL 17.20

+65.18 35.50' (LT)

S-24

S-23

S-22

S-21

78 79 80 81 82

℄ SURVEY OLD GERMANTOWN ROAD

N 68° 35' 32" E

OLD GERMANTOWN ROAD

CONC MEDIAN (TO BE CONSTRUCTED BY OTHERS)

REMOVE EXIST HEADER CURB

END STABILIZED SHOULDER (LT & RT) STA 82+00.00

CONST 4' OF 18" PIPE WITH CONCRETE JACKET CONNECT TO EXISTING PIPE

CONST 10' CONC SUP

CONST 10' CONC SUP

+40.10 26.00' (RT)

+44.45 36.00' (RT)

+74.46 26.00' (RT)

+67.03 36.00' (RT)

REMOVE EXIST CONC SIDEWALK

R/W LINE

+13.58 26.00' (RT)

END 10' SUP BEGIN SUP TRANSITION STA 81+99.03 26.00' (RT)

CLEARING AND GRUBBING (SEE CROSS SECTION)

REMOVE EXIST CONC SIDEWALK

5' CONC SIDEWALK (TO BE CONSTRUCTED BY OTHERS)

CONST 10' CONC SUP

REMOVE EXIST ASPHALT SIDEWALK

EXIST DRIVEWAY (TO BE REMOVED BY OTHERS)

8' CONC SIDEWALK (TO BE CONSTRUCTED BY OTHERS)

REMOVE EXIST ASPHALT SIDEWALK

PARKS AT DELRAY (UNDER CONSTRUCTION)

TWIN-STAR INTERNATIONAL

MATCH LINE STA 77+20.00

40' 2' 12' 9.3' 16.7' 17.9' 5.6' 12' 4.5' 40'

MATCH LINE STA 82+80.00

40' 3' 6' 12.6' 18.4' 18.2' 5.3' 12' 4.5' 40'

0 10 40 Feet

N

LEGEND

- 3" MILLING AND RESURFACING
- 6" CONCRETE SUP
- DETECTABLE WARNING SURFACE
- PROPOSED TANDEM LUMINAIRE INSTALLED BY FPL (SEE EXACT LOCATION SEE FPL PLANS)
- PROPOSED SINGLE LUMINAIRE INSTALLED BY FPL (SEE EXACT LOCATION SEE FPL PLANS)
- EXIST LIGHT POLE TO REMAIN

NOTES

1. CONST 9" THICKENED CONCRETE WHERE CONCRETE ABUTS ASPHALT PER CITY OF DELRAY BEACH DETAIL RT 18.1

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PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:
MAJHARUL ALAM, PE
P.E# 61600

No.	Revisions	By	Date

CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

OLD GERMANTOWN ROAD

ROADWAY PLAN

SHEET: 27
OF: 177

PROJECT NO. 444377-1

AXIS DELRAY BEACH

CLEARING AND GRUBBING
(SEE CROSS SECTION)

+13.70
49.97' (LT)

+11.94
45.28' (LT)

+08.54
51.88' (LT)

+06.80
47.19' (LT)

+01.52
37.72' (LT)

+94.62
36.85' (LT)

+88.24
37.00' (LT)

+59.94
37.00' (LT)

+83.34
32.84' (LT)

END SIDEWALK
CONNECT TO EXSIT SIDEWALK
STA 86+14.69
43.40' (LT)

BEGIN 6' SIDEWALK
STA 84+39.90
35.00' (LT) EXIST PED SIGNAL TO REMAIN

EXIST GUY WIRE TO REMAIN

+40.00
29.00' (LT)

CONST 6' CONC SIDEWALK

+41.02
32.43' (LT)

+50.63
32.32' (LT)

END 6' SIDEWALK
BEGIN SIDEWALK
STA 85+31.54
30.53' (LT)

BEGIN 3' VERTICAL TRANSITION
FROM 0' FULL HEIGHT CURB TO
84+40.00, 25.09' (LT)

BEGIN 3' VERTICAL TRANSITION
FROM FULL HEIGHT CURB TO 0'
83+96.96, 22.76' (LT)

R/W LINE

+72.25
35.50' (LT)

EXIST SIDEWALK
(TO REMAIN)

STA 86+14.20
39.92' (LT)

R/W LINE

CR-L MOD

+93.15
34.61' (LT)

+93.48
32.53' (LT)

+88.85
34.17' (LT)

END B SURVEY OLD GERMANTOWN ROAD
STA 86+53.00

END TYPE D CURB
CONNECT TO EXIST
85+41.12, 32.37' (LT)

BEGIN TYPE D CURB
83+03.52, 18.50' (LT)

83 84 85 86

CONST CONC SIDEWALK
N 68° 35' 32" E

OLD GERMANTOWN ROAD

EXIST CURB INLET
(TO REMAIN)

+83.33
32.20' (LT)

EXIST CURB AND GUTTER
TO REMAIN

CURB AND GUTTER
(TO BE CONSTRUCTED BY OTHERS)

MATCH LINE STA 82+80.00

40'
3' 6' 12.6' 18.4' 5.3' 12' 4.5'
40'

EXIST MH
(TO REMAIN)

+83.27
31.93' (RT)

R/W LINE

EXIST CURB INLET
(TO REMAIN)

END TRANSITION
END SUP
(CONNECT TO EXIST SIDEWALK)
STA 82+83.27 36.93' (RT)

5' CONC SIDEWALK
(TO BE CONSTRUCTED BY OTHERS)

CLEARING AND GRUBBING
(SEE CROSS SECTION)

SOUTH CONGRESS AVE

END PROJECT
B SURVEY OLD GERMANTOWN ROAD
STA 86+16.20

0 10 40
Feet

LEGEND

3" MILLING AND RESURFACING

6" CONCRETE SUP

4" CONCRETE SIDEWALK

PROPOSED SINGLE LUMINAIRE INSTALLED BY FPL
(SEE EXACT LOCATION SEE FPL PLANS)

EXIST LIGHT POLE TO REMAIN

MY WIGS BOUTIQUE BY HAIRCLUB

WIDENING

US CLAIMS

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PHONE (561) 866-5730

Seal:
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P.E# 61600

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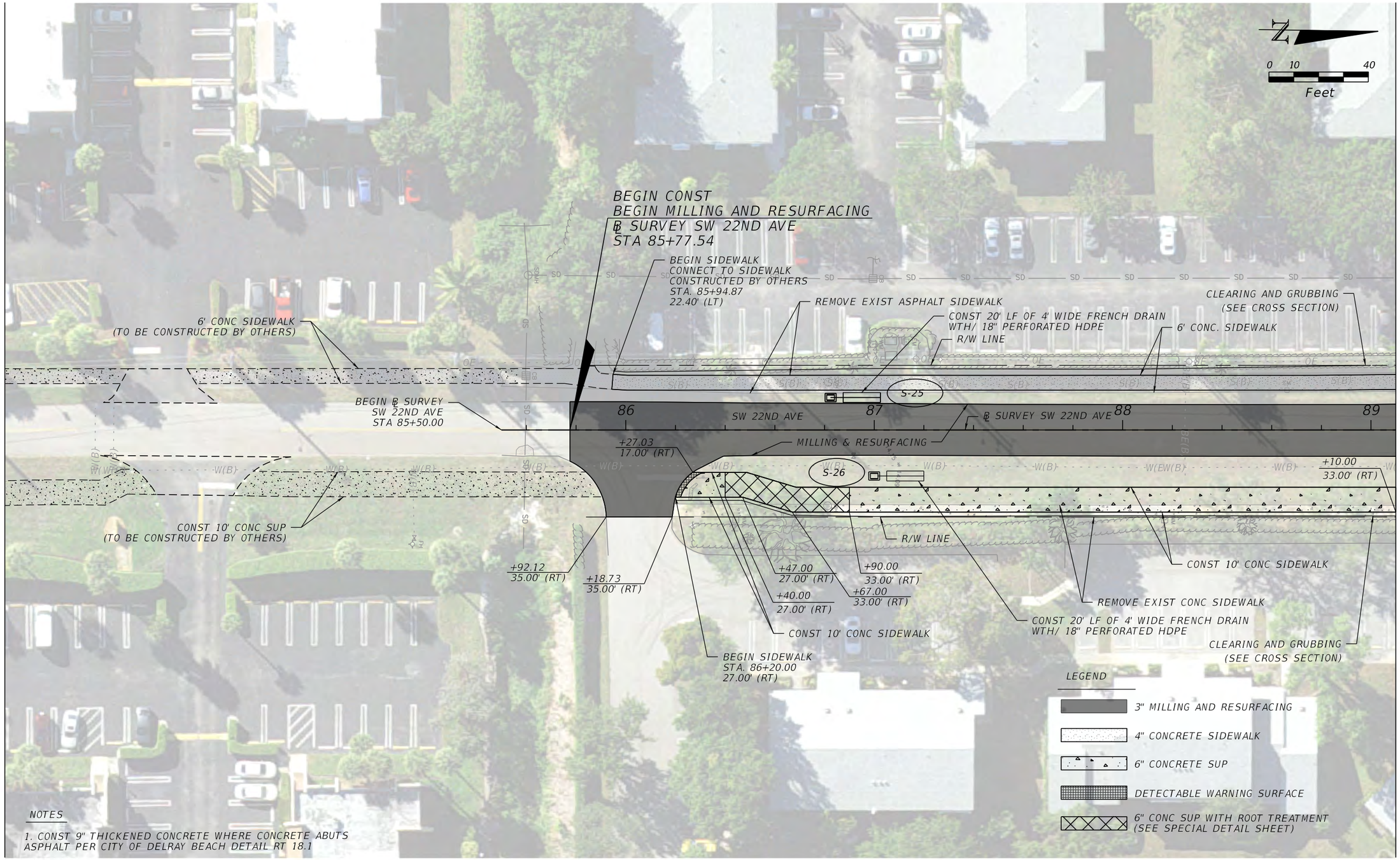
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434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
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OLD GERMANTOWN ROAD

ROADWAY PLAN

SHEET: 28
OF: 177

PROJECT NO.
444377-1



NOTES

1. CONST 9" THICKENED CONCRETE WHERE CONCRETE ABUTS ASPHALT PER CITY OF DELRAY BEACH DETAIL RT 18.1

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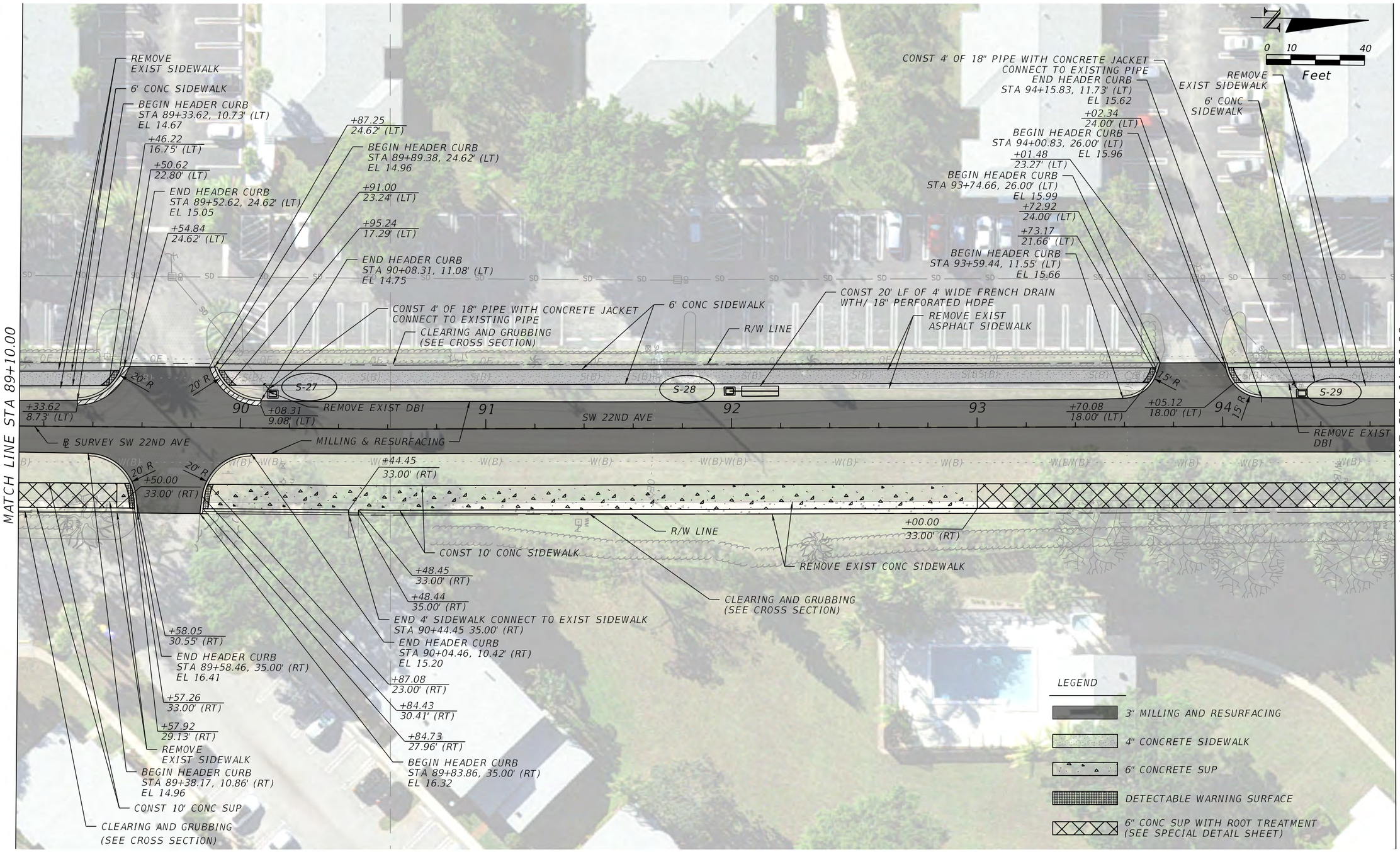
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SW 22ND AVE

ROADWAY PLAN

SHEET: 29
OF: 177

PROJECT NO.
444377-1



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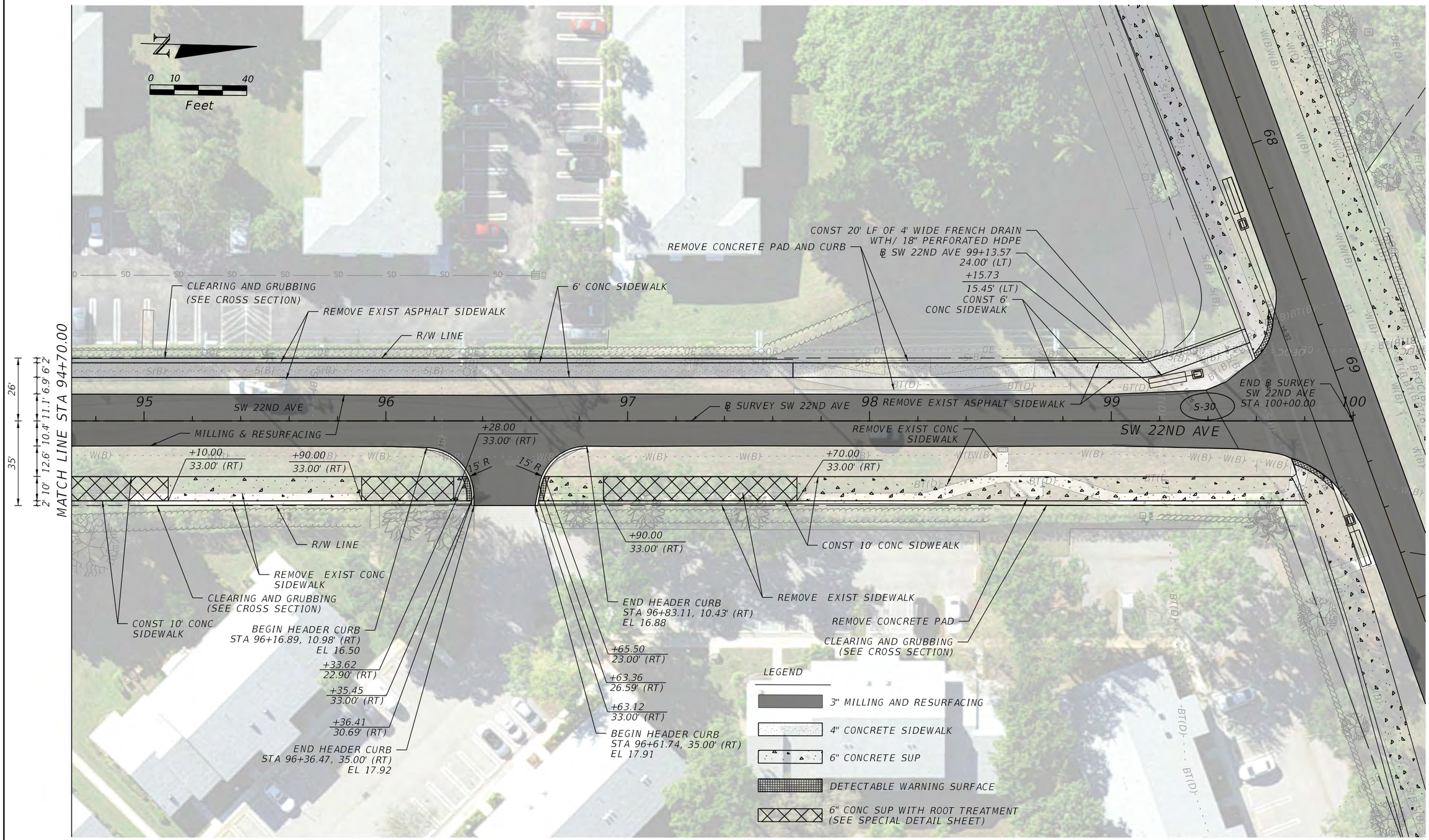
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SW 22ND AVE

ROADWAY PLAN

SHEET: 30
OF: 177
PROJECT NO. 444377-1

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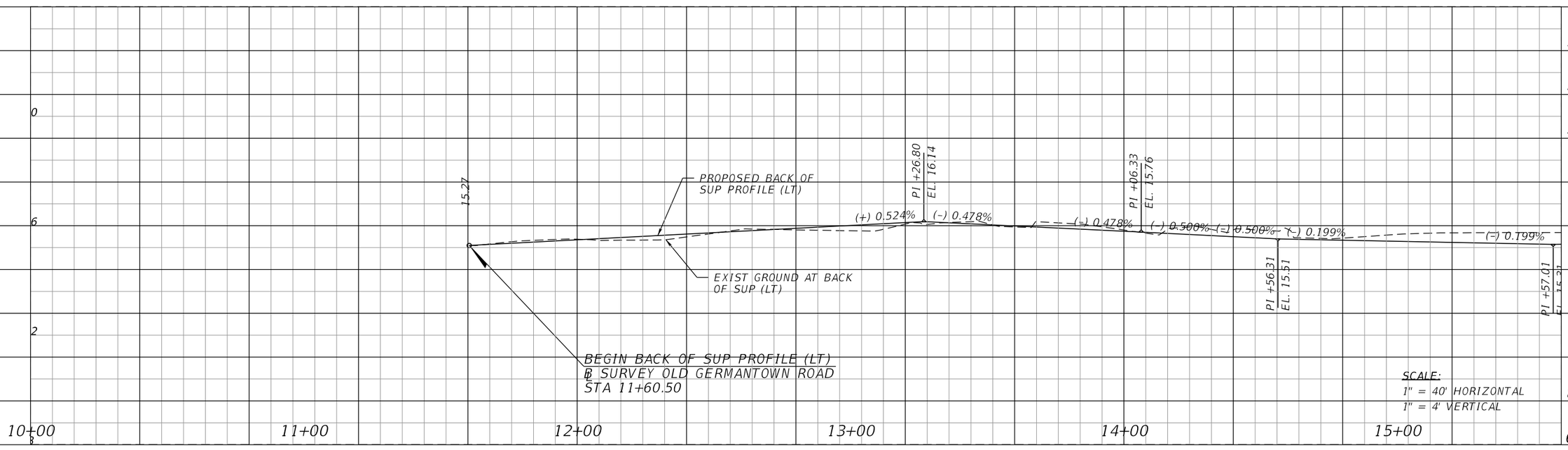
SW 22ND AVE

ROADWAY PLAN

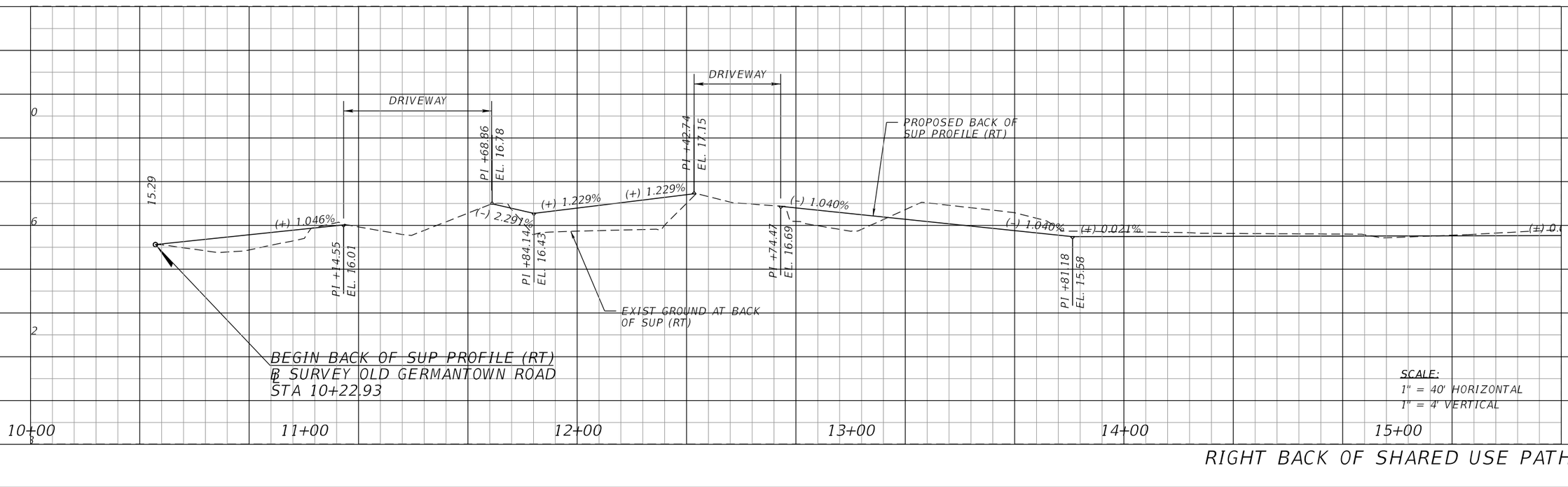
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OF: 177
PROJECT NO. 444377-1

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LEFT BACK OF SHARED USE PATH



RIGHT BACK OF SHARED USE PATH

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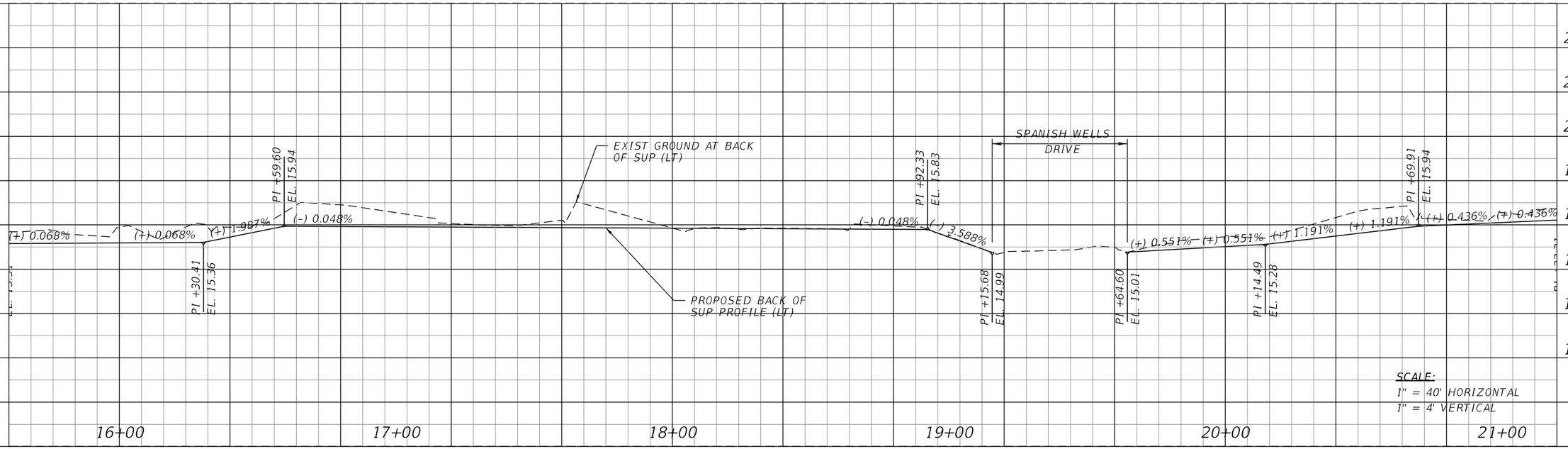
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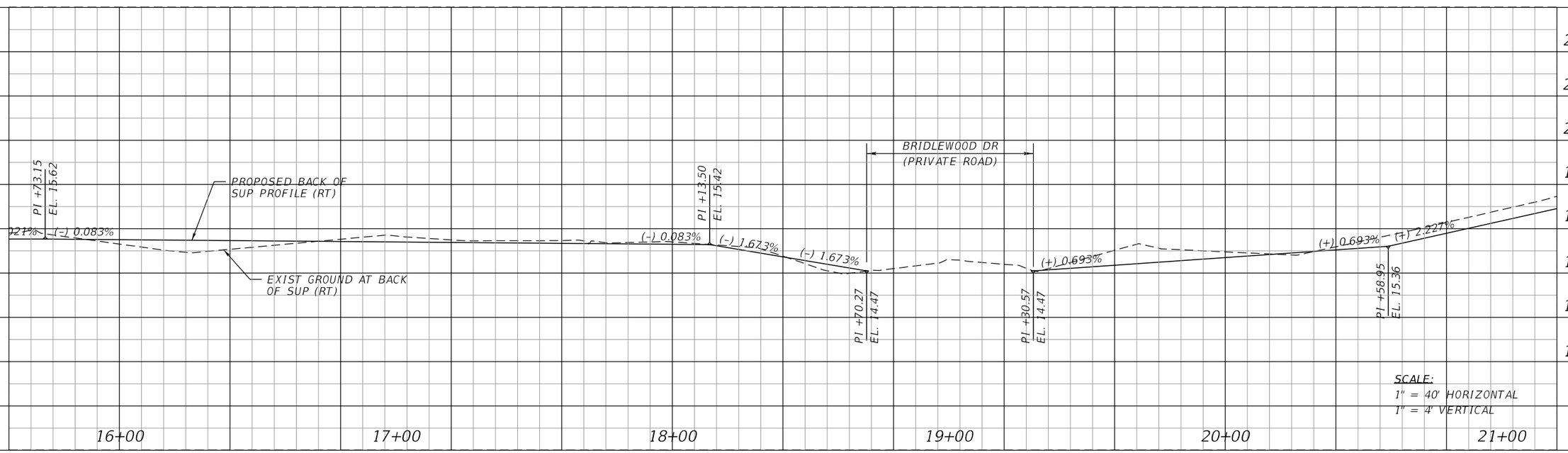
OLD GERMANTOWN ROAD

SHARED USE PATH PROFILE

SHEET: 32
OF: 177
PROJECT NO. 444377-1



LEFT BACK OF SHARED USE PATH



RIGHT BACK OF SHARED USE PATH

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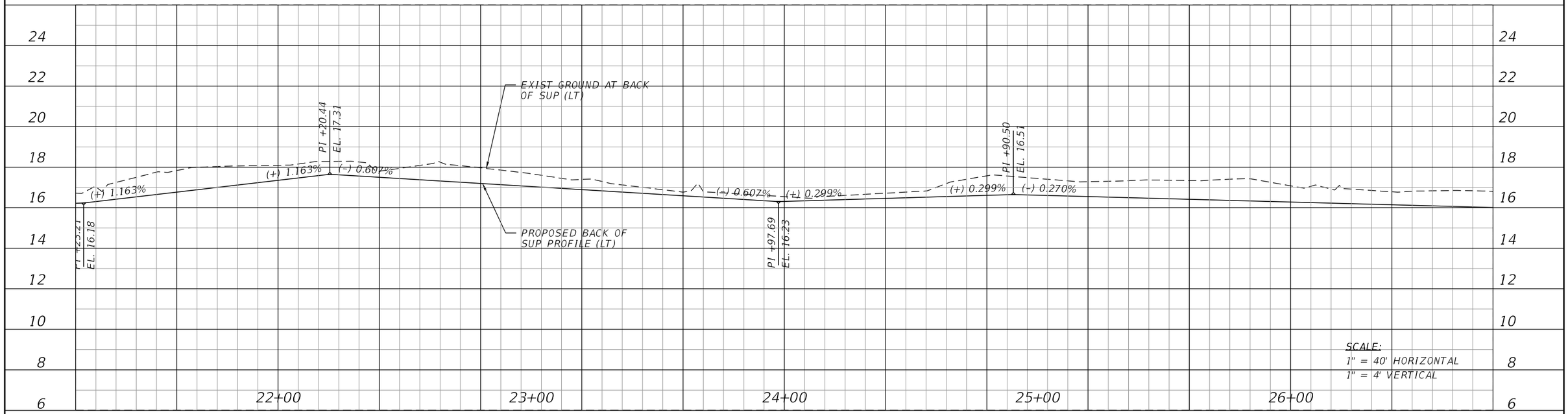
OLD GERMANTOWN ROAD

SHARED USE PATH PROFILE

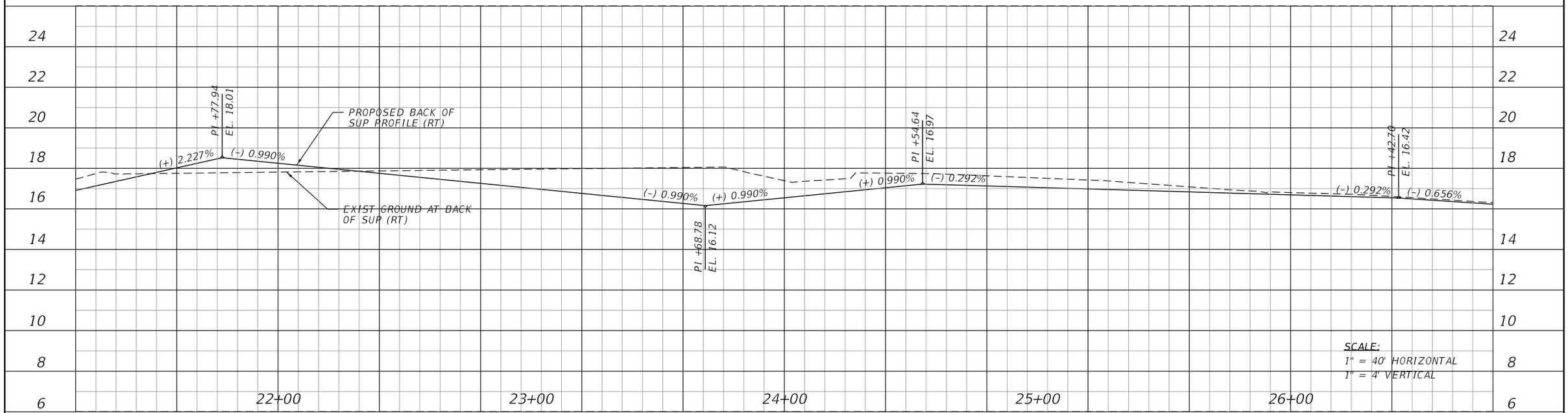
SHEET: 33
OF: 177
PROJECT NO. 444377-1

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LEFT BACK OF SHARED USE PATH



RIGHT BACK OF SHARED USE PATH

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MAJHARUL ALAM, PE
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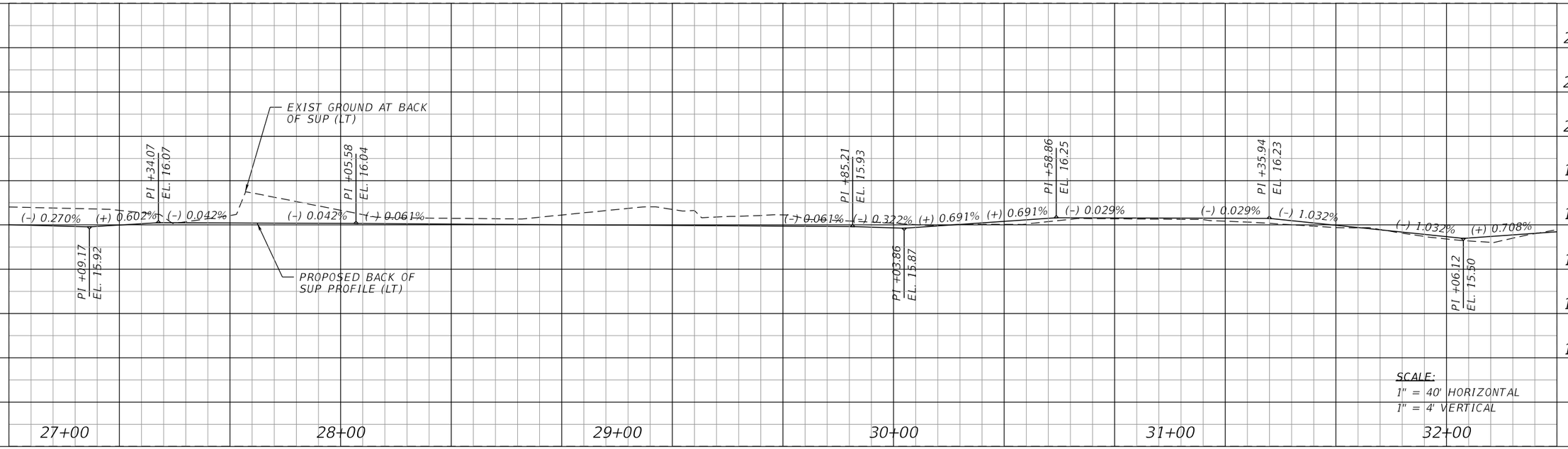
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OLD GERMANTOWN ROAD

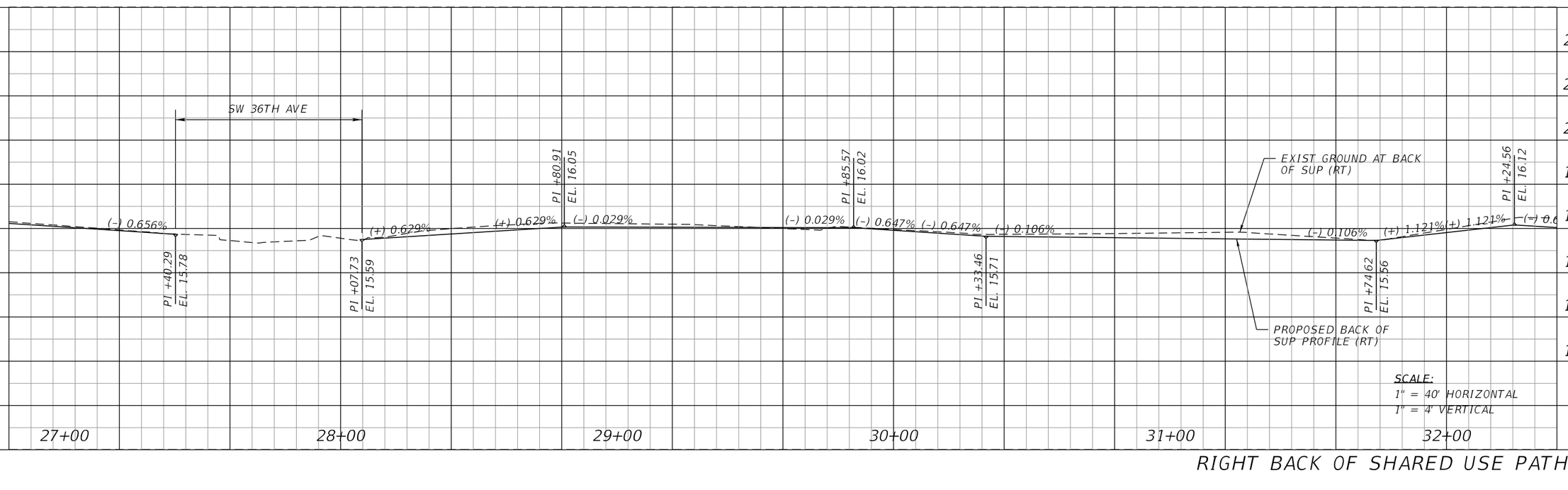
SHARED USE PATH PROFILE

SHEET: 34
OF: 177
PROJECT NO. 444377-1

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LEFT BACK OF SHARED USE PATH



RIGHT BACK OF SHARED USE PATH

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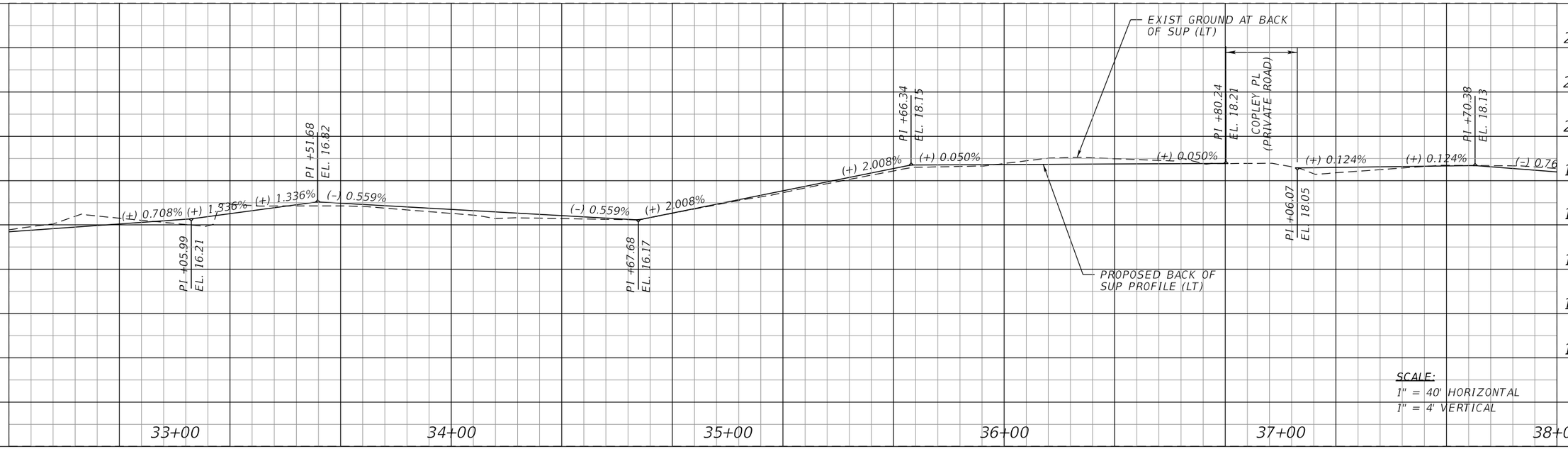
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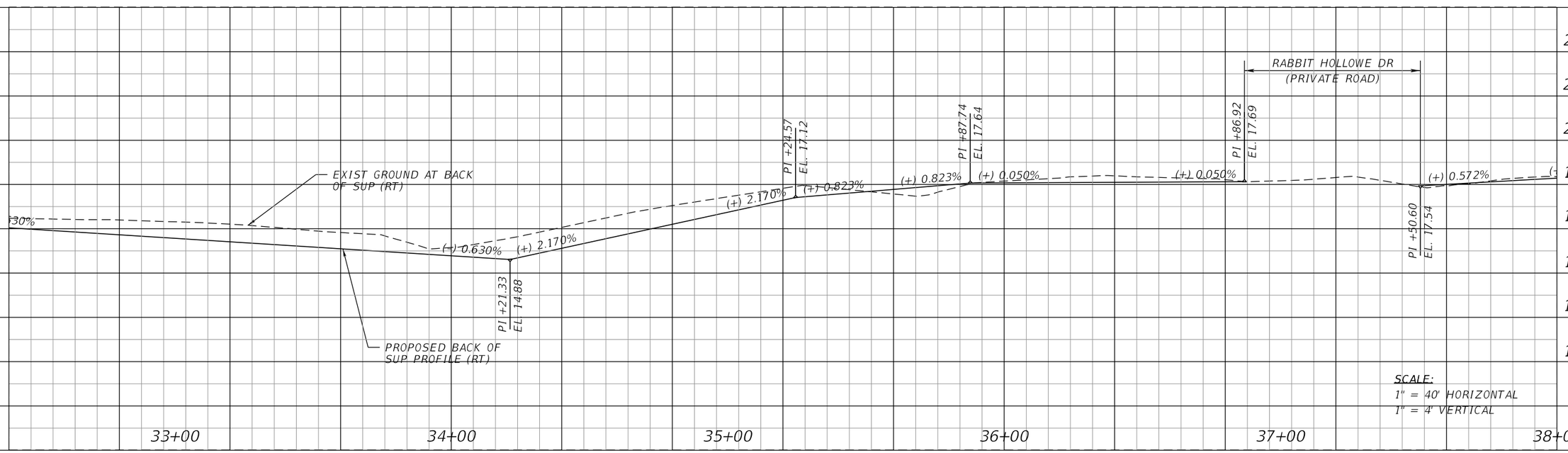
OLD GERMANTOWN ROAD

SHARED USE PATH PROFILE

SHEET: 35
OF: 177
PROJECT NO. 444377-1



LEFT BACK OF SHARED USE PATH



RIGHT BACK OF SHARED USE PATH

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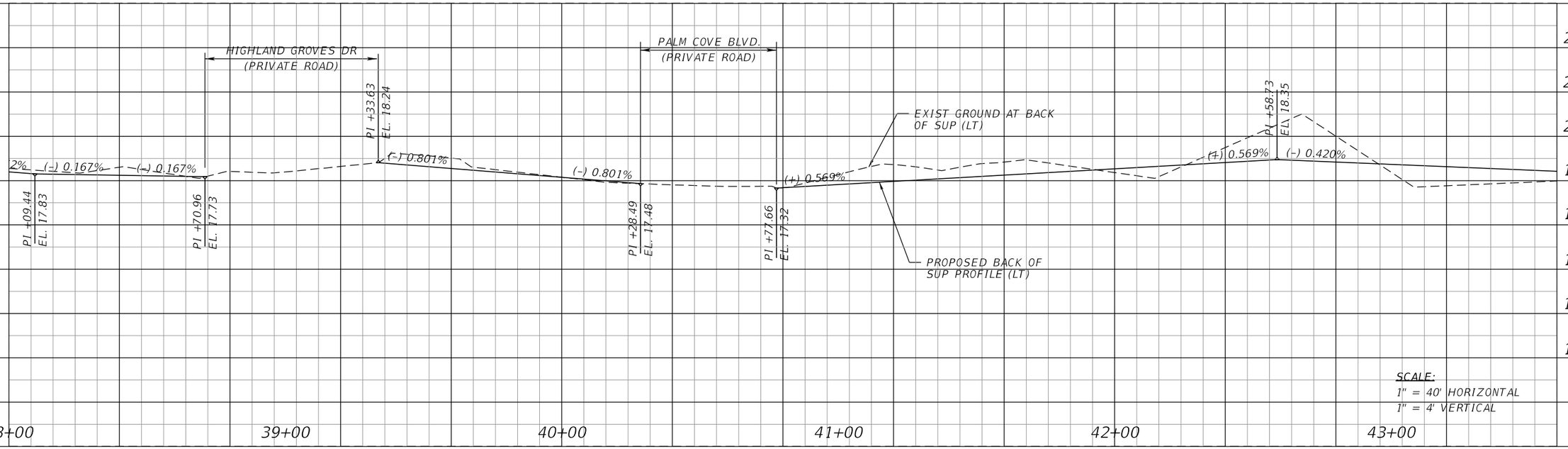
OLD GERMANTOWN ROAD

SHARED USE PATH PROFILE

SHEET: 36
OF: 177
PROJECT NO. 444377-1

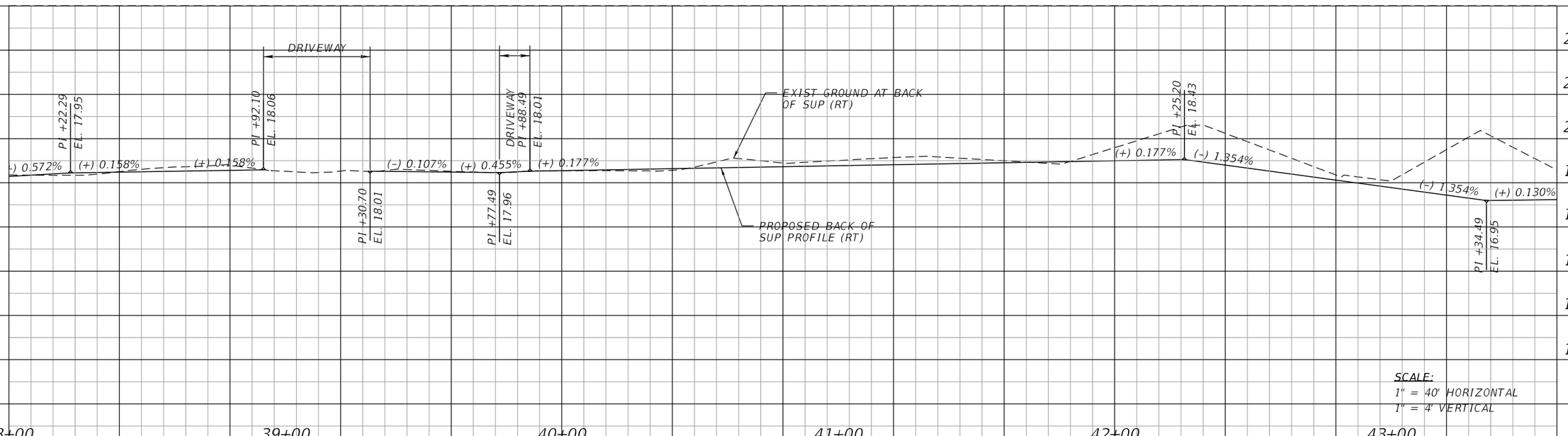
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SCALE:
1" = 40' HORIZONTAL
1" = 4' VERTICAL

LEFT BACK OF SHARED USE PATH



SCALE:
1" = 40' HORIZONTAL
1" = 4' VERTICAL

RIGHT BACK OF SHARED USE PATH

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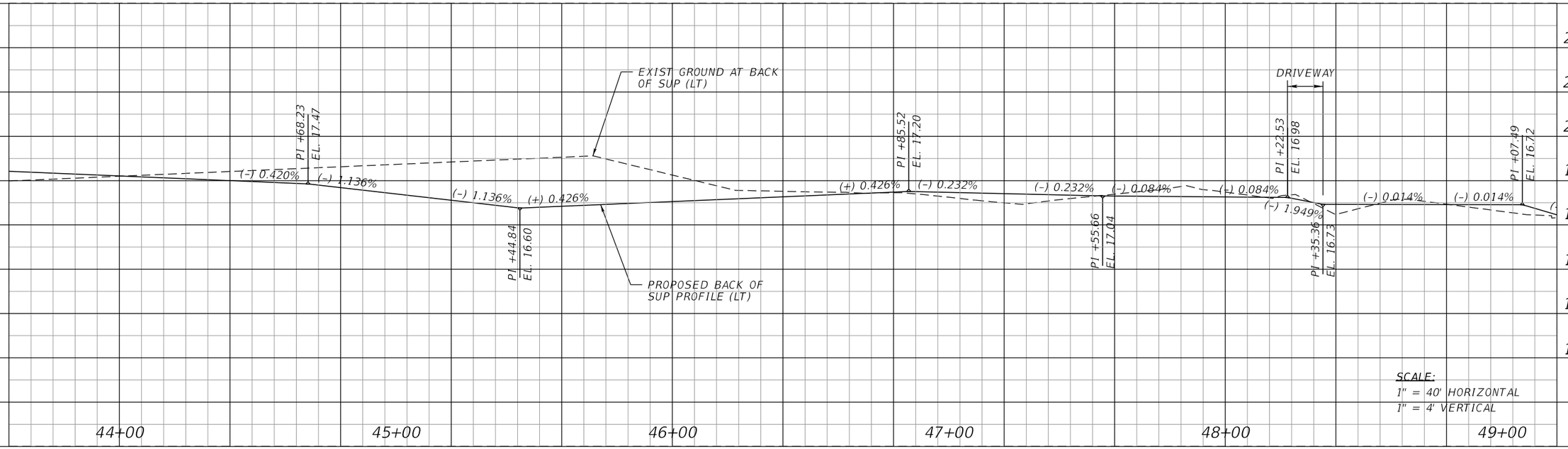
CITY of DELRAY BEACH
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OLD GERMANTOWN ROAD

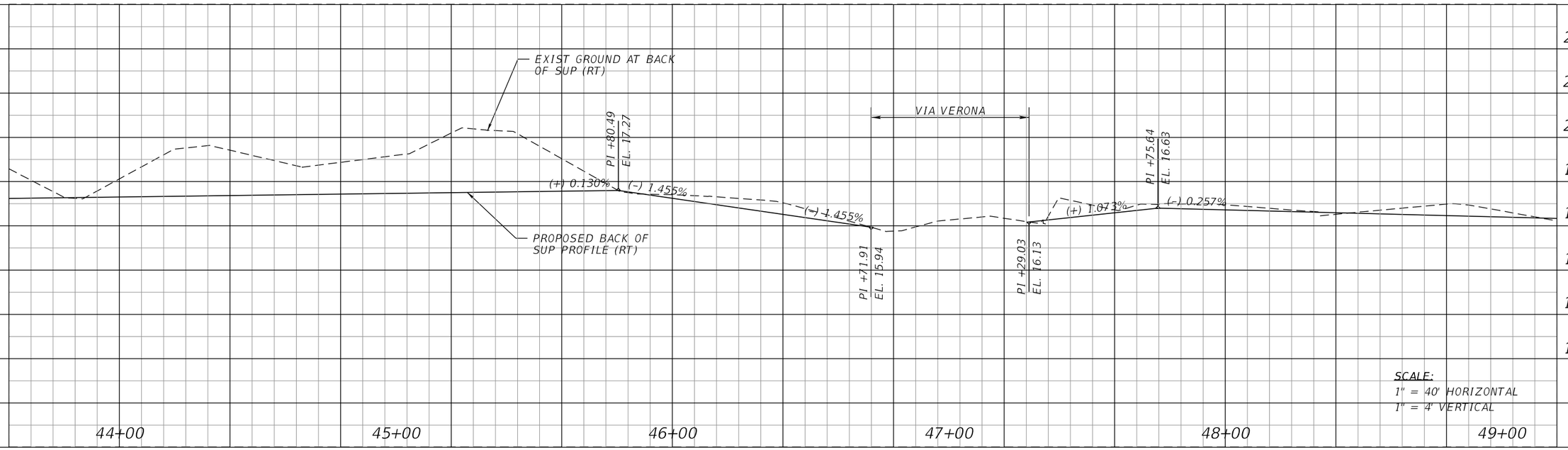
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LEFT BACK OF SHARED USE PATH



RIGHT BACK OF SHARED USE PATH

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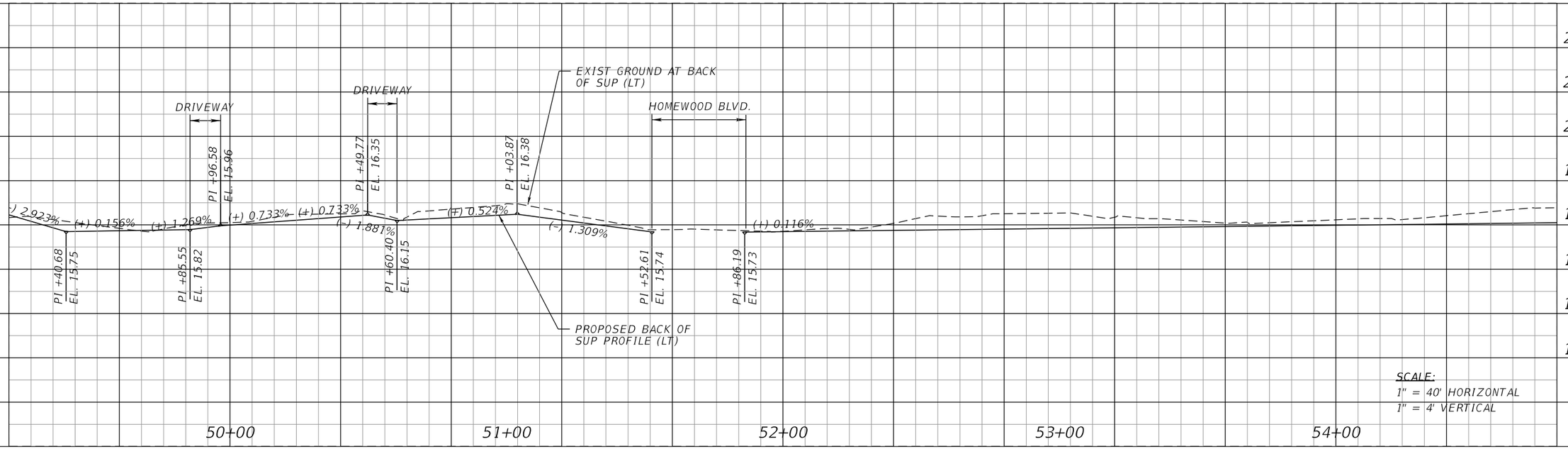
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CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

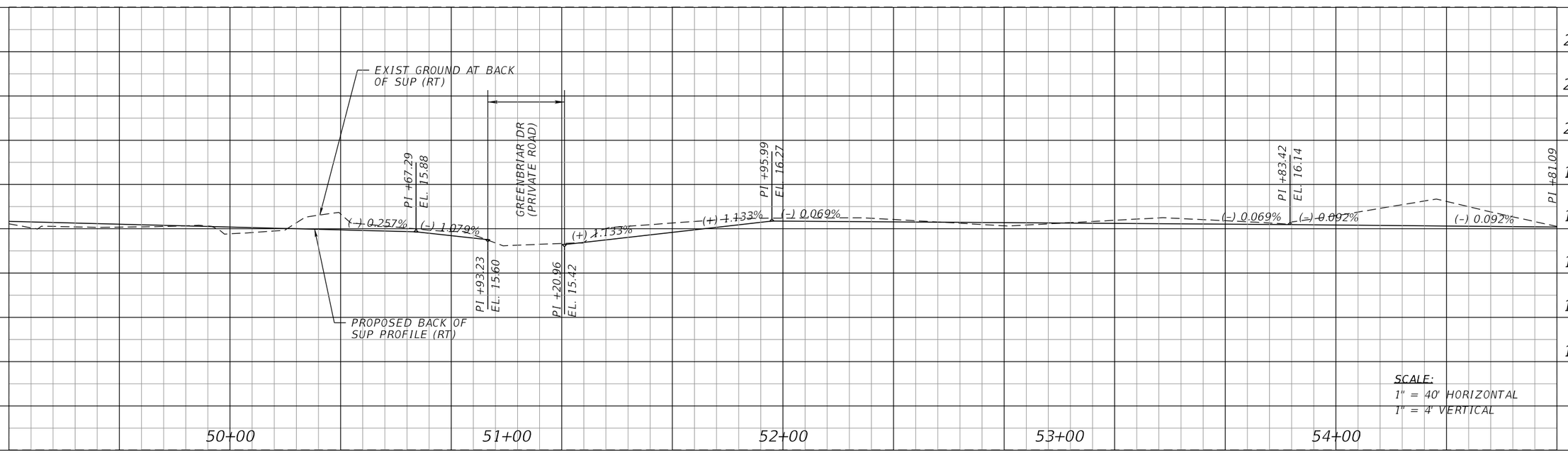
OLD GERMANTOWN ROAD

SHARED USE PATH PROFILE

SHEET: 38
OF: 177
PROJECT NO. 444377-1



LEFT BACK OF SHARED USE PATH



RIGHT BACK OF SHARED USE PATH

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PROPEL

PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:

MAJHARUL ALAM, PE
P.E# 61600

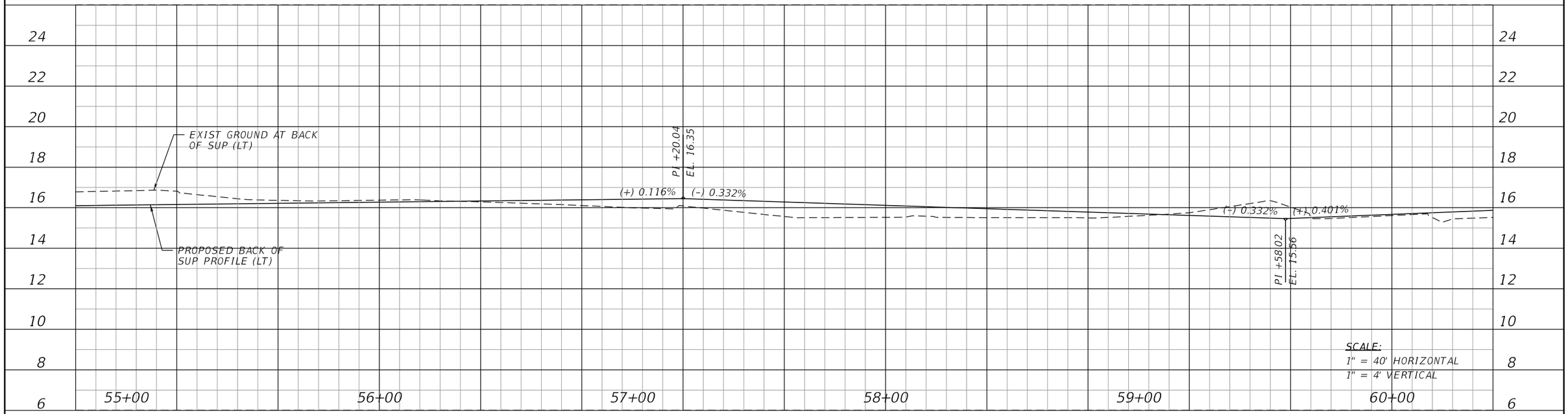
No.	Revisions	By	Date

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PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

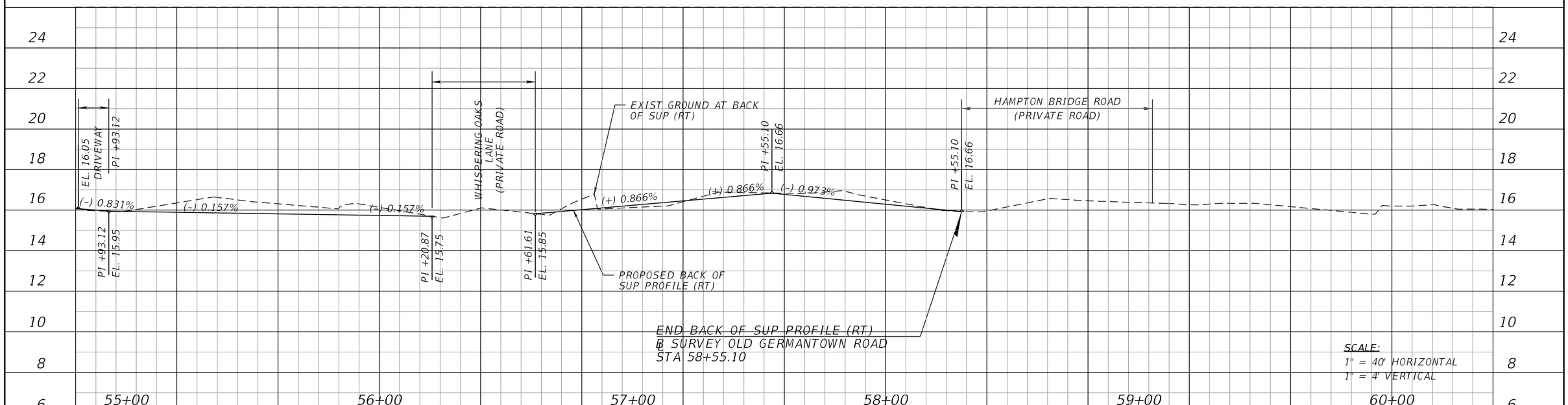
OLD GERMANTOWN ROAD

SHARED USE PATH PROFILE

SHEET: 39
OF: 177
PROJECT NO. 444377-1



LEFT BACK OF SHARED USE PATH



RIGHT BACK OF SHARED USE PATH

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PROPEL

PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
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FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:

MAJHARUL ALAM, PE
P.E.# 61600

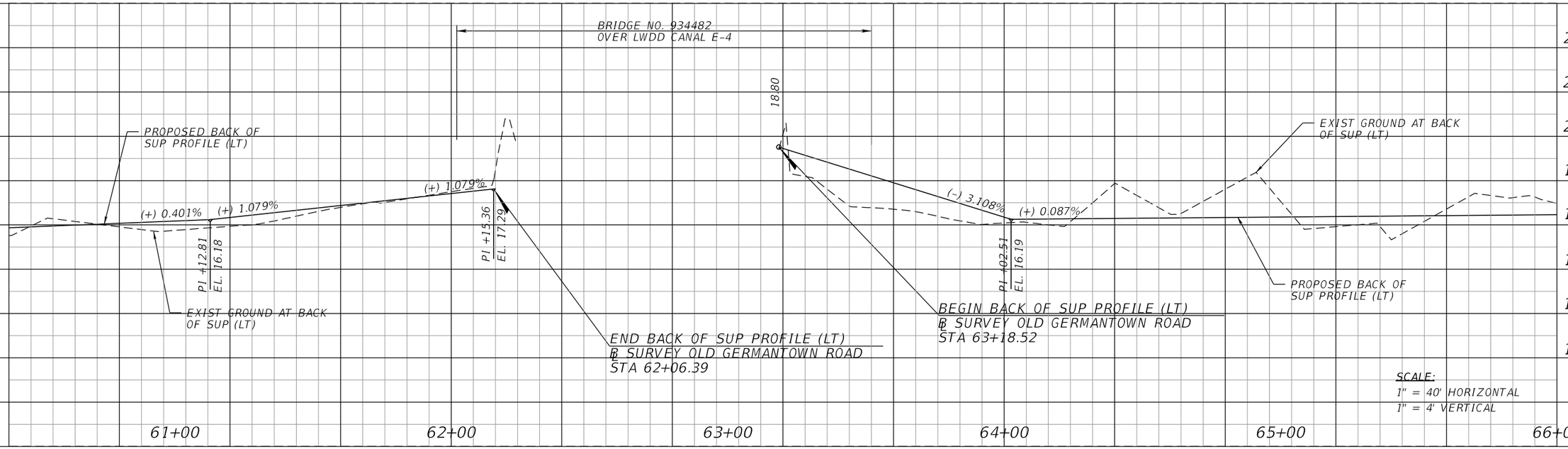
No.	Revisions	By	Date

CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

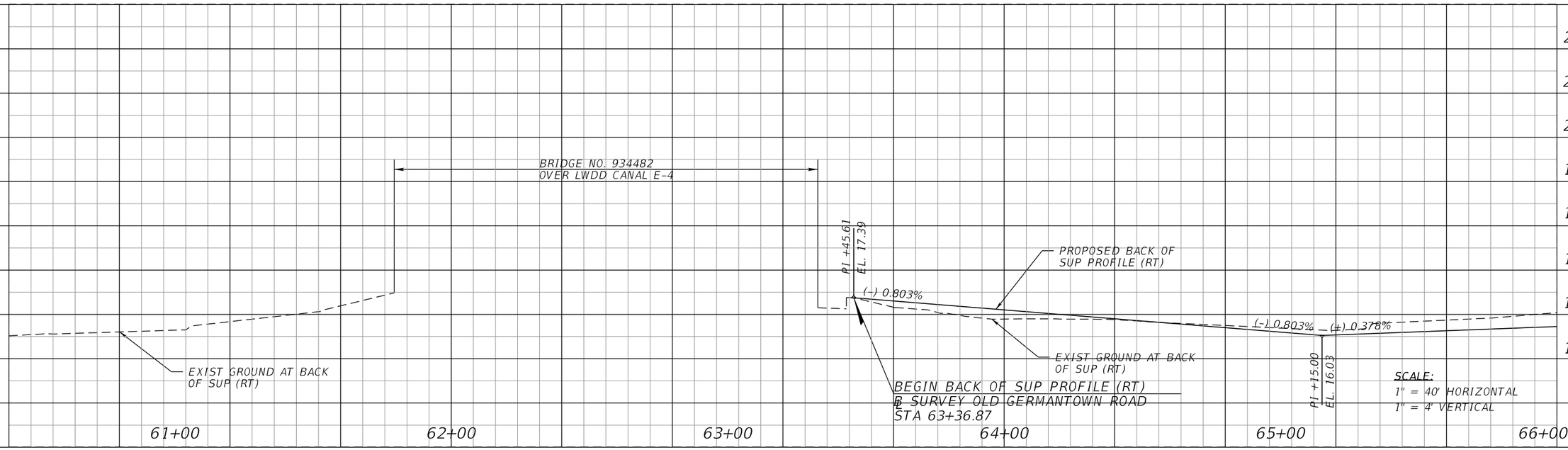
OLD GERMANTOWN ROAD

SHARED USE PATH PROFILE

SHEET: 40
OF: 177
PROJECT NO. 444377-1



LEFT BACK OF SHARED USE PATH



RIGHT BACK OF SHARED USE PATH

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PROPEL

PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:

MAJHARUL ALAM, PE
P.E# 61600

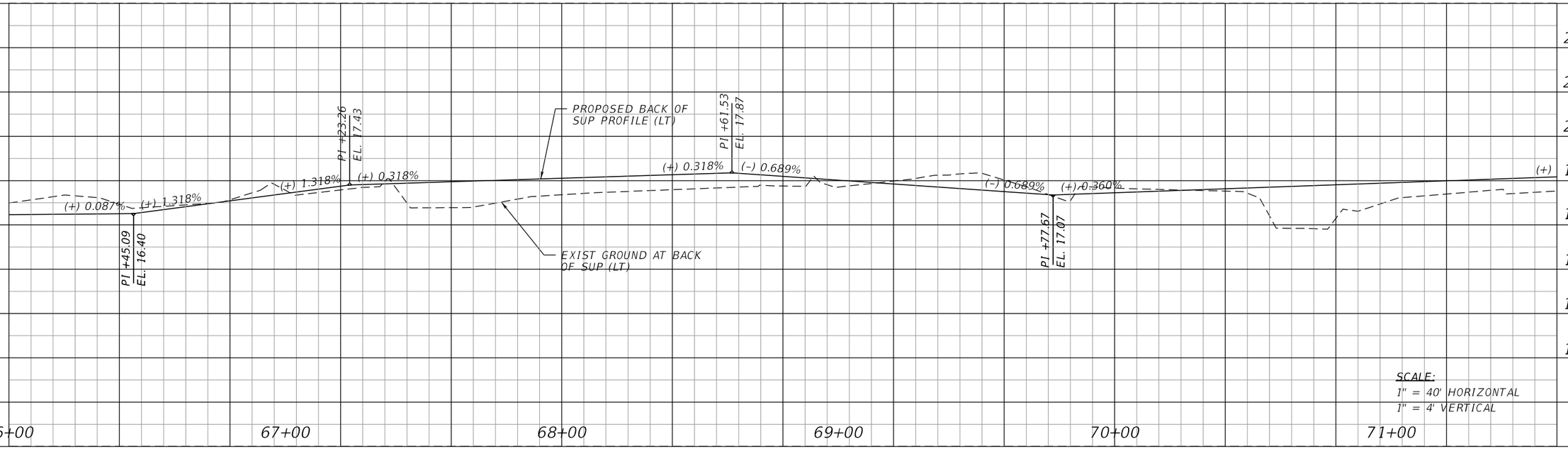
No.	Revisions	By	Date

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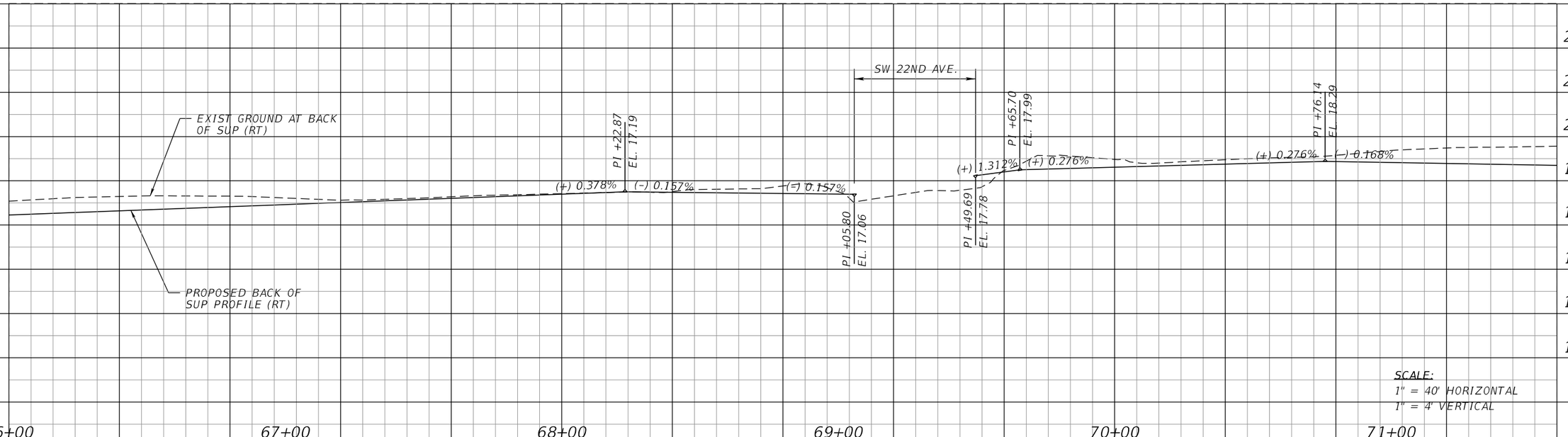
OLD GERMANTOWN ROAD

SHARED USE PATH PROFILE

SHEET: 41
OF: 177
PROJECT NO. 444377-1



LEFT BACK OF SHARED USE PATH



RIGHT BACK OF SHARED USE PATH

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PROPEL

PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:

MAJHARUL ALAM, PE
P.E# 61600

No.	Revisions	By	Date

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PUBLIC WORKS DEPARTMENT
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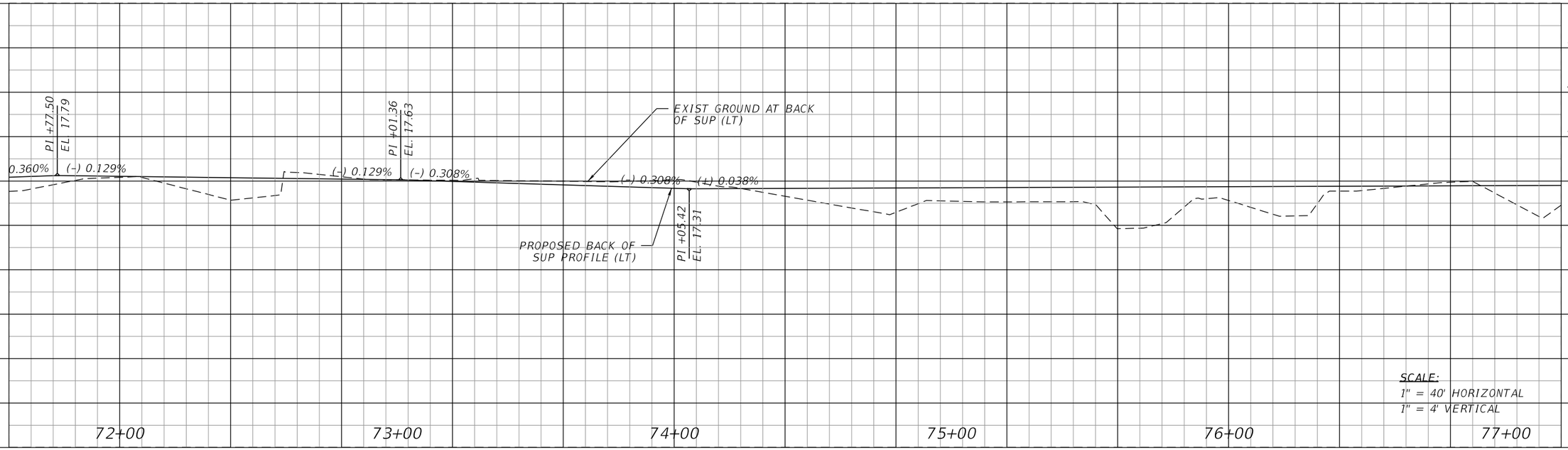
OLD GERMANTOWN ROAD

SHARED USE PATH PROFILE

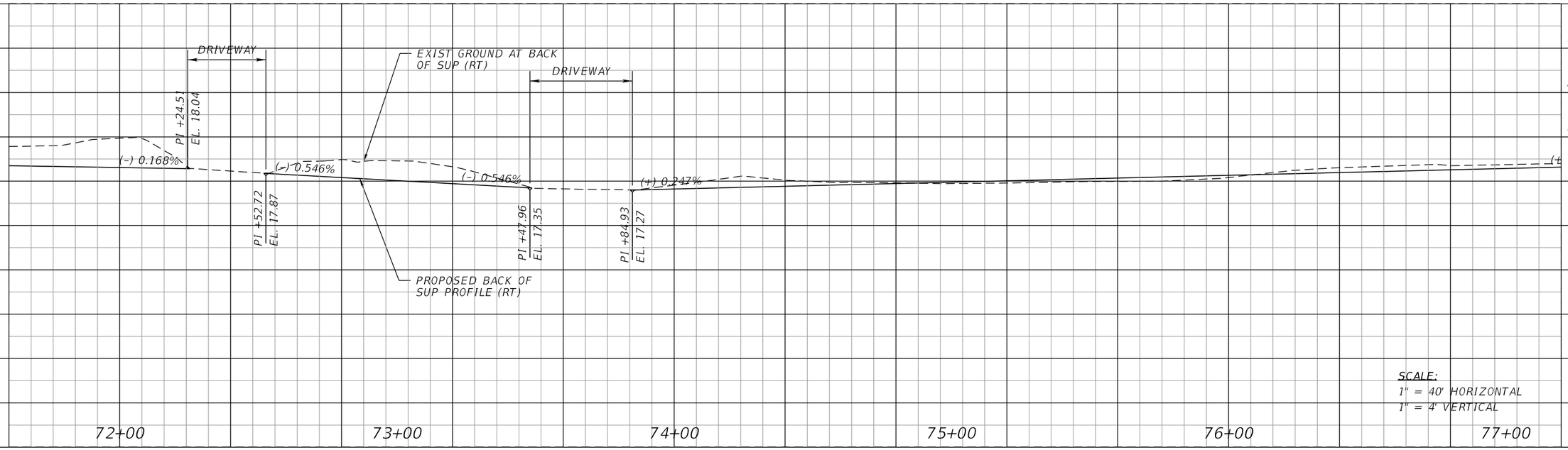
SHEET: 42
OF: 177
PROJECT NO. 444377-1

S:\2240010200-Germantown_Complete_St\44437715801\roadway\PROFRD11.dgn

Zesheng Zhang 3/1/2024 1:46:38 PM



LEFT BACK OF SHARED USE PATH



RIGHT BACK OF SHARED USE PATH

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2711 N VISTA PARKWAY, SUITE NO. B7
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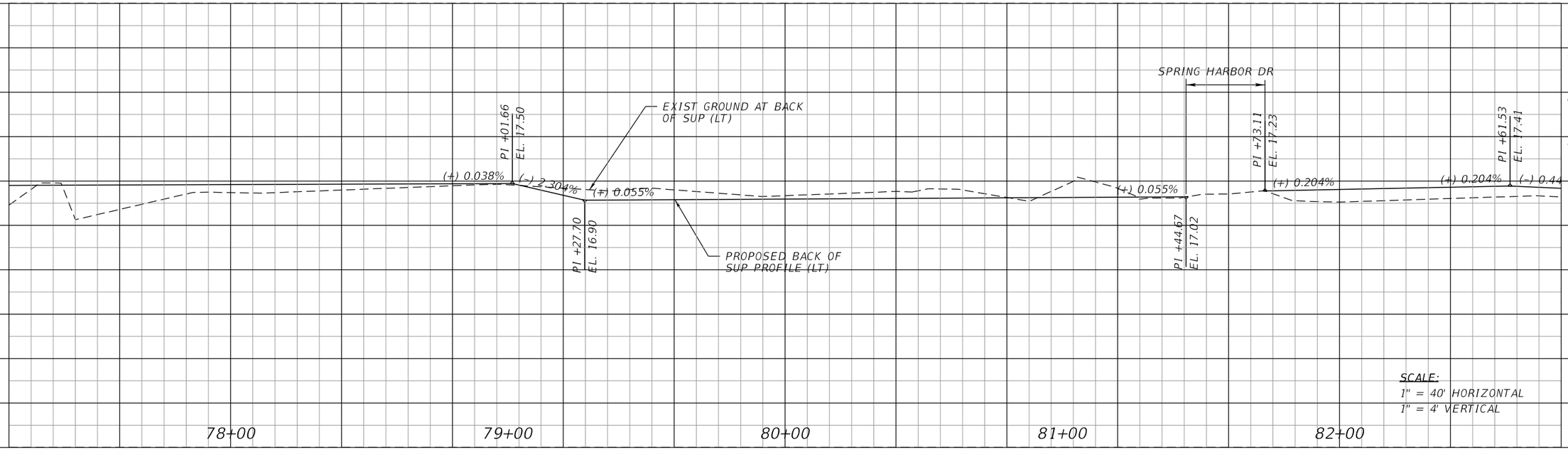
Seal:
MAJHARUL ALAM, PE
P.E# 61600

No.	Revisions	By	Date

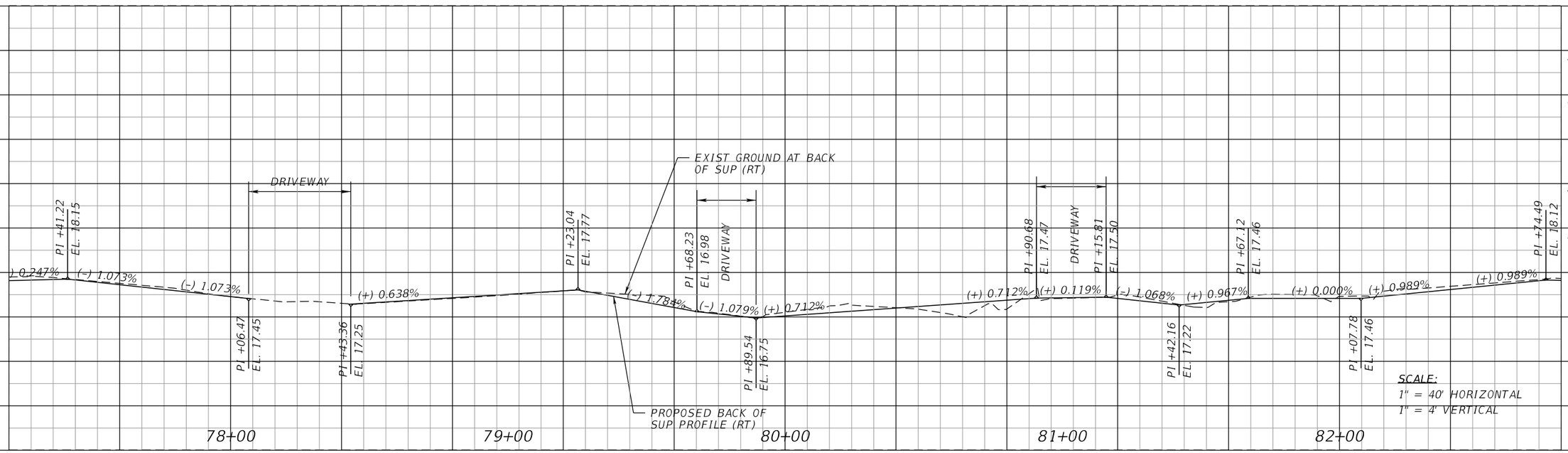
CITY of DELRAY BEACH
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OLD GERMANTOWN ROAD
SHARED USE PATH PROFILE

SHEET: 43
OF: 177
PROJECT NO. 444377-1



LEFT BACK OF SHARED USE PATH



RIGHT BACK OF SHARED USE PATH

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PROPEL

PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:

MAJHARUL ALAM, PE
P.E# 61600

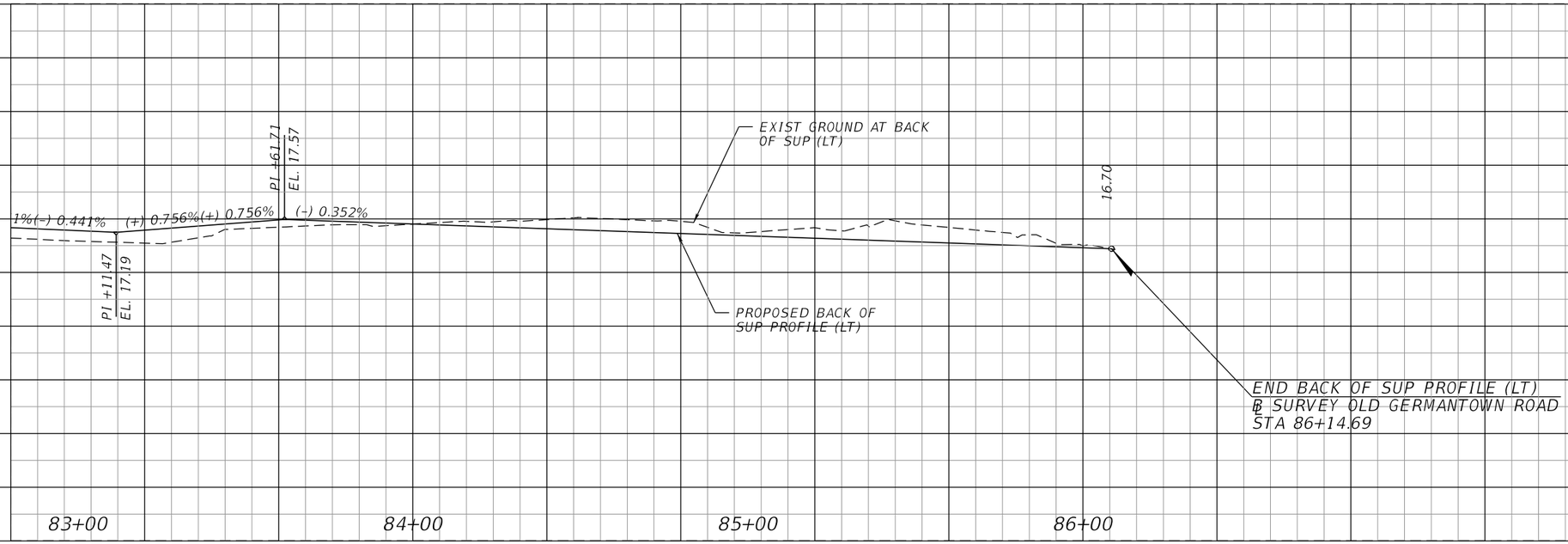
No.	Revisions	By	Date

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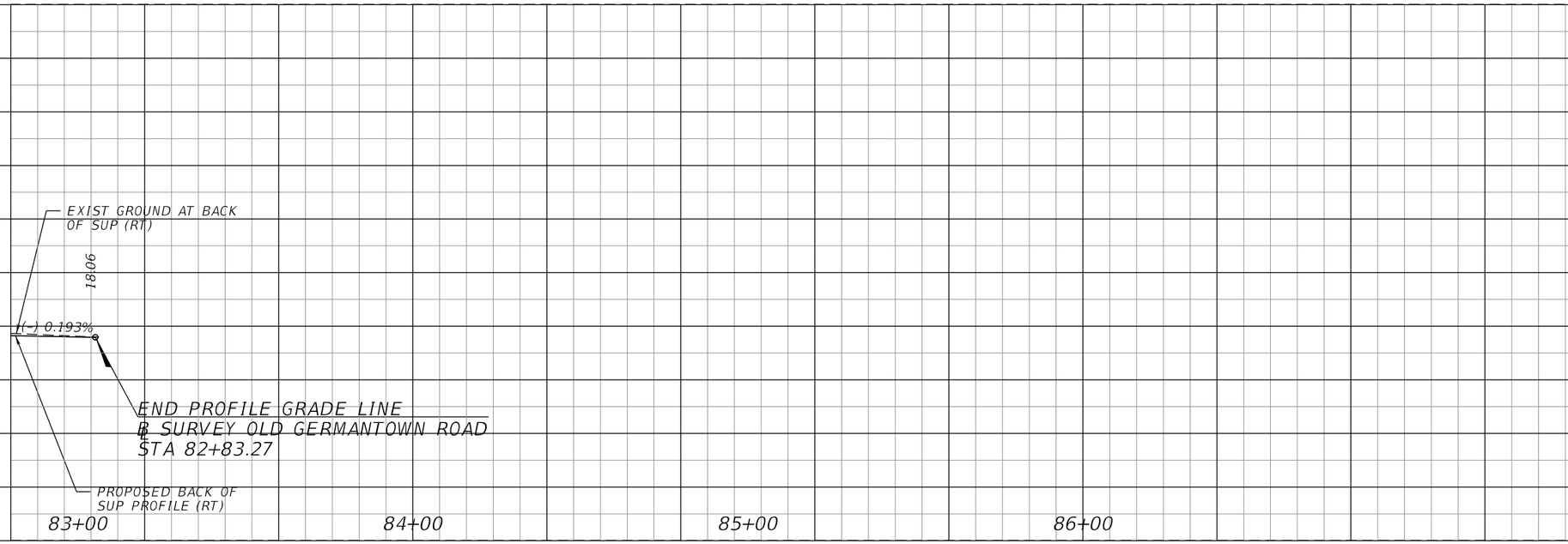
OLD GERMANTOWN ROAD

SHARED USE PATH PROFILE

SHEET: 44
OF: 177
PROJECT NO. 444377-1



LEFT BACK OF SHARED USE PATH



RIGHT BACK OF SHARED USE PATH

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PROPEL

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FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:

MAJHARUL ALAM, PE
P.E# 61600

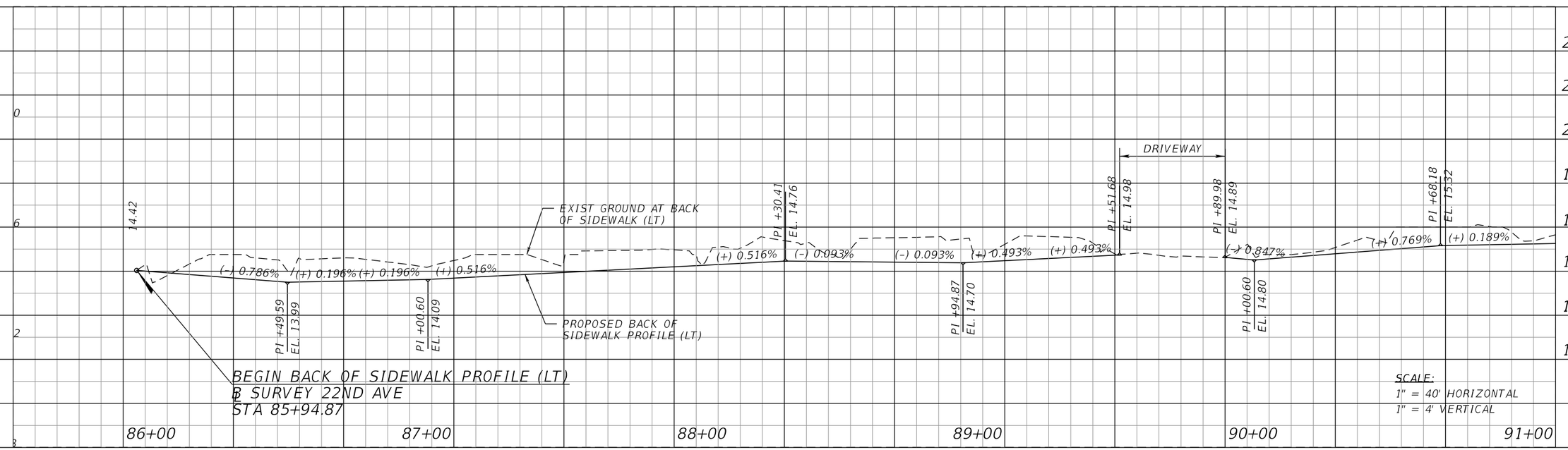
No.	Revisions	By	Date

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Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

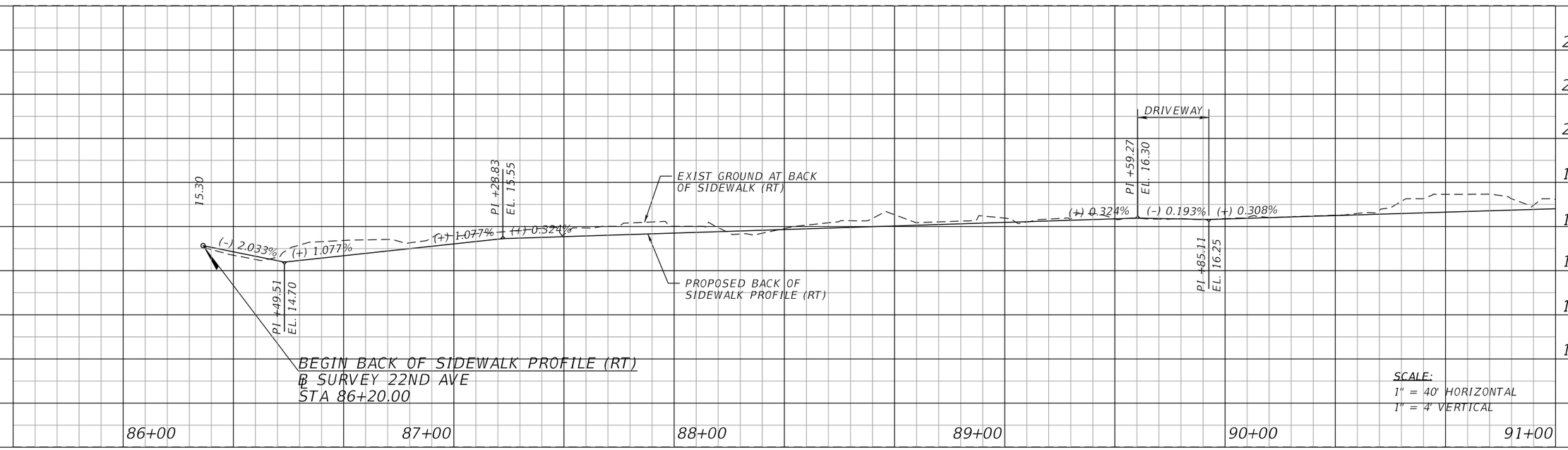
OLD GERMANTOWN ROAD

SHARED USE PATH PROFILE

SHEET: 45
OF: 177
PROJECT NO. 444377-1



LEFT BACK OF SIDEWALK



RIGHT BACK OF SIDEWALK

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PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:
MAJHARUL ALAM, PE
P.E# 61600

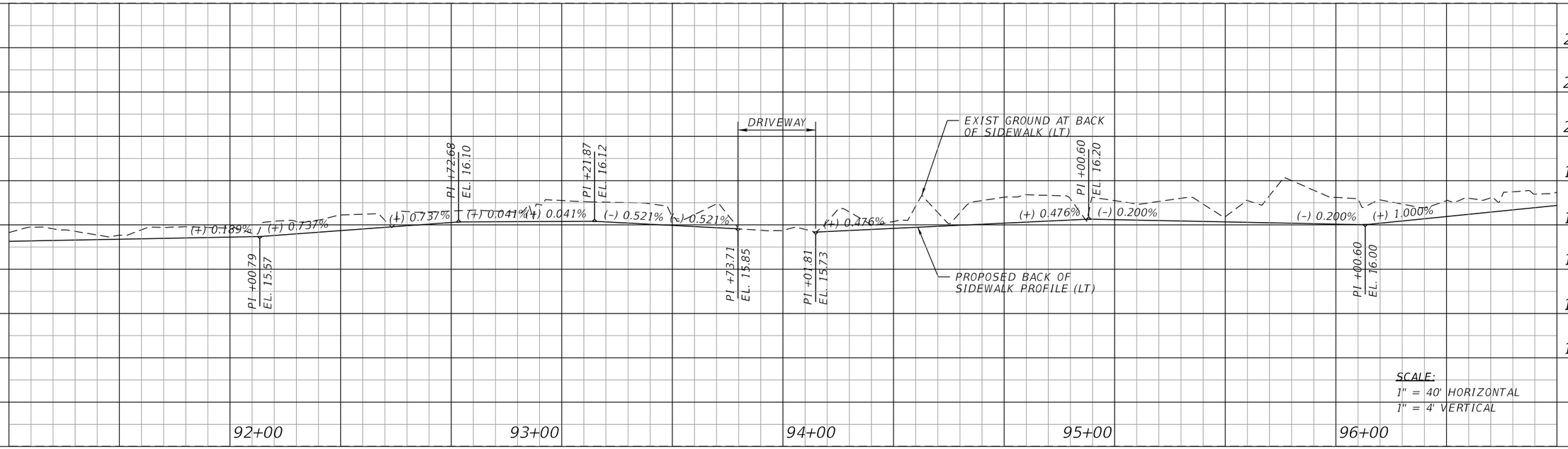
No.	Revisions	By	Date

CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

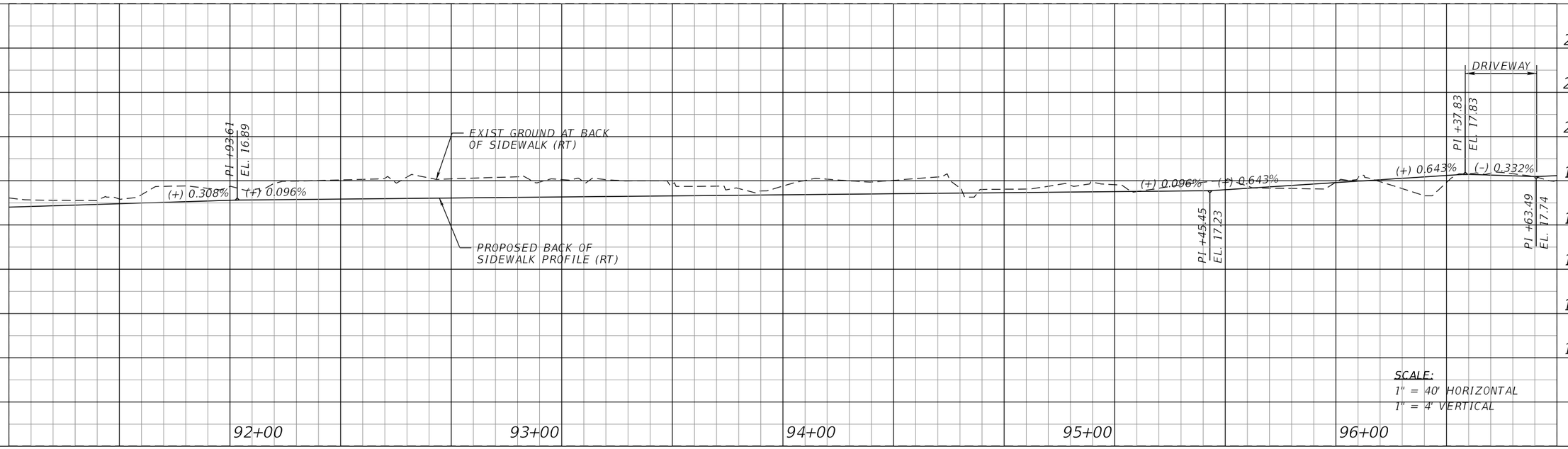
SW 22ND AVE

SHARED USE PATH PROFILE

SHEET: 46
OF: 177
PROJECT NO. 444377-1



LEFT BACK OF SIDEWALK



RIGHT BACK OF SIDEWALK

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PROPEL

PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:

