

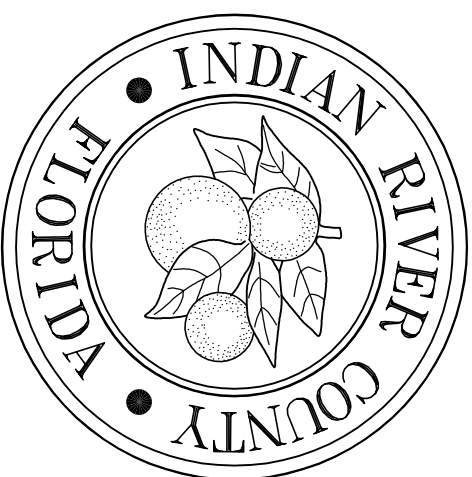
CONTRACT PLANS COMPONENTS:

- ROADWAY PLANS
- SIGNING AND PAVEMENT MARKING PLANS
- SIGNALIZATION PLANS
- LIGHTING PLANS
- LANDSCAPE AND IRRIGATION PLANS
- STRUCTURAL PLANS
- WATER & SEWER PLANS – CITY OF VERO BEACH

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2-4	DRAINAGE MAPS
5-12A	TYPICAL SECTIONS
13-14	QUANTITIES & GENERAL NOTES
15-19	SUMMARY OF DRAINAGE STRUCTURES
20-27D	DETAILS
28	INTERSECTION PLATEAU GRADING
29-43	PLAN SHEETS
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95-99	TRAFFIC CONTROL PLANS

INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS



**STATE ROUTE 60
WIDENING, MILL & RESURFACE
FROM 44TH AVENUE TO 38TH AVENUE
&**

**43RD AVENUE
RECONSTRUCTION
FROM 19TH STREET TO 26TH STREET

BEGIN BRIDGE STATION 129+62.455
END BRIDGE STATION 130+94.455**

LENGTH OF PROJECT

	SR 60	43RD AVE.
MILES	0.476	0.806
FEET	2512	4254
ROADWAY BRIDGES	-	0.033
NET LENGTH OF PROJECT	0.476	0.839
EXCEPTIONS	-	-
GROSS LENGTH OF PROJECT	0.476	0.839
		4428

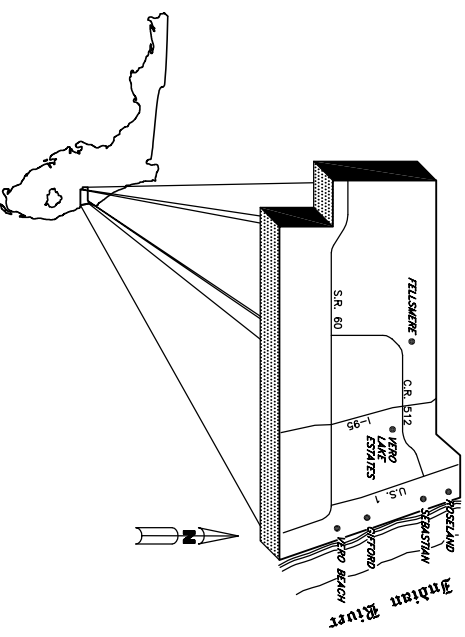
PUBLIC WORKS DIRECTOR:
RICHARD B. SZPYRKA, P.E.

ASSISTANT PUBLIC WORKS DIRECTOR:
JAMES W. ENNIS, P.E.

PROJECT MANAGER:
WILLIAM JOHNSON, P.E.

GOVERNING SPECIFICATIONS:
THE FLORIDA DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION, JULY 2017 EDITION, SUPPLEMENTS THERETO, AND SPECIAL PROVISIONS THERETO IF NOTED IN THE CONTRACT SPECIFICATIONS FOR THIS PROJECT.

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH AND ARE GOVERNED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION, DESIGN STANDARDS (2017-2018 EDITION) AND SUPPLEMENTS THERETO.



ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN ALTERED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

ENGINEER'S CERTIFICATION:
I HEREBY CERTIFY THAT THE ATTACHED PLANS AND DESIGN ARE IN SUBSTANTIAL COMPLIANCE WITH THE DESIGN STANDARDS AND CRITERIA IN EFFECT ON THIS DATE FOR INDIAN RIVER COUNTY ENGINEERING DEPARTMENT AND THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION.

DATE: _____ PROFESSIONAL ENGINEER # 26640

ROBERT W. LAWSON, P.E.

Department of Public Works
Engineering Division

No.	Revision:	By:	Date

Scale: N.T.S.
Approved: HMD
Drawn: FM
Checked: HMD
Date: 6/2017

**STATE ROUTE 60
&
43RD AVENUE**

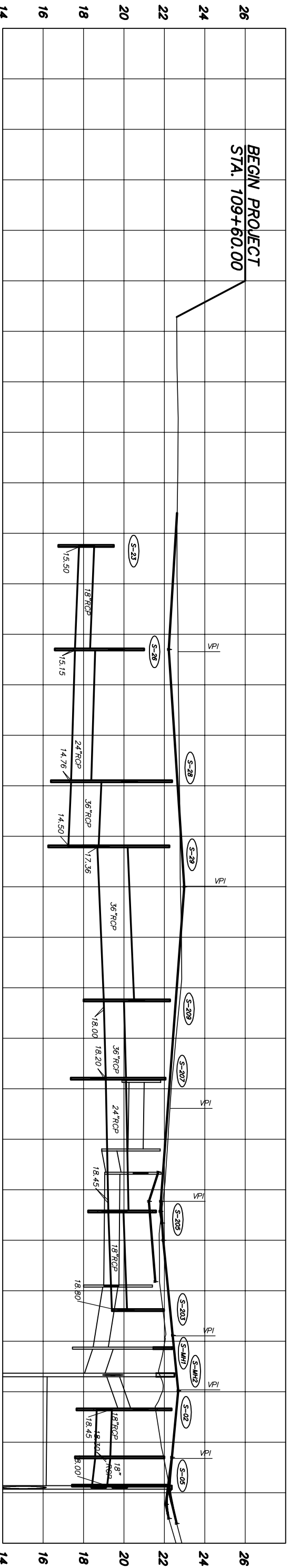
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Of: 99
Project No. LW# W1027

