CONSTRUCTION PLANS
FOR
9TH AVENUE NW

MANATEE COUNTY, FLORIDA
OCTOBER 2025
MANATEE COUNTY PROJECT # 20-TA003483CD

CONTRACT PLANS COMPONENTS

ROADWAY PLANS
SIGNING AND PAVEMENT MARKINGS PLANS
LIGHTING PLANS

PROJECT TEAM:

OWNER:
MANATEE COUNTY
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941-748-4501 EXT. 7326

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CONTACT:JOHN MATTHEWS
941-748-4693

ENGINEER:
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CONTACT: JORDAN LEEP, P.E.
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UTILITY CONTACTS

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
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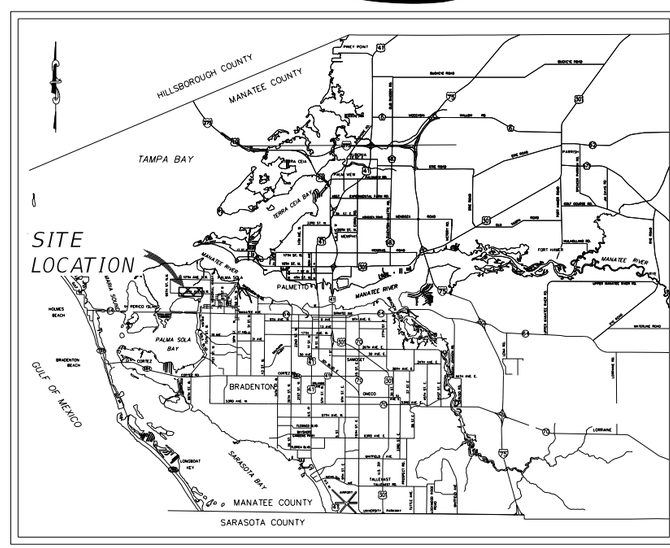
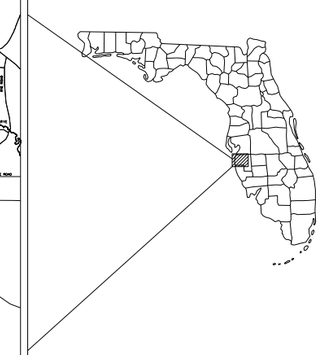
MANATEE COUNTY
PUBLIC WORK DEPT.
TRAFFIC ENGINEERING
MUKUNDA GOPALAKRISHNA, P.E., P.T.O.E.
PUBLIC WORKS DEPARTMENT
COUNTY TRAFFIC ENGINEER
2101 47TH TERRACE EAST
BRADENTON, FL 34203
OFFICE: (941) 749-3500, EXT. 7813





PROJECT VICINITY MAP
N.T.S.

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* THESE SHEETS ARE INCLUDED IN THE INDEX OF ROADWAY PLANS ONLY TO INDICATE THAT THEY ARE PART OF THE ROADWAY PLANS. THESE PLANS ARE CONTAINED IN A SEPARATE DIGITALLY SIGNED AND SEALED DOCUMENT.

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2025-26 Standard Plans for Road and Bridge Construction and applicable Interim Revions (IRs)

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

APPLICABLE IRs: NONE

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, FY2025-26 Standard Specifications for Road and Bridge Construction at the following website: http://www.fdot.gov/programmanagement/Implemented/SpecBooks

COUNTY CIP PROJECT
BID PLANS

PREPARED BY
Kimley»Horn

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THE SITE CONSTRUCTION STAKEOUT SHALL BE PERFORMED UNDER THE DIRECTION OF A FLORIDA REGISTERED SURVEYOR. AUTOCAD FILES WILL BE FURNISHED TO AID IN THE SITE CONSTRUCTION STAKEOUT. ANY DISCREPANCIES FOUND BETWEEN AUTOCAD FILES AND SITE CONSTRUCTION PLANS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR CLARIFICATION PRIOR TO THAT STAKEOUT.

No.	REVISIONS	DATE	BY

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JORDAN E. LEEP, P.E.
FLORIDA LICENSE NUMBER: 76102
DATE:

DATE
OCTOBER 2025

KHA PROJECT NO.
148400070

SHEET NUMBER
1

JORDAN E. LEEP
LICENSE
No 76102
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

Jordan E Leep Digitally signed by Jordan E Leep Date: 2025.10.02 14:46:21-04'00'

ON THE DATE ADJACENT TO THE SEAL.

SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

KIMLEY-HORN AND ASSOCIATES, INC.
1800 SECOND STREET, SUITE 900
SARASOTA, FLORIDA 34236
JORDAN E. LEEP, P.E. NO. 76102

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

ROADWAY PLANS

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Kimley»Horn

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1800 SECOND STREET, SUITE 900, SARASOTA, FL 34236
PHONE: 941-379-7600
WWW.KIMLEY-HORN.COM

KHA PROJECT 148400070
DATE 10/02/2025
SCALE AS SHOWN
DESIGNED BY
DRAWN BY
CHECKED BY

Manatee County FLORIDA

9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

SIGNATURE SHEET

SHEET NUMBER 2

CIP 1: 92ND ST. NW TO 99TH ST. NW

ITEM NO.	ITEM DESCRIPTION	UNIT	PROJECT QUANTITY
Roadway			
101 1	MOBILIZATION	LS	1
102 2	MAINTENANCE OF TRAFFIC	LS	1
104 10 3	SEDIMENT BARRIER	LF	9670
104 11	FLOATING TURBIDITY BARRIER	LF	47
104 12	STAKED TURBIDITY BARRIER- NYLON REINFORCED PVC	LF	548
104 18	INLET PROTECTION SYSTEM	EA	10
107 1	LITTER REMOVAL	AC	79.95
107 2	MOWING	AC	38.62
110 1 1	CLEARING & GRUBBING	AC	2.68
110 4 10	REMOVAL OF EXISTING CONCRETE	SY	2177
110 7 1	MAILBOX, F&I SINGLE	EA	8
120 1	REGULAR EXCAVATION	CY	449.0
120 2 2	BORROW EXCAVATION, TRUCK MEASURE	CY	3531.0
120 4	SUBSOIL EXCAVATION	CY	1123.0
120 6	EMBANKMENT	CY	449.0
160 4	TYPE B STABILIZATION	SY	3375
285 706	OPTIONAL BASE, BASE GROUP 06	SY	2174
327 70 6	MILLING EXISTING ASPHALT PAVEMENT, 1 1/2" DEPTH	SY	15484
334 1 53	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC C, PG76-22	TN	396.8
334 1 53	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC C, PG76-22 (OVERBUILD)	TN	873.7
337 7 83	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC C, FC-12.5	TN	1449.4
339 1	MISCELLANEOUS ASPHALT PAVEMENT	TN	20.8
520 1 10	CONCRETE CURB & GUTTER, TYPE F	LF	3610
520 2 2	CONCRETE CURB, TYPE B	LF	34
520 2 100	CONCRETE CURB, RIBBON CURB	LF	32
522 1	CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK	SY	2681
522 2	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	SY	645
524 1 2	CONCRETE DITCH PAVEMENT, NON REINFORCED, 4"	SY	115
524 3	CONC CORE DITCH BLOCKS	CY	0.9
526 2 1	DRIVEWAY BRICK REPLACEMENT	SY	9
527 2	DETECTABLE WARNINGS	SF	385
530 3 4	RIPRAP, F&I, DITCH LINING	TN	92.1
536 1 1	GUARDRAIL - ROADWAY, GENERAL TL-3	LF	657
536 73	GUARDRAIL REMOVAL	LF	80
536 85 20	GUARDRAIL END TREATMENT- TRAILING ANCHORAGE	EA	1
536 85 24	GUARDRAIL END TREATMENT - PARALLEL APPROACH TERMINAL	EA	1
570 1 2	PERFORMANCE TURF, SOD	SY	9886
590 70 1	IRRIGATION SYSTEM - REPAIRS	LS	1
Signing			
700 1 111	SINGLE COLUMN GROUND SIGN ASSEMBLY, F&I GROUND MOUNT, LESS THAN 12 SF	EA	53
700 1 112	SINGLE COLUMN GROUND SIGN ASSEMBLY, F&I GROUND MOUNT, 12.0-20.0 SF	EA	1
700 1 500	SINGLE COLUMN GROUND SIGN ASSEMBLY, RELOCATE	EA	5
700 1 600	SINGLE COLUMN GROUND SIGN ASSEMBLY, REMOVE	EA	25
705 11 1	DELINEATOR, FLEXIBLE TUBULAR	EA	129
706 1 3	RAISED PAVEMENT MARKER, TYPE B	EA	553
710 90	PAINTED PAVEMENT MARKINGS - FINAL SURFACE	LS	1
711 11 123	THERMOPLASTIC, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	LF	787
711 11 124	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18" FOR DIAGONALS AND CHEVRONS	LF	1069
711 11 125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF	129
711 11 130	THERMOPLASTIC, STANDARD, WHITE, VERTICAL DEFLECTION MARKING	EA	22
711 11 140	THERMOPLASTIC, STANDARD, WHITE, VERTICAL DEFLECTION ADVANCED WARNING MARKING	EA	6
711 11 141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE / 6-10 GAP EXTENSION, 6"	GM	0.047
711 11 241	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE / 6-10 GAP EXTENSION, 6"	GM	0.015
711 14 125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF	425
711 14 160	THERMOPLASTIC, PREFORMED, WHITE, MESSAGE	EA	22
711 14 170	THERMOPLASTIC, PREFORMED, WHITE, ARROW	EA	22
711 16 101	THERMOPLASTIC, STANDARD - OTHER SURFACES, WHITE, SOLID, 6"	GM	2.247
711 16 201	THERMOPLASTIC, STANDARD - OTHER SURFACES, YELLOW, SOLID, 6"	GM	1.633
711 16 231	THERMOPLASTIC, STANDARD - OTHER SURFACES, YELLOW, SKIP, 6"	GM	0.476

ITEM NO.	ITEM DESCRIPTION	UNIT	PROJECT QUANTITY
714 10	GREEN-COLORED PAVEMENT MARKINGS, BIKE LANE	SF	7581
Drainage			
425 1351	INLETS, CURB, TYPE P-5, <10'	EA	2
425 1391	INLETS, CURB, TYPE P-9, <10'	EA	11
425 1491	INLETS, CURB, TYPE J-9, <10'	EA	4
425 1521	INLETS, DT BOT, TYPE C,<10	EA	1
425 1541	INLETS, DT BOT, TYPE D, <10	EA	5
425 1910	INLETS, CLOSED FLUME	EA	4
425 2 41	MANHOLES, P-7, <10'	EA	6
425 2 71	MANHOLES, J-7, <10'	EA	4
425 5	MANHOLE, ADJUST	EA	1
430 174 215	PIPE CULVERT, OPTIONAL MATERIAL, OTHER SHAPE-ELIP/ARCH, 15"SD	LF	10
430 174 218	PIPE CULVERT, OPTIONAL MATERIAL, OTHER SHAPE-ELIP/ARCH, 18"SD	LF	40
430 174 224	PIPE CULVERT, OPTIONAL MATERIAL, OTHER SHAPE-ELIP/ARCH, 24"SD	LF	39
430 174 236	PIPE CULVERT, OPTIONAL MATERIAL, OTHER SHAPE-ELIP/ARCH, 36"SD	LF	5
430 174 248	PIPE CULVERT, OPTIONAL MATERIAL, OTHER SHAPE-ELIP/ARCH, 48"SD	LF	178
430 174 254	PIPE CULVERT, OPTIONAL MATERIAL, OTHER SHAPE-ELIP/ARCH, 54"SD	LF	224
430 175 115	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 15" S/CD	LF	45
430 175 118	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18" S/CD	LF	636
430 175 124	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 24" S/CD	LF	575
430 175 142	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 42" S/CD	LF	159
430 400 024	WINGED CONCRETE ENDWALLS, U-TYPE INDEX 430-040, 24"	EA	1
430 542 300	STRAIGHT CONCRETE ENDWALL, 42", TRIPLE, 0 DEGREES, ROUND	EA	2
430 984 129	MITERED END SECTION, OPTIONAL ROUND, 24" SD	EA	3
430 984 629	MITERED END SECT, OPTIONAL - ELLIPTICAL / ARCH, 24" SD	EA	2
430 984 638	MITERED END SECTION , OPTIONAL ELIP/ARCH 36" SD	EA	1
430 984 642	MITERED END SECTION , OPTIONAL ELIP/ARCH 54" SD	EA	1
Lighting			
630 2 11	CONDUIT, INSTALL, OPEN TRENCH	LF	80
630 2 12	CONDUIT, INSTALL, DIRECTIONAL BORE	LF	595
635 2 30	FULL & SPLICE BOX, INSTALL	EA	10

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

No.	REVISIONS	DATE	BY

Kimley»Horn

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KHA PROJECT 148400070
DATE 10/02/2025
SCALE AS SHOWN
DESIGNED BY
DRAWN BY
CHECKED BY

Manatee County FLORIDA

9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

SUMMARY OF PAY ITEMS

SHEET NUMBER 3

CIP 2: HAWTHORNE PARK SEDIMENT BASIN

ITEM NO.	ITEM DESCRIPTION	UNIT	PROJECT QUANTITY
Roadway			
101 1	MOBILIZATION	LS	1
102 2	MAINTENANCE OF TRAFFIC	LS	1
107 1	LITTER REMOVAL	AC	1.54
107 2	MOWING	AC	1.54
110 1 1	CLEARING & GRUBBING	AC	0.11
120 1	REGULAR EXCAVATION	CY	54.0
524 1 2	CONCRETE DITCH PAVEMENT, NON REINFORCED, 4"	SY	34
570 1 2	PERFORMANCE TURF, SOD	SY	520
Drainage			
430 174 248	PIPE CULVERT,OPTIONAL MATERIAL,OTHER-ELIP/ARCH, 48"SD	LF	84
430 984 641	MITERED END SECT, OPTIONAL/ELLIP/ARCH 48" SD	EA	1

CIP 3: 87TH ST CT NW STORM SEWER REPLACEMENT

ITEM NO.	ITEM DESCRIPTION	UNIT	PROJECT QUANTITY
Roadway			
101 1	MOBILIZATION	LS	1
102 2	MAINTENANCE OF TRAFFIC	LS	1
104 10 3	SEDIMENT BARRIER	LF	927
104 18	INLET PROTECTION SYSTEM	EA	2
107 1	LITTER REMOVAL	AC	11.48
107 2	MOWING	AC	9.94
110 1 1	CLEARING & GRUBBING	AC	0.27
110 4 10	REMOVAL OF EXISTING CONCRETE	SY	330
110 7 1	MAILBOX, F&I SINGLE	EA	3
120 1	REGULAR EXCAVATION	CY	125.0
120 6	EMBANKMENT	CY	100.0
160 4	TYPE B STABILIZATION	SY	916
285 706	OPTIONAL BASE, BASE GROUP 06	SY	912
327 70 6	MILLING EXISTING ASPHALT PAVEMENT, 1 1/2" DEPTH	SY	703
334 1 53	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC C, PG76-22	TN	75.3
337 7 83	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC C, FC-12.5	TN	133.3
520 2 1	CONCRETE CURB, TYPE A	LF	12
522 2	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	SY	330
526 2 1	DRIVEWAY BRICK REPLACEMENT	SY	24
570 1 2	PERFORMANCE TURF, SOD	SY	388
Drainage			
425 2 41	MANHOLES, P-7, <10'	EA	7
430 174 224	PIPE CULVERT, OPTIONAL MATERIAL, OTHER SHAPE-ELIP/ARCH, 24"SD	LF	269
430 175 124	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 24" S/CD	LF	698
430 524 112	STRAIGHT CONCRETE ENDWALLS, 24", SINGLE, 15 DEGREES, ELLIPTICAL	EA	1
430 830	PIPE FILLING AND PLUGGING - PLACE OUT OF SERVICE	CY	34.0

PAY ITEM NOTES:

102-2: PAY ITEM INCLUDES THE COST OF ALL TEMPORARY STRIPING, SIGNAGE, PAVEMENT, AND SIGN RELOCATIONS.

110-1-1: PAY ITEM INCLUDES THE COST OF ALL EXISTING PIPES TO BE REMOVED OR CUT AND MODIFIED AND TREE AND STUMP REMOVAL TO 6" BELOW GRADE FOR THE ENTIRE PROJECT. TREES TO REMAIN UNLESS OTHERWISE NOTED IN THE PLANS.

120-4: PAY ITEM INCLUDES THE COST OF EXCAVATION OF IDENTIFIED ORGANIC SUBSOIL TO A DEPTH OF ONE FOOT ABOVE THE HIGHEST IDENTIFIED UTILITY WITHIN THE EXCAVATION LIMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING THE LOCATION, DEPTH, AND ALIGNMENT OF ALL EXISTING UTILITIES WITHIN THE WORK AREA PRIOR TO THE START OF EXCAVATION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.

430-542-300: PAY ITEM INCLUDES ALL COSTS ASSOCIATED WITH FURNISHING AND INSTALLING TYPE 45-DEGREE WINGWALLS AND U-TYPE WING STRUCTURES. REFER TO DRAINAGE DETAILS FOR CONFIGURATION AND DIMENSIONS.

CIP 5: 71ST ST NW TO 83RD ST NW

ITEM NO.	ITEM DESCRIPTION	UNIT	PROJECT QUANTITY
Roadway			
101 1	MOBILIZATION	LS	1
102 2	MAINTENANCE OF TRAFFIC	LS	1
104 10 3	SEDIMENT BARRIER	LF	1279
104 18	INLET PROTECTION SYSTEM	EA	3
107 1	LITTER REMOVAL	AC	8.68
107 2	MOWING	AC	5.18
110 1 1	CLEARING & GRUBBING	AC	0.27
110 4 10	REMOVAL OF EXISTING CONCRETE	SY	340
110 7 1	MAILBOX, F&I SINGLE	EA	2
120 1	REGULAR EXCAVATION	CY	500.0
120 6	EMBANKMENT	CY	100.0
160 4	TYPE B STABILIZATION	SY	15
520 1 10	CONCRETE CURB & GUTTER, TYPE F	LF	43
522 1	CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK	SY	618
522 2	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	SY	410
526 1101	PAVERS, ARCHITECTURAL, REMOVE EXISTING AND REINSTALL (PAY ITEM REMOVED)	SY	50
550 10 918	FENCING, SPECIALTYPE, 0.0-5.0', RESET EXISTING	LF	75
570 1 2	PERFORMANCE TURF, SOD	SY	674
Drainage			
425 1521	INLETS, DT BOT, TYPE C,<10	EA	3
425 2 41	MANHOLES, P-7, <10'	EA	1
430 174 215	PIPE CULVERT, OPTIONAL MATERIAL, OTHER SHAPE-ELIP/ARCH, 15"SD	LF	18
430 175 118	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18" S/CD	LF	20

570-1-2: PAY ITEM INCLUDES PLACEMENT OF SOD MATCHING EXISTING TYPE AND SPECIES OF SOD PRESENT ADJACENT TO THE WORK AREA.

590-70-1: PAY ITEM INCLUDES THE MODIFICATION AND/OR REPLACEMENT OF IRRIGATION SYSTEMS AFFECTED BY CONSTRUCTION. PROPERTIES WITH VISIBLE IRRIGATION SYSTEMS ARE NOTED ON THE PLANS. CONTRACTOR TO CHECK FOR PRESENCE OF IRRIGATION SYSTEMS WITHIN THE LIMITS OF CONSTRUCTION AT ALL PROPERTIES AND PROTECT AND RELOCATE CONFLICTING PORTIONS OF IRRIGATION SYSTEM AFFECTED UNDER THIS PAY ITEM. COST TO INCLUDE REPLACEMENT OF PARTS, LABOR, EQUIPMENT, AND MATERIALS AS REQUIRED TO REPAIR THE SYSTEM TO A COMPLETE AND FUNCTIONING STATE OF REPAIR. CONTRACTOR RESPONSIBLE FOR ANY COORDINATION WITH ADJACENT PROPERTY OWNERS AFFECTED.

700-3-501: PAY ITEM INCLUDES F&I OF SINGLE POST AND MOUNTING OF EXISTING SIGN PANEL.

715-7-11: SERVICE POINT INCLUDES ALL COSTS FOR FPL REIMBURSEMENT FOR NEW TRANSFORMER. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH FPL TO CONFIRM COSTS.

0526 2 1 DRIVEWAY BRICK REPLACEMENT

PAY ITEM INCLUDES ALL LABOR, EQUIPMENT, AND MATERIALS REQUIRED FOR THE REMOVAL OF THE EXISTING SOLDIER COURSE AND BRICK PAVERS WITHIN THE BRICK DRIVEWAY. THE CONTRACTOR SHALL CAREFULLY CLEAN ALL JOINTS TO A MINIMUM DEPTH AS SPECIFIED BY THE MANUFACTURER, ENSURING ALL DEBRIS AND VEGETATION ARE REMOVED.
THIS ITEM INCLUDES FURNISHING AND INSTALLING REPLACEMENT BRICK PAVERS AS SHOWN ON THE PLANS, AS WELL AS INSTALLING THE SOLDIER COURSE IN ACCORDANCE WITH THE PROVIDED DETAILS. POLYMERIC SAND SHALL BE INCLUDED IN THE SOLDIER COURSE INSTALLATION, WITH PROPER COMPACTION FOLLOWING THE MANUFACTURER'S RECOMMENDATIONS.
WORK SHALL ALSO INCLUDE PROTECTION OF SURROUNDING SURFACES, DISPOSAL OF REMOVED MATERIALS, AND RESTORATION OF ANY DISTURBED AREAS TO PRE-CONSTRUCTION CONDITION. ANY DAMAGE TO SURROUNDING BRICKS OR ADJACENT FEATURES CAUSED DURING CONSTRUCTION SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE COUNTY.

ALL QUANTITIES PROVIDED HEREIN ARE FOR ENGINEERS ESTIMATING PURPOSES ONLY, CONTRACTOR IS RESPONSIBLE FOR ALL QUANTITY CALCULATIONS NECESSARY FOR BIDDING.

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

CIP UTILITIES: POTABLE, RECLAIMED, SEWER

ITEM NO.	ITEM DESCRIPTION	UNIT	PROJECT QUANTITY
I. WATER IMPROVEMENTS			
1	MOBILIZATION AND MOT (WATER)	LS	1
2	UTILITY RECORD DRAWINGS (WATER)	LS	1
3	WATER VALVE TO BE ADJUSTED TO GRADE	EA	22
4	8" DI CLASS 350 PIPE WATER MAIN (OPEN CUT)	LF	179
5	8" DI FITTING - 45 DEGREE BEND MJ (WATER)	EA	12
6	CUT AND CONNECT TO EXISTING WATER MAIN (INCLUDES TEMP. SHUTDOWN)	EA	6
7	REMOVE EXISTING 8" WATER MAIN	LF	176
8	WATER SERVICE ASSEMBLY	EA	2
9	AIR RELEASE VALVE ASSEMBLY (WATER)	EA	1
10	WATER METER TO BE ADJUSTED TO GRADE	EA	2
11	8" X 2" TAPPIING SLEEVE WITH 2" VALVE (WATER)	AS	1
12	FIRE HYDRANT ASSEMBLY (RELOCATION)	EA	2
13	FIRE HYDRANT ASSEMBLY TO BE ADJUSTED TO PROP. GRADE	EA	1
14	METER (WATER)	EA	7
15	8" GATE VALVE (WATER)	EA	1
16	6" GATE VALVE (WATER)	EA	1
17	REMOVE GATE VALVE (WATER)	EA	1
18	BACKFLOW ASSEMBLY	EA	2
II. WASTEWATER IMPROVEMENTS			
19	MOBILIZATION AND MOT (WASTEWATER)	LS	1
20	UTILITY RECORD DRAWINGS (WASTEWATER)	LS	1
21	SANITARY VALVE TO BE ADJUSTED TO GRADE	EA	1
22	SANITARY MH TO BE ADJUSTED TO GRADE	EA	1
23	6" C900 DR-18 PVC FORCE MAIN (OPEN CUT)	LF	44
24	6" C900 DR-18 PVC FORCE MAIN IN 12" PVC CASING (OPEN CUT)	LF	256
25	6" DI FITTING - 45 DEG. BEND MJ (WASTEWATER)	EA	8
26	CUT AND CONNECT TO EXISTING FORCE MAIN (INCLUDES BYPASSING)	EA	4
27	6" SANITARY SEWER VERTICAL ADJUSTMENT	EA	7
28	4" SANITARY SEWER VERTICAL ADJUSTMENT	EA	2
29	REMOVE EXISTING 6" FORCE MAIN	LF	294
30	SANITARY SERVICE ASSEMBLY	EA	1
31	6" X 2" TAPPING SLEEVE WITH 2" VALVE (WASTEWATER)	AS	1
II. RECLAIMED WATER IMPROVEMENTS			
32	MOBILIZATION AND MOT (RECLAIM)	LS	1
33	UTILTITY RECORD DRAWINGS (RECLAIM)	LS	1
34	RECLAIM VALVE TO BE ADJUSTED TO GRADE	EA	8
35	12" DI CLASS 350 PIPE RECLAIM MAIN (OPEN CUT)	LF	97
36	8" DI CLASS 350 PIPE RECLAIM MAIN (OPEN CUT)	LF	40
37	12" DI FITTING - 45 DEG. BEND MJ (RECLAIM)	EA	12
38	8" DI FITTING - 45 DEG. BEND MJ (RECLAIM)	EA	4
39	12" GATE VALVE (RECLAIM)	EA	3
40	8" GATE VALVE (RECLAIM)	EA	1
41	REMOVE GATE VALVE (RECLAIM)	EA	4
42	CUT AND CONNECT TO EXISTING RECLAIM WATER MAIN (INCLUDES TEMP. SHUTDOWN)	EA	8
43	REMOVE EXISTING 12" RECLAIM WATER MAIN	LF	87
44	REMOVE EXISTING 8" RECLAIM WATER MAIN	LF	40
45	RECLAIM SERVICE ASSEMBLY	EA	1
46	AIR RELEASE VALVE ASSEMBLY (RECLAIM)	EA	2
47	12" X 2" TAPPING SLEEVE WITH 2" VALVE (RECLAIM)	AS	1

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No.	REVISIONS	DATE	BY

Kimley»Horn
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1800 SECOND STREET, SUITE 900, SARASOTA, FL 34236
PHONE: 941-379-7600
WWW.KIMLEY-HORN.COM

KHA PROJECT 148400070
DATE 10/02/2025
SCALE AS SHOWN
DESIGNED BY
DRAWN BY
CHECKED BY

Manatee County FLORIDA

9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

SUMMARY OF PAY ITEMS

SHEET NUMBER 5

DO NOT USE THE INFORMATION ON THIS SHEET FOR CONSTRUCTION PURPOSES. THIS SHEET IS IN THE PLANS FOR DOCUMENTATION AND TO ASSIST CONSTRUCTION PERSONELLE WITH DRAINAGE CONCERNS.

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9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
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DRAINAGE MAP (1)

SHEET NUMBER
6

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9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
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FL LICENSE NUMBER 76102
DATE:

DRAINAGE MAP (2)

SHEET NUMBER 7

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9TH AVENUE NW

MANATEE COUNTY FL

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DRAINAGE MAP (3)

SHEET NUMBER
8

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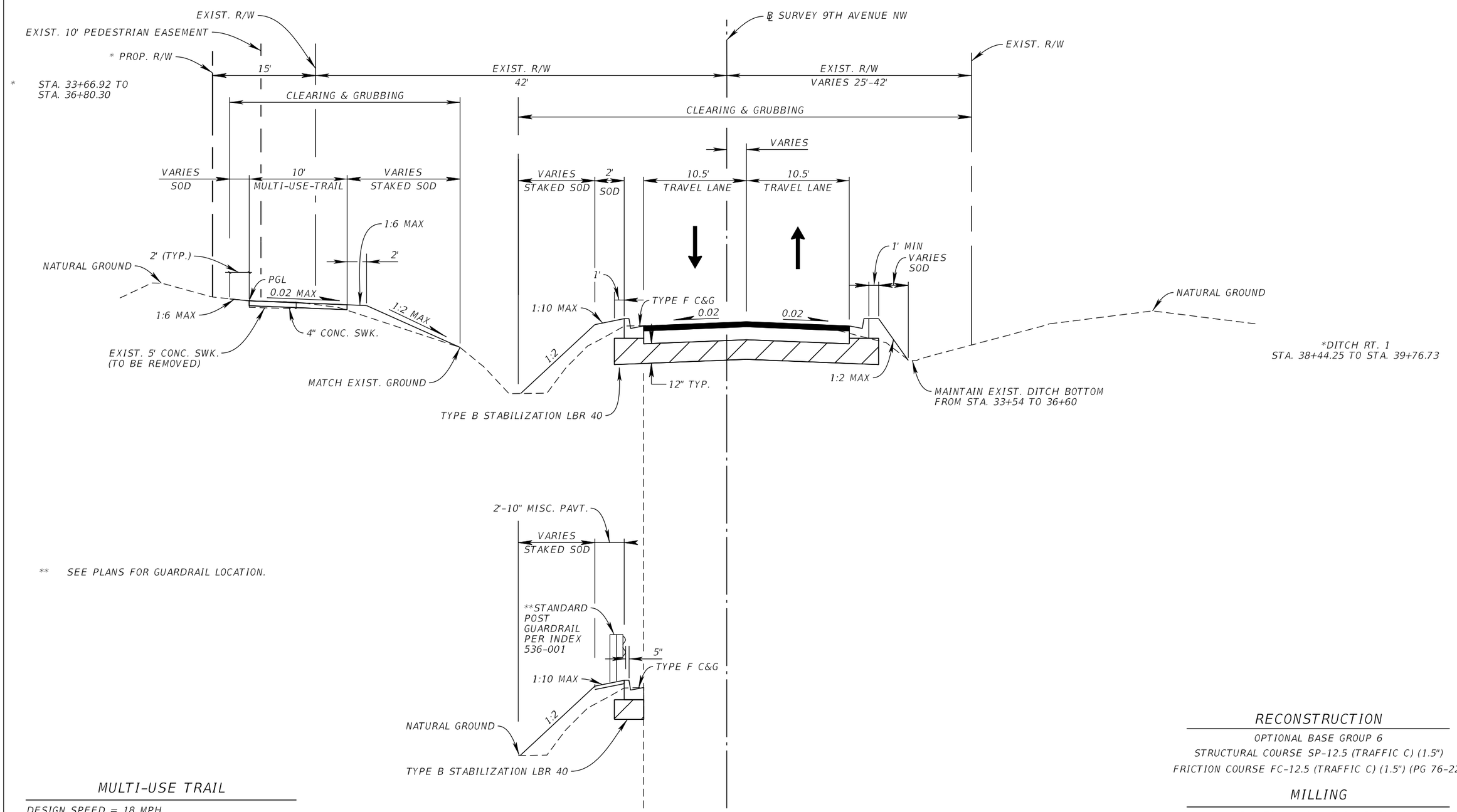

** SEE PLANS FOR GUARDRAIL LOCATION.

GUARDRAIL
STA. 33+50.97 - STA. 39+52.92

MULTI-USE TRAIL

DESIGN SPEED = 18 MPH

TRAFFIC DATA

DESIGN SPEED = 35 MPH
POSTED SPEED = 30 MPH

TYPICAL SECTION
9TH AVENUE NW
STA. 33+36.80 - STA. 39+10.00

RECONSTRUCTION

OPTIONAL BASE GROUP 6
STRUCTURAL COURSE SP-12.5 (TRAFFIC C) (1.5")
FRICTION COURSE FC-12.5 (TRAFFIC C) (1.5") (PG 76-22)

MILLING

MILL EXISTING ASPHALT PAVEMENT (1.5")

RESURFACING

FRICTION COURSE FC-12.5 (TRAFFIC C) (1.5") (PG 76-22)

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9TH AVENUE NW

MANATEE COUNTY FL

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TYPICAL SECTIONS (1)

SHEET NUMBER
9

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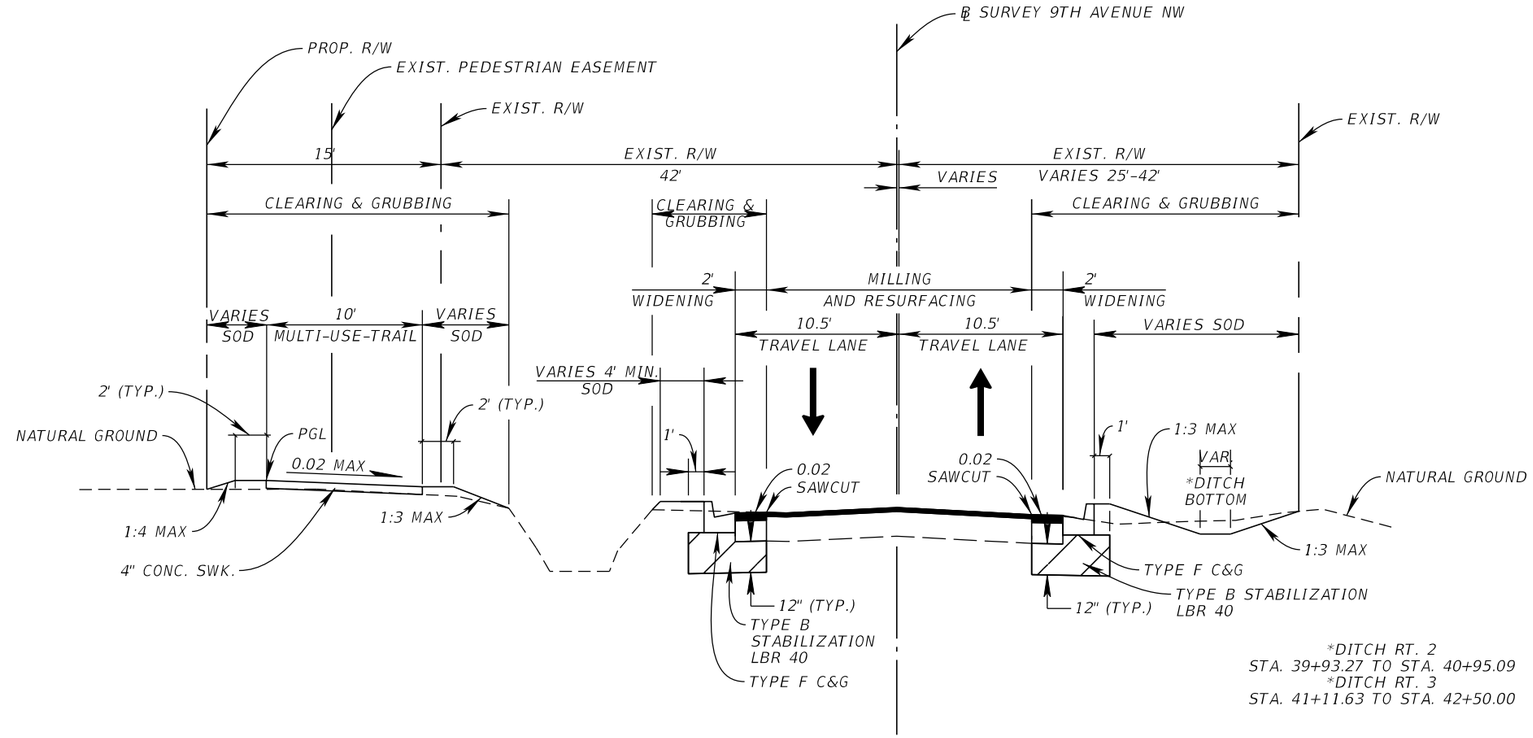
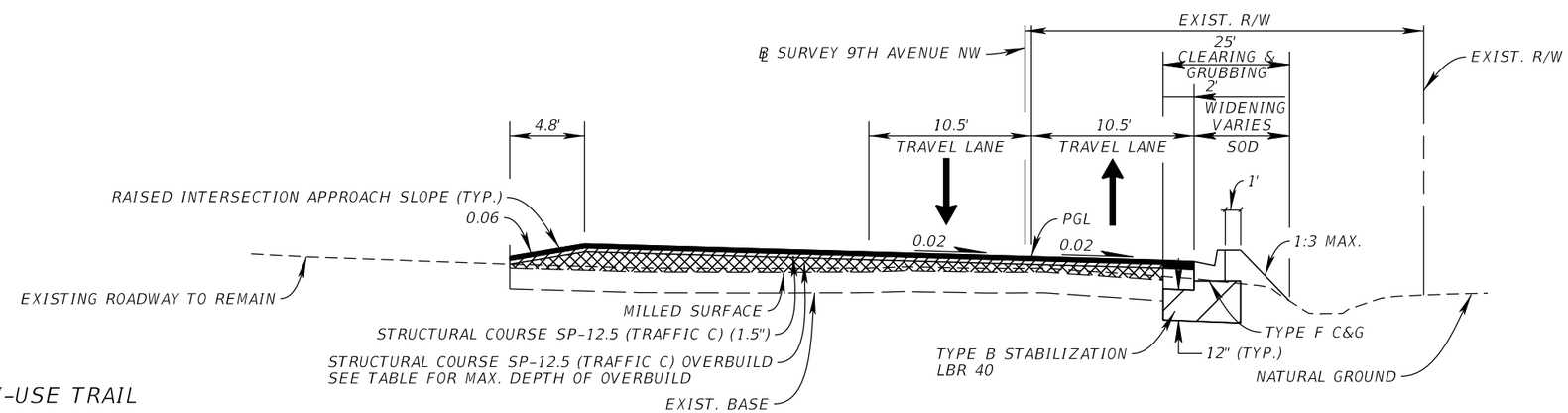
OVERBUILD DETAILS					
STATION	EXIST. SLOPE (%)	PROP. SLOPE (%)	MAX. DEPTH OF OVERBUILD (IN.)	WIDTH OF OVERBUILD (FT.)	AREA OF OVERBUILD (SQ. FT.)
92ND RAISED INTERSECTION					
40+40.00	VARIES	VARIES	0.0	0.0	0.0
40+60.00	VARIES	VARIES	2.6	18.3	4.0
40+80.00	VARIES	VARIES	5.9	32.4	15.9
41+00.00	VARIES	VARIES	8.2	60.4	41.1
41+20.00	VARIES	VARIES	7.0	59.1	34.3
41+40.00	VARIES	VARIES	5.0	27.4	11.4
41+60.00	VARIES	VARIES	0.0	0.0	0.0



TYPICAL SECTION
9TH AVENUE NW
STA. 39+10.00 - STA. 43+40.66



TYPICAL SECTION
92ND ST - RAISED INTERSECTION
STA. 40+62.29 - STA. 41+53.17

WIDENING

OPTIONAL BASE GROUP 6
STRUCTURAL COURSE SP-12.5 (TRAFFIC C) (1.5")
FRICTION COURSE FC-12.5 (TRAFFIC C) (1.5") (PG 76-22)

MILLING

MILL EXISTING ASPHALT PAVEMENT (1.5")

RESURFACING

FRICTION COURSE FC-12.5 (TRAFFIC C) (1.5") (PG 76-22)

OVERBUILD

STRUCTURAL COURSE SP-12.5 (TRAFFIC C) (VARIES)
STRUCTURAL COURSE SP-12.5 (TRAFFIC C) (1.5")
FRICTION COURSE FC-12.5 (TRAFFIC C) (1.5") (PG 76-22)

MULTI-USE TRAIL

DESIGN SPEED = 18 MPH

TRAFFIC DATA

DESIGN SPEED = 35 MPH
POSTED SPEED = 30 MPH

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9TH AVENUE NW

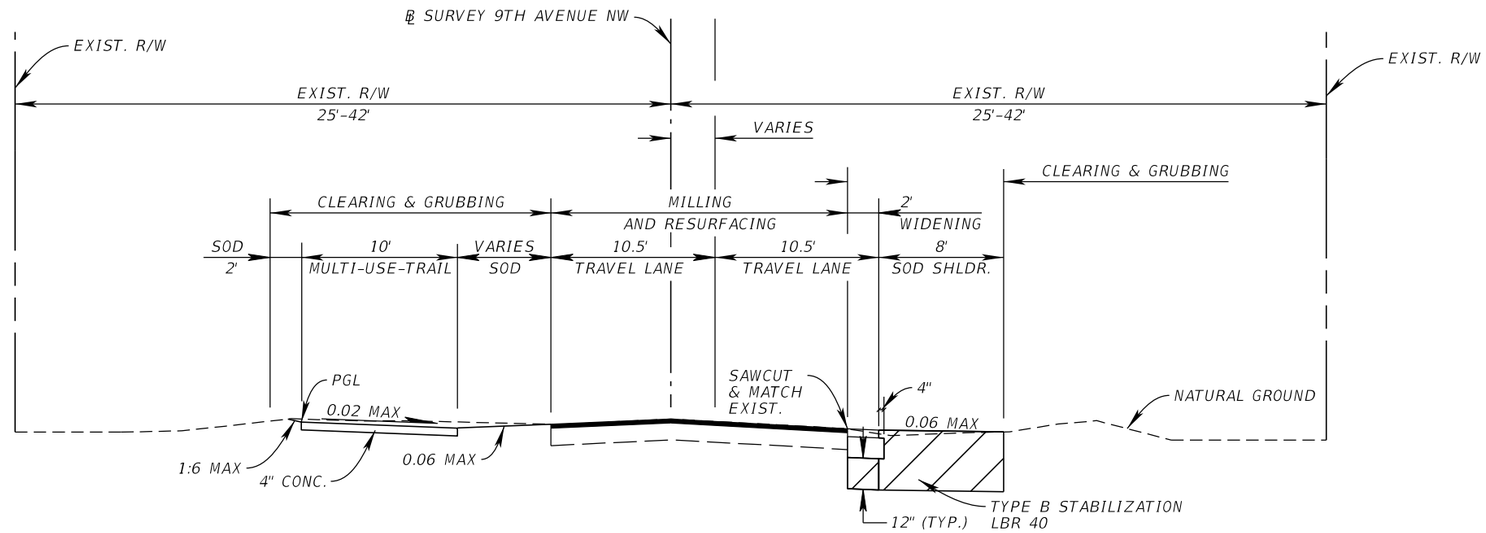
MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

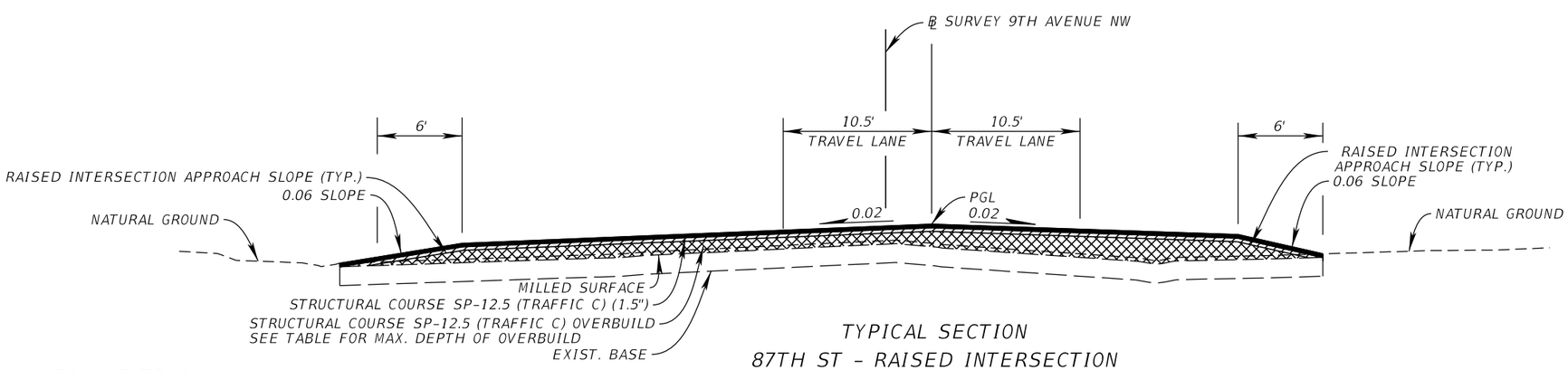
TYPICAL SECTIONS (2)

SHEET NUMBER 10

OVERBUILD DETAILS					
STATION	EXIST. SLOPE (%)	PROP. SLOPE (%)	MAX. DEPTH OF OVERBUILD (IN.)	WIDTH OF OVERBUILD (FT.)	AREA OF OVERBUILD (SQ. FT.)
87TH RAISED INTERSECTION					
54+20.00	VARIES	VARIES	0.0	0.0	0.0
54+40.00	VARIES	VARIES	0.8	17.0	1.2
54+60.00	VARIES	VARIES	2.0	17.0	2.8
54+80.00	VARIES	VARIES	4.0	17.7	5.9
55+00.00	VARIES	VARIES	8.0	27.7	18.5
55+20.00	VARIES	VARIES	9.0	62.0	46.5
55+40.00	VARIES	VARIES	10.2	80.7	68.6
55+60.00	VARIES	VARIES	8.2	44.7	30.6
55+80.00	VARIES	VARIES	0.0	0.0	0.0



TYPICAL SECTION
9TH AVENUE NW
STA. 43+40.66 - STA. 54+22.00



TYPICAL SECTION
87TH ST - RAISED INTERSECTION
STA. 54+22.00 - STA. 55+78.00

MILLING

MILL EXISTING ASPHALT PAVEMENT (1.5")

RESURFACING

FRICTION COURSE FC-12.5 (TRAFFIC C) (1.5") (PG 76-22)

WIDENING

OPTIONAL BASE GROUP 6
STRUCTURAL COURSE SP-12.5 (TRAFFIC C) (1.5")
FRICTION COURSE FC-12.5 (TRAFFIC C) (1.5") (PG 76-22)

OVERBUILD

STRUCTURAL COURSE SP-12.5 (TRAFFIC C) (VARIES)
STRUCTURAL COURSE SP-12.5 (TRAFFIC C) (1.5")
FRICTION COURSE FC-12.5 (TRAFFIC C) (1.5") (PG 76-22)

MULTI-USE TRAIL

DESIGN SPEED = 18 MPH

TRAFFIC DATA

DESIGN SPEED = 35 MPH
POSTED SPEED = 30 MPH

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Manatee County FLORIDA

9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

TYPICAL SECTIONS (3)

SHEET NUMBER
11

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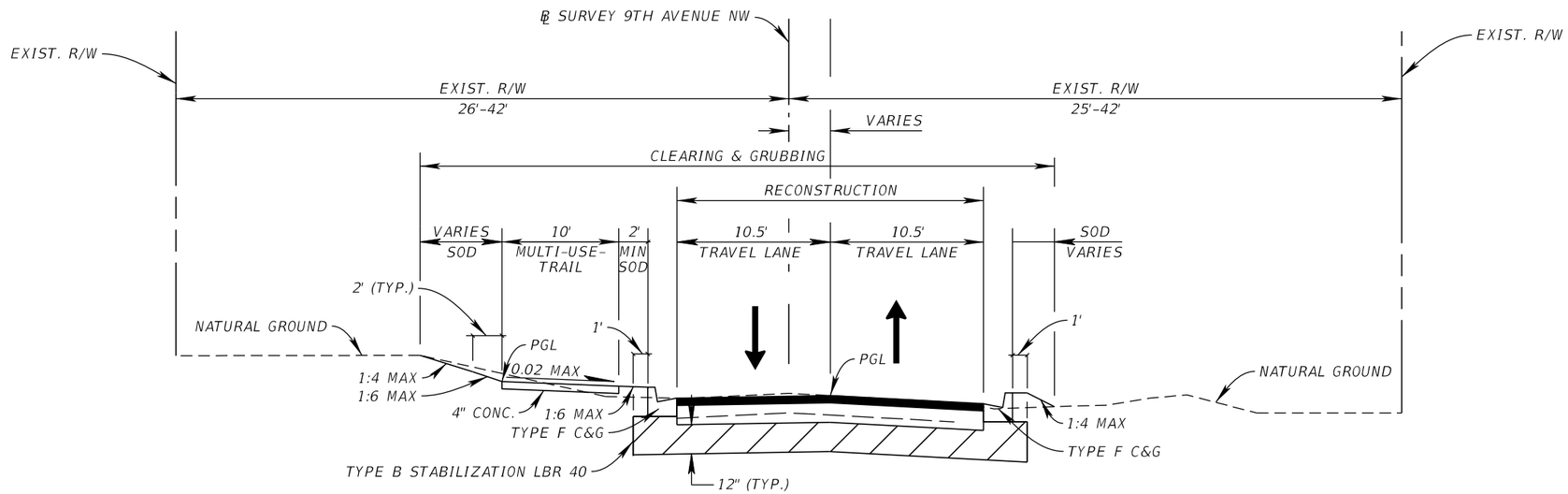

TYPICAL SECTION
9TH AVENUE NW
STA. 55+78.00 - STA. 56+60.61

MULTI-USE TRAIL

DESIGN SPEED = 18 MPH

TRAFFIC DATA

DESIGN SPEED = 35 MPH
POSTED SPEED = 30 MPH

RECONSTRUCTION

OPTIONAL BASE GROUP 6
STRUCTURAL COURSE SP-12.5 (TRAFFIC C) (1.5")
FRICTION COURSE FC-12.5 (TRAFFIC C) (1.5") (PG 76-22)

No.	REVISIONS	DATE	BY

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9TH AVENUE NW

MANATEE COUNTY FL

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DATE:

TYPICAL SECTIONS (4)

SHEET NUMBER 12

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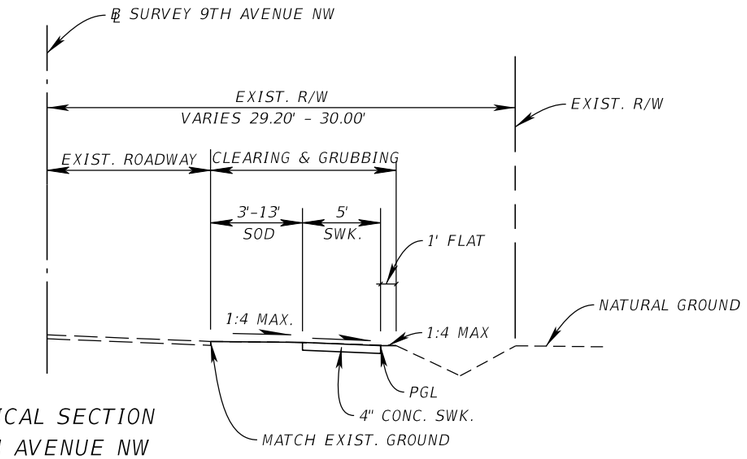
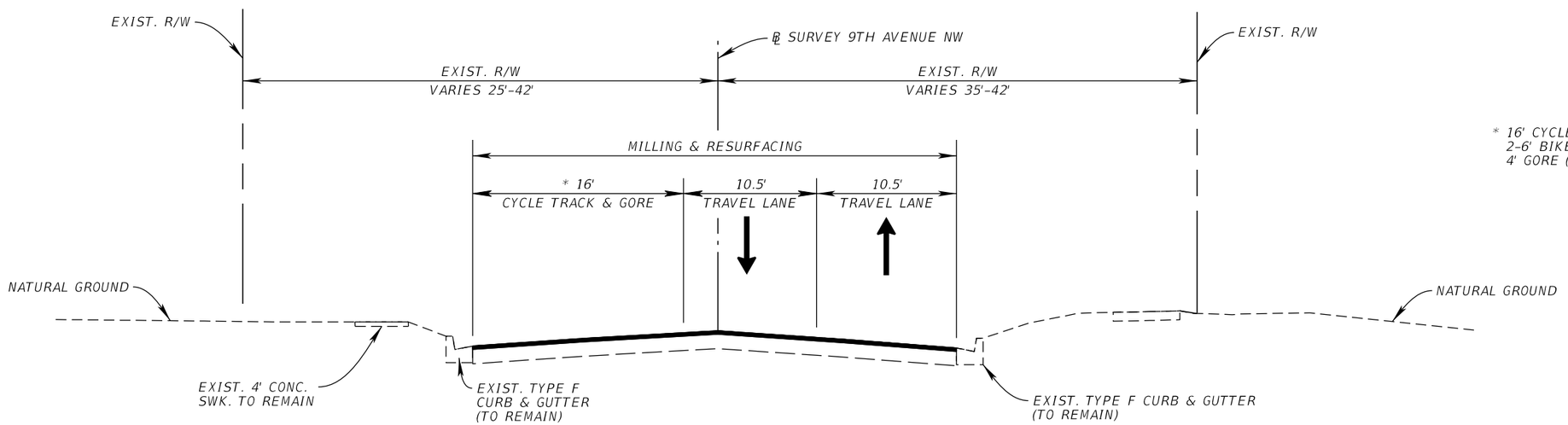


TYPICAL SECTION
9TH AVENUE NW
STA. 96+55.50 - STA. 109+35.87



* 16' CYCLE TRACK:
2-6' BIKE LANES
4' GORE (TYP.)

TYPICAL SECTION
9TH AVENUE NW
STA. 56+60.61 - STA. 71+71.17
STA. 74+98.53 - STA. 83+14.38

TRAFFIC DATA

DESIGN SPEED = 35 MPH
POSTED SPEED = 30 MPH

MILLING

MILL EXISTING ASPHALT PAVEMENT (1.5")

RESURFACING

FRICTION COURSE FC-12.5 (TRAFFIC C) (1.5") (PG 76-22)

No.	REVISIONS	DATE	BY

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FL LICENSE NUMBER 76102
DATE:

TYPICAL SECTIONS (5)

SHEET NUMBER 13

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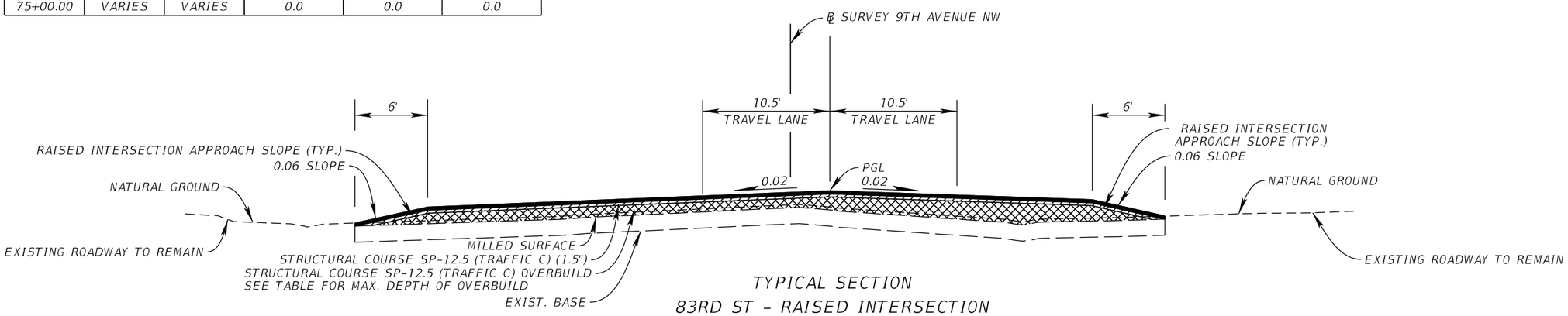
OVERBUILD DETAILS					
STATION	EXIST. SLOPE (%)	PROP. SLOPE (%)	MAX. DEPTH OF OVERBUILD (IN.)	WIDTH OF OVERBUILD (FT.)	AREA OF OVERBUILD (SQ. FT.)
83RD RAISED INTERSECTION					
71+60.00	VARIES	VARIES	0.0	0.0	0.0
71+80.00	VARIES	VARIES	0.5	34.6	1.4
72+00.00	VARIES	VARIES	1.6	29.6	3.8
72+20.00	VARIES	VARIES	3.3	24.6	6.8
72+40.00	VARIES	VARIES	5.6	21.0	9.8
72+60.00	VARIES	VARIES	10.9	21.8	19.7
72+80.00	VARIES	VARIES	11.9	39.2	38.8
73+00.00	VARIES	VARIES	15.0	101.8	127.3
73+20.00	VARIES	VARIES	18.0	88.8	133.2
73+40.00	VARIES	VARIES	17.1	103.3	147.2
73+60.00	VARIES	VARIES	16.3	39.4	53.6
73+80.00	VARIES	VARIES	16.8	22.1	30.9
74+00.00	VARIES	VARIES	12.5	21.0	21.8
74+20.00	VARIES	VARIES	9.8	25.8	21.0
74+40.00	VARIES	VARIES	7.2	30.8	18.5
74+60.00	VARIES	VARIES	4.3	35.8	12.9
74+80.00	VARIES	VARIES	2.0	36.5	6.0
75+00.00	VARIES	VARIES	0.0	0.0	0.0



TYPICAL SECTION
83RD ST - RAISED INTERSECTION
STA. 71+71.17 - STA. 74+98.53

MILLING

MILL EXISTING ASPHALT PAVEMENT (1.5")

RESURFACING

FRICTION COURSE FC-12.5 (TRAFFIC C) (1.5") (PG 76-22)

OVERBUILD

STRUCTURAL COURSE SP-12.5 (TRAFFIC C) (VARIES)
STRUCTURAL COURSE SP-12.5 (TRAFFIC C) (1.5")
FRICTION COURSE FC-12.5 (TRAFFIC C) (1.5") (PG 76-22)

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DRAWN BY
CHECKED BY

Manatee County FLORIDA

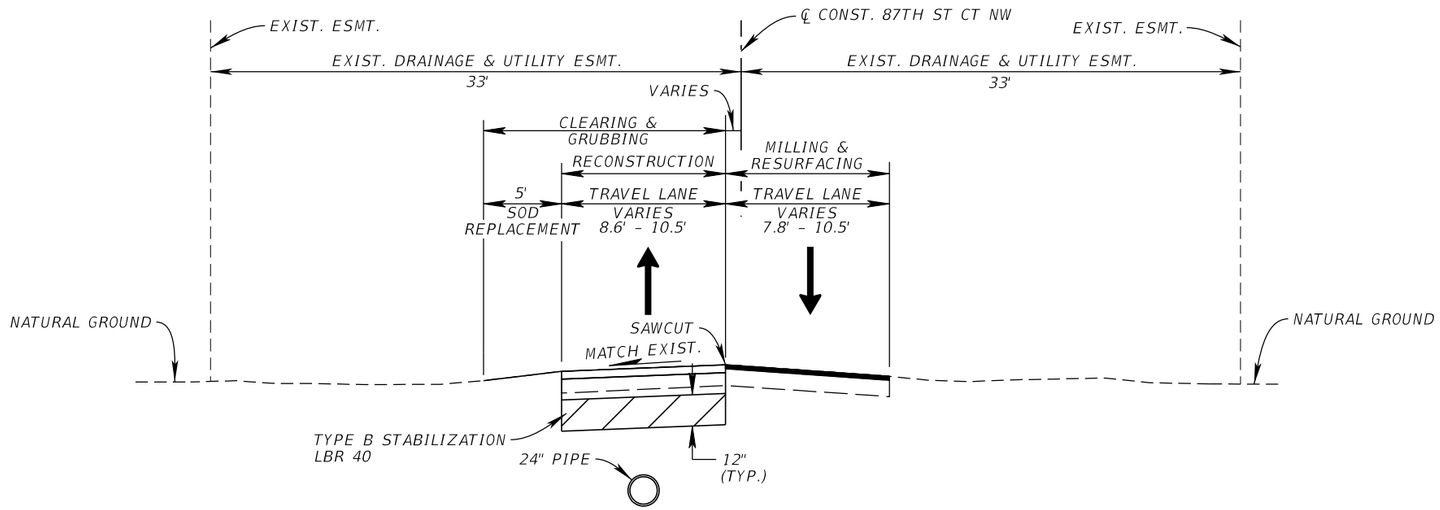
9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

TYPICAL SECTIONS (6)

SHEET NUMBER 14



RECONSTRUCTION

OPTIONAL BASE GROUP 6

STRUCTURAL COURSE SP-12.5 (TRAFFIC C) (1.5")

FRICTION COURSE FC-12.5 (TRAFFIC C) (1.5") (PG 76-22)

MILLING

MILL EXISTING ASPHALT PAVEMENT (1.5")

RESURFACING

FRICTION COURSE FC-12.5 (TRAFFIC C) (1.5") (PG 76-22)

TYPICAL SECTION

87TH ST CT NW

STA. 10+35.77 - STA. 17+59.50

TRAFFIC DATA

DESIGN SPEED = 25 MPH

POSTED SPEED = 25 MPH

No.	REVISIONS	DATE	BY

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FL LICENSE NUMBER 76102

DATE:

TYPICAL SECTIONS (7)

SHEET NUMBER 15

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

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	REINFORCED CONCRETE PIPE CLASS III										CURB INLETS					MANHOLE			DITCH BOTTOM INLETS		GUTTER INLET S	SIDE DRAIN MITERED END SECTION								U-TYPE CONCRETE EDNWALL	STRAIGHT CONCRETE ENDWALL		SODDING	REMARKS
						ROUND SHAPE					ELLIPSE					P-3	P-5	P-9	J-9	CLOSED FLUME	P-7	J-7	ADJUST	C	D	V-P													
						15"	18"	24"	30"	42"	12"x18"	14"x23"	19"x30"	29"x45"	38"x60"	43"x68"	<10'	<10'	<10'	<10'	Type 1 - 1 barrel	<10'	<10'		<10'	<10'	<10'	18"	14"x23"	19"x30"	24"	29"x45"	30"	38"x60"	43"x68"	24"	19" x 30"	42"	S.Y.	
P	S-210A	33+54.00	RT	Inlet																1																			
F																																							
P	S-210	33+54.00	LT	Inlet																1																			
F																																							
P	S-211	35+09.50	LT	MES, Pipe	1			18																							1							10	
F																																							
P	S-212	35+35.25	LT	MES																											1							10	
F																																							
P	S-215	36+18.75	RT	MES, Pipe	1								39																1									10	
F																																							
P	S-216	36+69.50	RT	MES	1																								1									10	
F																																							
P	S-300	36+80.00	LT	Endwall	3					159																											1		W/ 45 Wingwalls
F																																							
P	S-301	36+80.00	RT	Endwall																																	1		W/ U Type Wingwalls
F																																							
P	S-213	36+89.50	LT	MES, Pipe	1									5																		1						12	Const. Conc. Jacket
F																																							
P	S-214	37+12.00	LT	MES, Pipe	1			8																							1							10	Const. Conc. Jacket
F																																							
P	S-403	38+74.75	RT	Inlet, Pipe	1			51																	1														
F																																							
P	S-402	38+17.25	RT	Endwall																															1			10	
F																																							
P	S-500	39+10.00	LT	Inlet																1																			
F																																							
P	S-500A	39+10.00	RT	Inlet																1																			
F																																							
P	S-404	39+10.00	RT	Inlet, Pipe	1			32																	1														
F																																							
P	S-501	39+27.00	LT	MES																														1				20	
F																																							
P	S-502	40+09.00	LT	MH, Pipe	1											78						1																	
F																																							
P	S-405	40+30.00	RT	Inlet, Pipe	1			116																	1														
F																																							
P	S-503	40+83.75	LT	Inlet, Pipe	1											74				1																			
F																																							
P	S-504	41+30.50	LT	Inlet, Pipe	1											46				1																			
F																																							
P	S-406	41+23.25	RT	Inlet, Pipe	1			90																	1														
F																																							
P	S-406A	41+23.25	RT	MH, Pipe	1			13													1																		
F																																							
P	S-506	41+58.25	LT	Inlet, Pipe	1			22											1																				
F																																							
P	S-407	41+58.25	RT	Inlet, Pipe	1			34											1																				
F																																							
P	S-505	41+58.50	LT	MH, Pipe	1											26						1																	
F																																							
P	S-408	42+93.00	RT	Inlet, Pipe	1		132												1																				
F																																							
P	S-507	43+40.25	LT	MES, Pipe	1										84																		1					14	
F																																							
P	S-508	43+40.50	LT	MH, Pipe	1										178							1																	
F																																							
P	S-509	43+60.50	LT	Inlet, Pipe	1			16																	1														
F																																							
P	S-409	43+59.75	RT	Inlet, Pipe	1		64																	1															
F																																							
				Plan Quantity			196	400		159			39	5	262	224			3	2	4	1	3		1	5				2	3	1		1	1	1		2	106	

No.	REVISIONS	DATE	BY

Kimley»Horn

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1800 SECOND STREET, SUITE 900, SARASOTA, FL 34236
PHONE: 941-379-7600
WWW.KIMLEY-HORN.COM

KHA PROJECT 148400070
DATE 10/02/2025
SCALE AS SHOWN
DESIGNED BY
DRAWN BY
CHECKED BY

Manatee County FLORIDA

9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

SUMMARY OF DRAINAGE STRUCTURES

SHEET NUMBER 16

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

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	REINFORCED CONCRETE PIPE CLASS III											CURB INLETS					MANHOLE			DITCH BOTTOM INLETS		GUTTER INLET S	SIDE DRAIN MITERED END SECTION								U-TYPE CONCRETE EDNWALL	STRAIGHT CONCRETE ENDWALL		SODDING	REMARKS
						ROUND SHAPE					ELLIPSE						P-3	P-5	P-9	J-9	CLOSED FLUME	P-7	J-7	ADJUST	C	D	V-P													
						15"	18"	24"	30"	42"	12"x18"	14"x23"	19"x30"	29"x45"	38"x60"	43"x68"	<10'	<10'	<10'	<10'	Type I - 1 barrel	<10'	<10'		<10'	<10'	<10'	18"	14"x23"	19"x30"	24"	29"x45"	30"	38"x60"	43"x68"	24"	19"x30"	42"	S.Y.	
P	S-701	54+22.00	RT	Inlet, Pipe	1		20											1																						
F																																								
P	S-702	54+22.00	LT	MH, Pipe	1	7		92															1																	Const. Conc. Collar
F																																								
P	S-703	54+22.00	LT	Inlet, Pipe	1		9											1																						
F																																								
P	S-704	55+12.50	LT	Inlet, Pipe	1	12														1																				Const. Conc. Collars
F																																								
P	S-705	55+15.75	LT	MH, Pipe	1	12		41														1																		Const. Conc. Collars
F																																								
P	S-706	55+15.00	RT	MH, Pipe	1			18														1																		
F																																								
P	S-707	10+32.75	RT	Inlet, Pipe	1			24											1																					CL CONST. 87TH ST CT NW
F																																								
P	S-708	55+58.50	LT	Inlet, Pipe	1							40							1																					
F																																								
P	S-709	55+79.00	LT	MH, Pipe	1	14																1																		Const. Conc. Collars
F																																								
P	S-712	10+32.00	LT	Inlet, Pipe	1			75												1																				CL CONST. 87TH ST CT NW
F																																								
P	S-710	55+81.25	LT	Inlet, Pipe	1		16												1																					
F																																								
P	S-711	55+81.25	RT	Inlet, Pipe	1		33												1																					
F																																								
P	S-1101	72+50.00	RT	Inlet, Pipe	1		99												1																					
F																																								
P	S-1102	72+50.00	LT	Inlet, Pipe	1		21												1																					
F																																								
P	S-1103	72+94.00	RT	Inlet, Pipe	1		55												1																					
F																																								
P	S-1104	73+50.25	RT	Inlet, Pipe	1		36												1																					
F																																								
P	S-1105	73+50.25	RT	MH, Pipe	1		151															1																		
F																																								
P	S-1106	73+82.25	LT	MH	1																			1																
F																																								
P	S-1107	75+00.75	RT	MH, Pipe	1						10											1																		Const. Conc. Collars
F																																								
P	S-901	98+37.50	RT	Inlet, Pipe	1						6														1															Const. Conc. Jacket
F																																								
P	S-902	107+89.00	RT	MH, Pipe	1		12															1																		Const. Conc. Jackets
F																																								
P	S-903	107+89.00	RT	Inlet, Pipe	1						12														1															
F																																								
P	S-904	109+03.00	RT	Inlet, Pipe	1		8																		1															Const. Conc. Collars
F																																								
P	S-800	11+09.75	LT	MH, Pipe	1			160														1																		CL CONST. 87TH ST CT NW
F																																								
P	S-801	12+69.25	LT	MH, Pipe	1			181														1																		CL CONST. 87TH ST CT NW
F																																								
P	S-802	14+50.00	LT	MH, Pipe	1			109														1																		CL CONST. 87TH ST CT NW
F																																								
P	S-803	15+58.00	LT	MH, Pipe	1			119														1																		CL CONST. 87TH ST CT NW
F																																								
P	S-804	16+78.25	LT	MH, Pipe	1			30														1																		CL CONST. 87TH ST CT NW
F																																								
P	S-805	17+11.25	RT	MH, Pipe	1			24														1																		CL CONST. 87TH ST CT NW
F																																								
P	S-806	17+36.75	LT	MH, Pipe	1								269									1																		CL CONST. 87TH ST CT NW
F																																								
P	S-807	20+07.50	LT	Endwall																																	1			CL CONST. 87TH ST CT NW
F																																								
				Plan Quantity	45	460	873			28	40	269					2	8	2		13	1	1	3												1			
				Plan Total	45	656	1273		159	28	40	308	5	262	224		2	11	4	4	14	4	1	4	5			2	3	1		1	1	1	1	2	106	

No.	REVISIONS	DATE	BY

Kimley»Horn

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KHA PROJECT 148400070
DATE 10/02/2025
SCALE AS SHOWN
DESIGNED BY
DRAWN BY
CHECKED BY

Manatee County FLORIDA

9TH AVENUE NW

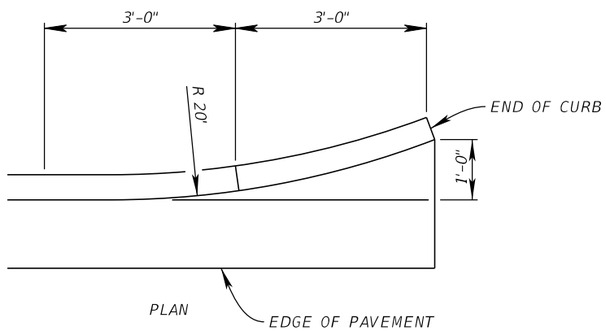
MANATEE COUNTY FL

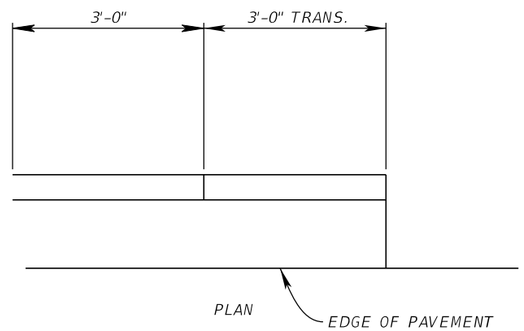
LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

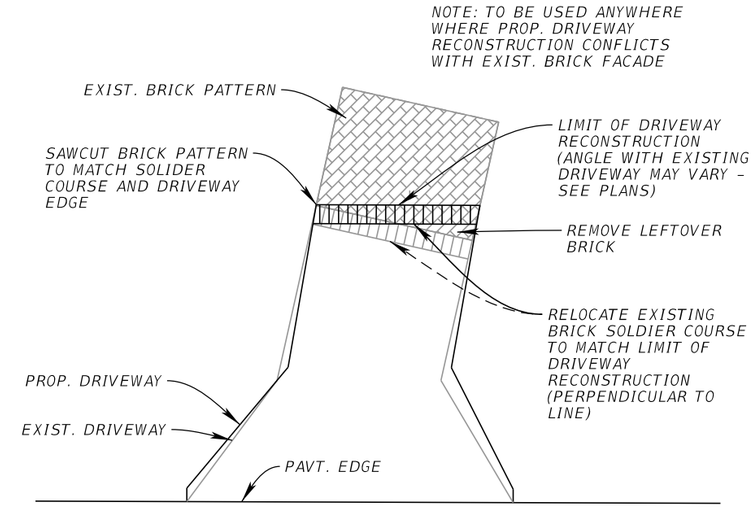
SUMMARY OF DRAINAGE STRUCTURES (2)

SHEET NUMBER 17

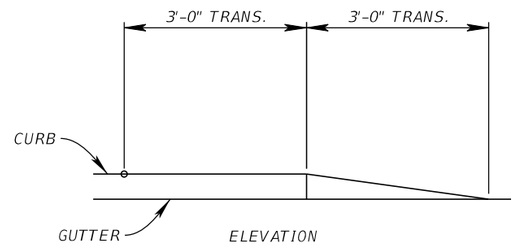
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



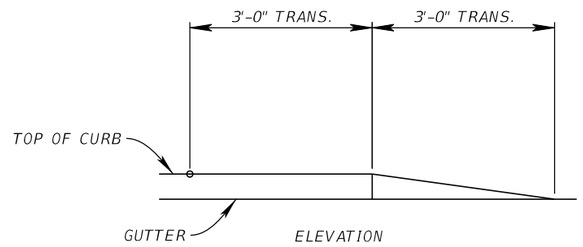




BRICK REPLACEMENT DETAIL
NTS

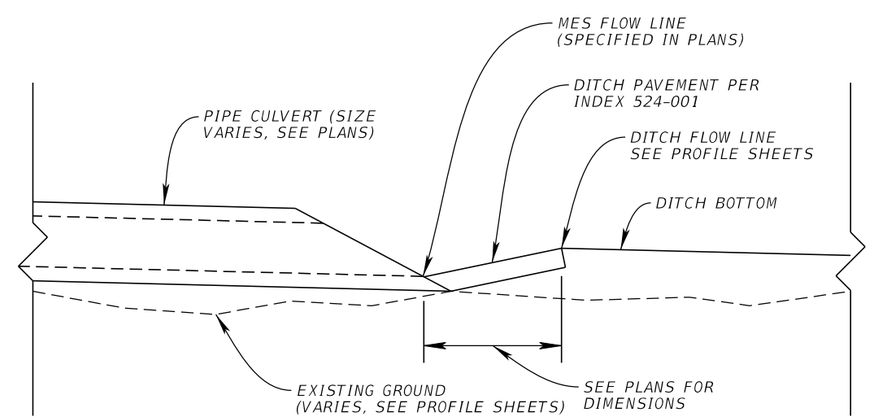


FLARED END



STRAIGHT END

CURB AND GUTTER TYPE E AND TYPE F



MES SUMP DETAIL
NTS

No.	REVISIONS	DATE	BY

Kimley»Horn

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KHA PROJECT 148400070
DATE 10/02/2025
SCALE AS SHOWN
DESIGNED BY
DRAWN BY
CHECKED BY

Manatee County FLORIDA

9TH AVENUE NW

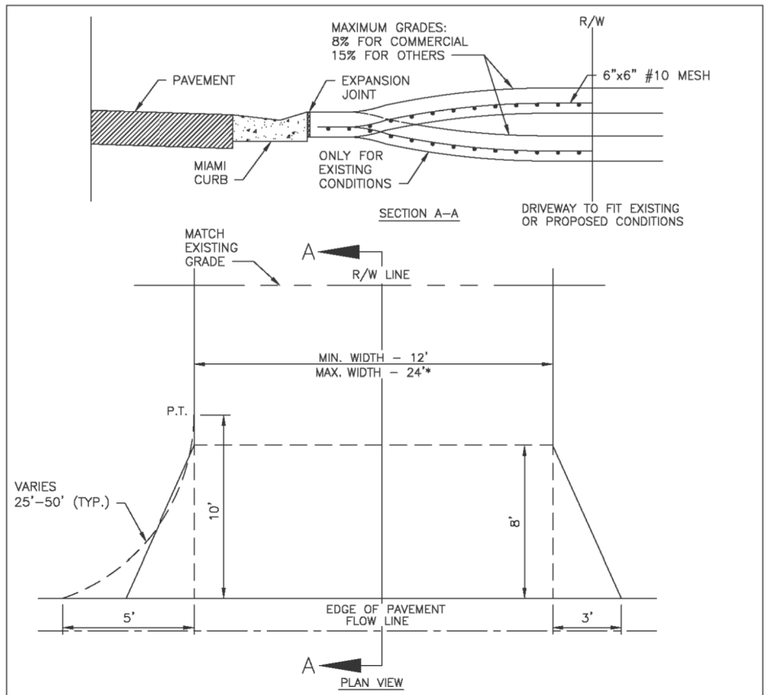
MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

SPECIAL DETAILS (1)

SHEET NUMBER
18

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



* FOR DRIVEWAYS THAT CAN DEMONSTRATE THE NEED FOR ADDITIONAL WIDTH, THE WIDTH MAY NOT BE GREATER THAN THE LESSER OF:

A) 30' TOTAL AT THE RIGHT–OF–WAY LINE.
B) 30% OF THE FRONT FOOTAGE AS DEFINED ON THE SURVEY (OR FIELD MEASUREMENTS, 36' MAX).

NOTES:

A. DRIVEWAYS ADJACENT TO A PAVED ROADWAY MUST HAVE THE APRON CONSTRUCTED.

B. DRIVEWAY SHALL BE 6" REINFORCED CONCRETE (3000 PSI AT 28 DAYS) WITH 6"x6" #10 WIRE MESH FROM BACK OF CURB TO RIGHT–OF–WAY LINE.

C. MAINTAIN EXISTING DRAINAGE FLOWLINE.

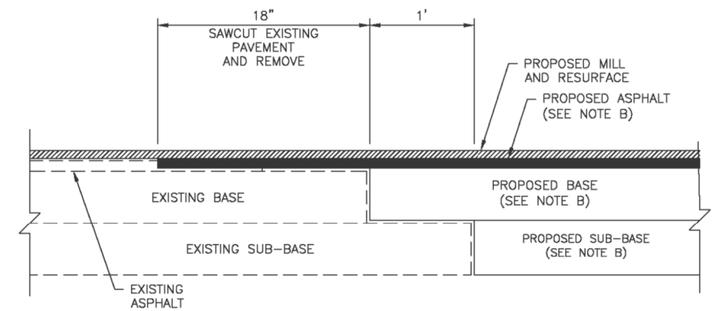
D. USE 3'x8' FLARE OR 18' RADIUS WITH CURB TRANSITION (TRANSITION FROM TYPE F CURB TO MIAMI CURB). SEE DETAIL 101.4. NO CHANGE WITH 3' VALLEY CROSSINGS.

E. EXPANSION JOINT SHALL BE 1/2" PREFORMED JOINT FILLER OR APPROVED ALTERNATE.

F. SAWCUT (1/4" THICKNESS MINIMUM) ON 10' CENTERS. IF DRIVE IS WIDER THAN 12', ADD JOINTS AT 10' CENTERS.

G. LATERAL ALIGNMENT 45 DEGREES FOR DOUBLE DRIVE PER LOT, 90 DEGREES FOR SINGLE DRIVE, OFF CENTER LINE.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT			URBAN DRIVES	101.3
REV.BY	DATE	4/26/22 DATE OF B.O.C.C. APPROVAL		



NOT TO SCALE

NOTES:

A. LIMITS OF MILL AND RESURFACE – EDGE OF PAVEMENT TO EDGE OF PAVEMENT AND 25' BEYOND LIMITS OF CONSTRUCTION.

B. ASPHALT, BASE, AND SUB–BASE SHALL MATCH EXISTING THICKNESS OR THE APPLICABLE COUNTY STANDARD TYPICAL SECTION, WHICHEVER IS GREATER.

C. SIGNAGE AND MARKING PLAN SHALL ACCOMPANY CONSTRUCTION PLAN.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT			ROAD CONNECTION DETAIL	403.3
REV.BY	DATE	4/26/22 DATE OF B.O.C.C. APPROVAL		

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No.	REVISIONS	DATE	BY

Kimley»Horn
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KHA PROJECT 148400070
DATE 10/02/2025
SCALE AS SHOWN
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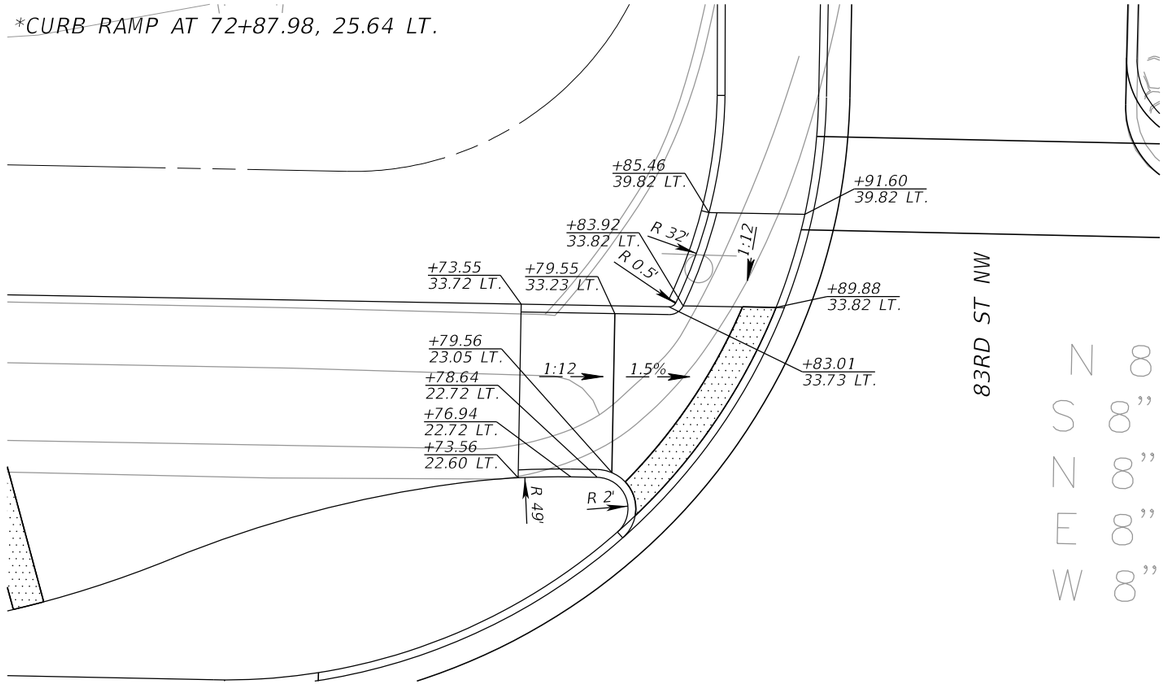
CHECKED BY

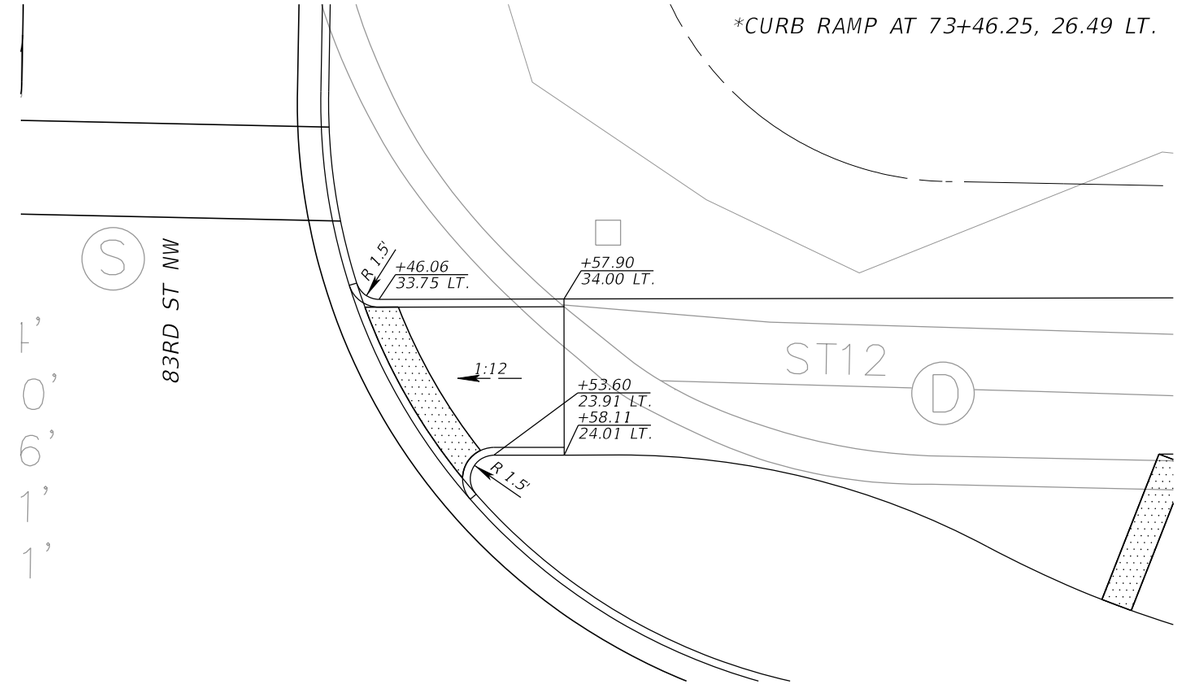
Manatee County FLORIDA
9TH AVENUE NW
MANATEE COUNTY FL

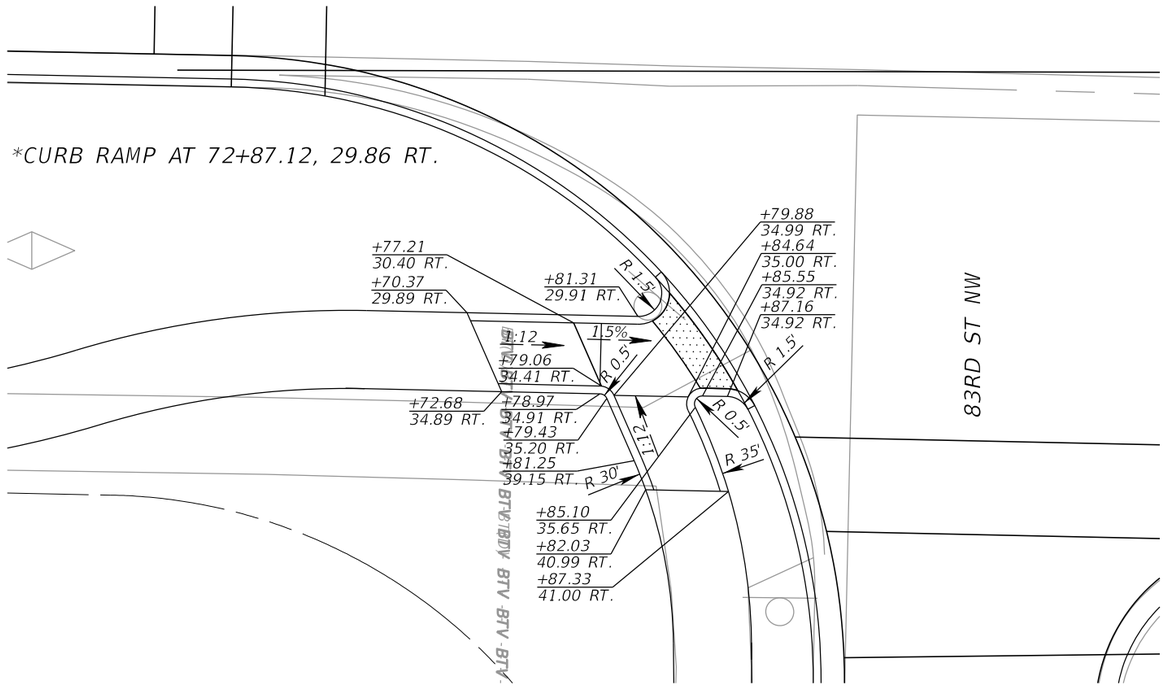
LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

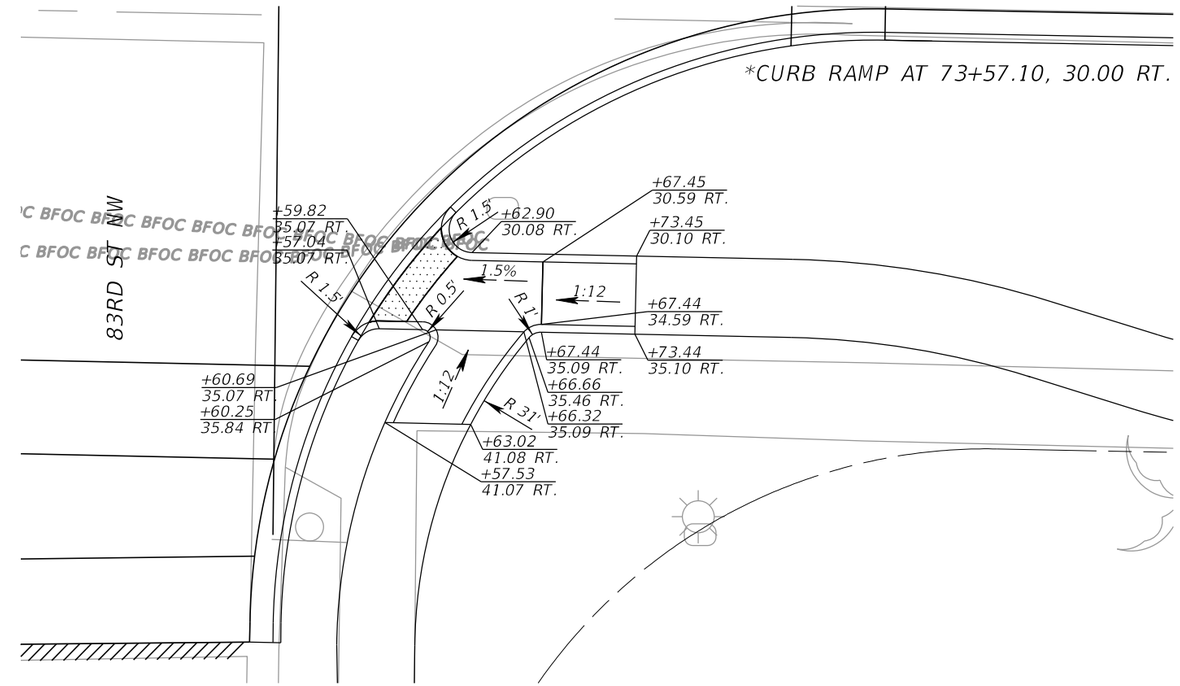
SPECIAL DETAILS (2)

SHEET NUMBER 19









No.	REVISIONS	DATE	BY

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9TH AVENUE NW

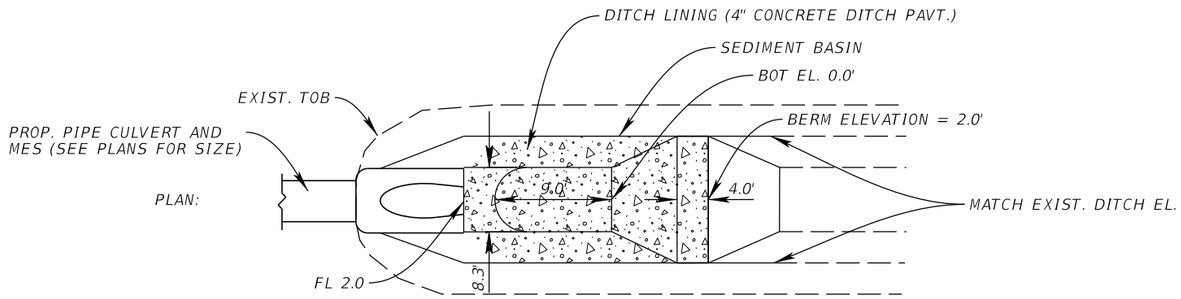
MANATEE COUNTY FL

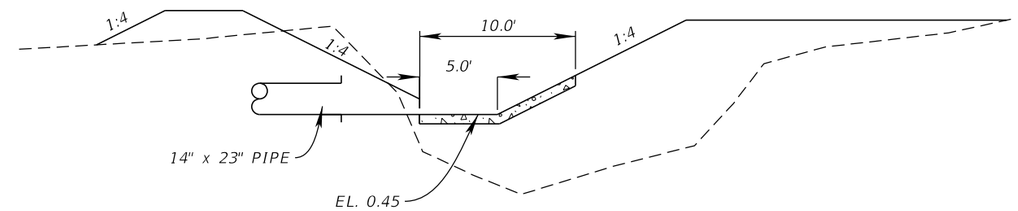
LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

CURB RAMP DETAILS 83RD ST. NW

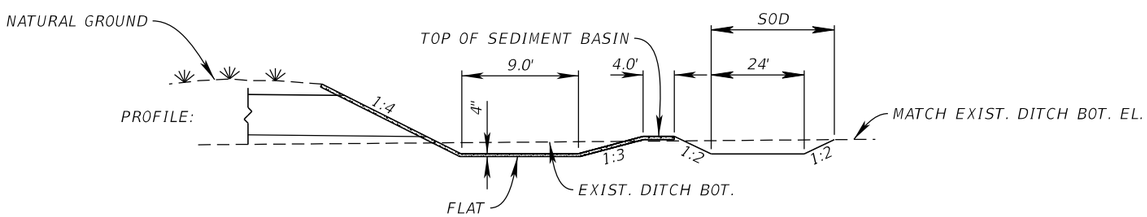
SHEET NUMBER 20

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

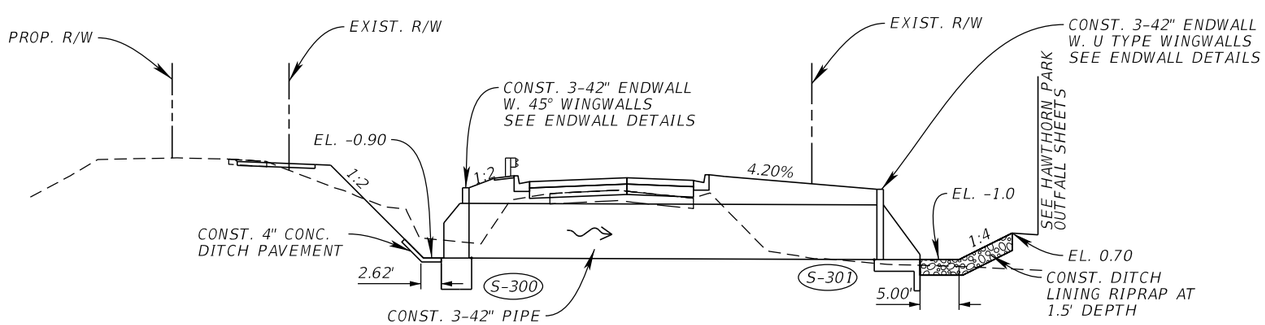




SUMP DETAIL S-400 (NTS)



SEDIMENT BASIN DETAIL (NTS)
STA. 43+40.00



CROSS DRAIN GRADING DETAIL AT STA. 36+80.00 (NTS)

No.	REVISIONS	DATE	BY

Kimley»Horn

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DESIGNED BY
DRAWN BY
CHECKED BY

Manatee County FLORIDA

9TH AVENUE NW

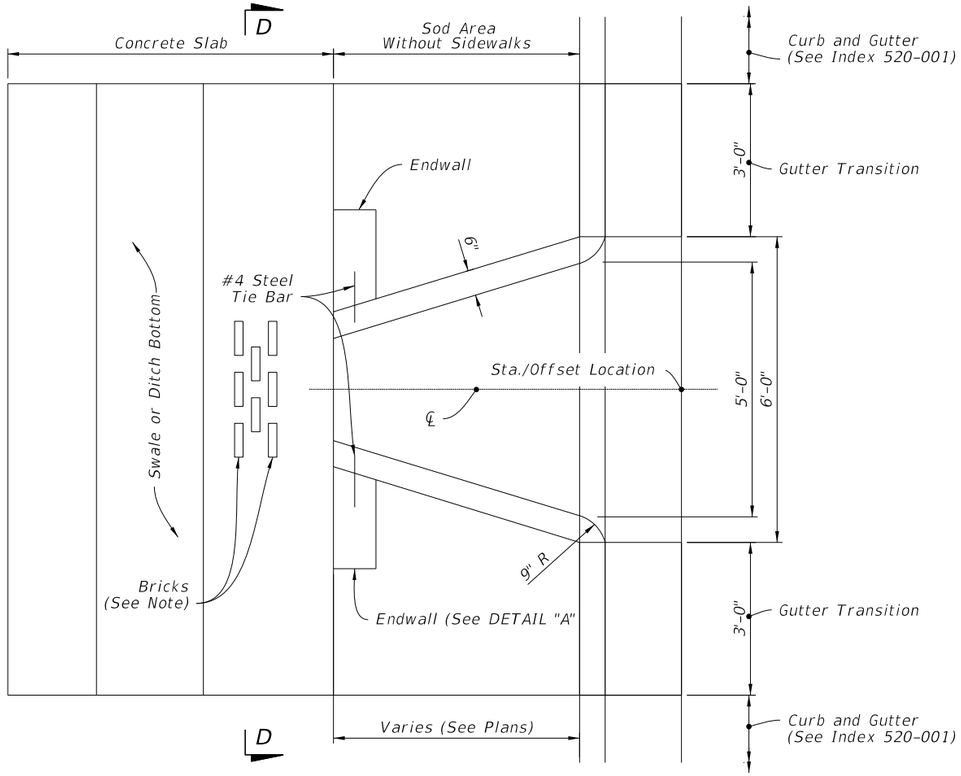
MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

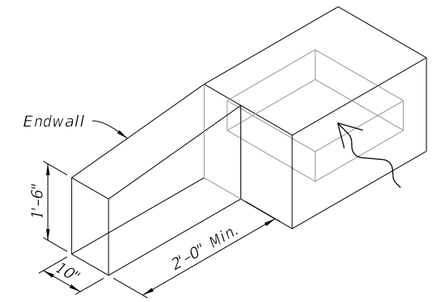
DRAINAGE DETAILS

SHEET NUMBER
21

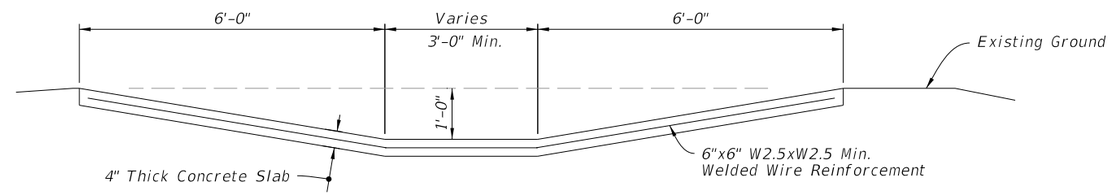
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



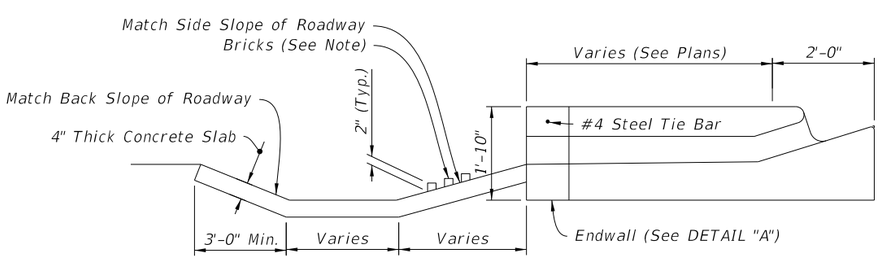
PLAN



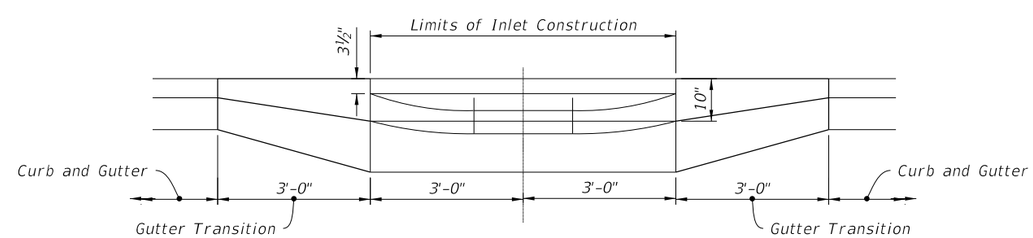
DETAIL "A"



SECTION D-D



SIDE ELEVATION



FRONT ELEVATION

TYPE II DIMENSIONAL DETAILS

No.	REVISIONS	DATE	BY

Kimley»Horn

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1800 SECOND STREET, SUITE 900, SARASOTA, FL 34236
PHONE: 941-379-7600
WWW.KIMLEY-HORN.COM

KHA PROJECT 148400070
DATE 10/02/2025
SCALE AS SHOWN
DESIGNED BY
DRAWN BY
CHECKED BY

Manatee County FLORIDA

9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

DRAINAGE DETAILS

SHEET NUMBER
22

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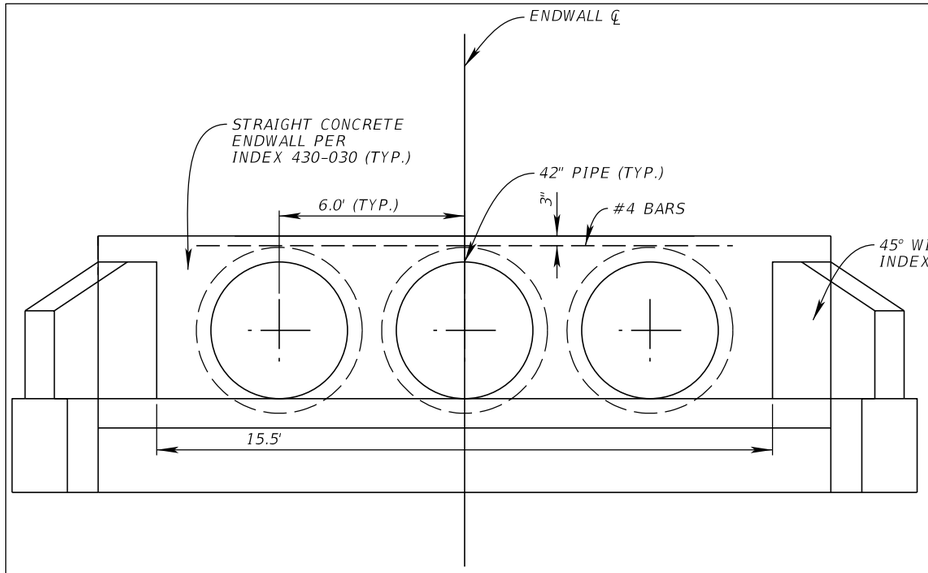
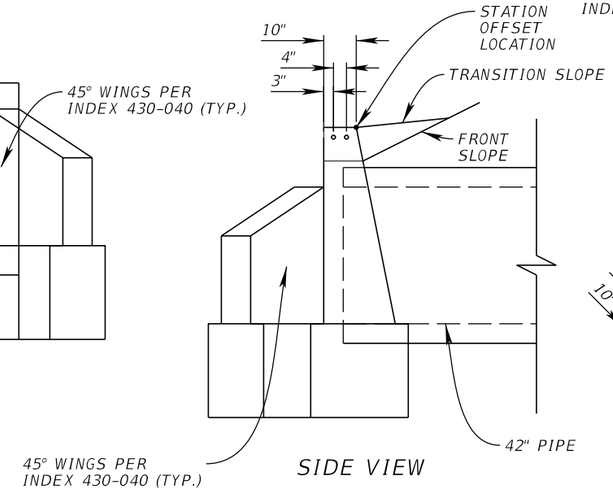
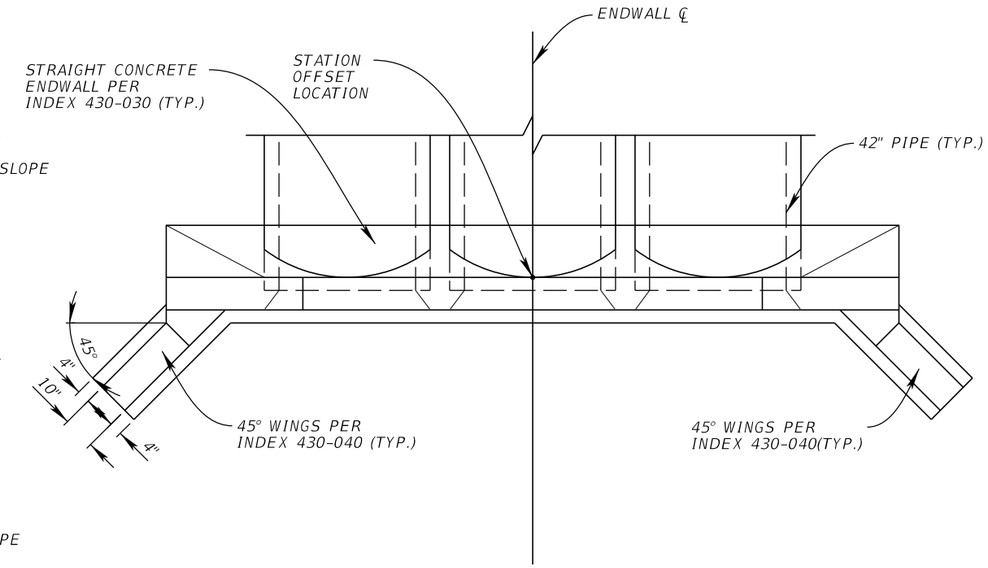


FRONT VIEW

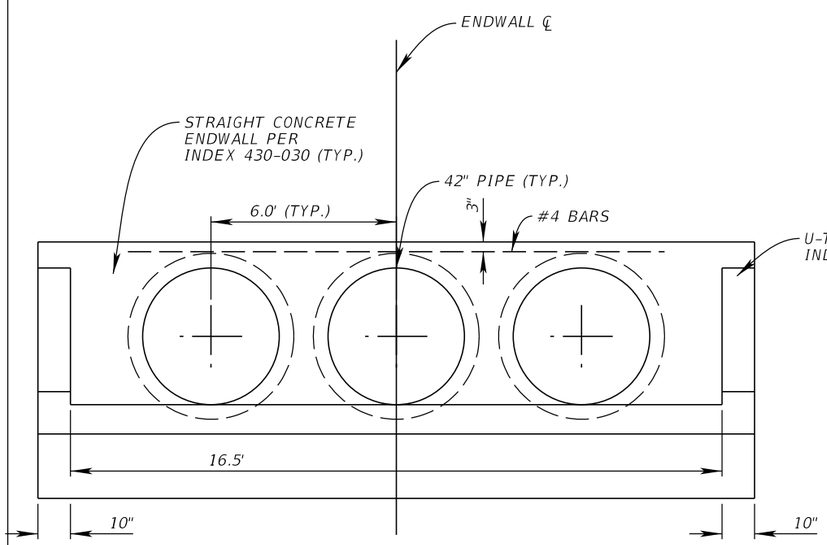


SIDE VIEW

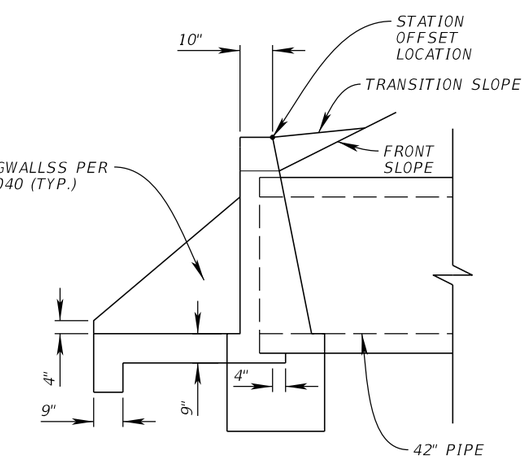


PLAN VIEW

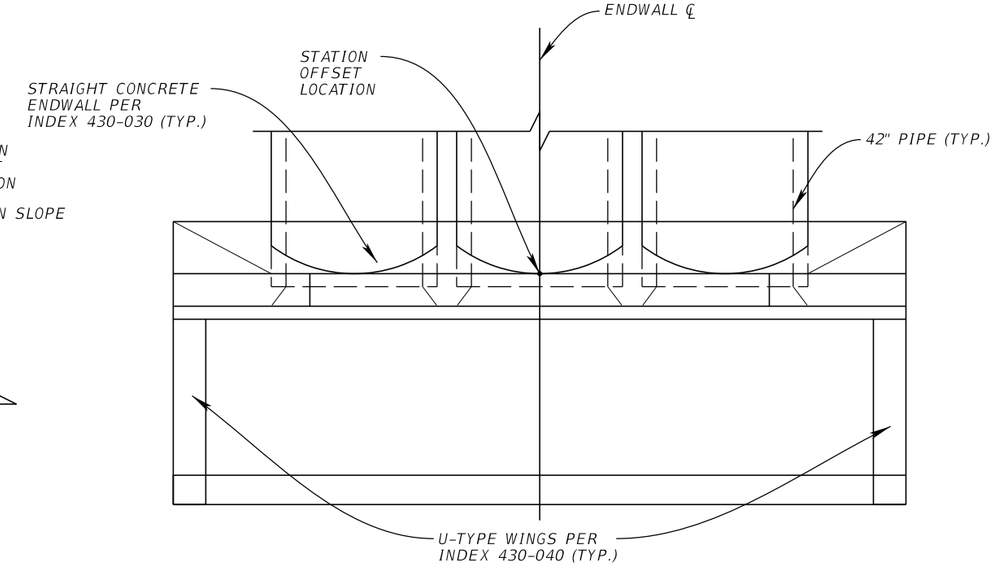
ENDWALL WITH 45° WINGS



FRONT VIEW



SIDE VIEW



PLAN VIEW

ENDWALL WITH U-TYPE WINGS

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FL LICENSE NUMBER 76102
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DRAINAGE DETAILS

SHEET NUMBER 23

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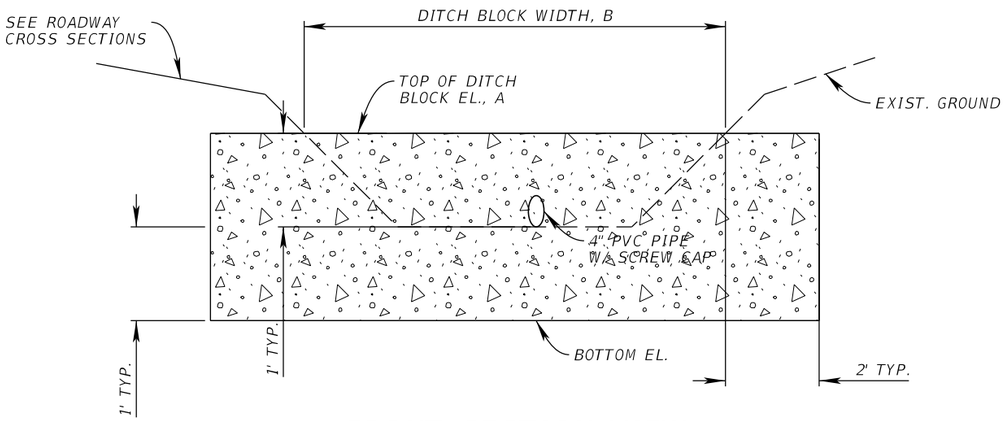
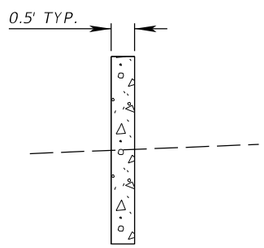
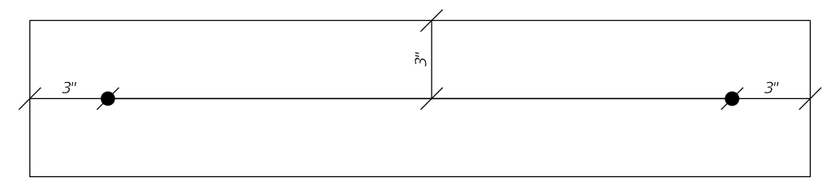


FRONT SECTION VIEW
N.T.S.