MAJHARUL ALAM, PE
P.E# 61600

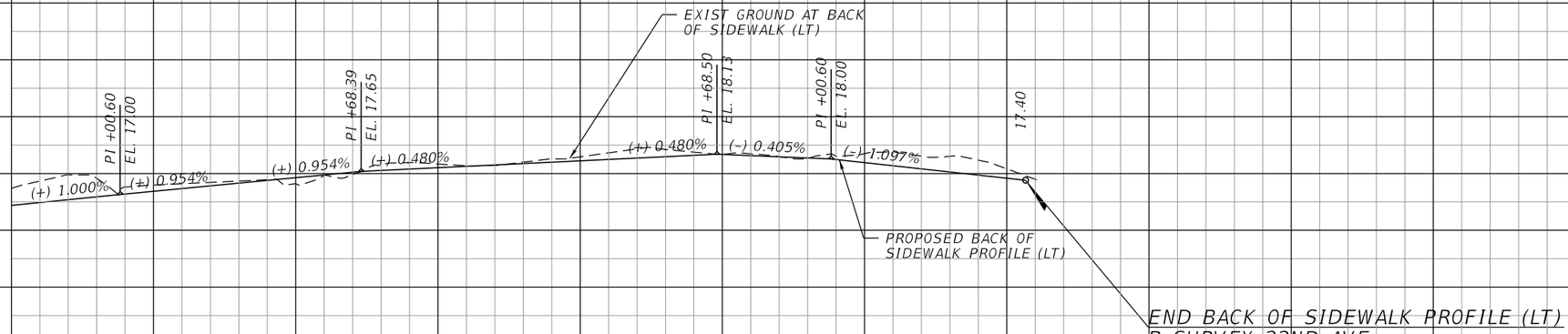
No.	Revisions	By	Date

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PUBLIC WORKS DEPARTMENT
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Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

SW 22ND AVE

SHARED USE PATH PROFILE

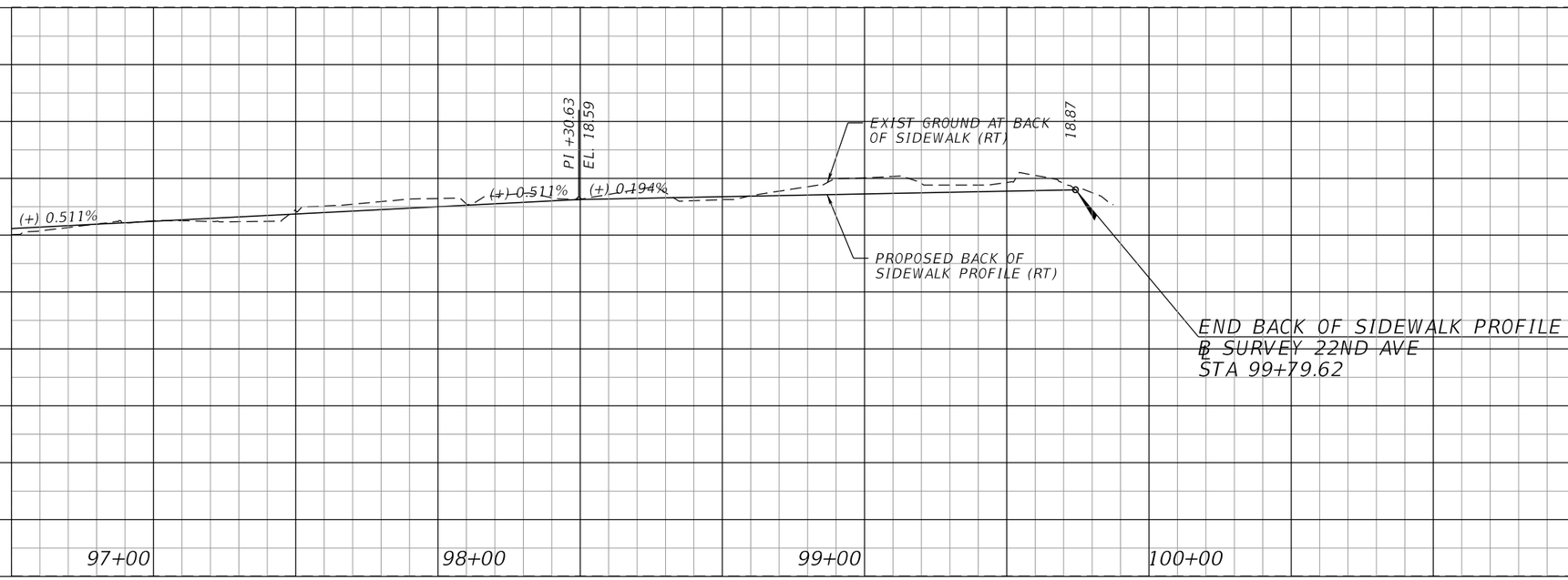
SHEET: 47
OF: 177
PROJECT NO. 444377-1



END BACK OF SIDEWALK PROFILE (LT)
℄ SURVEY 22ND AVE
STA 99+55.29

SCALE:
1" = 40' HORIZONTAL
1" = 4' VERTICAL

LEFT BACK OF SIDEWALK



END BACK OF SIDEWALK PROFILE (RT)
℄ SURVEY 22ND AVE
STA 99+79.62

SCALE:
1" = 40' HORIZONTAL
1" = 4' VERTICAL

RIGHT BACK OF SIDEWALK

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WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:
MAJHARUL ALAM, PE
P.E# 61600

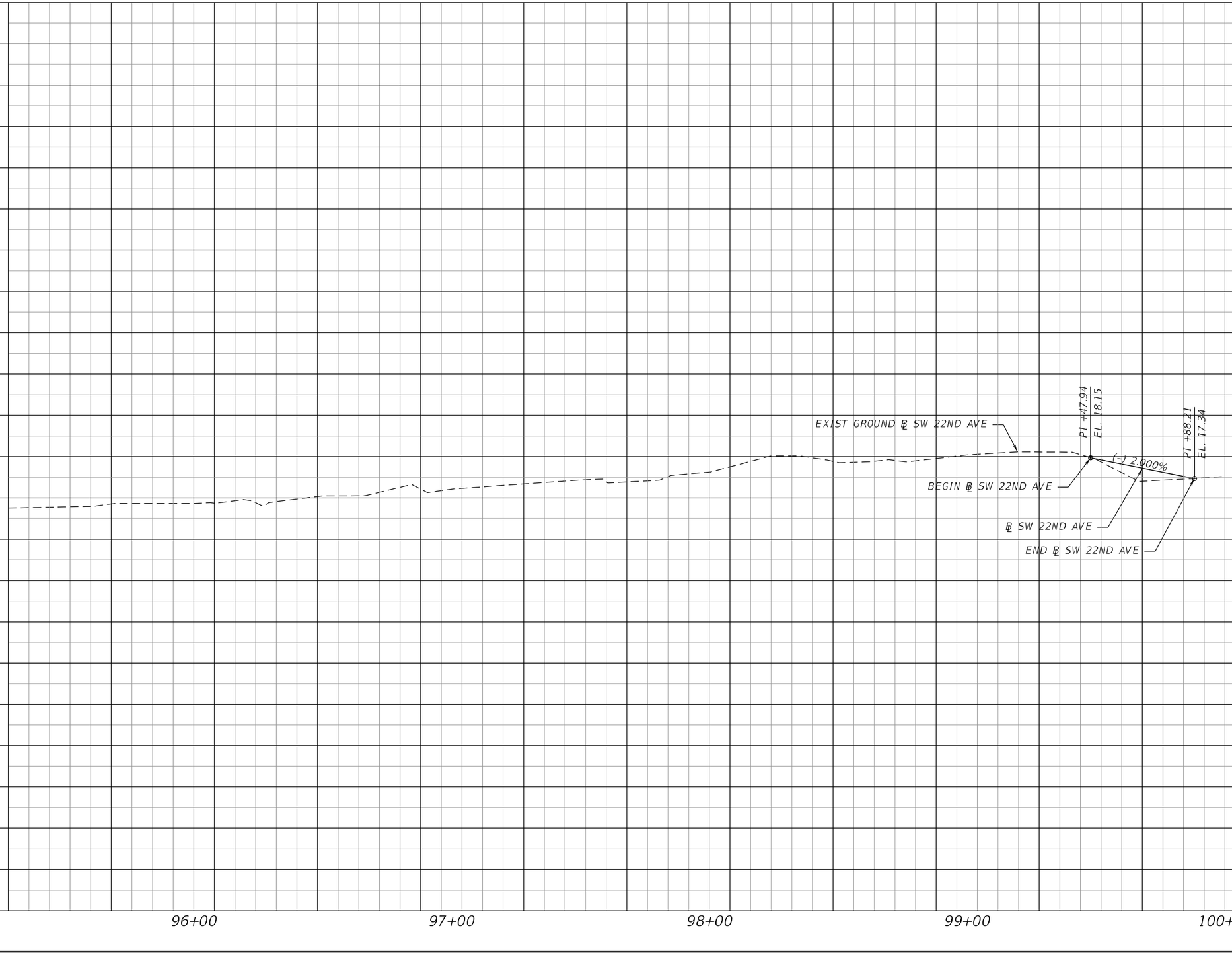
No.	Revisions	By	Date

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SW 22ND AVE

SHARED USE PATH PROFILE

SHEET: 48
OF: 177
PROJECT NO. 444377-1



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FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:

MAJHARUL ALAM, PE
P.E# 61600

No.	Revisions	By	Date

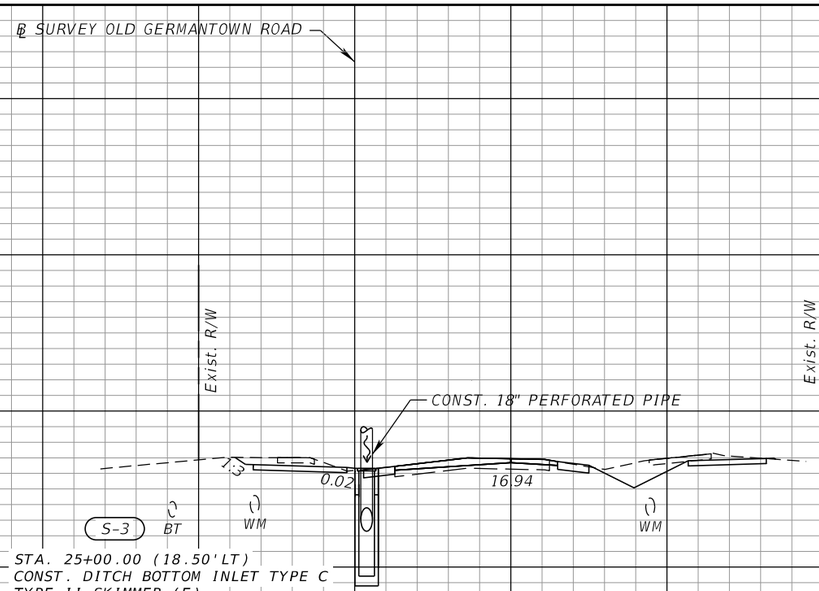
CITY of DELRAY BEACH
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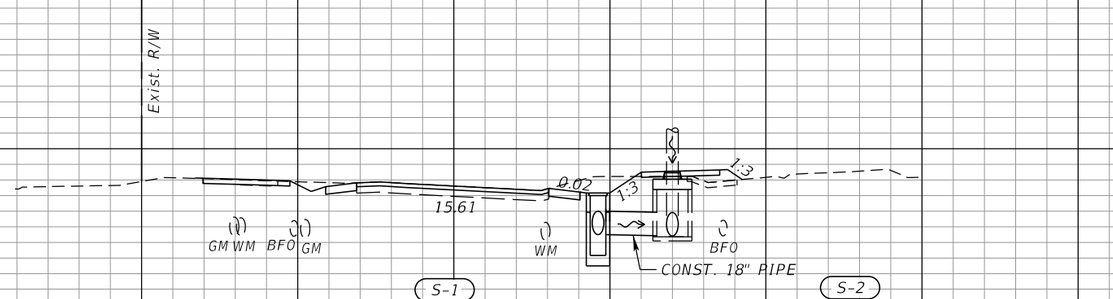
SW 22ND AVE

ROADWAY PROFILE

SHEET: 49
OF: 177

PROJECT NO.
444377-1





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WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

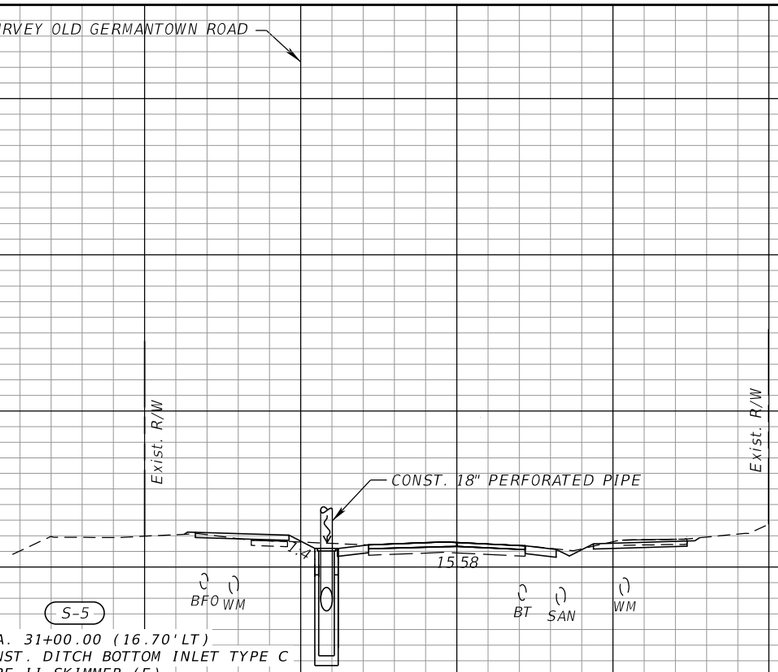
Seal:
MAJHARUL ALAM, PE
P.E# 61600

No.	Revisions	By	Date

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PUBLIC WORKS DEPARTMENT
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OLD GERMANTOWN ROAD
DRAINAGE STRUCTURES

SHEET: 50
OF: 177
PROJECT NO. 444377-1



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PROPEL

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Seal:

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P.E# 61600

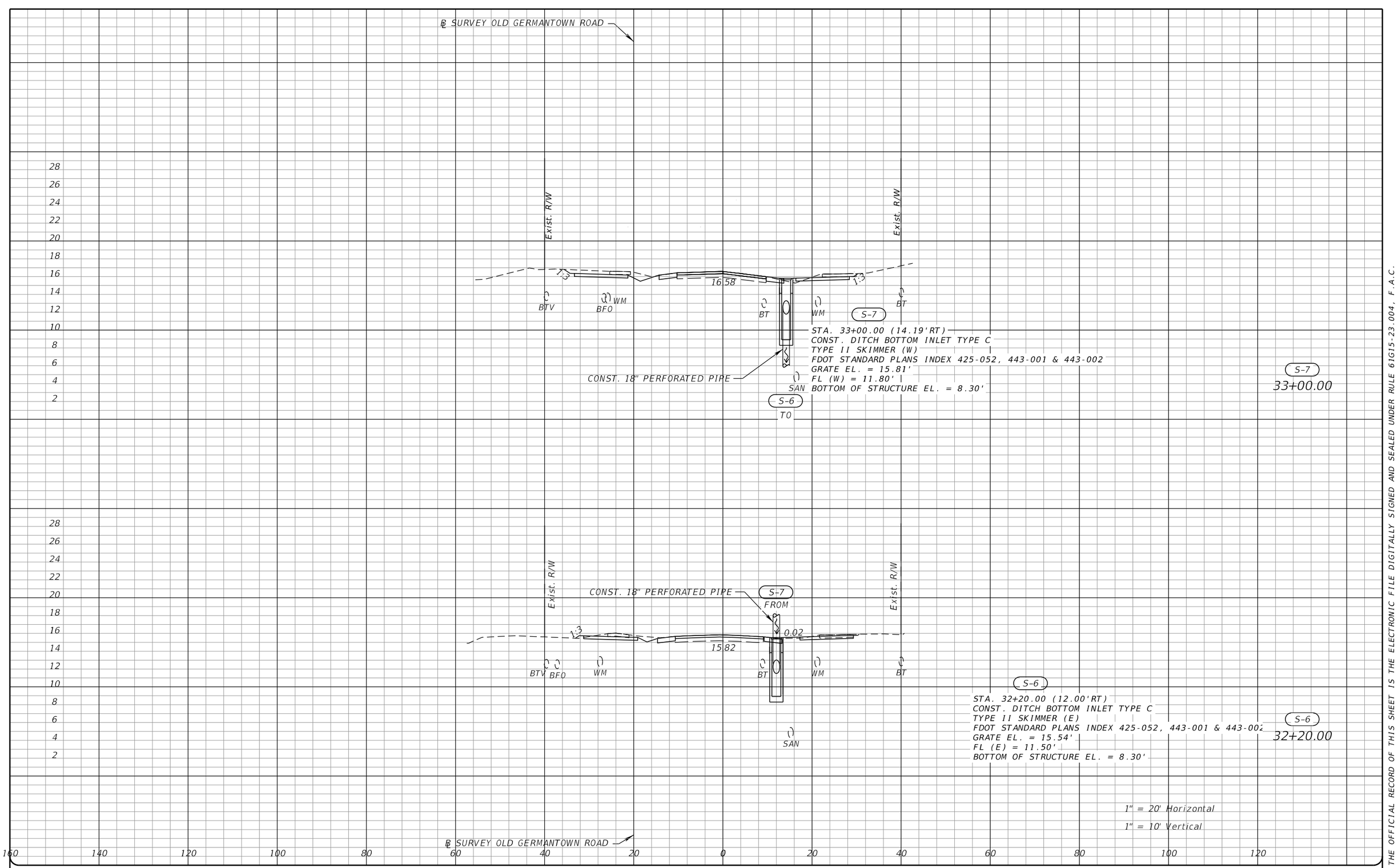
No.	Revisions	By	Date

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OLD GERMANTOWN ROAD

DRAINAGE STRUCTURES

SHEET: 51
OF: 177
PROJECT NO. 444377-1



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PROPEL

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FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:

MAJHARUL ALAM, PE
P.E# 61600

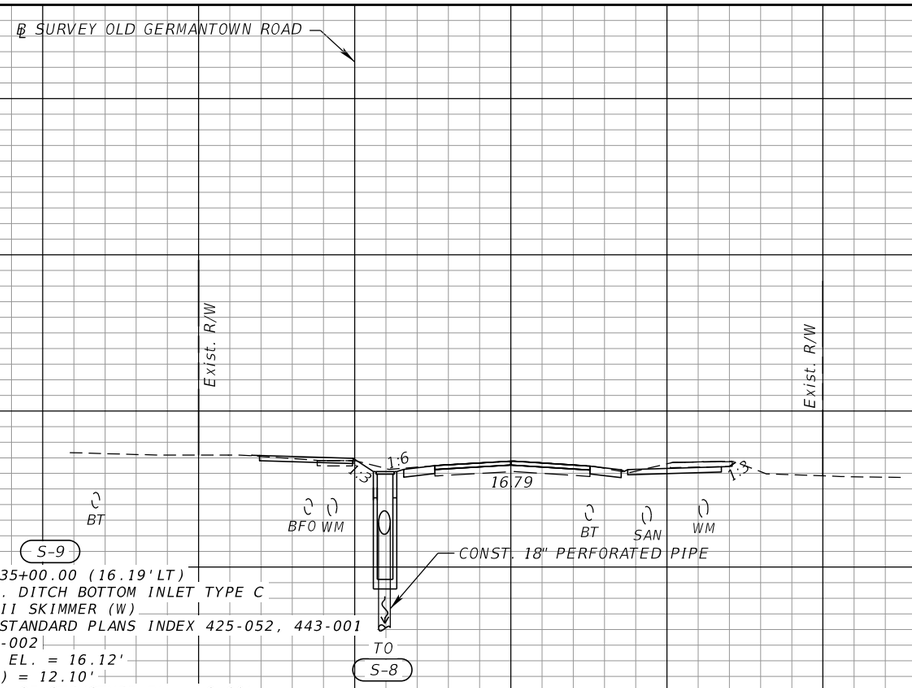
No.	Revisions	By	Date

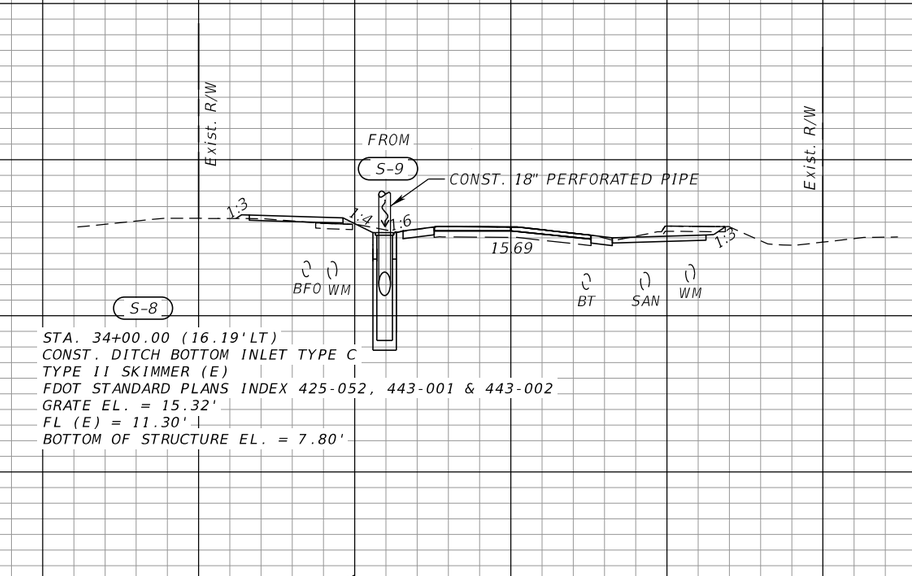
CITY of DELRAY BEACH
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Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

OLD GERMANTOWN ROAD

DRAINAGE STRUCTURES

SHEET: 52
OF: 177
PROJECT NO. 444377-1





S-9
35+00.00

S-8
34+00.00

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

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FLORIDA BUSINESS CERT. NO. 31050
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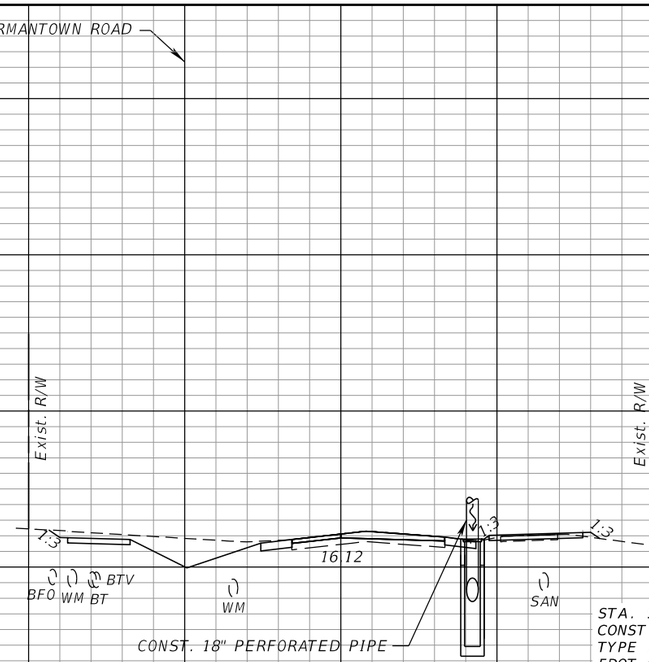
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No.	Revisions	By	Date

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Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

OLD GERMANTOWN ROAD
DRAINAGE STRUCTURES

SHEET: 53
OF: 177
PROJECT NO. 444377-1



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PROPEL

PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:

MAJHARUL ALAM, PE
P.E# 61600

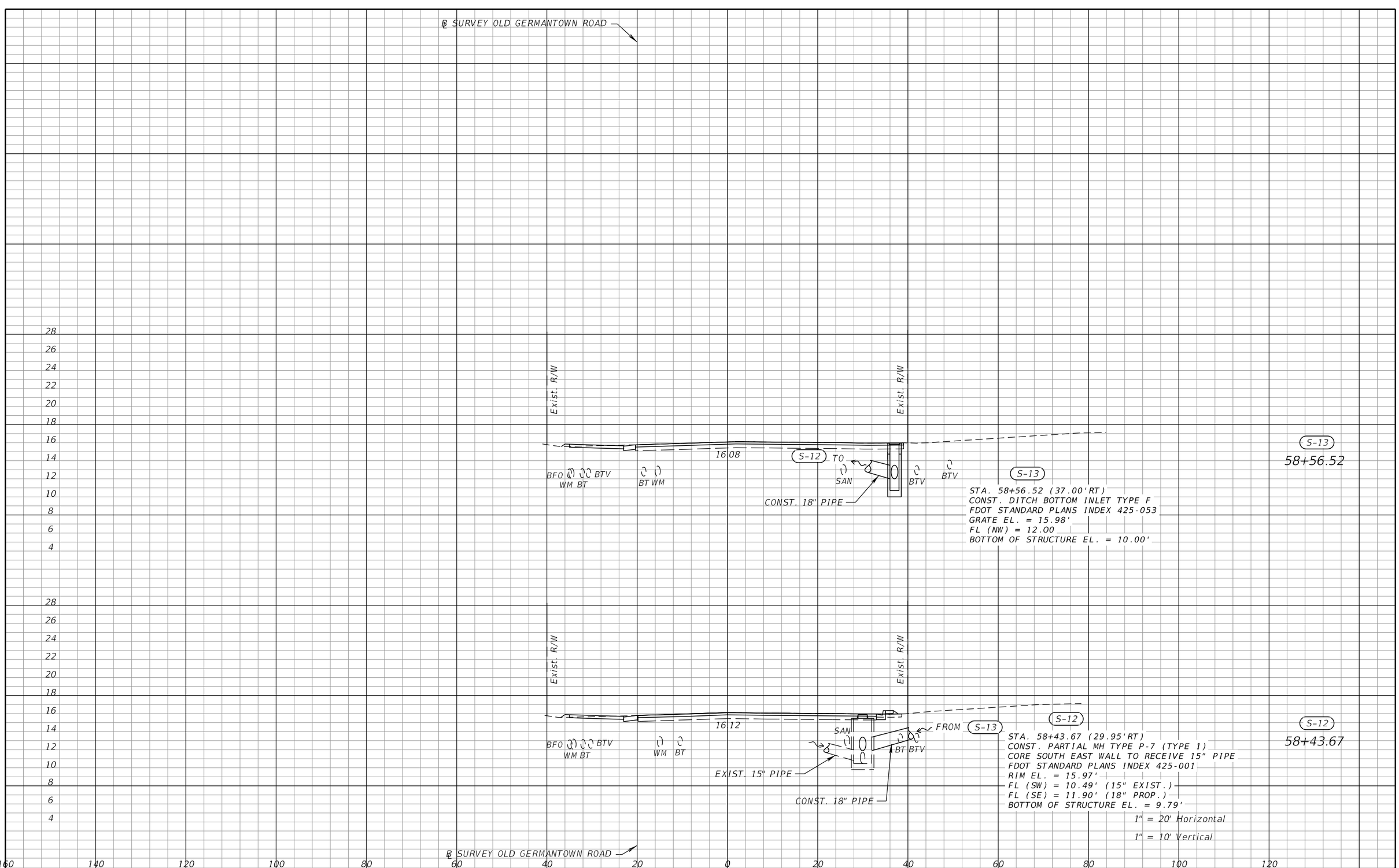
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OLD GERMANTOWN ROAD

DRAINAGE STRUCTURES

SHEET: 54
OF: 177
PROJECT NO. 444377-1



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FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:
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P.E# 61600

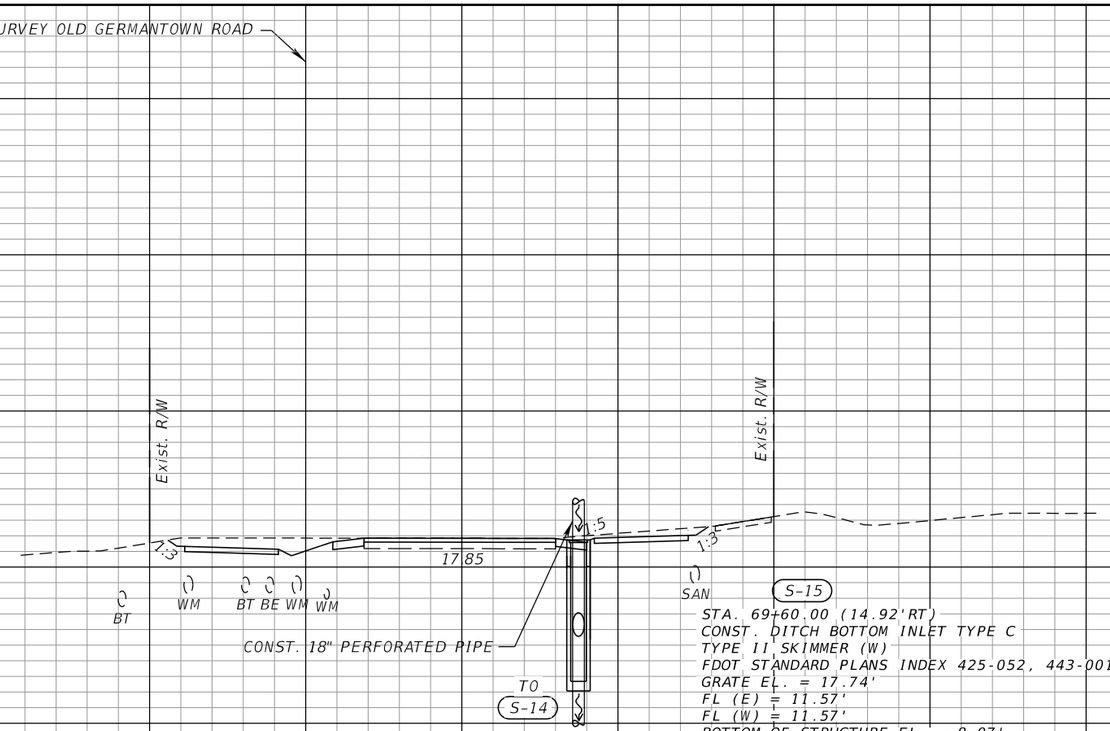
No.	Revisions	By	Date

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OLD GERMANTOWN ROAD
DRAINAGE STRUCTURES

SHEET: 55
OF: 177
PROJECT NO. 444377-1

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FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:
MAJHARUL ALAM, PE
P.E# 61600

No.	Revisions	By	Date

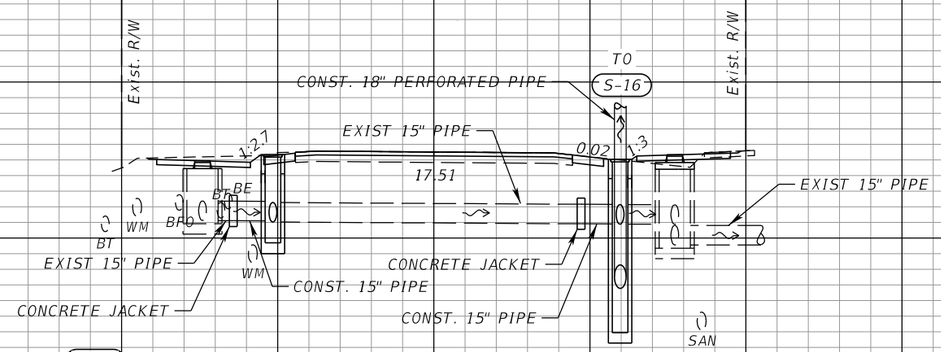
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OLD GERMANTOWN ROAD

DRAINAGE STRUCTURES

SHEET: 56
OF: 177
PROJECT NO. 444377-1

℄ SURVEY OLD GERMANTOWN ROAD



S-17

STA. 74+44.28 (29.64'LT)
CONST. PARTIAL MH TYPE P-7 (TYPE 1)
FDOT STANDARD PLANS INDEX 425-001
RIM EL. = 16.95'
FL (S) = 13.13' (CONTRACTOR TO FIELD VERIFY)
BOTTOM OF STRUCTURE EL. = 12.26'

S-18

STA. 74+44.28 (20.64'LT)
CONST. DITCH BOTTOM INLET TYPE C
CORE NORTH WALL TO RECEIVE 15" PIPE
FDOT STANDARD PLANS INDEX 425-052 & 430-001
GRATE EL. = 17.36'
FL (N) = 13.04' (CONTRACTOR TO FIELD VERIFY)
FL (S) = 13.03'
BOTTOM OF STRUCTURE EL. = 11.00'

S-19

STA. 74+44.28 (23.88'RT)
CONST. DITCH BOTTOM INLET TYPE C
CORE NORTH WALL TO RECEIVE 15" PIPE
FDOT STANDARD PLANS INDEX 425-052 & 430-001
GRATE EL. = 17.05'
FL (N) = 12.91' (CONTRACTOR TO FIELD VERIFY)
FL (S) = 12.90'
FL (E) = 8.78'
BOTTOM OF STRUCTURE EL. = 5.28'

S-20

STA. 74+44.28 (30.88'RT)
CONST. PARTIAL MH TYPE P-7 (TYPE 1)
FDOT STANDARD PLANS INDEX 425-001
RIM EL. = 17.35'
FL (N) = 12.88' (CONTRACTOR TO FIELD VERI
FL (S) = 11.56' (CONTRACTOR TO FIELD VERI
BOTTOM OF STRUCTURE EL. = 10.69'

S-20
S-19
S-18
S-17

74+44.28

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

℄ SURVEY OLD GERMANTOWN ROAD

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FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:

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P.E# 61600

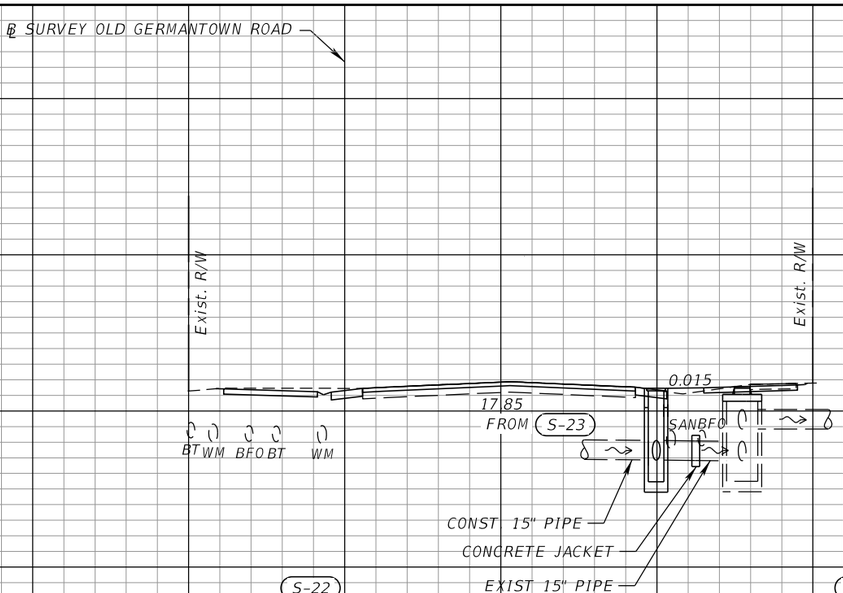
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OLD GERMANTOWN ROAD
DRAINAGE STRUCTURES

SHEET: 57
OF: 177
PROJECT NO. 444377-1

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S-22

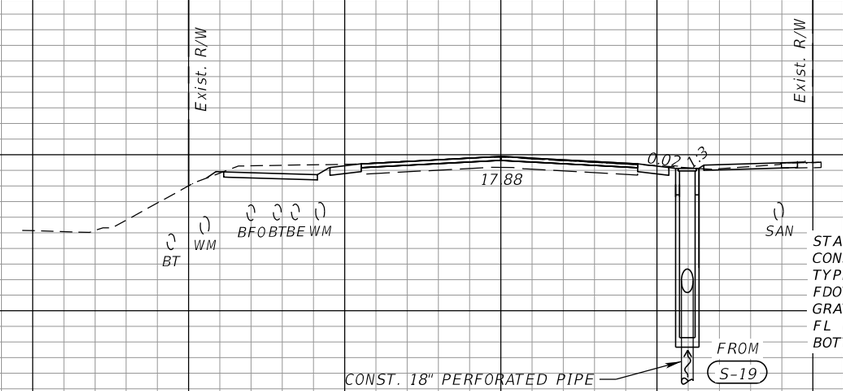
STA. 79+01.86 (19.92'RT)
CONST. DITCH BOTTOM INLET TYPE C
CORE NORTH WALL TO RECEIVE 15" PIPE
FDOT STANDARD PLANS INDEX 425-052
GRATE EL. = 17.36'
FL (N) = 12.86' (CONTRACTOR TO FIELD VERIFY)
FL (S) = 12.85'
BOTTOM OF STRUCTURE EL. = 10.80'

S-21

STA. 79+01.44 (30.92'RT)
CONST. PARTIAL MH TYPE P-7 (TYPE 1)
FDOT STANDARD PLANS INDEX 425-001
RIM EL. = 17.56'
FL (N) = 12.81' (CONTRACTOR TO FIELD VERIFY)
FL (S) = 14.84' (CONTRACTOR TO FIELD VERIFY)
BOTTOM OF STRUCTURE EL. = 10.83'

S-22
79+01.86

S-21
79+01.44



S-16

STA. 74+94.28 (23.88'RT)
CONST. DITCH BOTTOM INLET TYPE C
TYPE II SKIMMER (E)
FDOT STANDARD PLANS INDEX 425-052, 443-001 & 443-002
GRATE EL. = 17.15'
FL (W) = 9.20'
BOTTOM OF STRUCTURE EL. = 5.70'

S-16
74+94.28

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

℄ SURVEY OLD GERMANTOWN ROAD

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WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:

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P.E# 61600

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OLD GERMANTOWN ROAD

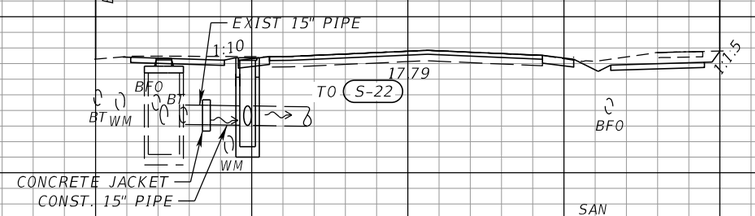
DRAINAGE STRUCTURES

SHEET: 58
OF: 177
PROJECT NO. 444377-1

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℄ SURVEY OLD GERMANTOWN ROAD



S-24

STA. 79+03.81 (31.25'LT)
CONST. PARTIAL MH TYPE P-7 (TYPE 1)
CORE SOUTH WALL TO RECEIVE 15" PIPE
FDOT STANDARD PLANS INDEX 425-001
RIM EL. = 17.33'
FL (N) = 13.10' (CONTRACTOR TO FIELD VERIFY)
BOTTOM OF STRUCTURE EL. = 10.50'

S-23

STA. 79+03.40 (20.55'LT)
CONST. DITCH BOTTOM INLET TYPE C
CORE NORTH WALL TO RECEIVE 15" PIPE
FDOT STANDARD PLANS INDEX 425-052
GRATE EL. = 17.36'
FL (N) = 13.05' (CONTRACTOR TO FIELD VERIFY)
FL (S) = 13.04'

S-24
79+03.81
S-23
79+03.40

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

℄ SURVEY OLD GERMANTOWN ROAD

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

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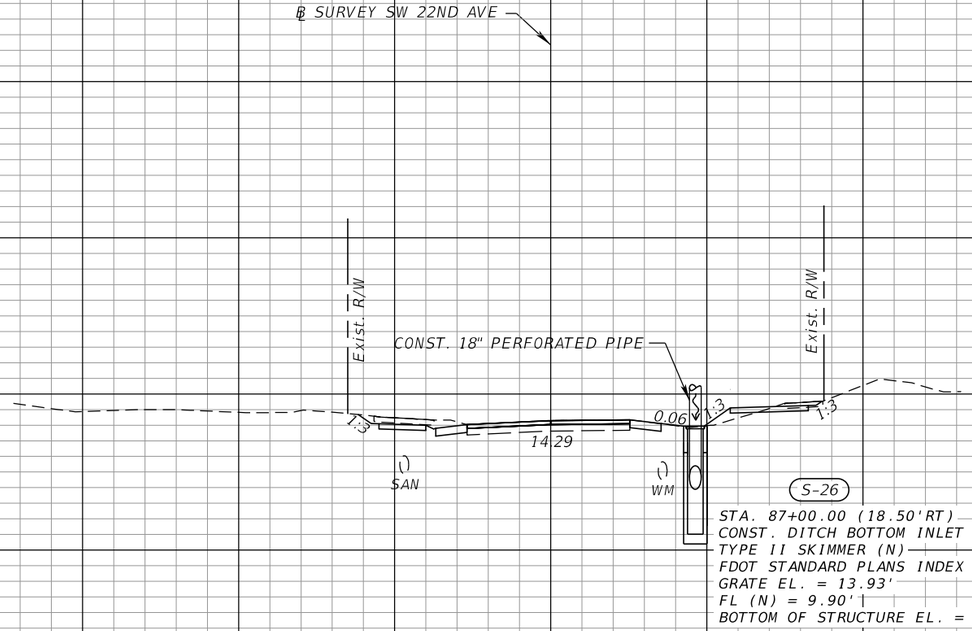
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OLD GERMANTOWN ROAD

DRAINAGE STRUCTURES

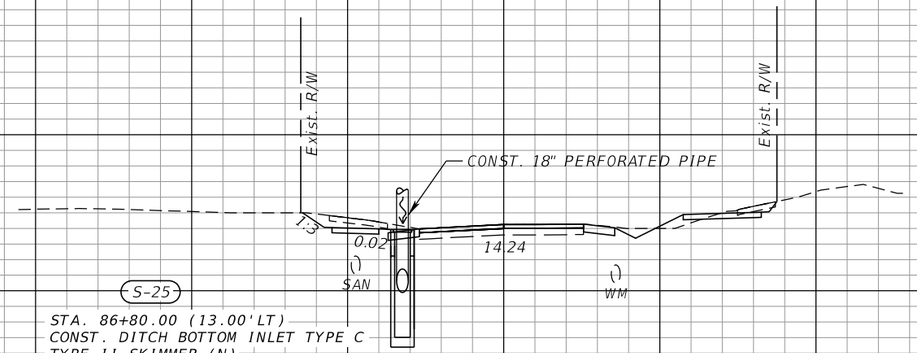
SHEET: 59
OF: 177
PROJECT NO. 444377-1



S-26

STA. 87+00.00 (18.50'RT)
CONST. DITCH BOTTOM INLET TYPE C
TYPE II SKIMMER (N)
FDOT STANDARD PLANS INDEX 425-052, 443-001 & 443-002
GRATE EL. = 13.93'
FL (N) = 9.90'
BOTTOM OF STRUCTURE EL. = 6.40'

S-26
87+00.00



S-25

STA. 86+80.00 (13.00'LT)
CONST. DITCH BOTTOM INLET TYPE C
TYPE II SKIMMER (N)
FDOT STANDARD PLANS INDEX 425-052, 443-001 & 443-002
GRATE EL. = 13.92'
FL (N) = 9.90'
BOTTOM OF STRUCTURE EL. = 6.40'

S-25
86+80.00

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

℄ SURVEY SW 22ND AVE

28 26 24 22 20 18 16 14 12 10 8 6 4 2

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160

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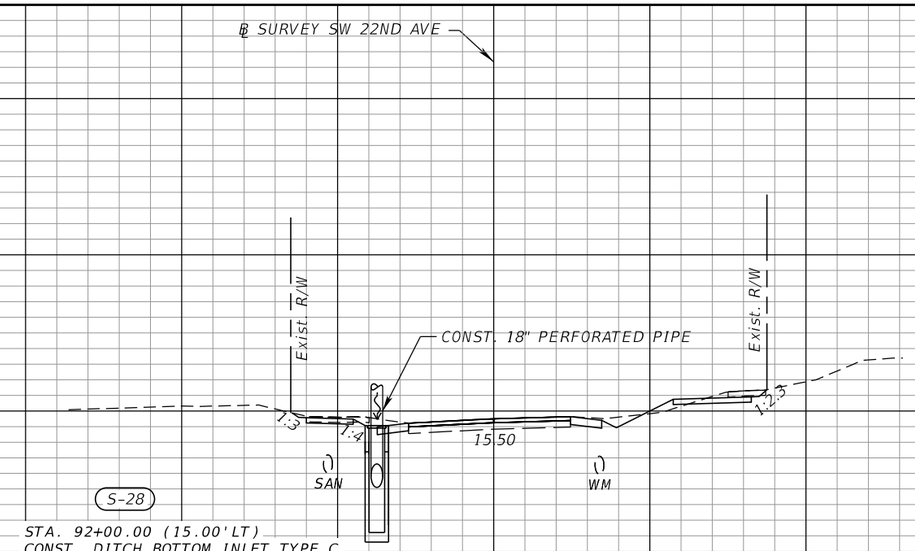
SW 22ND AVE

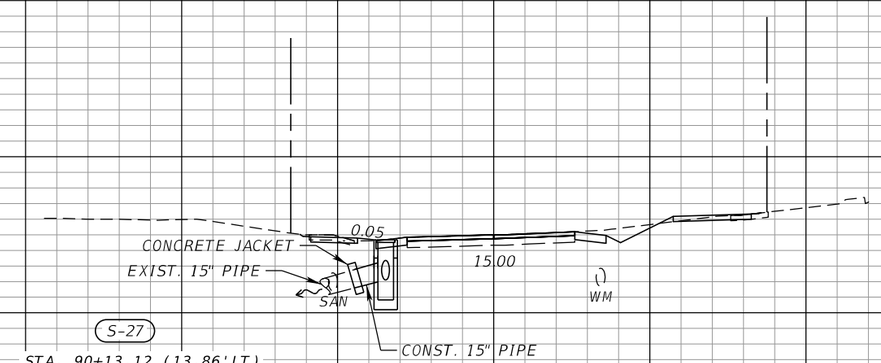
DRAINAGE STRUCTURES

SHEET: 60
OF: 177

PROJECT NO.
444377-1

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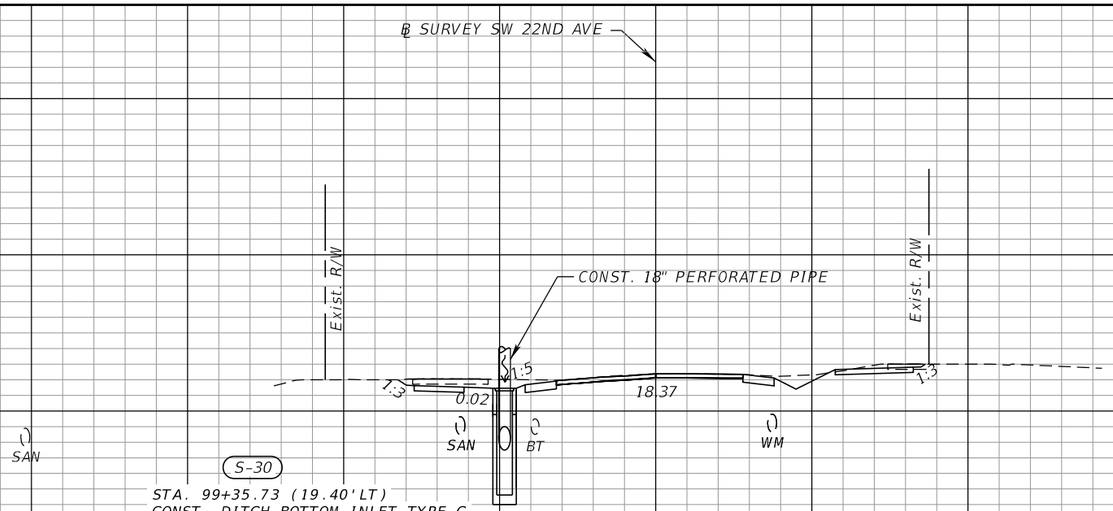
SW 22ND AVE

DRAINAGE STRUCTURES

SHEET: 61
OF: 177

PROJECT NO. 444377-1

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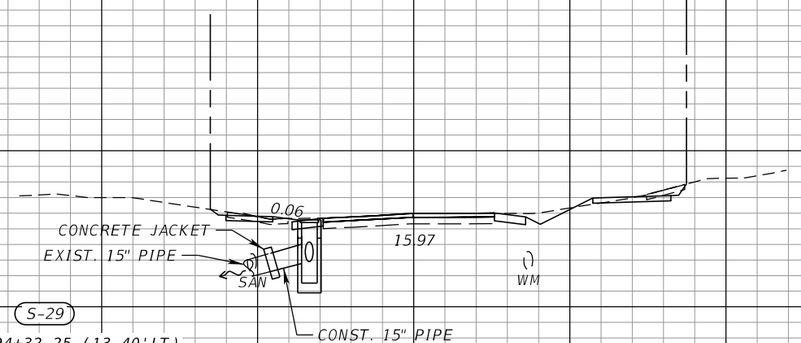


S-30

STA. 99+35.73 (19.40'LT)
CONST. DITCH BOTTOM INLET TYPE C
TYPE II SKIMMER (S)|
FDOT STANDARD PLANS INDEX 425-052, 443-001 & 443-002
GRATE EL. = 17.46'
FL (S) = 13.50'
BOTTOM OF STRUCTURE EL. = 10.00'

S-30

99+35.73



S-29

STA. 94+32.25 (13.40'LT)
CONST. DITCH BOTTOM INLET TYPE C
FDOT STANDARD PLANS INDEX 425-052 & 430-001
GRATE EL. = 15.57'
FL (SW) = 12.90'
BOTTOM OF STRUCTURE EL. = 10.90'

S-29

94+32.25

1" = 20' Horizontal

1" = 10' Vertical

℄ SURVEY SW 22ND AVE

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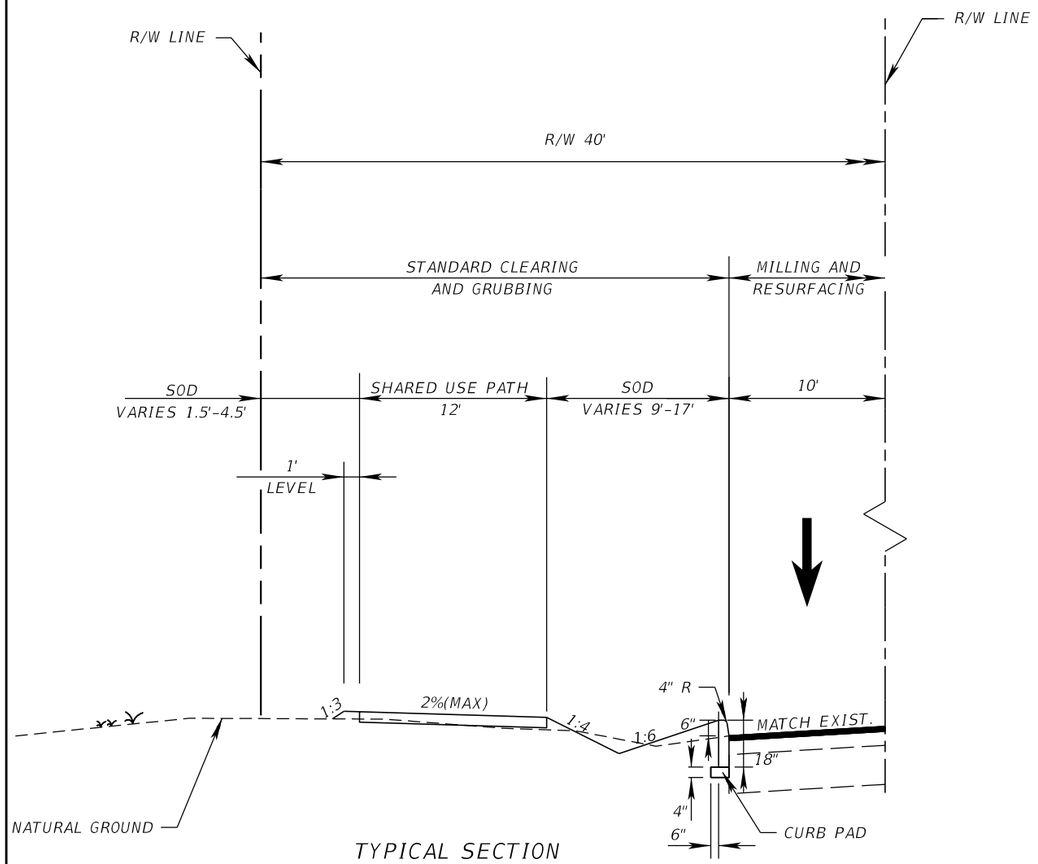
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SW 22ND AVE

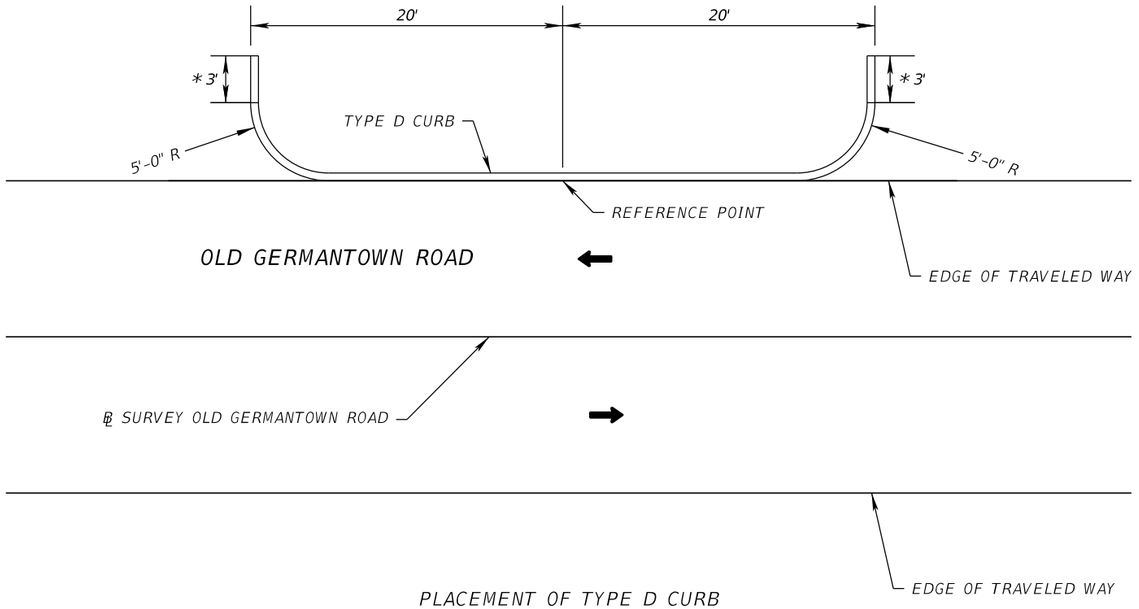
DRAINAGE STRUCTURES

SHEET: 62
OF: 177
PROJECT NO. 444377-1

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TYPICAL SECTION
OLD GERMANTOWN ROAD
TYPE D CURB PLACE AT TREE LOCATIONS



PLACEMENT OF TYPE D CURB
AT PROPOSED TREE
LOCATIONS (NTS.)

PROPOSED TYPE D	
REFERENCE POINT STATION	SIDE
13+00.00	LT
17+00.00	LT
21+85.00	LT
26+40.00	LT
30+50.00	LT
33+50.00	LT
42+40.00	LT
45+40.00	LT
55+00.00	LT
56+90.00	LT
67+00.00	LT
71+00.00	LT

* 3' TRANSITION FROM FULL TO ZERO HEIGHT

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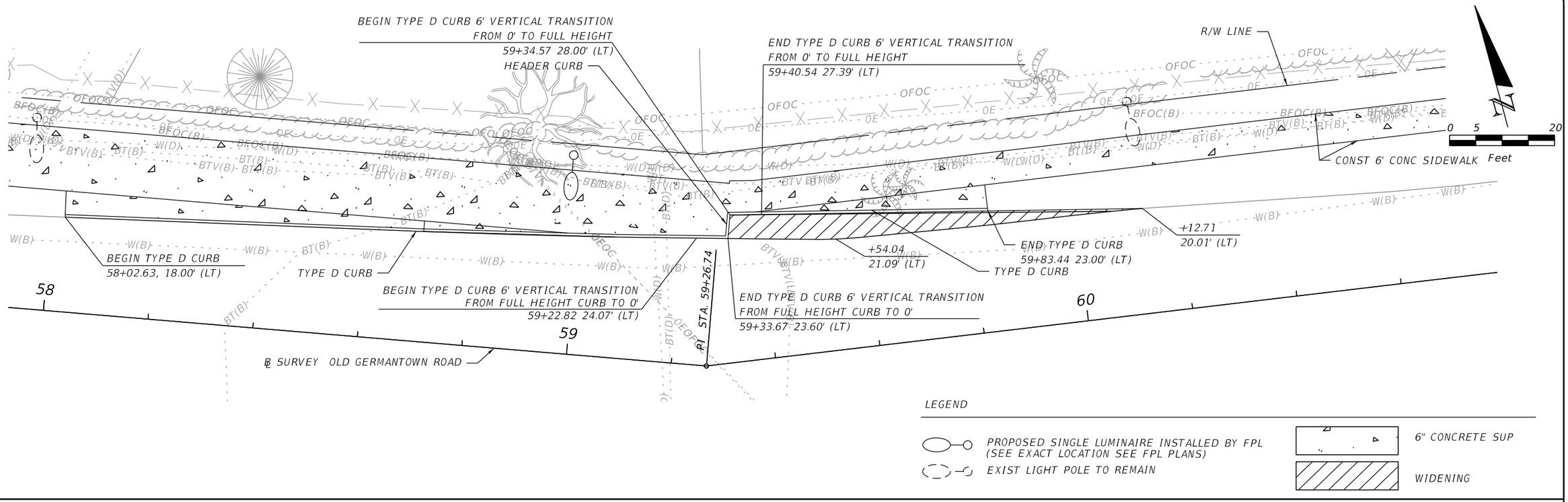
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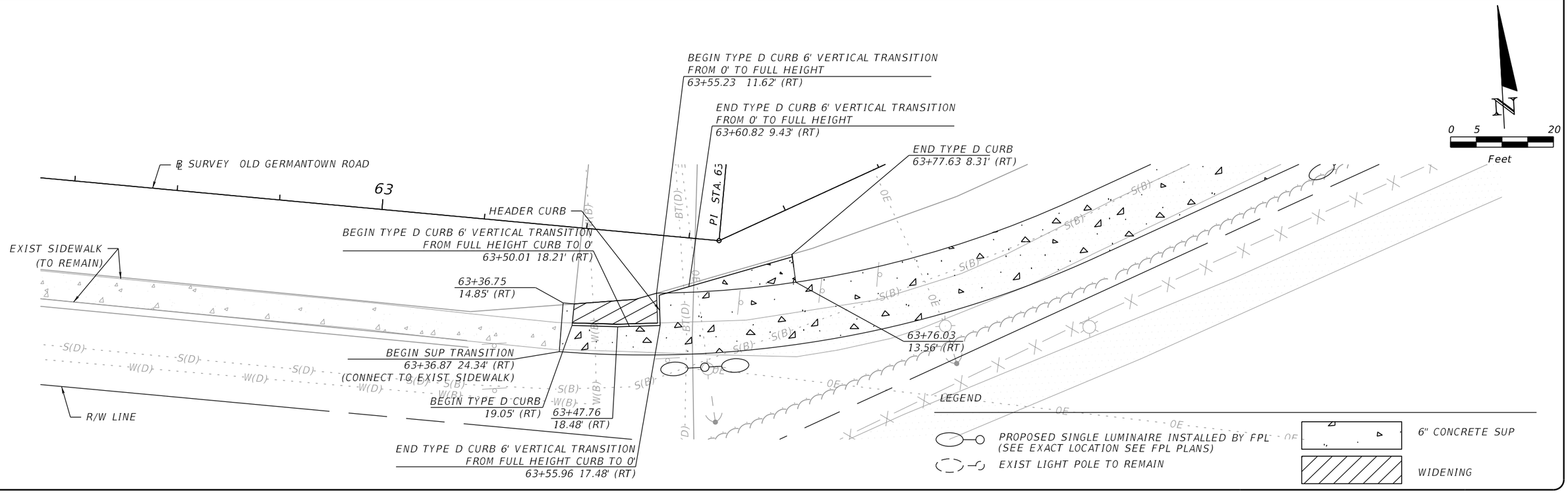
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OLD GERMANTOWN ROAD
SPECIAL DETAILS

SHEET: 63
OF: 177
PROJECT NO. 444377-1





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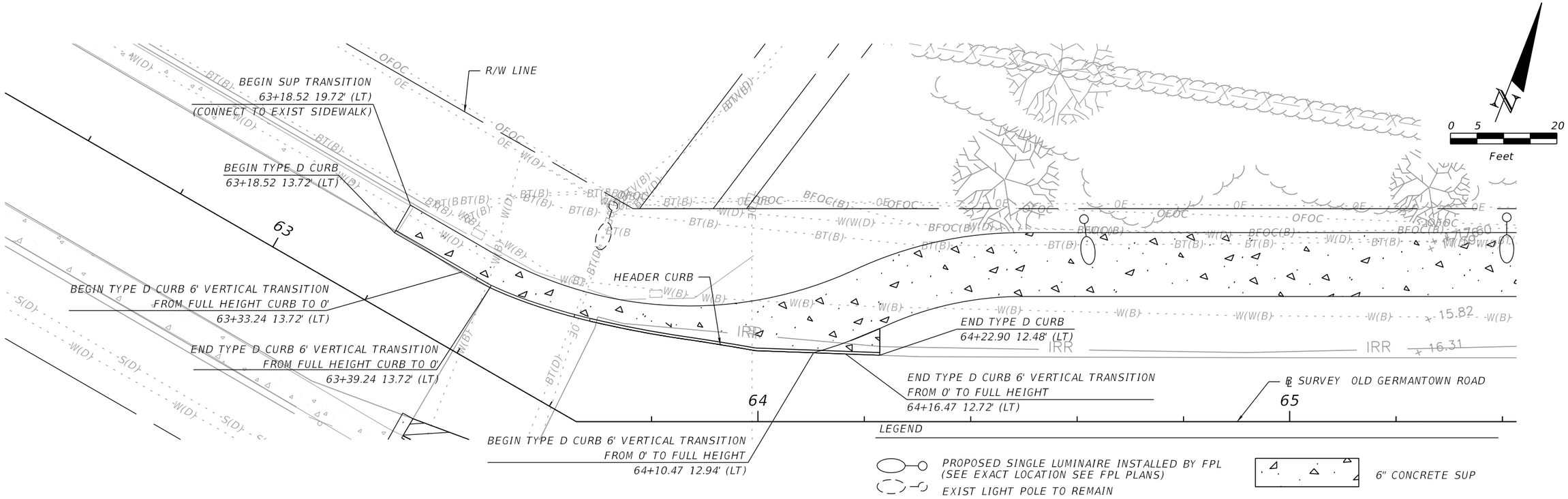
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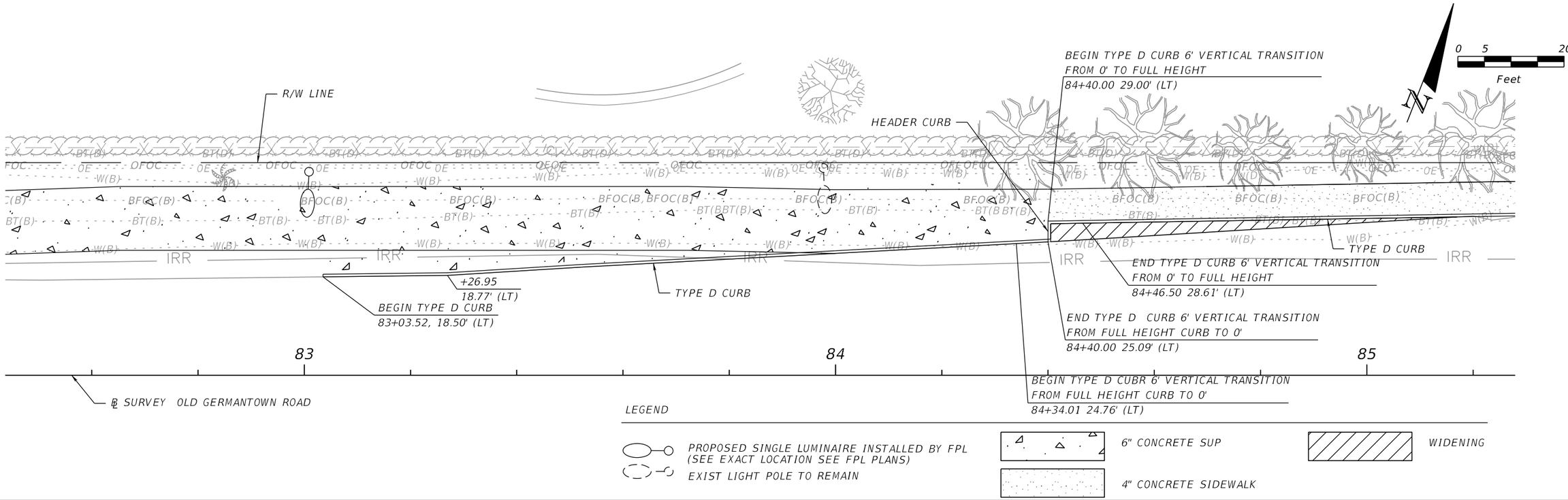
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OLD GERMANTOWN ROAD
SPECIAL DETAILS

SHEET: 64
OF: 177
PROJECT NO. 444377-1





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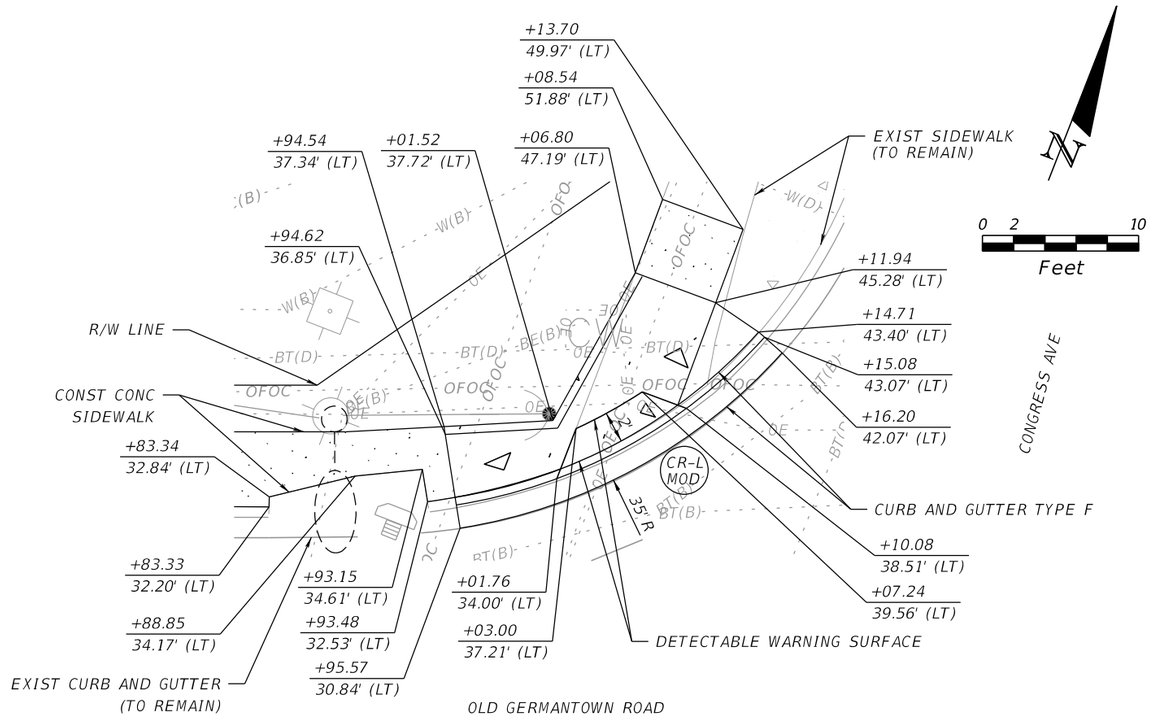
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CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

OLD GERMANTOWN ROAD
SPECIAL DETAILS

SHEET: 65
OF: 177
PROJECT NO. 444377-1



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PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:

MAJHARUL ALAM, PE
P.E# 61600

No.	Revisions	By	Date

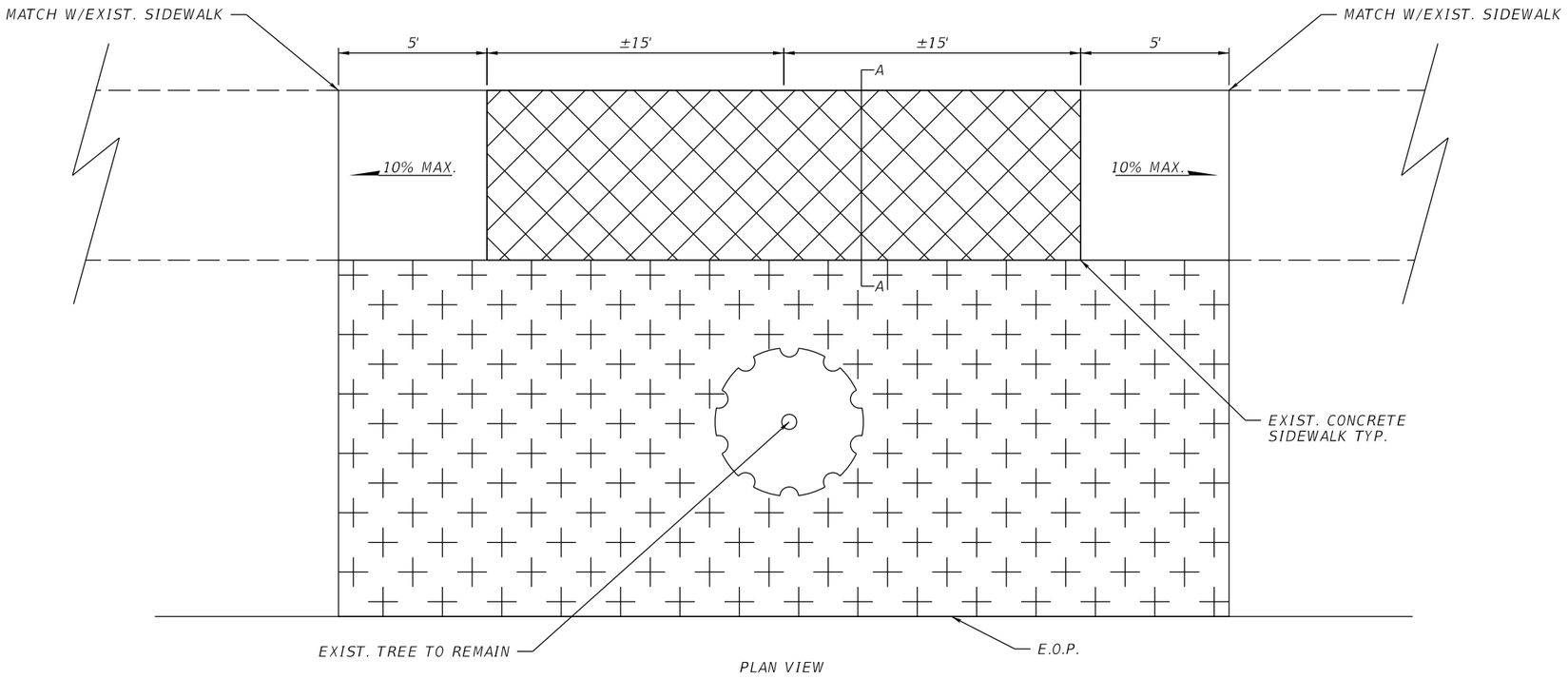
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OLD GERMANTOWN ROAD

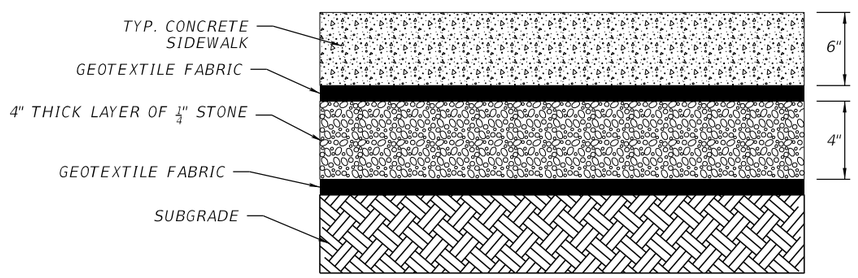
SPECIAL DETAILS

SHEET: 66
OF: 177

PROJECT NO.
444377-1



PLAN VIEW



SECTION A-A

NOTE:
THE EXTENDS OF THE GEOTEXTILE FABRIC WILL VARY DEPENDING ON THE EXISTING TREE ROOTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE SURE THAT THE TREE ROOT INTEGRITY IS PRESERVE DURING THE INSTALLATION PROCESS.

(#) ROOT TREATMENT DETAIL
N.T.S.

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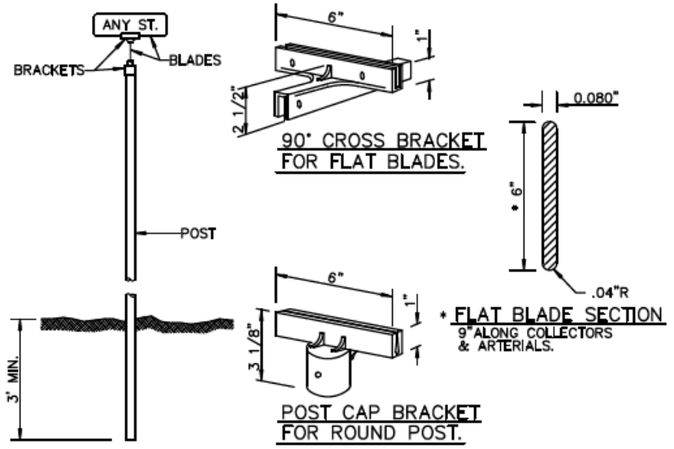
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OLD GERMANTOWN ROAD
SPECIAL DETAILS

SHEET: 67
OF: 177
PROJECT NO. 444377-1



GENERAL SPECIFICATIONS:

* BLADE: ALCOA NO.86054,6063–T6 ALLOY, ETCHED, DEGREASED, AND DEBURRED WITH NO.1200 ALDOLINE FINISH WITH HIGH INTENSITY GREEN BACKGROUND DIMENSIONS: 6" OR 9" IN HEIGHT, AND 24", 30", OR 36" IN LENGTH

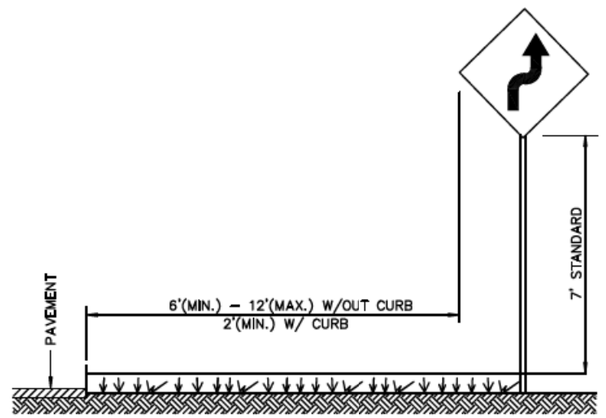
* LETTERS: NAME 4" SERIES "B" HIGH INTENSITY (SILVER) SUFFIX 2" SERIES "B" HIGH INTENSITY (SILVER) ALL LETTERS FOR SIGNS ALONG COLLECTOR OR ARTERIAL ROADWAYS SHALL BE 7" SERIES "B" WITH 4" SERIES "B" SUFFIX ON 9" HIGH BLADES.

* POST: STEEL FLANGED GALVANIZED CHANNEL. PER A.S.T.M. A123 WITHOUT ANCHOR PLATES.

* BRACKETS: DIE CAST HIGH STRENGTH ALUMINUM ALLOY, MIN. TENSILE STRENGTH 45,000 P.S.I., DEGREASED, TUMBLED, AND POLISHED SIDES OF ALL SLOTS SHALL BE SOLID METAL WITH TWO HOLES PER SLOT (SAME SIDE) DRILLED TO 7/32" AND TAPPED TO 1/4" TO RECEIVE STAINLESS STEEL ALLENHEAD SET SCREWS, SKIRT OF POST CAP BRACKET TO BE DRILLED AND TAPPED FOR 3 SCREWS OF WHICH NO TWO IS TO BE LESS THAN 90° OR MORE THAN 135° APART. (METRO HUSKEY NO.6 OR EQUAL.)

CITY of DELRAY BEACH PUBLIC WORKS DEPARTMENT 434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444	STREET SIGN DETAIL (SHEET 1 of 2)	DATE: 09-15-2021 RT 6.0

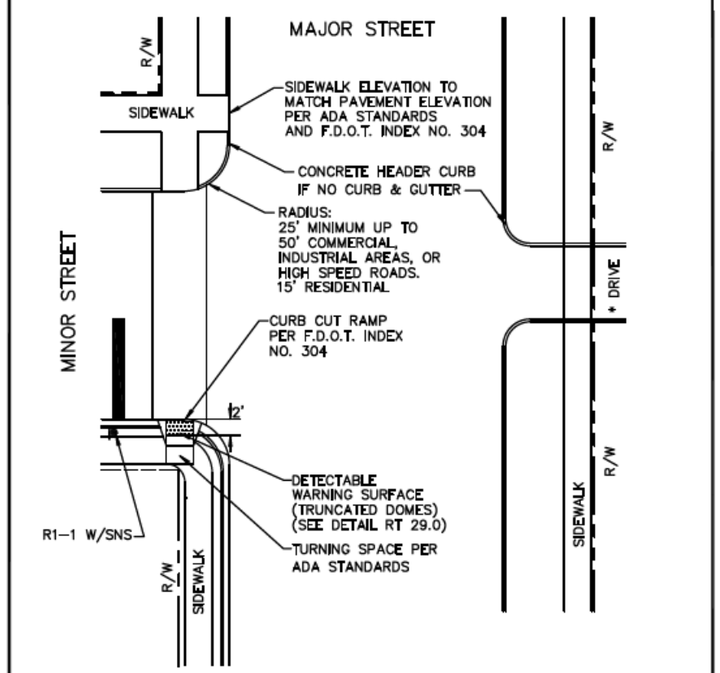
TYPICAL SIGN. PLAN SYMBOL :



NOTES:

1. ALL SIGNS SHALL BE SPECIFIED USING THE M.U.T.C.D. DESIGNATION.
2. ALL SIGNS SHALL BE FACED WITH HIGH INTENSITY SHEETING MATERIAL OR BETTER.
3. SIGNS SHALL BE MANUFACTURED WITH 0.080" ALUMINUM BLANK.
4. POSTS SHALL BE PER DETAIL RT 6.0.
5. USE SHALL FOLLOW THE M.U.T.C.D. AND F.D.O.T. STANDARD DESIGN SPECIFICATIONS
6. ANY DEVIATION FROM THIS TYPICAL SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO INSTALLATION.
7. REFLECTIVE POSTS MAY BE USED IF M.U.T.C.D. STANDARD IS FOLLOWED.

CITY of DELRAY BEACH PUBLIC WORKS DEPARTMENT 434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444	STREET SIGN DETAIL (SHEET 2 of 2)	DATE: 09-15-2021 RT 7.0



* DRIVEWAY DESIGN TO BE PER CITY LAND DEVELOPMENT REGULATIONS, FDOT STANDARD SPECIFICATIONS. ALL DESIGNS SUBJECT TO CITY ENGINEER APPROVAL.

* ALL WALKS CROSSING A VEHICULAR AREA SHALL HAVE A DETECTABLE WARNING SURFACE (TRUNCATED DOME) IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, CHAPTER 11, FL ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION.

CITY of DELRAY BEACH PUBLIC WORKS DEPARTMENT 434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444	INTERSECTION DETAIL	DATE: 09-15-2021 RT 8.0

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PROPEL ENGINEERING, INC.
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WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

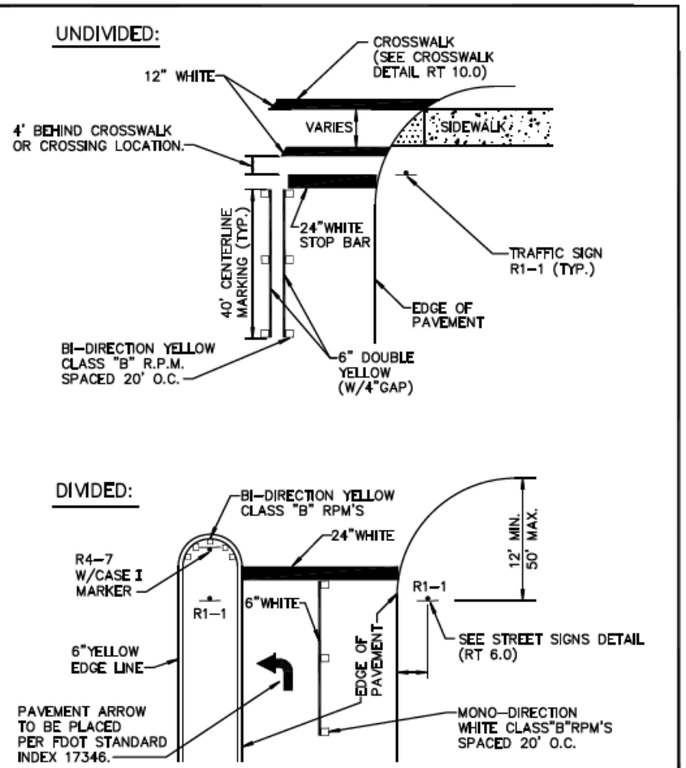
Seal:
MAJHARUL ALAM, PE
P.E# 61600

No.	Revisions	By	Date

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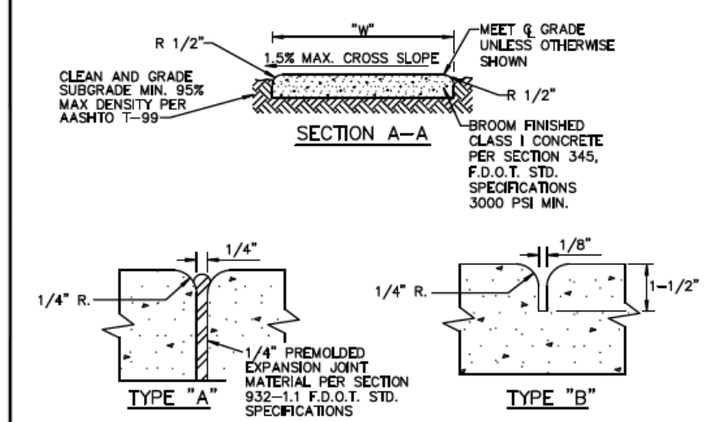
OLD GERMANTOWN ROAD
SPECIAL DETAILS

SHEET: 68
OF: 177
PROJECT NO. 444377-1



NOTE: ALL STRIPING AND DELINEATION TO CONFORM TO THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (MUTCD) LATEST ED.

CITY of DELRAY BEACH PUBLIC WORKS DEPARTMENT 434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444	INTERSECTION TRAFFIC CONTROL STOP CONDITION	DATE 09-15-2021 RT 9.0



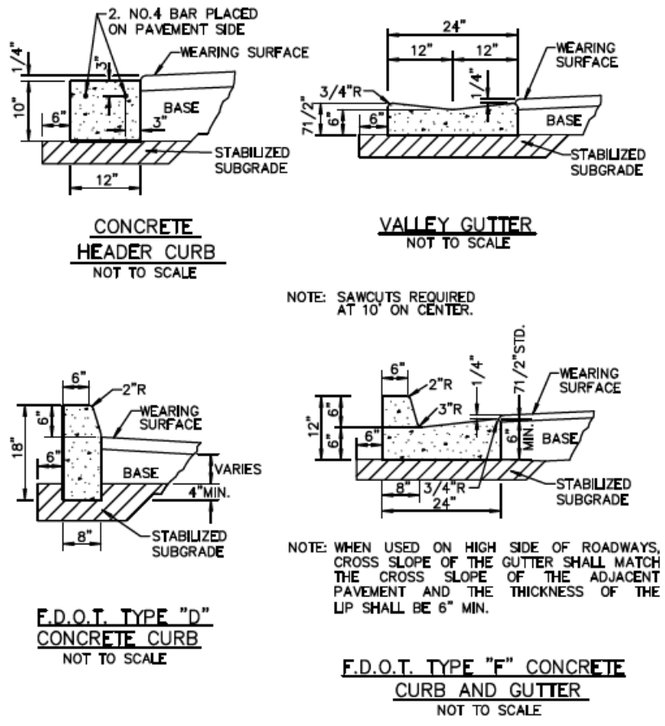
SIDEWALK JOINTS

NOTE:
1. ALL SIDEWALKS SHALL BE CONSTRUCTED THRU DRIVEWAYS.
2. ALL SIDEWALKS SHALL INCLUDE ADA COMPLIANT RAMPS @ INTERSECTIONS.
3. ALL SIDEWALKS SHALL INCLUDE CROSS SLOPE AND RUNNING SLOPE IN ACCORDANCE WITH ADA REQUIREMENTS.
4. CURB RAMP DETECTABLE WARNING SURFACE SHALL EXTEND THE FULL WIDTH OF THE RAMP AND 24" DEEP

TABLE OF SIDEWALK THICKNESS - "T"	
GENERAL AREAS	4"
WITHIN 10' OF CROSS-STREETS, AT DRIVEWAYS & OTHER AREAS	6",9" @C.O.P.
TABLE OF SIDEWALK WIDTHS - "W"	
SINGLE-FAMILY AREAS	5'
MULTI-FAMILY AREAS	5'
OTHER AREAS AS SPECIFIED BY THE CITY ENGINEER.	

TABLE OF SIDEWALK JOINTS	
TYPE	LOCATION
"A"	P.C. AND P.T. OF CURVES JUNCTION OF EXISTING & NEW SIDEWALKS & EVERY 30'
"B"	5'-0" CENTER TO CENTER ON SIDEWALKS SCORED DURING PLACEMENT OR SAWCUT WITHIN 24 HOURS OF PLACEMENT.
"A"	WHERE SIDEWALK ABUTS CONCRETE CURBS, DRIVEWAYS, AND SIMILAR STRUCTURES.

CITY of DELRAY BEACH PUBLIC WORKS DEPARTMENT 434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444	SIDEWALK CONSTRUCTION	DATE 09-15-2021 RT 18.1



CONCRETE HEADER CURB
NOT TO SCALE

VALLEY GUTTER
NOT TO SCALE

NOTE: SAWCUTS REQUIRED AT 10' ON CENTER.

NOTE: WHEN USED ON HIGH SIDE OF ROADWAYS, CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT AND THE THICKNESS OF THE LIP SHALL BE 6" MIN.

F.D.O.T. TYPE "D" CONCRETE CURB
NOT TO SCALE

F.D.O.T. TYPE "F" CONCRETE CURB AND GUTTER
NOT TO SCALE

NOTES:
1. ROADWAY SUBGRADE SHALL IN ALL CASES EXTEND BELOW CURBING.
2. SAWCUTS AT 10' ON CENTER SHALL BE MADE WITHIN 24 HOURS OF CONCRETE PLACEMENT.

CITY of DELRAY BEACH PUBLIC WORKS DEPARTMENT 434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444	CURB AND GUTTER SECTIONS	DATE 09-15-2021 RT 19.0

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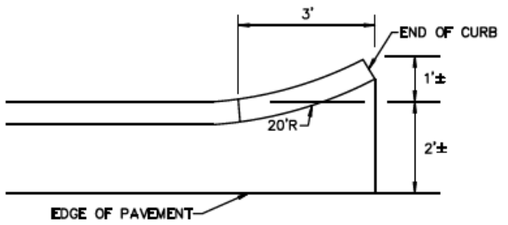
Seal:
MAJHARUL ALAM, PE
P.E# 61600

No.	Revisions	By	Date

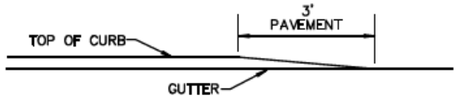
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OLD GERMANTOWN ROAD
SPECIAL DETAILS

SHEET: 69
OF: 177
PROJECT NO. 444377-1



PLAN

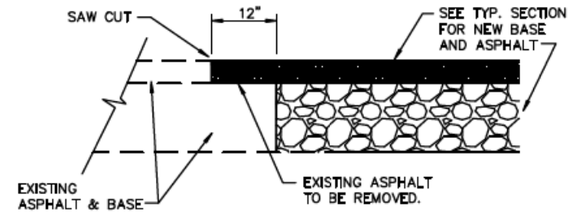


PROFILE

CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444

FLARED END FOR CURB AND GUTTER

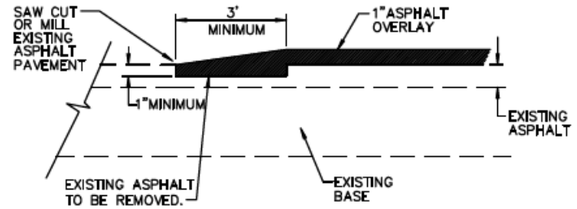
DATE: 09-15-2021
RT 20.0



NEW CONSTRUCTION PAVEMENT JOINT

NOTE:

THIS METHOD OF PAVEMENT JOINT SHALL BE USED FOR ANY APPLICATION OR CONSTRUCTION WHERE PROPOSED PAVEMENT AND BASE WILL BE CONNECTED TO EXISTING PAVEMENT AND BASE.



NEW OVERLAY PAVEMENT JOINT

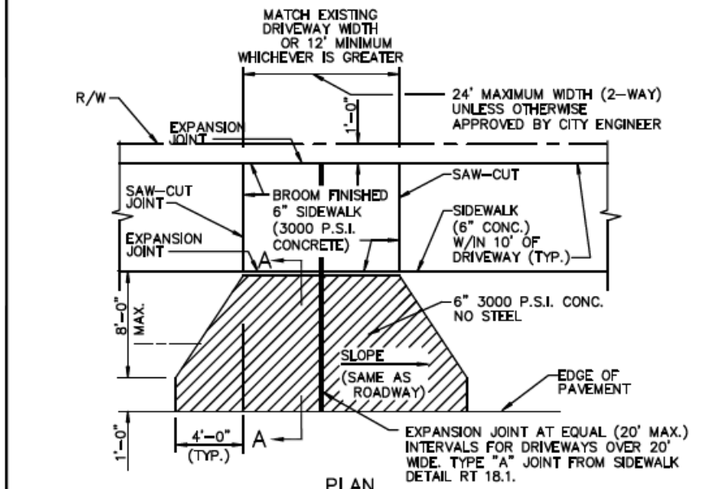
NOTE:

THIS METHOD OF PAVEMENT JOINT SHALL BE USED FOR ANY APPLICATION OR CONSTRUCTION WHERE PROPOSED PAVEMENT WILL BE CONNECTED TO EXISTING PAVEMENT.

CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444

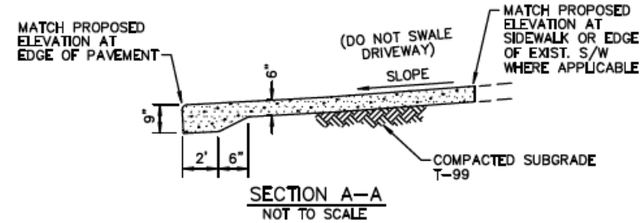
PAVEMENT JOINT DETAIL

DATE: 09-15-2021
RT 21.0



PLAN

NOTE: SIDEWALK SHALL BE CONSTRUCTED THROUGH DRIVEWAY PER DETAILS 18.0 AND 18.1.



SECTION A-A
NOT TO SCALE

NOTE: ALL SIDEWALKS WITH CENTRAL BUSINESS DISTRICT SHALL BE A MINIMUM WIDTH OF 8'

CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444

CONCRETE DRIVEWAY APRON

DATE: 09-15-2021
RT 23.0

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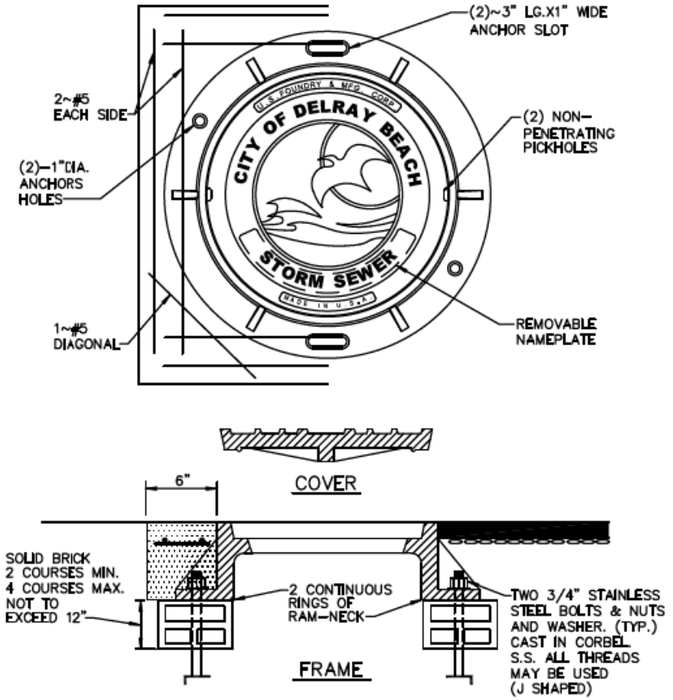
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OLD GERMANTOWN ROAD
SPECIAL DETAILS

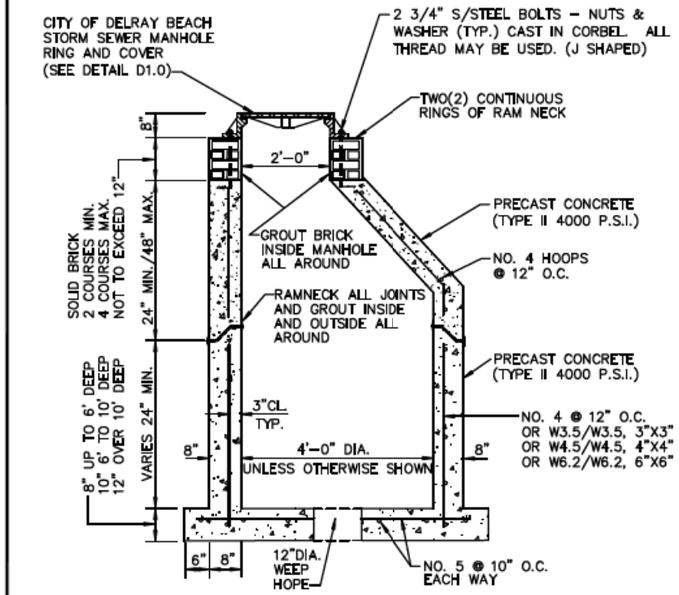
SHEET: 70
OF: 177
PROJECT NO. 444377-1



NOTES:

1. COLLAR IS REQUIRED ONLY WHEN MANHOLE IS OUT OF PAVEMENT.
2. FRAME AND COVER SHALL BE U.S. FOUNDRY MR-ORS AND RING SHALL BE USF 576
3. MANHOLE ADJUSTING RINGS SHALL BE CAST IRON, USF TYPE B.
4. CITY LOGO LID TO BE USED ON CITY MAINTAINED STORM SEWER ONLY. STANDARD NO. 576BH IS TO BE USED ON PRIVATELY MAINTAINED STORM SEWER.

CITY of DELRAY BEACH PUBLIC WORKS DEPARTMENT 434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444	STORM SEWER MANHOLE FRAME & COVER	DATE 09-15-2021 D 1.0

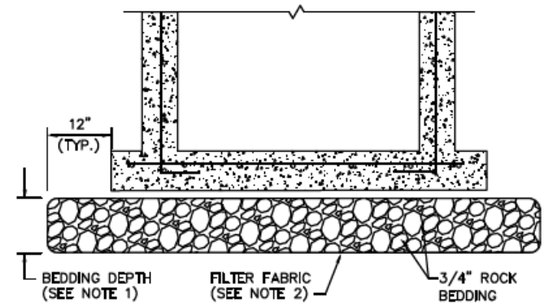


* SEE TYPICAL BACKFILL DETAIL GU 2.0

NOTES:

1. FOR PIPES UP TO 36" R.C.P.
2. 12" DIA. WEEP HOLE REQUIRED ON ALL STRUCTURES WHICH HAVE BOTTOM ELEVATIONS ABOVE THE WATER TABLE. HARDWARE CLOTH SHALL BE PROVIDED ABOVE BEDDING ROCK AND UNDER WEEP HOLE. EXCEPT IN WELL FIELDS.
3. 18" SUMP REQUIRED ON ALL STRUCTURES.
4. IF THE STRUCTURE IS INSTALLED IN WATER TABLE MUST HAVE BEDDING. (SEE DETAIL BEDDING D 4.0)

CITY of DELRAY BEACH PUBLIC WORKS DEPARTMENT 434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444	STORM SEWER MANHOLE	DATE 09-15-2021 D 2.0



NOTES:

1. BEDDING DEPTH SHALL BE 10" UNDER DRAINAGE STRUCTURES AND 18" UNDER SANITARY STRUCTURES.
2. ROCK SHALL BE WRAPPED IN FILTER FABRIC THAT MEETS THE REQUIREMENTS OF F.D.O.T. SPECIFICATION SECTION 985.