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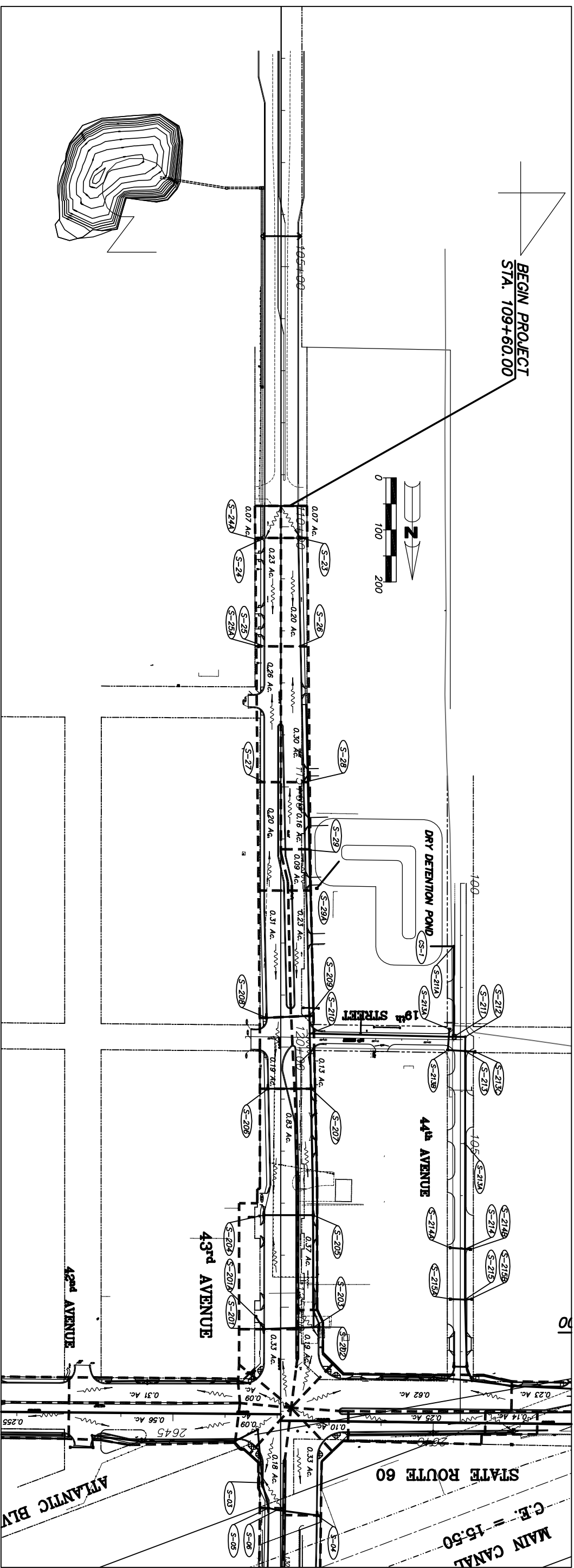
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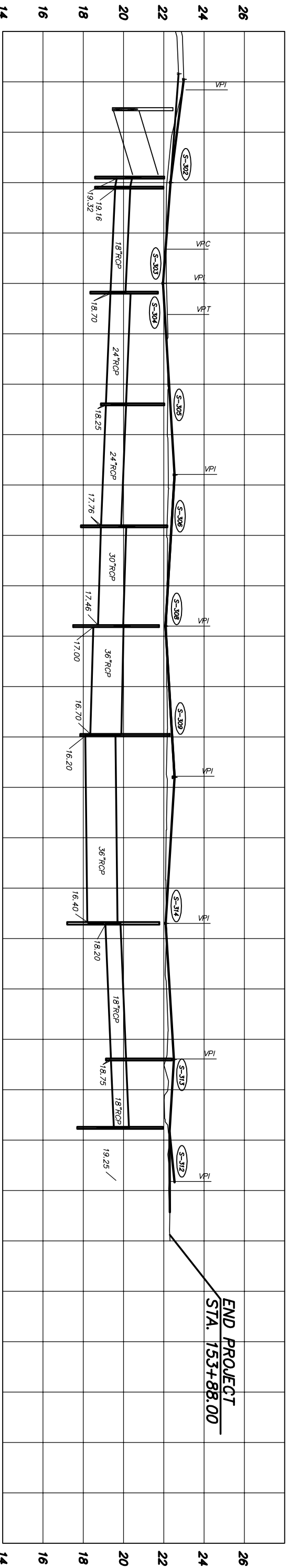
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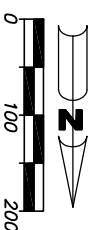
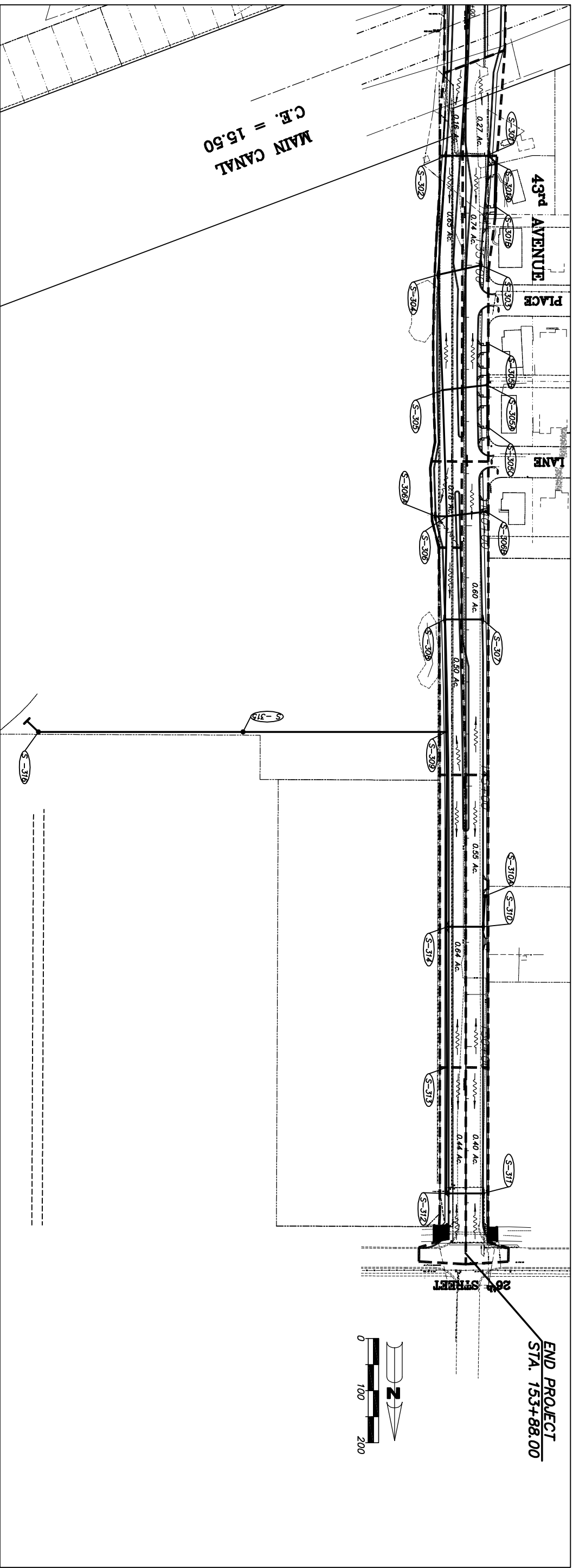
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 Approved: HWD
 Drawn: FM
 Checked: HWD
 Date: 6/2017
 Field Book No.:

Project: DRAINAGE MAP
 FOR SR 60 & 43RD AVENUE

Sheet: 2
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 Project No. LNW# WP1027




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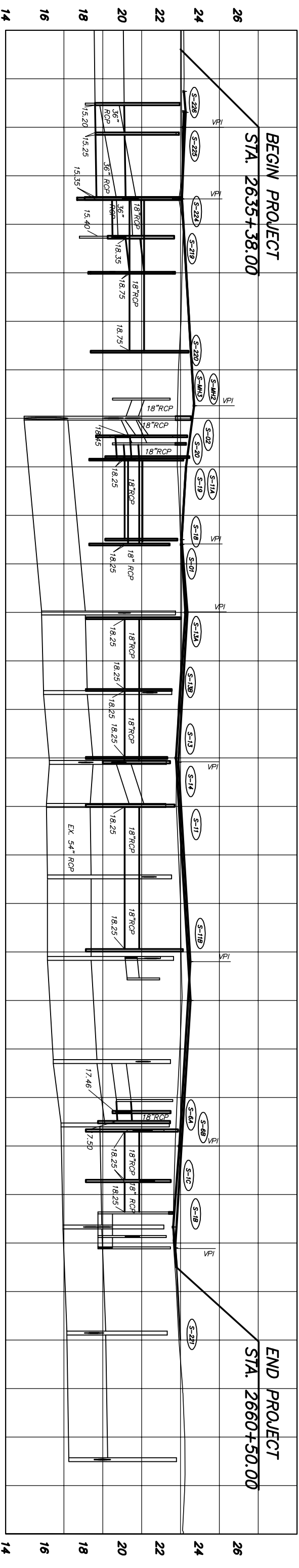
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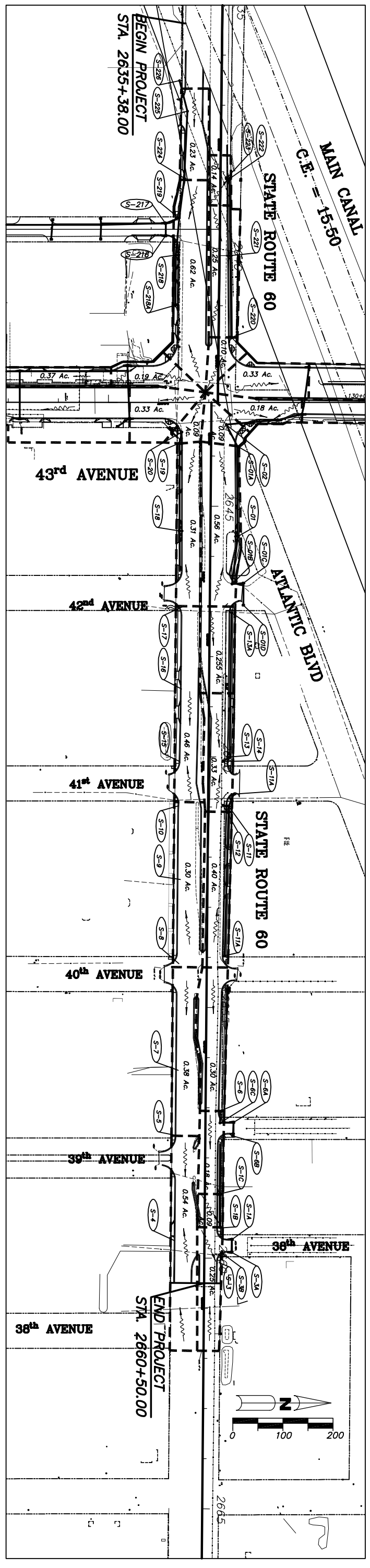
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Project:
 DRAINAGE MAP
 FOR
 SR 60 & 43RD AVENUE

Sheet: 3
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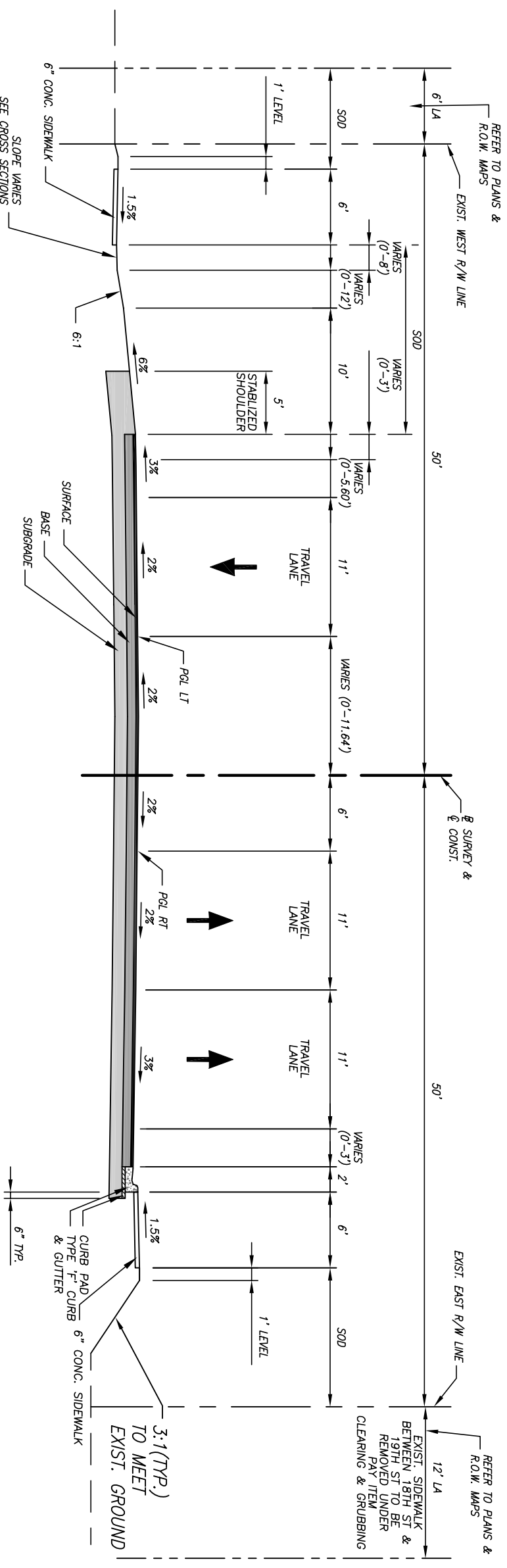