SIDE SECTION VIEW
N.T.S.



#4 @ 12" O/C EW
CENTERED IN SLAB

DITCH BLOCK REINFORCEMENT DETAIL
N.T.S.

STATION	SIDE	TOP OF DITCH BLOCK EL., A	DITCH BLOCK WIDTH, B	CLEANOUT INVERT EL., C	BOTTOM EL.
36+60	LT.	1.4	6.6	0.4	-0.8
37+20	LT.	1.8	7.7	0.8	-0.5

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DRAINAGE DETAILS

SHEET NUMBER
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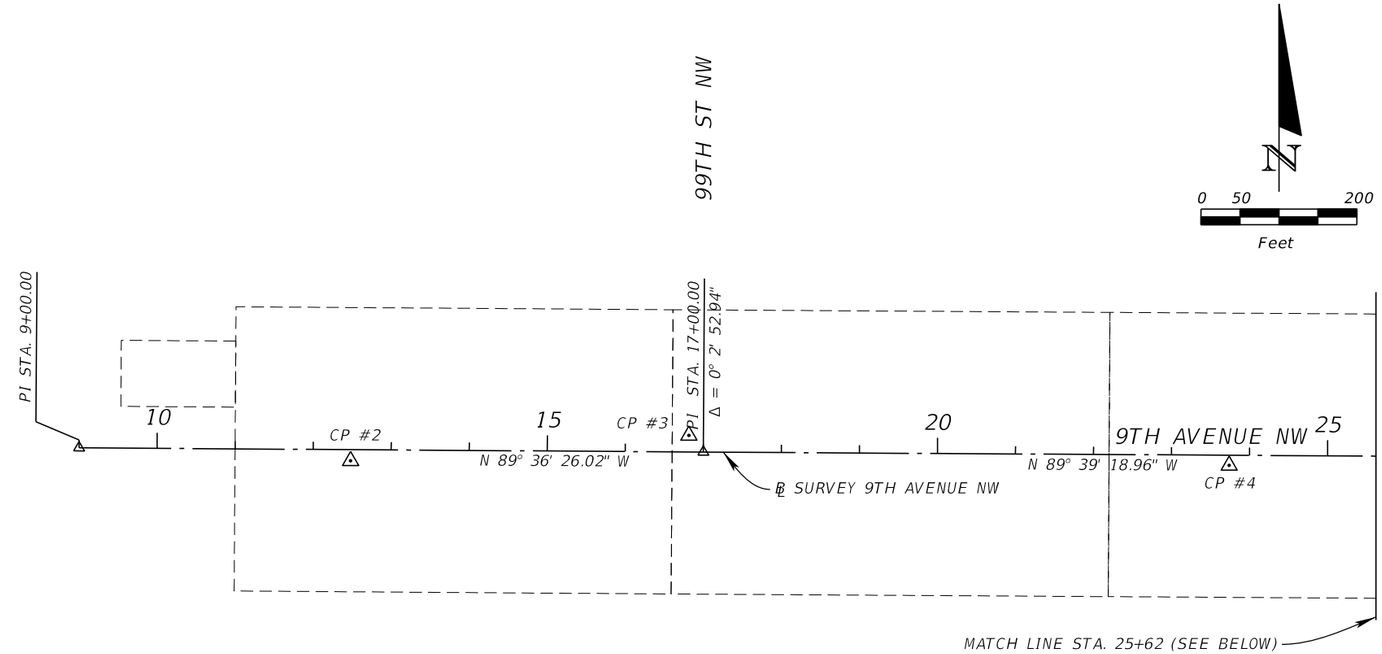

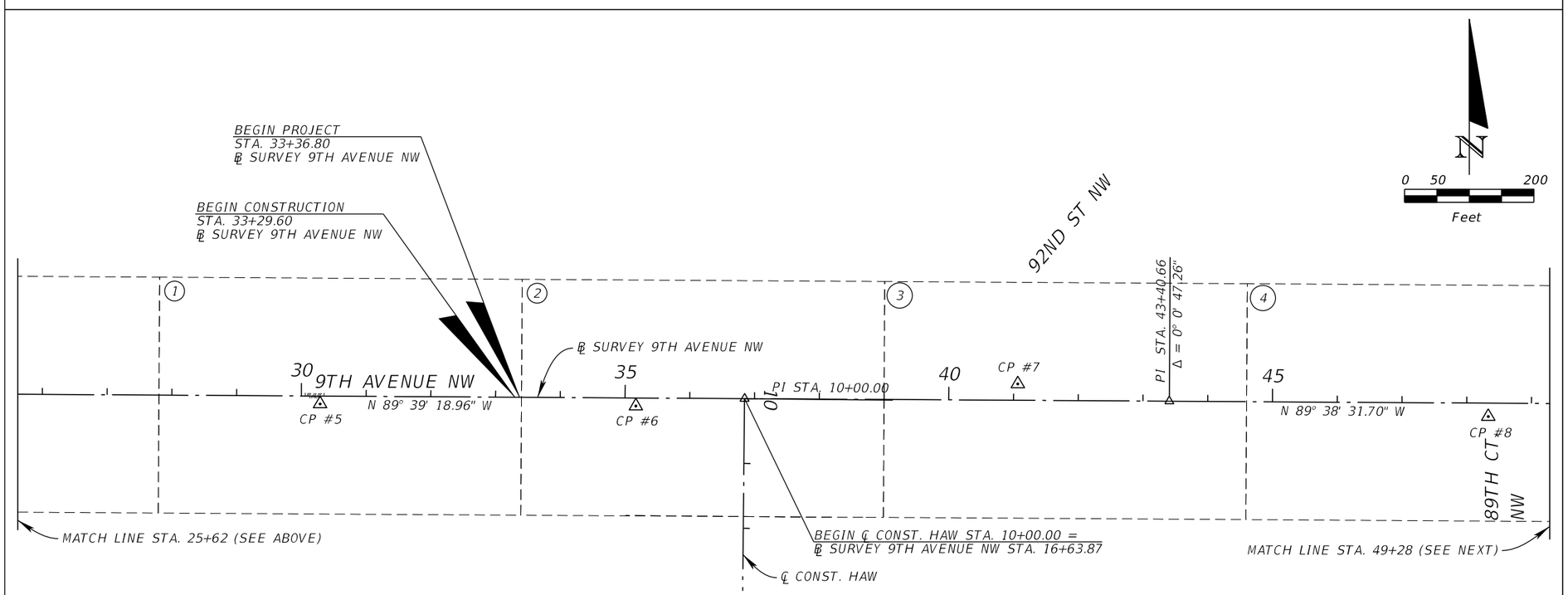

SITE CONTROL:

CP #2
NORTHING: 1154098.073
EASTING: 441460.871
ELEVATION: 3.71
STATION: 12+48.07
OFFSET: 14.28 RT.

CP #3
NORTHING: 1154130.618
EASTING: 441894.432
ELEVATION: 3.82
STATION: 16+81.40
OFFSET: 21.24 LT.

CP #4
NORTHING: 1154092.276
EASTING: 442586.723
ELEVATION: 3.50
STATION: 23+73.92
OFFSET: 12.92 RT.

CP #5
NORTHING: 1154089.135
EASTING: 443241.817
ELEVATION: 3.82
STATION: 30+29.02
OFFSET: 12.12 RT.

CP #6
NORTHING: 1154085.929
EASTING: 443729.500
ELEVATION: 3.31
STATION: 35+16.72
OFFSET: 12.39 RT.

CP #7
NORTHING: 1154119.978
EASTING: 444319.451
ELEVATION: 5.04
STATION: 41+06.45
OFFSET: 25.21 LT.

CP #8
NORTHING: 1154069.687
EASTING: 445046.167
ELEVATION: 11.33
STATION: 48+33.46
OFFSET: 20.60 RT.

LEGEND:

- △ CONTROL POINT
- (X) PLAN SHEET REFERENCE NUMBER
- — — PLAN SHEET CLIP OUTLINE

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Manatee County FLORIDA

9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

PROJECT LAYOUT AND CONTROL (1)

SHEET NUMBER 25

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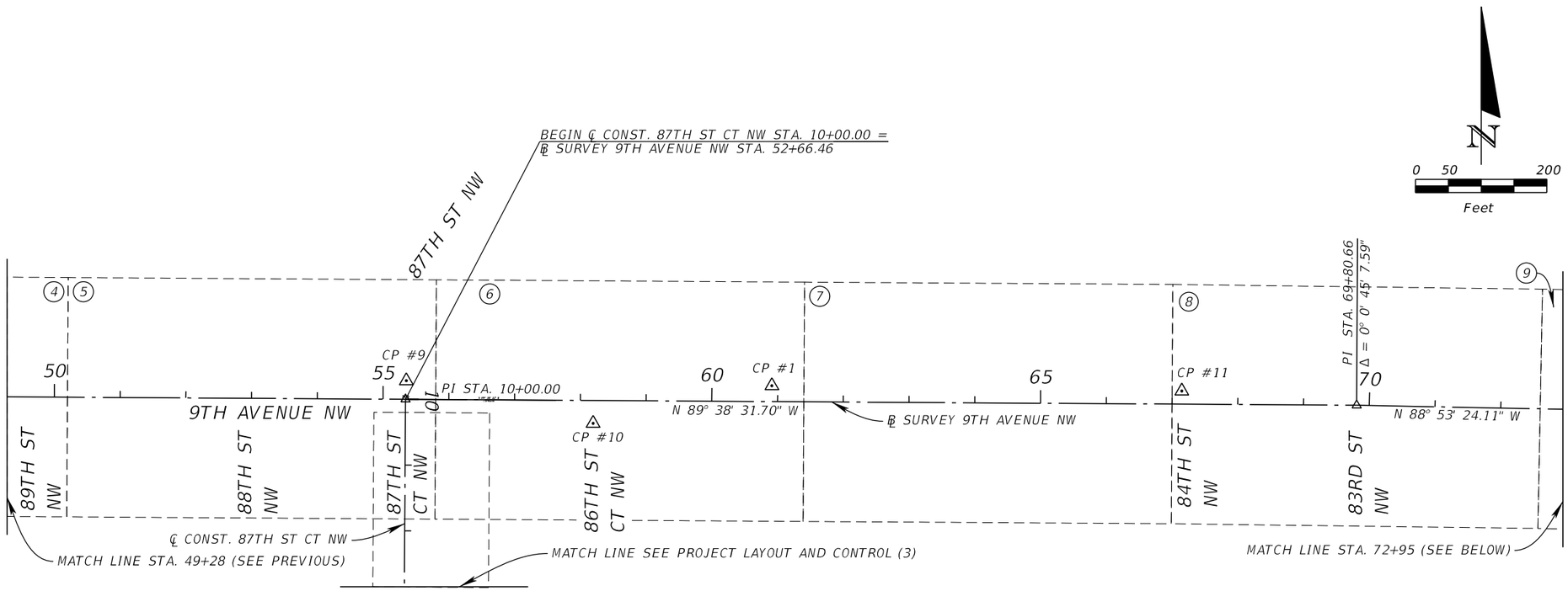

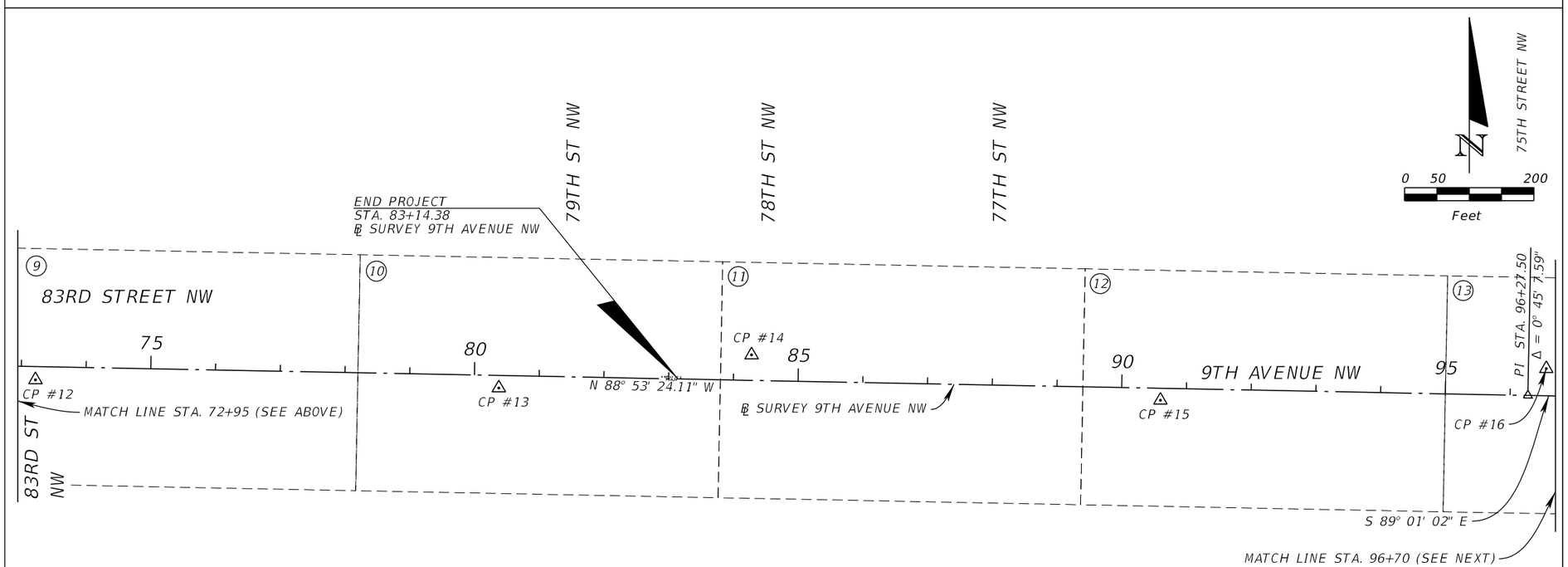

SITE CONTROL:

CP #9
NORTHING: 1154114.156
EASTING: 445748.197
ELEVATION: 14.40
STATION: 55+35.20
OFFSET: 28.26 LT.

CP #10
NORTHING: 1154051.703
EASTING: 446033.167
ELEVATION: 16.11
STATION: 58+20.56
OFFSET: 32.42 RT.

CP #1
NORTHING: 1154106.565
EASTING: 446304.175
ELEVATION: 15.73
STATION: 60+91.22
OFFSET: 24.14 LT.

CP #11
NORTHING: 1154098.519
EASTING: 446927.657
ELEVATION: 16.17
STATION: 67+14.74
OFFSET: 19.99 LT.

CP #12
NORTHING: 1154049.650
EASTING: 447534.511
ELEVATION: 13.57
STATION: 73+22.18
OFFSET: 20.61 RT.

CP #13
NORTHING: 1154037.062
EASTING: 448250.233
ELEVATION: 4.73
STATION: 80+38.02
OFFSET: 19.33 RT.

CP #14
NORTHING: 1154088.182
EASTING: 448640.617
ELEVATION: 4.53
STATION: 84+27.34
OFFSET: 39.34 LT.

CP #15
NORTHING: 1154018.208
EASTING: 449272.158
ELEVATION: 7.33
STATION: 90+60.11
OFFSET: 18.39 RT.

CP #16
NORTHING: 1154067.052
EASTING: 449868.214
ELEVATION: 8.35
STATION: 96+55.20
OFFSET: 41.93 LT.

LEGEND:

- CONTROL POINT
- (X) PLAN SHEET REFERENCE NUMBER
- — — PLAN SHEET CLIP OUTLINE

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CHECKED BY

Manatee County FLORIDA

9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

PROJECT LAYOUT AND CONTROL (2)

SHEET NUMBER 26

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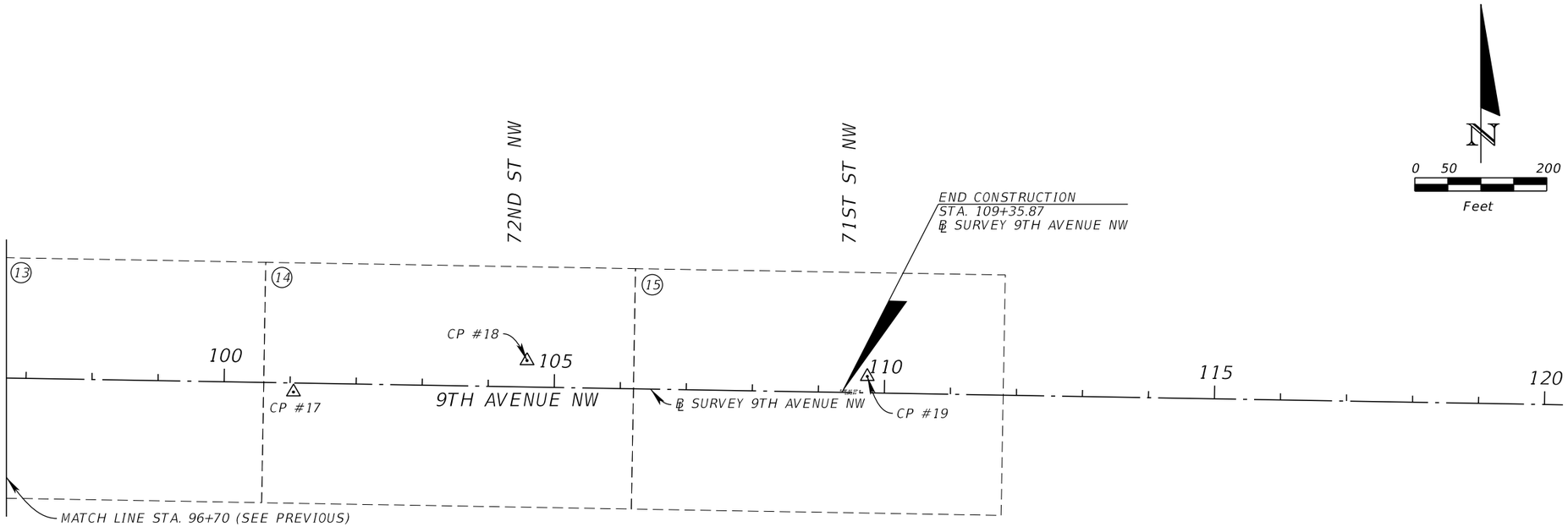

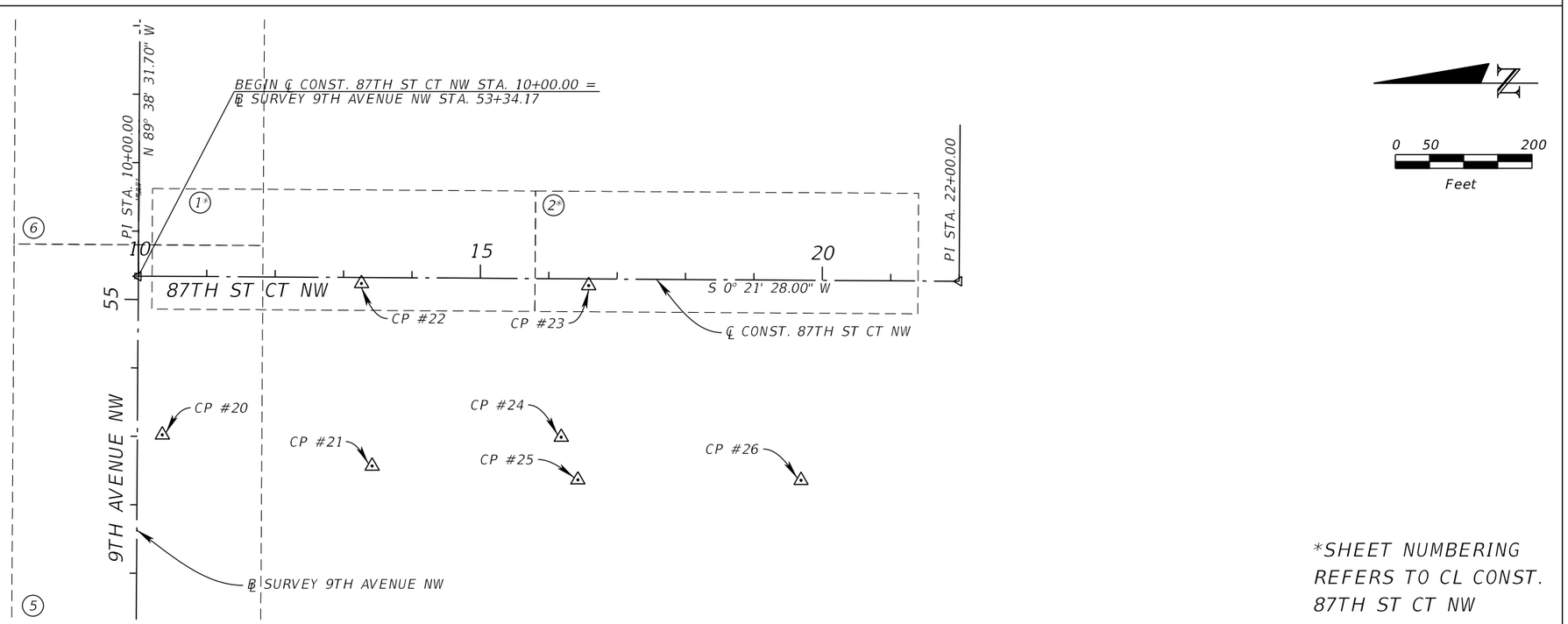

*SHEET NUMBERING REFERS TO CL CONST. 87TH ST CT NW

SITE CONTROL:

CP #17
NORTHING: 1154003.861
EASTING: 450317.276
ELEVATION: 8.60
STATION: 101+05.28
OFFSET: 13.55 RT.

CP #18
NORTHING: 1154051.330
EASTING: 450671.032
ELEVATION: 7.26
STATION: 104+58.17
OFFSET: 39.98 LT.

CP #19
NORTHING: 1154027.392
EASTING: 451186.318
ELEVATION: 4.29
STATION: 109+73.80
OFFSET: 24.89 LT.

CP #20
NORTHING: 1154050.924
EASTING: 445515.019
ELEVATION: 13.93
STATION: 53+02.42
OFFSET: 36.43 RT.

CP #21
NORTHING: 1153744.159
EASTING: 445469.558
ELEVATION: 12.19
STATION: 52+58.88
OFFSET: 343.47 RT.

CP #22
NORTHING: 1153759.694
EASTING: 445736.213
ELEVATION: 14.75
STATION: 55+25.43
OFFSET: 326.27 RT.

CP #23
NORTHING: 1153427.529
EASTING: 445733.178
ELEVATION: 8.10
STATION: 55+24.47
OFFSET: 658.45 RT.

CP #24
NORTHING: 1153467.654
EASTING: 445511.652
ELEVATION: 11.10
STATION: 53+02.70
OFFSET: 619.71 RT.

CP #25
NORTHING: 1153443.352
EASTING: 445449.352
ELEVATION: 10.93
STATION: 52+40.55
OFFSET: 644.40 RT.

CP #26
NORTHING: 1153117.066
EASTING: 445448.662
ELEVATION: 1.95
STATION: 52+41.90
OFFSET: 970.69 RT.

LEGEND:

- CONTROL POINT
- PLAN SHEET REFERENCE NUMBER
- PLAN SHEET CLIP OUTLINE

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PROJECT LAYOUT AND CONTROL (3)

SHEET NUMBER 27

GENERAL

1. ALL CONSTRUCTION ACTIVITES SHALL BE COORDINATED WITH THE PROJECT MANAGEMENT DIVISION. THE PROJECT MANAGER IS: STEVE CLARK AND CAN BE REACHED AT (941) 748-4501; EXT. 7326.

2. SITE VISITS ARE MANDATORY FOR ALL BIDDERS. THESE SITE VISITS CAN BE ARRANGED THROUGH THE PROJECT MANAGER.

3. ALL CONSTRUCTION ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF MANATEE COUNTY UTILITY AND TRANSPORTATION STANDARDS AND/OR FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" UNLESS OTHERWISE INDICATED ON THE PLANS.

4. VERTICAL CONTROL FOR THE PROJECT WAS ESTABLISHED BY A MINIMUM OF TWO REFERENCE BENCHMARKS DESCRIBED ON THE "THE NORTH AMERICAN VERTICAL DATUM OF 1988", (NAVD '88).

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL CONDITIONS AND REQUIREMENTS OF ALL PERMITS AND ALL GOVERNING FEDERAL, STATE, AND LOCAL AGENCIES. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS THAT ARE NOT PROVIDED IN THE BID DOCUMENTS, AT NO ADDITIONAL COST TO THE OWNER.

6. THE INFORMATION PROVIDED IN THESE PLANS IS SOLEY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATION THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED.

7. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS ON THE PLANS AND REVIEW ALL FIELD CONDTIONS THAT MAY AFFECT CONSTRUCTION. SHOULD DISCREPANCIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO OBTAIN THE ENGINEER'S CLARIFICATION BEFORE COMMENCING WITH CONSTRUCTION.

8. AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE CALL OF FLORIDA AT 1-800-432-4770 OR THE NATIONAL 811 ONE CALL NUMBER WHEN APPLICABLE FOR UTILITY LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL UTILITIES FOR THE POSSIBLE RELOCATION OR THE TEMPORARY MOVEMENT OF ANY EXISTING UTILITIES WITHIN THE RIGHTS-OF-WAY.

9. ALL STATIONS AND OFFSETS REFER TO BASELINE OF SURVEY, UNLESS OTHERWISE NOTED.

10. THE CONSTRUCTION LENGTHS IN THESE PLANS ARE APPROXIMATE. ACTUAL LIMITS MAY BE SET IN THE FIELD AS DIRECTED BY THE ENGINEER.

11. SEPARATE PAYMENT SHALL BE MADE ONLY FOR THE ITEMS OF WORK LISTED AND IDENTIFIED BY APPROPRIATE PAY ITEM ON THE BID FORM. THE COST OF ANY RELATED WORK NOT SPECIFICALLY IDENTIFIED, BUT WHICH IS REQUIRED FOR SATISFACTORY COMPLETION OF THE WORK, SHALL BE CONSIDERED TO BE INCLUDED IN THE CONTRACT PRICE FOR THE APPROPRIATE BID ITEM.

12. THE CONTRACTOR SHALL HAVE A FOREMAN, OR RESPONSIBLE PARTY, ON SITE AT ALL TIMES WHEN WORK IS BEING PERFORMED. ALL WORKERS ON THE JOB SITE WILL BE COURTEOUS TO THE PUBLIC AT ALL TIMES, AND SHALL REFER ANY QUESTIONS OR CONCERNS TO THE CONTRACTOR'S FOREMAN OR THE COUNTY INSPECTOR. THE FOREMAN SHALL SPEAK AND UNDERSTAND ENGLISH AND SHALL BE AVAILABLE AT ALL TIMES FOR TIMELY RESOLUTION OF PROJECT-RELATED ISSUES.

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE COORDINATION OF CONSTRUCTION SCHEDULING BETWEEN CONTRACTOR AND ALL UTILITY AGENCIES.

    NOTE:
    THIS INCLUDED MEETING WITH UTILITY AGENCIES PRIOR TO THE PRE-CONSTRUCTION CONFERENCE TO ADJUST THEIR SCHEDULES TO COINCIDE WITH THE CONTRACTORS CONSTRUCTION SCHEDULE. (REFERENCE CONTRACT DOCUMENTS)

14. ANY DAMAGE TO STATE, COUNTY, OR LOCAL ROADS CAUSED BY THE CONTRACTOR'S HAULING OR EXCAVATION EQUIPMENT SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE COUNTY PROJECT MANAGER. PAYMENT SHALL NOT BE MADE FOR THIS WORK.

15. ALL CONSTRUCTION WITHIN MANATEE COUNTY RIGHT-OF-WAY IS TO BE IN ACCORDANCE WITH CURRENT FDOT STANDARD SPECIFICATIONS FOR ROADWAY CONSTRUCTION AND THE DESIGN STANDARDS.

16. ALL SIGNING AND PAVEMENT MARKINGS SHALL BE PROVIDED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MUTCD, FDOT DESIGN STANDARDS, AND THE MANATEE COUNTY PUBLIC WORKS DEPARTMENT HIGHWAY, TRAFFIC, AND STORMWATER STANDARDS.

17. ALL CONSTRUCTION WITHIN MANATEE COUNTY RIGHT-OF-WAY IS TO BE PER MANATEE COUNTY PUBLIC WORKS STANDARDS.

18. ALL EXISTING DRAINAGE STRUCTURES WITHIN THE PROJECT LIMITS SHALL BE REMOVED UNLESS OTHERWISE CALLED FOR IN THE PLANS.

19. EXISTING LARGE TREES TO REMAIN UNLESS NOTED OTHERWISE.

SAFETY

20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE FLORIDA TRENCH SAFETY ACT, 90-96, LAWS OF FLORIDA EFFECTIVE OCTOBER 1, 1990 AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION EXCAVATION SAFETY STANDARDS, 29 CFR 1926.650, SUBPART P, AS AMENDED. THE CONTRACTOR SHALL INCLUDE IN THE TOTAL BID PRICE ALL COSTS FOR COMPLIANCE WITH THESE REGULATIONS.

21. THE CONTRACTOR SHALL USE SHEET PILING, SHEETING, BRACING, ETC., AS REQUIRED IN ALL EXCAVATION AREAS AND CONFORM TO ALL OSHA REQUIREMENTS.

22. THE CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND UTILITIES, POWER LINES, ETC.

23. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THIS EXCLUSION DOES NOT ALLEVIATE THE CONTRACTOR FOR PROVIDING A CONTINUOUS SAFE WORKSPACE.

ENVIRONMENTAL

24. CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL SEDIMENT AND EROSION CONTROL (SEC) DEVICES (E.G., BARRIERS, SEDIMENT TRAPS/BASINS, VEGETATIVE BUFFERS, ETC.) AS SPECIFIED IN THE FINAL APPROVED PLANS FOR THE PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL SEC DEVICES UTILIZED DURING THE PROJECT, AS WELL AS INSTALLATION & MAINTENANCE OF ANY ADDITIONAL MEASURES DEEMED NECESSARY DURING PROJECT IMPLEMENTATION, TO PREVENT EROSION AND OFF-SITE SEDIMENT MIGRATION. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REMOVAL AND PROPER DISPOSAL OF ALL SEC DEVICES UPON CONCLUSION OF THE PROJECT, AND UPON ADEQUATE STABILIZATION OF DISTURBED SOILS.

25. WHEN A BENTONITE SPILL OR FRACK-OUT OCCURS OR THERE IS A LOSS OF RETURN INDICATING EXCESSIVE SEEPAGE OR LOSS OF DRILLING FLUID, DRILLING MUST BE STOPPED UNTIL THE LOCATION OF THE SPILL IS IDENTIFIED. UNDER NO CIRCUMSTANCES WILL DRILLING CONTINUE WHEN A SPILL IS APPARENT.

26. ONCE LOCATED, THE BENTONITE SPILL MUST BE ISOLATED AND SEEPAGE INTO ANY NEARBY WATER BODIES WILL BE BLOCKED DEPENDING ON THE DEGREE OF THE SPILL, THE ISOLATED BENTONITE MUST BE REMOVED MANUALLY OR MECHANICALLY AND DISPOSED OF BY APPROPRIATE MEANS OR REUSED.

27. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY STORM WATER, EROSION, AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE FDEP "FLORIDA STORM WATER, EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL". IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTROL AND PREVENT EROSION AND TRANSPORT OF SEDIMENT TO SURFACE DRAINS AND TO DITCHES DURING CONSTRUCTION.

28. STOCKPILES SHALL BE PROTECTED AT ALL TIMES BY ON-SITE DRAINAGE CONTROLS WHICH PREVENT EROSION OF THE STOCKPILED MATERIAL. CONTROL OF DUST FROM SUCH STOCKPILES IS REQUIRED, DEPENDING UPON THEIR LOCATION AND THE EXPECTED LENGTH OF TIME THE STOCKPILES WILL BE PRESENT. IN NO CASE SHALL ANY STOCKPILED MATERIAL REMAIN AFTER THIRTY (30) CALENDAR DAYS.

29. STORM WATER INLETS IN THE VICINITY OF THE PROJECT SHALL BE PROTECTED BY SEDIMENT TRAPS SUCH AS SECURED HAY BALES, SOD, STONE, ETC., WHICH SHALL BE MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS, AND WHICH MUST BE APPROVED BY THE ENGINEER BEFORE INSTALLATION. THIS WILL BE MAINTAINED TO PREVENT DEGRADATION OF THE WATERS OF THE COUNTY AND STATE.

30. SEDIMENT BASINS AND TRAPS, PERIMETER BERMS, SEDIMENT BARRIERS, VEGETATIVE BUFFERS, AND OTHER MEASURES INTENDED TO TRAP SEDIMENT AND/OR PREVENT THE TRANSPORT OF SEDIMENT ONTO ADJACENT PROPERTIES, OR INTO EXISTING BODIES OF WATER, MUST BE INSTALLED, CONSTRUCTED, OR IN THE CASE OF VEGETATIVE BUFFERS, PROTECTED FROM DISTURBANCE, AS A FIRST STEP IN THE LAND ALTERATION PROCESS. SUCH SYSTEMS SHALL BE FULLY OPERATIVE BEFORE ANY OTHER DISTURBANCE OF THE SITE BEGINS. EARTHEN STRUCTURES INCLUDING BUT NOT LIMITED TO BERMS, EARTH FILTERS, DAMS OR DIKES SHALL BE STABILIZED AND PROTECTED FROM DRAINAGE DAMAGE OR EROSION WITHIN ONE (1) WEEK OF INSTALLATION.

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No.	REVISIONS	DATE	BY

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KHA PROJECT 148400070
DATE 10/02/2025
SCALE AS SHOWN
DESIGNED BY
DRAWN BY
CHECKED BY

Manatee County FLORIDA

9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
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GENERAL NOTES

SHEET NUMBER
28

31. ALL SWALES, DITCHES, AND CHANNELS LEADING FROM THE SITE SHALL BE PROTECTED FROM SILTATION AND EROSION DURING CONSTRUCTION AND BE SODDED WITHIN THREE (3) DAYS OF EXCAVATION.

32. SOIL DISPLACED BY CONSTRUCTION WILL BE REMOVED. EROSION CONTROL SHALL BE IMPLEMENTED IN AREAS WHICH ARE CONSIDERED ENVIRONMENTALLY SENSITIVE. EROSION CONTROL SYSTEMS SHALL BE REQUIRED FOR ALL WORK WITHIN JURISDICTIONAL AREAS. THESE SYSTEMS MAY INCLUDE STAKED HAY BALES, SILT SCREENS, FILTER FABRIC, AND TURBIDITY SCREENS.

33. ALL EROSION AND POLLUTION CONTROL DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER EACH RAINFALL AND SHALL BE CLEANED OUT AND/OR REPAIRED AS REQUIRED.

34. THE CONTRACTOR SHALL NOT ENTER UPON OR IN ANY WAY ALTER WETLAND AREAS THAT MAY BE ON OR NEAR THE CONSTRUCTION SITE, UNLESS OTHERWISE SHOWN ON THE PLANS. ALL WORK IN THE VICINITY OF OPEN WATER AND/OR WETLANDS IS TO BE PERFORMED IN COMPLIANCE WITH THE ENVIRONMENTAL REGULATIONS AND/OR PERMITS FOR THE SITE. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY FINES RESULTING FROM HIS VIOLATION OF ANY REGULATIONS OR PERMIT CONDITIONS.

35. FOR MORE INFORMATION, SEE THE EROSION CONTROL DETAIL SHEET INCLUDED IN THE PLANS.

RIGHT OF WAY

36. ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE MANATEE COUNTY/FDOT RIGHT-OF-WAY AND/OR EASEMENTS SHOWN ON THE DRAWINGS.

37. THE CONTRACTOR SHALL EMPLOY A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA TO REFERENCE AND RESTORE PROPERTY CORNER MONUMENTS, PINS, AND LANDMARKS THAT MAY BE DISTURBED BY CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.

38. THE CONTRACTOR, PRIOR TO CONSTRUCTION AND RESTRICTING ANY TRAFFIC, MUST OBTAIN A RIGHTS-OF-WAY USE PERMIT AND A TRAFFIC CONTROL PLAN. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM OTHER GOVERNMENTAL AGENCIES HAVING RELEVANT JURISDICTION. ALL MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE CURRENT FEDERAL HIGHWAY ADMINISTRATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD). A TRAFFIC CONTROL PLAN SHALL BE SUPPLIED BY THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING.

39. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL DAMAGED STORM WATER STRUCTURES, PIPING, ENTRANCE PIPE AND HEADWALLS, THAT ARE TO REMAIN, WHETHER SHOWN ON THE PLANS OR NOT.

40. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH IN THE FIELD THE RIGHT-OF-WAY LINES, BASE LINES, BENCH MARKS (ELEV.), CENTER LINES, AND STATIONING AS REQUIRED TO CONSTRUCT THIS PROJECT. ROADWAY PLANS AND PROPOSED DESIGN ARE BASED ON TOPOGRAPHIC SURVEYS PROVIDED BY HYATT SURVEY INC. REFER TO THE ORIGINAL SIGNED AND SEALED SURVEY CONTROL SHEETS IN THE PROJECT FILE.

41. THE CONTRACTOR SHALL COORDINATE THE CUTTING OF DRIVEWAYS WITH THE PROPERTY OWNER PRIOR TO CUT. ALL DRIVEWAYS WILL BE IN PASSABLE CONDITION AT THE END OF THE WORK DAY AND FULLY RESTORED PER PLAN. THE CONTRACTOR SHALL COORDINATE WITH THE AFFECTED UTILITY COMPANY FOR THE ADJUSTMENT OF ANY EXISTING UTILITIES AND STRUCTURES IN ORDER TO MATCH THE PROPOSED ELEVATIONS AND ALIGNMENTS.

UTILITIES

42. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THERE MAY BE OTHER IMPROVEMENTS, UTILITIES, ETC. WHICH ARE WITHIN THE PROJECT AREA AND WHICH HAVE NOT BEEN LOCATED OR IDENTIFIED, MAY NOT BE IN THE EXACT LOCATION SHOWN OR RELOCATED SINCE THE PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES STRUCTURES AND OTHER FEATURES (WHETHER OR NOT SHOWN ON THE PLANS) THAT MAY AFFECT HIS WORK. ALL EXISTING UTILITIES TO BE EXTENDED, CROSSED OR CONNECTION POINTS SHALL BE EXPOSED PRIOR TO CONSTRUCTION TO VERIFY LOCATION AND ELEVATION. ANY DISCREPANCIES OR CONFLICTS FOUND SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR RESOLUTION. UTILITIES DESIGNATED VV, VH, AND VVH ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED BEEN VERIFIED. EXTREME CAUTION SHALL BE EXERCISED WHEN WORKING NEAR UTILITIES.

43. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, WATER AND SEWER LINES, STORM DRAINS, UTILITIES, DRIVEWAYS, SIDEWALKS, SIGNS, MAIL BOXES, FENCES, TREES, LANDSCAPING, AND ANY OTHER IMPROVEMENT OR FACILITY IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DAMAGED ITEM DUE TO HIS CONSTRUCTION ACTIVITIES TO EQUAL OR BETTER THAN PRE-CONSTRUCTION CONDITIONS AT NO ADDITIONAL COST TO THE OWNER. LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN.

44. ALL EXISTING FACILITIES IN THE PROJECT AREA SHALL REMAIN OPERATIONAL AND ACCESSIBLE BY COUNTY PERSONNEL AT ALL TIMES, I.E. VALVES, FIRE HYDRANTS, MANHOLE COVERS, SEWER CLEAN-OUTS, ETC. ALL SHALL BE ADJUSTED TO FINISHED GRADE.

45. THE CONTRACTOR SHALL USE APPROPRIATE TECHNIQUES, AS APPROVED, RECOMMENDED OR OFFERED BY FLORIDA POWER AND LIGHT TO PREVENT UNDERMINING OF POWER POLES DURING CONSTRUCTION. IF HOLDING OF POWER POLES IS RECOMMENDED OR REQUIRED BY THE UTILITY, THE CONTRACTOR SHALL COORDINATE THIS ACTIVITY WITH THE UTILITY AND BEAR ALL RELATED COSTS.

46. EXCEPT WHERE THE PLANS AND SPECIFICATIONS PROVIDE THAT SUCH WORK SHALL BE PERFORMED UNDER THE CONTRACT FOR THIS PROJECT. ALL UTILITIES INTERFERING WITH CONSTRUCTION SHALL BE REMOVED, RELOCATED OR ADJUSTED BY THEIR OWNERS, AT THEIR EXPENSE. THE CONTRACTOR SHALL ARRANGE HIS SCHEDULE TO ALLOW UTILITY OWNERS TIME FOR THE NECESSARY RELOCATION AND ADJUSTMENT OF UTILITIES AND RELATED STRUCTURES.

47. A FLORIDA POWER AND LIGHT SPECIAL PROVISION IS THAT THE TYPE OF EQUIPMENT USED IN THE INSTALLATION OF MAST ARMS/FOUNDATIONS, OVERHEAD/CANTILEVER SIGNS/ROUNDATIONS, AND THE MOVEMENT/INSTALLATION OF STRAIN POLES SHALL MEET THE FOLLOWING REQUIREMENTS: 1) OVERHEAD LINES SHALL STAY IN PLACE BOTH VERTICALLY AND HORIZONTALLY 2) CONTRACTOR SHALL MEET ALL APPLICABLE OSHA REQUIREMENTS (SEPARATION SHALL FOLLOW FPL GUIDELINES). ANY COST ASSOCIATED WITH THIS TYPE OF EQUIPMENT REQUIRED FOR THIS INSTALLATION IS INCLUDED IN THE RELATED PAY ITEMS. PLEASE REFER TO THE SPECIAL CONDITIONS IN THE UTILITY WORK SCHEDULE AND UTILITY COORDINATION.

48. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL UTILITY COMPANIES FOR THE RELOCATION AND ADJUSTMENT OF ALL UTILITIES, INCLUDING, ANY EXISTING POWER POLES AND/OR UTILITY CONDUITS WITHIN RIGHT-OF-WAY.

49. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE APPROPRIATE PARTIES TO DETERMINE THE COUNTY'S FIBER COMMUNICATION NETWORK, KNOWN AS ATMS (COUNTY ISD, SCHOOL BOARD, AND TRAFFIC MANAGEMENT CENTER) IN THE AREA TO ACCOMMODATE ANY POTENTIAL CONFLICTS. AS-BUILT INFORMATION FOR EXISTING COMMUNICATION CONDUIT AND FIBER IS AVAILABLE FROM OLGA ROSIER, WITH UTILITY RECORDS (941-792-8811 EXT. 5059). CONSTRUCTION PLAN INFORMATION FOR PROJECTS UNDER CONSTRUCTION WITH THE COUNTY'S TRAFFIC MANAGEMENT CENTER ARE AVAILABLE AT WWW.MANATEEATMS.COM AND WWW.MANATEEATMS2.COM.

50. IN THE EVENT OF A PRECAUTIONARY OR MANDATORY BOIL WATER NOTICE, THE CONTRACTOR IS RESPONSIBLE TO NOTIFY ALL AFFECTED INDIVIDUALS AND BUSINESSES.

51. WORK MAY NEED TO BE SCHEDULED DURING OVERNIGHT HOURS AT THE DISCRETION OF THE COUNTY. THE COUNTY WILL NOT INCUR ANY NEW FEES OR PENALTIES FOR OVERNIGHT WORK.

52. ALL WATER/RECLAIM CONNECTIONS (TAPPING SADDLES, VALVES, PIPING CROSSING, WATER SERVICES, ETC.) SHALL DUG UP WITH A COUNTY REPRESENTATIVE TO VERIFY IT MEETS CURRENT COUNTY STANDARDS. IF THE UTILITY DOES NOT MEET CURRENT STANDARDS, IT WILL NEED TO BE REPLACED TO CURRENT STANDARDS.

53. REPLACE ALL WATER SERVICES PER COUNTY STANDARD FROM MAIN TO METER TO THE NEW RIGHT-OF-WAY.

54. ALL VALVES SHALL BE SET TO PROPOSED GRADE PER COUNTY STANDARD BY CONTRACTOR.

55. ANY WATER OR RECLAIM MAIN LINES OR SERVICES DAMAGED DURING CONSTRUCTION MUST BE REPLACED FROM RIGHT-OF-WAY TO RIGHT-OF-WAY AND WATER SERVICES FROM CORP ON MAIN TO METER.

56. CHECK ALL WATER LINES AND FIRE HYDRANT CONNECTIONS AT MAIN FOR SADDLE/SLEEVE VALVE REPLACEMENT.

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DRAINAGE AND GRADING

57. ALL CONSTRUCTION IS TO BE STAKED IN THE FIELD BY OR UNDER THE SUPERVISION OF A FLORIDA REGISTERED LAND SURVEYOR.

58. THE CONTRACTOR IS TO PROVIDE THE ENGINEER OF RECORD WITH REPRODUCIBLE RECORD DRAWINGS SHOWING ALL IMPROVEMENT LOCATIONS AND ELEVATIONS IN ACCORDANCE WITH LATEST MANATEE COUNTY TRANSPORTATION DEPARTMENT STANDARDS AND SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT (SWFWMD) STANDARDS. THE CONTRACTOR SHALL ALSO PROVIDE FIVE SETS OF PRINTS, SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR, OF THE RECORD DRAWINGS TO THE ENGINEER OF RECORD. THESE RECORD DRAWINGS SHALL BE CERTIFIED TO THE OWNER, APPROPRIATE GOVERNMENTAL AGENCIES. RECORD DRAWINGS SHALL SPECIFICALLY INCLUDE STORMWATER FACILITY LOCATIONS, INCLUDING TOP OF BANK, UNDERDRAIN AND CONTROL STRUCTURES, SHALL BE PERFORMED BY A REGISTERED LAND SURVEYOR AND REVIEWED BY THE ENGINEER OF RECORD PRIOR TO ACCEPTANCE AND PAYMENT. BENCH MARKS WITH THE ELEVATION CLEARLY AND PERMANENTLY MARKED ARE TO BE PLACED ON THE TOP OF ALL PROPOSED OUTFALL CONTROL STRUCTURES. RECORD DRAWINGS OF ALL MITIGATION AREAS INCLUDING ELEVATIONS, ZONES AND LIMITS SHALL BE PERFORMED BY A REGISTERED LAND SURVEYOR AND REVIEWED BY THE ENGINEER OF RECORD PRIOR TO ACCEPTANCE AND PAYMENT. THE RECORD DRAWINGS SHALL SPECIFICALLY INCLUDE THE SURFACE AREA OF STORMWATER FACILITY AREAS AT NORMAL WATER), TOP OF BANK AND ELEVATION (NWL_{25}), AT HIGH WATER ELEVATION (HWL ALL MITIGATION AND/OR LITTORAL SHELF AREAS.

59. TO PREVENT SEDIMENTARY RUNOFF DURING CONSTRUCTION, STAKED HAY BALES, STAKED SILT SCREENS OR INLET DEBRIS CONTROL SCREENS ARE TO BE PLACED AT STORM INLETS, OUTFALL LOCATIONS AND ADJACENT PROPERTY LINES AS REQUIRED PRIOR TO ANY CONSTRUCTION ACTIVITIES. SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSTALLED AND THEN VERIFIED/INSPECTED BY MANATEE COUNTY INFRASTRUCTURE INSPECTIONS RESOURCES DIVISION (708-7450) PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE SEDIMENTATION BARRIERS IN A WORKING MANNER FOR THE DURATION OF CONSTRUCTION AND SHOULD BE CHECKED DAILY. SILTATION ACCUMULATIONS GREATER THAN THE LESSER OF 12 INCHES OR ONE-HALF OF THE DEPTH OF THE SEDIMENTATION BARRIER SHALL BE IMMEDIATELY REMOVED AND REPLACED IN UPLAND AREAS. IN ADDITION TO SPECIFIED EROSION CONTROL LOCATIONS, THE CONTRACTOR SHALL PERFORM DAILY SITE INSPECTIONS FOR POTENTIAL EROSION PROBLEMS. IF PROBLEMS OCCUR, THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING APPROPRIATE EROSION CONTROL IMMEDIATELY. AN INSPECTION LOG SHALL BE MAINTAINED AND AVAILABLE ONSITE AT ALL TIMES. STORMWATER TREATMENT FACILITIES INCLUDING OUTFALL PER DETAIL ARE TO BE CONSTRUCTED EARLY IN SITE DEVELOPMENT, WITH NO OFF- SITE UNTREATED RUN-OFF OCCURRING DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING TEMPORARY EROSION CONTROL DEVICES FOLLOWING COMPLETION OF ALL CONSTRUCTION AND FINAL STABILIZATION.

60. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STRUCTURES PRIOR TO INSTALLATIONS.

61. THE CONTRACTOR SHALL REVIEW SOILS TESTS AS PERFORMED BY THE SOIL CONSULTANT AND IS ENCOURAGED TO CONDUCT ON-SITE TESTING TO SATISFY HIMSELF AS TO ACTUAL LIMITS OF REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIALS PRIOR TO BIDDING.

62. ON SLOPES GREATER THAN 3:1 PEGGING OR PINNING OF SOD MAY BE REQUIRED.

63. ALL CURB INLET AND JUNCTION BOX STORMWATER STRUCTURES SHALL HAVE HEAVY DUTY RING AND COVER MANHOLE ACCESS. ALL DRAINAGE BOX DETAIL SHALL FOLLOW MANATEE COUNTY CURRENT STANDARD UNLESS IT IS DESIGNATED IN THE PLAN. ALL DRAINAGE BOXES SHALL HAVE A WALL THICKNESS OF 6" MINIMUM.

64. DURING DEWATERING OPERATIONS, THE CONTRACTOR SHALL NOT DISCHARGE DIRECTLY TO RECEIVING WATERS, EXISTING CONVEYANCES TO RECEIVING WATERS, OR WETLAND SYSTEMS. TEMPORARY SEDIMENT BASINS, TRAPS, OR SILTATION REDUCTION DEVICES SHALL BE UTILIZED TO COLLECT THE DISCHARGE FROM DEWATERING ACTIVITIES TO ELIMINATE THE POTENTIAL FOR OFFSITE SEDIMENT TRANSPORT AND TO ENSURE THAT DIRECT DISCHARGE DOES NOT OCCUR.

RESTORATION

65. ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES UNLESS SHOWN OTHERWISE.

66. ALL DISTURBED GRASSED AREAS SHALL BE SODDED. THE TYPE OF SOD USED TO REPLACE OWNER MAINTAINED AREAS IN RIGHT-OF-WAY SHALL BE COORDINATED WITH THE PROPERTY OWNER. ALL EXISTING SHRUBS, TREES, PLANTINGS AND OTHER VEGETATION, OUTSIDE OF RIGHT-OF-WAY DISTURBED DURING CONSTRUCTION SHALL BE REPLACED WITH EQUIVALENT MATERIAL BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

67. RESTORATION OF CURBS, DRIVEWAYS, SIDEWALKS, AND PLACEMENT OF SOD SHALL BE COMPLETED WITHIN FORTY-FIVE CALENDAR DAYS OF INITIAL DISTURBANCE, OR TWENTY-ONE CALENDAR DAYS OF SUBSTANTIAL COMPLETION, WHICHEVER OCCURS FIRST.

CONSTRUCTION

68. THE EXHAUST SYSTEM OF ALL GASOLINE AND DIESEL ENGINES SHALL BE EQUIPPED WITH MUFFLERS THAT MEET THE EQUIPMENT MANUFACTURER'S REQUIREMENTS FOR NOISE SUPPRESSION. THE CONTRACTOR SHALL INSTALL NOISE ABATEMENT BAFFELS POSITIONED TO BREAK LINE-OF-SITE FROM THE NOISE SOURCE TO AFFECTED RESIDENCES, AS APPROVED BY THE ENGINEER.

69. NO MATERIAL SHALL BE STOCKPILED IN ROADWAYS. ALL DIRT AND DEBRIS SHALL BE REMOVED FROM THE JOB SITE DAILY. ROADS SHALL BE SWEPT DAILY AS PART OF DAILY CLEAN UP.

70. THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS REQUIRED.

71. INGRESS AND EGRESS TO ALL THE PROPERTIES IN THE CONSTRUCTION AREA SHALL BE MAINTAINED AT ALL TIMES.

72. PRIOR APPROVAL WILL BE REQUIRED FOR REMOVAL OF ANY TREE WITHIN THE CONSTRUCTION AREA, UNLESS OTHERWISE NOTED ON THE PLANS.

73. THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP ALL EXCAVATIONS DRY. DEWATERING IS REQUIRED TO 18" BELOW TRENCH BOTTOM. THE CONTRACTOR SHALL SUBMIT DEWATERING PLAN TO DISTRICT FOR APPROVAL PRIOR TO CONSTRUCTION.

74. ALL PIPING AND FITTINGS USED ON THIS PROJECT SHALL BE AS NOTED ON THE PLANS AND IN THE CONTRACT DOCUMENT AND SHALL BE INSTALLED TO THE LINES AND GRADES SHOWN ON THE PLANS AND PROFILES.

75. ALL ROCKS OR STONES LARGER THAN SIX INCH DIAMETER SHALL BE REMOVED FROM THE BACKFILL MATERIAL. BACKFILL MATERIAL PLACED WITHIN ONE FOOT OF PIPING AND APPURTENANCES SHALL NOT CONTAIN ANY STONES LARGER THAN TWO INCH DIAMETER.

76. ALL PENETRATION OF EXISTING STRUCTURES SHALL BE BY THE MECHANICAL ROTARY CORE BORING METHOD.

77. ALL CONCRETE AND REBAR PENETRATED OR DISTURBED SHALL BE COATED WITH TWO COATS OF EPOXY.

78. CONTRACTOR IS RESPONSIBLE FOR ALL UNSUITABLE MATERIAL REMOVAL WITHIN PROJECT LIMITS. EXCAVATION, EMBANKMENT, INCLUDING UTILIZATION, AND UNSUITABLE MATERIAL REMOVAL SHALL BE IN ACCORDANCE WITH FDOT DESIGN STANDARDS LATEST VERSION.

79. WHERE EXCAVATION IS REQUIRED FOR CONSTRUCTION OF SIDEWALK, ALL STUMPS, ROOTS, ETC. SHALL BE REMOVED COMPLETELY FROM THE SIDEWALK AREA. ALL STUMPS WITHIN THE PROJECT LIMITS SHALL BE REMOVED COMPLETELY AND REPLACED WITH COMPACTED BACKFILL BEFORE THE AREA IS FILLED. TREE ROOTS IN AREA OF PROPOSED SIDEWALK, RAMP, OR DRIVEWAY REPLACEMENT SHALL BE GROUND OUT TO A DEPTH OF 6" BELOW BOTTOM OF NEW SIDEWALK OR DRIVEWAY. ALL PRUNED ROOT DEBRIS SHALL BE REMOVED FROM THE SUB-BASE MATERIAL PRIOR TO POURING CONCRETE, ASPHALT, OR APPLICATION OF OTHER SPECIFIED MATERIALS. THIS WORK SHALL BE INCLUDED IN AND PAID FOR UNDER THE PAY ITEM FOR CLEARING AND GRUBBING.

80. ALL STUMPS, ROOTS, AND OTHER DEBRIS PROJECTING THROUGH OR APPEARING ON THE SURFACE OF THE GROUND SHALL BE REMOVED TO A DEPTH OF 1-FOOT BELOW THE COMPLETED SURFACE. THIS WORK SHALL BE INCLUDED IN AND PAID FOR UNDER THE PAY ITEM FOR CLEARING AND GRUBBING.

81. ALL MATERIALS NOT CLAIMED BY THE COUNTY SHALL BECOME PROPERTY OF THE CONTRACTOR, AND SHALL BE DISPOSED OF BY THE CONTRACTOR IN AREAS PROVIDED BY THE CONTRACTOR. THIS WORK SHALL BE INCLUDED IN AND PAID UNDER THE PAY ITEM CLEARING AND GRUBBING.

82. THE CONTRACTOR SHALL PROVIDE ALL SHEETING, SHORING, AND BRACING REQUIRED TO PROTECT ADJACENT STRUCTURES OR TO MINIMIZE TRENCH WIDTH. WHERE A SEPARATE PAY ITEM IS NOT PROVIDED, THE COST OF ALL SHEETING, SHORING, AND BRACING REQUIRED SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE ITEM OF WORK FOR WHICH SHEETING, SHORING, AND BRACING IS REQUIRED.

83. THE CONTRACTOR SHALL DISTURB NO MORE GROUND THAN WHAT IS NECESSARY FOR CONSTRUCTION. NO OPEN EXCAVATED TRENCH, OR OTHER UNSAFE CONDITION WILL BE LEFT OVERNIGHT. ALL WORK SITES WILL BE COMPLETELY RESTORED WITHIN SEVEN (7) CALENDAR DAYS OF THE CONCRETE POUR FOR SIDEWALK. THE INTENT OF THIS PROVISION IS TO "SAFE-UP" THE PROJECT SITE AS WORK PROGRESSES, AND SHALL INCLUDE REMOVING FORMS, FILLING HOLES, GRADING, AND REMOVAL OF DEBRIS.

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GENERAL NOTES

SHEET NUMBER 30

84. ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED IN THE PLANS, OR AS DIRECTED BY THE ENGINEER.

85. ANY EXISTING SIGN TO REMAIN THAT IS DISTURBED OR RELOCATED DURING CONSTRUCTION SHALL BE RESET TO CURRENT STANDARDS FOR HEIGHT, OFFSET, AND METHOD OF INSTALLATION AT NO ADDITIONAL COST TO THE COUNTY.

86. ALL EXISTING SWALES NOT DESIGNATED FOR RECONSTRUCTION SHALL BE REGRADED TO PROMOTE POSITIVE DRAINAGE AND MATCH PROPOSED CENTERLINE SWALE ELEVATION AND ALIGNMENT.

87. ALL STORM DRAINS AND STRUCTURES TO REMAIN SHALL BE CLEANED OF DEBRIS, DIRT, VEGETATION AND OTHER MATERIAL. STORM SEWER INLETS SHALL BE MODIFIED (RAISED/LOWERED) TO MATCH PROPOSED FINISHED GRADE. ANY EXISTING PIPES DRAINING TO THE RIGHT OF WAY CALLED OUT TO BE MODIFIED BY THE PLANS SHALL BE INCLUDED IN THE COST OF CLEARING AND GRUBBING.

88. ALL EXISTING FENCES DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AND REINSTALLED BY THE CONTRACTOR AT NO ADDITIONAL COST. (EXISTING FENCES WITHIN R/W TAKING LIMITS SHALL BE RECONSTRUCTED TO THE NEW R/W LINE AND ARE TO BE REIMBURSED UNDER THE MISCELLANEOUS BID ITEM).

89. ALL EXISTING TREES LOCATED WITHIN R/W LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED.

90. ALL EXISTING BUILDINGS SHALL REMAIN UNLESS OTHERWISE NOTED.

91. ALL IMPACTED PROPERTY CORNERS AND MARKERS TO BE RESET.

MITIGATION NOTES

92. MAINTENANCE SHALL BE IN ACCORDANCE WITH PERMIT CONDITIONS. WETLAND BOUNDARY AND BUFFER AREAS SHALL BE CLEARLY DELINEATED ON SITE PRIOR TO INITIAL CLEARING AND GRUBBING ACTIVITIES. THE DELINEATION SHALL ENDURE THROUGHOUT THE CONSTRUCTION PERIOD, AND BE READILY DISCERNIBLE TO CONSTRUCTION PERSONNEL. THE WETLAND (JURISDICTIONAL) AND BUFFER AREAS ARE TO BE IDENTIFIED IN THE FIELD WITH STAKES AND FLAGGED STRING LINES (STRING LINE 5' ABOVE GRADE WITH FLAGGING AT 10' INTERVALS) PRIOR TO COMMENCEMENT OF CLEARING AND GRUBBING. THE STRING LINE SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL STAY OUT OF THE EXISTING WETLAND AND BUFFER AREAS, EXCEPT WHERE PLANS CALL OUT SPECIFIC WORK TO BE PERFORMED.

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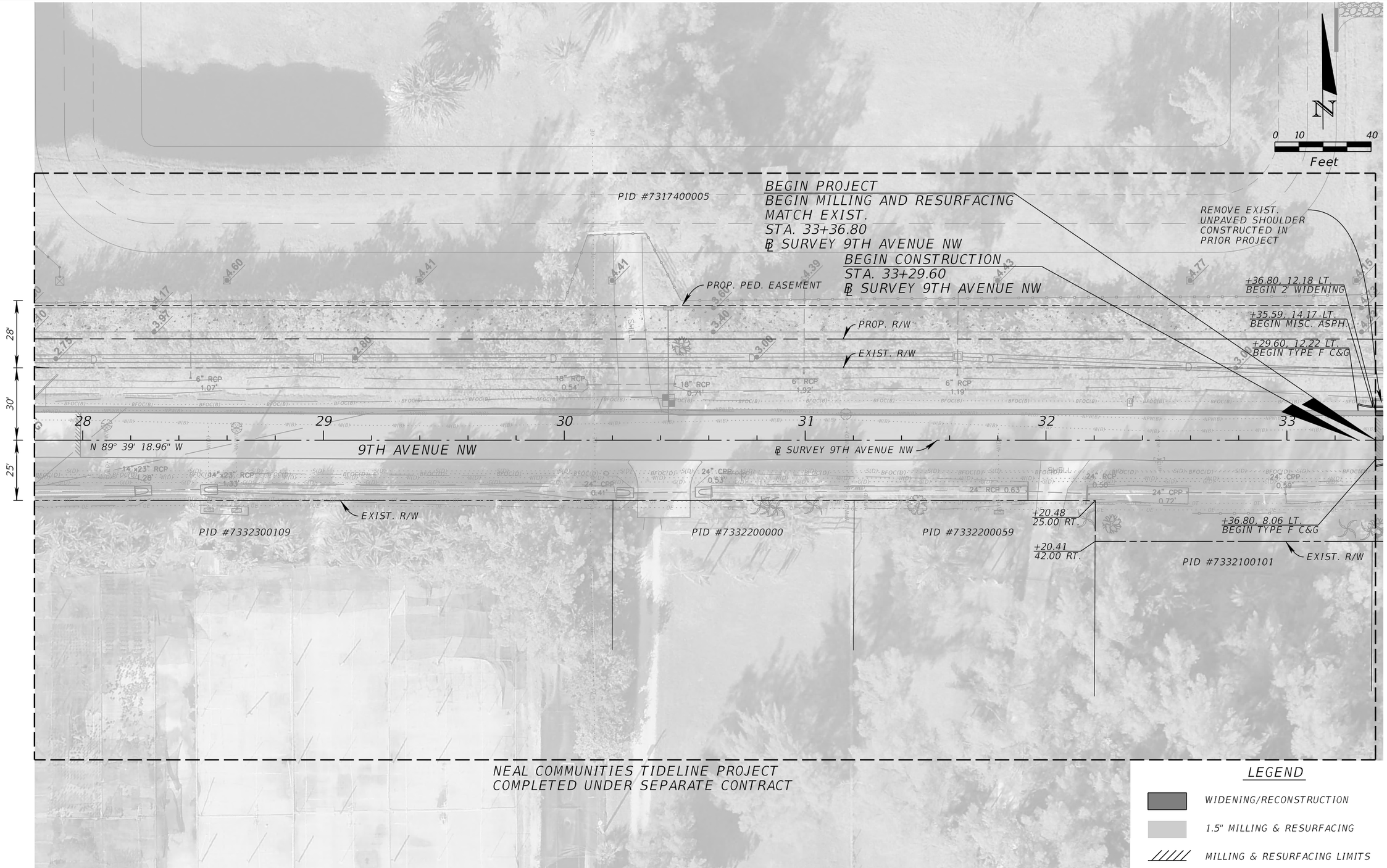
Manatee County FLORIDA
9TH AVENUE NW
MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

GENERAL NOTES

SHEET NUMBER
31



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PHONE: 941-379-7600
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KHA PROJECT 148400070
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Manatee County FLORIDA

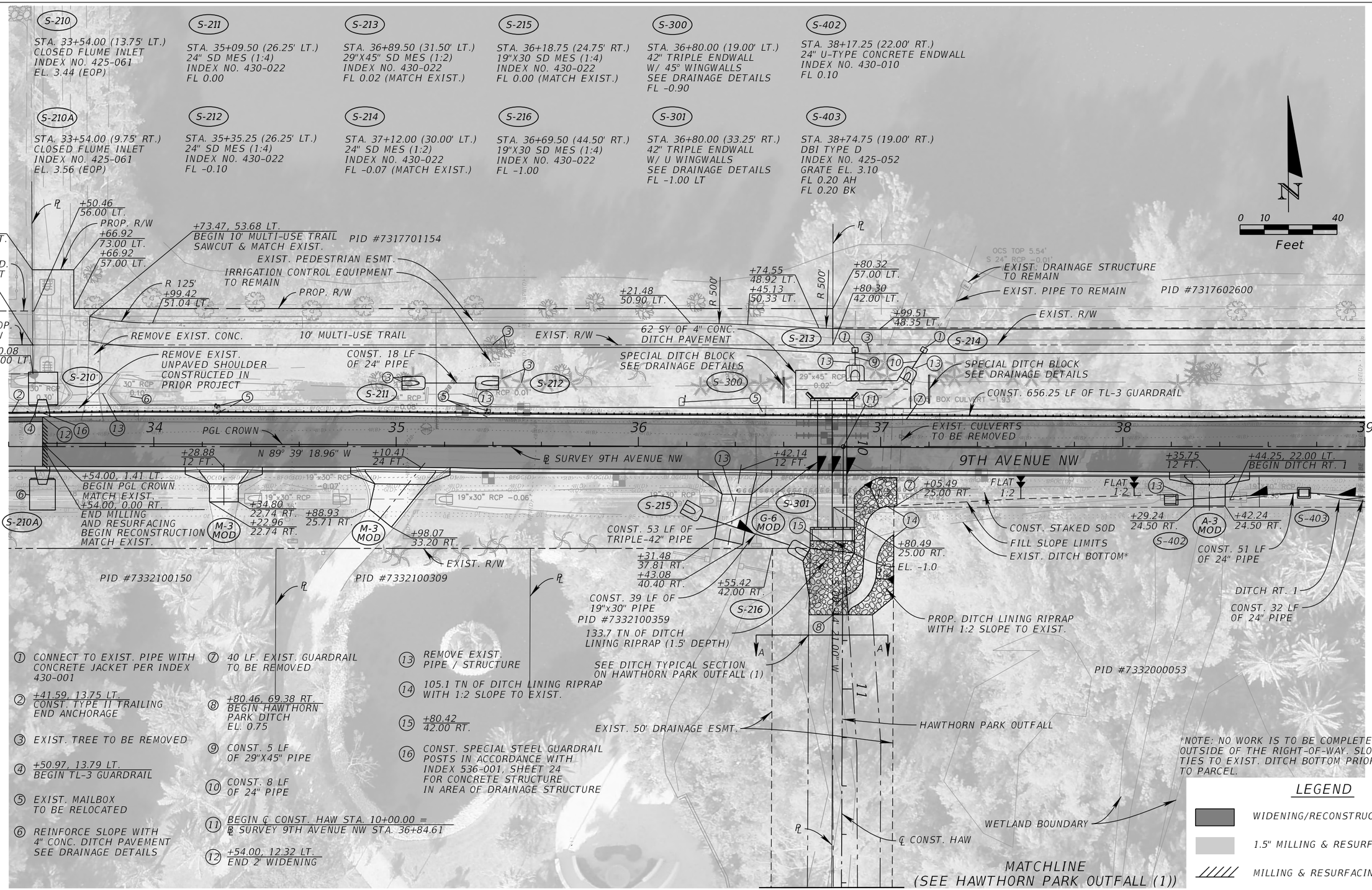
9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

PLAN SHEET (1)

SHEET NUMBER 32



1. CONNECT TO EXIST. PIPE WITH CONCRETE JACKET PER INDEX 430-001
2. +41.59, 13.75 LT. CONST. TYPE II TRAILING END ANCHORAGE
3. EXIST. TREE TO BE REMOVED
4. +50.97, 13.79 LT. BEGIN TL-3 GUARDRAIL
5. EXIST. MAILBOX TO BE RELOCATED
6. REINFORCE SLOPE WITH 4" CONC. DITCH PAVEMENT SEE DRAINAGE DETAILS
7. 40 LF. EXIST. GUARDRAIL TO BE REMOVED
8. +80.46, 69.38 RT. BEGIN HAWTHORN PARK DITCH EL. 0.75
9. CONST. 5 LF OF 29"X45" PIPE
10. CONST. 8 LF OF 24" PIPE
11. BEGIN ℄ CONST. HAW STA. 10+00.00 = ℄ SURVEY 9TH AVENUE NW STA. 36+84.61
12. +54.00, 12.32 LT. END 2' WIDENING
13. REMOVE EXIST. PIPE / STRUCTURE
14. 105.1 TN OF DITCH LINING RIPRAP WITH 1:2 SLOPE TO EXIST.
15. +80.42 42.00 RT.
16. CONST. SPECIAL STEEL GUARDRAIL POSTS IN ACCORDANCE WITH INDEX 536-001, SHEET 24 FOR CONCRETE STRUCTURE IN AREA OF DRAINAGE STRUCTURE

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9TH AVENUE NW

MANATEE COUNTY FL

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JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

PLAN SHEET (2)

SHEET NUMBER 33

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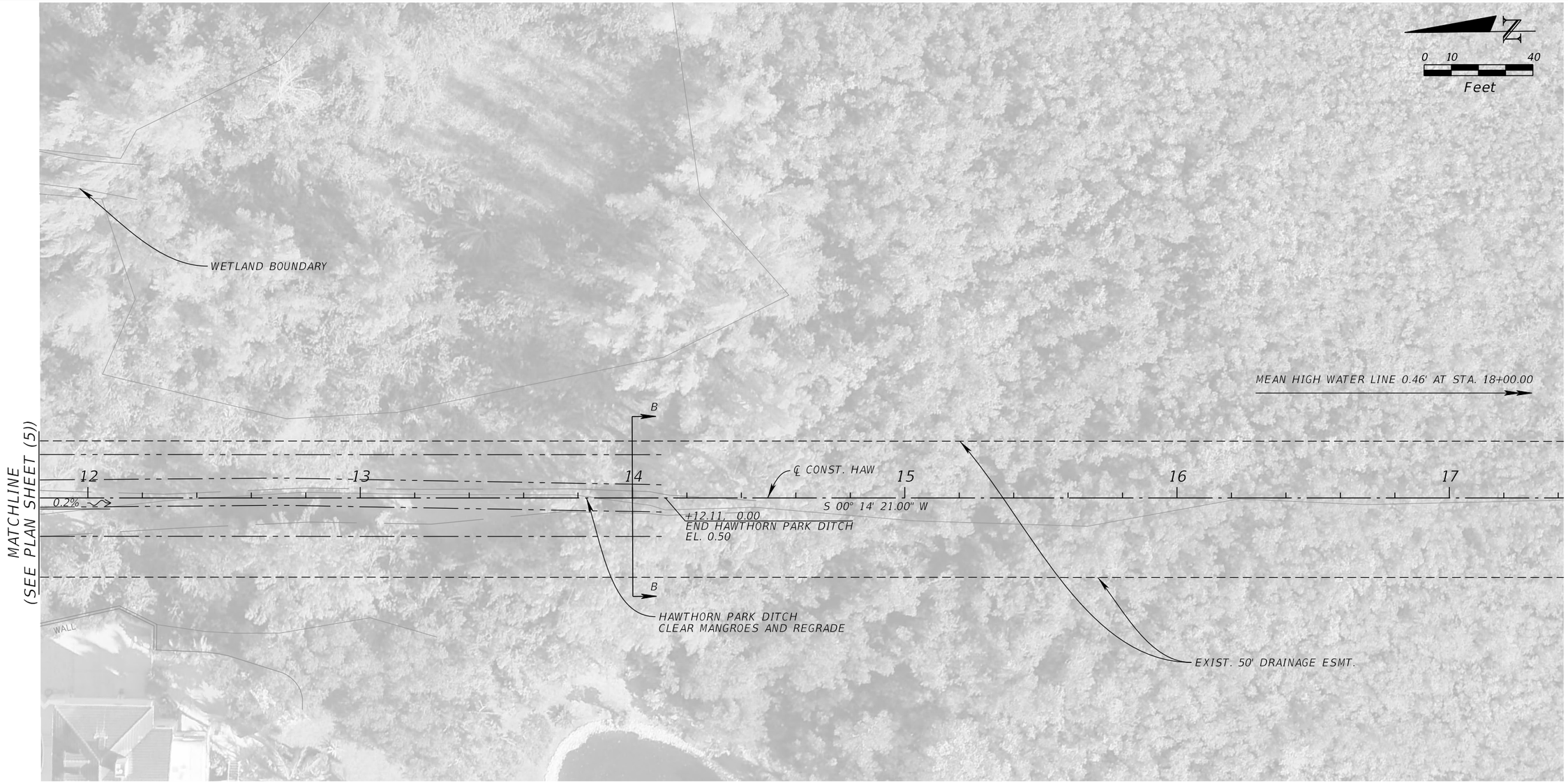
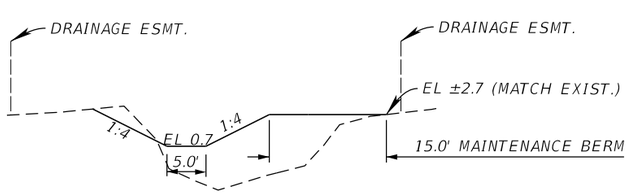
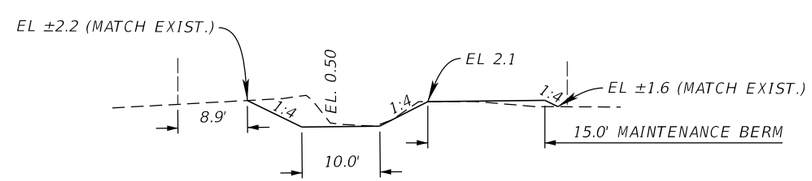




TYPICAL SECTION A-A (STA 10+75.00)
NTS



TYPICAL SECTION B-B (STA 14+00.00)
NTS

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MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

HAWTHORN PARK OUTFALL (1)

SHEET NUMBER
34

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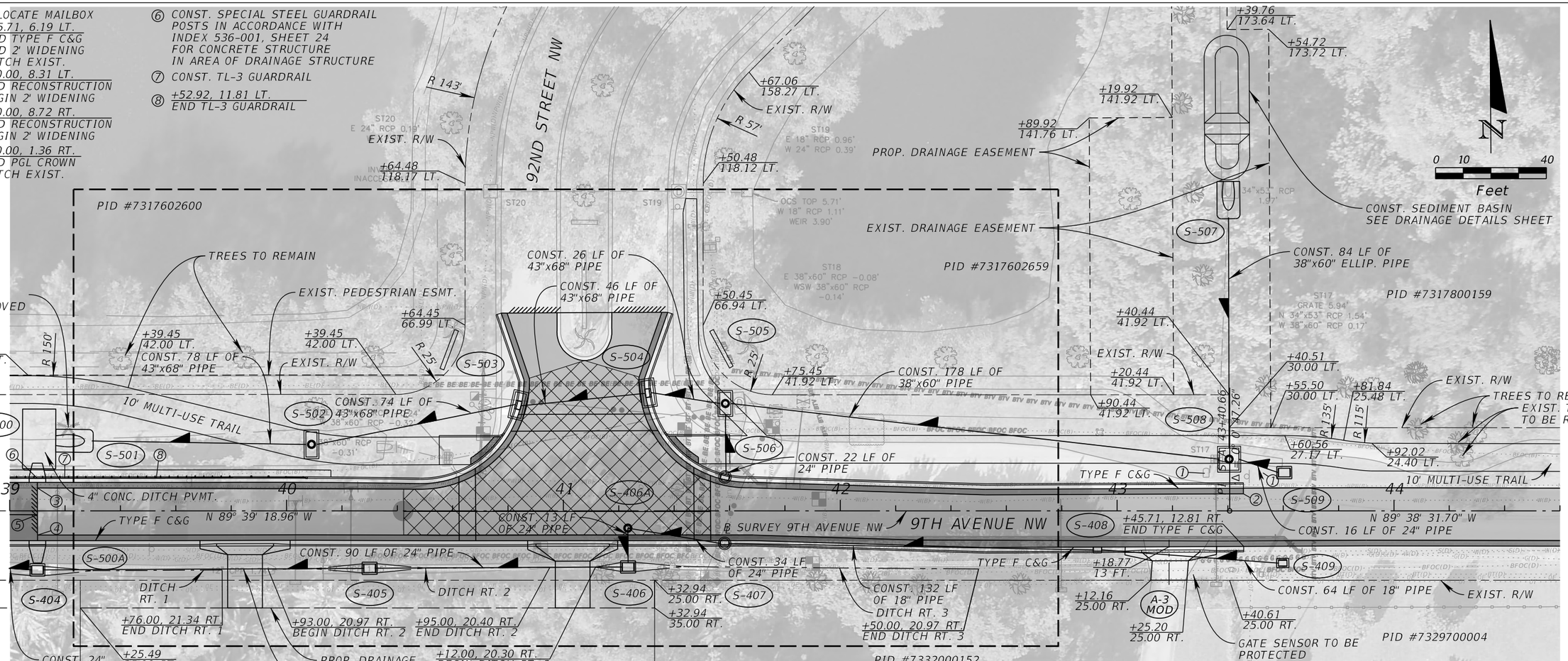
① RELOCATE MAILBOX
② +45.71, 6.19 LT. END TYPE F C&G END 2' WIDENING MATCH EXIST.
③ +10.00, 8.31 LT. END RECONSTRUCTION BEGIN 2' WIDENING
④ +10.00, 8.72 RT. END RECONSTRUCTION BEGIN 2' WIDENING
⑤ +10.00, 1.36 RT. END PGL CROWN MATCH EXIST.
⑥ CONST. SPECIAL STEEL GUARDRAIL POSTS IN ACCORDANCE WITH INDEX 536-001, SHEET 24 FOR CONCRETE STRUCTURE IN AREA OF DRAINAGE STRUCTURE
⑦ CONST. TL-3 GUARDRAIL
⑧ +52.92, 11.81 LT. END TL-3 GUARDRAIL



S-404
STA. 39+10.00 (21.25' RT.)
DBI TYPE D
INDEX NO. 425-052
GRATE EL. 3.10
FL 0.30 AH
FL 0.30 BK

S-406A
STA. 41+23.25 (6.25' RT.)
MANHOLE TYPE P-7
INDEX NO. 425-001
RIM EL. 5.32
FL 1.00 BK
FL 1.00 RT

S-506
STA. 41+58.25 (12.25' LT.)
CURB INLET TYPE P-9
INDEX NO. 425-024
EL. 5.23 (EOP)
FL 1.30 LT

S-509
STA. 43+60.50 (13.75' LT.)
DBI TYPE D
INDEX NO. 425-052
GRATE EL. 6.20
FL 1.40 BK

S-405
STA. 40+30.00 (20.75' RT.)
DBI TYPE D
INDEX NO. 425-052
GRATE EL. 3.90
E SLOT EL. 3.2
FL 0.50 AH
FL 0.50 BK

S-407
STA. 41+58.25 (11.75' RT.)
CURB INLET TYPE P-9
INDEX NO. 425-024
EL. 5.09 (EOP)
FL 1.10 AH
FL 1.10 BK

S-409
STA. 43+59.75 (18.75' RT.)
DBI TYPE C
INDEX NO. 425-052
GRATE EL. 6.30
FL 1.80 BK

S-500A
STA. 39+10.00 (12.25' RT.)
CLOSED FLUME INLET
INDEX NO. 425-061
EL. 3.37 (EOP)

S-502
STA. 40+09.00 (24.00' LT.)
MANHOLE TYPE J-7 (4'x9')
INDEX NO. 425-001
RIM EL. 5.48
FL -1.70 AH
FL -1.70 BK

S-504
STA. 41+30.50 (42.50' LT.)
CURB INLET TYPE J-9 (4'x9')
INDEX NO. 425-024
EL. 5.05 (EOP)
FL -1.40 AH
FL -1.40 BK

S-507
STA. 43+40.25 (108.50' LT.)
38"x60" SD MES (1:4)
INDEX NO. 430-022
FL 2.00

S-406
STA. 41+23.25 (20.25' RT.)
DBI TYPE D
INDEX NO. 425-052
GRATE EL. 4.40
E SLOT EL. 3.90
FL 0.90 LT
FL 0.90 BK

S-408
STA. 42+93.00 (14.00' RT.)
CURB INLET TYPE P-9
INDEX NO. 425-024
EL. 6.02 (EOP)
FL 1.50 AH
FL 1.50 BK

S-500
STA. 39+10.00 (11.75' LT.)
CLOSED FLUME INLET
INDEX NO. 425-061
EL. 3.32 (EOP)

S-501
STA. 39+27.00 (25.25' LT.)
43"x68" SD MES (1:4)
INDEX NO. 430-022
FL -0.50

S-503
STA. 40+83.75 (38.25' LT.)
CURB INLET TYPE J-9 (4'x9')
INDEX NO. 425-024
EL. 4.90 (EOP)
FL -1.60 AH
FL -1.60 BK

S-505
STA. 41+58.50 (38.75' LT.)
MANHOLE TYPE J-7 (4'x8')
INDEX NO. 425-001
RIM EL. 5.97
FL 0.50 AH
FL -1.00 BK
FL 1.20 RT

S-508
STA. 43+40.50 (18.75' LT.)
MANHOLE TYPE J-7 (7'x8')
INDEX NO. 425-001
RIM EL. 7.06
FL 1.30 AH
FL 0.70 LT
FL 0.60 BK

LEGEND

- WIDENING/RECONSTRUCTION
- 1.5" MILLING & RESURFACING
- MILLING & RESURFACING LIMITS
- DETECTABLE WARNINGS
- OVERBUILD AND CROWN CORRECTION

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No.	REVISIONS	DATE	BY

Kimley»Horn

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Manatee County FLORIDA

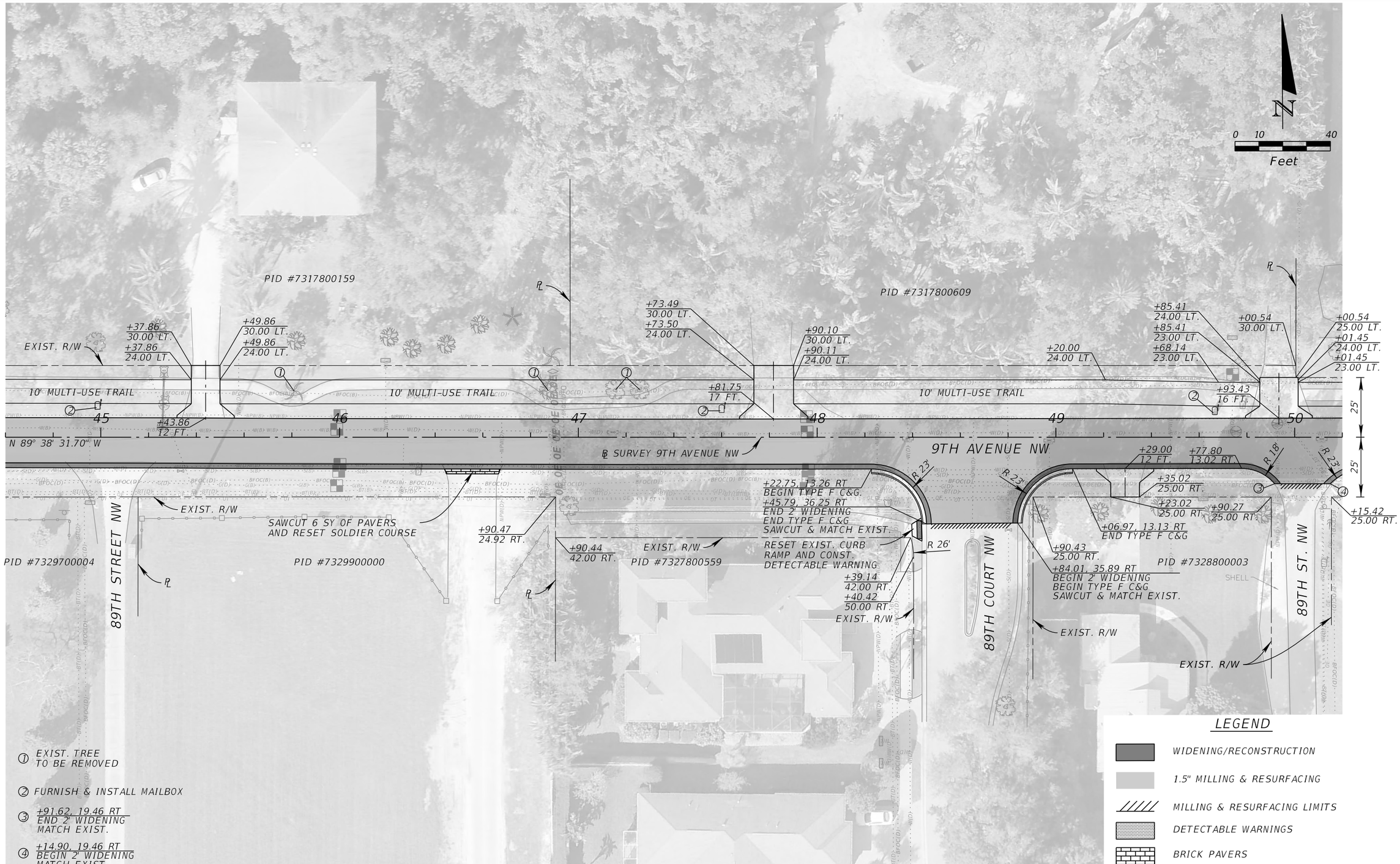
9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

PLAN SHEET (3)

SHEET NUMBER 35



① EXIST. TREE TO BE REMOVED

② FURNISH & INSTALL MAILBOX

③ +91.62, 19.46 RT
END 2' WIDENING
MATCH EXIST.