CITY of DELRAY BEACH PUBLIC WORKS DEPARTMENT 434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444	STANDARD BEDDING DETAIL	DATE 09-15-2021 D 4.0

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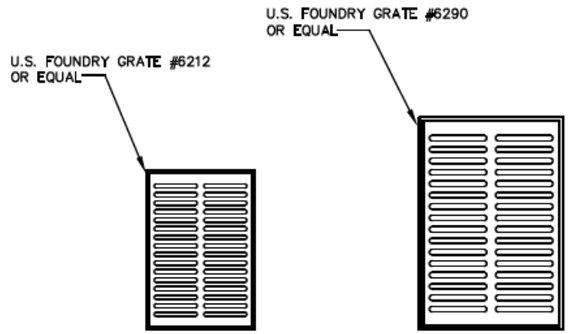
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OLD GERMANTOWN ROAD
SPECIAL DETAILS

SHEET: 71
OF: 177
PROJECT NO. 444377-1

INLET TYPE	DIMENSIONS		GRATE TYPE	MAX. PIPE SIZE	
	A	B		WALL A	WALL B
'C'	2'-0"	3'-1"	U.S. FOUNDRY No. 6212	15" R.C.P.	24" R.C.P.
'E'	3'-0"	4'-5"	U.S. FOUNDRY No. 6290	24" R.C.P.	36" R.C.P.



TYPE "C" TYPE "E"

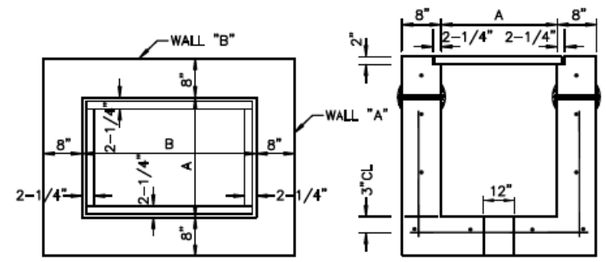
NOTES:

1. ALL GRATES SHALL BE SUITABLE FOR H-20 LOADING (HIGHWAY TRAFFIC LOADS)
2. WHEN INSTALLED IN PAVEMENT OR WITHIN 6' OF PAVEMENT USE U.S.F. 4160-6210

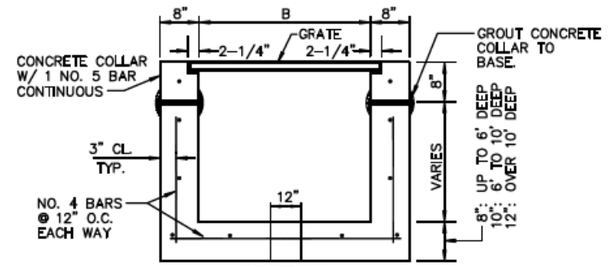
CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444

TYPE C & E INLET GRATE DETAIL

DATE 09-15-2021
D8.0



PLAN SECTION



SECTION * SEE TYPICAL BACKFILL DETAIL GU 2.0

INLET TYPE	DIMENSIONS		GRATE TYPE	MAX. PIPE SIZE	
	A	B		WALL A	WALL B
'C'	2'0"	3'1"	U.S. FOUNDRY NO. 5212	15" R.C.P.	24" R.C.P.
'E'	3'0"	4'6"	U.S. FOUNDRY NO. 5290	24" R.C.P.	36" R.C.P.

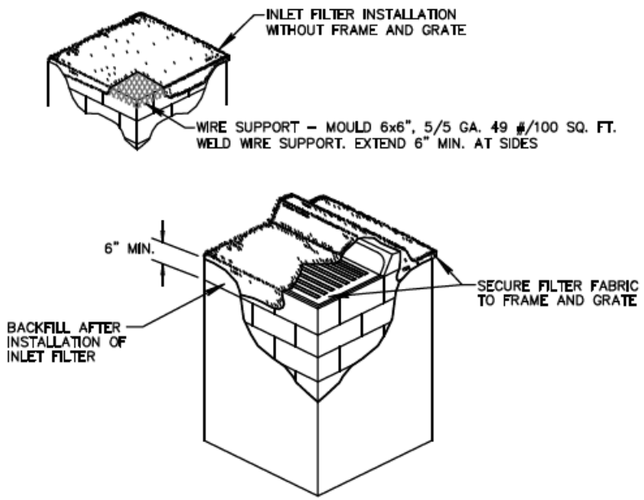
NOTES:

1. INLET TO BE PRECAST WITH CLASS 'A' 4000 P.S.I. CONCRETE.
2. ALL EXPOSED CORNERS AND EDGES TO BE CHAMFERED 3/4".
3. 12" DIAMETER WEEP HOLE REQUIRED ON ALL STRUCTURES WHICH HAVE A BOTTOM ELEVATION ABOVE THE WATER TABLE EXCEPT IN WELLFIELDS.
4. 18" SUMP REQUIRED IN ALL DRAINAGE STRUCTURES.
5. SEE BEDDING DETAIL D 3.0
6. ALL STRUCTURES TO BE 4 SIDED ANGLE SHOULDERS.

CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444

TYPE C& E INLET DETAIL

DATE 09-15-2021
D9.0



NOT TO SCALE

NOTES:

1. CONTRACTOR IS TO CLEAN INLET FILTER AFTER EVERY STORM.
2. CONTRACTOR TO REMOVE FABRIC JUST PRIOR TO PAVING.

A SEDIMENT TRAP WILL BE EXCAVATED BEHIND THE CURB AT THE INLET. THE BASIN SHALL BE AT LEAST 12 TO 14 INCHES IN DEPTH, APPROXIMATELY 36 INCHES IN WIDTH, AND APPROXIMATELY 7 TO 10 FEET IN LENGTH PARALLEL TO THE CURB.

STORM WATER WILL REACH THE SEDIMENT TRAP VIA CURB CUTS ADJACENT TO EACH SIDE OF THE INLET STRUCTURE. THESE OPENINGS SHALL BE AT LEAST 12 INCHES IN LENGTH. STORM WATER MAY ALSO REACH THE BASIN VIA OVERLAND FLOW LAND AREA BEHIND THE CURB. THE CURB CUTS SHALL BE REPAIRED WHEN THE SEDIMENT TRAP IS REMOVED.

CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444

INLET FILTER DETAIL

DATE 09-15-2021
D10.0

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PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:
MAJHARUL ALAM, PE
P.E# 61600

No.	Revisions	By	Date

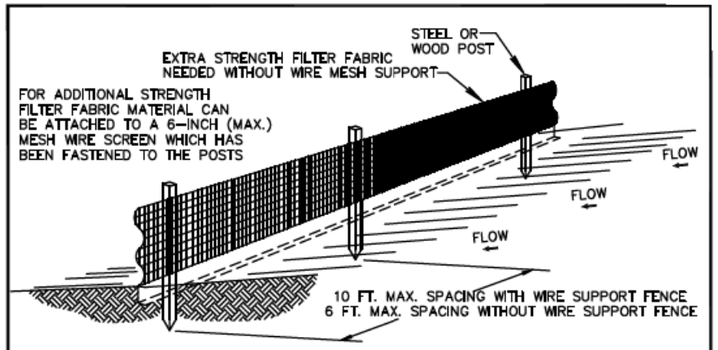
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Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

OLD GERMANTOWN ROAD
SPECIAL DETAILS

SHEET: 72
OF: 177
PROJECT NO. 444377-1

1. THE INTENT OF EROSION CONTROL MEASURES INDICATED GRAPHICALLY ON PLANS IS TO PROVIDE A BARRIER TO CONTAIN SILT AND SEDIMENT ON THE PROJECT SITE. THIS REPRESENTATION IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE TEST OF EROSION CONTROL EFFECTIVENESS IS NOT TO BE DETERMINED BY ADHERENCE TO THE REPRESENT SET FORTH ON THE DRAWINGS AND SPECIFICATIONS, BUT BY MEETING THE REGULATIONS SET FORTH BY THE AUTHORITY HAVING JURISDICTION OVER WATER QUALITY CONTROL AND OTHER SEDIMENTATION RESTRICTION REQUIREMENTS IN THE REGION.
2. APPROVED EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY CLEARING GRADING, EXCAVATION, FILLING, OR OTHER LAND DISTURBANCE ACTIVITIES, EXCEPT THOSE OPERATIONS NEEDED TO INSTALL SUCH MEASURES.
3. INSPECTION OF ALL EROSION CONTROL MEASURES SHALL BE CONDUCTED WEEKLY, OR AFTER EACH RAINFALL EVENT. REPAIR, AND/OR REPLACEMENT OF SUCH MEASURES SHALL BE MADE PROMPTLY, AS NEEDED.
4. KEEP DUST WITHIN TOLERABLE LIMITS BY SPRINKLING OR OTHER ACCEPTABLE MEANS.
5. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED IF DEEMED NECESSARY BY ONSITE INSPECTION.
6. FAILURE TO PROPERLY INSTALL AND MAINTAIN EROSION CONTROL PRACTICES SHALL RESULT IN CONSTRUCTION BEING HALTED.
7. DRAINAGE INLETS SHALL BE PROTECTED BY FILTER AND GRADED ROCK AS PER INLET PROTECTION DETAIL.
8. ANY ACCESS ROUTES TO SITE SHALL BE BASED WITH CRUSHED STONE, WHERE PRACTICAL.
9. EROSION CONTROL MEASURES ARE TO BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
10. WHENEVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED AND PROTECTED.
11. ALL WORK IS TO BE IN COMPLIANCE WITH THE RULES AND REGULATIONS SET FORTH BY THE STATE OF FLORIDA, DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THE CITY OF DELRAY BEACH.
12. DISCHARGE FROM DEWATERING OPERATIONS SHALL BE RETAINED ONSITE IN A CONTAINMENT AREA.

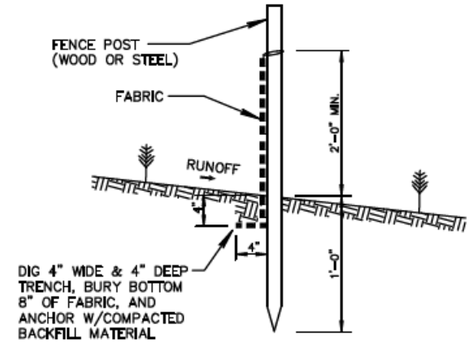
CITY of DELRAY BEACH PUBLIC WORKS DEPARTMENT 434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444	EROSION CONTROL NOTES DETAIL	DATE: 09-15-2021 D 11.0



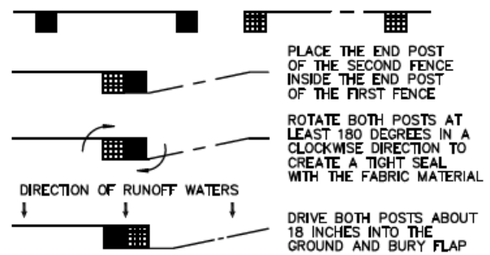
NOTES:

1. THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES.
2. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS.
3. POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 12 INCHES. WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET.
4. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES WIDE AND 4 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
5. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRES, OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
6. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
7. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.
8. ALL PROJECTS REQUIRE SUBMITTAL OF POLLUTION PREVENTION PLAN (PPP).
9. ALL PROJECTS 1 AC. OR MORE MUST SUBMIT NOTICE OF INTENT (NOI) TO FDEP.

CITY of DELRAY BEACH PUBLIC WORKS DEPARTMENT 434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444	SILT FENCE INSTALLATION DETAIL (SHEET 1 of 2)	DATE: 09-15-2021 D12.0



SILT FENCE SECTION
NOT TO SCALE



ATTACHING TWO SILT FENCES
NOT TO SCALE

CITY of DELRAY BEACH PUBLIC WORKS DEPARTMENT 434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444	SILT FENCE INSTALLATION DETAIL (SHEET 2 OF 2)	DATE: 09-15-2021 D 12.1

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WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:
MAJHARUL ALAM, PE
P.E# 61600

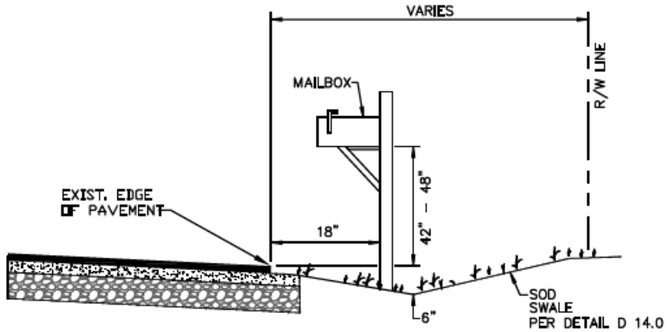
No.	Revisions	By	Date

CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
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Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

OLD GERMANTOWN ROAD
SPECIAL DETAILS

SHEET: 73
OF: 177
PROJECT NO. 444377-1

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NOTE:

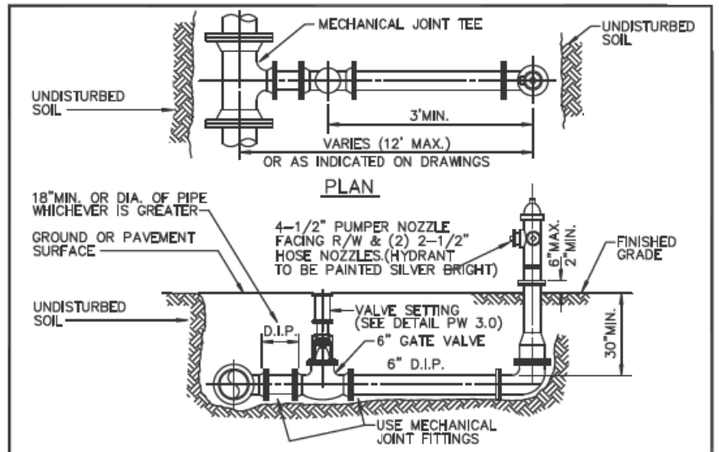
MAILBOX SHALL BE LOCATED NEAR THE DRIVEWAY ON THE WIDEST SIDE OF THE FRONTAGE

NOT TO SCALE

CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444

MAILBOX REPLACEMENT AND 6" SODDED SWALE DETAIL

DATE 09-15-2021
D 15.0



NOTES:

1. HYDRANT SHALL BE INSTALLED PLUMB AND TRUE IN UNOBSTRUCTED LOCATION. (7.5' CLEARANCE ON THREE SIDES, 4' CLEARANCE AT REAR, WITH 3' ACCESS LANE)
2. NO BARREL EXTENSION SHALL BE PERMITTED.
3. VALVE SHALL BE PLACED ADJACENT TO MAIN.
4. ANCHOR TEES AND FITTINGS ARE PERMITTED.
5. HYDRANT SHALL BE MUELLER SUPER CENTURION, AA423 5¼" WITH TRAFFIC BREAKAWAY FLANGE AND 5¼" VALVE.
6. HYDRANTS SHALL NOT ENCROACH IN SIDEWALKS, ROADWAYS, OR BIKE PATHS.
7. ON RUNS LONGER THAN 20 FEET A SECOND VALVE IS REQUIRED AT THE HYDRANT.
8. ALL HYDRANT INSTALLATION SHALL BE IN ACCORDANCE WITH CITY OF DELRAY BEACH FIRE PREVENTION CODE SEC. 96.05.
9. IN CERTAIN SITUATIONS, PROTECTIVE BOLLARDS MAY BE REQUIRED AS DIRECTED BY THE ENGINEERING DEPT. (SEE BOLLARD DETAIL PW 7.0)
10. FIRE HYDRANTS INSTALLED BUT NOT YET IN SERVICE SHALL BE COVERED WITH A BURLAP, OR PLASTIC SACK, OR HAVE OUT OF SERVICE RING IN PLACE.
11. ALL HYDRANT LEADS GREATER THAN 20-FEET MUST HAVE AUTOMATIC FLUSHER INSTALLED AT HYDRANT END (KUPFERLE #9400-WC STANDARD).
12. REMOVE CHAINS FROM HYDRANT AND PAINT SHERWIN WILLIAMS SILVER BRITE.
13. NO THRUST BLOCKS SHALL BE PERMITTED.

CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444

TYPICAL FIRE HYDRANT INSTALLATION

DATE 09-15-2021
PW 6.0

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FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:

MAJHARUL ALAM, PE
P.E# 61600

No.	Revisions	By	Date

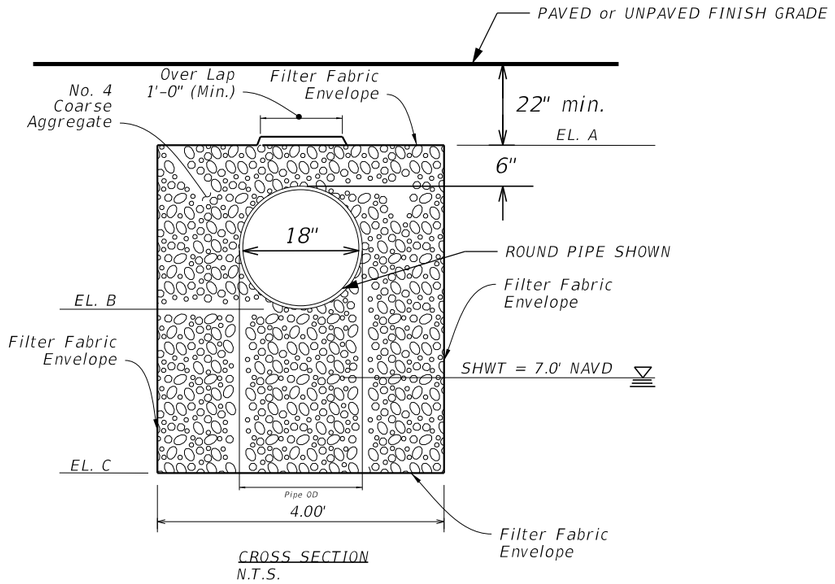
CITY of DELRAY BEACH
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Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

OLD GERMANTOWN ROAD

SPECIAL DETAILS

SHEET: 74
OF: 177
PROJECT NO. 444377-1

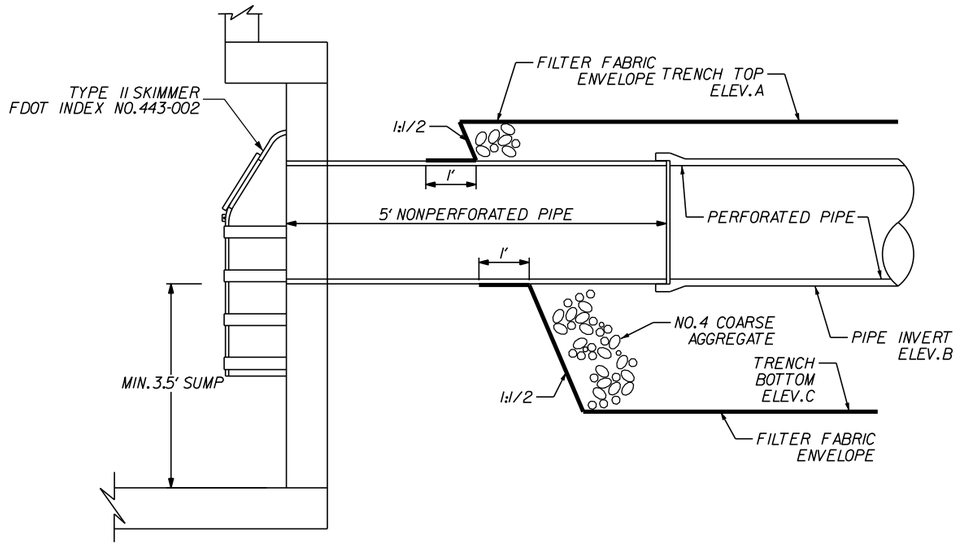
FRENCH DRAIN (EXFILTRATION TRENCH) DETAIL



CROSS SECTION
N.T.S.

NOTE:

1. 4'-0" NON PERFORATED OR NON SLOTTED PIPE SHALL BE CONSTRUCTED AT EACH END OF THE PERFORATED OR SLOTTED PIPE BEFORE CONNECTING TO THE INLET OR MANHOLE.
2. FOR ADDITIONAL REQUIREMENTS REFER TO FDOT INDEX 443-001.



FRENCH DRAIN DATA:

STR. No.	STATION/OFF	SIDE	DIRECTION	LENGTH	FD TOP EL. A	PIPE INV. EL. B	FD BOTTOM EL. C	FD WIDTH
S-3	25+00.00/18.50'	LT	EAST	20'	14.30	12.30	9.30	4.00'
S-4	27+20.00/18.50'	LT	EAST	20'	13.80	11.80	8.80	4.00'
S-5	31+00.00/16.70'	LT	EAST	20'	13.20	11.20	8.20	4.00'
S-6	32+20.00/12.00'	RT	EAST	80'	13.50	11.50	8.50	4.00'
S-7	33+00.00/14.19'	RT	WEST	80'	13.80	11.80	8.80	4.00'
S-8	34+00.00/16.19'	LT	EAST	100'	13.30	11.30	8.30	4.00'
S-9	35+00.00/16.19'	LT	WEST	100'	14.10	12.10	9.10	4.00'
S-10	50+80.00/10.00'	LT	EAST	20'	14.30	12.30	9.30	4.00'
S-11	53+00.00/16.84'	RT	EAST	20'	13.80	11.80	8.80	4.00'

FRENCH DRAIN DATA:

STR. No.	STATION/OFF	SIDE	DIRECTION	LENGTH	FD TOP EL. A	PIPE INV. EL. B	FD BOTTOM EL. C	FD WIDTH
S-14	68+30.00/14.92'	RT	WEST	20'	14.80	11.20	7.70	4.00'
S-15	69+60.00/14.92'	RT	EAST	20'	15.70	12.10	8.60	4.00'
S-16	74+94.28/23.88'	RT	WEST	50'	15.00	9.20	5.70	4.00'
S-19	74+44.28/23.88'	RT	EAST	50'	15.10	9.30	5.80	4.00'
S-25	86+80.00/13.00'	LT	NORTH	20'	11.90	9.90	6.40	4.00'
S-26	87+00.00/18.50'	RT	NORTH	20'	11.90	9.90	6.40	4.00'
S-28	92+00.00/15.00'	LT	NORTH	20'	13.10	11.10	8.10	4.00'
S-30	99+35.73/19.40'	LT	SOUTH	20'	15.50	13.50	10.50	4.00'

ELEVATIONS ARE IN NAVD '88 DATUM

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WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
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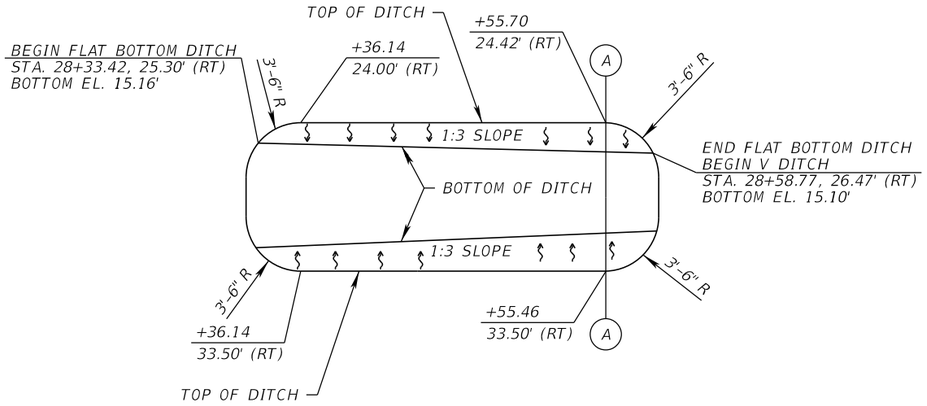
Seal:
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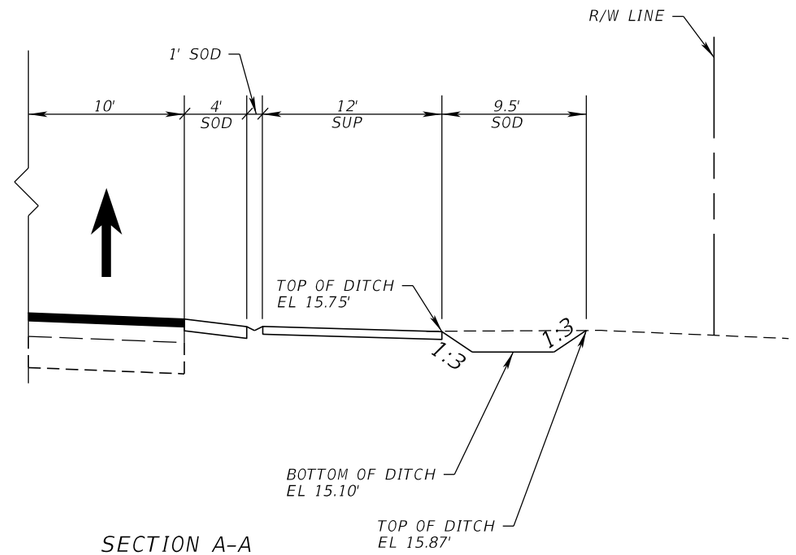
CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

OLD GERMANTOWN ROAD
SPECIAL DETAILS

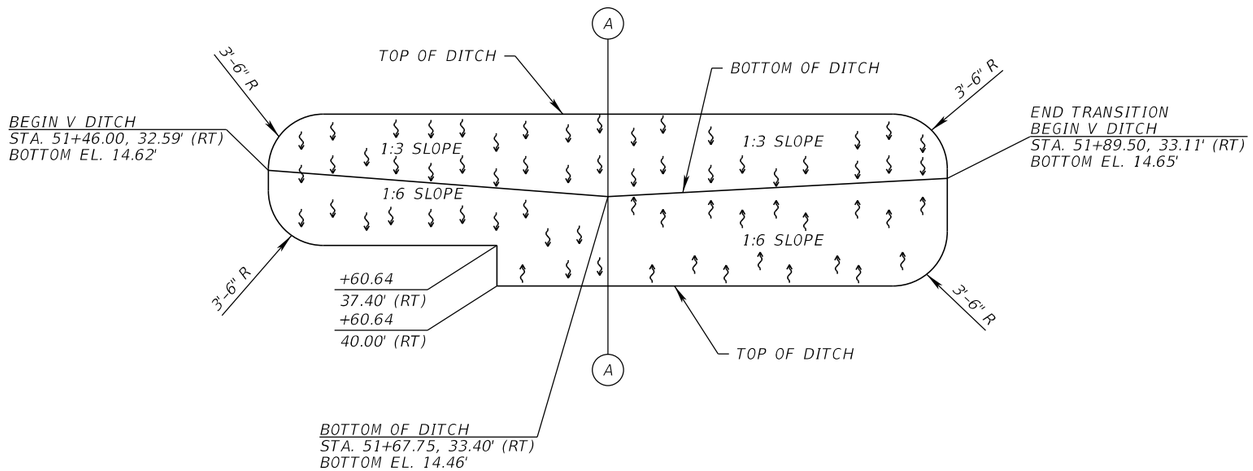
SHEET: 75
OF: 177
PROJECT NO. 444377-1



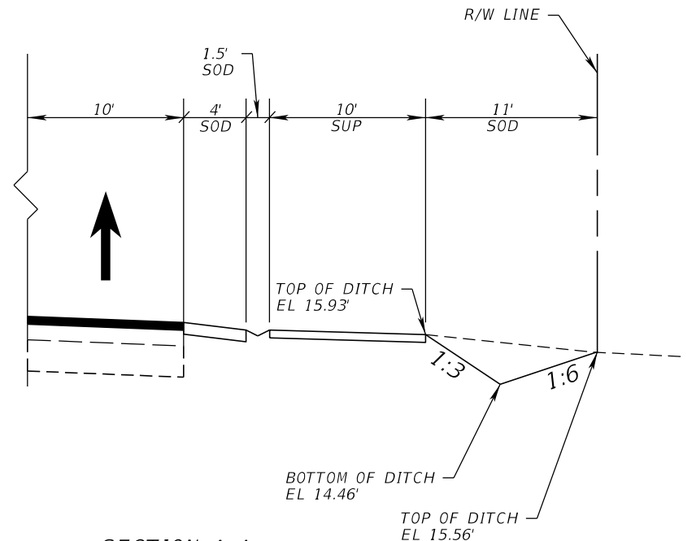
DITCH DETAIL 1
OLD GERMANTOWN ROAD
STA. 28+33.42 TO 28+58.77



SECTION A-A



DITCH DETAIL 2
OLD GERMANTOWN ROAD
STA. 51+46.00 TO 51+89.50



SECTION A-A

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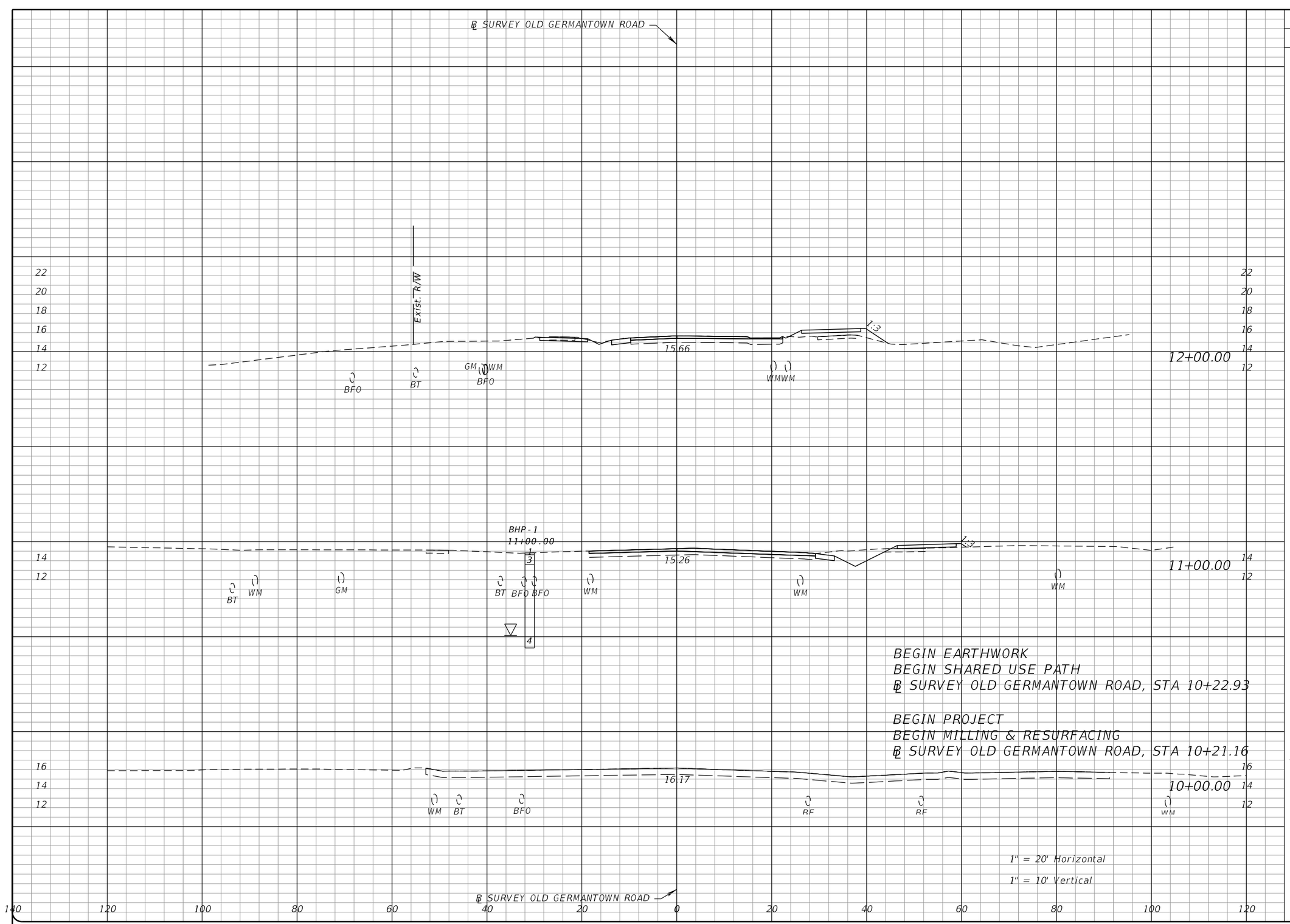
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OLD GERMANTOWN ROAD
SPECIAL DETAILS

SHEET: 76
OF: 177
PROJECT NO. 444377-1



Regular Exc.		Embankment	
A	V	A	V
6.57	38.31	12.90	34.27
14.12	60.44	5.60	23.99
28.23	11.99	11.21	4.76

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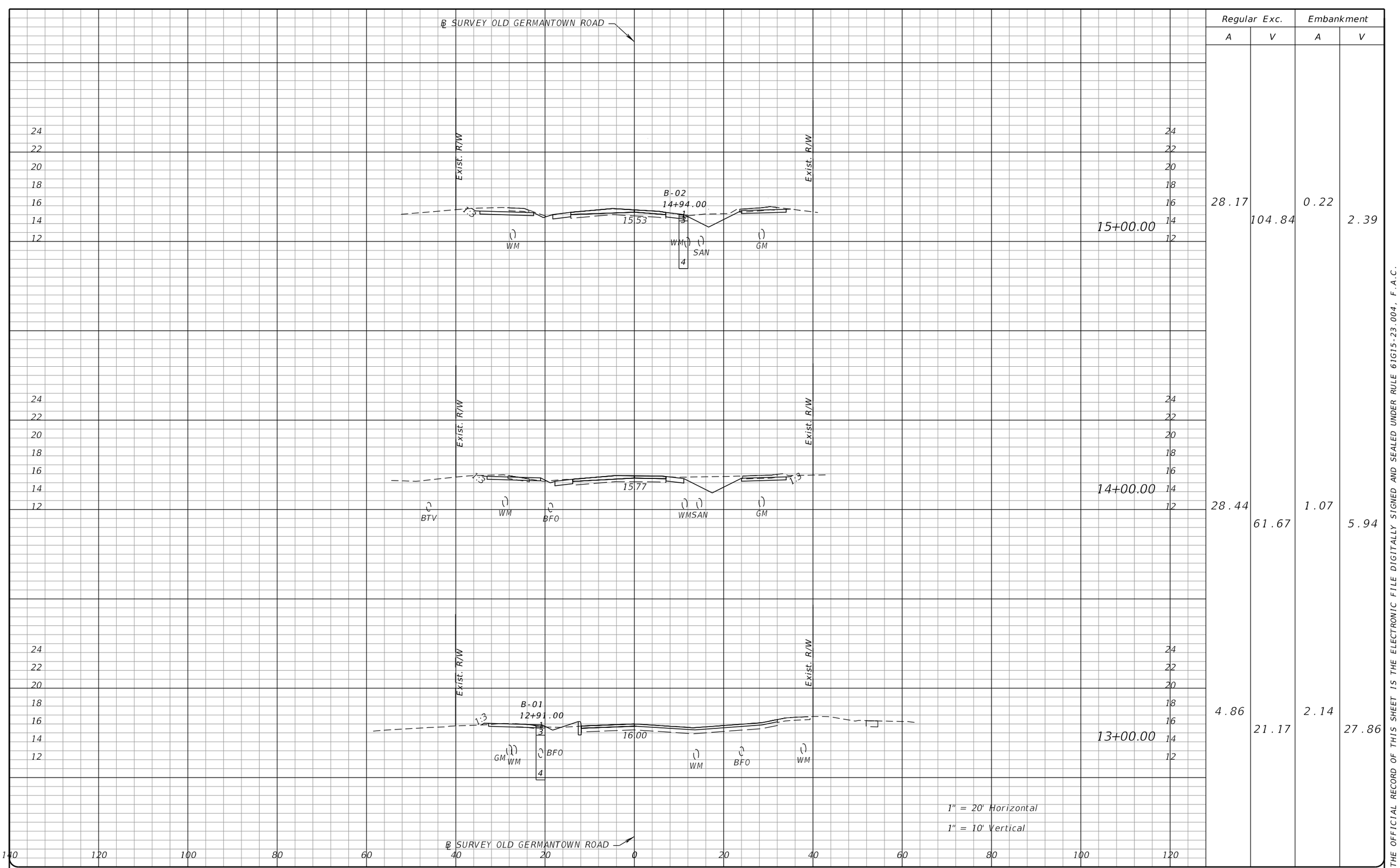
OLD GERMANTOWN ROAD

CROSS SECTIONS

SHEET: 77
OF: 177
PROJECT NO. 444377-1

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Regular Exc.		Embankment	
A	V	A	V
28.17	104.84	0.22	2.39
28.44	61.67	1.07	5.94
4.86	21.17	2.14	27.86

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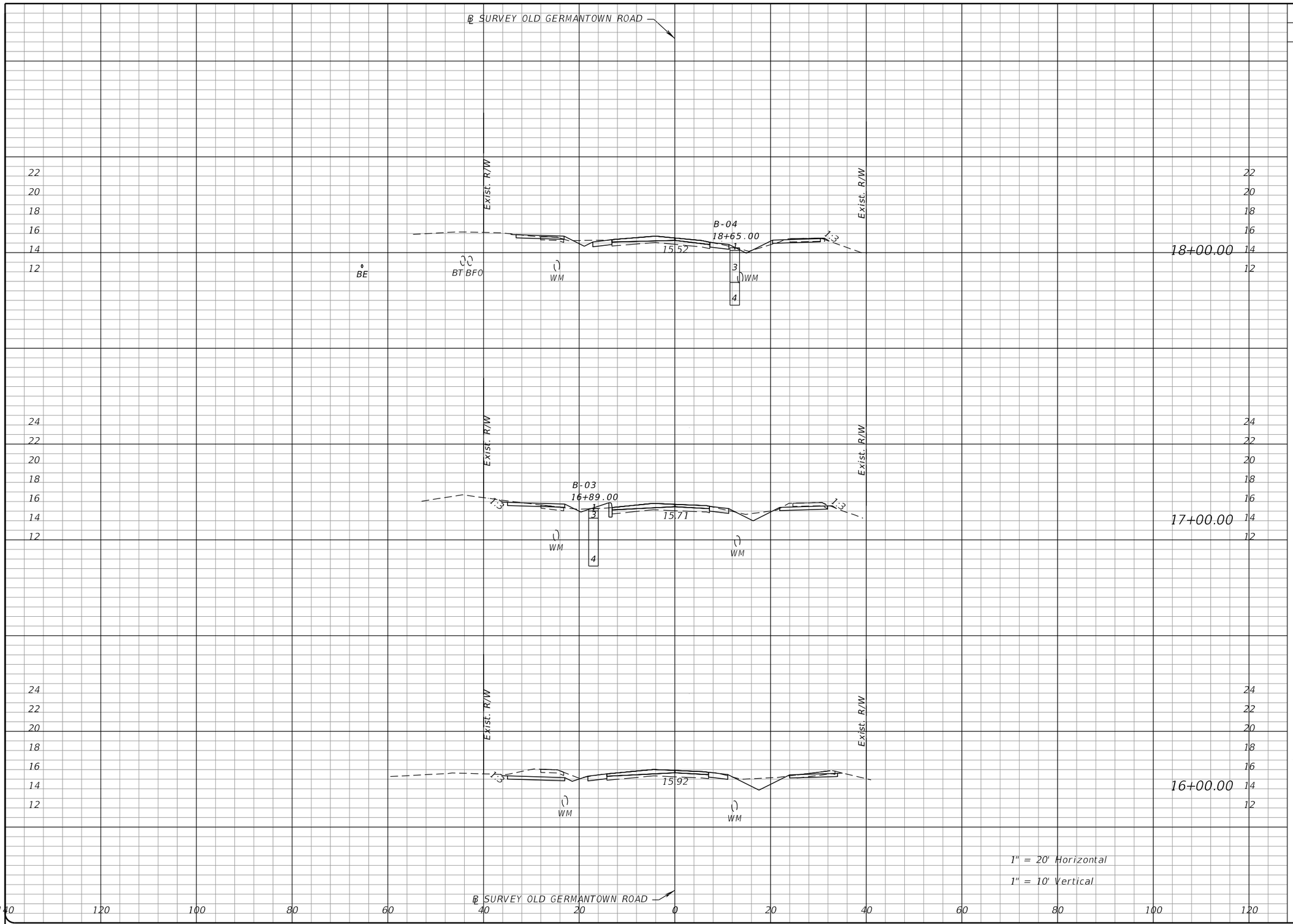
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OLD GERMANTOWN ROAD
CROSS SECTIONS

SHEET: 78
OF: 177
PROJECT NO. 444377-1

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Regular Exc.		Embankment	
A	V	A	V
11.36	48.59	3.55	14.40
14.87	79.09	4.23	8.64
27.84	103.71	0.44	1.22

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PROPEL

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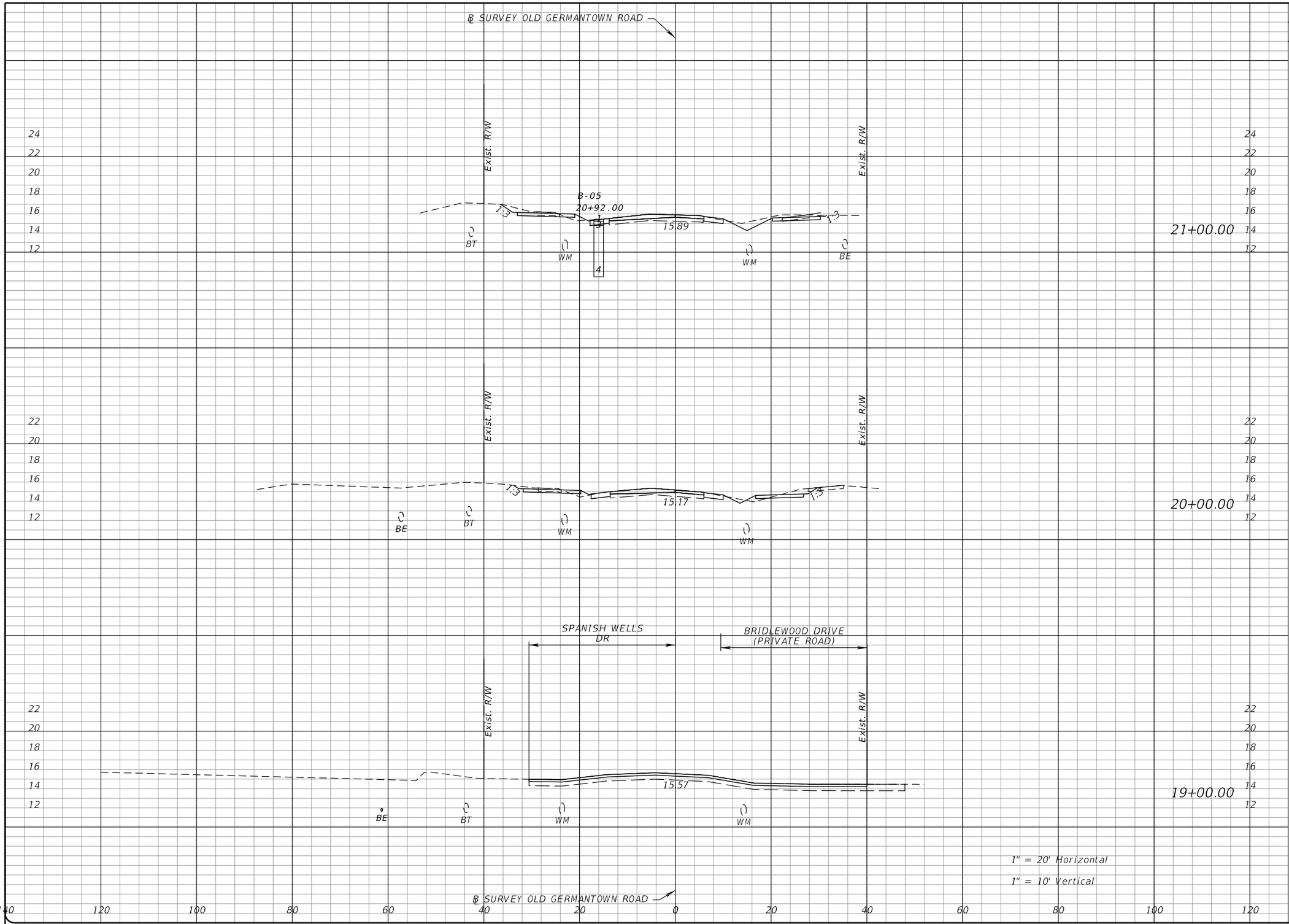
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OLD GERMANTOWN ROAD

CROSS SECTIONS

SHEET: 79
OF: 177
PROJECT NO. 444377-1

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Regular Exc.		Embankment	
A	V	A	V
19.46	61.04	2.44	13.39
13.50	25.00	4.79	8.87
0.00	21.04	0.00	6.57

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MAJHARUL ALAM, PE
P.E# 61600

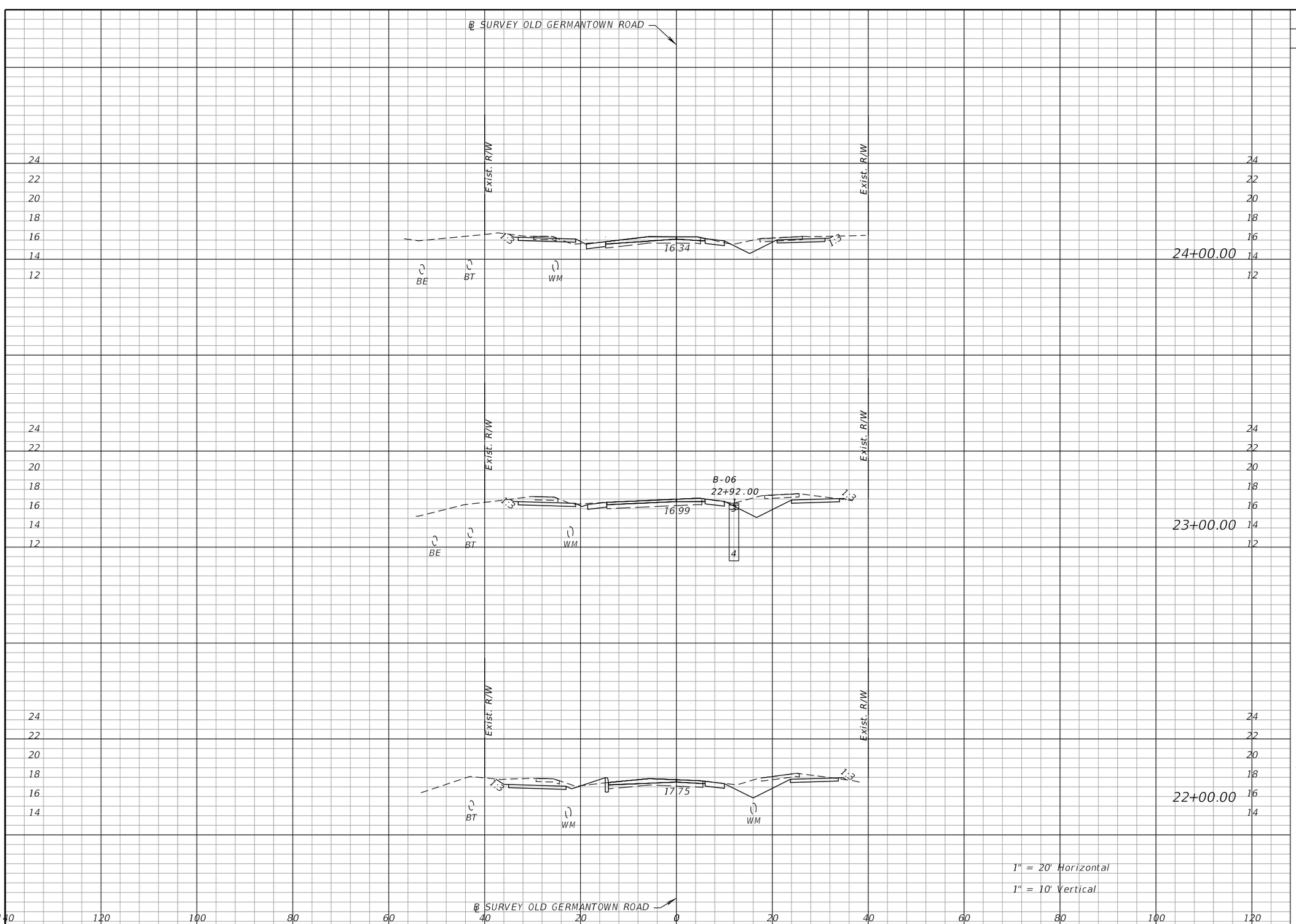
No.	Revisions	By	Date

CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

OLD GERMANTOWN ROAD

CROSS SECTIONS

SHEET: 80
OF: 177
PROJECT NO. 444377-1



Regular Exc.		Embankment	
A	V	A	V
21.44		2.18	
	108.34		4.89
37.07		0.46	
	137.32		4.30
37.09		1.87	
	104.72		7.98

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PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:

MAJHARUL ALAM, PE
P.E# 61600

No.	Revisions	By	Date

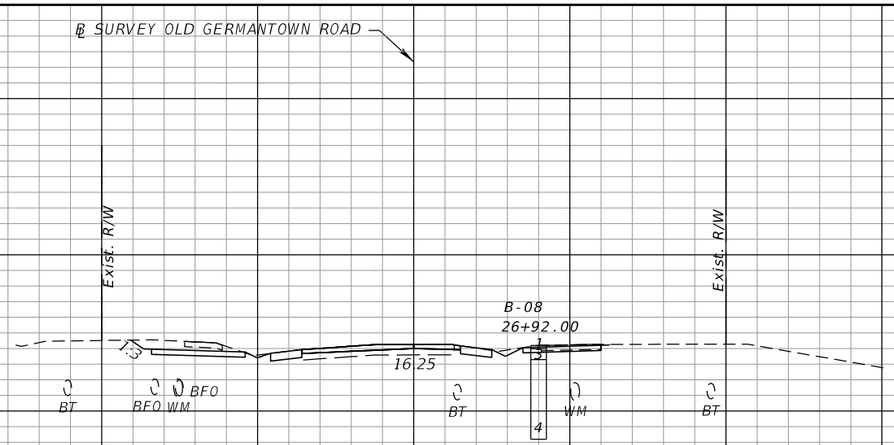
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OLD GERMANTOWN ROAD

CROSS SECTIONS

SHEET: 81
OF: 177
PROJECT NO. 444377-1

F:\2240010200-Germantown_Complete_St\44437715801\roadway\RDXSRD01.dgn
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Station	Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
27+00.00	19.53	76.16	0.14	2.67
26+00.00	21.60	81.67	1.30	2.89
25+00.00	22.50	81.37	0.27	4.54

1" = 20' Horizontal

1" = 10' Vertical

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PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:

MAJHARUL ALAM, PE
P.E# 61600

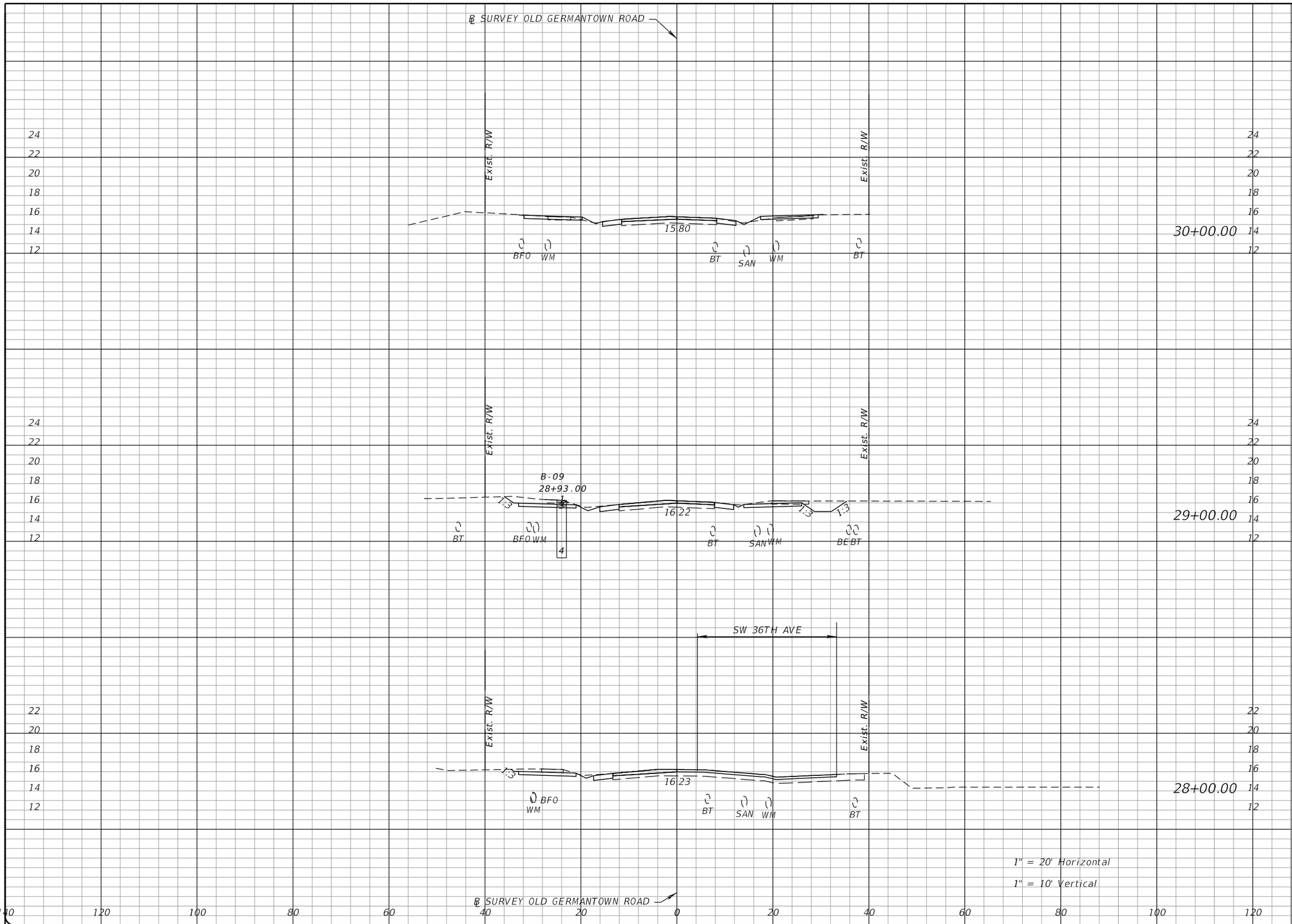
No.	Revisions	By	Date

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OLD GERMANTOWN ROAD

CROSS SECTIONS

SHEET: 82
OF: 177
PROJECT NO. 444377-1



Regular Exc.		Embankment	
A	V	A	V
9.30	71.89	4.00	7.40
29.52	73.61	0.00	0.02
10.23	55.10	0.01	0.29

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PROPEL

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2711 N VISTA PARKWAY, SUITE NO. B7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:

MAJHARUL ALAM, PE
P.E# 61600

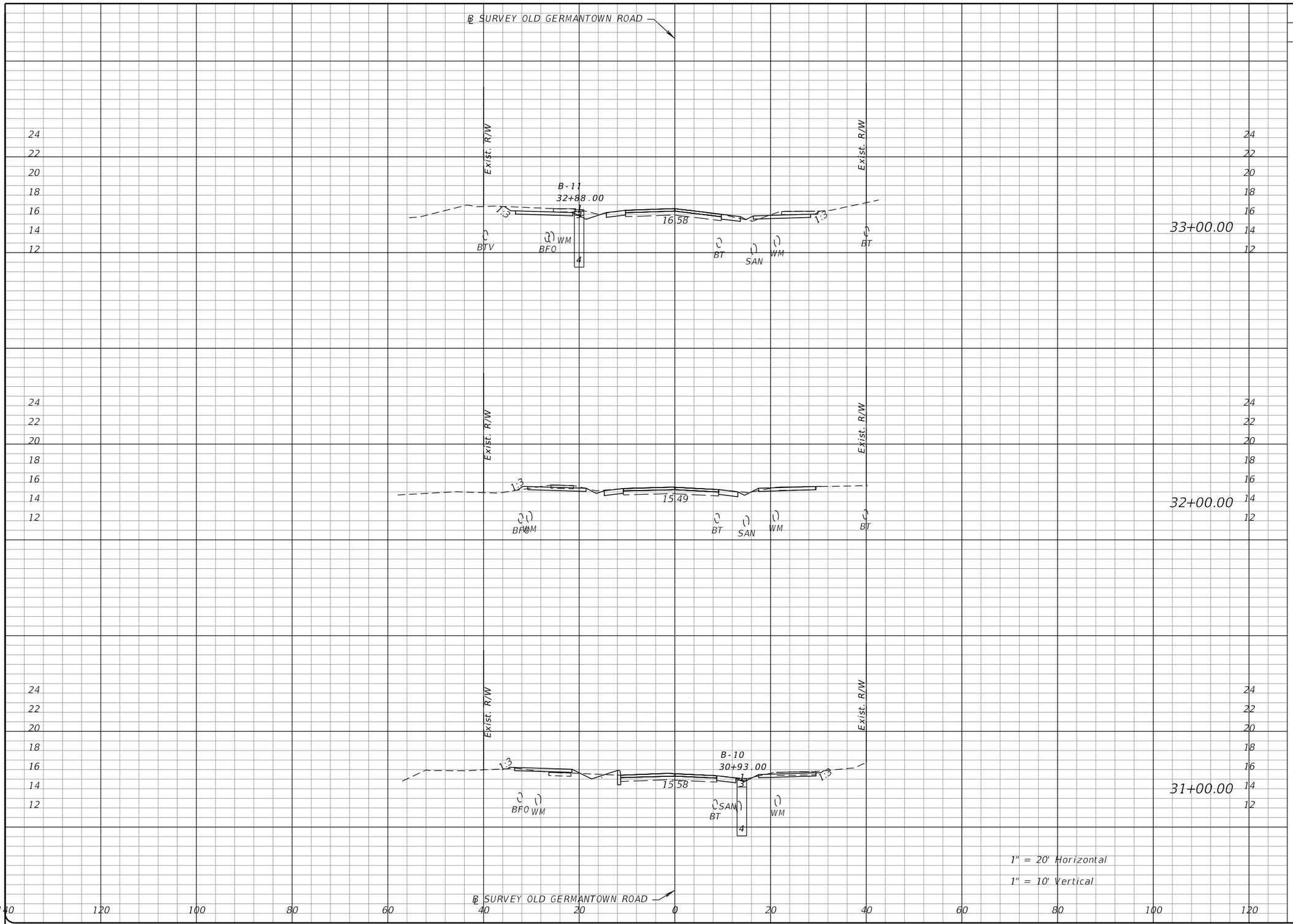
No.	Revisions	By	Date

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OLD GERMANTOWN ROAD

CROSS SECTIONS

SHEET: 83
OF: 177
PROJECT NO. 444377-1



Regular Exc.		Embankment	
A	V	A	V
22.11	67.58	1.94	6.04
14.39	47.05	1.32	12.35
11.02	37.64	5.35	17.31

1" = 20' Horizontal

1" = 10' Vertical

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WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:
MAJHARUL ALAM, PE
P.E# 61600

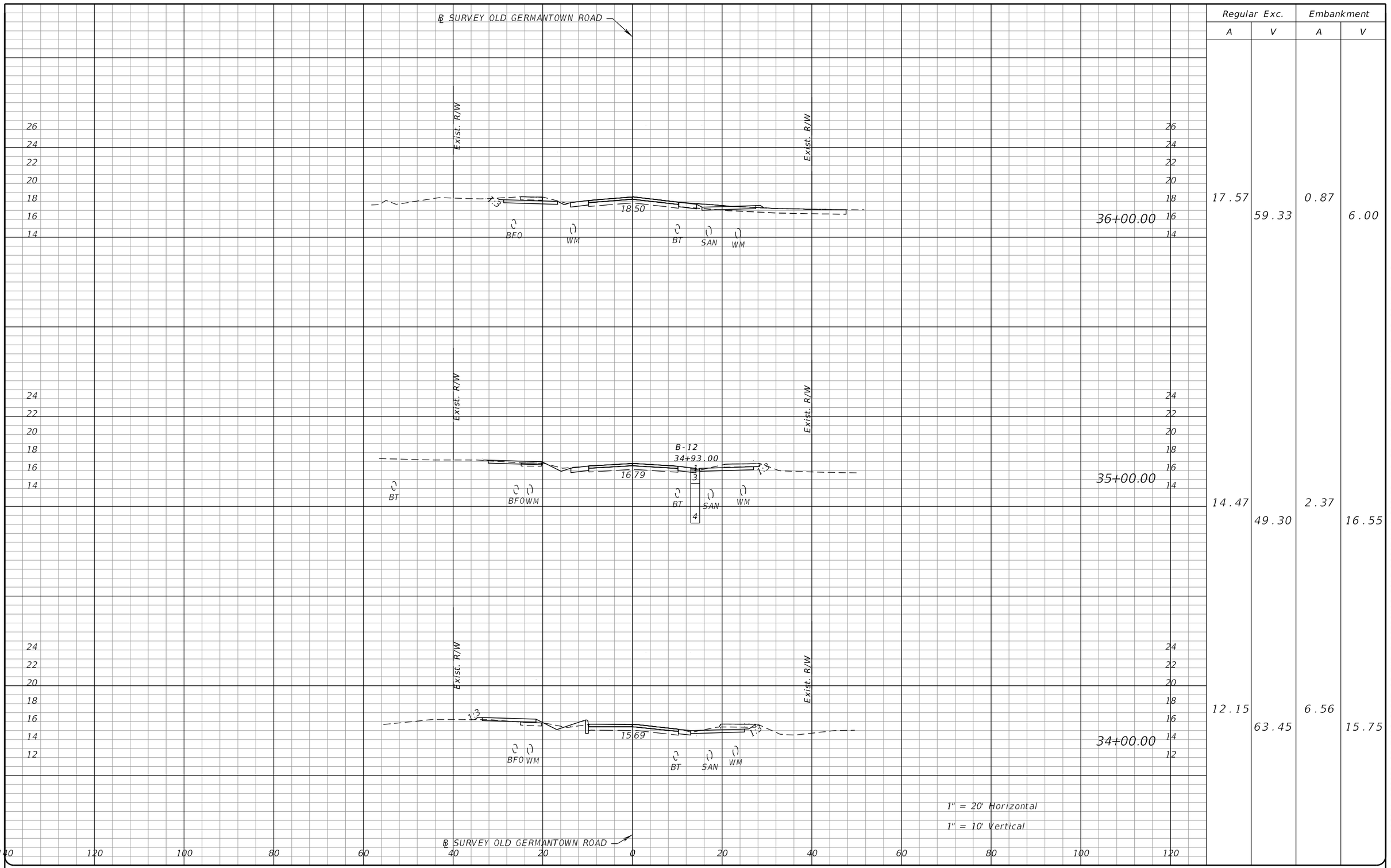
No.	Revisions	By	Date

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OLD GERMANTOWN ROAD
CROSS SECTIONS

SHEET: 84
OF: 177
PROJECT NO. 444377-1

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Regular Exc.		Embankment	
A	V	A	V
17.57	59.33	0.87	6.00
14.47	49.30	2.37	16.55
12.15	63.45	6.56	15.75

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PROPEL

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WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:

MAJHARUL ALAM, PE
P.E# 61600

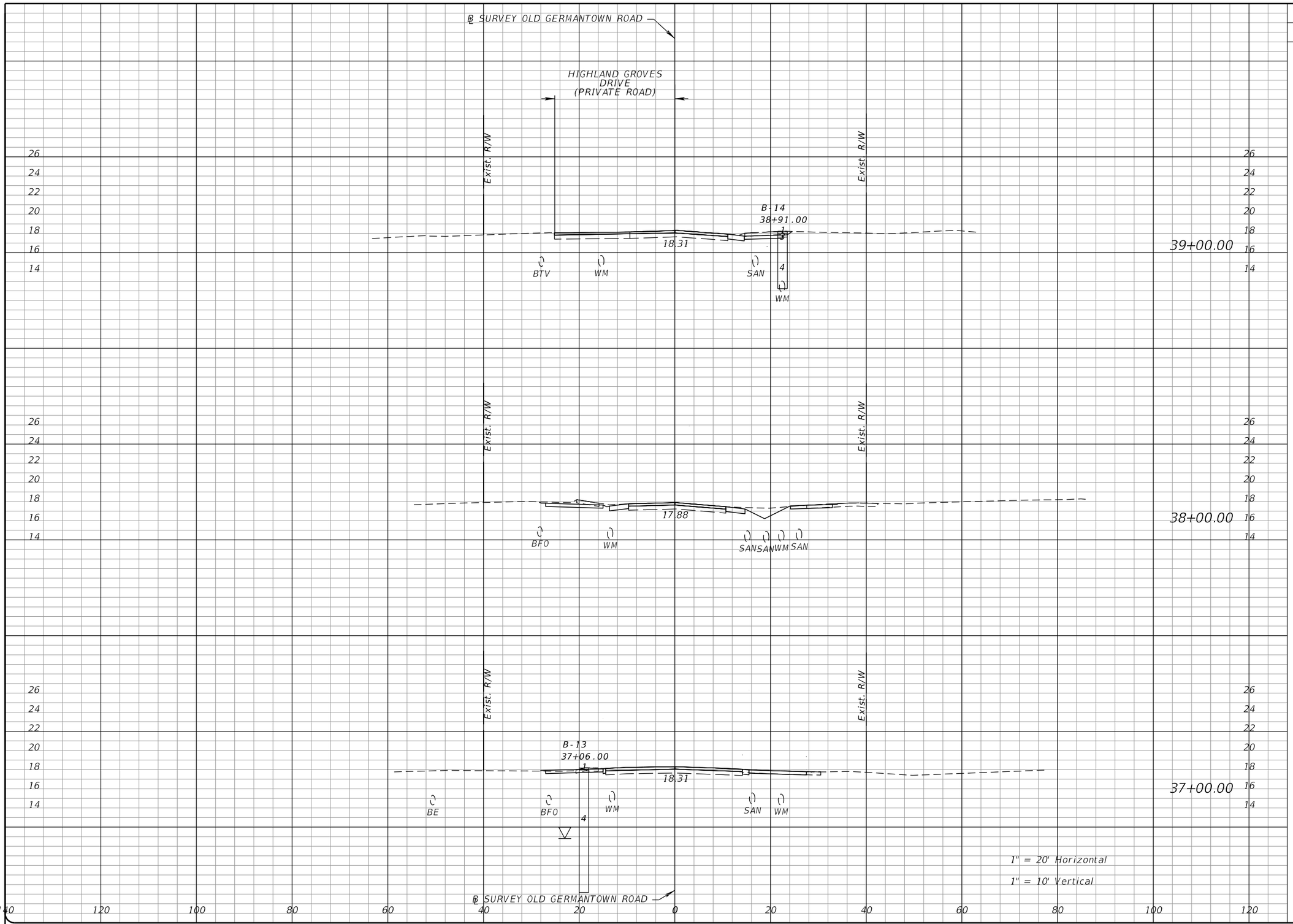
No.	Revisions	By	Date

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OLD GERMANTOWN ROAD

CROSS SECTIONS

SHEET: 85
OF: 177
PROJECT NO. 444377-1



Regular Exc.		Embankment	
A	V	A	V
8.02	51.75	0.00	0.24
19.93	53.33	0.13	1.73
8.87	48.96	0.81	3.10

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2711 N VISTA PARKWAY, SUITE NO. B7
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FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:
MAJHARUL ALAM, PE
P.E# 61600

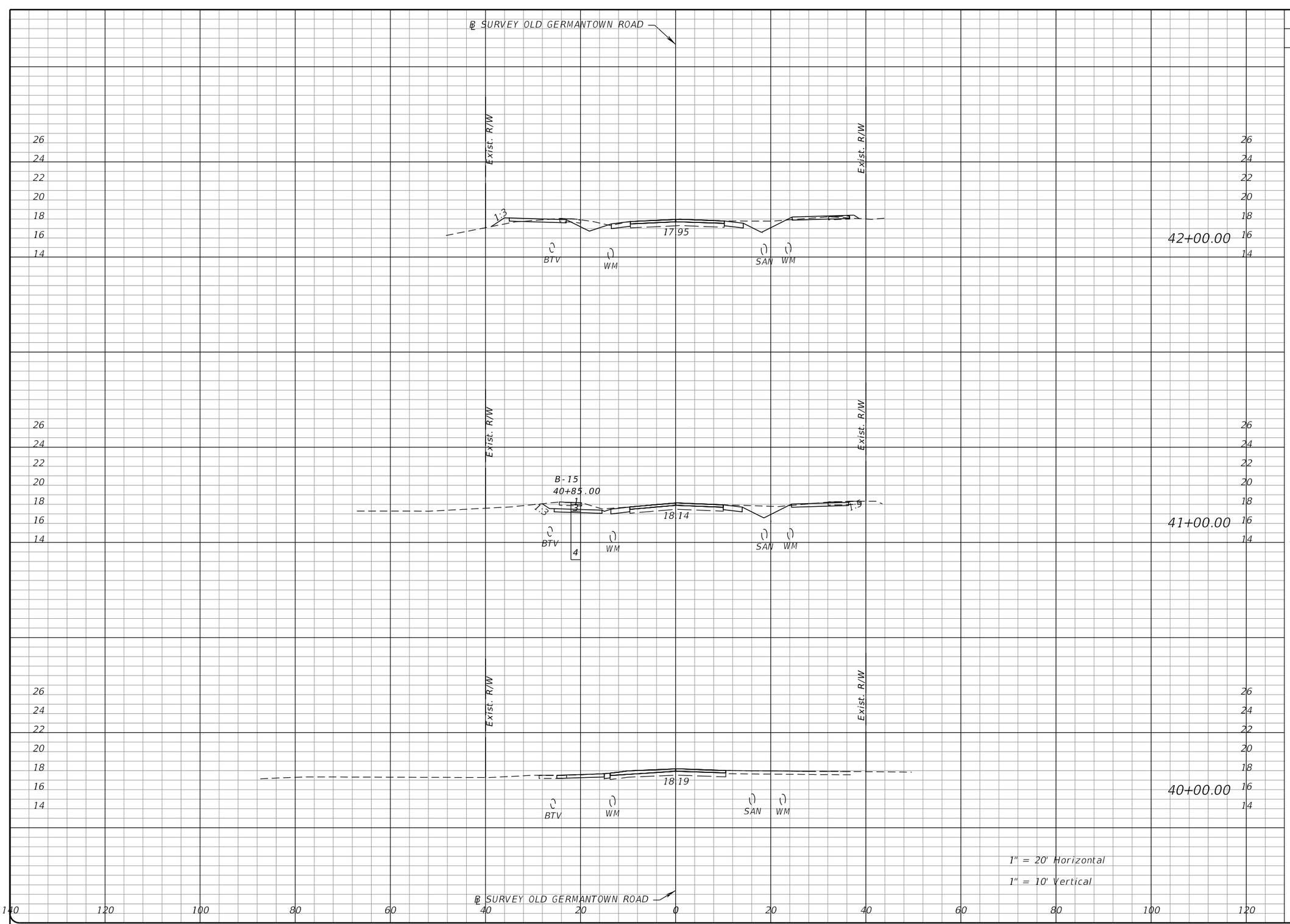
No.	Revisions	By	Date

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OLD GERMANTOWN ROAD
CROSS SECTIONS

SHEET: 86
OF: 177
PROJECT NO. 444377-1

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Regular Exc.		Embankment	
A	V	A	V
18.97	82.48	6.92	13.50
25.58	54.45	0.38	1.04
3.83	21.93	0.18	0.34

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PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

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MAJHARUL ALAM, PE
P.E# 61600

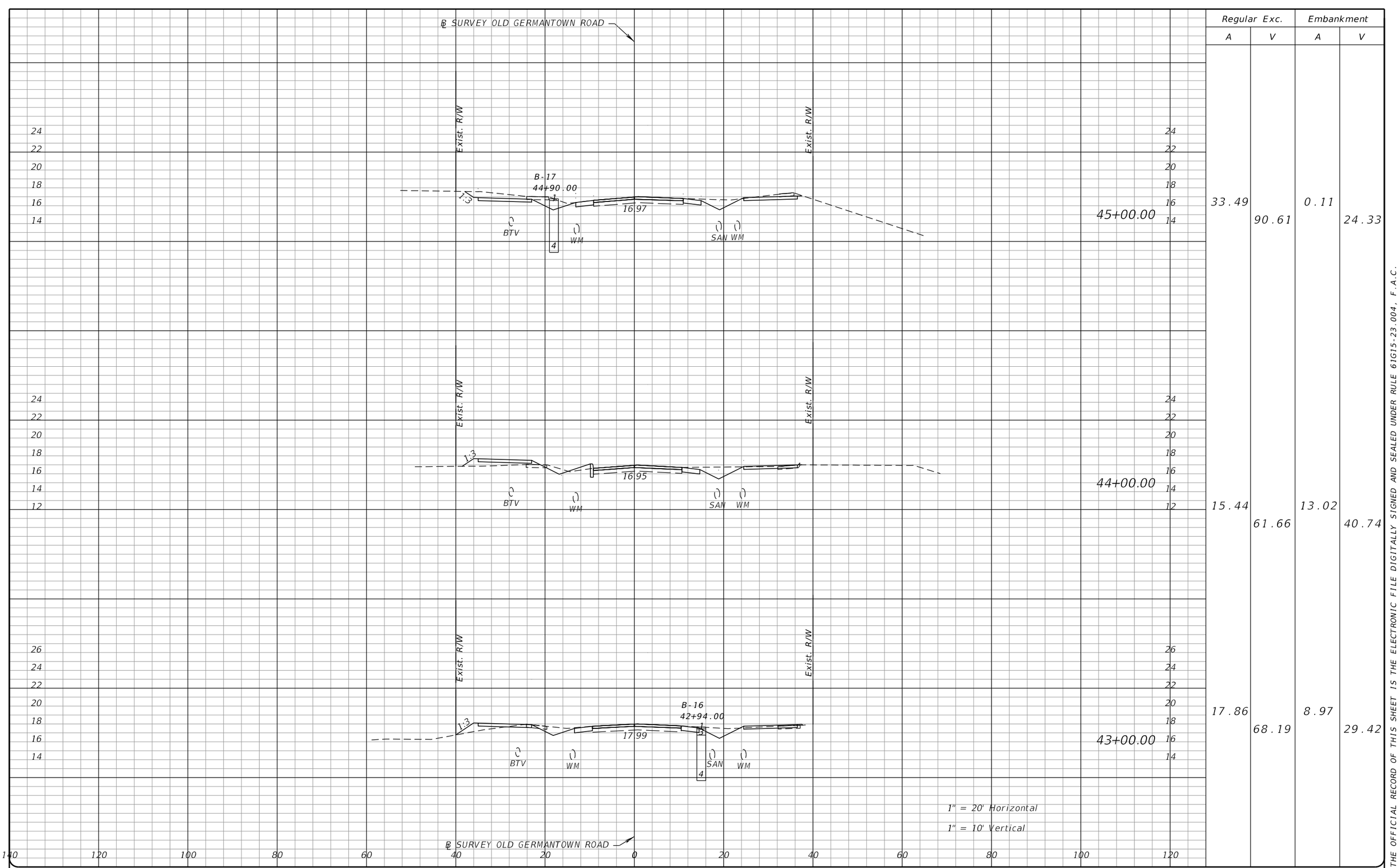
No.	Revisions	By	Date

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OLD GERMANTOWN ROAD

CROSS SECTIONS

SHEET: 87
OF: 177
PROJECT NO. 444377-1



Regular Exc.		Embankment	
A	V	A	V
33.49	90.61	0.11	24.33
15.44	61.66	13.02	40.74
17.86	68.19	8.97	29.42

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FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:

MAJHARUL ALAM, PE
P.E# 61600

No.	Revisions	By	Date

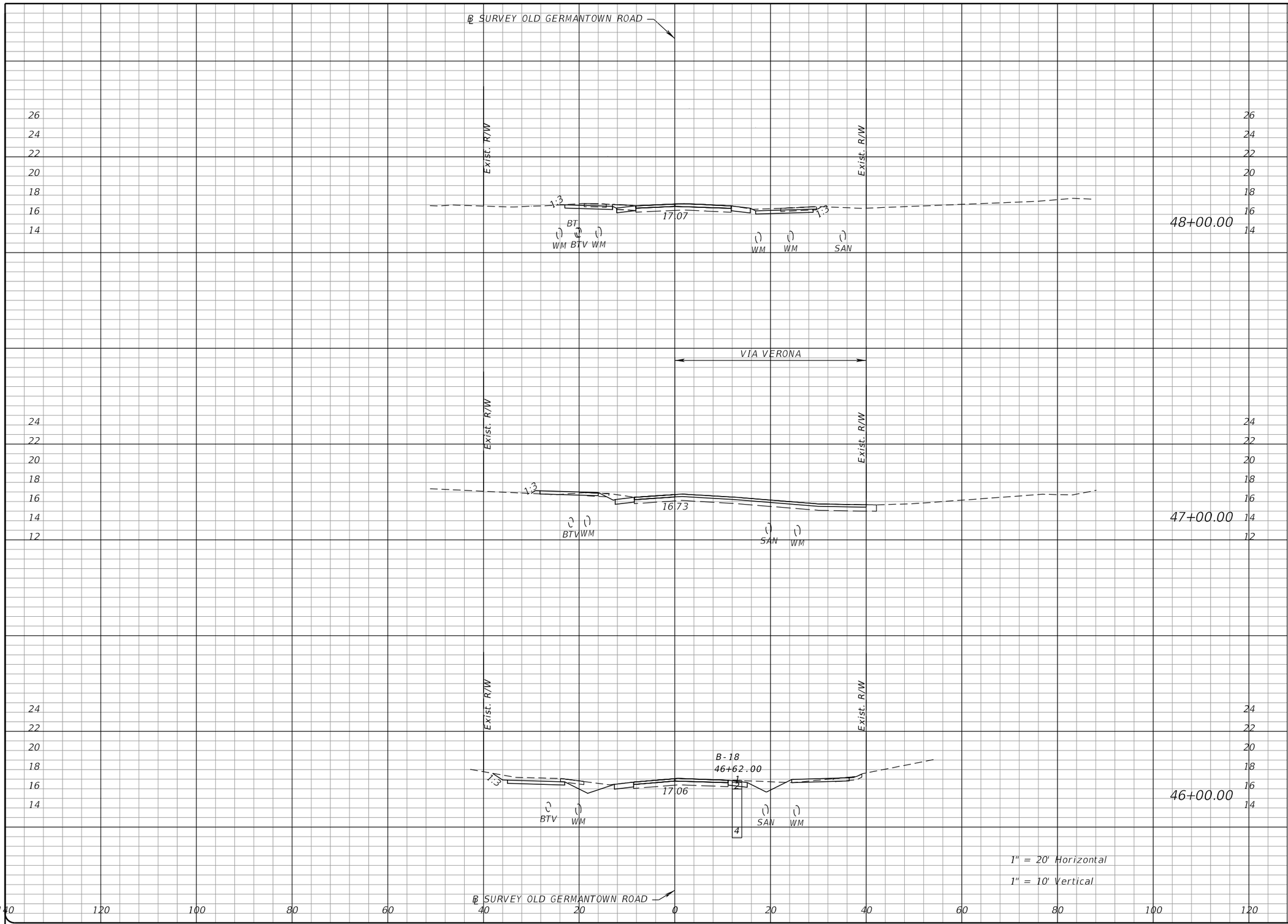
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OLD GERMANTOWN ROAD

CROSS SECTIONS

SHEET: 88
OF: 177
PROJECT NO. 444377-1

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Regular Exc.		Embankment	
A	V	A	V
16.71	41.65	0.13	5.66
5.78	60.78	2.93	9.11
27.04	112.08	1.99	3.90

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PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:

MAJHARUL ALAM, P.E
P.E# 61600

No.	Revisions	By	Date

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PUBLIC WORKS DEPARTMENT
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OLD GERMANTOWN ROAD

CROSS SECTIONS

SHEET: 89
OF: 177
PROJECT NO. 444377-1

℄ SURVEY OLD GERMANTOWN ROAD

Exist. R/W

Exist. R/W

B-20
50+91.00

16.39

WM BT BTV WM WM WM SAN

51+00.00

16.52

BTV BTV WM WM SAN

50+00.00

B-19
48+94.00

16.48

BTV BTV WM WM SAN

49+00.00

1" = 20' Horizontal

1" = 10' Vertical

℄ SURVEY OLD GERMANTOWN ROAD

	Regular Exc.		Embankment	
	A	V	A	V
51+00.00	15.71	79.67	0.01	0.09
50+00.00	27.31	103.71	0.04	0.94
49+00.00	28.70	84.09	0.47	1.10

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PROPEL

PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:

MAJHARUL ALAM, PE
P.E# 61600

No.	Revisions	By	Date

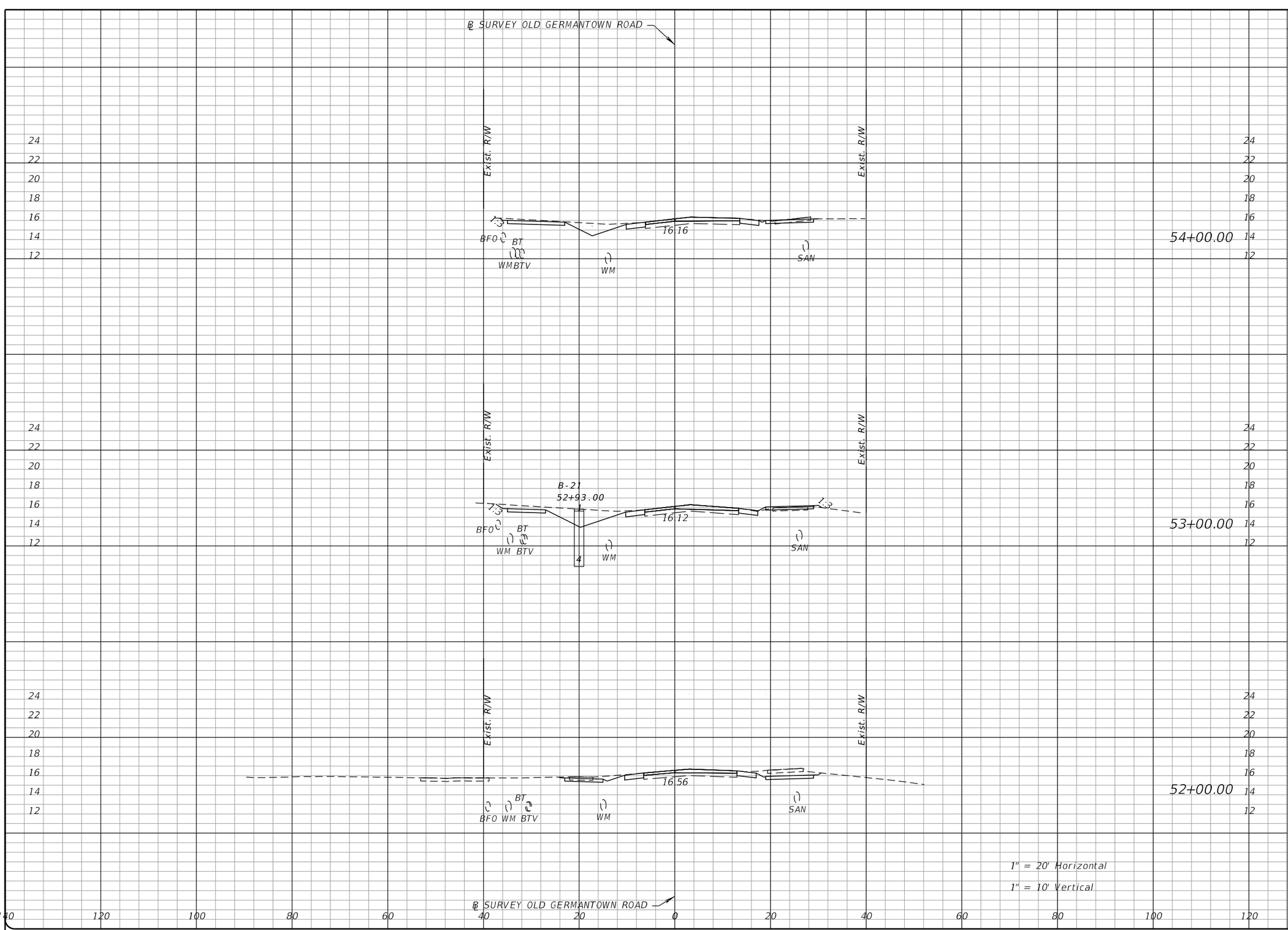
CITY of DELRAY BEACH
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OLD GERMANTOWN ROAD

CROSS SECTIONS

SHEET: 90
OF: 177
PROJECT NO. 444377-1

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Regular Exc.		Embankment	
A	V	A	V
22.31	95.70	0.22	3.84
29.37	92.58	1.86	3.44
20.63	67.30	0.00	0.01

1" = 20' Horizontal

1" = 10' Vertical

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FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

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P.E# 61600

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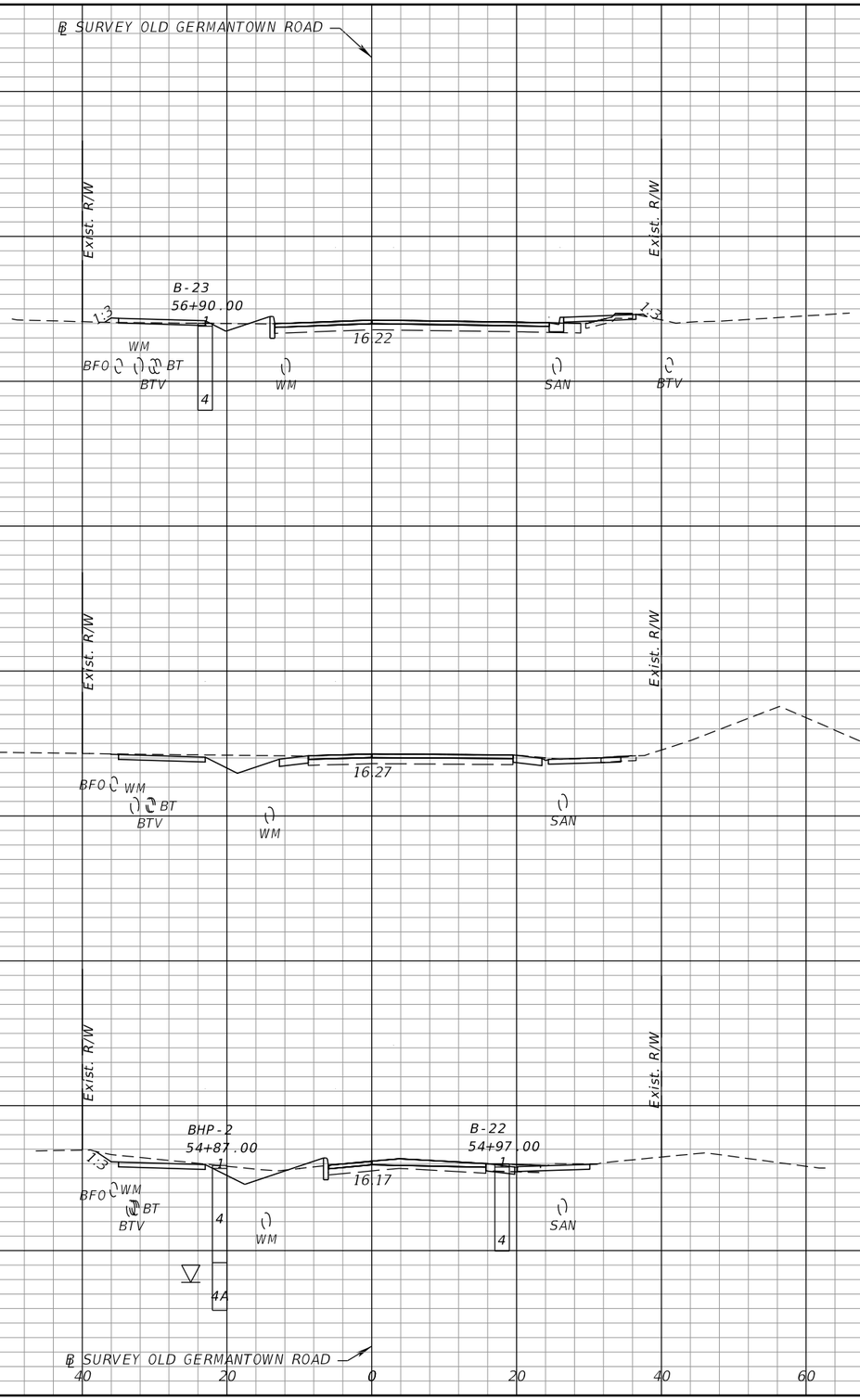
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OLD GERMANTOWN ROAD

CROSS SECTIONS

SHEET: 91
OF: 177
PROJECT NO. 444377-1

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1" = 20' Horizontal

1" = 10' Vertical

Regular Exc.		Embankment	
A	V	A	V
6.06	39.19	7.11	13.16
15.10	68.72	0.00	2.94
22.01	82.07	1.59	3.34

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PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
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FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:

MAJHARUL ALAM, PE
P.E# 61600

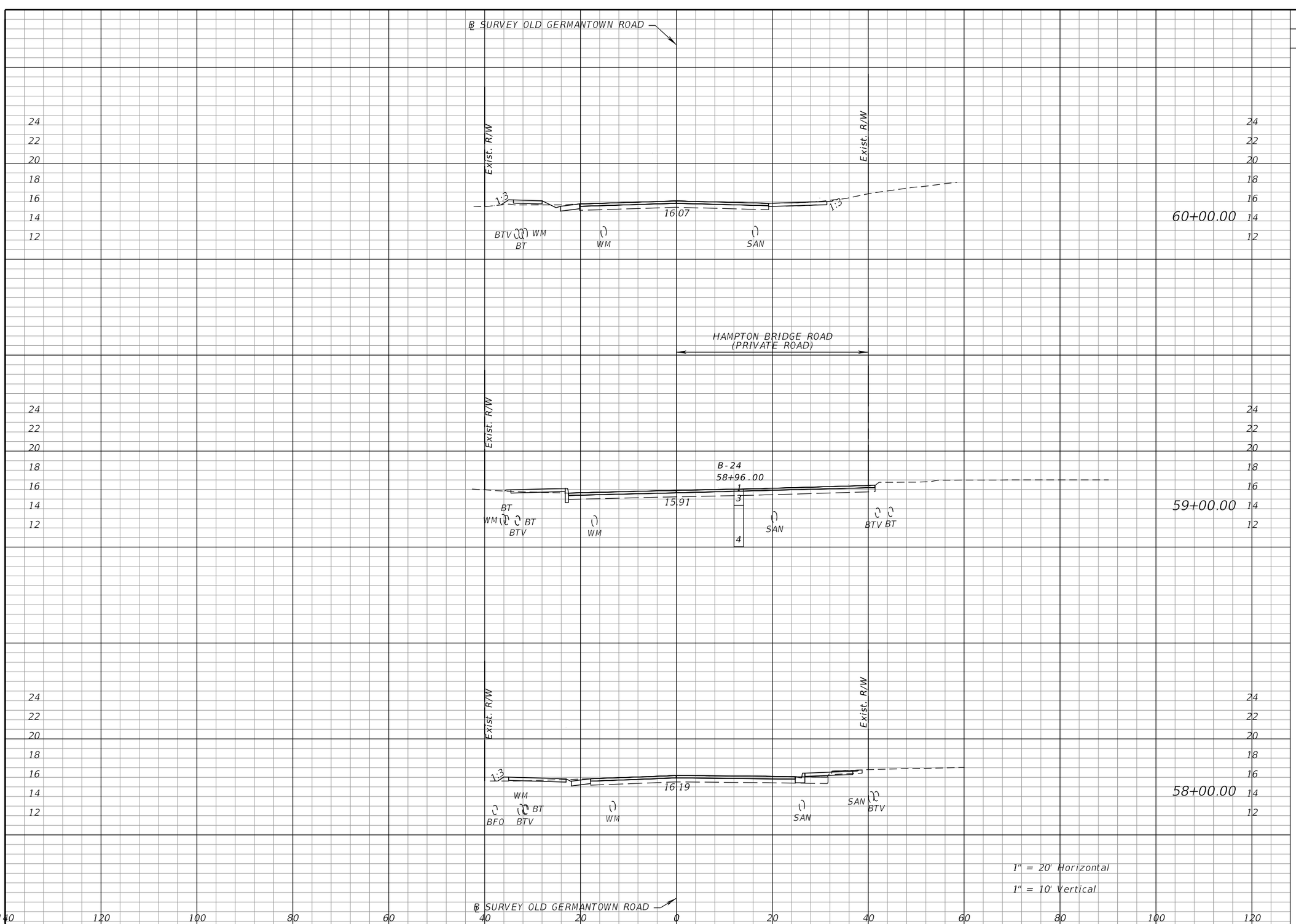
No.	Revisions	By	Date

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OLD GERMANTOWN ROAD

CROSS SECTIONS

SHEET: 92
OF: 177
PROJECT NO. 444377-1



Regular Exc.		Embankment	
A	V	A	V
6.83	19.67	4.23	8.25
3.79	19.94	0.23	11.77
6.98	24.16	6.13	24.51

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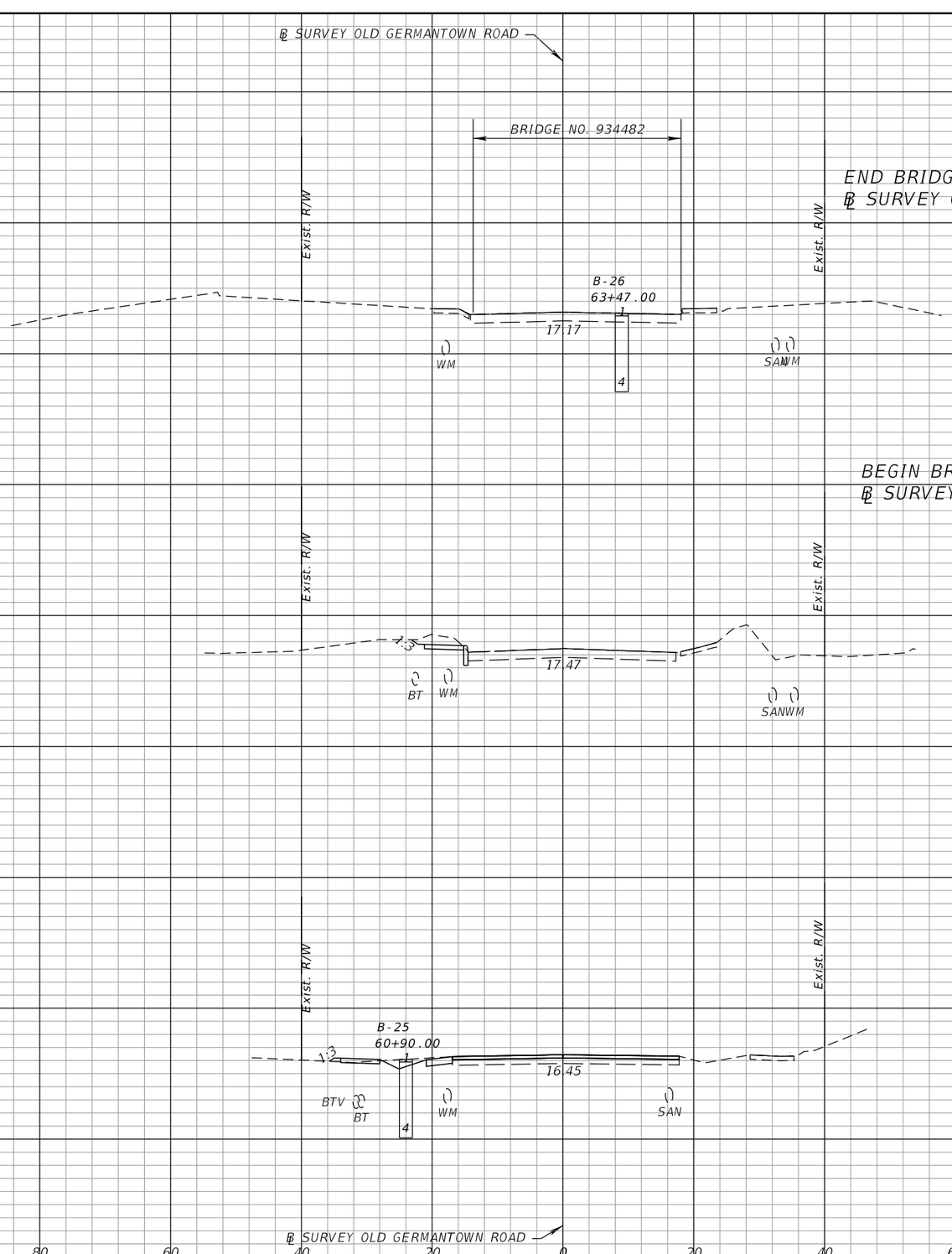
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OLD GERMANTOWN ROAD