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Scale: 1"=200'
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Project: DRAINAGE MAP
 FOR
SR 60 & 43RD AVENUE

Sheet: 4
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 Project No. LW# WP1027



TYPICAL SECTION NOTES:

1. ALL PAVED AREAS WITHIN THE PROJECT LIMITS WHICH ARE NOT SPECIFICALLY COVERED BY A "TYPICAL SECTION" SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PAVEMENT SPECIFICATIONS INDICATED HEREON, UNLESS OTHERWISE NOTED.
2. WHEN LOCATED ON THE HIGH SIDE OF THE ROADWAY, CURB & GUTTER TYPE "F" SHALL BE MODIFIED IN ACCORDANCE WITH FDOT STANDARD INDEX NO. 300
3. CURB PADS SHALL BE CONSTRUCTED OF 6" BASEROCK OR 3" OF B-12.5 AND SHALL EXTEND A MINIMUM OF 6" BEYOND THE BACK OF CURB. COST OF CURB PAD SHALL BE INCLUDED IN THE PRICE FOR CURB & GUTTER

TYPICAL SECTION
STA. 109+60.00 TO STA. 113+98.70
43RD AVENUE

POSTED SPEED 45 MPH

DESIGN SPEED 45 MPH

NEW CONSTRUCTION	
SURFACE:	1" TYPE FC-9.5 ASPHALTIC CONCRETE SURFACE COURSE (TRAFFIC C) (PG 76-22) W/ POLYMER OVER 1-1/2" TYPE SP-12.5 (TRAFFIC C) ASPHALTIC CONCRETE STRUCTURAL COURSE
BASE:	9" CEMENTED COQUINA SHELL (DOUBLE COURSE) WITH RC-70 PRIME COAT (LBR 100)
SUBGRADE:	12" STABILIZED SUBGRADE TYPE "B" (LBR-40)

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Project:

TYPICAL SECTIONS
FOR
SR 60 & 43RD AVENUE

Sheet:	5
Of:	99
Project No.:	
LWW#	WPI027

TYPICAL SECTION NOTES:

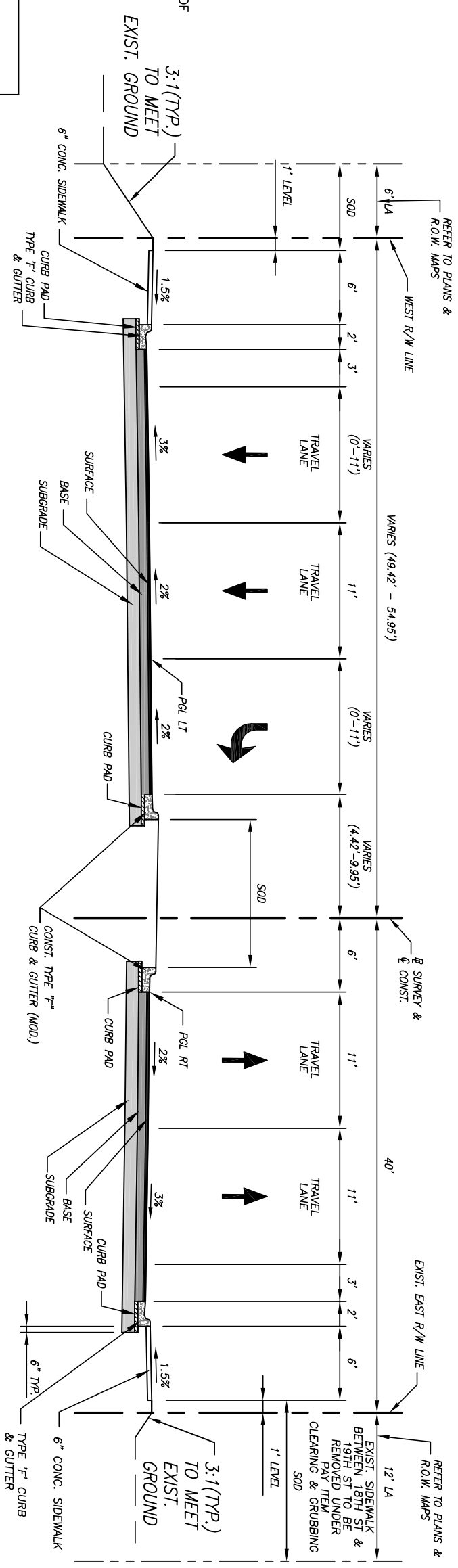
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NEW CONSTRUCTION

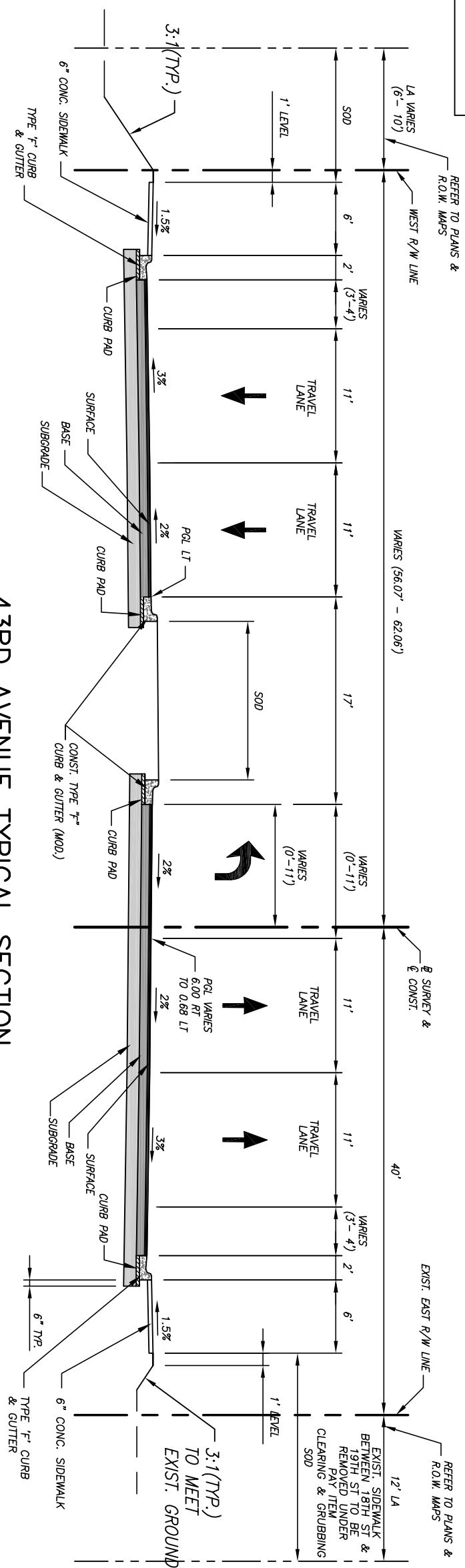
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BASE: 9" GEMENTED COQUINA SHELL (DOUBLE COURSE) WITH RC-70 PRIME COAT (LBR 100)

SUBGRADE: 12" STABILIZED SUBGRADE TYPE "B" (LBR-40)



**43RD AVENUE TYPICAL SECTION
STA. 113+98.70 TO STA. 116+83**



**43RD AVENUE TYPICAL SECTION
STA. 116+83 TO STA. 119+83.50**

POSTED SPEED 45 MPH

DESIGN SPEED 45 MPH

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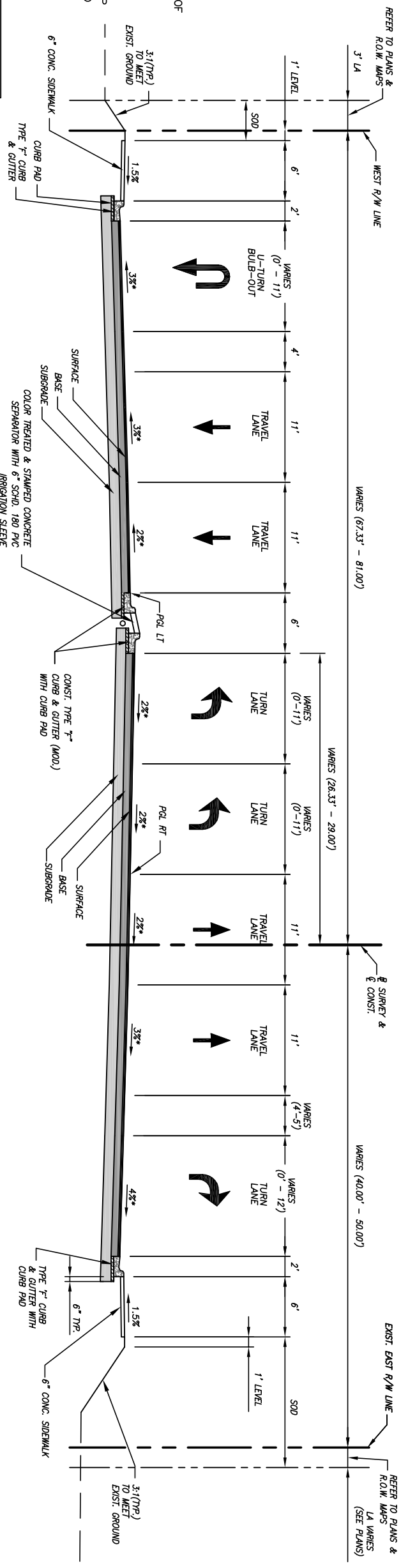
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TYPICAL SECTION NOTES:

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4. OVERBUILD CONSISTING OF 1" TYPE FC-9.5 OVER OVERBUILD SP IS REQUIRED ON SR 60 AND THRU THE INTERSECTION AS INDICATED ON THE PLANS.