④ +14.90, 19.46 RT
BEGIN 2' WIDENING
MATCH EXIST.

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9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

PLAN SHEET (4)

SHEET NUMBER 36

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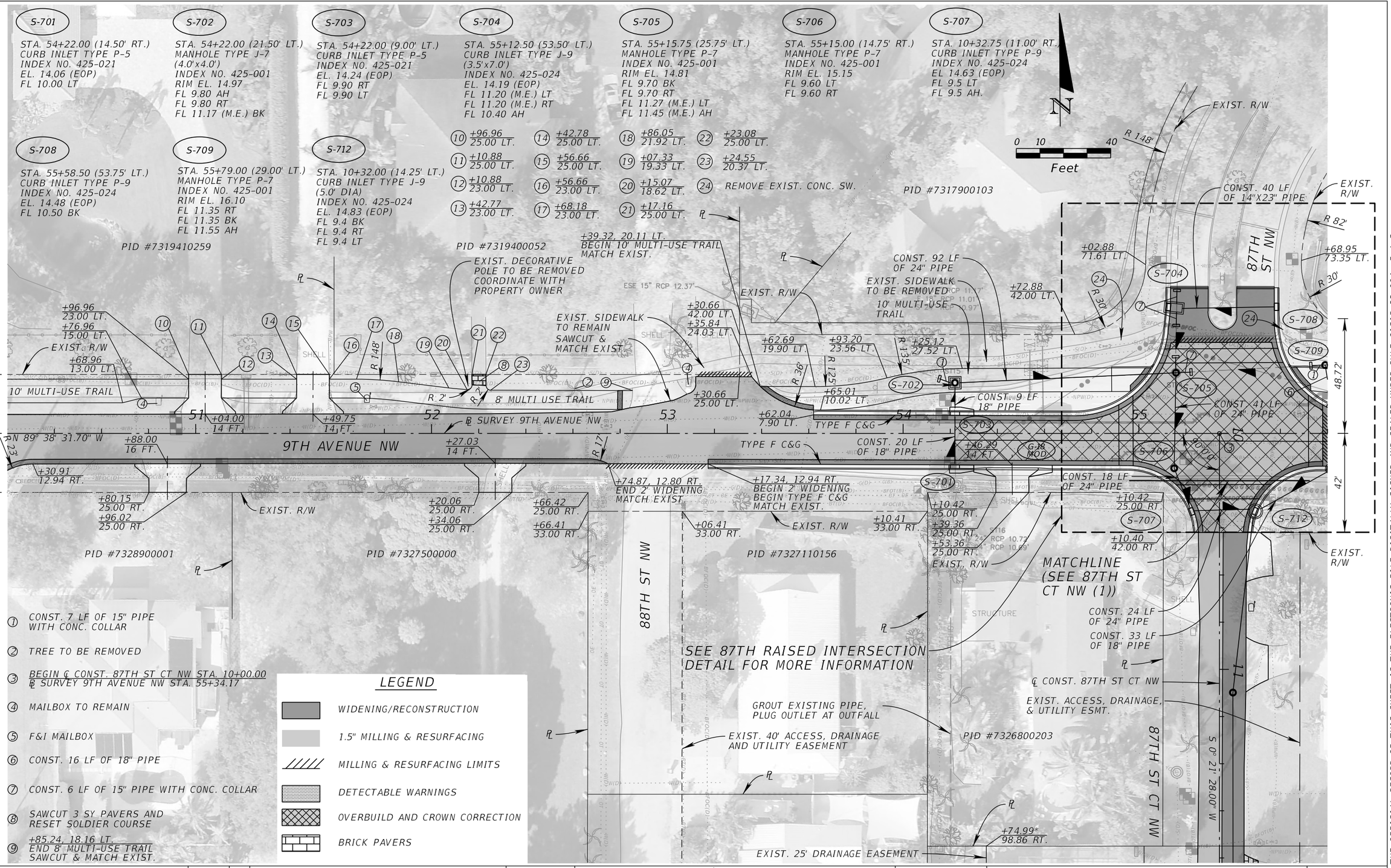

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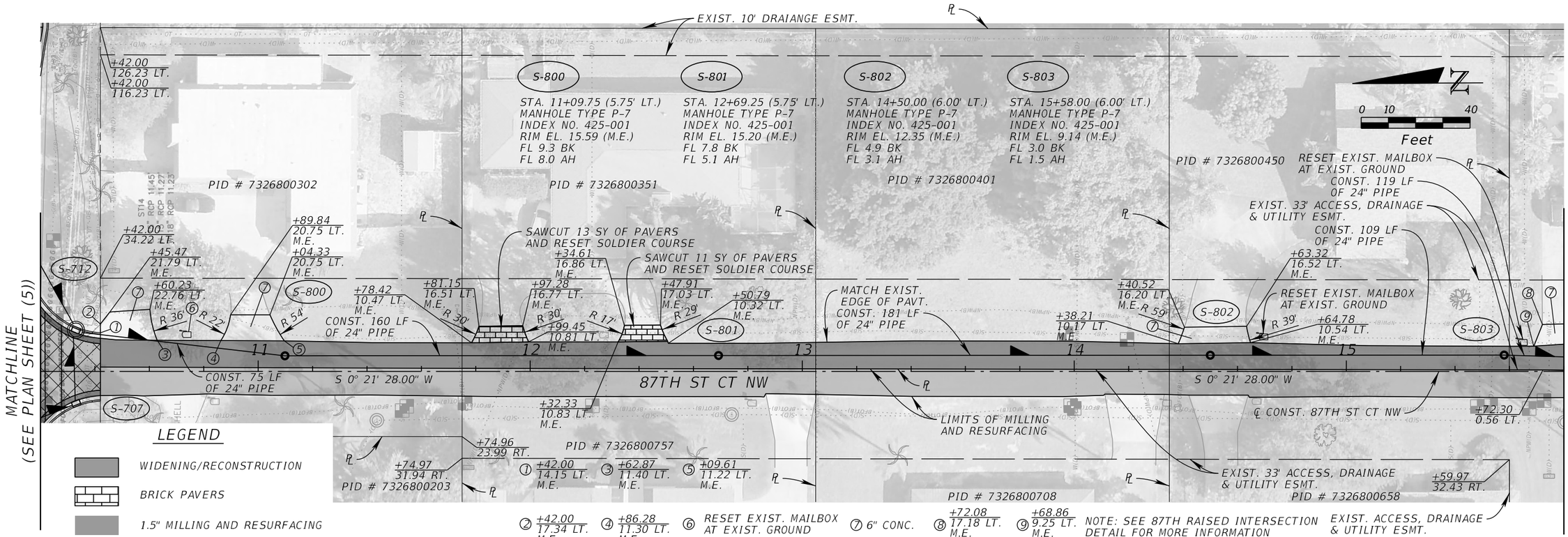
PLAN SHEET (5)

SHEET NUMBER 37



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JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

87TH ST CT NW (1)

SHEET NUMBER
38

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

EXIST. 10' DRAIANGE ESMT.
+85.24 115.41 LT.
+05.47 115.39 LT.
PID # 7326800500
EXIST. 20' DRAINAGE ESMT.
+95.48 82.92 LT.
+00.95 85.61 LT.
+78.23 69.22 LT.
EXIST. 33' ACCESS, DRAINAGE & UTILITY ESMT.
+65.01 46.87 LT.
R 66'
R 20'
+93.98 17.87 LT. M.E.
+46.11 33.46 LT.
EXIST. 12" PIPE
+08.76 9.84 LT.
+97.05 10.64 LT. M.E.
CONST. 24" PIPE
MATCHLINE (SEE 87TH ST CT NW (1))
16
17
18
19
20
21
EXIST. CURB TO REMAIN
+32.79 20.26 LT.
+59.50 17.44 LT.
S-804
S-806
S-805
EXIST. ACCESS, DRAINAGE & UTILITY ESMT.
R 66'
R 13'
+71.73 2.44 RT.
CONST. 30 LF OF 24" PIPE
+03.60 16.34 RT.
CONST. 24 LF OF 24" PIPE
+98.92 19.48 RT.
PID # 7326800153
EXIST. 20' ACCESS, DRAINAGE & UTILITY ESMT.
LIMITS OF MILLING AND RESURFACING
+54.21 2.06 LT.
+49.00 19.67 RT.
+46.20 38.13 RT.
EXIST. ACCESS, DRAINAGE & UTILITY ESMT.
R 66'
+86.20 4.71 RT.
PID # 7326800559
EXIST. 10' DRAINAGE ESMT.
+26.21 124.98 LT.
+26.20 114.98 LT.

S-804
STA. 16+78.25 (2.50' LT.)
MANHOLE TYPE P-7
(4.0' DIA.)
INDEX NO. 425-001
RIM EL. 8.16 (M.E.)
FL 1.4 BK
FL 1.3 AH

S-805
STA. 17+11.25 (2.00' RT.)
MANHOLE TYPE P-7 (CIP)
(4.0' DIA.)
INDEX NO. 425-001
RIM EL. 7.98 (M.E.)
FL 1.2 BK
FL 1.1 AH

S-806
STA. 17+36.75 (6.25' LT.)
MANHOLE TYPE P-7
(4.0' DIA.)
INDEX NO. 425-001
RIM EL. 8.01 (M.E.)
FL 1.0 BK
FL 0.9 AH

S-807
STA. 20+07.50 (7.75' LT.)
STRAIGHT CONCRETE ENDWALL
INDEX NO. 430-030
FL 0.50 BK

SAWCUT AND MATCH EXIST.
+28.81 12.73 LT.
+86.84 12.82 LT.
+92.59 15.28 LT.
+90.27 5.28 LT.
R 34'
+56.45 29.23 LT.
+82.15 29.20 LT.
R 22'
R 20'
R 19'
+42.32 15.21 LT.
+95.94 15.15 LT.
PROP. PROPERTY OWNER LICENSE AGREEMENT
PROP. 10' DRAINAGE ESMT.
EXIST. 10' DRAINAGE ESMT.
CONST. 269 LF OF 19" X 30" PIPE
87TH ST CT NW
6" CONCRETE MATCH EXIST. GRADES
+02.05, 2.43 LT.
BEGIN TYPE A MIAMI C&G
TYPE A MIAMI C&G
CONTRACTOR TO GRADE TOWARDS INLET
+13.26, 0.20 RT.
END TYPE A MIAMI C&G
S 0° 21' 28.00" W
S-807
28'*
PID # 7326800609
*CONTRACTOR TO ADD ADDITIONAL FILL ABOVE PIPE TO ENSURE 1' OF COVER
NOTE: CONTRACTOR TO REPLACE PROPERTYOWNER'S IRRIGATION LINES DAMAGED DURING CONSTRUCTION OF PIPE FROM S-806 TO S-807
EXIST. PALM TREE TO BE REMOVED
+12.06 15.00 LT.
+12.04 5.00 LT.
MHW LINE 0.46'
+12.03 5.00 RT.
SAWCUT & MATCH EXIST. HORIZONTAL LOCATION OF WALL
℄ CONST. 87TH ST CT NW

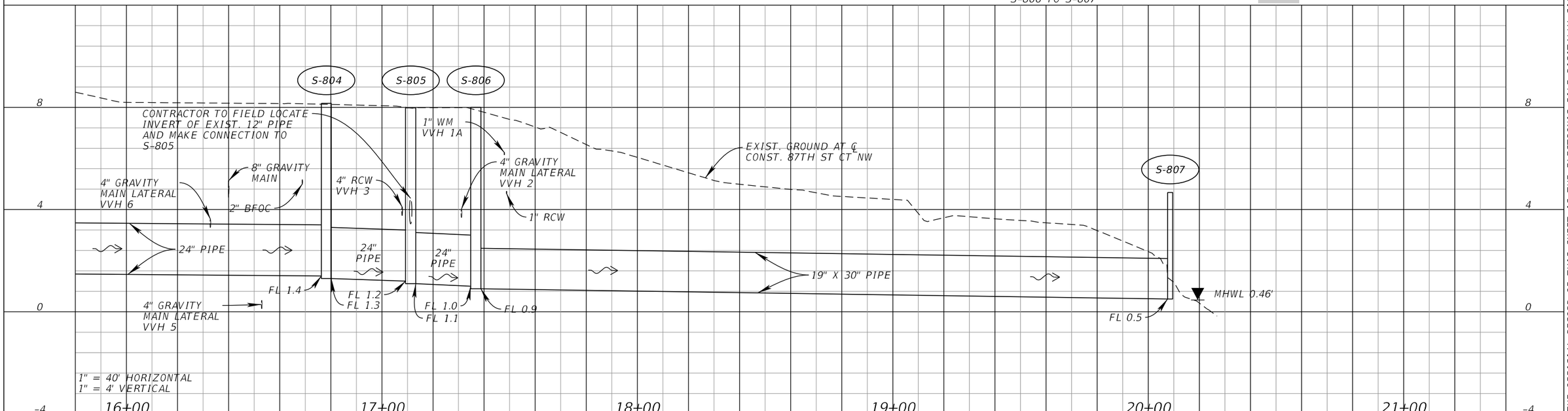
① +73.99 18.59 LT.
② +02.50 13.93 LT.
③ MATCH EXIST. EDGE OF PAVT.
④ CONTRACTOR TO FIELD VERIFY LOCATION AND ELEVATION OF 12" PIPE AND CONNECT TO S-805

0 10 40
Feet

LEGEND

WIDENING/RECONSTRUCTION

1.5" MILLING AND RESURFACING



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MANATEE COUNTY FL

LICENSED PROFESSIONAL
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FL LICENSE NUMBER 76102
DATE:

87TH ST CT NW (2)

SHEET NUMBER
39

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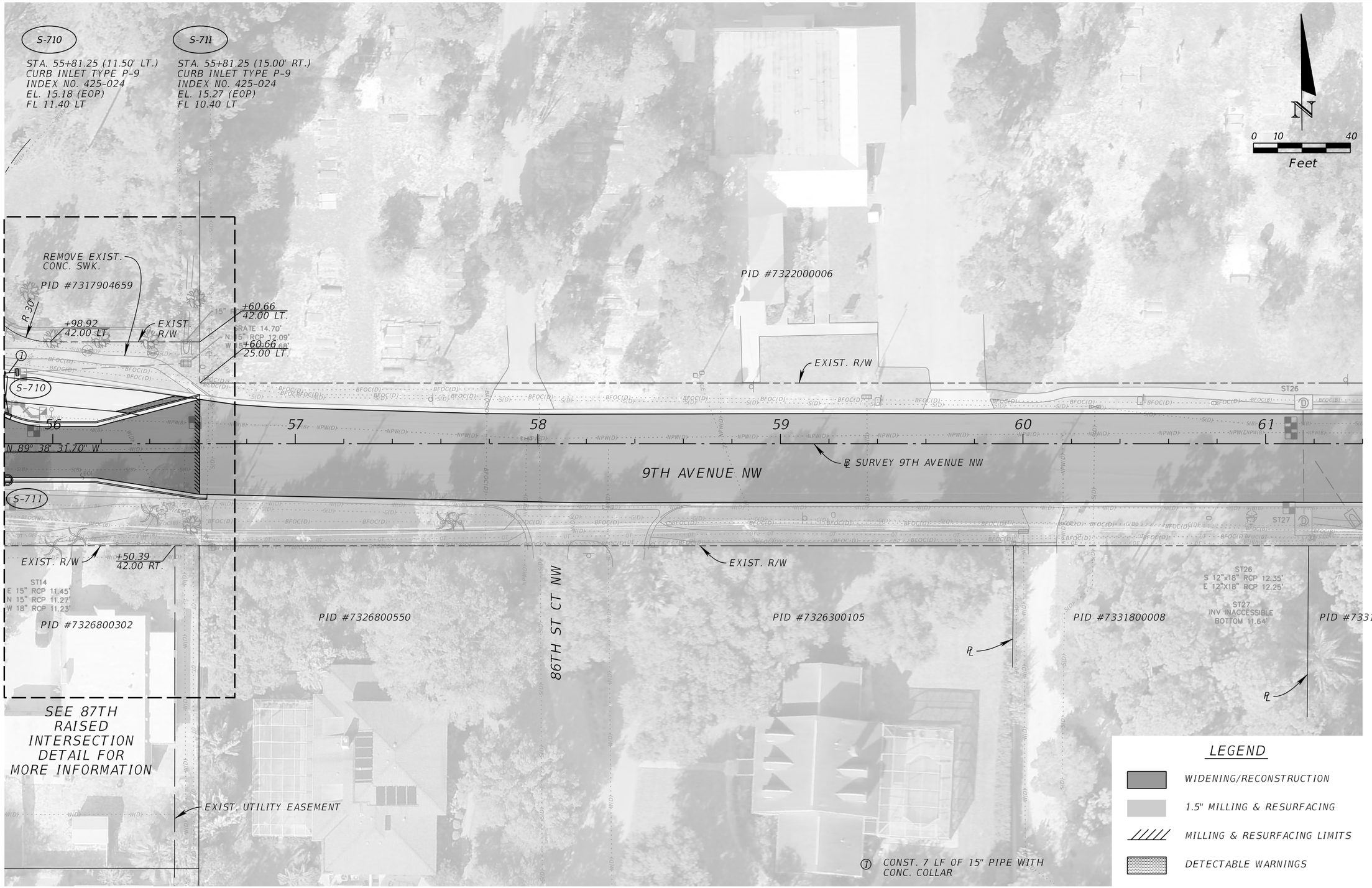

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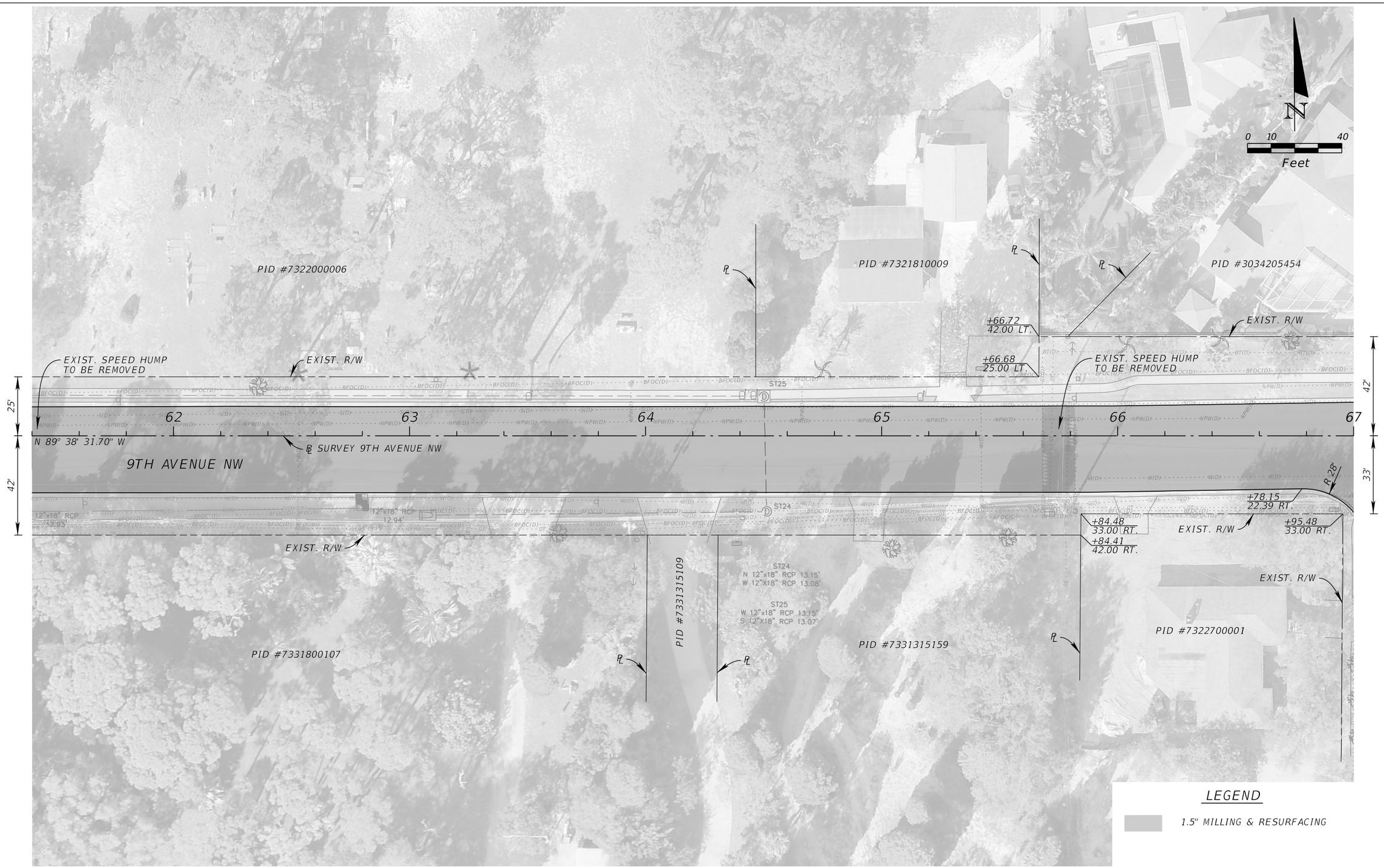
PLAN SHEET (6)

SHEET NUMBER 40



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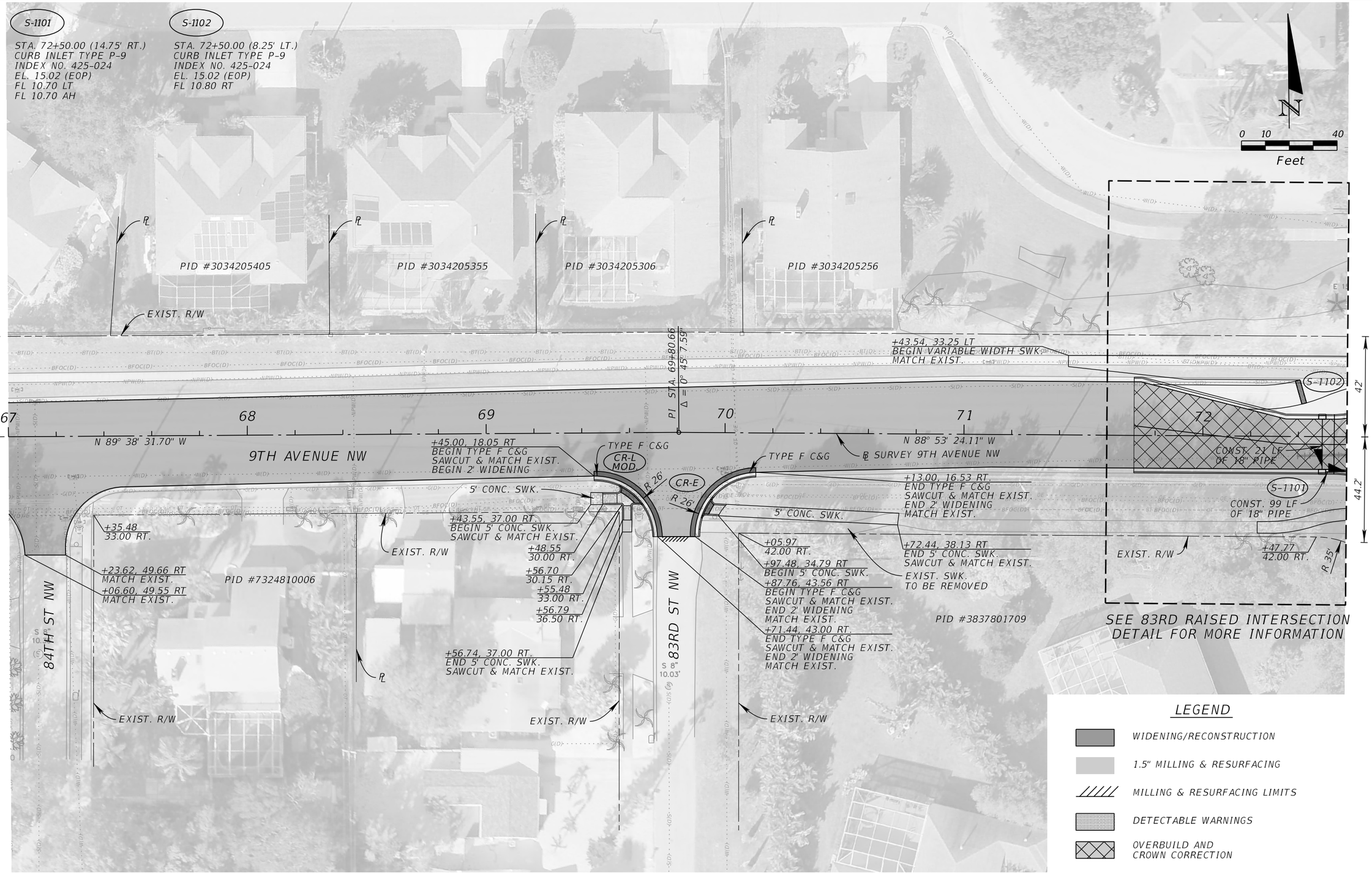
PLAN SHEET (7)

SHEET NUMBER 41



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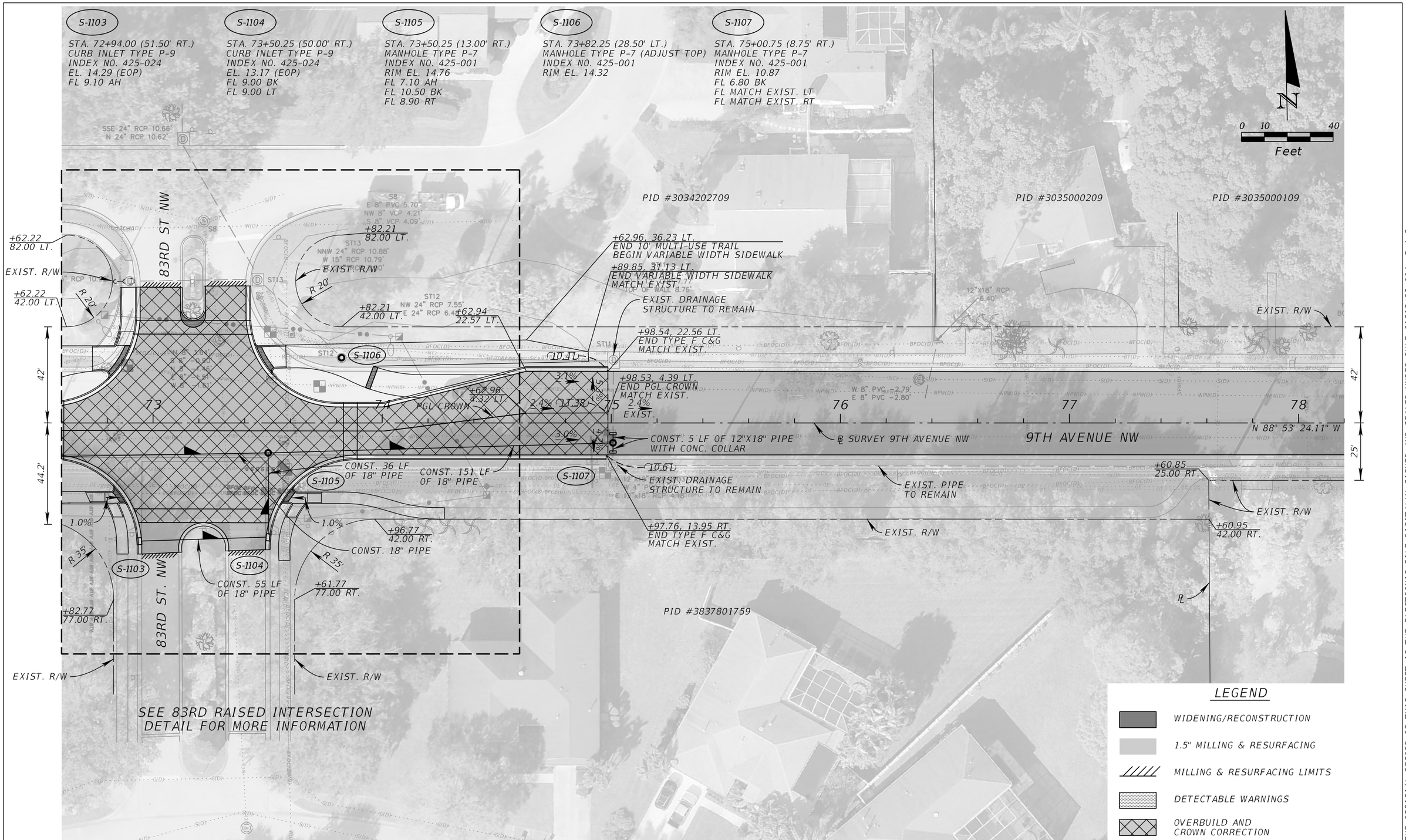
FL LICENSE NUMBER 76102
DATE:

PLAN SHEET (8)

SHEET NUMBER 42



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Manatee County FLORIDA

9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

PLAN SHEET (9)

SHEET NUMBER 43

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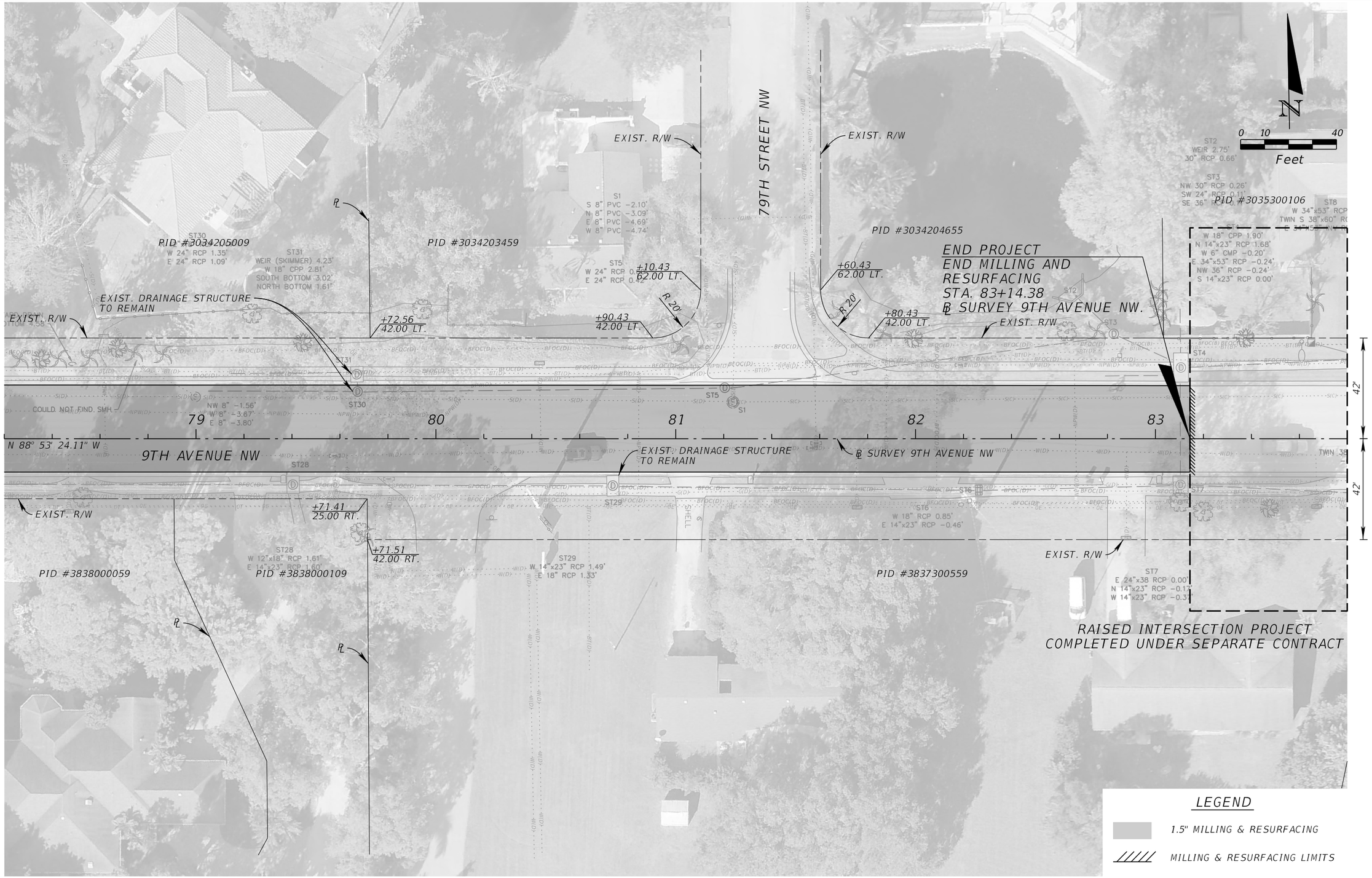

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MANATEE COUNTY FL

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DATE:

PLAN SHEET (10)

SHEET NUMBER
44

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JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
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PLAN SHEET (11)

SHEET NUMBER 45

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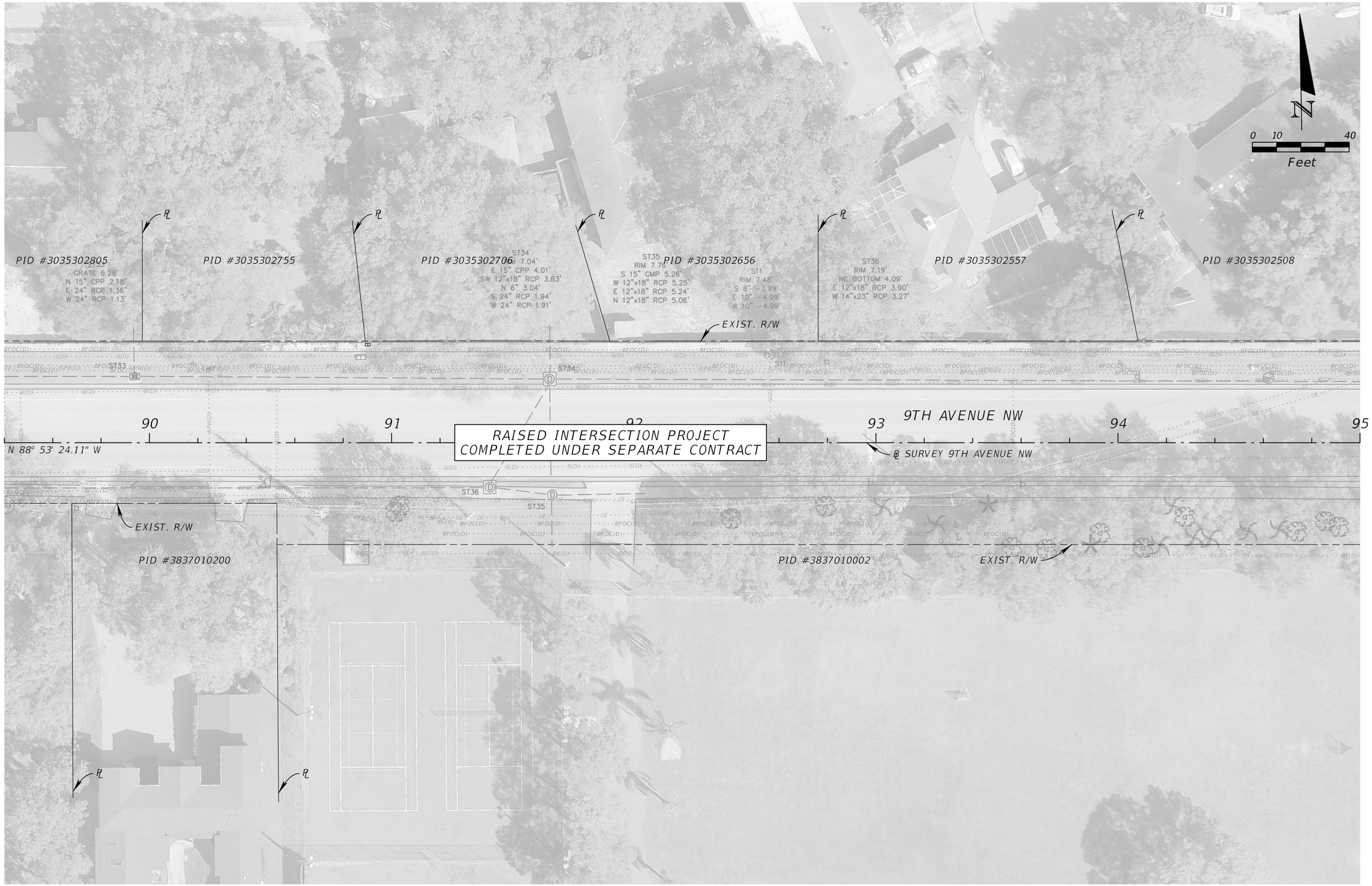

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MANATEE COUNTY FL

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PLAN SHEET (12)

SHEET NUMBER
46

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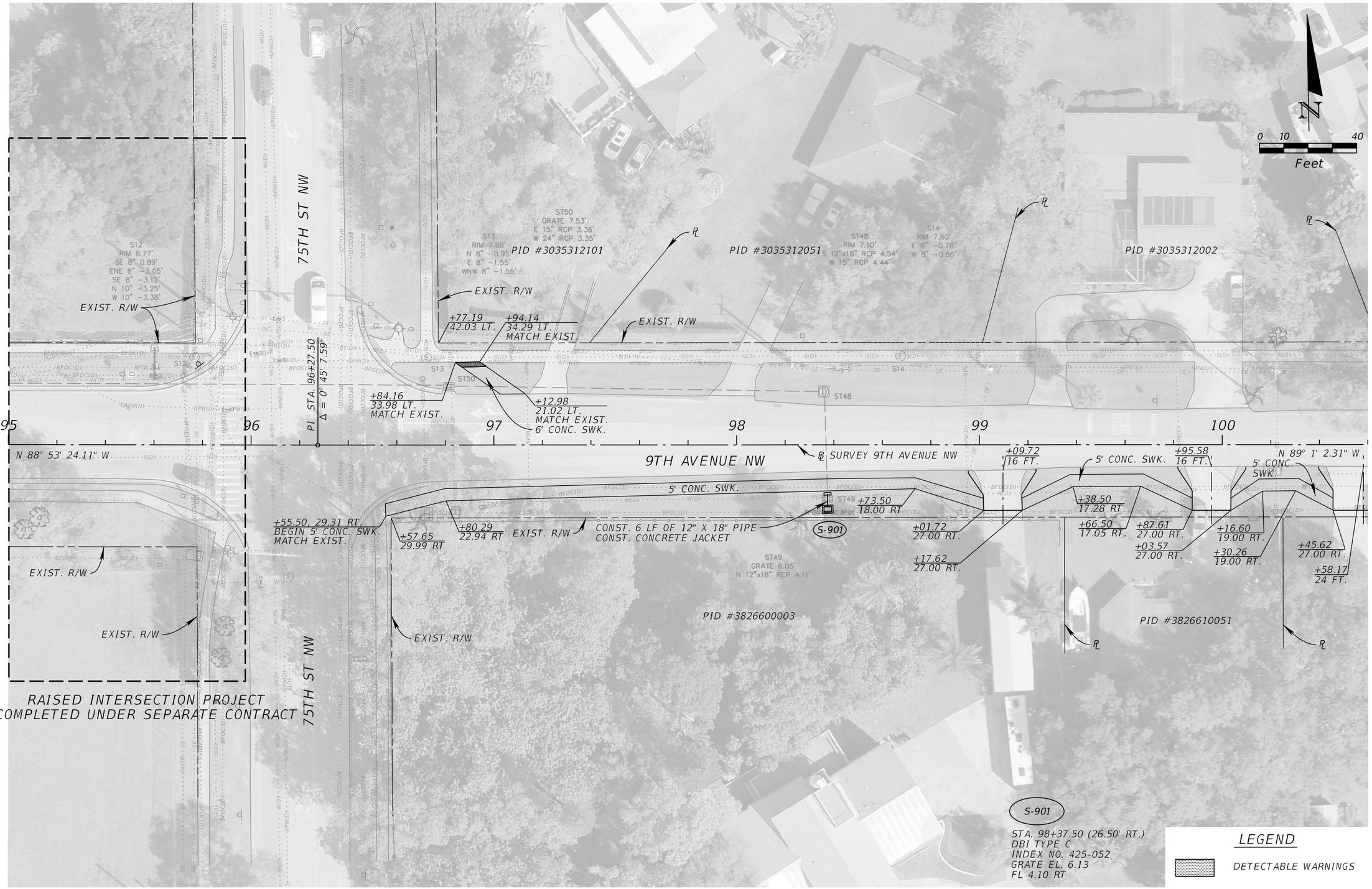

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PLAN SHEET (13)

SHEET NUMBER 47

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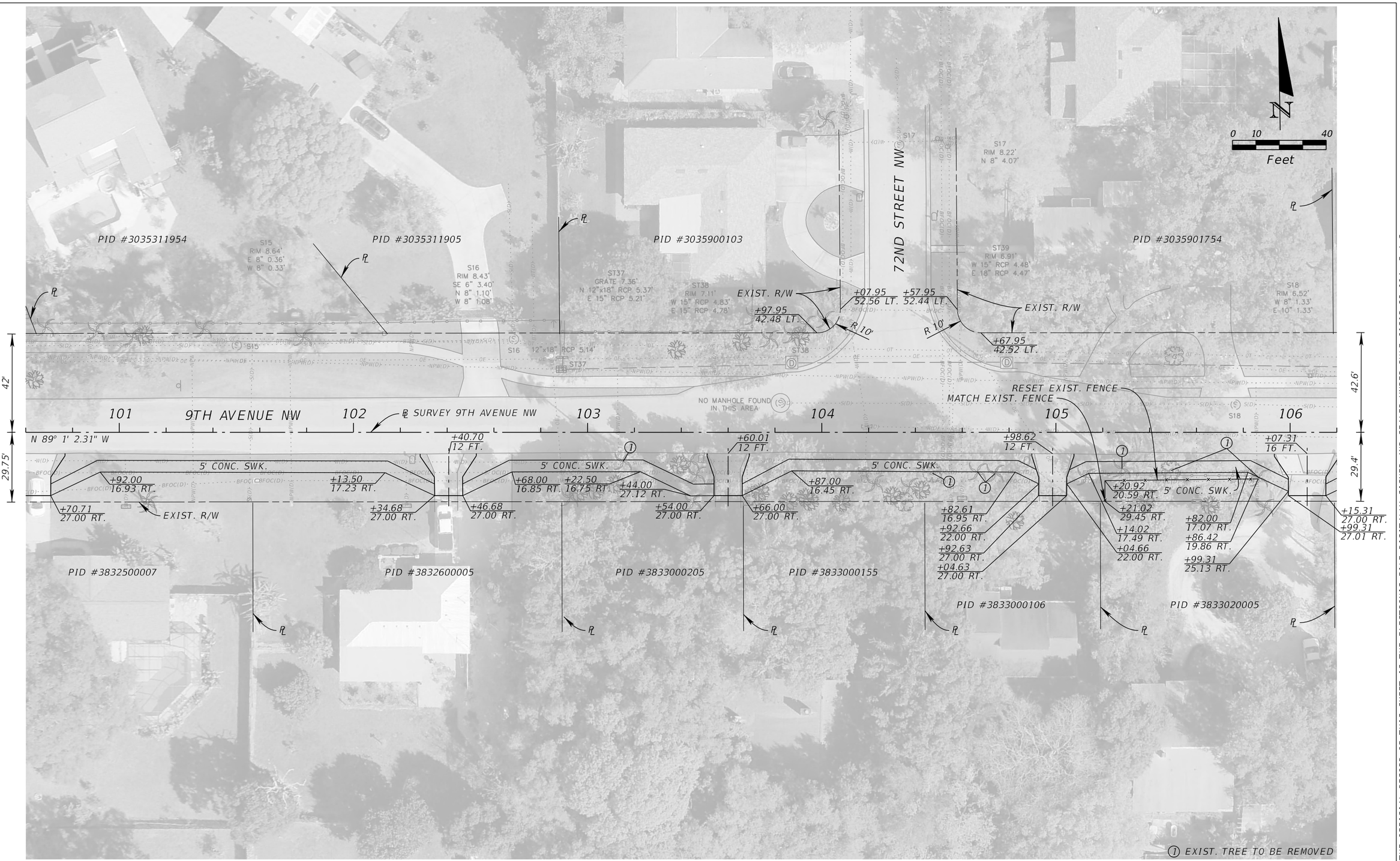

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PLAN SHEET (14)

SHEET NUMBER 48

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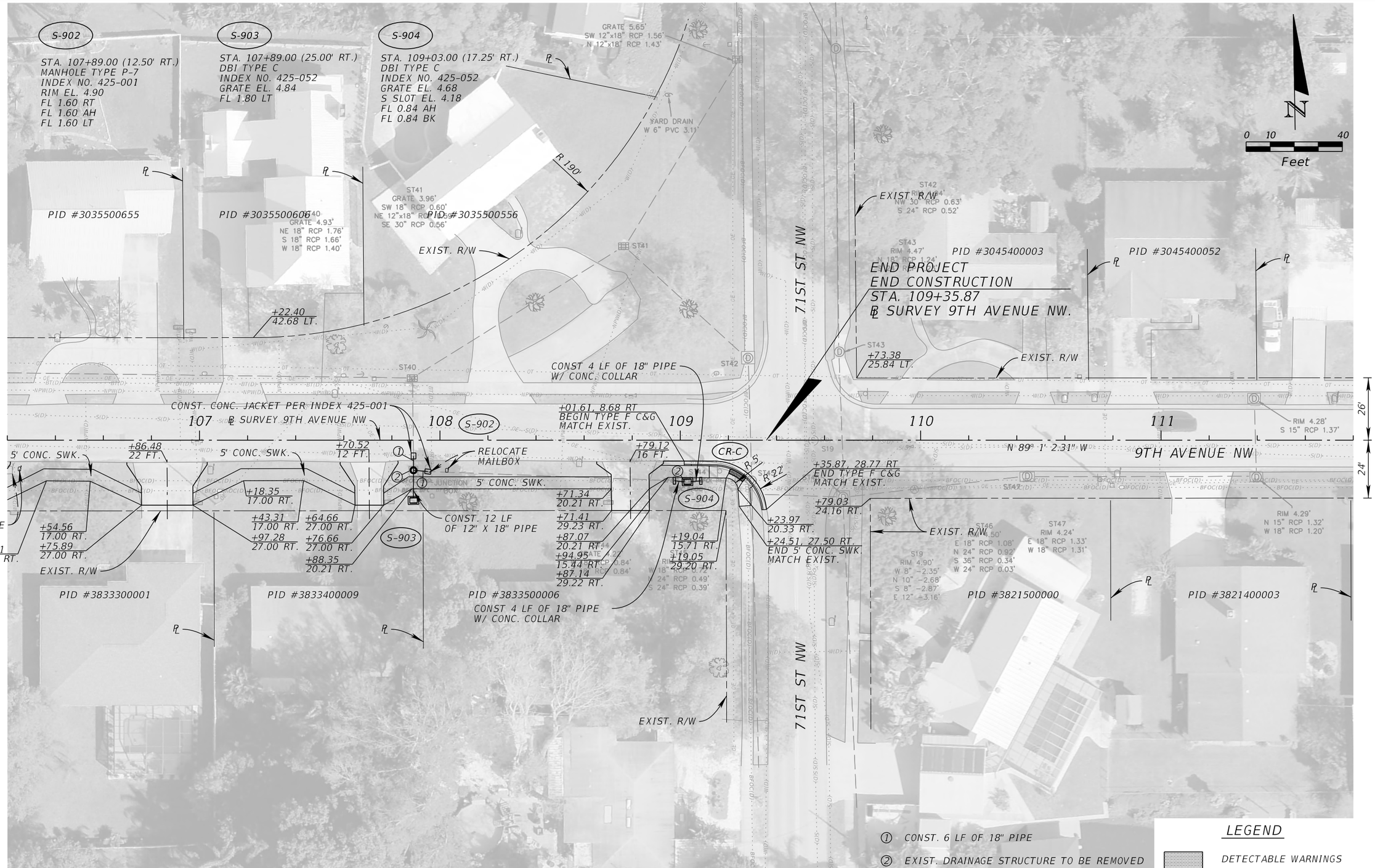

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PLAN SHEET (15)

SHEET NUMBER 49

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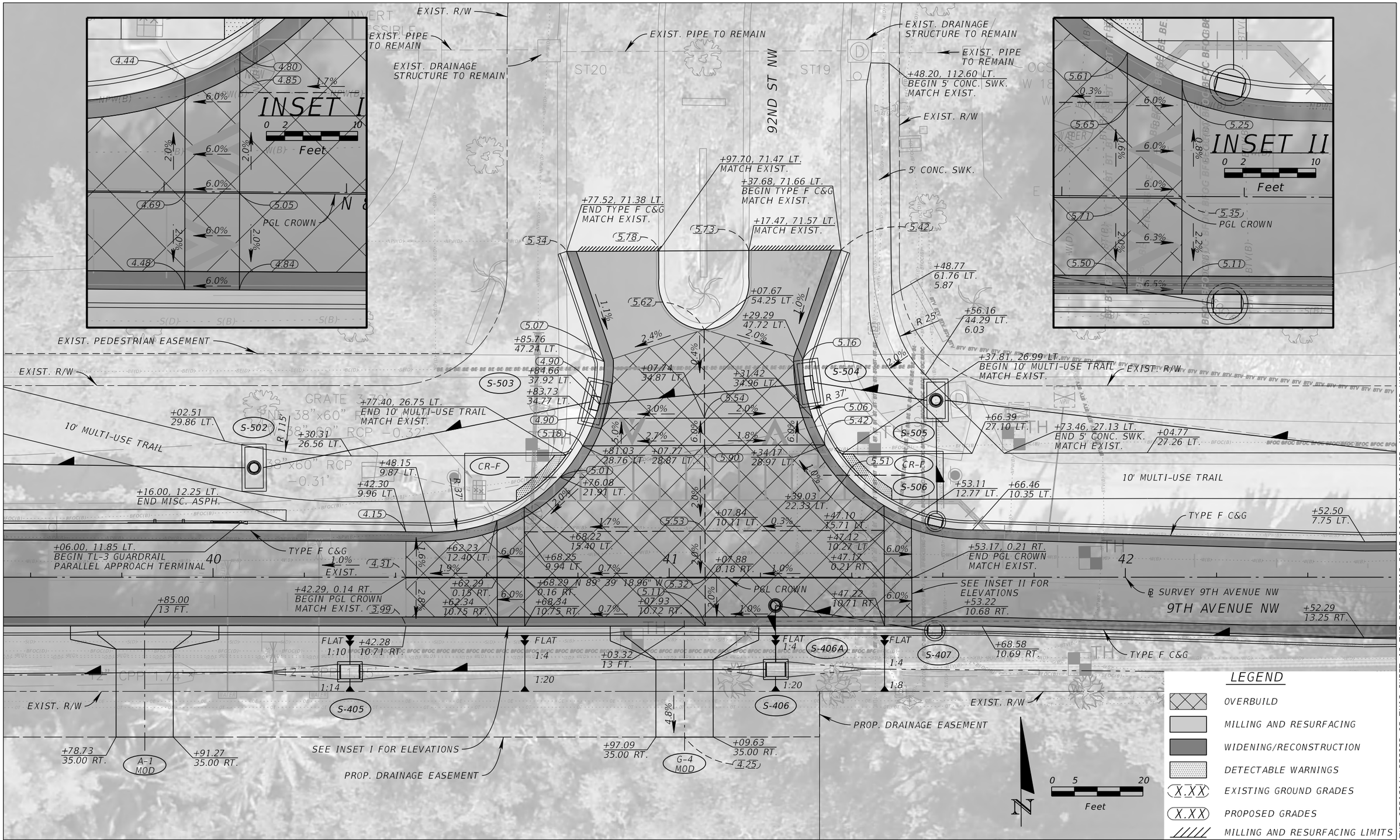

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INTERSECTION DETAIL - 92ND

SHEET NUMBER
50

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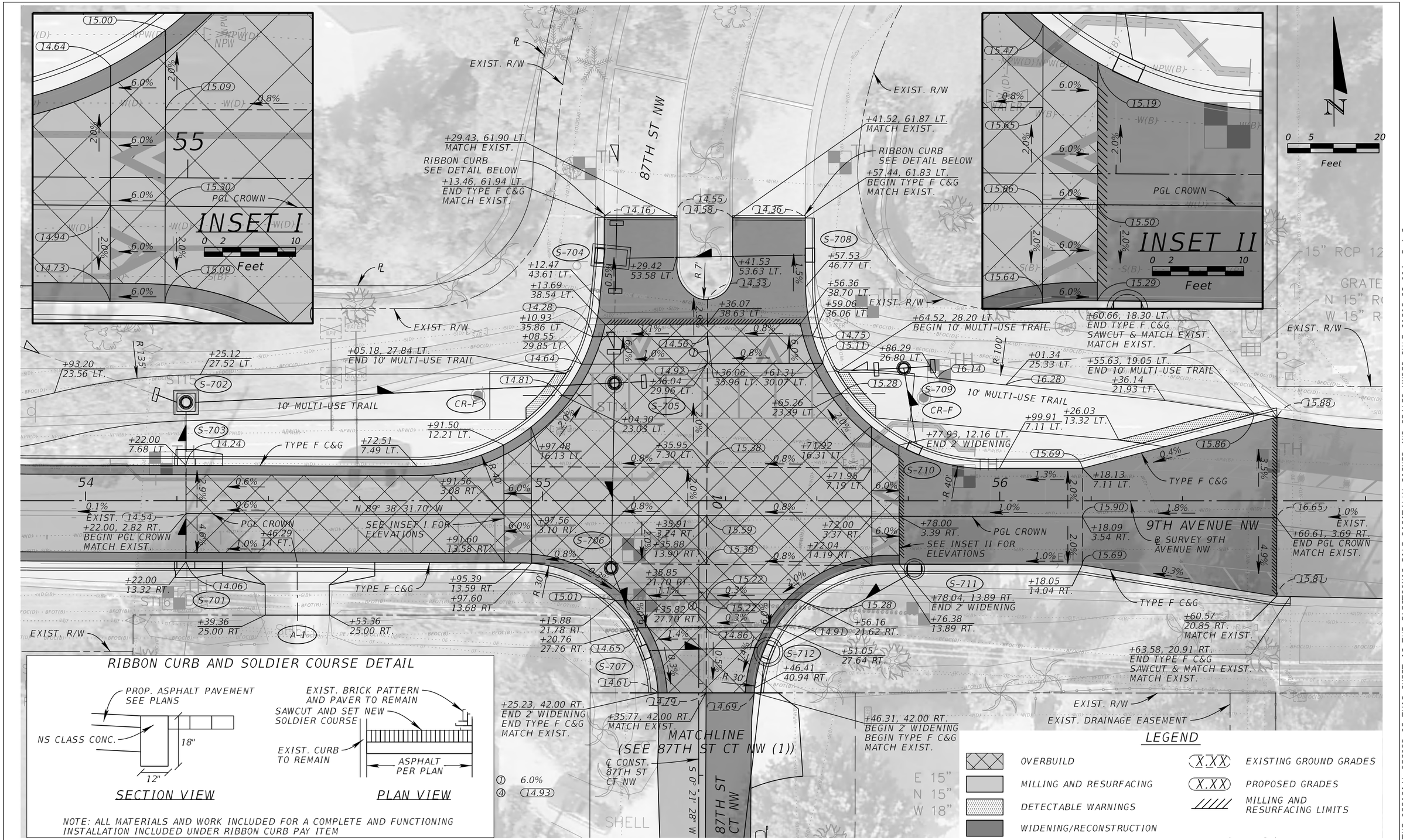

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INTERSECTION DETAIL - 87TH

SHEET NUMBER 51

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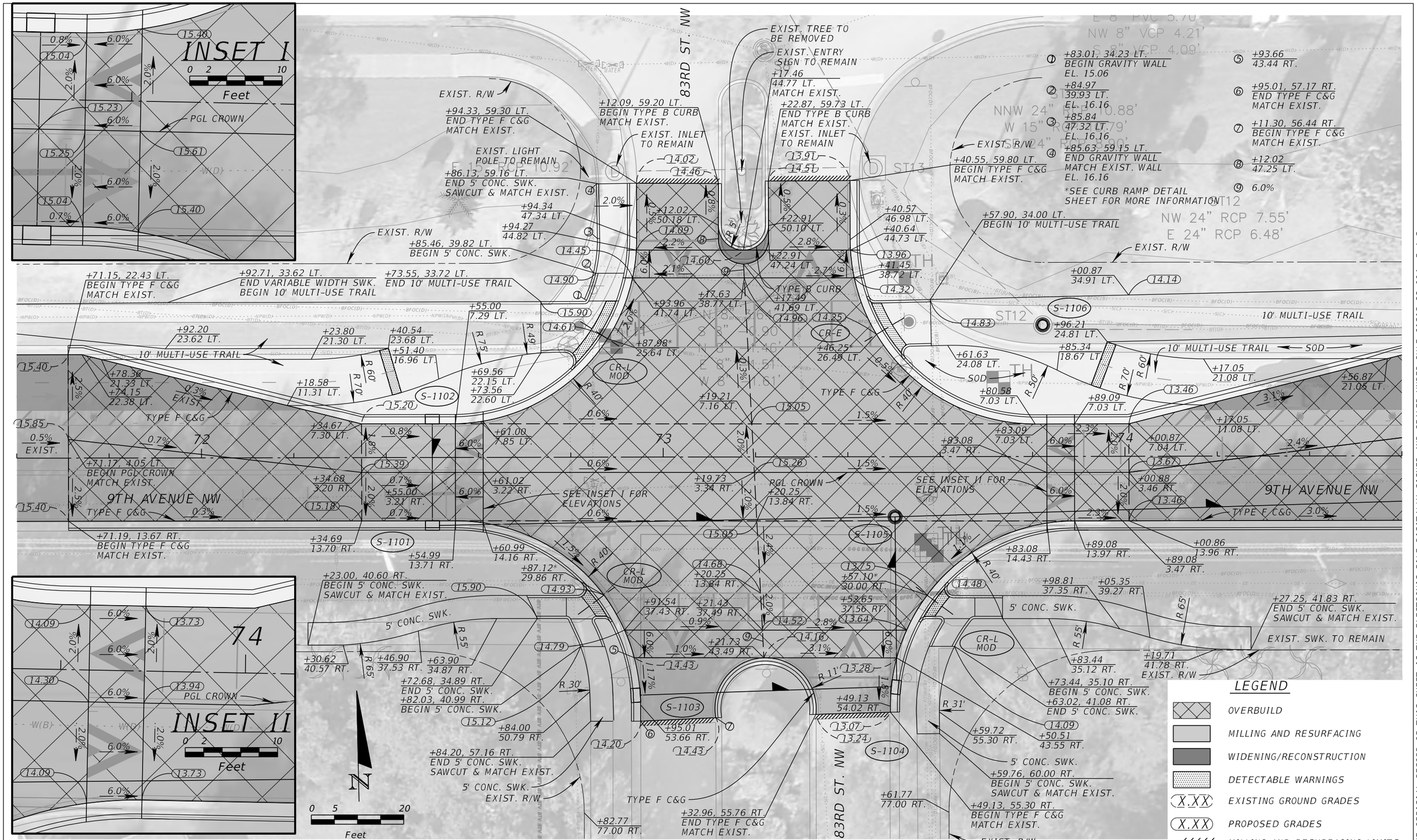

① +83.01, 34.23 LT. BEGIN GRAVITY WALL EL. 15.06
② +84.97 39.93 LT. EL. 16.16
③ +85.84 47.32 LT. EL. 16.16
④ +85.63, 59.15 LT. END GRAVITY WALL MATCH EXIST. WALL EL. 16.16
*SEE CURB RAMP DETAIL SHEET FOR MORE INFORMATION
⑤ +93.66 43.44 RT.
⑥ +95.01, 57.17 RT. END TYPE F C&G MATCH EXIST.
⑦ +11.30, 56.44 RT. BEGIN TYPE F C&G MATCH EXIST.
⑧ +12.02 47.25 LT.
⑨ 6.0%

LEGEND

- OVERBUILD
- MILLING AND RESURFACING
- WIDENING/RECONSTRUCTION
- DETECTABLE WARNINGS
- X.XX EXISTING GROUND GRADES
- X.XX PROPOSED GRADES
- MILLING AND RESURFACING LIMITS

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9TH AVENUE NW

MANATEE COUNTY FL

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JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
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INTERSECTION DETAIL - 83RD

SHEET NUMBER 52

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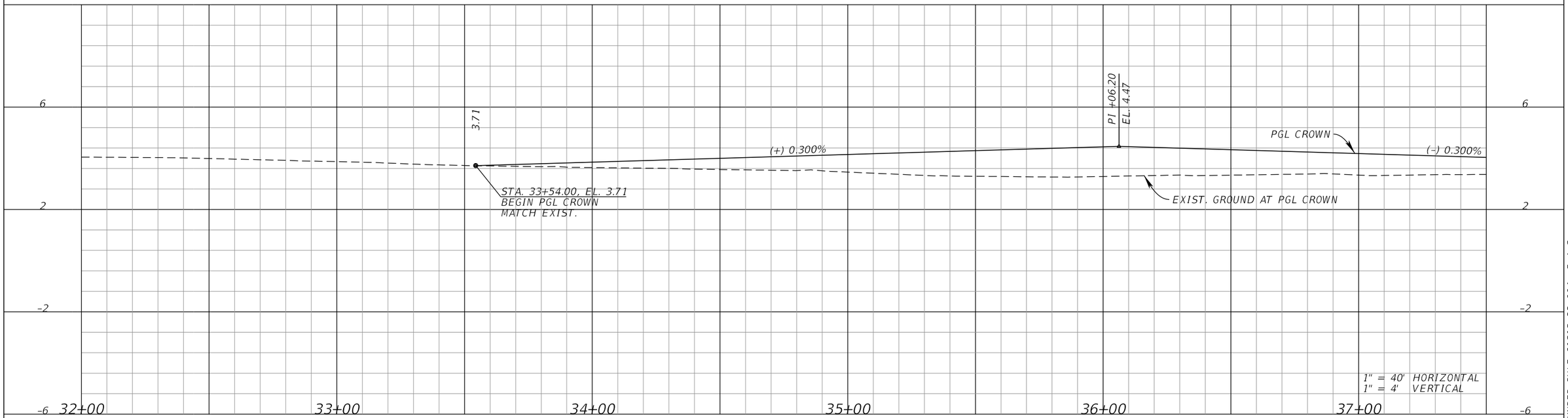
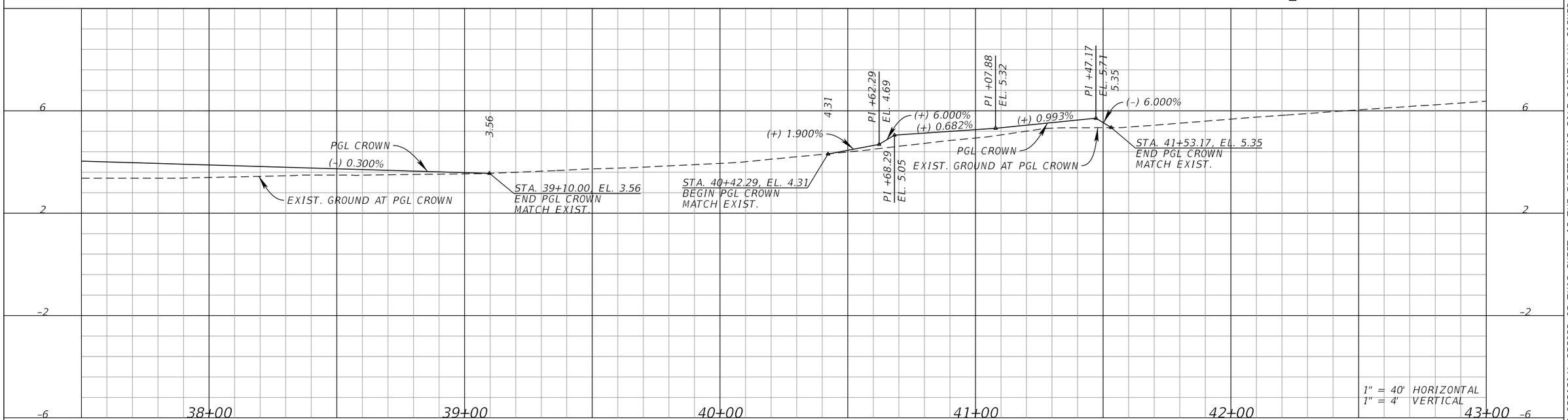


℄ SURVEY 9TH AVENUE NW

℄ SURVEY 9TH AVENUE NW



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MANATEE COUNTY FL

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JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

PGL PROFILE (1)

SHEET NUMBER
53

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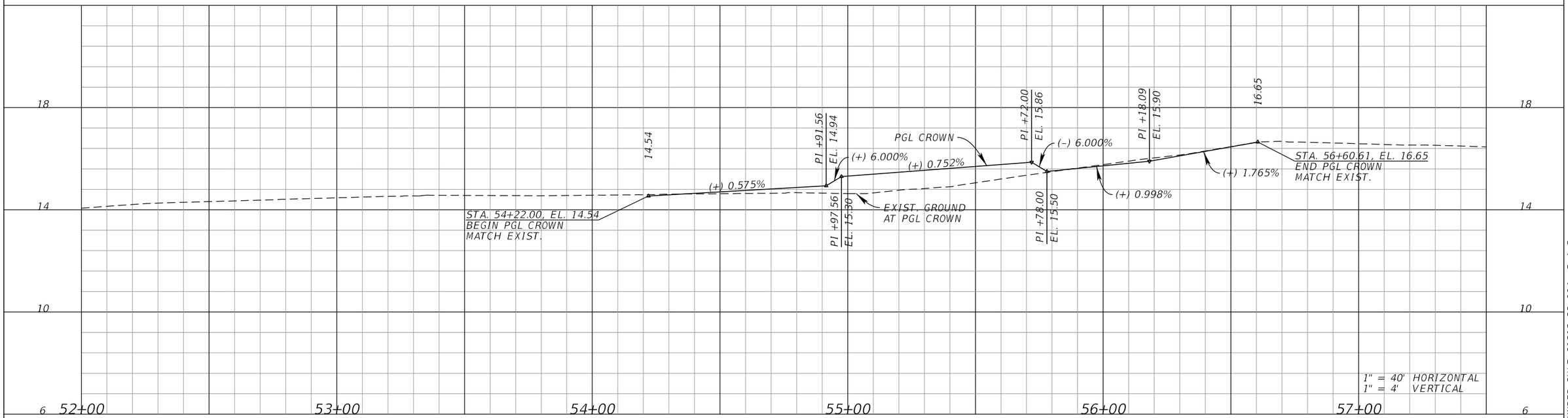
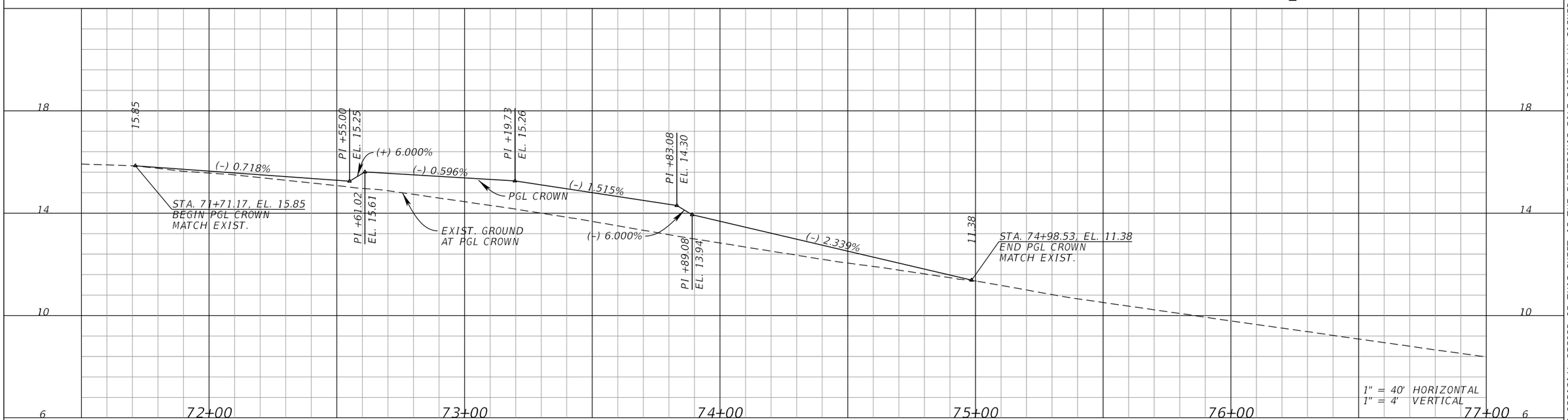


℄ SURVEY 9TH AVENUE NW

℄ SURVEY 9TH AVENUE NW



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DATE:

PGL PROFILE (2)

SHEET NUMBER
54

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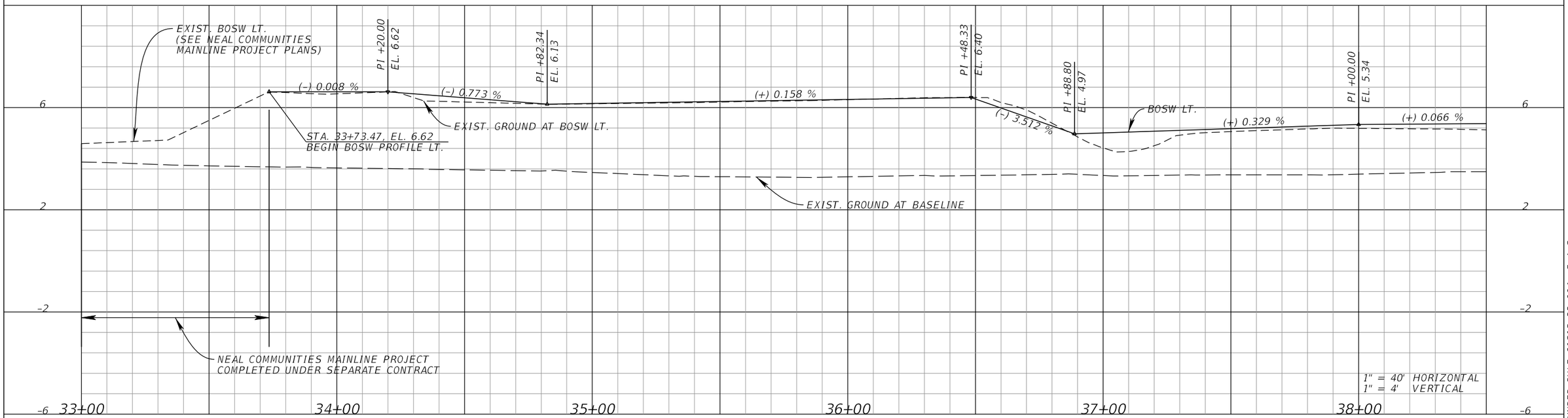
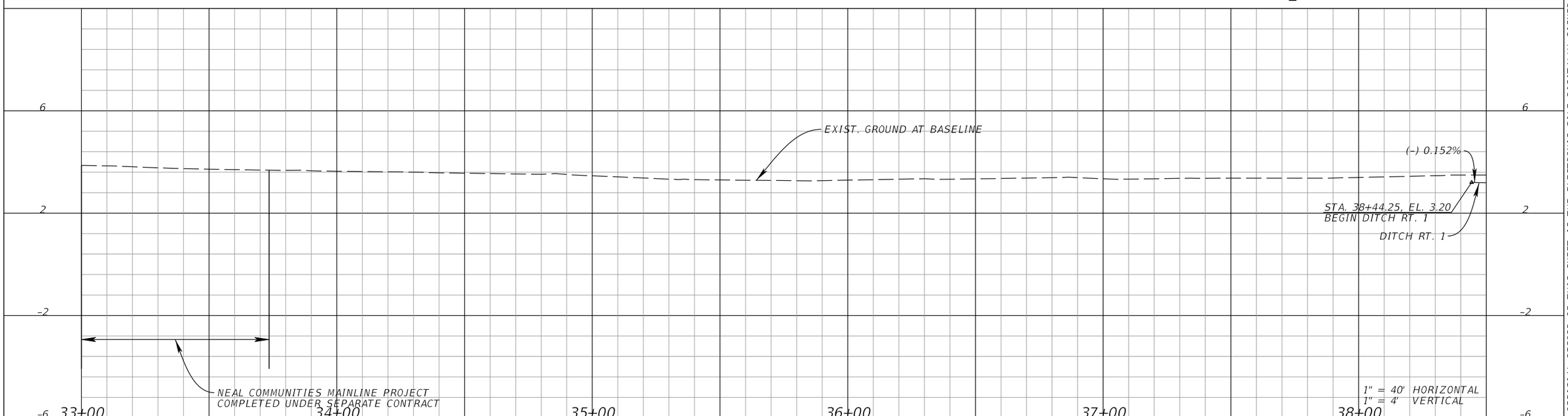


BOSW LEFT

℄ SURVEY 9TH AVENUE NW

BOSW RIGHT

℄ SURVEY 9TH AVENUE NW



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BOSW PROFILES (1)

SHEET NUMBER
55

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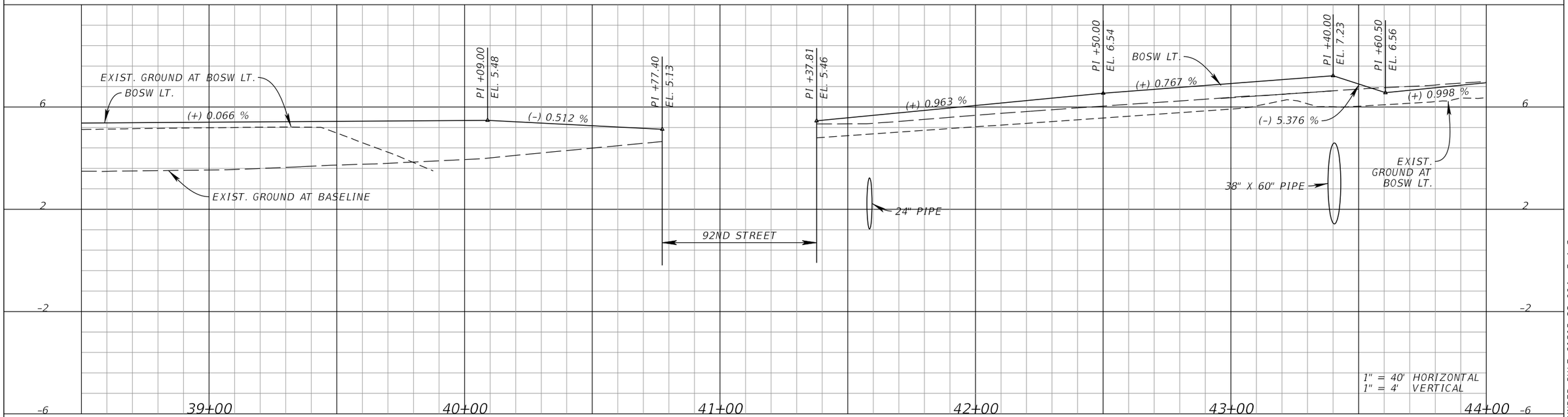

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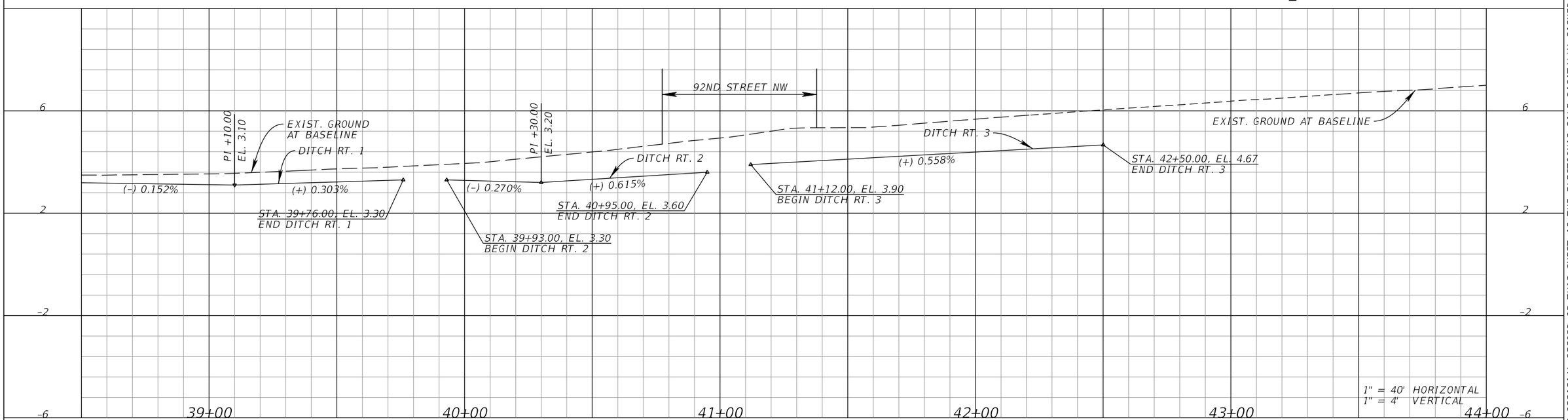
BOSW RIGHT

℄ SURVEY 9TH AVENUE NW



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LICENSED PROFESSIONAL
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FL LICENSE NUMBER 76102
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BOSW PROFILES (2)

SHEET NUMBER
56

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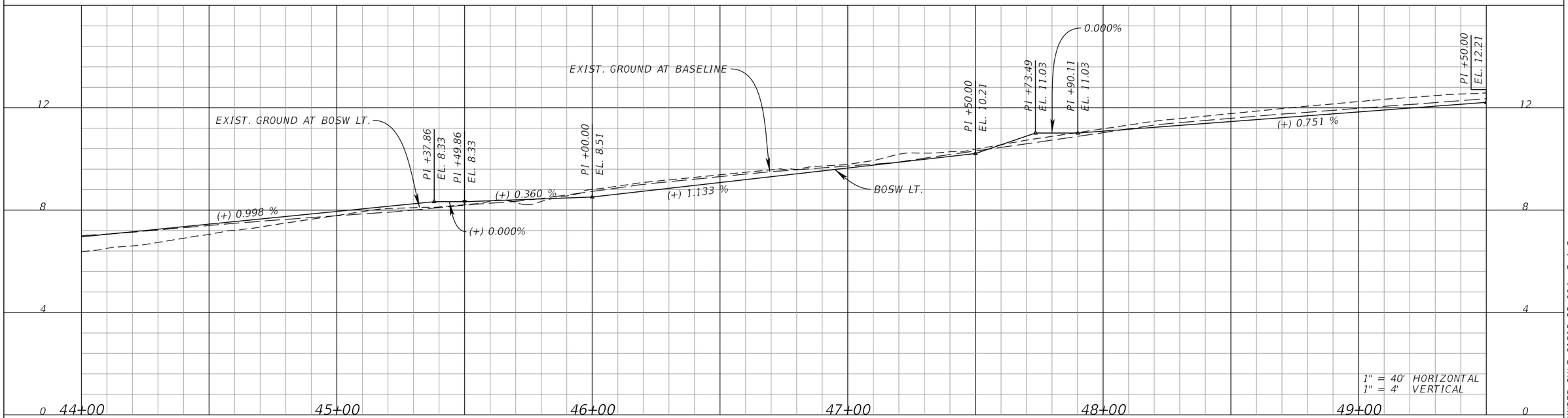
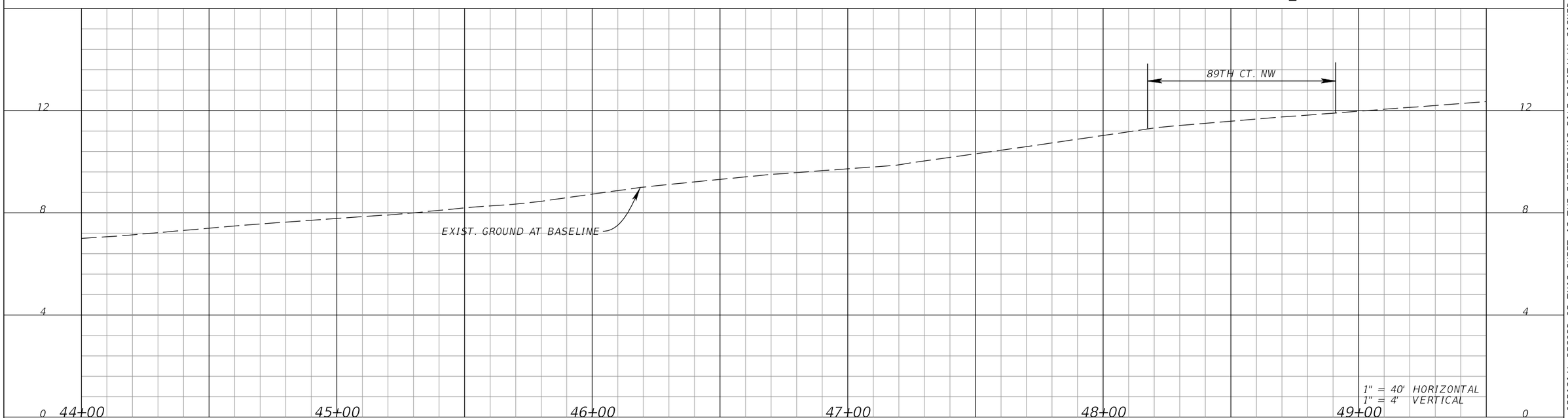


BOSW LEFT

℄ SURVEY 9TH AVENUE NW

BOSW RIGHT

℄ SURVEY 9TH AVENUE NW



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BOSW PROFILES (3)

SHEET NUMBER
57

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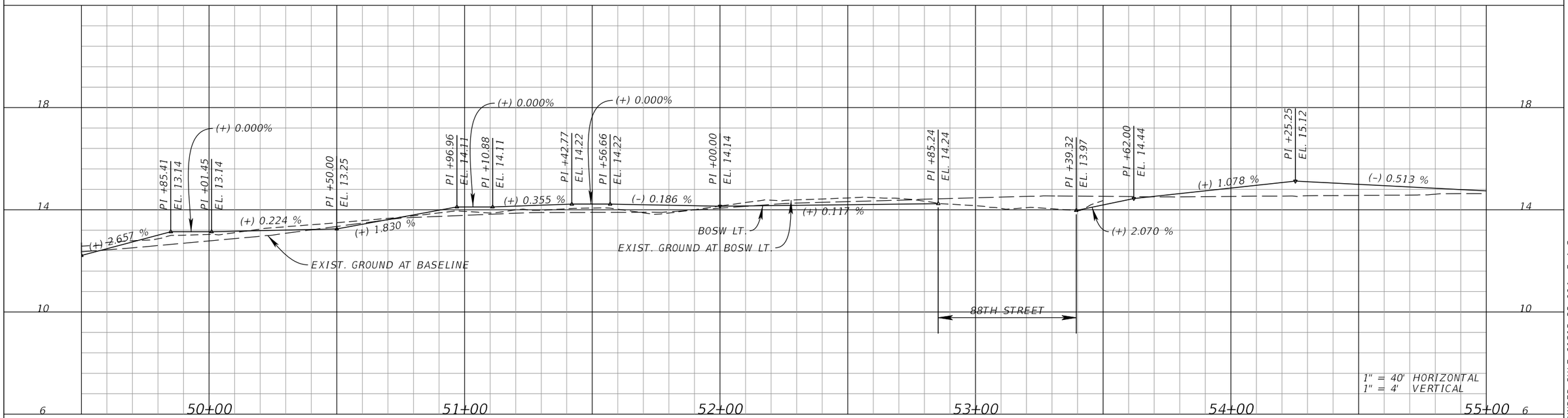
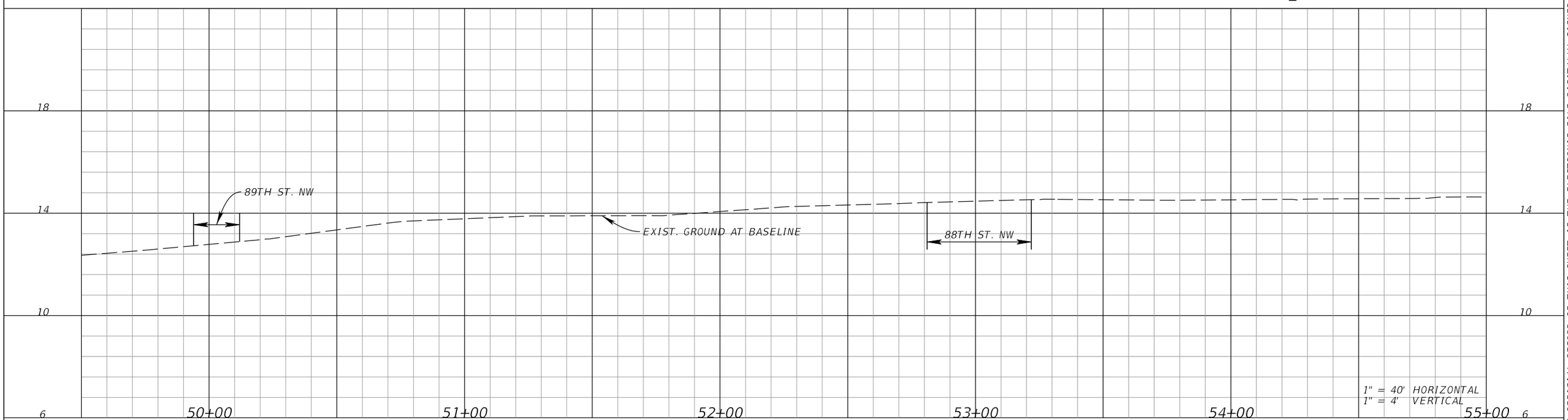


BOSW LEFT

℄ SURVEY 9TH AVENUE NW

BOSW RIGHT

℄ SURVEY 9TH AVENUE NW



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BOSW PROFILES (4)

SHEET NUMBER 58

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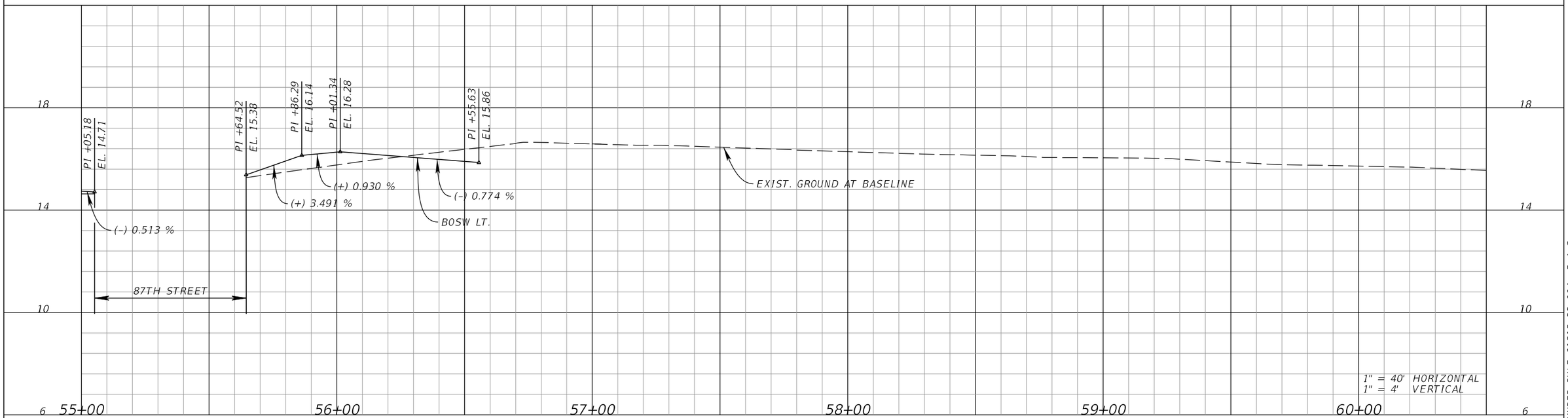
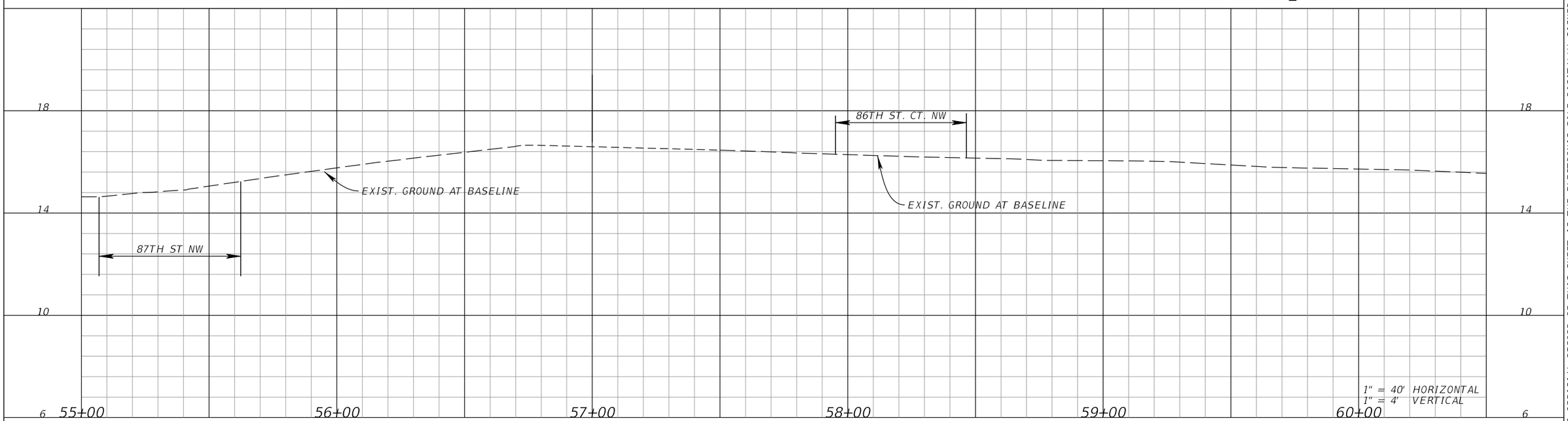


BOSW LEFT

℄ SURVEY 9TH AVENUE NW

BOSW RIGHT

℄ SURVEY 9TH AVENUE NW



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FL LICENSE NUMBER 76102
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BOSW PROFILES (5)

SHEET NUMBER
59

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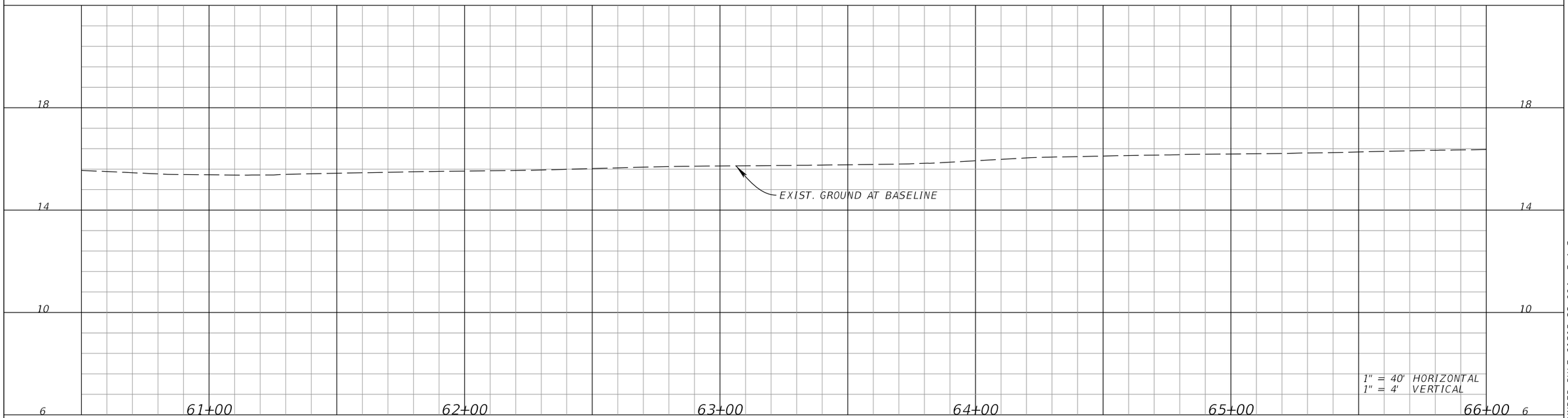
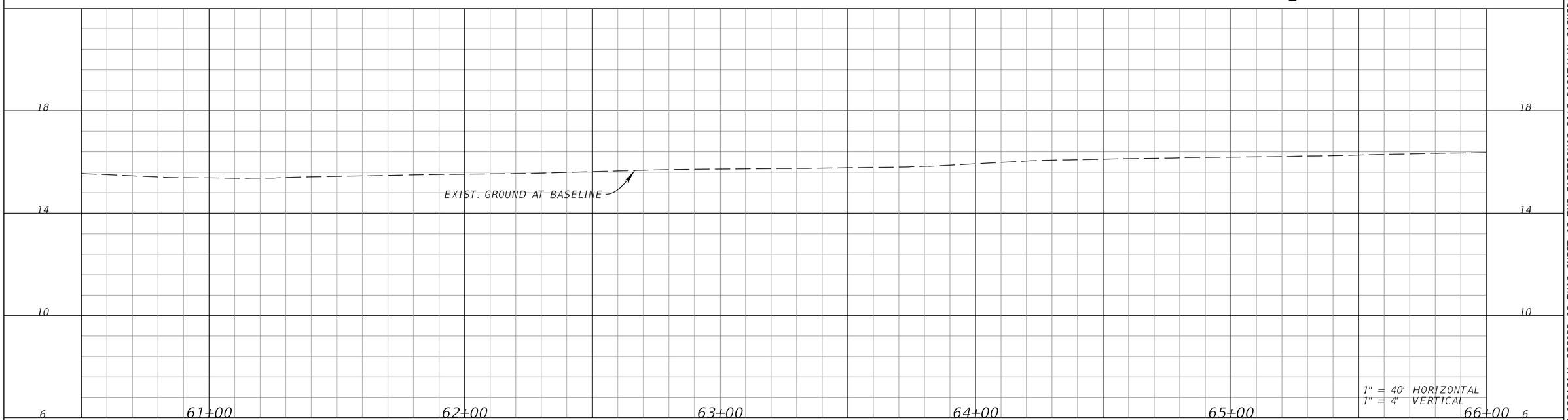


BOSW LEFT

℄ SURVEY 9TH AVENUE NW

BOSW RIGHT

℄ SURVEY 9TH AVENUE NW



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KHA PROJECT 148400070
DATE 10/02/2025
SCALE AS SHOWN
DESIGNED BY
DRAWN BY
CHECKED BY