CROSS SECTIONS

SHEET: 93
OF: 177
PROJECT NO. 444377-1

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Regular Exc.		Embankment	
A	V	A	V
0.00		0.00	
	12.54		0.28
6.77		0.15	
	22.77		3.54
5.52		1.76	
	22.89		11.09

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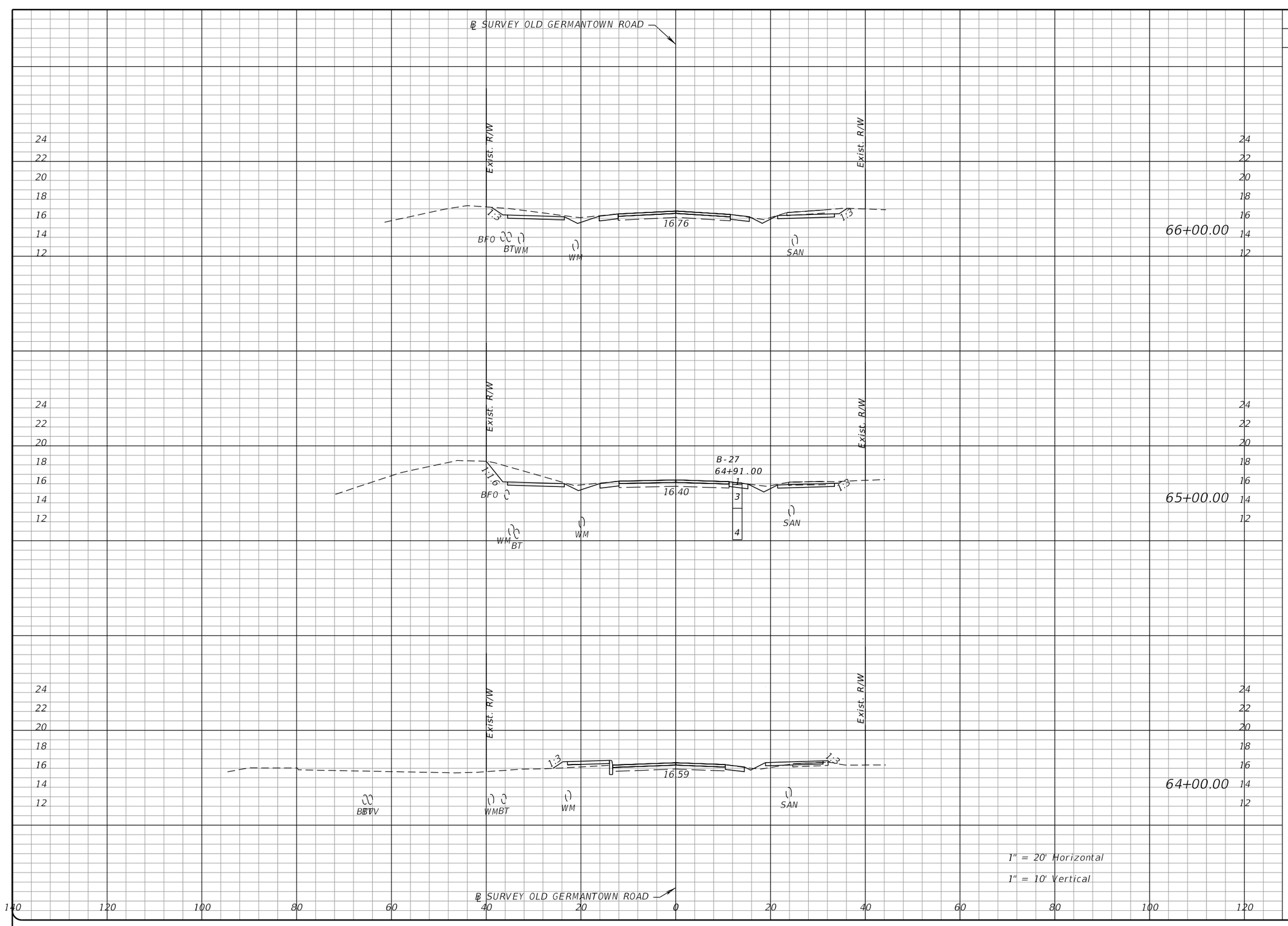
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OLD GERMANTOWN ROAD

CROSS SECTIONS

SHEET: 94
OF: 177
PROJECT NO. 444377-1

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Regular Exc.		Embankment	
A	V	A	V
27.24	113.98	0.11	0.21
34.31	74.19	0.00	9.95
5.75	10.65	5.38	9.95

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PROPEL

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OLD GERMANTOWN ROAD

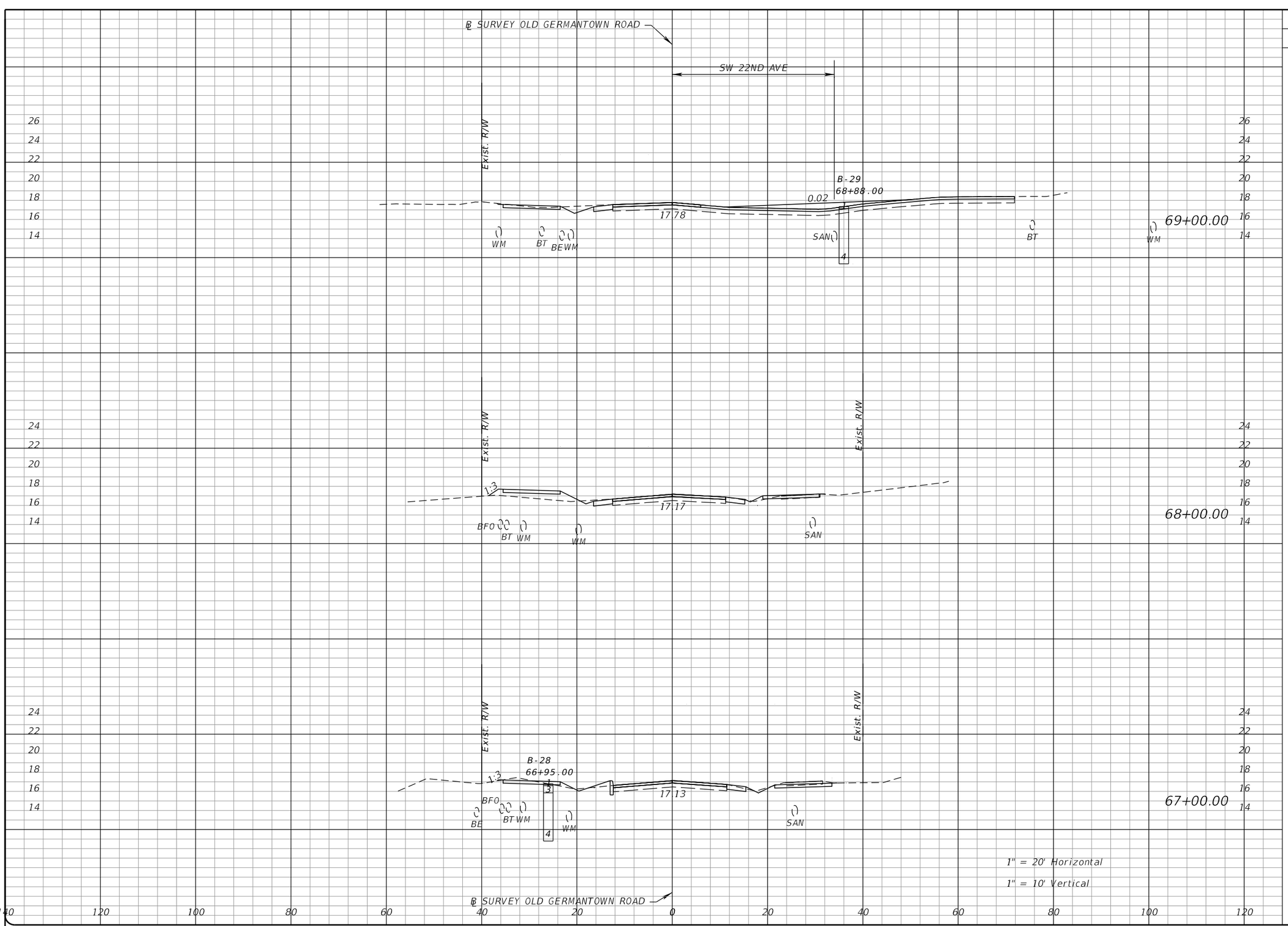
CROSS SECTIONS

SHEET: 95
OF: 177

PROJECT NO.
444377-1

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Regular Exc.		Embankment	
A	V	A	V
7.70	28.10	1.45	31.72
7.47	37.95	15.68	36.84
13.02	74.55	4.21	8.00

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Seal:

MAJHARUL ALAM, PE
P.E# 61600

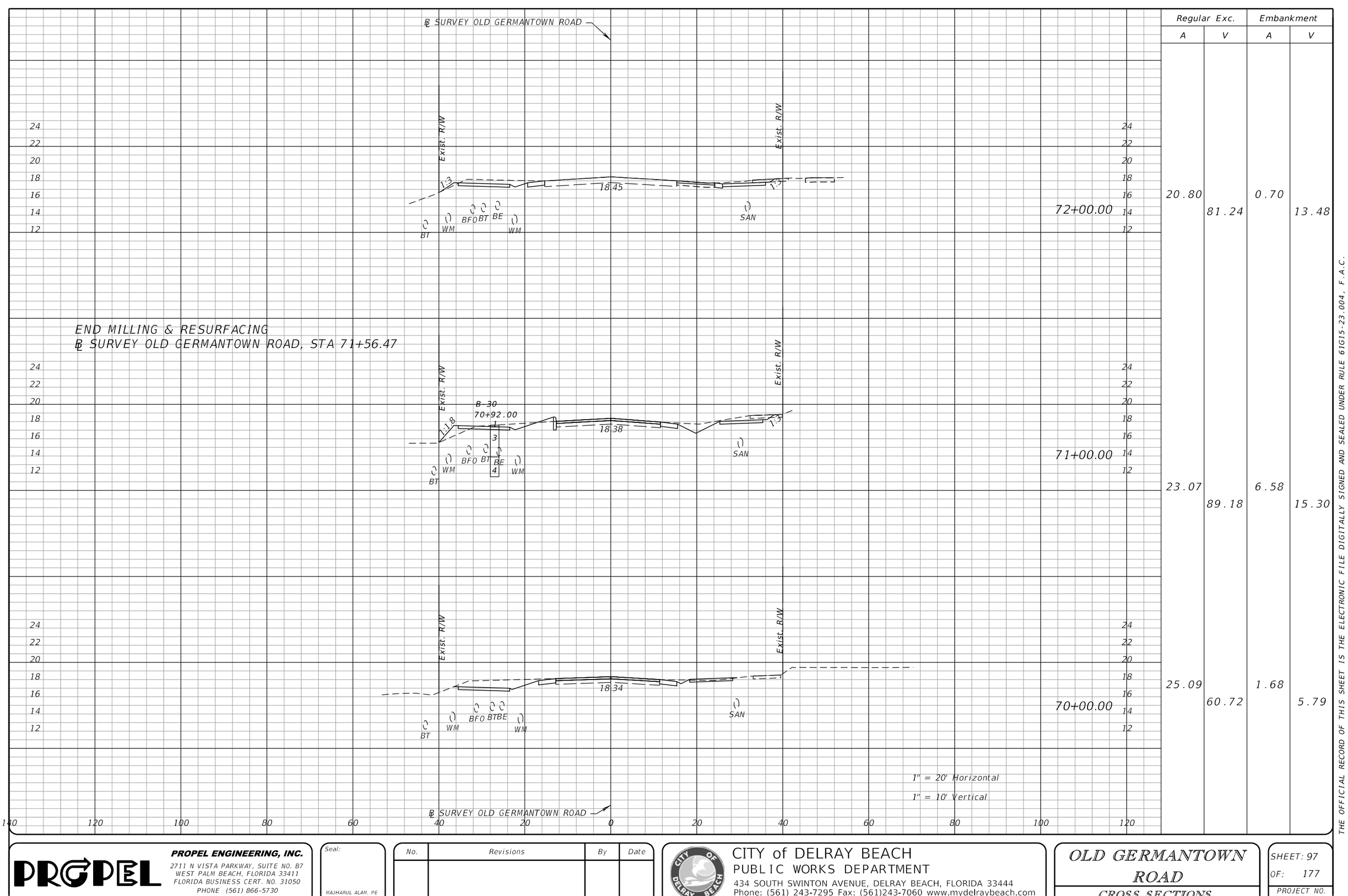
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OLD GERMANTOWN ROAD

CROSS SECTIONS

SHEET: 96
OF: 177
PROJECT NO. 444377-1



Regular Exc.		Embankment	
A	V	A	V
20.80	81.24	0.70	13.48
23.07	89.18	6.58	15.30
25.09	60.72	1.68	5.79

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2711 N VISTA PARKWAY, SUITE NO. B7
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FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:

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P.E# 61600

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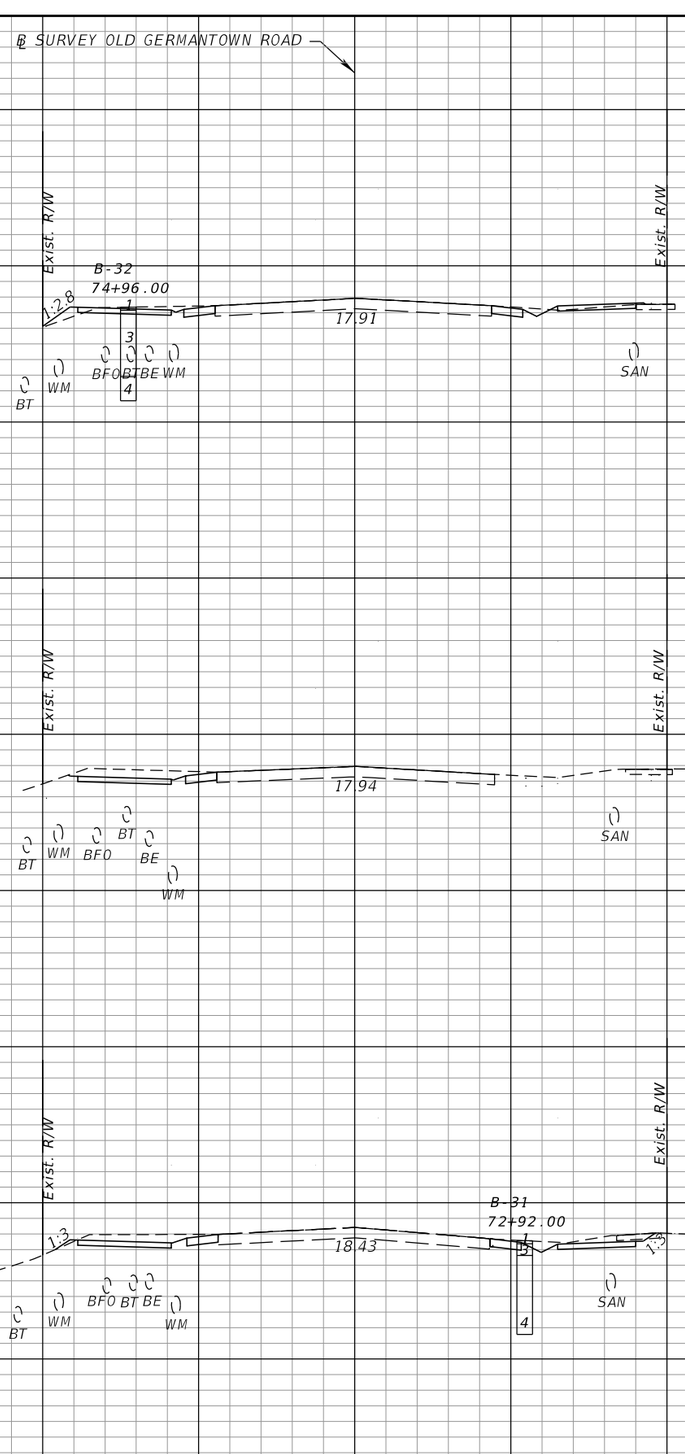
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OLD GERMANTOWN ROAD

CROSS SECTIONS

SHEET: 97
OF: 177
PROJECT NO. 444377-1

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Regular Exc.		Embankment	
A	V	A	V
11.98	47.75	4.72	8.74
13.81	69.18	0.00	0.53
23.55	82.21	0.29	1.83

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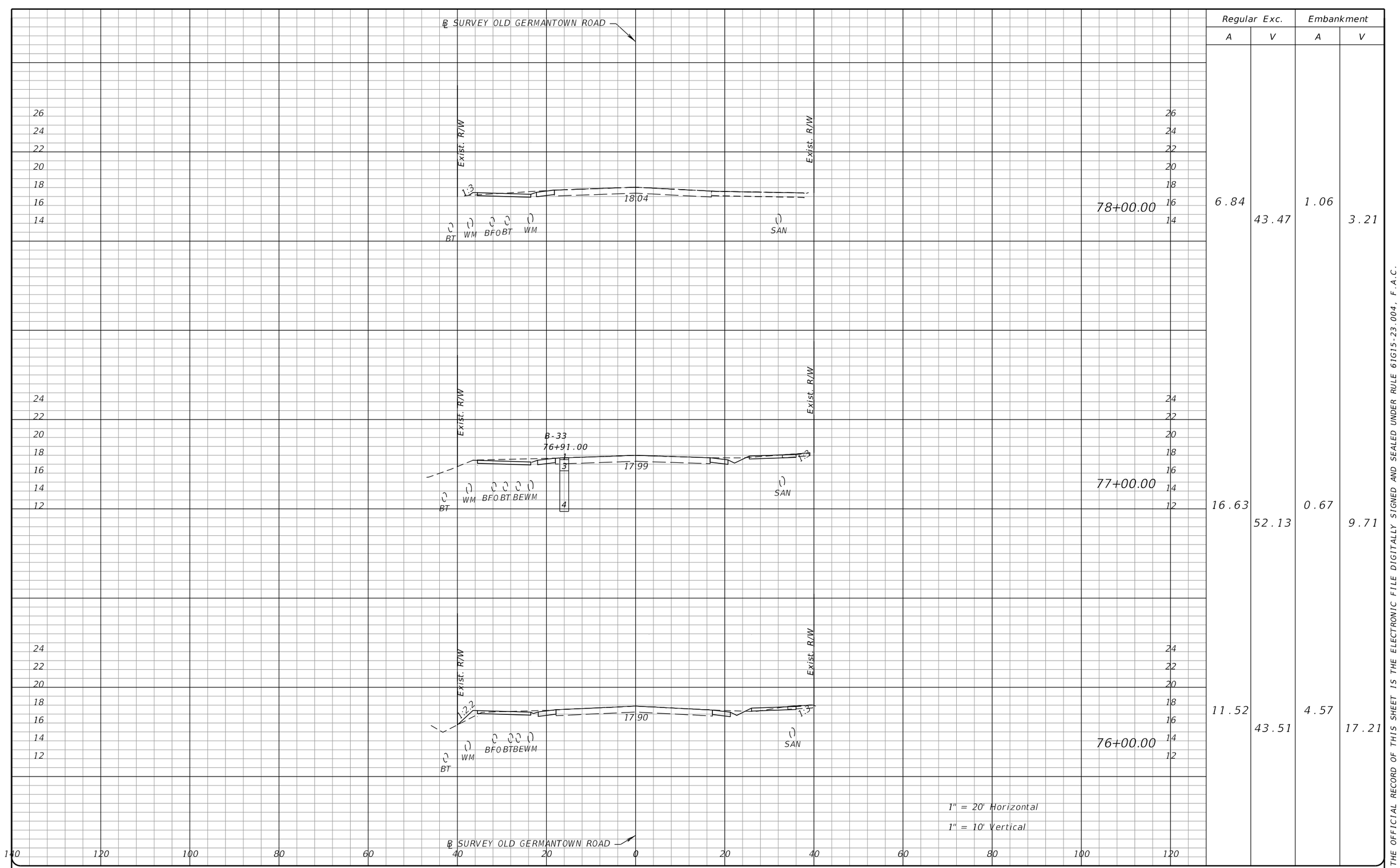
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OLD GERMANTOWN ROAD

CROSS SECTIONS

SHEET: 98
OF: 177
PROJECT NO. 444377-1

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Regular Exc.		Embankment	
A	V	A	V
6.84	43.47	1.06	3.21
16.63	52.13	0.67	9.71
11.52	43.51	4.57	17.21

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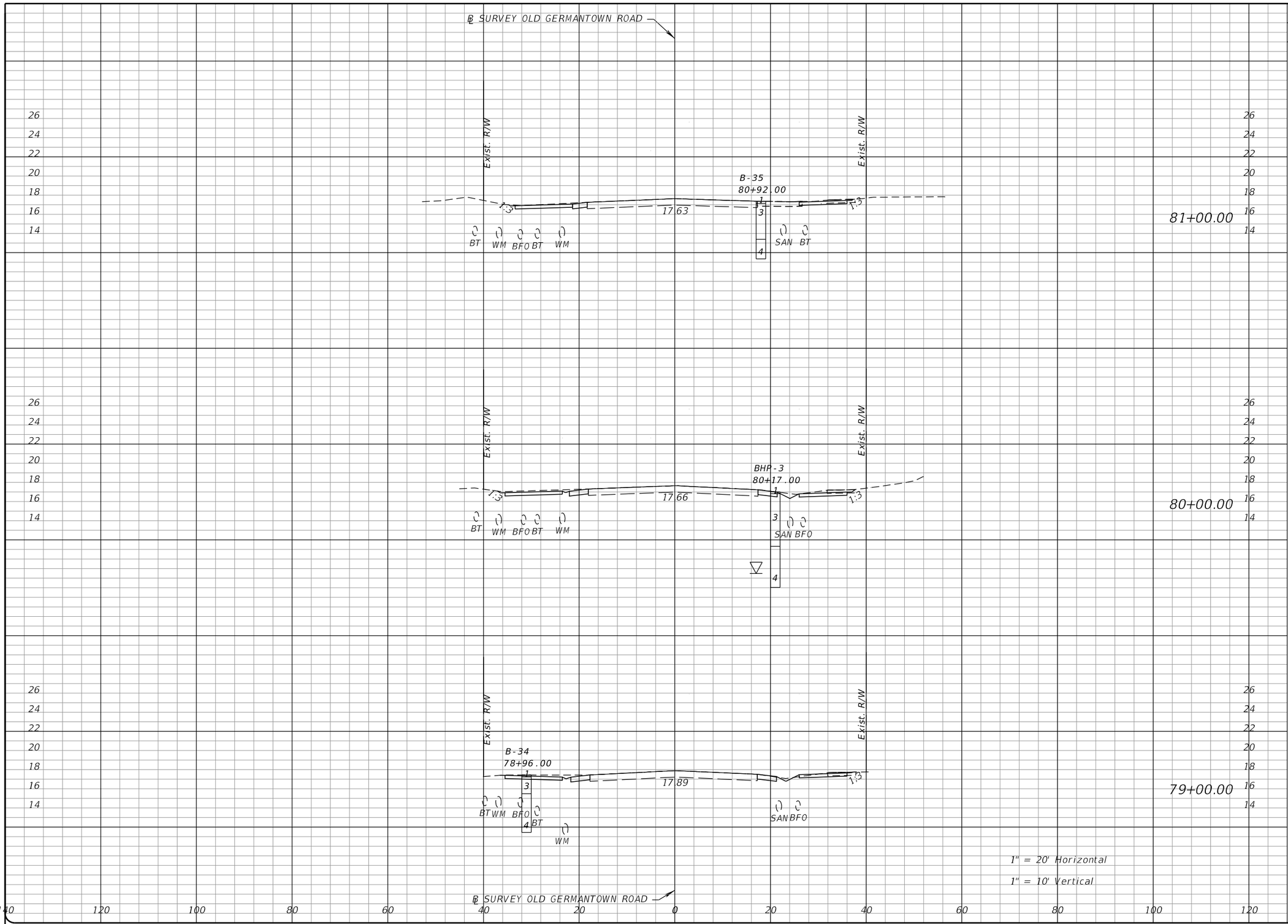
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OLD GERMANTOWN ROAD
CROSS SECTIONS

SHEET: 99
OF: 177
PROJECT NO. 444377-1

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Regular Exc.		Embankment	
A	V	A	V
17.04	63.12	0.00	0.00
17.04	57.75	0.00	1.26
14.15	38.87	0.68	3.23

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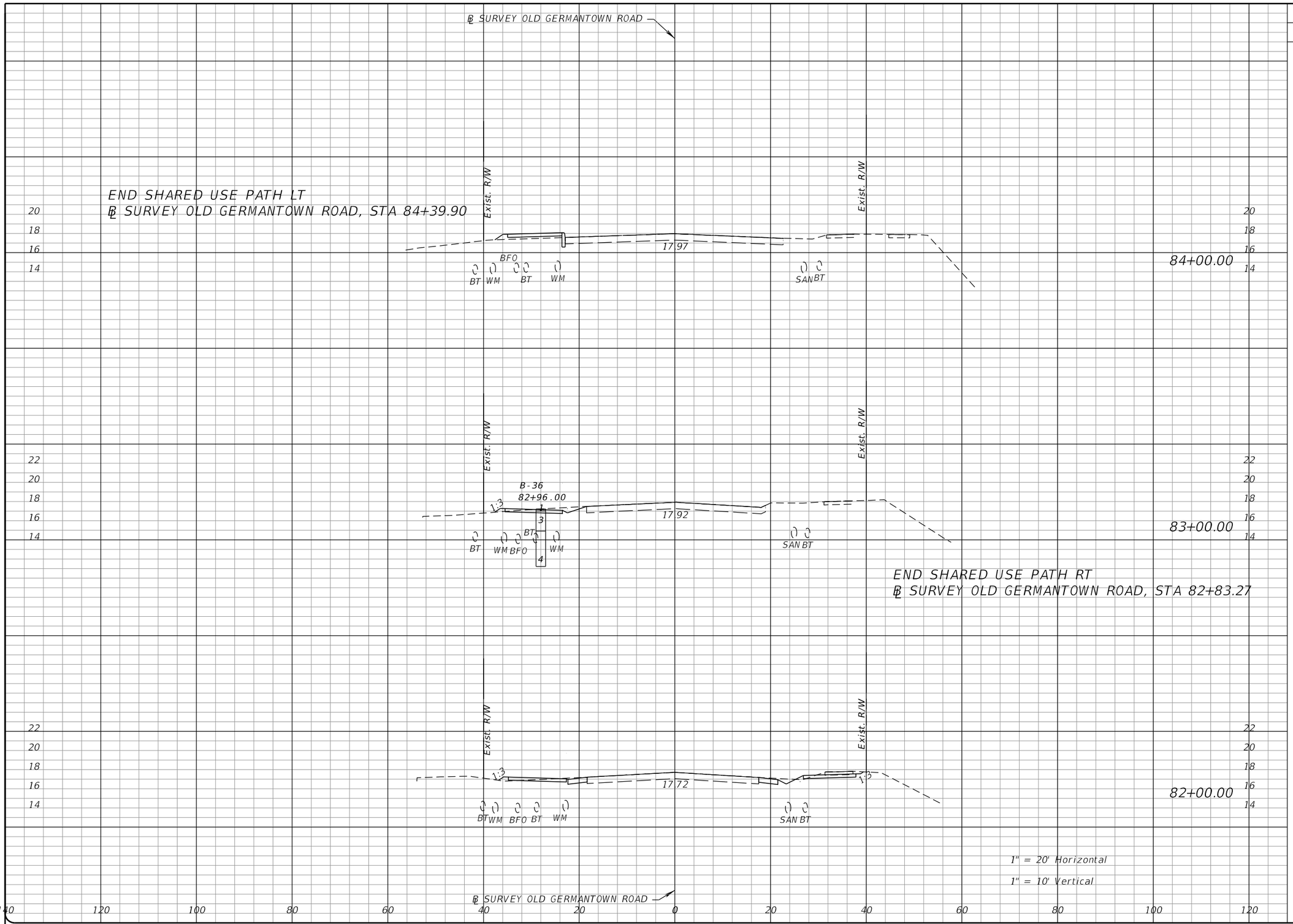
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OLD GERMANTOWN ROAD

CROSS SECTIONS

SHEET: 100
OF: 177
PROJECT NO. 444377-1



Regular Exc.		Embankment	
A	V	A	V
3.89		0.14	
	17.39		2.80
5.50		1.38	
	34.29		9.64
13.02		3.83	
	46.29		7.09

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OLD GERMANTOWN ROAD

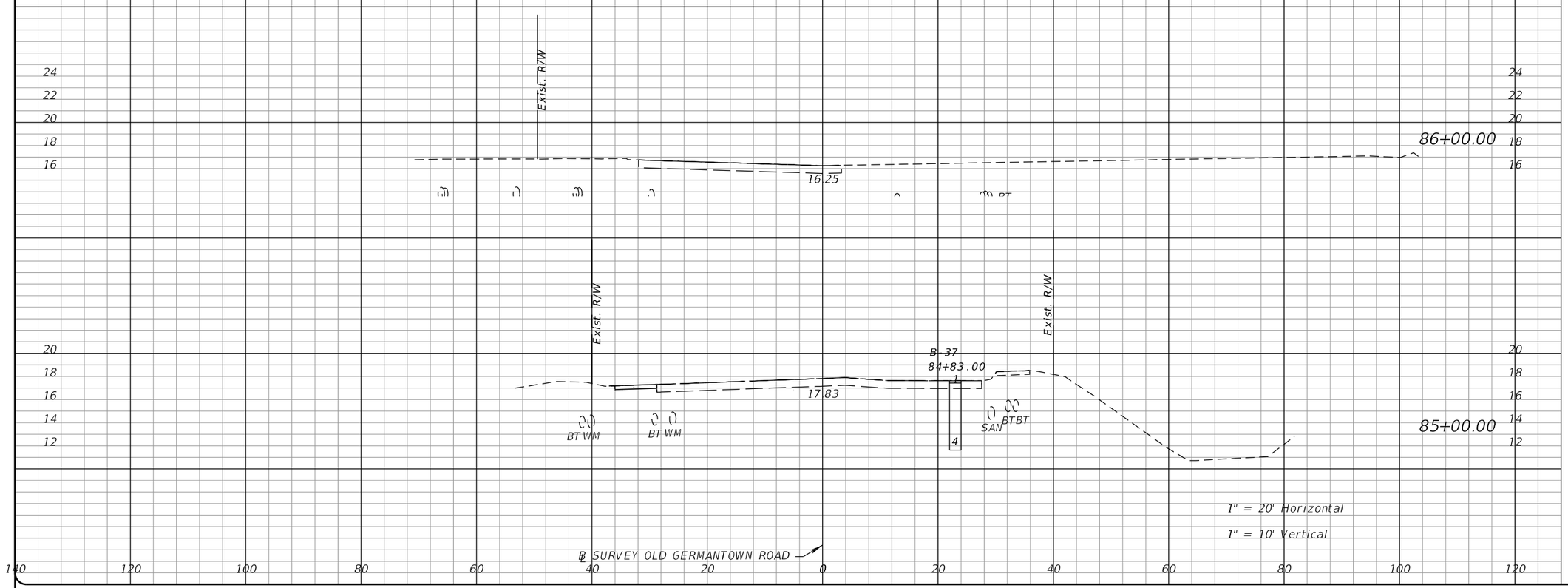
CROSS SECTIONS

SHEET:101
OF: 177
PROJECT NO. 444377-1

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℄ SURVEY OLD GERMANTOWN ROAD

END PROJECT
END EARTHWORK
℄ SURVEY OLD OLD GERMANTOWN ROAD, STA 86+16.20



Regular Exc.		Embankment	
A	V	A	V
0.00	4.38	0.00	0.13
2.37	11.58	0.07	0.38

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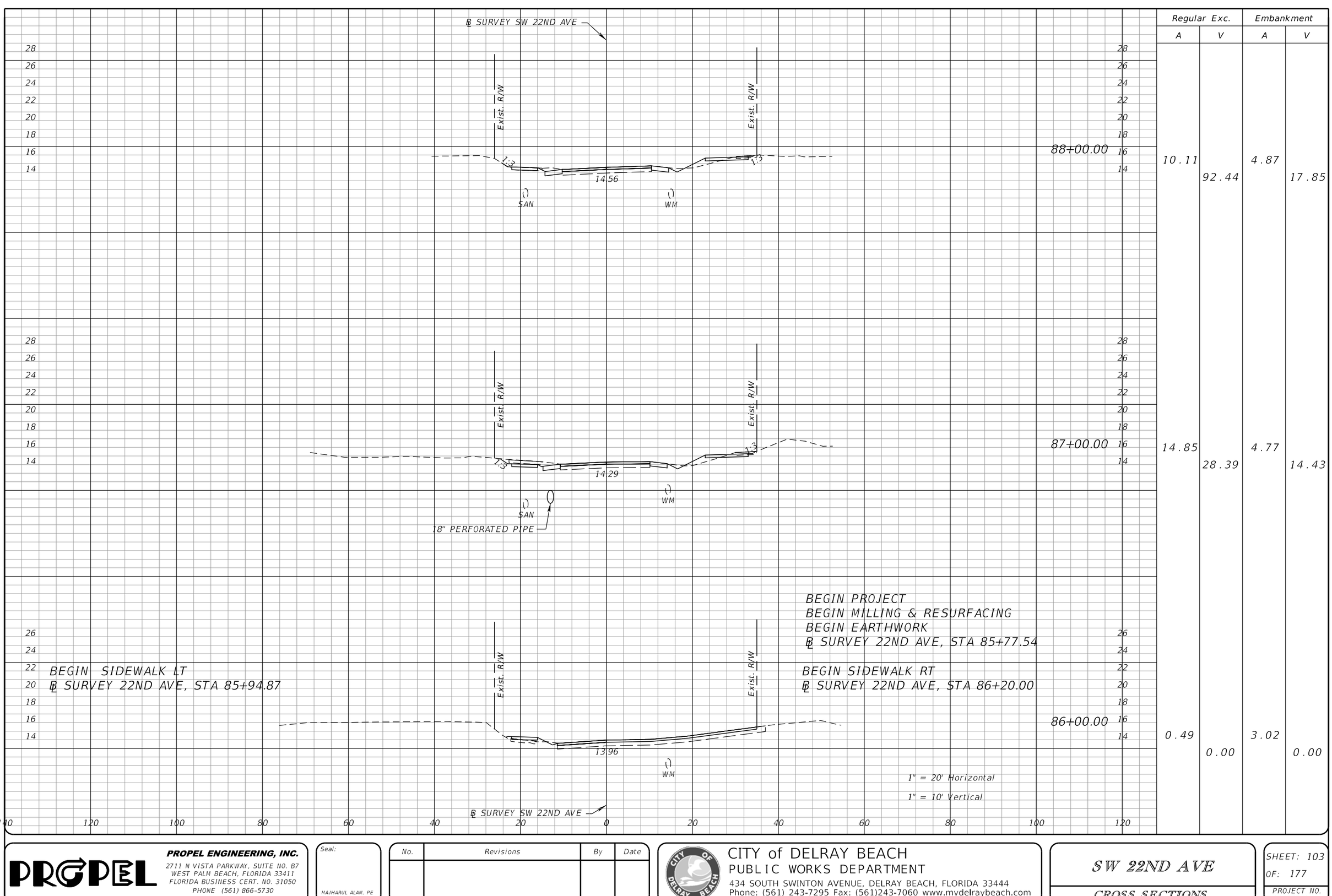
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OLD GERMANTOWN ROAD

CROSS SECTIONS

SHEET:102
OF: 177
PROJECT NO. 444377-1

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Regular Exc.		Embankment	
A	V	A	V
10.11	92.44	4.87	17.85
14.85	28.39	4.77	14.43
0.49	0.00	3.02	0.00

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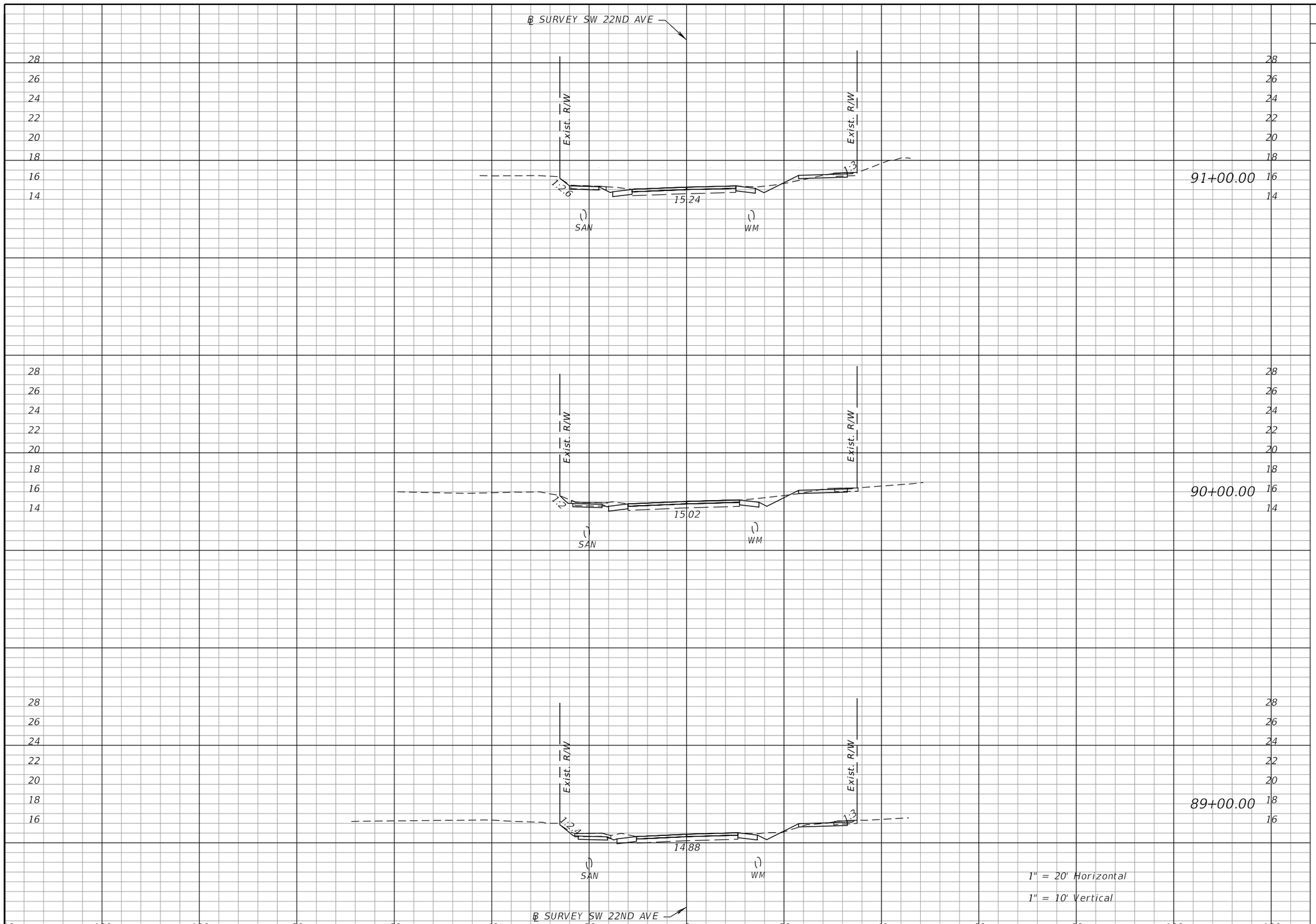
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SW 22ND AVE

CROSS SECTIONS

SHEET: 103
OF: 177
PROJECT NO. 444377-1



	Regular Exc.		Embankment	
	A	V	A	V
91+00.00	13.05	107.56	2.55	6.70
90+00.00	15.99	117.83	1.07	4.76
89+00.00	15.82	96.04	1.50	11.79

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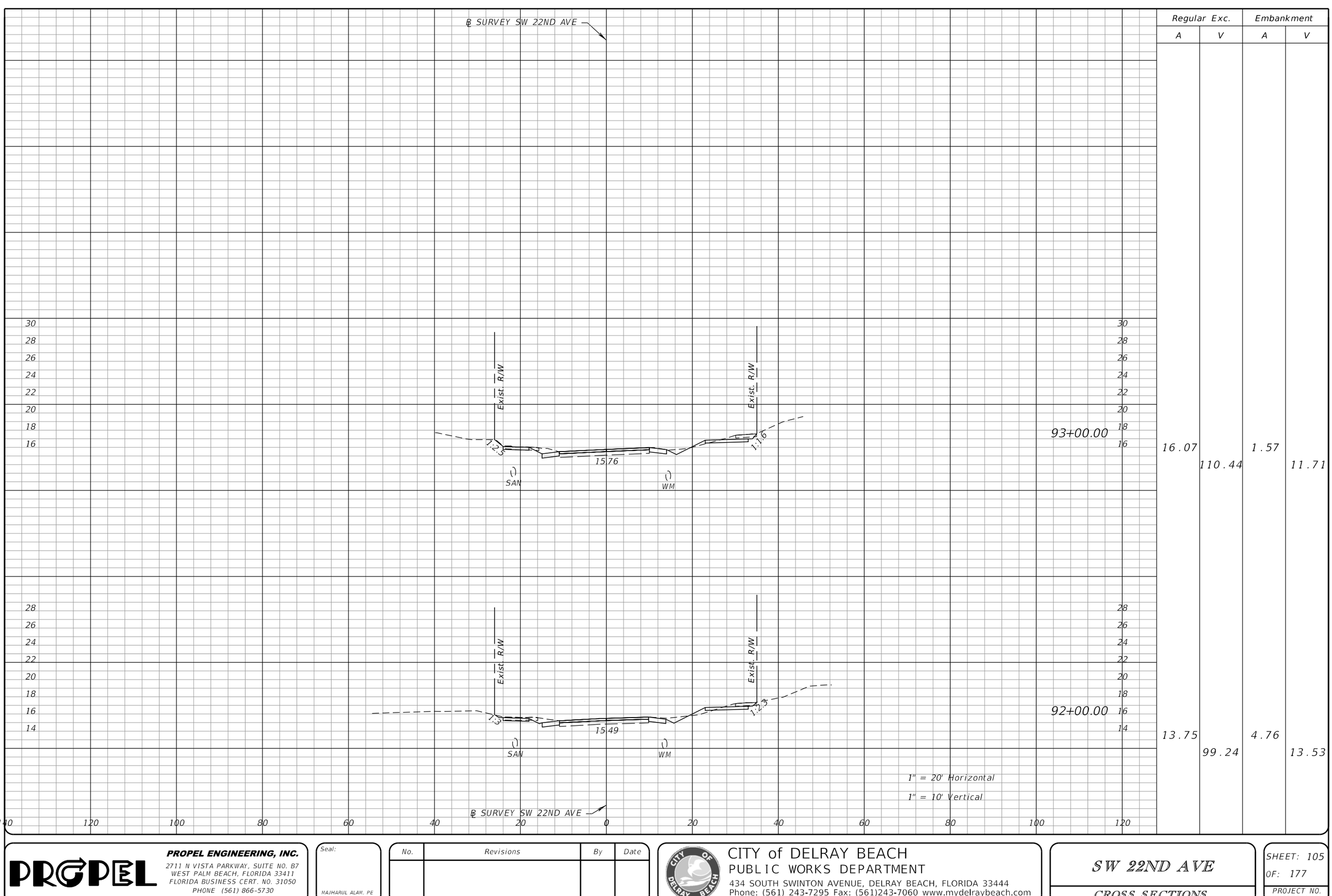
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SW 22ND AVE

CROSS SECTIONS

SHEET: 104
OF: 177
PROJECT NO. 444377-1



Regular Exc.		Embankment	
A	V	A	V
16.07	110.44	1.57	11.71
13.75	99.24	4.76	13.53

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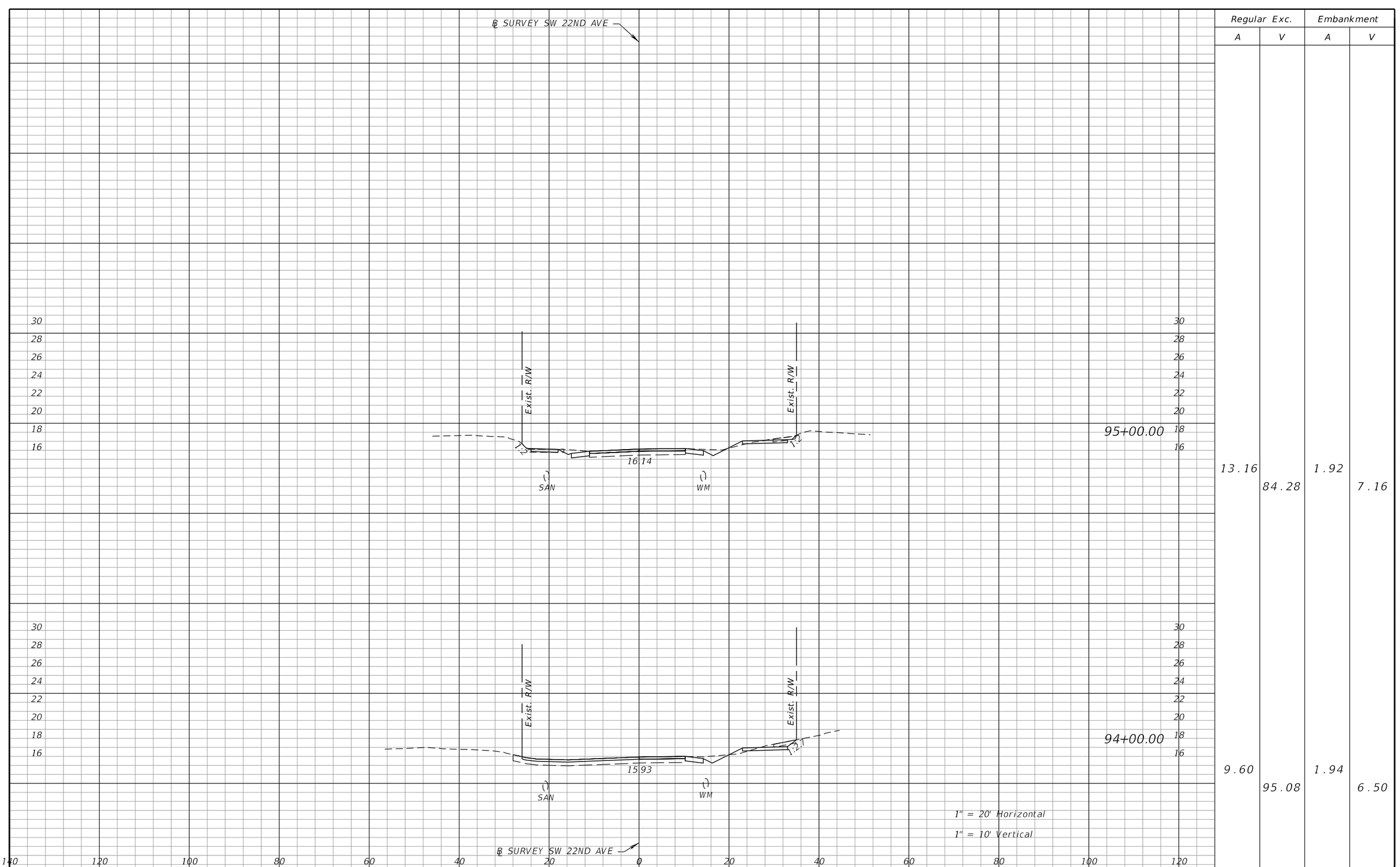
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SW 22ND AVE

CROSS SECTIONS

SHEET: 105
OF: 177
PROJECT NO. 444377-1



Regular Exc.		Embankment	
A	V	A	V
13.16	84.28	1.92	7.16
9.60	95.08	1.94	6.50

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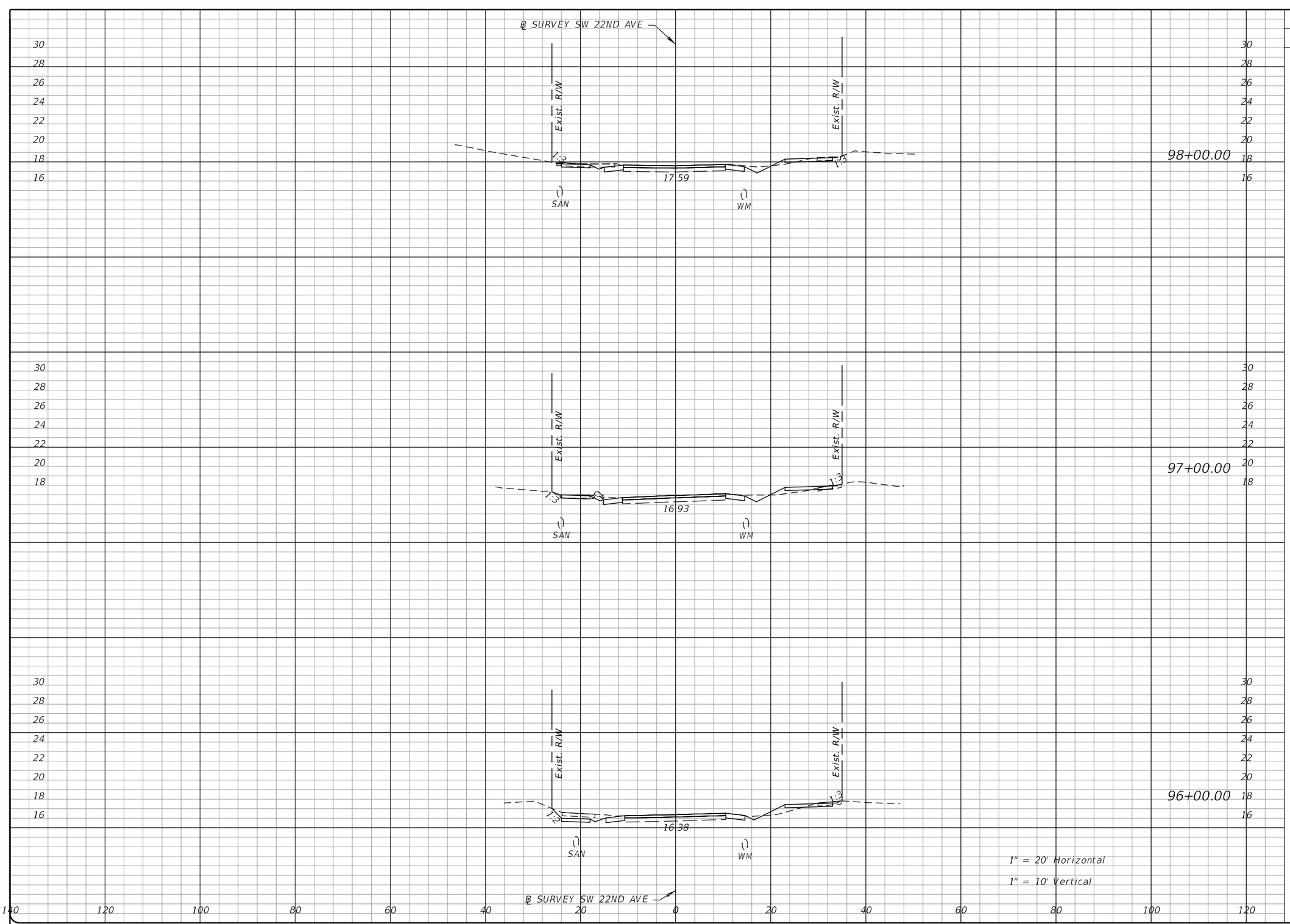
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SW 22ND AVE

CROSS SECTIONS

SHEET: 106
OF: 177
PROJECT NO. 444377-1



	Regular Exc.		Embankment	
	A	V	A	V
98+00.00	12.95	88.29	2.34	12.77
97+00.00	10.89	96.63	4.56	17.55
96+00.00	15.20	105.03	4.92	12.68

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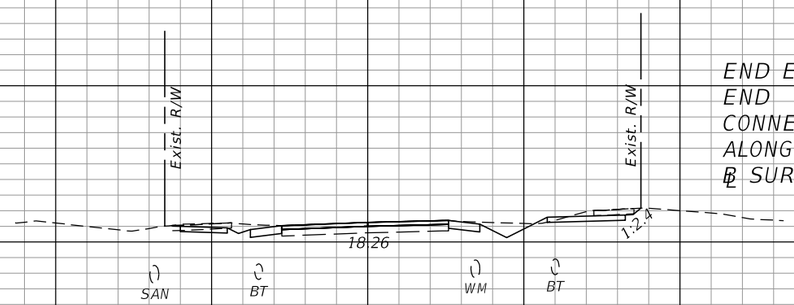
SW 22ND AVE

CROSS SECTIONS

SHEET: 107
OF: 177
PROJECT NO. 444377-1

℄ SURVEY SW 22ND AVE

END EARTHWORK
END SIDEWALK LT
CONNECT TO SHARED USE PATH
ALONG OLD GERMANTOWN ROAD
℄ SURVEY 22ND AVE, STA 99+57.33



END EARTHWORK
END SHARED USE PATH RT
CONNECT TO SHARED USE PATH
ALONG OLD GERMANTOWN ROAD
℄ SURVEY 22ND AVE, STA 99+79.62

1" = 20' Horizontal

1" = 10' Vertical

	Regular Exc.		Embankment	
	A	V	A	V
99+00.00	18.71	117.24	0.73	5.68

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SW 22ND AVE

CROSS SECTIONS

SHEET: 108
OF: 177
PROJECT NO. 444377-1

1.0 SITE DESCRIPTION:

1.A. NATURE OF CONSTRUCTION ACTIVITY:

THIS PROJECT JS TO PROVIDE SIDEWALKS AND SHARED-USE PATH IMPROVEMENTS ON OLD GERMANTOWN ROAD FROM PARK ACCESS ROAD TO SOUTH CONGRESS AVENUE AND SW 22ND AVENUE FROM OLD GERMANTOWN ROAD TO APPROXIMATELY 1400 LF SOUTH OF THE INTERSECTION. EXISTING PAVEMENT WILL REQUIRE MILLING AND RESURFACING TO IMPROVE EXISTING DEFICIENCIES.

DESCRIPTION OF IMPROVEMENTS:

THE MAJOR OBJECTIVES OF THIS PROJECT INCLUDE MILLING AND RESURFACING EXISTING PAVEMENT. OTHER IMPROVEMENTS INCLUDE INSTALLATION OF SHARED-USE PATHS AND PROVIDING SWALLES TO IMPROVE THE EXISTING DRAINAGE SYSTEM. THIS PROJECT IS APPROXIMATELY 1.8 MILES.

1.B. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

THE FOLLOWING SEQUENCE OF MAJOR ACTIVITIES SHALL BE FOLLOWED UNLESS THE CONTRACTOR PROPOSES AN ALTERNATIVE SEQUENCE THAT IS EQUAL OR BETTER AT CONTROLLING EROSION AND SEDIMENT AND IS APPROVED BY THE ENGINEER.

OLD GERMANTOWN ROAD:

MAINTAIN ONE LANE OF TRAVEL IN BOTH DIRECTIONS BY SHIFTING TRAFFIC AS NECESSARY.

CONSTRUCT PROPOSED, DRAINAGE, SIDEWALK, ANDSHARED-USE PATH IMPROVEMENTS AS SHOWN IN TRAFFIC CONTROL PLANS.

1.C. AREA ESTIMATES:

TOTAL AREA TO BE DISTURBED: 15.90 AC

TOTAL AREA OF CLEARING AND GRUBBING: 8.76 AC

NEW IMPERVIOUS: OLD GERMANTOWN ROAD: 7.89, SW 22ND AVENUE: 1.16

1.D. RUNOFF DATA:

RUNOFF COEFFICIENTS:

BEFORE: OLD GERMANTOWN ROAD: 0.44, SW 22ND AVENUE: 0.44

AFTER: OLD GERMANTOWN ROAD: 0.56, SW 22ND AVENUE: 0.56

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

1.E. SITE MAP:

CONSTRUCTION PLANS ARE BEING USED AS THE SITE MAPS. THE LOCATION OF THE REQUIRED INFORMATION IS DESCRIBED BELOW. THE SHEET NUMBERS FOR THE PLAN SHEETS REFERENCED ARE IDENTIFIED ON THE KEY SHEET OF THESE CONSTRUCTION PLANS.

DRAINAGE PATTERNS: DRAINAGE PATTERNS INCLUDE SHEET FLOW FROM THE ROADWAY INTO ROADSIDE DRY TREATMENT SWALES IN CONJUNCTION WITH EXFILTRATION TRENCH.

APPROXIMATE SLOPES: THE SLOPES OF THE SITE CAN BE SEEN IN THE THEYPICAL SECTION AND IN THE CROSS SECTION SHEETS.

AREAS OF SOIL DISTURBANCE: THE AREAS TO BE DISTURBED ARE INDICATED ON THE TYPICAL SECTION SHEETS AND CROSS SECTION SHEETS. ANY AREAS WHERE PERMANENT FEATURES ARE SHOWN TO BE CONSTRUCTED ABOVE OR BELOW GROUND WILL BE DISTURBED.

AREAS NOT TO BE DISTURBED: SEE PLAN SHEETS, TYPICAL SECTIONS AND CROSS SECTIONS SHEETS.

LOCATIONS OF TEMPORARY CONTROLS: SEDIMENT CONTROL DEVICES (INLETPROTECTION SYSTEM AND SEDIMENT BARRIER) WILL BE INSTALLED AROUND THE INLETS. SEDIMENT RUNOFF HAS THE POTENTIAL TO REACH SURFACE WATERS OR OFFS/TE STORMWATER COLLECTION FACILITIES.

LOCATIONS OF PERMANENT CONTROLS: TEMPORARY SEDIMENT CONTROL DEVICES ARE SHOWN IN EROSION CONTROL PLANS ADDITIONALLY PERMANENT SEDIMENT INCLUDE THE CONSTRUCTION INLETS WITH SUMP BOTTOMS, EXFILTRATION TRENCHES, AND SODDING OF SIDE SLOPES.

AREAS TO BE STABILIZED: PERMANENT STABILIZATION IS SHOWN ON THE TYPICAL SECTION.

SURFACE WATERS: THE SURFACE WATER WITHIN THE SITE IS THE E-4 CANAL.

2.0 CONTROLS

2.A. EROSION AND SEDIMENT CONTROLS:

IN THE SECTION 104 EROSION CONTROL PLAN, CONTRACTOR SHALL DESCRIBE THE PROPOSED EROSION CONTROL PRACTICES BASED ON THE CONTRACTOR'S PROPOSED TRAFFIC CONTROL PLAN. THE FOLLOWING RECOMMENDED GUIDELINES ARE BASED ON THE TRAFFIC CONTROL PLANS. WHERE FOLLOWING THE TRAFFIC CONTROL PLANS OUTLINED IN THESE CONSTRUCTION PLANS, THE CONTRACTOR MAY CHOOSE TO ACCEPT THE FOLLOWING GUIDELINES OF MODIFY THEM IN THE SECTION 104 EROSION CONTROL PLAN, SUBJECT TO APPROVAL OF THE ENGINEER. AS WORK PROGRESSES, THE CONTRACTOR SHALL MODIFY THE PLAN TO ADAPT TO SEASONAL VARIATIONS, CHANGES IN CONSTRUCTION ACTIVITIES, AND THE NEED FOR BETTER PRACTICES.

2.A.1 STABILIZATION PRACTICES:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE STABILIZATION PRACTICES PROPOSED TO CONTROL EROSION. THE CONTRACTOR SHALL INITIATE ALL STABILIZATION MEASURES AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS PRIOR TO BEGINNING WORK. THE STABILIZATION PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

TEMPORARY:

NO TEMPORARY STABILIZATION PRACTICES TO BE IMPLEMENTED

PERMANENT:

ASPHALT OR CONCRETE SURFACE.

PERFORMANCE TURF

2.A.2 STRUCTURAL PRACTICES:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL 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 SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER:

TEMPORARY:

SEDIMENT BARRIERS IN ACCORDANCE WITH SPECIFICATION SECTION 104.

INLET PROTECTION IN ACCORDANCE WITH SPECIFICATION SECTION 104.

PERMANENT:

PERFORMANCE TURF/SODDING IN ACCORDANCE OF SPECIFICATION SECTION 570.

2.B STORMWATER MANAGEMENT:

THE STORMWATER MANAGEMENT FOR THIS PROJECT CONSISTS OF A COMBINATION OF CURB INLETS, EXFILTRATION TRENCHES, FRENCH DRAINS, AND DRY SWALES.

2.C OTHER CONTROLS:

THE CONTRACTOR SHALL PRACTICE GOOD HOUSEKEEPING BY INSTITUTING A CLEAN, ORDERLY, CONSTRUCTION SITE. THE FOLLOWING CONTROLS SHALL BE IMPLEMENTED TO FURTHER REDUCE POLLUTION AT THE PROJECT SITE.

2.C.1 DISCHARGE OF MATERIALS TO SURFACE WATERS:

NO CONSTRUCTION MATERIAL SHALL BE DISCHARGED TO WATERS OF THE STATE UNLESS AUTHORIZED BY SECTION 104 PERMIT AND/OR THE STATE OF FLORIDA ENVIRONMENTAL RESOURCE PERMIT. ALL CONSTRUCTION DEBRIS SHALL BE DISPOSED IN AN APPROVED UPLAND LOCATION. BUILDING MATERIAL SHALL NOT BE DISPOSED OF IN WETLANDS OR BURIED ON SITE.

2.C.2 OFF-SITE VEHICLE TRACKING & DUST CONTROL:

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PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:
MAJHARUL ALAM, PE
P.E# 61600

No.	Revisions	By	Date

CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

OLD GERMANTOWN ROAD
STORMWATER POLLUTION PREVENTION PLAN

SHEET: 109
OF: 177
PROJECT NO. 444377-1

THE CONTRACTOR SHALL TAKE MEASURES TO INSURE THE CLEANUP OF SEDIMENTS THAT HAVE BEEN TRACKED BY VEHICLES OR HAVE BEEN TRANSPORTED BY WIND OR STORM WATER ABOUT THE SITE OR ONTO NEARBY ROADWAYS.

STABILIZED CONSTRUCTION ENTRANCES AND CONSTRUCTION ROADS, IF APPROPRIATE, SHALL BE IMPLEMENTED IN ORDER TO REDUCE OFF SITE TRACKING AND WHEEL RUTS BOTH INSIDE AND OUTSIDE ROADWAY CLEAR ZONES.

LOADED HAUL TRUCKS SHALL BE COVERED WITH A TARPAULIN. EXCESS DIRT ON THE ROAD SHALL BE REMOVED DAILY.

2.C.3 WASTE DISPOSAL:

THE CONTRACTOR SHALL DEMONSTRATE THE PROPER DISPOSAL OF ALL CONSTRUCTION WASTE GENERATED WITHIN THE PROJECT LIMITS. WASTE MAY INCLUDE, BUT NOT BE LIMITED TO, VEGETATION FROM CLEARING AND GRUBBING ACTIVITIES, PACKAGING MATERIALS, SCRAP BUILDING MATERIALS, LITTER FROM TRAVELING PUBLIC, SEWAGE FROM SANITARY FACILITIES, HERBICIDES AND PESTICIDES AND THEIR CONTAINERS, AND HYDROCARBON PRODUCTS. CONTRACTOR SHALL DESIGNATE A WASTE COLLECTION AREA ONSITE AND DELINEATE THE AREA ON THE SWPPP SITE MAP. SANITARY/SEPTIC FACILITIES SHALL BE PROVIDED AND MAINTAINED IN A NEAT AND SANITARY CONDITION, FOR THE USE OF THE CONTRACTOR'S EMPLOYEES AS NECESSARY TO COMPLY WITH THE REQUIREMENTS AND REGULATIONS OF THE STATE AND LOCAL BOARDS OF HEALTH. A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR, AS REQUIRED BY STATE REGULATIONS, WILL COLLECT ALL SANITARY WASTE FROM PORTABLE UNITS.

THE CONTRACTOR WILL PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT LIMITS DURING CONSTRUCTION ACTIVITIES. CONTRACTOR WILL PROVIDE AN ADEQUATE NUMBER OF LITTER CONTAINERS WITH LIDS AT THE STAGING, STOCKPILE AND FIELD OFFICE AREAS. SPILLED LITTER CONTAINERS WILL BE CLEANED UP IMMEDIATELY.

2.C.4 FERTILIZERS AND PESTICIDES:

THE APPLICATION AND HANDLING OF HERBICIDES AND PESTICIDES SHALL BE IN COMPLIANCE WITH THE MANUFACTURER RECOMMENDED METHOD.

HERBICIDE AND PESTICIDES SHALL BE STORED ONSITE IN THEIR ORIGINAL CONTAINERS WITH PRODUCT LABEL INTACT.

HERBICIDE APPLICATOR TO HAVE CURRENT APPLICATOR LICENSE WITH RIGHT-OF-WAY ENDORSEMENT, A COPY OF WHICH IS TO BECOME PART OF PROJECT FILE.

2.C.5 TOXIC/HAZARDOUS MATERIAL HANDLING:

CONTRACTOR SHALL PROVIDE EQUIPMENT NECESSARY TO CONTAIN AND CLEAN UP SPILLS OF HAZARDOUS MATERIALS, INCLUDING PETROLEUM PRODUCTS. SPILLS SHALL BE CONTAINED AND CLEANED UP IMMEDIATELY AFTER THEY OCCUR. SPILLED MATERIAL AND THE EQUIPMENT USED TO CLEAN UP THE SPILL SHALL NOTE COME IN CONTACT WITH SURFACE WATERS OR BE INTRODUCED INTO STORM WATER. DISPOSAL OF SURPLUS PRODUCT WILL BE DONE ACCORDING TO MANUFACTURER RECOMMENDED METHOD.

3.0 MAINTENANCE:

CONTRACTOR TO PROVIDE A PLAN FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROLS THROUGHOUT CONSTRUCTION. THE MAINTENANCE PLAN SHALL AT A MINIMUM, COMPLY WITH THE FOLLOWING:

PERFORMANCE TURF: KEEP PERFORMANCE TURF IN MOIST CONDITION FOR THE DURATION OF THE CONTRACT PERIOD AND IN NO CASE LESS THAN TWO WEEKS. PERMANENT SODDING WILL BE INSPECTED AND REPAIRED FOR BARE POTS, WASHOUTS, AND UNHEALTHY GROWTH.

SILT FENCE: MAINTAIN PER SECTION 104. ANTICIPATE REPLACING

SILT FENCE ON 12-MONTH INTERVALS.

SEDIMENT BARRIERS: REMOVE SEDIMENT WHEN IT REACHES½ THE HEIGHT OF BARRIER OR WHEN WATER PONDS IN UNACCEPTABLE AMOUNTS OR AREAS. THE CONTRACTOR SHOULD ANTICIPATE REPLACING BALES ON 3-MONTH INTERVALS.

4. 0 INSPECTIONS:

QUALIFIED PERSONNEL SHALL INSPECT THE FOLLOWING ITEMS AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A

STORM THAT JS 0.50 INCHES OR MORE OF RAIN. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. THE CONTRACTOR SHALL ALSO INSPECT THAT CONTROLS INSTALLED IN THE FIELD AGREE WITH THE LATEST STORM WATER POLLUTION PREVENTION PLAN. THE FOLLOWING ITEMS WILL BE INSPECTED:

POINTS OF DISCHARGE TO WATERS OF THE UNITED STATES.

POINTS OF DISCHARGE TO SEPARATE MUNICIPAL STORM SEWER SYSTEMS. DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED.

AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION. STRUCTURAL CONTROLS.

STORMWATER MANAGEMENT SYSTEMS.

LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.

THE CONTRACTOR SHALL INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTIONS THAT INDICATE ITEMS ARE NOT IN GOOD WORKING ORDER.

IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT, AND PREVENT DISCHARGING POLLUTANTS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES, AS APPROVED BY THE ENGINEER.

5.0 NON-STORMWATER DISCHARGES:

IF CONTAMINATED SOIL OR GROUND WATER IS ENCOUNTERED DURING CONSTRUCT/ON, THE CONTRACTOR IS TO CEASE OPERATIONS IN THAT AREA. THE CONTRACTOR SHALL CONTACT DAVE LETTERMAN, DISTRICT HAZARDOUS MATERIALS COORDINATOR AT (888) 874-5343.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO DEVELOP A DEWATER/NG SYSTEM THAT PROVIDES PRE-TREATMENT OF EFFLUENT PRIOR TO DISCHARGE INTO ADJACENT SURFACE WATERS. THE CONTRACTOR'S DEWATER/NG METHOD MUST MEET ALL FEDERAL, STATE, AND LOCAL LAWS, RULES, AND REGULATIONS CONCERNING THIS PRACTICE INCLUDING THE USE OF PERMITTED OUTFALL STRUCTURES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND APPLY FOR AND PAY FOR A DEWATER/NG PERMIT WITH THE APPROPRIATE WATER MANAGEMENT DISTRICT.

SEDIMENT REMOVED FROM SUMP INLETS DURING CONSTRUCTION SHALL BE DISPOSED OF IN DESIGNATED STOCKPILE LOCATIONS.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO DESIGNATE AN AREA WITHIN THE PROJECT LIMITS FOR CONCRETE TRUCK WASHOUT ACTIVITIES. THIS AREA SHALL PROVIDE EROSION CONTROL DEVICES THAT PREVENT CONTACT BETWEEN CONCRETE WASHOUT MATERIALS AND STORMWATER AND/OR SURFACE WATERS.

6. 0 CONTRACTOR SUBMITTAL:

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DEVELOP AN EROSION CONTROL PLAN THAT PROVIDES A DETAILED DESCRIPTION OF ALL EROSION AND SEDIMENT CONTROLS, BEST MANAGEMENT PRACTICES, AND MEASURES THAT WILL BE IMPLEMENTED AT THE CONSTRUCTION SITE FOR EACH ACTIVITY IDENTIFIED IN SECTION 1.8 SEQUENCE OF SOIL DISTURBING ACTIVITIES. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TIME FRAMES IN WHICH THE CONTROLS WILL BE IMPLEMENTED, MAINTAINED AND REMOVED. THIS INFORMATION SHALL BE KEPT AT THE PROJECT FIELD OFFICE IN ORDER

FOR THE PROJECT TO BE CONSIDERED IN COMPLIANCE WITH THE FDEP GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION SITES.

THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THE FOLLOWING ITEMS ARE ON SITE:

COPY OF THE STORMWATER POLLUTION PREVENTION PLAN WITH THE ORIGINAL CERTIFICATION SIGNATURES.

COPY OF THE CONTRACTOR'S EROSION CONTROL PLAN.

HAZARDOUS SPILL CONTROL PLAN WITH GUIDELINES ON CONTACTING THE 24 HOUR EMERGENCY RESPONSE PROGRAM FOR HAZARDOUS MATERIAL SPILLS. THIS SHALL INCLUDE COPIES OF DISCHARGE NOTIFICATIONS THAT HAVE OCCURRED WITHIN THE PROJECT LIMITS.

COMPLETED INSPECTION FORMS.

THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING THE FOLLOWING ITEMS TO FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION IN ORDER FOR

THE NPDES PERMIT TO BE PROCESSED:

FDEP FOR 62-621.300(4)(8) - NOTICE OF INTENT (NOi) TO USE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES. THIS NOTICE OF INTENT SHALL BE SIGNED BY THE CONTRACTOR.

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OLD GERMANTOWN ROAD
STORMWATER POLLUTION PREVENTION PLAN

SHEET: 110
OF: 177
PROJECT NO. 444377-1

THE PERMITTING FEE IS BASED ON THE PROJECT'S CLEAR AND GRUB AREA AND IS THE RESPONSIBILITY OF THE CONTRACTOR.

IT JS THE CONTRACTOR'S RESPONSIBILITY TO SUBMIT THE NOi TO FDEP

NO LESS THAN 48 HOURS PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PROOF OF MAIL DATE TO THE PROJECT ADMINISTRATOR.

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OLD GERMANTOWN ROAD

STORMWATER POLLUTION PREVENTION PLAN

SHEET: 111
OF: 177

PROJECT NO. 444377-1

BEGIN PROJECT
℄ SURVEY OLD GERMANTOWN ROAD
STA 10+21.16

OLD GERMANTOWN ROAD

+58.18
47.52' (LT)

R/W LINE

+04.76
38.00' (LT)

℄ SURVEY OLD GERMANTOWN ROAD

N

0 10 40
Feet

10 11 12 13 14 15

OLD GERMANTOWN ROAD

+98.60
37.96' (RT)

+66.48
42.21' (RT)

+82.95
41.25' (RT)

+22.92
57.22' (RT)

+44.69
65.80' (RT)

40' 16.9' 7.1' 14.2' 8.8' 12' 5'

6' 12'

R/W LINE

BEGIN ℄ SURVEY
OLD GERMANTOWN ROAD
STA. 10+00.00

MATCH LINE STA 15+60.00

LEGEND

SEDIMENT BARRIER

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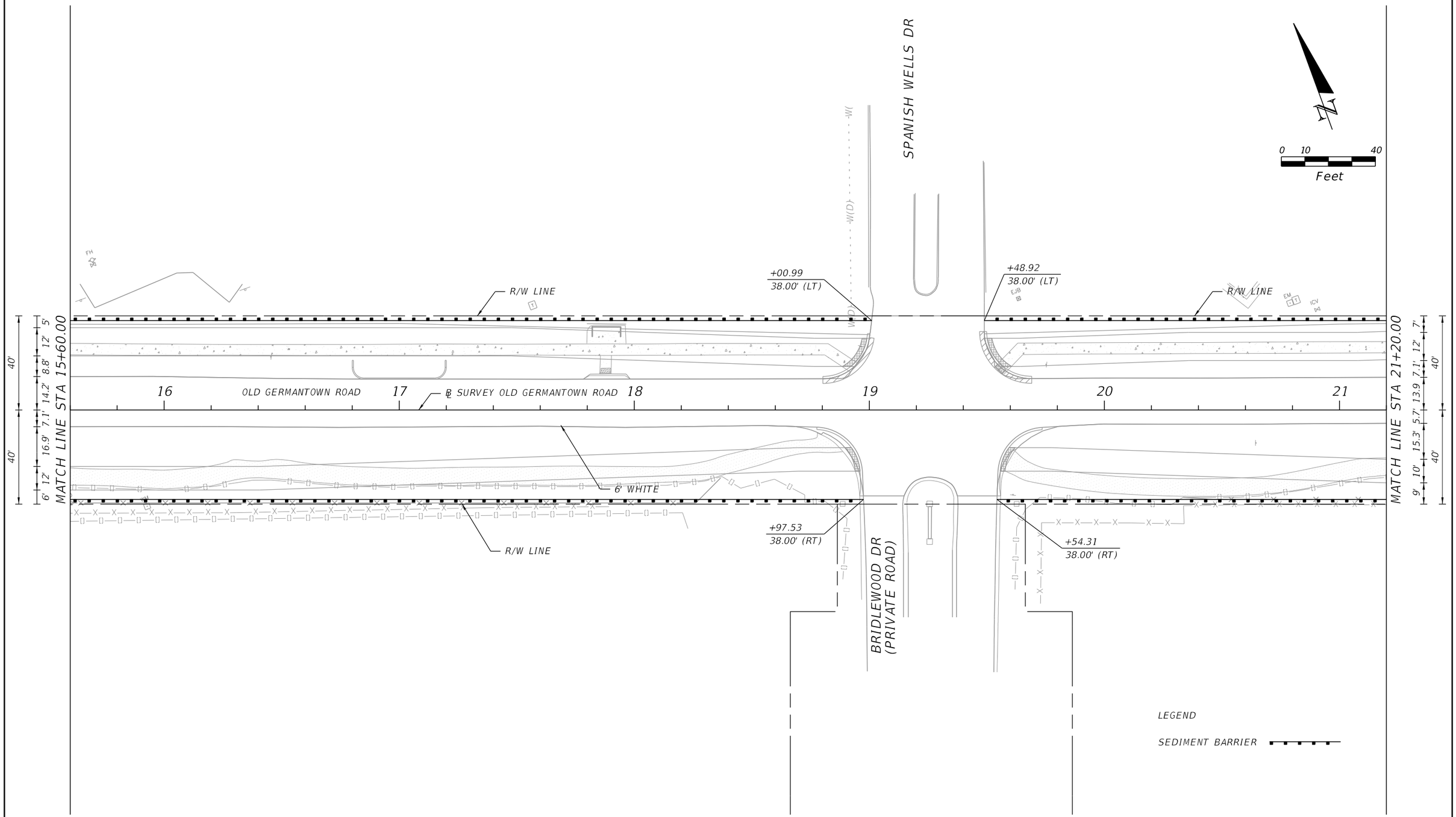
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OLD GERMANTOWN ROAD
EROSION CONTROL PLAN

SHEET: 112
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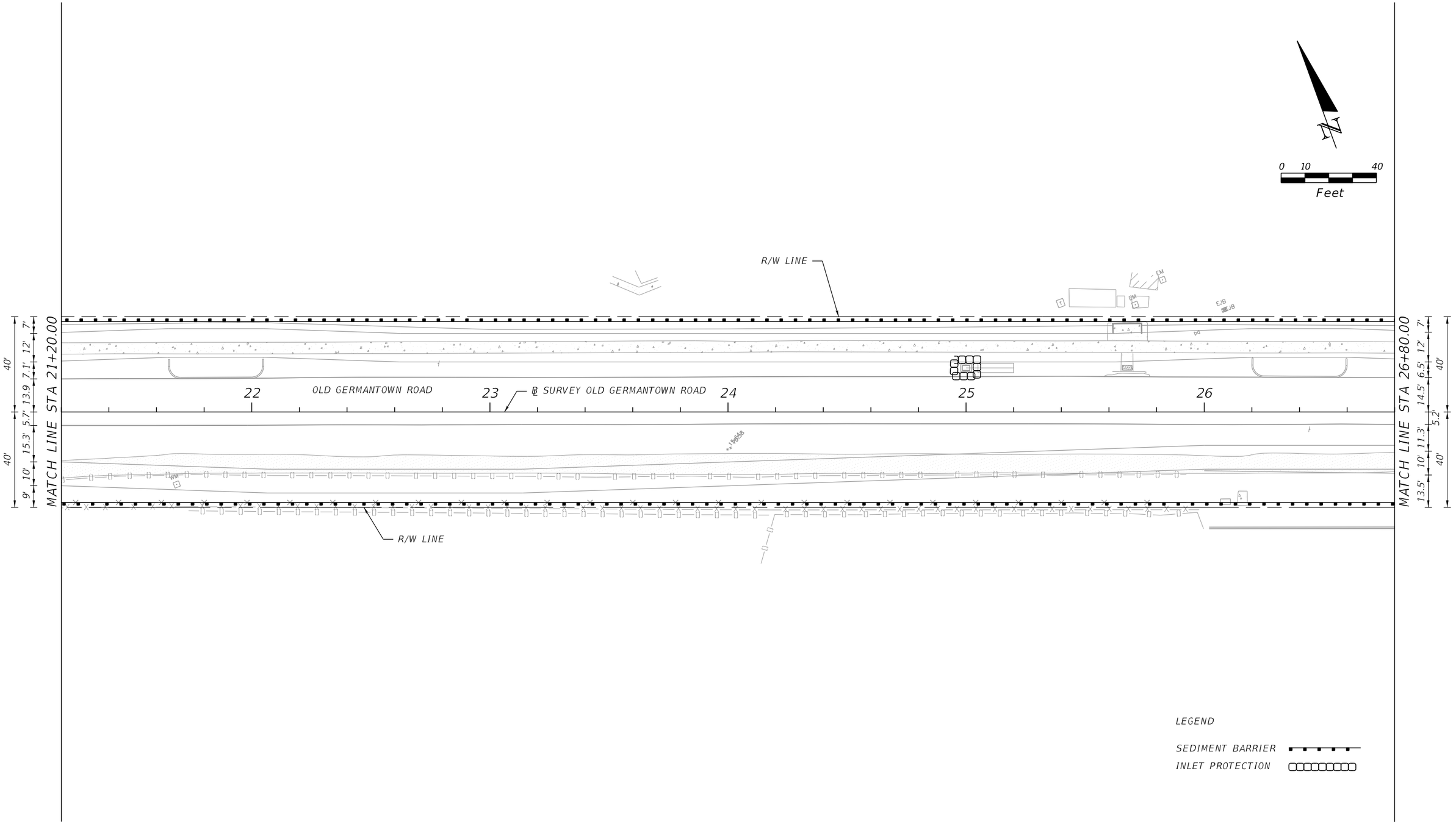
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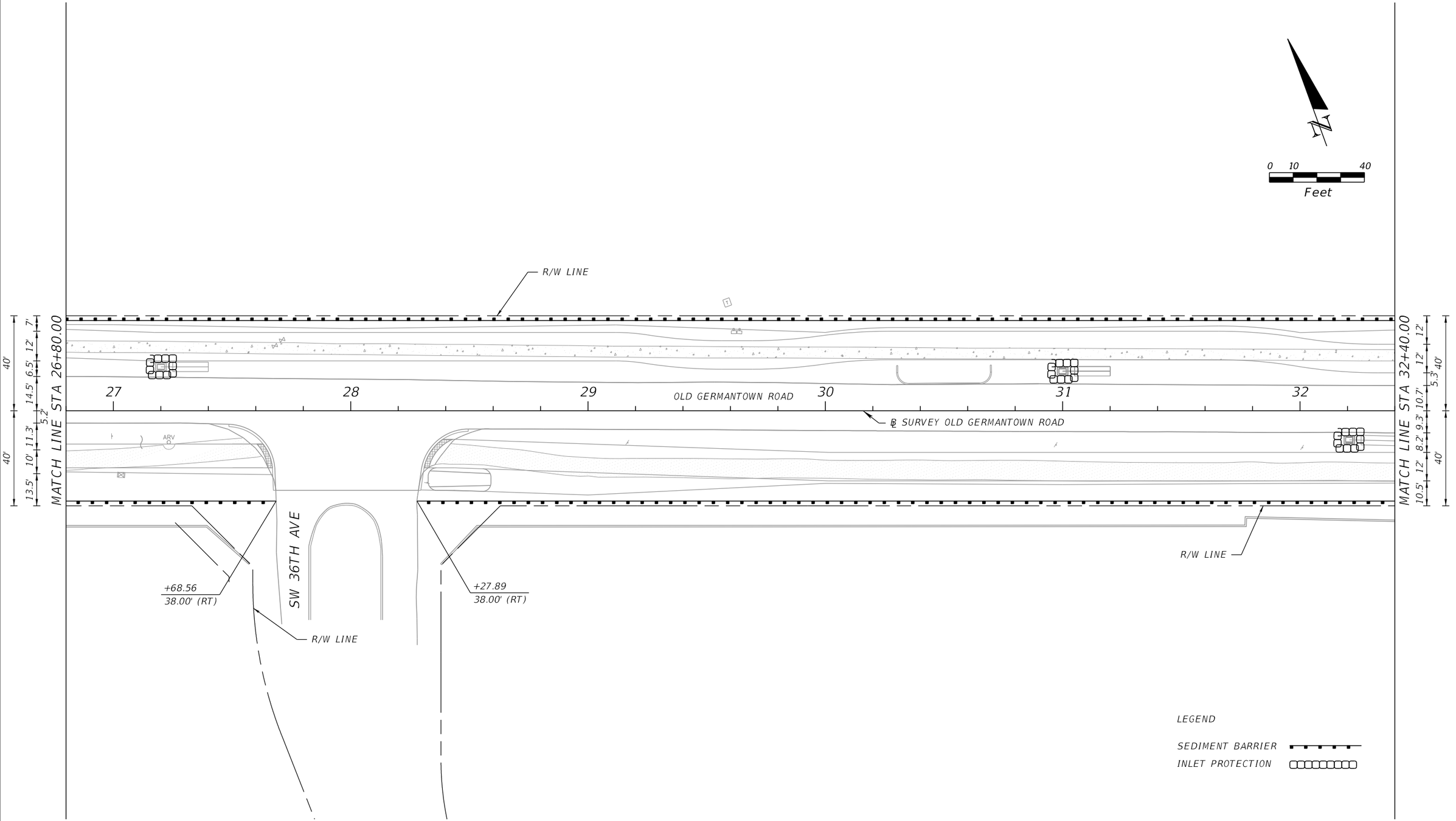
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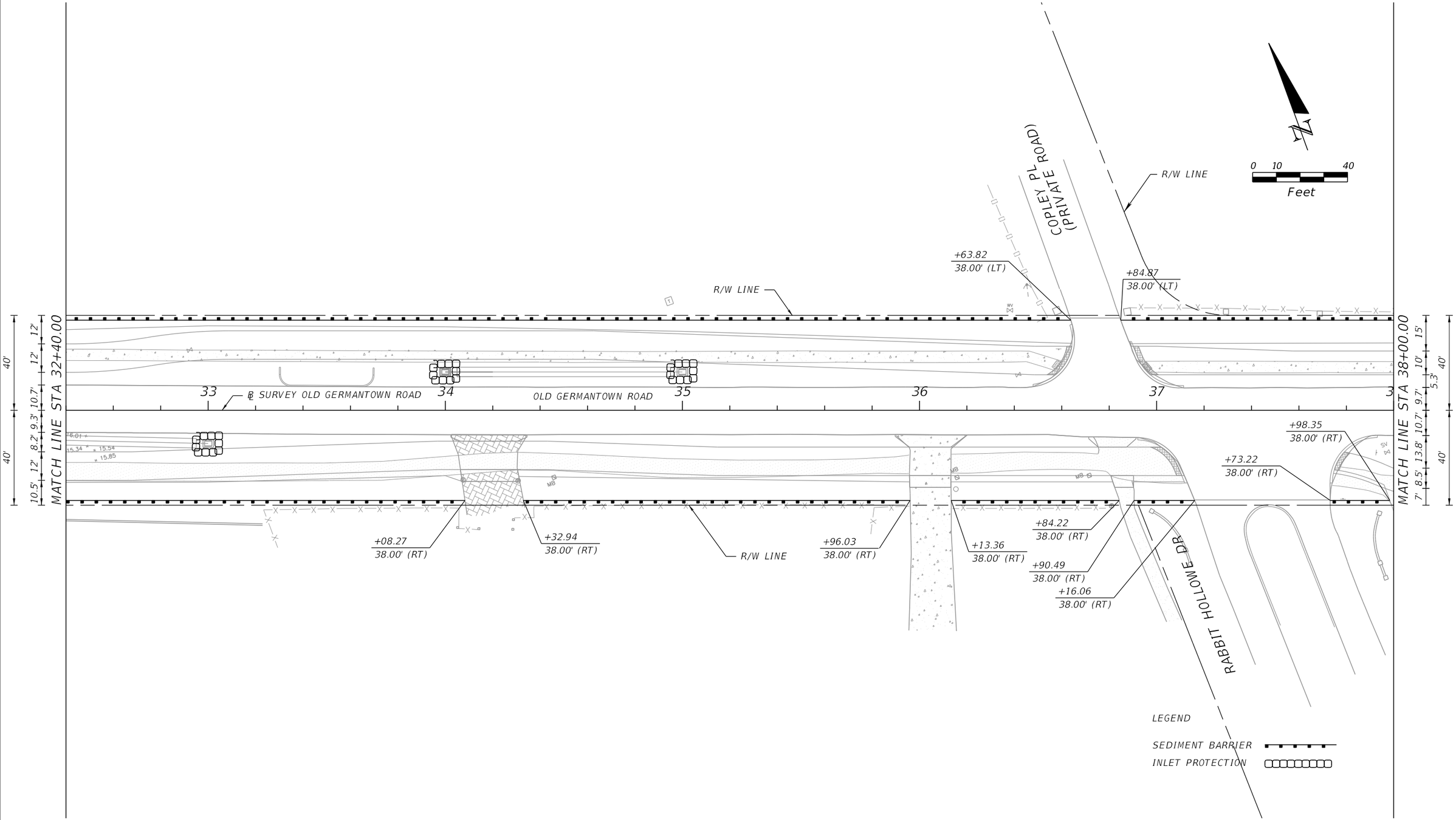
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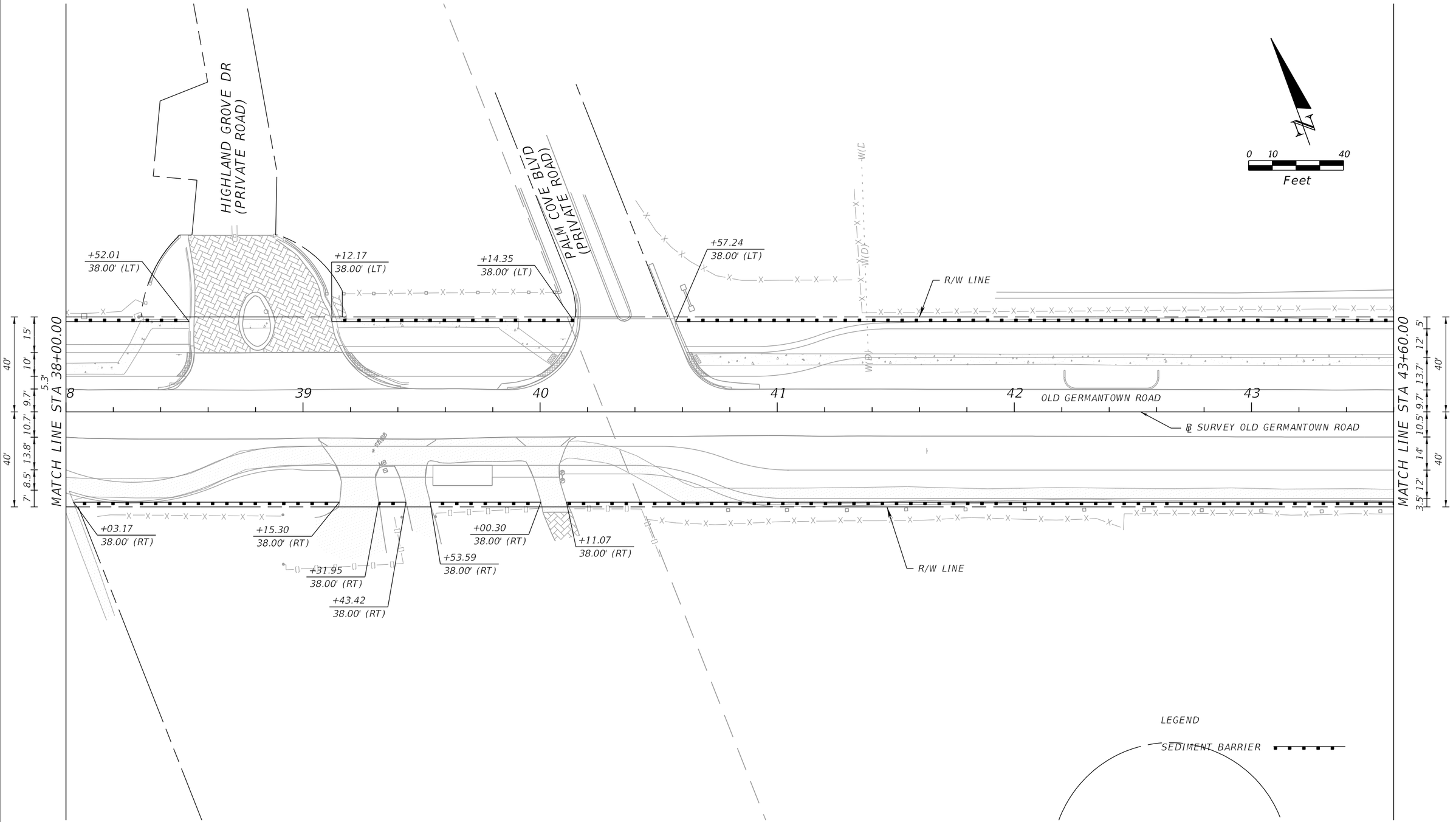
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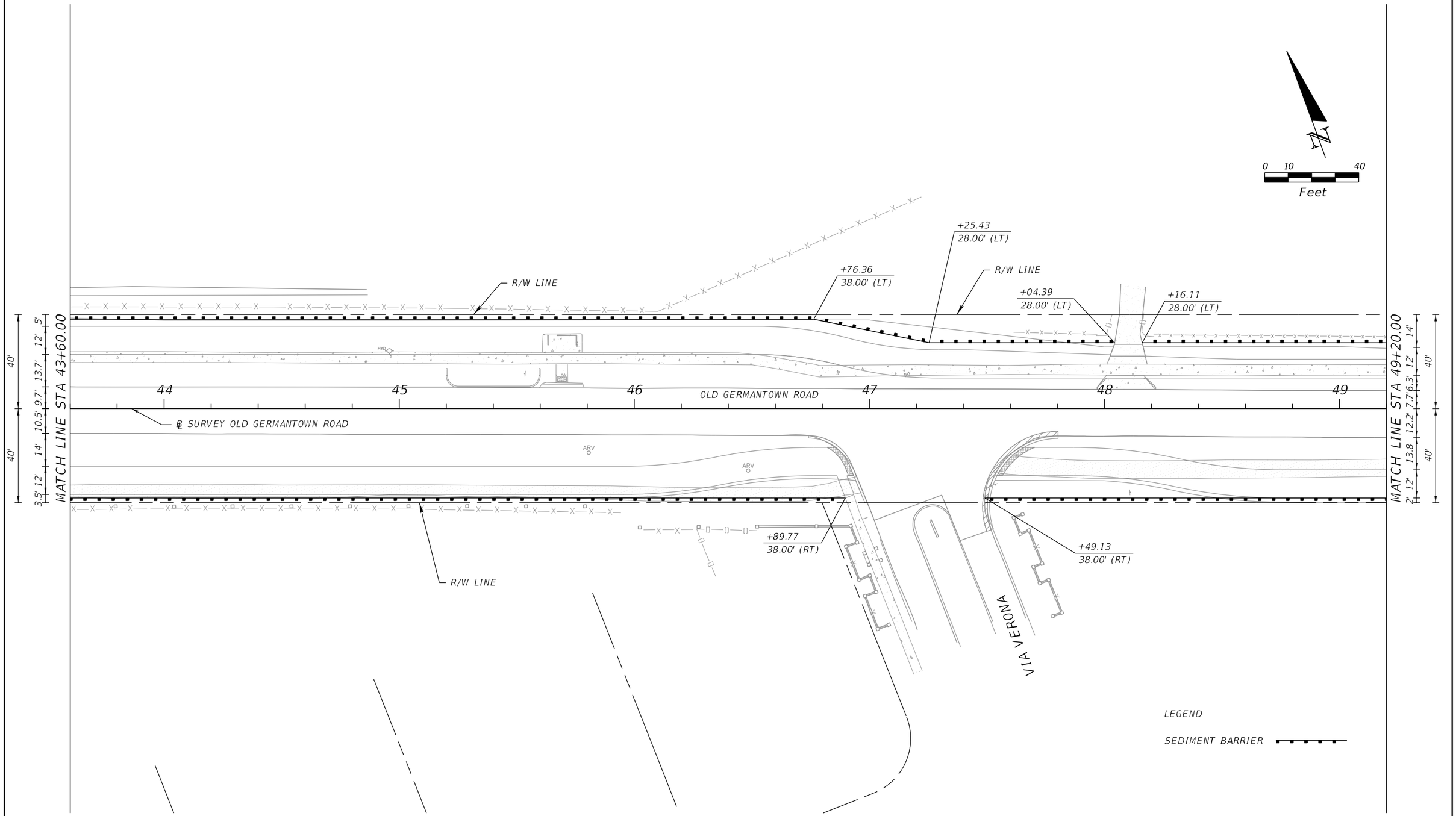
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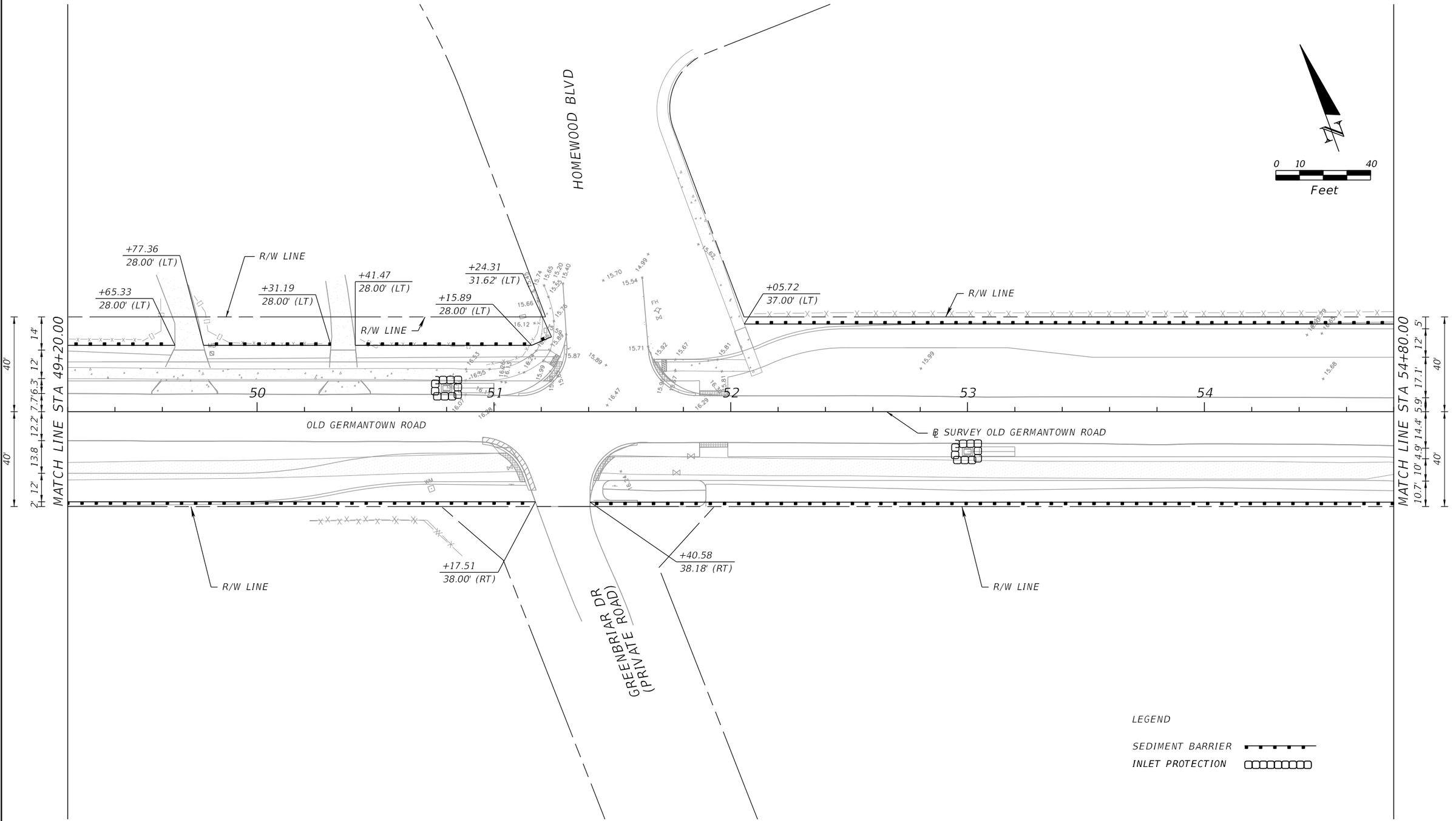
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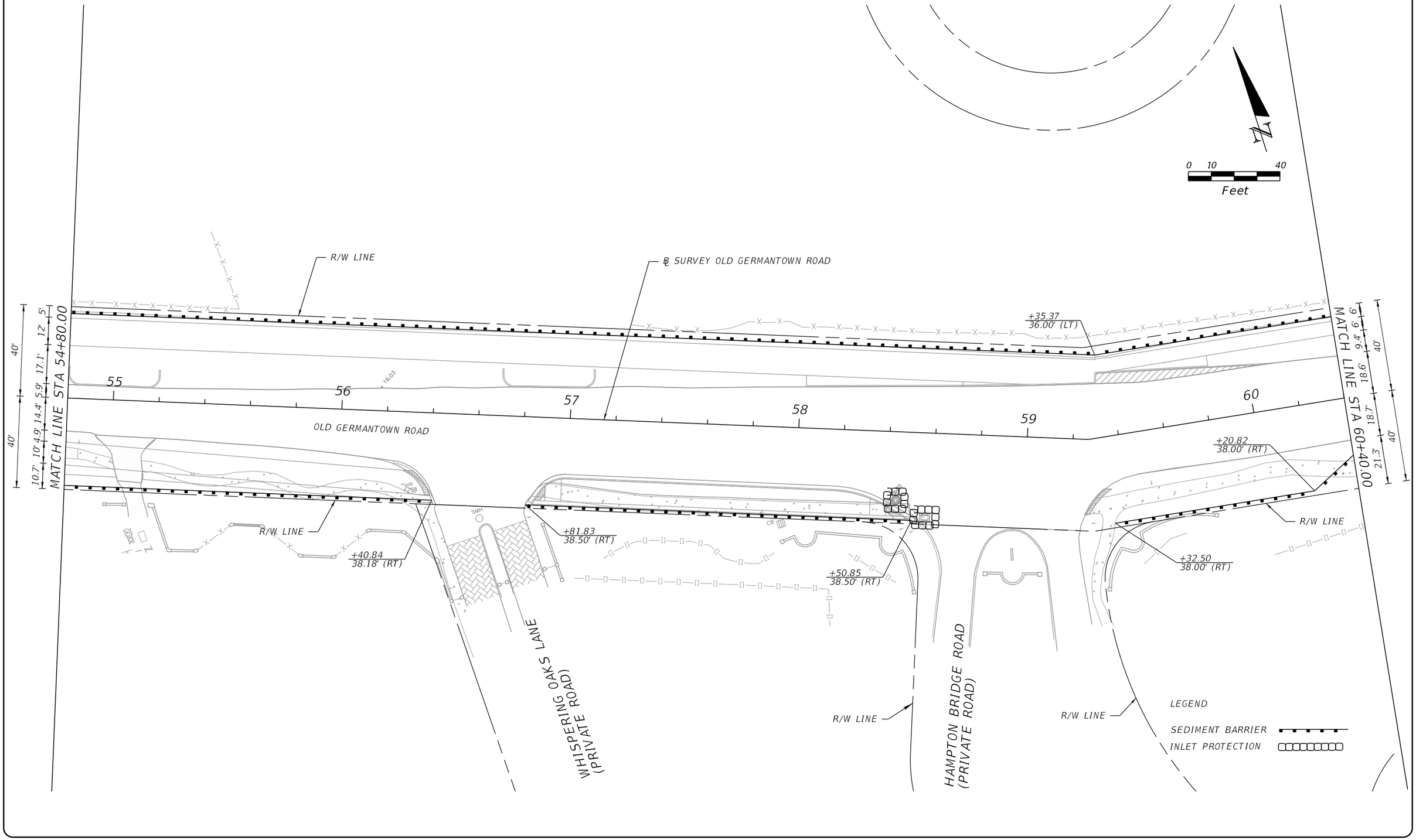
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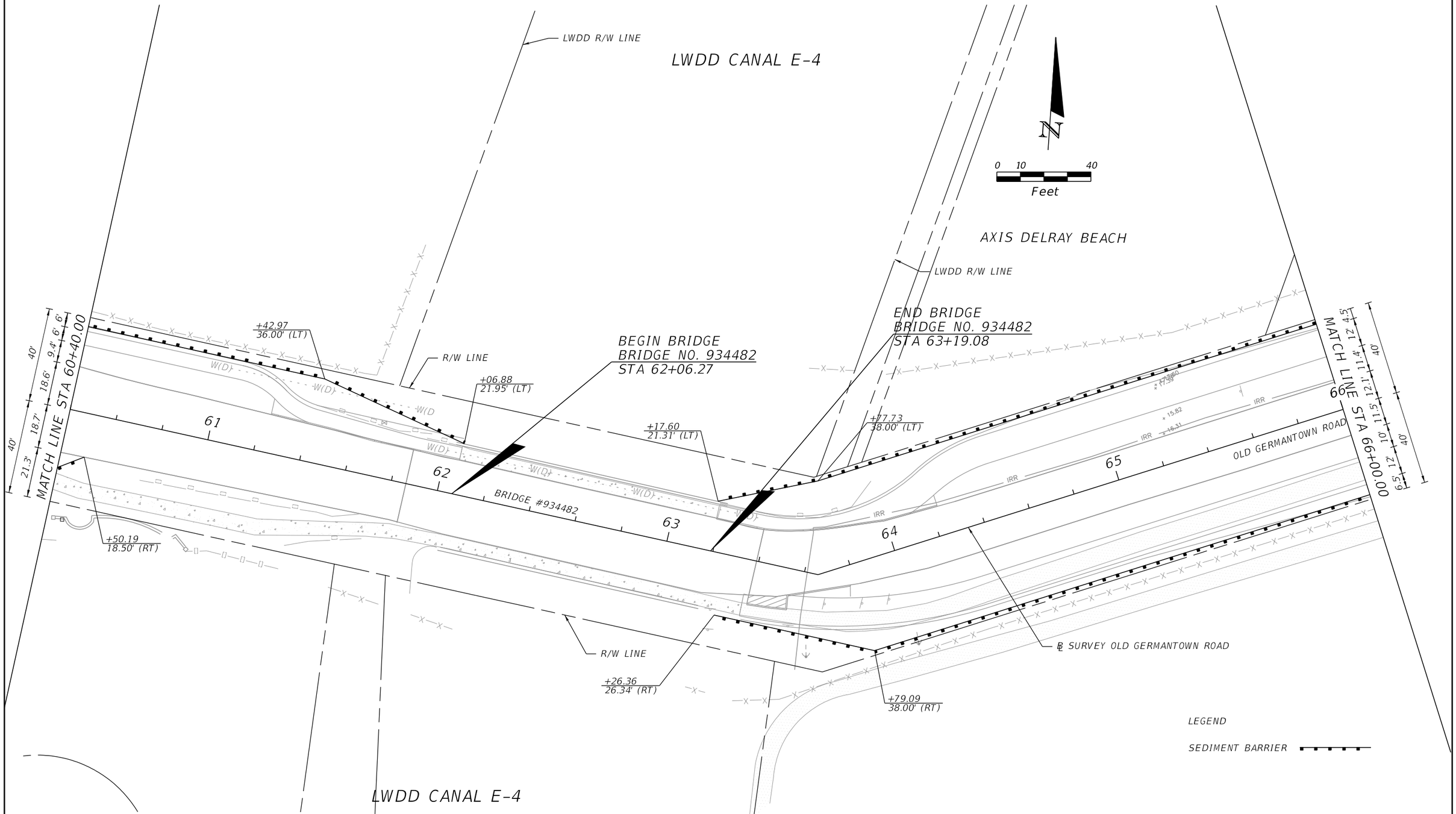
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OLD GERMANTOWN ROAD
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OLD GERMANTOWN ROAD
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AXIS DELRAY BEACH