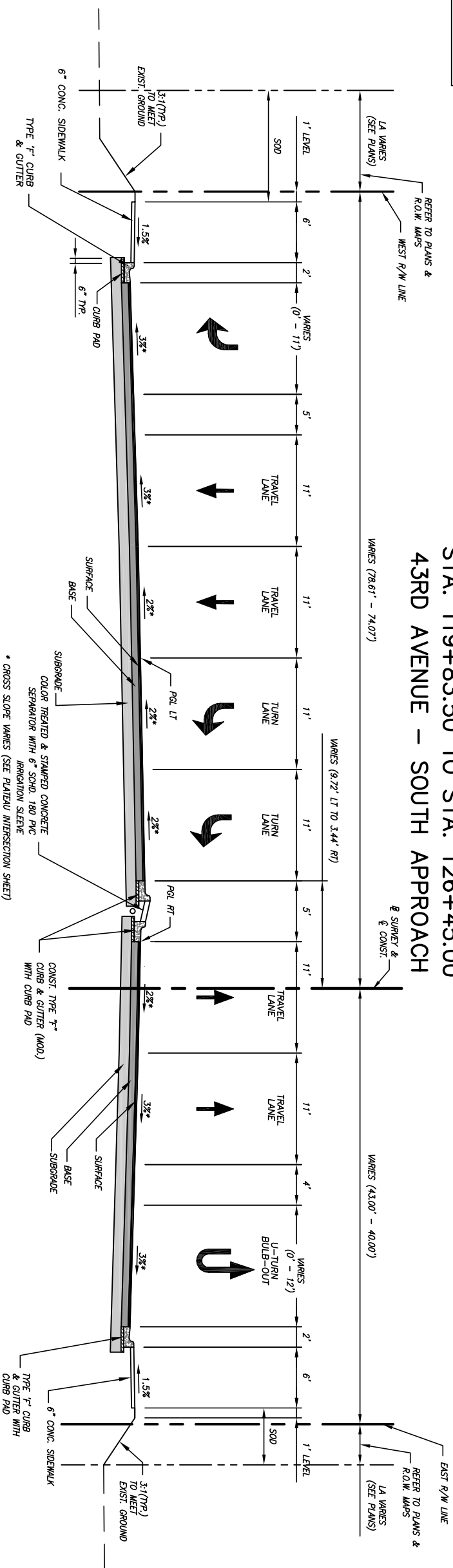
NEW CONSTRUCTION

SURFACE: 1" TYPE FC-9.5 ASPHALTIC CONCRETE SURFACE COURSE (TRAFFIC C) (PG 76-22) W/ POLYMER OVER 1-1/2" TYPE SP-12.5 (TRAFFIC C) ASPHALTIC CONCRETE STRUCTURAL COURSE
 BASE: 8" GENERATED COQUINA SHELL (DOUBLE COURSE) WITH PG-70 FINE CONT. (LBR 100)
 SUBGRADE: 12" STABILIZED SUBGRADE TYPE "B" (LBR-40)



EXPANDED INTERSECTION – TYPICAL SECTION

STA. 119+83.50 TO STA. 126+45.00
 43RD AVENUE – SOUTH APPROACH



EXPANDED INTERSECTION – TYPICAL SECTION

STA. 127+50.00 TO STA. 133+48.80
 43RD AVENUE – NORTH APPROACH

NOTE:
 BRIDGE STA. 129+62.455 TO STA. 130+94.455
 REFER TO BRIDGE PLANS.

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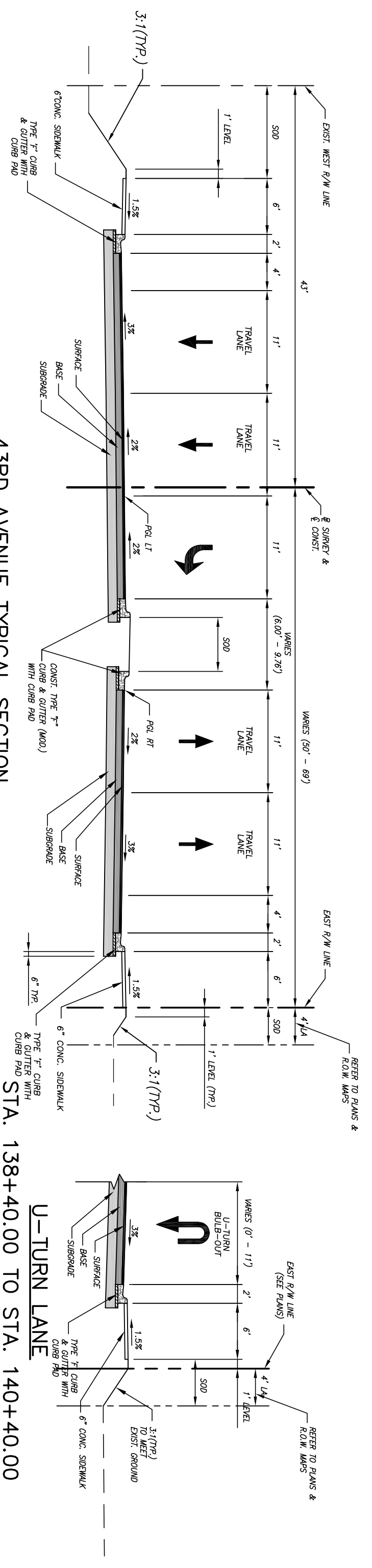
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 Engineering Division

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Project:
 TYPICAL SECTIONS
 FOR
 SR 60 & 43RD AVENUE

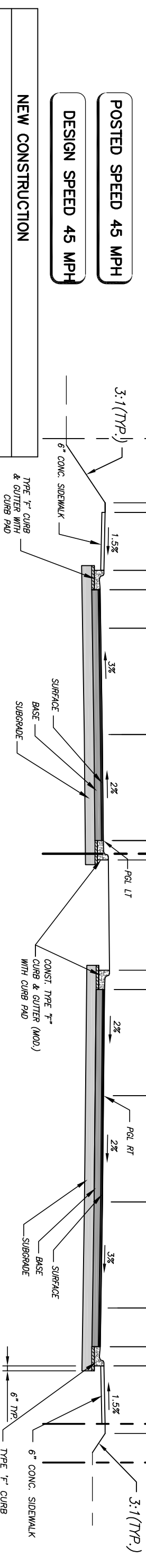
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43RD AVENUE TYPICAL SECTION
STA. 139+38.39 TO STA. 142+70.00
STA. 138+40.00 TO STA. 140+40.00

TYPICAL SECTION NOTES:

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3. CURB PADS SHALL BE CONSTRUCTED OF 6" BASEROCK OR 3" OF B-12.5 AND SHALL EXTEND A MINIMUM OF 6" BEYOND THE BACK OF CURB. COST OF CURB PAD SHALL BE INCLUDED IN THE PRICE FOR CURB & GUTTER



43RD AVENUE TYPICAL SECTION
STA. 133+48.80 TO STA. 138+25.34

POSTED SPEED 45 MPH


DESIGN SPEED 45 MPH

NEW CONSTRUCTION

- SURFACE:**
- 1" TYPE FC-9.5 ASPHALTIC CONCRETE SURFACE COURSE (TRAFFIC C) (Pg 76-22) W/ POLYMER OVER 1-1/2" TYPE SP-12.5 (TRAFFIC C) ASPHALTIC CONCRETE STRUCTURAL COURSE
- BASE:**
- 9" CEMENTED COQUINA SHELL (DOUBLE COURSE) WITH RC-70 PRIME COAT (LBR 100)
- SUBGRADE:**
- 12" STABILIZED SUBGRADE TYPE "B" (LBR-40)

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TYPICAL SECTIONS
FOR
SR 60 & 43RD AVENUE

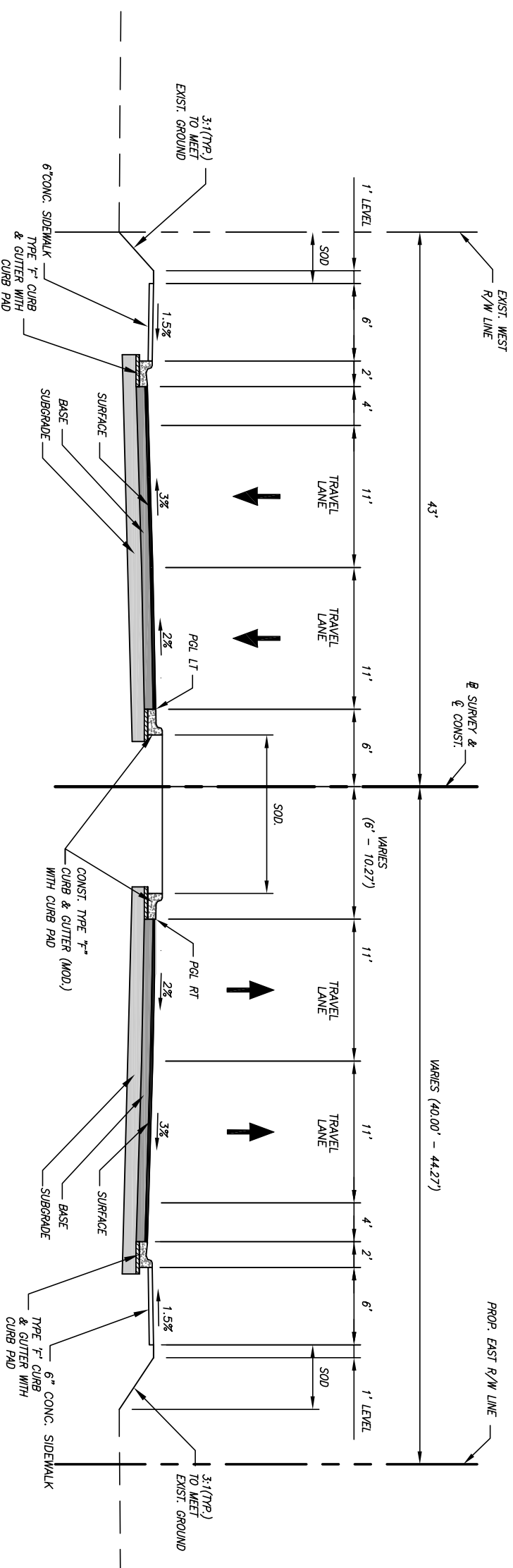
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Project No.:	LWW# WP1027