Manatee County FLORIDA

9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL

JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

BOSW PROFILES (6)

SHEET NUMBER 60

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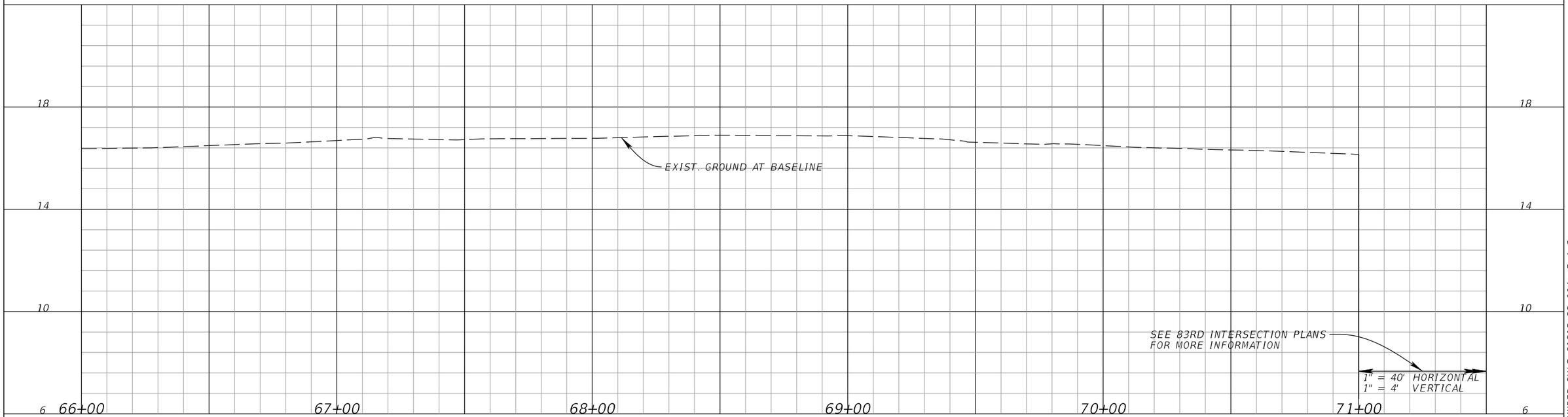
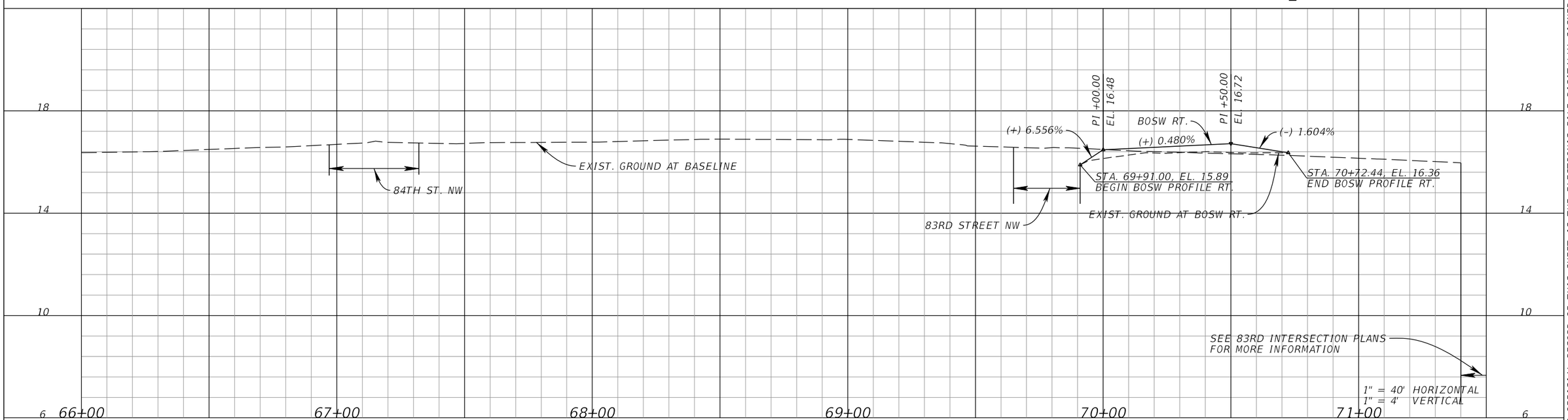


BOSW LEFT

℄ SURVEY 9TH AVENUE NW

BOSW RIGHT

℄ SURVEY 9TH AVENUE NW



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9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL

JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

BOSW PROFILES (7)

SHEET NUMBER 61

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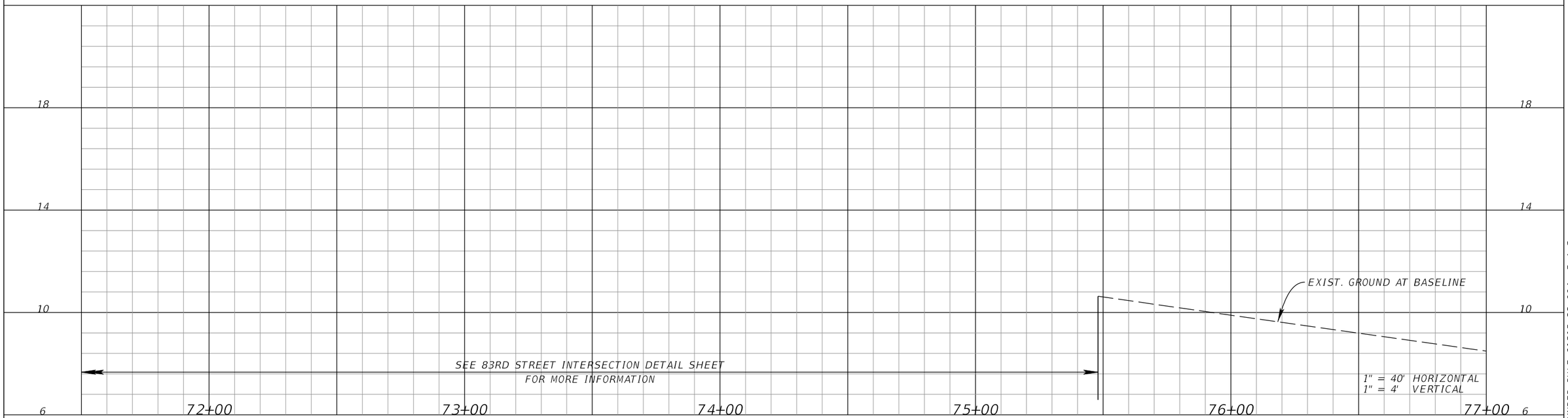
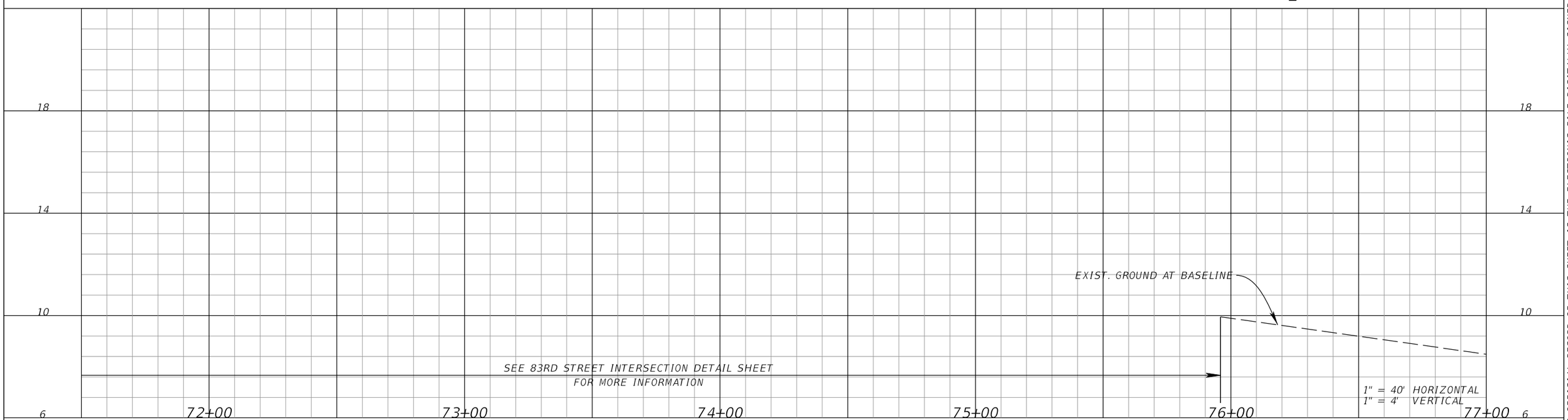


BOSW LEFT

℄ SURVEY 9TH AVENUE NW

BOSW RIGHT

℄ SURVEY 9TH AVENUE NW



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9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
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BOSW PROFILES (8)

SHEET NUMBER
62

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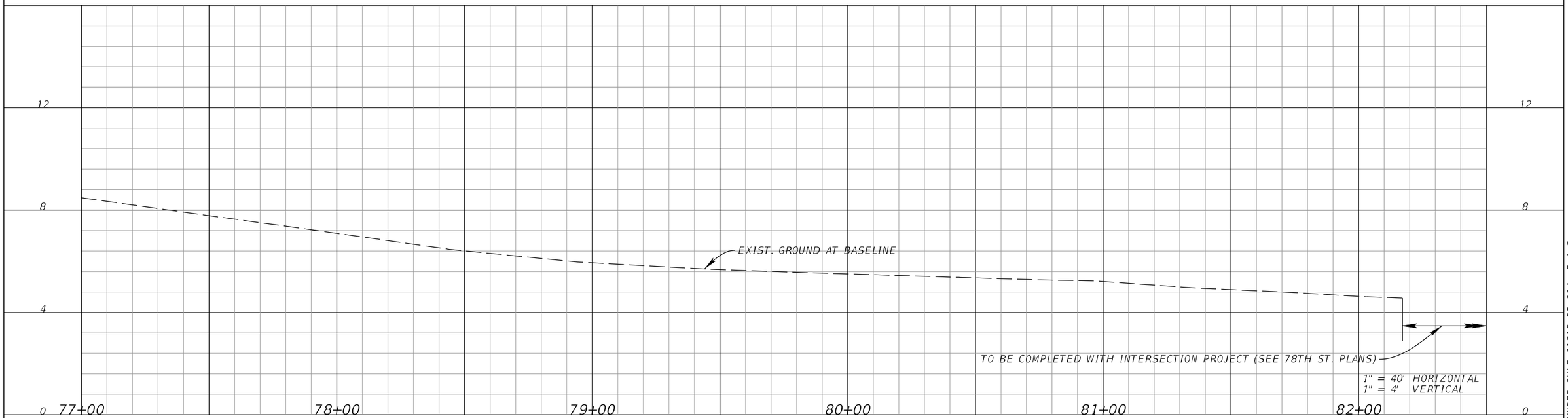
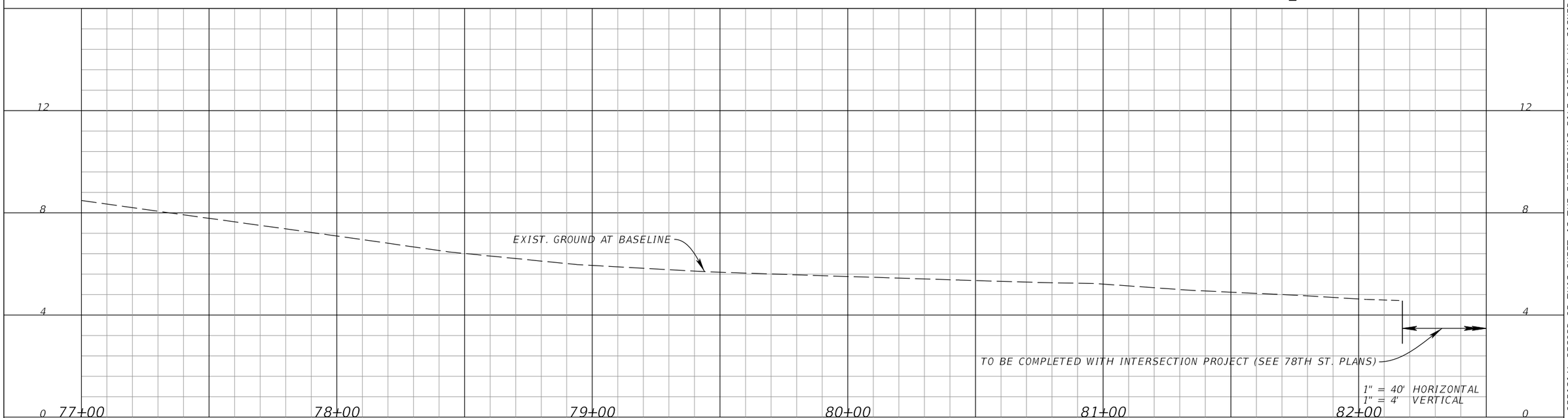


BOSW LEFT

℄ SURVEY 9TH AVENUE NW

BOSW RIGHT

℄ SURVEY 9TH AVENUE NW



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9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL

JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

BOSW PROFILES (9)

SHEET NUMBER 63

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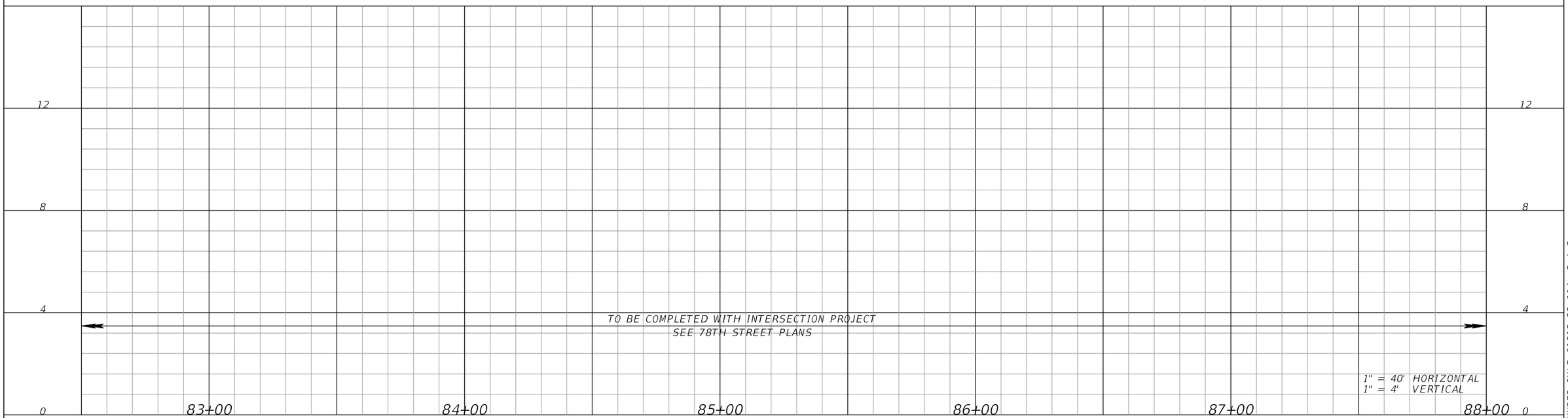

BOSW LEFT

℄ SURVEY 9TH AVENUE NW

BOSW RIGHT

℄ SURVEY 9TH AVENUE NW

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9TH AVENUE NW

MANATEE COUNTY FL

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JORDAN E. LEEP, P.E.
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DATE:

BOSW PROFILES (10)

SHEET NUMBER
64

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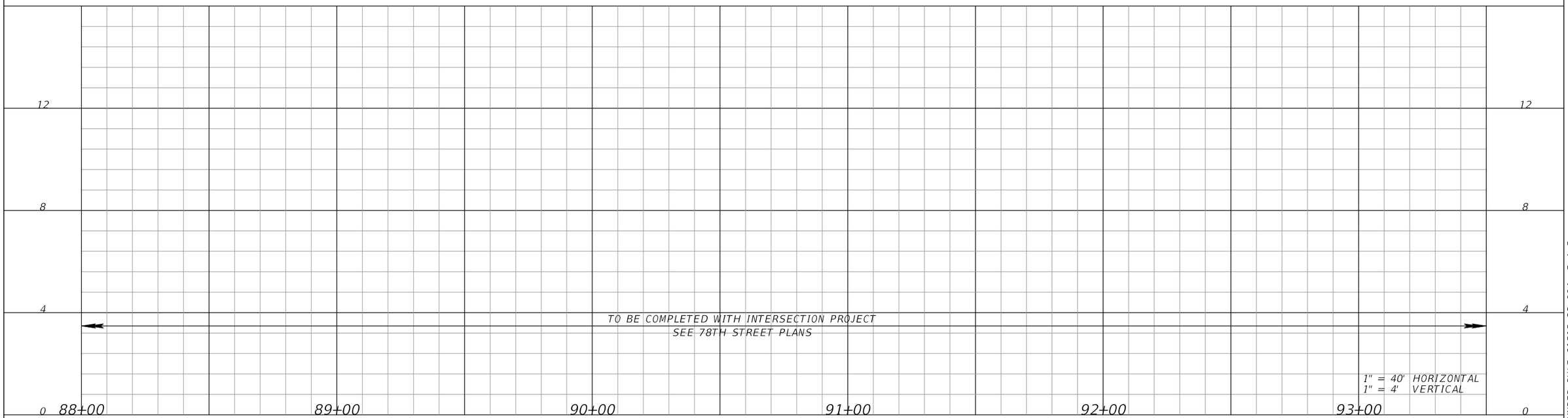
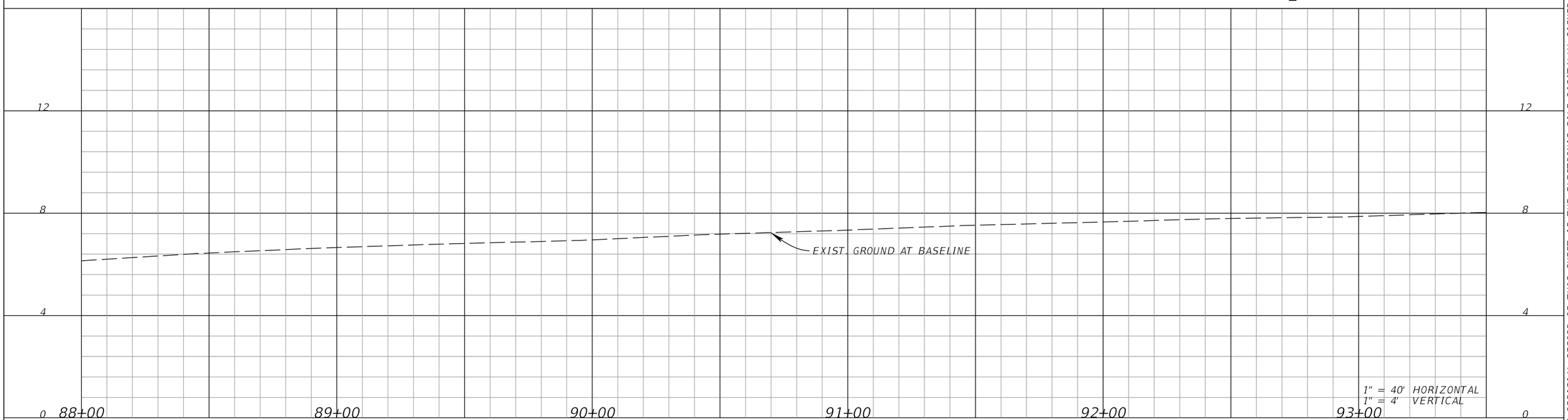


BOSW LEFT

℄ SURVEY 9TH AVENUE NW

BOSW RIGHT

℄ SURVEY 9TH AVENUE NW



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9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL

JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

BOSW PROFILES (11)

SHEET NUMBER 65

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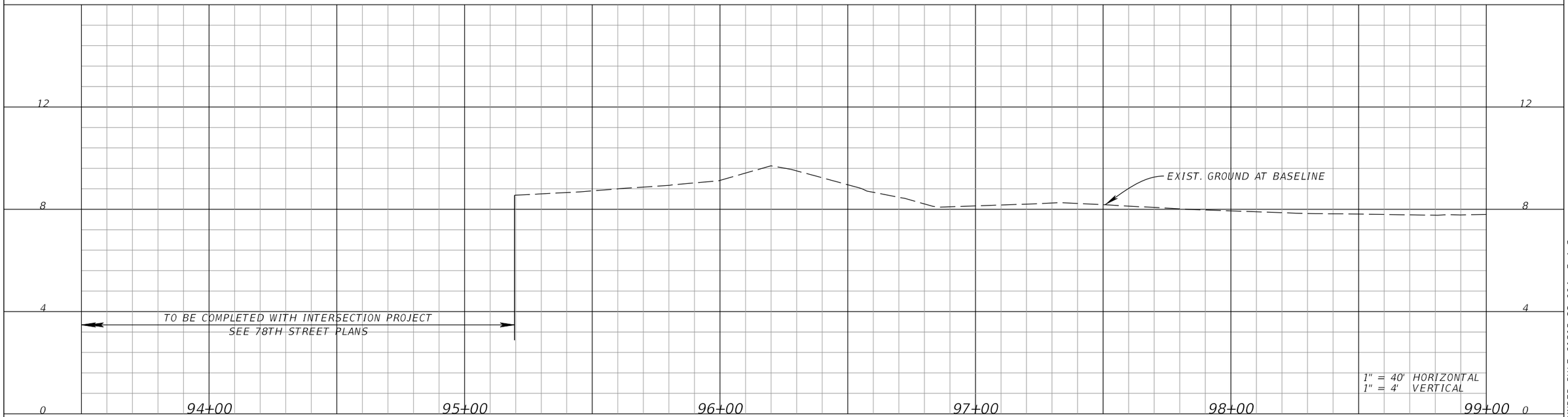
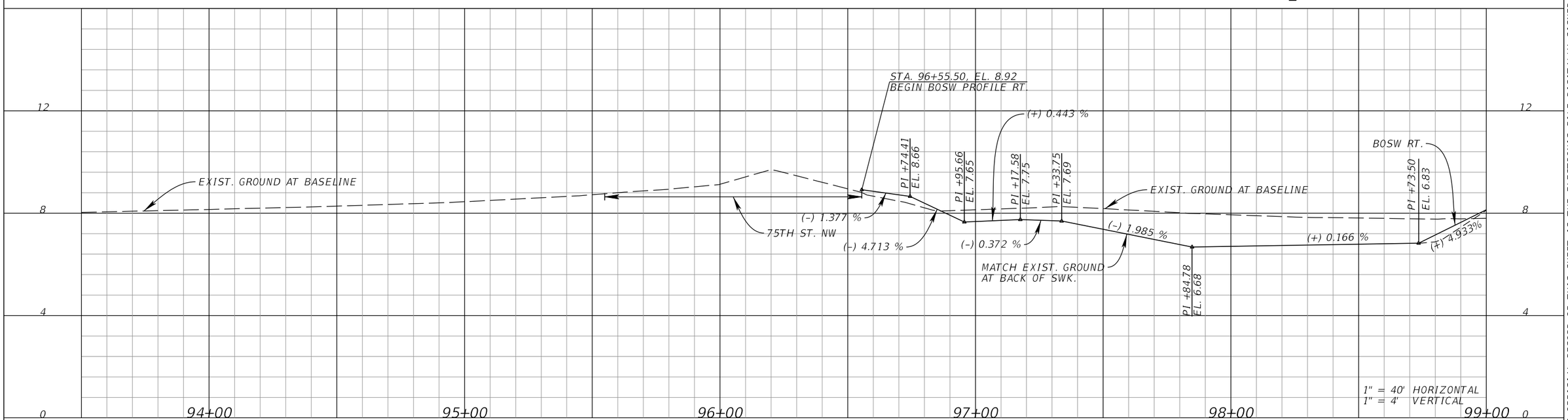


BOSW LEFT

℄ SURVEY 9TH AVENUE NW

BOSW RIGHT

℄ SURVEY 9TH AVENUE NW



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BOSW PROFILES (12)

SHEET NUMBER 66

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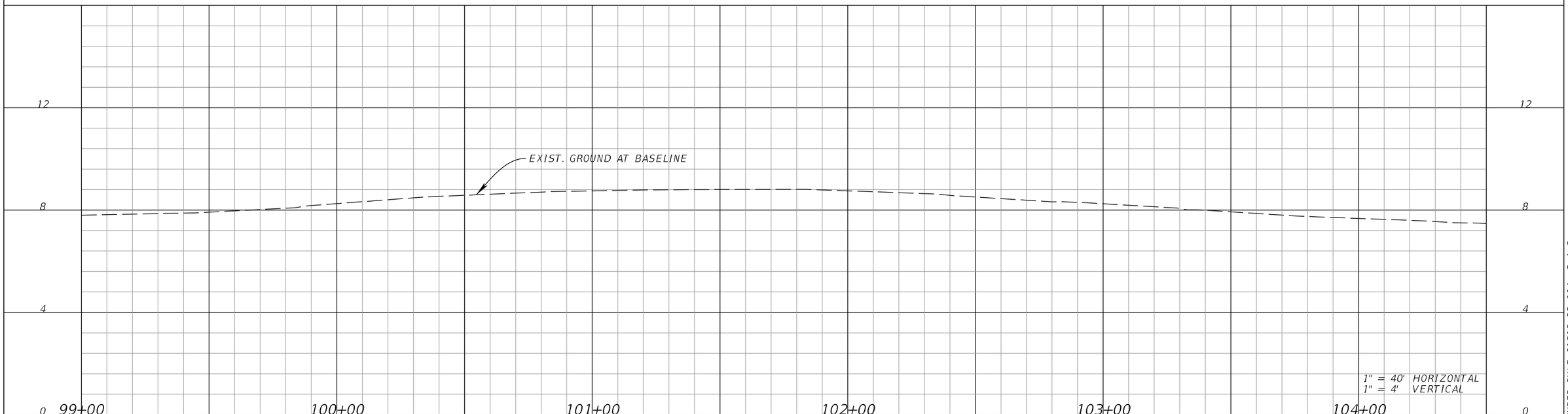
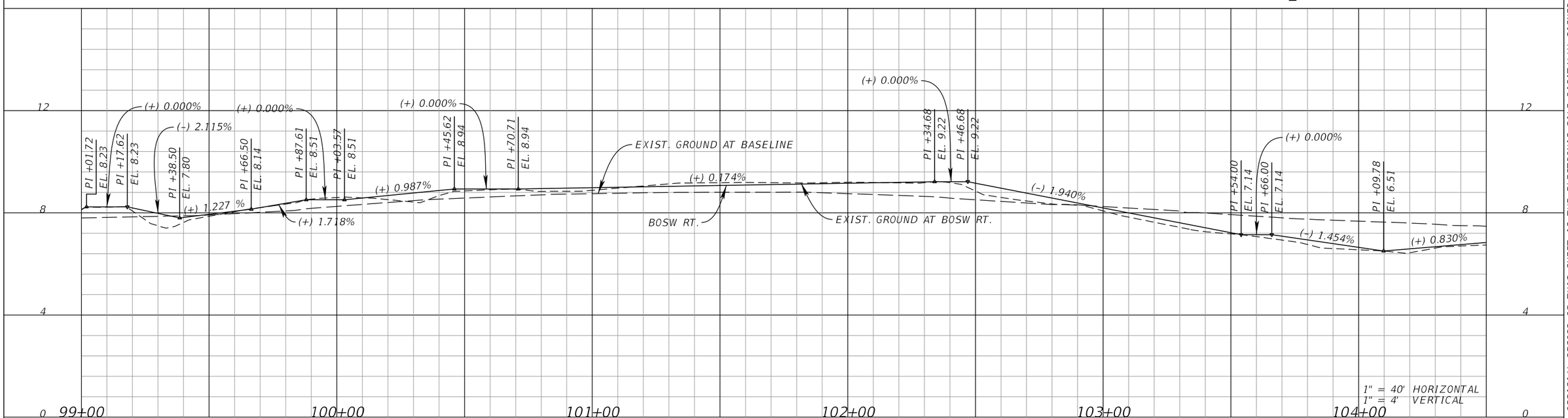


BOSW LEFT

℄ SURVEY 9TH AVENUE NW

BOSW RIGHT

℄ SURVEY 9TH AVENUE NW



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MANATEE COUNTY FL

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JORDAN E. LEEP, P.E.
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BOSW PROFILES (13)

SHEET NUMBER 67

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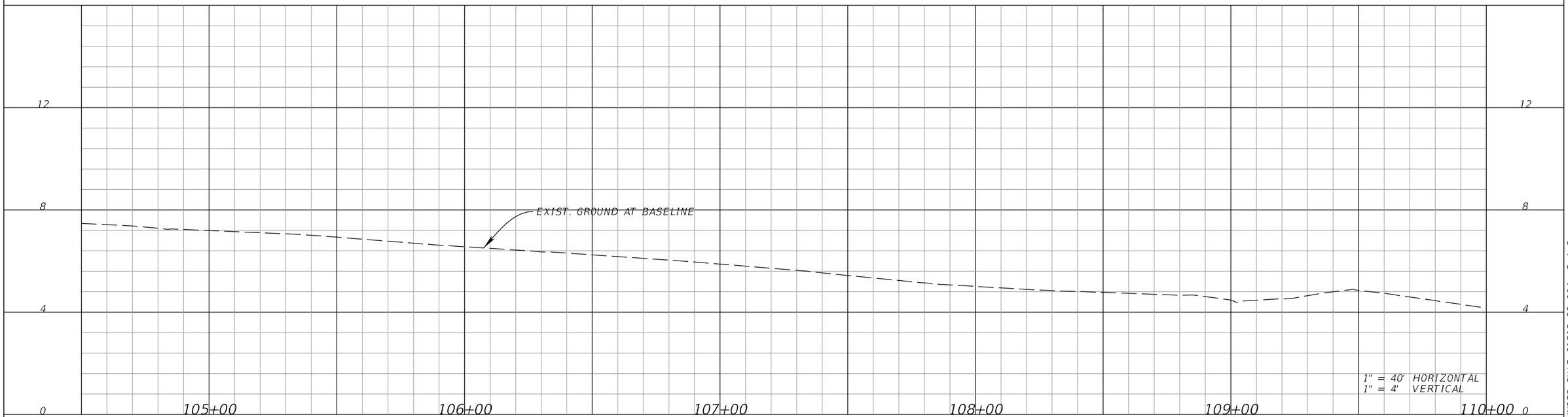
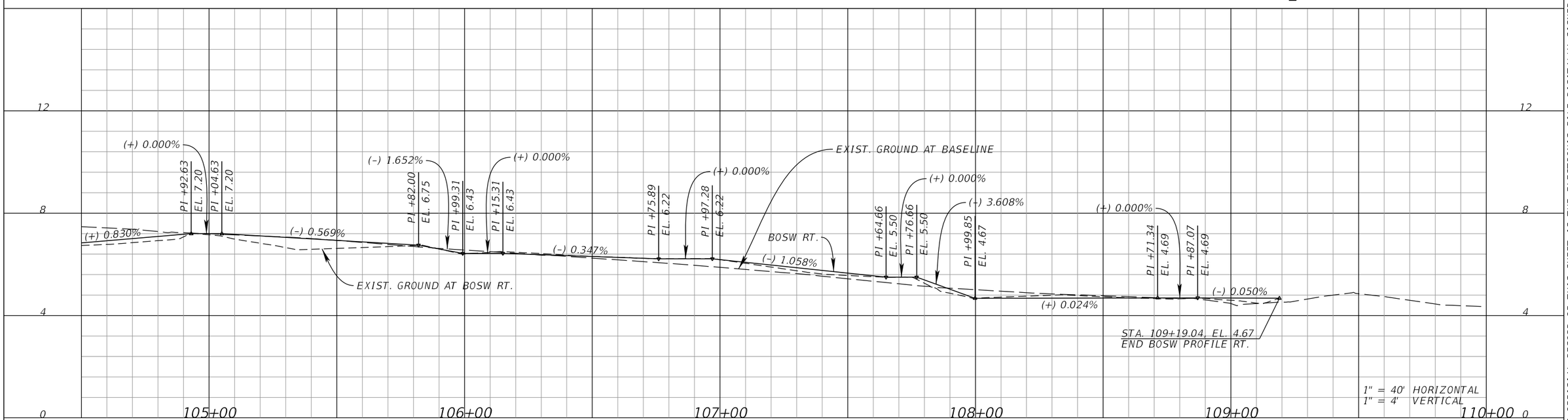


BOSW LEFT

℄ SURVEY 9TH AVENUE NW

BOSW RIGHT

℄ SURVEY 9TH AVENUE NW



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9TH AVENUE NW

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LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

BOSW PROFILES (14)

SHEET NUMBER
68

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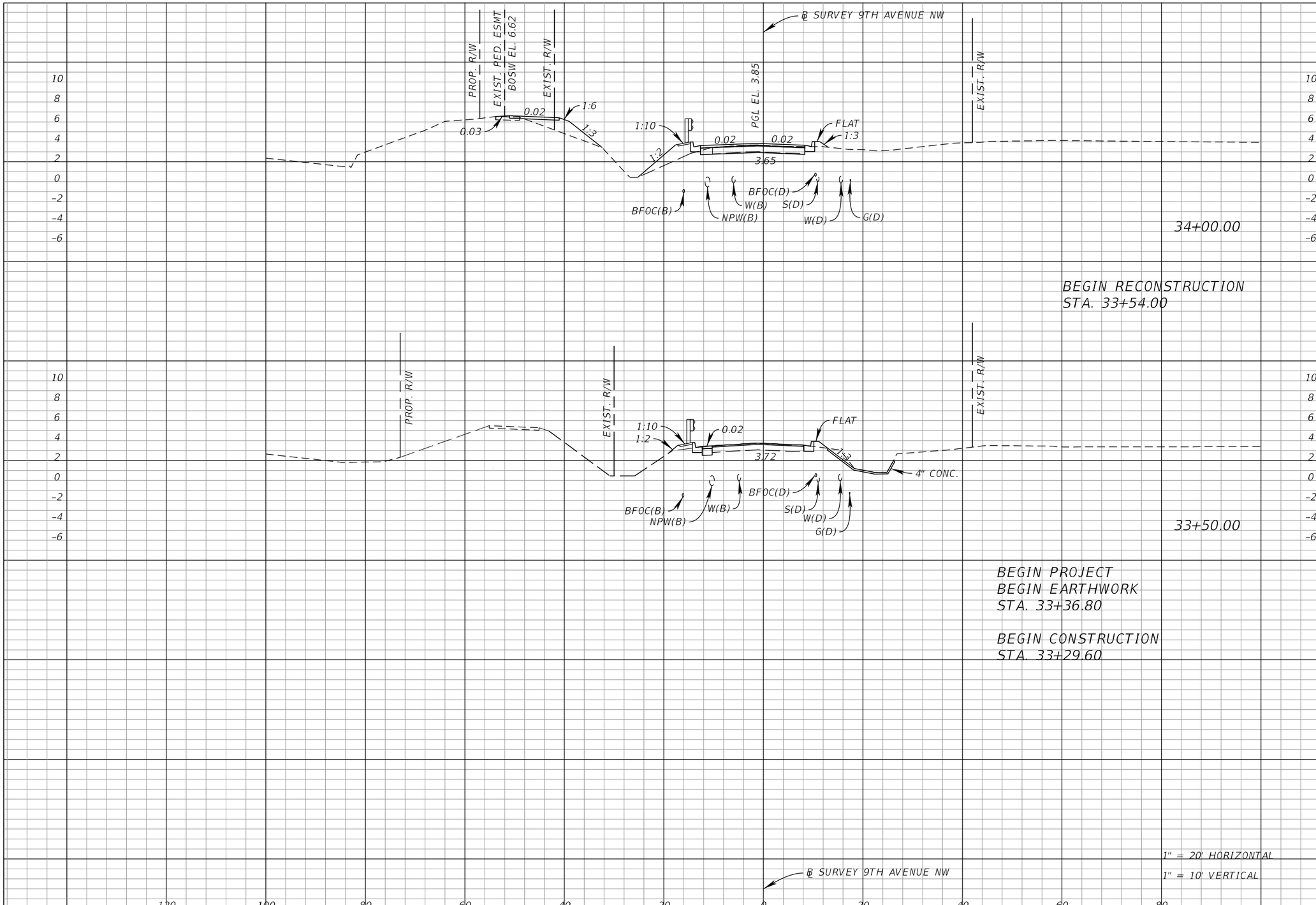

Subsoil Exc.		Regular Exc		Embankment	
A	V	A	V	A	V
0	0	4	7	23	23
0	0	4	4	2	2
0	0	0	0	0	0

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Manatee County FLORIDA

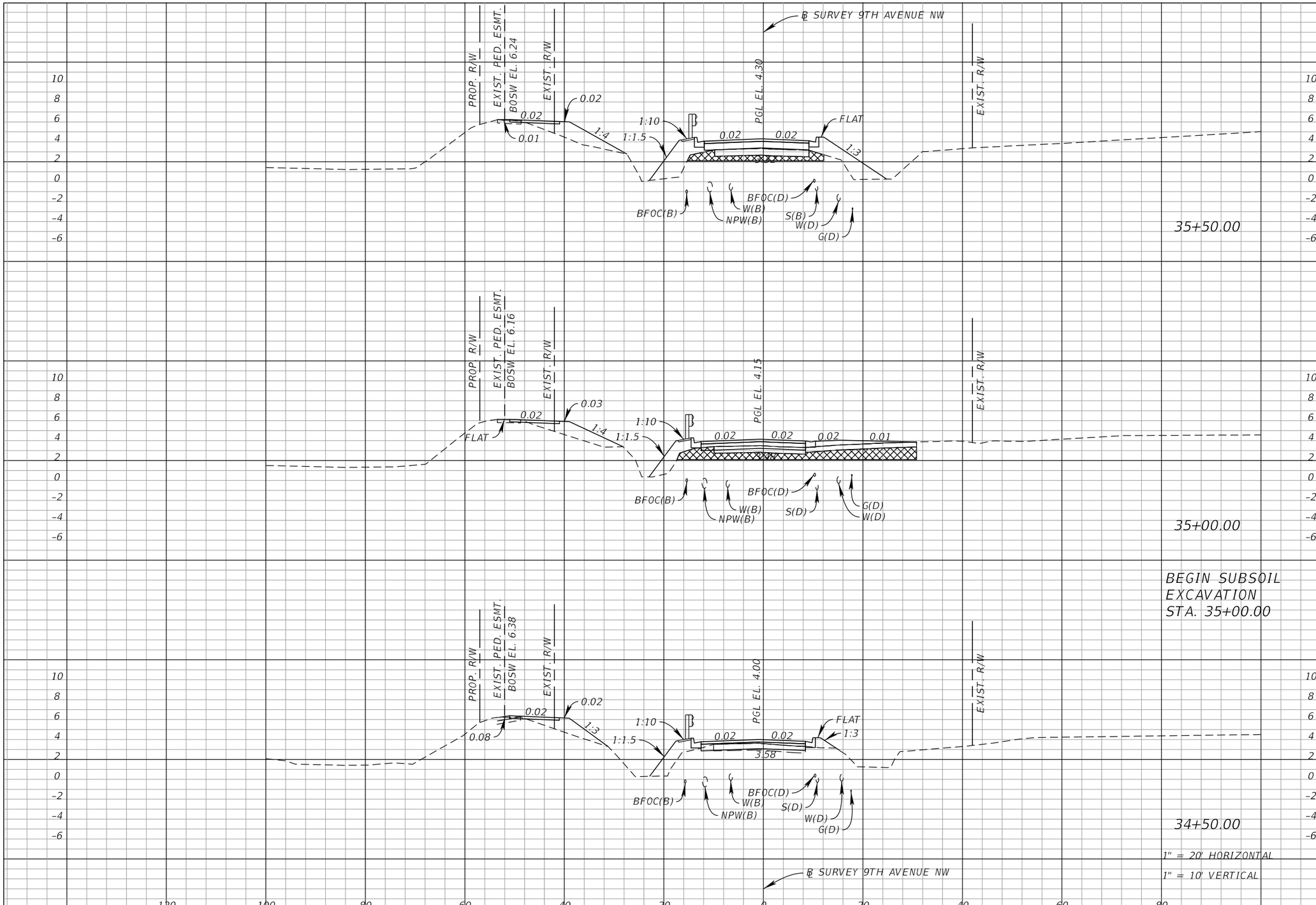
9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

9TH AVENUE NW CROSS SECTIONS

SHEET NUMBER 69



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
16	55	0	1	87	158
43	40	1	3	84	105
0	0	2	6	29	48

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Manatee County FLORIDA

9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

9TH AVENUE NW CROSS SECTIONS

SHEET NUMBER
70

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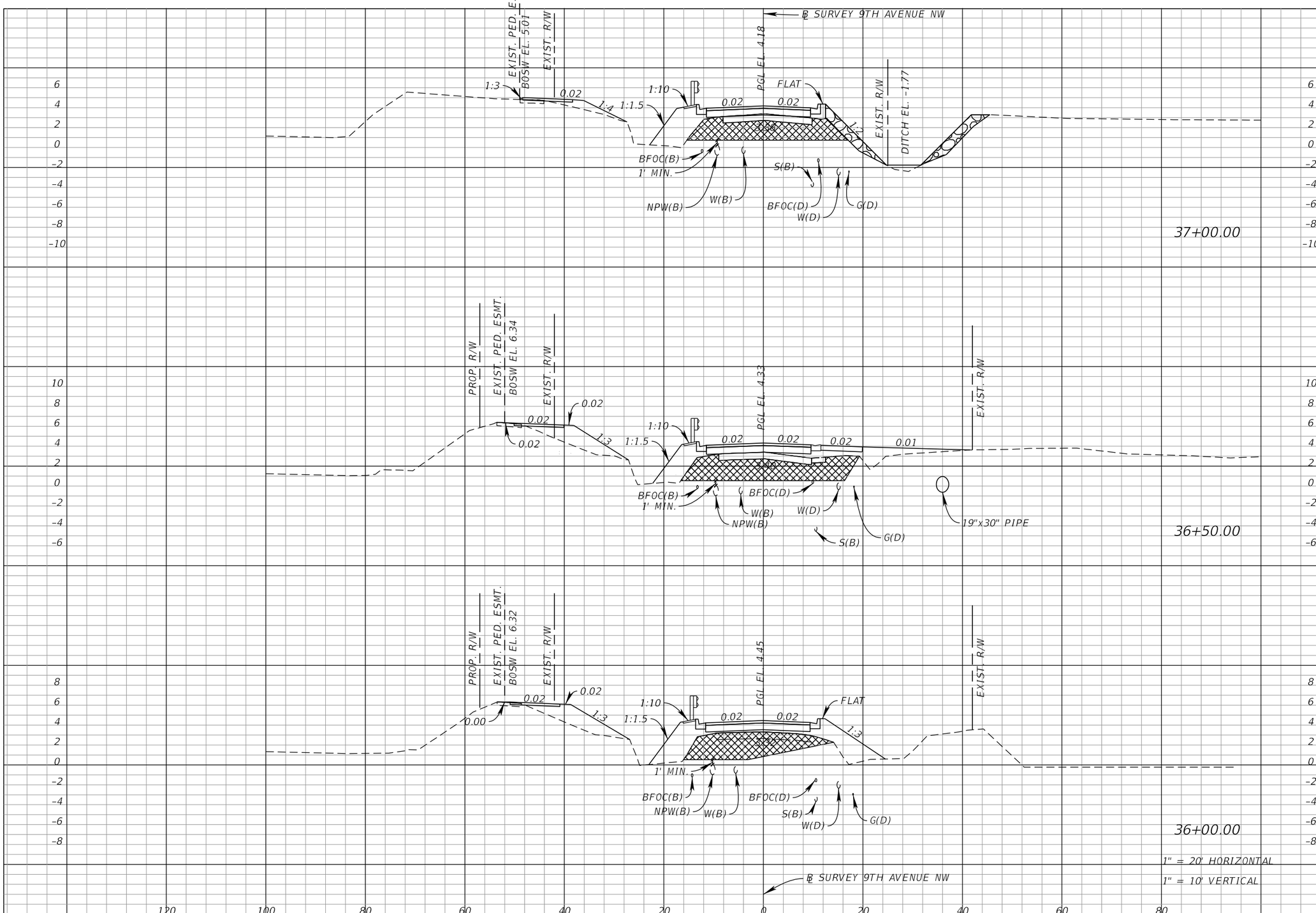

Subsoil Exc.		Regular Exc		Embankment	
A	V	A	V	A	V
56	117	0	0	65	198
70	119	0	0	149	275
58	69	0	0	148	218

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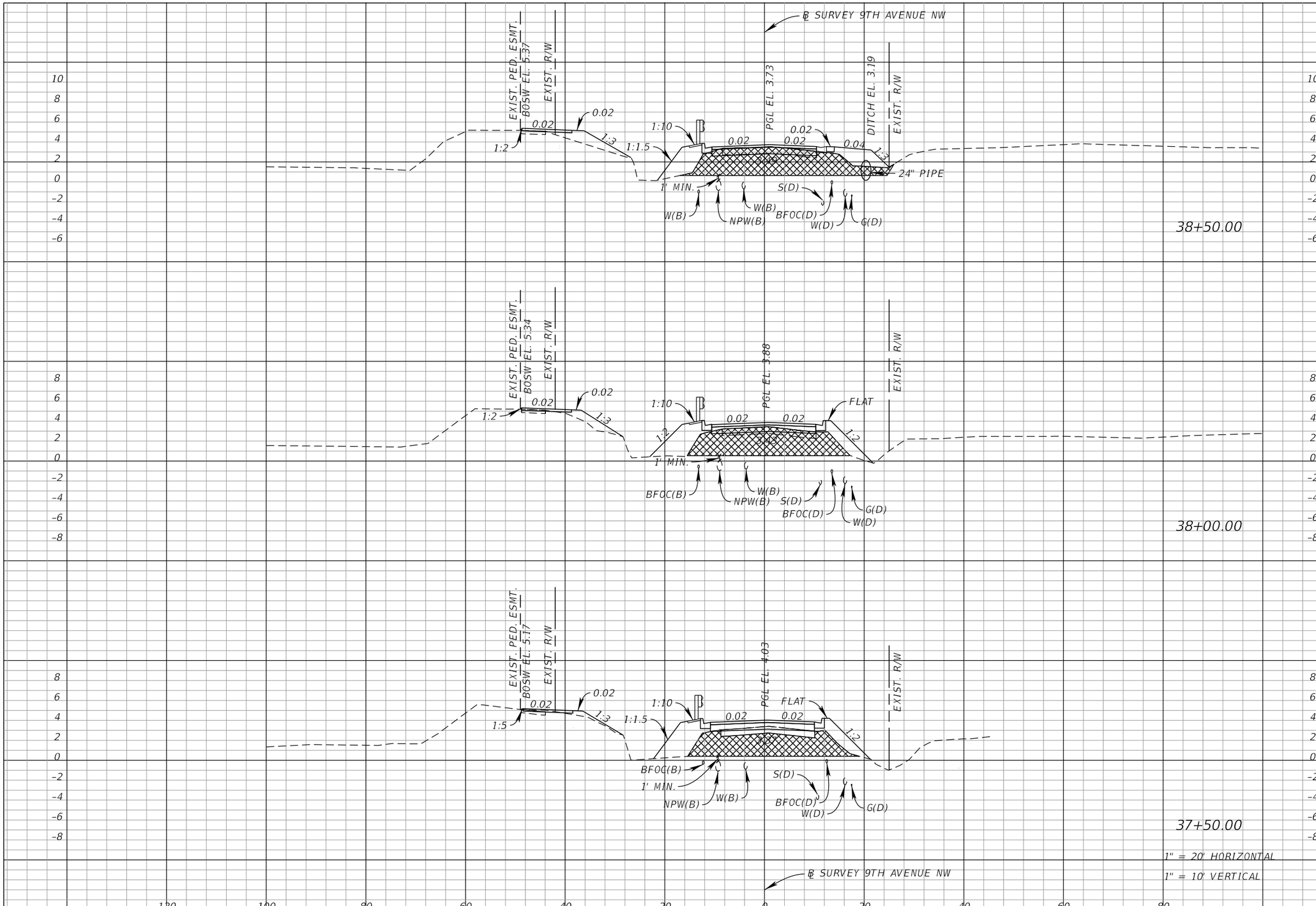
9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

9TH AVENUE NW CROSS SECTIONS

SHEET NUMBER
71



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
85	148	2	3	43	77
75	130	1	2	40	71
65	112	1	1	37	94

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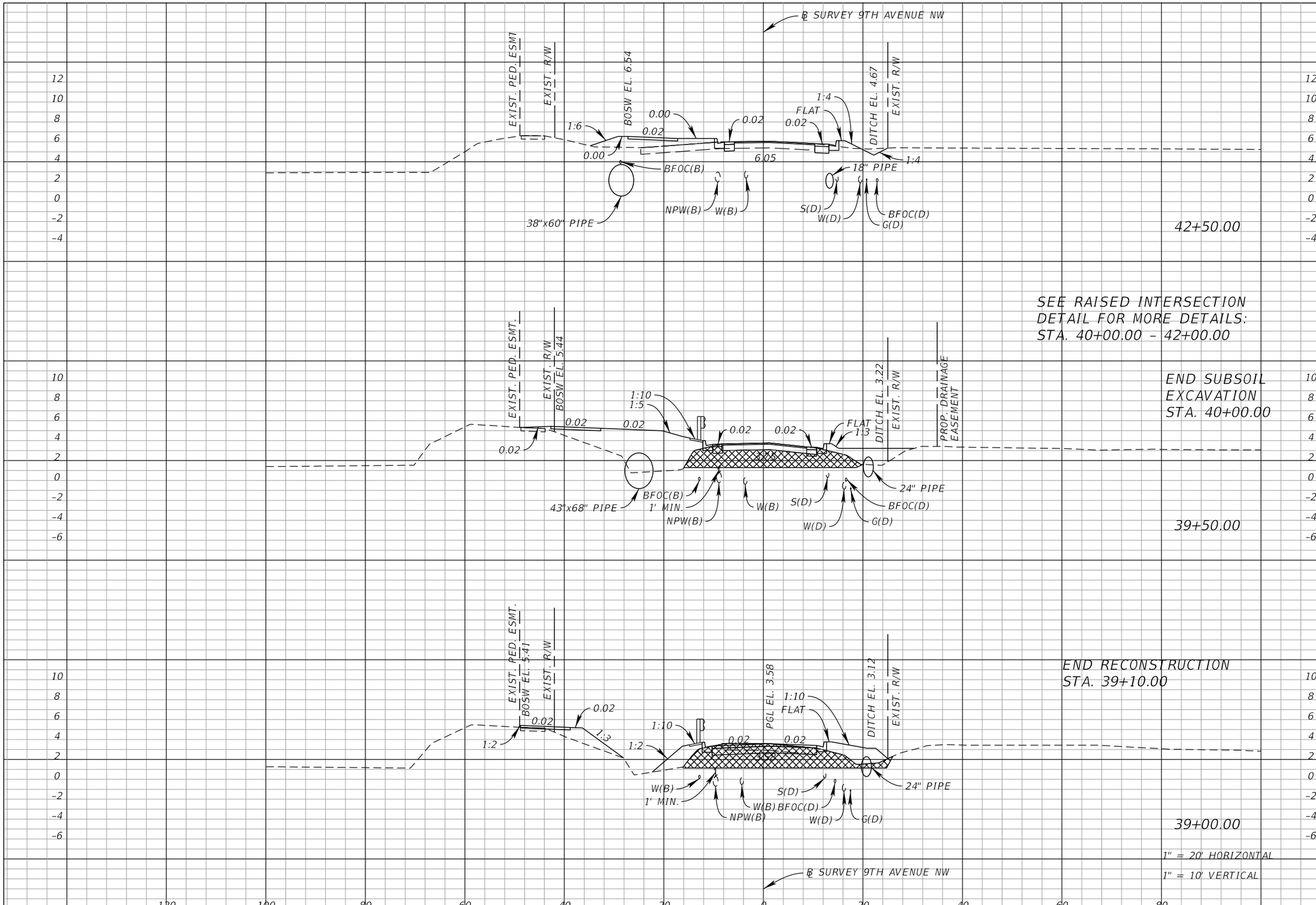
9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

9TH AVENUE NW CROSS SECTIONS

SHEET NUMBER 72



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0	0	6	16	30	45
0	0	11	0	19	0
0	68	6	8	76	157
56	119	3	3	94	123
73	146	0	2	39	76

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9TH AVENUE NW

MANATEE COUNTY FL

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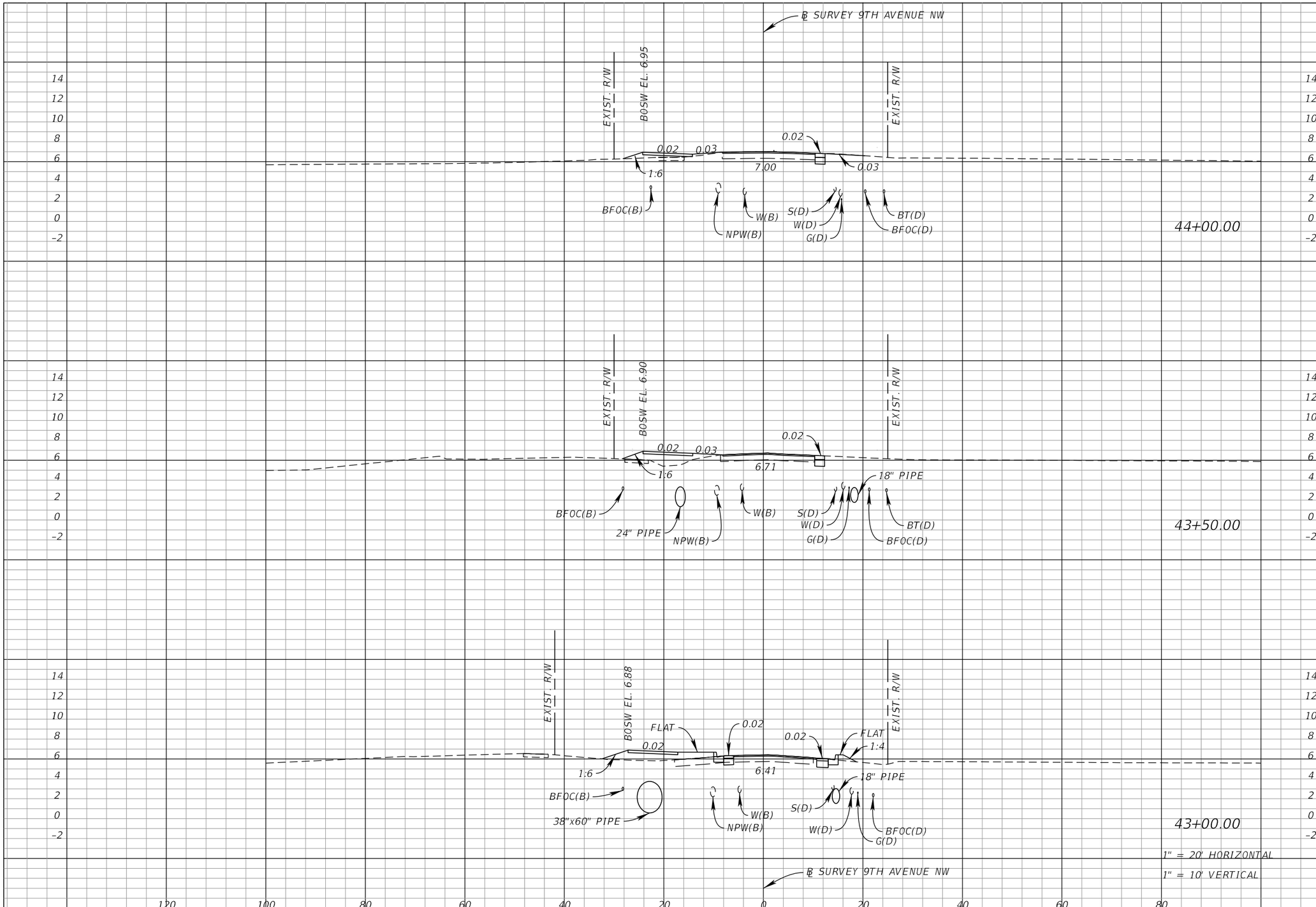
DATE:

9TH AVENUE NW CROSS SECTIONS

SHEET NUMBER 73



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0	0	2	4	5	18
0	0	2	6	14	33
0	0	4	9	22	48

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9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
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FL LICENSE NUMBER 76102
DATE:

9TH AVENUE NW CROSS SECTIONS

SHEET NUMBER 74

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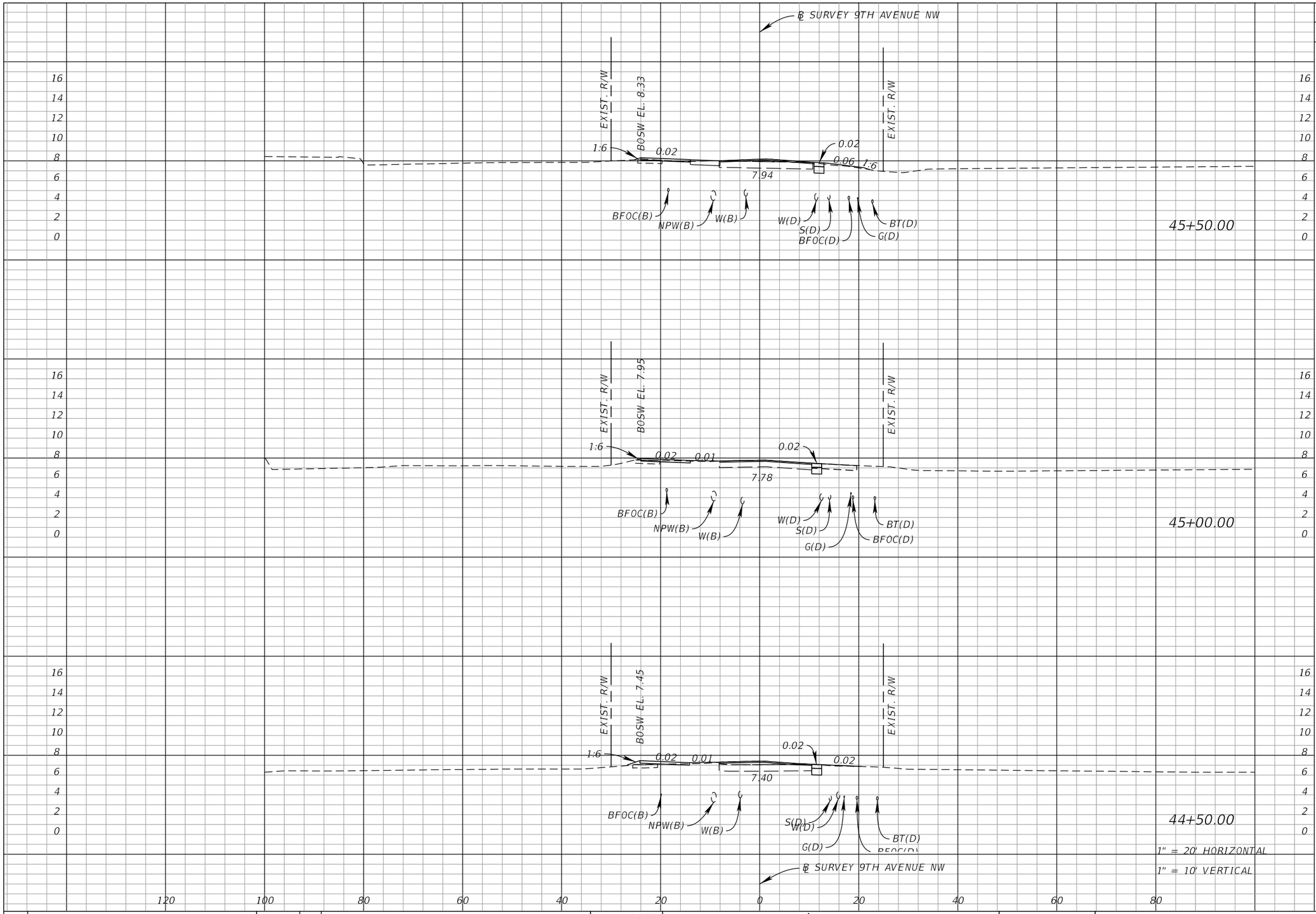

Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0	0	5	6	2	4
0	0	2	4	2	5
0	0	2	4	3	7

No.	REVISIONS	DATE	BY

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9TH AVENUE NW

MANATEE COUNTY FL

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FL LICENSE NUMBER 76102
DATE:

9TH AVENUE NW CROSS SECTIONS

SHEET NUMBER 75

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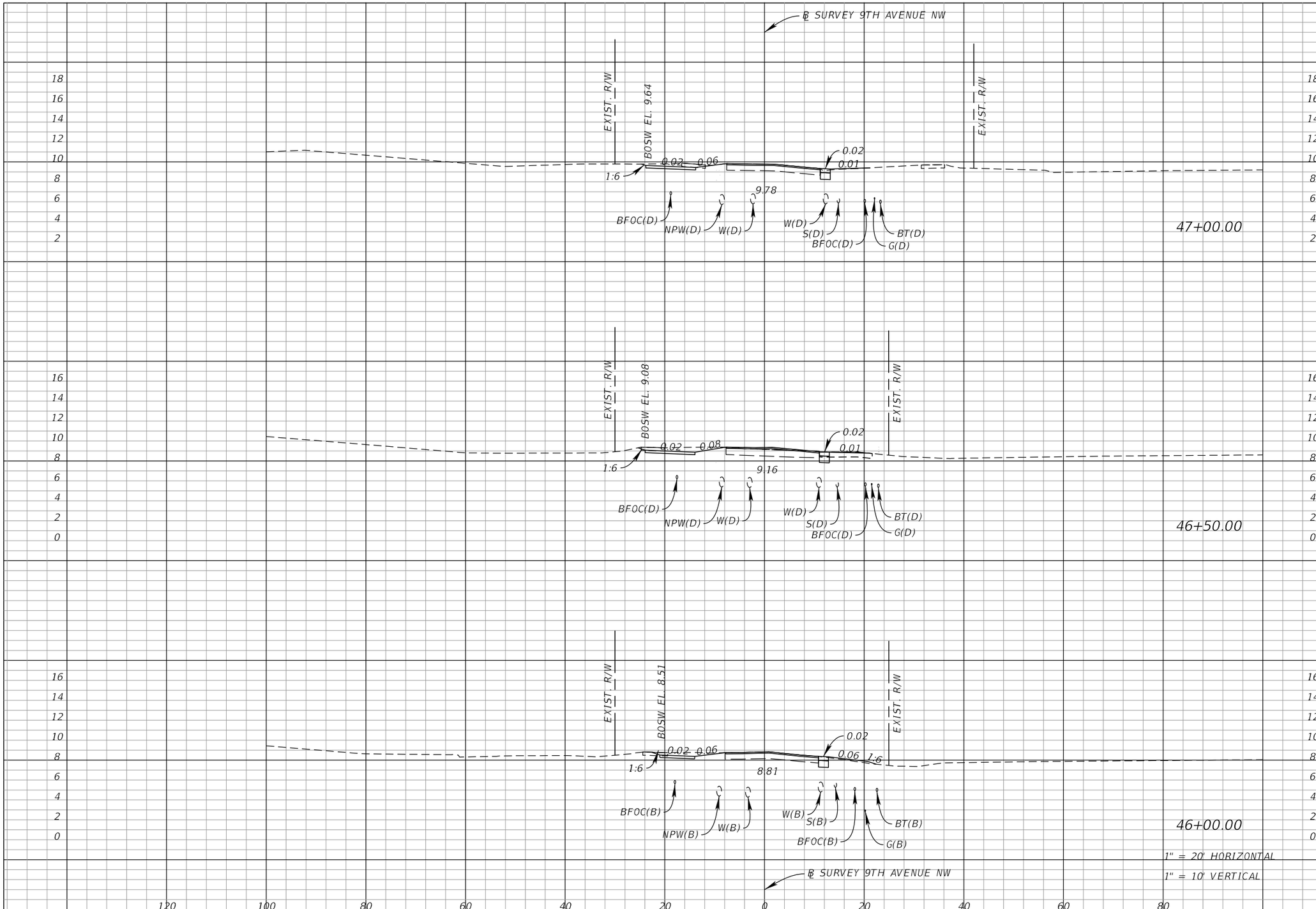

Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0	0	4	8	0	0
0	0	5	9	0	2
0	0	5	9	2	4

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No.	REVISIONS	DATE	BY

Kimley»Horn

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1800 SECOND STREET, SUITE 900, SARASOTA, FL 34236
PHONE: 941-379-7600
WWW.KIMLEY-HORN.COM

KHA PROJECT 148400070
DATE 10/02/2025
SCALE AS SHOWN
DESIGNED BY JNR
DRAWN BY JRW
CHECKED BY JEL

Manatee County FLORIDA

9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

9TH AVENUE NW CROSS SECTIONS

SHEET NUMBER 76

Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0	0	3	5	0	1
0	0	2	4	1	5
0	0	2	6	4	4

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DATE 10/02/2025
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CHECKED BY JEL

Manatee County FLORIDA

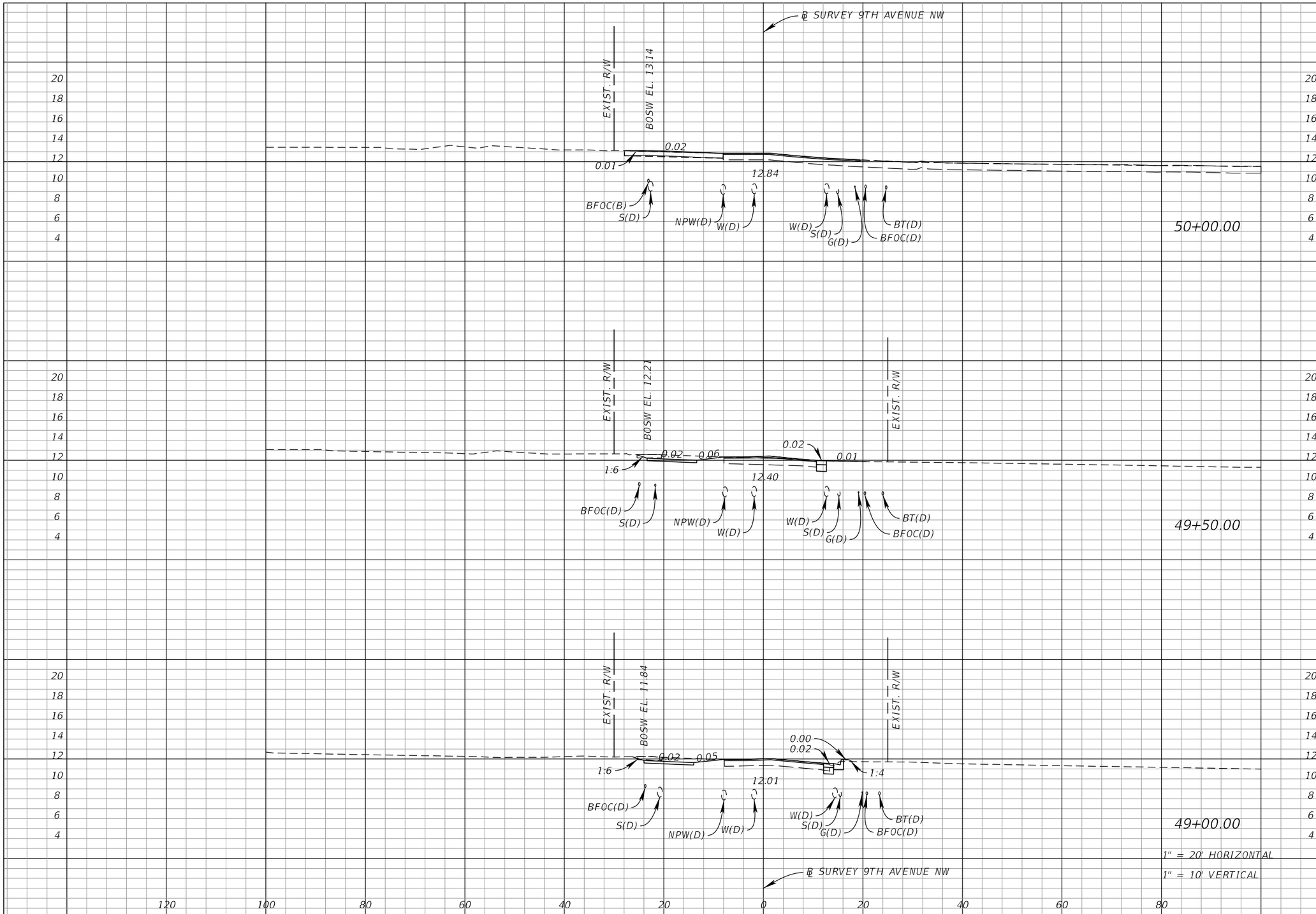
9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

9TH AVENUE NW CROSS SECTIONS

SHEET NUMBER
77



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0	0	0	6	1	1
0	0	6	12	0	1
0	0	7	9	1	1

No.	REVISIONS	DATE	BY

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Manatee County FLORIDA

9TH AVENUE NW

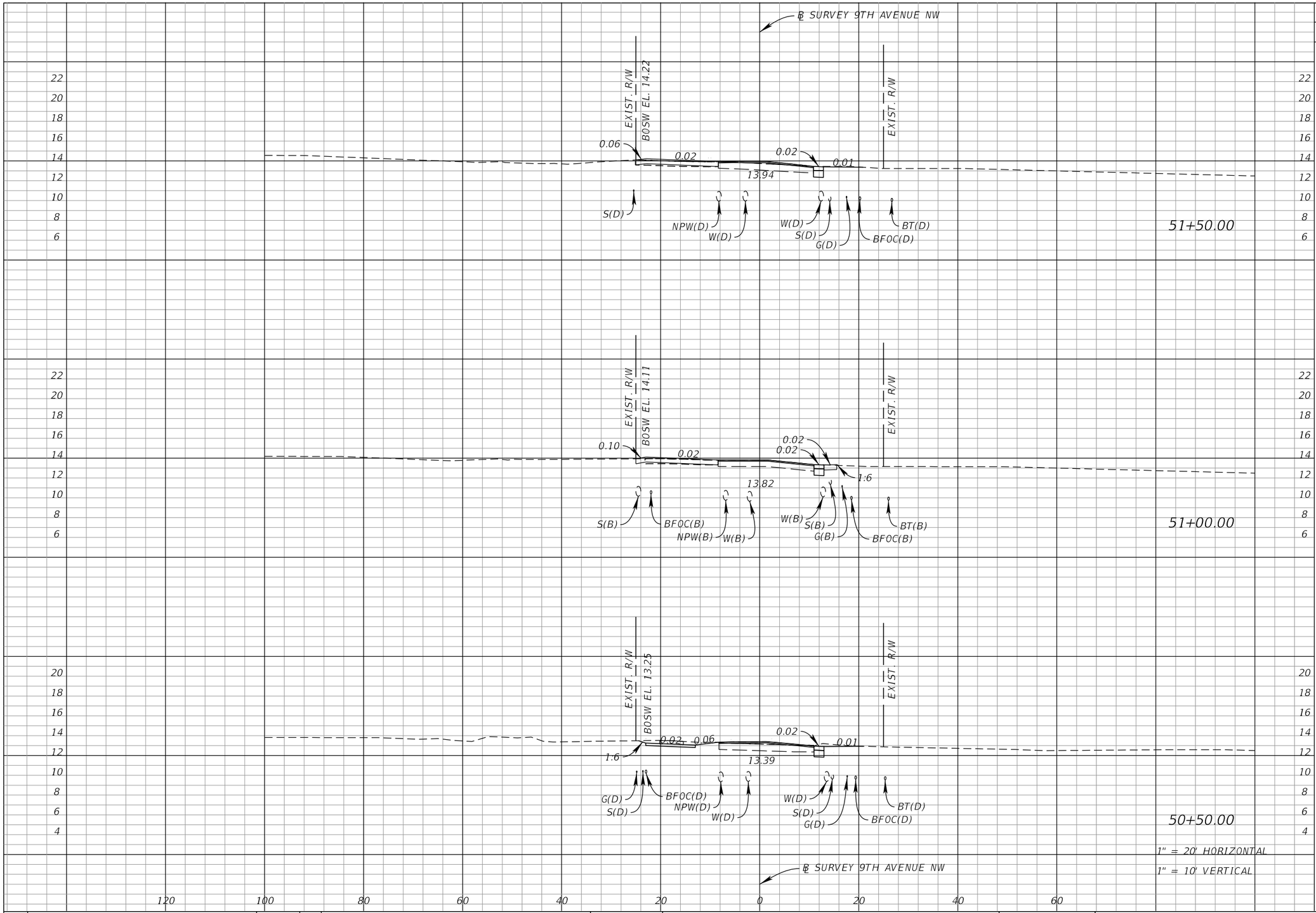
MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

9TH AVENUE NW CROSS SECTIONS

SHEET NUMBER 78

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



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0	0	2	5	2	3
0	0	3	8	1	1
0	0	6	6	0	1

No.	REVISIONS	DATE	BY

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Manatee County FLORIDA

9TH AVENUE NW

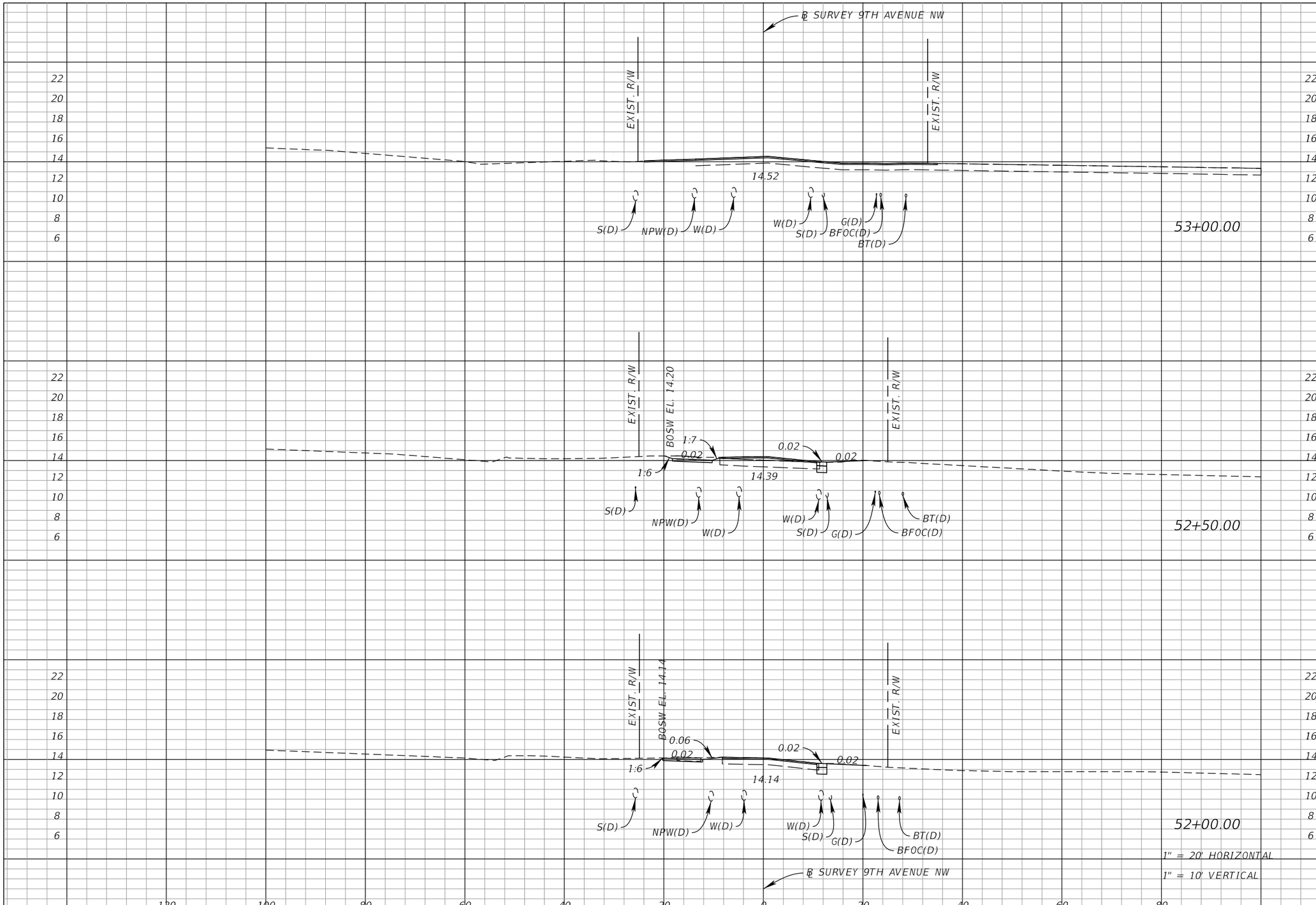
MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

9TH AVENUE NW CROSS SECTIONS

SHEET NUMBER 79

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



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0	0	0	3	0	0
0	0	3	6	0	0
0	0	3	5	0	2

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Manatee County FLORIDA

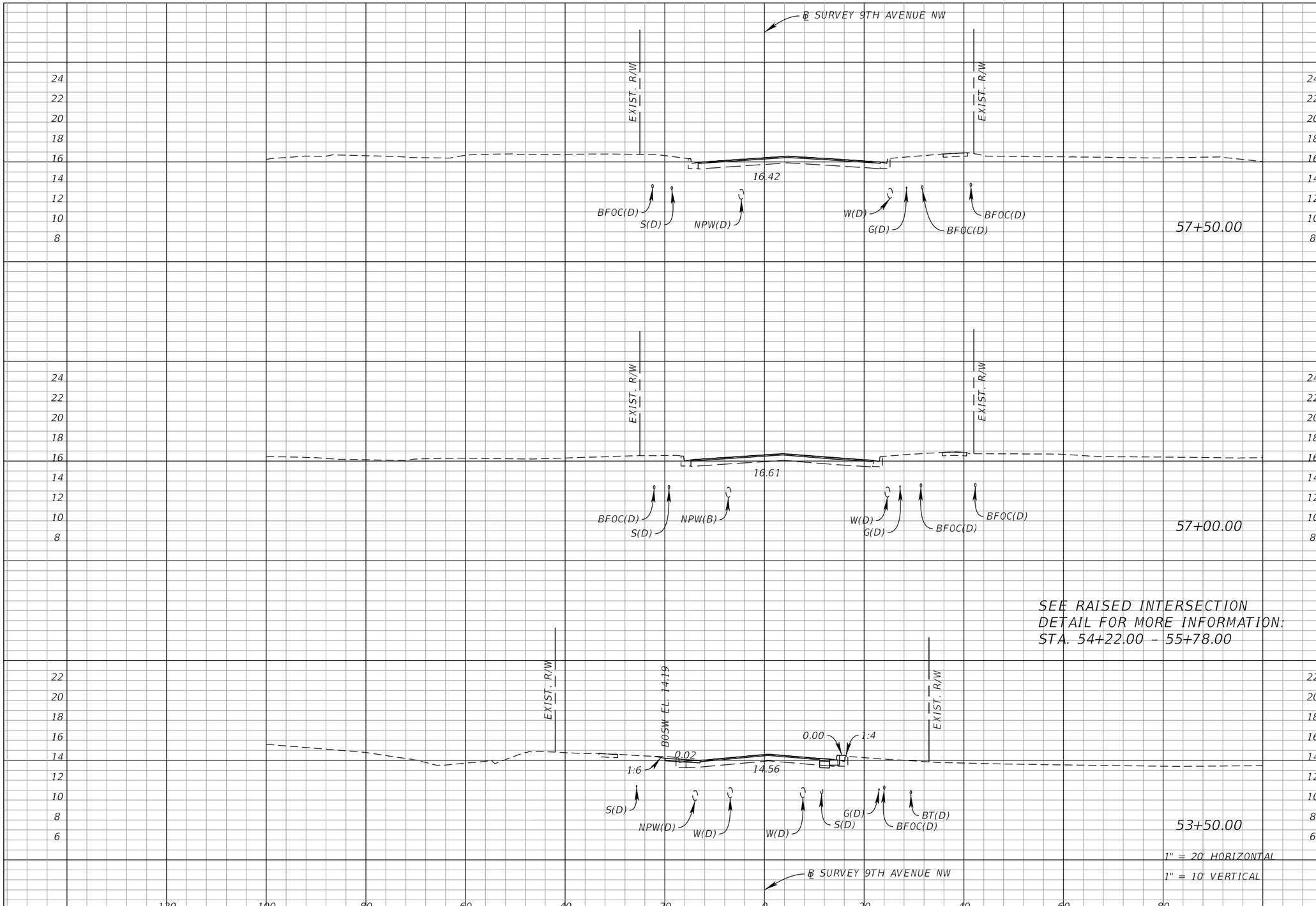
9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

9TH AVENUE NW CROSS SECTIONS

SHEET NUMBER
80



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0	0	0	0	0	0
0	0	0	6	0	6
0	0	7	0	6	0
0	0	6	7	8	11
0	0	2	2	4	4

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Manatee County FLORIDA

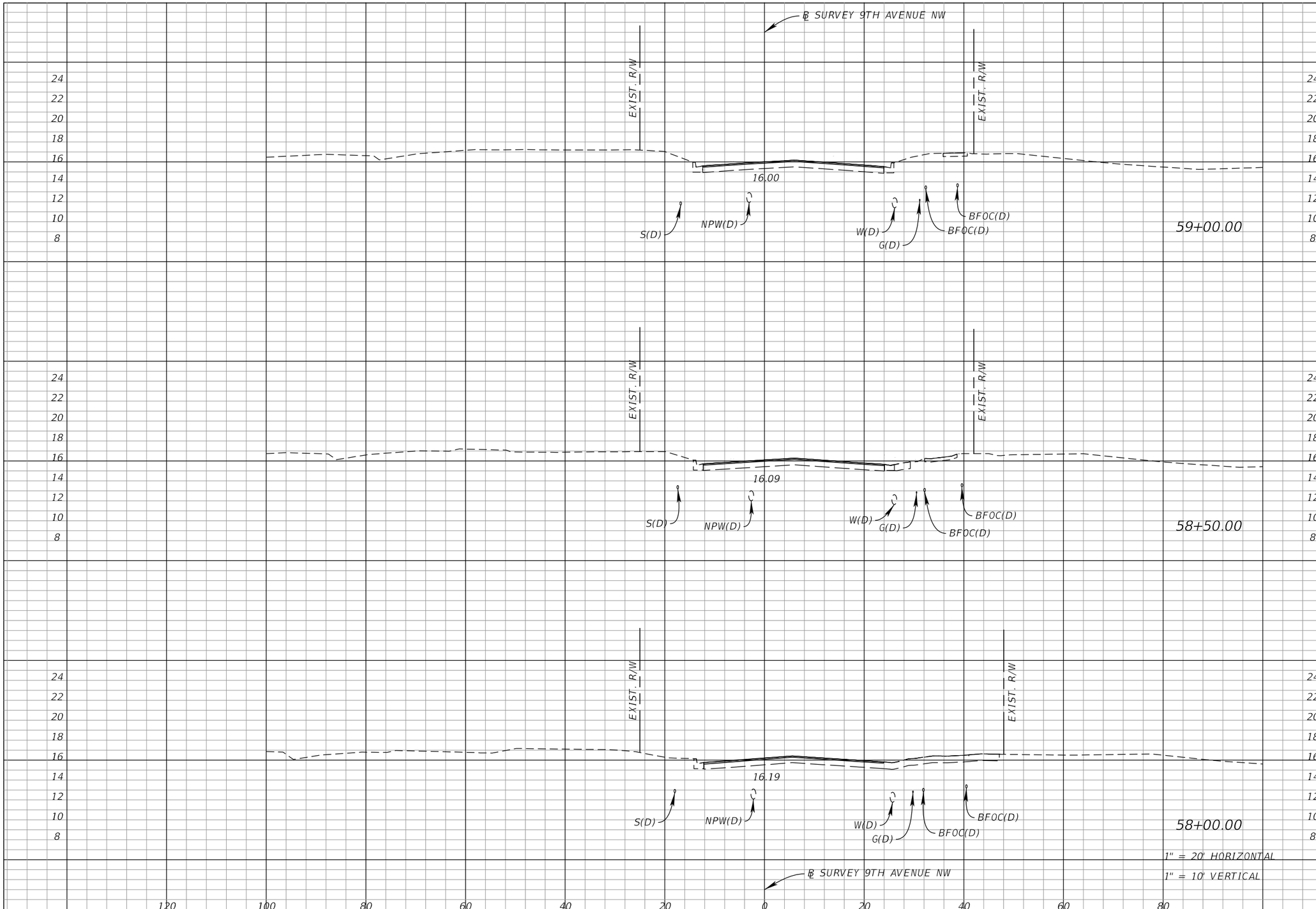
9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

9TH AVENUE NW CROSS SECTIONS

SHEET NUMBER
81



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

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Manatee County FLORIDA

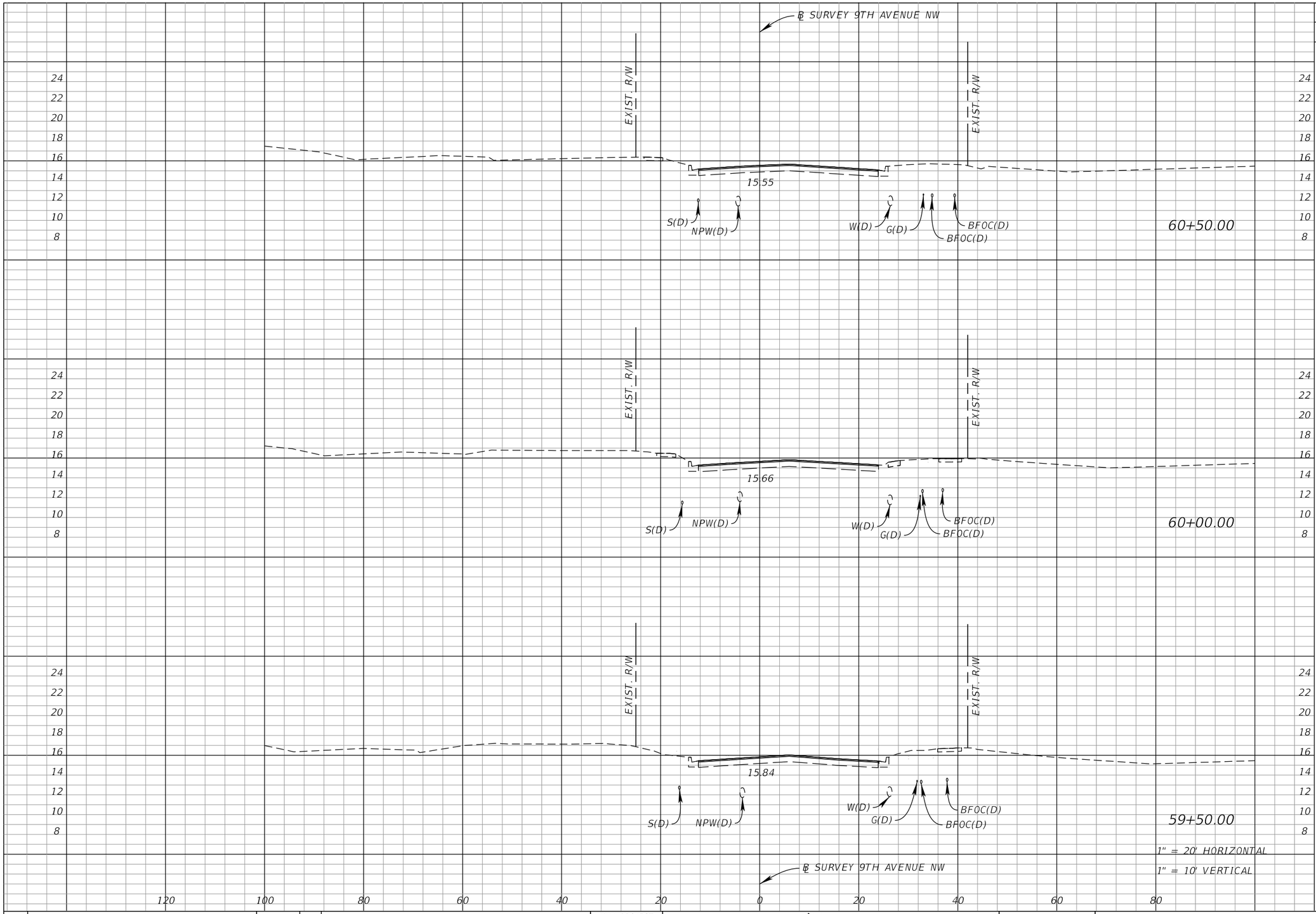
9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

9TH AVENUE NW CROSS SECTIONS

SHEET NUMBER 82



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

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Manatee County FLORIDA

9TH AVENUE NW

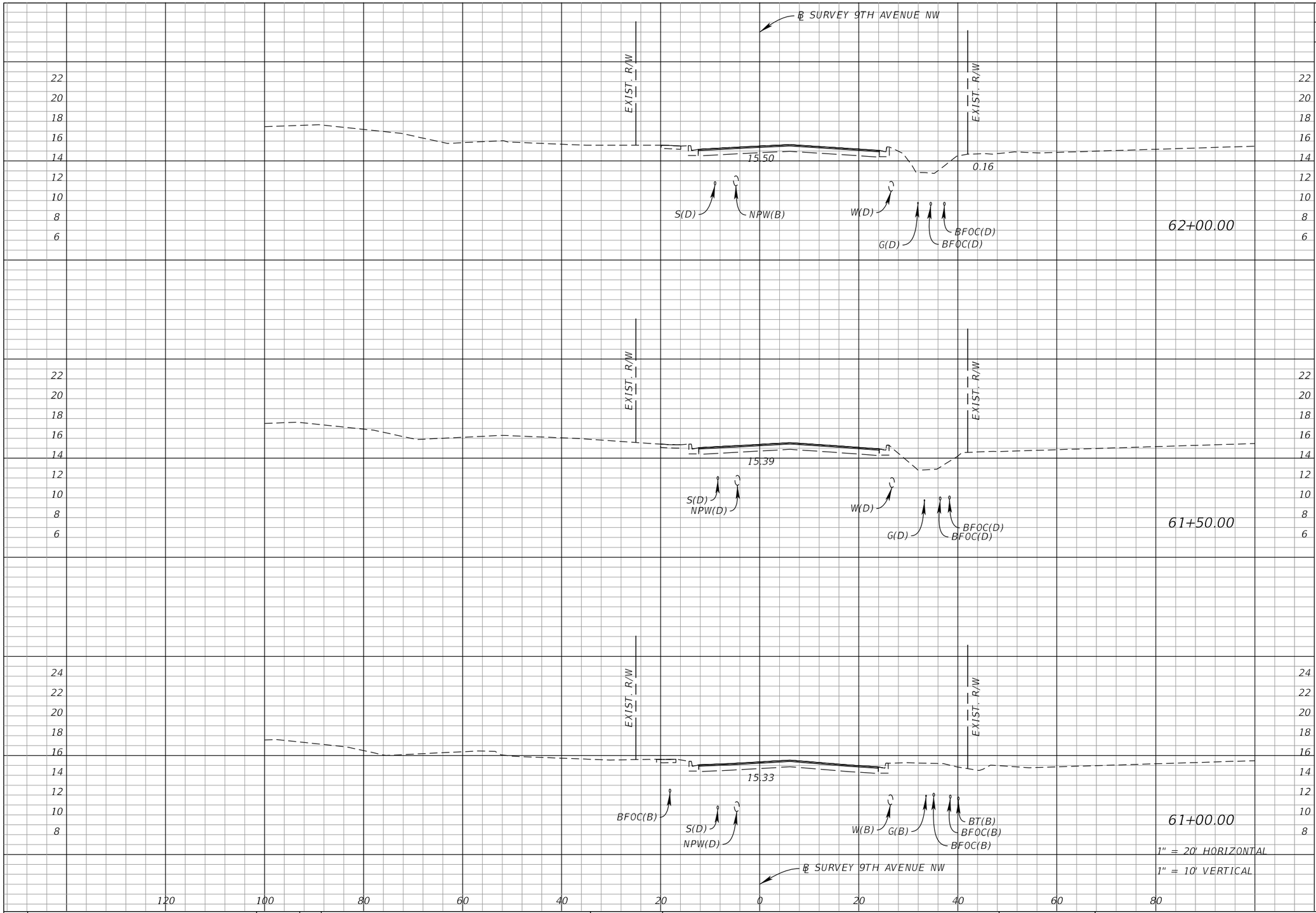
MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

9TH AVENUE NW CROSS SECTIONS

SHEET NUMBER 83

Seth.Kline 10/2/2025 11:44:50 AM Rdxsrd_shg K:\SAR_Roadway\148400070_9thAve\148400070\roadway\RDXSRD03.dgn



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

No.	REVISIONS	DATE	BY

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Manatee County FLORIDA

9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

9TH AVENUE NW CROSS SECTIONS

SHEET NUMBER 84

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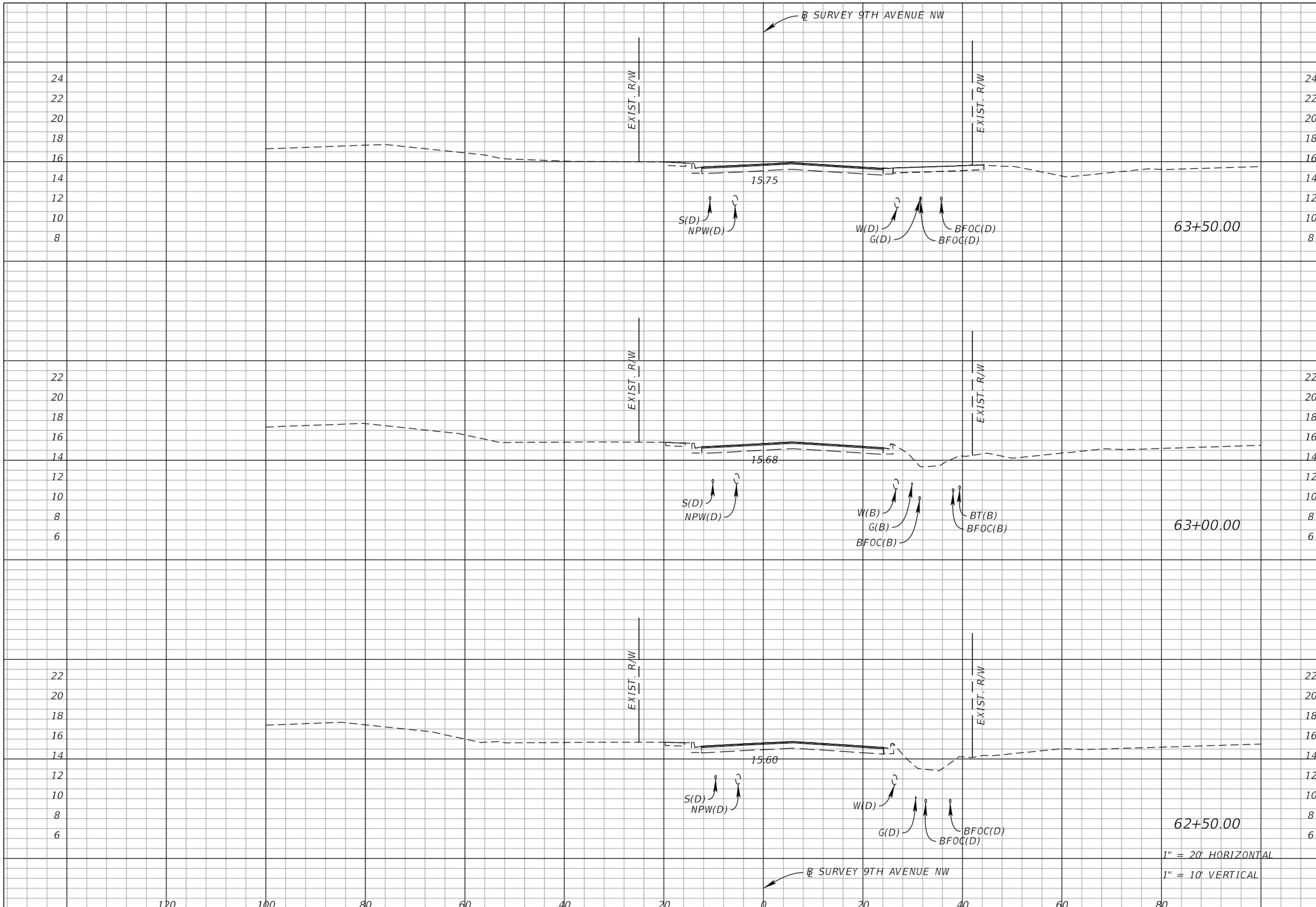

Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0

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Manatee County FLORIDA

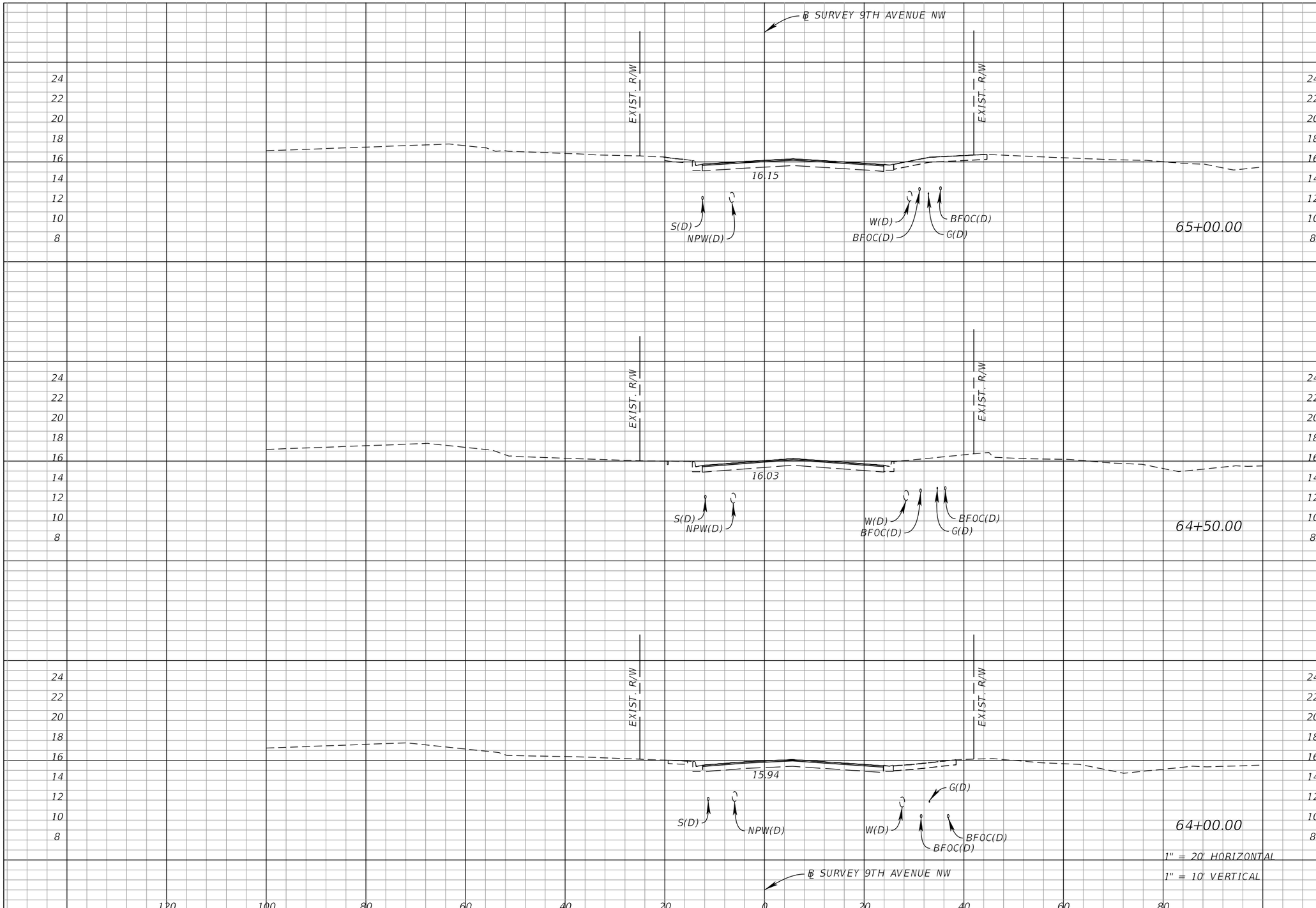
9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

9TH AVENUE NW CROSS SECTIONS

SHEET NUMBER
85



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

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DATE 10/02/2025
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Manatee County FLORIDA

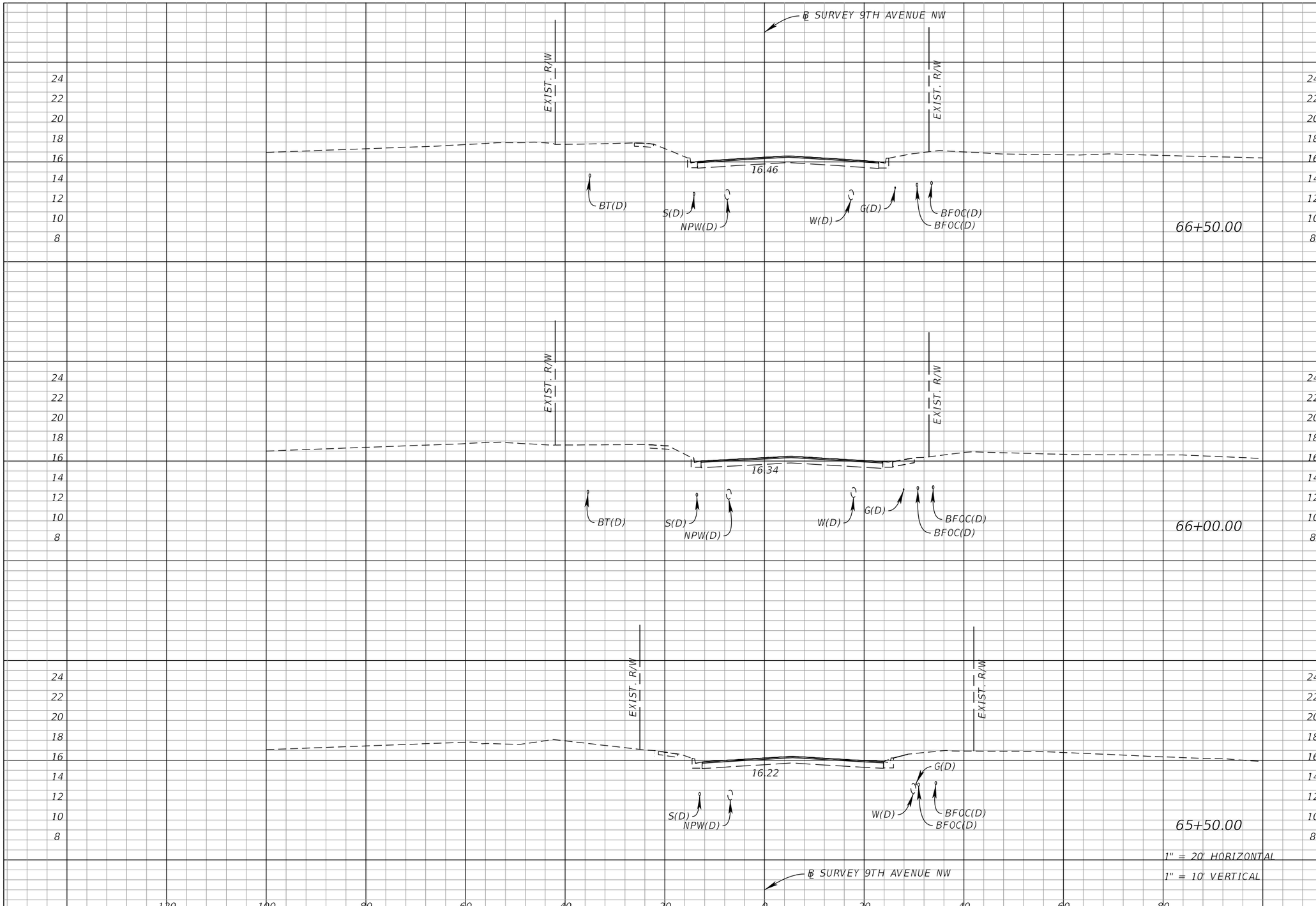
9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

9TH AVENUE NW CROSS SECTIONS

SHEET NUMBER 86



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

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Manatee County FLORIDA

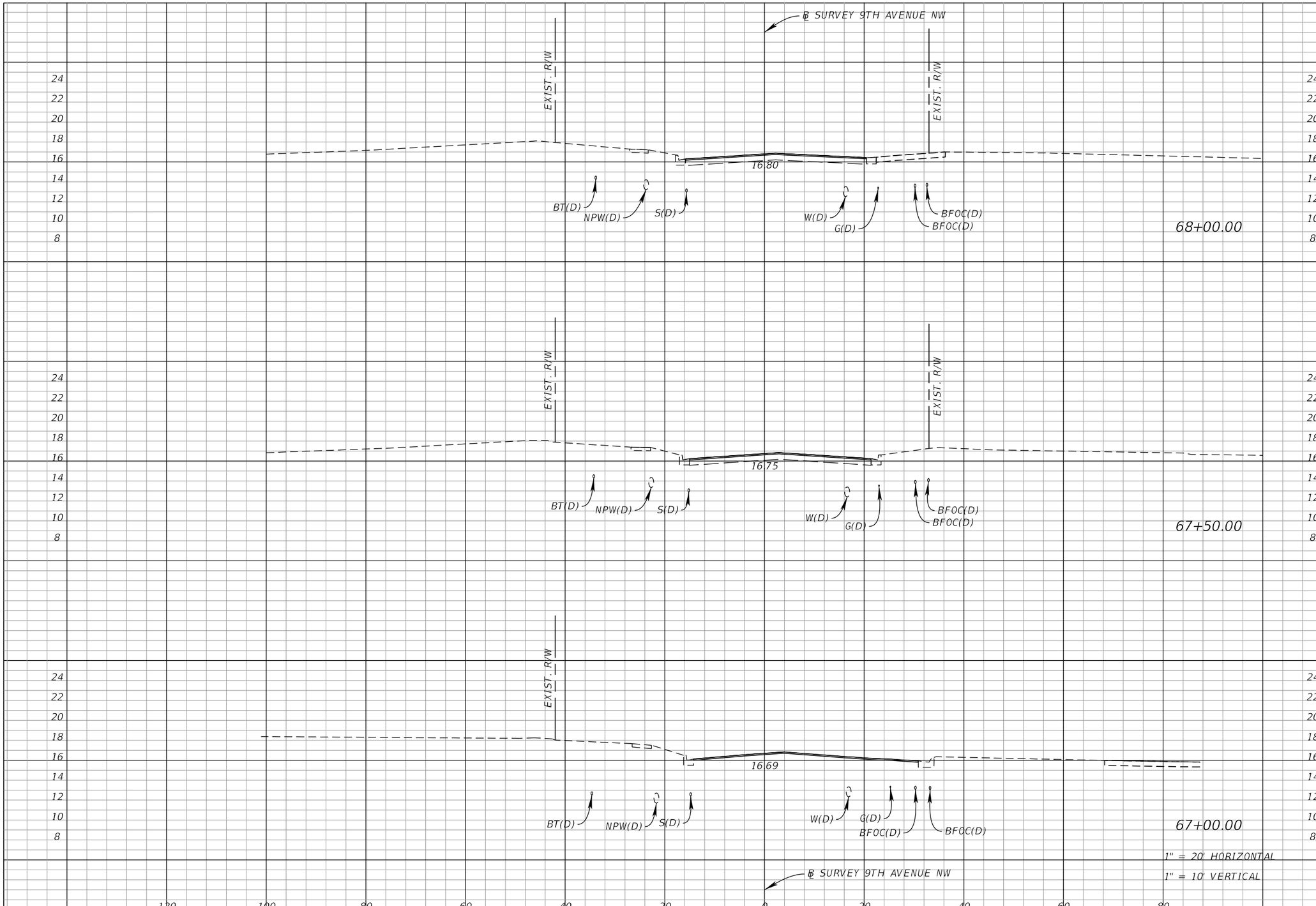
9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

9TH AVENUE NW CROSS SECTIONS

SHEET NUMBER 87



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

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Manatee County FLORIDA

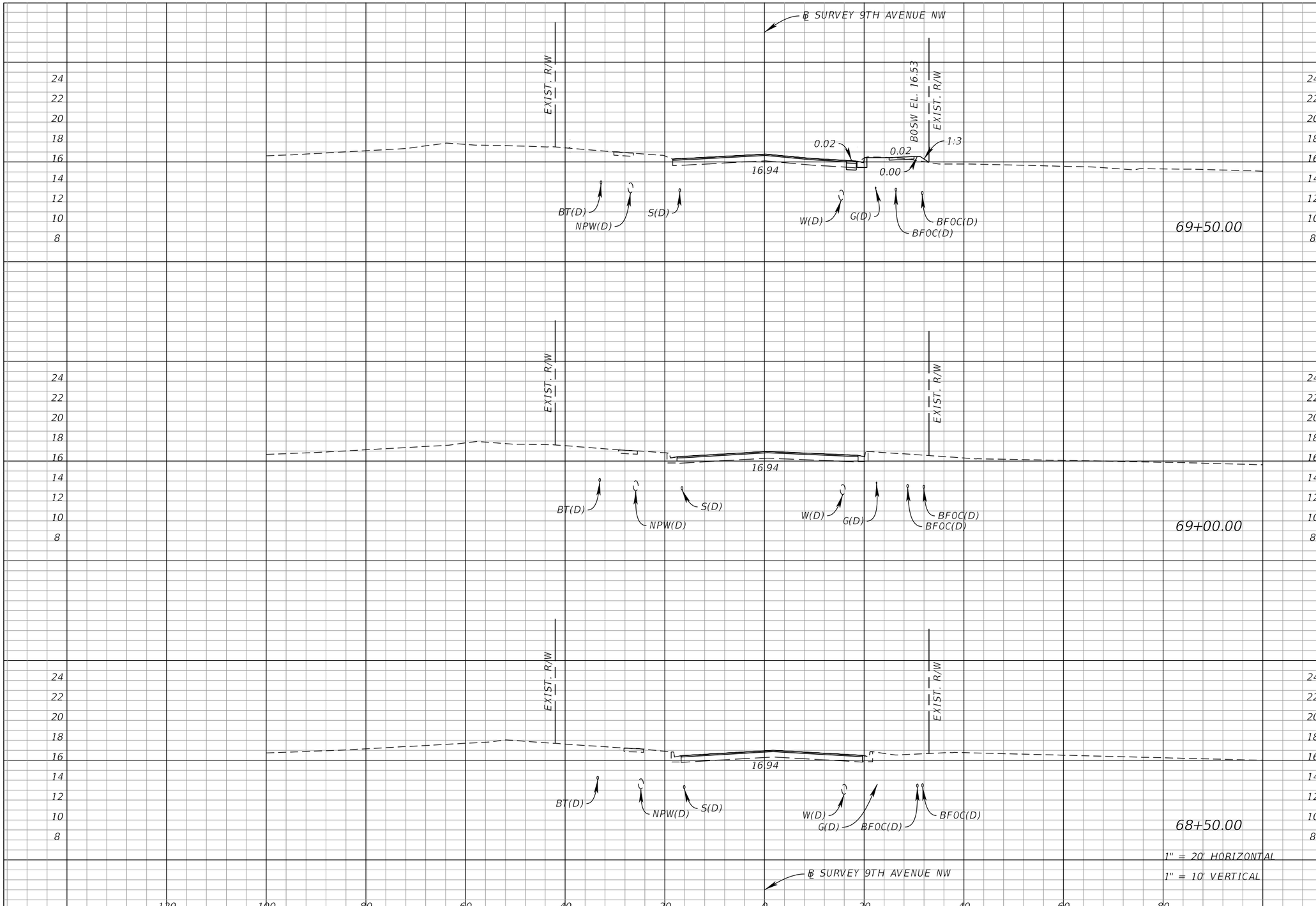
9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

9TH AVENUE NW CROSS SECTIONS

SHEET NUMBER 88



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

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Manatee County FLORIDA

9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

9TH AVENUE NW CROSS SECTIONS

SHEET NUMBER
89

SUMMARY OF EARTHWORK ROADWAY		
DESCRIPTION	CY	
	P	F
EXCAVATION	213	
EMBANKMENT	1851	
SUBSOIL EXCACATION	1123	

END PROJECT
END CONSTRUCTION
END EARTHWORK
STA. 119+35.87

Subsoil Exc.		Regular Exc		Embankment	
A	V	A	V	A	V
0	0	0	0	0	4
0	0	0	1	4	8
0	0	1	4	5	6

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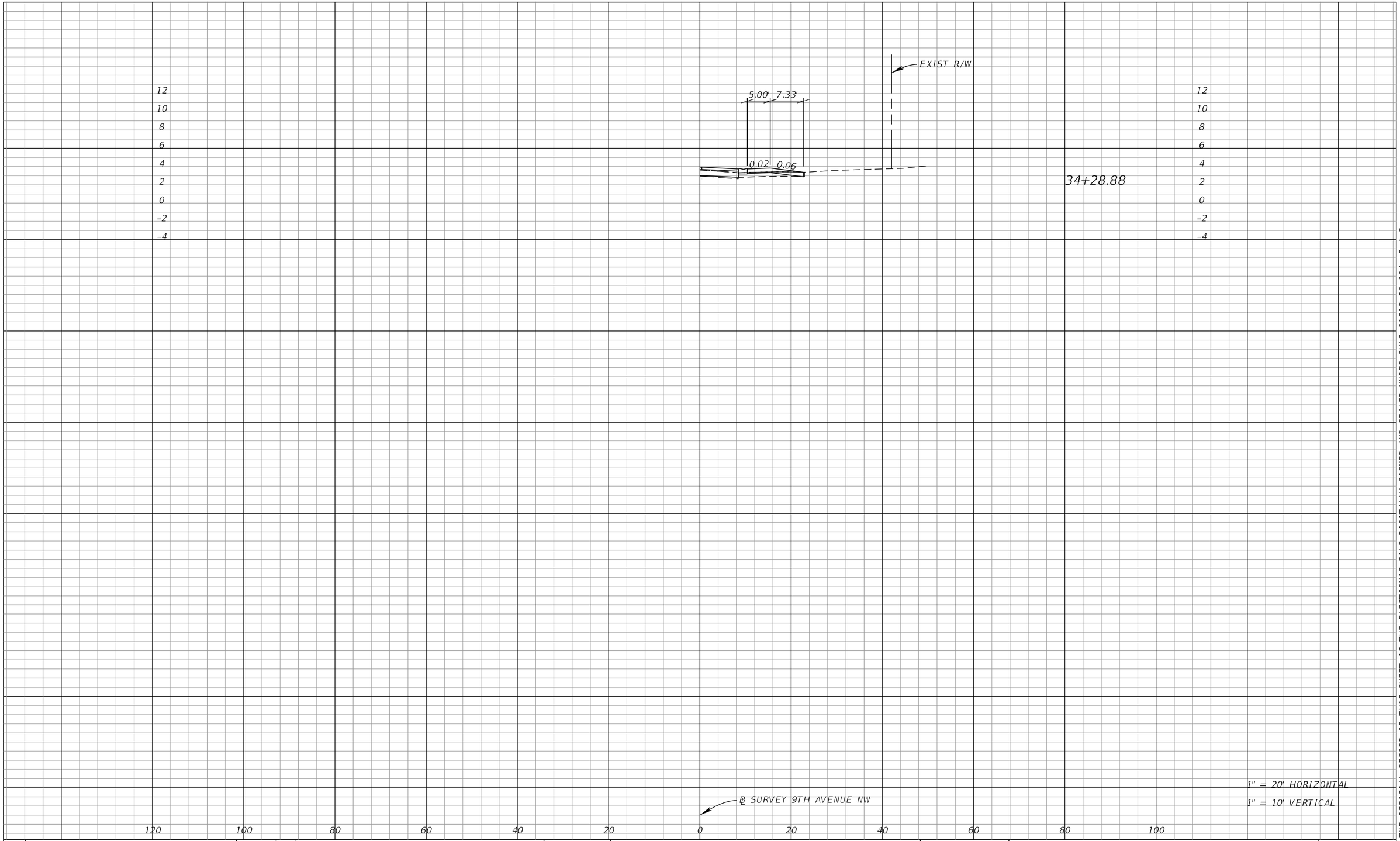
9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

9TH AVENUE NW CROSS SECTIONS

SHEET NUMBER
90



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DRAWN BY
CHECKED BY

Manatee County FLORIDA

9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

DRIVEWAY HALF SECTIONS 9TH AVENUE NW

SHEET NUMBER
91

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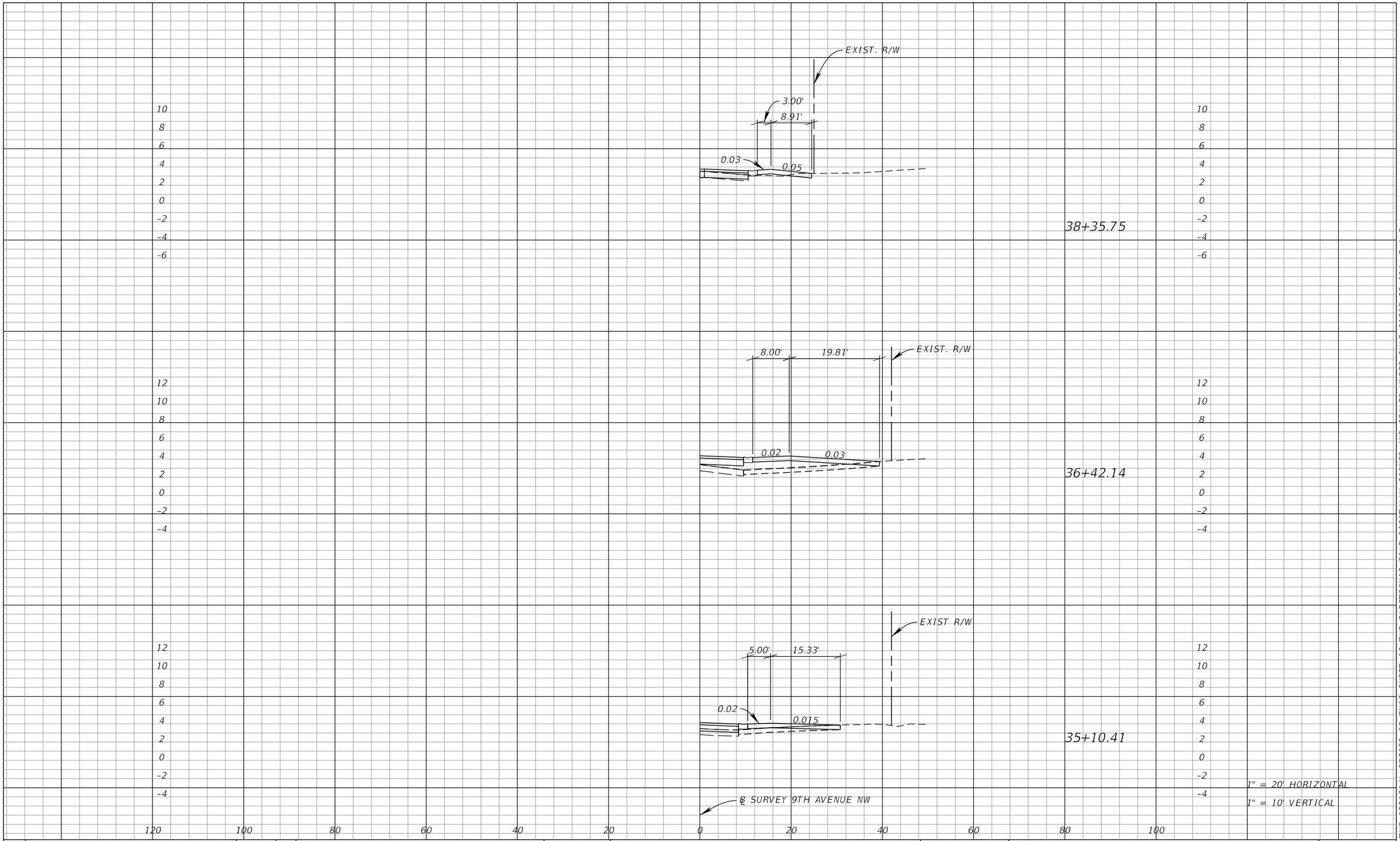

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DRAWN BY
CHECKED BY

Manatee County FLORIDA

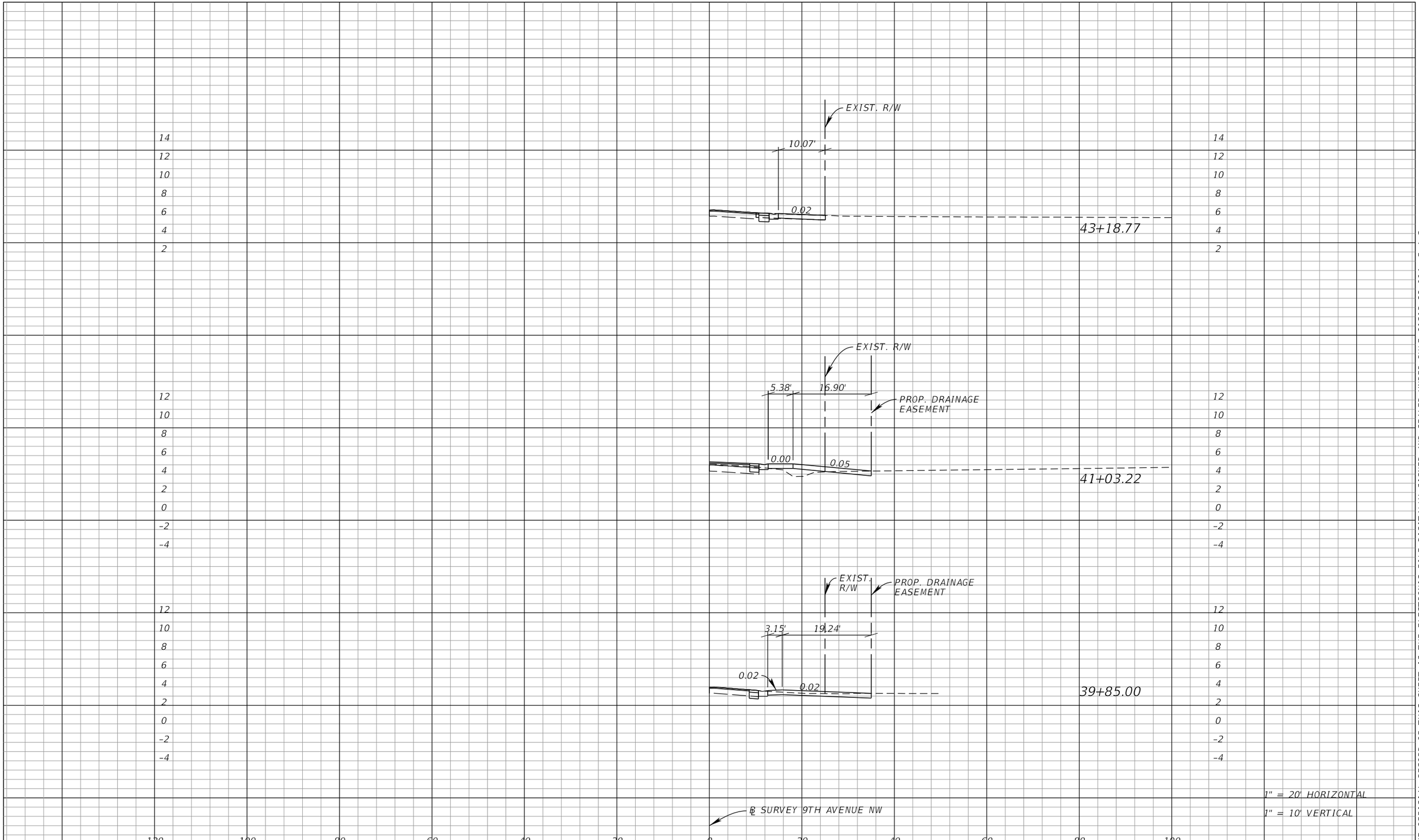
9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

DRIVEWAY HALF SECTIONS 9TH AVENUE NW

SHEET NUMBER
92



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Manatee County FLORIDA

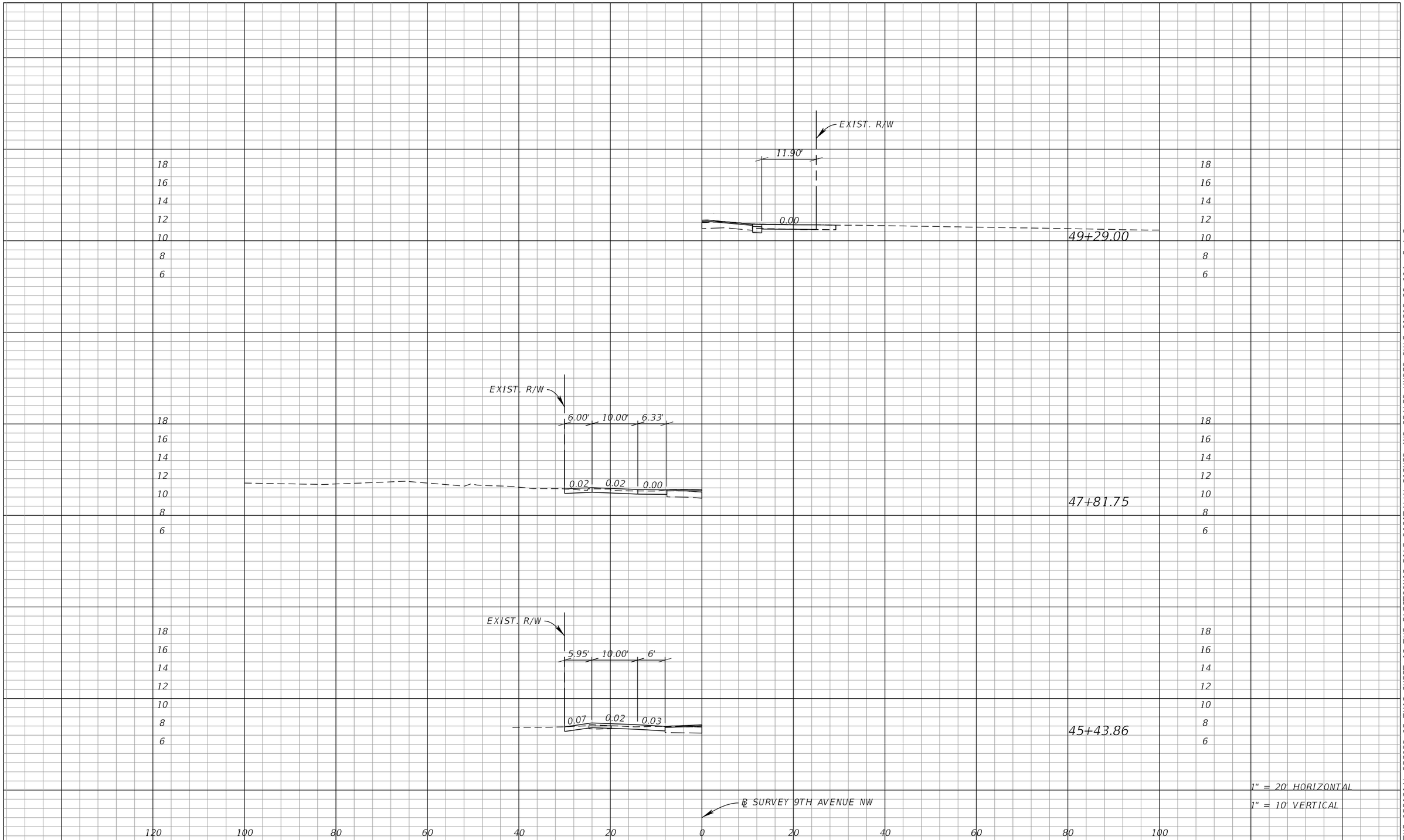
9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

DRIVEWAY HALF SECTIONS 9TH AVENUE NW

SHEET NUMBER
93



1" = 20' HORIZONTAL
1" = 10' VERTICAL

No.	REVISIONS	DATE	BY

Kimley»Horn

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PHONE: 941-379-7600
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KHA PROJECT 148400070
DATE 10/02/2025
SCALE AS SHOWN
DESIGNED BY
DRAWN BY
CHECKED BY

Manatee County FLORIDA

9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

DRIVEWAY HALF SECTIONS 9TH AVENUE NW

SHEET NUMBER
94

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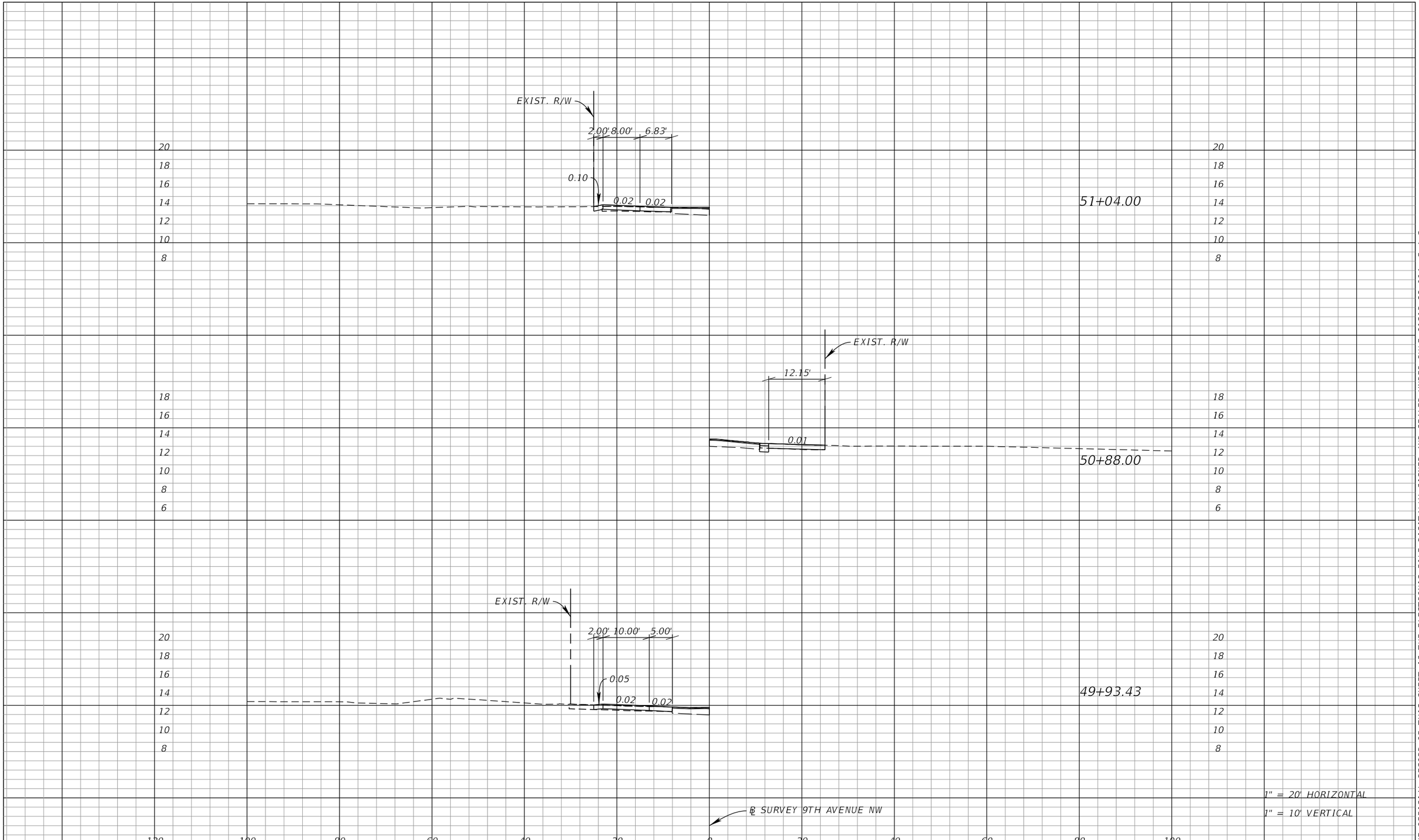

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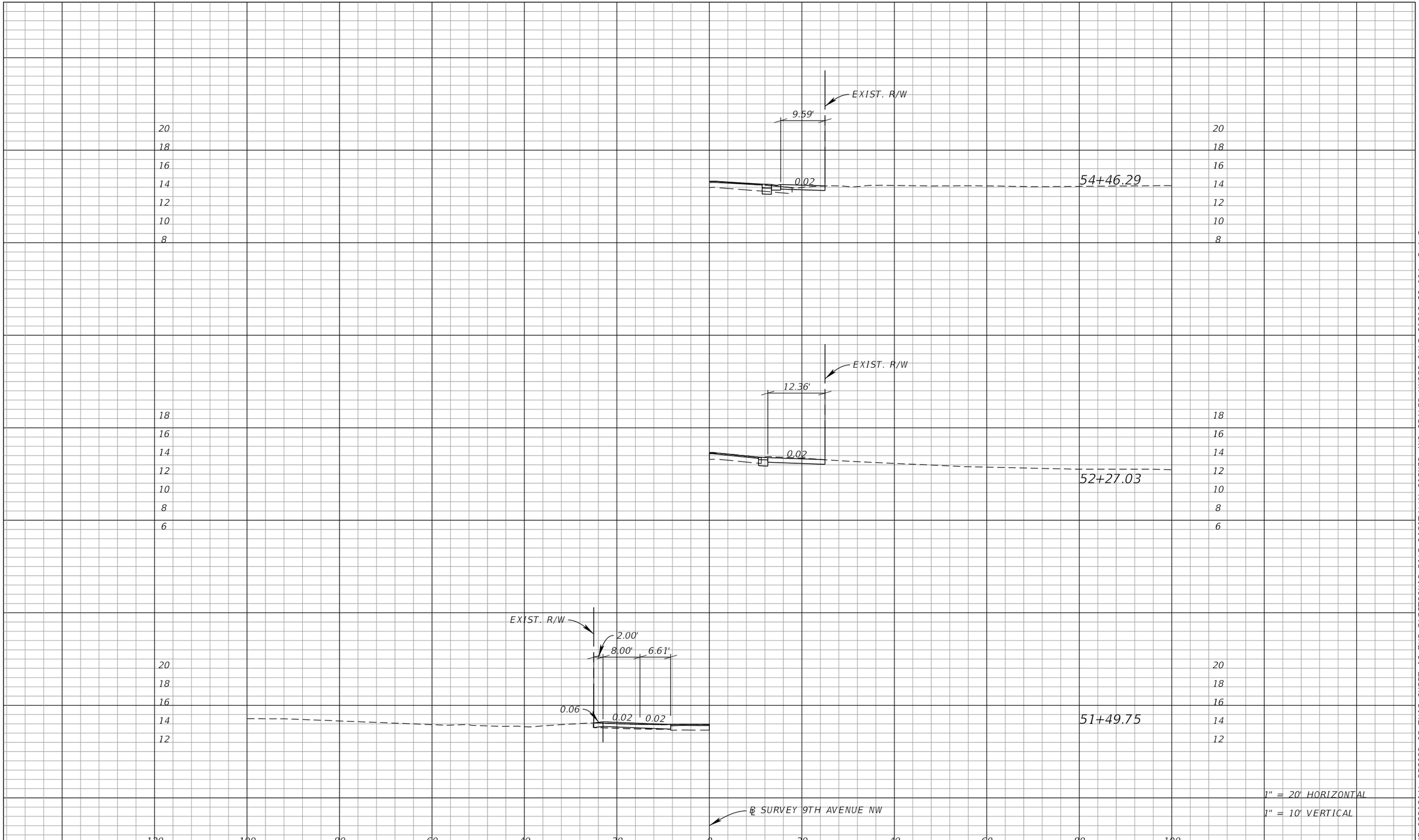
DRIVEWAY HALF SECTIONS 9TH AVENUE NW

SHEET NUMBER
95



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9TH AVENUE NW

MANATEE COUNTY FL

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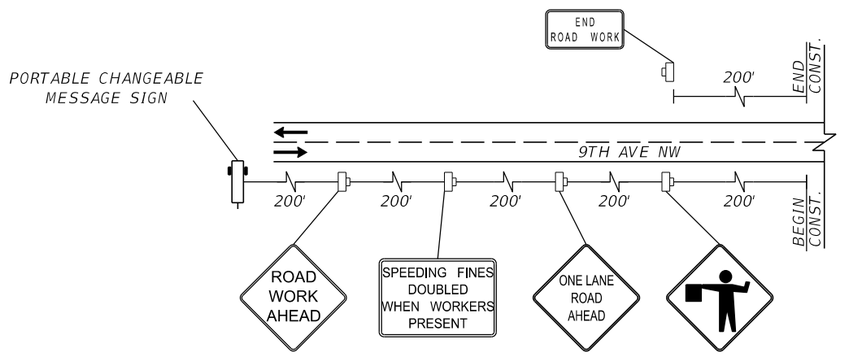
FL LICENSE NUMBER 76102
DATE:

DRIVEWAY HALF SECTIONS 9TH AVENUE NW

SHEET NUMBER
96

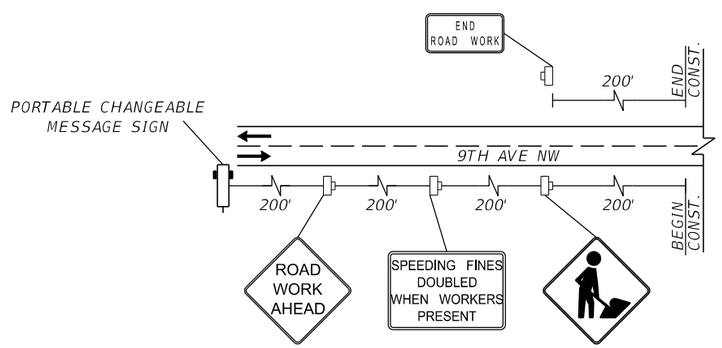
TRAFFIC CONTROL GENERAL NOTES

1. MAINTAIN ACCESS FOR LOCAL TRAFFIC AT ALL TIMES FOR WORK ZONE AREA.
2. MAINTAIN A WORK ZONE SPEED OF 35 MPH (POSTED) UNLESS OTHERWISE NOTED.
3. COORDINATE TEMPORARY DRIVEWAY ACCESS WITH ALL RESIDENTIAL PROPERTIES PRIOR TO CONSTRUCTION.
4. REMOVE, COVER OR TEMPORARILY RELOCATE ALL EXISTING SIGNS AND PAVEMENT MARKINGS WHICH CONFLICT WITH THE TRAFFIC CONTROL PLAN DURING A CONSTRUCTION PHASE.
5. PERFORM ALL WORK DURING DAYTIME HOURS (7:00 AM - 7:00 PM).
6. ADHERE TO THE REQUIREMENTS SET FORTH IN THE LATEST VERSION OF THE INDEX 102-600 SERIES OF THE FDOT STANDARD PLANS AT ALL TIMES.
7. MAINTAIN AN ADA COMPLIANT PEDESTRIAN PATHWAY THROUGHOUT LIMITS OF CONSTRUCTION PROJECT AT LOCATIONS WHERE SIDEWALK CURRENTLY EXISTS. PLACE NECESSARY SIDEWALK CLOSURE SIGNAGE IN ACCORDANCE WITH STANDARD FDOT INDEX 102-660.
8. MAINTAIN BI-DIRECTIONAL TRAFFIC FLOW IN ALL AREAS WHERE POSSIBLE.
9. CONTRACTOR TO COORDINATE WITH MANATEE COUNTY TO APPROVE ANY LANE CLOSURES NO LESS THAN THREE WEEKS IN ADVANCE. PORTABLE CHANGEABLE MESSAGE SIGN MUST ANNOUNCE LANE CLOSURE NO LESS THAN ONE WEEK PRIOR TO CLOSURE.



ADVANCE WARNING FLAGGING OPERATIONS

9TH AVE NW EB
(FOR WB TRAFFIC USE INVERTED IMAGE)
SEE INDEX 102-600 FOR SIDE STREET APPROACHES



ADVANCE WARNING BEGIN/END CONSTRUCTION

9TH AVE NW EB
(FOR WB TRAFFIC USE INVERTED IMAGE)

PORTABLE CHANGEABLE MESSAGE SIGNS

PLACE PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) 14 DAYS PRIOR TO THE FIRST DAY OF CONSTRUCTION.

BEGIN/END PROJECT PRIOR TO CONSTRUCTION (9TH AVE NW FOR BOTH DIRECTIONS OF TRAVEL)

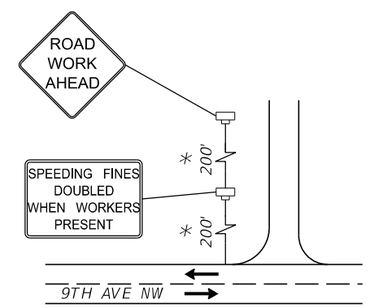
MESSAGES SHOULD READ:

MESSAGE 1	MESSAGE 2
ROAD WORK	BEGINS XX/XX/XX

BEGIN/END PROJECT DURING CONSTRUCTION (9TH AVE NW FOR BOTH DIRECTIONS OF TRAVEL)

MESSAGES SHOULD READ:

MESSAGE 1	MESSAGE 2
CONST AHEAD	XX/XX/XX TO XX/XX/XX



ADVANCE WARNING UNSIGNALIZED SIDE STREET DETAIL

79TH ST NW (LT)
82ND ST NW (LT)
83RD ST NW (LT/RT)
84TH ST NW (RT)
86TH ST CT NW (RT)
87TH ST NW (LT)
87TH ST CT NW (RT)
88TH ST NW (RT)
89TH ST NW (RT)
89TH CT NW (RT)
92ND ST NW (LT)

LEGEND

- → LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
- * ADJUST DISTANCE BETWEEN SIGNS TO ACCOMMODATE SITE CONDITIONS
- WORK ZONE SIGN
- TRAFFIC CONTROL SIGN

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Manatee County FLORIDA

9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

TTCP GENERAL NOTES / DETAILS

SHEET NUMBER 97

PHASING NOTES - 9TH AVENUE NW

PHASE I

1. PLACE ADVANCE WARNING TRAFFIC CONTROL SIGNS AND DEVICES AS SHOWN IN THE TTCP GENERAL NOTES/DETAILS SHEET.

2. PLACE WORK ZONE SIGNS AND CHANNELIZING DEVICES, UTILIZING INDICES 102-600, 102-602, 102-603, AND 102-604 AS REQUIRED. SET UP DETOUR PLAN PER PHASE IA DETOUR PLAN SHEET.

3. CONSTRUCT OUTFALL CANAL ADJACENT TO THE CROSS DRAIN AT APPROXIMATE STA. 36+80. CONSTRUCT CULVERT AT HAWTHORN PARK OUTFALL.

4. CONSTRUCT WATER MAIN AND RECLAIM MAIN RELOCATIONS AT CULVERT IN CONJUNCTION WITH CULVERT CONSTRUCTION.

5. CONSTRUCT ALL CURBLINES, WIDENING AND RECONSTRUCTION, DRAINAGE, EARTHWORK, SODDING, AND SIDEWALKS FROM APPROXIMATE STA. 34+00 TO STA. 39+10.

6. SEE 92ND TEMPORARY TRAFFIC CONTROL PHASING PLAN SHEETS, PHASING NOTES, AND DETOUR PLAN TO CONSTRUCT THE WORK AT 92ND STREET NW AND 9TH AVENUE NW. MAKE CONNECTION TO MULTI-USE-TRAIL ON THE NORTH SIDE AND CONNECTION TO PIPE AT STRUCTURE S-404.

PHASE IIA

1. PLACE ADVANCE WARNING TRAFFIC CONTROL SIGNS AND DEVICES AS SHOWN IN THE TTCP GENERAL NOTES / DETAILS SHEET.

2. PLACE WORK ZONE SIGNS AND CHANNELIZING DEVICES, UTILIZING INDICES 102-600, 102-602, 102-603 AND 102-604 AS REQUIRED.

3. EAST OF APPROXIMATE STA. 43+75, CONSTRUCT WIDENING TO THE SOUTH UP TO THE FINAL LIFT, SIDEWALKS, CURBLINES, SODDING, AND EARTHWORK UP TO APPROXIMATE STA. 53+13.

4. MAINTAIN LOCAL ACCESS DOWN 88TH STREET NW SOUTH OF 9TH AVENUE NW AT ALL TIMES USING A FLAGGER AS NECESSARY. CONSTRUCT OUTFALL STRUCTURE AND DRAINAGE TRUNKLINE UP TO, BUT NOT INCLUDING, STRUCTURE S-800.

5. SEE 87TH TEMPORARY TRAFFIC CONTROL PHASING PLAN SHEETS, PHASING NOTES, AND DETOUR PLAN TO CONSTRUCT THE WORK AT 87TH STREET NW AND 9TH AVENUE NW. MAKE CONNECTION TO MULTI-USE-TRAIL ON THE NORTH SIDE.

PHASE IIB

1. PLACE ADVANCE WARNING TRAFFIC CONTROL SIGNS AND DEVICES AS SHOWN IN THE TTCP GENERAL NOTES / DETAILS SHEET.

2. PLACE WORK ZONE SIGNS AND CHANNELIZING DEVICES, UTILIZING INDICES 102-600, 102-602, 102-603, AND 102-604 AS REQUIRED.

3. EAST OF APPROXIMATE STA. 57+10, CONSTRUCT WIDENING TO THE SOUTH UP TO THE FINAL LIFT, SIDEWALKS, CURBLINES, SODDING, AND EARTHWORK ENDING WORK AT APPROXIMATE STA. 71+70.

PHASE III

1. PLACE ADVANCE WARNING TRAFFIC CONTROL SIGNS AND DEVICES AS SHOWN IN THE TTCP GENERAL NOTES / DETAILS SHEET.

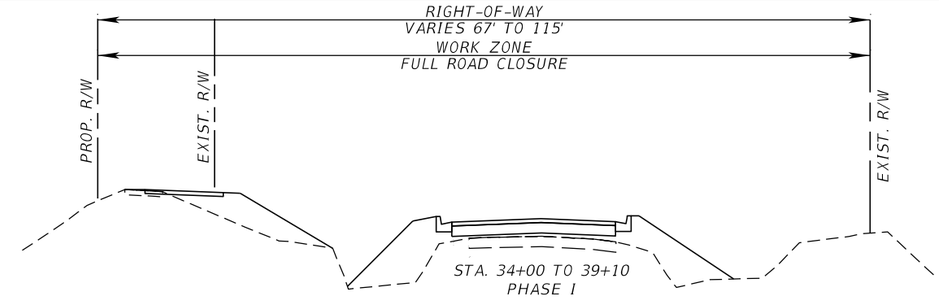
2. PLACE WORK ZONE SIGNS AND CHANNELIZING DEVICES, UTILIZING INDICES 102-600, 102-602, 102-603, AND 102-604 AS REQUIRED. USE SINGLE LANE CLOSURES AND FLAGGER TO CARRY-OUT MILLING OPERATIONS ALONG THE ENTIRE PROJECT LIMITS.

3. EAST OF APPROXIMATE STA. 75+00, CONSTRUCT SODDING AND EARTHWORK UP TO APPROXIMATE STA. 83+15. SEE 9TH AVENUE NW: 78TH STREET NW TO 75TH STREET NW PROJECT FOR MORE INFORMATION ON TIE-IN INFORMATION.

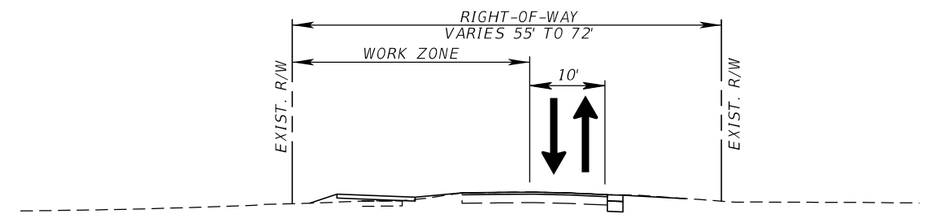
4. CONSTRUCT SIDEWALK AND DRAINAGE WORK EAST OF 75TH STREET NW UP TO 71ST STREET NW. ENSURE DRIVEWAY ACCESS TO ALL RESIDENTIAL PROPERTIES AT ALL TIMES.

5. CONSTRUCT MILLING OPERATIONS ALONG ENTIRE PROJECTS LIMITS USING INDEX 102-603. PLACE FINAL LIFT OF ASPHALT AND FINAL SURFACE PAVEMENT MARKINGS ALONG THE ENTIRE PROJECT LIMITS.

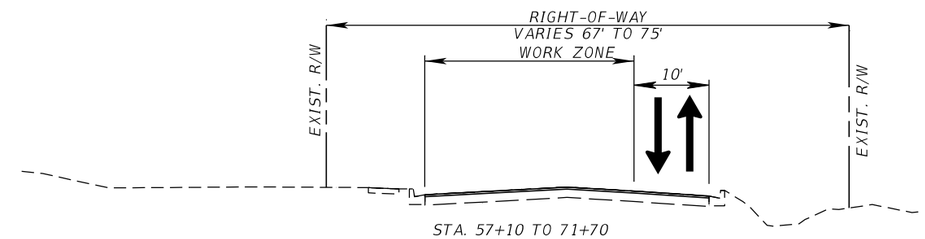
4. PLACE FINAL LIFT OF ASPHALT AND FINAL SURFACE PAVEMENT MARKINGS ALONG THE ENTIRE PROJECT LIMITS.



STA. 34+00 TO 39+10
PHASE I



STA. 43+75 TO 53+13
PHASE IIA



STA. 57+10 TO 71+70
PHASE IIB

PHASING NOTES - 87TH STREET COURT NW

1. PLACE ADVANCE WARNING TRAFFIC CONTROL SIGNS AND DEVICES AS SHOWN IN THE TTCP GENERAL NOTES / DETAILS SHEET.

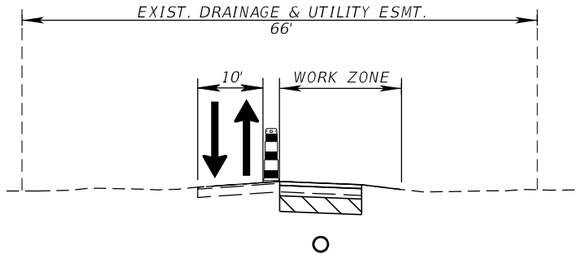
2. PLACE WORK ZONE SIGNS AND CHANNELIZING DEVICES, UTILIZING INDICES 102-600, 102-602, 102-603 AND 102-604 AS REQUIRED.

3. CONSTRUCT STRUCTURES S-800, S-801, S-802, AND S-803 AND THEIR ASSOCIATED PIPES.

3. RECONSTRUCT THE NORTHBOUND LANE OF 87TH STREET COURT NORTHWEST FROM APPROXIMATELY STA. 10+42 - 16+70 UP TO THE FINAL LIFT. MILL THE EXISTING SOUTHBOUND LANE. COMPLETE SODDING OF RESIDENTIAL YARDS AND COORDINATE WITH PROPERTY OWNERS TO RECONSTRUCT DRIVEWAYS AS SHOWN IN THE PLANS. ENSURE DRIVEWAY ACCESS TO ALL RESIDENTIAL PROPERTIES AT ALL TIMES.

4. CONSTRUCT STRUCTURE S-804 AND APPROXIMATELY 11 LF OF PIPE. COVER WITH STEEL PLATES OVERNIGHT AND MAINTAIN ACCESS TO ALL RESIDENTIAL PROPERTIES. CONSTRUCT STRUCTURES S-805, S-806, AND S-807 AND THEIR ASSOCIATED PIPES. MAKE CONNECTION FROM STRUCTURE S-804 TO S-805. COORDINATE WITH PROPERTY OWNERS PRIOR TO WORK AND MAINTAIN ACCESS AT ALL TIMES.

5. PLACE FINAL LIFT OF ASPHALT PAVEMENT.



87TH ST CT NW

STA. 10+42.00 - STA. 17+59.50

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Manatee County FLORIDA

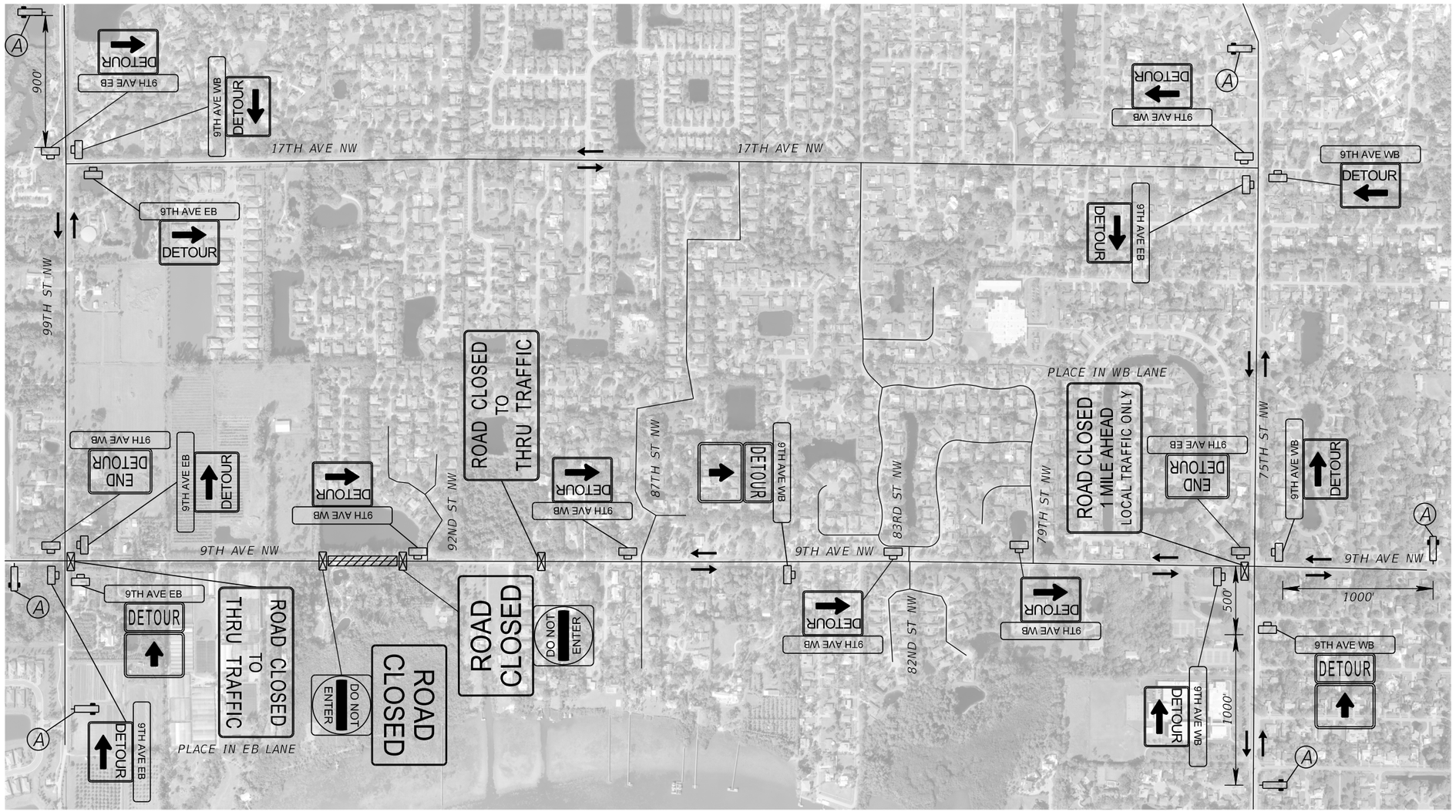
9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

TTCP
PHASING NOTES

SHEET NUMBER
98



N.T.S.

A

9TH AVE CLOSED AHEAD	→	BEGINS X/X/XX	14 DAYS PRIOR
9TH AVE CLOSED AHEAD	→	FOLLOW 9TH AVE DETOUR	PCMS MESSAGE

NOTE: CONTRACTOR TO MAINTAIN ACCESS FOR LOCAL TRAFFIC AT ALL TIMES

LEGEND

- WORK ZONE AREA
- WORK ZONE SIGN
- PORTABLE CHANGEABLE (VARIABLE) MESSAGE SIGN
- LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
- TYPE III BARRICADE

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9TH AVENUE NW

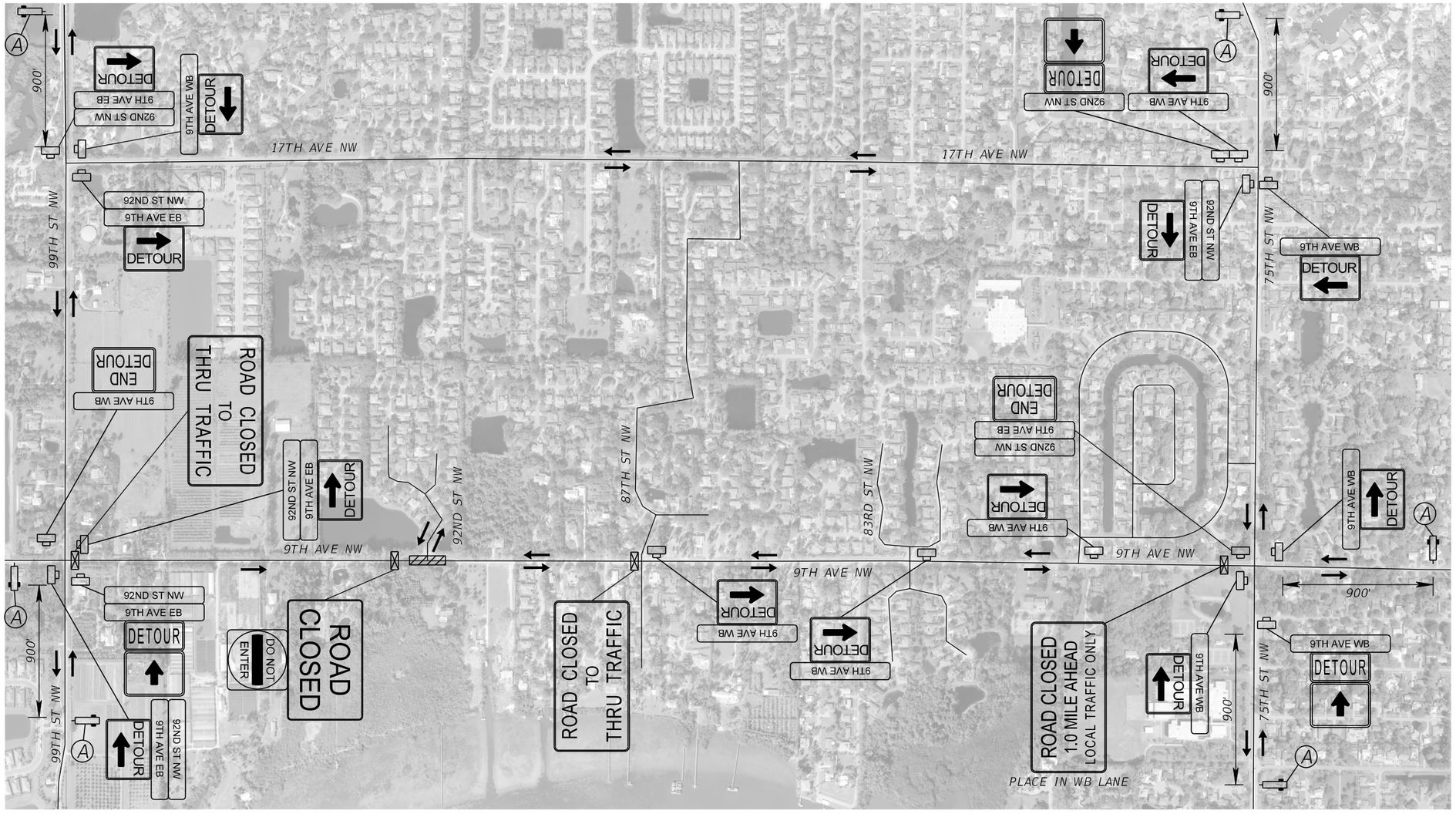
MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

DETOUR PLAN 9TH AVE / PHASE I

SHEET NUMBER 99

PHASE I



N.T.S.

A

9TH AVE CLOSED AT 92ND → BEGINS X/X/XX — 14 DAYS PRIOR

9TH AVE CLOSED AT 92ND → FOLLOW DETOUR — PCMS MESSAGE

LEGEND

- WORK ZONE AREA
- WORK ZONE SIGN
- PORTABLE CHANGEABLE (VARIABLE) MESSAGE SIGN
- LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
- TYPE III BARRICADE

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9TH AVENUE NW

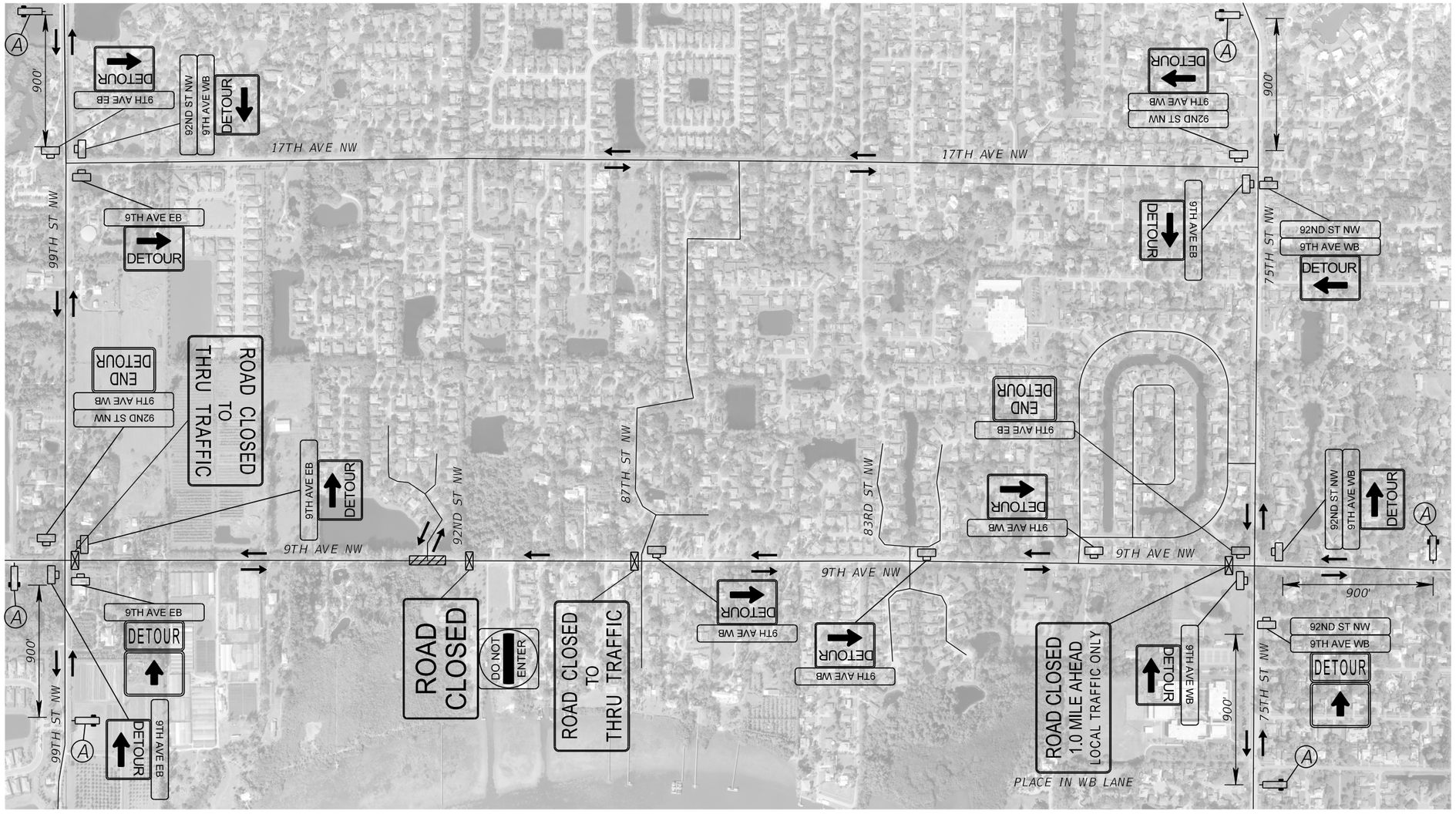
MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

DETOUR PLAN
9TH AVE / 92ND ST

SHEET NUMBER
100

PHASE II



N.T.S.

A

9TH AVE CLOSED AT 92ND → FOLLOW DETOUR

PCMS MESSAGE

LEGEND

- WORK ZONE AREA
- WORK ZONE SIGN
- PORTABLE CHANGEABLE (VARIABLE) MESSAGE SIGN
- LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
- TYPE III BARRICADE

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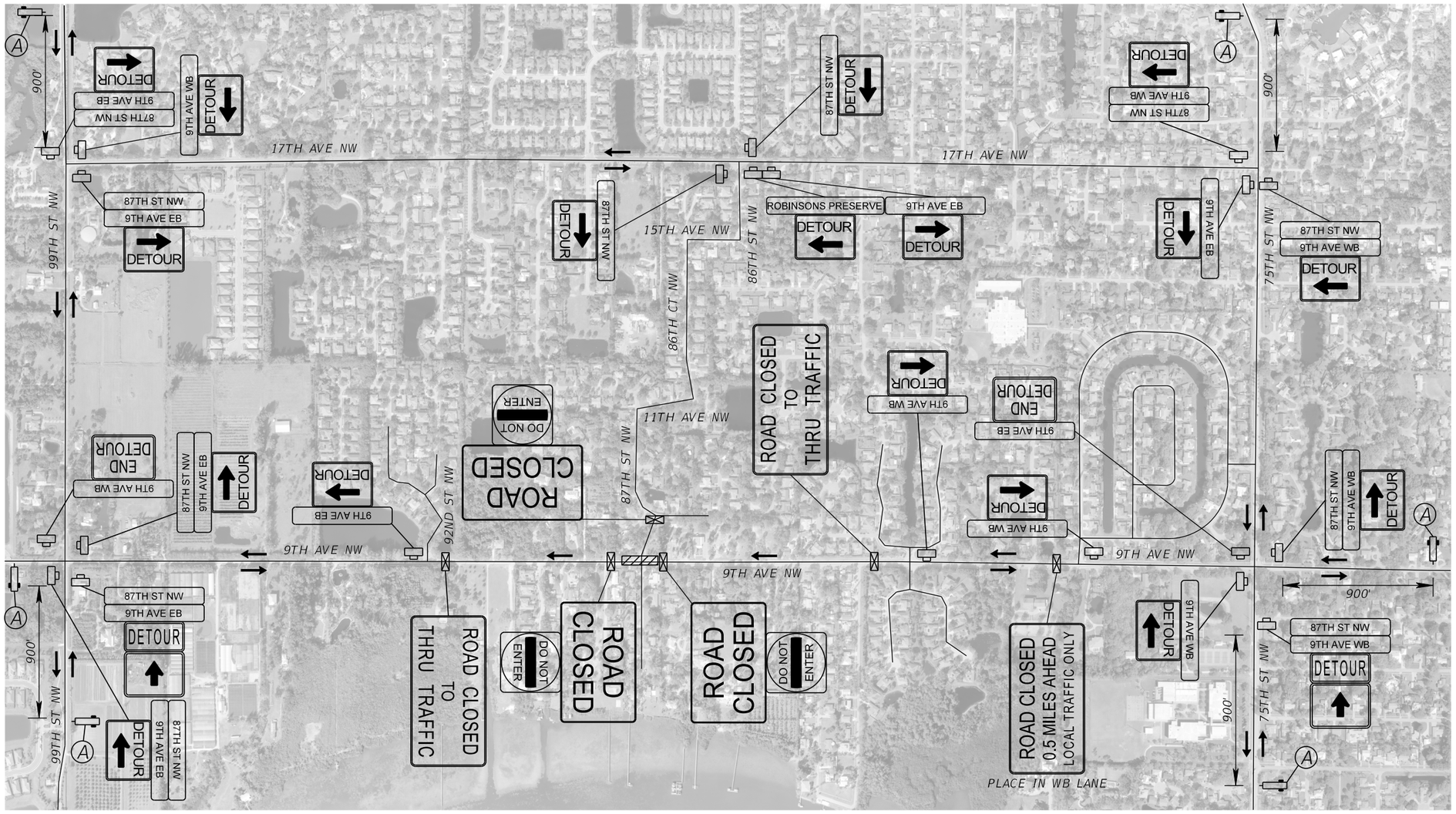
DETOUR PLAN
9TH AVE / 92ND ST

SHEET NUMBER
101

PRE-PHASE A/B



N.T.S.

A

9TH AVE CLOSED AT 87TH →	BEGINS X/X/XX — 14 DAYS PRIOR
9TH AVE CLOSED AT 87TH →	FOLLOW DETOUR — PCMS MESSAGE

LEGEND

- WORK ZONE AREA
- WORK ZONE SIGN
- PORTABLE CHANGEABLE (VARIABLE) MESSAGE SIGN
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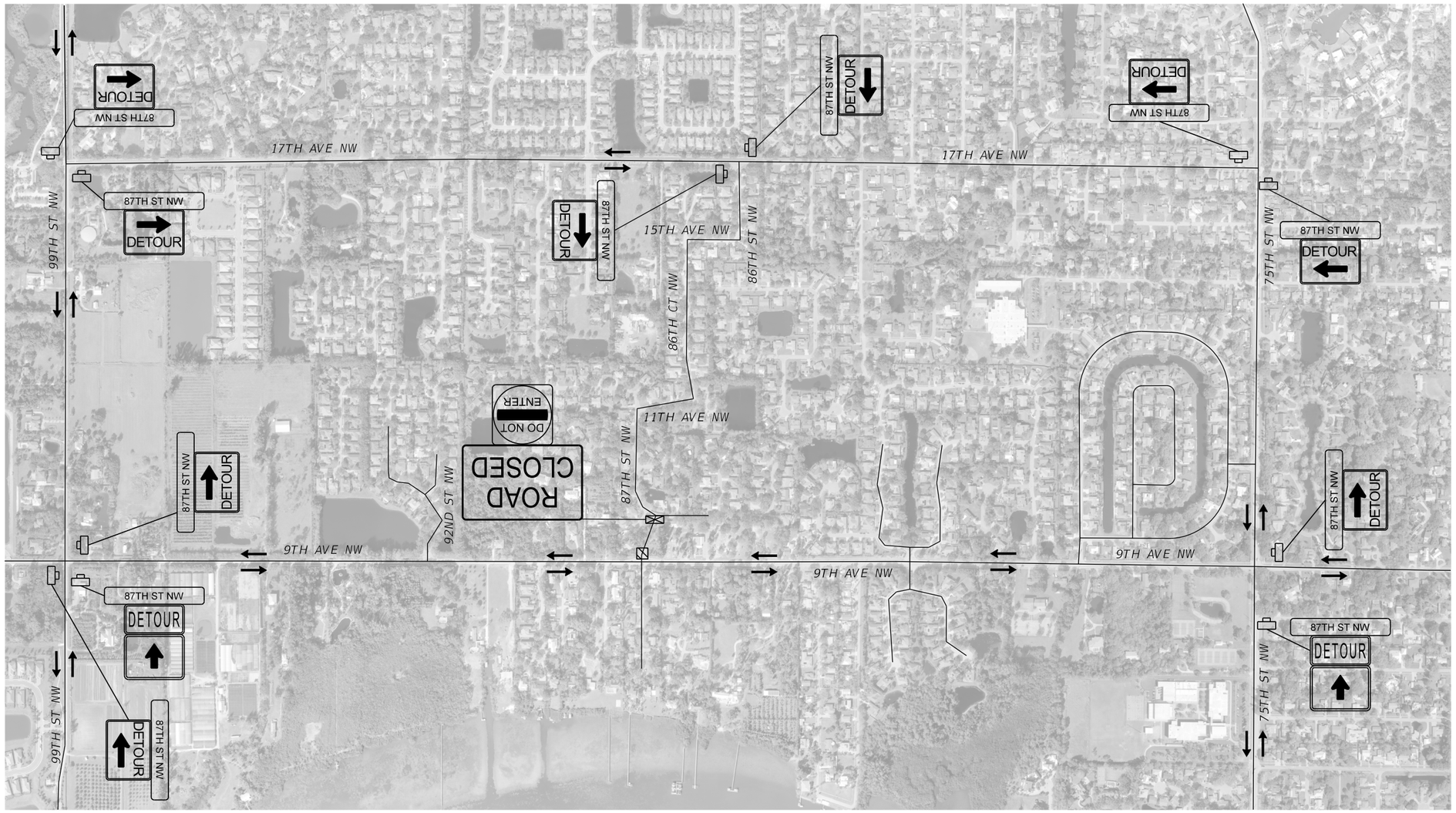
DETOUR PLAN
9TH AVE / 87TH ST

SHEET NUMBER
102

PHASE II A



N.T.S.

LEGEND

▨	WORK ZONE AREA
🧳	WORK ZONE SIGN
→	LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
⊠	TYPE III BARRICADE

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FL LICENSE NUMBER 76102
DATE:

DETOUR PLAN
9TH AVE / 87TH ST

SHEET NUMBER
103

PHASE II B

N.T.S.

NOTE: CONTRACTOR TO MAINTAIN
LOCAL ACCESS TO 82ND ST NW

LEGEND

- WORK ZONE AREA
- WORK ZONE SIGN
- PORTABLE CHANGEABLE (VARIABLE) MESSAGE SIGN
- LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
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9TH AVENUE NW

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JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

DETOUR PLAN
9TH AVE / 83RD ST

SHEET NUMBER
104

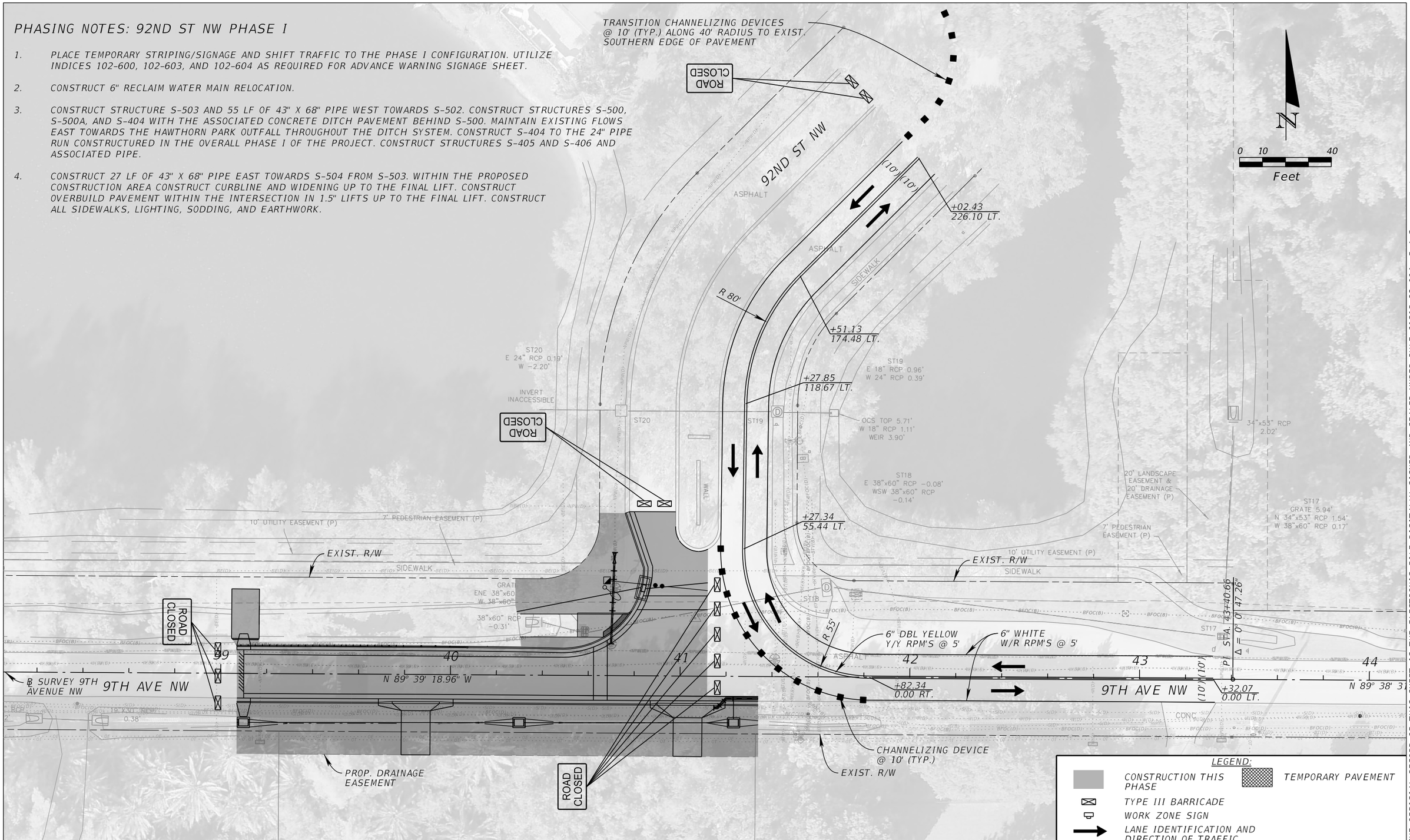
PHASING NOTES: 92ND ST NW PHASE I

1. PLACE TEMPORARY STRIPING/SIGNAGE AND SHIFT TRAFFIC TO THE PHASE I CONFIGURATION. UTILIZE INDICES 102-600, 102-603, AND 102-604 AS REQUIRED FOR ADVANCE WARNING SIGNAGE SHEET.

2. CONSTRUCT 6" RECLAIM WATER MAIN RELOCATION.

3. CONSTRUCT STRUCTURE S-503 AND 55 LF OF 43" X 68" PIPE WEST TOWARDS S-502. CONSTRUCT STRUCTURES S-500, S-500A, AND S-404 WITH THE ASSOCIATED CONCRETE DITCH PAVEMENT BEHIND S-500. MAINTAIN EXISTING FLOWS EAST TOWARDS THE HAWTHORN PARK OUTFALL THROUGHOUT THE DITCH SYSTEM. CONSTRUCT S-404 TO THE 24" PIPE RUN CONSTRUCTURED IN THE OVERALL PHASE I OF THE PROJECT. CONSTRUCT STRUCTURES S-405 AND S-406 AND ASSOCIATED PIPE.

4. CONSTRUCT 27 LF OF 43" X 68" PIPE EAST TOWARDS S-504 FROM S-503. WITHIN THE PROPOSED CONSTRUCTION AREA CONSTRUCT CURBLINE AND WIDENING UP TO THE FINAL LIFT. CONSTRUCT OVERBUILD PAVEMENT WITHIN THE INTERSECTION IN 1.5" LIFTS UP TO THE FINAL LIFT. CONSTRUCT ALL SIDEWALKS, LIGHTING, SODDING, AND EARTHWORK.



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Kimley»Horn

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PHONE: 941-379-7600
WWW.KIMLEY-HORN.COM

KHA PROJECT 148400070
DATE 10/02/2025
SCALE AS SHOWN
DESIGNED BY
DRAWN BY
CHECKED BY

Manatee County

9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

TEMP TRAFFIC CONTROL 92ND ST. - PHASE I

SHEET NUMBER 105

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

PHASING NOTES: 92ND ST NW PHASE II

1. PLACE TEMPORARY ASPHALT AS DEPICTED IN THE PHASE I TRAFFIC CONTROL PLAN SHEET. PLACE TEMPORARY STRIPING/SIGNAGE AND SHIFT TRAFFIC TO THE PHASE II CONFIGURATION. UTILIZE INDICES 102-600, 102-603, AND 102-604 AS REQUIRED FOR ADVANCE WARNING SIGNAGE SHEET.

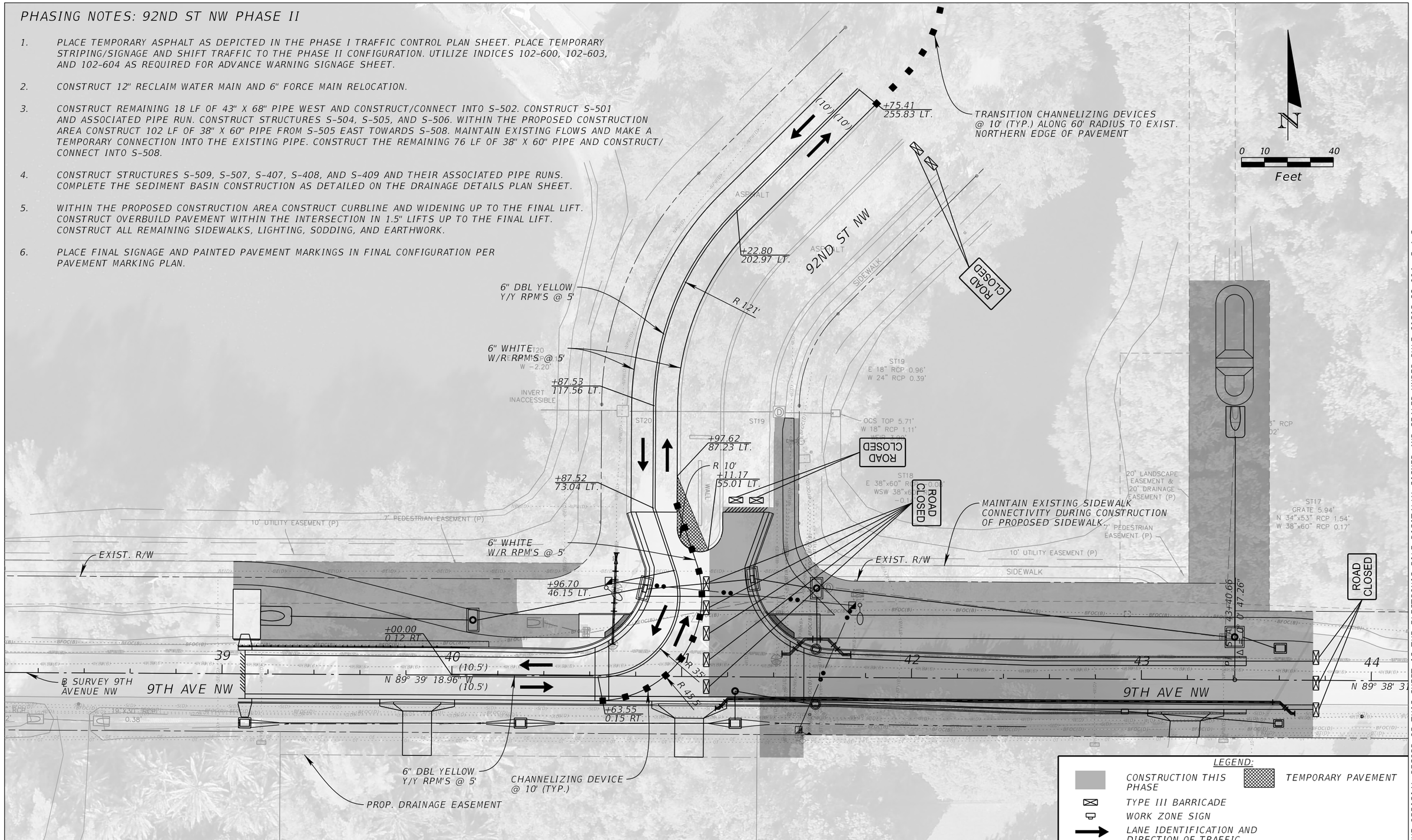
2. CONSTRUCT 12" RECLAIM WATER MAIN AND 6" FORCE MAIN RELOCATION.

3. CONSTRUCT REMAINING 18 LF OF 43" X 68" PIPE WEST AND CONSTRUCT/CONNECT INTO S-502. CONSTRUCT S-501 AND ASSOCIATED PIPE RUN. CONSTRUCT STRUCTURES S-504, S-505, AND S-506. WITHIN THE PROPOSED CONSTRUCTION AREA CONSTRUCT 102 LF OF 38" X 60" PIPE FROM S-505 EAST TOWARDS S-508. MAINTAIN EXISTING FLOWS AND MAKE A TEMPORARY CONNECTION INTO THE EXISTING PIPE. CONSTRUCT THE REMAINING 76 LF OF 38" X 60" PIPE AND CONSTRUCT/CONNECT INTO S-508.

4. CONSTRUCT STRUCTURES S-509, S-507, S-407, S-408, AND S-409 AND THEIR ASSOCIATED PIPE RUNS. COMPLETE THE SEDIMENT BASIN CONSTRUCTION AS DETAILED ON THE DRAINAGE DETAILS PLAN SHEET.

5. WITHIN THE PROPOSED CONSTRUCTION AREA CONSTRUCT CURBLINE AND WIDENING UP TO THE FINAL LIFT. CONSTRUCT OVERBUILD PAVEMENT WITHIN THE INTERSECTION IN 1.5" LIFTS UP TO THE FINAL LIFT. CONSTRUCT ALL REMAINING SIDEWALKS, LIGHTING, SODDING, AND EARTHWORK.

6. PLACE FINAL SIGNAGE AND PAINTED PAVEMENT MARKINGS IN FINAL CONFIGURATION PER PAVEMENT MARKING PLAN.



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MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

TEMP TRAFFIC CONTROL 92ND ST. - PHASE II

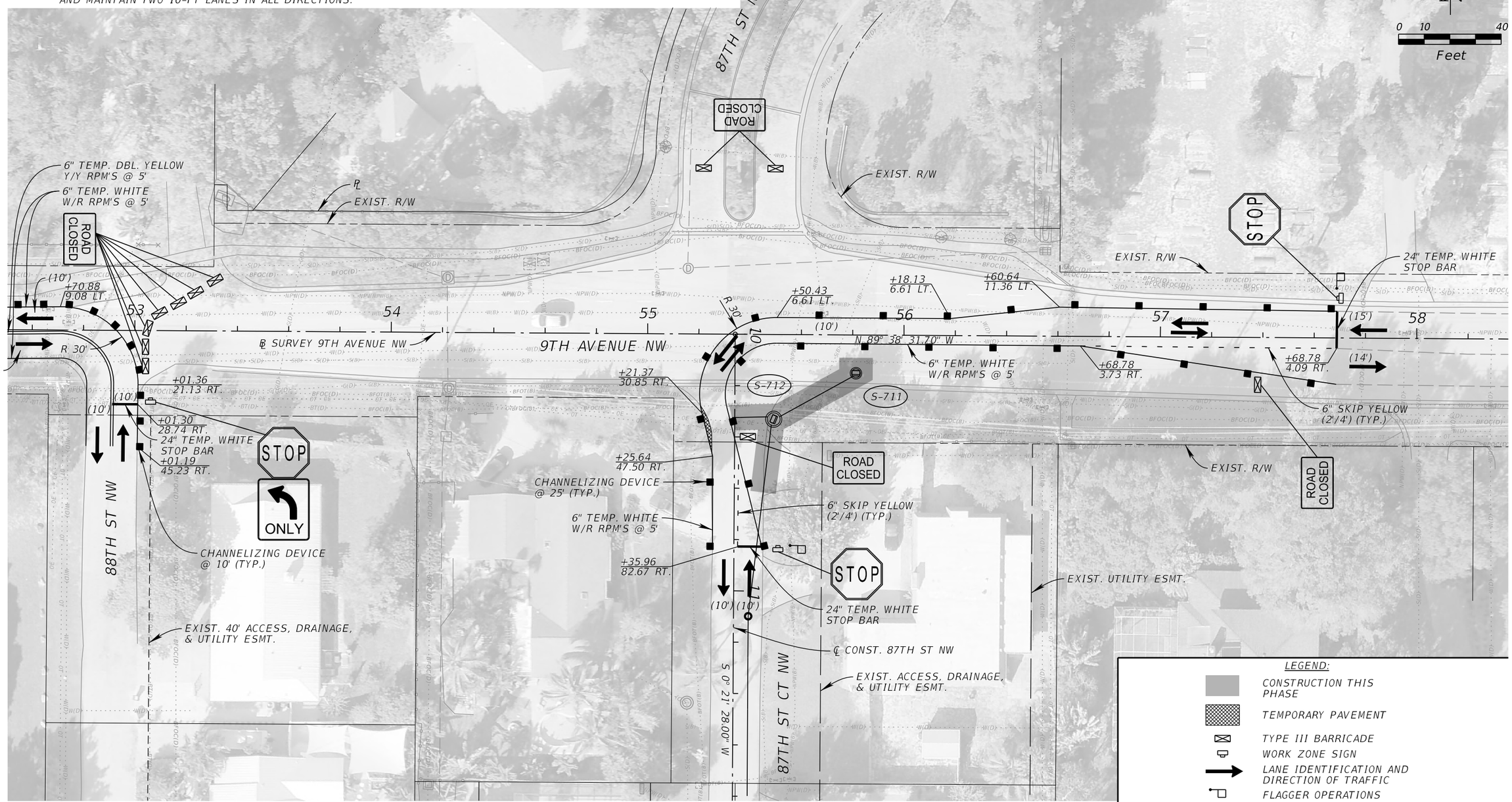
SHEET NUMBER 106

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

PHASING NOTES: 87TH ST NW PRE-PHASE A

1. PLACE TEMPORARY STRIPING/SIGNAGE, TEMPORARY PAVEMENT, AND SHIFT TRAFFIC TO THE PRE-PHASE A CONFIGURATION. UTILIZE INDICIES 102-600, 102-603, AND 102-604 AS REQUIRED FOR THE ADVANCE WARMING SIGNAGE LAYOUT. MAINTAIN ACCESS TO 87TH ST CT NW AND 88TH ST NW AT ALL TIMES.

2. MAKE PIPE CONNECTION TO COVERED PIPE INSTALLED ALONG 87TH ST CT NW AND CONSTRUCT STRUCTURES S-711 AND S-712. CONSTRUCT PIPE CONNECTION BETWEEN S-712 AND S-711 AND APPROXIMATELY 14 LF OF PIPE TOWARDS S-707. AT THE END OF EACH WORK DAY, CONTRACTOR TO COVER ANY DROP-OFF CONDITIONS IN ACCORDANCE WITH INDEX 102-600 AND MAINTAIN TWO 10-FT LANES IN ALL DIRECTIONS.



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MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

TEMP TRAFFIC CONTROL 87TH ST. - PRE-PHASE A

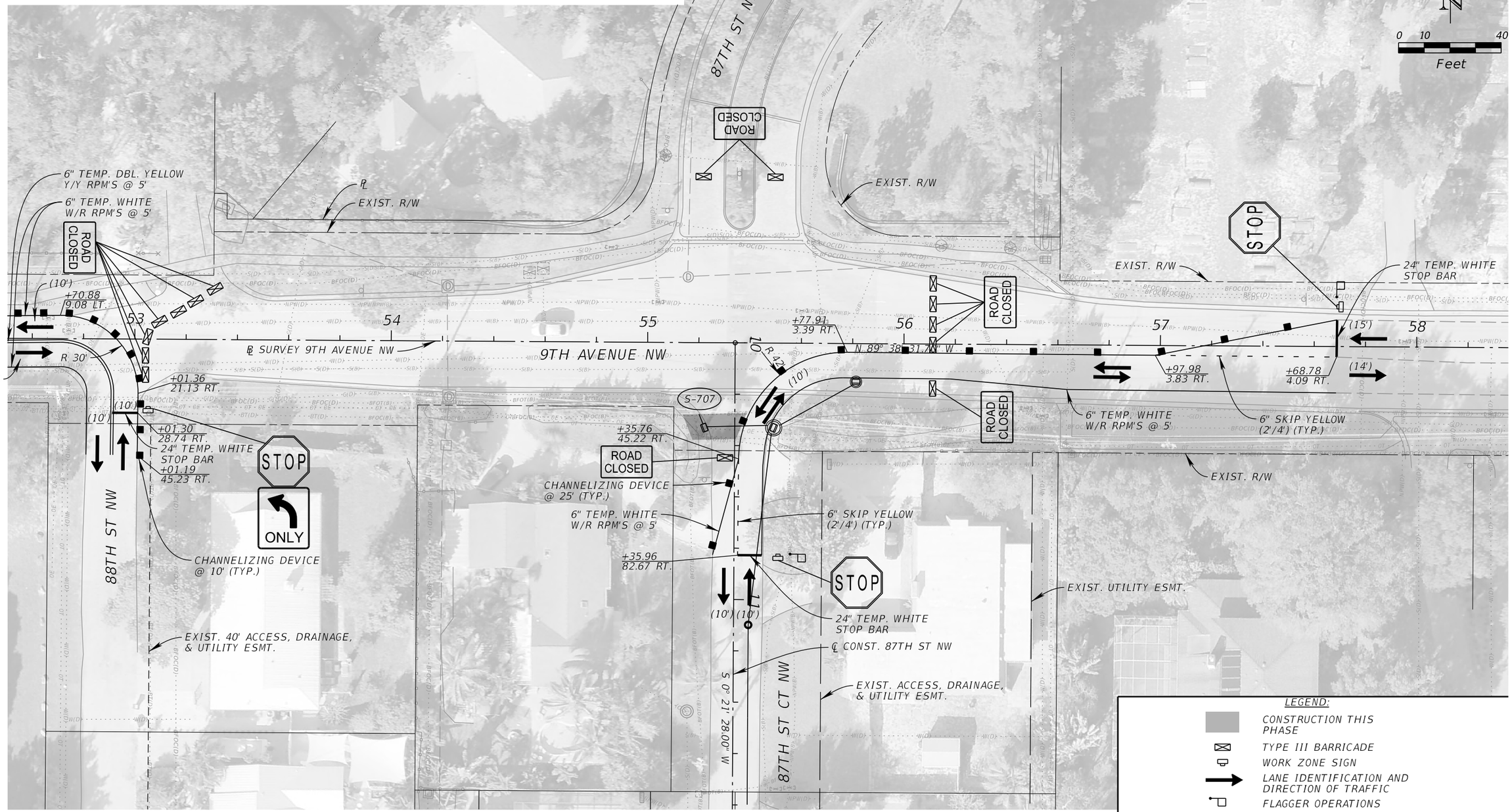
SHEET NUMBER 107

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

PHASING NOTES: 87TH ST NW PRE-PHASE B

1. PLACE TEMPORARY STRIPING/SIGNAGE AND SHIFT TRAFFIC TO THE PRE-PHASE B CONFIGURATION. UTILIZE INDICIES 102-600, 102-603, AND 102-604 AS REQUIRED FOR THE ADVANCE WARNING SIGNAGE LAYOUT. MAINTAIN ACCESS TO 87TH ST CT NW AND 88TH ST NW AT ALL TIMES.