N

0 10 40
Feet

MATCH LINE STA 66+00.00

40'
6.5' 12' 10' 11.5' 12.1' 11.4' 12' 4.5'

66 67 68 OLD GERMANTOWN ROAD 69 70 71

℄ SURVEY OLD GERMANTOWN ROAD

IRR IRR IRR IRR

R/W LINE

R/W LINE

+70.77
38.00' (RT)

99 SW 22ND AVE

℄ SURVEY SW 22 AVE

100

+43.84
38.32' (RT)

R/W LINE

MATCH LINE STA 71+60.00

40'
2' 12' 12.6' 13.4' 9.2' 12' 4.5'

LEGEND

SEDIMENT BARRIER

INLET PROTECTION

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434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

OLD GERMANTOWN ROAD

EROSION CONTROL PLAN

SHEET: 122
OF: 177
PROJECT NO. 444377-1

S:\2240010200-Germantown_Complete_St\44437715801\emo\PLANEM11.dgn IsaHammadu 4/4/2024 2:24:09 PM

AXIS DELRAY BEACH

N

0 10 40
Feet

R/W LINE

MATCH LINE STA 71+60.00

40' 2' 12' 12.6' 13.4' 14.3' 9.2' 12' 4.5'

72 73 OLD GERMANTOWN ROAD 74 75 76 77

℄ SURVEY OLD GERMANTOWN ROAD

MATCH LINE STA 77+20.00

40' 2' 12' 9.3' 16.7' 17.9' 5.6' 12' 4.5'

+01.37
38.32' (RT)

+31.69
38.33' (RT)

+25.93
38.33' (RT)

+67.34
38.33' (RT)

+02.03
38.33' (RT)

R/W LINE

LEGEND

SEDIMENT BARRIER

INLET PROTECTION

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PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:
MAJHARUL ALAM, PE
P.E# 61600

No.	Revisions	By	Date

CITY of DELRAY BEACH
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OLD GERMANTOWN ROAD
EROSION CONTROL PLAN

SHEET:123
OF: 177
PROJECT NO. 444377-1

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AXIS DELRAY BEACH

SPRING HARBOR DR

N

0 10 40

Feet

MATCH LINE STA 77+20.00

40' 17.9' 5.6' 12' 4.5'

2' 12' 9.3' 16.7'

78 79 80 81 82

℄ SURVEY OLD GERMANTOWN ROAD

OLD GERMANTOWN ROAD

IRR

R/W LINE

+40.13
38.00' (LT)

+66.94
38.00' (LT)

+00.23
38.33' (RT)

+45.10
38.33' (RT)

+66.15
38.33' (RT)

+68.67
38.33' (RT)

+12.24
38.33' (RT)

+93.94
38.32' (RT)

R/W LINE

MATCH LINE STA 82+80.00

40' 18.2' 5.3' 9.3' 7.2'

3' 6' 12.6' 18.4' 40'

LEGEND

SEDIMENT BARRIER

INLET PROTECTION

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OLD GERMANTOWN ROAD

EROSION CONTROL PLAN

SHEET: 124
OF: 177
PROJECT NO. 444377-1

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AXIS DELRAY BEACH

SPRING HARBOR DR

R/W LINE

+16.46
58.64' (LT)

+86.73
38.00' (LT)

IRR

83 84 85 86

OLD GERMANTOWN ROAD

END B SURVEY OLD GERMANTOWN ROAD
STA 86+53.00

R/W LINE

0 10 40
Feet

40'
3' 6' 12.6' 18.4' 8.4'
MATCH LINE STA 82+80.00
5.3' 9.3' 7.2'
18.2'

+97.82
38.32' (RT)

R/W LINE

SOUTH CONGRESS AVE

END PROJECT
B SURVEY OLD GERMANTOWN ROAD
STA 86+16.20

LEGEND

SEDIMENT BARRIER

MY WIGS BOUTIQUE BY HAIRCLUB

US CLAIMS

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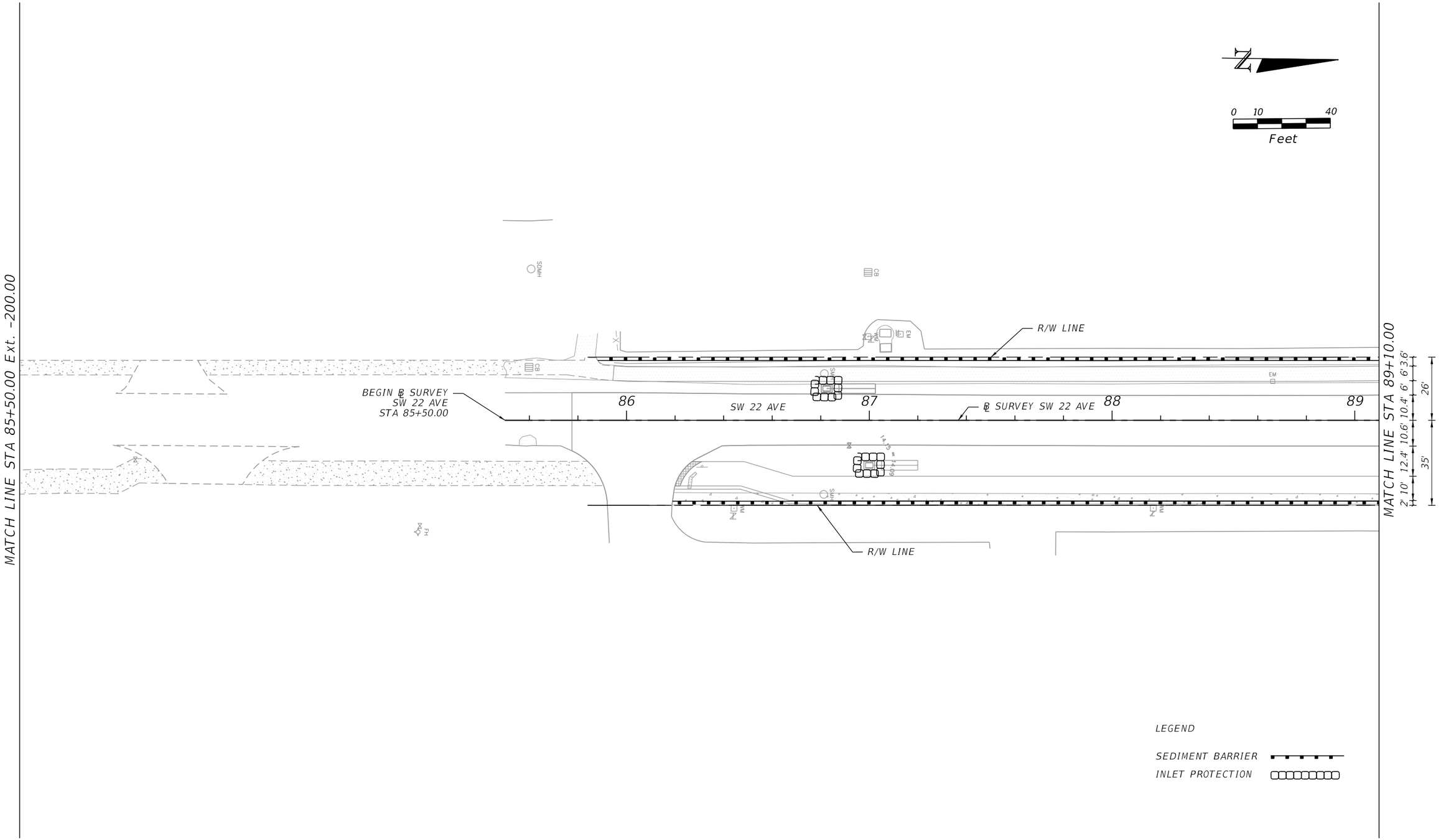
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OLD GERMANTOWN ROAD

EROSION CONTROL PLAN

SHEET: 125
OF: 177
PROJECT NO. 444377-1

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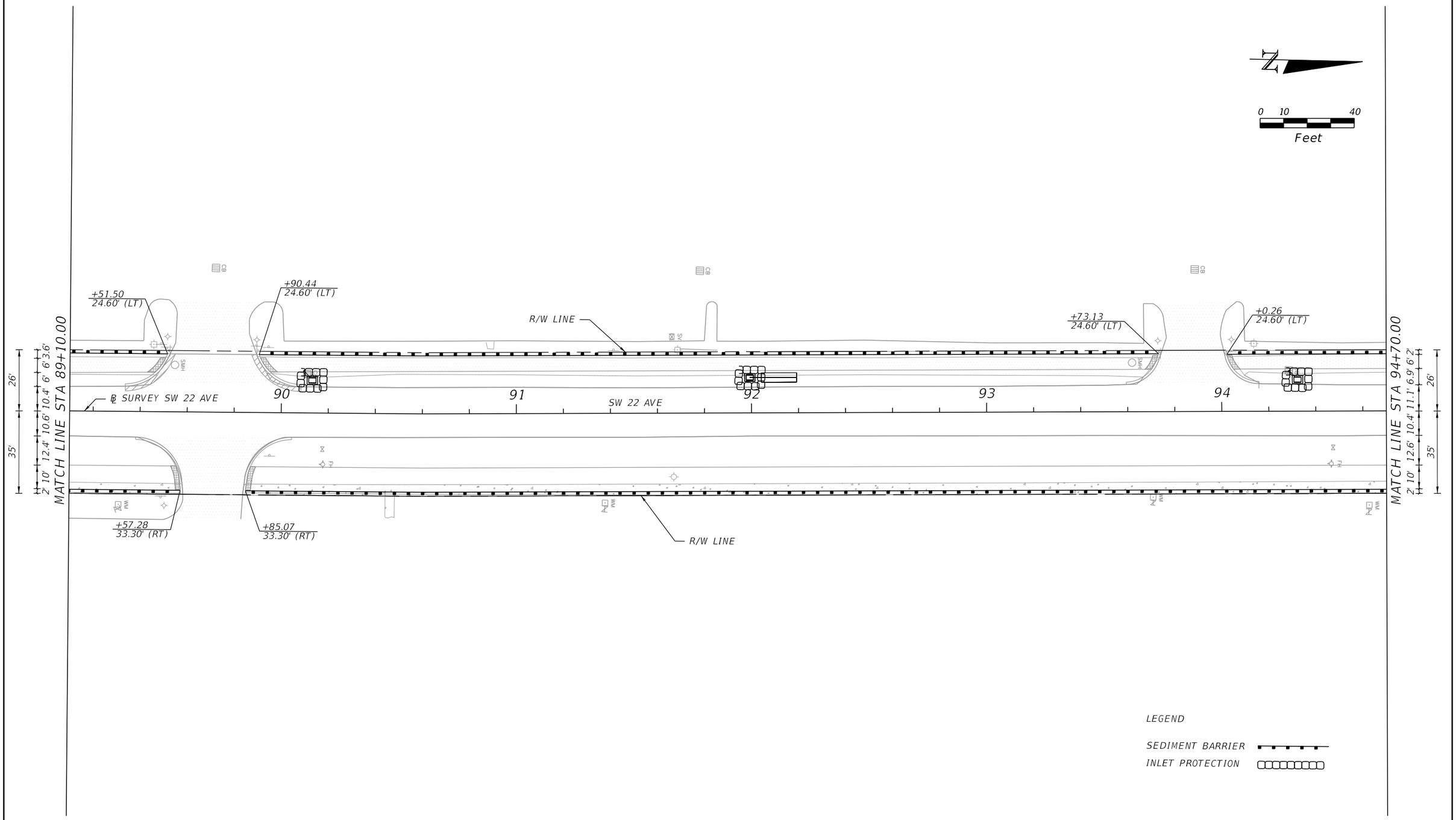
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SW 22ND AVE

EROSION CONTROL PLAN

SHEET: 126
OF: 177
PROJECT NO. 444377-1



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SW 22ND AVE

EROSION CONTROL PLAN

SHEET: 127
OF: 177
PROJECT NO. 444377-1

N

0 10 40
Feet

MATCH LINE STA 94+70.00

26'
35'
0.4' 11.1' 6.9' 2'
2' 10' 12.6' 10.4' 11.1'

95 SW 22 AVE 96 97 ℄ SURVEY SW 22 AVE 98 99 100

℄ SURVEY SW 22 AVE

SW 22ND AVE

68 OLD GERMANTOWN ROAD

69

R/W LINE

+14.37
24.60' (LT)

R/W LINE

+35.47
33.30' (RT)

+63.00
33.30' (RT)

+71.33
33.30' (RT)

R/W LINE

CB
SMH
MW
IRR
BM21 AT&T TOP=16.26' COVER=2.00'
2" AT&T TOP=15.25' COVER=1.68'
BM22 CLEAR ELEV=16.92'
BM23 CLEAR ELEV=17.55' TOP=14.78' COVER=1.50

LEGEND

SEDIMENT BARRIER

INLET PROTECTION

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SW 22ND AVE

EROSION CONTROL PLAN

SHEET: 128
OF: 177
PROJECT NO. 444377-1

TEMPORARY TRAFFIC CONTROL GENERAL NOTES

1. ALL MAINTENANCE OF TRAFFIC (MOT) FOR THIS PROJECT WILL BE IN COMPLIANCE WITH THE FY 2023-24 FDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION, THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAY (MUTCD) AS MINIMUM CRITERIA.

2. WORKING HOURS FOR CONSTRUCTION ARE MONDAY – FRIDAY, 7:00 AM TO 6:00 PM, AND SATURDAY 8:00 AM TO 4PM. NO WORK IS ALLOWED OUTSIDE THESE SPECIFIED TIMES, OR THE CITY'S LEGAL HOLIDAYS WITHOUT THE CITY'S WRITTEN CONSENT OR APPROVAL. NO EQUIPMENT "BACK UP ALARMS" PRIOR TO 7:00 AM. THE ENTIRE PROJECT MUST BE SHUTDOWN, SITE CLEANED UP, AND WITH ANY NECESSARY BARRICADES PLACE BY 6:00 PM.

3. NO EXISTING SIDE STREETS/DRIVEWAYS ACCESS ARE ALLOWED TO BE CLOSED DURING CONSTRUCTION.

4. THE REGULATORY SPEED ESTABLISHED WITHIN WORK ZONE TRAVEL LANES SHALL BE REDUCED TO 30 MPH.

5. THE CONTRACTOR MUST PROVIDE A SAFE PEDESTRIAN ACCESS TO PRIVATE PROPERTIES AT ALL TIMES.

6. CONTRACTOR SHALL ESTABLISH TEMPORARY BUS STOPS IN A SAFE AREA, IN ACCORDANCE WITH PALM BEACH COUNTY STANDARDS.

7. ALL STRIPING AND DELINEATOR TO CONFORM TO THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (MUTCD) LATEST EDITION

8. ALL CROSSWALK SIGNS AND ADVANCED PAVEMENT MESSAGES SHALL BE DESIGNED AND INSTALLED PER FDOT STANDARD PLANS.

9. SEE LANDSCAPE PLANS FOR REMOVAL/RELOCATION OF TREES, SHRUBS, AND ALL OTHER LANDSCAPING CONFLICTS.

10. REFERENCE THE FDOT STANDARD PLANS 102-600 SERIES FOR ALL REQUIRED AND APPLICABLE MOT PLANS.

11. ALL WORK FOR THIS PROJECT WILL BE COMPLETED WITHIN AND FROM THE EXISTING RIGHT OF WAY.

12. PROVIDE DROP OFF PROTECTION AS REQUIRED PER STANDARD PLAN INDEX 102-600 SHEET 8 OF 11. PHASING DURING TEMPORARY LANE CONFIGURATIONS AT INTERSECTIONS.

13. HAZARDS WITHIN CLEAR ZONE WIDTHS REQUIRE PROPER PROTECTION PER STANDARD PLANS INDEX 102-600 SHEET 3 OF 11.

14. EXISTING PAVEMENT MARKINGS CONFLICTING WITH TEMPORARY MARKINGS/MESSAGES SHALL BE REMOVED AT NO ADDITIONAL COST.

15. MOT PLANS ARE FOR REFERENCE ONLY. CONTRACTOR MUST SUBMIT A MOT PLAN THAT NEED TO BE APPROVED BY THE ONLY CITY PRIOR TO STARTING CONSTRUCTION.

ADVANCE CONSTRUCTION NOTICE

16. A PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) SHALL BE USED AS INDICATED IN THE TRAFFIC CONTROL PLANS OR AS DIRECTED BY THE ENGINEER UNDER THE FOLLOWING CONDITIONS:

(I) TWO (2) WEEKS PRIOR TO CONSTRUCTION, INSTALL PCMS AS PER STANDARD PLANS INDEX 102-600.

(II) DURING ACTIVE WORK PERIODS FOR GERMANTOWN ROAD EASTBOUND AND WESTBOUND INSTALL PCMS AS IDENTIFIED IN THE TEMPORARY TRAFFIC CONTROL PLANS (PCMS 2).

PCMS 1
2 WEEKS PRIOR TO CONSTRUCTION

MESSAGE 1	MESSAGE 2
ROAD WORK BEGINS	MM/DD YYYY

PCMS 2
DURING CONSTRUCTION

ROAD WORK AHEAD	LANE CLOSURES

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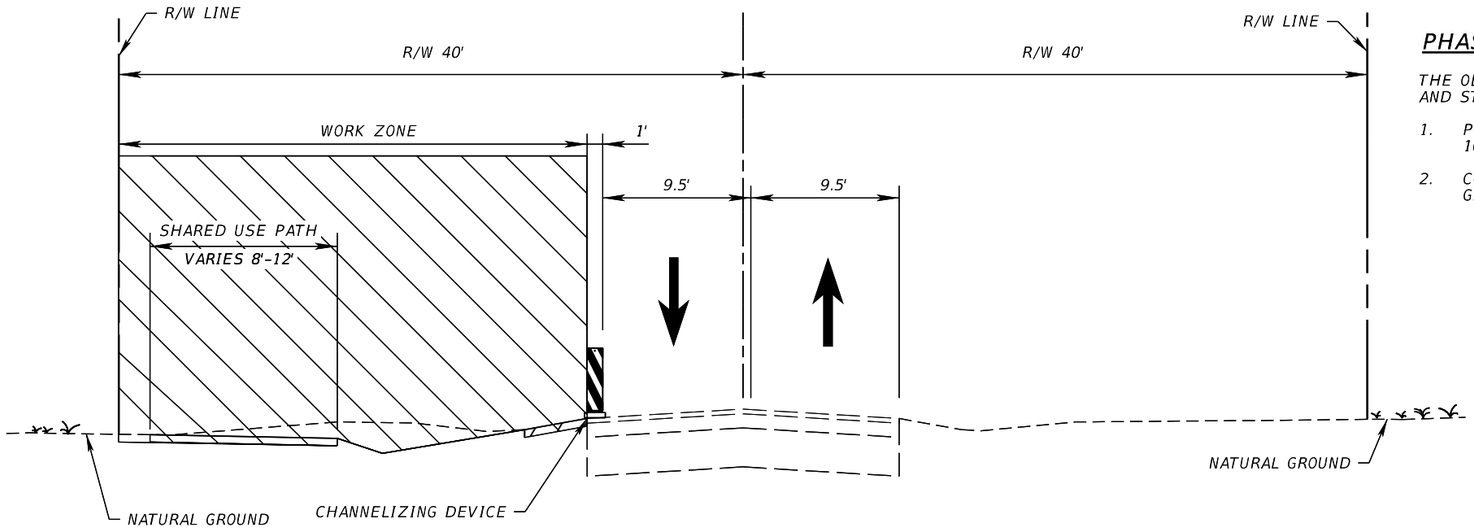
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OLD GERMANTOWN ROAD
TEMPORARY TRAFFIC CONTROL PLAN

SHEET: 129
OF: 177
PROJECT NO. 444377-1

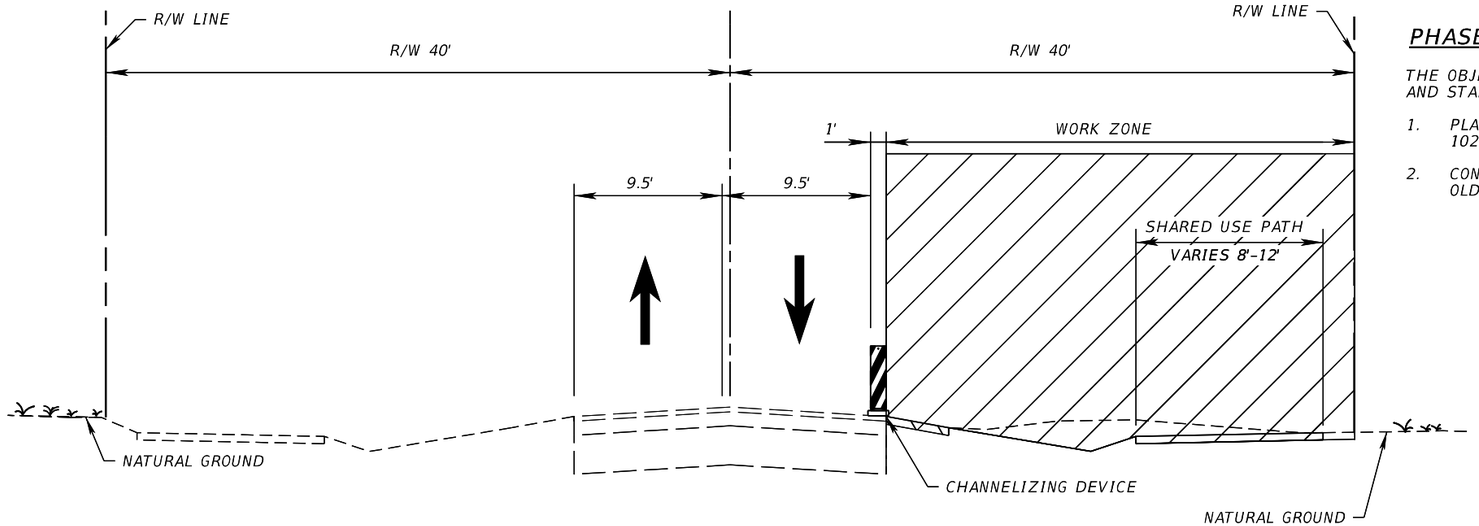


PHASE I - OLD GERMANTOWN ROAD

PHASE I

THE OBJECTIVE OF THIS PHASE IS TO CONSTRUCT THE SHARED USE PATH, DRIVEWAYS, DRAINAGE STRUCTURES, AND STABILIZATION IN THE WESTBOUND DIRECTION ON OLD GERMANTOWN ROAD.

1. PLACE SIGNS, BARRICADES, AND OTHER DEVICES IN ACCORDANCE WITH STANDARD PLANS INDEX 102-600 AND 102-602.
2. CONSTRUCT SHARED USE PATH, DRIVEWAYS, AND STABILIZATION IN THE WESTBOUND DIRECTION ON OLD GERMANTOWN ROAD.



PHASE II - OLD GERMANTOWN ROAD

PHASE II

THE OBJECTIVE OF THIS PHASE IS TO CONSTRUCT THE SHARED USE PATH, DRIVEWAYS, DRAINAGE STRUCTURES, AND STABILIZATION IN THE EASTBOUND DIRECTION ON OLD GERMANTOWN ROAD.

1. PLACE SIGNS, BARRICADES, AND OTHER DEVICES IN ACCORDANCE WITH STANDARD PLANS INDEX 102-600 AND 102-602.
2. CONSTRUCT SHARED USE PATH, DRIVEWAYS, AND STABILIZATION IN THE EASTBOUND DIRECTION ON OLD GERMANTOWN ROAD.

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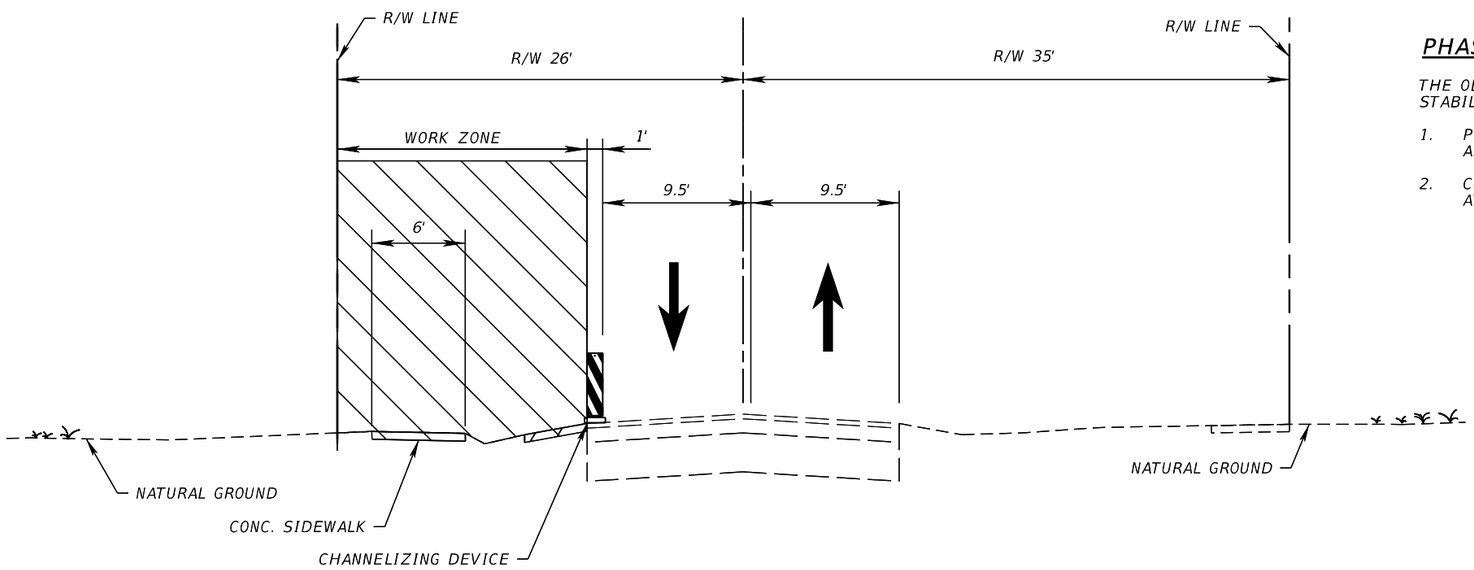
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OLD GERMANTOWN ROAD

TEMPORARY TRAFFIC CONTROL PLAN

SHEET: 130
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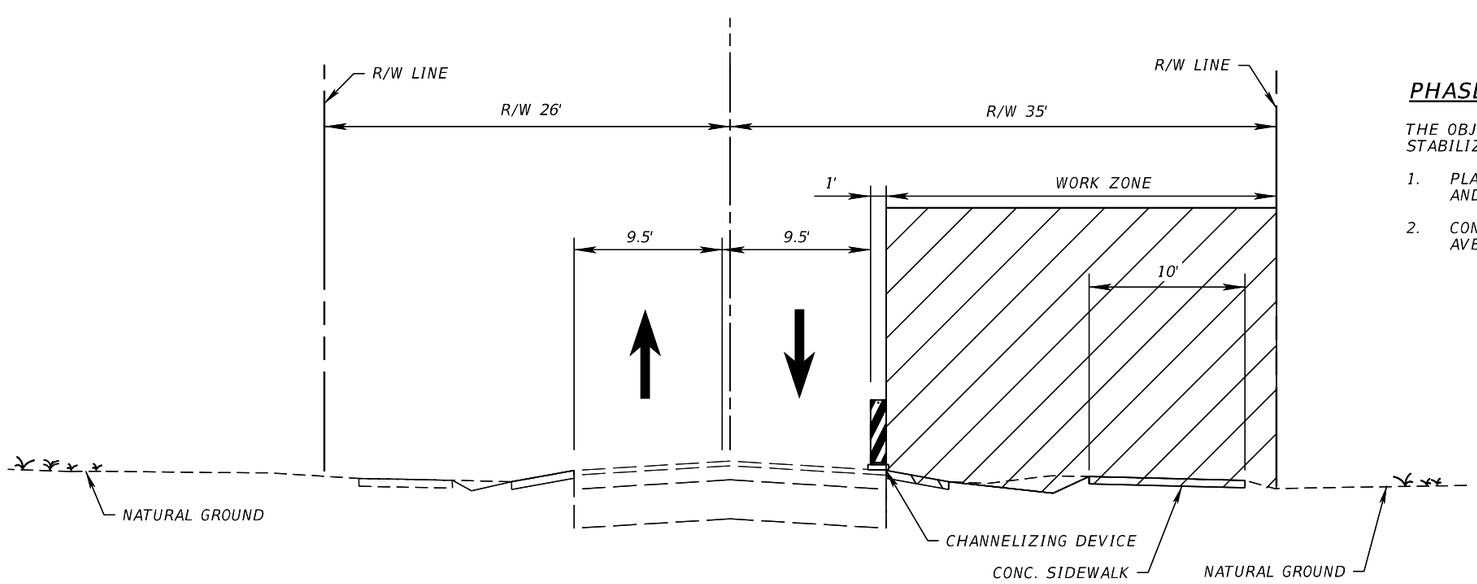


PHASE I - SW 22ND AVENUE

PHASE I

THE OBJECTIVE OF THIS PHASE IS TO CONSTRUCT THE SIDEWALK, DRIVEWAYS, DRAINAGE STRUCTURES, AND STABILIZATION IN THE SOUTHBOUND DIRECTION ON SW 22ND AVENUE.

1. PLACE SIGNS, BARRICADES, AND OTHER DEVICES IN ACCORDANCE WITH STANDARD PLANS INDEX 102-600 AND 102-602.
2. CONSTRUCT SIDEWALK, DRIVEWAYS, AND STABILIZATION IN THE SOUTHBOUND DIRECTION ON SW 22ND AVENUE.



PHASE II - SW 22ND AVENUE

PHASE II

THE OBJECTIVE OF THIS PHASE IS TO CONSTRUCT THE SIDEWALK, DRIVEWAYS, DRAINAGE STRUCTURES, AND STABILIZATION IN THE NORTHBOUND DIRECTION ON SW 22ND AVENUE.

1. PLACE SIGNS, BARRICADES, AND OTHER DEVICES IN ACCORDANCE WITH STANDARD PLANS INDEX 102-600 AND 102-602.
2. CONSTRUCT SIDEWALK, DRIVEWAYS, AND STABILIZATION IN THE NORTHBOUND DIRECTION ON SW 22ND AVENUE.

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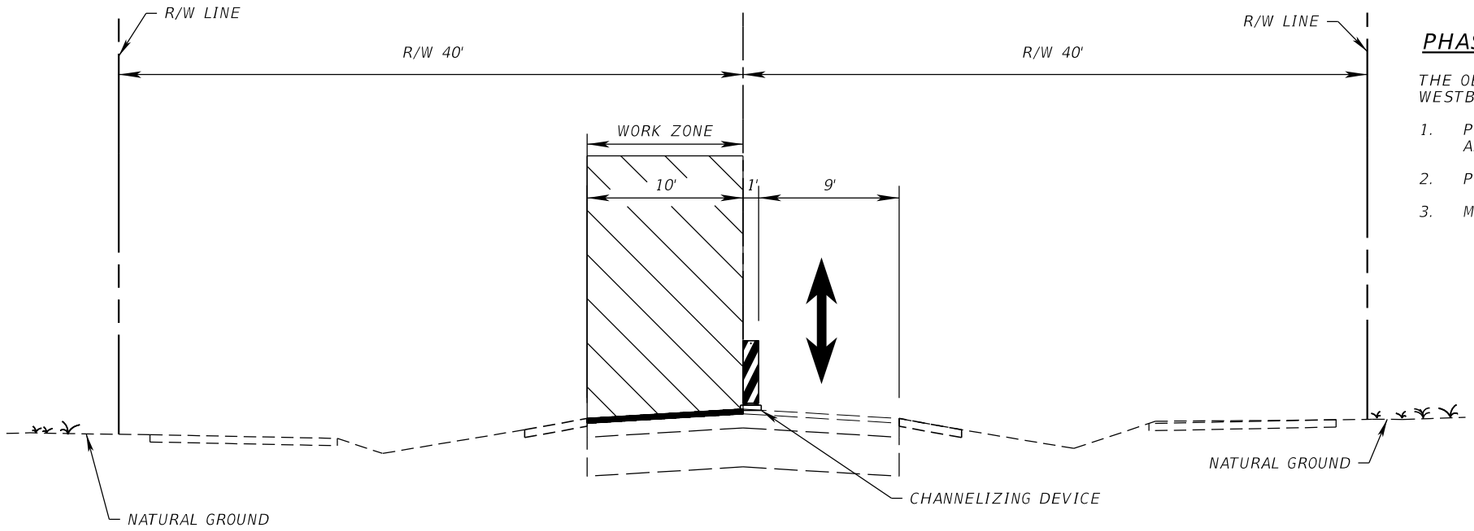
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SW 22ND AVE

TEMPORARY TRAFFIC CONTROL PLAN

SHEET: 131
OF: 177
PROJECT NO. 444377-1

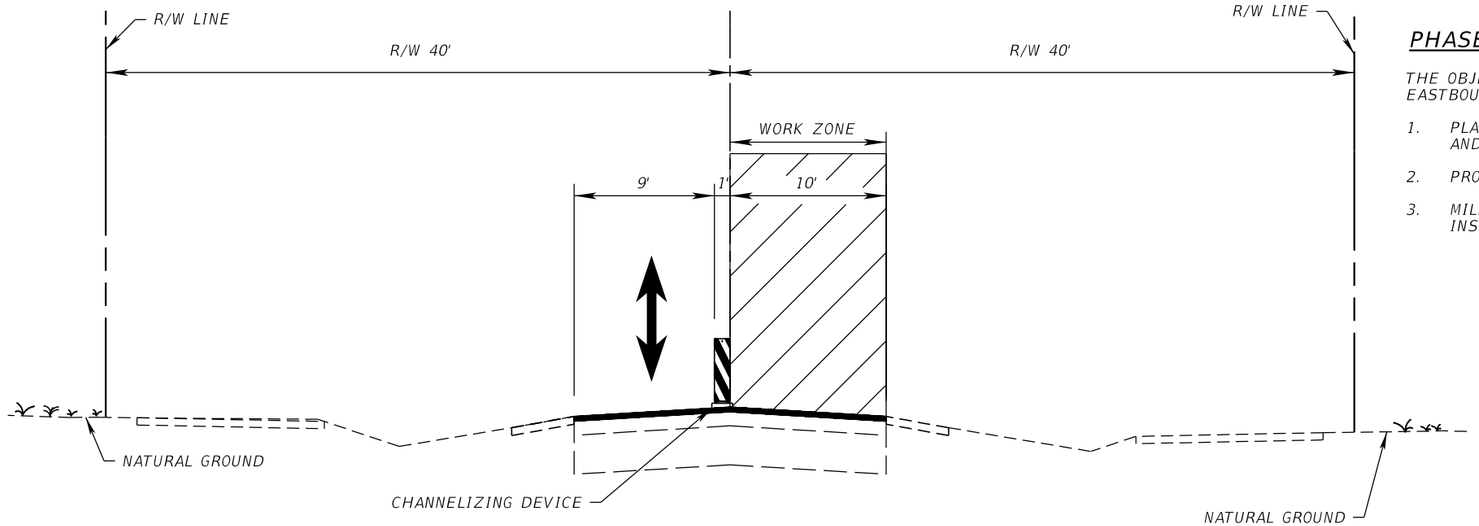


PHASE III - OLD GERMANTOWN ROAD

PHASE III

THE OBJECTIVE OF THIS PHASE IS PERFORM MILLING AND RESURFACING FOR THE THROUGH LANE IN THE WESTBOUND DIRECTION ON OLD GERMANTOWN ROAD.

1. PLACE SIGNS, BARRICADES, AND OTHER DEVICES IN ACCORDANCE WITH STANDARD PLANS INDEX 102-600 AND 102-603 IN THE WESTBOUND DIRECTION AS NECESSARY.
2. PROVIDE TRAFFIC CONTROL WITH A ONE-LANE, TWO-WAY FLAGGER OPERATION.
3. MILL AND RESURFACE TRAVEL LANE IN THE WESTBOUND DIRECTION ON OLD GERMANTOWN ROAD.



PHASE IV - OLD GERMANTOWN ROAD

PHASE IV

THE OBJECTIVE OF THIS PHASE IS PERFORM MILLING AND RESURFACING FOR THE THROUGH LANE IN THE EASTBOUND DIRECTION ON OLD GERMANTOWN ROAD.

1. PLACE SIGNS, BARRICADES, AND OTHER DEVICES IN ACCORDANCE WITH STANDARD PLANS INDEX 102-600 AND 102-603 IN THE WESTBOUND DIRECTION AS NECESSARY.
2. PROVIDE TRAFFIC CONTROL WITH A ONE-LANE, TWO-WAY FLAGGER OPERATION.
3. MILL AND RESURFACE TRAVEL LANE IN THE EASTBOUND DIRECTION ON OLD GERMANTOWN ROAD AND INSTALL PAVEMENT MARKINGS.

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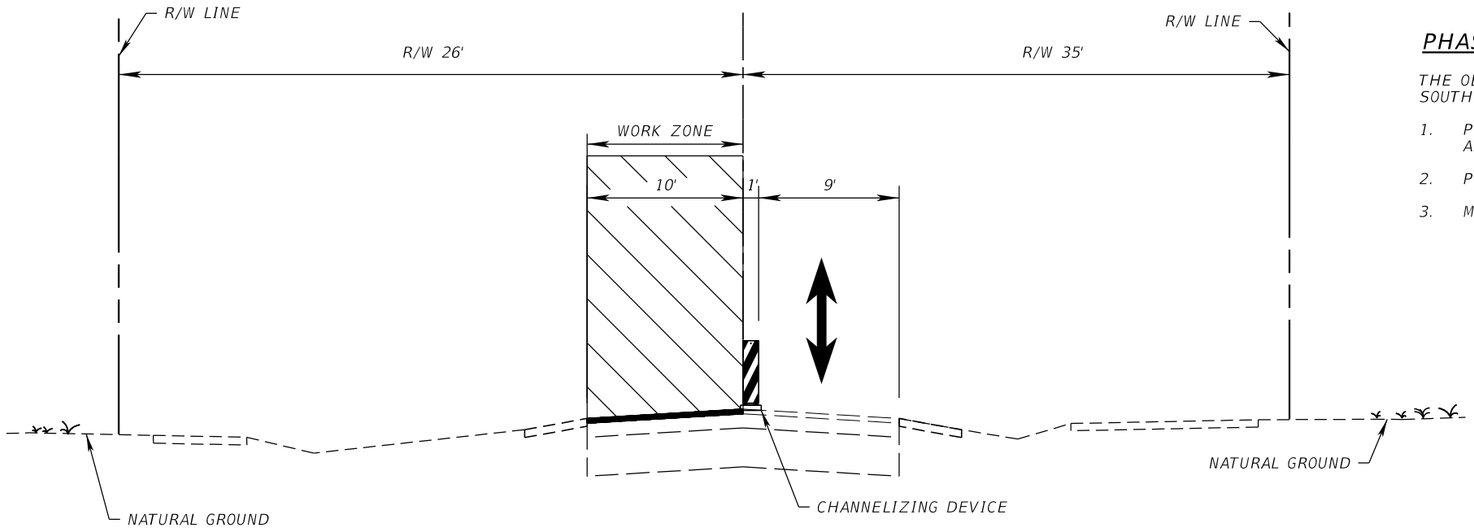
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OLD GERMANTOWN ROAD

TEMPORARY TRAFFIC CONTROL PLAN

SHEET: 132
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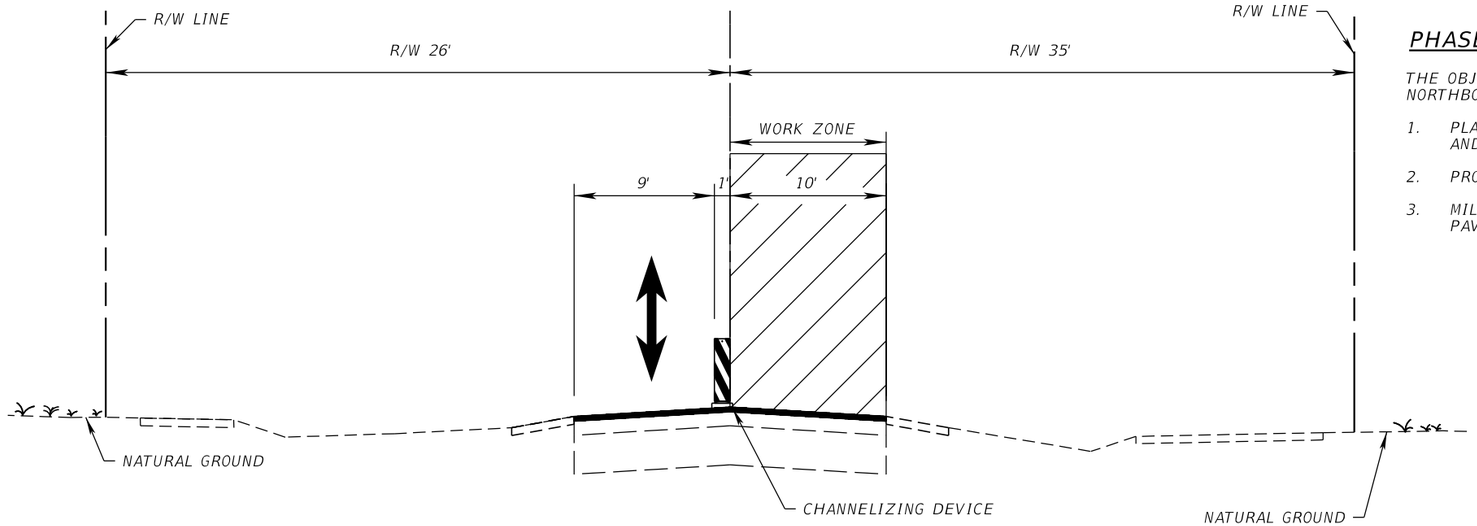


PHASE III - SW 22ND AVENUE

PHASE III

THE OBJECTIVE OF THIS PHASE IS PERFORM MILLING AND RESURFACING FOR THE THROUGH LANE IN THE SOUTHBOUND DIRECTION ON SW 22ND AVENUE.

1. PLACE SIGNS, BARRICADES, AND OTHER DEVICES IN ACCORDANCE WITH STANDARD PLANS INDEX 102-600 AND 102-603 IN THE WESTBOUND DIRECTION AS NECESSARY.
2. PROVIDE TRAFFIC CONTROL WITH A ONE-LANE, TWO-WAY FLAGGER OPERATION.
3. MILL AND RESURFACE TRAVEL LANE IN THE SOUTHBOUND DIRECTION ON SW 22ND AVENUE.



PHASE IV - SW 22ND AVENUE

PHASE IV

THE OBJECTIVE OF THIS PHASE IS PERFORM MILLING AND RESURFACING FOR THE THROUGH LANE IN THE NORTHBOUND DIRECTION ON SW 22ND AVENUE.

1. PLACE SIGNS, BARRICADES, AND OTHER DEVICES IN ACCORDANCE WITH STANDARD PLANS INDEX 102-600 AND 102-603 IN THE WESTBOUND DIRECTION AS NECESSARY.
2. PROVIDE TRAFFIC CONTROL WITH A ONE-LANE, TWO-WAY FLAGGER OPERATION.
3. MILL AND RESURFACE TRAVEL LANE IN THE NORTHBOUND DIRECTION ON SW 22ND AVENUE AND INSTALL PAVEMENT MARKINGS.

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SW 22ND AVE
TEMPORARY TRAFFIC CONTROL PLAN

SHEET: 133
OF: 177
PROJECT NO. 444377-1

OLD GERMANTOWN ROAD

PARK ACCESS ROAD

WM/TO REMAIN
CITY OF DELRAY BEACH
2-4" PVC/TO REMAIN
AT&T
2" PLASTIC PSIG 60 GM/TO REMAIN
FPU GAS
WATER VALVE/TO REMAIN
CITY OF DELRAY BEACH
FIRE HYDRANT/TO REMAIN
CITY OF DELRAY BEACH
24" BURIED FIBER/TO REMAIN
AT&T
ELECTRIC POLE/TO REMAIN
FPL
13kV OE/TO REMAIN
FPL
1-4" PVC/TO REMAIN
AT&T
PULL BOX/TO REMAIN
COMCAST
WM/TO REMAIN
CITY OF DELRAY BEACH
BTV/TO REMAIN
COMCAST
ADJUST WATER VALVE
ELECTRIC POLE/TO REMAIN
FPL
OFOC/TO REMAIN
AT&T
SERVICE WATER LINE/TO REMAIN
CITY OF DELRAY BEACH
FM/TO REMAIN
CITY OF DELRAY BEACH
RECLAIMED WATER/TO REMAIN
CITY OF DELRAY BEACH
ELECTRIC POLE/TO REMAIN
FPL

BEGIN PROJECT
BEGIN MILLING AND RESURFACING
℄ SURVEY OLD GERMANTOWN ROAD
STA 10+21.16

R/W LINE
ADJUST SEWER MANHOLE
ELECTRIC POLE/TO REMAIN
FPL
REMOVE AND CAP EXIST
FIRE HYDRANT
INSTALL NEW FIRE HYDRANT PER CITY OF
DELRAY BEACH STANDARD DETAIL PW 6.0
STA 13+39.76, 39.00' RT
RECLAIMED WATER/TO REMAIN
CITY OF DELRAY BEACH
FM/TO REMAIN
CITY OF DELRAY BEACH
2" PLASTIC PSIG 60 GM/TO REMAIN
FPU GAS
6" OH FIBER/TO REMAIN
AT&T
24" OH FIBER/TO REMAIN
AT&T
OFOC/TO REMAIN
COMCAST

MATCH LINE STA 15+60.00

LEGEND

- 3" MILLING AND RESURFACING
- 6" CONCRETE SUP
- DETECTABLE WARNING SURFACE

0 10 40
Feet

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

PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

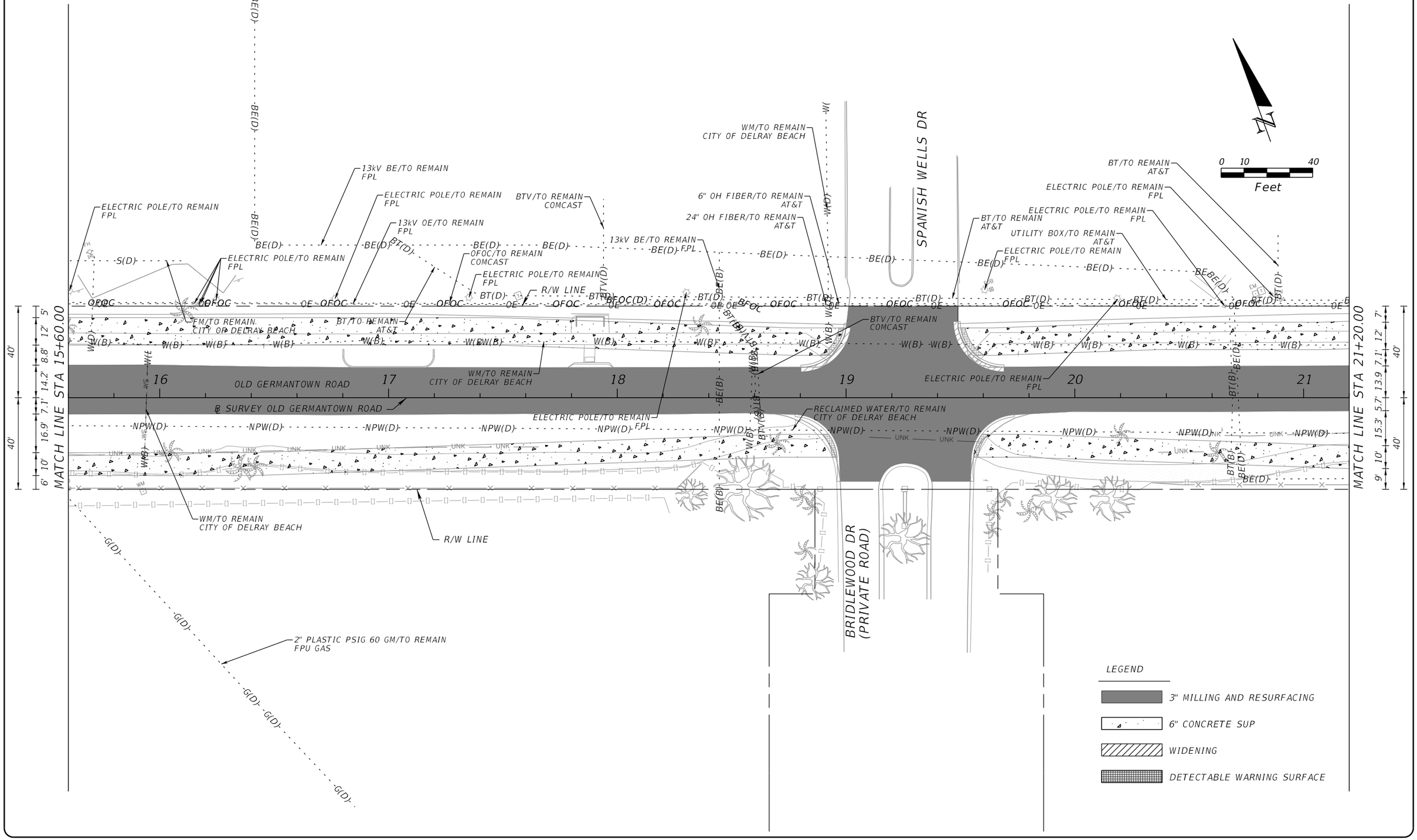
Seal:
MAJHARUL ALAM, PE
P.E# 61600

No.	Revisions	By	Date

CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

OLD GERMANTOWN ROAD
UTILITY ADJUSTMENTS

SHEET: 134
OF: 177
PROJECT NO. 444377-1



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PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

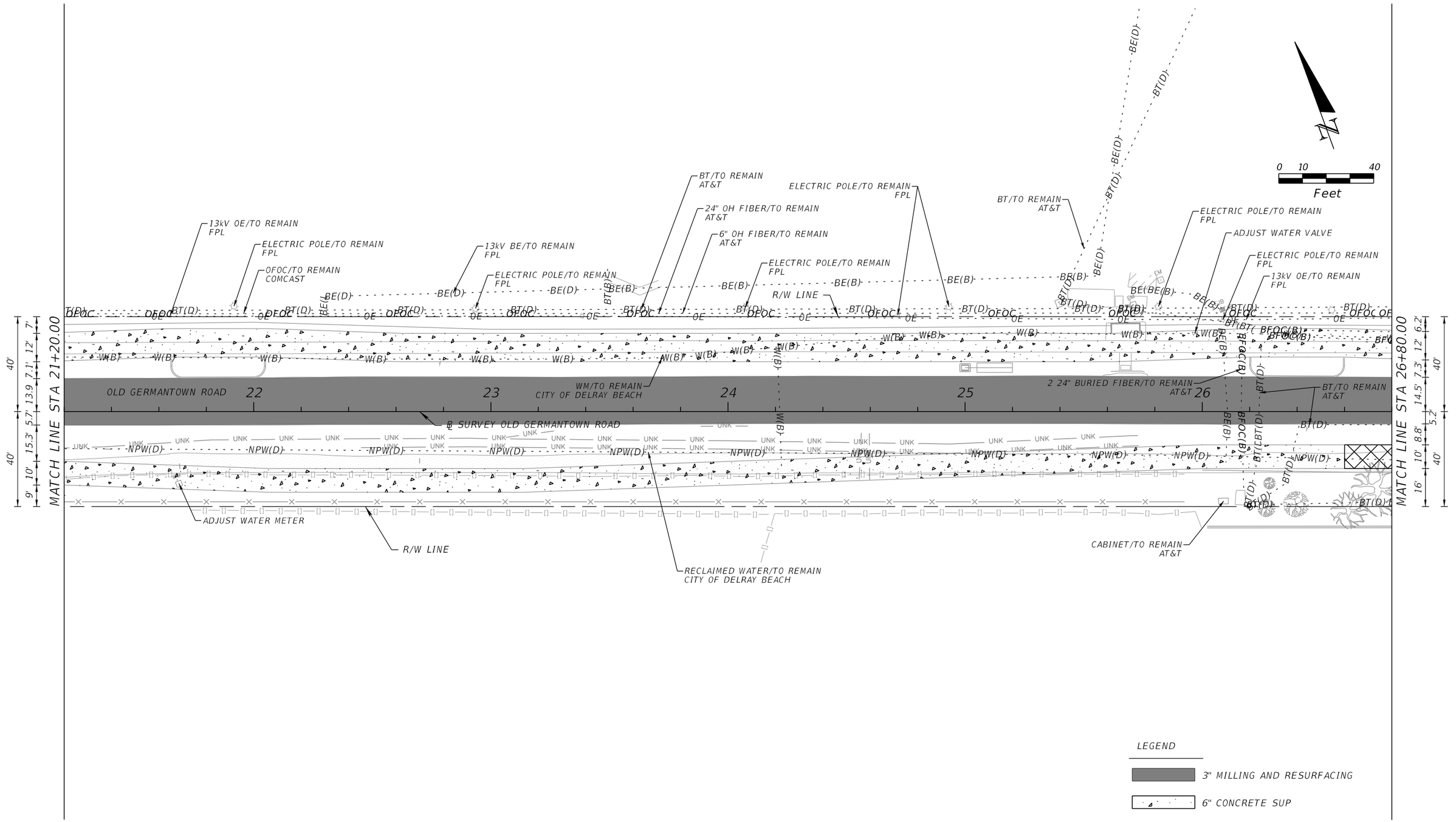
Seal:
MAJHARUL ALAM, PE
P.E# 61600

No.	Revisions	By	Date

CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

OLD GERMANTOWN ROAD
UTILITY ADJUSTMENTS

SHEET: 135
OF: 177
PROJECT NO. 444377-1



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PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:
MAJHARUL ALAM, PE
P.E# 61600

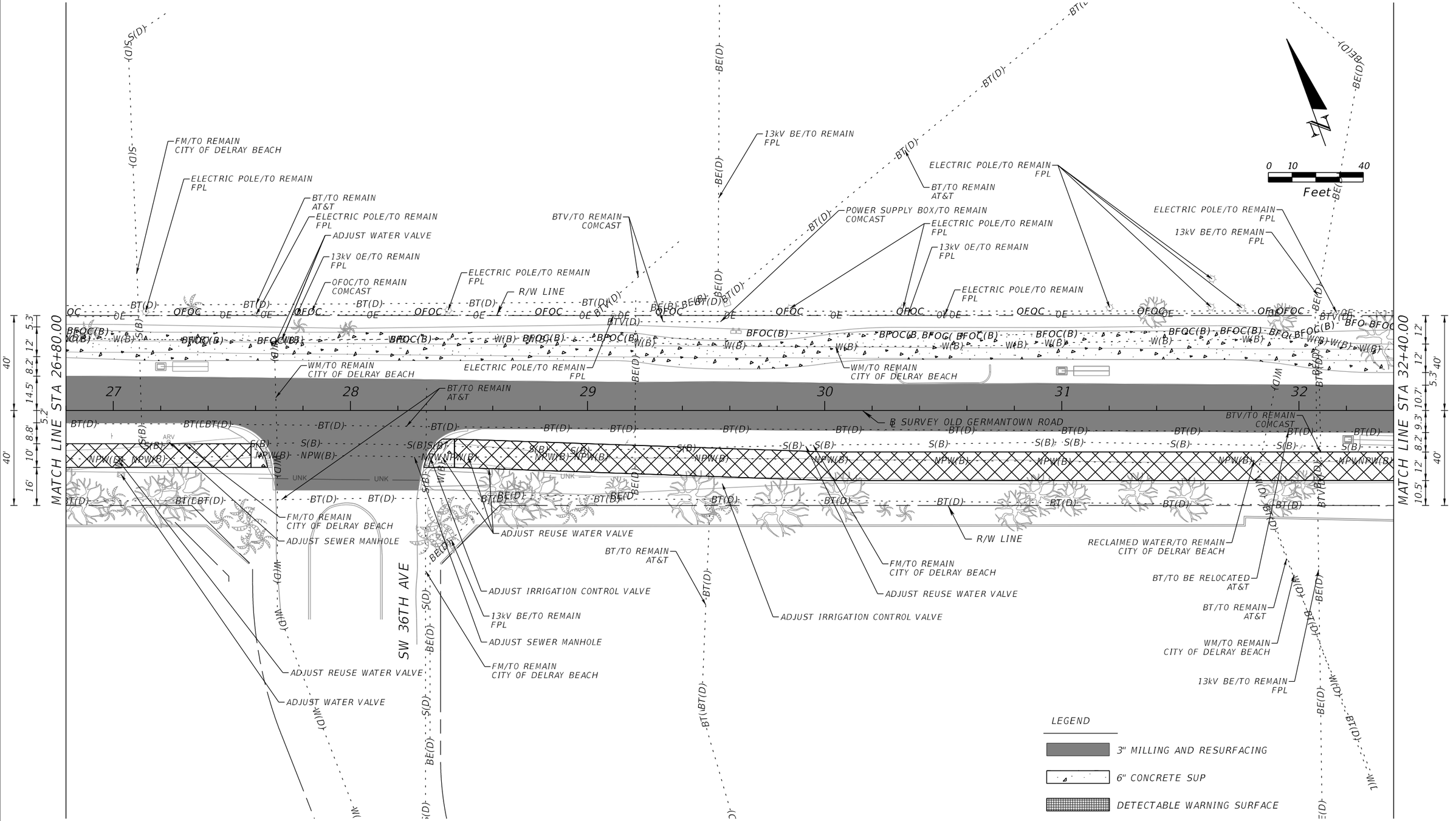
No.	Revisions	By	Date

CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

OLD GERMANTOWN ROAD
UTILITY ADJUSTMENTS

SHEET: 136
OF: 177
PROJECT NO. 444377-1

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PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:
MAJHARUL ALAM, PE
P.E# 61600

No.	Revisions	By	Date

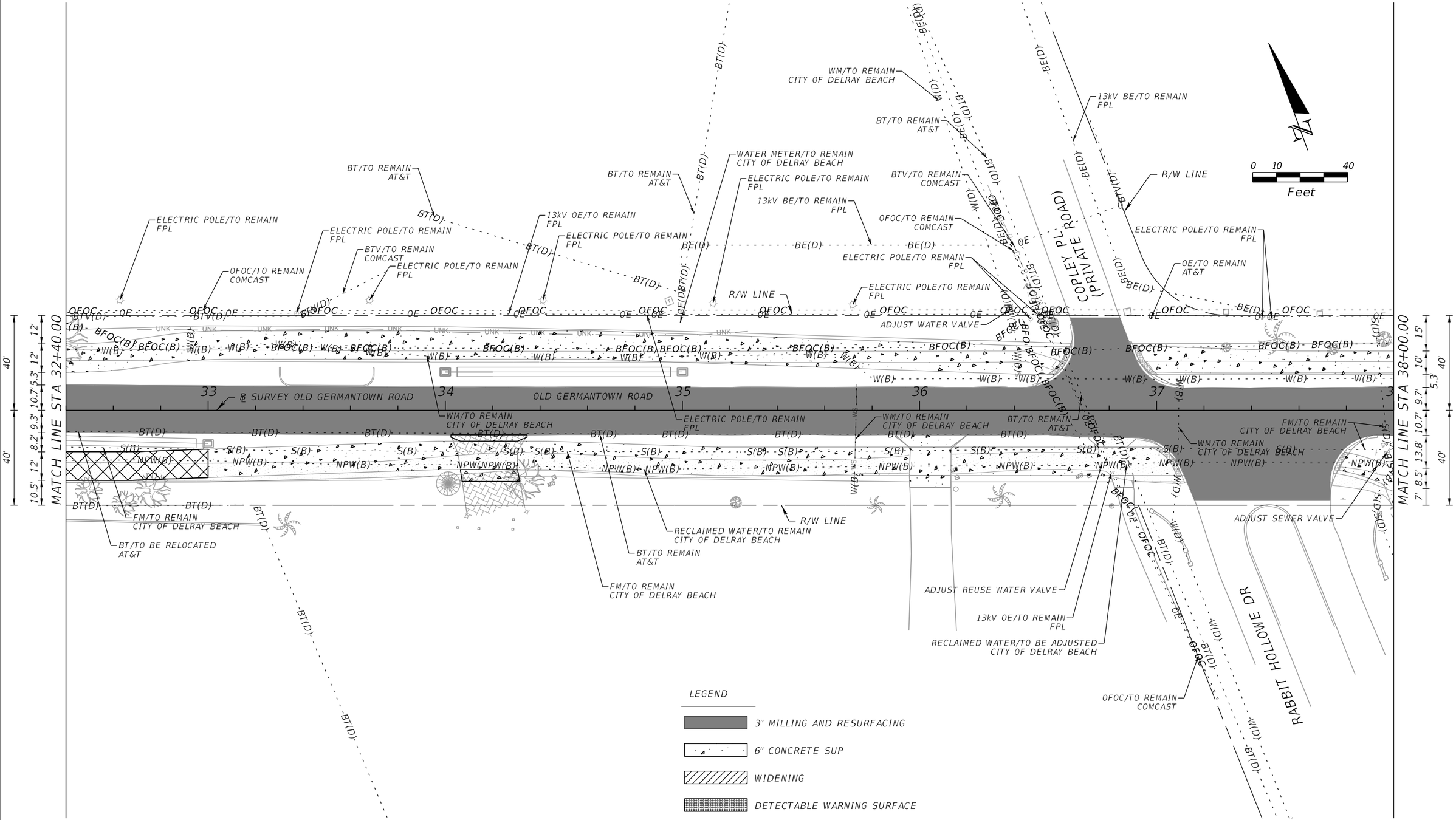
CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

OLD GERMANTOWN ROAD

UTILITY ADJUSTMENTS

SHEET: 137
OF: 177
PROJECT NO. 444377-1

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PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

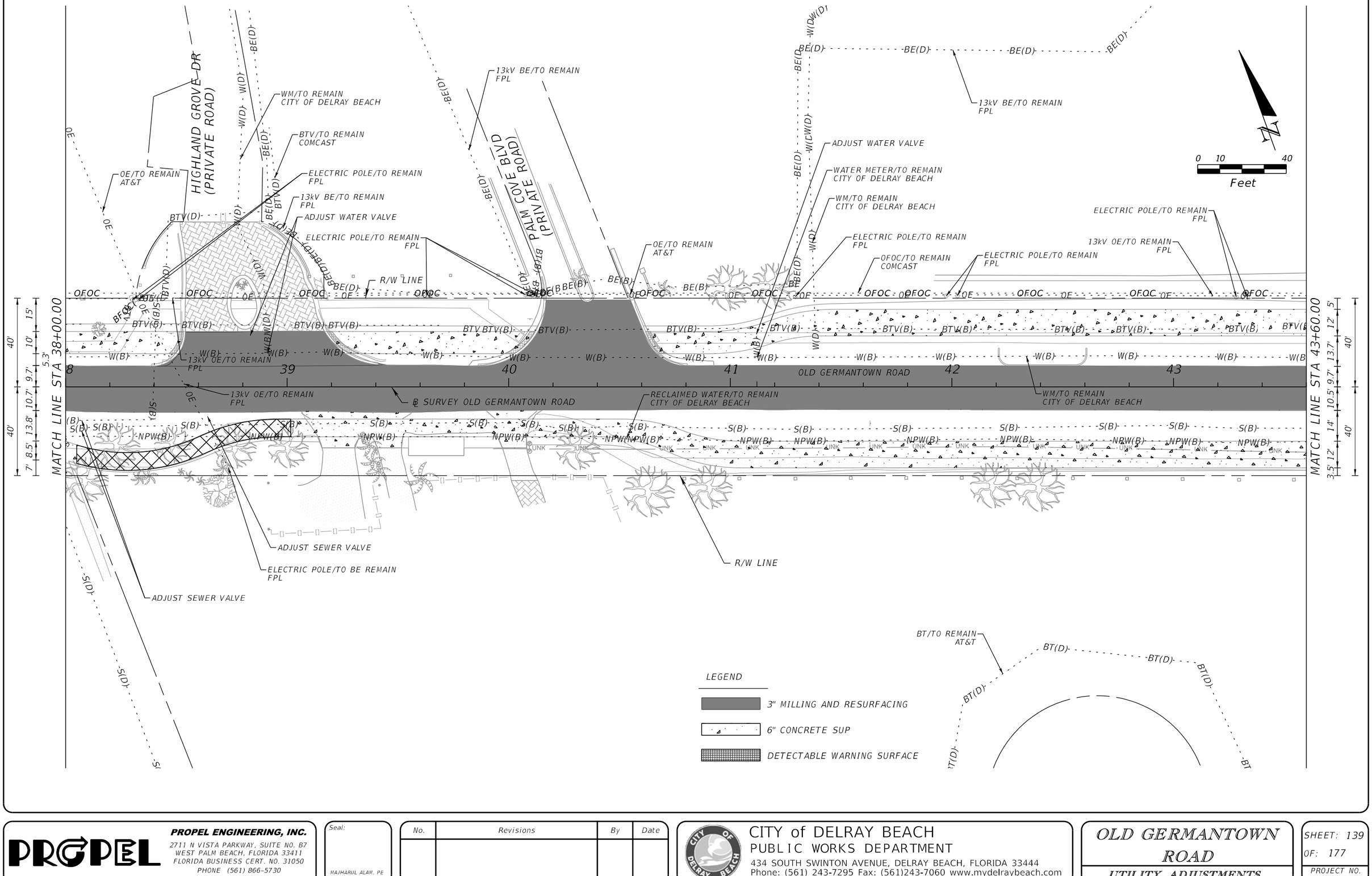
Seal:
MAJHARUL ALAM, PE
P.E# 61600

No.	Revisions	By	Date

CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

OLD GERMANTOWN ROAD
UTILITY ADJUSTMENTS

SHEET: 138
OF: 177
PROJECT NO. 444377-1



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PROPEL ENGINEERING, INC.
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FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:
MAJHARUL ALAM, PE
P.E# 61600

No.	Revisions	By	Date

CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

OLD GERMANTOWN ROAD
UTILITY ADJUSTMENTS

SHEET: 139
OF: 177
PROJECT NO. 444377-1

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MATCH LINE STA 43+60.00

MATCH LINE STA 49+20.00

44 45 46 47 48 49

13kV BE/TO REMAIN FPL

REMOVE AND CAP EXIST FIRE HYDRANT AND PIPE

INSTALL NEW FIRE HYDRANT PER CITY OF DELRAY BEACH STANDARD DETAIL PW 6.0 STA 44+95.75, 19.00' LT

OE/TO REMAIN AT&T

OFOC/TO REMAIN COMCAST

ELECTRIC POLE/TO REMAIN FPL

ADJUST WATER VALVE

ELECTRIC POLE/TO REMAIN FPL

13kV OE/TO REMAIN FPL

R/W LINE

ELECTRIC POLE/TO REMAIN FPL

WM/TO REMAIN CITY OF DELRAY BEACH

OLD GERMANTOWN ROAD

℄ SURVEY OLD GERMANTOWN ROAD

R/W LINE

ADJUST SEWER MANHOLE

RECLAIMED WATER/TO REMAIN CITY OF DELRAY BEACH

ADJUST WATER MANHOLE

ADJUST REUSE WATER VALVE

RECLAIMED WATER/TO REMAIN CITY OF DELRAY BEACH

BT/TO REMAIN AT&T

VIA VERONA

13kV OE/TO REMAIN FPL

ADJUST REUSE WATER VALVE

ELECTRIC POLE /TO REMAIN FPL

RECLAIMED WATER/TO REMAIN CITY OF DELRAY BEACH

WM/TO REMAIN CITY OF DELRAY BEACH

OFOC/TO REMAIN COMCAST

ADJUST REUSE WATER VALVE

0 10 40

Feet

LEGEND

3" MILLING AND RESURFACING

6" CONCRETE SUP

DETECTABLE WARNING SURFACE

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2711 N VISTA PARKWAY, SUITE NO. B7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:
MAJHARUL ALAM, PE
P.E# 61600

No.	Revisions	By	Date

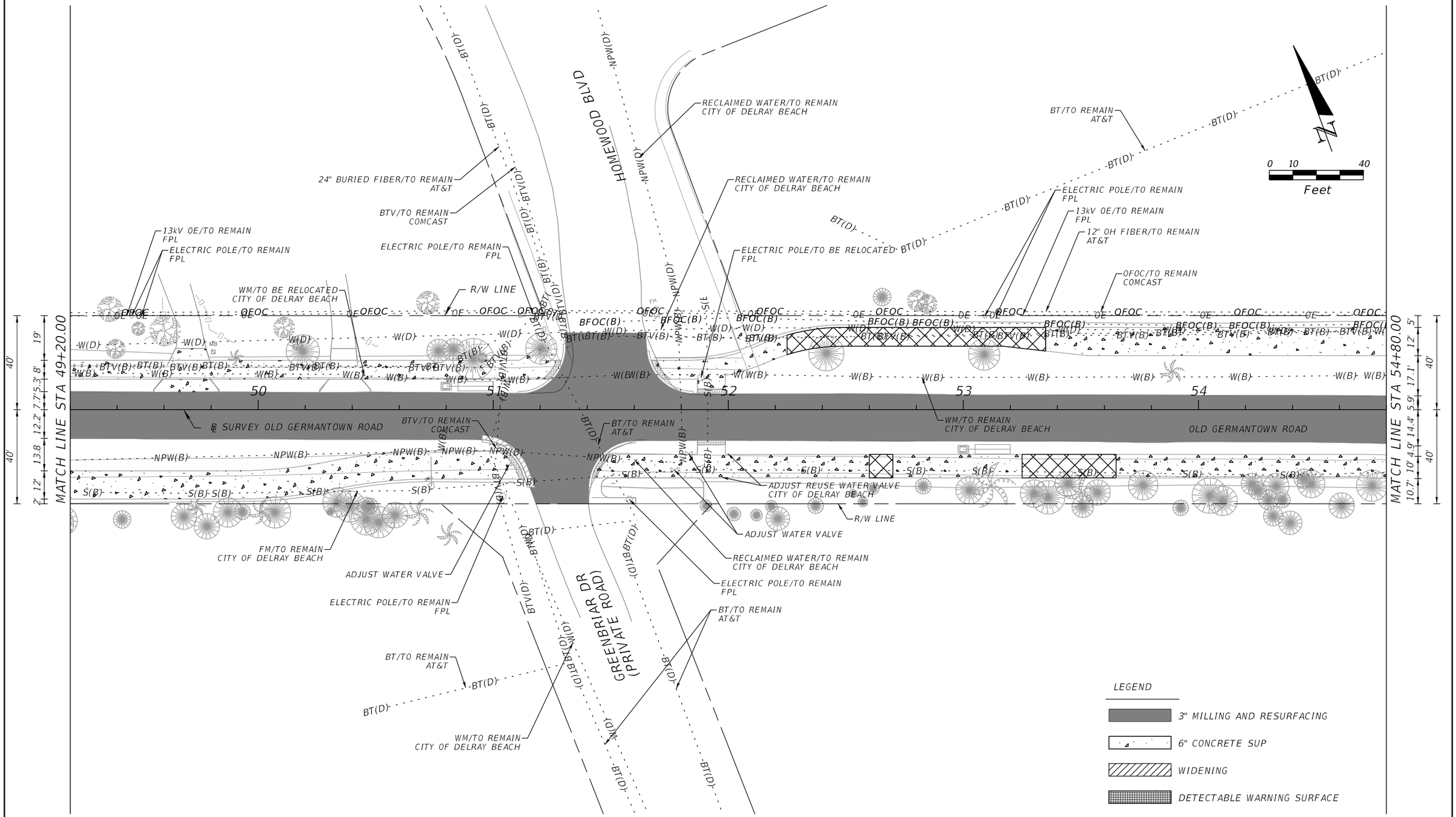
CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

OLD GERMANTOWN ROAD

UTILITY ADJUSTMENTS

SHEET: 140
OF: 177
PROJECT NO. 444377-1

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PROPEL

PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:

MAJHARUL ALAM, PE
P.E# 61600

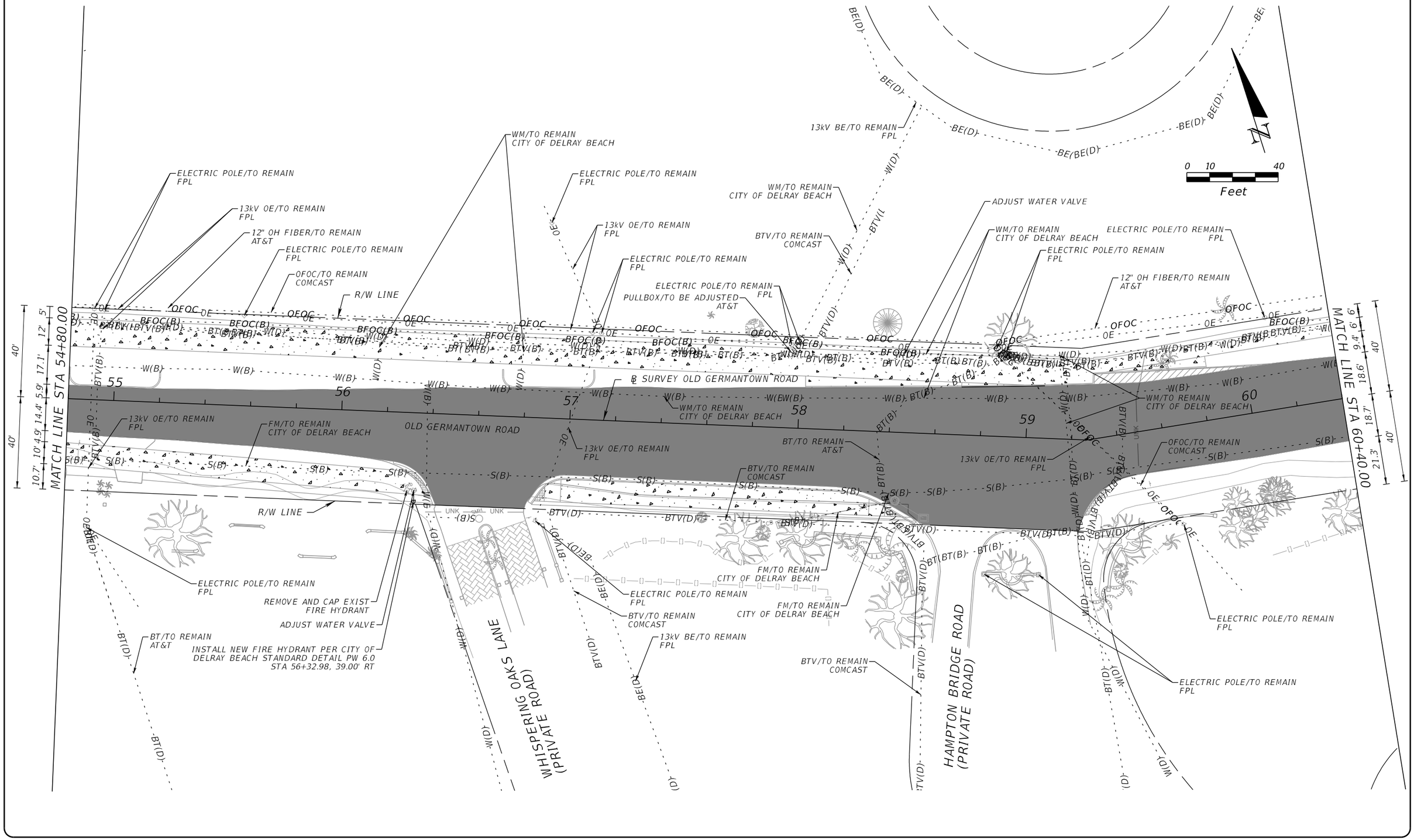
No.	Revisions	By	Date

CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

OLD GERMANTOWN ROAD

UTILITY ADJUSTMENTS

SHEET: 141
OF: 177
PROJECT NO. 444377-1



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PROPEL ENGINEERING, INC.
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WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:
MAJHARUL ALAM, PE
P.E# 61600

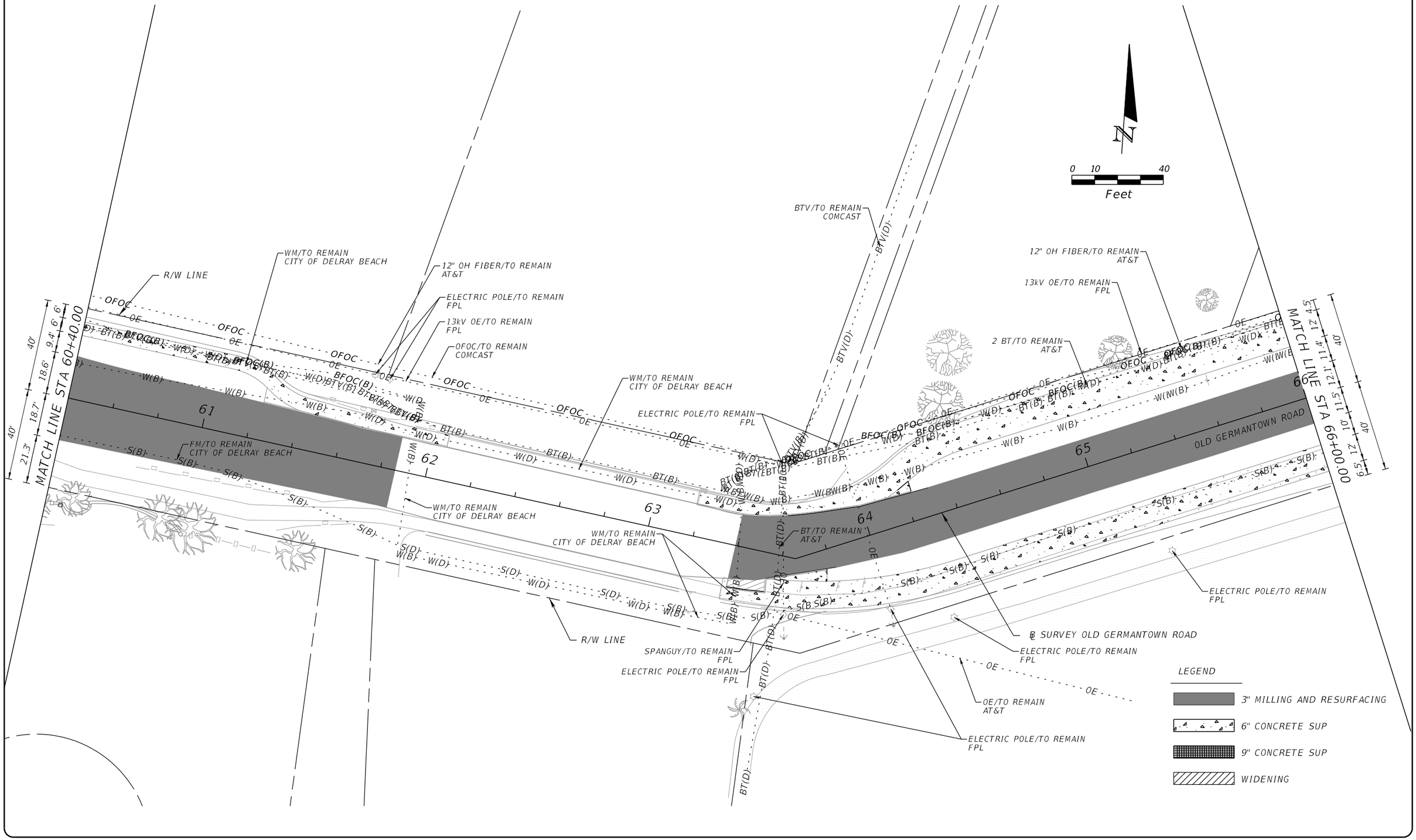
No.	Revisions	By	Date

CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

OLD GERMANTOWN ROAD
UTILITY ADJUSTMENTS

SHEET: 142
OF: 177
PROJECT NO. 444377-1

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PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

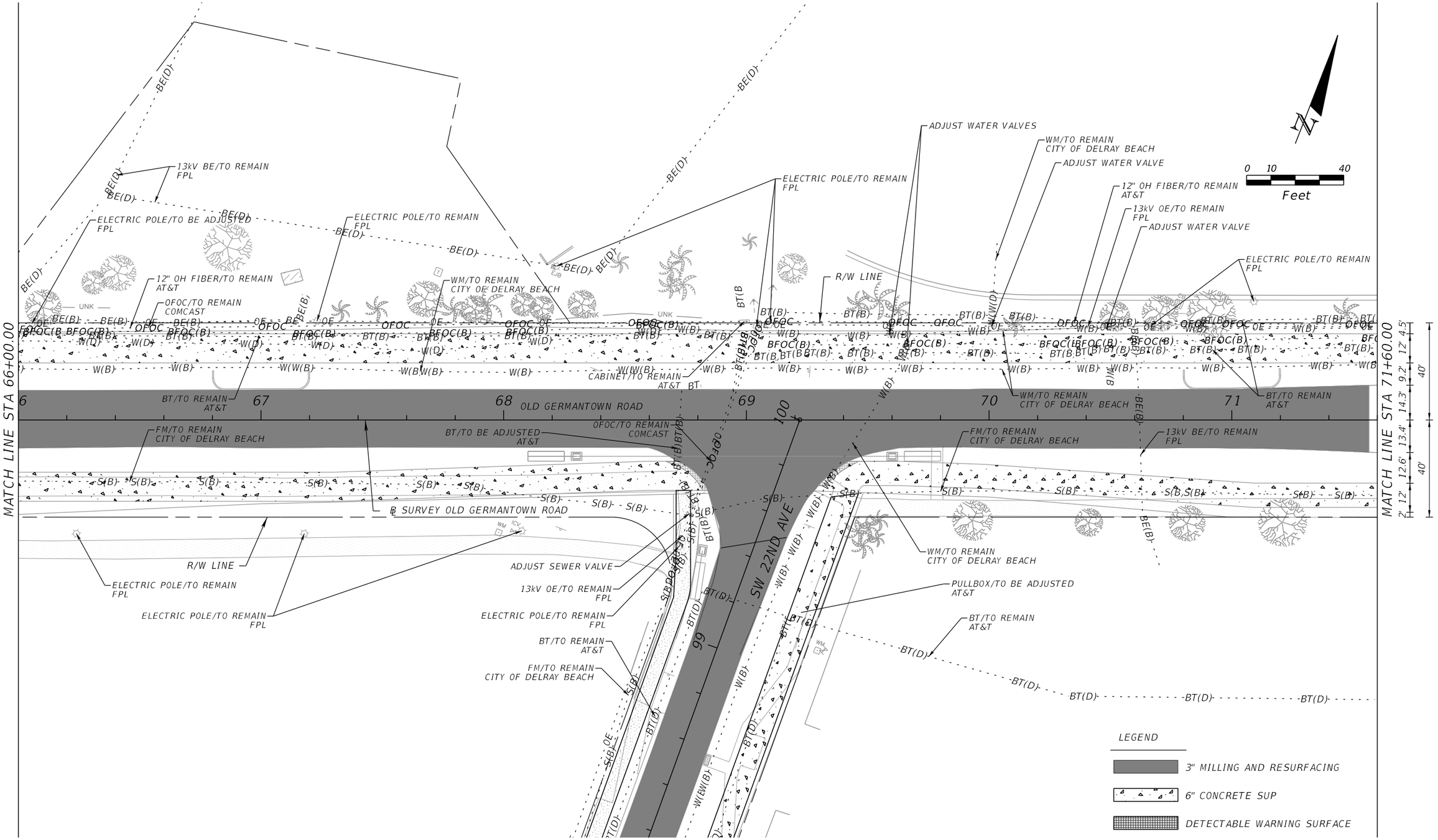
Seal:
MAJHARUL ALAM, PE
P.E# 61600

No.	Revisions	By	Date

CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

OLD GERMANTOWN ROAD
UTILITY ADJUSTMENTS

SHEET: 143
OF: 177
PROJECT NO. 444377-1



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PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:
MAJHARUL ALAM, PE
P.E# 61600

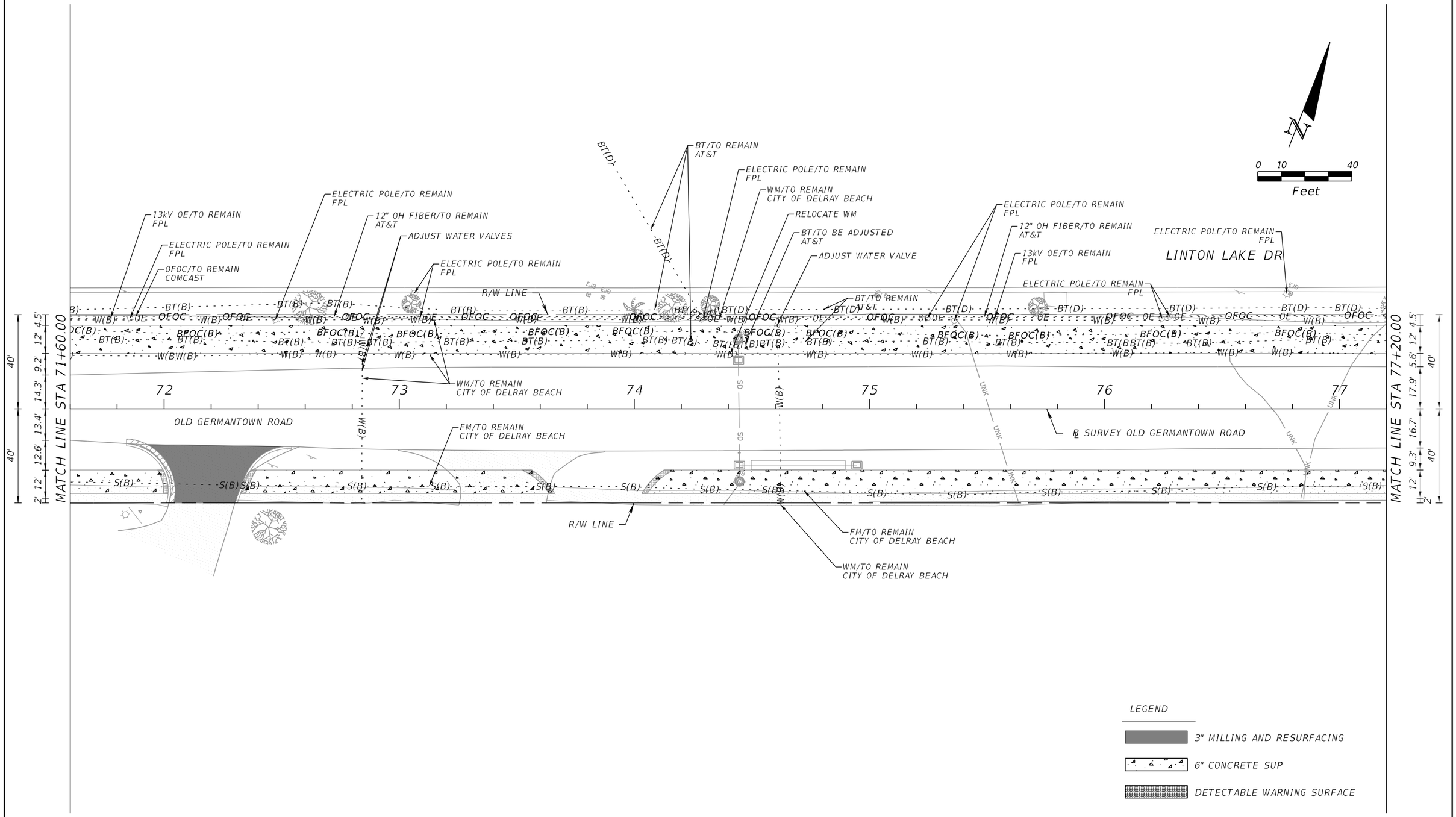
No.	Revisions	By	Date

CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

OLD GERMANTOWN ROAD
UTILITY ADJUSTMENTS

SHEET: 144
OF: 177
PROJECT NO. 444377-1

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PROPEL

PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:

MAJHARUL ALAM, PE
P.E# 61600

No.	Revisions	By	Date

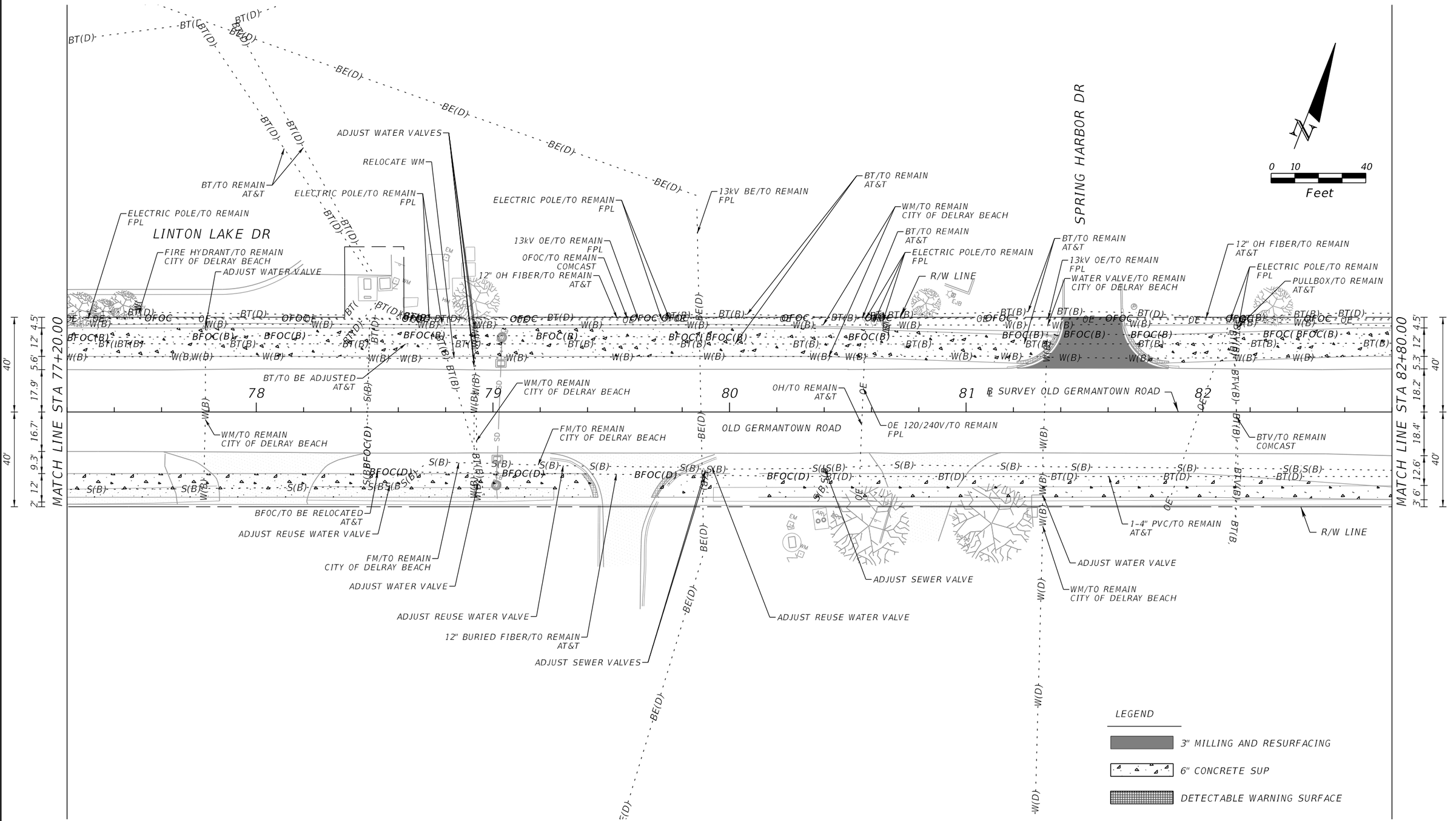
CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

OLD GERMANTOWN ROAD

UTILITY ADJUSTMENTS

SHEET: 145
OF: 177
PROJECT NO. 444377-1

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PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:
MAJHARUL ALAM, PE
P.E# 61600

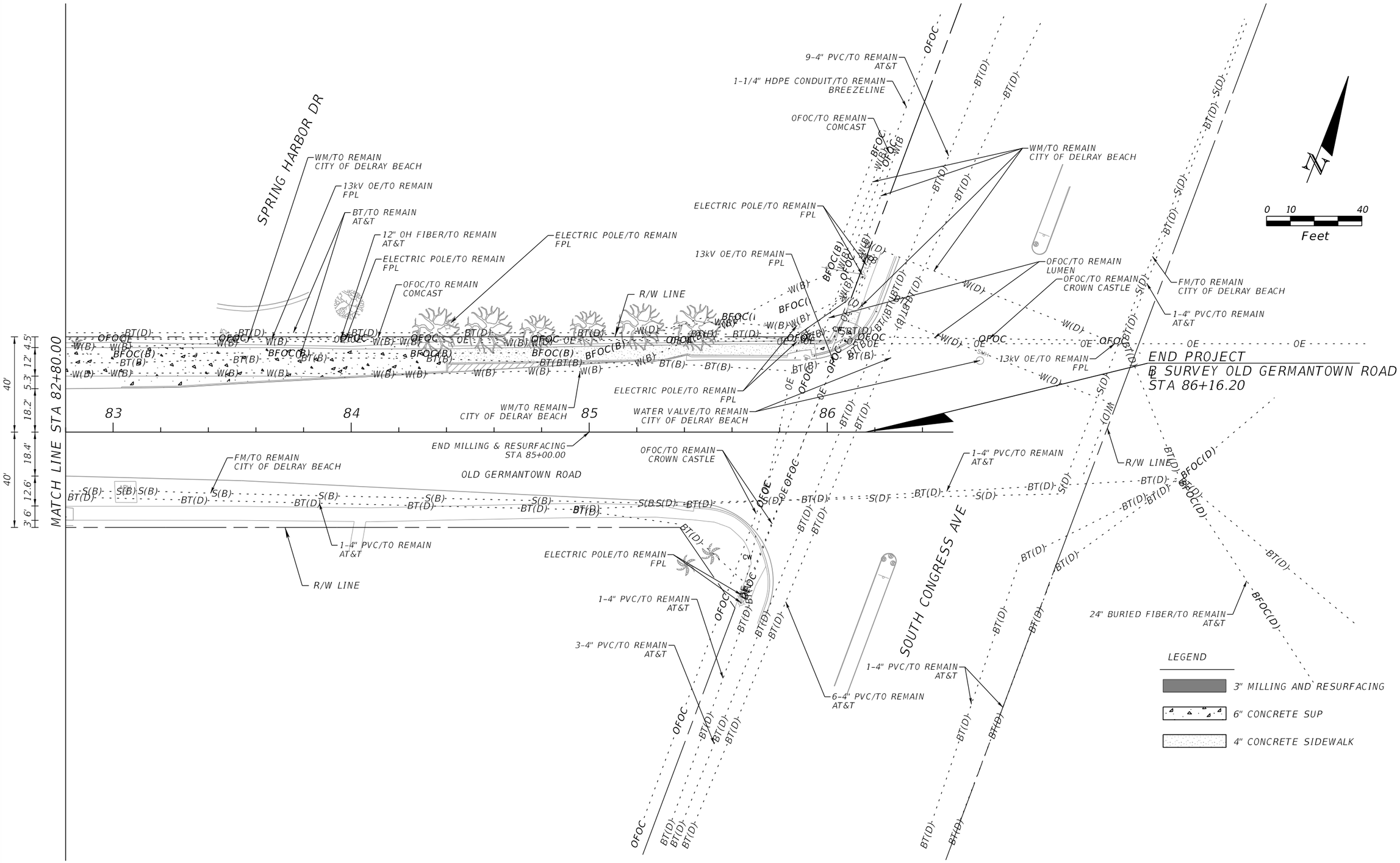
No.	Revisions	By	Date

CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

OLD GERMANTOWN ROAD

UTILITY ADJUSTMENTS

SHEET: 146
OF: 177
PROJECT NO. 444377-1



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PROPEL ENGINEERING, INC.
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FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:

MAJHARUL ALAM, PE
P.E# 61600

No.	Revisions	By	Date

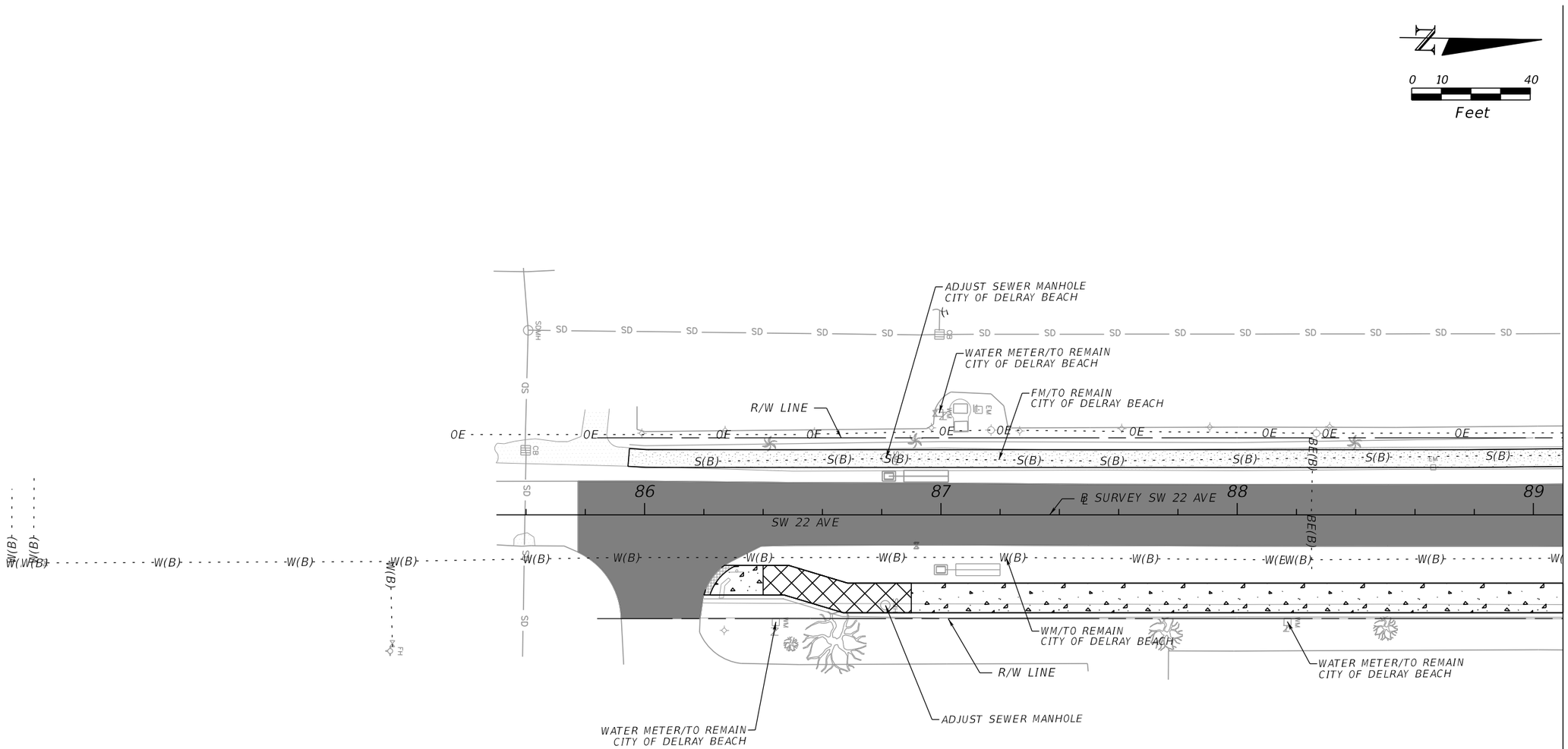
CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

OLD GERMANTOWN ROAD

UTILITY ADJUSTMENTS

SHEET: 147
OF: 177
PROJECT NO. 444377-1

MATCH LINE STA 85+50.00 Ext. -200.00



LEGEND

- 3" MILLING AND RESURFACING
- 4" CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE

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PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
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FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:
MAJHARUL ALAM, PE
P.E# 61600

No.	Revisions	By	Date

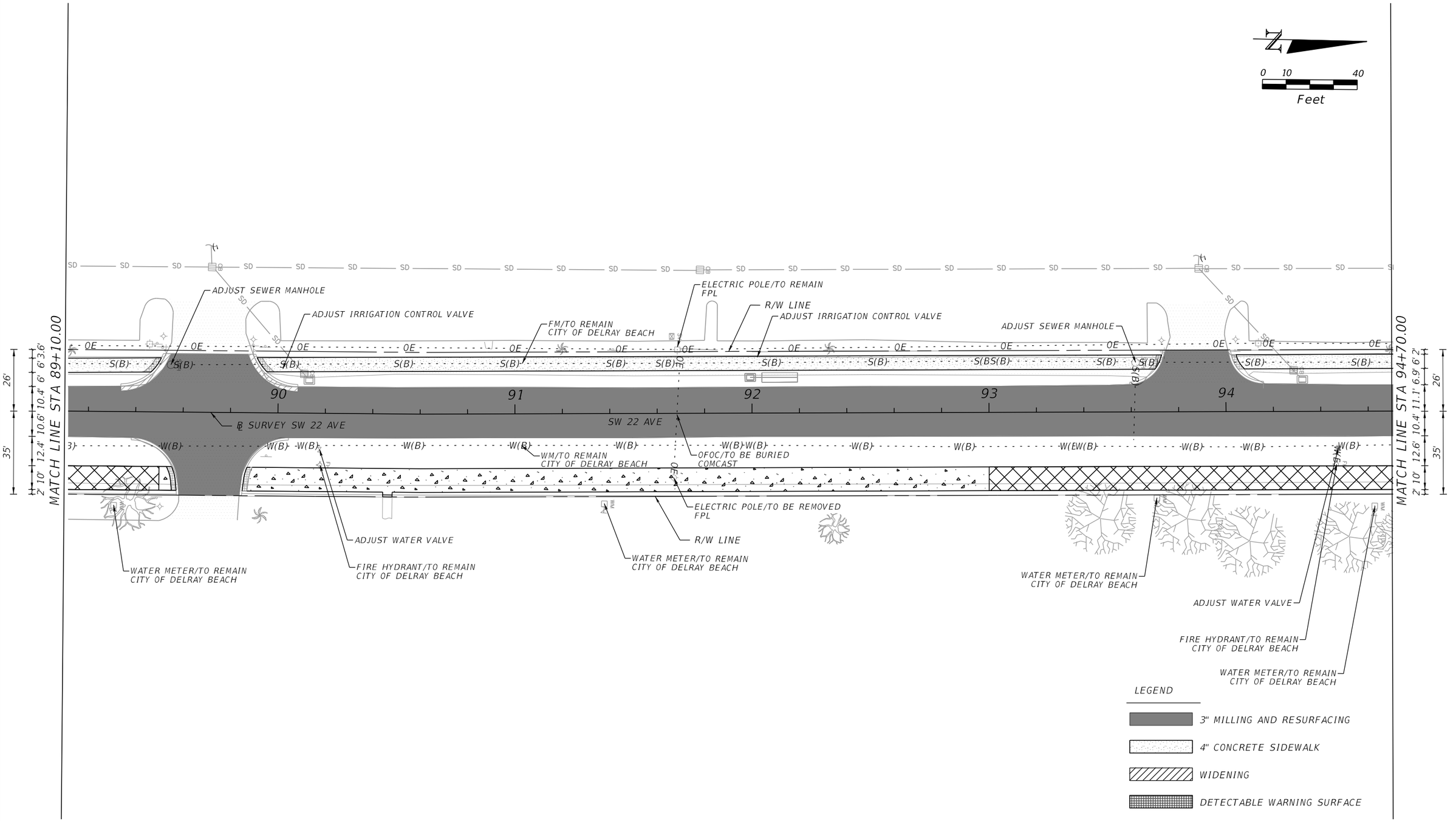
CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

SW 22ND AVE

UTILITY ADJUSTMENTS

SHEET: 148
OF: 177
PROJECT NO. 444377-1

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PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:
MAJHARUL ALAM, PE
P.E# 61600

No.	Revisions	By	Date

CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
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Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

SW 22ND AVE

UTILITY ADJUSTMENTS

SHEET: 149
OF: 177
PROJECT NO. 444377-1

N

0 10 40
Feet

MATCH LINE STA 94+70.00

26'
35'
2' 10' 12.6' 10.4' 11.1' 6.9' 6.2'

SW 22ND AVE

℄ SURVEY SW 22 AVE

OLD GERMANTOWN ROAD

95 96 97 98 99 100

68 69

FM/TO REMAIN
CITY OF DELRAY BEACH

R/W LINE

ELECTRIC POLE/TO REMAIN
FPL

ADJUST SEWER MANHOLE

ADJUST WATER VALVE
CITY OF DELRAY BEACH

BT/TO BE ADJUSTED
AT&T

BT/TO REMAIN
AT&T

R/W LINE

WM/TO REMAIN
CITY OF DELRAY BEACH

WATER METER/TO REMAIN
CITY OF DELRAY BEACH

LEGEND

3" MILLING AND RESURFACING

4" CONCRETE SIDEWALK

DETECTABLE WARNING SURFACE

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

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2711 N VISTA PARKWAY, SUITE NO. B7
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FLORIDA BUSINESS CERT. NO. 31050
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Seal:

MAJHARUL ALAM, PE
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No.	Revisions	By	Date

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434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

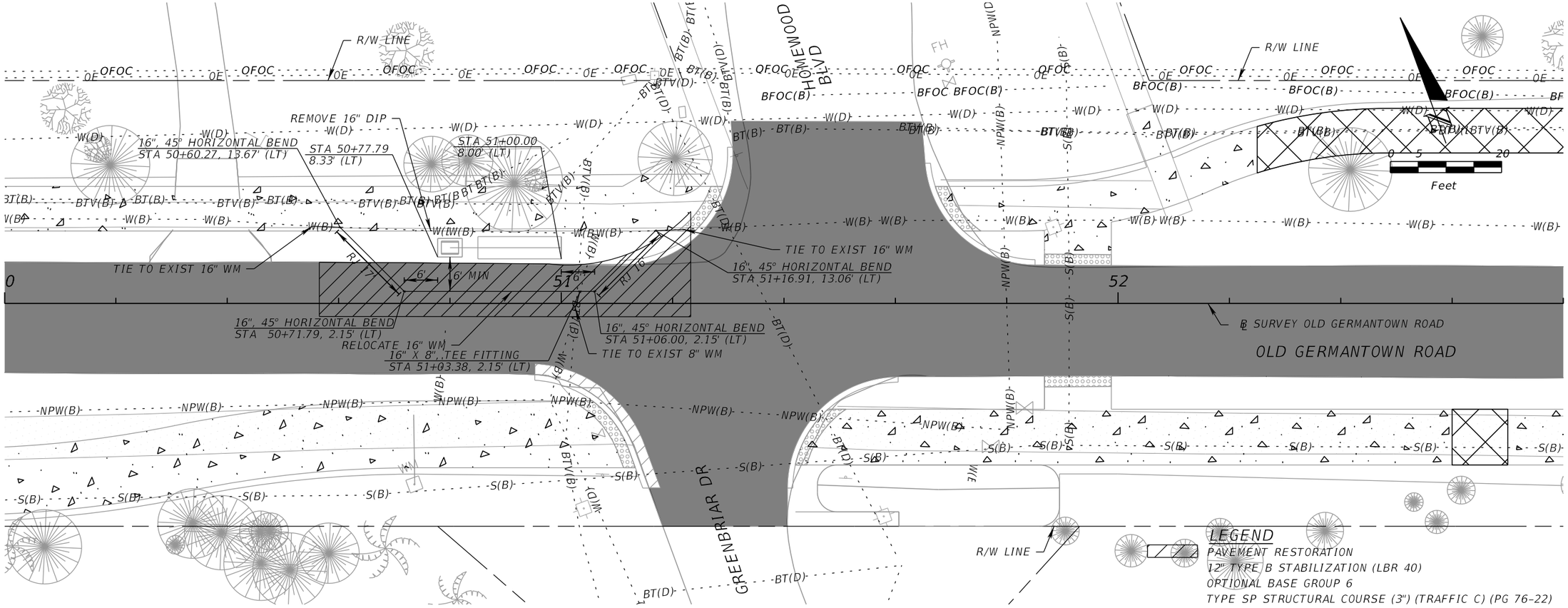
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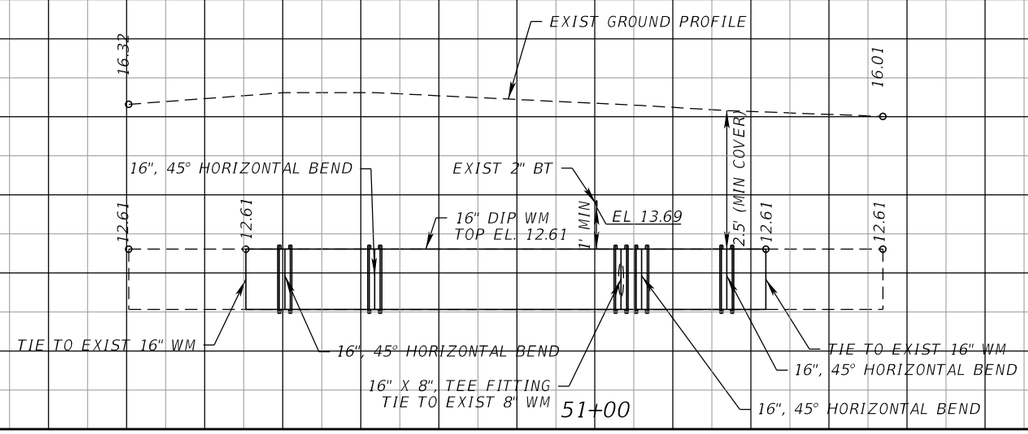
UTILITY ADJUSTMENTS

SHEET: 150
OF: 177

PROJECT NO.
444377-1

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SCALE:
1" = 20' HORIZONTAL
1" = 4' VERTICAL

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PROPEL

PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:
MAJHARUL ALAM, PE
P.E# 61600

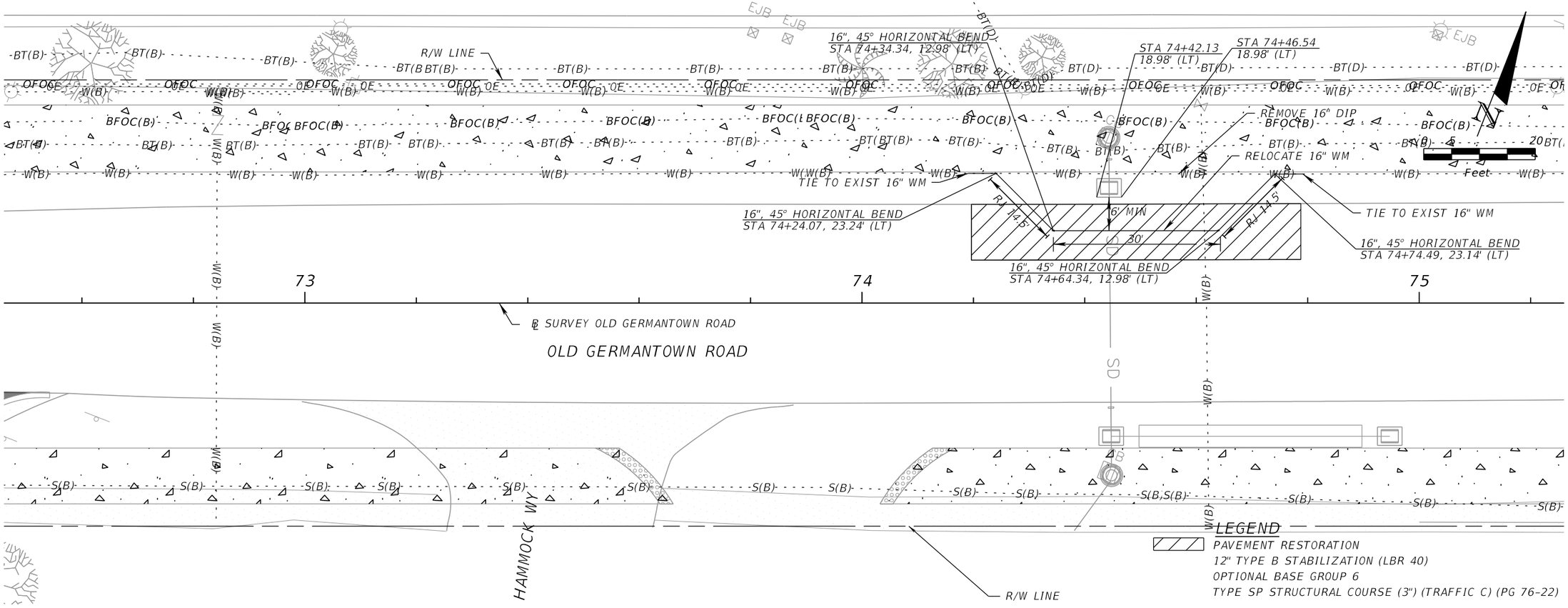
No.	Revisions	By	Date

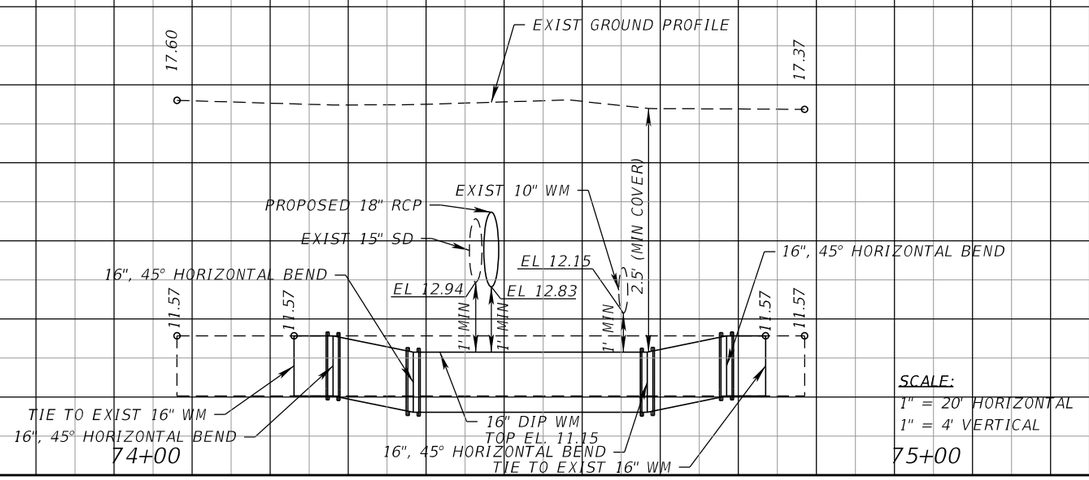
CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
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OLD GERMANTOWN ROAD
WATER MAIN DEFLECTION

SHEET: 151
OF: 177
PROJECT NO. 444377-1

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FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:

xx
P.E# x

No.	Revisions	By	Date

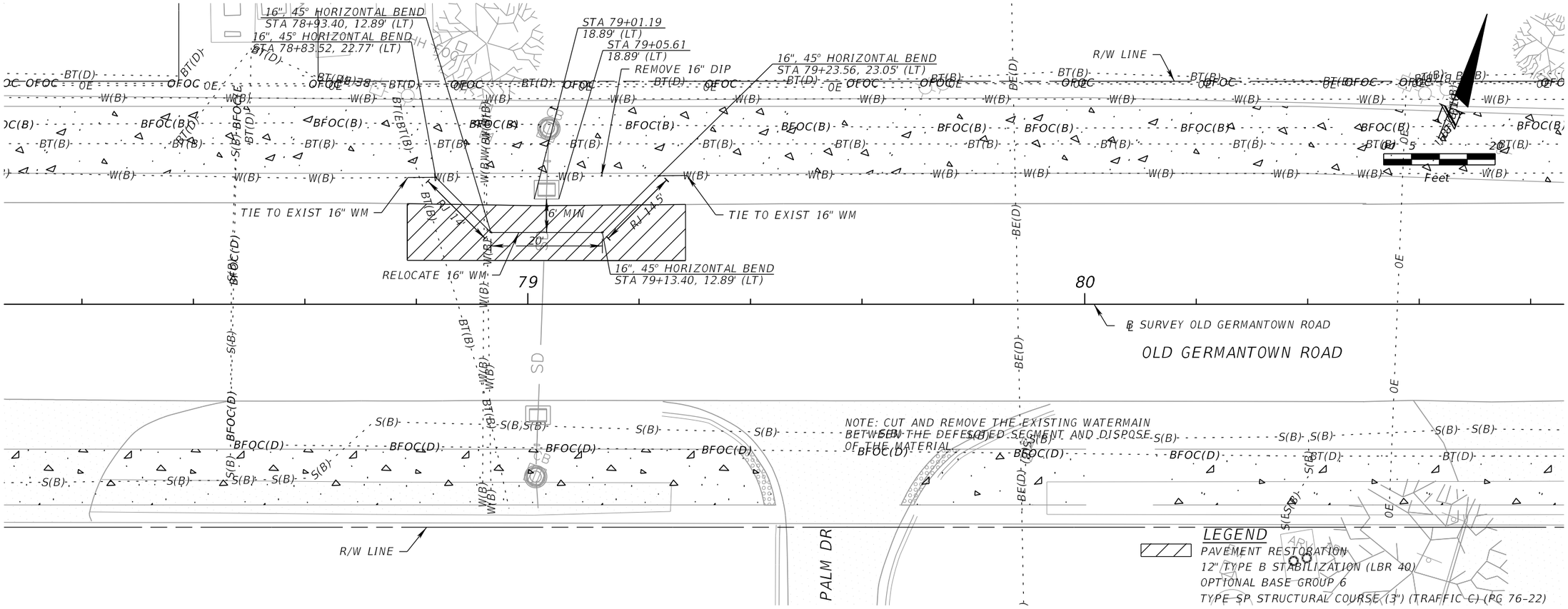
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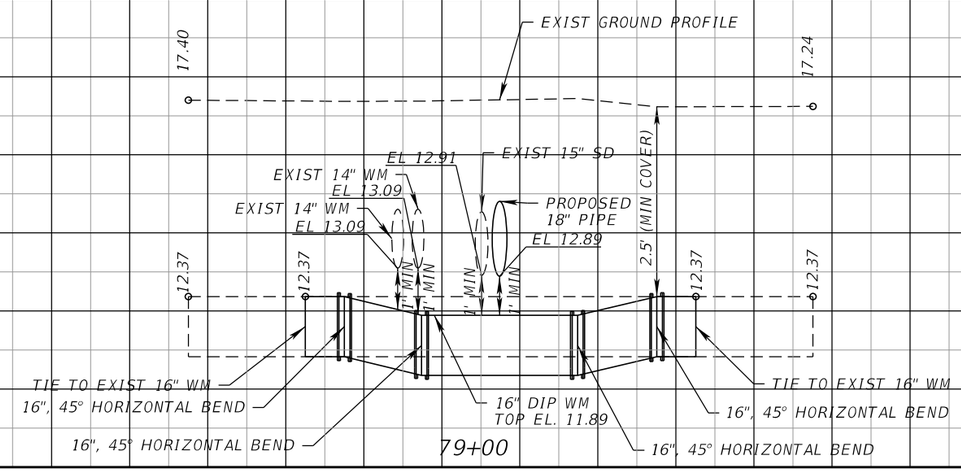
OLD GERMANTOWN ROAD
WATER MAIN DEFLECTION

SHEET: 152
OF: 177
PROJECT NO. 444377-1

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SCALE:
1" = 20' HORIZONTAL
1" = 4' VERTICAL

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PROPEL ENGINEERING, INC.
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FLORIDA BUSINESS CERT. NO. 31050
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Seal:

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CITY of DELRAY BEACH
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OLD GERMANTOWN ROAD
WATER MAIN DEFLECTION

SHEET: 153
OF: 177
PROJECT NO. 444377-1

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Tree Disposition Chart

TREE NO.	BOTANICAL NAME	COMMON NAME	DBH (IN.) FOR TREES /CTH (FT.) FOR PLAMS	HEIGHT (FT.) (APPROX.)	CANOPY SPREAD (FT.) (APPROX.)	LOCATION		Condition	Disposition	Notes
						STATION	OFFSET			
1	Quercus virginiana	Live Oak	16	30	32	945973.35	766310.417	Good	Remain	Limb Damage – Minor|Slight Lean
2	Quercus virginiana	Live Oak	11	26	24	945979.133	766272.691	Good	Remain	Slight Lean|Sprouting
3	Quercus virginiana	Live Oak	12	26	24	945991.038	766252.525	Good	Remain	Circling Roots|Partially Uprooted
4	Sabal palmetto	Cabbage Palm	10	16	12	945985.412	766231.181	Good	Remain	Co-Dominant Leaders|Included Bark|Limb Damage – Minor
5	Sabal palmetto	Cabbage Palm	9	16	12	945982.837	766226.39	Good	Remain	Leaning|Trunk Damage
6	Sabal palmetto	Cabbage Palm	8	26	12	945990.556	766223.797	Good	Remain	
7	Sabal palmetto	Cabbage Palm	12	26	12	945984.1	766217.172	Good	Remain	Adjust Power Lines|Co-Dominant Leaders|Lopsided
8	Sabal palmetto	Cabbage Palm	12	22	12	945986.793	766209.721	Good	Remain	Adjust Power Lines|Co-Dominant Leaders|Lopsided
9	Sabal palmetto	Cabbage Palm	11	22	12	945996.015	766205.857	Fair	Remain	Bent Trunk|Tapered Trunk
10	Sabal palmetto	Cabbage Palm	11	18	12	945996.272	766213.414	Fair	Remain	Bent Trunk
11	Not Used	Not Used								Outside of project limitis
12	Not Used	Not Used								Outside of project limitis
13	Not Used	Not Used								Outside of project limitis
14	Not Used	Not Used								Outside of project limitis
15	Not Used	Not Used								Outside of project limitis
16	Not Used	Not Used								Outside of project limitis
17	Not Used	Not Used								Outside of project limitis
18	Not Used	Not Used								Outside of project limitis
19	Not Used	Not Used								Outside of project limitis
20	Not Used	Not Used								Outside of project limitis
21	Not Used	Not Used								Outside of project limitis
22	Coccoloba diversifolia	Pigeon Plum	5	14	14	946069.114	766216.927	Fair	Remain	Bent Leader|Lopsided|Trunk Damage – Minor
23	Sabal palmetto	Cabbage Palm	12	18	12	946074.904	766221.628	Good	Remain	
24	Sabal palmetto	Cabbage Palm	10	18	12	946082.289	766223.134	Good	Remain	
25	Coccoloba diversifolia	Pigeon Plum	4	14	16	946088.257	766222.111	Good	Remain	Impacting shared use path
26	Sabal palmetto	Cabbage Palm	12	20	14	946095.061	766222.917	Good	Remain	
27	Sabal palmetto	Cabbage Palm	12	16	17	946093.863	766214.099	Good	Remain	
28	Coccoloba diversifolia	Pigeon Plum	6	24	20	946138.136	766222.235	Fair	Remain	Co-Dominant Leaders|Trunk Damage – Minor
29	Coccoloba diversifolia	Pigeon Plum	6	16	14	946161.375	766220.346	Fair	Remain	Co-Dominant Leaders|Hat Racked|Limb Damage – Minor
30	Coccoloba diversifolia	Pigeon Plum	6	20	16	946169.63	766214.505	Fair	Remain	Co-Dominant Leaders|Limb Damage – Minor
31	Ficus benghalensis	Banyan	100	30	48	946175.912	766228.362	Fair	Remain	Limb Damage – Minor|Lopsided|Trunk Damage – Minor
32	Sabal palmetto	Cabbage Palm	12	20	12	946189.301	766201.061	Good	RELOCATE	Impacting shared use path (Relocated in Typical B)
33	Sabal palmetto	Cabbage Palm	12	16	12	946196.42	766209.689	Good	Remain	
34	Sabal palmetto	Cabbage Palm	12	18	14	946207.713	766204.81	Good	Remain	
35	Sabal palmetto	Cabbage Palm	17	26	12	946385.632	766086.052	Good	RELOCATE	Impacting shared use path (Relocated in Typical B)
36	Sabal palmetto	Cabbage Palm	12	20	10	946508.374	766098.189	Fair	RELOCATE	Tapered Trunk|Yellow Fronds, Impacting shared use path (Relocated in Typical B)
37	Sabal palmetto	Cabbage Palm	13	20	12	946533.583	766032.123	Good	RELOCATE	Bent Trunk, Impacting shared use path (Relocated in Typical B)
38	Sabal palmetto	Cabbage Palm	10	20	12	946769.172	766001.435	Good	RELOCATE	Yellow Fronds, Impacting shared use path (Relocated in Typical B)
39	Sabal palmetto	Cabbage Palm	12	20	10	946782.554	765944.884	Good	RELOCATE	Impacting shared use path (Relocated in Typical B)
40	Quercus virginiana	Live Oak	22	46	40	946760.295	765924.703	Fair	Remain	Co-Dominant Leaders|Limb Damage – Minor, Prune
41	Sabal palmetto	Cabbage Palm	8	26	11	946925.581	765897.441	Fair	Remain	Bent Trunk|Trunk Damage
42	Quercus virginiana	Live Oak	18	42	36	946890.833	765881.932	Fair	Remain	Bent Leader|Co-Dominant Leaders|Limb Damage – Minor
43	Quercus virginiana	Live Oak	24	44	42	946915.204	765876.067	Fair	Remain	Bent Leader|Leaning – Minor|Limb Damage – Minor, Prune
44	Sabal palmetto	Cabbage Palm	12	22	12	946960.526	765882.072	Good	RELOCATE	Impacting shared use path (Relocated in Typical B)
45	Conocarpus erectus	Green Buttonwood	8	20	16	947493.404	765668.908	Poor	Remain	Apical Dieback|Bent Leader|Co-Dominant Leaders
46	Conocarpus erectus	Green Buttonwood	6	18	14	947502.057	765663.134	Poor	Remain	Apical Dieback|Bent Leader|Co-Dominant Leaders
47	Conocarpus erectus	Green Buttonwood	5	16	8	947492.397	765667.719	Very Poor	REMOVE	Apical Dieback|Limb Damage – Major|Mostly Defoliated, Impacting shared use path
48	Quercus virginiana	Live Oak	16	36	34	947523.155	765655.506	Fair	Remain	Bent Leader|Lopsided
49	Quercus virginiana	Live Oak	26	42	48	947534.783	765658.366	Fair	Remain	Co-Dominant Leaders|Lopsided, REFER TO ROOT TREATMENT DETAIL
50	Quercus virginiana	Live Oak	18	42	40	947548.066	765647.274	Fair	Remain	Co-Dominant Leaders|Included Bark, REFER TO ROOT TREATMENT DETAIL

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Seal:
CASTO MIGUEL JUNCAL
R.L.A.# LA6667184

No.	Revisions	By	Date

CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
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OLD GERMANTOWN ROAD
TREE DISPOSITION CHART

SHEET: 154
OF: 177
PROJECT NO. 444377-1

Tree Disposition Chart

TREE NO.	BOTANICAL NAME	COMMON NAME	DBH (IN.) FOR TREES /CTH (FT.) FOR PLAMS	HEIGHT (FT.) (APPROX.)	CANOPY SPREAD (FT.) (APPROX.)	LOCATION		Condition	Disposition	Notes
						STATION	OFFSET			
51	Sabal palmetto	Cabbage Palm	8	20	12	947555.118	765643.094	Good	Remain	
52	Sabal palmetto	Cabbage Palm	40	22	12	947560.666	765642.147	Good	Remain	
53	Sabal palmetto	Cabbage Palm	9	18	12	947563.746	765634.898	Fair	Remain	
54	Quercus virginiana	Live Oak	24	42	36	947579.389	765632.67	Fair	Remain	Co-Dominant Leaders|Included Bark|Limb Damage - Minor, ROOT PRUNE
55	Quercus virginiana	Live Oak	20	42	44	947587.776	765639.118	Fair	Remain	Co-Dominant Leaders|Leaning - Minor, REFER TO ROOT TREATMENT DETAIL
56	Sabal palmetto	Cabbage Palm	15	18	12	947575.573	765711.913	Good	RELOCATE	Impacting shared use path (Relocated in Typical B)
57	Quercus virginiana	Live Oak	34	42	34	948087.915	765518.713	Fair	Remain	Adjust Power Lines|Co-Dominant Leaders|Lopsided, ROOT PRUNE
58	Quercus virginiana	Live Oak	18	34	36	948049.622	765547.115	Fair	Remain	Adjust Power Lines|Co-Dominant Leaders|Lopsided, ROOT PRUNE
59	Quercus virginiana	Live Oak	17	38	40	947992.519	765566.617	Fair	Remain	Adjust Power Lines|Co-Dominant Leaders|Limb Damage - Minor, ROOT PRUNE
60	Quercus virginiana	Live Oak	18	40	36	947715.55	765595.318	Fair	Remain	Co-Dominant Leaders|Lopsided, REFER TO ROOT TREATMENT DETAIL
61	Quercus virginiana	Live Oak	24	42	40	947717.635	765583.571	Fair	Remain	Co-Dominant Leaders|Limb Damage - Minor, REFER TO ROOT TREATMENT DETAIL
62	Quercus virginiana	Live Oak	20	38	36	947728.792	765583.802	Fair	Remain	Bent Leader|Co-Dominant Leaders|Lopsided, REFER TO ROOT TREATMENT DETAIL
63	Sabal palmetto	Cabbage Palm	10	20	12	947736.786	765577.104	Good	Remain	Tapered Trunk
64	Sabal palmetto	Cabbage Palm	10	22	12	947743.967	765573.211	Good	Remain	Tapered Trunk
65	Quercus virginiana	Live Oak	22	40	44	947762.254	765580.435	Fair	Remain	Co-Dominant Leaders|Constricted Roots|Limb Damage - Minor, REFER TO ROOT TREATMENT DETAIL
66	Quercus virginiana	Live Oak	26	44	40	947791.343	765567.656	Good	Remain	Co-Dominant Leaders, REFER TO ROOT TREATMENT DETAIL
67	Sabal palmetto	Cabbage Palm	12	20	12	947796.998	765557.617	Fair	Remain	Bent Trunk|Tapered Trunk
68	Sabal palmetto	Cabbage Palm	10	24	12	947807.555	765560.153	Fair	Remain	Adjusted Power Lines|Bent Trunk
69	Quercus virginiana	Live Oak	26	44	40	947822.701	765551.628	Fair	Remain	Co-Dominant Leaders|Limb Damage - Minor|Slight Lean, REFER TO ROOT TREATMENT DETAIL
70	Quercus virginiana	Live Oak	22	40	40	947849.942	765545.434	Fair	Remain	Co-Dominant Leaders|Included Bark|Limb Damage - Minor, REFER TO ROOT TREATMENT DETAIL
71	Sabal palmetto	Cabbage Palm	8	24	12	947865.329	765532.588	Fair	Remain	Bent Trunk
72	Sabal palmetto	Cabbage Palm	10	16	15	947874.222	765526.312	Good	Remain	
73	Quercus virginiana	Live Oak	18	34	40	947916.413	765512.256	Fair	Remain	Bent Leader|Co-Dominant Leaders|Lopsided, REFER TO ROOT TREATMENT DETAIL
74	Quercus virginiana	Live Oak	20	40	42	947921.686	765510.514	Fair	Remain	Bent Leader|Co-Dominant Leaders, REFER TO ROOT TREATMENT DETAIL
75	Quercus virginiana	Live Oak	18	40	38	947936.079	765508.559	Fair	Remain	Co-Dominant Leaders|Included Bark|Limb Damage - Minor, REFER TO ROOT TREATMENT DETAIL
76	Quercus virginiana	Live Oak	25	38	36	947968.112	765500.157	Fair	Remain	Co-Dominant Leaders|Included Bark, REFER TO ROOT TREATMENT DETAIL
77	Quercus virginiana	Live Oak	22	40	40	947988.311	765492.225	Good	Remain	Co-Dominant Leaders, REFER TO ROOT TREATMENT DETAIL
78	Quercus virginiana	Live Oak	26	38	40	948023.476	765480.544	Fair	Remain	Bent Leader|Limb Damage - Minor|Lopsided, REFER TO ROOT TREATMENT DETAIL
79	Quercus virginiana	Live Oak	14	32	34	948032.699	765478.813	Fair	REMOVE	Bent Leader|Co-Dominant Leaders|Lopsided
80	Quercus virginiana	Live Oak	16	34	40	948075.585	765462.772	Fair	Remain	Bent Leader|Limb Damage - Minor|Lopsided, REFER TO ROOT TREATMENT DETAIL
81	Quercus virginiana	Live Oak	22	42	40	948080.212	765452.477	Good	Remain	Co-Dominant Leaders, REFER TO ROOT TREATMENT DETAIL
82	Quercus virginiana	Live Oak	18	38	40	948104.057	765453.17	Fair	Remain	Co-Dominant Leaders|Included Bark|Limb Damage - Minor, REFER TO ROOT TREATMENT DETAIL
83	Pinus elliottii	Slash Pine	22	45	36	948219.723	765410.05	Fair	Remain	Hat Racked|Limb Damage - Minor|Lopsided, ROOT PRUNE
84	Quercus virginiana	Live Oak	22	38	40	948249.636	765402.068	Fair	Remain	Co-Dominant Leaders|Limb Damage - Minor|Sprouting, ROOT PRUNE
85	Sabal palmetto	Cabbage Palm	14	16	12	948354.712	765431.16	Good	RELOCATE	Impacting shared use path (Relocated in Typical B)
86	Simarouba glauca	Paradise Tree	4	12	14	948531.144	765360.33	Good	Remain	
87	Phoenix roebelenii	Pygmy Date Palm	4	6	12	948516.106	765366.658	Good	Remain	
88	Conocarpus erectus	Silver Buttonwood	4	16	12	948544.4	765349.828	Good	RELOCATE	Slight Lean, Impacting shared use path (Relocated between Sta 37+20 to 37 + 40)
89	Bismarckia nobilis	Bismark Palm	14	10	14	948566.073	765347.152	Good	Remain	
90	Conocarpus erectus	Silver Buttonwood	5	14	16	948587.86	765334.848	Good	RELOCATE	Slight Lean, (Relocated between Sta 37+60 to 37 + 80)
91	Simarouba glauca	Paradise Tree	6	16	14	948607.977	765331.84	Good	Remain	Co-Dominant Leaders|Limb Damage - Minor
92	Conocarpus erectus	Silver Buttonwood	5	18	14	948624.353	765321.506	Fair	RELOCATE	Co-Dominant Leaders|Leaning - Minor, Impacting shared use path (Relocated between sta 38+00 to 38 + 10)
93	Quercus virginiana	Live Oak	20	40	42	948617.388	765273.292	Fair	Remain	Co-Dominant Leaders|Included Bark|Limb Damage - Minor, REFER TO ROOT TREATMENT DETAIL
94	Quercus virginiana	Live Oak	18	42	38	948646.104	765263.285	Fair	Remain	Co-Dominant Leaders|Limb Damage - Minor|Lopsided. REFER TO ROOT TREATMENT DETAIL
95	Quercus virginiana	Live Oak	20	40	44	948667.782	765254.436	Fair	Remain	Co-Dominant Leaders|Constricted Roots|Limb Damage - Minor, ROOT PRUNE
96	Quercus virginiana	Live Oak	20	38	40	948689.39	765246.184	Fair	Remain	Co-Dominant Leaders, Impacting shared use path, ROOT PRUNE
97	Sabal palmetto	Cabbage Palm	10	18	12	948721.33	765231.809	Fair	RELOCATE	Bent Trunk, Impacting shared use path (Relocated in Typical B)
98	Sabal palmetto	Cabbage Palm	12	22	12	948725.425	765224.08	Good	RELOCATE	Impacting shared use path (Relocated in Typical B)
99	Sabal palmetto	Cabbage Palm	12	26	12	948726.359	765219.017	Good	RELOCATE	Impacting shared use path (Relocated in Typical B)

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CASTO MIGUEL JUNCAL
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No.	Revisions	By	Date

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OLD GERMANTOWN ROAD

TREE DISPOSITION CHART

PROJECT NO. 444377-1

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Tree Disposition Chart

TREE NO.	BOTANICAL NAME	COMMON NAME	DBH (IN.) FOR TREES /CTH (FT.) FOR PLAMS	HEIGHT (FT.) (APPROX.)	CANOPY SPREAD (FT.) (APPROX.)	LOCATION		Condition	Disposition	Notes
						STATION	OFFSET			
100	Quercus virginiana	Live Oak	24	38	40	948810.6616	765200.2314	Fair	Remain	Co-Dominant Leaders|Limb Damage - Minor|Sprouting, Impacting shared use path, ROOT PRUNE
101	Bucida buceras	Black Olive	28	42	50	948920.7268	765233.3923	Fair	Remain	Adjust Power Lines|Co-Dominant Leaders|Limb Damage - Minor, ROOT PRUNE
102	Bucida buceras	Black Olive	20	38	42	948901.0513	765242.5565	Fair	Remain	Adjust Power Lines|Co-Dominant Leaders|Limb Damage - Minor
103	Sabal palmetto	Cabbage Palm	14	20	6	949507.3117	765010.2873	Poor	Remain	Adjusted Power Lines|Most Fronds Missing
104	Sabal palmetto	Cabbage Palm	12	16	14	949505.2073	765011.326	Good	Remain	Co-Dominant Leaders|Included Bark|Limb Damage - Minor
105	Quercus virginiana	Live Oak	10	16	12	949509.307	764998.8932	Very Poor	Remain	Hat Racked|Limb Damage - Major|Trunk Damage - Major
106	Pinus elliottii	Slash Pine	12	36	24	949521.5921	764997.588	Fair	Remain	Bent Leader|Limb Damage - Minor, ROOT PRUNE
107	Pinus elliottii	Slash Pine	14	36	28	949527.9771	764996.3482	Fair	Remain	Adjust Power Lines|Co-Dominant Leaders|Lopsided, ROOT PRUNE
108	Pinus elliottii	Slash Pine	16	36	30	949531.6239	764988.1898	Fair	REMOVE	Adjust Power Lines|Co-Dominant Leaders|Lopsided,
109	Pinus elliottii	Slash Pine	14	36	30	949535.9187	764989.0924	Poor	Remain	Apical Dieback|Co-Dominant Leaders|Lopsided, ROOT PRUNE
110	Pinus elliottii	Slash Pine	10	28	24	949535.1114	764985.2407	Poor	REMOVE	Apical Dieback|Bent Leader|Limb Damage - Minor, Impacting shared use path
111	Pinus elliottii	Slash Pine	16	40	32	949540.9542	764983.7092	Good	REMOVE	Impacting shared use path
112	Roystonea regia	Royal Palm	16	36	16	949607.0232	764957.8809	Good	Remain	
113	Pinus elliottii	Slash Pine	17	36	24	949633.647	764951.2163	Fair	Remain	Bent Leader|Limb Damage - Minor|Lopsided, ROOT PRUNE
114	Veitchia arecina	Montgomery Palm	6	20	12	949728.857	764910.4364	Good	REMOVE	Impacting shared use path
115	Pinus elliottii	Slash Pine	16	36	30	949755.1961	764903.4637	Fair	Remain	Bent Leader|Limb Damage - Minor, ROOT PRUNE
116	Pinus elliottii	Slash Pine	12	32	30	949812.5182	764882.7945	Good	Remain	ROOT PRUNE
117	Pinus elliottii	Slash Pine	12	42	30	949815.6846	764886.367	Good	Remain	ROOT PRUNE
118	Pinus elliottii	Slash Pine	18	42	30	949821.5301	764878.7884	Good	REMOVE	Impacting shared use path
119	Pinus elliottii	Slash Pine	14	36	30	949748.833	764842.778	Fair	Remain	Bent Leader|Lopsided, ROOT PRUNE
120	Pinus elliottii	Slash Pine	16	38	34	949754.8666	764841.3651	Good	Remain	ROOT PRUNE
121	Washingtonia robusta	Washingtonia Palm	12	30	10	949694.8198	764862.1478	Good	Remain	
122	Pinus elliottii	Slash Pine	20	38	36	949964.1327	764820.1006	Good	Remain	Adjust Power Lines, Impacting shared use path, REFER TO ROOT TREATMENT DETAIL
123	Pinus elliottii	Slash Pine	14	36	34	950025.1242	764809.8191	Good	Remain	Adjust Power Lines, REFER TO ROOT TREATMENT DETAIL
124	Sabal palmetto	Cabbage Palm	12	18	12	950100.8538	764773.5065	Good	Remain	
125	Pinus elliottii	Slash Pine	16	40	36	950165.2436	764700.9507	Good	Remain	Impacting shared use path, ROOT PRUNE
126	Pinus elliottii	Slash Pine	15	42	34	950142.5719	764711.8277	Good	Remain	
127	Pinus elliottii	Slash Pine	14	32	24	950138.6177	764715.1868	Fair	Remain	Hat Racked|Limb Damage - Minor, Impacting shared use path, ROOT PRUNE
128	Pinus elliottii	Slash Pine	14	42	30	950126.962	764712.5669	Good	REMOVE	Impacting shared use path
129	Pinus elliottii	Slash Pine	12	32	24	950120.7247	764718.5819	Fair	Remain	Bent Leader, Impacting shared use path, ROOT PRUNE
130	Pinus elliottii	Slash Pine	16	42	36	950100.6166	764721.4471	Good	Remain	Impacting shared use path, ROOT PRUNE
131	Pinus elliottii	Slash Pine	16	40	36	950071.5812	764734.8912	Good	Remain	Impacting shared use path, ROOT PRUNE
132	Pinus elliottii	Slash Pine	12	38	32	950055.2057	764739.4925	Good	Remain	Impacting shared use path, REFER TO ROOT TREATMENT DETAIL
133	Sabal palmetto	Cabbage Palm	14	16	14	950038.7286	764738.7675	Good	Remain	
134	Pinus elliottii	Slash Pine	14	42	30	950046.8501	764746.9741	Good	REMOVE	Impacting shared use path
135	Sabal palmetto	Cabbage Palm	14	18	14	950012.3257	764758.5064	Good	Remain	
136	Pinus elliottii	Slash Pine	10	36	14	950007.9239	764757.0186	Good	Remain	Impacting shared use path, ROOT PRUNE
137	Quercus virginiana	Live Oak	14	32	36	949989.0817	764770.2993	Fair	REMOVE	Co-Dominant Leaders|Lopsided, Impacting shared use path
138	Pinus elliottii	Slash Pine	4	24	14	949963.9194	764771.3697	Good	Remain	Impacting shared use path, REFER TO ROOT TREATMENT DETAIL
139	Sabal palmetto	Cabbage Palm	10	18	12	950637.7967	764588.438	Good	RELOCATE	Impacting shared use path (Relocated in Typical B)
140	Sabal palmetto	Cabbage Palm	6	18	12	950645.6374	764590.4316	Fair	RELOCATE	Tapered Trunk, Impacting shared use path (Relocated in Typical B)
141	Quercus virginiana	Live Oak	34	36	60	950737.7088	764590.6514	Fair	Remain	Adjust Power Lines|Co-Dominant Leaders
142	Quercus virginiana	Live Oak	26	36	40	950772.6895	764502.439	Fair	Remain	Bent Leader|Co-Dominant Leaders|Lopsided
143	Quercus virginiana	Live Oak	26	40	38	950757.044	764508.9335	Fair	Remain	Bent Leader|Co-Dominant Leaders
144	Quercus virginiana	Live Oak	22	40	36	950718.9345	764514.1804	Fair	Remain	Co-Dominant Leaders|Limb Damage - Minor
145	Quercus virginiana	Live Oak	20	38	40	950675.2047	764527.5066	Fair	Remain	Bent Leader|Co-Dominant Leaders|Limb Damage - Minor

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OLD GERMANTOWN ROAD

TREE DISPOSITION CHART

SHEET: 156
OF: 177

PROJECT NO. 444377-1

Tree Disposition Chart

TREE NO.	BOTANICAL NAME	COMMON NAME	DBH (IN.) FOR TREES /CTH (FT.) FOR PLAMS	HEIGHT (FT.) (APPROX.)	CANOPY SPREAD (FT.) (APPROX.)	LOCATION		Condition	Disposition	Notes
						STATION	OFFSET			
146	Quercus virginiana	Live Oak	14	32	30	950656.269	764528.7071	Fair	Remain	Bent Leader|Lopsided
150	Swietenia mahagoni	West Indian Mahogany	13	25	30			Good	Remain	REFER TO ROOT TREATMENT DETAIL
151	Swietenia mahagoni	West Indian Mahogany	12	28	30			Good	Remain	REFER TO ROOT TREATMENT DETAIL
152	Swietenia mahagoni	West Indian Mahogany	10	20	28			Fair	Remain	
153	Swietenia mahagoni	West Indian Mahogany	10	25	20			Poor	Remain	
154	Swietenia mahagoni	West Indian Mahogany	12	25	25			Good	Remain	REFER TO ROOT TREATMENT DETAIL
155	Dypsis lutescens	Areca Palm		18				Good	Remain	
156	Dypsis lutescens	Areca Palm		14				Good	Remain	
157	Dypsis lutescens	Areca Palm		12				Good	Remain	
158	Dypsis lutescens	Areca Palm		10				Good	Remain	
159	Dypsis lutescens	Areca Palm		18				Good	Remain	
160	Swietenia mahagoni	West Indian Mahogany	10	25	28			Good	Remain	REFER TO ROOT TREATMENT DETAIL
161	Swietenia mahagoni	West Indian Mahogany	15	28	20			Good	Remain	REFER TO ROOT TREATMENT DETAIL
162	Swietenia mahagoni	West Indian Mahogany	18	30	25			Good	Remain	REFER TO ROOT TREATMENT DETAIL
163	Swietenia mahagoni	West Indian Mahogany	20	28	20			Good	Remain	REFER TO ROOT TREATMENT DETAIL
164	Swietenia mahagoni	West Indian Mahogany	15	25	20			Good	Remain	REFER TO ROOT TREATMENT DETAIL
165	Swietenia mahagoni	West Indian Mahogany	25	30	25			Good	Remain	
166	Swietenia mahagoni	West Indian Mahogany	18	28	35			Fair	Remain	REFER TO ROOT TREATMENT DETAIL
167	Swietenia mahagoni	West Indian Mahogany	18	25	25			Good	Remain	
168	Swietenia mahagoni	West Indian Mahogany	18	25	20			Good	Remain	ROOT PRUNE
169	Swietenia mahagoni	West Indian Mahogany	10	28	20			Good	Remain	REFER TO ROOT TREATMENT DETAIL
170	Swietenia mahagoni	West Indian Mahogany	10	28	15			Fair	Remain	
171	Dypsis lutescens	Areca Palm		15				Good	Remain	
172	Dypsis lutescens	Areca Palm		10				Good	Remain	
173	Dypsis lutescens	Areca Palm		10				Good	Remain	
174	Dypsis lutescens	Areca Palm		18				Good	Remain	

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OLD GERMANTOWN ROAD

TREE DISPOSITION CHART

SHEET: 157
OF: 177

PROJECT NO.
444377-1

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Tree Mitigation Chart

TREE NO.	BOTANICAL NAME	COMMON NAME	CANOPY SPREAD (FT.) (APPROX.)	CANOPY AREA (SQ.FT.)	Condition	Condition Percentage	Disposition
47	Conocarpus erectus	Green Buttonwood	8	50	Very Poor	40%	Remove
79	Quercus virginiana	Live Oak	34	907	Fair	35%	Remove
108	Pinus elliottii	Slash Pine	30	707	Fair	75%	Remove
110	Pinus elliottii	Slash Pine	24	452	Poor	80%	Remove
111	Pinus elliottii	Slash Pine	32	804	Good	75%	Remove
114	Veitchia arecina	Montgomery Palm	12	113	Good	60%	Remove
118	Pinus elliottii	Slash Pine	30	707	Good	75%	Remove
128	Pinus elliottii	Slash Pine	30	707	Good	65%	Remove
134	Pinus elliottii	Slash Pine	30	707	Good	75%	Remove
137	Quercus virginiana	Live Oak	36	1017	Fair	45%	Remove

NOTE:
CITY IS EXEMPT FROM MITIGATION REQUIREMENTS.
LANDSCAPE REFLECTED IN PLANS IS BEING
PROVIDED IN GOOD FAITH.

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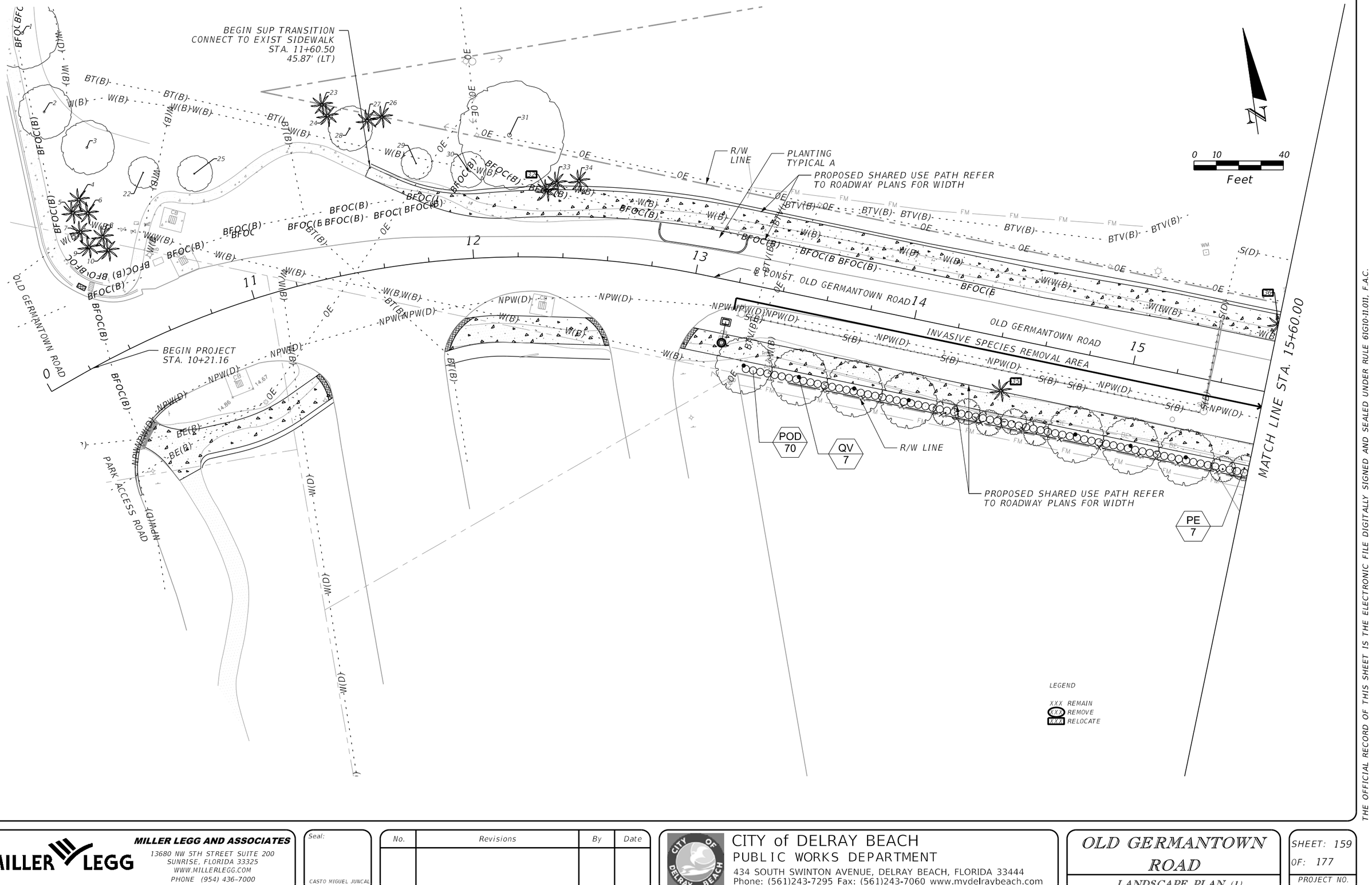
OLD GERMANTOWN ROAD

TREE DISPOSITION CHART

SHEET: 158
OF: 177

PROJECT NO. 444377-1

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OLD GERMANTOWN ROAD

LANDSCAPE PLAN (1)

SHEET: 159
OF: 177
PROJECT NO. 444377-1

MATCH LINE STA. 15+60.00

MATCH LINE STA. 21+20.00

N

0 10 40

Feet

S(D)

OE

W(B)

R/W LINE

PROPOSED SHARED USE PATH REFER TO ROADWAY PLANS FOR WIDTH

PLANTING TYPICAL A

OLD GERMANTOWN ROAD

℄ CONST. OLD GERMANTOWN ROAD

SPANISH WELLS DRIVE (PRIVATE ROAD)

16 17 18 19 20 21

INVASIVE SPECIES REMOVAL AREA

NPW(D)

BRIDLEWOOD DRIVE (PRIVATE ROAD)

QV 7

PE 8

POD 82

QV 4

POD 26

LEGEND

XXX REMAIN

XXX REMOVE

XXX RELOCATE

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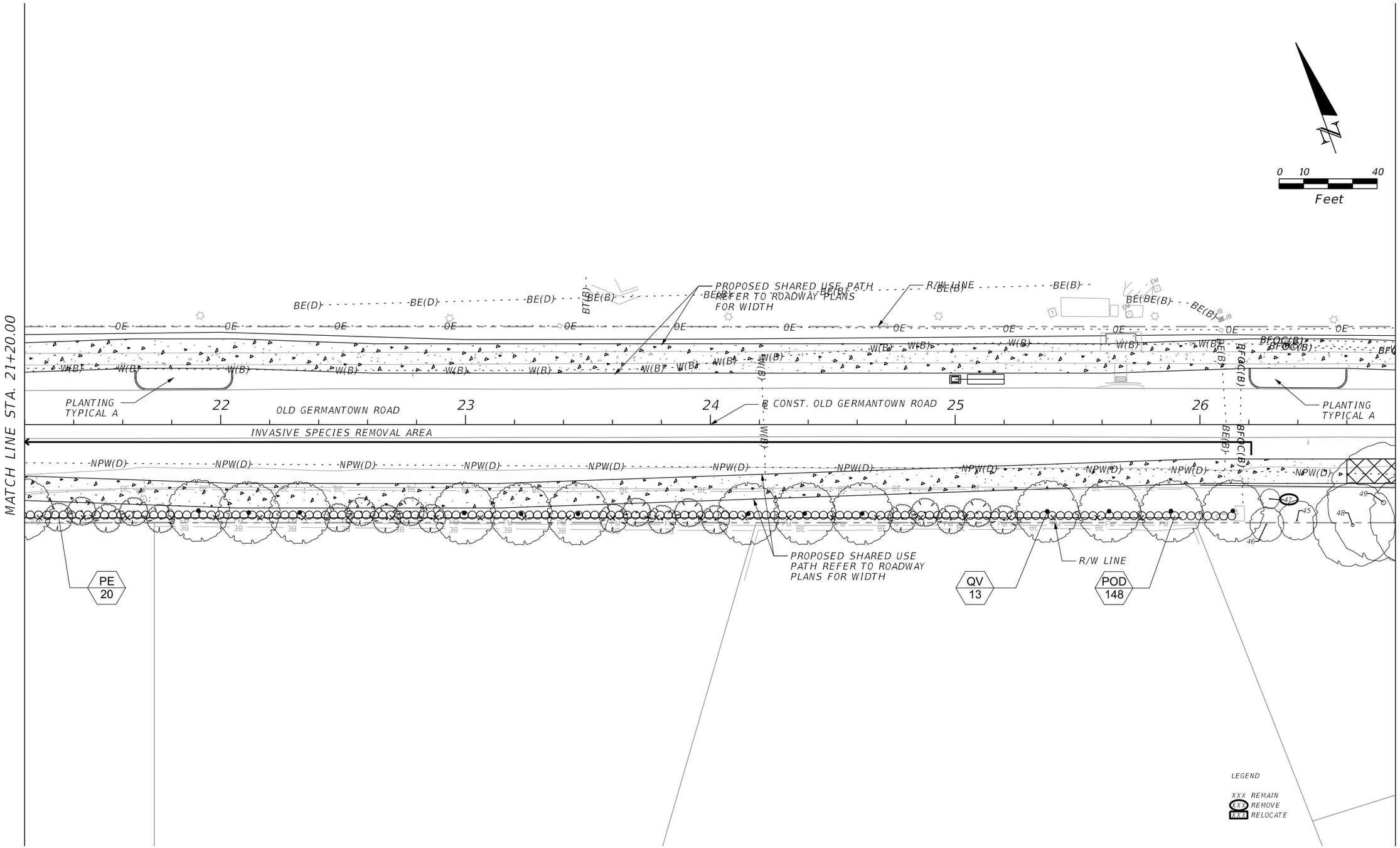
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OLD GERMANTOWN ROAD

LANDSCAPE PLAN (2)

SHEET: 160
OF: 177

PROJECT NO. 444377-1



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No.	Revisions	By	Date

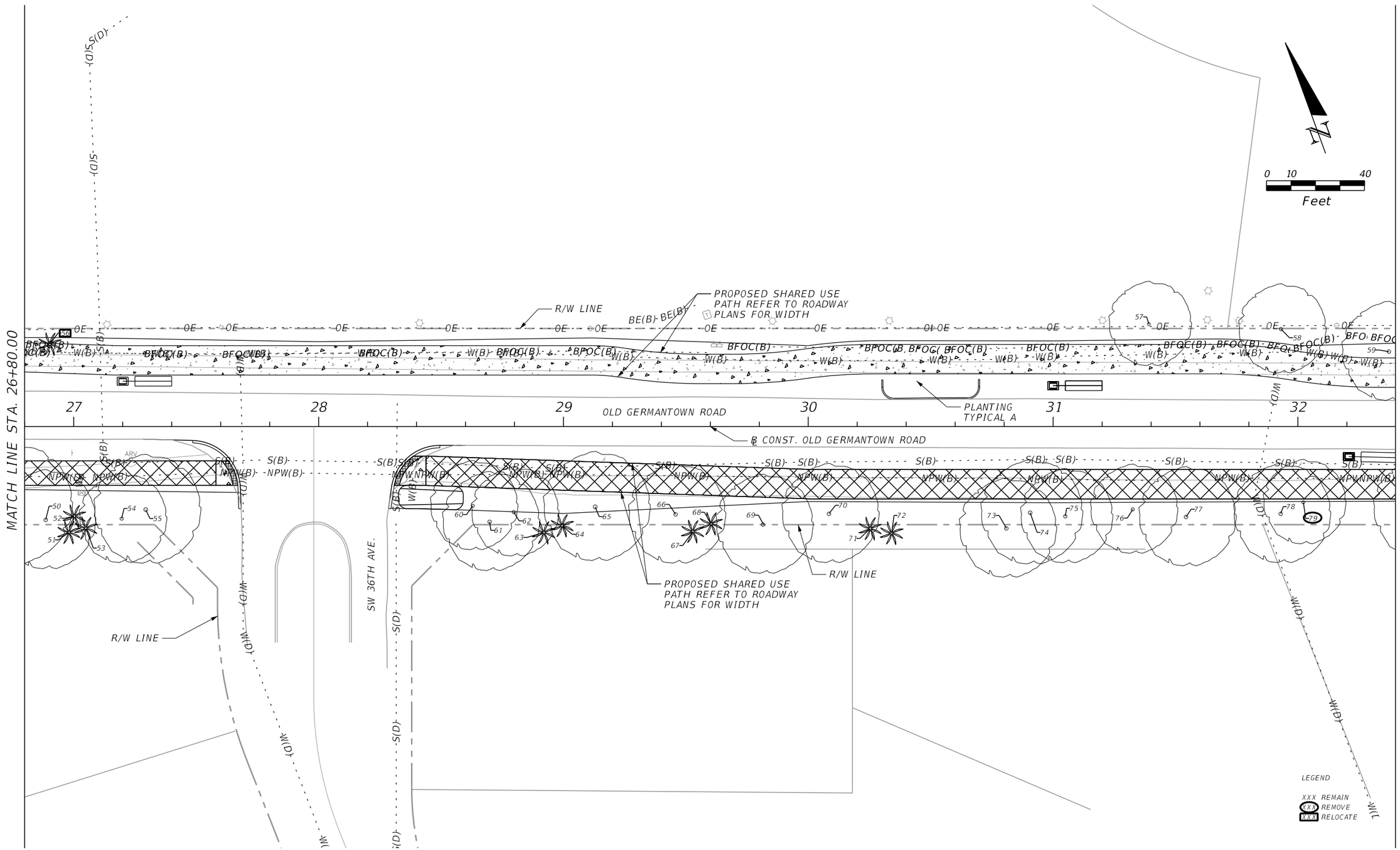
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OLD GERMANTOWN ROAD

LANDSCAPE PLAN (3)

SHEET: 161
OF: 177
PROJECT NO. 444377-1



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OLD GERMANTOWN ROAD

LANDSCAPE PLAN (4)

SHEET: 162
OF: 177
PROJECT NO. 444377-1

MATCH LINE STA. 32+40.00

MATCH LINE STA. 38+00.00

PROPOSED SHARED USE PATH REFER TO ROADWAY PLANS FOR WIDTH

R/W LINE

PLANTING TYPICAL B RELOCATE TREE #32,35,36,37

OLD GERMANTOWN ROAD

℄ CONST. OLD GERMANTOWN ROAD

COPLEY PL (PRIVATE ROAD)

RABBIT HOLLOWE DRIVE

0 10 40

Feet

LEGEND

XXX REMAIN

(XXX) REMOVE

[XXX] RELOCATE

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OLD GERMANTOWN ROAD

LANDSCAPE PLAN (5)

SHEET: 163
OF: 177
PROJECT NO. 444377-1

MATCH LINE STA. 38+00.00

MATCH LINE STA. 43+60.00

HIGHLAND GROVES DRIVE (PRIVATE ROAD)

PALM COVE BLVD. (PRIVATE ROAD)

R/W LINE

PROPOSED SHARED USE PATH REFER TO ROADWAY PLANS FOR WIDTH

PLANTING TYPICAL B RELOCATE TREE #38,39,44,56

℄ CONST. OLD GERMANTOWN ROAD

OLD GERMANTOWN ROAD

0 10 40

Feet

LEGEND

XXX REMAIN

XXX REMOVE

XXX RELOCATE

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OLD GERMANTOWN ROAD

LANDSCAPE PLAN (6)

SHEET: 164
OF: 177
PROJECT NO. 444377-1

MATCH LINE STA. 43+60.00

MATCH LINE STA. 49+20.00

0 10 40
Feet

R/W LINE

PROPOSED SHARED USE PATH REFER TO ROADWAY PLANS FOR WIDTH

44 45 46 OLD GERMANTOWN ROAD 47 48 49

℄ CONST. OLD GERMANTOWN ROAD

PLANTING TYPICAL B RELOCATE TREE # 85,97,98,99

PROPOSED SHARED USE PATH REFER TO ROADWAY PLANS FOR WIDTH

R/W LINE

VIA VERONA

LEGEND

XXX REMAIN
XXX REMOVE
XXX RELOCATE

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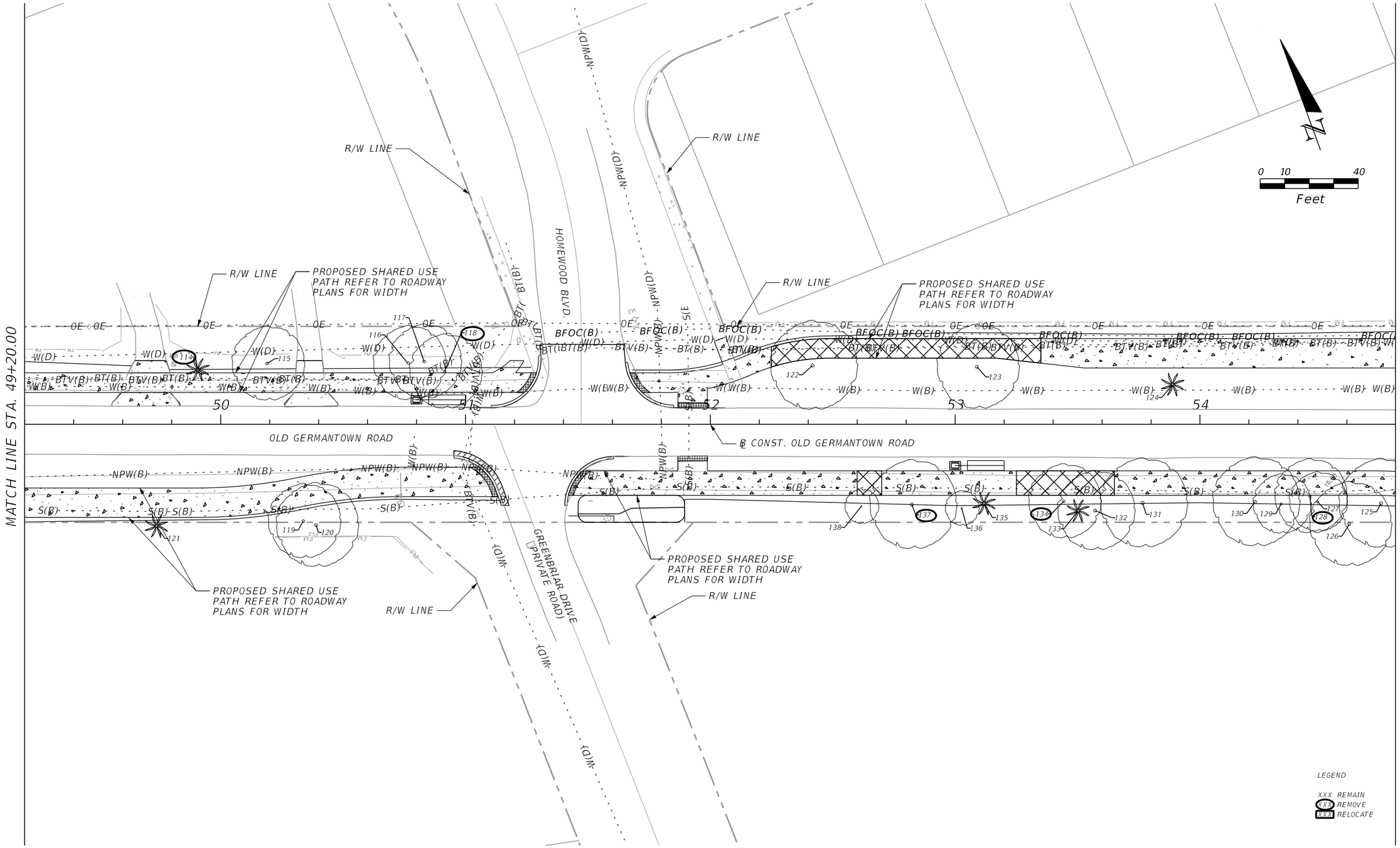
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OLD GERMANTOWN ROAD

LANDSCAPE PLAN (7)

SHEET: 165
OF: 177

PROJECT NO. 444377-1



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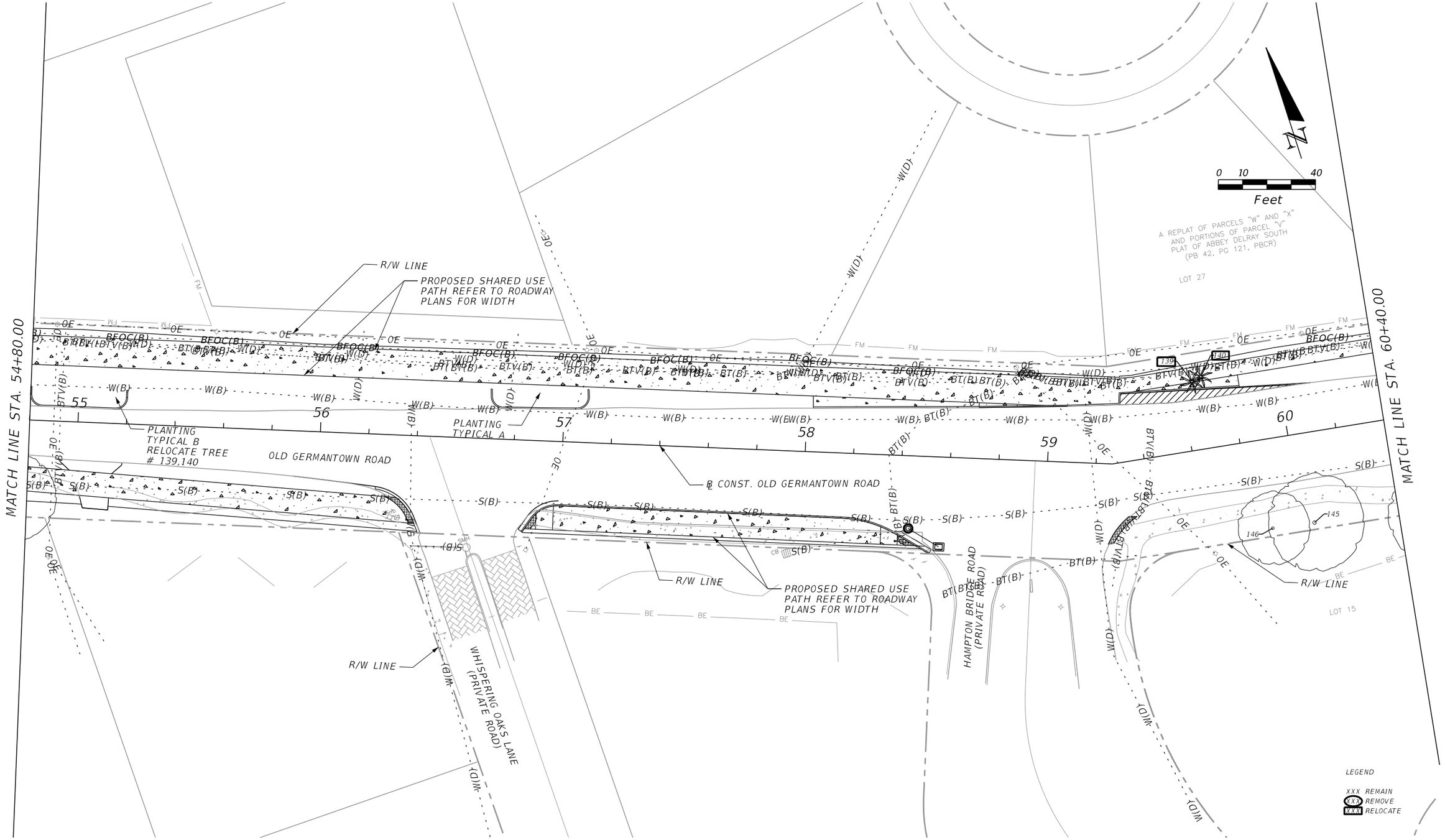
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OLD GERMANTOWN ROAD

LANDSCAPE PLAN (8)

SHEET: 166
OF: 177
PROJECT NO. 444377-1



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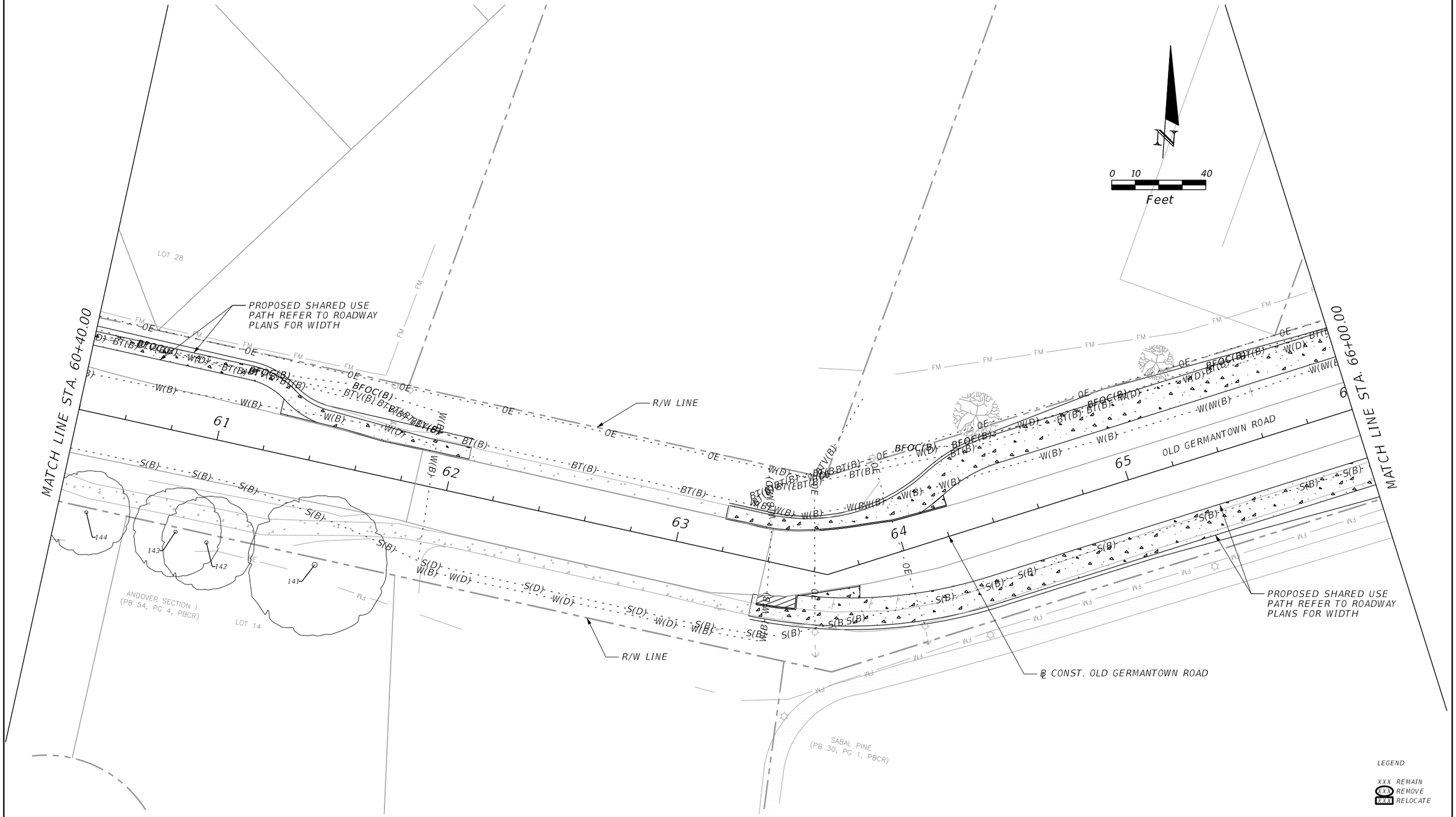
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OLD GERMANTOWN ROAD

LANDSCAPE PLAN (9)

SHEET: 167
OF: 177
PROJECT NO. 444377-1



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PHONE (954) 436-7000

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R.L.A.# LA6667184

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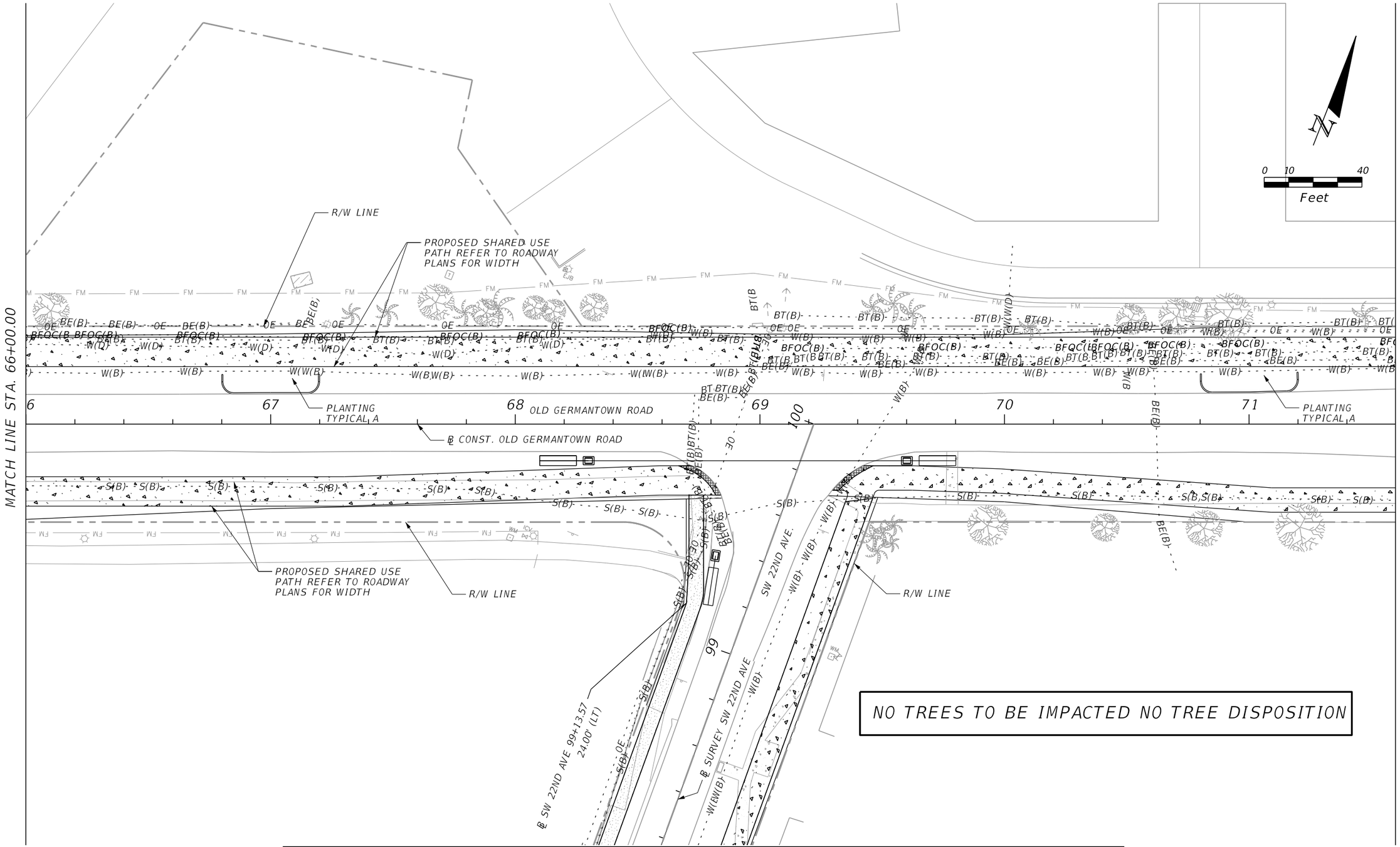
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OLD GERMANTOWN ROAD

LANDSCAPE PLAN (10)

SHEET: 168
OF: 177
PROJECT NO. 444377-1

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OLD GERMANTOWN ROAD

LANDSCAPE PLAN (11)

SHEET: 169
OF: 177
PROJECT NO. 444377-1

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MATCH LINE STA. 71+60.00

MATCH LINE STA. 77+20.00

PROPOSED SHARED USE PATH REFER TO ROADWAY PLANS FOR WIDTH

R/W LINE

PROPOSED SHARED USE PATH REFER TO ROADWAY PLANS FOR WIDTH

OLD GERMANTOWN ROAD

℄ CONST. OLD GERMANTOWN ROAD

72 73 74 75 76 77

0 10 40

Feet

ABANDONED LINE

R/W LINE

PROPOSED SHARED USE PATH REFER TO ROADWAY PLANS FOR WIDTH

NO TREES TO BE IMPACTED NO TREE DISPOSITION

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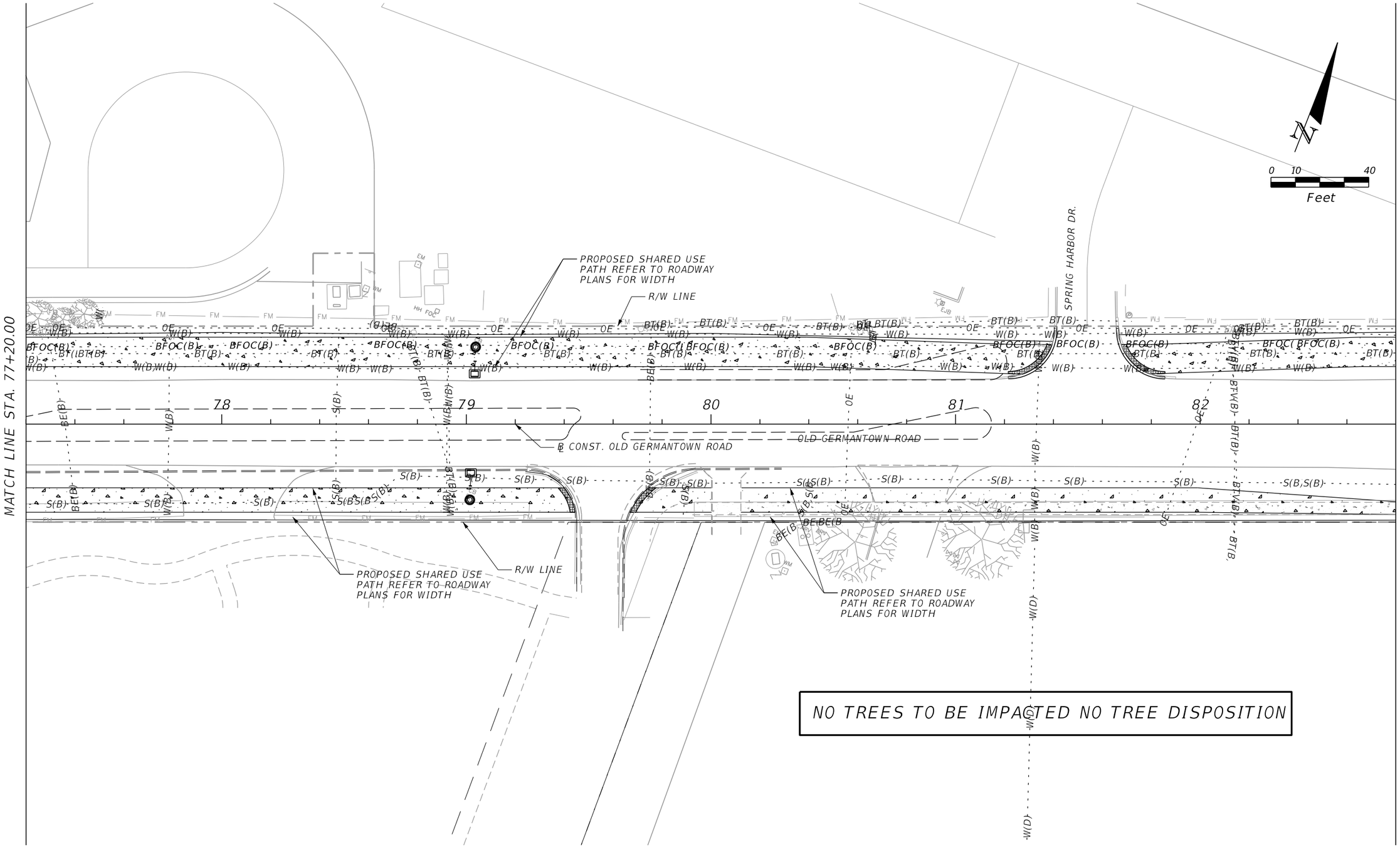
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OLD GERMANTOWN ROAD

LANDSCAPE PLAN (12)