TYPICAL SECTION NOTES:

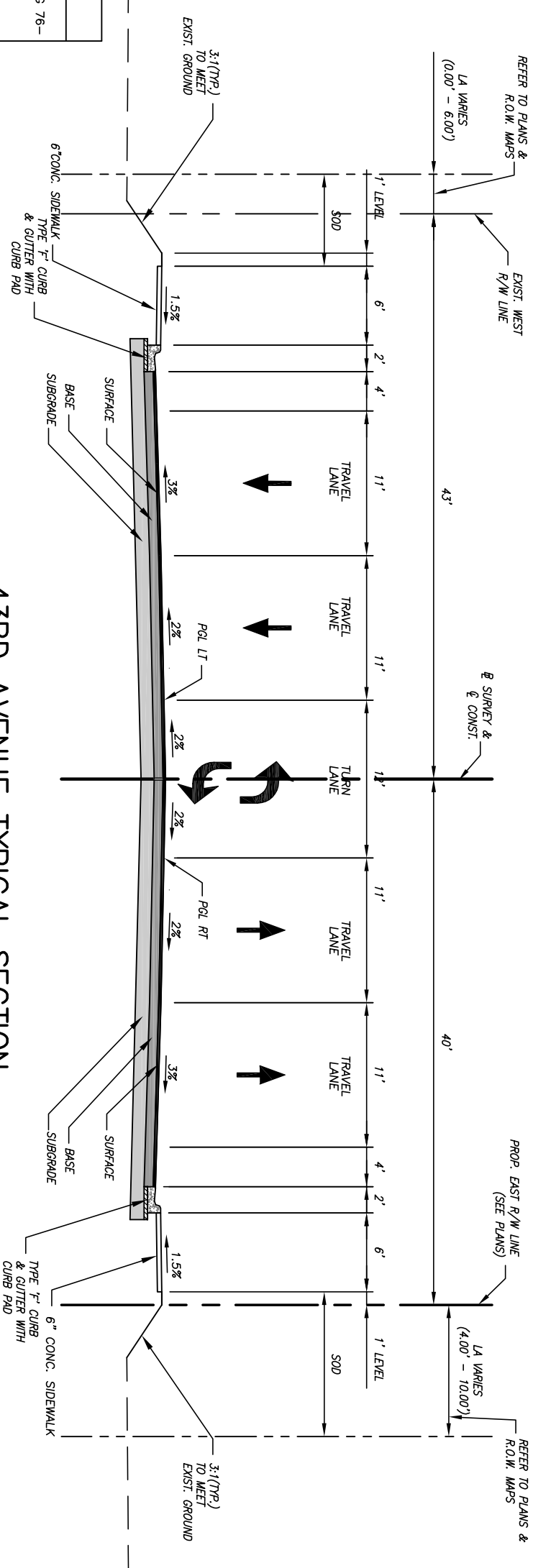
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POSTED SPEED 45 MPH

DESIGN SPEED 45 MPH



**43RD AVENUE TYPICAL SECTION
STA. 142+70.00 TO STA. 145+80.81**



**43RD AVENUE TYPICAL SECTION
STA. 145+80.81 TO STA. 151+83.74**

NEW CONSTRUCTION	
SURFACE:	1" TYPE FC-9.5 ASPHALTIC CONCRETE SURFACE COURSE (TRAFFIC C) (PG 76-22) W/ POLYMER OVER 1-1/2" TYPE SP-12.5 (TRAFFIC C) ASPHALTIC CONCRETE STRUCTURAL COURSE
BASE:	9" CEMENTED COQUINA SHELL (DOUBLE COURSE) WITH RC-70 PRIME COAT (LBR 100)
SUBGRADE:	12" STABILIZED SUBGRADE TYPE "B" (LBR-40)

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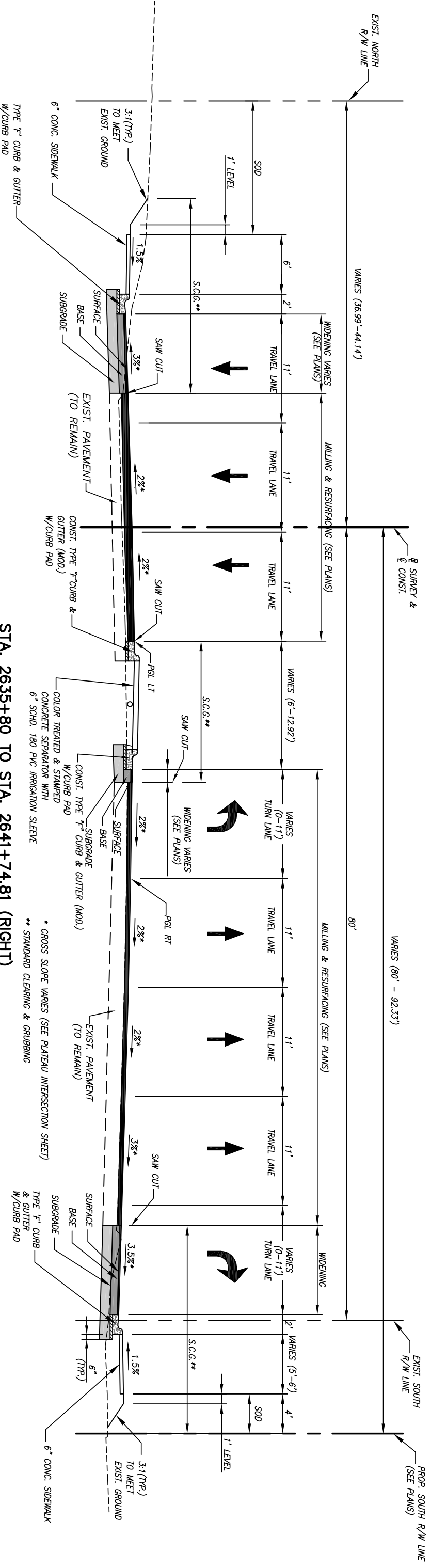


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Engineering Division

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Project: **TYPICAL SECTIONS**
FOR **SR 60 & 43RD AVENUE**

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TYPICAL SECTION NOTES:

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4. RESURFACE CONSISTING OF 1" AVERAGE DEPTH FC-9.5 OVER TYPE SP IS REQUIRED ON SR 60 THRU THE INTERSECTION AS INDICATED ON THE PLANS

STA. 2635+80 TO STA. 2641+74.81 (RIGHT)
 STA. 2636+67.18 TO STA. 2641+74.81 (LEFT)
 TYPICAL SECTION
 SR 60

OVERBUILD

STATION	WB EXIST	WB PROP	COMMENT	EB EXIST	EB PROP	COMMENT
2637+00			BRIDGE	2.63%	2%	3% OUTSIDE LANE
2638+00	2.55%	2%	3.91% OUTSIDE LANE	3.11%	2%	3% OUTSIDE LANE
2639+00	3.73%	2%	3% OUTSIDE LANE	2.66%	2%	3% OUTSIDE LANE
2640+00	3.51%	2%	3% OUTSIDE LANE	2.64%	2%	3%-3.45% OUTSIDE LANES
2641+00	3.18%	2.09%-2.5%	SEE PLATEAU	3.30%	2%	SEE PLATEAU
2642+00	3.72%	0%	SEE PLATEAU	3.27%	0%	SEE PLATEAU
2643+00			SEE PLATEAU			SEE PLATEAU
2644+00	3%	1.36%	SEE PLATEAU	3.50%	1.45%	SEE PLATEAU
2645+00	3.74%	2%	2.4% OUTSIDE LANE	3.48%	2%	3% OUTSIDE LANE
2646+00	3.38%	2%	3%-3.47% OUTSIDE LANES	3.03%	2%	3% OUTSIDE LANE
2647+00	2.83%	2%	3% OUTSIDE LANE	3.66%	2%	3% OUTSIDE LANE
2648+00	3.16%	2%	3% OUTSIDE LANE	3.76%	2%	3.73% OUTSIDE LANE
2649+00	3.92%	2%	3% OUTSIDE LANE	3.54%	2%	4% OUTSIDE LANE
2650+00	4.28%	2%	3% OUTSIDE LANE	3.54%	2%	3% OUTSIDE LANE
2651+00	3.94%	2%	3% OUTSIDE LANE	4.04%	2%	3% OUTSIDE LANE
2652+00	4.14%	2%	4% OUTSIDE LANE	3.48%	2%	3% OUTSIDE LANE
2653+00	3.93%	2%	3.82% OUTSIDE LANE	3.84%	2%	3% OUTSIDE LANE
2654+00	2.76%	2%	3% OUTSIDE LANE	2.86%	2%	3% OUTSIDE LANE
2655+00	2.88%	2%	3% OUTSIDE LANE	4.05%	2%	3% OUTSIDE LANE
2656+00	3.13%	2%	3% OUTSIDE LANE	3.47%	2%	3% OUTSIDE LANE
2657+00	3.39%	2%	3% OUTSIDE LANE	3.02%	2%	3% OUTSIDE LANE
2658+00	2.13%	2%	3% OUTSIDE LANE	2.62%	2%	3% OUTSIDE LANE
2659+00	3.11%	2%	4% OUTSIDE LANE			NO OVERBUILD
2660+00	3.12%	2%	3% OUTSIDE LANE			NO OVERBUILD

WIDENING

SURFACE: 1" TYPE FC-9.5 ASPHALTIC CONCRETE SURFACE COURSE (TRAFFIC C) (PG 76-22) W/ POLYMER OVER 1-1/2" TYPE SP-12.5 (TRAFFIC C) ASPHALTIC CONCRETE STRUCTURAL COURSE

BASE: 9" CEMENTED COQUINA SHELL (DOUBLE COURSE) WITH RC-70 PRIME COAT (LBR 100)

SUBGRADE: 12" STABILIZED SUBGRADE TYPE "B" (LBR-40)

DESIGN SPEED 45 MPH

POSTED SPEED 45 MPH

MILLING & RESURFACING

MILLING: MILL EXISTING PAVEMENT (2.5" AVERAGE DEPTH) (LOCATIONS ARE SHOWN ON THE PLANS)

OVERBUILD: TYPE SP OVERBUILD (TRAFFIC C) THICKNESS VARIES (0" TO 2")

RESURFACING: TYPE SP STRUCTURAL COURSE (TRAFFIC C) 1.5" AND FRICTION COURSE FC-9.5 (1") (TRAFFIC C) (PG 76-22) WITH POLYMER.