2. CONSTRUCT APPROXIMATELY 14 LF OF PIPE AND CONSTRUCT STRUCTURE S-707. CONSTRUCT APPROXIMATELY 5 LF OF PIPE FROM S-707 TOWARDS S-706. AT THE END OF EACH WORK DAY, CONTRACTOR TO COVER ANY DROP-OFF CONDITIONS IN ACCORDANCE WITH INDEX 102-600 AND MAINTAIN TWO 10-FT LANES IN ALL DIRECTIONS.



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TEMP TRAFFIC CONTROL 87TH ST. - PRE-PHASE B

SHEET NUMBER 108

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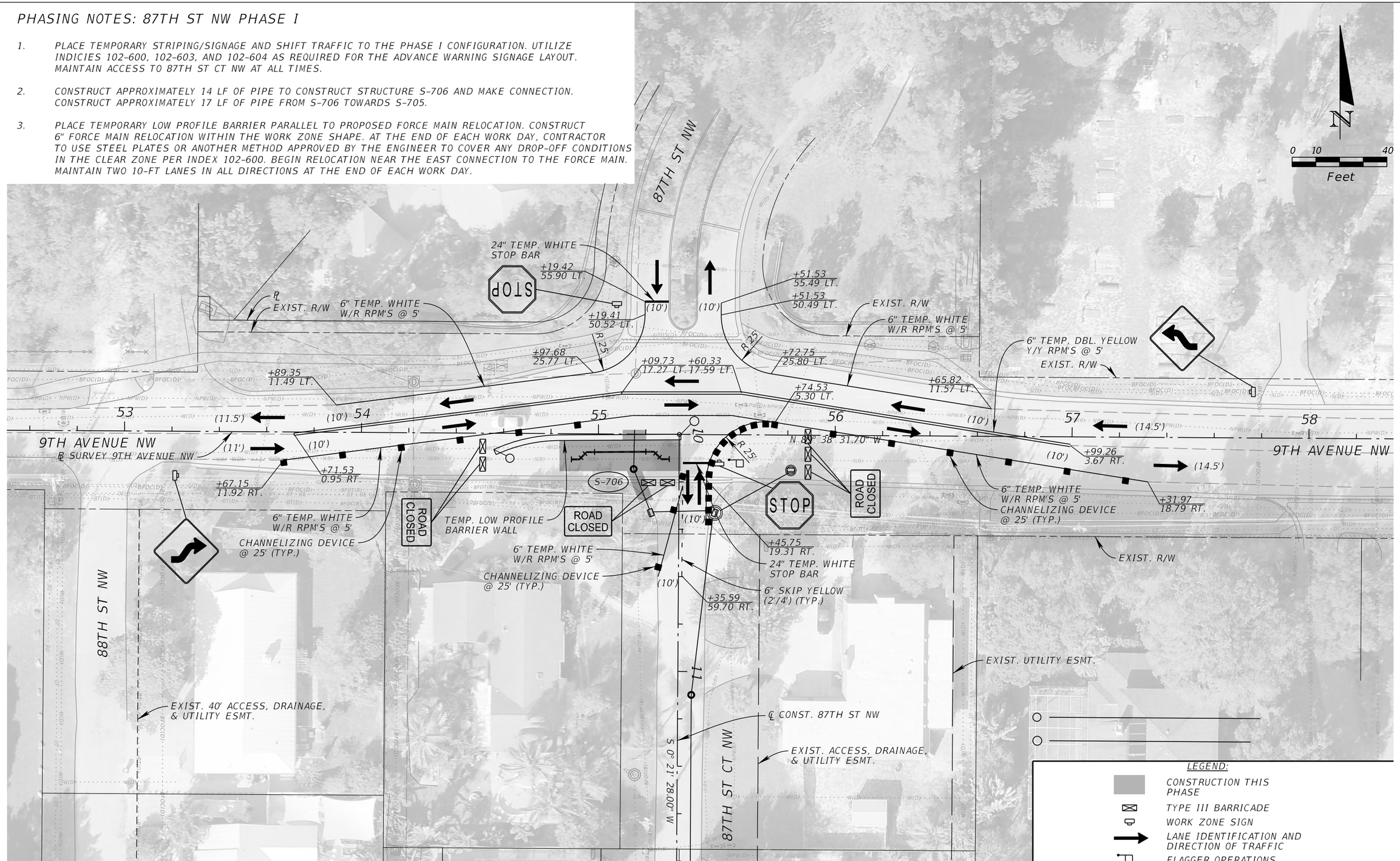
PHASING NOTES: 87TH ST NW PHASE I

1. PLACE TEMPORARY STRIPING/SIGNAGE AND SHIFT TRAFFIC TO THE PHASE I CONFIGURATION. UTILIZE INDICIES 102-600, 102-603, AND 102-604 AS REQUIRED FOR THE ADVANCE WARNING SIGNAGE LAYOUT. MAINTAIN ACCESS TO 87TH ST CT NW AT ALL TIMES.

2. CONSTRUCT APPROXIMATELY 14 LF OF PIPE TO CONSTRUCT STRUCTURE S-706 AND MAKE CONNECTION. CONSTRUCT APPROXIMATELY 17 LF OF PIPE FROM S-706 TOWARDS S-705.

3. PLACE TEMPORARY LOW PROFILE BARRIER PARALLEL TO PROPOSED FORCE MAIN RELOCATION. CONSTRUCT 6" FORCE MAIN RELOCATION WITHIN THE WORK ZONE SHAPE. AT THE END OF EACH WORK DAY, CONTRACTOR TO USE STEEL PLATES OR ANOTHER METHOD APPROVED BY THE ENGINEER TO COVER ANY DROP-OFF CONDITIONS IN THE CLEAR ZONE PER INDEX 102-600. BEGIN RELOCATION NEAR THE EAST CONNECTION TO THE FORCE MAIN. MAINTAIN TWO 10-FT LANES IN ALL DIRECTIONS AT THE END OF EACH WORK DAY.



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TEMP TRAFFIC CONTROL 87TH ST. - PHASE I

SHEET NUMBER 109

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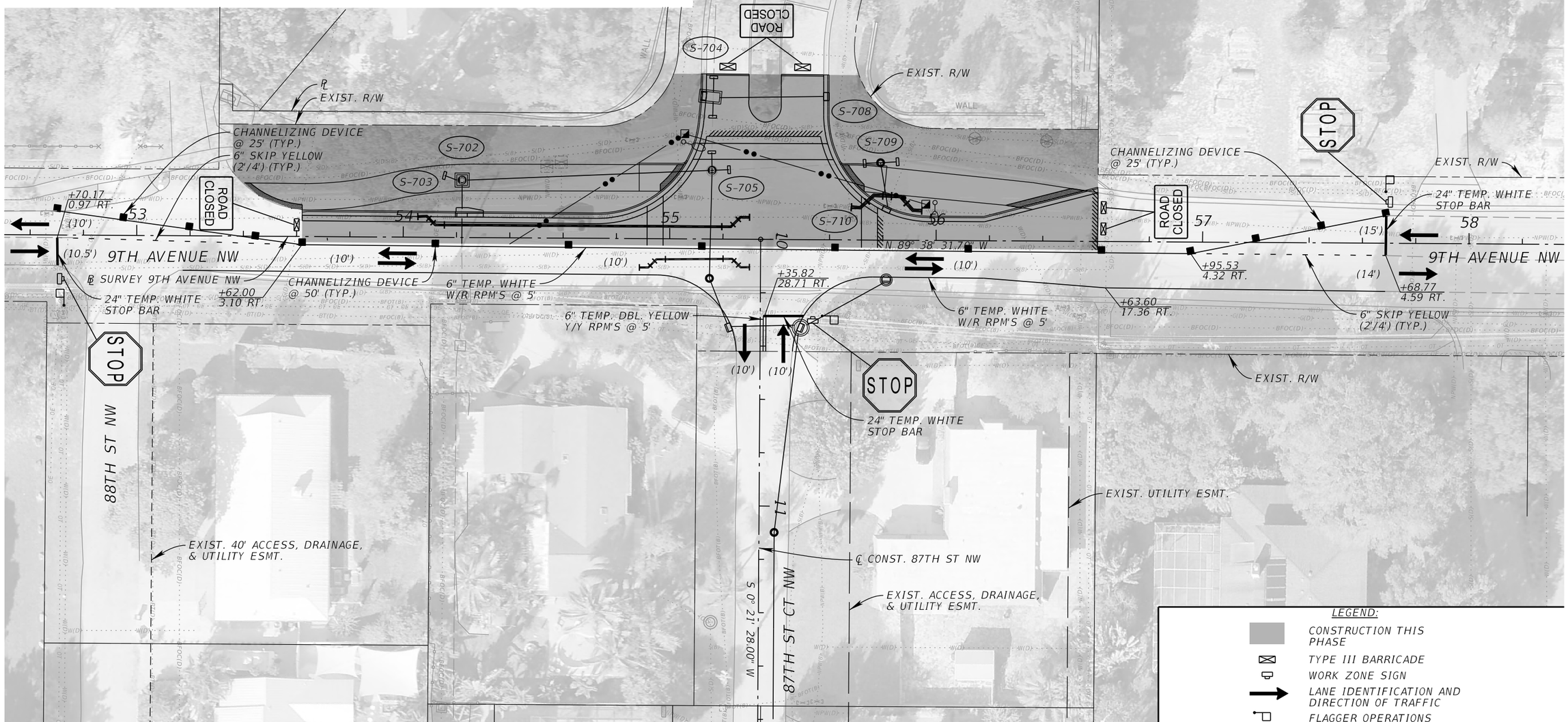
PHASING NOTES: 87TH ST NW PHASE II A

1. PLACE TEMPORARY STRIPING/SIGNAGE AND SHIFT TRAFFIC TO THE PHASE II A CONFIGURATION. UTILIZE INDICIES 102-600, 102-603, AND 102-604 AS REQUIRED FOR THE ADVANCE WARNING SIGNAGE LAYOUT. MAINTAIN ACCESS TO 87TH ST CT NW AT ALL TIMES.

2. CONSTRUCT STRUCTURES S-702, S-703, S-704, S-705, S-708, S-709, AND S-710. CONSTRUCT ALL ASSOCIATED PIPES WITH STRUCTURES AND APPROXIMATELY 29 LF OF PIPE TO MAKE CONNECTION TO S-705. CONSTRUCT APPROXIMATELY 10 LF FROM S-703 TOWARDS S-701.

3. CONSTRUCT 8" WATER MAIN RELOCATION WITHIN THE WORK ZONE SHAPE. AT THE END OF EACH WORK DAY, CONTRACTOR TO USE STEEL PLATES OR ANOTHER METHOD APPROVED BY THE ENGINEER TO COVER ANY DROP-OFF CONDITIONS IN THE CLEAR ZONE PER INDEX 102-600. MAINTAIN TWO 10-FT LANES IN ALL DIRECTIONS AT THE END OF EACH WORK DAY.

4. CONSTRUCT CURBLINE AND WIDENING WITHIN THE WORK ZONE SHAPE UP TO THE FINAL LIFT. CONSTRUCT OVERBUILD PAVEMENT WITHIN THE INTERSECTION IN 1.5" LIFTS UP TO, BUT NOT INCLUDING THE FINAL LIFT. CONSTRUCT ALL SIDEWALKS, LIGHTING, SODDING, AND EARTHWORK WITHIN THE WORK ZONE SHAPE.



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TEMP TRAFFIC CONTROL 87TH ST. - PHASE II A

SHEET NUMBER 110

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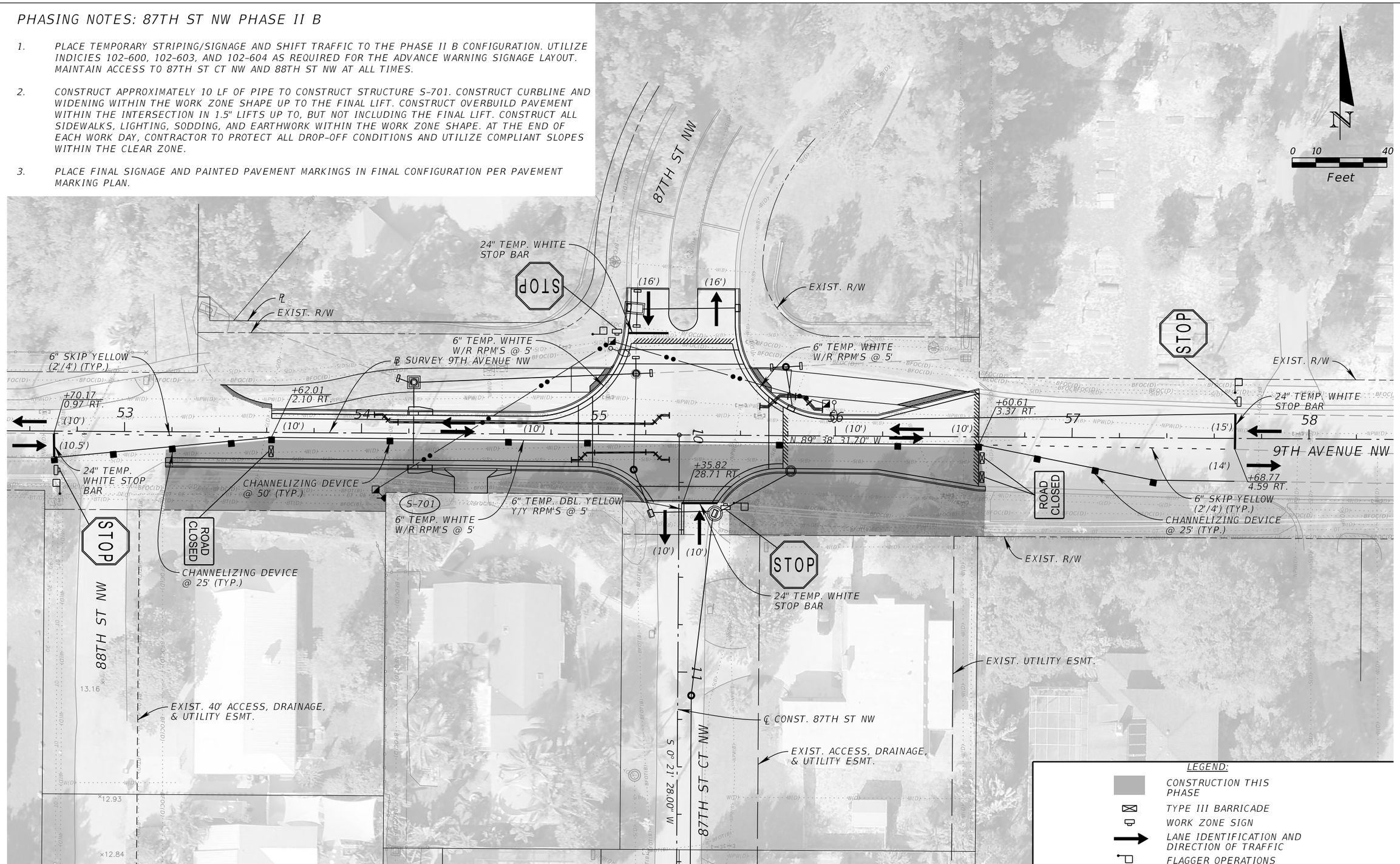
PHASING NOTES: 87TH ST NW PHASE II B

1. PLACE TEMPORARY STRIPING/SIGNAGE AND SHIFT TRAFFIC TO THE PHASE II B CONFIGURATION. UTILIZE INDICIES 102-600, 102-603, AND 102-604 AS REQUIRED FOR THE ADVANCE WARNING SIGNAGE LAYOUT. MAINTAIN ACCESS TO 87TH ST CT NW AND 88TH ST NW AT ALL TIMES.

2. CONSTRUCT APPROXIMATELY 10 LF OF PIPE TO CONSTRUCT STRUCTURE S-701. CONSTRUCT CURBLINE AND WIDENING WITHIN THE WORK ZONE SHAPE UP TO THE FINAL LIFT. CONSTRUCT OVERBUILD PAVEMENT WITHIN THE INTERSECTION IN 1.5" LIFTS UP TO, BUT NOT INCLUDING THE FINAL LIFT. CONSTRUCT ALL SIDEWALKS, LIGHTING, SODDING, AND EARTHWORK WITHIN THE WORK ZONE SHAPE. AT THE END OF EACH WORK DAY, CONTRACTOR TO PROTECT ALL DROP-OFF CONDITIONS AND UTILIZE COMPLIANT SLOPES WITHIN THE CLEAR ZONE.

3. PLACE FINAL SIGNAGE AND PAINTED PAVEMENT MARKINGS IN FINAL CONFIGURATION PER PAVEMENT MARKING PLAN.



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JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

TEMP TRAFFIC CONTROL 87TH ST. - PHASE II B

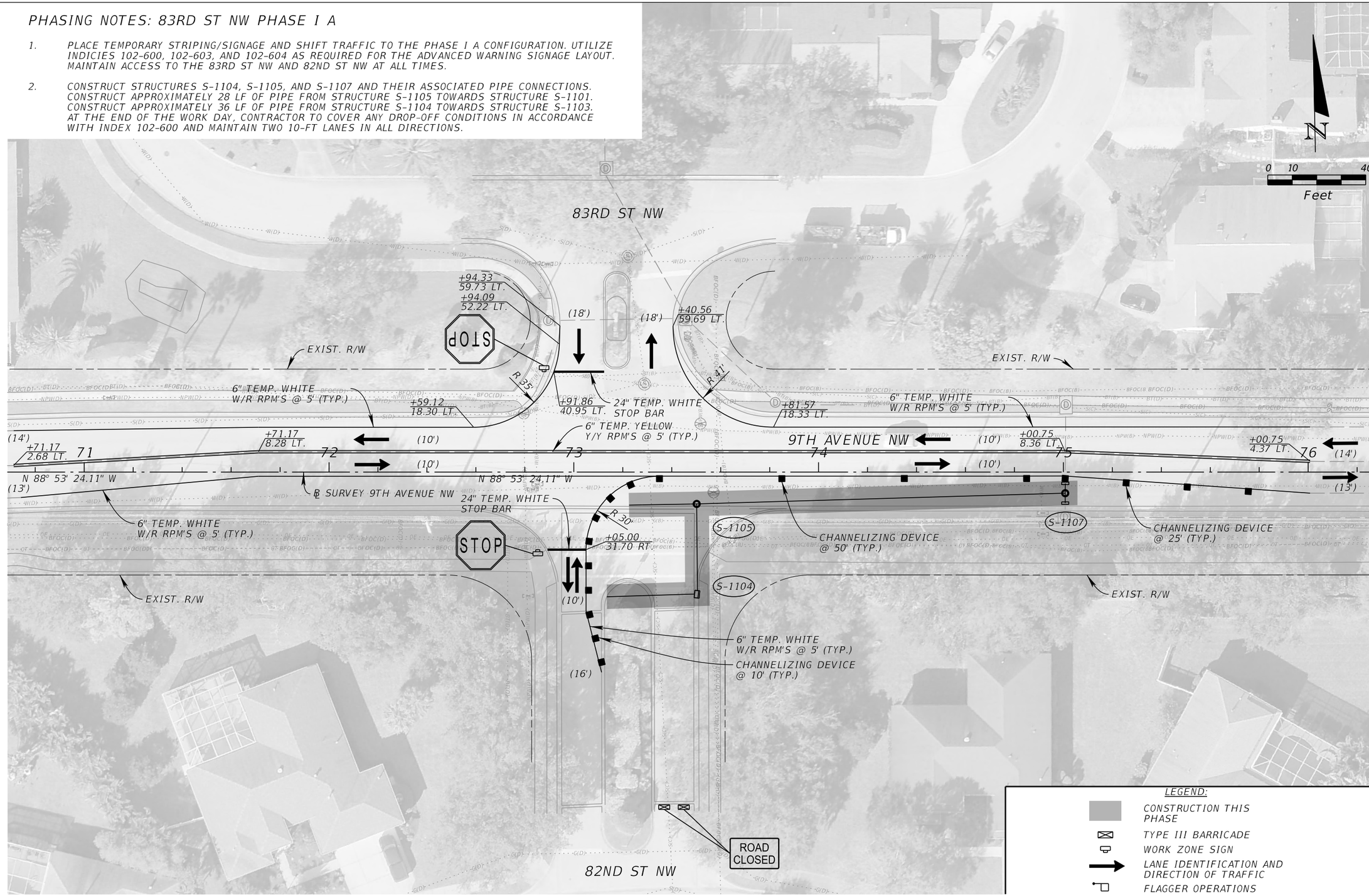
SHEET NUMBER 111

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

PHASING NOTES: 83RD ST NW PHASE I A

1. PLACE TEMPORARY STRIPING/SIGNAGE AND SHIFT TRAFFIC TO THE PHASE I A CONFIGURATION. UTILIZE INDICIES 102-600, 102-603, AND 102-604 AS REQUIRED FOR THE ADVANCED WARNING SIGNAGE LAYOUT. MAINTAIN ACCESS TO THE 83RD ST NW AND 82ND ST NW AT ALL TIMES.

2. CONSTRUCT STRUCTURES S-1104, S-1105, AND S-1107 AND THEIR ASSOCIATED PIPE CONNECTIONS. CONSTRUCT APPROXIMATELY 28 LF OF PIPE FROM STRUCTURE S-1105 TOWARDS STRUCTURE S-1101. CONSTRUCT APPROXIMATELY 36 LF OF PIPE FROM STRUCTURE S-1104 TOWARDS STRUCTURE S-1103. AT THE END OF THE WORK DAY, CONTRACTOR TO COVER ANY DROP-OFF CONDITIONS IN ACCORDANCE WITH INDEX 102-600 AND MAINTAIN TWO 10-FT LANES IN ALL DIRECTIONS.



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TEMP TRAFFIC CONTROL 83RD ST. - PHASE I A

SHEET NUMBER
112

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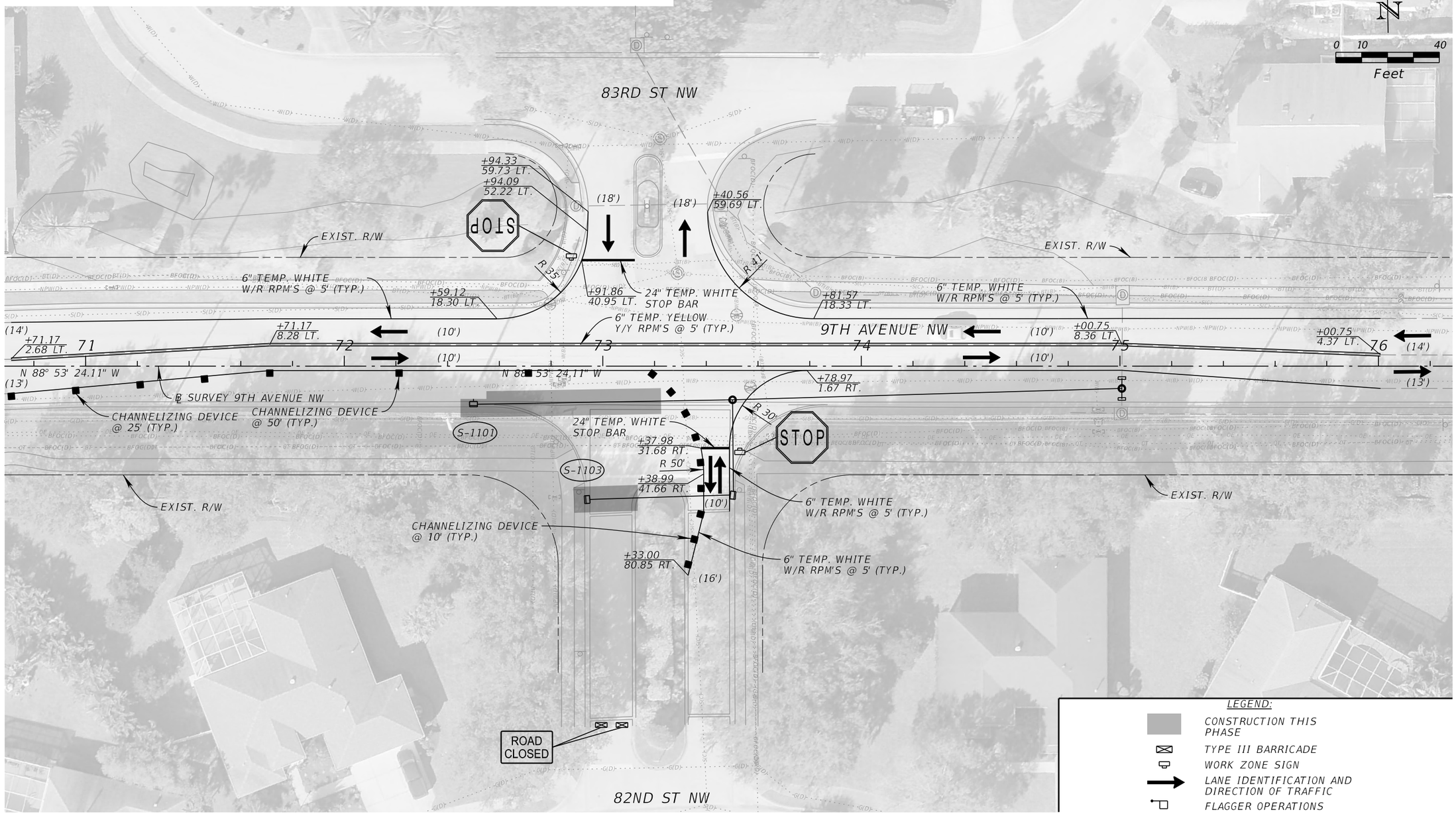
PHASING NOTES: 83RD ST NW PHASE I B

1. PLACE TEMPORARY STRIPING/SIGNAGE AND SHIFT TRAFFIC TO THE PHASE I B CONFIGURATION. UTILIZE INDICIES 102-600, 102-603, AND 102-604 AS REQUIRED FOR THE ADVANCED WARNING SIGNAGE LAYOUT. MAINTAIN ACCESS TO 83RD ST NW AND 82ND ST NW AT ALL TIMES.

2. CONSTRUCT APPROXIMATELY 19 LF OF PIPE TO CONSTRUCT AND MAKE CONNECTION TO STRUCTURE S-1103. CONSTRUCT APPROXIMATELY 71 LF OF PIPE TO CONSTRUCT AND MAKE CONNECTION TO STRUCTURE S-1101. AT THE END OF EACH WORK DAY, CONTRACTOR TO COVER ANY DROP-OFF CONDITIONS IN ACCORDANCE WITH INDEX 102-600 AND MAINTAIN TWO 10-FT LANES IN ALL DIRECTIONS.



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SHEET NUMBER
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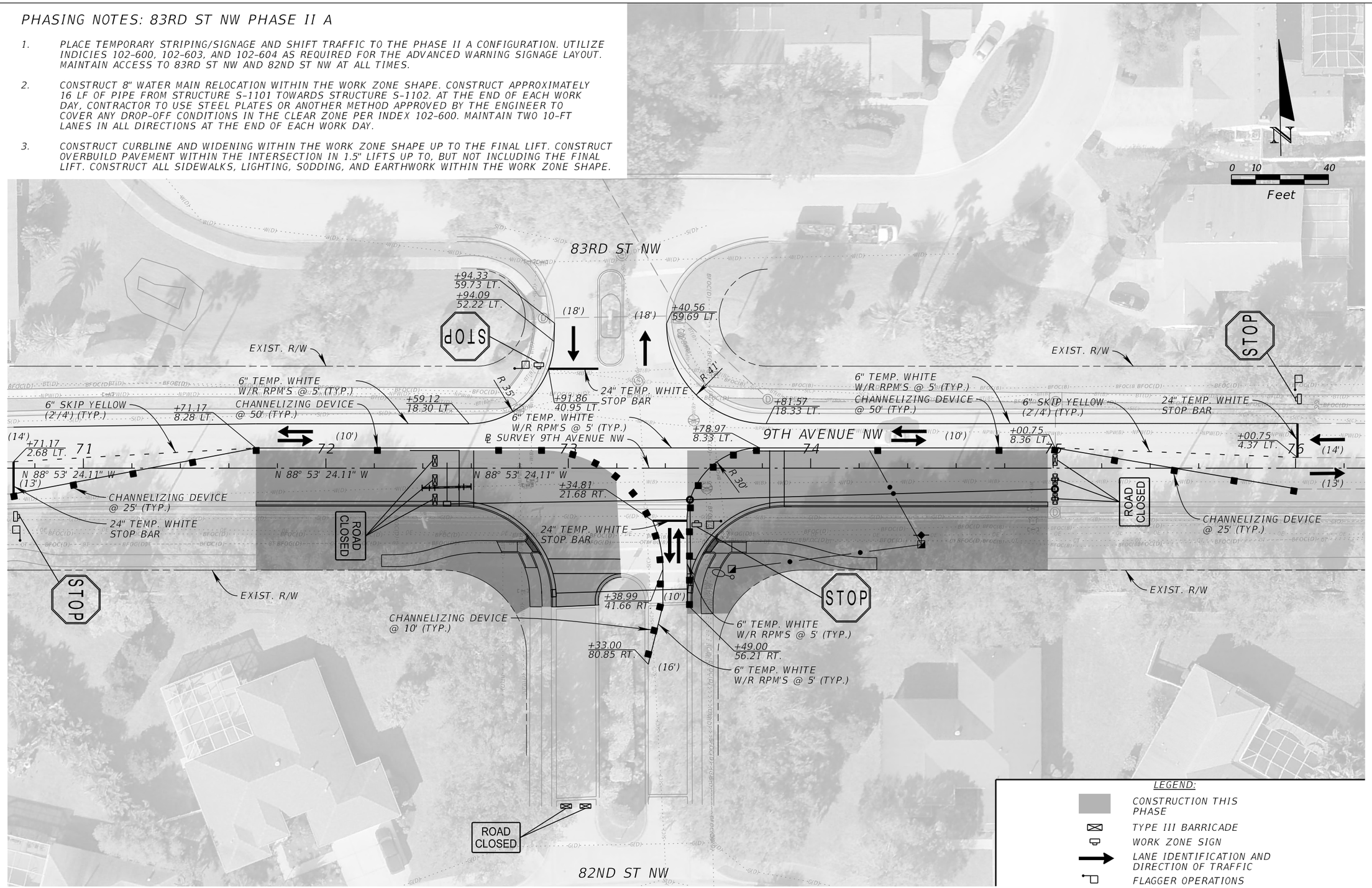
PHASING NOTES: 83RD ST NW PHASE II A

1. PLACE TEMPORARY STRIPING/SIGNAGE AND SHIFT TRAFFIC TO THE PHASE II A CONFIGURATION. UTILIZE INDICIES 102-600, 102-603, AND 102-604 AS REQUIRED FOR THE ADVANCED WARNING SIGNAGE LAYOUT. MAINTAIN ACCESS TO 83RD ST NW AND 82ND ST NW AT ALL TIMES.

2. CONSTRUCT 8" WATER MAIN RELOCATION WITHIN THE WORK ZONE SHAPE. CONSTRUCT APPROXIMATELY 16 LF OF PIPE FROM STRUCTURE S-1101 TOWARDS STRUCTURE S-1102. AT THE END OF EACH WORK DAY, CONTRACTOR TO USE STEEL PLATES OR ANOTHER METHOD APPROVED BY THE ENGINEER TO COVER ANY DROP-OFF CONDITIONS IN THE CLEAR ZONE PER INDEX 102-600. MAINTAIN TWO 10-FT LANES IN ALL DIRECTIONS AT THE END OF EACH WORK DAY.

3. CONSTRUCT CURBLINE AND WIDENING WITHIN THE WORK ZONE SHAPE UP TO THE FINAL LIFT. CONSTRUCT OVERBUILD PAVEMENT WITHIN THE INTERSECTION IN 1.5" LIFTS UP TO, BUT NOT INCLUDING THE FINAL LIFT. CONSTRUCT ALL SIDEWALKS, LIGHTING, SODDING, AND EARTHWORK WITHIN THE WORK ZONE SHAPE.



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TEMP TRAFFIC CONTROL 83RD ST. - PHASE II A

SHEET NUMBER 114

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

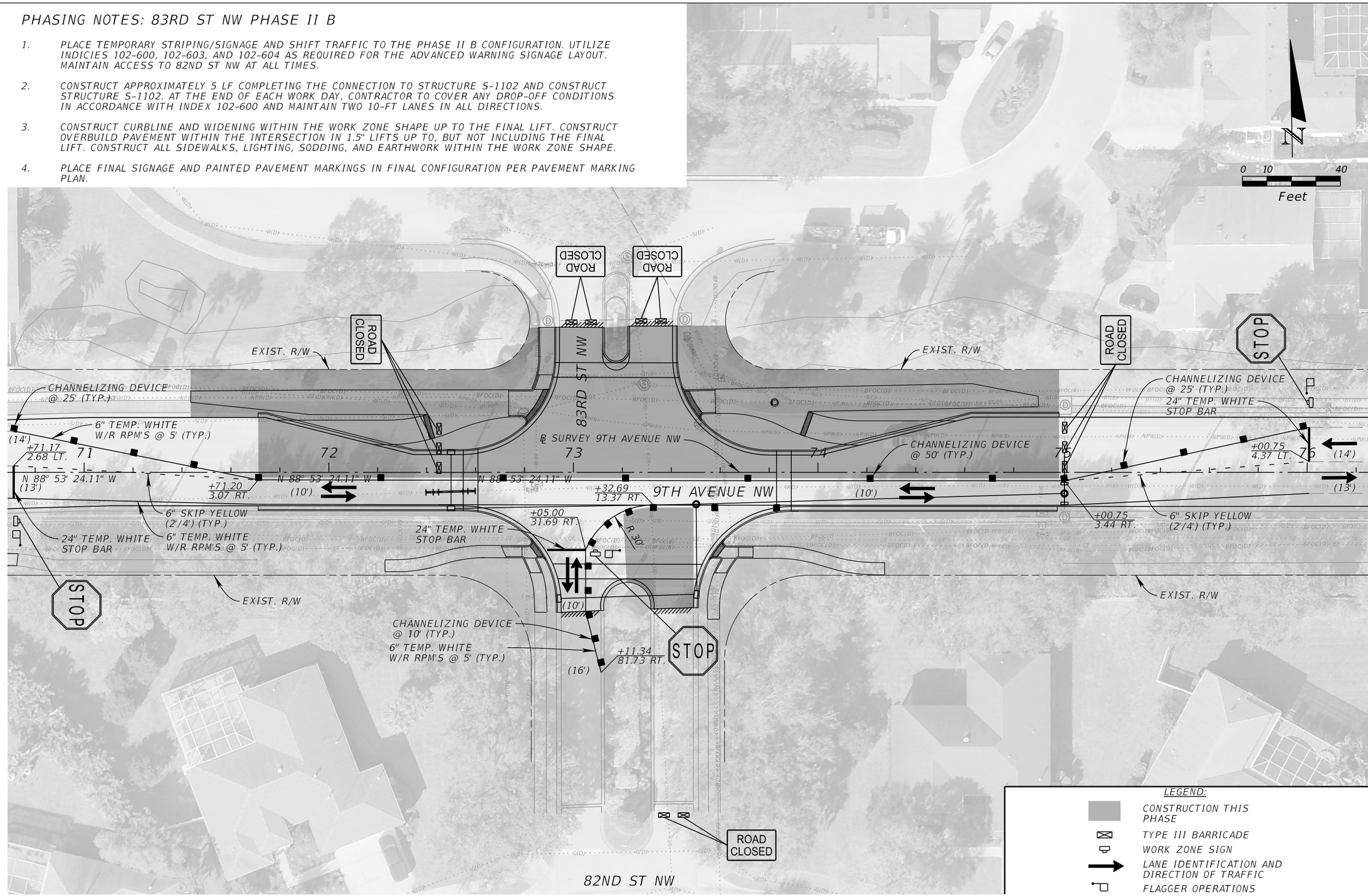
PHASING NOTES: 83RD ST NW PHASE II B

1. PLACE TEMPORARY STRIPING/SIGNAGE AND SHIFT TRAFFIC TO THE PHASE II B CONFIGURATION. UTILIZE INDICIES 102-600, 102-603, AND 102-604 AS REQUIRED FOR THE ADVANCED WARNING SIGNAGE LAYOUT. MAINTAIN ACCESS TO 82ND ST NW AT ALL TIMES.

2. CONSTRUCT APPROXIMATELY 5 LF COMPLETING THE CONNECTION TO STRUCTURE S-1102 AND CONSTRUCT STRUCTURE S-1102. AT THE END OF EACH WORK DAY, CONTRACTOR TO COVER ANY DROP-OFF CONDITIONS IN ACCORDANCE WITH INDEX 102-600 AND MAINTAIN TWO 10-FT LANES IN ALL DIRECTIONS.

3. CONSTRUCT CURBLINE AND WIDENING WITHIN THE WORK ZONE SHAPE UP TO THE FINAL LIFT. CONSTRUCT OVERBUILD PAVEMENT WITHIN THE INTERSECTION IN 1.5" LIFTS UP TO, BUT NOT INCLUDING THE FINAL LIFT. CONSTRUCT ALL SIDEWALKS, LIGHTING, SODDING, AND EARTHWORK WITHIN THE WORK ZONE SHAPE.

4. PLACE FINAL SIGNAGE AND PAINTED PAVEMENT MARKINGS IN FINAL CONFIGURATION PER PAVEMENT MARKING PLAN.



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SHEET NUMBER 115

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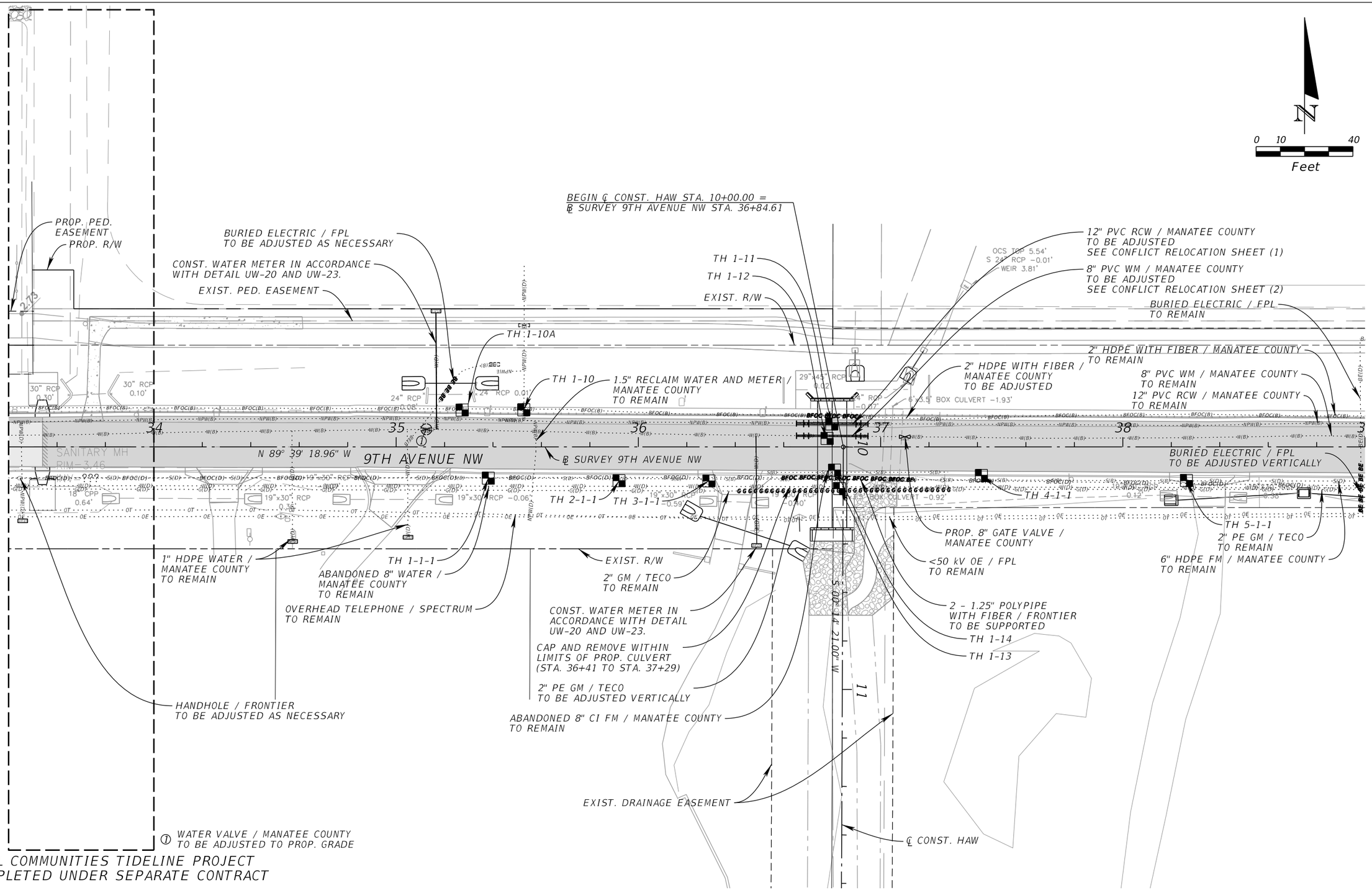

NEAL COMMUNITIES TIDELINE PROJECT
COMPLETED UNDER SEPARATE CONTRACT

No.	REVISIONS	DATE	BY

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FL LICENSE NUMBER 76102
DATE:

UTILITY ADJUSTMENT SHEET (1)

SHEET NUMBER 116

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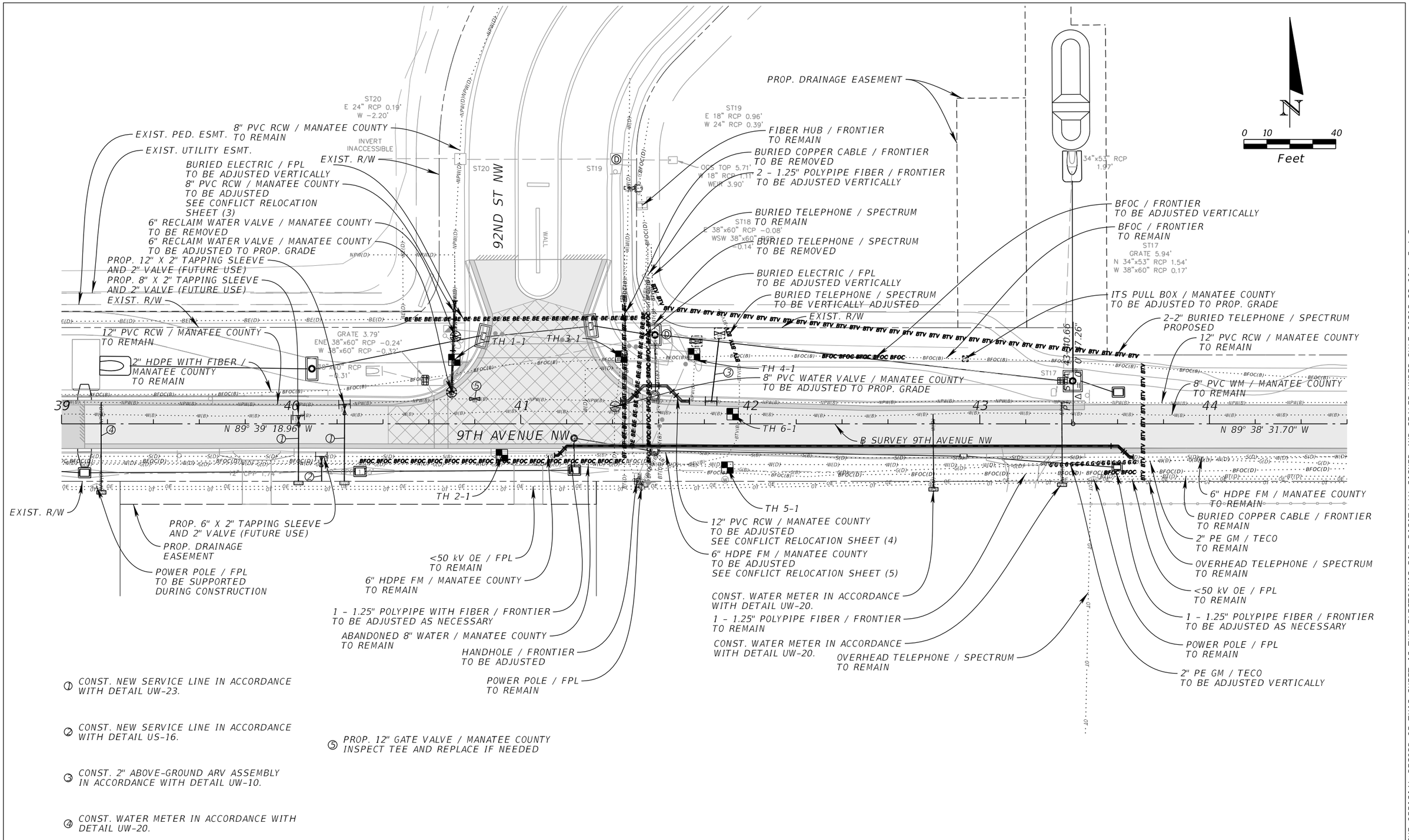

① CONST. NEW SERVICE LINE IN ACCORDANCE WITH DETAIL UW-23.

② CONST. NEW SERVICE LINE IN ACCORDANCE WITH DETAIL US-16.

③ CONST. 2" ABOVE-GROUND ARV ASSEMBLY IN ACCORDANCE WITH DETAIL UW-10.

④ CONST. WATER METER IN ACCORDANCE WITH DETAIL UW-20.

⑤ PROP. 12" GATE VALVE / MANATEE COUNTY INSPECT TEE AND REPLACE IF NEEDED

No.	REVISIONS	DATE	BY

Kimley»Horn

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1800 SECOND STREET, SUITE 900, SARASOTA, FL 34236
PHONE: 941-379-7600
WWW.KIMLEY-HORN.COM

KHA PROJECT 148400070
DATE 10/02/2025
SCALE AS SHOWN
DESIGNED BY
DRAWN BY
CHECKED BY

Manatee County FLORIDA

9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

UTILITY ADJUSTMENT SHEET (2)

SHEET NUMBER 117

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

① 1" WATER / MANATEE COUNTY TO REMAIN

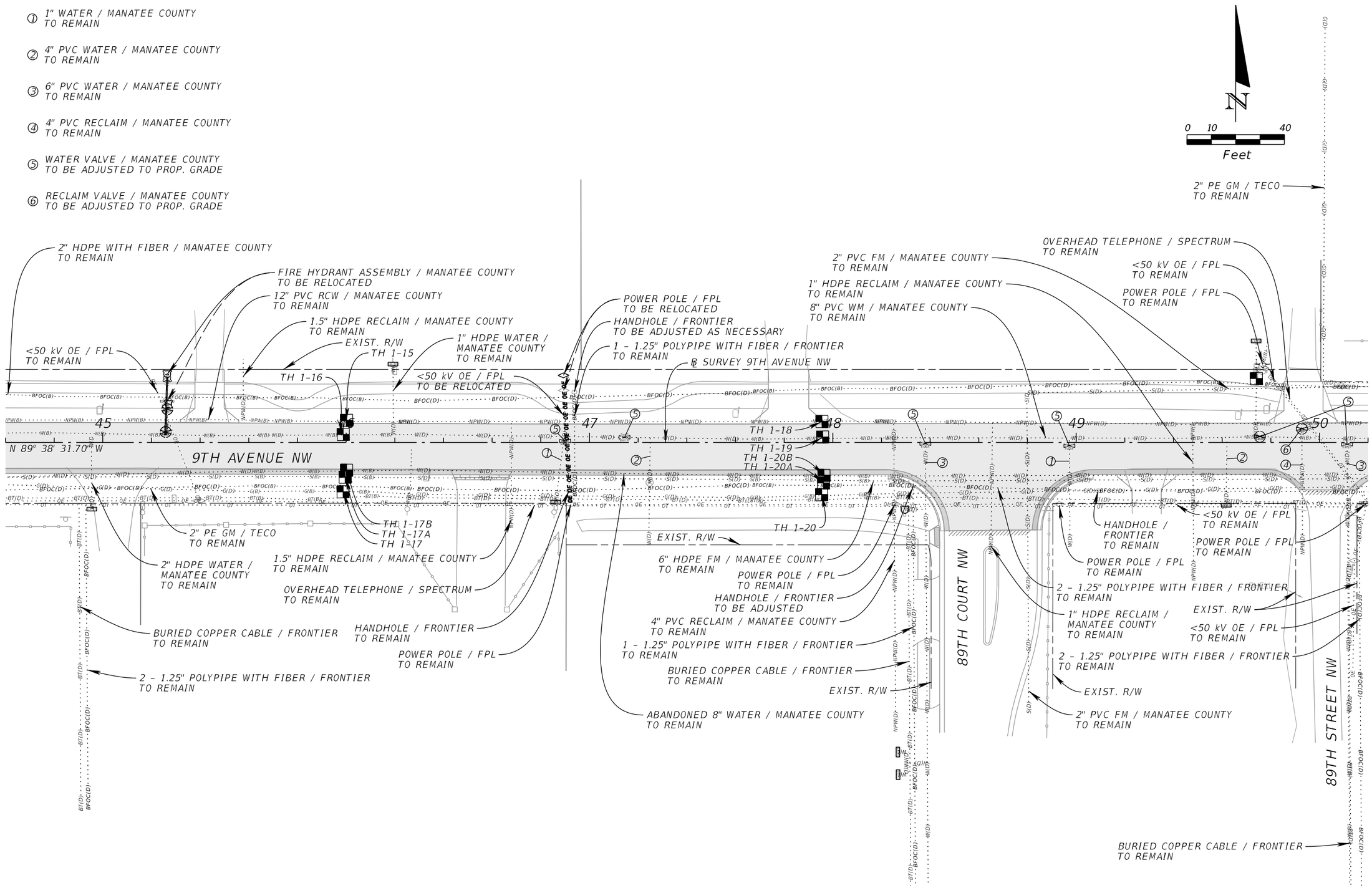
② 4" PVC WATER / MANATEE COUNTY TO REMAIN

③ 6" PVC WATER / MANATEE COUNTY TO REMAIN

④ 4" PVC RECLAIM / MANATEE COUNTY TO REMAIN

⑤ WATER VALVE / MANATEE COUNTY TO BE ADJUSTED TO PROP. GRADE

⑥ RECLAIM VALVE / MANATEE COUNTY TO BE ADJUSTED TO PROP. GRADE



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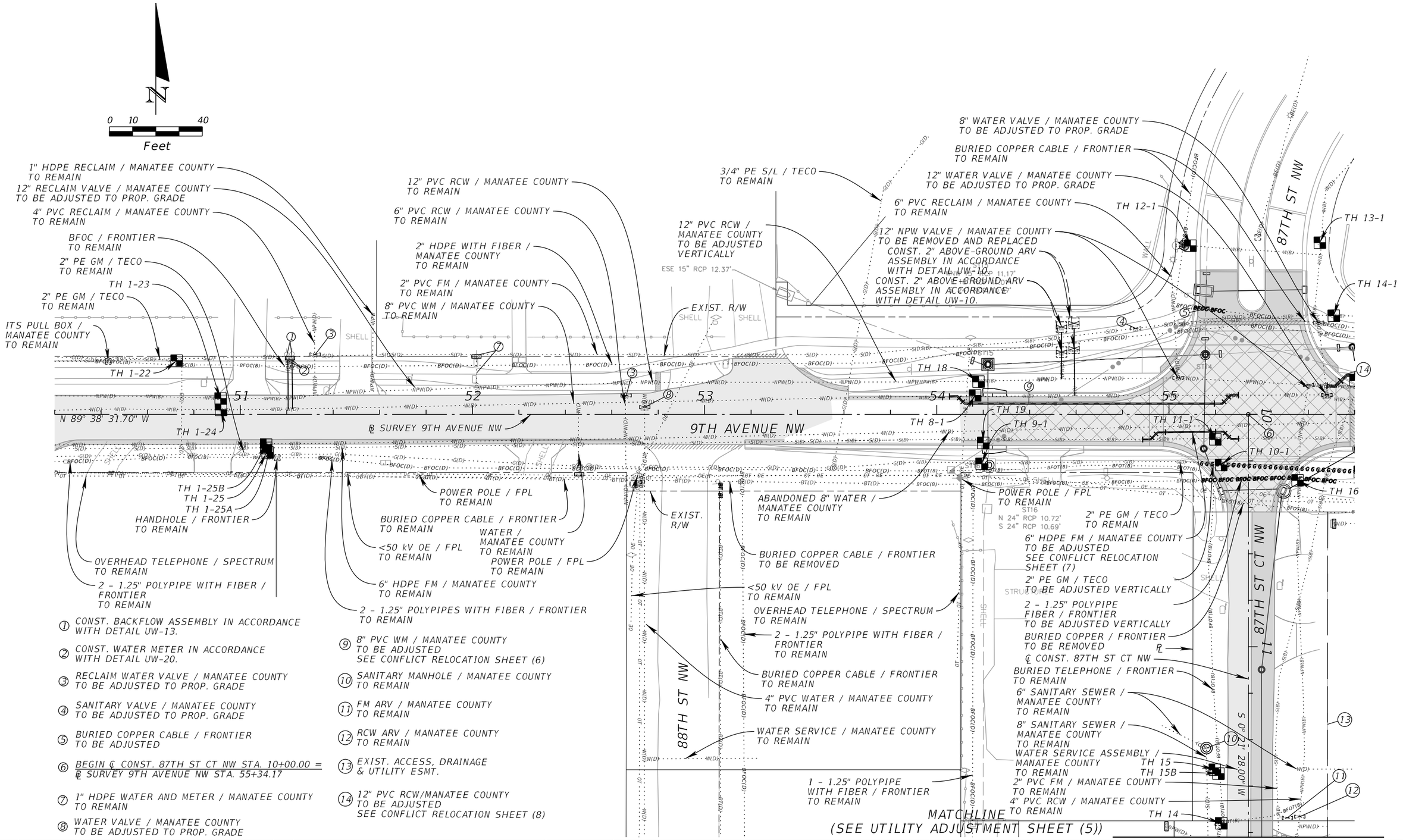
9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

UTILITY ADJUSTMENT SHEET (3)

SHEET NUMBER 118



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9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

UTILITY ADJUSTMENT SHEET (4)

SHEET NUMBER 119

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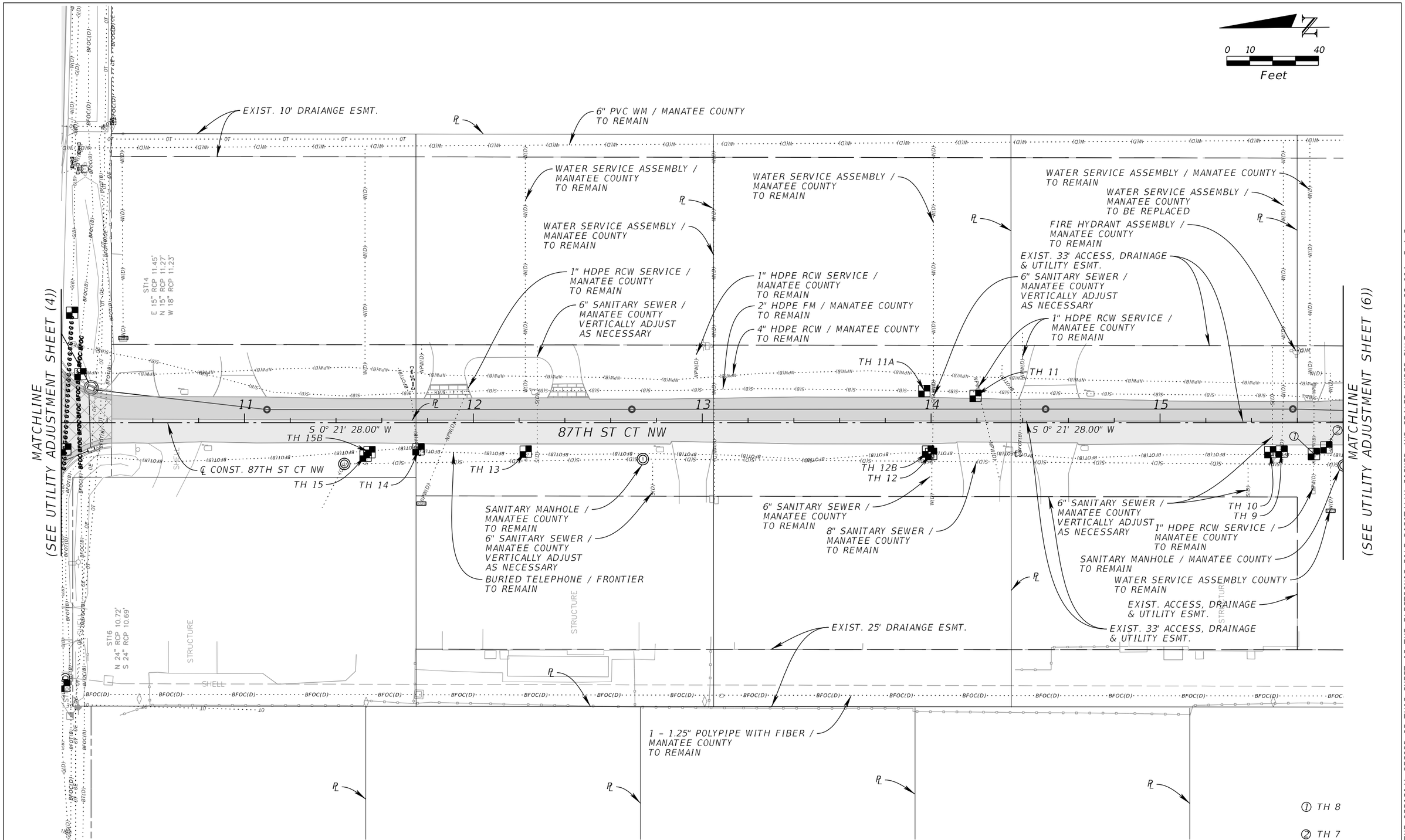

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9TH AVENUE NW

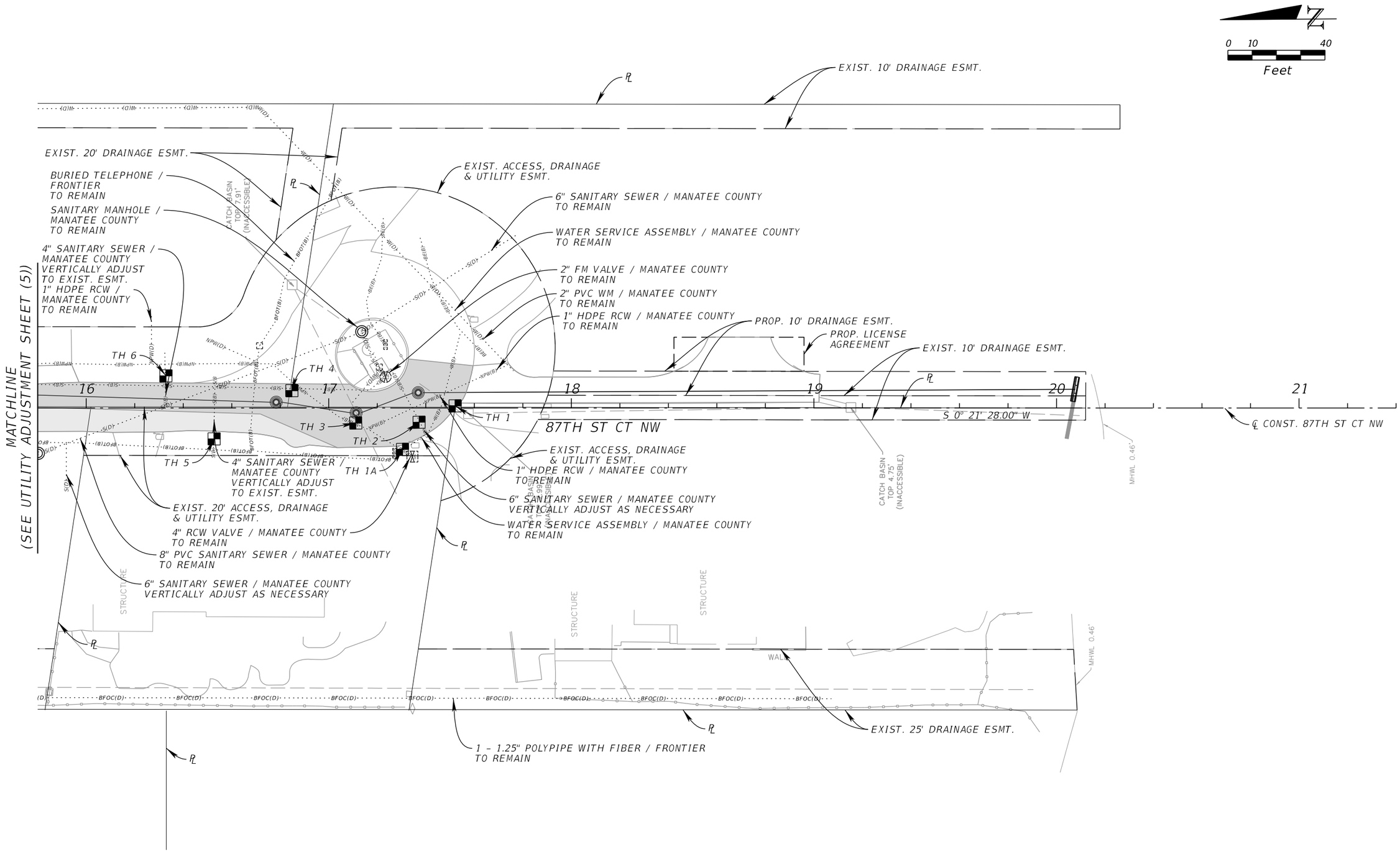
MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

UTILITY ADJUSTMENT SHEET (5)

SHEET NUMBER
120

Susan.Pluta 10/1/2025 5:33:31 PM Default K:\SAR_Roadway\148400070_9thAve\148400070\utils\UTADRD09.dgn



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9TH AVENUE NW

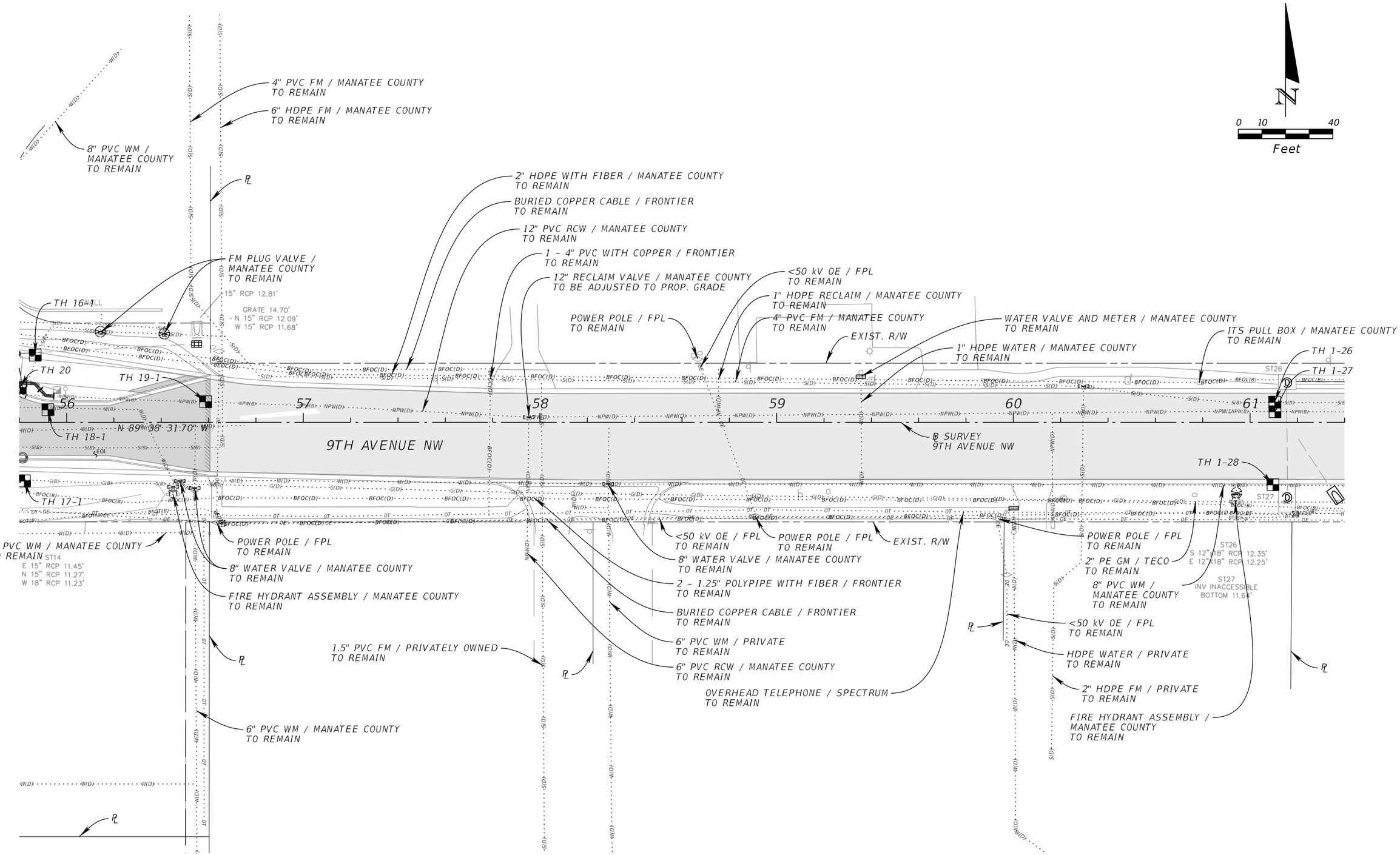
MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

UTILITY ADJUSTMENT SHEET (6)

SHEET NUMBER 121

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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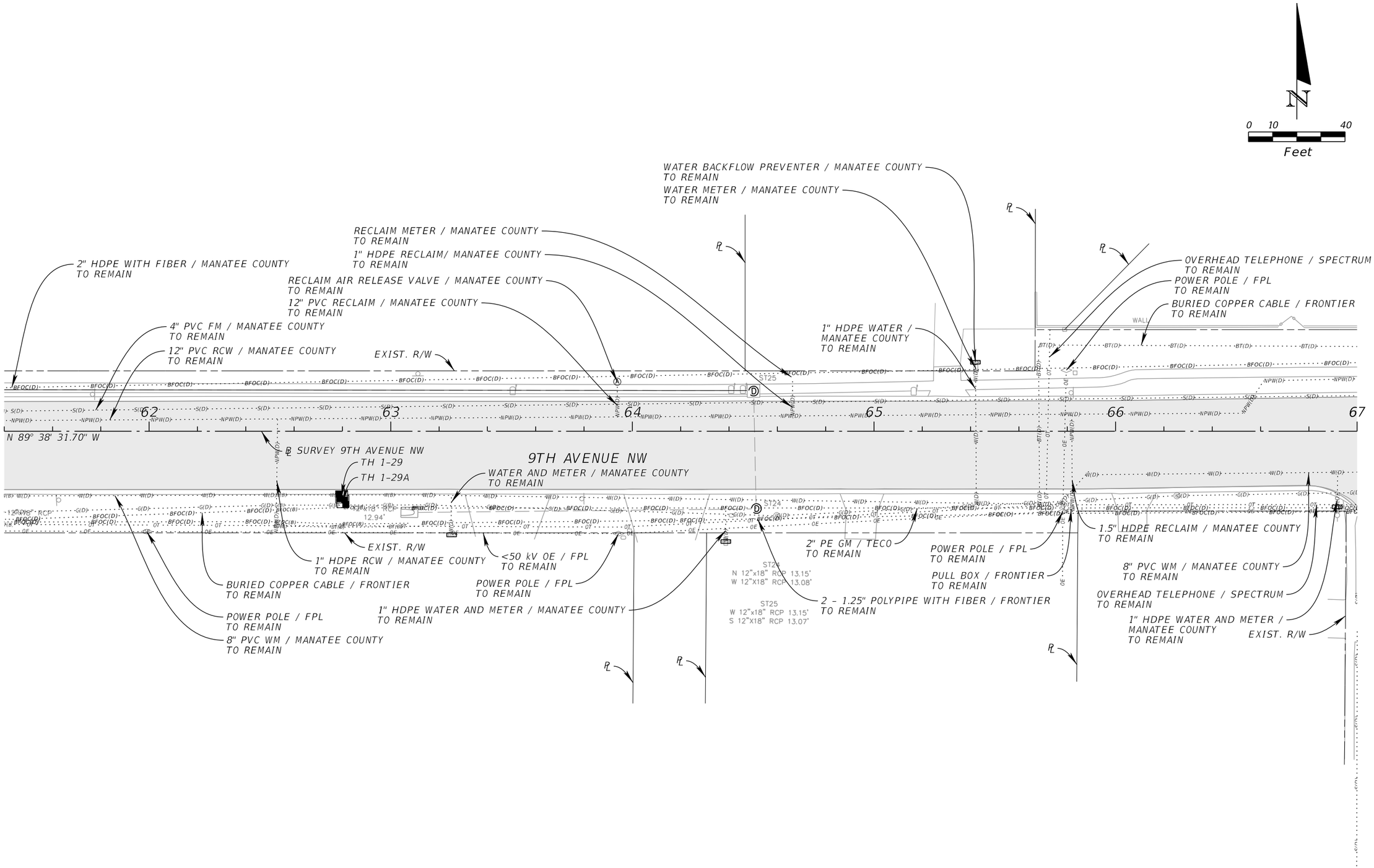
MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

UTILITY ADJUSTMENT SHEET (7)

SHEET NUMBER 122



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Manatee County FLORIDA

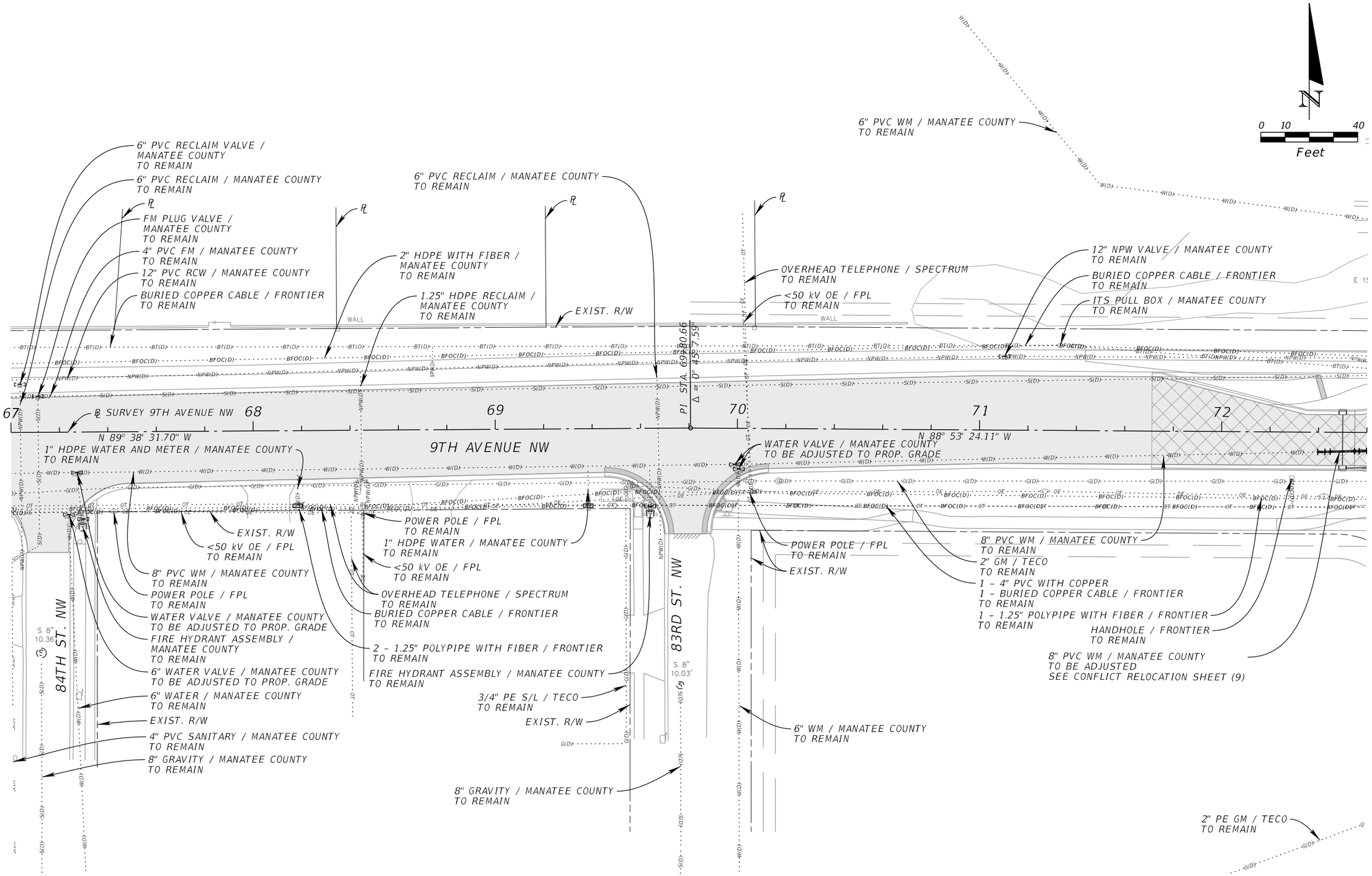
9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

UTILITY ADJUSTMENT SHEET (8)

SHEET NUMBER 123



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Manatee County FLORIDA

9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

UTILITY ADJUSTMENT SHEET (9)

SHEET NUMBER
124

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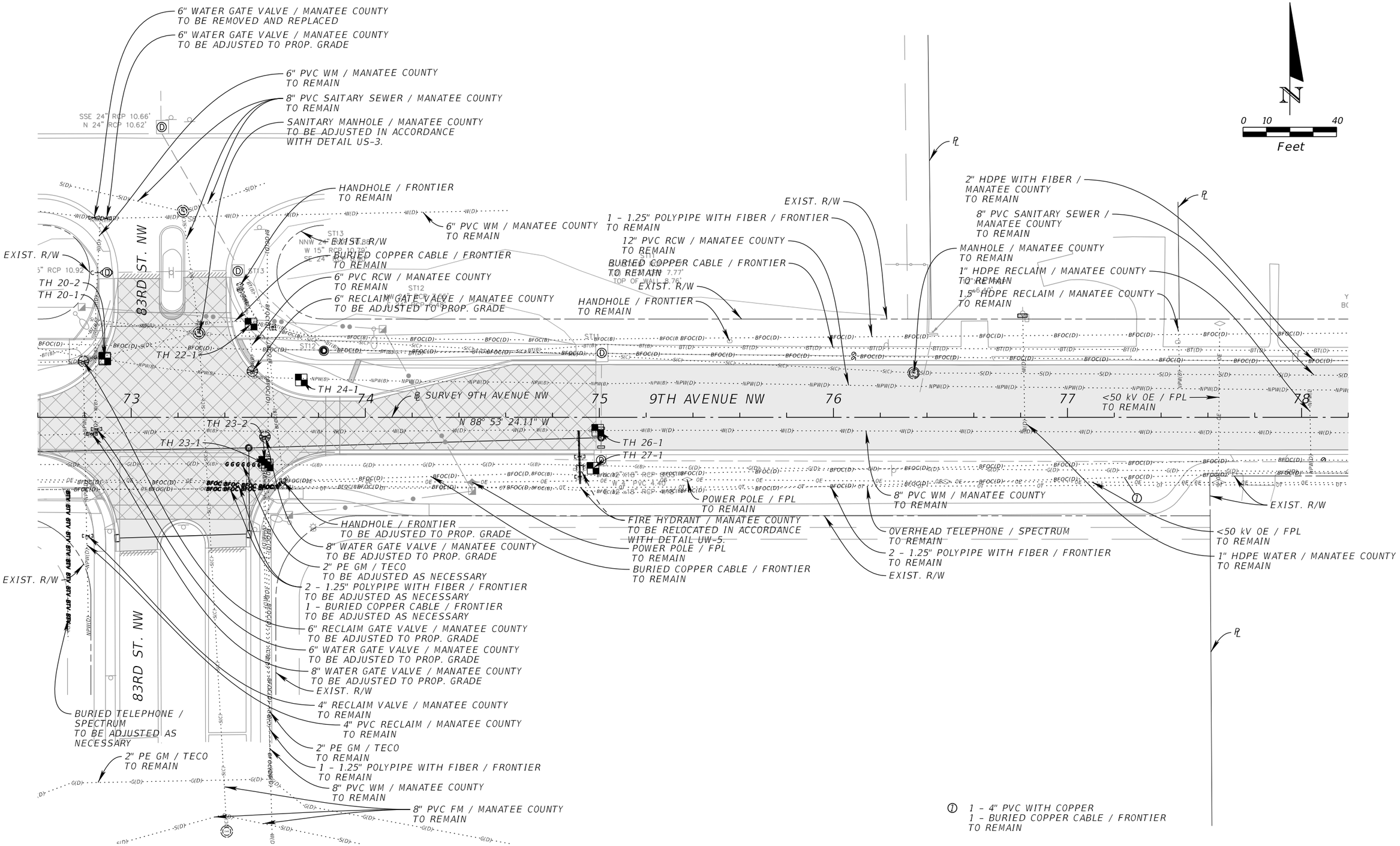

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Manatee County FLORIDA

9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

UTILITY ADJUSTMENT SHEET (10)

SHEET NUMBER
125

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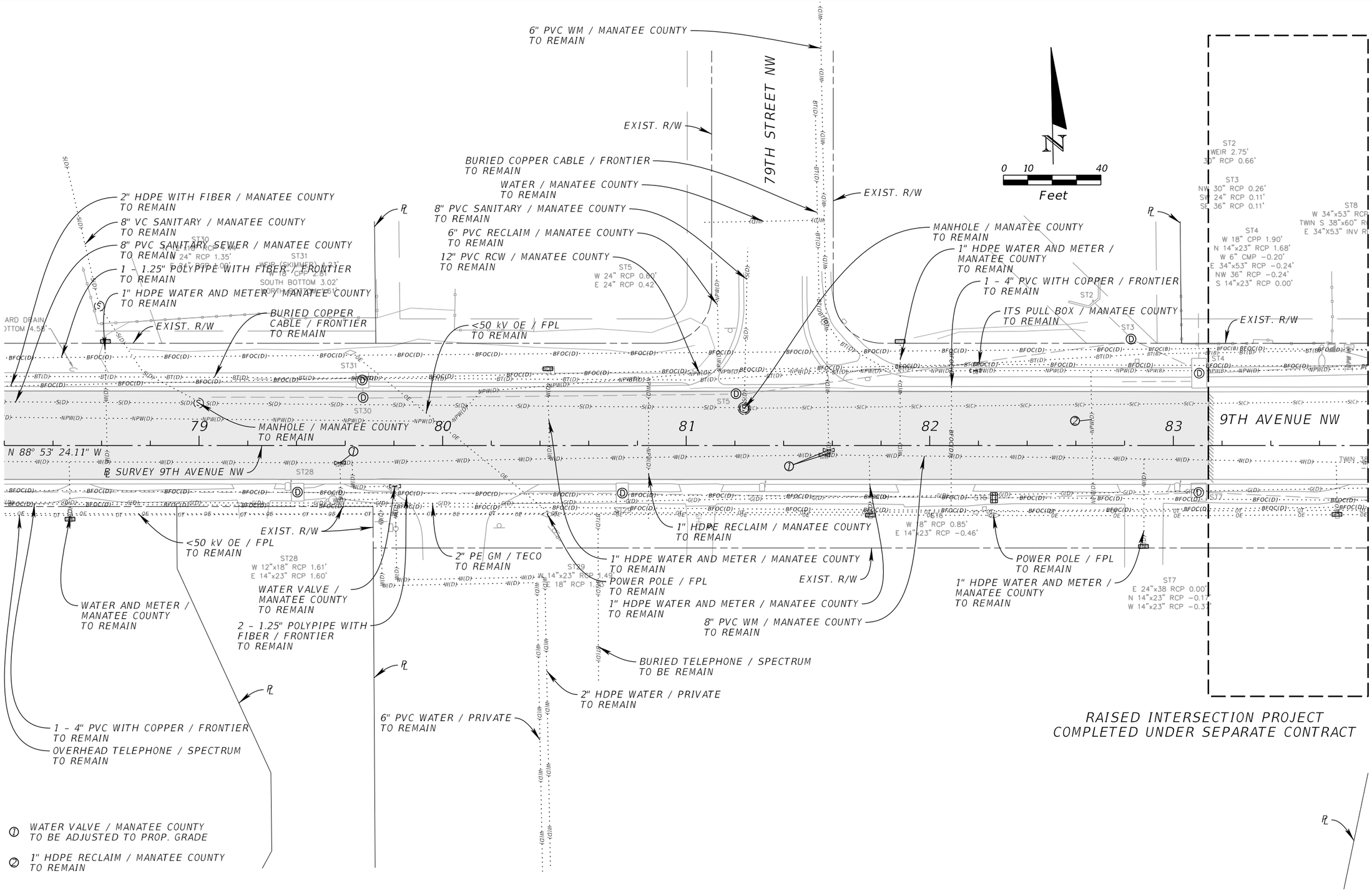

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9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

UTILITY ADJUSTMENT SHEET (11)

SHEET NUMBER 126

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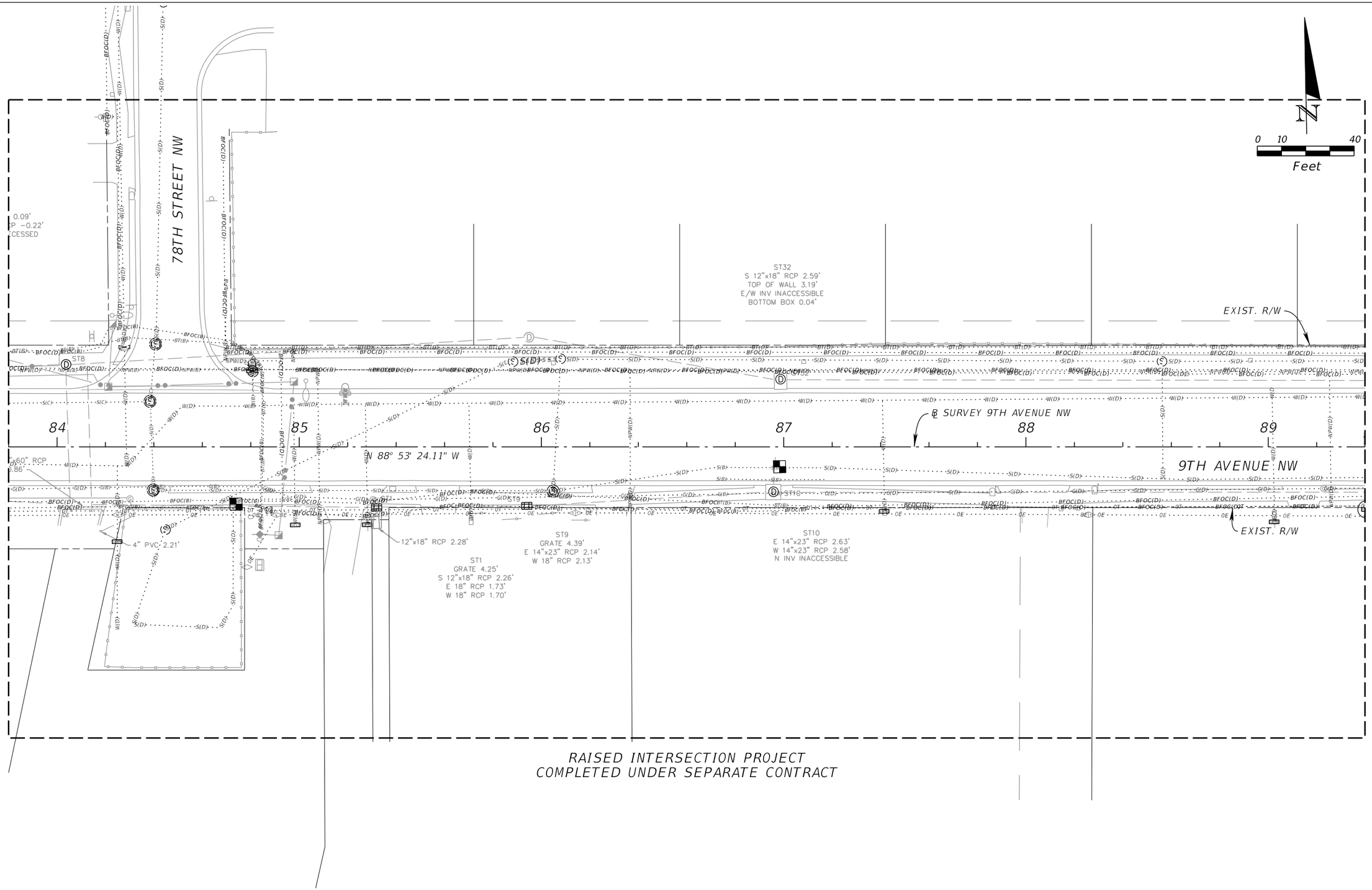

RAISED INTERSECTION PROJECT
COMPLETED UNDER SEPARATE CONTRACT

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Manatee County FLORIDA

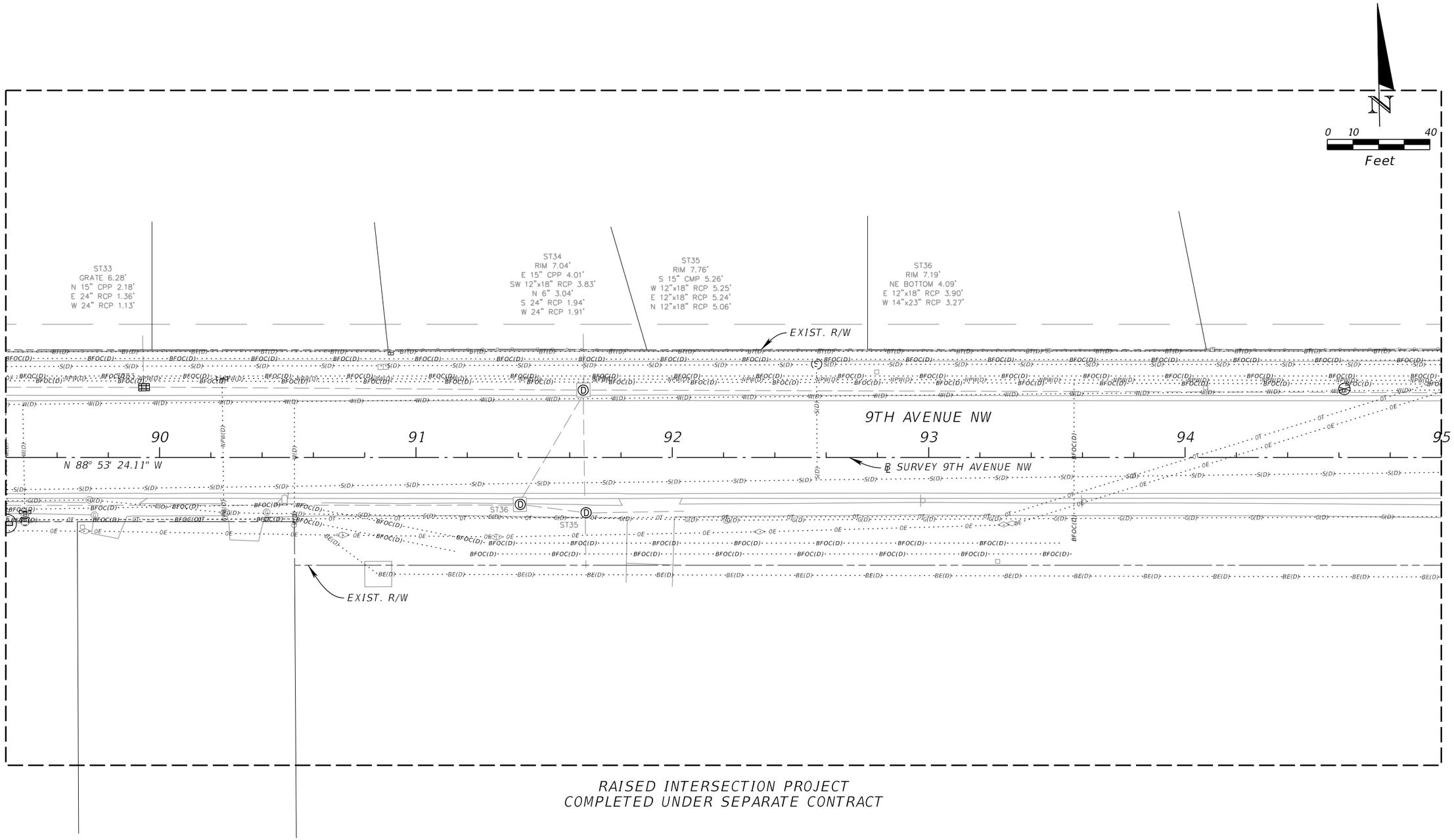
9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

UTILITY ADJUSTMENT SHEET (12)

SHEET NUMBER
127



RAISED INTERSECTION PROJECT
COMPLETED UNDER SEPARATE CONTRACT

No.	REVISIONS	DATE	BY

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Manatee County FLORIDA

9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

UTILITY ADJUSTMENT SHEET (13)

SHEET NUMBER
128

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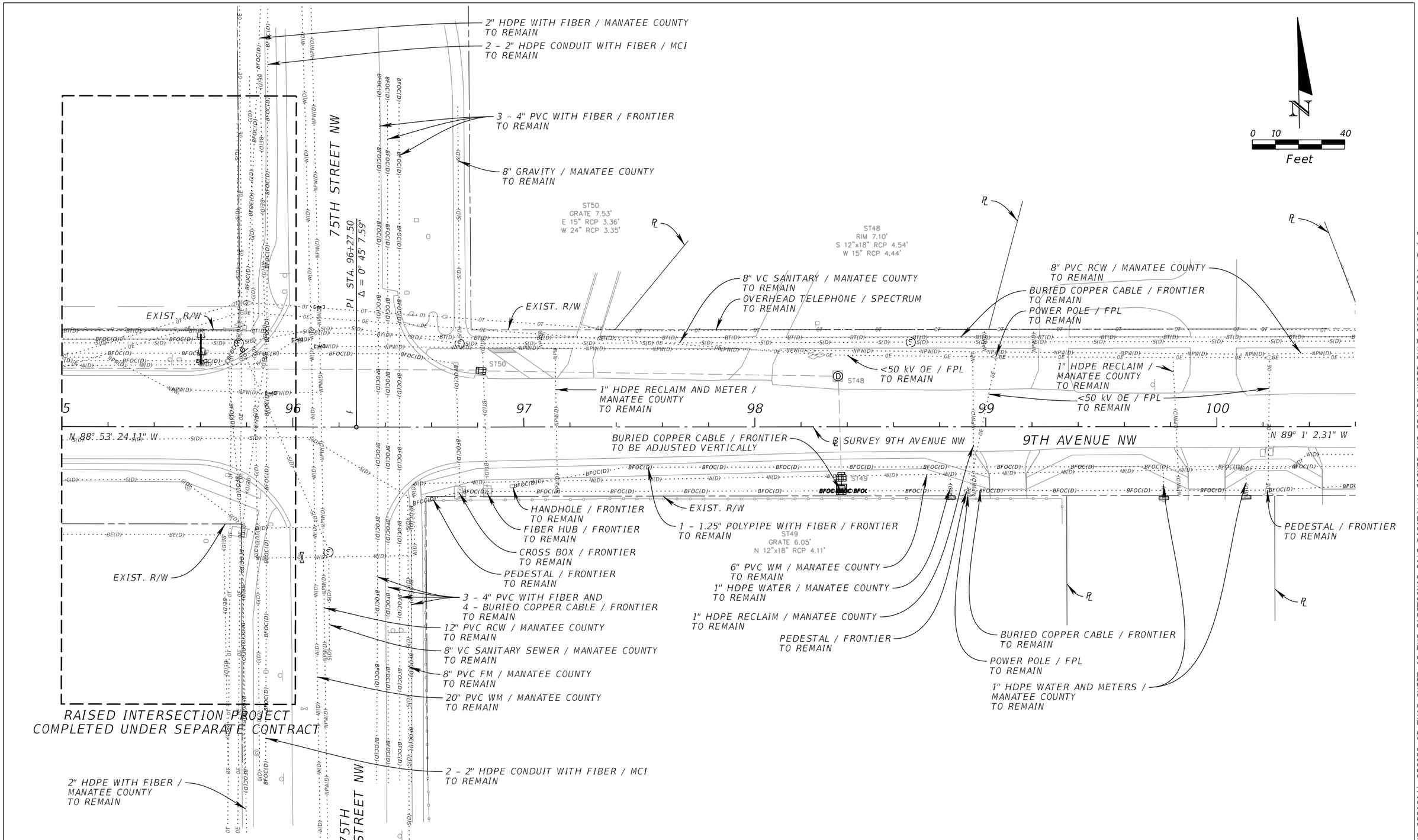

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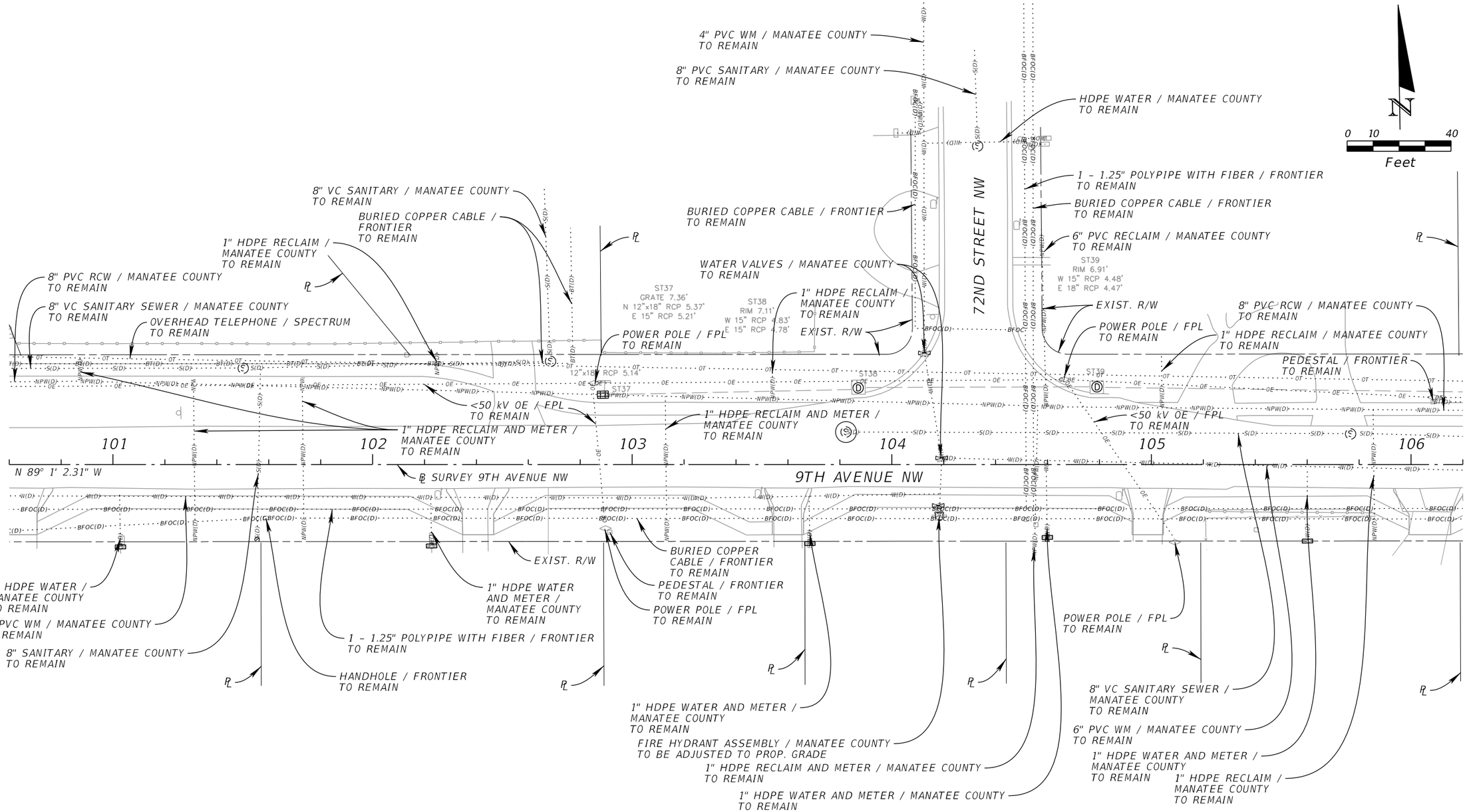
9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

UTILITY ADJUSTMENT SHEET (14)