SHEET: 170
OF: 177
PROJECT NO. 444377-1



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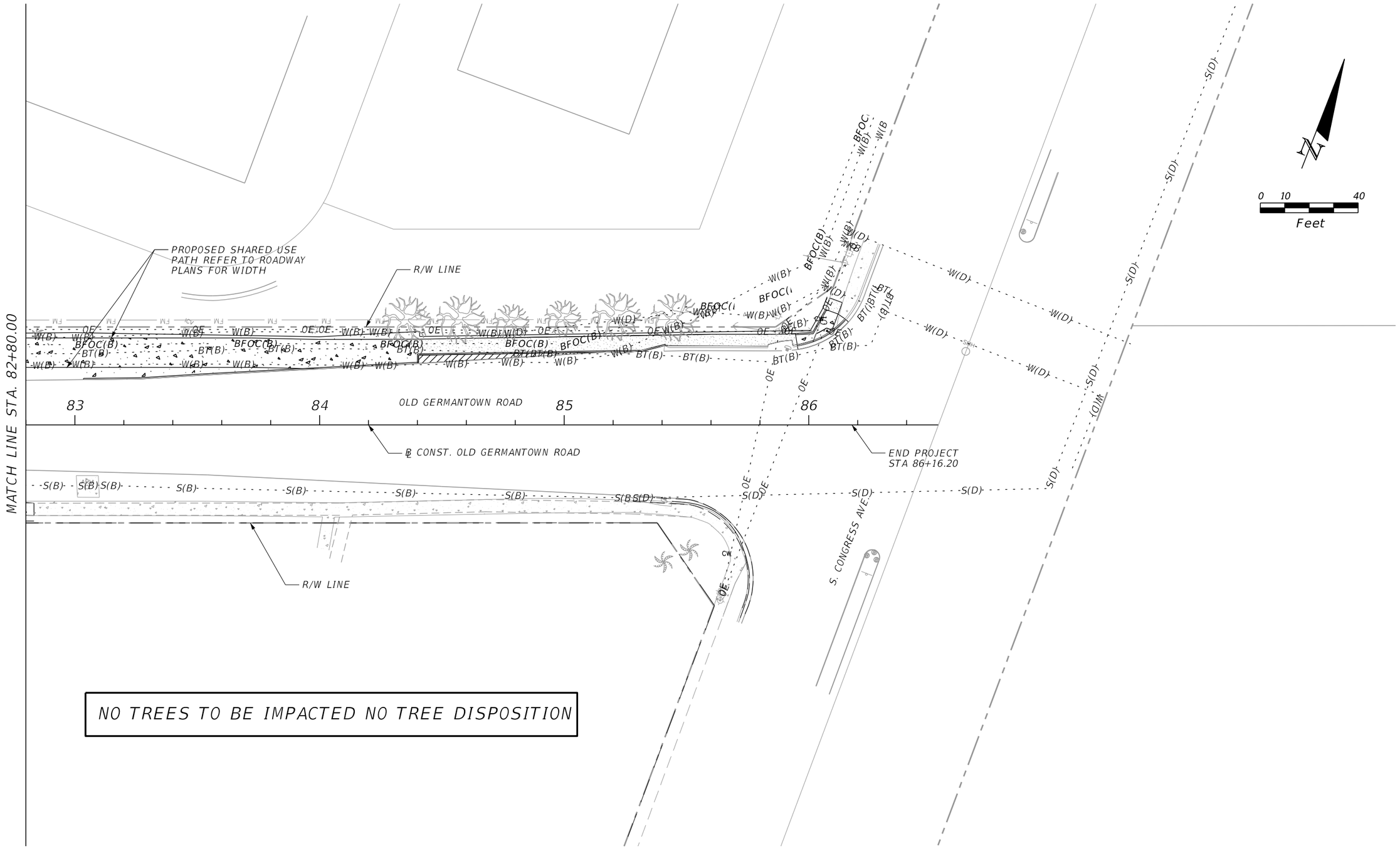
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OLD GERMANTOWN ROAD

LANDSCAPE PLAN (13)

SHEET: 171
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PROJECT NO. 444377-1



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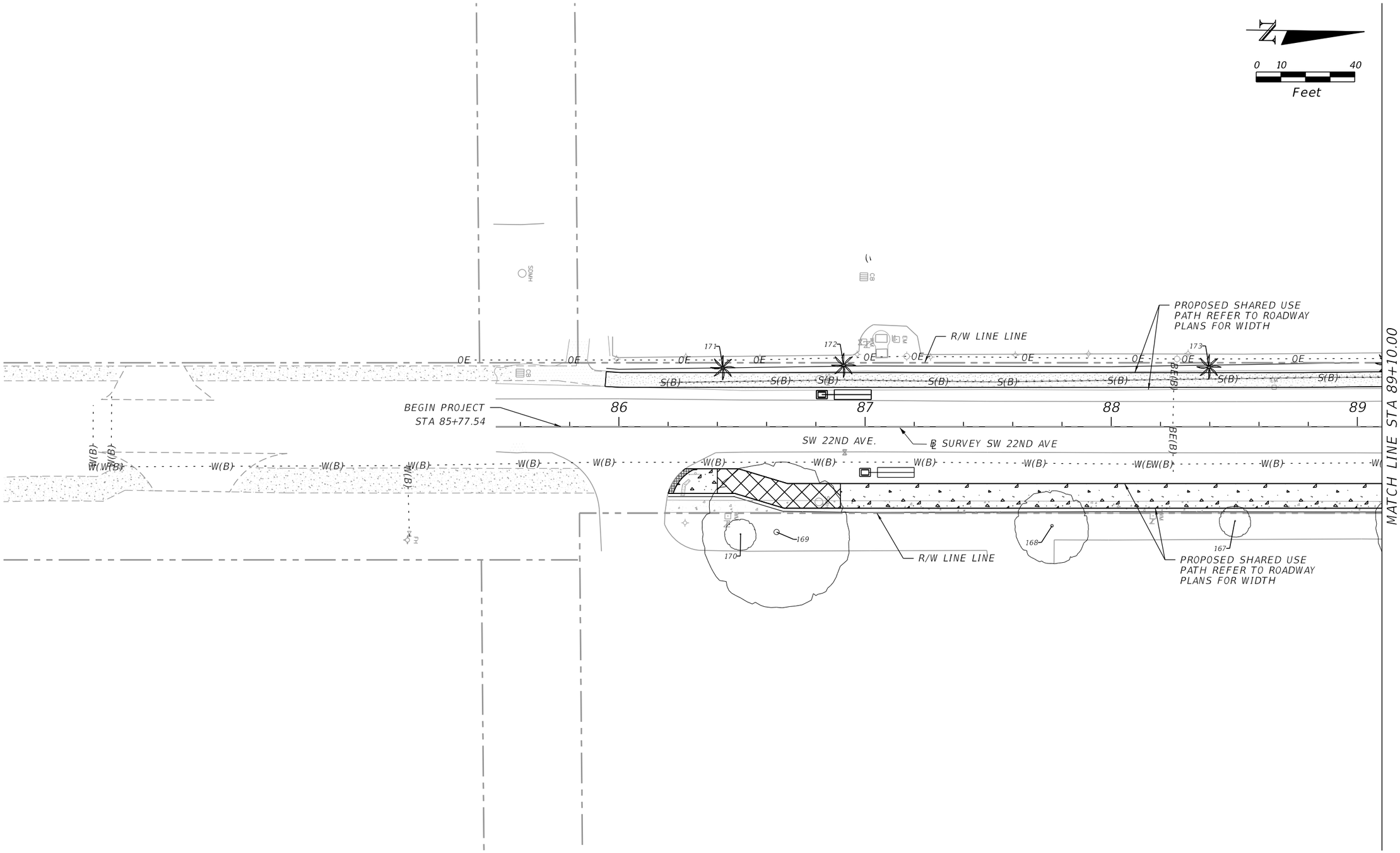
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OLD GERMANTOWN ROAD

LANDSCAPE PLAN (14)

SHEET: 172
OF: 177
PROJECT NO. 444377-1



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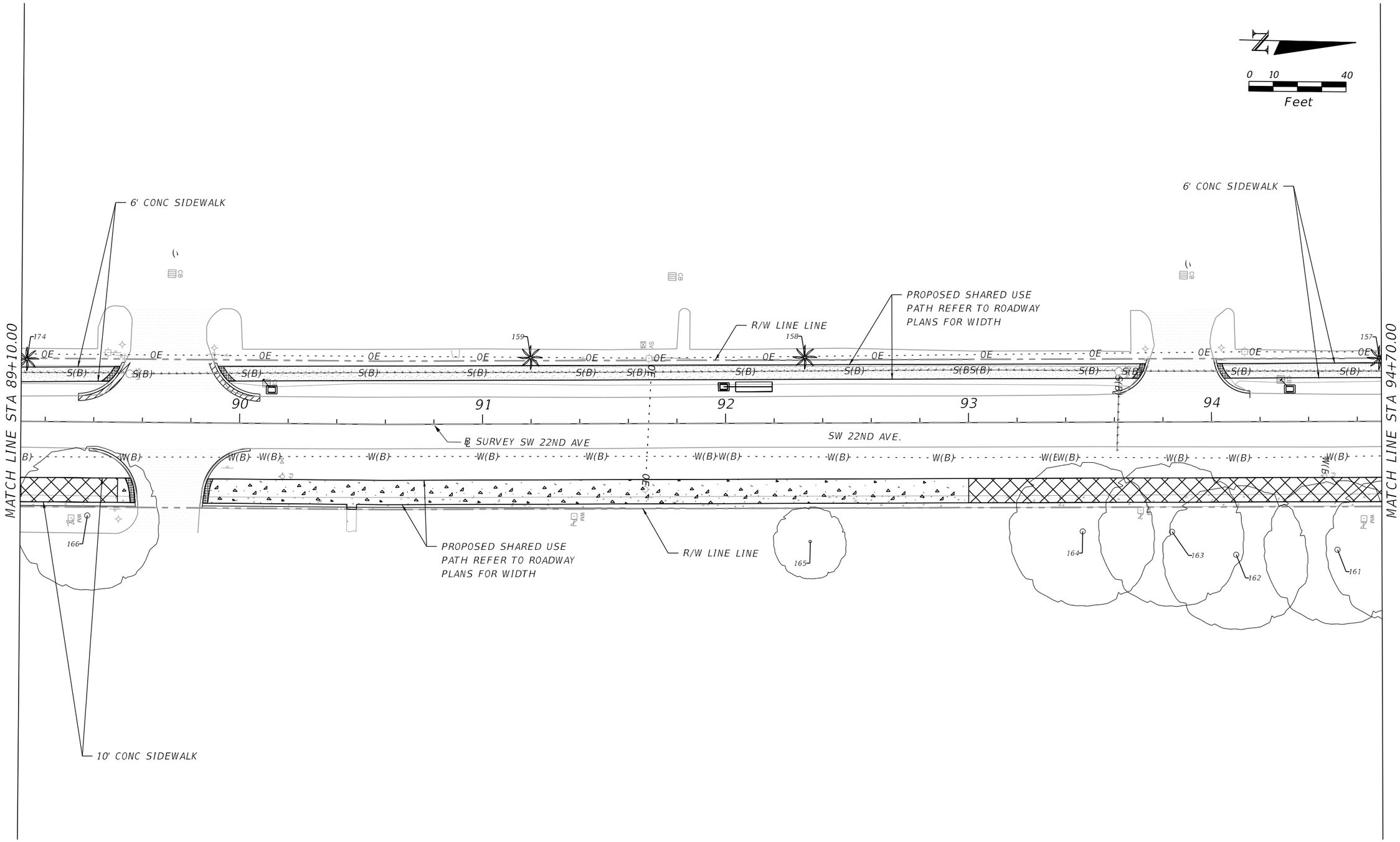
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SW 22ND AVE

LANDSCAPE PLAN (15)

SHEET: 173
OF: 177
PROJECT NO. 444377-1



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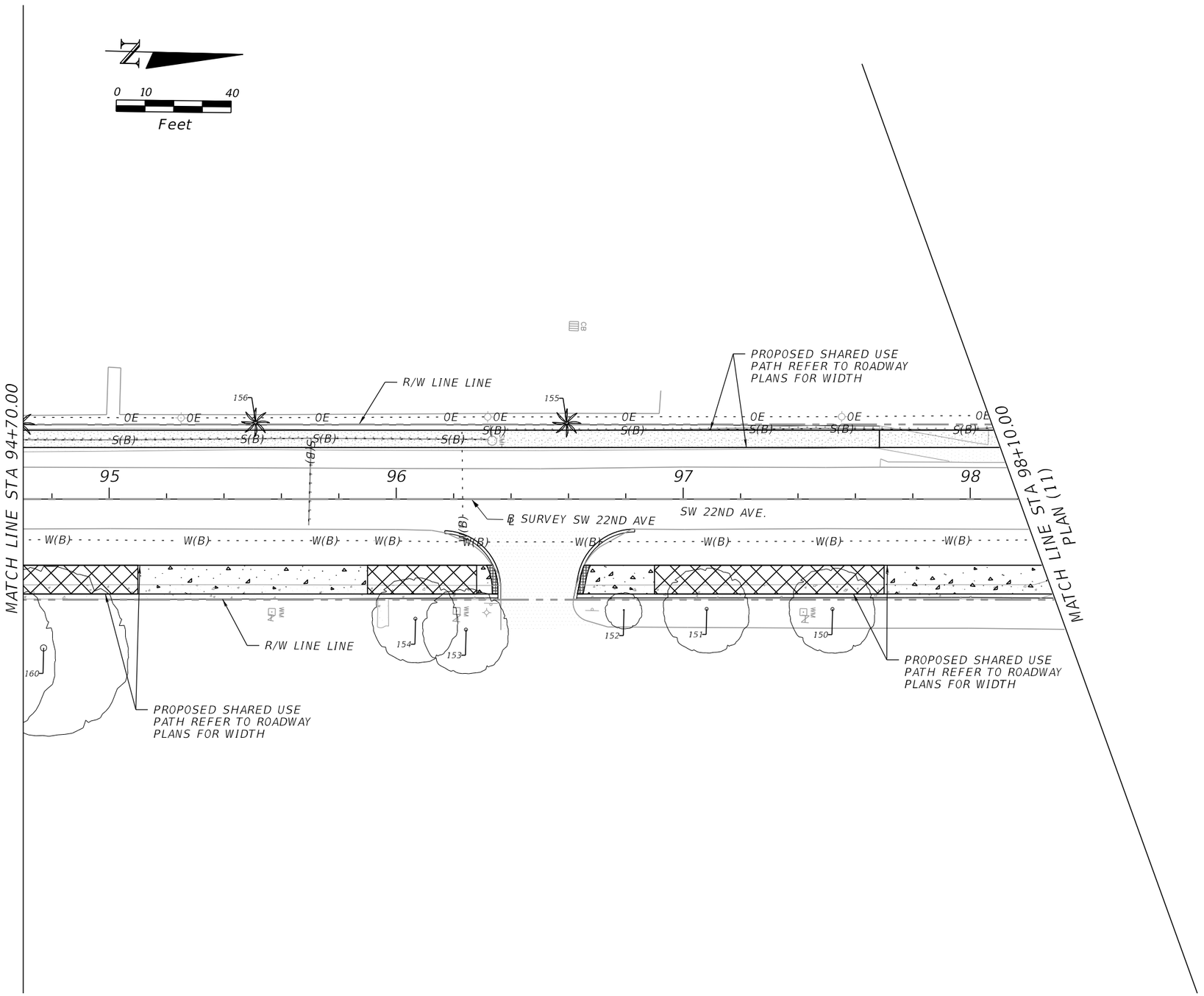
SW 22ND AVE

LANDSCAPE PLAN (16)

SHEET: 174
OF: 177

PROJECT NO.
444377-1

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SW 22ND AVE

LANDSCAPE PLAN (17)

SHEET: 175
OF: 177
PROJECT NO. 444377-1

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PLANT SCHEDULE

LABEL	DESCRIPTION	MAX. MAINT. SIZE	QUANTITY	SITE NO.	LOCATION DESCRIPTION	DESIGN NOTES
QV	Quercus virginiana / Live Oak, Field Grown, 4" DBH, 16HT		7	PLAN (1)	Screening	
PE	Pinus elliottii / Slash pine, Field Grown , 2.5" DBH, 12' HT		7	PLAN (1)		
POD	Podocarpus macrophyllus / Podocarpus, 7 GAL 36" HT. 36"x36" SPRD		70	PLAN (1)		
CE	Conocarpus erectus f. sericeus / Silver Buttonwood, Field Grown, 12` HT		2	PLAN (1)	Planting Typical A	
CHR	Chrysobalanus icaco 'Horizontalis' / Horizontal Coco Plum 3 GAL 24" HT. 24" OC		18	PLAN (1)		
LI	Lagerstroemia indica / Crape Myrtle Field Grown 16` HT		3	PLAN (1)		
MUH	Muhlenbergia capillaris / Pink Muhly Grass 3 GAL 24" HT. 24" OC		34	PLAN (1)		
PSY	Psychotria ligustrifolia / Bahama Coffee 3 GAL 24" HT. 24" OC		13	PLAN (1)		
QV	Quercus virginiana / Live Oak, Field Grown, 4" DBH, 16HT		8	PLAN (2)	Screening	
PE	Pinus elliottii / Slash pine, Field Grown , 2.5" DBH, 12' HT		11	PLAN (2)		
POD	Podocarpus macrophyllus / Podocarpus, 7 GAL 36" HT. 36"x36" SPRD		108	PLAN (2)		
CE	Conocarpus erectus f. sericeus / Silver Buttonwood, Field Grown, 12` HT		2	PLAN (2)	Planting Typical A	
CHR	Chrysobalanus icaco / Coco Plum 3 GAL 24" HT. 24" OC		18	PLAN (2)		
LI	Lagerstroemia indica / Crape Myrtle Field Grown 16` HT		3	PLAN (2)		
MUH	Muhlenbergia capillaris / Pink Muhly Grass 3 GAL 24" HT. 24" OC		34	PLAN (2)		
PSY	Psychotria ligustrifolia / Bahama Coffee 3 GAL 24" HT. 24" OC		13	PLAN (2)		
QV	Quercus virginiana / Live Oak, Field Grown, 4" DBH, 16HT		13	PLAN (3)	Screening	
PE	Pinus elliottii / Slash pine, Field Grown , 2.5" DBH, 12' HT		20	PLAN (3)		
POD	Podocarpus macrophyllus / Podocarpus, 7 GAL 36" HT. 36"x36" SPRD		148	PLAN (3)		
CE	Conocarpus erectus f. sericeus / Silver Buttonwood, Field Grown, 12` HT		4	PLAN (3)	Planting Typical A	
CHR	Chrysobalanus icaco / Coco Plum 3 GAL 24" HT. 24" OC		36	PLAN (3)		
LI	Lagerstroemia indica / Crape Myrtle Field Grown 16` HT		6	PLAN (3)		
MUH	Muhlenbergia capillaris / Pink Muhly Grass 3 GAL 24" HT. 24" OC		68	PLAN (3)		
PSY	Psychotria ligustrifolia / Bahama Coffee 3 GAL 24" HT. 24" OC		26	PLAN (3)		
CE	Conocarpus erectus f. sericeus / Silver Buttonwood, Field Grown, 12` HT		2	PLAN (4)	Planting Typical A	
CHR	Chrysobalanus icaco / Coco Plum 3 GAL 24" HT. 24" OC		18	PLAN (4)		
LI	Lagerstroemia indica / Crape Myrtle Field Grown 16` HT		3	PLAN (4)		
MUH	Muhlenbergia capillaris / Pink Muhly Grass 3 GAL 24" HT. 24" OC		34	PLAN (4)		
PSY	Psychotria ligustrifolia / Bahama Coffee 3 GAL 24" HT. 24" OC		13	PLAN (4)		
TR	Trinax radiata / Florida Thatch Palm 5' OAH		2	PLAN (5)	Planting Typical B	
LI	Lagerstroemia indica / Crape Myrtle Field Grown 16` HT		1	PLAN (5)		
MUH	Muhlenbergia capillaris / Pink Muhly Grass 3 GAL 24" HT. 24" OC		34	PLAN (5)		
PSY	Psychotria ligustrifolia / Bahama Coffee 3 GAL 24" HT. 24" OC		30	PLAN (5)		
TR	Thrinax radiata / Florida Thatch Palm Field Grown 5` OAH		2	PLAN (6)	Planting Typical B	
LI	Lagerstroemia indica / Crape Myrtle Field Grown 16` HT		1	PLAN (6)		
MUH	Muhlenbergia capillaris / Pink Muhly Grass 3 GAL 24" HT. 24" OC		34	PLAN (6)		
PSY	Psychotria ligustrifolia / Bahama Coffee 3 GAL 24" HT. 24" OC		30	PLAN (6)		
TR	Thrinax radiata / Florida Thatch Palm Field Grown 5` OAH		2	PLAN (7)	Planting Typical B	
LI	Lagerstroemia indica / Crape Myrtle Field Grown 16` HT		1	PLAN (7)		
MUH	Muhlenbergia capillaris / Pink Muhly Grass 3 GAL 24" HT. 24" OC		34	PLAN (7)		
PSY	Psychotria ligustrifolia / Bahama Coffee 3 GAL 24" HT. 24" OC		30	PLAN (7)		
SP	Sabal palmetto / Cabbage Palm 10' GW		2	PLAN (9)	Planting Typical A & B	
TR	Thrinax radiata / Florida Thatch Palm Field Grown 5` OAH		2	PLAN (9)		
CE	Conocarpus erectus f. sericeus / Silver Buttonwood, Field Grown, 12` HT		2	PLAN (9)		
CHR	Chrysobalanus icaco / Coco Plum 3 GAL 24" HT. 24" OC		18	PLAN (9)		
LI	Lagerstroemia indica / Crape Myrtle Field Grown 16` HT		4	PLAN (9)		
MUH	Muhlenbergia capillaris / Pink Muhly Grass 3 GAL 24" HT. 24" OC		68	PLAN (9)		
PSY	Psychotria ligustrifolia / Bahama Coffee 3 GAL 24" HT. 24" OC		43	PLAN (9)		
CE	Conocarpus erectus f. sericeus / Silver Buttonwood, Field Grown, 12` HT		4	PLAN (11)	Planting Typical A	
CHR	Chrysobalanus icaco / Coco Plum 3 GAL 24" HT. 24" OC		36	PLAN (11)		
LI	Lagerstroemia indica / Crape Myrtle Field Grown 16` HT		6	PLAN (11)		
MUH	Muhlenbergia capillaris / Pink Muhly Grass 3 GAL 24" HT. 24" OC		68	PLAN (11)		
PSY	Psychotria ligustrifolia / Bahama Coffee 3 GAL 24" HT. 24" OC		26	PLAN (11)		

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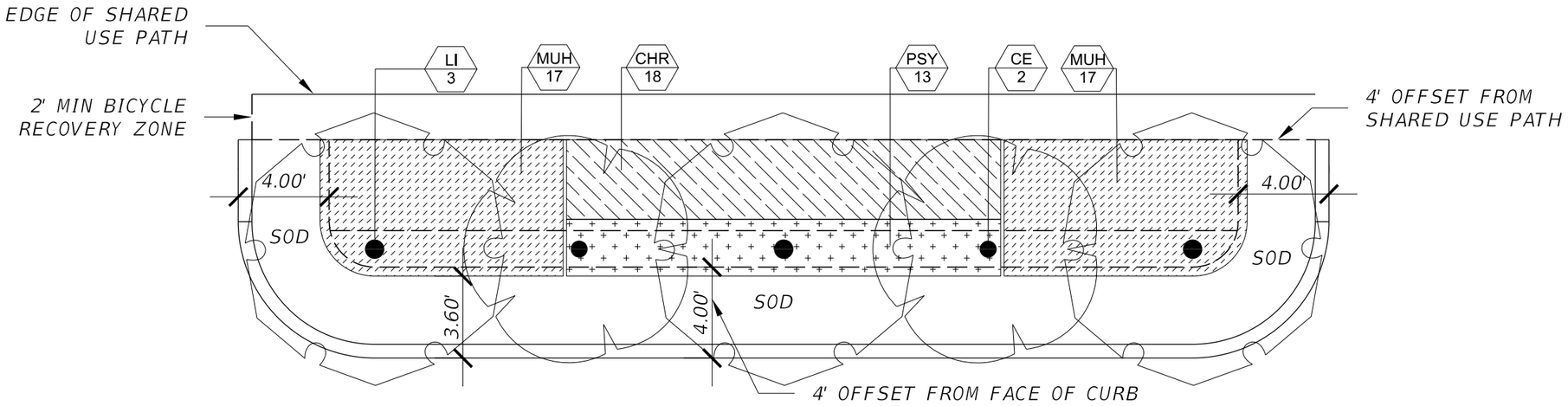
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OLD GERMANTOWN ROAD

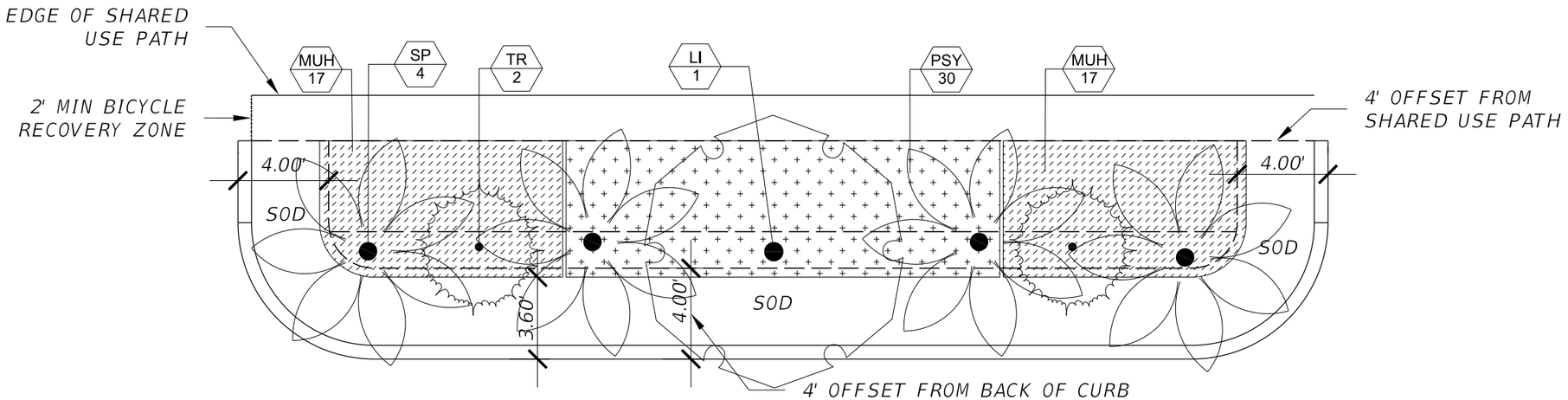
LANDSCAPE CHART

SHEET: 176
OF: 177

PROJECT NO. 444377-1



PLANTING BED TYPICAL A



PLANTING BED TYPICAL B

Tree Relocation Chart

TREE NO.	BOTANICAL NALE	COMMON NAME	DBH (IN.) FOR TREES/CTH (FT.) FOR PLAMS	HEIGHT (FT.) (APPROX.)	Condition	Notes
32	Sabal palmetto	Cabbage Palm	12	20	Good	(Relocated in Typical B)
35	Sabal palmetto	Cabbage Palm	17	26	Good	(Relocated in Typical B)
36	Sabal palmetto	Cabbage Palm	12	20	Fair	(Relocated in Typical B)
37	Sabal palmetto	Cabbage Palm	13	20	Good	(Relocated in Typical B)
38	Sabal palmetto	Cabbage Palm	10	20	Good	(Relocated in Typical B)
39	Sabal palmetto	Cabbage Palm	12	20	Good	(Relocated in Typical B)
44	Sabal palmetto	Cabbage Palm	12	22	Good	(Relocated in Typical B)
56	Sabal palmetto	Cabbage Palm	15	18	Good	(Relocated in Typical B)
85	Sabal palmetto	Cabbage Palm	14	16	Good	(Relocated in Typical B)
88	Conocarpus erectus	Silver Buttonwood	4	16	Good	(Relocated between Sta 37+20 to 37 + 40)
90	Conocarpus erectus	Silver Buttonwood	5	14	Good	Slight Lean, (Relocated between Sta 37+60 to 37 + 80)
92	Conocarpus erectus	Silver Buttonwood	5	18	Fair	Co-Dominant Leaders/Leaning - Minor, Impacting shared use path (Relocated between sta 38+00 to 38 + 10)
97	Sabal palmetto	Cabbage Palm	10	18	Fair	(Relocated in Typical B)
98	Sabal palmetto	Cabbage Palm	12	22	Good	(Relocated in Typical B)
99	Sabal palmetto	Cabbage Palm	12	26	Good	(Relocated in Typical B)
139	Sabal palmetto	Cabbage Palm	10	18	Good	(Relocated in Typical B)
140	Sabal palmetto	Cabbage Palm	6	18	Fair	(Relocated in Typical B)

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OLD GERMANTOWN ROAD
LANDSCAPE DETAILS

SHEET: 177
OF: 177
PROJECT NO. 444377-1

INDEX OF SUMMARY OF QUANTITIES

SHEET NO.	SHEET DESCRIPTION
SQ-1	SUMMARY OF LUMP SUM ITEMS
SQ-1	SUMMARY OF TEMPORARY TRAFFIC CONTROL PLAN ITEMS
SQ-2 - SQ-3	SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES
SQ-4	SUMMARY OF LITTER REMOVAL AND MOWING
SQ-4	SUMMARY OF MONITOR EXISTING STRUCTURES
SQ-5 - SQ-7	SUMMARY OF CLEARING AND GRUBBING & REMOVAL ITEMS
SQ-7	SUMMARY OF MAILBOXES
SQ-7	SUMMARY OF EARTHWORK
SQ-8 - SQ-9	SUMMARY OF PAVEMENT
SQ-10	SUMMARY OF UTILITY ADJUSTMENTS
SQ-11 - SQ-12	SUMMARY OF CURB AND GUTTER AND/OR TRAFFIC SEPARATORS
SQ-13 - SQ-15	SUMMARY OF SIDEWALK & DETECTABLE WARNINGS
SQ-16 - SQ-19	SUMMARY OF PERFORMANCE TURF
SQ-20	SUMMARY OF LANDSCAPE ITEMS

SUMMARY OF LUMP SUM ITEMS

PAY ITEM NO.	PAY ITEM DESCRIPTION	QUANTITY P	QUANTITY F	DESIGN NOTES	CONSTRUCTION REMARKS
0101 1	MOBILIZATION	1			

SUMMARY OF TEMPORARY TRAFFIC CONTROL PLAN ITEMS

PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	DURATION DAYS	QUANTITY P	TOTAL P	TOTAL P	TOTAL F	DESIGN NOTES	CONSTRUCTION REMARKS
0102 1	MAINTENANCE OF TRAFFIC	LS/DA				1		400 CONSTRUCTION DAYS	

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FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

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P.E# 61600

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OLD GERMANTOWN ROAD
SUMMARY OF QUANTITIES

SHEET: SQ-1
OF: SQ-20
PROJECT NO. 444377-1

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES

LOCATION	SIDE	AREA ID	SEDIMENT BARRIER		INLET PROTECTION SYSTEM		DESIGN NOTES	CONSTRUCTION REMARKS
			0104 10 3		0104 18			
STA. TO STA.			LF		EA			
			P	F	P	F		
10+44.69 to 11+22.92	RT		66.6					
11+58.18 to 19+00.99	LT		757.8					
11+82.95 to 12+66.48	RT		74.7					
12+98.60 to 18+97.53	RT		598.3					
19+48.92 to 36+63.82	LT		1714.9					
19+54.31 to 27+68.56	RT		814.3					
28+27.89 to 34+08.27	RT		580.4					
34+32.94 to 35+96.03	RT		163.1					
36+13.36 to 36+84.22	RT		70.9					
36+84.87 to 38+52.01	LT		167.1					
36+90.49 to 37+16.06	RT		25.6					
37+73.22 to 37+98.35	RT		25.1					
38+03.17 to 39+15.30	RT		112.1					
39+12.17 to 40+14.35	LT		102.2					
39+31.95 to 39+43.42	RT		11.5					
39+53.59 to 40+00.30	RT		46.7					
40+11.07 to 46+89.77	RT		678.7					
40+57.24 to 48+04.39	LT		748.2					
47+49.13 to 51+17.51	RT		368.4					
48+16.11 to 49+64.99	LT		148.9					
49+77.36 to 50+31.19	LT		53.8					
50+41.47 to 51+24.31	LT		83.6					
51+40.58 to 56+40.84	RT		500.3					
52+05.72 to 62+06.88	LT		995.3					
56+81.83 to 58+50.85	RT		169.0					
59+32.50 to 60+50.19	RT		123.6					
63+17.60 to 81+41.27	LT		1806.9					
63+26.36 to 68+70.97	RT		595.8					
69+43.84 to 72+01.37	RT		257.5					
72+30.08 to 73+68.07	RT		138.0					
74+02.03 to 79+45.10	RT		543.1					
79+66.15 to 80+00.23	RT		34.1					
80+12.24 to 80+68.67	RT		56.4					
80+93.94 to 82+97.82	RT		203.9					
81+66.94 to 86+16.46	LT		456.0					
85+88.16 to 89+51.50	LT		363.3					
86+18.95 to 89+57.28	RT		338.3					
89+85.07 to 96+35.45	RT		650.8					
89+90.45 to 93+73.13	LT		382.4					
94+02.26 to 99+14.37	LT		512.1					
96+63.00 to 99+71.33	RT		308.3					
10+71.82 to 10+80.56	LT				1			
10+73.50 to 10+86.44	RT				1			
10+73.51 to 10+83.07	LT				1			
12+24.60 to 12+38.80	RT				1			
13+12.39 to 13+22.06	RT				1			
SUB-TOTAL:			15848.0		5			
TOTAL:			15848		29			

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

PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:
MAJHARUL ALAM, PE
P.E# 61600

No.	Revisions	By	Date

CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

OLD GERMANTOWN ROAD
SUMMARY OF QUANTITIES

SHEET: SQ-2
OF: SQ-20
PROJECT NO. 444377-1

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES

LOCATION	SIDE	AREA ID	SEDIMENT BARRIER		INLET PROTECTION SYSTEM		DESIGN NOTES	CONSTRUCTION REMARKS
			0104 10 3		0104 18			
STA. TO STA.			LF		EA			
			P	F	P	F		
24+94.89 to 25+04.57	LT				1			
27+15.31 to 27+24.99	LT				1			
30+95.22 to 31+04.90	LT				1			
32+15.77 to 32+25.44	RT				1			
32+94.80 to 33+04.47	RT				1			
33+94.87 to 34+04.54	LT				1			
34+94.91 to 35+04.58	LT				1			
50+75.10 to 50+84.78	LT				1			
52+94.70 to 53+04.37	RT				1			
58+39.70 to 58+47.50	RT				1			
58+51.58 to 58+61.25	RT				1			
69+55.17 to 69+64.94	RT				1			
74+39.30 to 74+49.07	LT				1			
74+39.95 to 74+49.71	RT				1			
74+90.29 to 75+00.05	RT				1			
78+96.64 to 79+06.40	RT				1			
78+98.31 to 79+08.07	LT				1			
86+77.39 to 86+87.15	LT				1		SW 22ND AVE	
86+94.92 to 87+04.68	RT				1		SW 22ND AVE	
90+08.08 to 90+17.84	LT				1		SW 22ND AVE	
91+94.44 to 92+04.28	LT				1		SW 22ND AVE	
94+27.10 to 94+36.94	LT				1		SW 22ND AVE	
99+30.25 to 99+40.97	LT				1			
99+49.73 to 99+59.47	LT				1			
SUB-TOTAL:					24			

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OLD GERMANTOWN ROAD
SUMMARY OF QUANTITIES

SHEET: SQ-3
OF: SQ-20
PROJECT NO. 444377-1

SUMMARY OF LITTER REMOVAL AND MOWING

CONST. PHASE	LOCATION STA. TO STA.	SIDE	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL 0107 1							MOWING 0107 2							DESIGN NOTES	CONSTRUCTION REMARKS
					AREA ID	L	W	CYCLES	AREA AC/CYCLE	AREA TOTAL (AC) P	AREA TOTAL (AC) F	AREA ID	L	W	CYCLES	AREA AC/CYCLE	AREA TOTAL (AC) P	AREA TOTAL (AC) F		
I-II	10+21.16 to 86+14.69	LT	400	30		7593.53	30.0	13	5.230	67.986										
I-II	10+21.16 to 86+14.69	RT	400	30		7593.53	30.0	13	5.230	67.986										
I-II	85+77.54 to 99+52.66	LT	400	30		1375.12	16.0	13	0.505	6.566									SW 22ND AVE	
I-II	85+77.54 to 99+52.66	RT	400	30		1375.12	25.0	13	0.789	10.260									SW 22ND AVE	
I-II	10+21.16 to 86+14.69	LT	400	30									7593.53	30.0	13	5.230	67.986			
I-II	10+21.16 to 86+14.69	RT	400	30									7593.53	30.0	13	5.230	67.986			
I-II	85+77.54 to 99+52.66	LT	400	30									1375.12	16.0	13	0.505	6.566		SW 22ND AVE	
I-II	85+77.54 to 99+52.66	RT	400	30									1375.12	25.0	13	0.789	10.260		SW 22ND AVE	
								SUB-TOTAL:		152.798					SUB-TOTAL:		152.798			
								TOTAL:		152.80					TOTAL:		152.80			

SUMMARY OF MONITOR EXISTING STRUCTURES

SITE NO.	LOCATION ADDRESS AND/OR STA.	STRUCTURE USAGE	INSPECTION & SETTLEMENT MONITORING 0108 1 LS P	INSPECTION & SETTLEMENT MONITORING 0108 1 LS F	VIBRATION MONITORING 0108 2 LS P	VIBRATION MONITORING 0108 2 LS F	DESIGN NOTES	CONSTRUCTION REMARKS
		TOTAL:	1		1			

THIS LIST INCLUDES EXISTING STRUCTURES (AS DETERMINED BY THE DEPARTMENT) LOCATED OUTSIDE THE LIMITS SPECIFIED IN ARTICLE 108-2 OF THE FDOT SPECIFICATIONS THAT ARE REQUIRED TO BE MONITORED. THIS LIST SHOULD NOT BE CONSIDERED ALL INCLUSIVE AND DOES NOT CONTAIN EXISTING STRUCTURES TO BE MONITORED THAT ARE LOCATED WITHIN THE DISTANCES SPECIFIED IN ARTICLE 108-2.

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OLD GERMANTOWN ROAD
SUMMARY OF QUANTITIES

SHEET: SQ-4
OF: SQ-20
PROJECT NO. 444377-1

SUMMARY OF CLEARING AND GRUBBING & REMOVAL ITEMS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	UNITS	SECONDARY UNITS (IF LUMP SUM) AREA (AC)	QUANTITY P	QUANTITY F	TOTAL P	TOTAL F	DESIGN NOTES	CONSTRUCTION REMARKS
0110 1 1	CLEARING & GRUBBING	10+22.92 to 10+80.00	RT	191132			LS/AC		0.017		1		TOTAL 8.77 AC	
		10+33.88 to 10+80.00	RT	179283					0.004					
		10+80.00 to 11+42.54	LT	178795					0.006					
		10+80.00 to 11+23.23	RT	179140					0.025					
		11+39.86 to 17+85.57	LT	191696					0.154					
		11+60.46 to 19+02.01	LT	246964					0.240					
		11+83.07 to 12+64.75	RT	191153					0.029					
		12+98.59 to 18+97.66	RT	247038					0.442					
		17+90.18 to 18+93.02	LT	246949					0.023					
		19+46.92 to 36+64.45	LT	247499					0.487					
		19+54.25 to 27+68.38	RT	247235					0.642					
		19+56.97 to 25+65.07	LT	247087					0.142					
		25+70.03 to 36+59.35	LT	247401					0.259					
		28+28.56 to 34+08.57	RT	247310					0.411					
		34+30.30 to 35+96.11	RT	178891					0.112					
		36+13.23 to 37+16.62	RT	247377					0.064					
		36+84.13 to 38+54.09	LT	247645					0.097					
		37+73.16 to 39+16.16	RT	247733					0.091					
		39+16.74 to 40+16.83	LT	248736					0.061					
		39+30.57 to 39+43.91	RT	247768					0.004					
		39+51.61 to 40+00.78	RT	247779					0.018					
		40+07.99 to 46+99.13	RT	247896					0.460					
		40+56.62 to 51+31.91	LT	248652					0.440					
		40+64.21 to 45+66.72	LT	248605					0.116					
		45+71.57 to 51+18.46	LT	248542					0.078					
		47+48.23 to 51+18.23	RT	248035					0.230					
		51+40.58 to 56+40.94	RT	248097					0.271					
		51+63.24 to 62+06.39	LT	248369					0.641					
		56+81.60 to 58+56.79	RT	192559					0.007					
		56+88.44 to 58+43.91	RT	192537					0.023					
		59+24.71 to 60+40.51	RT	192583					0.041					
		63+18.52 to 81+41.41	LT	248312					1.019					
		63+38.69 to 68+89.35	RT	178398					0.377					
		69+20.78 to 72+04.09	RT	248224					0.172					
		72+30.08 to 73+70.21	RT	248261					0.065					
		73+99.26 to 79+47.10	RT	178338					0.280					
		79+63.03 to 80+00.54	RT	192627					0.015					
		80+12.22 to 80+66.34	RT	192637					0.017					
		80+12.23 to 80+66.34	RT	192647					0.003					
		81+65.65 to 86+16.20	LT	248283					0.169					
		81+87.02 to 82+83.27	RT	192653					0.006					
		81+87.02 to 82+83.27	RT	192659					0.006					
		85+94.28 to 89+53.29	LT	179165					0.125				SW 22ND AVE	
		86+19.11 to 89+58.05	RT	192693					0.148				SW 22ND AVE	
		89+84.17 to 96+36.40	RT	192719					0.291				SW 22ND AVE	
		89+88.88 to 93+74.66	LT	179199					0.129				SW 22ND AVE	
		94+00.83 to 99+39.19	LT	179243					0.182				SW 22ND AVE	
		96+61.75 to 99+70.05	RT	192775					0.010				SW 22ND AVE	
		96+62.70 to 98+52.74	RT	192755					0.078				SW 22ND AVE	
		98+57.59 to 99+68.61	RT	192794					0.040				SW 22ND AVE	
0110 4 10	REMOVAL OF EXISTING CONCRETE	11+58.07 to 18+94.85	LT	186581			SY		420.9		3507			

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WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:
MAJHARUL ALAM, PE
P.E# 61600

No.	Revisions	By	Date

CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

OLD GERMANTOWN ROAD
SUMMARY OF QUANTITIES

SHEET: SQ-5
OF: SQ-20
PROJECT NO. 444377-1

SUMMARY OF CLEARING AND GRUBBING & REMOVAL ITEMS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.			SIDE	AREA ID	LENGTH	WIDTH	UNITS	SECONDARY UNITS (IF LUMP SUM) AREA (AC)	QUANTITY P	QUANTITY F	TOTAL P	TOTAL F	DESIGN NOTES	CONSTRUCTION REMARKS
0110 4 10	REMOVAL OF EXISTING CONCRETE (CONT'D)	18+77.66	to	18+97.50	RT	248779			SY		4.5					
		19+53.41	to	36+60.37	LT	186731					925.9					
		19+54.36	to	19+73.56	RT	248768					4.4					
		34+02.38	to	34+34.45	RT	251839					8.8					
		34+06.38	to	34+30.45	RT	251819					32.1					
		34+06.38	to	34+31.41	RT	251826					13.4					
		35+89.97	to	36+20.10	RT	192806					14.1					
		35+95.41	to	36+14.16	RT	192811					34.1					
		36+92.03	to	37+12.89	RT	248795					3.3					
		36+92.21	to	38+57.99	LT	184749					88.3					
		37+73.16	to	37+93.06	RT	248802					3.4					
		38+38.92	to	38+54.12	LT	248819					3.0					
		39+15.27	to	39+41.20	LT	248832					3.7					
		39+86.24	to	40+16.83	LT	248839					5.2					
		39+14.16	to	40+07.53	LT	191553					44.6					
		40+54.88	to	40+61.99	LT	248848					1.9					
		40+61.05	to	51+33.83	LT	186898					582.3					
		40+63.06	to	40+80.62	LT	248859					2.3					
		48+01.32	to	48+18.16	LT	191563					10.2					
		49+54.61	to	49+83.72	LT	191583					15.3					
		49+61.25	to	49+80.28	LT	191576					5.7					
		49+62.32	to	49+79.40	LT	191570					8.3					
		50+25.87	to	50+47.87	LT	191591					11.2					
		50+30.56	to	50+42.26	LT	191597					3.6					
		50+30.70	to	50+42.03	LT	191605					6					
		51+69.26	to	52+13.33	LT	186248					30					
		54+85.21	to	55+01.86	RT	191542					8					
		55+13.29	to	56+42.48	RT	183382					68					
		56+84.25	to	58+52.79	RT	186302					116					
		79+93.18	to	82+83.27	RT	184826					190					
		86+06.80	to	86+13.70	LT	191614					3					
		86+18.72	to	89+58.46	RT	183217					183				SW 22ND AVE	
		89+83.82	to	96+36.47	RT	186537					353				SW 22ND AVE	
		96+61.75	to	99+70.35	RT	183528					185				SW 22ND AVE	
		97+68.16	to	98+68.53	LT	258436					115				SW 22ND AVE	
0110 22	TREE ROOT AND BRANCH PRUNNING	18+40.00	to	18+80.00	RT				EA		1		59		Tree 40	
		20+00.00	to	20+40.00	RT						1				Tree 43	
		26+60.00	to	27+00.00	RT						2				Tree 49, 50	
		26+60.00	to	27+40.00	RT						2				Tree 54, 55	
		31+20.00	to	32+60.00	LT						3				Tree 57-59	
		28+40.00	to	29+60.00	RT						5				Tree 60-62, 65-66	
		29+60.00	to	30+25.00	RT						2				Tree 69-70	
		30+60.00	to	32+20.00	RT						6				Tree 73-78	
		32+30.00	to	34+60.00	RT						5				Tree 80-84	
		38+00.00	to	39+20.00	RT						4				Tree 93-96	
		40+10.00	to	40+50.00	RT						1				Tree 100	
		41+00.00	to	40+50.00	LT						1				Tree 101	
		47+50.00	to	48+00.00	LT						1				Tree 109	
		48+80.00	to	49+00.00	LT						1				Tree 113	
		50+00.00	to	50+95.00	LT						3				Tree 115-117	
		50+20.00	to	50+60.00	RT						2				Tree 119-120	

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OLD GERMANTOWN ROAD
SUMMARY OF QUANTITIES

SHEET: SQ-6
OF: SQ-20
PROJECT NO. 444377-1

SUMMARY OF CLEARING AND GRUBBING & REMOVAL ITEMS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	UNITS	SECONDARY UNITS (IF LUMP SUM) AREA (AC)	QUANTITY P	QUANTITY F	TOTAL P	TOTAL F	DESIGN NOTES	CONSTRUCTION REMARKS
0110 22	TREE ROOT AND BRANCH PRUNNING (CONT'D)	52+20.00 to 53+40.00	LT				EA		2				TREE 122-123	
		53+40.00 to 55+00.00	RT						6.0				TREE 125,127,129,130-132	
		97+00.00 to 97+80.00	RT						2.0				TREE 150-151	
		95+90.00 to 96+20.00	RT						1.0				TREE 154	
		93+00.00 to 95+10.00	RT						5.0				TREE 160-164	
		89+10.00 to 89+60.00	RT						1.0				TREE 166	
		86+40.00 to 88+00.00	RT						2.0				TREE 168-169	
110 23	TREE REMOVAL	26+20.00 to 26+40.00	RT				EA		1		10		TREE 47	
		31+20.00 to 31+60	RT						1				TREE 79	
		47+60.00 to 48+10.00	LT						3				TREE 108,110-111	
		49+80.00 to 50+00.00	LT						1				TREE 114	
		50+80.00 to 51+00.00	LT						1				TREE 118	
		52+40.00 to 55+00.00	RT						3				TREE 128,134, 137	

SUMMARY OF MAILBOXES

STATION	SIDE	QUANTITY 0110 7 1 P	QUANTITY 0110 7 1 F	DESIGN NOTES	CONSTRUCTION REMARKS
36+25.00	RT	1		DRIVEWAY	
36+70.00	RT	1		DRIVEWAY	
SUB-TOTAL:		2			
TOTAL:		2			

SUMMARY OF EARTHWORK

PAY ITEM NO.	PAY ITEM DESCRIPTION	CY P	CY F	DESIGN NOTES	CONSTRUCTION REMARKS
0120 1	REGULAR EXCAVATION				
	STA. 10+22.93 TO STA. 86+14.20	5423.0			
	STA. 85+94.87 TO STA. 99+79.54	1486.2		SW 22ND AVE	
	TOTAL REGULAR EXCAVATION	6909.2			
0120 6	EMBANKMENT				
	STA. 10+22.93 TO STA. 86+14.20	815.7			
	STA. 85+94.87 TO STA. 99+79.54	171.7		SW 22ND AVE	
	TOTAL EMBANKMENT	987.4			

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PROPEL
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OLD GERMANTOWN ROAD
SUMMARY OF QUANTITIES

SHEET: SQ-7
OF: SQ-20
PROJECT NO. 444377-1

SUMMARY OF PAVEMENT

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	LENGTH	WIDTH	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.	DESCRIPTION						P	F	P	F		
0160 4 A	TYPE B STABILIZATION (12")	10+25.77 to 12+85.67		LT	81440			SY	122.8		6370			
		10+33.88 to 11+19.79		RT	81127				35.3					
		11+93.90 to 12+55.77		RT	74797				24.8					
		13+03.71 to 18+92.19		RT	241683				262.0					
		13+14.92 to 16+84.18		LT	81171				161.2					
		17+15.74 to 18+92.10		LT	70391				74.5					
		19+57.06 to 21+69.93		LT	70415				90.4					
		19+59.44 to 27+63.07		RT	241893				356.3					
		22+00.00 to 26+24.96		LT	70435				185.6					
		26+55.36 to 30+35.05		LT	70462				165.6					
		28+38.82 to 34+06.38		RT	241963				245.8					
		30+65.05 to 33+34.96		LT	70488				117.0					
		33+64.95 to 36+57.35		LT	74855				126.6					
		34+30.45 to 35+94.04		RT	77994				66.6					
		36+14.68 to 36+75.01		RT	70814				24.7					
		36+97.33 to 38+49.54		LT	242843				65.1					
		37+79.17 to 39+10.61		RT	242084				55.4					
		39+28.07 to 40+02.55		LT	242948				29.2					
		39+51.91 to 39+94.07		RT	242122				14.7					
		40+08.57 to 46+85.53		RT	242136				298.3					
		40+68.15 to 42+25.69		LT	242981				67.1					
		42+55.92 to 45+24.28		LT	70564				116.3					
		45+55.00 to 48+00.06		LT	243044				106.5					
		47+65.77 to 51+05.58		RT	242357				147.0					
		48+18.71 to 49+58.18		LT	243081				60.4					
		49+80.70 to 50+28.58		LT	243133				19.8					
		50+45.26 to 51+23.25		LT	243145				107.6					
		51+47.89 to 51+86.80		RT	242456				16.0					
		51+72.23 to 51+86.80		LT	243160				6.2					
		51+98.80 to 54+84.97		LT	71137				125.6					
		51+98.80 to 54+96.85		RT	242569				131.5					
		55+15.07 to 56+74.42		LT	71184				67.8					
		55+15.55 to 56+32.25		RT	242538				48.9					
		57+05.11 to 58+70.92		LT	243166				67.0					
		59+67.40 to 61+24.02		LT	242639				59.5					
		60+22.81 to 61+86.15		RT	71273				69.9					
		63+76.45 to 68+71.97		RT	242699				217.9					
		64+22.91 to 66+85.04		LT	242729				114.9					
		67+15.01 to 70+85.04		LT	71330				161.2					
		69+42.01 to 71+99.57		RT	242752				107.1					
		71+15.27 to 81+24.45		LT	243195				564.3					
		72+36.80 to 73+52.71		RT	242817				48.2					
		74+16.01 to 77+73.80		RT	81359				153.0					
		78+32.23 to 79+38.90		RT	81420				43.3					
		79+76.45 to 79+99.64		RT	81217				7.7					
		80+12.85 to 80+63.02		RT	81224				20.9					
		81+05.61 to 82+00.00		RT	252049				4.6					
		81+79.76 to 82+00.00		LT	243244				40.5					
		85+77.54 to 89+46.22		LT	243474				162.6				SW 22ND AVE	
		86+27.01 to 89+55.30		RT	243258				145.1				SW 22ND AVE	

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PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:
MAJHARUL ALAM, PE
P.E# 61600

No.	Revisions	By	Date

CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

OLD GERMANTOWN ROAD
SUMMARY OF QUANTITIES

SHEET: SQ-8
OF: SQ-20
PROJECT NO. 444377-1

SUMMARY OF PAVEMENT

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	LENGTH	WIDTH	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.	DESCRIPTION						P	F	P	F		
0160 4 A	TYPE B STABILIZATION (12") (CONT'D)	89+87.08 to 96+33.54		RT	243334				288.6				SW 22ND AVE	
		89+95.24 to 93+70.08		LT	243535			SY	164.6				SW 22ND AVE	
		94+05.12 to 99+59.75		LT	243424				247.1				SW 22ND AVE	
		96+65.50 to 99+76.44		RT	243376				138.7				SW 22ND AVE	
0160 4 B	TYPE B STABILIZATION (6")	18+80.21 to 19+02.01		LT	85195			SY	9.9		103			
		19+46.92 to 19+69.10		LT	85200				10.8					
		47+49.95 to 47+80.32		RT	243570				19.4					
		50+95.24 to 51+17.84		RT	243583				10.6					
		59+33.67 to 60+12.71		LT	85522				27.4					
		63+38.90 to 63+55.41		RT	85603				8.2					
		89+33.61 to 89+54.84		LT	243602				8.6				SW 22ND AVE	
		89+87.25 to 90+08.31		LT	243609				8.5				SW 22ND AVE	
285706	OPTIONAL BASE, BASE GROUP 06	18+80.21 to 19+02.01		LT	97328			SY	9.9		284			
		19+46.92 to 19+69.10		LT	97333				10.8					
		50+56.54 to 51+23.25		LT/RT	252155				77.6					
		59+33.67 to 60+12.71		LT	97350			SY	27.4					
		63+38.90 to 63+55.41		RT	97343				8.2					
		71+83.97 to 72+04.07		RT	243622				12.1					
		74+19.63 to 74+78.76		LT	252191				65.7					
		78+78.40 to 79+28.33		LT	252223				55.3					
		89+33.61 to 89+54.84		LT	243636				8.6				SW 22ND AVE	
		89+87.25 to 90+08.31		LT	243649				8.5				SW 22ND AVE	
0327 70 4	MILLING EXIST ASPH PAVT, 3" AVG DEPTH	10+14.79 to 61+86.38		LT/RT	253046			SY	15462.4		21651			
		63+38.93 to 71+56.47		LT/RT	245507				2380.9					
		71+92.86 to 72+50.69		RT	245697				92.0					
		81+21.87 to 81+85.46		LT	245703				77.2					
		85+77.54 to 99+52.66		LT/RT	245592				3638.0				SW 22ND AVE	
0334 1 53	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC C, PG 76-22	10+14.79 to 61+86.38		LT/RT	257202			TN	2556.94		3595.3		330 LBS/SY	
		59+33.67 to 60+12.71		LT	129593				4.50				330 LBS/SY	
		63+38.90 to 63+55.41		RT	122770				1.36				330 LBS/SY	
		63+38.93 to 71+56.47		LT/RT	246525				392.84				330 LBS/SY	
		71+83.97 to 72+04.07		RT	246765				1.36				330 LBS/SY	
		71+92.86 to 72+50.69		RT	246715				15.19				330 LBS/SY	
		81+21.87 to 81+85.46		LT	246721				12.74				330 LBS/SY	
		85+77.54 to 99+52.66		LT/RT	246610				600.27				330 LBS/SY (SW 22ND AVE)	
		89+33.62 to 89+54.84		LT	246777				0.98				330 LBS/SY (SW 22ND AVE)	
		89+87.25 to 90+08.31		LT	246785				0.97				330 LBS/SY (SW 22ND AVE)	
		99+47.94 to 99+88.21		LT/RT					8.05				OVERBUILD (SW 22ND AVE)	

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WEST PALM BEACH, FLORIDA 33411
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Seal:
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P.E# 61600

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OLD GERMANTOWN ROAD
SUMMARY OF QUANTITIES

SHEET: SQ-9
OF: SQ-20
PROJECT NO. 444377-1

SUMMARY OF UTILITY ADJUSTMENTS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STATION	SIDE	UNIT	QUANTITY P	QUANTITY F	TOTAL P	TOTAL F	DESIGN NOTES	CONSTRUCTION REMARKS
0425 5 1	MANHOLE, ADJUST, UTILITIES	13+23.70	RT	EA	1		10			
		15+35.09	RT	EA	1					
		27+23.34	RT	EA	1					
		45+80.64	RT	EA	1					
		46+48.46	RT	EA	1					
		86+81.23	RT	EA	1				SW 22ND AVE	
		86+81.51	LT	EA	1				SW 22ND AVE	
		89+54.64	LT	EA	1				SW 22ND AVE	
		93+61.92	LT	EA	1				SW 22ND AVE	
		96+33.43	LT	EA	1				SW 22ND AVE	
0425 6	VALVE BOXES, ADJUST	25+96.97	LT	EA	1		31			
		27+71.09	LT	EA	1					
		28+35.00	RT	EA	1					
		28+42.00	RT	EA	1					
		28+45.00	RT	EA	1					
		29+92.00	RT	EA	1					
		36+77.00	RT	EA	1					
		37+97.00	RT	EA	1					
		38+91.00	LT	EA	1					
		41+12.00	LT	EA	1					
		46+90.00	LT	EA	1					
		46+78.00	RT	EA	1					
		47+16.05	LT	EA	1					
		47+23.00	RT	EA	1					
		48+02.00	RT	EA	1					
		51+06.66	RT	EA	1					
		51+77.12	RT	EA	1					
		51+83.20	RT	EA	1					
		56+33.00	RT	EA	1					
		72+84.18	LT	EA	1					
		72+84.18	LT	EA	1					
		77+78.45	LT	EA	1					
		78+46.00	RT	EA	1					
		78+92.06	LT	EA	1					
		78+92.06	LT	EA	1					
		78+92.53	LT	EA	1					
		78+92.60	LT	EA	1					
		79+89.60	RT	EA	1					
		90+17.61	RT	EA	1				SW 22ND AVE	
		94+47.32	RT	EA	1				SW 22ND AVE	
		96+22.81	RT	EA	1				SW 22ND AVE	
0425 6 1	METER BOXES, ADJUST	21+68.48	RT	EA	1		1			
1644116 08	FIRE HYDRANT, STANDARD, F&I, 3 WAY, 2 HOSE, 1 PUMBER, 6"	13+39.76	RT	EA	1		3			
		45+95.80	LT	EA	1					
		56+30.00	RT	EA	1					
1644900	FIRE HYDRANT, REMOVE	13+39.76	RT	EA	1		3			
		45+95.80	LT	EA	1					
		56+30.00	RT	EA	1					

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Seal:
MAJHARUL ALAM, PE
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OLD GERMANTOWN ROAD
SUMMARY OF QUANTITIES

SHEET: SQ-10
OF: SQ-20
PROJECT NO. 444377-1

SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.	SIDE	AREA ID	UNIT	QUANTITY GROSS LENGTH	DEDUCTIONS TYPE	DEDUCTIONS LENGTH	NET LENGTH P	NET LENGTH F	TOTAL P	TOTAL F	DESIGN NOTES	CONSTRUCTION REMARKS
0520 1 10	CONCRETE CURB & GUTTER, TYPE F	38+52.46 to 38+53.12	LT		LF	3.1			3.1		207			
		39+16.85 to 39+18.00	LT			3.2			3.2					
		57+67.70 to 57+67.70	RT			176.2			176.2					
		85+95.57 to 86+16.20	LT			24.0			24.0					
0520 2 4	CONCRETE CURB, TYPE D	10+12.66 to 10+51.16	RT		LF	50.5			50.5		2291		HEADER CURB	
		12+80.80 to 13+19.79	LT			51.5			51.5					
		16+80.00 to 17+20.00	LT			51.7			51.7					
		18+77.66 to 18+96.37	RT			38.5			38.5				HEADER CURB	
		18+80.21 to 18+99.25	LT			29.0			29.0				HEADER CURB	
		19+49.92 to 19+69.08	LT			30.0			30.0				HEADER CURB	
		19+55.46 to 19+73.56	RT			37.9			37.9				HEADER CURB	
		21+85.40 to 21+85.40	LT			51.7			51.7					
		26+40.45 to 26+40.45	LT			51.7			51.7					
		27+48.64 to 27+67.39	RT			37.1			37.1				HEADER CURB	
		28+29.54 to 28+49.54	RT			35.7			35.7				HEADER CURB	
		30+50.44 to 30+50.44	LT			51.7			51.7					
		33+50.40 to 33+50.40	LT			51.7			51.7					
		36+47.87 to 36+63.37	LT			33.7			33.7				HEADER CURB	
		36+89.41 to 37+11.40	LT			31.5			31.5				HEADER CURB	
		36+92.03 to 37+11.89	RT			28.9			28.9				HEADER CURB	
		37+74.16 to 37+93.06	RT			29.9			29.9				HEADER CURB	
		38+38.92 to 38+53.12	LT			22.6			22.6				HEADER CURB	
		39+17.99 to 39+41.20	LT			28.2			28.2				HEADER CURB	
		39+86.26 to 40+15.83	LT			46.0			46.0				HEADER CURB	
		40+56.73 to 40+80.62	LT			40.7			40.7				HEADER CURB	
		42+41.34 to 42+41.34	LT			51.7			51.7					
		45+40.42 to 45+40.42	LT			51.7			51.7					
		46+74.12 to 46+98.05	RT			39.4			39.4				HEADER CURB	
		47+52.79 to 47+80.32	RT			55.4			55.4				HEADER CURB	
		50+95.24 to 51+14.64	RT			29.6			29.6				HEADER CURB	
		51+10.53 to 51+29.82	LT			31.5			31.5				HEADER CURB	
		51+41.58 to 51+60.51	RT			29.8			29.8				HEADER CURB	
		51+66.32 to 51+85.10	LT			28.0			28.0				HEADER CURB	
		55+00.42 to 55+00.42	LT			50.9			50.9					
		56+23.53 to 56+41.63	RT			26.7			26.7				HEADER CURB	
		56+90.39 to 56+90.39	LT			51.9			51.9					
		58+02.61 to 59+53.57	LT			149.8			149.8					
		61+24.01 to 62+06.39	LT			82.4			82.4					
		63+18.52 to 63+58.44	LT			40.3			40.3					
		63+18.52 to 63+58.44	LT			40.3			40.3					
		66+99.59 to 66+99.59	LT			51.7			51.7					
		70+99.67 to 70+99.67	LT			51.9			51.9					
		71+83.97 to 72+01.08	RT			33.9			33.9				HEADER CURB	
		72+31.13 to 72+54.20	RT			35.7			35.7				HEADER CURB	
		81+21.56 to 81+40.41	LT			31.2			31.2				HEADER CURB	
		81+66.65 to 81+85.57	LT			31.2			31.2				HEADER CURB	
		83+03.52 to 84+40.00	LT			136.7			136.7					
		84+40.00 to 85+41.12	LT			136.7			103.8					
		89+33.61 to 89+51.51	LT			23.4			23.4				HEADER CURB (SW 22ND AVE)	
		89+38.17 to 89+57.43	RT			33.8			33.8				HEADER CURB (SW 22ND AVE)	
		89+84.87 to 90+04.46	RT			34.4			34.4				HEADER CURB (SW 22ND AVE)	

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OLD GERMANTOWN ROAD
SUMMARY OF QUANTITIES

SHEET: SQ-11
OF: SQ-20
PROJECT NO. 444377-1

SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.	SIDE	AREA ID	UNIT	QUANTITY GROSS LENGTH	DEDUCTIONS TYPE	DEDUCTIONS LENGTH	NET LENGTH P	NET LENGTH F	TOTAL P	TOTAL F	DESIGN NOTES	CONSTRUCTION REMARKS
0520 2 4	CONCRETE CURB, TYPE D (CONT'D)	89+84.87 to 90+04.46	RT			34.4			34.4				HEADER CURB (SW 22ND AVE)	
		89+90.44 to 90+08.31	LT		LF	23.2			23.2				HEADER CURB (SW 22ND AVE)	
		93+59.45 to 93+73.61	LT			21.1			21.1				HEADER CURB (SW 22ND AVE)	
		94+01.86 to 94+15.85	LT			21.1			21.1				HEADER CURB (SW 22ND AVE)	
		96+16.88 to 96+35.47	RT			33.4			33.4				HEADER CURB (SW 22ND AVE)	
		96+62.73 to 96+83.11	RT			34.7			34.7				HEADER CURB (SW 22ND AVE)	

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PROPEL
PROPEL ENGINEERING, INC.
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OLD GERMANTOWN ROAD
SUMMARY OF QUANTITIES

SHEET: SQ-12
OF: SQ-20
PROJECT NO. 444377-1

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS

LOCATION	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4"		CONC SIDEWALK 6"		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
					0522 1		0522 2		0527 2			
STA. TO STA.					SY		SY		SF			
					P	F	P	F	P	F		
84+39.90 to 85+95.26	LT	206439			92.5							
85+94.39 to 89+50.63	LT	241228			236.1						SW 22ND AVE	
86+06.80 to 86+13.70	LT	218291			3.1							
89+91.00 to 93+72.92	LT	241248			252.4						SW 22ND AVE	
94+02.33 to 99+57.33	LT	258306			371.0						SW 22ND AVE	
10+23.03 to 11+23.16	RT	206216					133.7					
11+58.01 to 18+98.98	LT	205066					971.5					
11+83.07 to 12+64.75	RT	206247					91.0					
12+99.39 to 18+96.03	RT	240505					659.3					
19+50.13 to 36+64.20	LT	205111					2280.7					
19+55.73 to 27+67.01	RT	240491					898.7					
28+30.91 to 34+06.38	RT	240456					762.2					
34+02.38 to 34+34.45	RT	205686					8.8					
34+03.33 to 34+33.00	RT	205699					47.7					
34+30.30 to 35+96.09	RT	205209					220.0					
35+89.75 to 36+19.24	RT	204886					46.8					
36+13.24 to 37+10.60	RT	240446					125.4					
36+71.36 to 36+91.36	RT	204796					7.7					
36+80.65 to 36+90.27	RT	248981					4.9					
36+90.19 to 38+53.12	LT	249141					184.7					
37+74.95 to 39+12.06	RT	241584					126.2					
39+06.61 to 39+55.91	RT	248988					16.6					
39+08.28 to 39+54.91	RT	249010					38.6					
39+13.74 to 39+32.57	RT	249023					9.4					
39+18.00 to 40+12.01	LT	249159					95.4					
39+38.47 to 39+52.25	RT	249029					6.8					
39+52.34 to 39+95.04	RT	241555					35.5					
39+90.07 to 40+12.57	RT	249056					8.3					
39+92.00 to 40+14.10	RT	249039					17.1					
39+94.87 to 40+08.12	RT	249047					6.7					
40+11.57 to 46+93.51	RT	241530					887.8					
40+61.76 to 49+62.32	LT	241468					1110.4					
47+54.34 to 51+13.31	RT	249069					470.0					
47+96.93 to 48+21.81	LT	241512					11.7					
48+02.46 to 48+17.41	LT	241506					7.5					
49+55.58 to 49+83.40	LT	204850					40.1					
49+79.40 to 50+30.70	LT	204712					45.3					
50+26.11 to 50+47.88	LT	241524					11.7					
50+30.70 to 50+42.06	LT	241519					6.1					
50+42.06 to 51+28.98	LT	258138					76.7					
51+42.04 to 56+39.41	RT	249124					545.4					
51+67.16 to 62+06.39	LT	258149					1163.1					
56+85.64 to 58+46.89	RT	204724					163.0					
61+24.01 to 61+40.19	LT	249196					4.4					
63+18.52 to 81+39.44	LT	240874					2360.1					
63+36.75 to 68+84.12	RT	241160					725.4					
63+56.54 to 63+77.63	RT	240898					8.4					
				SUB-TOTAL:	955.1		14440.8					
				TOTAL:	955		17604		1310			

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P.E# 61600

No.	Revisions	By	Date

CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

OLD GERMANTOWN ROAD
SUMMARY OF QUANTITIES

SHEET: SQ-13
OF: SQ-20
PROJECT NO. 444377-1

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS

LOCATION	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4"		CONC SIDEWALK 6"		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
					0522 1		0522 2		0527 2			
STA. TO STA.					SY		SY		SF			
					P	F	P	F	P	F		
64+10.47 to 64+22.91	LT	249201					3.2					
69+28.01 to 72+01.43	RT	240993					301.0					
72+31.80 to 73+67.18	RT	258209					141.7					
74+02.19 to 79+44.60	RT	258235					595.1					
79+66.27 to 80+00.22	RT	258249					33.3					
80+12.23 to 82+83.27	RT	258265					277.8					
81+67.71 to 84+40.00	LT	240609					357.7					
85+94.54 to 86+11.96	LT	218278					9.2					
86+02.00 to 86+09.52	LT	218273					1.5					
86+19.99 to 89+57.26	RT	258120					372.1				SW 22ND AVE	
89+85.11 to 96+35.45	RT	258103					722.5				SW 22ND AVE	
96+63.12 to 99+79.62	RT	258131					347.7				SW 22ND AVE	
10+23.66 to 10+35.94	RT	258327							24.2			
10+31.48 to 10+35.07	LT	249213							7.7			
11+17.72 to 11+23.16	RT	208087							24.5			
11+83.07 to 11+98.97	RT	208092							36.3			
12+51.97 to 12+64.75	RT	208097							29.8			
12+99.39 to 13+06.14	RT	208102							21.7			
18+88.55 to 18+98.98	LT	208183							29.2			
18+89.80 to 18+96.03	RT	249218							21.8			
19+50.13 to 19+60.63	LT	208188							29.3			
19+55.73 to 19+62.02	RT	249224							21.9			
27+60.44 to 27+67.01	RT	249229							22.1			
28+30.91 to 28+42.98	RT	249234							30.8			
36+53.81 to 36+64.20	LT	208193							29.1			
36+90.19 to 37+00.71	LT	208198							29.0			
36+97.43 to 37+10.60	RT	249239							31.7			
37+74.95 to 37+81.54	RT	249247							17.3			
38+46.64 to 38+53.12	LT	249252							22.2			
39+18.00 to 39+32.53	LT	249259							30.1			
39+98.46 to 40+12.01	LT	249265							29.0			
40+61.76 to 40+71.54	LT	249270							24.8			
46+82.10 to 46+93.36	RT	249277							29.8			
47+54.34 to 47+70.40	RT	249285							35.2			
51+01.76 to 51+13.31	RT	249290							30.1			
51+20.87 to 51+28.98	LT	258333							19.6			
51+42.04 to 51+51.14	RT	249304							24.2			
51+67.16 to 51+75.38	LT	258338							19.7			
51+86.80 to 51+98.80	RT	208226							24.0			
51+86.80 to 51+98.80	LT	258343							24.0			
56+27.54 to 56+39.94	RT	258348							27.8			
56+85.64 to 56+90.21	RT	249320							11.9			
58+39.39 to 58+46.89	RT	249327							12.2			
59+26.42 to 59+33.28	RT	258356							28.9			
68+66.75 to 68+84.12	RT	208231							37.4			
69+28.01 to 69+46.30	RT	208236							38.6			
71+97.28 to 72+01.43	RT	249332							24.8			
72+31.80 to 72+39.21	RT	249337							26.2			
SUB-TOTAL:							3162.8		926.9			

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

PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:
MAJHARUL ALAM, PE
P.E# 61600

No.	Revisions	By	Date

CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

OLD GERMANTOWN ROAD
SUMMARY OF QUANTITIES

SHEET:SQ-14
OF: SQ-20
PROJECT NO. 444377-1

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4" 0522 1 SY P	CONC SIDEWALK 4" 0522 1 SY F	CONC SIDEWALK 6" 0522 2 SY P	CONC SIDEWALK 6" 0522 2 SY F	DETECTABLE WARNINGS 0527 2 SF P	DETECTABLE WARNINGS 0527 2 SF F	DESIGN NOTES	CONSTRUCTION REMARKS
73+52.17 to 73+67.18	RT	258362							34.0			
74+02.19 to 74+16.69	RT	258368							33.5			
79+37.42 to 79+44.60	RT	258373							25.7			
79+66.27 to 79+77.63	RT	258380							30.9			
81+21.54 to 81+39.44	LT	249344							39.9			
81+67.71 to 81+85.59	LT	249361							39.3			
86+02.00 to 86+09.52	LT	218296							13.5			
86+19.99 to 86+31.08	RT	208320							26.1			
89+42.98 to 89+50.62	LT	249381							15.7		SW 22ND AVE	
89+53.08 to 89+57.26	RT	249367							20.6		SW 22ND AVE	
89+85.11 to 89+89.28	RT	249374							20.5		SW 22ND AVE	
89+91.00 to 89+98.32	LT	249390							15.2		SW 22ND AVE	
93+67.42 to 93+72.92	LT	249395							13.6		SW 22ND AVE	
94+02.33 to 94+07.83	LT	249402							13.7		SW 22ND AVE	
96+31.43 to 96+35.45	RT	249410							20.6		SW 22ND AVE	
96+63.12 to 96+67.69	RT	249418							20.6		SW 22ND AVE	
SUB-TOTAL:									383.4			

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OLD GERMANTOWN ROAD
SUMMARY OF QUANTITIES

SHEET: SQ-15
OF: SQ-20
PROJECT NO. 444377-1

SUMMARY OF PERFORMANCE TURF

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	PERFORMANCE TURF (SOD) 0570 1 2 SY P	PERFORMANCE TURF (SOD) 0570 1 2 SY F	DESIGN NOTES	CONSTRUCTION REMARKS
10+80.00 to 11+15.37	RT	230895			41.2			
10+80.00 to 11+19.79	RT	230236			16.8			
10+80.00 to 12+85.67	LT	230215			93.6			
11+42.54 to 12+80.94	LT	230914			133.0			
11+60.50 to 19+01.23	LT	230927			754.1			
11+93.90 to 12+55.77	RT	226961			24.8			
12+01.59 to 12+48.20	RT	228405			16.2			
12+98.25 to 18+97.65	RT	249425			539.8			
13+03.71 to 18+92.37	RT	249530			265.0			
13+08.57 to 18+83.87	RT	228449			703.8			
13+14.92 to 16+84.18	LT	230192			161.5			
13+19.72 to 16+80.08	LT	230969			174.5			
17+15.74 to 18+92.10	LT	230168			74.6			
17+19.91 to 18+88.78	LT	230949			72.9			
19+48.92 to 36+64.40	LT	231081			1493.8			
19+54.25 to 27+68.39	RT	249628			1039.4			
19+57.06 to 21+69.93	LT	231871			90.6			
19+59.03 to 21+65.08	LT	231120			72.0			
19+59.44 to 27+63.07	RT	249724			362.5			
19+69.48 to 27+51.29	RT	228350			853.1			
22+00.00 to 26+24.96	LT	232680			185.9			
22+04.89 to 24+97.79	LT	230990			85.3			
25+02.21 to 26+20.13	LT	231004			35.8			
26+55.36 to 30+35.05	LT	232707			165.9			
26+59.93 to 27+17.79	LT	231139			23.8			
27+17.79 to 30+30.13	LT	231151			131.8			
28+27.94 to 34+08.57	RT	249935			764.9			
28+32.64 to 28+59.08	RT	249918			17.6			
28+33.42 to 28+58.77	RT	249928			4.7			
28+38.82 to 34+03.33	RT	249801			246.3			
28+53.65 to 32+74.94	RT	228301			183.7			
30+65.05 to 33+34.96	LT	231917			117.2			
30+69.97 to 33+30.08	LT	231175			149.8			
32+74.90 to 33+63.21	RT	228282			17.6			
33+64.95 to 36+57.35	LT	231933			126.8			
33+69.87 to 36+49.32	LT	231199			177.4			
34+30.45 to 35+95.93	RT	230754			254.9			
34+33.07 to 35+94.04	RT	227268			66.6			
34+77.71 to 35+95.41	RT	228272			14.5			
36+13.24 to 37+16.83	RT	230738			142.3			
36+14.16 to 36+75.35	RT	228257			7.0			
36+15.48 to 36+75.21	RT	227286			25.1			
36+84.13 to 40+16.85	LT	231234			555.0			
36+87.36 to 37+01.85	RT	227302			4.0			
36+97.33 to 38+49.54	LT	251092			64.3			
37+07.47 to 38+45.83	LT	231269			23.0			
37+73.16 to 37+99.10	RT	249999			33.5			
				SUB-TOTAL:	10607.9			
				TOTAL:	26572			

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PROPEL ENGINEERING, INC.
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WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:
MAJHARUL ALAM, PE
P.E# 61600

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OLD GERMANTOWN ROAD
SUMMARY OF QUANTITIES

SHEET: SQ-16
OF: SQ-20
PROJECT NO. 444377-1

SUMMARY OF PERFORMANCE TURF

LOCATION	SIDE	AREA ID	LENGTH	WIDTH	PERFORMANCE TURF (SOD) 0570 1 2 SY		DESIGN NOTES	CONSTRUCTION REMARKS
STA. TO STA.					P	F		
37+79.17 to 39+10.61	RT	250138			55.5			
37+85.57 to 38+84.09	RT	250186			102.5			
38+01.42 to 41+63.07	RT	250319			400.2			
38+02.55 to 46+98.05	RT	250472			317.2			
39+28.07 to 40+02.55	LT	251169			29.1			
39+39.78 to 39+93.07	LT	231286			7.4			
39+51.91 to 39+94.07	RT	250250			14.8			
40+13.75 to 46+85.53	RT	250355			296.7			
40+54.57 to 46+52.50	LT	231378			417.4			
40+56.49 to 46+77.17	RT	250261			638.1			
40+68.15 to 42+25.69	LT	251198			67.0			
40+75.53 to 42+21.02	LT	231304			119.2			
42+55.92 to 45+24.28	LT	232115			116.5			
42+60.81 to 45+20.09	LT	231321			289.4			
45+55.00 to 49+58.18	LT	232148			177.2			
45+59.85 to 49+59.58	LT	231343			183.8			
46+52.50 to 49+64.29	LT	231399			148.3			
47+51.23 to 51+18.23	RT	250719			249.7			
47+65.77 to 51+05.58	RT	250599			146.5			
47+71.66 to 50+97.88	RT	228098			235.3			
49+78.13 to 50+30.94	LT	231423			24.4			
49+79.40 to 50+30.11	LT	231477			9.1			
49+80.71 to 50+28.58	LT	232201			19.9			
50+41.72 to 51+17.20	LT	251257			33.2			
50+43.88 to 51+17.68	LT	251245			14.6			
50+45.26 to 51+14.39	LT	251231			26.9			
51+20.41 to 51+27.02	LT	251263			2.1			
51+40.58 to 51+53.50	RT	250757			8.4			
51+46.00 to 51+89.50	RT	250782			19.9			
51+46.00 to 51+89.50	RT	250792			29.3			
51+48.31 to 51+86.80	RT	250735			15.9			
51+56.32 to 51+86.80	RT	228088			6.3			
51+66.71 to 52+05.15	LT	251271			14.2			
51+76.54 to 51+86.80	LT	251280			3.2			
51+86.00 to 56+41.63	RT	250804			494.3			
51+98.80 to 52+97.79	RT	228074			20.2			
51+98.80 to 54+80.08	LT	251307			442.5			
51+98.80 to 54+84.97	LT	231496			125.8			
51+98.80 to 54+96.85	RT	250923			131.8			
52+45.96 to 62+06.39	LT	251374			544.0			
53+02.21 to 56+15.27	RT	228034			43.1			
55+15.07 to 56+74.42	LT	232228			68.0			
55+15.55 to 56+28.77	RT	250988			47.0			
55+19.88 to 56+69.91	LT	231580			174.4			
56+81.43 to 58+52.57	RT	230667			64.8			
57+05.11 to 59+07.16	LT	231624			71.5			
57+09.92 to 58+25.48	LT	231610			33.0			
59+24.71 to 61+86.12	RT	223313			446.3			
				SUB-TOTAL:	6945.9			

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OLD GERMANTOWN ROAD
SUMMARY OF QUANTITIES

SHEET: SQ-17
OF: SQ-20
PROJECT NO. 444377-1

SUMMARY OF PERFORMANCE TURF

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	PERFORMANCE TURF (SOD) 0570 1 2 SY P	PERFORMANCE TURF (SOD) 0570 1 2 SY F	DESIGN NOTES	CONSTRUCTION REMARKS
59+67.40 to 61+24.02	LT	251356			59.6			
59+67.56 to 61+24.03	LT	251342			95.7			
60+22.81 to 61+86.15	RT	230261			70.0			
63+18.52 to 64+49.55	LT	231685			56.2			
63+36.87 to 68+70.89	RT	230637			542.4			
63+54.69 to 68+71.97	RT	227700			226.7			
63+67.32 to 68+63.79	RT	230589			299.2			
64+22.91 to 66+80.12	LT	251396			211.3			
64+22.91 to 66+85.04	LT	251412			115.1			
64+49.55 to 78+37.39	LT	231671			731.4			
67+15.01 to 70+85.04	LT	231831			161.5			
67+19.91 to 70+80.12	LT	231739			287.4			
69+42.01 to 71+99.57	RT	251017			105.3			
69+42.60 to 72+02.54	RT	230527			164.3			
69+62.30 to 71+96.36	RT	230498			182.9			
71+15.27 to 81+27.00	LT	231785			442.5			
71+19.98 to 80+77.71	LT	231756			217.5			
72+30.08 to 77+84.50	RT	230584			129.8			
72+36.80 to 73+52.71	RT	251071			51.6			
72+45.49 to 73+52.71	RT	230480			55.1			
74+16.01 to 74+42.51	RT	230492			12.6			
74+16.01 to 77+73.80	RT	230310			153.3			
74+46.92 to 74+92.51	RT	230472			22.6			
74+96.92 to 77+81.23	RT	230450			160.1			
78+21.39 to 80+68.69	RT	230551			72.1			
78+26.83 to 79+38.90	RT	230433			58.7			
78+32.23 to 79+38.90	RT	230355			43.3			
78+37.39 to 81+40.41	LT	251429			175.8			
79+76.45 to 79+99.44	RT	230420			12.2			
79+76.45 to 79+99.64	RT	230375			7.7			
80+12.85 to 80+63.02	RT	230381			21.0			
80+12.85 to 80+64.81	RT	230412			26.9			
80+93.84 to 82+83.27	RT	230545			50.1			
80+99.76 to 82+83.27	RT	232786			81.3			
81+05.44 to 82+83.27	RT	230404			117.7			
81+66.65 to 86+08.54	LT	251439			242.0			
81+79.76 to 83+99.96	LT	251459			93.4			
84+40.00 to 85+00.00	LT	223502			17.6			
85+77.54 to 89+46.22	LT	251631			161.5		SW 22ND AVE	
85+94.87 to 89+52.18	LT	232475			163.4			
86+18.74 to 89+58.43	RT	225505			105.8			
86+27.01 to 89+55.30	RT	251475			145.2		SW 22ND AVE	
86+35.41 to 89+51.18	RT	232436			287.8			
87+71.81 to 87+71.81	LT	232483			59.2			
89+84.87 to 90+44.45	RT	232799			13.9			
89+87.08 to 96+33.51	RT	251545			289.2		SW 22ND AVE	
89+88.88 to 93+73.61	LT	223904			93.1			
89+90.75 to 96+28.40	RT	232302			631.5			
				SUB-TOTAL:	7524.5			

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2711 N VISTA PARKWAY, SUITE NO. B7
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OLD GERMANTOWN ROAD
SUMMARY OF QUANTITIES

SHEET: SQ-18
OF: SQ-20
PROJECT NO. 444377-1

SUMMARY OF PERFORMANCE TURF

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	PERFORMANCE TURF (SOD) 0570 1 2 SY P	 F	DESIGN NOTES	CONSTRUCTION REMARKS
89+95.24 to 93+70.08	LT	251688			162.9		SW 22ND AVE	
89+97.98 to 93+66.63	LT	232560			119.7			
90+48.44 to 96+35.48	RT	219889			137.6			
94+00.83 to 99+44.95	LT	232632			128.0			
94+05.12 to 99+59.75	LT	251724			247.9		SW 22ND AVE	
94+10.18 to 99+58.23	LT	232641			202.2			
96+62.73 to 99+70.05	RT	232296			71.8			
96+65.50 to 99+76.44	RT	251588			139.9		SW 22ND AVE	
96+70.24 to 99+76.44	RT	232273			284.2			
				SUB-TOTAL:	1494.2			

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PROPEL
PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:
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OLD GERMANTOWN ROAD
SUMMARY OF QUANTITIES

SHEET: SQ-19
OF: SQ-20
PROJECT NO. 444377-1

SUMMARY OF LANDSCAPE ITEMS

Pay Item Number	Label	Pay Item Description	Max. Maint. Size	Unit of Measure	Total Quantity				Secondary Quantity			Site No.	Location Description	Design Notes	Construction Remarks
					P	F	P	F	Unit	P	F				
580-1-1		LANDSCAPE COMPLETE- SMALL PLANTS		LS	1		1								
	CHR	Chrysobalanus icaco 'Horizontalis' / Horizontal Coco Plum 3 GAL 24" HT. 24" OC							EA	144			Project Wide		
	MUH	Muhlenbergia capillaris / Pink Muhly Grass 3 GAL 24" HT. 24" OC							EA	408			Project Wide		
	PSY	Psychotria ligustrifolia / Bahama Coffee 3 GAL 24" HT. 24" OC							EA	224			Project Wide		
580-1-2		LANDSCAPE COMPLETE - LARGE		LS	1		1								
	CE	Conocarpus erectus f. sericeus / Silver Buttonwood, Field Grown, 12` HT							EA	16			Project Wide		
	LI	Lagerstroemia indica / Crape Myrtle Field Grown 16` HT							EA	24			Project Wide		
	QV	Quercus virginiana / Live Oak Field Grown 4" DBH 16` HT							EA	28			Project Wide		
	SP	Sabal palmetto / Cabbage Palmetto Field Grown 10` GW							EA	2			Project Wide		
	TR	Thrinax radiata / Florida Thatch Palm Field Grown 5` OAH							EA	8			Project Wide		
581 1 4		RELOCATE TREES AND PALMS,PALMS, < 5" DBH		EA	1		1						37+30 LT	Tree 88	
581 1 5		RELOCATE TREES AND PALMS,PALMS, >= 5" DBH		EA	2		2						38+00 LT	Tree 90, 92	
581 1 7		RELOCATE TREES AND PALMS,PALMS, <14' OF CLEAR TRUNK, SABAL PALM ONLY		EA	11		11							TOTAL 11	
									EA	1			12+30 LT	Tree 32	
										1			15+60 LT	Tree 36	
										1			16+10 RT	Tree 37	
										1			18+40 LT	Tree 38	
										1			18+70 RT	Tree 39	
										1			20+60 RT	Tree 44	
										3			39+40 RT	Tree 97-99	
										2			59+70 LT	Tree 139-140	
581 1 8		RELOCATE TREES AND PALMS, >=14' OF CLEAR TRUNK, SABAL PALM ONLY		EA	3		3							TOTAL 3	
									EA	1			14+40 RT	Tree 35	
										1			26+90 LT	Tree 56	
										1			35+20 LT	Tree 85	

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PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
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FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:
MAJHARUL ALAM, PE
P.E# 61600

No.	Revisions	By	Date

CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

OLD GERMANTOWN ROAD
SUMMARY OF QUANTITIES

SHEET: SQ-20
OF: SQ-20
PROJECT NO. 444377-1

SIGNING AND PAVEMENT MARKING GENERAL NOTES

1. ALL SIGNS AND PAVEMENT MARKINGS, INCLUDING TRAFFIC CONTROL DEVICES, INSTALLED AS PART OF THESE PLANS SHALL CONFORM TO THE 2009 EDITION OF THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) "MANUAL ON UNIFORM TRAFFIC DEVICES" (MUTCD) (AND SUPPLEMENTS THERE TO), THE 2023-2024 EDITION OF THE FDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION AND THE 2023-2024 FDOT SPECIFICATIONS, THE FEBRUARY 2021 PALM BEACH COUNTY TYPICALS FOR PAVEMENT MARKINGS, SIGNING & GEOMETRICS, AND THE CITY OF DELRAY BEACH ROADWAY AND TRAFFIC DETAILS.

2. THE CONTRACTOR SHALL REFURBISH ANY EXISTING PAVEMENT MARKINGS, BEYOND THE LIMITS OF ASPHALT CONSTRUCTION, DAMAGED DURING CONSTRUCTION. PAYMENT SHALL BE INCIDENTAL TO PAY ITEM FOR RELATED STRIPING TO TIE-IN NEW PAVEMENT MARKINGS AT THE BEGINNING AND END OF JOB AND ALL SIDE STREETS.

3. SIGNS SHALL BE BAGGED WHEN THEY DO NOT APPLY.

4. SIGN ASSEMBLY LOCATIONS SHOWN ON THE PLANS WHICH ARE IN CONFLICT WITH LIGHTING, UTILITIES, DRIVEWAYS, LANDSCAPING, WHEELCHAIR RAMPS, ETC., MAY BE ADJUSTED BY THE ENGINEER IN ACCORDANCE WITH FDOT STANDARD PLANS INDEX No. 700-101.

5. EXISTING MARKINGS SHALL BE REMOVED BY WATER BLASTING OR SANDBLASTING ONLY.

6. ALL STATIONING REFERENCES THE OLD GERMANTOWN ROAD AND SW 22ND AVE BASELINE OF SURVEY UNLESS OTHERWISE NOTED.

7. ALL WORK SHALL BE DONE FROM AND WITHIN THE EXISTING RIGHT-OF-WAY.S

8. THE CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF TRANSMISSION LINES, UNDERGROUND UTILITIES AND OVERHEAD UTILITIES.

9. ALL NEW SIGNS SHALL BE DESIGNED FOR 160 M.P.H. WIND SPEED PER FDOT STANDARDS.

10. STREET NAME SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF DELRAY BEACH ROADWAY AND TRAFFIC STANDARD DETAILS. SIGN PANEL CLIPS WILL NOT BE PERMITTED.

11. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANY TWO (2) WORKING DAYS IN ADVANCE OF ANY EXCAVATION INVOLVING ITS UTILITIES SO THAT A COMPANY REPRESENTATIVE CAN BE PRESENT. THE LOCATION OF THE UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION.