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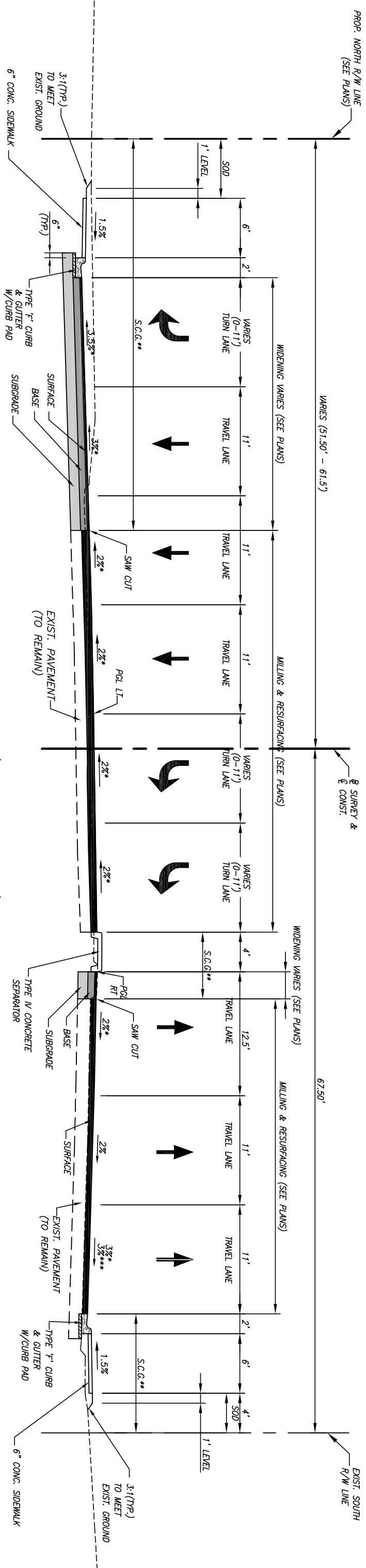
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Project: TYPICAL SECTIONS
 FOR SR 60 & 43RD AVENUE

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* CROSS SLOPE VARIES (SEE PLATEAU INTERSECTION SHEET)
 REFER TO SHEET 27 FOR PLATEAU GRADING WITHIN THE INTERSECTION OF SR 60 & 43RD AVENUE
 ** STANDARD CLEARING & GRUBBING
 *** CROSS SLOPE VARIES FROM 3% TO 4% STA. 2647+29 TO 2649+23 RIGHT

TYPICAL SECTION NOTES:

1. ALL PAVED AREAS WITHIN THE PROJECT LIMITS WHICH ARE NOT SPECIFICALLY COVERED BY A "TYPICAL SECTION" SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PAYMENT SPECIFICATIONS INDICATED HEREON, UNLESS OTHERWISE NOTED.
2. WHEN LOCATED ON THE HIGH SIDE OF THE ROADWAY, CURB & GUTTER TYPE "F" SHALL BE MODIFIED IN ACCORDANCE WITH FDOT STANDARD INDEX NO. 300
3. CURB PADS SHALL BE CONSTRUCTED OF 6" BASEROCK OR 3" OF B-12.5 AND SHALL EXTEND A MINIMUM OF 6" BEYOND THE BACK OF CURB. COST OF CURB PAD SHALL BE INCLUDED IN THE PRICE FOR CURB & GUTTER
4. RESURFACE CONSISTING OF 1" AVERAGE DEPTH FC-9.5 OVER TYPE SP IS REQUIRED ON SR 60 THRU THE INTERSECTION AS INDICATED ON THE PLANS

STA. 2643+71.60 TO STA. 2649+23.00
TYPICAL SECTION
SR 60

POSTED SPEED 45 MPH
DESIGN SPEED 45 MPH

WIDENING	
SURFACE:	1" TYPE FC-9.5 ASPHALTIC CONCRETE SURFACE COURSE (TRAFFIC C) (PG 76-22) W/ POLYMER OVER 1-1/2" TYPE SP-12.5 (TRAFFIC C) ASPHALTIC CONCRETE STRUCTURAL COURSE
BASE:	9" CEMENTED COQUINA SHELL (DOUBLE COURSE) WITH RC-70 PRIME COAT (LBR 100)
SUBGRADE:	12" STABILIZED SUBGRADE TYPE "B" (LBR-40)

MILLING & RESURFACING	
MILLING:	MILL EXISTING PAVEMENT (2.5" AVERAGE DEPTH) (LOCATIONS ARE SHOWN ON THE PLANS)
OVERBUILD:	TYPE SP OVERBUILD (TRAFFIC C) THICKNESS VARIES (0" TO 2")
RESURFACING:	TYPE SP STRUCTURAL COURSE (TRAFFIC C) 1.5" AND FRICTION COURSE FC-9.5 (1") (TRAFFIC C) (PG 76-22) WITH POLYMER.

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Engineering Division

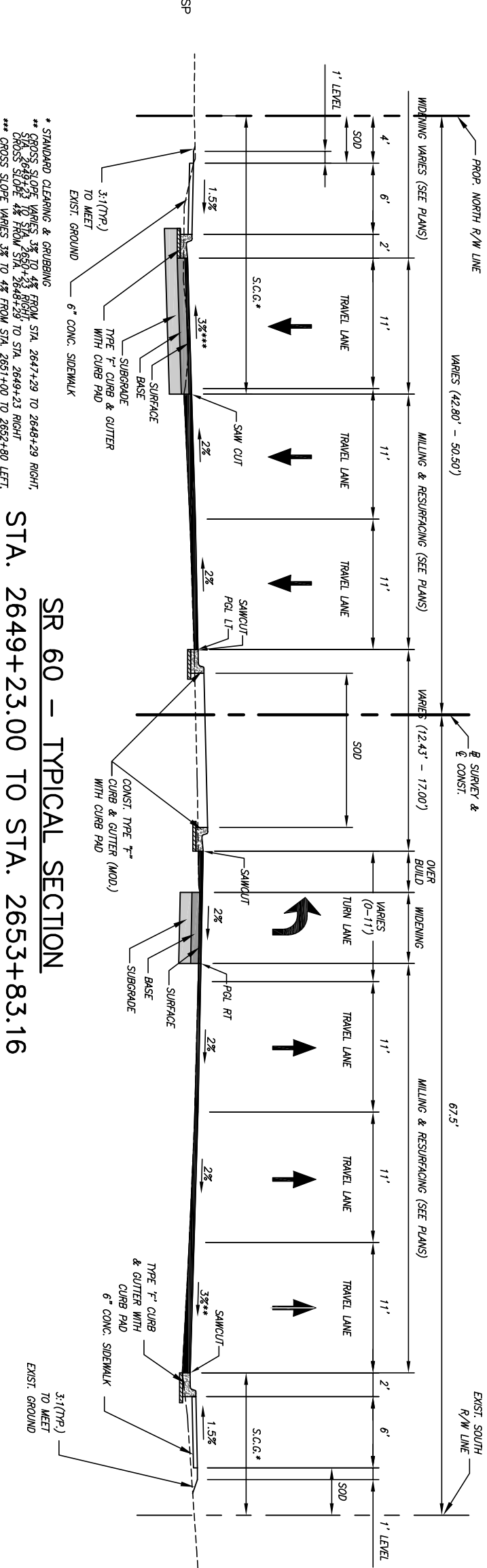
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Project:
TYPICAL SECTIONS
FOR
SR 60 & 43RD AVENUE

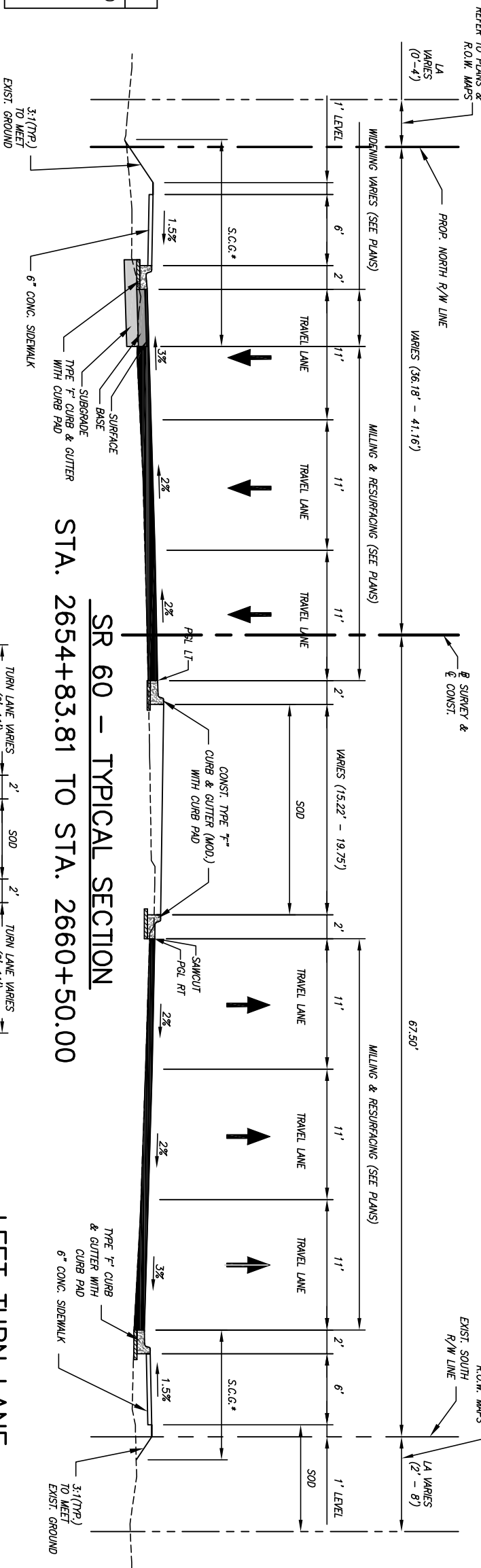
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TYPICAL SECTION NOTES:

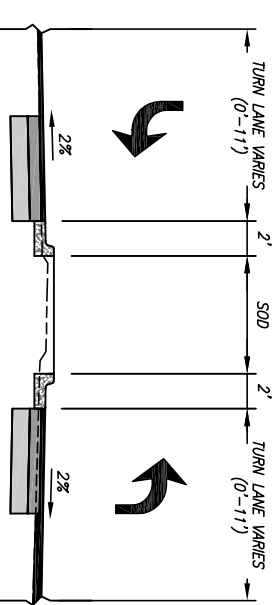
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SR 60 - TYPICAL SECTION
 STA. 2649+23.00 TO STA. 2653+83.16



SR 60 - TYPICAL SECTION
 STA. 2654+83.81 TO STA. 2660+50.00



LEFT TURN LANE
 2655+61.68 TO 2656+90.30
 2658+63.04 TO 2659+25.15
 2654+83.81 TO 2656+11.68
 2658+50.83 TO 2659+12.90

POSTED SPEED 45 MPH
DESIGN SPEED 45 MPH

WIDENING

SURFACE: 1" TYPE FC-9.5 ASPHALTIC CONCRETE SURFACE COURSE (TRAFFIC C) (PG 76-22) W/ POLYMER OVER 1-1/2" TYPE SP-12.5 (TRAFFIC C) ASPHALTIC CONCRETE STRUCTURAL COURSE
BASE: 9" CEMENTED COQUINA SHELL (DOUBLE COURSE) WITH RC-70 PRIME COAT (LBR 100)
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MILLING & RESURFACING

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* STANDARD CLEARING & GRUBBING

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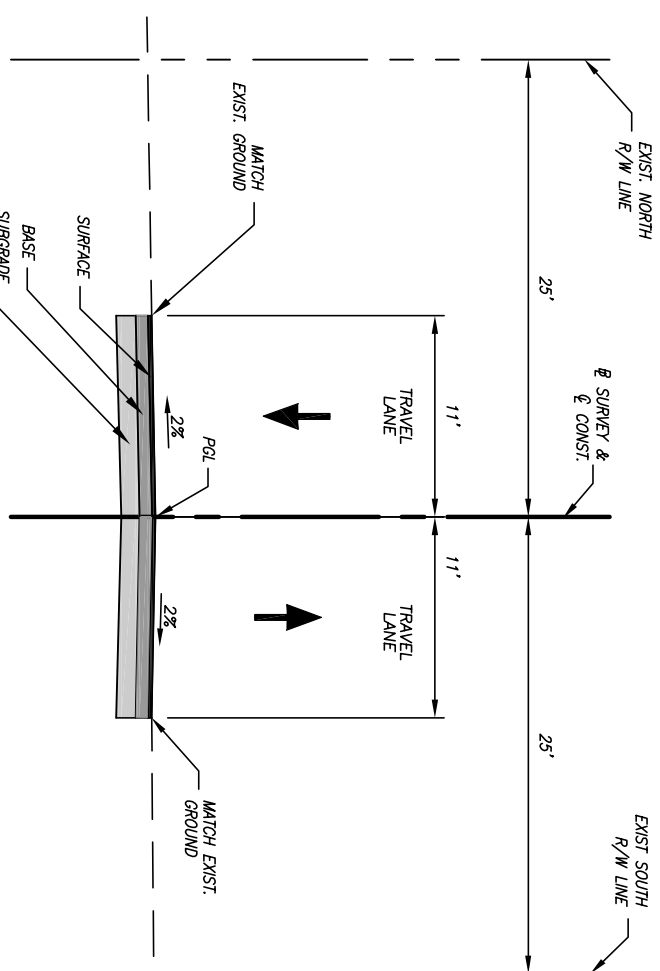
Project: TYPICAL SECTIONS
FOR SR 60 & 43RD AVENUE

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LWW#	WP1027

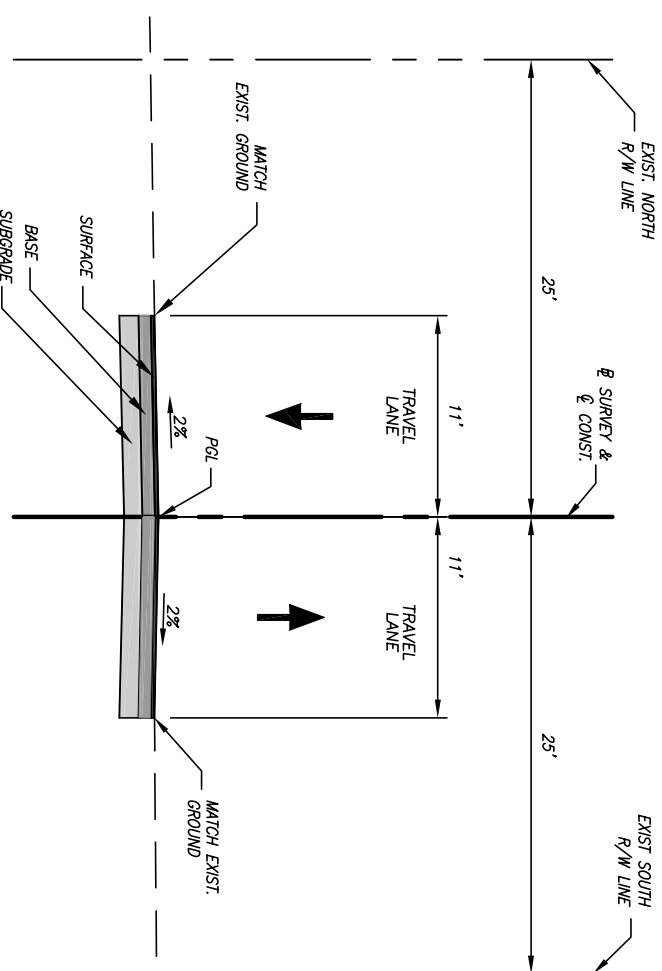
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DESIGN SPEED 30 MPH



**44TH AVENUE TYPICAL SECTION
STA. 100+40 TO STA. 109+52**



**19TH AVENUE TYPICAL SECTION
STA. 9+47 TO STA. 11+95.43**

RECONSTRUCTION

- SURFACE:** 1" TYPE FC-9.5 ASPHALTIC CONCRETE SURFACE COURSE (TRAFFIC C) (PG 76-22) W/ POLYMER OVER 1-1/2" TYPE SP-12.5 (TRAFFIC C) ASPHALTIC CONCRETE STRUCTURAL COURSE
- BASE:** 9" CEMENTED COQUINA SHELL (DOUBLE COURSE) WITH RC-70 PRIME COAT (LBR 100)
- SUBGRADE:** 12" STABILIZED SUBGRADE TYPE "B" (LBR-40)

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Project: TYPICAL SECTIONS
FOR SR 60 & 43RD AVENUE

Sheet: 12A
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Project No.
LW# WPI027