SHEET NUMBER
129



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9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

UTILITY ADJUSTMENT SHEET (15)

SHEET NUMBER
130

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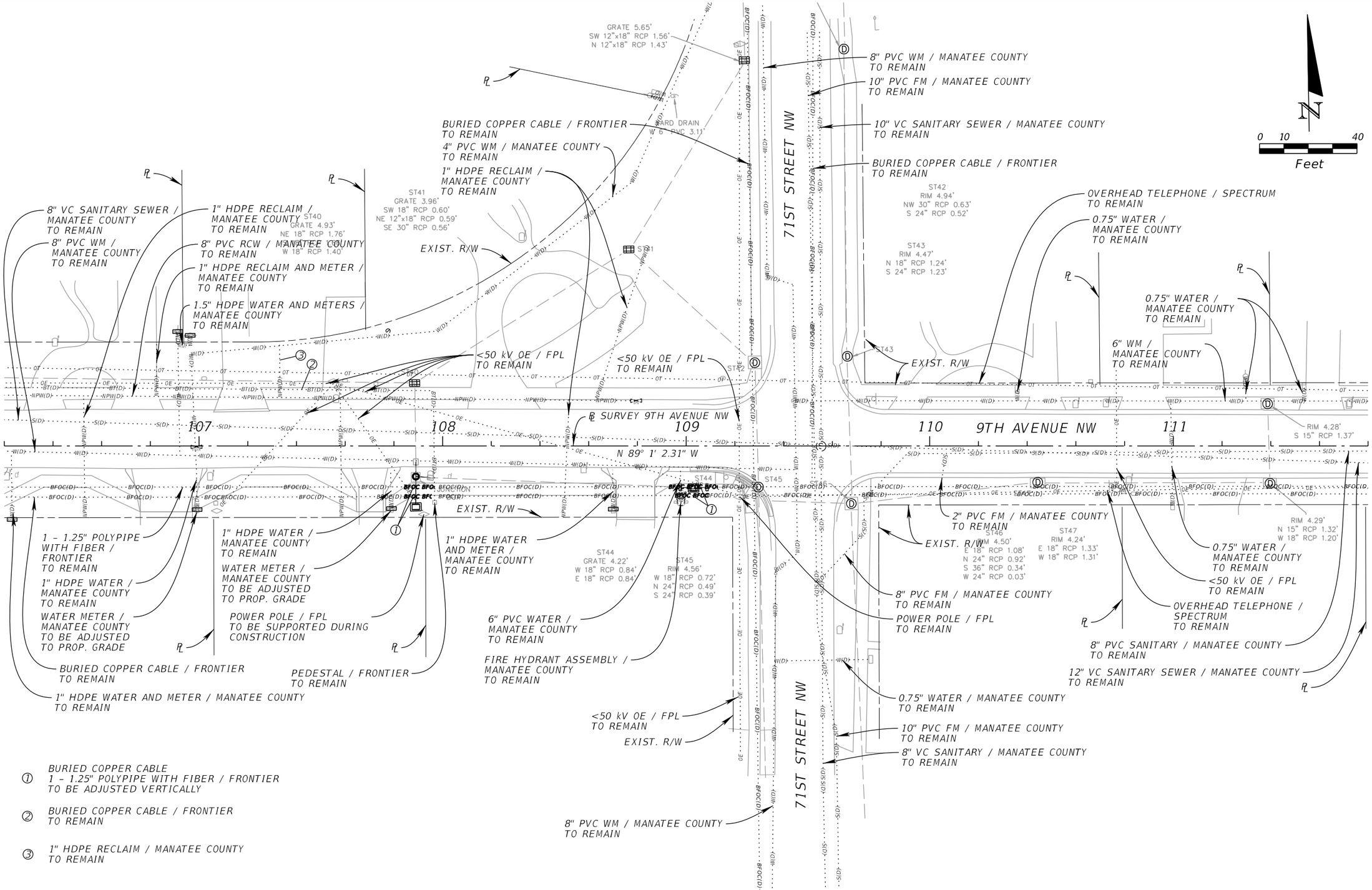

① BURIED COPPER CABLE
1 - 1.25" POLYPIPE WITH FIBER / FRONTIER
TO BE ADJUSTED VERTICALLY

② BURIED COPPER CABLE / FRONTIER
TO REMAIN

③ 1" HDPE RECLAIM / MANATEE COUNTY
TO REMAIN

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Manatee County FLORIDA

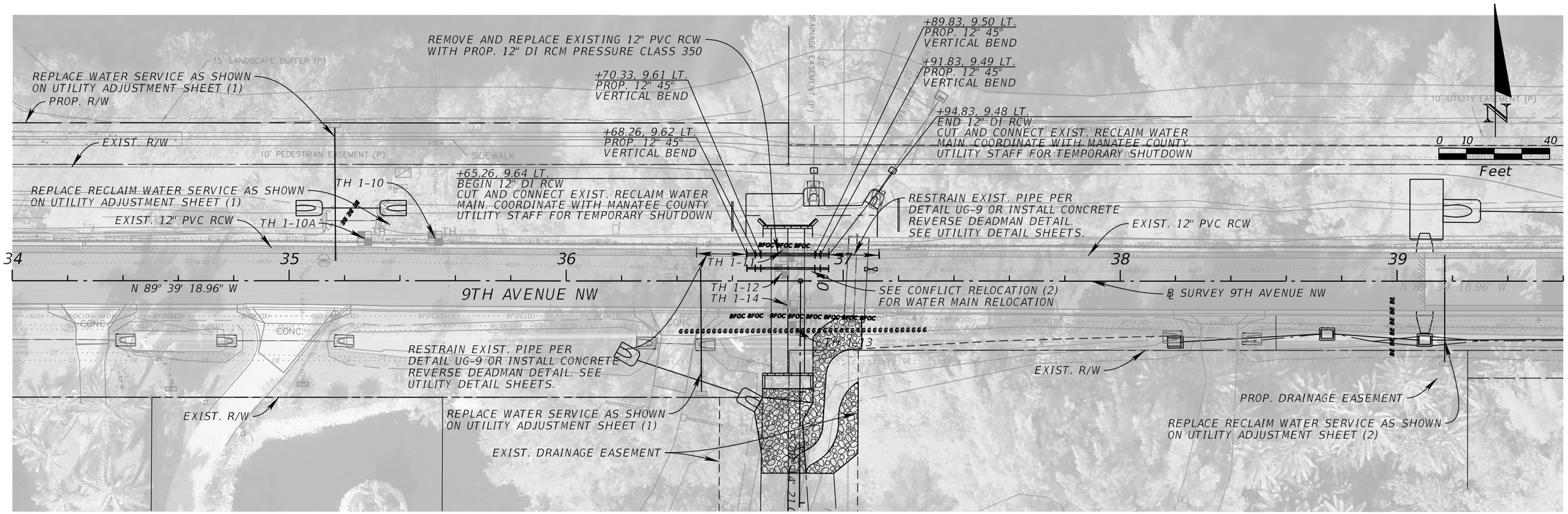
9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

UTILITY ADJUSTMENT SHEET (16)

SHEET NUMBER
131



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9TH AVENUE NW

MANATEE COUNTY FL

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JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

CONFLICT RELOCATION (1)
[[STA. 34+00 - STA. 39+60]]

SHEET NUMBER
132

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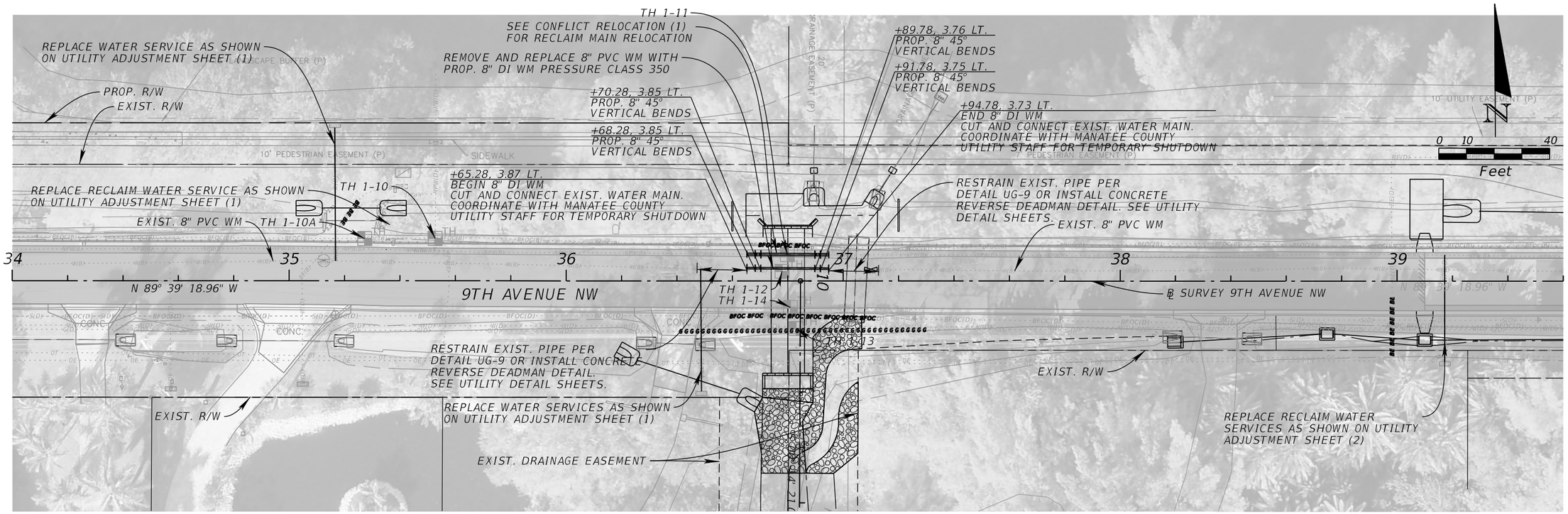

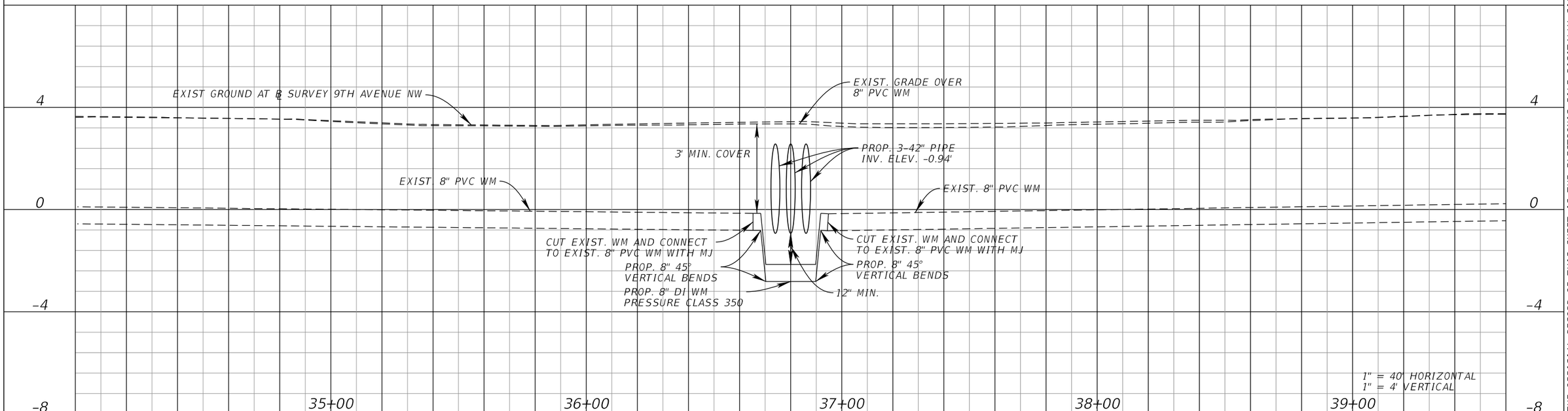

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9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

CONFLICT RELOCATION (2)
[[STA. 34+00 - STA. 39+60]]

SHEET NUMBER
133

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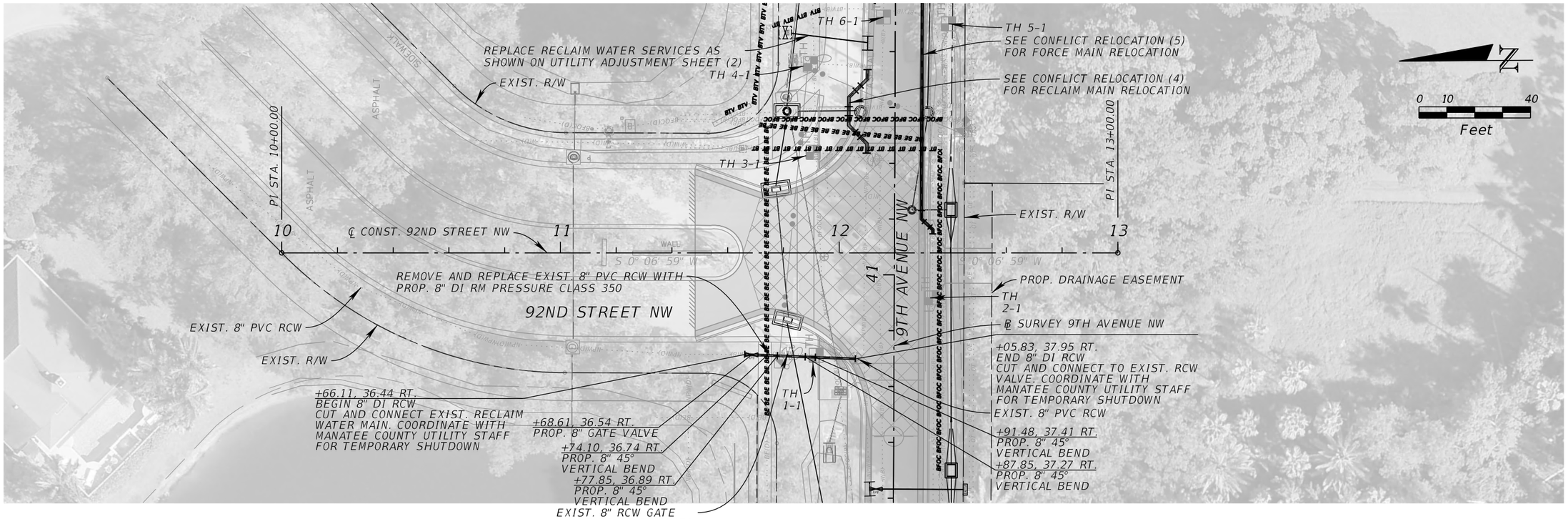

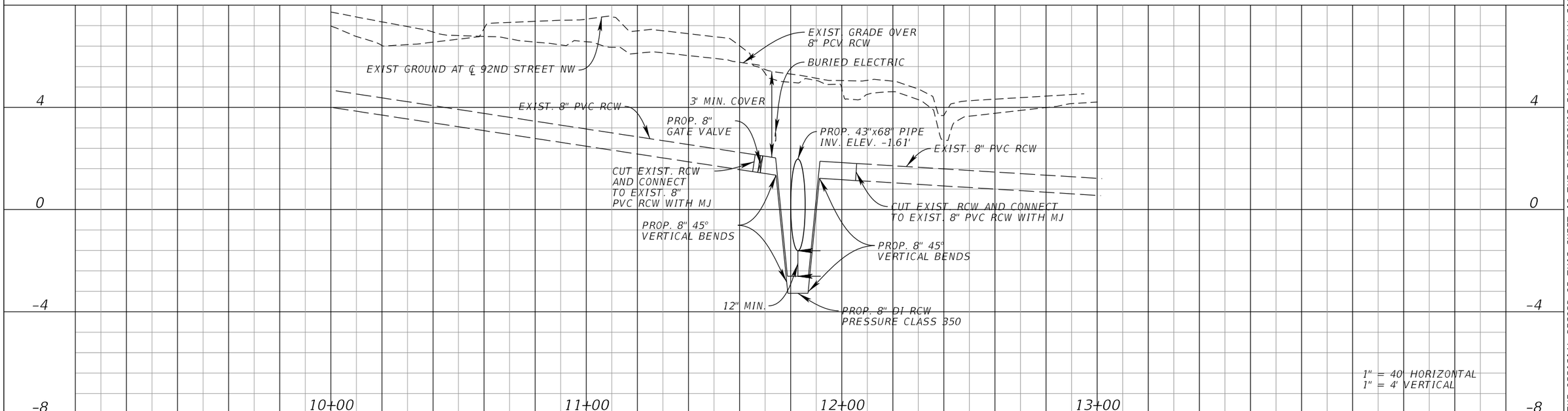

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9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

CONFLICT RELOCATION (3)
[[92ND STREET NW]]

SHEET NUMBER
134

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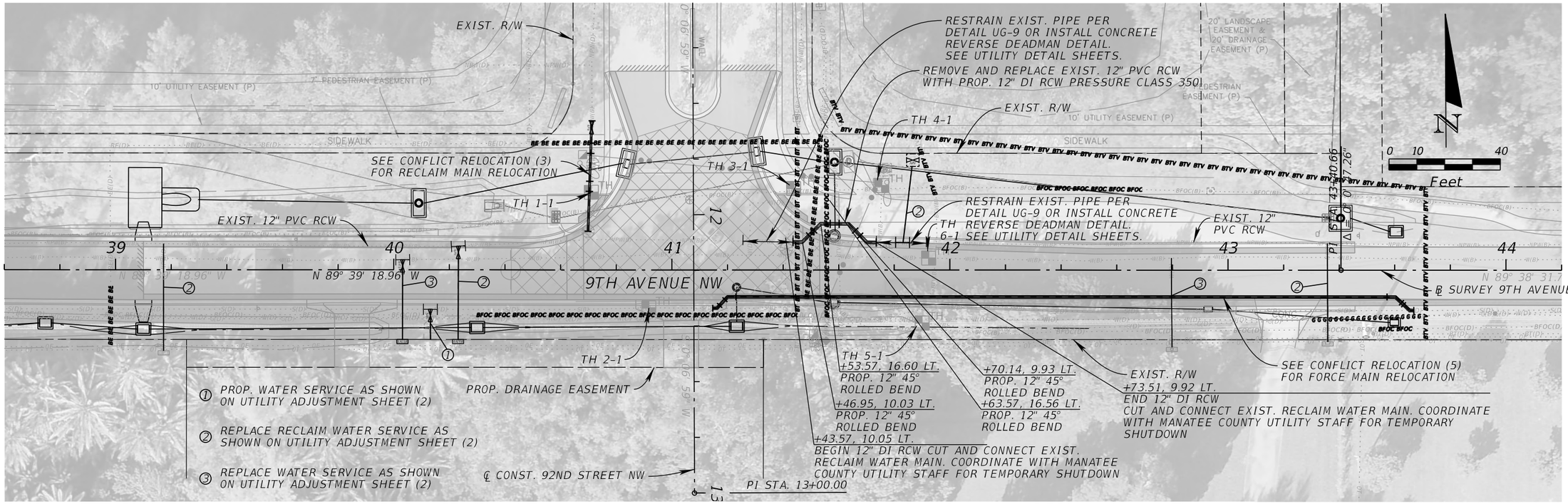

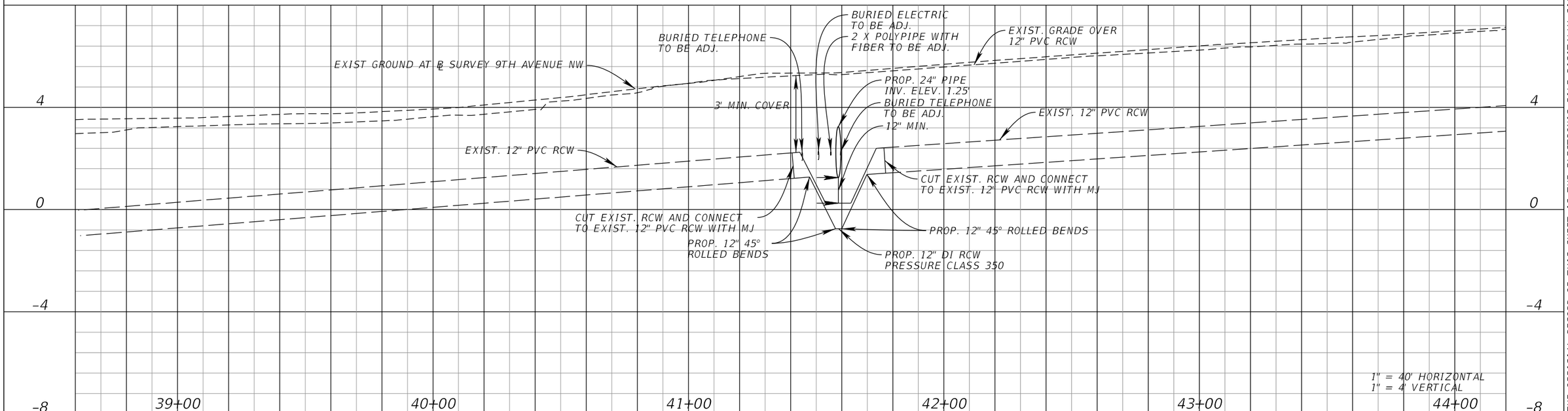

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PHONE: 941-379-7600
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KHA PROJECT 148400070
DATE 10/02/2025
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Manatee County FLORIDA

9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

CONFLICT RELOCATION (4)
[[STA. 38+60 - STA. 44+20]]

SHEET NUMBER
135

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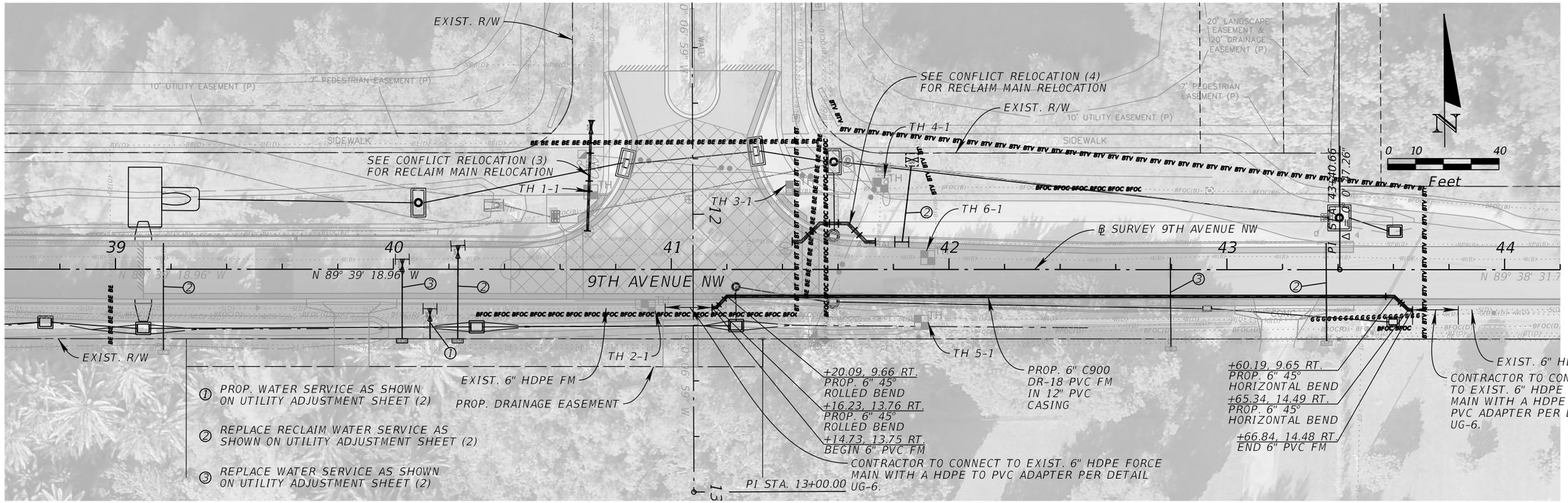

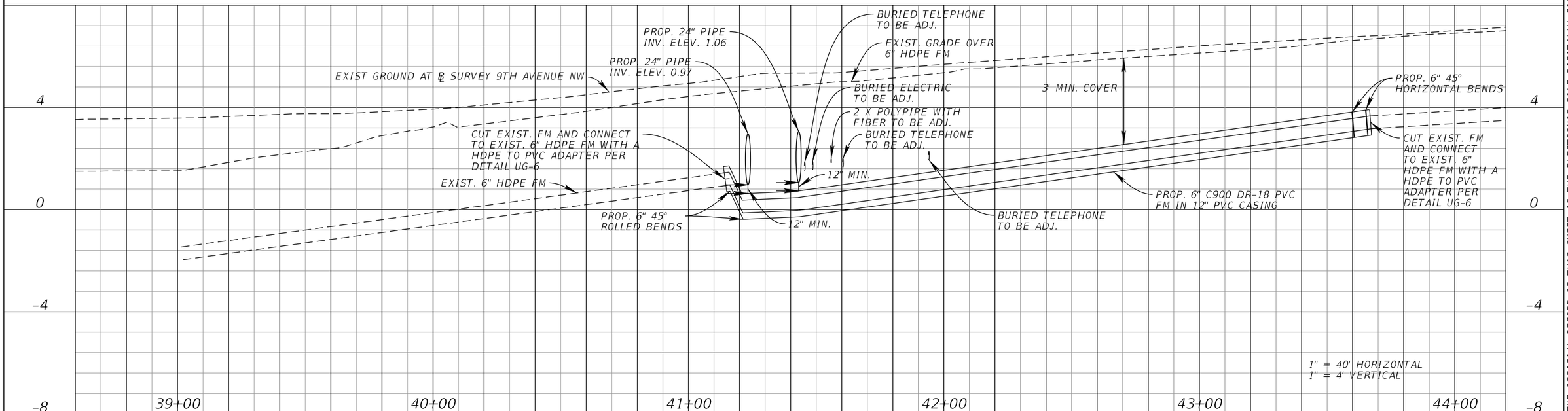

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CONFLICT RELOCATION (5)
[[STA. 38+60 - STA. 44+20]]

SHEET NUMBER
136

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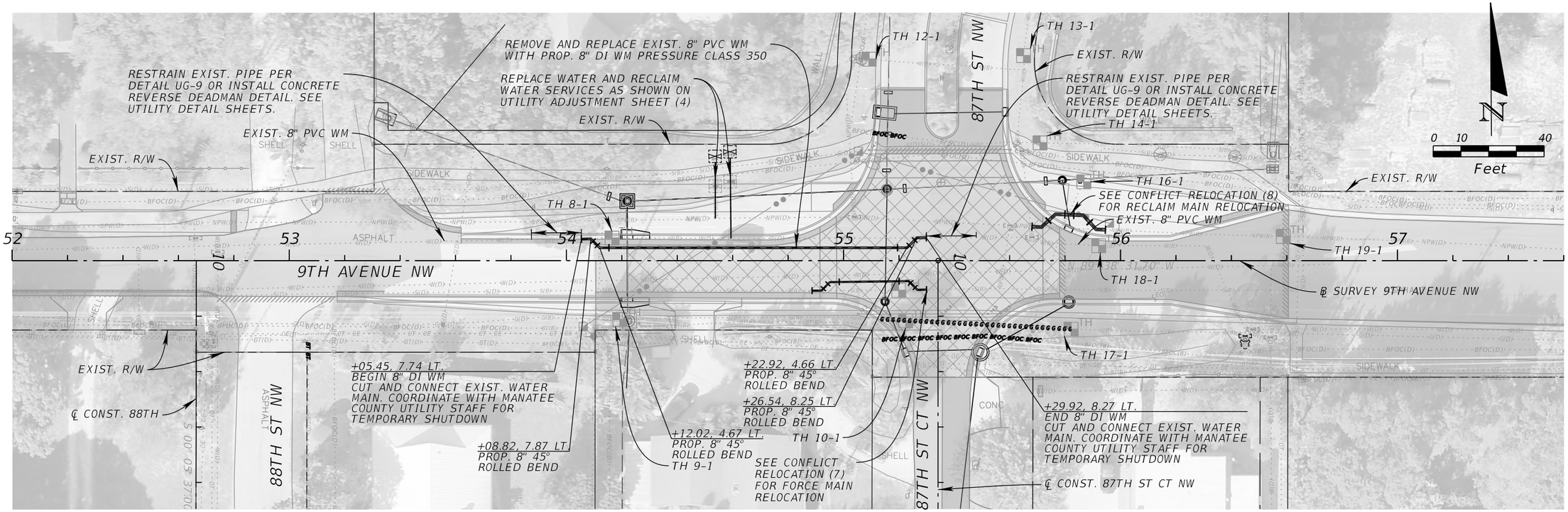

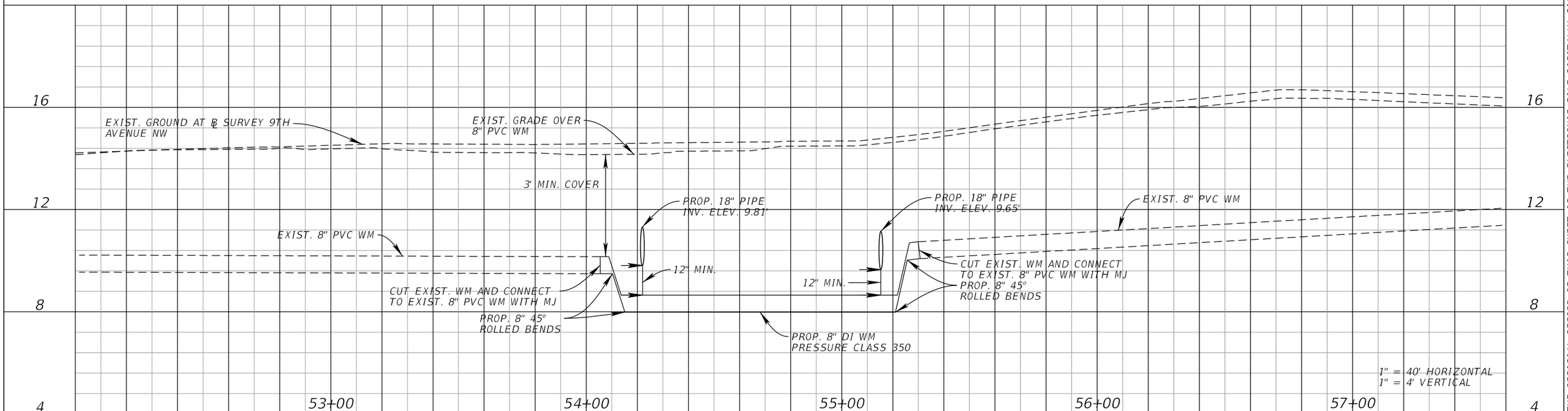

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DATE:

CONFLICT RELOCATION (6)
[[STA. 52+00 - STA. 57+60]]

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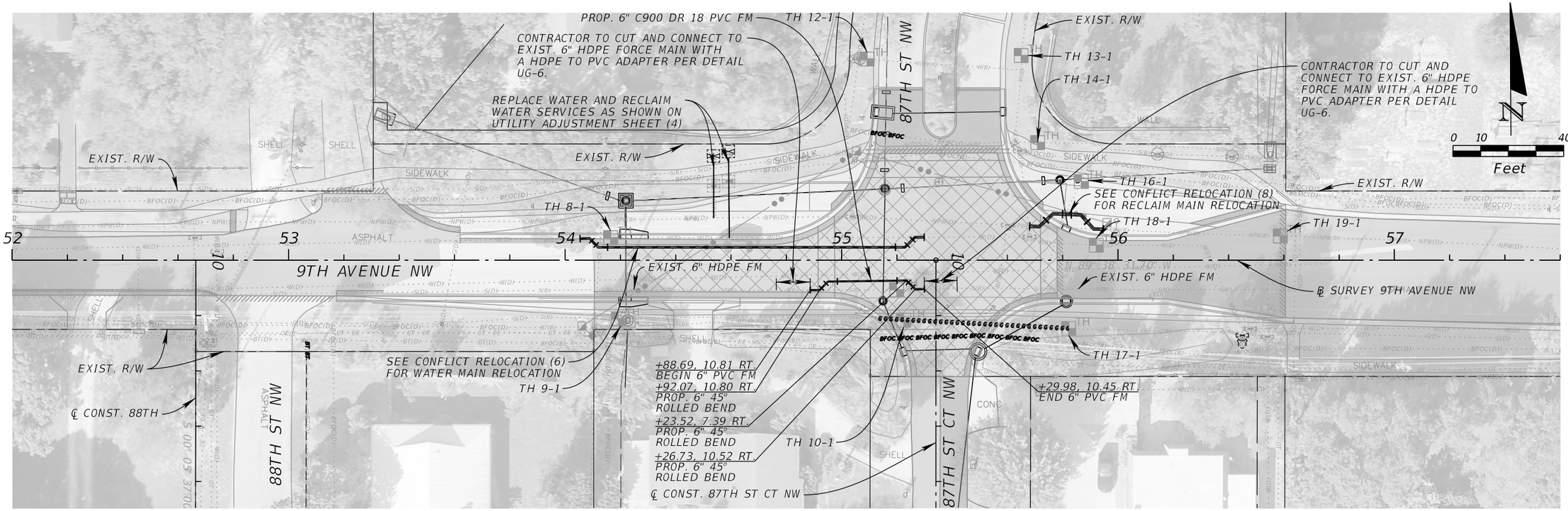

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MANATEE COUNTY FL

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FL LICENSE NUMBER 76102
DATE:

CONFLICT RELOCATION (7)
[[STA. 52+00 - STA. 57+60]]

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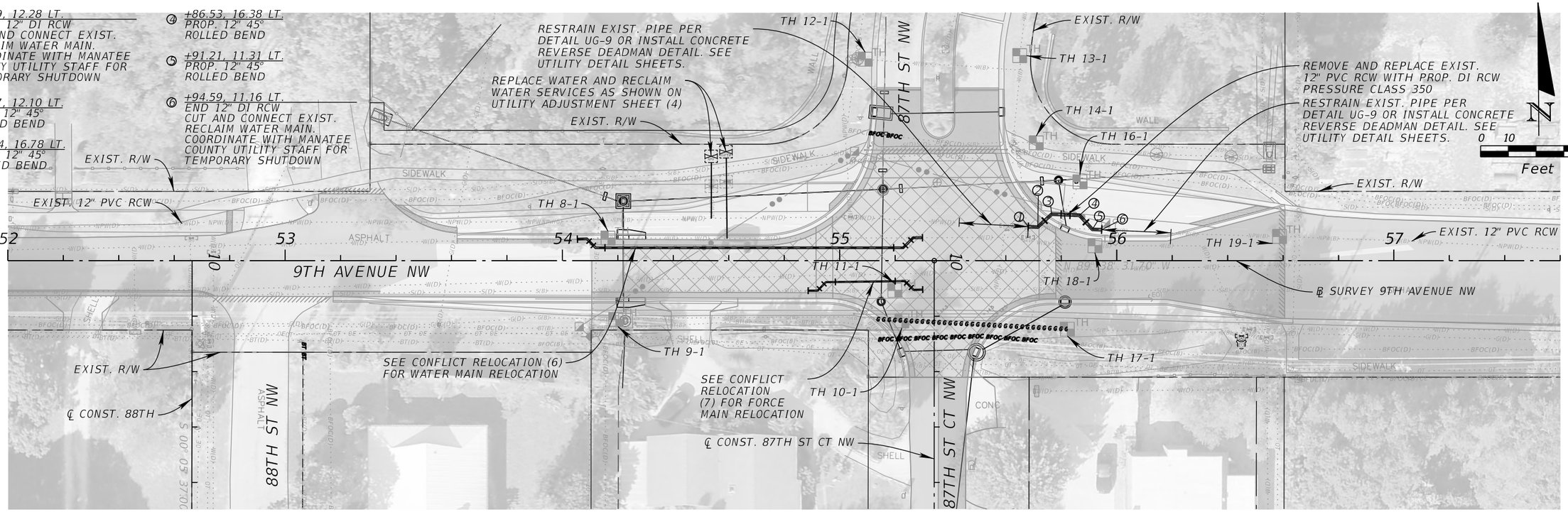

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CONFLICT RELOCATION (8)
[[STA. 52+00 - STA. 57+60]]

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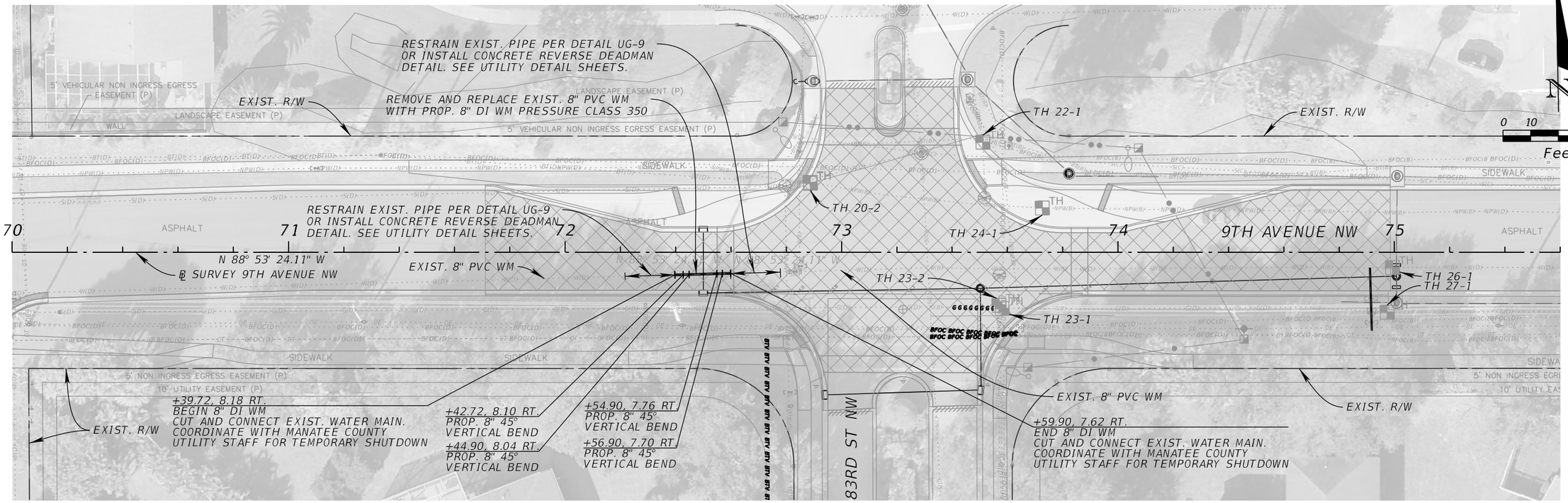

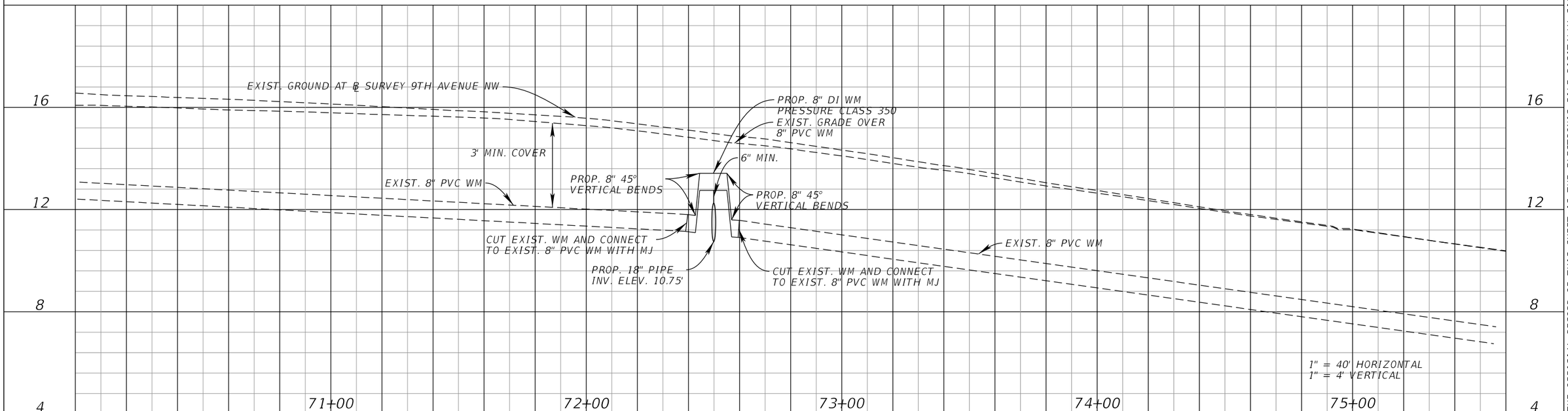

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MANATEE COUNTY FL

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CONFLICT RELOCATION (9)
[[STA. 70+00 - STA. 75+60]]

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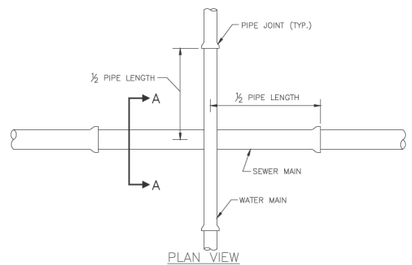
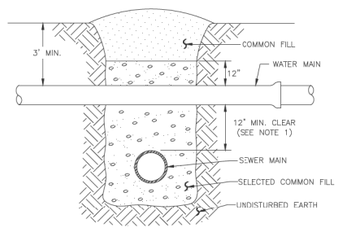


PLAN VIEW



SECTION A–A

NOTES:

1. CLEARANCE MAY BE REDUCED TO 6" FOR GRAVITY SEWER WHERE WATER MAIN IS DUCTILE IRON.
2. PIPE SECTIONS SHALL BE FULL–LENGTH AND SHALL BE ADJUSTED HORIZONTALLY, SO THAT THE CROSSING IS AT EACH PIPE SECTION'S MIDPOINT REGARDLESS OF THE VERTICAL CLEARANCE.

MANATEE COUNTY
PUBLIC WORKS DEPARTMENT

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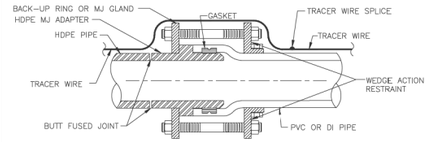
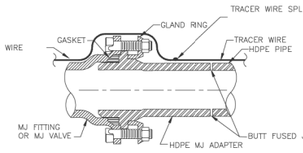
TYPICAL NEW WATER & SEWER LINE CROSSING

UG–2

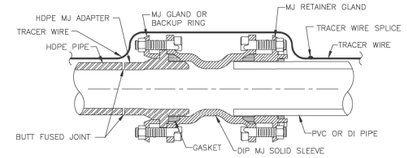


HDPE PIPE TO PVC PIPE / SPIGOT TO BELL CONNECTION



NOTE: SCHEMATIC SHOWN FOR STANDARD MJ FITTINGS AND GATE VALVES.

HDPE PIPE TO MJ FITTING TRANSITION



HDPE PIPE TO PVC PIPE SPIGOT TO SPIGOT CONNECTION

NOTES:

1. ONE TRACER WIRE SHALL BE SECURED TO THE PIPE FOR ALL TYPES OF PIPELINE INSTALLATIONS.
2. CONTRACTOR SHALL NOT USE MECHANICAL MEANS TO ALIGN PIPE AND FITTINGS FOR ATTACHMENT. THE PIPE SHALL NOT BE "SPRING" LOADED.

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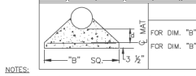
HDPE TO PVC OR DI PIPE ADAPTER

UG–6

THRUST BLOCK DIMENSIONS B ft. x d inches

PIPE SIZE (IN.)	90°BEND B	90°BEND d	45°BEND B	45°BEND d	22.5°BEND B	22.5°BEND d	11.25°BEND B	11.25°BEND d	DEAD END & TEE B	DEAD END & TEE d	45° WYE B	45° WYE d
4	1.5	3 ½	1.1	3 ½	0.8	3 ½	0.6	3 ½	1.3	3 ½	1.1	3 ½
6	2.2	5 ¼	1.6	3 ¾	1.2	3 ½	0.8	3 ½	1.9	4 ½	1.6	3 ¾
8	2.9	7	2.1	5	1.5	3 ½	1.1	3 ½	2.4	5 ¾	2.0	4 ¾
10	3.5	8 ½	2.6	6 ¼	1.9	4 ½	1.3	3 ½	3.0	7 ¼	2.5	6
12	4.2	10	3.1	7 ½	2.2	5 ¼	1.6	3 ¾	3.5	8 ¼	3.0	7 ¼
14	4.9	11 ¾	3.6	8 ¾	2.6	6 ¼	1.8	4 ¼	4.1	9 ¾	3.4	8 ¼
16	5.5	13 ¼	4.1	9 ¾	2.9	7	2.1	5	4.7	11 ¼	3.9	9 ¼
18	6.2	15	4.6	11	3.3	8	2.3	5 ½	5.2	12 ½	4.4	10 ½
20	6.9	16 ½	5.0	12	3.6	8 ¾	2.6	6 ¼	5.8	14	4.9	11 ¾
24	8.2	19 ¾	6.0	14 ½	4.3	10 ¼	3.1	7 ½	6.9	16 ½	5.8	14
30	10.1	24 ¼	7.5	18	5.3	12 ¾	3.8	9	8.5	20 ½	7.2	17 ¼
36	12.1	29	8.9	21 ¼	6.4	15 ¼	4.5	10 ¾	10.2	24 ½	8.6	20 ¾

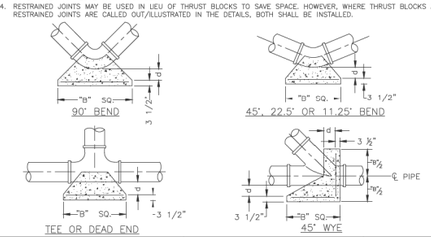


REINFORCEMENT MAT SCHEDULE

FOR DIM. "B" BETWEEN 5.75' & 12.5' USE #4 @ 8" EACH WAY
FOR DIM. "B" LESS THAN 5.75' USE #3 @ 8" EACH WAY

NOTES:

1. ALL THRUST BLOCKS SHALL BE CAST IN PLACE. FITTINGS ADJACENT TO THRUST BLOCKS SHALL BE WRAPPED IN POLYETHYLENE.
2. THIS TABLE IS BASED ON WATER PRESSURE=180 PSI WITH AN ALLOWABLE SOIL BEARING PRESSURE=2000 PSF, CONCRETE STRENGTH f_c =3000 PSI, REINFORCEMENT f_y =60.0 KSI. THRUST BLOCK SHALL BE CAST AGAINST FIRM UNDISTURBED SOIL.
3. FOR LARGER "B" DIMENSIONS IT IS NECESSARY TO CHECK THAT PIPE IS SUFFICIENTLY DEEP TO ALLOW 15" MIN. SOIL COVER OVER TOP EDGE OF THRUST BLOCK.
4. RESTRAINED JOINTS MAY BE USED IN LIEU OF THRUST BLOCKS TO SAVE SPACE. HOWEVER, WHERE THRUST BLOCKS AND RESTRAINED JOINTS ARE CALLED OUT/ILLUSTRATED IN THE DETAILS, BOTH SHALL BE INSTALLED.



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CONCRETE THRUST BLOCKS

UG–7

REQUIRED LENGTH OF RESTRAINED JOINT PIPE FOR C900-16 PVC PIPE (DR-18)

MAIN PIPE SIZE	HORIZ. BENDS 90°	HORIZ. BENDS 45°	HORIZ. BENDS 22.5°	TEES SIZE / LENGTH						REDUCERS SIZE / LENGTH						PLUGS & VALVES
24	90	38	18	X24/169	X20/132	X16/90	X12/38	X10/6		X20/64	X16/117	X12/158				214
20	78	32	16	X20/141	X16/101	X12/53	X10/24	X8/1		X16/65	X12/115	X10/149				184
16	66	27	13	X16/111	X12/67	X10/41	X8/12			X12/64	X10/107	X8/111				151
12	52	22	10	X12/80	X10/56	X8/31	X6/1			X10/58	X8/62	X6/86				118
10	44	18	9	X10/63	X8/40	X6/7				X8/33	X6/61	X4/81				100
8	37	15	7	X8/49	X6/18	X4/1				X6/35	X4/60					83
6	29	12	6	X6/29	X4/1					X4/33						63
4	21	8	4	X4/12												45

NOTES:

1. RESTRAIN 11.25° BENDS 50% OF LENGTH FOR 22.5° BENDS.
2. ALL VALVES AND FITTINGS SHALL BE RESTRAINED TO THE CONNECTING SECTIONS OF PIPE.
3. ALL ISOLATION VALVES MUST BE PROPERLY ANCHORED OR RESTRAINED TO RESIST A 180 PSI TEST PRESSURE IN EITHER DIRECTION.
4. PIPE SIZES ARE GIVEN IN INCHES.
5. RESTRAINED PIPE LENGTHS ARE GIVEN IN FEET.
6. LENGTHS SHOWN ARE FOR A TEST PRESSURE OF 180 PSI.
7. THE RESTRAINED LENGTHS SHOWN IN THESE TABLES ARE BASED ON SOIL CLASSIFICATION SP WITH AWWA TYPE 3 TRENCH CONDITIONS, 180 PSI TEST PRESSURE, 3 FEET OF COVER AND 1.5 FACTOR OF SAFETY. ACTUAL BURY CONDITIONS MUST BE DETERMINED BY THE ENGINEER OF RECORD AND THE RESTRAINED LENGTHS MODIFIED ACCORDINGLY.
8. RESTRAINED LENGTHS TO BE APPLIED TO PIPELINES PER DETAIL UG–10 RESTRAINED LENGTHS FOR PIPE.
9. ALL RESTRAINED JOINT HARDWARE SHALL CONFORM TO 1.11.17 OF THE PUBLIC WORKS UTILITIES STANDARDS MANUAL.
10. ALL THREE "LEGS" OF TEES SHALL BE RESTRAINED PER THE STATED LENGTH IN THE TABLE.

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RESTRAINED LENGTHS FOR PVC PIPE

UG–8

REQUIRED LENGTH OF RESTRAINED JOINT PIPE FOR DIP (POLY-WRAPPED)

MAIN PIPE SIZE	HORIZ. BENDS 90°	HORIZ. BENDS 45°	HORIZ. BENDS 22.5°	TEES SIZE / LENGTH						REDUCERS SIZE / LENGTH						PLUGS & VALVES
36	142	59	28	X36/393	X30/318	X24/232	X20/185	X16/84	X12/1	X30/137	X24/247	X20/309	X16/359			453
30	124	51	25	X30/333	X24/252	X20/189	X16/115	X12/23	X10/1	X24/137	X20/213	X16/276				391
24	106	44	21	X24/270	X20/211	X16/143	X12/61	X10/10	X8/1	X20/98	X16/178	X12/241				327
20	92	38	18	X20/225	X16/161	X12/85	X10/39	X8/1		X16/98	X12/176	X10/227				280
16	77	32	15	X16/177	X12/107	X10/65	X8/19	X6/1		X12/98	X10/163	X8/169				231
12	61	25	12	X12/127	X10/89	X8/50	X6/1			X10/88	X8/96	X6/131				181
10	52	22	10	X10/101	X8/64	X6/11				X8/51	X6/94	X4/125				153
8	44	18	9	X8/78	X6/30	X4/1				X6/54	X4/92					128
6	34	14	7	X6/46	X4/1					X4/50						98
4	24	10	5	X4/19												69

NOTE:

1. SEE UG–8, RESTRAINED LENGTHS FOR PVC PIPE DETAIL FOR NOTES 1 THROUGH 10 THAT ARE ALSO APPLICABLE TO RESTRAINED LENGTHS FOR DIP.

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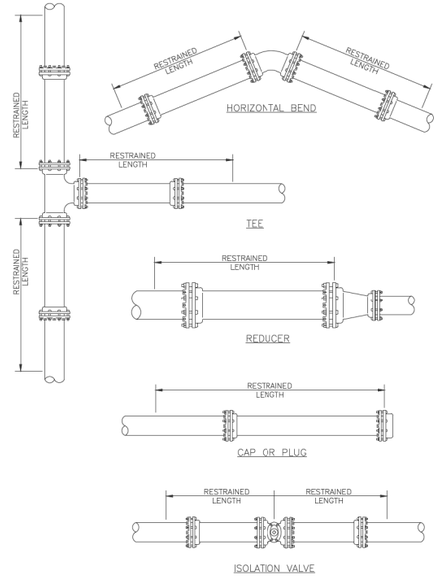
RESTRAINED LENGTHS FOR DIP

UG–9



NOTE:

1. SEE DETAIL UG–8 RESTRAINED LENGTHS FOR PVC PIPE FOR NOTES 1 THROUGH 10 THAT ARE ALSO APPLICABLE TO RESTRAINED LENGTHS FOR PIPE.

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RESTRAINED LENGTHS FOR PIPE

UG–10

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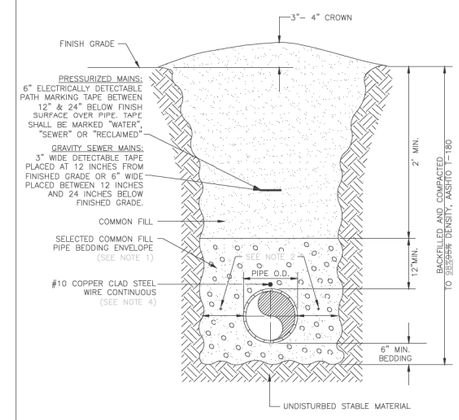
NOTES:

1. USE OF TYPE A–2 AND A–3 PIPE BEDDING TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
2. PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST BE COMPACTED OUT TO THE TRENCH WALL OR 2.5 TIMES THE PIPE OD, WHICHEVER IS LESS.
3. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
4. TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.



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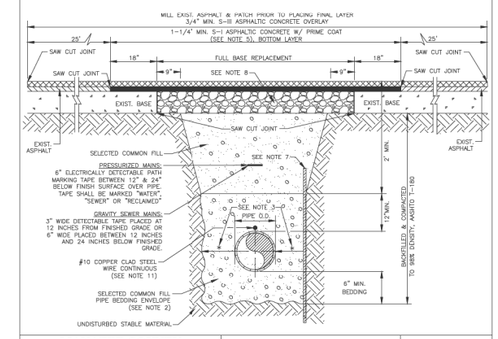
TRENCH WITH UNIMPROVED SURFACE TYPE A–1 PIPE BEDDING

UG–11

NOTES:

1. BITUMINOUS PAVEMENT SHALL BE REMOVED IN CLEAN STRAIGHT LINES BY SAW CUTTING. WHERE BITUMINOUS PAVEMENT ADJOINS A TRENCH, THE EDGES ADJACENT TO THE TRENCH SHALL BE TRIMMED TO A NEAT STRAIGHT LINES BEFORE RESURFACING TO ENSURE THAT ALL AREAS TO BE RESURFACED ARE ACCESSIBLE TO ROLLERS OR TAMPERS USED TO COMPACT THE SUB–GRADE OR PAVING MATERIALS.
2. USE OF TYPE A–2 AND A–3 PIPE BEDDING TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
3. PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST BE COMPACTED OUT TO THE TRENCH WALL OR 2.5 TIMES THE PIPE OD, WHICHEVER IS LESS.
4. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
5. ASPHALTIC CONCRETE STRUCTURE COURSE WITH PRIME COAT SHALL BE THE SAME DEPTH AND TYPE AS EXISTING OR A MINIMUM OF 1–1/4 INCH S–I, WHICHEVER IS GREATER.
6. MILL 25' BACK FROM TRENCH CROSSING SAW CUTS. ADJUST MILLING PER INDIVIDUAL SITE TO NOT IMPACT BASE. BUTT JOINT TO EXIST ASPHALT. FINAL OVERLAY TO MATCH EXISTING WITH NO DISCERNABLE "BUMP" AT JOINT. MILLING LIMITS THAT IMPACT INTERSECTION SHALL BE ADDRESSED ON A CASE BY CASE BASIS AND APPROVED BY MANATEE COUNTY.
7. SHEETING ORDERED LEFT IN PLACE TO BE CUT OFF 24" BELOW FINISHED GRADE OR 12" BELOW SUBGRADE.
8. NEW BASE SHALL MATCH EXISTING; OR BE CRUSHED CONCRETE, 8" MIN. THICKNESS, LBR ≥150, WHICHEVER IS GREATER.
9. TEMPORARY PATCHES WILL BE INSTALLED TO PROVIDE A SMOOTH ALL WEATHER SURFACE AT ALL TIMES. PERMANENT REPLACEMENT TO BE MADE AS SOON AS POSSIBLE.
10. RESTORE SIGNAGE & MARKING WITH THERMOPLASTIC PER FDOT STANDARDS, LATEST EDITION.
11. TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.
12. NOTES 5. THRU 10. ARE MINIMUM REQUIREMENTS FOR A TRENCH IN A LOCAL ROAD. REFER TO LATEST EDITION OF MANATEE COUNTY HIGHWAY AND TRAFFIC STANDARDS FOR ADDITIONAL REQUIREMENTS.



MANATEE COUNTY
PUBLIC WORKS DEPARTMENT

REV.BY	DATE	
		SEPT 12, 2023
		DATE OF APPROVAL

TRENCH WITH ASPHALT PAVEMENT SURFACE TYPE A–1 PIPE BEDDING (CROSSING)

UG–12

No.	REVISIONS	DATE	BY

Kimley»Horn

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KHA PROJECT 148400070
DATE 10/02/2025
SCALE AS SHOWN
DESIGNED BY
DRAWN BY
CHECKED BY

9TH AVENUE NW

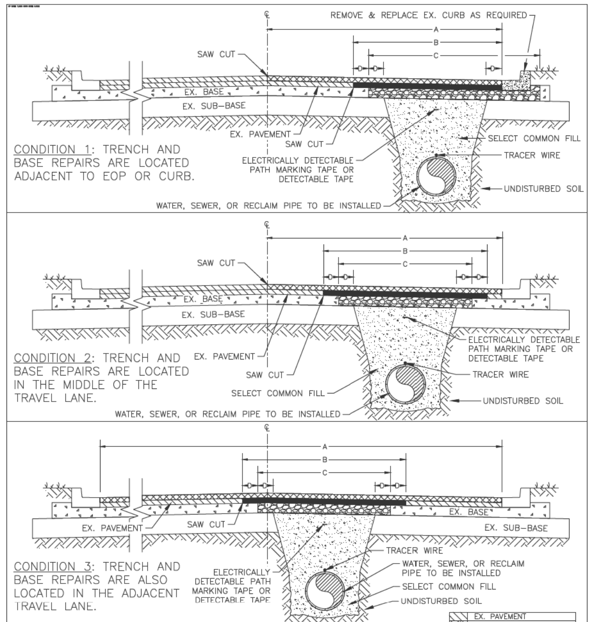
MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

UTILITY DETAIL SHEET (1)

SHEET NUMBER 141

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



A = MILL EXIST. ASPHALT & PLACE 3/4" MIN. S-III ASPHALTIC CONCRETE OVERLAY.
B = 1-1/4" MIN. S-I ASPHALTIC CONCRETE W/ PRIME COAT.
C = FULL BASE REPLACEMENT.
D = 9 INCHES

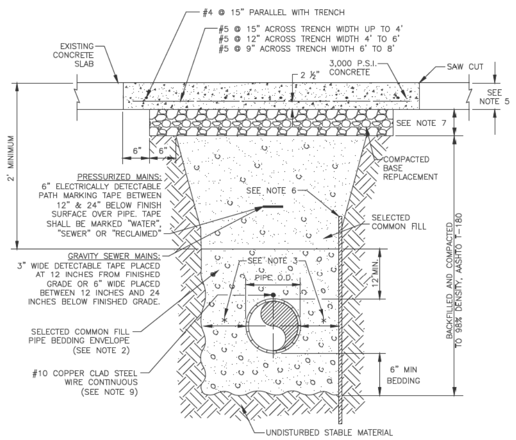
NOTE:

1. THIS DETAIL IS BASED ON A TWO-LANE ROADWAY AND SHALL BE FOLLOWED WHEN A PIPE IS INSTALLED WITHIN THE LIMITS OF A ROADWAY AND RUNS PARALLEL WITH THE EDGE OF PAVEMENT. THIS DETAIL CAN ALSO BE UTILIZED FOR RESTORATION NEEDS OF ROADWAYS WITH ADDITIONAL LANES. CONDITION 3 ONLY EXTENDS TO NEXT ADJACENT LANE ON MULTI-LANE ROADS.
2. THE MILL AND OVERLAY SHALL BE FIELD ADJUSTED TO MEET THE NEEDS FOR PAVEMENT RESTORATION DUE TO CONSTRUCTION ACTIVITIES AND SHALL BE COORDINATED WITH THE COUNTY.
3. SEE TRENCH WITH ASPHALT PAVEMENT TYPE A-1 PIPE BEDDING (CROSSING) DETAIL FOR NOTES 1 TO 12 THAT ARE ALSO APPLICABLE TO ASPHALT PAVEMENT RESTORATION.

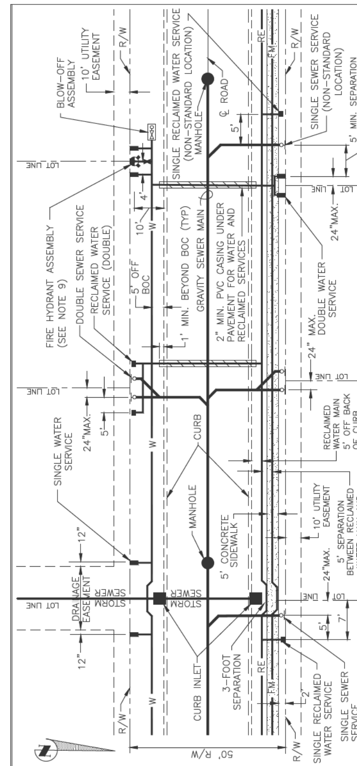
MANATEE COUNTY PUBLIC WORKS DEPARTMENT	TRENCH WITH ASPHALT PAVEMENT SURFACE TYPE A-1 PIPE BEDDING (LONGITUDINAL)	UG-13
REV.BY / DATE — SEPT 12, 2023 DATE OF APPROVAL		

NOTES:

1. CONCRETE PAVEMENT SHALL BE REMOVED WITH SAWED EDGES AND CUT AT A MINIMUM DEPTH OF ONE AND ONE-HALF (1-1/2"). IF A SAW CUT IN CONCRETE PAVEMENT FALLS WITHIN THREE FEET (3') OF A CONTRACTION JOINT, COLD JOINT, EXPANSION JOINT OR EDGE, THE CONCRETE SHALL BE REMOVED TO THE JOINT OR EDGE. THE EDGES OF EXISTING CONCRETE PAVEMENT ADJACENT TO TRENCHES, WHICH HAD BEEN DAMAGED SUBSEQUENT TO SAW CUTTING OF PAVEMENT, SHALL BE SAW CUT TO NEAT STRAIGHT LINES FOR THE PURPOSE OF REMOVING THE DAMAGED PAVEMENT AREAS.
2. USE OF TYPE A-2 AND A-3 PIPE BEDDING TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
3. PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST BE COMPACTED OUT TO THE TRENCH WALL OR 2.5 TIMES THE PIPE OD, WHICHEVER IS LESS.
4. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
5. THICKNESS TO MATCH EXISTING OR BE 8" MINIMUM, WHICHEVER IS GREATER.
6. SHEETING ORDERED LEFT IN PLACE TO BE CUT OFF 24" BELOW FINISHED GRADE OR 12" BELOW SUBGRADE.
7. BASE SHALL BE CRUSHED CONCRETE, 8" MIN. THICKNESS, LBR ≥150.
8. TEMPORARY PATCHES WILL BE INSTALLED TO PROVIDE A SMOOTH ALL WEATHER SURFACE AT ALL TIMES. PERMANENT REPLACEMENT TO BE MADE AS SOON AS POSSIBLE.
9. TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.
10. NOTES 5 THRU 8 ARE MINIMUM REQUIREMENTS. REFER TO MANATEE COUNTY HIGHWAY AND TRAFFIC STANDARDS FOR ADDITIONAL REQUIREMENTS.



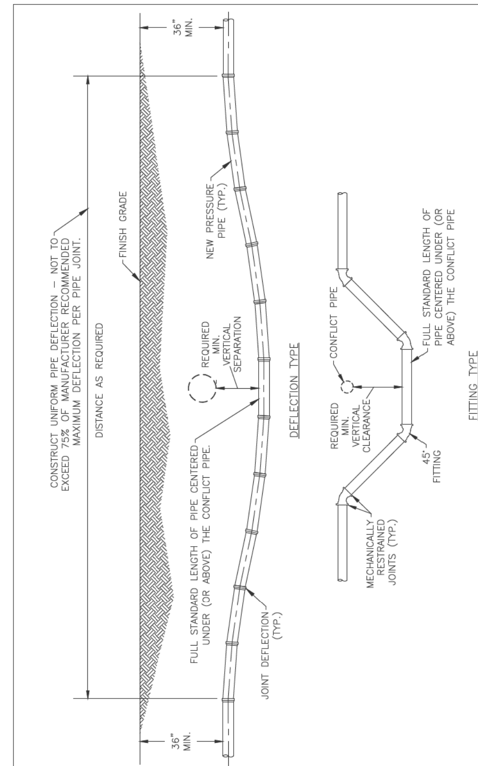
MANATEE COUNTY PUBLIC WORKS DEPARTMENT	TRENCH WITH CONCRETE PAVEMENT SURFACE TYPE A-1 PIPE BEDDING	UG-14
REV.BY / DATE — SEPT 12, 2023 DATE OF APPROVAL		



NOTES:

1. 5' WIDE SIDEWALK TO BE LOCATED 2' OFF RIGHT-OF-WAY LINE (4' SEPARATION FROM SIDEWALK TO BACK OF CURB). SEE PLAN FOR SIDEWALK LOCATION.
2. WATER SERVICES TO BE 24" MAX. OFF LOT LINE, 12" MAX. AT DRAINAGE EASEMENTS. SANITARY CLEAN-OUTS TO BE 12" OFF RIGHT-OF-WAY LINE AND 24" MAX. OFF LOT LINE, 12" MAX. AT DRAINAGE EASEMENTS. RECLAIMED WATER SERVICES TO BE 7' MAX. OFF LOT LINE (5' AWAY FROM SANITARY SERVICES), 6' MAX. AT DRAINAGE EASEMENTS.
3. ALL PRESSURE MAINS SHALL BE MIN. 3 FEET FROM STRUCTURES.
4. POTABLE WATER MAIN TO BE 5' OFF BACK OF CURB, ON OPPOSITE SIDE OF ROAD FROM SIDEWALK.
5. SEWER MAIN TO BE ALONG CENTERLINE OF ROADWAY, EXCEPT IN CURVES, AND SHALL IN NO CASE BE CLOSER THAN 10' AWAY FROM POTABLE WATER MAINS AND 5' AWAY FROM RECLAIMED WATER MAINS. MANHOLE COVERS SHALL BE IN CENTERLINE OF ROADWAY, OR CENTER OF TRAVELED LANE.
6. RECLAIMED WATER MAIN TO BE 5' OFF BACK OF CURB (OPPOSITE SIDE OF ROAD FROM POTABLE WATER MAIN), EXCEPT WHEN INSTALLED ON SAME SIDE OF ROAD AND PARALLEL TO FORCE MAIN, IN WHICH CASE RECLAIMED WATER MAIN TO BE 3' OFF BACK OF CURB. 10' UTILITY EASEMENT SHALL BE IN THE FRONT OF THE LOTS IN LIEU OF THE BACK OF THE LOTS.
7. FORCE MAIN TO BE 5' OFF BACK OF CURB (OPPOSITE SIDE OF ROAD FROM POTABLE WATER MAIN), EXCEPT WHEN INSTALLED ON SAME SIDE OF ROAD AND PARALLEL TO RECLAIMED WATER MAIN, IN WHICH CASE FORCE MAIN TO BE 8' OFF BACK OF CURB.
8. POTABLE WATER, RECLAIMED WATER AND FORCE MAINS TO DEFLECT BEHIND AND DO NOT TOUCH CURB INLETS. MAXIMUM OBTAINABLE SEPARATION OF POTABLE WATER, RECLAIMED WATER AND FORCE MAINS TO CURB INLETS SHALL BE PROVIDED WHILE MAINTAINING ALL OTHER SETBACK REQUIREMENTS.
9. FIRE HYDRANTS TO BE 10' OFF BACK OF CURB, ON SAME SIDE OF ROAD AS WATER MAIN, AT LOT LINES (TYPICALLY AT PROPERTY CORNERS WHERE WATER SERVICES ARE LOCATED).
10. PVC OR HDPE CASINGS FOR WATER AND RECLAIMED WATER SERVICE ROADWAY CROSSINGS TO HAVE 36" MINIMUM COVER.
11. ALL OTHER R.O.W. WIDTHS SHALL CONFORM TO THE ABOVE MINIMUM SETBACKS FOR FORCEMAINS, POTABLE & RECLAIMED WATERMAINS. NO SEWER LATERAL CLEANOUTS SHALL BE LOCATED IN THE SIDEWALK OR DRIVEWAYS.

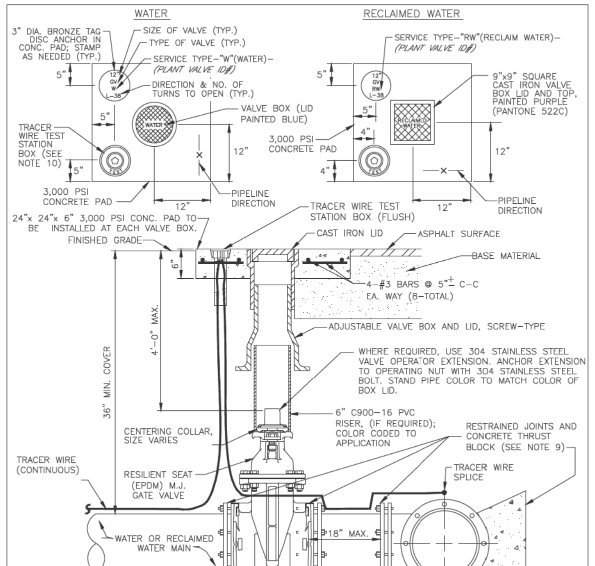
MANATEE COUNTY PUBLIC WORKS DEPARTMENT	UTILITY LAYOUT FOR 50' R/W	UG-18
REV.BY / DATE — SEPT 12, 2023 DATE OF APPROVAL		



NOTES:

1. AT ALL TIMES, PIPE SHALL CROSS ABOVE CONFLICT WHEN POSSIBLE.
2. THESE METHODS ARE TO BE USED WHEN INSUFFICIENT COVER EXISTS TO ALLOW PRESSURE PIPE TO CROSS ABOVE CONFLICT PIPE WITH 6" VERTICAL SEPARATION AND MAINTAIN REQUIRED COVER TO FINISHED GRADE.
3. THE DEFLECTION TYPE CROSSING IS PREFERRED.
4. DO NOT EXCEED 75% OF MANUFACTURER'S RECOMMENDED MAXIMUM JOINT DEFLECTION.
5. FITTINGS SHALL BE RESTRAINED AS SPECIFIED IN DETAIL UG-8 "RESTRAINED LENGTH FOR PVC PIPE" OR UG-9 "RESTRAINED LENGTH FOR DIP".

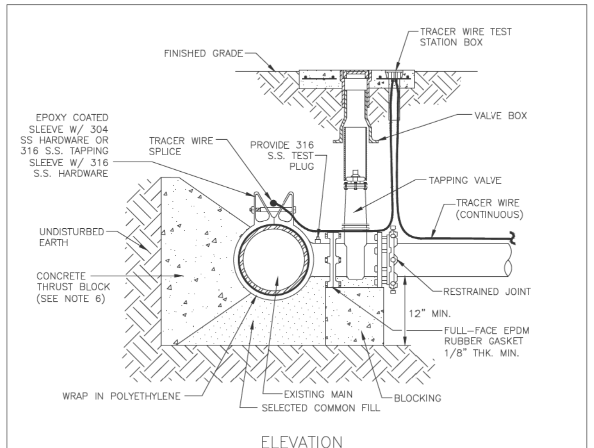
MANATEE COUNTY PUBLIC WORKS DEPARTMENT	PRESSURE PIPE DEFLECTION AT UTILITY CROSSING	UG-19
REV.BY / DATE — SEPT 12, 2023 DATE OF APPROVAL		



NOTES:

1. "W" OR "R" SHALL BE IMPRESSED INTO THE NEWLY-POURED CONCRETE CURB (OR ROUTED INTO EXISTING CONCRETE CURB USING AN APPROVED TEMPLATE) AND INSTALL AN ALUMINUM BLUE DISC WITH "W" OR ALUMINUM PURPLE DISC WITH "R" AND THE FOOTAGE FROM THE DISC TO THE VALVE USING A 1/8" x 1" GALVANIZED STEEL SCREW IN THE EDGE OF PAVEMENT. LETTERS SHALL COMPLY WITH TEMPLATE DETAIL UG-21.
2. ALL EXISTING AND PROPOSED VALVE BOXES SHALL BE ADJUSTED TO FINISHED GRADES AS DETERMINED IN THE FIELD.
3. VALVES SHALL NOT BE PLACED IN HANDICAPPED RAMPS, CURBS, OR GUTTERS.
4. PRECAST CONCRETE PADS SHALL NOT BE USED.
5. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1/2".
6. PIPELINE DIRECTION TO BE IMPRESSED INTO NEWLY POURED CONCRETE PAD.
7. TRACER WIRE TEST STATION BOX IS NOT REQUIRED IN VALVE BOX PAD IF THE GATE VALVE IS LOCATED WITHIN 200 FEET OF A WATER SERVICE, BLOW-OFF, BACKFLOW PREVENTER OR FIRE HYDRANT THAT HAS A TRACER WIRE BOX.
8. SHOULD THE TRACER WIRE STATION BOX CONCRETE PAD OVERLAP A SIDEWALK, THE TRACER WIRE TEST STATION BOX SHALL NOT BE LOCATED WITHIN THE SIDEWALK.
9. WHERE THRUST BLOCK NOT USED, RESTRAINED JOINTS MUST THEN EXTEND FROM TEE FULL LENGTH SPECIFIED FOR "TEES."
10. USE NON-TRAFFIC RATED BOXES. WHERE VALVE WILL BE IN STREET OR PARKING UNDER VEHICLE TRAFFIC, USE TRAFFIC RATED BOXES. WHERE POSSIBLE, LOCATE TRACE WIRE TESTING STATION OUTSIDE OF TRAVEL LANE OR IN MEDIAN, CENTERED IN SEPARATE CONCRETE PAD SIMILAR TO STANDARD VALVE BOX PAD.
11. THE BRASS TAG SHALL HAVE A "PLANT VALVE ID# WHEN VALVES ARE INSTALLED WITHIN THE COUNTY TREATMENT PLANT LIMITS. THE PLANT VALVE ID# SHALL BE SHOWN ON THE CONSTRUCTION PLANS AND RECORD DRAWINGS.
12. REFER TO SECTION 1.11 GATE VALVES IN THE PUBLIC WORKS UTILITY STANDARDS MANUAL FOR FURTHER DETAILS.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT	GATE VALVE, BOX, LID AND TAG	UW-2
REV.BY / DATE — SEPT 12, 2023 DATE OF APPROVAL		

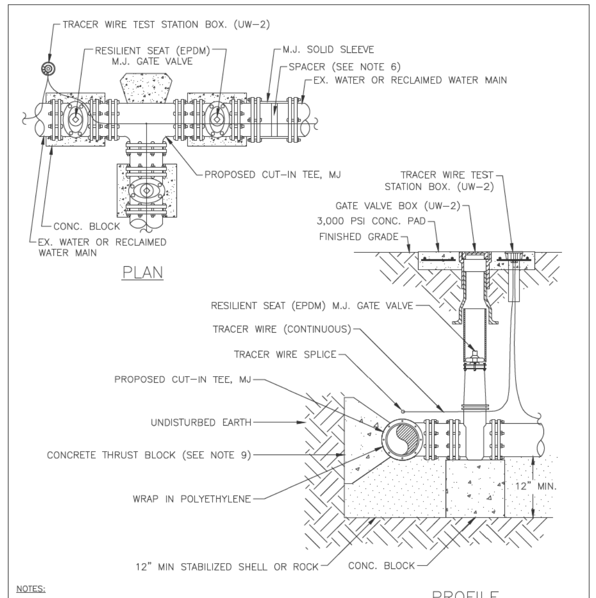


ELEVATION

NOTES:

1. PRIOR TO TAPPING, CONTRACTOR TO DEMONSTRATE 60 MINUTE HYDROSTATIC TEST OF THE TAPPING SLEEVE AND VALVE WITH NO LOSS OF 180 PSI PRESSURE FOR WATER AND RECLAIMED WATER.
2. ALL FITTINGS TO BE WRAPPED WITH 20 MIL POLYETHYLENE WRAP AT THRUST BLOCK.
3. ALL TAPS ON CONCRETE WATER MAINS AND LARGER THAN 12" ARE TO BE MADE BY A MANATEE COUNTY APPROVED TAPPING COMPANY. ALL MATERIALS TO BE SUPPLIED BY THE CONTRACTOR.
4. ALL TAPS MUST BE OF A SMALLER SIZE THAN THE MAIN BEING TAPPED & PLACED NO CLOSER THAN 30" OR A DISTANCE EQUAL TO (1) MAIN PIPE DIAMETER PLUS (2) TAP PIPE DIAMETERS (WHICHEVER IS GREATER) FROM A JOINT OR FITTING.
5. CONTRACTOR TO SUPPLY A DRY HOLE FOR TAPPING CREW TO WORK IN AND A BACK-HOE TO LOWER TAPPING MACHINE INTO THE HOLE.
6. WHERE THRUST BLOCK NOT USED, RESTRAINED JOINTS MUST THEN EXTEND FROM TEE FULL LENGTH SPECIFIED FOR "TEES."
7. TRACER WIRE TEST STATION BOX IS REQUIRED AT CONNECTIONS TO EXISTING MAINS.
8. SHOULD THE TRACER WIRE STATION BOX CONCRETE PAD OVERLAP A SIDEWALK, THE TRACER WIRE TEST STATION BOX SHALL NOT BE LOCATED WITHIN THE SIDEWALK.
9. SEE SECTION 1.11 TAPPING SLEEVES AND VALVES IN THE PUBLIC WORKS UTILITY STANDARDS MANUAL FOR FURTHER DETAILS.
10. "W" OR "R" SHALL BE IMPRESSED INTO THE NEWLY-POURED CONCRETE CURB (OR ROUTED INTO EXISTING CONCRETE CURB USING AN APPROVED TEMPLATE) AND INSTALL AN ALUMINUM BLUE DISC WITH "W" OR ALUMINUM PURPLE DISC WITH "R" AND THE FOOTAGE FROM THE DISC TO THE VALVE USING A 1/8" x 1" GALVANIZED STEEL SCREW IN THE EDGE OF PAVEMENT. LETTERS SHALL COMPLY WITH TEMPLATE DETAIL UG-21.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT	TAPPING SLEEVE AND VALVE (WATER/RECLAIM)	UW-3
REV.BY / DATE — SEPT 12, 2023 DATE OF APPROVAL		

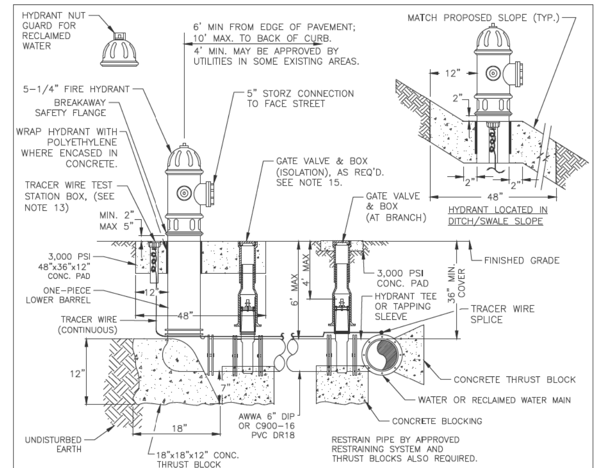


PROFILE

NOTES:

1. ALL FITTINGS TO BE WRAPPED WITH 20 MIL POLYETHYLENE WRAP AT THRUST BLOCK.
2. TRACER WIRE TEST STATION BOX IS REQUIRED AT CONNECTIONS TO EXISTING MAINS.
3. SHOULD THE TRACER WIRE STATION BOX CONCRETE PAD OVERLAP A SIDEWALK, THE TRACER WIRE TEST STATION BOX SHALL NOT BE LOCATED WITHIN THE SIDEWALK.
4. WATER VALVES SHALL BE INSTALLED ON ALL SIDES OF TEES AND CROSSES, UNLESS INLINE VALVES ON THAT LEG WITHIN 200 FEET.
5. RESTRAINED JOINTS MUST EXTEND FROM TEE FULL LENGTH SPECIFIED FOR VALVES.
6. SPACER IS REQUIRED IF A GAP EXISTS. SPACER NOT TO EXCEED OVER 30% OF SLEEVE WIDTH.
7. IN ASBESTOS CONCRETE PIPE (AC) APPLICATIONS: TWO COUPLINGS ARE REQUIRED. ALL FITTINGS INCLUDING COUPLINGS SHALL BE SUPPORTED WITH CONCRETE BLOCKING TO PREVENT SETTLEMENT.
8. ALL EXISTING RESTRAINING SHALL BE MODIFIED AND OR RE-INSTATED AS NECESSARY, TO MEET THE RESTRAINT REQUIREMENT FOR VALVES.
9. WHERE THRUST BLOCK NOT USED, RESTRAINED JOINTS MUST THEN EXTEND FROM TEE FULL LENGTH SPECIFIED FOR "TEES".

MANATEE COUNTY PUBLIC WORKS DEPARTMENT	CUT-IN TEE	UW-4
REV.BY / DATE — SEPT 12, 2023 DATE OF APPROVAL		



NOTES:

1. WEEPHOLES SHALL BE EXCLUDED FROM THE FIRE HYDRANT.
2. FIRE HYDRANTS SHALL BE A MINIMUM OF 6' OFF EDGE OF PAVEMENT AND 10' MAX. FROM BACK OF CURB. WHERE POSSIBLE AND WHERE SIDEWALK IS TO BE INSTALLED, FIRE HYDRANT SHALL BE LOCATED BETWEEN SIDEWALK AND RIGHT-OF-WAY LINE. THE STEAMER PORT SHALL BE A MIN. OF 1 INCH FROM THE EDGE OF SIDEWALK.
3. HYDRANT SHALL BE DUCTILE IRON CONSTRUCTION. HYDRANTS SHALL BE FUSION BONDED EPOXY COATED SAFETY YELLOW FOR WATER; PURPLE (PANTONE 522C) FOR RECLAIMED WATER; AND RED FOR PRIVATE.
4. FIRE HYDRANTS SHALL BE PLACED SO THAT STORM WATER FLOWS AWAY FROM THE HYDRANT.
5. FIRE HYDRANTS SHALL BE CONSTRUCTED WITH "GROUND LINE" SET TO FINISHED GRADES AS ESTABLISHED IN THE FIELD. NORMAL BURY IS 3 FEET OF COVER FOR ALL WATER LINES.
6. FIRE HYDRANTS MAY BE CONSTRUCTED WITH "GRADELOK" OFFSET FITTING.
7. RAISED REFLECTIVE PAVEMENT MARKER(S) (BLUE/BLUE) FOR POTABLE WATER (PURPLE/PURPLE) FOR RECLAIMED WATER SHALL BE INSTALLED AT THE CENTERLINE OF PAVEMENT INLINE WITH EACH HYDRANT; TWO MARKERS REQUIRED IF HYDRANT IS AT AN INTERSECTION CORNER.
8. ALL EXPOSED EDGES OF CONCRETE SHALL HAVE 1/2" CHAMFER.
9. FIRE HYDRANT VALVE SHALL BE FASTENED DIRECTLY TO TEE.
10. HYDRANTS SHALL BE LOCATED ON SAME SIDE OF ROAD AS WATER OR RECLAIMED MAIN.
11. THERE MUST BE A CLEARANCE OF 7 1/2 FEET FROM FRONT AND BOTH SIDES, AND FOUR FEET TO THE REAR OF THE HYDRANT, TO ABOVE GRADE OBSTRUCTIONS INCLUDING POSTS, FENCES, TREES, ETC, PER THE FLORIDA FIRE PREVENTION CODE.
12. SEE STANDARD DETAIL UW-2 GATE VALVE, BOX, LID AND TAG.
13. SHOULD THE FIRE HYDRANT'S CONCRETE PAD OVERLAP A SIDEWALK, THE TRACER WIRE TEST STATION BOX SHALL NOT BE LOCATED WITHIN THE SIDEWALK.
14. IF A HYDRANT IS LOCATED ON THE SLOPE OF A DITCH OR SWALE; THE CONCRETE PAD SHALL CONFORM TO THE FINISH GRADE/SLOPE. THE CONCRETE PAD SHALL BE LEVEL 2-INCHES BEHIND & IN FRONT OF THE HYDRANT.
15. AT THE DISCRETION OF THE COUNTY AN ADDITIONAL ISOLATION GATE VALVE SHALL BE ADDED, WHEN A PHYSICAL BARRIER IS PRESENT, (I.E. ROADWAY, FENCE, WALL, BERM ETC), BETWEEN THE BRANCH GATE VALVE AND THE HYDRANT.
16. SEE SECTION 1.11 HYDRANTS IN THE PUBLIC WORKS UTILITY STANDARDS MANUAL FOR FURTHER DETAILS.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT	FIRE HYDRANT ASSEMBLY	UW-5
REV.BY / DATE — SEPT 12, 2023 DATE OF APPROVAL		

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

No.	REVISIONS	DATE	BY

Kimley»Horn

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KHA PROJECT 148400070
DATE 10/02/2025
SCALE AS SHOWN
DESIGNED BY
DRAWN BY
CHECKED BY

Manatee County FLORIDA

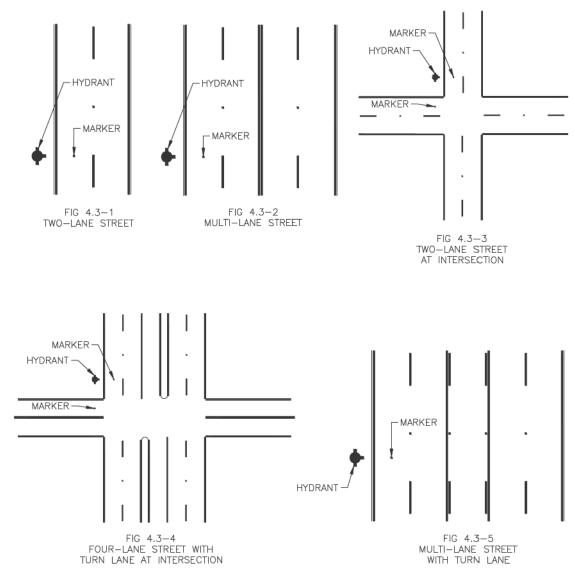
9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

UTILITY DETAIL SHEET (2)

SHEET NUMBER



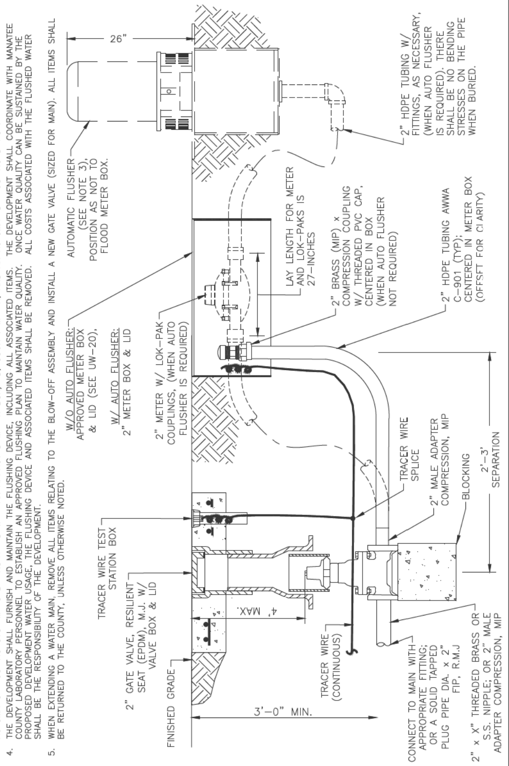
NOTES:

1. ALL STREETS OR ROADS: MARKER SHOULD BE PLACED IN THE CENTER OF THE TRAVEL LANE CLOSEST TO THE FIRE HYDRANT. SEE FIGURE 4.3-1, 4.3-2, AND 4.3-3.
2. STREETS WITH LEFT TURN LANE AT INTERSECTION: MARKER SHOULD BE PLACED 6 INCHES FROM EDGE OF PAINTED WHITE CHANNELIZING LINE OF THE SIDE NEAREST THE FIRE HYDRANT. SEE FIGURE 4.3-4.
3. STREETS WITH CONTINUOUS TWO-WAY TURN LANE: MARKER SHOULD BE PLACED 6 INCHES FROM THE EDGE OF THE PAINTED YELLOW BARRIER LINE ON THE SIDE NEAREST THE FIRE HYDRANT. SEE FIGURE 4.3-5.
4. MARKER SHALL BE BLUE/BLUE RAISED RETROREFLECTIVE PAVEMENT MARKER.

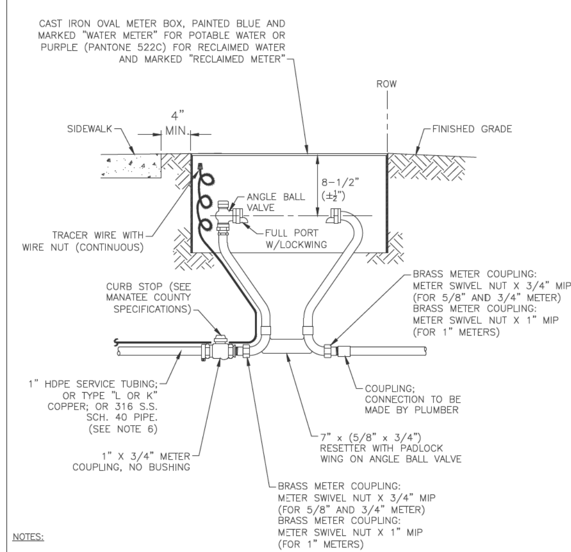
MANATEE COUNTY
PUBLIC WORKS DEPARTMENT
REV.BY | DATE
SEPT 12, 2023
DATE OF APPROVAL
HYDRANT LOCATION MARKERS – BLUE (RPMs)
UW-6

NOTES:

1. ALL DEAD-END WATER/RECLAIM MAINS REQUIRE A BLOW-OFF AT THE END, WHETHER TEMPORARY OR PERMANENT.
2. BLOW-OFF VALVE ASSEMBLIES, METER BOXES, AND/OR AUTOMATED FLUSHING DEVICES SHALL NOT BE LOCATED IN DRIVEWAYS OR SIDEWALKS, AND SHALL BE INSTALLED AS CLOSE TO THE LOT LINES AS POSSIBLE.
3. DEAD-END PUBLIC MAINS, WITH MORE THAN A 4-DAY WATER VOLUME TURN-OVER RATE, SHALL REQUIRE A COUNTY-METERED, PRIVATELY OWNED & MAINTAINED AUTOMATIC FLUSHING SYSTEM TO BE INSTALLED WITH AN APPROVED METER BOX/LID, COUNTY METER, AND AN AUTOMATED FLUSHING DEVICE.
4. THE DEVELOPMENT SHALL FURNISH AND MAINTAIN THE FLUSHING DEVICE, INCLUDING ALL ASSOCIATED ITEMS. THE DEVELOPMENT SHALL COORDINATE WITH MANATEE COUNTY LABORATORY PERSONNEL TO ESTABLISH AN APPROVED FLUSHING PLAN TO MAINTAIN WATER QUALITY. ONCE WATER QUALITY CAN BE SUSTAINED BY THE PROPOSED DEVELOPMENT WATER USAGE, THE FLUSHING DEVICE AND ASSOCIATED ITEMS SHALL BE REMOVED. ALL COSTS ASSOCIATED WITH THE FLUSHED WATER SHALL BE THE RESPONSIBILITY OF THE DEVELOPMENT.
5. WHEN EXTENDING A WATER MAIN, REMOVE ALL ITEMS RELATING TO THE BLOW-OFF ASSEMBLY AND INSTALL A NEW GATE VALVE (SIZED FOR MAIN). ALL ITEMS SHALL BE RETURNED TO THE COUNTY, UNLESS OTHERWISE NOTED.



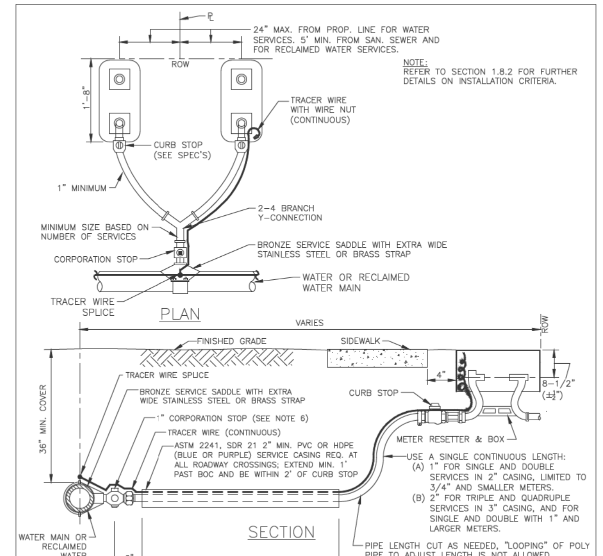
MANATEE COUNTY
PUBLIC WORKS DEPARTMENT
REV.BY | DATE
SEPT 12, 2023
DATE OF APPROVAL
2" BLOW-OFF ASSEMBLY
UW-8



NOTES:

1. METER BOX AND RESETTER ARE TO BE INSTALLED BY THE INFRASTRUCTURE CONTRACTOR AND SHALL NOT BE SET IN DRAINAGE SWALES, SIDEWALKS OR DRIVEWAYS. WITH PRIOR APPROVAL BY COUNTY, METER BOXES WITH LOCKABLE LIDS MAY BE LOCATED IN SIDEWALKS.
2. THE METER RESETTER SHALL BE INSTALLED IN SUCH A MANNER AS TO ALLOW REMOVAL AND REPLACEMENT WITHOUT DISTURBING THE STRUCTURAL INTEGRITY OF THE PIPING SYSTEM, THE SHUTOFF VALVES, OR THE RESETTER.
3. FOR COMPLETE SERVICE CONNECTION ASSEMBLY, SEE DETAIL UW-23 TYPICAL SERVICE CONNECTION.
4. WHEN THE DISTANCE BETWEEN THE EDGE OF THE SIDEWALK AND THE R/W IS ONE FOOT (CUL-DE-SAC W/ MEDIAN) A 10-FOOT-WIDE PUBLIC UTILITY EASEMENT SHALL BE LOCATED IN THE FRONT OF THE LOTS, ADJACENT TO THE ROW.
5. 3' MINIMUM CLEARANCE FROM LANDSCAPING PLANTS AND 10' MIN. CLEARANCE FROM TREES TO EDGE OF METER, CLEAR ACCESS OPENING TO STREET.
6. SERVICE TUBING SHALL NOT BE CRIMPED OR KINKED TO RE-ADJUST CURB STOP LOCATION.
7. "W" OR "R" SHALL BE IMPRESSED INTO THE NEWLY-POURED CONCRETE CURB (OR ROUTED INTO EXISTING CONCRETE CURB USING AN APPROVED TEMPLATE) AND INSTALL AN ALUMINUM BLUE DISC WITH "W" OR ALUMINUM PURPLE DISC WITH "R" AND THE FOOTAGE FROM THE DISC TO THE METER BOX USING A 1/8" x 1" GALVANIZED STEEL SCREW IN THE EDGE OF PAVEMENT. LETTERS SHALL COMPLY WITH TEMPLATE DETAIL UG-21.