UTILITY	CONTACT PERSON	PHONE NUMBER
CITY OF DELRAY BEACH WATER/SEWER	ROB HUNT	(561) 243-7451
COMCAST- PBG	DANIEL TIBURCIO	(772) 321-1566
ATLANTIC BROADBAND	JAVARES HALL	(305) 213-9908
FLORIDA POWER & LIGHT - PALM BEACH	DAVID FUCHS	(321) 214-3814
FLA PUBLIC UTILITIES CO	PETER BONO	(561) 838-3395
HOTWIRE COMMUNICATIONS	WALTER DAVILA	(954) 699-0900
CENTURYLINK	NETWORK RELATIONS	(877) 366-8344
MCI	WILLIAM JEZEWSKI	(214) 490-11654
CROWN CASTLE NG FIBER	DANNY HASKETT	(786) 246-7828
A T & T/DISTRIBUTION	BEDWARD, GARTH	(561) 540-9263

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PROPEL
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OLD GERMANTOWN ROAD
SIGNING AND PAVEMENT MARKING PLAN

SHEET: S-1
OF: S-23
PROJECT NO. 444377-1

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	S-7		S-8		S-9		S-10		S-11		S-12		TOTAL THIS SHEET		GRAND TOTAL	
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
0654 2 22	MIDBLOCK CROSSWALK: RECTANGULAR RAPID FLASHING BEACON, FURNISH & INSTALL- SOLAR, COMPLETE SIGN ASSEMBLY- BACK TO BACK	AS																
0700-1-11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	5		2		2		4		1				14			
0700-1-12	SINGLE POST SIGN, F&I GROUND MOUNT, 12-20 SF	AS	2		1						1		1		5			
0700-1-50	SINGLE POST SIGN, RELOCATE	AS	1												1			
0700-1-60	SINGLE POST SIGN, REMOVE	AS	6		3		2		4		2		1		18			
0700-2-12	MULTI-POST SIGN, F&I GROUND MOUNT, 12-20 SF	AS																
0700-2-60	MULTI-POST SIGN, REMOVE	AS																
0705-10-1	OBJECT MARKER, TYPE 1	EA																
0700-142-171	ENHANCED HIGHWAY SIGN ASSEMBLY, SOLAR POWERED, F&I GROUND MOUNT, W/EDS AND BEACON, UP TO 12 SF OF STATIC SIGN PANELS	AS																
0706-1-3	RAISED PAVEMENT MARKER, TYPE B	EA	111		38		54		37		36		33		309			
*	RETRO-REFLECTIVE PAVEMENT MARKERS BI-DIRECTIONAL WHITE RED	EA	7												7			
*	RETRO-REFLECTIVE PAVEMENT MARKERS BI-DIRECTIONAL YELLOW	EA	104		37		54		37		36		33		301			
*	RETRO-REFLECTIVE PAVEMENT MARKERS BI-DIRECTIONAL BLUE	EA	2		1										3			
0710-90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	LS																
*	PAINTED PM, STD, WHITE, SOLID, 6"	GM	0.184		0.174		0.212		0.190		0.177		0.162		1.100			
*	PAINTED PM, STD, YELLOW, SOLID, 6"	GM	0.355		0.226		0.212		0.168		0.157		0.140		1.258			
*	PAINT, STD., WHITE, SOLID, CROSSWALK/RA, 12"	LF	337.0		236.3				136.0		198.5		252.4		1160.2			
*	PAINT, STD., YELLOW, SOLID, DIAG/CHEVRONS, 18"	LF	86.0												86.0			
*	PAINT, WHITE, SOLID, STOP LINES/CROSSWALK, 24"	LF	50.0		35.1				18.9		31.1		19.7		154.8			
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 6-10 DOTTED EXTENSION, 6"	GM	0.031												0.031			
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	EA	3												3			
0711 11123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF	337.0		236.3				136.0		198.5		252.4		1160.2			
0711 11224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRONS	LF	86.0												86.0			
0711 11125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF	50.0		35.1				18.9		31.1		19.7		154.8			
0711 11141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 GAP EXTENSION, 6"	GM	0.031												0.031			
0711 11170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA	3												3			
0711 14125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF	121												121			
0711 14160	THERMOPLASTIC, PREFORMED, WHITE, MESSAGE	EA																
0711 14170	THERMOPLASTIC, PREFORMED, WHITE, ARROW	EA																
0711 16101	THERMOPLASTIC, STANDARD, OTHER SURFACES, WHITE, SOLID, 6"	GM	0.184		0.174		0.212		0.190		0.177		0.162		1.100			
0711 16201	THERMOPLASTIC, STANDARD, OTHER SURFACES, YELLOW, SOLID, 6"	GM	0.355		0.226		0.212		0.168		0.157		0.140		1.258			

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Seal:
MAJHARUL ALAM, P.E.
P.E# 61600

No.	Revisions	By	Date

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PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

OLD GERMANTOWN ROAD
SIGNING AND PAVEMENT MARKING PLAN

SHEET: S-2
OF: S-23
PROJECT NO. 444377-1

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	S-13		S-14		S-15		S-16		S-17		S-18		TOTAL THIS SHEET		GRAND TOTAL	
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
0654 2 22	MIDBLOCK CROSSWALK: RECTANGULAR RAPID FLASHING BEACON, FURNISH & INSTALL- SOLAR, COMPLETE SIGN ASSEMBLY- BACK TO BACK	AS			2										2			
0700-1-11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	1		4		4		6		1				16			
0700-1-12	SINGLE POST SIGN, F&I GROUND MOUNT, 12-20 SF	AS			2										2			
0700-1-50	SINGLE POST SIGN, RELOCATE	AS					1								1			
0700-1-60	SINGLE POST SIGN, REMOVE	AS	1		2		2		4		1				10			
0700-2-12	MULTI-POST SIGN, F&I GROUND MOUNT, 12-20 SF	AS									1				1			
0700-2-60	MULTI-POST SIGN, REMOVE	AS									1				1			
0705-10-1	OBJECT MARKER, TYPE 1	EA									1				1			
0700-142-171	ENHANCED HIGHWAY SIGN ASSEMBLY, SOLAR POWERED, F&I GROUND MOUNT, W/EDS AND BEACON, UP TO 12 SF OF STATIC SIGN PANELS	AS							2						2			
0706-1-3	RAISED PAVEMENT MARKER, TYPE B	EA	38		26		190		72		72				398			
*	RETRO-REFLECTIVE PAVEMENT MARKERS BI-DIRECTIONAL WHITE RED	EA					9								9			
*	RETRO-REFLECTIVE PAVEMENT MARKERS BI-DIRECTIONAL YELLOW	EA	37		26		180		72		72				387			
*	RETRO-REFLECTIVE PAVEMENT MARKERS BI-DIRECTIONAL BLUE	EA	1				1								2			
0710-90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	LS																
*	PAINTED PM, STD, WHITE, SOLID, 6"	GM	0.189		0.173		0.207		0.212		0.198				0.978			
*	PAINTED PM, STD, YELLOW, SOLID, 6"	GM	0.174		0.175		0.335		0.206		0.196				1.086			
*	PAINT, STD., WHITE, SOLID, CROSSWALK/RA, 12"	LF	117.6		196.8		278.7						63.3		656.4			
*	PAINT, STD., YELLOW, SOLID, DIAG/CHEVRONS, 18"	LF					270.0		76.2						346.2			
*	PAINT, WHITE, SOLID, STOP LINES/CROSSWALK, 24"	LF	17.9		50.0		11.1								79.01			
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 6-10 DOTTED EXTENSION, 6"	GM					0.066								0.066			
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	EA					3								3			
0711 11123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF	117.6		196.8		278.7						63.3		656.4			
0711 11224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRONS	LF					270.0		76.2						346.2			
0711 11125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF	17.9		50.0		11.1								79.01			
0711 11141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 GAP EXTENSION, 6"	GM					0.066								0.066			
0711 11170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA					3								3			
0711 14125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF			60										60			
0711 14160	THERMOPLASTIC, PREFORMED, WHITE, MESSAGE	EA			1		1		4						6			
0711 14170	THERMOPLASTIC, PREFORMED, WHITE, ARROW	EA					1		4						5			
0711 16101	THERMOPLASTIC, STANDARD, OTHER SURFACES, WHITE, SOLID, 6"	GM	0.189		0.173		0.207		0.212		0.198				0.978			
0711 16201	THERMOPLASTIC, STANDARD, OTHER SURFACES, YELLOW, SOLID, 6"	GM	0.174		0.175		0.335		0.206		0.196				1.086			

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PHONE (561) 866-5730

Seal:
MAJHARUL ALAM, P.E.
P.E# 61600

No.	Revisions	By	Date

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PUBLIC WORKS DEPARTMENT
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Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

OLD GERMANTOWN ROAD
SIGNING AND PAVEMENT MARKING PLAN

SHEET: S-3
OF: S-23
PROJECT NO. 444377-1

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	S-19		S-20		S-21		S-22		S-23				TOTAL THIS SHEET		GRAND TOTAL	
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
0654 2 22	MIDBLOCK CROSSWALK: RECTANGULAR RAPID FLASHING BEACON, FURNISH & INSTALL- SOLAR, COMPLETE SIGN ASSEMBLY- BACK TO BACK	AS															2	
0700-1-11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	3		1										4		34	
0700-1-12	SINGLE POST SIGN, F&I GROUND MOUNT, 12-20 SF	AS															7	
0700-1-50	SINGLE POST SIGN, RELOCATE	AS															2	
0700-1-60	SINGLE POST SIGN, REMOVE	AS	3												3		31	
0700-2-12	MULTI-POST SIGN, F&I GROUND MOUNT, 12-20 SF	AS															1	
0700-2-60	MULTI-POST SIGN, REMOVE	AS															1	
0705-10-1	OBJECT MARKER, TYPE 1	EA															1	
0700-142-171	ENHANCED HIGHWAY SIGN ASSEMBLY, SOLAR POWERED, F&I GROUND MOUNT, W/EDS AND BEACON, UP TO 12 SF OF STATIC SIGN PANELS	AS															2	
0706-1-3	RAISED PAVEMENT MARKER, TYPE B	EA					16		22		24				62		769	
*	RETRO-REFLECTIVE PAVEMENT MARKERS BI-DIRECTIONAL WHITE RED	EA															16	
*	RETRO-REFLECTIVE PAVEMENT MARKERS BI-DIRECTIONAL YELLOW	EA					16		20		24				60		748	
*	RETRO-REFLECTIVE PAVEMENT MARKERS BI-DIRECTIONAL BLUE	EA							2						2		7	
0710-90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	LS															1	
*	PAINTED PM, STD, WHITE, SOLID, 6"	GM					0.114		0.177		0.176				0.467		2.544	
*	PAINTED PM, STD, YELLOW, SOLID, 6"	GM					0.097		0.167		0.161				0.425		2.769	
*	PAINT, STD., WHITE, SOLID, CROSSWALK/RA, 12"	LF	73.0				72.2		200.0		167.6				512.75		2329	
*	PAINT, STD., YELLOW, SOLID, DIAG/CHEVRONS, 18"	LF															432	
*	PAINT, WHITE, SOLID, STOP LINES/CROSSWALK, 24"	LF	10.6				13.8				12.9				37.3		271	
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 6-10 DOTTED EXTENSION, 6"	GM															0.097	
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	EA															6	
0711 11123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF	73.0				72.2		200.0		167.6				512.75		2329	
0711 11224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRONS	LF															432	
0711 11125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF	10.6				13.8				12.9				37.3		271	
0711 11141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 GAP EXTENSION, 6"	GM															0.097	
0711 11170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA															6	
0711 14125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF															181	
0711 14160	THERMOPLASTIC, PREFORMED, WHITE, MESSAGE	EA			1										1		7	
0711 14170	THERMOPLASTIC, PREFORMED, WHITE, ARROW	EA			1										1		6	
0711 16101	THERMOPLASTIC, STANDARD, OTHER SURFACES, WHITE, SOLID, 6"	GM					0.114		0.177		0.176				0.467		2.544	
0711 16201	THERMOPLASTIC, STANDARD, OTHER SURFACES, YELLOW, SOLID, 6"	GM					0.097		0.167		0.161				0.425		2.769	

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PROPEL

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OLD GERMANTOWN ROAD
SIGNING AND PAVEMENT MARKING PLAN

SHEET: S-4
OF: S-23
PROJECT NO. 444377-1

OLD GERMANTOWN ROAD

S1-1
36" X 36"
W16-7PL
24" X 12"
700-1-11
STA. 10+43.00
1 AS

700-1-60
STA. 10+44.00
1 AS

OLD GERMANTOWN RD
STOP
3-WAY
700-1-60
STA. 10+45.00
1 AS

OLD GERMANTOWN RD
STOP
TRAFFIC FROM RIGHT DOES NOT STOP

D3-1
9" X 42" (2)
R1-1
30" X 30"
W4-4ARP
24" X 12"
700-1-12
STA. 10+45.00
1 AS

R3-17
24" X 8"
R3-17BP
24" X 8"
700-1-11
STA. 12+00.00
1 AS

BIKE LANE ENDS

700-1-60
STA. 13+15.00
1 AS

RIGHT LANE MUST TURN RIGHT

EXIST. SIGN
(TO RELOCATE)
700-1-50
STA. 14+15.00
1 AS

EXIST. SIGN
(TO REMAIN)

SCHOOL SPEED LIMIT 20 SCHOOL DAYS 7:15 - 8:15 AM 2:00 - 3:00 PM

SPEEDING FINES DOUBLED

0 10 40
Feet

℄ SURVEY OLD GERMANTOWN ROAD

R/W LINE

18" YELLOW @ 10' O.C.

6" WHITE (6' - 10' SKIP)

6" WHITE (6' - 10' SKIP)

MD/Y RPMS @ 8" O.C. ON TOP OF THE CURB

+23.27
3.25' (LT)
6" DOUBLE YELLOW W/Y/Y RPMS @ 40'

+07.00
3.17' (RT)

+97.00
7.70' (LT)

+70.53
9.45' (LT)

+99.57
0.15' (RT)

400.00 R

6' WHITE

11 12 13 14 15

36' R

11.5' 11.5' 11' 12'

N 89° 24' 44" E

+44.50
10.71' (RT)

+97.77
23.76' (RT)

6" WHITE W/W/R RPMS @ 20' O.C.

425.00 R

6' WHITE

BLUE RPM

12'

+34.19

6' WHITE

24' WHITE

24" WHITE

10

N 68° 47' 45" E

10'

BLUE RPM

24" WHITE

+17.00
15.09' (RT)

+34.00
15.05' (RT)

+55.50
25.90' (RT)

+19.78
40.40' (RT)

+93.50
27.57' (RT)

12" WHITE

12" WHITE

+85.25
40.65' (RT)

+04.83
22.40' (RT)

OLD GERMANTOWN ROAD

10'

10'

+48.82
16.24' (RT)

+41.84
5.26' (RT)

R3-17
24" X 8"
R3-17AP
24" X 8"
700-1-11
STA. 10+53.00
1 AS

AHEAD BIKE LANE

24" WHITE

+98.47
39.29' (RT)

MATCH LINE STA 15+60.00

6" WHITE

12" WHITE

6" WHITE

S1-1
36" X 36"
W16-7PL
24" X 12"
700-1-11
STA. 10+35.00
1 AS

700-1-60
STA. 10+35.00
1 AS

STOP
700-1-60
STA. 13+00.00
1 AS

STOP
R1-1
30" X 30"
700-1-11
STA. 13+05.00
1 AS

R/W LINE

END SCHOOL ZONE

EXIST. SIGN
(TO REMAIN)

MON THRU FRI 7:15am - 8:15am

MON-FRI 7:15 AM 8:15 AM

EXIST. SIGN
(TO REMAIN)

STOP

3-WAY
700-1-60
STA. 10+20.00
1 AS

ONCOMING TRAFFIC DOES NOT STOP

STOP

R10-20AP
24" X 18"
R3-2
24" X 24"
R1-1
30" X 30"
W4-4BP
24" X 12"
700-1-12
STA. 10+20.00
1 AS

BEGIN PROJECT
BEGIN SIGNING & PAVEMENT MARKING
℄ SURVEY OLD GERMANTOWN ROAD
STA 10+21.16

BEGIN ℄ SURVEY
OLD GERMANTOWN ROAD
STA. 10+00.00

DELRAY BEACH FIRE
DEPARTMENT STATION 5

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PROPEL
PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:
MAJHARUL ALAM, P.E.
P.E# 61600

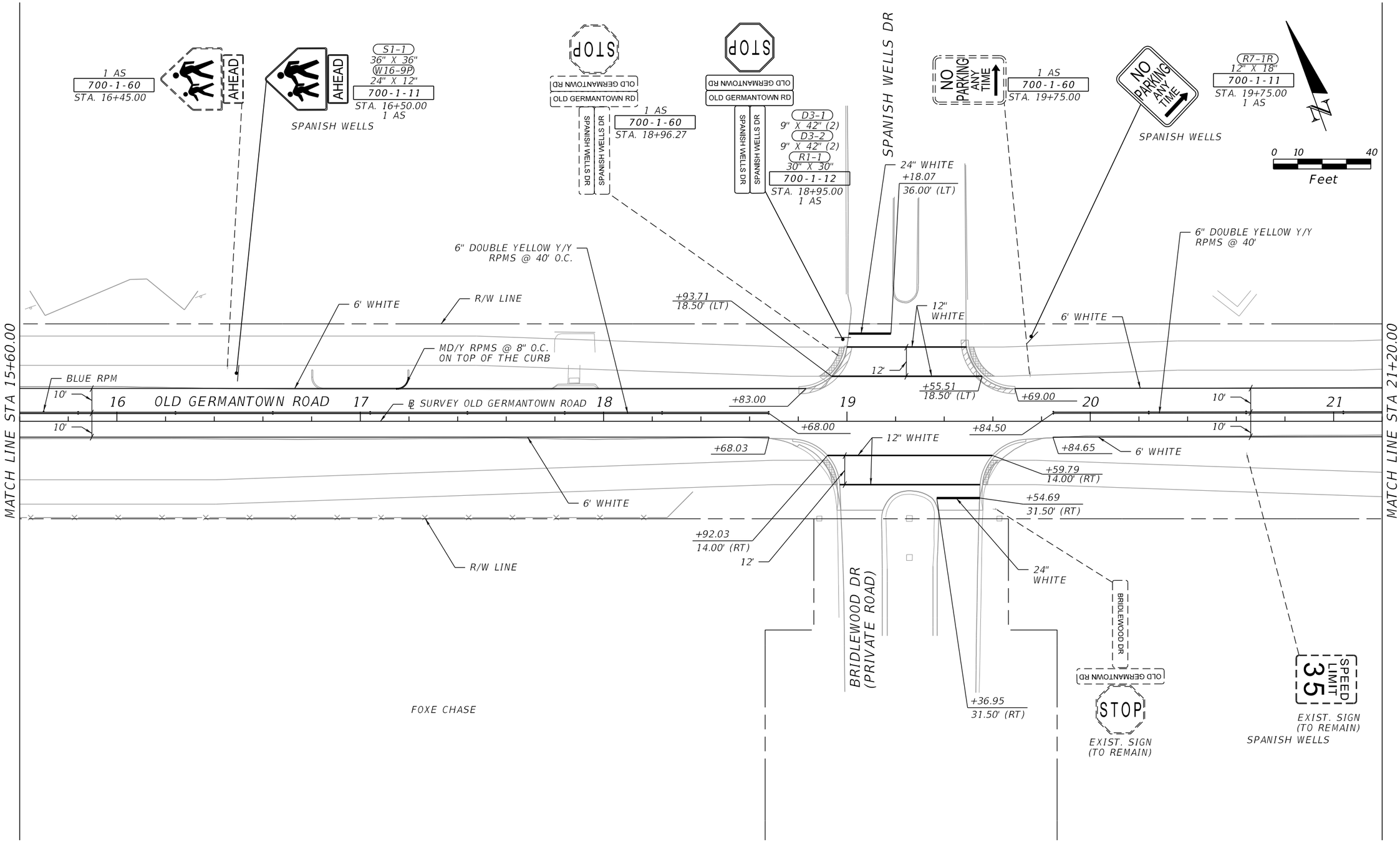
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CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

OLD GERMANTOWN ROAD

SIGNING AND PAVEMENT MARKING PLAN

SHEET: S-5
OF: S-23
PROJECT NO. 444377-1



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WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:

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P.E# 61600

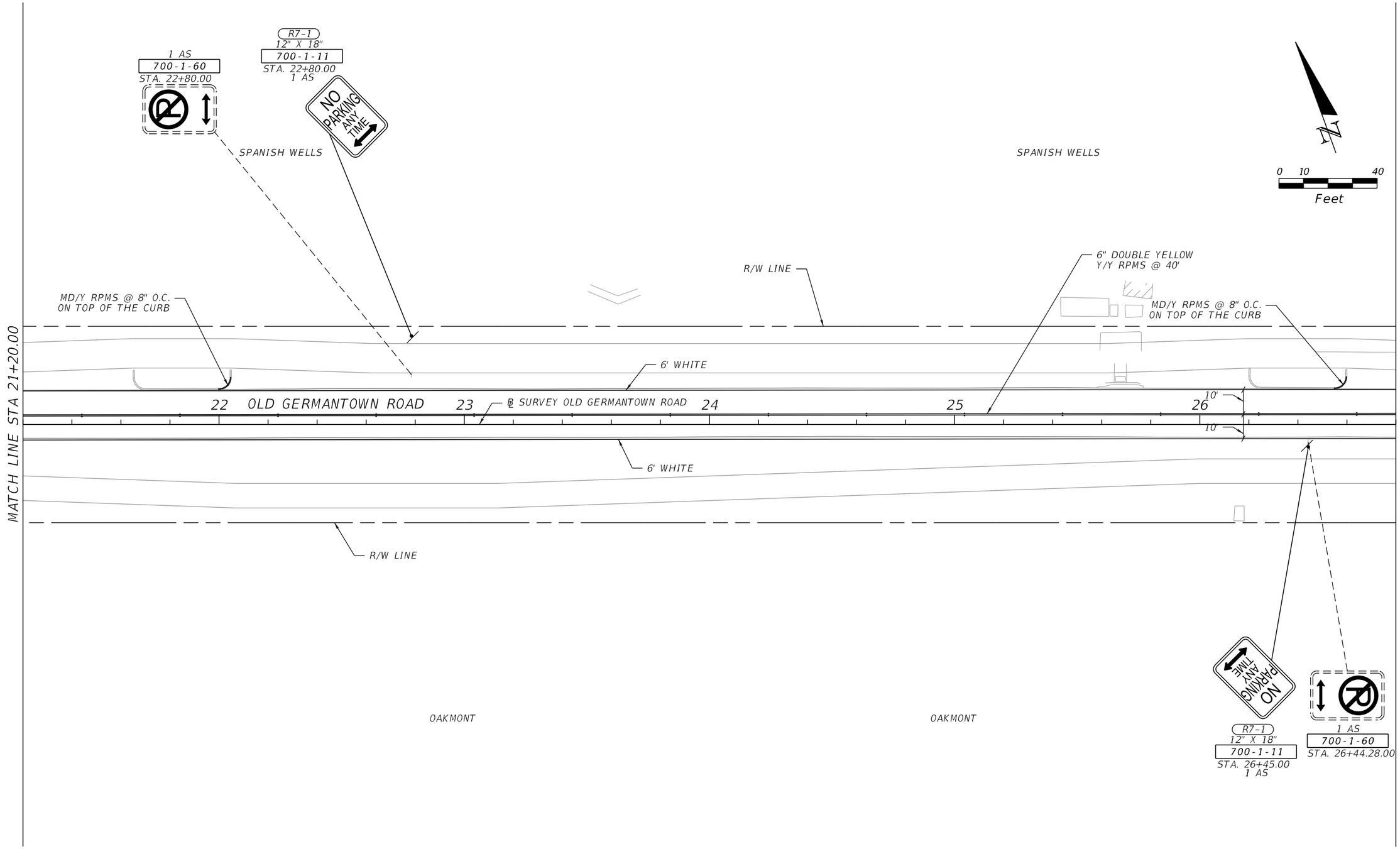
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OLD GERMANTOWN ROAD
SIGNING AND PAVEMENT MARKING PLAN

SHEET: S-6
OF: S-23
PROJECT NO. 444377-1

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WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:

MAJHARUL ALAM, P.E.
P.E# 61600

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CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
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OLD GERMANTOWN ROAD

SIGNING AND PAVEMENT MARKING PLAN

SHEET: S-7
OF: S-23
PROJECT NO. 444377-1

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SPANISH WELLS

0 10 40
Feet

MATCH LINE STA 26+80.00

MATCH LINE STA 32+40.00

6" DOUBLE YELLOW Y/Y RPMS @ 40'

+41.50

+57.00

R/W LINE

MD/Y RPMS @ 8" O.C. ON TOP OF THE CURB

6" DOUBLE YELLOW Y/Y RPMS @ 40'

6' WHITE

10'

27 28 29 OLD GERMANTOWN ROAD 30 31 32

℄ SURVEY OLD GERMANTOWN ROAD

+37.13
12.00' (RT)

12'

5.5'

+29.23
29.50' (RT)

12" WHITE

24" WHITE

+62.67
12.00' (RT)

+10.30
29.50' (RT)

SW 36TH AVE

R/W LINE

OLD GERMANTOWN RD

SW 36 AVE

STOP

EXIST. SIGN
(TO REMAIN)

NO PARKING ANY TIME

1 AS
700-1-60
STA. 26+99.43

R7-1
12" X 18"
700-1-11
STA. 27+00.00
1 AS

R7-1
12" X 18"
700-1-11
STA. 29+20.00
1 AS

1 AS
700-1-60
STA. 29+16.73

R7-1
12" X 18"
700-1-11
STA. 31+00.00
1 AS

1 AS
700-1-60
STA. 30+97.22

R7-1
12" X 18"
700-1-11
STA. 32+00.00
1 AS

1 AS
700-1-60
STA. 32+01.06

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WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

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P.E# 61600

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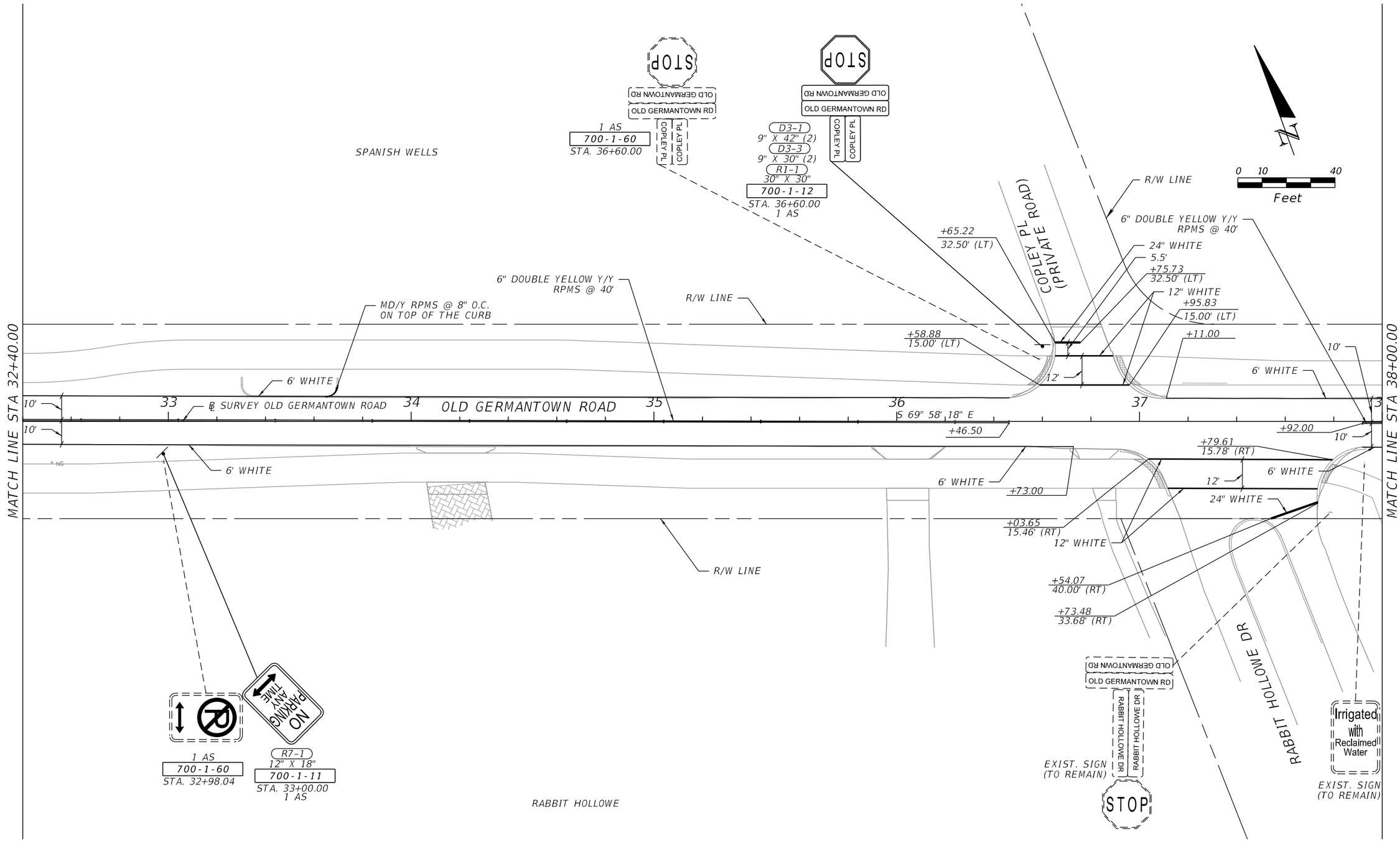
CITY of DELRAY BEACH
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Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

OLD GERMANTOWN ROAD

SIGNING AND PAVEMENT MARKING PLAN

SHEET: S-8
OF: S-23
PROJECT NO. 444377-1

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FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:

MAJHARUL ALAM, P.E.
P.E# 61600

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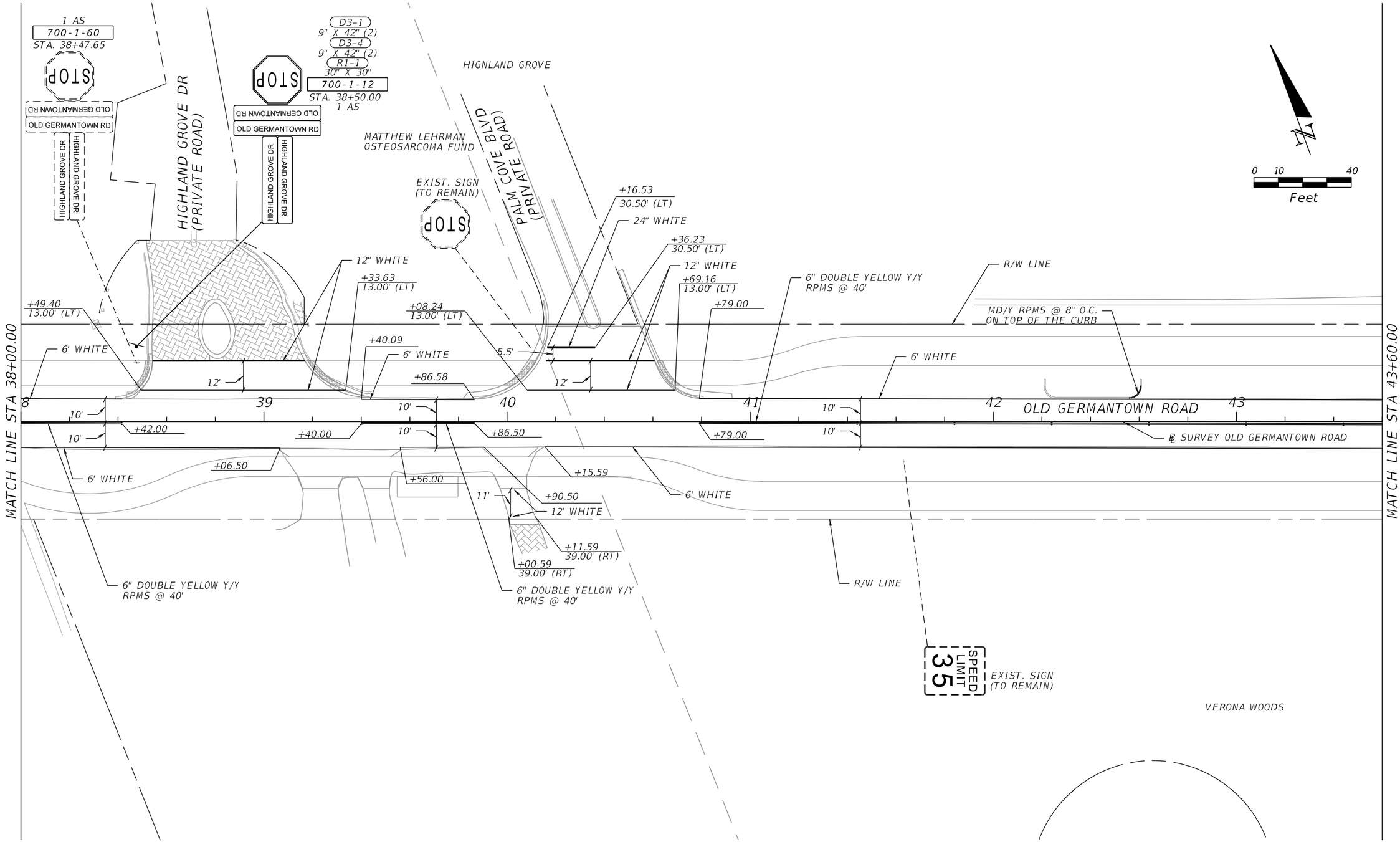
OLD GERMANTOWN ROAD

SIGNING AND PAVEMENT MARKING PLAN

SHEET: S-9
OF: S-23
PROJECT NO. 444377-1

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FLORIDA BUSINESS CERT. NO. 31050
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P.E# 61600

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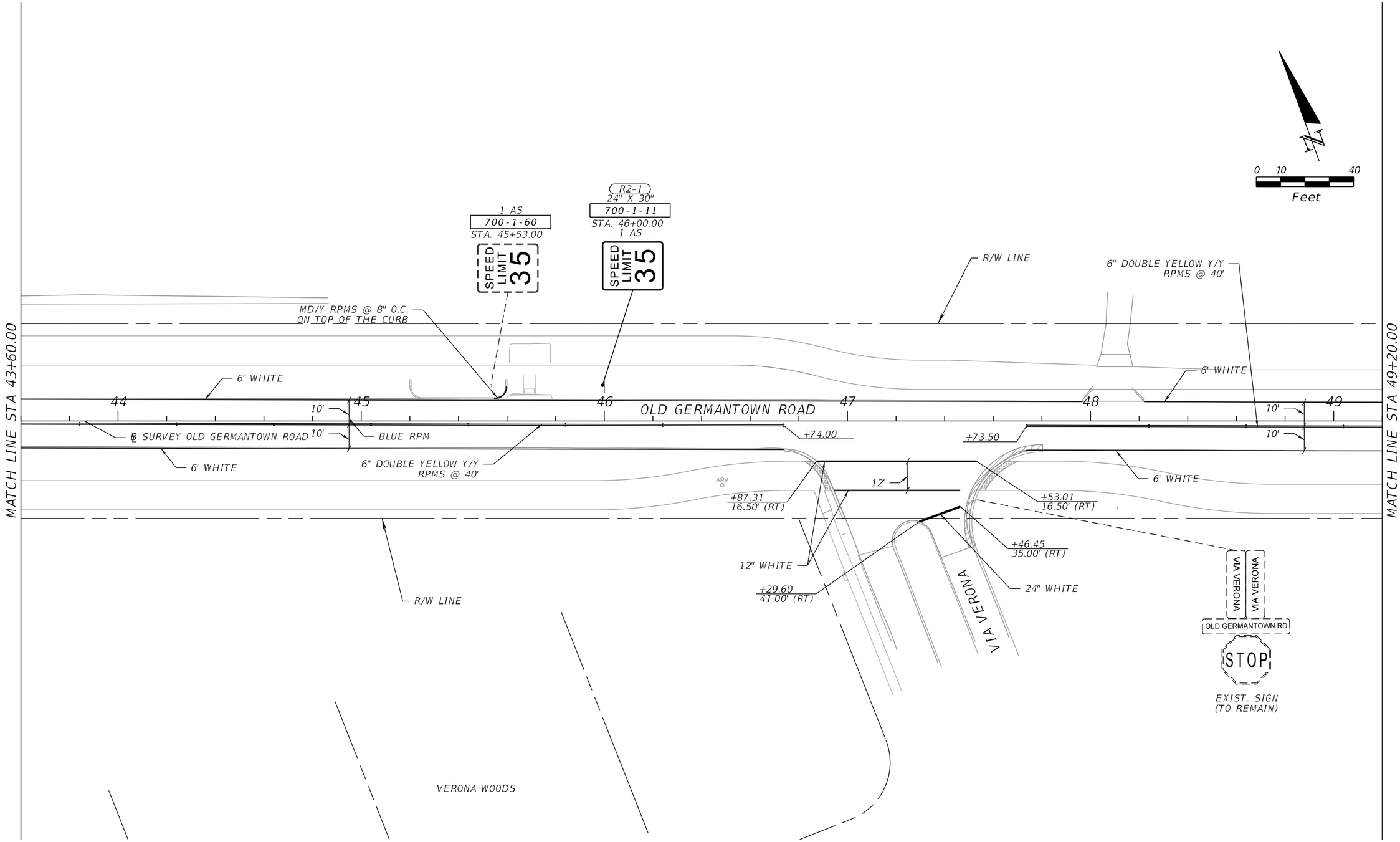
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OLD GERMANTOWN ROAD

SIGNING AND PAVEMENT MARKING PLAN

SHEET: S-10
OF: S-23
PROJECT NO. 444377-1

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WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:

MAJHARUL ALAM, P.E.
P.E# 61600

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OLD GERMANTOWN ROAD

SIGNING AND PAVEMENT MARKING PLAN

SHEET: S-11
OF: S-23
PROJECT NO. 444377-1

MATCH LINE STA 49+20.00

MATCH LINE STA 54+80.00

OLD GERMANTOWN ROAD

HOMEWOOD BLVD

GREENBRIAR DR

STOP

OLD GERMANTOWN RD

HOMEWOOD BLVD

D3-1
9" X 42" (2)
D3-5
9" X 42" (2)
R1-1
30" X 30"
700-1-12
STA. 51+30.00
1 AS

1 AS
700-1-60
STA. 51+32.00

+38.14
31.50' (LT)
+30.75
31.50' (LT)

6" WHITE
24' WHITE
6" DOUBLE YELLOW Y/Y RPMS @ 40'

+49.42
31.50' (LT)
12" WHITE
+59.86
36.51' (LT)
6" WHITE
+60.61
25.00' (LT)

6" DOUBLE YELLOW Y/Y RPMS @ 40'
R/W LINE
6' WHITE
+24.82
+50.55
+52.00
+83.00
+00.00
+19.39
13.00' (LT)
6.5'
12'
6' WHITE
+74.83
13.00' (LT)
24" WHITE
6" WHITE
6" DOUBLE YELLOW Y/Y RPMS @ 40'
10'
10'
+95.00
12.67' (RT)
24' WHITE
12" WHITE
+48.63
19.00' (RT)
+62.00
5'
+26.80
2.81' (RT)
12" WHITE
6' WHITE
12'
+86.77
12.94' (RT)
5.5'
℄ SURVEY OLD GERMANTOWN ROAD
10'
6' WHITE

50 51 52 53 54

PUSH BUTTON FOR WARNING LIGHTS
WAIT FOR TRAFFIC TO STOP
CROSS WITH CAUTION

W11-2
36" X 36"
W16-7PR
24" X 12"
FTP-68C-21
9" X 18"
W11-2
36" X 36"
W16-7PL
24" X 12"
654-2-22
STA. 52+00.00
1 AS

R1-5B
36" X 36"
700-1-11
STA. 52+26.80
1 AS

W11-2
36" X 36"
W16-9P
24" X 12"
700-1-11
STA. 52+86.80
1 AS

AHEAD

0 10 40
Feet

W11-2
36" X 36"
W16-9P
24" X 12"
700-1-11
STA. 50+35.00
1 AS

R1-5B
36" X 36"
700-1-11
STA. 50+95.00
1 AS
(CANTILEVER GROUND MOUNT)

+08.39
17.50' (RT)
12" WHITE
+29.46
35.82' (RT)
24" WHITE
+40.58
36.43' (RT)

D3-1
9" X 42" (2)
D3-6
9" X 42" (2)
R1-1
30" X 30"
700-1-12
STA. 51+45.00
1 AS

1 AS
700-1-60
STA. 51+51.00

W11-2
36" X 36"
W16-7PR
24" X 12"
FTP-68C-21
9" X 18"
W11-2
36" X 36"
W16-7PL
24" X 12"
654-2-22
STA. 52+00.00
1 AS

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PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

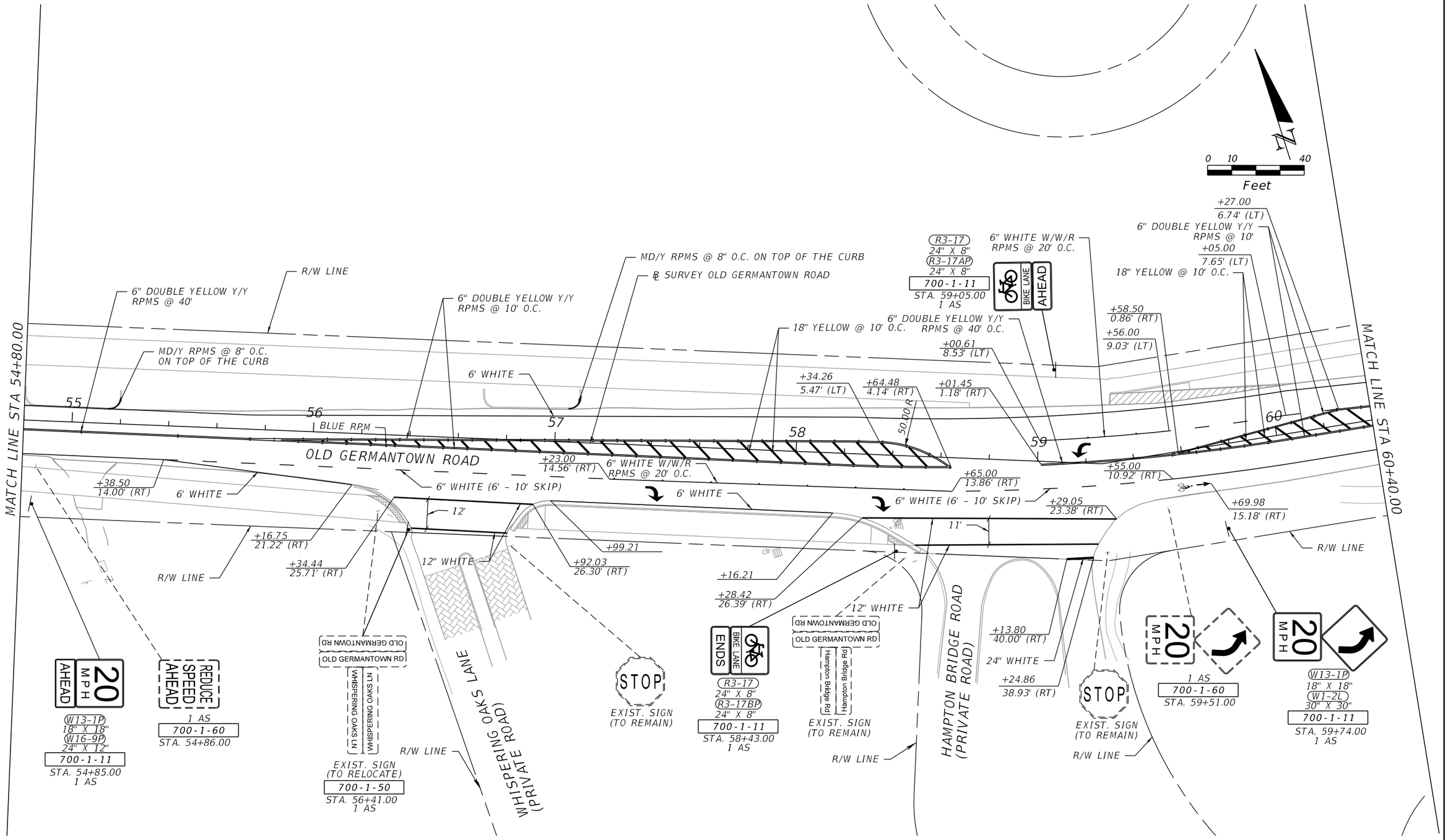
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MAJHARUL ALAM, P.E.
P.E# 61600

No.	Revisions	By	Date

CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

OLD GERMANTOWN ROAD
SIGNING AND PAVEMENT MARKING PLAN

SHEET: S-12
OF: S-23
PROJECT NO. 444377-1



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PROPEL

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OLD GERMANTOWN ROAD

SIGNING AND PAVEMENT MARKING PLAN

SHEET: S-13
OF: S-23
PROJECT NO. 444377-1

LWDD CANAL E-4

LWDD R/W LINE

BEGIN BRIDGE
BRIDGE NO. 934482
END MILLING & RESURFACING
STA 61+86.15

END BRIDGE
BRIDGE NO. 934482
BEGIN MILLING & RESURFACING
STA 63+39.21

AXIS DELRAY BEACH

N

0 10 40
Feet

W13-1P
18" X 18"
700-142-171
STA. 64+50.00
1 AS

20 MPH
YOUR SPEED XX

EXIST. SIGN
(TO REMAIN)
20 MPH

R3-17
24" X 8"
R3-17BP
24" X 8"
700-1-11
STA. 64+57.00
1 AS

END BIKE LANE

MATCH LINE STA 60+40.00

MATCH LINE STA 66+00.00

OLD GERMANTOWN ROAD

6" DOUBLE YELLOW Y/Y RPMS @ 10'

18" YELLOW @ 10'

R/W LINE

10'

61

62

63

64

65

+86.26
2.61' (RT)

+85.27
14.22' (RT)

+39.06
1.60' (RT)

+01.00

+41.52
11.50' (LT)

+03.83
12.12' (LT)

+53.29
20.73' (LT)

6' WHITE

BRIDGE #934482

℄ SURVEY OLD GERMANTOWN ROAD

6" DOUBLE YELLOW Y/Y RPMS @ 40'

20 MPH
YOUR SPEED XX

W13-1P
18" X 18"
700-142-171
STA. 60+45.00
1 AS

R3-17
24" X 8"
R3-17AP
24" X 8"
700-1-11
STA. 63+09.00
1 AS

AHEAD BIKE LANE

1 AS
700-1-60
STA. 63+25.00

W1-8L
18" X 24"
700-1-11
STA. 63+25.00
1 AS

1 AS
700-1-60
STA. 63+66.00

W1-8L
18" X 24"
700-1-11
STA. 63+66.00
1 AS

1 AS
700-1-60
STA. 63+80.00

W1-8L
18" X 24"
700-1-11
STA. 63+86.00
1 AS

1 AS
700-1-60
STA. 63+92.00

W1-8L
18" X 24"
700-1-11
STA. 64+04.00
1 AS

LWDD CANAL E-4

LWDD R/W LINE

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PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:
MAJHARUL ALAM, P.E.
P.E# 61600

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OLD GERMANTOWN ROAD

SIGNING AND PAVEMENT MARKING PLAN

SHEET: S-14
OF: S-23
PROJECT NO. 444377-1

AXIS DELRAY BEACH

W13-1P
18" X 18"
W16-9P
24" X 12"
700-1-11
STA. 68+35.00
1 AS

20 MPH AHEAD

REDUCE SPEED AHEAD

1 AS
700-1-60
STA. 68+37.00

OM1-1
18" X 18"
705-10-1
STA. 69+15.00
1 EA

W1-7
48" X 24"
OM1-1
18" X 18"(2)
700-2-12
STA. 69+25.00
1 AS

1 AS
700-2-60
STA. 69+25.00

EXIST. SIGN
(TO REMAIN)

SW 22 AVE

0 10 40
Feet

MATCH EXIST. LINE
71+56.47, 12.90' (LT)

MATCH EXIST. LINE
71+56.47, 2.15' (LT)

6" DOUBLE YELLOW Y/Y
RPMS @ 40'

R/W LINE

MD/Y RPMS @ 8" O.C. ON TOP OF THE CURB

6' WHITE

6" DOUBLE YELLOW Y/Y
RPMS @ 40'

6" DOUBLE YELLOW Y/Y
RPMS @ 10'

MD/Y RPMS @ 8" O.C. ON TOP OF THE CURB

6' WHITE

MATCH LINE STA 66+00.00

66 67 68 69 70 71

OLD GERMANTOWN ROAD

℄ SURVEY OLD GERMANTOWN ROAD

11' 11' 11' 11'

+59.50

+53.50

+93.00
11.00' (LT)

+93.00

+93.00
11.00' (RT)

18" YELLOW @ 10' CC

6' WHITE

+72.42
17.00' (RT)

+40.77
17.00' (RT)

R/W LINE

R/W LINE

99 SW 22ND AVE

END SIGNING &
PAVEMENT MARKING
℄ SURVEY OLD
GERMANTOWN ROAD
STA 71+56.47

MATCH EXIST. LINE
71+56.47, 1.65' (RT)

MATCH EXIST. LINE
71+56.47, 12.90' (RT)

MATCH LINE STA 71+60.00

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WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:
MAJHARUL ALAM, P.E.
P.E# 61600

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OLD GERMANTOWN ROAD

SIGNING AND PAVEMENT MARKING PLAN

SHEET: S-15
OF: S-23
PROJECT NO. 444377-1

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AXIS DELRAY BEACH

N

0 10 40
Feet

R/W LINE

LINTON LAKE DR

MATCH LINE STA 71+60.00

72 73 OLD GERMANTOWN ROAD 74 75 76 77

N 68° 35' 32" E

℄ SURVEY OLD GERMANTOWN ROAD

MATCH LINE STA 77+20.00

12'

+00.69
26.00' (RT)

12" WHITE

+35.64
26.00' (RT)

STOP

EXIST. SIGN
(TO REMAIN)

SPEED LIMIT 35

EXIST. SIGN
(TO REMAIN)

R/W LINE

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OLD GERMANTOWN ROAD

SIGNING AND PAVEMENT MARKING PLAN

SHEET: S-16
OF: S-23
PROJECT NO. 444377-1

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AXIS DELRAY BEACH

LINTON LAKE DR

SPRING HARBOR DR

OLD GERMANTOWN ROAD

℄ SURVEY OLD GERMANTOWN ROAD

R/W LINE

MATCH LINE STA 77+20.00

MATCH LINE STA 82+80.00

78 79 80 81 82

SPEED LIMIT 35

1 AS
700-1-60
STA. 80+74.00

R2-1
24" X 30"
700-1-11
STA. 80+74.00
1 AS

SPEED LIMIT 35

1 AS
700-1-60
STA. 81+34.00

STOP

R1-1
30" X 30"
700-1-11
STA. 81+39.00
1 AS

STOP

24" WHITE
+52.04
38.00' (LT)

12" WHITE

+76.96
20.50' (LT)

12'

+30.16
20.50' (LT)

N

0 10 40
Feet

STOP
1 AS
700-1-60
STA. 80+66.00

STOP
EXIST. SIGN
(TO REMAIN)

BIKE LANE ENDS

R3-17
24" X 8"
R3-17BP
24" X 8"
700-1-11
STA. 82+00.00
1 AS

TWIN-STAR INTERNATION, INC.

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PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:
MAJHARUL ALAM, P.E.
P.E# 61600

No.	Revisions	By	Date

CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

OLD GERMANTOWN ROAD
SIGNING AND PAVEMENT MARKING PLAN

SHEET: S-17
OF: S-23
PROJECT NO. 444377-1

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AXIS DELRAY BEACH

SPRING HARBOR DR

R/W LINE

R3-17
24" X 8"
R3-17AP
24" X 8"
700-1-11
STA. 83+98.00
1 AS

BIKE LANE AHEAD

R/W LINE

+06.17
29.27' (LT)

MATCH LINE STA 82+80.00

83 84 85 86

℄ SURVEY OLD GERMANTOWN ROAD

OLD GERMANTOWN ROAD

R/W LINE

R/W LINE

END ℄ SURVEY OLD GERMANTOWN ROAD
STA 86+53.00

SOUTH CONGRESS AVE

END PROJECT
℄ SURVEY OLD
GERMANTOWN ROAD
STA 86+16.20

MY WIGS BOUTIQUE BY HAIRCLUB

US CLAIMS

0 10 40
Feet

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FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:
MAJHARUL ALAM, P.E.
P.E# 61600

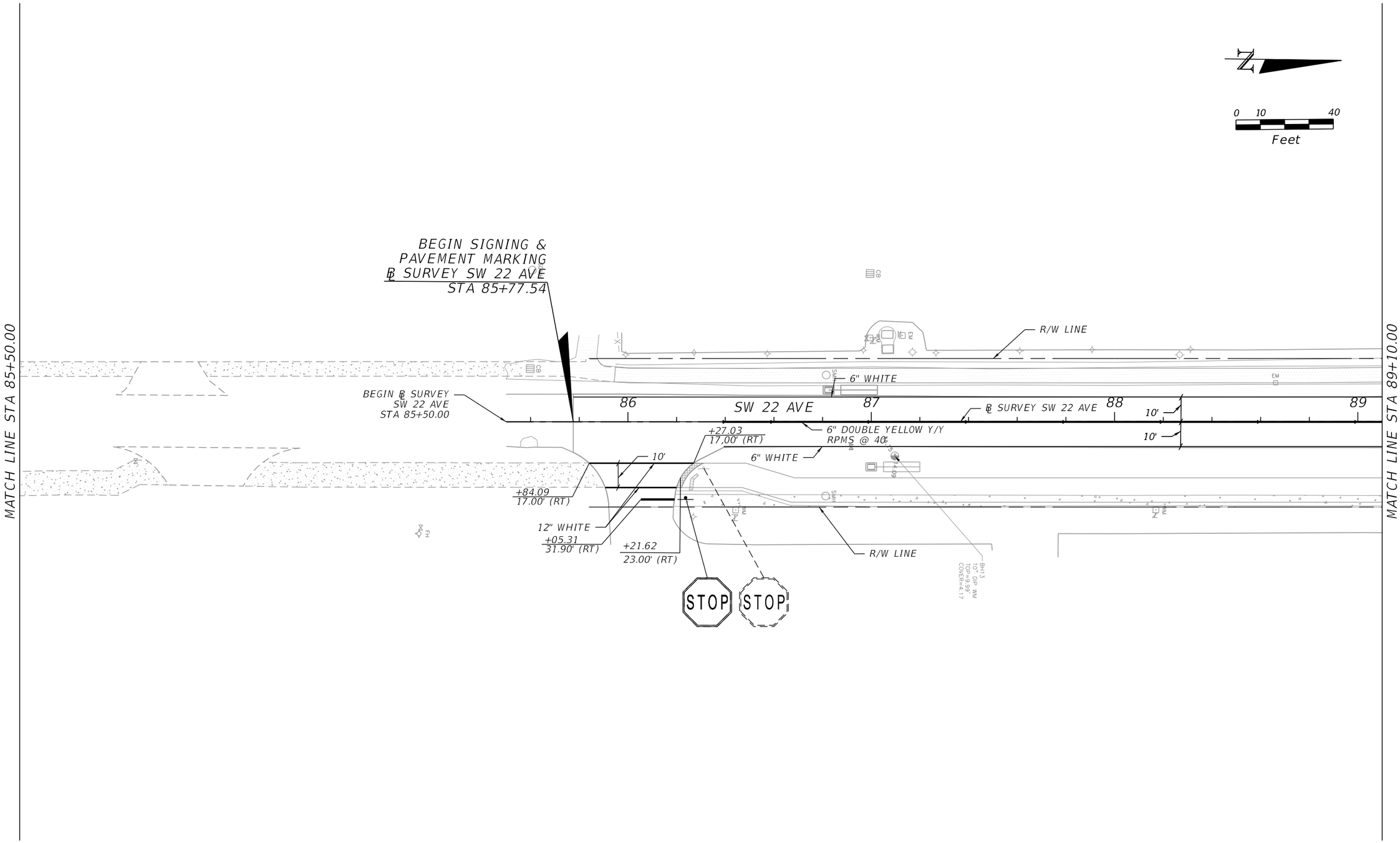
No.	Revisions	By	Date

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Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

OLD GERMANTOWN ROAD

SIGNING AND PAVEMENT MARKING PLAN

SHEET: S-18
OF: S-23
PROJECT NO. 444377-1



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PROPEL
PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:
MAJHARUL ALAM, P.E.
P.E.# 61600

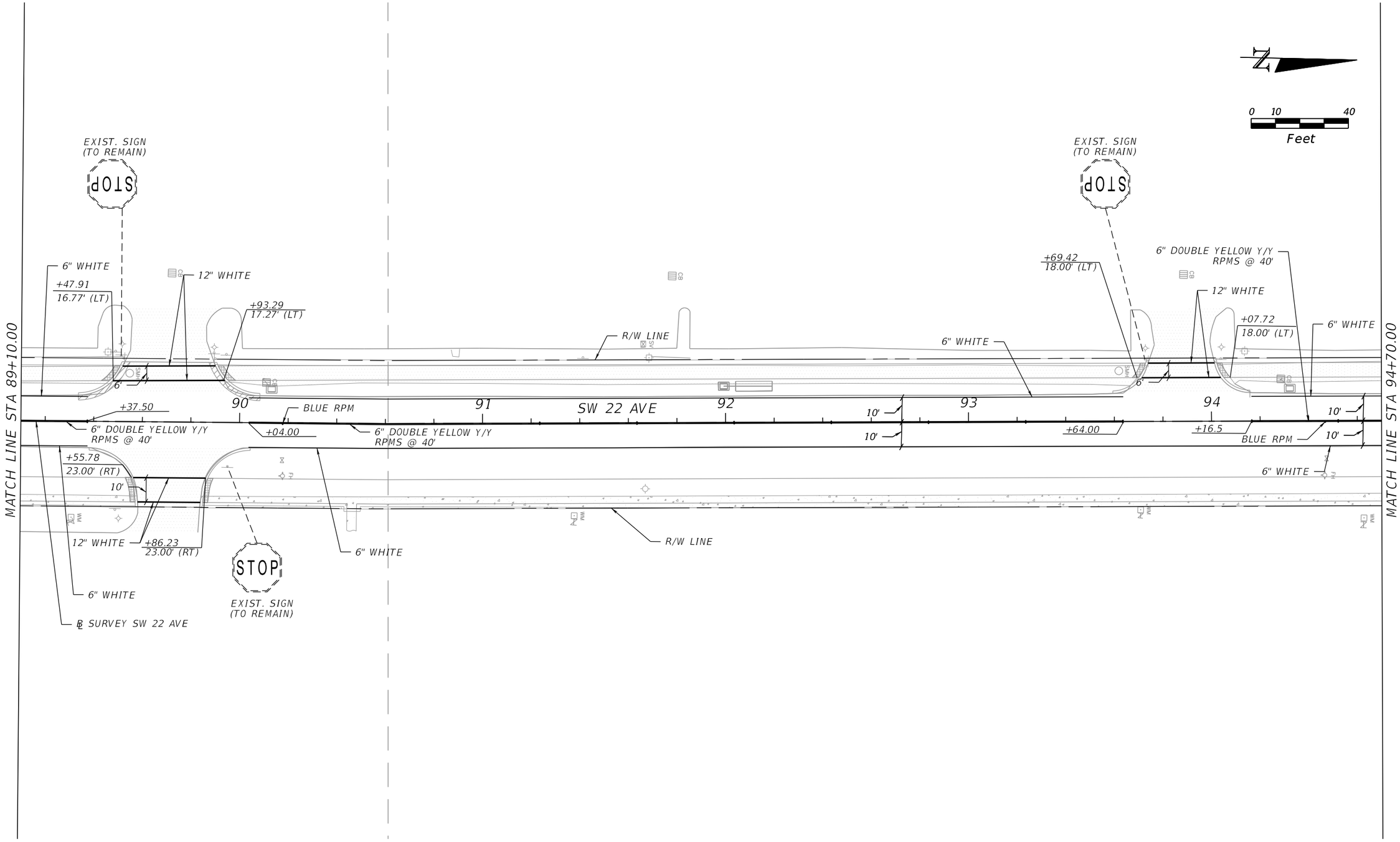
No.	Revisions	By	Date

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PUBLIC WORKS DEPARTMENT
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Phone: (561) 243-7295 Fax: (561)243-7060 www.mydelraybeach.com

SW 22ND AVE
SIGNING AND PAVEMENT MARKING PLAN

SHEET: S-19
OF: S-23
PROJECT NO. 444377-1

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PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:

MAJHARUL ALAM, P.E.
P.E# 61600

No.	Revisions	By	Date

CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
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SW 22ND AVE

SIGNING AND PAVEMENT MARKING PLAN

SHEET: S-20
OF: S-23
PROJECT NO. 444377-1

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N

0 10 40
Feet

MATCH LINE STA 94+70.00

R/W LINE

6" WHITE

95

SW 22 AVE

10'

6" DOUBLE YELLOW Y/Y RPMS @ 40'

96

+12.00

+84.00

97

℄ SURVEY SW 22 AVE

98

10'

99

℄ SURVEY SW 22 AVE

SW 22 AVE

100

12" WHITE

℄ SURVEY OLD GERMANTOWN ROAD

R/W LINE

EXIST. SIGN (TO REMAIN)

SPEED LIMIT 35

+66.89
41.23' (LT)

+32.88
10.17' (LT)

68 OLD GERMANTOWN ROAD

69

12'

+33.41
23.00' (RT)

+65.56
23.00' (RT)

12" WHITE

24" WHITE

+19.99
10.16' (RT)

+63.06
0.25' (LT)

+63.06
12.65' (RT)

+63.00
12.65' (RT)

END SIGNING & PAVEMENT MARKING
℄ SURVEY SW 22 AVE
STA 99+63.06

STOP

EXIST. SIGN (TO REMAIN)

OLD GERMANTOWN RD

SW 22 AVE

END ℄ SURVEY SW 22 AVE STA 100+00.00 = ℄ SURVEY OLD GERMANTOWN ROAD STA 69+22.02

R/W LINE

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PROPEL

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FLORIDA BUSINESS CERT. NO. 31050
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Seal:

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P.E.# 61600

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SW 22ND AVE

SIGNING AND PAVEMENT MARKING PLAN

SHEET: S-21
OF: S-23
PROJECT NO. 444377-1

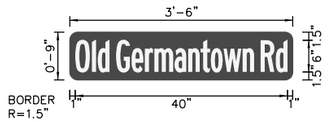
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SIGN NAME	D3-1			QTY	10	SIGN NUMBER	STATION(S)
PANEL		BORDER				1	18+95.00
WIDTH	3'-6"	WIDTH	0"			2	36+60.00
HEIGHT	0'-9"	RADII	1.5"			3	38+50.00
LEGEND	White	COLOR	White			4	51+30.00
COLOR	Green					5	51+45.00

SYMBOL(S)	ANGLE	X	Y	WID	HT

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



Panel Style: Street Name 6-3in no border.ssi
M.U.T.C.D.: 2009 Edition
SERIES E-MODIFIED FONT

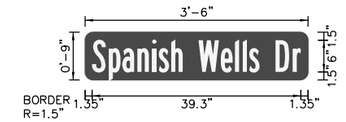
NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

COPY	O	l	d		G	e	r	m	a	n	t	o	w	n		R	d		L														
SPACE	1	4.2	5.3	7.5	8.7	11.6	14.1	15.9	19.7	22.3	24.6	26.6	28.9	32.6	34.7	36	38.8		40														
COPY																																	
SPACE																																	
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SPACE																																	

SIGN NAME	D3-2			QTY	2	SIGN NUMBER	STATION(S)
PANEL		BORDER					18+95.00
WIDTH	3'-6"	WIDTH	0"				
HEIGHT	0'-9"	RADII	1.5"				
LEGEND	White	COLOR	White				
COLOR	Green						

SYMBOL(S)	ANGLE	X	Y	WID	HT

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



Panel Style: Street Name 6-3in no border.ssi
M.U.T.C.D.: 2009 Edition
SERIES E-MODIFIED FONT

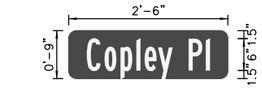
NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

COPY	S	p	a	n	i	s	h		W	e	l	l	s		D	r		L														
SPACE	1.3	4.5	7	9.9	12.6	13.9	16.2	18.4	21.4	25.6	28.2	29.7	30.9	32.9	35.9	39.1		39.3															
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SIGN NAME	D3-3			QTY	2	SIGN NUMBER	STATION(S)
PANEL		BORDER					36+60.00
WIDTH	2'-6"	WIDTH	0"				
HEIGHT	0'-9"	RADII	1.5"				
LEGEND	White	COLOR	White				
COLOR	Green						

SYMBOL(S)	ANGLE	X	Y	WID	HT

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



Panel Style: Street Name 6-3in no border.ssi
M.U.T.C.D.: 2009 Edition
SERIES E-MODIFIED FONT

NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

COPY	C	o	p	l	e	y		P	l		L																						
SPACE	3.4	6.8	9.8	12.8	14.3	16.8	19.6	22.6	25.8		23.2																						
COPY																																	
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SIGN NAME	D3-4			QTY	2	SIGN NUMBER	STATION(S)
PANEL		BORDER					38+50.00
WIDTH	3'-6"	WIDTH	0"				
HEIGHT	0'-9"	RADII	1.5"				
LEGEND	White	COLOR	White				
COLOR	Green						

SYMBOL(S)	ANGLE	X	Y	WID	HT

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



Panel Style: Street Name 6-3in no border.ssi
M.U.T.C.D.: 2009 Edition
SERIES E-MODIFIED FONT

NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

COPY	H	i	g	h	l	a	n	d		G	r	o	v	e		D	r		L														
SPACE	1	4.3	5.6	8.4	11.1	12.3	15.1	17.7	19.9	21.8	25	26.8	29.3	32.2	34.4	36.3	39.4		40														
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PROPEL ENGINEERING, INC.
2711 N VISTA PARKWAY, SUITE NO. B7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:

MAJHARUL ALAM, P.E.
P.E# 61600

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PUBLIC WORKS DEPARTMENT
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GUIDE SIGN WORKSHEET

OLD GERMANTOWN ROAD

SIGNING AND PAVEMENT MARKING PLAN

SHEET: S-22
OF: S-23
PROJECT NO. 444377-1

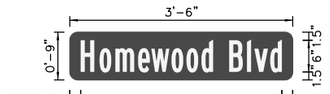
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SIGN NAME	D3-5	QTY	2	SIGN NUMBER	STATION(S)
PANEL		BORDER			51+30.00
WIDTH	3'-6"	WIDTH	0"		
HEIGHT	0'-9"	RADII	1.5"		
LEGEND	White	COLOR	White		
COLOR	Green				

SYMBOL(S)	ANGLE	X	Y	WID	HT

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



Panel Style: Street Name 6-3in no border.ssi
M.U.T.C.D.: 2009 Edition
SERIES E-MODIFIED FONT

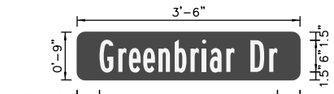
NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

COPY	H	o	m	e	w	o	o	d		B	l	v	d		L										
SPACE	2	5.6	8.6	12.8	15.4	19.1	22	24.8	27	30	33.4	34.7	37.7		37.9										
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SIGN NAME	D3-6	QTY	2	SIGN NUMBER	STATION(S)
PANEL		BORDER			51+45.00
WIDTH	3'-6"	WIDTH	0"		
HEIGHT	0'-9"	RADII	1.5"		
LEGEND	White	COLOR	White		
COLOR	Green				

SYMBOL(S)	ANGLE	X	Y	WID	HT

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



Panel Style: Street Name 6-3in no border.ssi
M.U.T.C.D.: 2009 Edition
SERIES E-MODIFIED FONT

NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

COPY	G	r	e	e	n	b	r	i	a	r		D	r		L										
SPACE	4.2	7.8	9.8	12.5	15.3	18.4	21.4	23.6	25	28.1	29.7	32.7	36.2		33.5										
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SIGN NAME		QTY		SIGN NUMBER	STATION(S)
PANEL		BORDER			
WIDTH		WIDTH			
HEIGHT		RADII			
LEGEND		COLOR			
COLOR					

SYMBOL(S)	ANGLE	X	Y	WID	HT

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH

NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

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SIGN NAME		QTY		SIGN NUMBER	STATION(S)
PANEL		BORDER			
WIDTH		WIDTH			
HEIGHT		RADII			
LEGEND		COLOR			
COLOR					

SYMBOL(S)	ANGLE	X	Y	WID	HT

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH

NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

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Seal:

MAJHARUL ALAM, P.E.
P.E# 61600

No.	Revisions	By	Date

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GUIDE SIGN WORKSHEET

OLD GERMANTOWN ROAD

SIGNING AND PAVEMENT MARKING PLAN

SHEET: S-23
OF: S-23
PROJECT NO. 444377-1

DATE OF SURVEY: FEBRUARY 2023
SURVEY MADE BY: TIERRA SOUTH FLORIDA, INC.
SUBMITTED BY: TIERRA SOUTH FLORIDA, INC.

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
MATERIALS AND RESEARCH

DISTRICT: 4
ROAD NO.:
COUNTY: PALM BEACH

PROJECT NAME: OLD GERMANTOWN RD

FINANCIAL PROJECT ID: 444377-1-58-01

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADS

SURVEY BEGINS STA.: 10+00 SURVEY ENDS STA.: 86+00

REFERENCE: CL CONST GERMANTOWN RD

	ORGANIC CONTENT		MOISTURE CONTENT		SIEVE ANALYSIS RESULTS % PASS						ATTERBERG LIMITS (%)					CORROSION TEST RESULTS				
STRATUM NO.	NO. OF TESTS	% ORGANIC	NO. OF TESTS	% MOISTURE	NO. OF TESTS	10 MESH	40 MESH	60 MESH	100 MESH	200 MESH	NO. OF TESTS	LIQUID LIMIT	PLASTIC INDEX	AASHTO GROUP	DESCRIPTION	NO. OF TESTS	RESISTIVITY ohms-cm	CHLORIDE ppm	SULFATES ppm	pH
1	-	-	-	-	-	-	-	-	-	-	-	-	-	A-8	TOPSOIL	-	-	-	-	-
2	-	-	2	8-12	2	47-71	37-54	30-36	20-22	14-16	-	-	-	A-1-b/A-2-4	LIMEROCK BASE	-	-	-	-	-
3	-	-	3	5-11	3	35-96	36-85	24-62	10-35	3-11	-	-	-	A-1-b/A-2-4	BROWN SAND WITH TRACE SILT AND LIMEROCK	2	7,800-11,000	45-60	6-9	7.8-8.4
4	-	-	3	2-7	3	97-100	83-84	57-59	24-26	1-2	-	-	-	A-3	BROWN SAND WITH TRACE SILT	2	10,200-18,000	30-45	6-9	8.2-9

EMBANKMENT AND SUBGRADE MATERIAL

1. STRATA BOUNDARIES ARE APPROXIMATE AND REPRESENT SOIL STRATA AT EACH BORING LOCATION ONLY. ANY SUBSOIL CONNECTING LINES SHOWN ARE FOR ESTIMATING EARTHWORK ONLY AND DO NOT INDICATE ACTUAL STRATUM LIMITS. SUBSURFACE VARIATIONS BETWEEN BORING SHOULD BE ANTICIPATED AS INDICATED IN STANTRARD SPECIFIFCATIONS SECTION 2-4. FOR FURTHER DETAILS SEE SECTION 120-3.

2. GROUNDWATER LEVEL SHOWN AS (▽) WHERE ENCOUNTERED, GROUNDWATER NOT ENCOUNTERED SHOWN AS "GNE". ESTIMATED SEASONAL HIGH GROUNDWATER LEVEL SHOWN AS (▼). IF ESTIMATED AT OR ABOVE THE BOTTOM OF BORING PROFILE ELEVATION.

3. REMOVAL OF MUCK AND PLASTIC MATERIAL OCCURRING WITHIN THE ROADWAY SHALL BE ACCOMPLISED IN ACCORDANCE WITH STANDARD PLANS INDEX 120-002, UNLESS OTHERWISE SHOWN ON THE PLANS. THE MATERIAL UTILIZED IN EMBANKMENT CONSTRUCTION SHALL BE IN ACCORDANCE WITH STANDARD PLANS INDEX 120-001.

4. SOIL ANALYSIS INCLUDEDS DATA FROM ROADWAY AREAS AND RAMP AREAS, AS NOTED IN LIMITS ABOVE.

5. THE SYMBOL "-" REPRESENTS AN UNMEASURED PARAMETER, NP REPRESENTS NON PLASTIC.

6. STRATUM 1 CONSISTS OF TOPSOIL (A-8) AND SHOULD BE STRIPPED FROM THE NEW PAVEMENT AND EMBANKMENT AREAS IN ACCORDANCE WITH STANDARD SPECIFICATIONS SECTION 120 - EXCAVATION AND EMBANKMENT.

7. STRATUM 2 CONSISTS OF LIMEROCK BASE (A-1-b/A-2-4). THESE MATERIALS APPEAR TO BE SUITABLE TO USE IN SUBGRADE AND EMBANKMENT AND SHOULD BE UTILIZED ACCORDING TO STANDARD PLANS INDEX 120-001.

8. STRATUM 3 CONSISTS OF BROWN SAND WITH TRACE SILT AND LIMEROCK (A-1-b/A-2-4). THIS MATERIAL APPEARS TO BE SUITABLE TO USE IN SUBGRADE AND EMBANKMENT SUPPORT AND SHOULD BE UTILIZED ACCORDING TO STANDARD PLANS INDEX 120-001. HOWEVER, THIS MATERIAL IS LIKELY TO RETAIN EXCESS MOISTURE AND MAY BE DIFFICULT TO DRY AND COMPACT. IT MAY BE USED IN THE EMBANKMENT ABOVE THE WATER LEVEL EXISTING AT THE TIME OF CONSTRUCTION AND SHOULD BE USED ACCORDING TO STANDARD PLANS INDEX 120-001. IT MAY BE USED IN THE SUBGRADE PORTION OF THE ROADBED WHEN APPROVED BY THE DISTRICT MATERIALS ENGINEER. MATERIAL PLACED BELOW THE EXISTING WATER LEVEL MUST BE NON-PLASTIC AND CONTAIN LESS THAN 15% PASSING THE NO . 200 U.S. STANDARD SIEVE.

9. STRATUM 4 CONSISTS OF BROWN SAND WITH TRACE SILT (A-3). THESE MATERIALS APPEAR TO BE SUITABLE TO USE IN SUBGRADE AND EMBANKMENT AND SHOULD BE UTILIZED ACCORDING TO STANDARD PLANS INDEX 120-001.

10. ALPHA SUFFIXES ADJACENT TO THE STRATUM NUMBERS ON THE PROFILES REPRESENT ADDITIONAL NOTES OF MATERIALS AS FOLLOWS: A - WITH CEMENTATION

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2765 VISTA PARKWAY, SUITE-H10
WEST PALM BEACH, FL 33411

Seal:
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NO:	REVISION:	BY:	DATE:

CITY OF DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
Phone: (561) 243-7322 Fax: (561) 243-7060 www.mydelraybeach.com

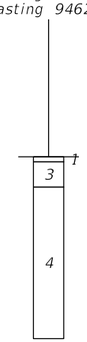
GERMANTOWN ROAD

ROADWAY SOIL SURVEY

SHEET: GR-1
PROJECT NO. 444377-1

12/7/2023 8:38:23 AM J:\Tierra Documents\Projects\TSF 2022\7111-22-301 Old Germantown Road to South of Congress Avenue (Propel Engineering)\Geotechnical_Private\7111_22-301_sProfiles.dgn

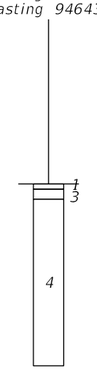
Bore # B-01
Reference CL CONST GERMAN TOWN RD
Station 12+91
Offset 21 FT LT
Elevation 15.8'
Date 2/15/2023
Latitude 26.4387948
Longitude -80.1135095
Northing 766177.039
Easting 946251.483



GNE

Boring Terminated at Elev. 9.8ft

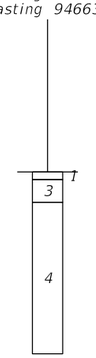
Bore # B-02
Reference CL CONST GERMAN TOWN RD
Station 14+94
Offset 11 FT RT
Elevation 14.9'
Date 2/15/2023
Latitude 26.4385214
Longitude -80.1129387
Northing 766078.944
Easting 946438.959



GNE

Boring Terminated at Elev. 8.9ft

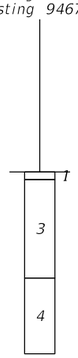
Bore # B-03
Reference CL CONST GERMAN TOWN RD
Station 16+89
Offset 17 FT LT
Elevation 15.3'
Date 2/15/2023
Latitude 26.4384064
Longitude -80.1123506
Northing 766038.469
Easting 946631.7



GNE

Boring Terminated at Elev. 9.3ft

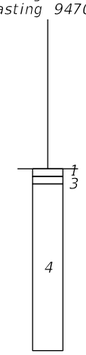
Bore # B-04
Reference CL CONST GERMAN TOWN RD
Station 18+65
Offset 12 FT RT
Elevation 15.3'
Date 2/15/2023
Latitude 26.4381649
Longitude -80.1118767
Northing 765951.752
Easting 946787.387



GNE

Boring Terminated at Elev. 9.3ft

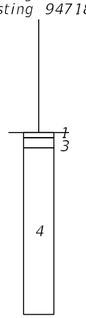
Bore # B-05
Reference CL CONST GERMAN TOWN RD
Station 20+92
Offset 16 FT LT
Elevation 15.4'
Date 2/15/2023
Latitude 26.4380191
Longitude -80.1111964
Northing 765900.291
Easting 947010.379



GNE

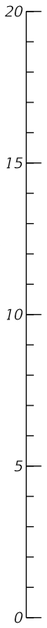
Boring Terminated at Elev. 9.4ft

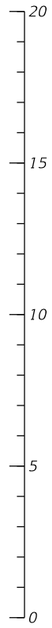
Bore # B-06
Reference CL CONST GERMAN TOWN RD
Station 22+92
Offset 12 FT RT
Elevation 16.6'
Date 2/15/2023
Latitude 26.4377542
Longitude -80.1106517
Northing 765805.23
Easting 947189.296



GNE

Boring Terminated at Elev. 10.6ft





LEGEND

∇ Encountered Groundwater Table
GNE Groundwater Not Encountered
(A-3) AASHTO Classification System

1. Topsoil (A-8)
2. Limerock Base (A-1-b/A-2-4)
3. Brown Sand with trace Silt and Limerock (A-1-b/A-2-4)
4. Brown Sand with trace of Silt (A-3)

A. with Cementation

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2765 VISTA PARKWAY, SUITE-H10
WEST PALM BEACH, FL 33411

Seal:

xx P.E# x

NO:	REVISION:	BY:	DATE:

CITY OF DELRAY BEACH
PUBLIC WORKS DEPARTMENT
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Phone: (561) 243-7322 Fax: (561) 243-7060 www.mydelraybeach.com

GERMANTOWN ROAD

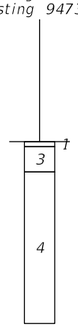
ROADWAY SOIL PROFILES

SHEET: GR-2

PROJECT NO. 444377-1

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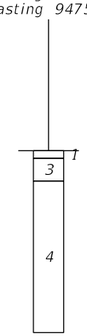
Bore # B-07
Reference CL CONST GERMAN TOWN RD
Station 24+91
Offset 18 FT LT
Elevation 16.3'
Date 2/15/2023
Latitude 26.4376397
Longitude -80.1100504
Northing 765764.969
Easting 947386.357



GNE

Boring Terminated at Elev. 10.3ft

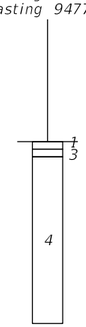
Bore # B-08
Reference CL CONST GERMAN TOWN RD
Station 26+92
Offset 13 FT RT
Elevation 16'
Date 2/15/2023
Latitude 26.4373683
Longitude -80.1095097
Northing 765667.538
Easting 947563.983



GNE

Boring Terminated at Elev. 10ft

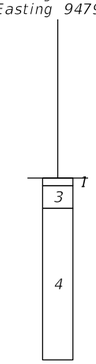
Bore # B-09
Reference CL CONST GERMAN TOWN RD
Station 28+93
Offset 24 FT LT
Elevation 16.3'
Date 2/15/2013
Latitude 26.4372696
Longitude -80.1088936
Northing 765633.056
Easting 947765.849



GNE

Boring Terminated at Elev. 10.3ft

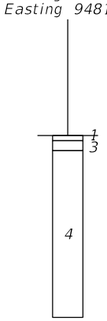
Bore # B-10
Reference CL CONST GERMAN TOWN RD
Station 30+93
Offset 14 FT RT
Elevation 15.1'
Date 2/15/2023
Latitude 26.4369801
Longitude -80.1083626
Northing 765529.025
Easting 947940.347



GNE

Boring Terminated at Elev. 9.1ft

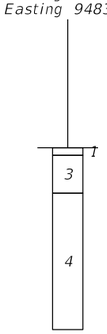
Bore # B-11
Reference CL CONST GERMAN TOWN RD
Station 32+88
Offset 20 FT LT
Elevation 16.5'
Date 2/15/2023
Latitude 26.4368809
Longitude -80.1077672
Northing 765494.316
Easting 948135.442



GNE

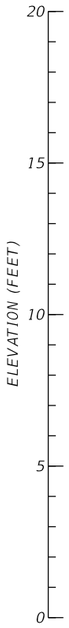
Boring Terminated at Elev. 10.5ft

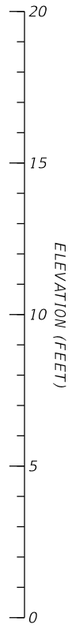
Bore # B-12
Reference CL CONST GERMAN TOWN RD
Station 34+93
Offset 14 FT RT
Elevation 16.1'
Date 2/15/2023
Latitude 26.4365948
Longitude -80.1072163
Northing 765391.568
Easting 948316.445



GNE

Boring Terminated at Elev. 10.1ft





LEGEND

∇	Encountered Groundwater Table
GNE	Groundwater Not Encountered
(A-3)	AASHTO Classification System

1. Topsoil (A-8)
2. Limerock Base (A-1-b/A-2-4)
3. Brown Sand with trace Silt and Limerock (A-1-b/A-2-4)
4. Brown Sand with trace of Silt (A-3)

A. with Cementation

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WEST PALM BEACH, FL 33411

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CITY OF DELRAY BEACH
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GERMANTOWN ROAD

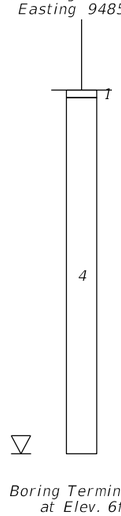
ROADWAY SOIL PROFILES

SHEET: GR-3

PROJECT NO. 444377-1

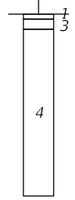
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Bore # B-13
Reference CL CONST GERMAN TOWN RD
Station 37+06
Offset 19 FT LT
Elevation 18'
Date 2/15/2023
Latitude 26.4364756
Longitude -80.1065728
Northing 765349.699
Easting 948527.332



Boring Terminated at Elev. 6ft

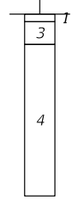
Bore # B-14
Reference CL CONST GERMAN TOWN RD
Station 38+91
Offset 16 FT RT
Elevation 18.1'
Date 2/15/2023
Latitude 26.4362094
Longitude -80.1060783
Northing 765254.058
Easting 948689.83



GNE

Boring Terminated at Elev. 12.1ft

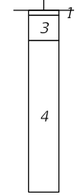
Bore # B-15
Reference CL CONST GERMAN TOWN RD
Station 40+85
Offset 21 FT LT
Elevation 18.1'
Date 2/15/2023
Latitude 26.4361173
Longitude -80.1054832
Northing 765221.933
Easting 948884.81



GNE

Boring Terminated at Elev. 12.1ft

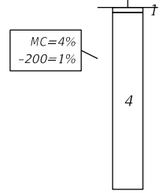
Bore # B-16
Reference CL CONST GERMAN TOWN RD
Station 42+94
Offset 15 FT RT
Elevation 17.6'
Date 2/15/2023
Latitude 26.4358231
Longitude -80.1049232
Northing 765116.264
Easting 949068.815



GNE

Boring Terminated at Elev. 11.6ft

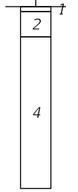
Bore # B-17
Reference CL CONST GERMAN TOWN RD
Station 44+90
Offset 18 FT LT
Elevation 16.8'
Date 2/16/2023
Latitude 26.4357207
Longitude -80.1043259
Northing 765080.401
Easting 949264.543



GNE

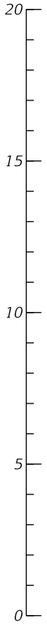
Boring Terminated at Elev. 10.8ft

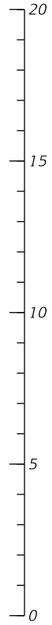
Bore # B-18
Reference CL CONST GERMAN TOWN RD
Station 46+62
Offset 13 FT RT
Elevation 16.3'
Date 2/16/2023
Latitude 26.4354755
Longitude -80.1038663
Northing 764992.317
Easting 949415.569



GNE

Boring Terminated at Elev. 10.3ft





LEGEND

▽	Encountered Groundwater Table
GNE	Groundwater Not Encountered
(A-3)	AASHTO Classification System

1. Topsoil (A-8)
2. Limerock Base (A-1-b/A-2-4)
3. Brown Sand with trace Silt and Limerock (A-1-b/A-2-4)
4. Brown Sand with trace of Silt (A-3)

A. with Cementation

HARMON BENNETT, P.E.
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WEST PALM BEACH, FL 33411

Seal:

xx P.E# x

NO:	REVISION:	BY:	DATE:

CITY OF DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
Phone: (561) 243-7322 Fax: (561) 243-7060 www.mydelraybeach.com

GERMANTOWN ROAD

ROADWAY SOIL PROFILES

SHEET: GR-4

PROJECT NO. 444377-1

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Bore # B-19
Reference CL CONST GERMAN TOWN RD
Station 48+94
Offset 18 FT LT
Elevation 16.4'
Date 2/16/2023
Latitude 26.4353319
Longitude -80.1031697
Northing 764941.706
Easting 949643.898

GNE

Boring Terminated at Elev. 10.4ft

Bore # B-20
Reference CL CONST GERMAN TOWN RD
Station 50+91
Offset 19 FT RT
Elevation 16'
Date 2/16/2023
Latitude 26.4350485
Longitude -80.1026448
Northing 764839.886
Easting 949816.392

GNE

Boring Terminated at Elev. 10ft

Bore # B-21
Reference CL CONST GERMAN TOWN RD
Station 52+93
Offset 20 FT LT
Elevation 15.8'
Date 2/16/2023
Latitude 26.4349539
Longitude -80.1020245
Northing 764806.915
Easting 950019.629

GNE

Boring Terminated at Elev. 9.8ft

Bore # B-22
Reference CL CONST GERMAN TOWN RD
Station 54+97
Offset 18 FT RT
Elevation 16'
Date 2/16/2023
Latitude 26.4346616
Longitude -80.1014828
Northing 764701.899
Easting 950197.645

GNE

Boring Terminated at Elev. 10ft

Bore # B-23
Reference CL CONST GERMAN TOWN RD
Station 56+90
Offset 23 FT LT
Elevation 16'
Date 2/16/2023
Latitude 26.4345818
Longitude -80.1008869
Northing 764674.254
Easting 950392.86

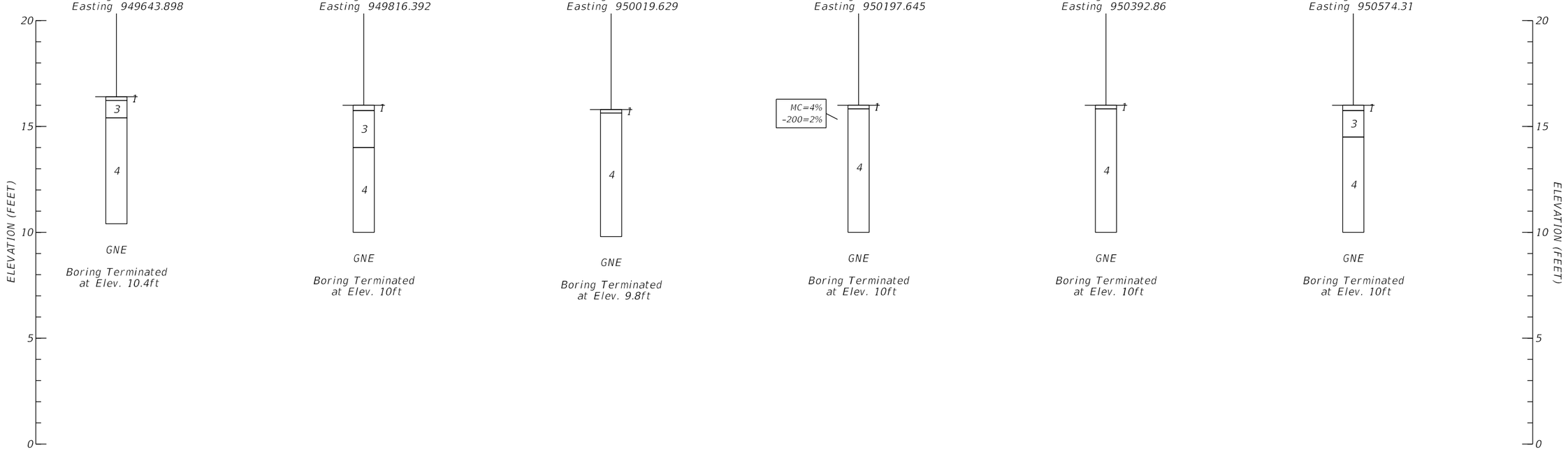
GNE

Boring Terminated at Elev. 10ft

Bore # B-24
Reference CL CONST GERMAN TOWN RD
Station 58+96
Offset 13 FT RT
Elevation 16'
Date 2/16/2023
Latitude 26.434291
Longitude -80.1003347
Northing 764569.81
Easting 950574.31

GNE

Boring Terminated at Elev. 10ft



LEGEND

∇	Encountered Groundwater Table
GNE	Groundwater Not Encountered
(A-3)	AASHTO Classification System

1. Topsoil (A-8)
2. Limerock Base (A-1-b/A-2-4)
3. Brown Sand with trace Silt and Limerock (A-1-b/A-2-4)
4. Brown Sand with trace of Silt (A-3)

A. with Cementation

HARMON BENNETT, P.E.
P.E. LICENSE NUMBER 53130
TIERRA SOUTH FLORIDA, INC.
2765 VISTA PARKWAY, SUITE-H10
WEST PALM BEACH, FL 33411

Seal:

xx
P.E# x

NO:	REVISION:	BY:	DATE:

CITY OF DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
Phone: (561) 243-7322 Fax: (561) 243-7060 www.mydelraybeach.com

GERMANTOWN ROAD

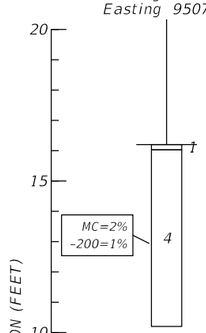
ROADWAY SOIL PROFILES

SHEET: GR-5

PROJECT NO. 444377-1

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Bore # B-25
Reference CL CONST GERMAN TOWN RD
Station 60+90
Offset 24 FT LT
Elevation 16.2'
Date 2/16/2023
Latitude 26.4342934
Longitude -80.0997265
Northing 764572.074
Easting 950773.342



GNE

Boring Terminated at Elev. 10.2ft

Bore # B-26
Reference CL CONST GERMAN TOWN RD
Station 63+47
Offset 9 FT RT
Elevation 16.9'
Date 2/16/2023
Latitude 26.434095
Longitude -80.098968
Northing 764501.692
Easting 951022.072

GNE

Boring Terminated at Elev. 10.9ft

Bore # B-27
Reference CL CONST GERMAN TOWN RD
Station 64+91
Offset 13 FT RT
Elevation 16.1'
Date 2/16/2023
Latitude 26.4342094
Longitude -80.0985356
Northing 764544.268
Easting 951163.287

GNE

Boring Terminated at Elev. 10.1ft

Bore # B-28
Reference CL CONST GERMAN TOWN RD
Station 66+95
Offset 26 FT LT
Elevation 16.8'
Date 2/16/2023
Latitude 26.4345117
Longitude -80.0979971
Northing 764655.39
Easting 951338.745

GNE

Boring Terminated at Elev. 10.8ft

Bore # B-29
Reference CL CONST GERMAN TOWN RD
Station 68+88
Offset 36 FT RT
Elevation 17.2'
Date 2/16/2023
Latitude 26.434543
Longitude -80.097377
Northing 764668.19
Easting 951541.598

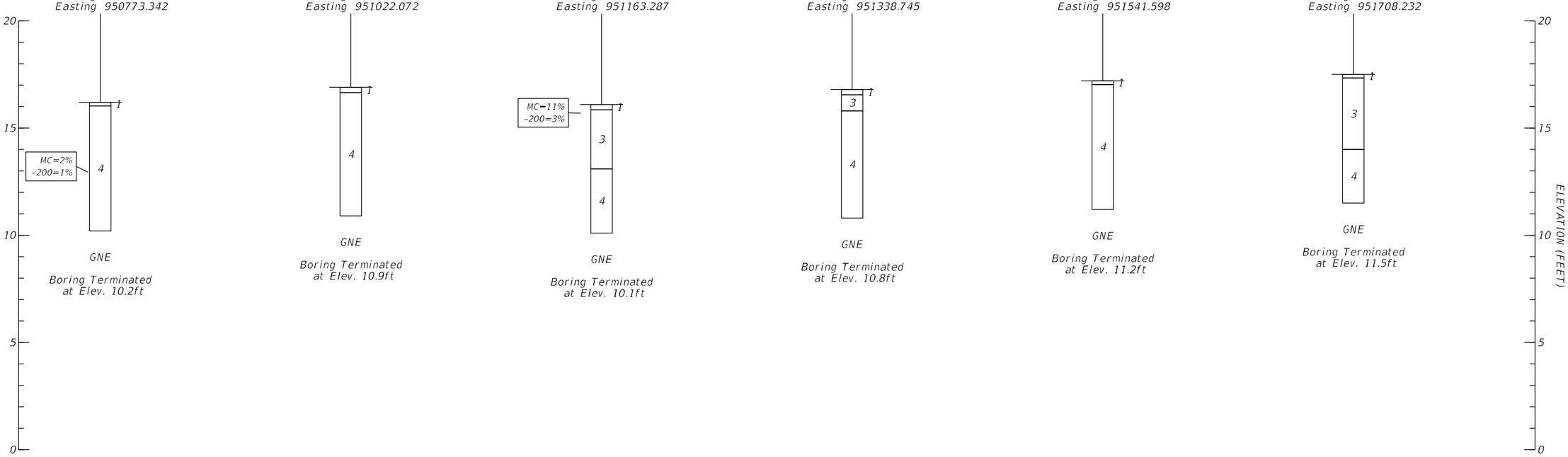
GNE

Boring Terminated at Elev. 11.2ft

Bore # B-30
Reference CL CONST GERMAN TOWN RD
Station 70+92
Offset 27 FT LT
Elevation 17.5'
Date 2/16/2023
Latitude 26.4349041
Longitude -80.096865
Northing 764800.628
Easting 951708.232

GNE

Boring Terminated at Elev. 11.5ft



LEGEND

∇ Encountered Groundwater Table
GNE Groundwater Not Encountered
(A-3) AASHTO Classification System

1. Topsoil (A-8)
2. Limerock Base (A-1-b/A-2-4)
3. Brown Sand with trace Silt and Limerock (A-1-b/A-2-4)
4. Brown Sand with trace of Silt (A-3)

A. with Cementation

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Seal:

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GERMANTOWN ROAD

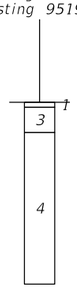
ROADWAY SOIL PROFILES

SHEET: GR-6

PROJECT NO. 444377-1

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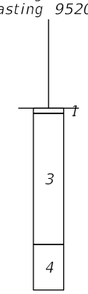
Bore # B-31
Reference CL CONST GERMAN TOWN RD
Station 72+92
Offset 22 FT RT
Elevation 17.6'
Date 2/16/2023
Latitude 26.4349777
Longitude -80.0962422
Northing 764828.812
Easting 951911.859



GNE

Boring Terminated at Elev. 11.6ft

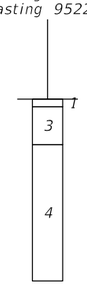
Bore # B-32
Reference CL CONST GERMAN TOWN RD
Station 74+96
Offset 29 FT LT
Elevation 17.4'
Date 2/16/2023
Latitude 26.435309
Longitude -80.0957134
Northing 764950.457
Easting 952084.066



GNE

Boring Terminated at Elev. 11.4ft

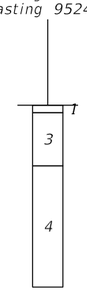
Bore # B-33
Reference CL CONST GERMAN TOWN RD
Station 76+91
Offset 16 FT LT
Elevation 17.7'
Date 2/16/2023
Latitude 26.4353851
Longitude -80.0951089
Northing 764979.511
Easting 952281.697



GNE

Boring Terminated at Elev. 11.7ft

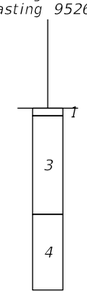
Bore # B-34
Reference CL CONST GERMAN TOWN RD
Station 78+96
Offset 31 FT LT
Elevation 17.5'
Date 2/16/2023
Latitude 26.435709
Longitude -80.0945755
Northing 765098.478
Easting 952455.427



GNE

Boring Terminated at Elev. 11.5ft

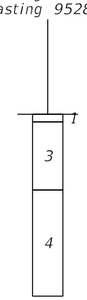
Bore # B-35
Reference CL CONST GERMAN TOWN RD
Station 80+92
Offset 18 FT RT
Elevation 17.4'
Date 2/16/2023
Latitude 26.4357773
Longitude -80.0939636
Northing 765124.714
Easting 952655.499



GNE

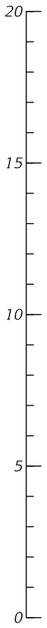
Boring Terminated at Elev. 11.4ft

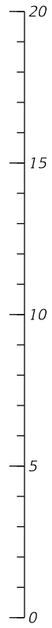
Bore # B-36
Reference CL CONST GERMAN TOWN RD
Station 82+96
Offset 28 FT LT
Elevation 17.2'
Date 2/16/2023
Latitude 26.4360963
Longitude -80.0934306
Northing 765241.901
Easting 952829.108



GNE

Boring Terminated at Elev. 11.2ft





LEGEND

∇	Encountered Groundwater Table
GNE	Groundwater Not Encountered
(A-3)	AASHTO Classification System

1. Topsoil (A-8)
2. Limerock Base (A-1-b/A-2-4)
3. Brown Sand with trace Silt and Limerock (A-1-b/A-2-4)
4. Brown Sand with trace of Silt (A-3)

A. with Cementation

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GERMANTOWN ROAD

ROADWAY SOIL PROFILES

SHEET: GR-7

PROJECT NO. 444377-1

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Bore # B-37
Reference CL CONST GERMAN TOWN RD
Station 84+83
Offset 23 FT RT
Elevation 18.3'
Date 2/16/2023
Latitude 26.4361483
Longitude -80.0928433
Northing 765262.158
Easting 953021.17

GNE

Boring Terminated
at Elev. 12.3ft

Bore # BHP-1
Reference CL CONST GERMAN TOWN RD
Station 11+00
Offset 31 FT LT
Elevation 14.8279'
Date 2/15/2023
Latitude 26.438877
Longitude -80.114115
Northing 766205.554
Easting 946053.13

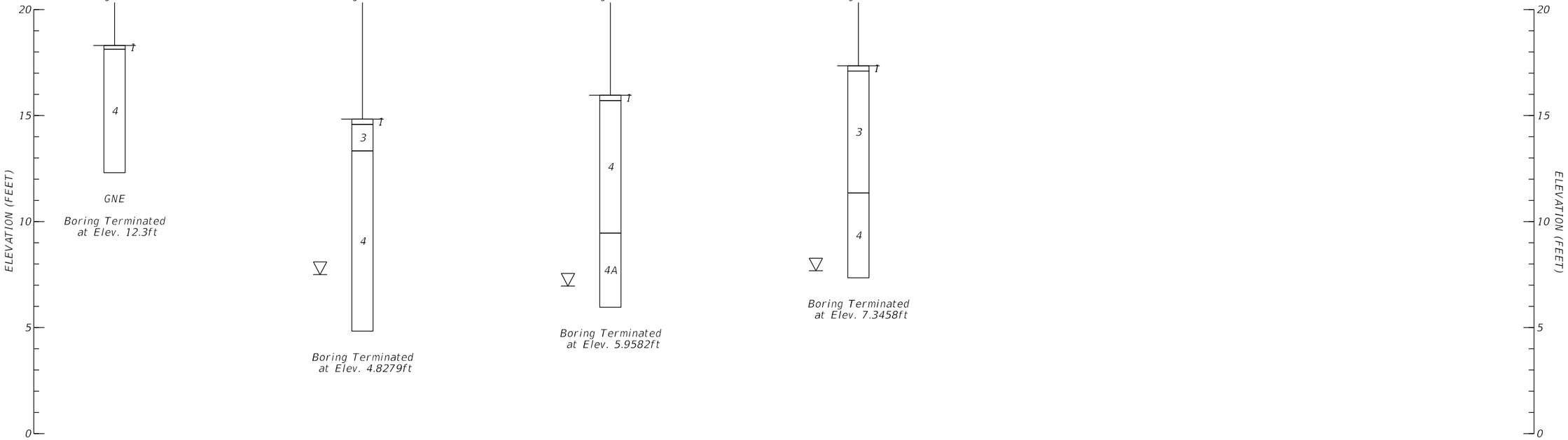
Boring Terminated
at Elev. 4.8279ft

Bore # BHP-2
Reference CL CONST GERMAN TOWN RD
Station 54+87
Offset 21 FT LT
Elevation 15.9582'
Date 2/15/2023
Latitude 26.434776
Longitude -80.101486
Northing 764743.477
Easting 950196.307

Boring Terminated
at Elev. 5.9582ft

Bore # BHP-3
Reference CL CONST GERMAN TOWN RD
Station 80+17
Offset 21 FT RT
Elevation 17.3458'
Date 2/15/2023
Latitude 26.435687
Longitude -80.094192
Northing 765091.364
Easting 952580.985

Boring Terminated
at Elev. 7.3458ft



LEGEND

∇ Encountered Groundwater Table
GNE Groundwater Not Encountered
(A-3) AASHTO Classification System

1. Topsoil (A-8)
2. Limerock Base (A-1-b/A-2-4)
3. Brown Sand with trace Silt and Limerock (A-1-b/A-2-4)
4. Brown Sand with trace of Silt (A-3)

A. with Cementation

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WEST PALM BEACH, FL 33411

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GERMANTOWN ROAD

ROADWAY SOIL PROFILES

SHEET: GR-8
PROJECT NO. 444377-1

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