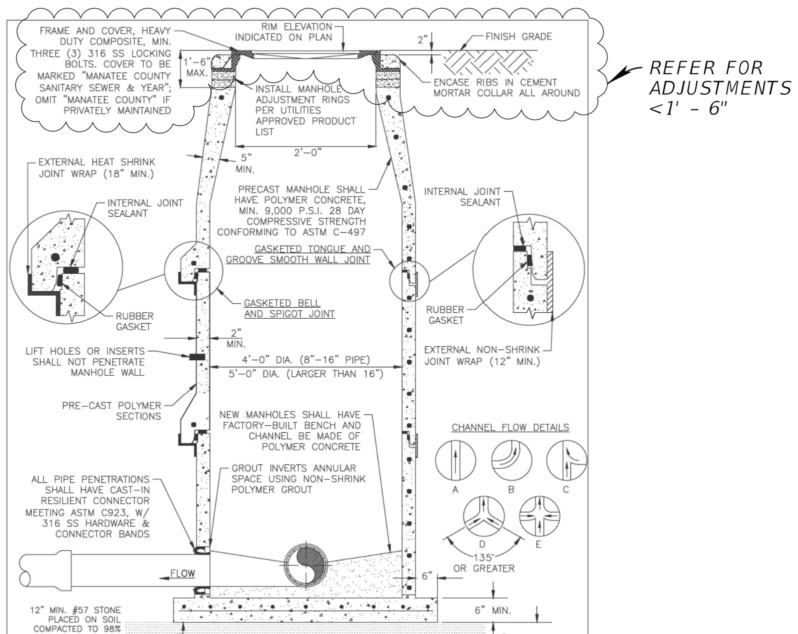
MANATEE COUNTY
PUBLIC WORKS DEPARTMENT
REV.BY | DATE
SEPT 12, 2023
DATE OF APPROVAL
METER BOX ASSEMBLY FOR 5/8" X 3/4"; 3/4"; AND 1" METERS
UW-20



NOTES:

1. ALL SERVICE TAPS TO BE LOCATED IN THE FIELD. TAPS SHALL BE NO CLOSER THAN 2'-0" STAGGERED INTERVALS OR WITHIN 2'-0" FROM BELL OR SPIGOT ENDS.
2. METER BOXES & RESETTERS ARE TO BE INSTALLED BY THE INFRASTRUCTURE CONTRACTOR AND SHALL NOT BE SET IN DRAINAGE SWALES, SIDEWALKS OR DRIVEWAYS. WITH PRIOR APPROVAL BY COUNTY, METER BOXES WITH LOCKABLE LIDS MAY BE LOCATED IN SIDEWALKS.
3. "W" OR "R" SHALL BE IMPRESSED INTO THE NEWLY POURED CONCRETE CURB (OR ROUTED INTO EXISTING CONCRETE CURB USING AN APPROVED TEMPLATE) AND INSTALL AN ALUMINUM BLUE DISC WITH "W" OR ALUMINUM PURPLE DISC WITH "R" AND THE FOOTAGE FROM THE DISC TO THE METER USING A 1/8"x 1" GALVANIZED STEEL SCREW IN THE EDGE OF PAVEMENT. LETTER SHALL COMPLY WITH TEMPLATE DETAIL UG-21.
4. COLOR CODED TRACER WIRE SHALL BE INSTALLED WITH WATER AND RECLAIMED MAIN AND ALL SERVICES. SERVICE WIRE SHALL BE CONNECTED TO THE TRACER WIRE ALONG THE MAIN. ON DOUBLE SERVICES, WHEN SECOND METER IS OVER 8 FT APART, TWO TRACER WIRES SHALL BE INSTALLED; ONE FOR EACH METER.
5. WATER AND RECLAIMED WATER SERVICE LINES TO BE 5' MINIMUM FROM SEWER SERVICE PIPES.
6. FOR 2" SERVICES, REPLACE CORPORATION STOP WITH A 2" RESILIENT WEDGE FIP GATE VALVE W/BOX, LID & TAG.
7. WHEN THE DISTANCE BETWEEN THE EDGE OF THE SIDEWALK AND THE ROW IS ONE FOOT (CUL-DE-SAC W/MEDIAN) A 10-FOOT-WIDE PUBLIC UTILITY EASEMENT SHALL BE LOCATED IN THE FRONT OF THE LOTS, ADJACENT TO THE ROW.
8. TEMPORARY RESIDENTIAL USE CAN BE PROVIDED BY CONTACTING THE UTILITY CUSTOMER SERVICE. SEE DETAIL UW-21.
9. SERVICE TUBING SHALL NOT BE CRIMPED OR KINKED TO RE-ADJUST CURB STOP LOCATION.

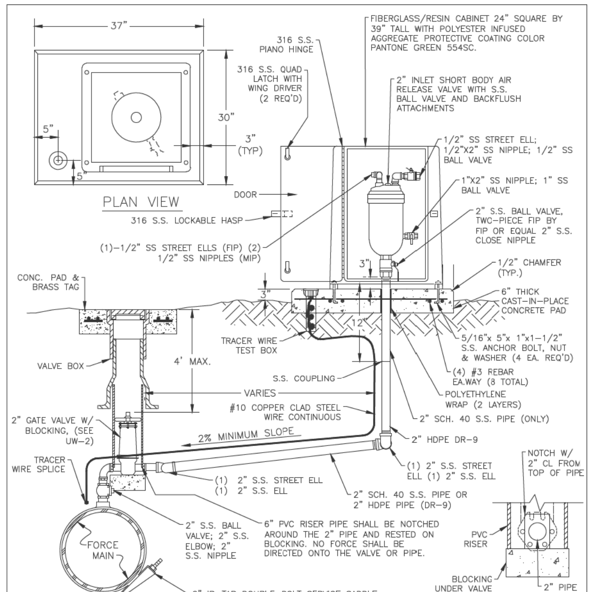
MANATEE COUNTY
PUBLIC WORKS DEPARTMENT
REV.BY | DATE
SEPT 12, 2023
DATE OF APPROVAL
TYPICAL SERVICE CONNECTION
UW-23



NOTE:

1. DROP MANHOLES, MANHOLES WITH OPPOSING TURBULENT FLOW (DETAILS D & E), MANHOLES UPSTREAM OF A LIFT STATION WET WELL (SEE US-25), MANHOLES WITH GRAVITY SEWERS GREATER THAN 12 INCHES IN DIAMETER, FORCE MAIN TERMINAL MANHOLE AND THE NEXT TWO DOWNSTREAM MANHOLES SHALL BE MADE OF POLYMER CONCRETE.
2. MANHOLES SHALL HAVE A GASKETED BELL & SPIGOT OR TONGUE & GROOVE SMOOTH WALL JOINT DESIGN.
3. ALL JOINTS SHALL MEET THE REQUIREMENTS OF ASTM C-443 AND ASTM C-990 FOR CONCRETE SEWER AND CULVERT PIPE USING RUBBER GASKETS AND FLEXIBLE JOINT SEALANTS.
4. ALL FRP/STEEL REINFORCEMENT, MANHOLE RISERS, CONES, BASES, AND FLAT LIDS SHALL BE DESIGNED BY MANUFACTURER TO MEET LOADING REQUIREMENTS OF ASTM C-478, ASTM C-857, ACI 350, AND ACI 440.1R AS MODIFIED FOR POLYMER CONCRETE MANHOLES.

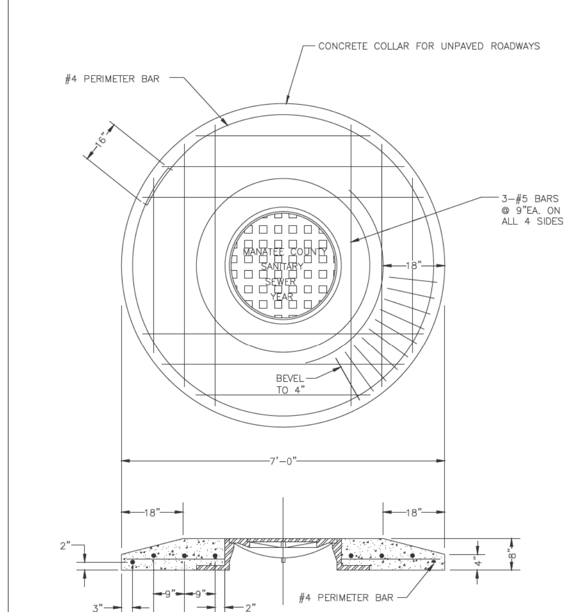
MANATEE COUNTY
PUBLIC WORKS DEPARTMENT
REV.BY | DATE
SEPT 12, 2023
DATE OF APPROVAL
STANDARD PRECAST POLYMER CONCRETE SANITARY SEWER MANHOLE FOR TURBULENT FLOW
US-3



NOTES:

1. AIR RELEASE VALVES TO BE ABOVE-GROUND INSTALLATIONS, UNLESS IMPRACTICAL. INSTALLATIONS MAY BE BELOW-GROUND ONLY WHERE APPROVED AND SPECIFICALLY INDICATED ON THE PLAN.
2. AIR RELEASE VALVES TO BE INSTALLED AT HIGH POINTS, OR WHERE AIR WOULD BE ENTRAPPED, ALONG 4" AND LARGER FORCE MAINS.
3. FORCE MAIN VERTICAL ALIGNMENT TO BE DESIGNED SUCH THAT THE MINIMUM NUMBER OF REQUIRED AIR RELEASE VALVES ARE INSTALLED.
4. ALL INCIDENTAL FITTINGS AND HARDWARE TO BE 316 STAINLESS STEEL.
5. ALL PIPE THREADS TO BE SEALED AIR TIGHT.
6. VENT PIPE TO BE LAID ACCURATELY ON SLOPE, WITHOUT HIGH OR LOW POINTS.
7. CONCRETE PAD SHALL BE TYPE I CONCRETE W/ 3,000 P.S.I., 28 DAY COMPRESSIVE STRENGTH.
8. ARV SHALL BE INSTALLED MINIMUM 6 FT FROM EDGE OF PAVEMENT; 10 FT MAXIMUM FROM BACK OF CURB; 4 FT MIN. MAY BE APPROVED BY UTILITIES IN SOME EXISTING AREAS.
9. SEE UW-2 GATE VALVE, BOX, LID AND TAG STANDARD DETAIL. CENTERING COLLAR IS NOT REQUIRED ON 2" GATE VALVES.

MANATEE COUNTY
PUBLIC WORKS DEPARTMENT
REV.BY | DATE
SEPT 12, 2023
DATE OF APPROVAL
ABOVE-GROUND AIR RELEASE VALVE ASSY. FOR FORCE MAINS
US-12



NOTES:

1. OMIT "MANATEE COUNTY", IF PRIVATELY MAINTAINED.
2. PORTLAND CEMENT SHALL CONFORM TO ASTM C150, TYPE 1, AND CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 P.S.I.

MANATEE COUNTY
PUBLIC WORKS DEPARTMENT
REV.BY | DATE
SEPT 12, 2023
DATE OF APPROVAL
MANHOLE COVER & CONCRETE COLLAR FOR UNPAVED ROADWAYS
US-13

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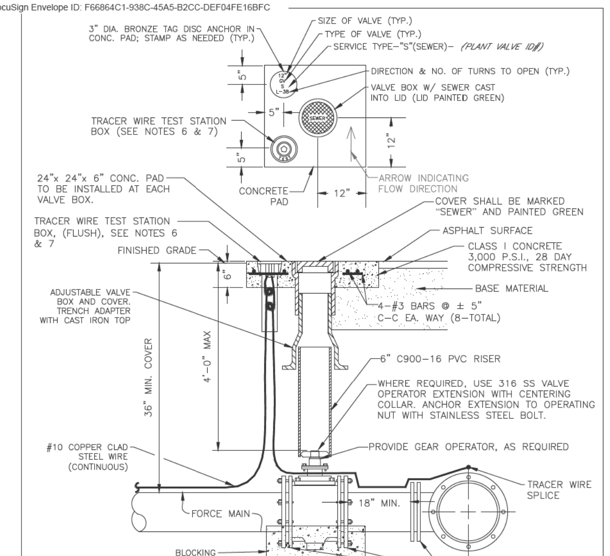

NOTES:

1. "S" SHALL BE IMPRESSED INTO THE NEWLY-POURED CONCRETE CURB (OR ROUTED INTO EXISTING CONCRETE CURB USING AN APPROVED TEMPLATE) AND INSTALL AN ALUMINUM GREEN DISC WITH "S" AND THE FOOTAGE FROM THE DISC TO THE VALVE USING A 1/8" x 1" GALVANIZED STEEL SCREW IN THE EDGE OF PAVEMENT. LETTERS SHALL COMPLY WITH TEMPLATE DETAIL UG-21.
2. ALL EXISTING AND PROPOSED VALVE BOXES SHALL BE ADJUSTED TO FINISHED GRADES AS DETERMINED IN THE FIELD.
3. VALVES SHALL NOT BE PLACED IN HANDICAPPED RAMPS, CURBS OR GUTTERS.
4. PRECAST CONCRETE PADS AND THRUST BLOCKS SHALL NOT BE USED.
5. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1/2".
6. USE NON-TRAFFIC RATED BOXES. WHERE VALVE WILL BE IN STREET OR PARKING UNDER VEHICLE TRAFFIC, USE TRAFFIC RATED BOXES. WHERE POSSIBLE, LOCATE TRACE WIRE TESTING STATION OUTSIDE OF TRAVEL LANE OR IN MEDIAN, CENTERED IN SEPARATE CONCRETE PAD SIMILAR TO STANDARD VALVE BOX PAD.
7. TRACER WIRE BOX SHALL BE LOCATED OUTSIDE THE ROADWAY ON THOROUGHFARES (COLLECTORS & ARTERIAL) AND STATE ROADWAYS.
8. SHOULD THE TRACER WIRE STATION BOX CONCRETE PAD OVERLAP A SIDEWALK, THE TRACER WIRE TEST STATION BOX SHALL NOT BE LOCATED WITHIN THE SIDEWALK.
9. THE BRASS TAG SHALL HAVE A "PLANT VALVE ID# WHEN VALVES ARE INSTALLED WITHIN THE COUNTY TREATMENT PLANT LIMITS. THE PLANT VALVE ID# SHALL BE SHOWN ON THE CONSTRUCTION PLANS AND RECORD DRAWINGS.
10. REFER TO SECTION 1.11 IN THE PUBLIC WORKS UTILITY STANDARDS MANUAL FOR FURTHER DETAILS.

MANATEE COUNTY
PUBLIC WORKS DEPARTMENT
REV.BY | DATE
SEPT 12, 2023
DATE OF APPROVAL
VALVE, BOX, COVER AND TAG
US-14

No.	REVISIONS	DATE	BY

Kimley»Horn

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1800 SECOND STREET, SUITE 900, SARASOTA, FL 34236
PHONE: 941-379-7600
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KHA PROJECT 148400070
DATE 10/02/2025
SCALE AS SHOWN
DESIGNED BY
DRAWN BY
CHECKED BY

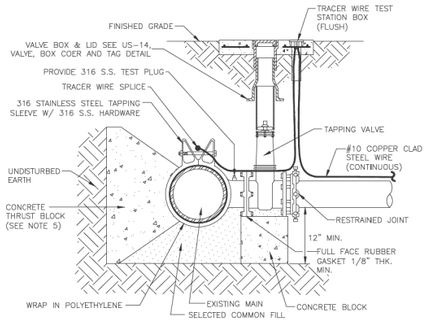
9TH AVENUE NW
MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

UTILITY DETAIL SHEET (3)

SHEET NUMBER
143

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

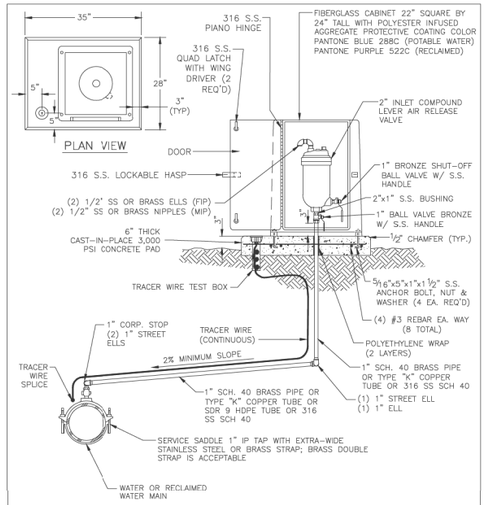


ELEVATION

NOTES:

1. PRIOR TO TAPPING, CONTRACTOR TO DEMONSTRATE 60 MINUTE HYDROSTATIC TEST OF THE TAPPING SLEEVE AND VALVE WITH NO LOSS OF 150 PSI FOR FORCE MAIN.
2. ALL FITTINGS TO BE WRAPPED WITH 20 MIL POLYETHYLENE PLASTIC SHEETING AT THRUST BLOCK.
3. ALL TAPS MUST BE OF A SMALLER SIZE THAN THE MAIN BEING TAPPED & PLACED NO CLOSER THAN 30" OR A DISTANCE EQUAL TO (1) MAIN PIPE DIAMETER PLUS (2) TAP PIPE DIAMETERS (WHICHEVER IS GREATER) FROM A JOINT OR FITTING.
4. CONTRACTOR TO SUPPLY A DRY HOLE FOR TAPPING CREW TO WORK IN AND A BACK-HOE TO LOWER TAPPING MACHINE INTO THE HOLE.
5. WHERE THRUST BLOCK NOT USED, RESTRAINED JOINTS MUST THEN EXTEND FROM TEE FULL LENGTH SPECIFIED FOR "TEES."
6. TRACER WIRE TEST STATION BOX IS REQUIRED AT CONNECTIONS TO EXISTING MAINS.
7. SHOULD THE TRACER WIRE STATION BOX CONCRETE PAD OVERLAP A SIDEWALK, THE TRACER WIRE TEST STATION BOX SHALL NOT BE LOCATED WITHIN THE SIDEWALK.
8. SEE SECTION 1.11 TAPPING SLEEVES AND VALVES IN THE PUBLIC WORKS UTILITY STANDARDS MANUAL FOR FURTHER DETAILS.
9. "S" SHALL BE IMPRESSED INTO THE NEWLY-POURED CONCRETE CURB (OR ROUTED INTO EXISTING CONCRETE CURB USING AN APPROVED TEMPLATE) AND INSTALL AN ALUMINUM GREEN DISC WITH "S" AND THE FOOTAGE FROM THE DISC TO THE VALVE USING A 1/8" x 1" GALVANIZED STEEL SCREW IN THE EDGE OF PAVEMENT. LETTERS SHALL COMPLY WITH TEMPLATE DETAIL UG-21.

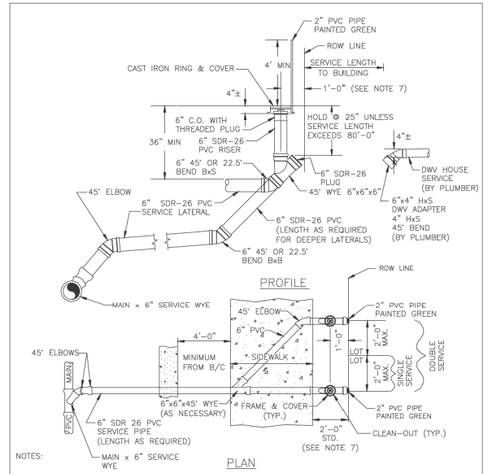
MANATEE COUNTY PUBLIC WORKS DEPARTMENT			
REV.BY	DATE	SEPT 12, 2023 DATE OF APPROVAL	TAPPING SLEEVE AND VALVE (FORCE MAINS)	US-15



NOTES:

1. AIR RELEASE VALVES TO BE INSTALLED AT HIGH POINTS ALONG THE CONSTRUCTED MAINS, WHERE AIR COULD BE TRAPPED.
2. ARV VENT ORIFICE TO BE SIZED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION FOR WATER MAIN SIZE.
3. ALL INCIDENTAL FITTINGS AND HARDWARE TO BE STAINLESS STEEL, BRASS OR COPPER.
4. ALL PIPE THREADS TO BE SEALED AIR TIGHT.
5. VENT PIPE TO BE LAID ACCURATELY ON SLOPE, WITHOUT HIGH OR LOW POINTS.
6. ARV SHALL BE INSTALLED MINIMUM 6 FT FROM EDGE OF PAVEMENT; 10 FT MAXIMUM FROM BACK OF CURB; 4 FT MIN MAY BE APPROVED BY UTILITIES IN SOME EXISTING AREAS.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT			
REV.BY	DATE	SEPT 12, 2023 DATE OF APPROVAL	ABOVE-GROUND AIR RELEASE VALVE ASSY. FOR 12-INCH AND SMALLER WATER MAINS	UW-10



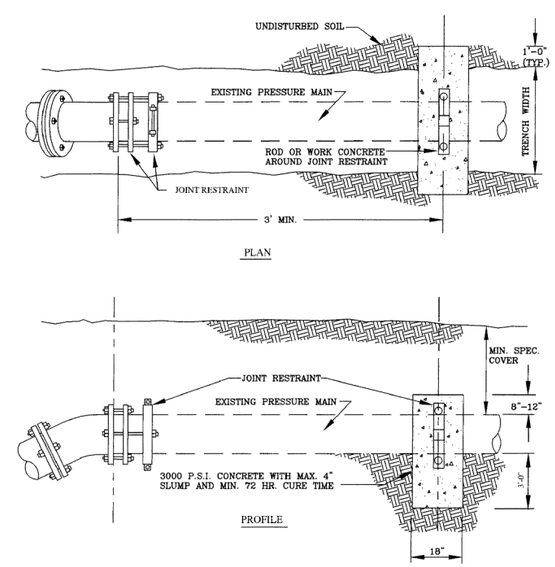
NOTES:

1. RUBBER DONUTS ARE NOT TO BE USED.
2. "S" SHALL BE IMPRESSED INTO THE NEWLY-POURED CONCRETE CURB (OR ROUTED INTO EXISTING CONCRETE CURB USING AN APPROVED TEMPLATE) AND INSTALL AN ALUMINUM GREEN DISC WITH "S" AND THE FOOTAGE FROM THE DISC TO THE CLEAN-OUT USING A 1/8" X 1" GALVANIZED STEEL SCREW IN THE EDGE OF PAVEMENT. LETTERS SHALL COMPLY WITH TEMPLATE DETAIL UG-21.
3. SANITARY SEWER CLEAN-OUTS SHALL NOT BE LOCATED IN DRAINAGE SWALES, EASEMENTS, SIDEWALKS OR DRIVEWAYS.
4. NO SERVICE CONNECTIONS TO BE MADE TO THE CLEAN-OUT RISER. ALL DOMESTIC CONNECTIONS SHALL BE MADE TO THE STUB-OUT PROVIDED.
5. SEWER SERVICE SHALL BE 5' MIN. FROM WATER SERVICE OR FIRE HYDRANT.
6. CLEAN-OUT ADAPTER TO BE SOLVENT-WELDED TO RISER TOP. CLEAN-OUT THREADS SHALL BE WRAPPED WITH TEFLON PLUMBERS TAPE TO SEAL PLUG WATERTIGHT.
7. WHEN THE DISTANCE BETWEEN THE EDGE OF THE SIDEWALK & THE ROW LINE IS ONE FOOT (CUL-DE-SAC W/MEDIAN) THE DISTANCE BETWEEN THE CENTER OF THE CLEAN-OUT RISER & THE ROW LINE SHALL BE 6".

MANATEE COUNTY PUBLIC WORKS DEPARTMENT			
REV.BY	DATE	SEPT 12, 2023 DATE OF APPROVAL	SINGLE AND DOUBLE SERVICE CONNECTION	US-16

NOTES:

1. ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST APPROVED MATERIAL SPECIFICATION MANUAL.
2. FITTING CONNECTION TO EXISTING PIPE AND REVERSE DEADMAN MUST BE PART OF ONE INTEGRAL JOINT OF PIPE.
3. REVERSE DEADMAN FOR 16" AND LARGER PIPES SHALL BE DESIGNED BY ENGINEER.



REVERSE DEADMAN RESTRAINT DETAIL

No.	REVISIONS	DATE	BY

Kimley»Horn

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1800 SECOND STREET, SUITE 900, SARASOTA, FL 34236
PHONE: 941-379-7600
WWW.KIMLEY-HORN.COM

KHA PROJECT 148400070
DATE 10/02/2025
SCALE AS SHOWN
DESIGNED BY
DRAWN BY
CHECKED BY

Manatee County FLORIDA

9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

UTILITY DETAIL SHEET (4)

SHEET NUMBER 144

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

SWPP / EROSION CONTROL PLAN
PROJECT NAME: 9TH AVENUE NW

I. SITE DESCRIPTION

(1) NATURE OF CONSTRUCTION ACTIVITIES:

THE PROPOSED IMPROVEMENTS INCLUDE THE RECONSTRUCTION AND RESURFACING OF THE WEST END OF THE 9TH AVENUE NW ROADWAY FROM 75TH STREET NW TO 99TH STREET NW. THE PROJECT WILL CONSIST OF A STANDARD 10.5-FOOT-WIDE VEHICLE LANE WIDTHS, A 10-FOOT MULTI-USE TRAIL, SIDEWALKS, CROSSWALKS, SIGNAGE AND STRIPING, STREET LIGHTING, PIPED AND OPEN DRAINAGE SYSTEMS, WETLAND MITIGATION AREAS, AND POTENTIALLY FLOODPLAIN COMPENSATION AREAS. THESE PROPOSED IMPROVEMENTS REQUIRE RIGHT-OF-WAY ACQUISITIONS FOR FUTURE SIDEWALKS. THE PROJECT EXTENDS EASTERNLY APPROXIMATELY 1.9 MILES.

(2) SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

(a) THE CONTRACTOR SHALL BE REQUIRED TO PREPARE A SITE SPECIFIC EROSION AND SEDIMENT CONTROL PLAN ALONG WITH A DETAILED CONSTRUCTION SCHEDULE TO INDICATE DATES OF MAJOR GRADING ACTIVITIES AND DETERMINE SEQUENCES OF TEMPORARY AND PERMANENT SOIL DISTURBING ACTIVITIES ON ALL PORTIONS OF THE PROJECT.
(b) THE CONTRACTOR WILL BE REQUIRED TO MODIFY THE PLAN OR MATERIALS TO ADAPT TO SEASONAL VARIATIONS, CONSTRUCTION ACTIVITY VARIATIONS, OR AS DIRECTED BY THE ENGINEER.
(c) APPLICABLE EROSION AND SEDIMENT CONTROL DEVICES AND IMPLEMENTATION PRODUEDURES ARE SUPPLIED IN THE FDOT STANDARD INDEXES AND THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEW MANUAL (E&SC MANUAL).
(d) THE ENGINEER IS RESPONSIBLE FOR DETERMINING IF ANY MODIFICATIONS OR ADDITIONAL CONTROLS ARE REQUIRED AND TO OBTAIN DEPLOYMENT SCHEDULES FOR THE IMPLEMENTATION OF ALL EROSION AND SEDIMENT CONTROL DEVICES FROM THE CONTRACTOR.

(3) GENERAL NOTES:
(a) ALL EROSION AND SEDIMENT CONTROL DEVICES FOR EACH PHASE OF WORK ARE TO BE INSTALLED PRIOR TO BEGINNING WORK ON THAT PHASE.
(b) INSTALL EROSION AND SEDIMENT CONTROL DEVICES WHERE LISTED IN THE CONTRACTOR'S APPROVED AND SEDIMENT CONTROL PLAN FOR PERIMETER CONTROLS BEFORE THE LAND IS DISTURBED.
(c) PROVIDE SEDIMENT BARRIERS WHERE LISTED IN THE CONTRACTOR'S APPROVED EROSION AND SEDIMENT CONTROL PLAN FOR DITCH/SWALE CHECK DAMS DURING CONSTRUCTION.
(d) PROVIDE INLET PROTECTION SYSTEMS AT INLET OPENINGS.
(e) COVER OR STABILIZE DISTURBED AREAS AS SOON AS POSSIBLE.
(f) DO NOT DISTURB AND AREA UNTIL IT IS NECESSARY FOR CONSTRUCTION TO PROCEED.
(g) TIME CONSTRUCTION ACTIVITIES TO LIMIT IMPACT FROM SEASONAL CLIMATE CHANGES OR WEATHER EVENTS.
(h) DO NOT REMOVE PERIMETER CONTROLS UNTIL ALL UPSTREAM AREAS ARE FULLY STABILIZED AND PERMANENT VEGETATION IS ESTABLISHED

(4) PROJECT AREAS:
THE ESTIMATED TOTAL PROJECT AREA IS 16.5 ACRES. THE ESTIMATED AREA TO BE DISTURBED DURING CONTRUCTION ACTIVITIES IS 16.5 ACRES.

(5) RUNOFF COEFFICIENTS BEFORE Cw (B), DURING CW (D) AND AFTER Cw (A) CONSTRUCTION:

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

WEIGHTED RUNOFF COEFFICIENT:
BEFORE: Cw (B) = 0.70 DURING: Cw (D) = VARIES 0.70 TO 0.64 AFTER: Cw (A) = 0.64

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

(6) DESCRIPTION OF SOIL OR QUALITY OF DISCHARGE

THERE IS NOT A PREDOMINANT SOIL WITHIN THE 9TH AVENUE NW PROJECT LIMITS.

SOIL TYPE	HYDROLOGIC GROUP	SHWE DEPTH
CANOVA, ANCIOTE, AND OKEELANTA SOILS	A/D	0"-6"
DELRAY-EAUGALLIE COMPLEX	A/D	0"-18"
DUETTE FINE SAND	A	48"-72"
EAUGALLIE-EAUGALLIE WET, FINE SAND	A/D	3"-18"
ESTERO MUCK, TIDAL	A/D	0"
FLORIDANA-IMMOKALEE-OKEELANTA ASSOCIATION	C/D	0"
ORSINO FINE SAND	A	42"-60"
PARKWOOD VARIANT-CHOBEE, LIMESTONE	A/D	0"-18"
POMELLO FINE SAND	A	18"-42"

REFERENCE: USDA SOIL SURVEY OF MANATEE COUNTY FLORIDA

(7) SITE MAP:

THE 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.

(a) APPROXIMATE SLOPES: THE SLOPES OF THE SITE CAN BE SEEN IN CROSS SECTION SHEETS, PLAN SHEETS AND PROFILE SHEETS.
(b) AREAS OF SOIL DISTURBANCE: THE AREAS TO BE DISTURBED ARE INDICATED ON THE PLAN SHEETS THE CROSS SECTION SHEETS, AND THE DETAIL SHEETS. ANY AREA OF NEW CONSTRUCTION WILL BE DISTURBED.
(c) AREAS NOT TO BE DISTURBED: THE AREAS NOT TO BE DISTURBED ARE THE EXISTING BANKS BEYOND THE LIMITS OF CONSTRUCTION.
(d) DISCHARGE POINTS TO SURFACE WATERS: THE DISCHARGE POINTS ARE SHOWN ON THE PLAN SHEETS.

(8) RECEIVING WATERS:

BASIN	WBID	PARAMETER(S) OF CONCERN FOR 303(d) LISTING
PALMA SOLA BAY	1883	N/A

(9) OUTFALL LOCATIONS:

	DESCRIPTION	MILEPOST	LATITUDE	LONGITUDE
(a)	EXIST. MES	N/A	N27°30'26.3"	W82°39'46.0"
(b)	PROP. DITCH	N/A	N27°30'17.2"	W82°39'17.5"
(c)	PROP. DBI	N/A	N27°30'16.0"	W82°38'57.0"

(10) WETLAND AND/OR SURFACE WATER IMPACTS ARE LIMITED TO THE AREAS DESCRIBED IN THE APPROVED PERMITS FOR THE PROJECT.

(11) DESCRIPTION OF STORMWATER MANAGEMENT: (EXISTING/PROPOSED):

(A) ROBINSON PRESERVE TO STA. 22+37.00:
EXISTING - DRAINAGE SWALES RUN ON EACH SIDE OF THE ROADWAY, CONVEYING RUNOFF TO EXISTING OUTFALLS AT THE ROBINSON PRESERVE AND TO AN OUTFALL DITCH SOUTH OF HAWTHORN PARK.
PROPOSED - A PROPOSED DRAINAGE SYSTEM WILL COLLECT ROADWAY AND OFFSITE RUNOFF TO APPROPRIATE OUTFALLS WITHOUT CREATING ADVERSE IMPACTS.

(B) STA. 22+37.00 TO 92ND STREET NW:
EXISTING - AN EXISTING INLET AND PIPE SYSTEM CAPTURES ROADWAY RUNOFF AND CONVEYS IT TO THE EXISTING OUTFALL DITCH LOCATED SOUTH OF HAWTHORN PARK.
PROPOSED - A 10-FOOT WIDE MULTI-USE TRAIL IS PROPOSED TO THE NORTH SIDE OF THE ROADWAY AND EXISTING DITCH SIDE SLOPES WILL BE REGRADED AS NECESSARY.

(C) 92ND STREET NW TO 87TH STREET NW:
EXISTING - AN EXISTING INLET AND PIPE SYSTEM CAPTURES ROADWAY RUNOFF AND CONVEYS IT TO THE EXISTING OUTFALL DITCH LOCATED SOUTH OF HAWTHORN PARK.
PROPOSED - A 10-FOOT WIDE MULTI-USE TRAIL IS PROPOSED TO THE NORTH SIDE OF THE ROADWAY AND A NEW INLET AND PIPE SYSTEM IS PROPOSED TO CAPTURE ROADWAY RUNOFF AND IS ANTICIPATED TO TIE INTO THE EXISTING STORM SEWER TRUNK LINE.

(D) 87TH STREET NW TO 83RD STREET NW:
EXISTING - AN EXISTING INLET AND PIPE SYSTEM CAPTURES ROADWAY RUNOFF AND CONVEYS IT TO THE EXISTING OUTFALL DITCH LOCATED SOUTH OF HAWTHORN PARK.
PROPOSED - DUE TO A SHIFT IN THE CURB LINE, A NEW INLET AND PIPE SYSTEM IS PROPOSED TO CAPTURE ROADWAY RUNOFF AND IS ANTICIPATED TO TIE INTO THE EXISTING STORM SEWER TRUNK LINE.

(E) 83RD STREET TO 78TH STREET NW:
EXISTING - AN EXISTING INLET AND PIPE SYSTEM CAPTURES ROADWAY RUNOFF AND CONVEYS IT TO THE EXISTING CROSS DRAIN LOCATED AT 78TH STREET.
PROPOSED - CONNECTIONS TO THE TRUNK LINE AT THE INTERSECTIONS ARE BEING ADJUSTED BUT THE EXISTING SYSTEM WILL REMAIN INTACT.

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

No.	REVISIONS	DATE	BY

Kimley»Horn
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1800 SECOND STREET, SUITE 900, SARASOTA, FL 34236
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KHA PROJECT 148400070
DATE 10/02/2025
SCALE AS SHOWN
DESIGNED BY
DRAWN BY
CHECKED BY

Manatee County FLORIDA
9TH AVENUE NW
MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

STORMWATER POLLUTION PREVENTION PLAN (1)

SHEET NUMBER 145

SWPP / EROSION CONTROL PLAN
PROJECT NAME: 9TH AVENUE NW

II. CONTROLS:
SEDIMENT AND EROSION CONTROLS

(1) WATER QUALITY MONITORING:

(a) WATER QUALITY MONITORING SHALL BE CONDUCTED IN ACCORDANCE WITH THE SPECIAL CONDITIONS OF ANY ENVIRONMENTAL PERMIT OR BY THE CONTRACTOR UPON THE OBSERVATION THAT WATER QUALITY STANDARDS MAY BE VIOLATED BY THE CONTRACTOR'S ACTIVITIES. MONITORING LOCATIONS MAY BE SPECIFIED IN THE ENVIRONMENTAL PERMIT OR MAY BE DESIGNATED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
(b) THE ENGINEER WILL BE RESPONSIBLE FOR MONITORING ANY ACTIVITIES FOR VIOLATION OF WATER QUALITY STANDARDS AS THEY RELATE TO TURBIDITY (NO GREATER THAN 29 NTU'S ABOVE BACKGROUND OR GREATER THAN 0 NTU'S ABOVE BACKGROUND FOR DIRECT DISCHARGES TO OSW'S).
(c) IF WATER QUALITY STANDARDS ARE VIOLATED, CONSTRUCTION SHALL BE STOPPED IMMEDIATELY, THE ENVIRONMENTAL PERMIT CONDITIONS FOLLOWED AND EROSION AND SEDIMENT CONTROL DEVICES REEVALUATED AND APPROVED BY THE ENGINEER PRIOR TO THE CONTINUATION OF ACTIVITY. MONITORING ACTIVITIES AND TURBIDITY READINGS SHALL BE RECORDED ON THE CONSTRUCTION INSPECTION REPORT AND CONTINUED UNTIL TURBIDITY READINGS FALL BELOW THE SPECIFIED ACCEPTABLE LEVEL.
(d) WATER QUALITY MONITORING MAY BE CONDUCTED DURING ANY PHASE OF CONSTRUCTION AS DIRECTED BY THE ENGINEER.

(2) STABILIZATION PRACTICES:

(a) STABILIZATION MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO MAINTAINING, ESTABLISHING AND USING VEGETATION, APPLYING MULCHES, SODDING, SEEDING, BMP'S AND THE USE OF ROLLED EROSION CONTROLLED PRODUCTS. WHEN CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMAMENTLY CEASED, SIDE SLOPES SHALL BE STABILIZED WITH PERFORMANCE SODDING OR SEEDING OR ANY OTHER APPROVED METHOD OF STABILIZATION INCLUDED IN THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEW MANUAL (E&SC MANUAL).
(b) STABILIZATION SHALL TAKE PLACE AS SOON AS PRACTICAL IN PORTIONS OF THE PROJECT WHERE CONSTRUCTION ACTIVITIES HAVE CEASED, BUT NO LATER THAN 7 DAYS AFTER ANY CONSTRUCTION ACTIVITY CEASES EITHER TEMPORARILY OR PERMANENTLY.
(c) ALL EROSION CONTROL DEVICES SHALL BE INSTALLED ACCORDING TO THE CONTRACT DOCUMENTS, AND THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN.
(d) ANY TEMPORARY MATERIAL USED FOR POLLUTION OR EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT AND FINAL STABILIZATION OF THE PROJECT HAS BEEN ACHIEVED.
(e) SEDIMENT BARRIERS SHOULD BE USED ALONG THE LENGTH OF THE PROJECT WHERE THE GROUND SLOPES AWAY FROM THE RIGHT OF WAY OR WHERE THERE IS POTENTIAL FOR SEDIMENT TO BE DIRECTED OFF-SITE. PARTICULAR CARE SHOULD BE USED WHEN THERE ARE WETLANDS OR WATERS OF THE U.S. ARE INVOLVED. SEDIMENT BARRIERS SHOULD BE USED AROUND THE PERIMETER OF STOCKPILE AREAS.
(f) SPACING OF SEDIMENT BARRIERS USED AS DITCH OR SWALE CHECKS/DAMS SHOULD BE BASED UPON THE HEIGHT OF THE BARRIER AND THE SLOPE OF THE DITCH OR SWALE.
(g) THE CONTRACTOR SHALL BE RESPONSIBLE FOR MODIFYING SOIL TRACKING PREVENTION SYSTEMS OR PROCEDURES AS NEEDED.

(3) STRUCTURAL PRACTICES FOR EROSION AND SEDIMENT CONTROL

(a) SEDIMENT BARRIERS (TEMPORARY SITE BMP'S)

PURPOSE: SEDIMENT BARRIERS EITHER OBSTRUCT FLOW OR PREVENT THE PASSAGE OF A WATER WHILE CONSTRUCTION ACTIVITIES OCCUR. SMALLER SEDIMENT BARRIERS MAY FUNCTION AS A SMALL SEDIMENT CONTAINMENT SYSTEM OR AS A METHOD TO REDUCE FLOW VELOCITY.

(1) THESE CONSTRUCTION BMP'S CAN INCLUDE SYNTHETIC BALES, STAKED SILT FENCE, TURBIDITY BARRIER, STORM SEWER INLET BARRIERS, ROCK BARRIERS, GEOSYNTHETIC BARRIERS, ETC.
(2) APPROPRIATE LOCATIONS INCLUDE SITE PERIMETER, BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION, BELOW THE TOE OF EXPOSED AND ERODIBLE SLOPES, ALONG THE TOE OF STREAM AND CHANNEL BANKS, AROUND DRAINS AND INLETS LOCATED IN LOWPOINTS OR THE DOWNSTREAM EDGE OF AREAS UNDERGOING VERTICAL OR BOX CULVERT CONSTRUCTION ACTIVITIES.
(3) INAPPROPRIATE LOCATIONS OFR THESE SAME MEASURES INCLUDE PARALLEL TO A HILLSIDE CONTOUR, IN CHANNELS WITH CONCENTRATED FLOW (UNLESS PROPERLY REINFORCED), UPSTREAM OR DOWNSTREAM OF CULVERTS WITH CONCENTRATED FLOW, IN FRONT OF OR AROUND INLETS ON A GRADE WITH CONCENTRATED FLOW OR IN FLOWING STREAMS.

(b) FLOATING TURBIDITY BARRIER

PURPOSE: USED IN PERMANENT BODIES OF WATER TO RETAIN SEDIMENT AND FLOATING DEBRIS FROM A CONSTRUCTION AREA SO THAT REMOVAL OR CONTAINMENT OF THE MATERIAL IS POSSIBLE. THEY ARE ALSO USED TO CONTROL MIGRATION OF SUSPENDED SEDIMENTS.

(1) TYPE I, LIGHT DUTY, IS USED WHERE THERE IS LITTLE OR NO CURRENT, NO WIND OR WAVE ACTION.

(c) INLET PROTECTION SYSTEM

PURPOSE: ANY OF A NUMBER OF SEDIMENT BARRIERS THAT EITHER PREVENT SEDIMENT FROM ENTERING AN INLET OR TRAP THE SEDIMENTS ONCE THEY ENTER THE INLET.

(1) TYPICAL APPLICATIONS INCLUDE ROCK BARRIERS, FRAME AND FILTER BARRIERS, CURB INLET "SUMP" BARRIER, CURB INLET DIVERSION BERM, CURB AND GUTTER SEDIMENT CONTAINMENT SYSTEM OR CURB INLET INSET.
(2) SHOULD BE INSTALLED ONLY WHEN CONSTRUCTION ACTIVITIES ARE ONGOING AND ONLY WHERE SUMP CONDTITIONS EXIST.
(3) SHOULD NOT BE USED WHEN CONSTRUCTION IS COMPLETE AND SHOULD NOT BE USED IN AREAS WHERE FLOODING COULD ENROACH INTO THE TRAVEL LANE

III. OTHER CONTROLS:

(1) WASTE DISPOSAL
(a) THE CONTRACTOR WILL PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT BOUNDARIES DURING CONSTRUCTION ACTIVITIES.
(b) ALL FERTILIZER AND CHEMICAL CONTAINERS SHALL BE DISPOSED OF BY THE CONTRACTOR ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.
(c) NO SOLID MATERIALS, INCLUDING BUILDING AND CONSTRUCTION MATERIALS, SHALL BE DISCHARGED TO WETLANDS OR BURIED ON SITE.
(d) ALL SANITARY WASTE WILL BE COLLECTED FROM PORTABLE UNITS BY A LICSENSED SANITARY WASTE MANAGEMENT CONTRACTOR AS REQUIRED BY STATE REGULATIONS.

(2) OFF-SITE VEHICLE TRACKING - WILL BE CONTROLLED BY THE FOLLOWING METHODS:
(a) LOADED HAUL TRUCKS ARE TO BE COVERED BY A TARPAULIN AT ALL TIMES.
(b) EXCESS DIRT ON ROAD WILL BE REMOVED DAILY.

IV. MAINTENANCE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND REPAIRS OF ALL EROSION AND SEDIMENT CONTROL DEVICES AND REMOVAL OF EROSION AND SEDIMENT CONTROL DEVICES WHEN NOTICE OF TERMINATION IS MAILED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND PROPER DISPOSAL OF SEDIMENT BUILDUP THROUGH THE LIFE OF THE INSTALLED EROSION AND SEDIMENT CONTROL DEVICES.

(1) ALL CONTROL MEASURES WILL BE MAINTAINED DAILY BY THE CONTRACTOR AND ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF NOTICE.
(2) SODDING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
(3) SYNTHETIC BALES SHALL BE MAINTAINED TO ENSURE THEIR USEFULNESS AND NOT BLOCK OR IMPEDE STORMWATER FLOW OR DRAIANGE.
(4) STABILIZED CONSTRUCTION ENTRANCES SHALL BE MAINTAINED TO PREVENT CLOGGING OF ROCK BEDDING WHICH MAY IMPEDE THE USEFULNESS OF THE STRUCTURE.

V. INSPECTION:

(1) THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAUGES ON THE PROJECT SITE AND RECORD WEEKLY RAINFALL IN ACCORDANCE WITH THE NPDES PERMIT.
(2) ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSPECTED DAILY BY CONTRACTOR'S PERSONNEL WHO ARE F.D.E.P. CERTIFIED STORMWATER MANAGEMENT INSPECTORS.
(3) THE CONTRACTOR SHALL COMPLETE ALL SWPPP INSPECTION REPORT FORMS REQUIRED FOR THE NPDES PERMIT.

IV. TRACKING AND REPORTING:

(1) THE CONTRACTOR SHALL SUBMIT A WEEKLY REPORT TO THE DEPARTMENT DOCUMENTING THE DAILY INSPECTIONS AND MAINTENANCE OR REPAIRS TO THE EROSION AND SEDIMENT CONTROL DEVICES.
(2) PREPARATION OF ALL THE CONTRACTOR'S REPORTS OF INSPECTION, MAINTENANCE AND REPAIRS REQUIRED FOR THE CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION, SHALL BE INCLUDED IN THE INDIVIDUAL COSTS OF THE EROSION AND SEDIMENT CONTROL DEVICES.

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No.	REVISIONS	DATE	BY

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KHA PROJECT 148400070
DATE 10/02/2025
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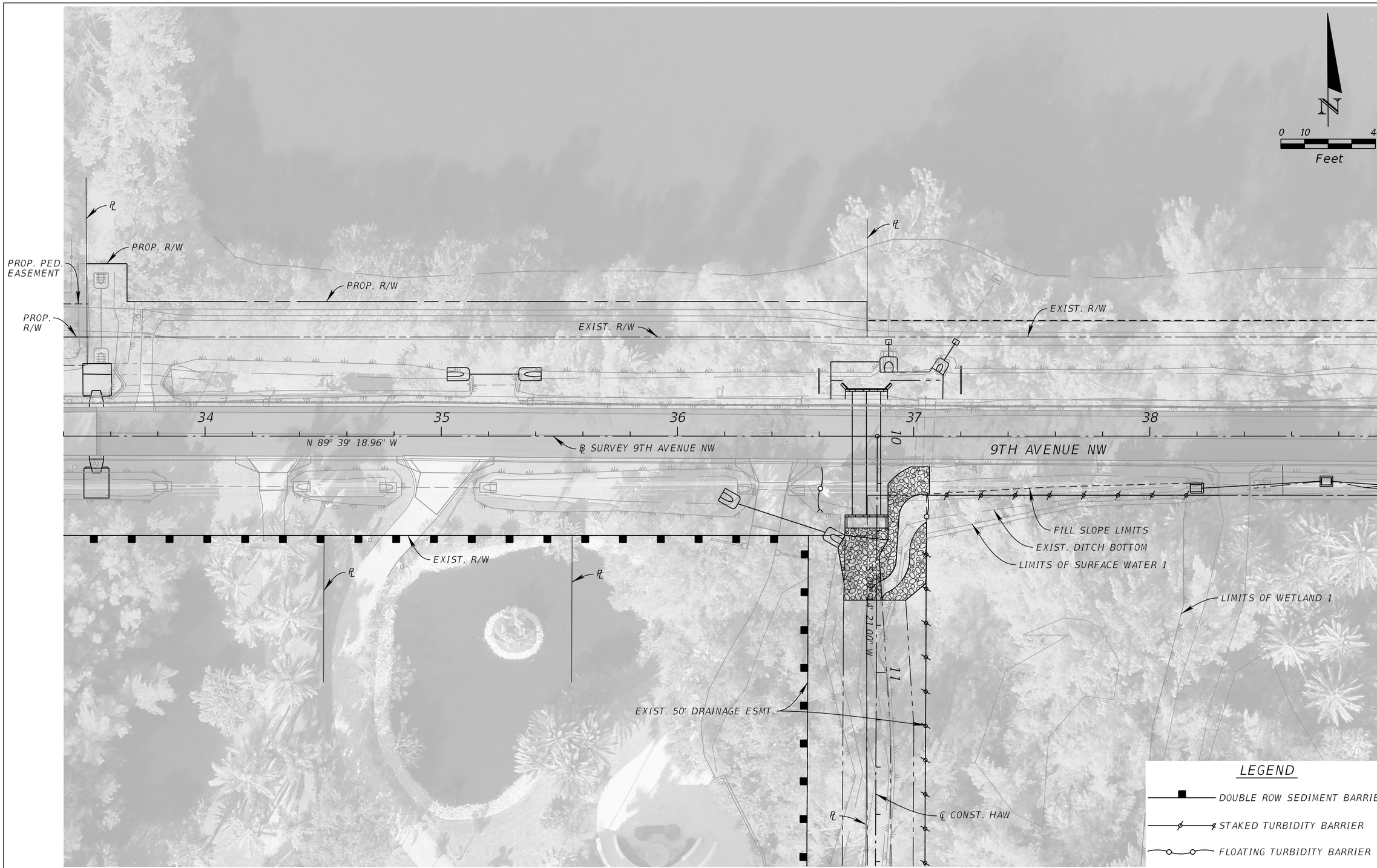
DESIGNED BY
DRAWN BY
CHECKED BY

Manatee County FLORIDA
9TH AVENUE NW
MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

STORMWATER POLLUTION PREVENTION PLAN (2)

SHEET NUMBER
146



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9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

STORMWATER POLLUTION PREVENTION PLAN (3)

SHEET NUMBER
147

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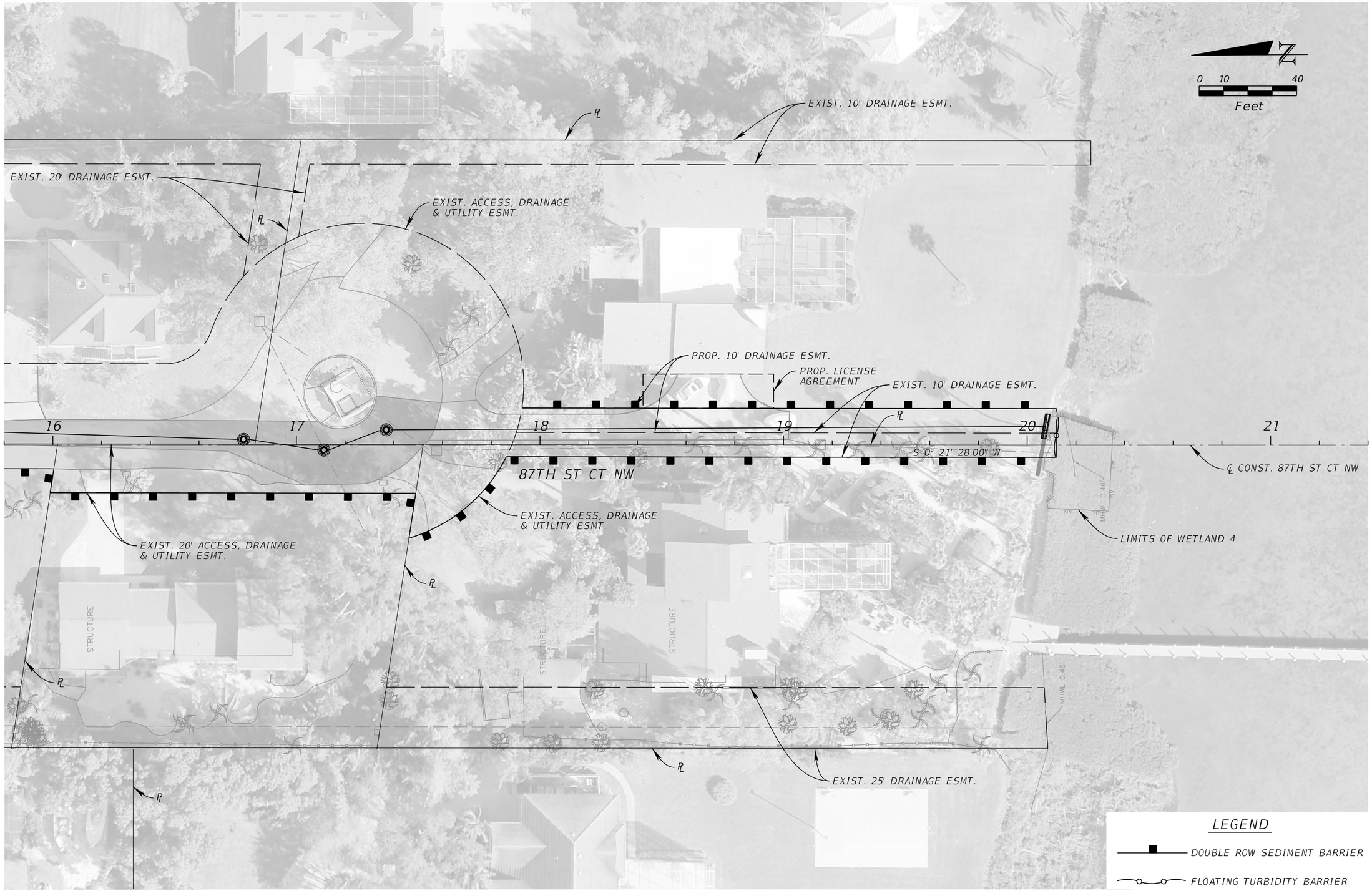

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9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

STORMWATER POLLUTION PREVENTION PLAN (4)

SHEET NUMBER
148

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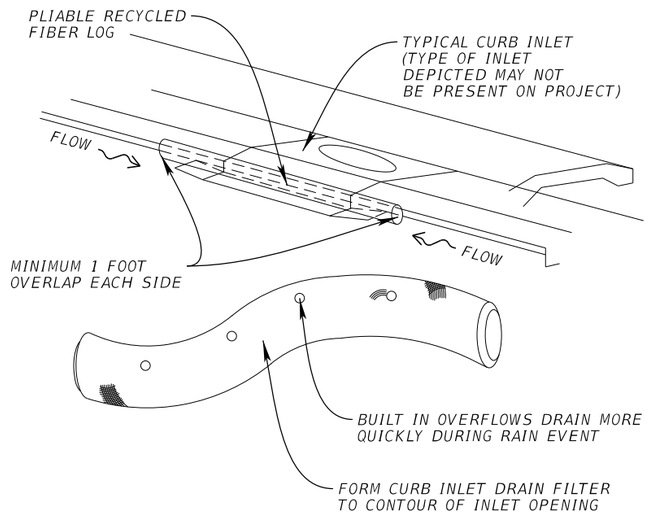
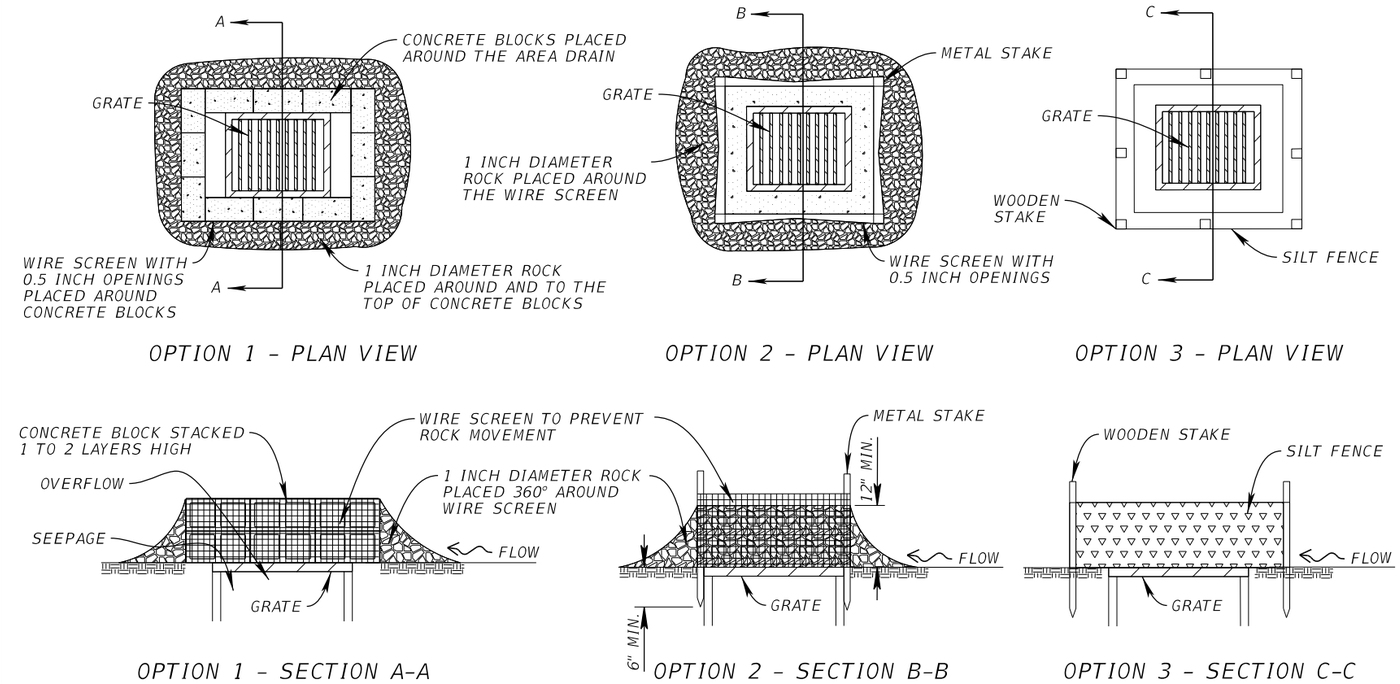
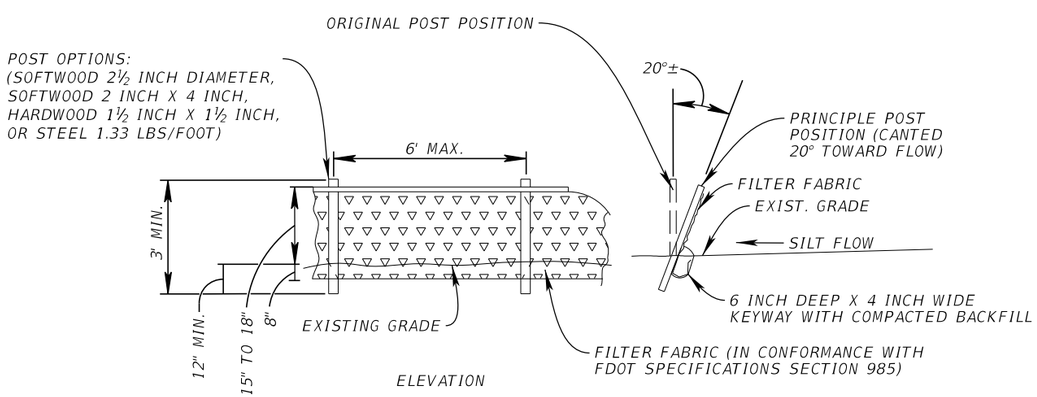


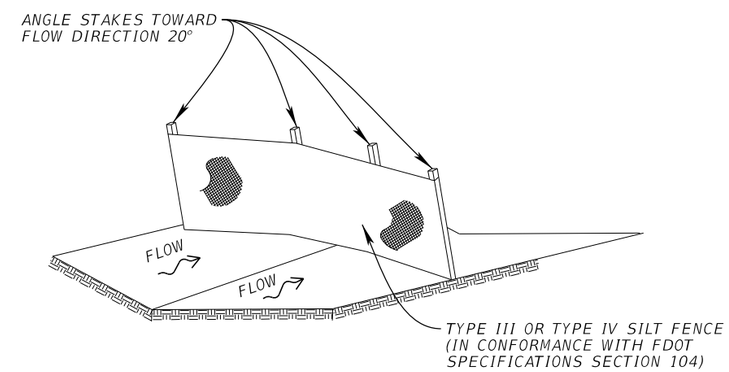
INLET PROTECTION



DITCH BOTTOM INLET PROTECTION



TYPE III SILT FENCE DETAIL



SILT FENCE CHECK DAM

No.	REVISIONS	DATE	BY

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9TH AVENUE NW

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FL LICENSE NUMBER 76102
DATE:

EROSION CONTROL DETAIL SHEET

SHEET NUMBER
149

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

Date:	12/14 -12/16/2021	**Test Hole Data Report**	**Crew Members:** BH,PK,DS,HG
ECHO Project #:	21-137	4803 George Road, Ste. 350 Tampa, Florida 33634 400 SR 434, Ste. 1024 Oviedo, Florida 32765	**City, State:** Bradenton, FL
Financial Project #:	20-TA003483CD	ECHO UTILITY ENGINEERING & SURVEY	**General Location:** 9th Avenue
Truck No.:	VT-1	ECHO UES, Inc. www.echoues.com 888.778.ECHO - GROW. INSPIRE. MAKE A DIFFERENCE-	**Coordinate Unit of Measure:** US Survey Feet

Utility Type		Utility Material		Identified By:	Abbreviations	Offset Measured From:
BE = Buried Electrical	RCW = Reclaimed Water	AC = Transite	GALV = Galvanized Pipe	HUB = Survey Hub	N/A = Not Applicable	EP= Edge of Pavement
GM = Gas Main	TS = Traffic Signal	CI= Cast Iron	HDPE = High Density Polyethylene Pipe	IRC = Iron Rod & Cap "ECHO TEST HOLE"	NAD = North American Datum	BC = Back of Curb
BT = Buried Telephone	SL = Street Light	CP = Concrete Pipe	PE = Polyethylene Pipe	NL = Nail & Disk "ECHO TEST HOLE"		BL = Baseline of Survey
FOC = Fiber Optic Cable	IRR = Irrigation Line	DBC = Direct Buried Cable	PVC = Polyvinyl Chloride	SLEEVE = Sleeve	NAVD = North American Vertical Datum	COORD = Survey Coordinates
WM = Water Main	GS = Gas Service	CMP = Corrugated Metal Pipe	STL = Steel	X = "X" in Concrete		CL = Centerline
SAN = Sanitary Sewer	WS = Water Service	CONC = Concrete	VCP = Vitrified Clay Pipe	**Surface Type**	UNK = Unknown	HUB = Survey Hub
STM = Storm Sewer	UNK = Unknown Utility	CPP = Corrugated Plastic Pipe	PCCP = Prestressed Cylinder Concrete Pipe	ASPH = Asphalt		RW = Right of Way
CATV = Cable Television	BED = Buried Electrical Duct	DCT = Duct		CONC = Concrete		ST = Swing Ties
FM = Force Main	BTD = Buried Telephone Duct	DIP = Ductile Iron Pipe	RCP = Reinforced Concrete Pipe	NG = Natural Ground		X = "X" in Concrete

Datums: Horizontal: NAD83/11 — Vertical: NAVD88

Test Hole	Utility Type	Utility Material	Utility Size Outside Diameter inches	Utility Manual Depth feet	Cross Sectional View	Utility Direction (N)	Identified By	Surface Type	Surface Thickness inches	Apparent Utility Owner	Station	Offset	BL	Ground Elevation	Utility Elevation
1-1	RCW	PVC	6"	1.18'	○	↕	IRC	NG	N/A	MANATEE COUNTY	40+71.09	27.89' LT	9THAVE	4.85'	3.67'
2-1	FM	HDPE	6"	2.42'	○	↔	IRC	NG	N/A	MANATEE COUNTY	40+91.80	13.62' RT	9THAVE	4.63'	2.21'
3-1	WM	PVC	6"	8.32'	○	↕	NL	ASPH	4"	MANATEE COUNTY	41+43.83	29.28' LT	9THAVE	4.92'	-3.40'
4-1	RCW	PVC	2"	1.32'	○	↕	IRC	NG	N/A	MANATEE COUNTY	41+75.53	30.37' LT	9THAVE	5.07'	3.75'
5-1	GM	PE	2"	3.98'	○	↔	IRC	NG	N/A	TECO	41+90.00	19.02' RT	9THAVE	5.06'	1.08'
6-1	WM	PVC	8"	3.66'	○	↔	NL	ASPH	4"	MANATEE COUNTY	41+92.33	4.26' LT	9THAVE	5.61'	1.95'
8-1	WM	PVC	8"	3.90'	○	↔	NL	ASPH	4"	MANATEE COUNTY	54+16.48	8.16' LT	9THAVE	14.21'	10.31'
9-1	GM	PE	2"	6.00'	○	↔	IRC	NG	N/A	TECO	54+19.29	21.24' RT	9THAVE	14.11'	8.11'
10-1	GM	PE	2"	5.78'	○	↔	IRC	NG	N/A	TECO	55+22.48	21.75' RT	9THAVE	14.37'	8.59'
11-1	FM	AC	8"	3.66'	○	↔	NL	ASPH	6"	MANATEE COUNTY	55+19.97	10.72' RT	9THAVE	14.67'	11.01'

Notes:
TH# 3-1 - POSSIBLE 6" PVC; UNABLE TO VISUALLY VERIFY SIZE AND MATERIAL DUE TO WATER AND CAVE-IN

TH# 9-1 - POSSIBLE 2" PE; UNABLE TO VISUALLY VERIFY SIZE AND MATERIAL DUE TO WATER AND CAVE-IN

TH# 10-1 - POSSIBLE 2" PE; UNABLE TO VISUALLY VERIFY SIZE AND MATERIAL DUE TO WATER AND CAVE-IN

Prepared by: CM ***Date: 01/31/2022***

Checked by: MA ***Date: 02/02/2022***

No.	REVISIONS	DATE	BY

Kimley»Horn

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KHA PROJECT 148400070
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Manatee County FLORIDA

9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

SUE INFORMATION SHEET (1)

SHEET NUMBER 150

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

Date:	12/14 -12/16/2021	**Test Hole Data Report**	**Crew Members:** BH,PK,DS,HG
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Financial Project #:	20-TA003483CD	ECHO UTILITY ENGINEERING & SURVEY	**General Location:** 9th Avenue
Truck No.:	VT-1	ECHO UES, Inc. www.echoues.com 888.778.ECHO - GROW. INSPIRE. MAKE A DIFFERENCE-	**Coordinate Unit of Measure:** US Survey Feet

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Test Hole	Utility Type	Utility Material	Utility Size Outside Diameter inches	Utility Manual Depth feet	Cross Sectional View	Utility Direction (N)	Identified By	Surface Type	Surface Thickness inches	Apparent Utility Owner	Datums: Station	Horizontal: NAD83/11 Vertical: NAVD88 Offset	BL	Ground Elevation	Utility Elevation
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13-1	WM	PVC	8"	3.00'		↕	IRC	NG	N/A	MANATEE COUNTY	55+64.99	73.95' LT	9THAVE	15.09'	12.09'
14-1	FM	HDPE	4"	4.42'		↔	IRC	NG	N/A	MANATEE COUNTY	55+70.99	42.51' LT	9THAVE	15.19'	10.77'
16-1	FM	HDPE	2"	4.30'		↗↙	NL	ASPH	4"	MANATEE COUNTY	55+86.73	28.45' LT	9THAVE	14.85'	10.55'
17-1	GM	PE	2"	2.00'		↔	IRC	NG	N/A	TECO	55+82.20	24.69' RT	9THAVE	15.39'	13.39'
18-1	WM	PVC	8"	4.32'		↔	NL	ASPH	4"	MANATEE COUNTY	55+92.12	5.39' LT	9THAVE	15.62'	11.30'
19-1	RCW	DIP	12"	3.18'		↔	NL	ASPH	4"	MANATEE COUNTY	56+58.73	8.74' LT	9THAVE	16.44'	13.26'
20-1	RCW	DIP	12"	4.40'		↘↖	NL	ASPH	4"	MANATEE COUNTY	72+88.67	25.27' LT	9THAVE	14.32'	9.92'
20-2	UNK	PVC	4"	3.18'		↗↙	NL	ASPH	4"	UNKNOWN	72+88.68	24.93' LT	9THAVE	14.34'	11.16'
22-1	RCW	HDPE	6"	3.94'		↕	X	NG	N/A	MANATEE COUNTY	73+51.14	39.80' LT	9THAVE	13.75'	9.81'

Notes: TH# 14-1 - POSSIBLE 4" HDPE; UNABLE TO VISUALLY VERIFY SIZE AND MATERIAL DUE TO WATER AND CAVE-IN

TH# 20-2 - POSSIBLE WM; UNABLE TO VISUALLY VERIFY SIZE AND MATERIAL DUE TO WATER AND CAVE-IN

Prepared by: CM ***Date: 01/31/2022***

Checked by: MA ***Date: 02/02/2022***

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No.	REVISIONS	DATE	BY

Kimley»Horn

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KHA PROJECT 148400070
DATE 10/02/2025
SCALE AS SHOWN
DESIGNED BY
DRAWN BY
CHECKED BY

Manatee County FLORIDA

9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

SUE INFORMATION SHEET (2)

SHEET NUMBER 151

Susan.Pluta 10/1/2025 5:38:29 PM Default K:\SAR_Roadway\148400070_9thAve\148400070\utils\UTEXRD_ECHO01.dgn

Date:	12/14 -12/16/2021	**Test Hole Data Report**	**Crew Members:** BH,PK,DS,HG
ECHO Project #:	21-137	4803 George Road, Ste. 350 Tampa, Florida 33634 400 SR 434, Ste. 1024 Oviedo, Florida 32765	**City, State:** Bradenton, FL
Financial Project #:	20-TA003483CD	ECHO UTILITY ENGINEERING & SURVEY	**General Location:** 9th Avenue
Truck No.:	VT-1	ECHO UES, Inc. www.echoues.com 888.778.ECHO - GROW. INSPIRE. MAKE A DIFFERENCE-	**Coordinate Unit of Measure:** US Survey Feet

Utility Type		Utility Material		Identified By:	Abbreviations	Offset Measured From:
BE = Buried Electrical	RCW = Reclaimed Water	AC = Transite	GALV = Galvanized Pipe	HUB = Survey Hub	N/A = Not Applicable	EP= Edge of Pavement
GM = Gas Main	TS = Traffic Signal	CI= Cast Iron	HDPE = High Density Polyethylene Pipe	IRC = Iron Rod & Cap "ECHO TEST HOLE"	NAD = North American Datum	BC = Back of Curb
BT = Buried Telephone	SL = Street Light	CP = Concrete Pipe	PE = Polyethylene Pipe	NL = Nail & Disk "ECHO TEST HOLE"		BL = Baseline of Survey
FOC = Fiber Optic Cable	IRR = Irrigation Line	DBC = Direct Buried Cable	PVC = Polyvinyl Chloride	SLEEVE = Sleeve	NAVD = North American Vertical Datum	COORD = Survey Coordinates
WM = Water Main	GS = Gas Service	CMP = Corrugated Metal Pipe	STL = Steel	X = "X" in Concrete		CL = Centerline
SAN = Sanitary Sewer	WS = Water Service	CONC = Concrete	VCP = Vitrified Clay Pipe	**Surface Type**	UNK = Unknown	HUB = Survey Hub
STM = Storm Sewer	UNK = Unknown Utility	CPP = Corrugated Plastic Pipe	PCCP = Prestressed Cylinder Concrete Pipe	ASPH = Asphalt		RW = Right of Way
CATV = Cable Television	BED = Buried Electrical Duct	DCT = Duct		CONC = Concrete		ST = Swing Ties
FM = Force Main	BTD = Buried Telephone Duct	DIP = Ductile Iron Pipe	RCP = Reinforced Concrete Pipe	NG = Natural Ground		X = "X" in Concrete

Test Hole	Utility Type	Utility Material	Utility Size Outside Diameter inches	Utility Manual Depth feet	Cross Sectional View	Utility Direction (N)	Identified By	Surface Type	Surface Thickness inches	Apparent Utility Owner	Datums: Station	Horizontal: NAD83/11 Vertical: NAVD88 Offset	BL	Ground Elevation	Utility Elevation
23-1	GM	PE	2"	5.60'	○	↔	X	CONC	6"	TECO	73+58.11	20.32' RT	9THAVE	12.95'	7.35'
23-2	WM	PVC	8"	2.20'	◯	↕	X	CONC	6"	MANATEE COUNTY	73+56.98	19.13' RT	9THAVE	12.96'	10.76'
24-1	RCW	DIP	12"	4.20'	◯	↔	NL	ASPH	4"	MANATEE COUNTY	73+72.64	15.99' LT	9THAVE	12.98'	8.78'
26-1	WM	PVC	8"	3.70'	◯	↔	NL	ASPH	3"	MANATEE COUNTY	74+99.33	5.52' RT	9THAVE	11.17'	7.47'
27-1	GM	PE	2"	6.48'	○	↔	IRC	NG	N/A	TECO	74+97.33	21.69' RT	9THAVE	10.84'	4.36'
30-1	FM	PVC	8"	4.18'	◯	↕	IRC	NG	N/A	MANATEE COUNTY	84+73.89	23.57' RT	9THAVE	4.41'	0.23'
32-1	FM	PVC	8"	3.46'	◯	↔	NL	ASPH	6"	MANATEE COUNTY	86+98.28	8.15' RT	9THAVE	5.14'	1.68'

Notes:

TH# 23-1 - POSSIBLE 2" PE; UNABLE TO VISUALLY VERIFY SIZE AND MATERIAL DUE TO WATER AND CAVE-IN

TH# 24-1 - POSSIBLE 12" DIP; UNABLE TO VISUALLY VERIFY SIZE AND MATERIAL DUE TO WATER AND CAVE-IN

TH# 26-1 - POSSIBLE 8" PVC; UNABLE TO VISUALLY VERIFY SIZE AND MATERIAL DUE TO WATER AND CAVE-IN

TH# 27-1 - POSSIBLE 2" PE; UNABLE TO VISUALLY VERIFY SIZE AND MATERIAL DUE TO WATER AND CAVE-IN

Prepared by: CM ***Date: 01/31/2022***

Checked by: MA ***Date: 02/02/2022***

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

No.	REVISIONS	DATE	BY

Kimley»Horn

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WWW.KIMLEY-HORN.COM

KHA PROJECT 148400070
DATE 10/02/2025
SCALE AS SHOWN
DESIGNED BY
DRAWN BY
CHECKED BY

Manatee County FLORIDA

9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

SUE INFORMATION SHEET (3)

SHEET NUMBER 152

Date:	12/14 - 12/30/2022	**Test Hole Data Report**	**Crew Members:** HG,JB,JA,JR,PW,MG,LF,NK,MS
ECHO Project #:	21-137	4803 George Road, Ste. 350 Tampa, Florida 33634 400 SR 434, Ste. 1024 Oviedo, Florida 32765	**City, State:** Bradenton, FL
Financial Project #:	20-TA003483CD	ECHO UTILITY ENGINEERING & SURVEY	**General Location:** 9th Avenue
Truck No.:	VT-1	**ECHO UES, Inc.** **www.echoues.com** **888.778.ECHO** - GROW. INSPIRE. MAKE A DIFFERENCE-	**Coordinate Unit of Measure:** US Survey Feet

Utility Type		Utility Material		Identified By:	Abbreviations	Offset Measured From:
BE = Buried Electrical	RCW = Reclaimed Water	AC = Transite	GALV = Galvanized Pipe	HUB = Survey Hub	N/A = Not Applicable	EP= Edge of Pavement
GM = Gas Main	TS = Traffic Signal	CI= Cast Iron	HDPE = High Density Polyethylene Pipe	IRC = Iron Rod & Cap "ECHO TEST HOLE"	NAD = North American Datum	BC = Back of Curb
BT = Buried Telephone	SL = Street Light	CP = Concrete Pipe	PE = Polyethylene Pipe	NL = Nail & Disk "ECHO TEST HOLE"		BL = Baseline of Survey
FOC = Fiber Optic Cable	IRR = Irrigation Line	DBC = Direct Buried Cable	PVC = Polyvinyl Chloride	SLEEVE = Sleeve	NAVD = North American Vertical Datum	COORD = Survey Coordinates
WM = Water Main	GS = Gas Service	CMP = Corrugated Metal Pipe	STL = Steel	X = "X" in Concrete		CL = Centerline
SAN = Sanitary Sewer	WS = Water Service	CONC = Concrete	VCP = Vitrified Clay Pipe	**Surface Type**	UNK = Unknown	HUB = Survey Hub
STM = Storm Sewer	UNK = Unknown Utility	CPP = Corrugated Plastic Pipe	PCCP = Prestressed Cylinder Concrete Pipe	ASPH = Asphalt		RW = Right of Way
CATV = Cable Television	BED = Buried Electrical Duct	DCT = Duct		CONC = Concrete		ST = Swing Ties
FM = Force Main	BTD = Buried Telephone Duct	DIP = Ductile Iron Pipe	RCP = Reinforced Concrete Pipe	NG = Natural Ground		X = "X" in Concrete

Test Hole	Utility Type	Utility Material	Utility Size Outside Diameter inches	Utility Manual Depth feet	Cross Sectional View	Utility Direction (N)	Identified By	Surface Type	Surface Thickness inches	Apparent Utility Owner	Datums: Station	Horizontal: NAD83/11 Vertical: NAVD88 Offset	BL	Ground Elevation	Utility Elevation
1-1A	RCW	PVC	6"	3.50'			IRC	NG	4"	MANATEE COUNTY	16+85.48	23.10' RT	9THAVE	3.99'	0.49'
1-2	WM	PVC	6"	3.55'			NL	ASPH	4"	MANATEE COUNTY	16+88.24	21.31' RT	9THAVE	3.76'	0.21'
1-3	FM	HDPE	6"	3.00'			NL	NG	4"	MANATEE COUNTY	17+15.19	24.66' RT	9THAVE	3.22'	0.22'
1-4	FM	AC	8"	2.78'			NL	ASPH	4"	MANATEE COUNTY	17+23.12	11.67' RT	9THAVE	3.43'	0.65'
1-4A	GM	PE	2"	5.40'			X	NG	4"	TECO	17+29.61	21.52' RT	9THAVE	2.72'	-2.68'
1-5	WM	DIP	8"	5.42'			NL	ASPH	4"	MANATEE COUNTY	17+22.17	2.83' LT	9THAVE	3.69'	-1.73'
1-6	RCW	DIP	12"	4.80'			NL	ASPH	4"	MANATEE COUNTY	17+22.35	8.22' LT	9THAVE	3.66'	-1.14'
1-7	GM	PE	2"	5.80'			IRC	NG	N/A	TECO	23+08.38	18.35' RT	9THAVE	3.00'	-2.80'
1-8	WS	PE	1"	2.10'			IRC	NG	N/A	MANATEE COUNTY	30+43.32	16.48' LT	9THAVE	4.12'	2.02'
1-10	WM	PE	1.5"	7.00'			IRC	NG	N/A	MANATEE COUNTY	35+52.69	15.32' LT	9THAVE	2.81'	-4.19'

Notes:

Prepared by: EU/CM ***Date: 12/23/2022***

Checked by: MA ***Date: 01/03/2023***

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No.	REVISIONS	DATE	BY

Kimley»Horn

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WWW.KIMLEY-HORN.COM

KHA PROJECT 148400070
DATE 10/02/2025
SCALE AS SHOWN
DESIGNED BY
DRAWN BY
CHECKED BY

Manatee County FLORIDA

9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

SUE INFORMATION SHEET (4)

SHEET NUMBER 153

Susan.Pluta 10/1/2025 5:38:40 PM Default K:\SAR_Roadway\148400070_9thAve\148400070\utils\UTEXRD_ECHO01.dgn

Date:	12/14 - 12/30/2022	**Test Hole Data Report**	**Crew Members:** HG,JB,JA,JR,PW,MG,LF,NK,MS
ECHO Project #:	21-137	4803 George Road, Ste. 350 Tampa, Florida 33634 400 SR 434, Ste. 1024 Oviedo, Florida 32765	**City, State:** Bradenton, FL
Financial Project #:	20-TA003483CD	ECHO UTILITY ENGINEERING & SURVEY	**General Location:** 9th Avenue
Truck No.:	VT-1	**ECHO UES, Inc.** **www.echoues.com** **888.778.ECHO** - GROW. INSPIRE. MAKE A DIFFERENCE-	**Coordinate Unit of Measure:** US Survey Feet

Utility Type		Utility Material		Identified By:	Abbreviations	Offset Measured From:
BE = Buried Electrical	RCW = Reclaimed Water	AC = Transite	GALV = Galvanized Pipe	HUB = Survey Hub	N/A = Not Applicable	EP= Edge of Pavement
GM = Gas Main	TS = Traffic Signal	CI= Cast Iron	HDPE = High Density Polyethylene Pipe	IRC = Iron Rod & Cap "ECHO TEST HOLE"	NAD = North American Datum	BC = Back of Curb
BT = Buried Telephone	SL = Street Light	CP = Concrete Pipe	PE = Polyethylene Pipe	NL = Nail & Disk "ECHO TEST HOLE"		BL = Baseline of Survey
FOC = Fiber Optic Cable	IRR = Irrigation Line	DBC = Direct Buried Cable	PVC = Polyvinyl Chloride	SLEEVE = Sleeve	NAVD = North American Vertical Datum	COORD = Survey Coordinates
WM = Water Main	GS = Gas Service	CMP = Corrugated Metal Pipe	STL = Steel	X = "X" in Concrete		CL = Centerline
SAN = Sanitary Sewer	WS = Water Service	CONC = Concrete	VCP = Vitrified Clay Pipe	**Surface Type**	UNK = Unknown	HUB = Survey Hub
STM = Storm Sewer	UNK = Unknown Utility	CPP = Corrugated Plastic Pipe	PCCP = Prestressed Cylinder Concrete Pipe	ASPH = Asphalt		RW = Right of Way
CATV = Cable Television	BED = Buried Electrical Duct	DCT = Duct		CONC = Concrete		ST = Swing Ties
FM = Force Main	BTD = Buried Telephone Duct	DIP = Ductile Iron Pipe	RCP = Reinforced Concrete Pipe	NG = Natural Ground		X = "X" in Concrete

Test Hole	Utility Type	Utility Material	Utility Size Outside Diameter inches	Utility Manual Depth feet	Cross Sectional View	Utility Direction (N)	Identified By	Surface Type	Surface Thickness inches	Apparent Utility Owner	Datums: Station	Horizontal: NAD83/11 Vertical: NAVD88 Offset	BL	Ground Elevation	Utility Elevation
1-10A	WM	PE	1.5"	3.64'	○	↔	IRC	NG	4"	MANATEE COUNTY	35+27.23	15.23' LT	9THAVE	3.08'	-0.56'
1-11	RCW	PE	12"	3.10'	◯	↔	IRC	NG	N/A	MANATEE COUNTY	36+79.85	9.48' LT	9THAVE	3.33'	0.23'
1-12	WM	PVC	8"	3.44'	◯	↔	NL	ASPH	12"	MANATEE COUNTY	36+77.91	3.51' LT	9THAVE	3.51'	0.07'
1-13	GM	PE	2"	2.10'	○	↔	IRC	NG	N/A	TECO	36+83.03	17.15' RT	9THAVE	1.85'	-0.25'
1-14	FM	CI	8"	1.64'	◯	↔	IRC	NG	N/A	MANATEE COUNTY	36+80.98	9.57' RT	9THAVE	2.98'	1.34'
1-15	RCW	DIP	10"	3.50'	◯	↔	IRC	NG	4"	MANATEE COUNTY	46+00.17	9.10' LT	9THAVE	8.88'	5.38'
1-16	WM	PVC	8"	3.50'	◯	↔	IRC	NG	4"	MANATEE COUNTY	45+98.81	3.32' LT	9THAVE	8.78'	5.28'
1-17	GM	PE	2"	5.22'	○	↔	IRC	NG	4"	TECO	45+98.76	20.23' RT	9THAVE	8.23'	3.01'
1-17A	FM	HDPE	8"	2.64'	◯	↔	IRC	NG	4"	MANATEE COUNTY	45+99.62	14.23' RT	9THAVE	8.40'	5.76'
1-17B	WM	AC	8"	2.82'	◯	↔	IRC	NG	4"	MANATEE COUNTY	46+00.18	11.36' RT	9THAVE	8.26'	5.44'

Notes: TH # 1-10A - POSSIBLE 1.5" PE; UNABLE TO VISUALLY VERIFY SIZE AND MATERIAL DUE TO WATER AND CAVE-IN

Prepared by: EU/CM ***Date: 01/03/2023***

Checked by: MA ***Date: 01/03/2023***

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No.	REVISIONS	DATE	BY

Kimley»Horn

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KHA PROJECT 148400070
DATE 10/02/2025
SCALE AS SHOWN
DESIGNED BY
DRAWN BY
CHECKED BY

Manatee County FLORIDA

9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

SUE INFORMATION SHEET (5)

SHEET NUMBER 154

Susan.Pluta 10/1/2025 5:38:46 PM Default K:\SAR_Roadway\148400070_9thAve\148400070\utils\UTEXRD_ECHO01.dgn

Date:	12/14 - 12/30/2022	**Test Hole Data Report**	**Crew Members:** HG,JB,JA,JR,PW,MG,LF,NK,MS
ECHO Project #:	21-137	4803 George Road, Ste. 350 Tampa, Florida 33634 400 SR 434, Ste. 1024 Oviedo, Florida 32765	**City, State:** Bradenton, FL
Financial Project #:	20-TA003483CD	ECHO UTILITY ENGINEERING & SURVEY	**General Location:** 9th Avenue
Truck No.:	VT-1	**ECHO UES, Inc.** **www.echoues.com** **888.778.ECHO** - GROW. INSPIRE. MAKE A DIFFERENCE-	**Coordinate Unit of Measure:** US Survey Feet

Utility Type		Utility Material		Identified By:	Abbreviations	Offset Measured From:
BE = Buried Electrical	RCW = Reclaimed Water	AC = Transite	GALV = Galvanized Pipe	HUB = Survey Hub	N/A = Not Applicable	EP= Edge of Pavement
GM = Gas Main	TS = Traffic Signal	CI= Cast Iron	HDPE = High Density Polyethylene Pipe	IRC = Iron Rod & Cap "ECHO TEST HOLE"	NAD = North American Datum	BC = Back of Curb
BT = Buried Telephone	SL = Street Light	CP = Concrete Pipe	PE = Polyethylene Pipe	NL = Nail & Disk "ECHO TEST HOLE"		BL = Baseline of Survey
FOC = Fiber Optic Cable	IRR = Irrigation Line	DBC = Direct Buried Cable	PVC = Polyvinyl Chloride	SLEEVE = Sleeve	NAVD = North American Vertical Datum	COORD = Survey Coordinates
WM = Water Main	GS = Gas Service	CMP = Corrugated Metal Pipe	STL = Steel	X = "X" in Concrete		CL = Centerline
SAN = Sanitary Sewer	WS = Water Service	CONC = Concrete	VCP = Vitrified Clay Pipe	**Surface Type**	UNK = Unknown	HUB = Survey Hub
STM = Storm Sewer	UNK = Unknown Utility	CPP = Corrugated Plastic Pipe	PCCP = Prestressed Cylinder Concrete Pipe	ASPH = Asphalt		RW = Right of Way
CATV = Cable Television	BED = Buried Electrical Duct	DCT = Duct		CONC = Concrete		ST = Swing Ties
FM = Force Main	BTD = Buried Telephone Duct	DIP = Ductile Iron Pipe	RCP = Reinforced Concrete Pipe	NG = Natural Ground		X = "X" in Concrete

Horizontal: NAD83/11
Vertical: NAVD88

Test Hole	Utility Type	Utility Material	Utility Size Outside Diameter inches	Utility Manual Depth feet	Cross Sectional View	Utility Direction	Identified By	Surface Type	Surface Thickness inches	Apparent Utility Owner	Datums: Station	Offset	BL	Ground Elevation	Utility Elevation
1-18	RCW	DIP	12"	3.28'			IRC	NG	4"	MANATEE COUNTY	47+95.53	8.63' LT	9THAVE	10.90'	7.62'
1-19	WM	PVC	8"	2.94'			IRC	NG	4"	MANATEE COUNTY	47+95.83	2.25' LT	9THAVE	11.08'	8.14'
1-20	GM	PE	2"	5.96'			IRC	NG	4"	TECO	47+95.39	21.41' RT	9THAVE	10.88'	4.92'
1-20A	FM	HDPE	8"	3.18'			IRC	NG	4"	MANATEE COUNTY	47+96.16	16.61' RT	9THAVE	11.10'	7.92'
1-20B	WM	AC	8"	3.60'			IRC	NG	4"	MANATEE COUNTY	47+96.39	13.48' RT	9THAVE	10.90'	7.30'
1-21	WS	PE	1"	0.60'			IRC	NG	N/A	MANATEE COUNTY	49+74.07	26.27' LT	9THAVE	12.61'	12.01'
1-22	GM	PE	2"	2.86'			IRC	NG	N/A	TECO	50+72.53	23.15' LT	9THAVE	14.02'	11.16'
1-23	RCW	DIP	12"	3.02'			IRC	ASPH	8"	MANATEE COUNTY	50+91.51	6.86' LT	9THAVE	13.77'	10.75'
1-24	WM	PVC	8"	3.18'			NL	ASPH	8"	MANATEE COUNTY	50+91.69	1.96' LT	9THAVE	13.83'	10.65'
1-25	GM	PE	2"	2.30'			IRC	NG	N/A	TECO	51+11.74	16.34' RT	9THAVE	13.55'	11.25'

Notes:

Prepared by: EU/CM ***Date: 01/03/2023***

Checked by: MA ***Date: 01/03/2023***

No.	REVISIONS	DATE	BY

Kimley»Horn

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KHA PROJECT 148400070
DATE 10/02/2025
SCALE AS SHOWN
DESIGNED BY
DRAWN BY
CHECKED BY

Manatee County FLORIDA

9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

SUE INFORMATION SHEET (6)

SHEET NUMBER
155

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

Date:	12/14 - 12/30/2022	**Test Hole Data Report**	**Crew Members:** HG,JB,JA,JR,PW,MG,LF,NK,MS
ECHO Project #:	21-137	4803 George Road, Ste. 350 Tampa, Florida 33634 400 SR 434, Ste. 1024 Oviedo, Florida 32765	**City, State:** Bradenton, FL
Financial Project #:	20-TA003483CD	ECHO UTILITY ENGINEERING & SURVEY	**General Location:** 9th Avenue
Truck No.:	VT-1	**ECHO UES, Inc.** **www.echoues.com** **888.778.ECHO** - GROW. INSPIRE. MAKE A DIFFERENCE-	**Coordinate Unit of Measure:** US Survey Feet

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BT = Buried Telephone	SL = Street Light	CP = Concrete Pipe	PE = Polyethylene Pipe	NL = Nail & Disk "ECHO TEST HOLE"		BL = Baseline of Survey
FOC = Fiber Optic Cable	IRR = Irrigation Line	DBC = Direct Buried Cable	PVC = Polyvinyl Chloride	SLEEVE = Sleeve	NAVD = North American Vertical Datum	COORD = Survey Coordinates
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SAN = Sanitary Sewer	WS = Water Service	CONC = Concrete	VCP = Vitrified Clay Pipe	**Surface Type**	UNK = Unknown	HUB = Survey Hub
STM = Storm Sewer	UNK = Unknown Utility	CPP = Corrugated Plastic Pipe	PCCP = Prestressed Cylinder Concrete Pipe	ASPH = Asphalt		RW = Right of Way
CATV = Cable Television	BED = Buried Electrical Duct	DCT = Duct		CONC = Concrete		ST = Swing Ties
FM = Force Main	BTD = Buried Telephone Duct	DIP = Ductile Iron Pipe	RCP = Reinforced Concrete Pipe	NG = Natural Ground		X = "X" in Concrete

Test Hole	Utility Type	Utility Material	Utility Size Outside Diameter inches	Utility Manual Depth feet	Cross Sectional View	Utility Direction (N)	Identified By	Surface Type	Surface Thickness inches	Apparent Utility Owner	Datums: Station	Horizontal: NAD83/11 Vertical: NAVD88 Offset	BL	Ground Elevation	Utility Elevation
1-25A	FM	HDPE	6"	1.62'			IRC	NG	4"	MANATEE COUNTY	51+11.12	14.39' RT	9THAVE	13.48'	11.86'
1-25B	WM	AC	8"	3.10'			IRC	NG	4"	MANATEE COUNTY	51+11.11	12.99' RT	9THAVE	13.42'	10.32'
1-26	FM	PVC	4"	4.36'			IRC	NG	N/A	MANATEE COUNTY	61+10.49	8.56' LT	9THAVE	15.27'	10.91'
1-27	RCW	DIP	12”	4.02'			NL	ASPH	4”	MANATEE COUNTY	61+10.56	4.53' LT	9THAVE	15.36'	11.34'
1-28	WM	PVC	8”	5.20'			IRC	NG	N/A	MANATEE COUNTY	61+09.73	26.30' RT	9THAVE	15.07'	9.87'
1-29	WM	PVC	8”	3.80'			IRC	NG	N/A	MANATEE COUNTY	62+79.69	27.14' RT	9THAVE	14.65'	10.85'
1-29A	GM	PE	2”	4.30'			IRC	NG	N/A	TECO	62+80.19	29.09' RT	9THAVE	14.22'	9.92'

Notes:

Prepared by: EU/CM ***Date: 01/03/2023***

Checked by: MA ***Date: 01/03/2023***

No.	REVISIONS	DATE	BY

Kimley»Horn

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PHONE: 941-379-7600
WWW.KIMLEY-HORN.COM

KHA PROJECT 148400070
DATE 10/02/2025
SCALE AS SHOWN
DESIGNED BY
DRAWN BY
CHECKED BY

Manatee County FLORIDA

9TH AVENUE NW

MANATEE COUNTY FL

LICENSED PROFESSIONAL
JORDAN E. LEEP, P.E.
FL LICENSE NUMBER 76102
DATE:

SUE INFORMATION SHEET (7)

SHEET NUMBER 156

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

Date:	03/08/2024	**Test Hole Data Report**	**Crew Members:** JB,BP
ECHO Project #:	21-137	4803 George Road, Ste. 350 Tampa, Florida 33634 400 SR 434, Ste. 1024 Oviedo, Florida 32765	**City, State:** Bradenton, FL
Financial Project #:	20-TA003483CD	ECHO UTILITY ENGINEERING & SURVEY	**General Location:** 9th Avenue
Truck No.:	VT-1	ECHO UES, Inc. www.echoues.com 888.778.ECHO - GROW. INSPIRE. MAKE A DIFFERENCE-	**Coordinate Unit of Measure:** US Survey Feet

Utility Type		Utility Material		Identified By:	Abbreviations	Offset Measured From:
BE = Buried Electrical	RCW = Reclaimed Water	AC = Transite	GALV = Galvanized Pipe	HUB = Survey Hub	N/A = Not Applicable	EP= Edge of Pavement
GM = Gas Main	TS = Traffic Signal	CI= Cast Iron	HDPE = High Density Polyethylene Pipe	IRC = Iron Rod & Cap "ECHO TEST HOLE"	NAD = North American Datum	BC = Back of Curb
BT = Buried Telephone	SL = Street Light	CP = Concrete Pipe	PE = Polyethylene Pipe	NL = Nail & Disk "ECHO TEST HOLE"		BL = Baseline of Survey
FOC = Fiber Optic Cable	IRR = Irrigation Line	DBC = Direct Buried Cable	PVC = Polyvinyl Chloride	SLEEVE = Sleeve	NAVD = North American Vertical Datum	COORD = Survey Coordinates
WM = Water Main	GS = Gas Service	CMP = Corrugated Metal Pipe	STL = Steel	X = "X" in Concrete		CL = Centerline
SAN = Sanitary Sewer	WS = Water Service	CONC = Concrete	VCP = Vitrified Clay Pipe	**Surface Type**	UNK = Unknown	HUB = Survey Hub
STM = Storm Sewer	UNK = Unknown Utility	CPP = Corrugated Plastic Pipe	PCCP = Prestressed Cylinder Concrete Pipe	ASPH = Asphalt	BL = Baseline	RW = Right of Way
CATV = Cable Television	BED = Buried Electrical Duct	DCT = Duct		CONC = Concrete		ST = Swing Ties
FM = Force Main	BTD = Buried Telephone Duct	DIP = Ductile Iron Pipe	RCP = Reinforced Concrete Pipe	NG = Natural Ground		X = "X" in Concrete

Test Hole	Utility Type	Utility Material	Utility Size Outside Diameter inches	Utility Manual Depth feet	Cross Sectional View	Utility Direction (N)	Identified By	Surface Type	Surface Thickness inches	Apparent Utility Owner	Datums: Station	Horizontal: NAD83/11 Vertical: NAVD88 Offset	BL	Ground Elevation	Utility Elevation
1-1-1	FM	HDPE	6"	5.92'	○	↔	IRC	NG	N/A	MANATEE COUNTY	35+38.04	12.89' RT	9THAVE	3.03'	-2.89'
2-1-1	FM	HDPE	6"	5.80'	○	↔	IRC	NG	N/A	MANATEE COUNTY	35+92.01	13.94' RT	9THAVE	2.63'	-3.17'
3-1-1	FM	HDPE	6"	7.00'	○	↔	IRC	NG	N/A	MANATEE COUNTY	36+29.11	13.98' RT	9THAVE	2.97'	-4.03'
4-1-1	FM	HDPE	6"	6.48'	○	↔	IRC	NG	N/A	MANATEE COUNTY	37+41.61	11.78' RT	9THAVE	3.04'	-3.44'
5-1-1	FM	HDPE	6"	4.90'	○	↔	IRC	NG	N/A	MANATEE COUNTY	38+26.27	13.83' RT	9THAVE	3.06'	-1.84'
6-1-1	WM	PVC	4"	3.62'	○	↕	IRC	NG	N/A	MANATEE COUNTY	52+74.81	438.18' RT	9THAVE	12.76'	9.14'

Notes: TH# 1-1-1 THRU 5-1-1 - POSSIBLE 6" HDPE; UNABLE TO VISUALLY VERIFY SIZE AND MATERIAL DUE TO WATER, DEPTH AND CAVE-IN.

Prepared by: EU/CM ***Date: 03/15/2024***

Checked by: MA ***Date: 03/15/2024***

No.	REVISIONS	DATE	BY

Kimley»Horn

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SUE INFORMATION SHEET (8)

SHEET NUMBER 157

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