SUMMARY OF PAY ITEMS

NO.	ITEM	UNIT	QUANTITY
	ROADWAY CONSTRUCTION		
0101 1A	MOBILIZATION	LS	1
0102 1	MAINTENANCE OF TRAFFIC (INCLUDES PEDESTRIAN MOT)	LS	1
0102 14	TRAFFIC CONTROL OFFICER (OFF DUTY LAW ENFORCEMENT)	MH	300
0102 99	PORTABLE CHANGEABLE VARIABLE MESSAGE SIGN (8)	ED	7520
0104	N.P.D.E.S. COMPLIANCE	LS	1
0104 10 3	SEDIMENT BARRIER	LF	16456
0104 11	FLOATING TURBIDITY BARRIER	LF	580
0104 18	INLET PROTECTION SYSTEM	EA	69
0110 1 1	CLEARING AND GRUBBING	LS	1
0120 1	REGULAR EXCAVATION	CY	12656
0120 6	EMBANKMENT (COMPACTED IN PLACE)	CY	5781
0160 4	TYPE B STABILIZATION (12" SUBGRADE, LBR 40)	SY	44072
0285 707	OPTIONAL BASE, BASE GROUP 07 (9" CEMENTED COQUINA)	SY	40580
0286 1	TURNOUT CONSTRUCTION/DRIVEWAY BASE (CONCRETE)	SY	1526
0286 2	TURNOUT CONSTRUCTION-ASPHALT/DRIVEWAY BASE-ASPHALT MATERIAL	TN	98
0327 70 1	MIL EXIST ASPH PAVT, 2.5" ANG DEPTH	SY	2944
0334 1 13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C (OVERBUILD)	TN	7200
0334 1 13A	SUPERPAVE ASPHALTIC CONC, TRAFFIC C (SP-12.5, 1-1/2" THICK) (WITH POLYMER)	TN	3348
0337 7 82	ASPHALT CONCRETE FRICTION COURSE, FC-9.5, TRAFFIC C, PG 76-22, (WITH POLYMER) 1" THICK	TN	3355
0400 0 11	CONCRETE CLASS NS, GRAVITY WALL	CY	81.9
0400 1 2	CONCRETE CLASS I, ENDWALLS	CY	6.33
0425 1321	INLETS, CURB, TYPE P-1, <10"	EA	5
0425 1321	INLETS, CURB, TYPE P-2, <10"	EA	4
0425 1341	INLETS, CURB, TYPE P-4, <10"	EA	1
0425 1351	INLETS, CURB, TYPE P-5, <10"	EA	16
0425 1352	INLETS, CURB, TYPE P-5, >10"	EA	2
0425 1361	INLETS, CURB, TYPE P-6, <10"	EA	12
0425 1421	INLETS, CURB, TYPE J-2, <10"	EA	2
0425 1451	INLETS, CURB, TYPE J-5, <10"	EA	1
0425 1452	INLETS, CURB, TYPE J-5, >10"	EA	1
0425 1461	INLETS, CURB, TYPE J-6, <10"	EA	2
0425 1521	INLETS, DITCH BOTTOM, TYPE G, <10"	EA	27
0425 1521A	INLETS, DITCH BOTTOM, TYPE G, <10" (MODIFIED)	EA	2
0425 1559	INLETS, DITCH BOTTOM, TYPE E, <10"	EA	2
0425 1711	INLETS, GUTTER, TYPE V, <10"	EA	2
0425 2 41	MANHOLES, P-7, <10"	EA	4
0425 2 43	MANHOLES, P-7, PARTIAL	EA	1
0425 2 61	MANHOLES, P-8, <10"	EA	3
0425 2 71	MANHOLES, J-7, <10"	EA	3
0425 2 91	MANHOLES, J-8, <10"	EA	11
0425 4	INLETS, ADJUST	EA	7
0425 5	MANHOLE, ADJUST	EA	7
0425 6	VALVE BOXES, ADJUST	EA	38
0430174115	PIPE CULVERT, RCP, ROUND, 15" SD	LF	30
0430174118	PIPE CULVERT, RCP, ROUND, 18" SD	LF	4054
0430174124	PIPE CULVERT, RCP, ROUND, 24" SD	LF	1143
0430174130	PIPE CULVERT, RCP, ROUND, 30" SD	LF	198
0430174136	PIPE CULVERT, RCP, ROUND, 36" SD	LF	2231
0430174142	PIPE CULVERT, RCP, ROUND, 42" SD	LF	853
0430982140	MITERED END SECTION	LF	85
0430984125	MITERED END SECTION	EA	1
0430984138	MITERED END SECTION	EA	1
0430984141	MITERED END SECTION	EA	1
0443 70 3	FRENCH DRAIN, 18"	LF	1616
0515 1 2	PIPE HANDRAIL - GUDBERAIL, ALUMINUM	LF	1187
0520 1 10	CONCRETE CURB & GUTTER, TYPE F	LF	21539
0520 5 41	TRAFFIC SEPARATOR CONCRETE - TYPE IV, 4' WIDE	LF	457
0520 70	CONCRETE TRAFFIC SEPARATOR, SPECIAL-VARIABLE WIDTH (COLOR TREATED AND STAMPED CONCRETE)	SY	575
0522 2	CONCRETE AND DRIVEWAYS, 6" THICK	SY	6242
0524 1 2	CONCRETE DITCH PAVEMENT, NON REINFORCED, 4" THICK	SY	49
0527 2	DETECTABLE MARKING	EA	480
0530 3 4	RIPRAP, RUBBLE, FRI, DITCH LINING	TN	146
0550 10 222	FENCING, TYPE B, 5.1-6.0, W/MANT COATING	LF	1040
0570 1 2	PERFORMANCE TURF, SOO	SY	16393

SUMMARY OF PAY ITEMS

NO.	ITEM	UNIT	QUANTITY
0630 2 11A	2-2" PVC CONDUITS	LF	20
0635 2 12	PULL & SPICE BOX, F & I (30"x48"x24")	EA	2
0999 1	RECORD DRAWINGS/AS-BUILT	LS	1
1050 31206	UTILITY PIPE - PVC, F&I 6"	LF	845
1050 4126	6" HDPE FORCE MAIN CASING	LF	85
	SIGNING & PAVEMENT MARKINGS		
0700 1 11	SINGLE POST SIGN, F&I, <12 SF	AS	73
0700 1 13	SINGLE POST SIGN, F&I, 21-30 SF	AS	1
0700 1 50	SINGLE POST SIGN, RELOCATE	AS	15
0705 111	DELIMITER, FLEXIBLE TUBULAR	EA	18
0706 3	RETRO-REFLECTIVE RAISED PAVEMENT MARKER	EA	796
0710 11290	PAINTED PAVEMENT MARKINGS STANDARD, YELLOW, ISLAND NOSE	SF	67
0711 11122	THERMOPLASTIC, STANDARD, WHITE, SOLID, 8"	LF	2135
0711 11123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12"	LF	2611
0711 11124	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18"	LF	455
0711 11125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24"	LF	565
0711 11160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE	EA	20
0711 11170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA	86
0711 11222	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18"	LF	77
0711 16101	THERMOPLASTIC, STANDARD, WHITE, SOLID, 6"	GM	3.10
0711 16131	THERMOPLASTIC, STANDARD, WHITE, SKIP, 6"	GM	3.59
0711 16201	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 6"	GM	2.37
0711 16231	THERMOPLASTIC, STANDARD, YELLOW, SKIP, 6"	GM	0.44
	SIGNAL		
0630 2 11B	CONDUIT (F&I)(UNDERGROUND)	LF	12057
0630 2 12	CONDUIT (F&I)(UNDERPAVEMENT)(DIRECTIONAL BORE)	LF	1083
0630 2 15	CONDUITS (F&I)(BRIDGE MOUNTED)	LF	1620
0632 7 1	CABLE (SIGNAL)(F&I)	PI	1
0633 1 123	FIBER OPTIC CABLE (F&I)(UNDERGROUND)(96 SINGLE MODE)	LF	7296
0633 3 15	FIBER OPTIC CONNECTION HARDWARE (F&I)(PRETERMINATED PATCH PANEL)	EA	23
0635 2 11A	PULL & SPICE BOXES (F&I)	EA	26
0635 2 13	PULL & SPICE BOXES (F&I)(FIBER OPTICS)	EA	26
0639 2 1	ELECTRICAL POWER SERVICE (F&I)(UNDERGROUND)	AS	1
0639 3 11	ELECTRICAL SERVICE WIRE (F&I)(POLE)	EA	200
0641 2 12	ELECTRICAL SERVICE DISCONNECT (F&I)(POLE)	EA	1
0641 2 80	PRE-STRESSED CONCRETE POLE (F&I)(6-11)	EA	1
0646 1 11	ALUMINUM SIGNAL POLES (F&I)(PEDESTAL)	EA	4
0649 31 105	MAST ARM (F&I)(SINGLE ARM W/O LUM)(78)	EA	8
0649 31 109	MAST ARM (F&I)(SINGLE ARM W/ LUM)(70.5')	EA	1
0649 31 118	MAST ARM (F&I)(DOUBLE ARM W/O LUM)(70.5'-60')	EA	2
0650 1 24	TRAFFIC SIGNAL (F&I)(3-SECT)(1 WAY)(ALUM)	AS	16
0650 1 29	TRAFFIC SIGNAL (F&I)(3-SECT)(1 WAY)(ALUM)	AS	4
0653 1 11	PEDESTRIAN SIGNAL (F&I)(LED, 1 WAY)	AS	8
0660 4 11	VEHICLE DETECTION (F&I)(VIDEO)(CABINET EQUIPMENT)	EA	4
0660 4 12	VEHICLE DETECTION (F&I)(VIDEO)(ABOVE GROUND)	EA	4
0665 1 11	PEDESTRIAN DETECTOR (F&I)(STD)	EA	8
0670 5 110	TRAFFIC CONTROLLER ASSEMBLY (F&I)(VEMA)	EA	4
0670 5 600	CONTROLLER ASSEMBLY (REMOVE)	AS	1
0682 1 133	CCTV CAMERA (F&I)(NON-PRESSURIZED)(IP, HIGH DEF)	EA	1
0684 1 1	MANAGED FIELD ETHERNET SWITCH (F&I)	EA	1
0685 106	SYSTEM AUXILIARIES (UNINTERFERIBLE POWER SOURCE)(F&I)	EA	1
0700 3 201	SIGN PANEL (F&I)(OVERHEAD)(12 SF)	EA	4
0700 5 21	INTERNALLY ILLUMINATED SIGN (F&I)(NAME)(OVERHEAD)(12 SF)	EA	4

PAY ITEMS & CONTINGENCY ITEMS FOOTNOTES:

ITEM 0102 1 INCLUDES ALL ITEMS FOR MAINTENANCE OF TRAFFIC WHICH ARE NOT INCLUDED FOR PAYMENT UNDER SEPARATE ITEMS. COST OF MOT SHALL INCLUDE BUT NOT BE LIMITED TO SIGNS, TEMP BARRIER WALL INCLUDING BRIDGE PHASING, TEMP RAJMS, TEMP STRIPING, ADEQUATE AND PROPER DRAINAGE DURING PROCESS OF THE WORK AND PEDESTRIAN MOT.

ITEM 0110 1 1 INCLUDES REMOVAL OF EXISTING DRAINAGE STRUCTURES & PIPES; CULVERTS; SIGNS; FENCE; CURBS; TRAFFIC SEPARATOR; SIDEWALKS; ASPHALT; BASE; CONCRETE; GUDBERAIL; F.D.P.S; TEMPORARY CONSTRUCTION DETOURS; AND ANY OTHER ITEMS TO BE REMOVED THAT ARE NOT SPECIFICALLY COVERED UNDER ANOTHER SEPARATE PAY ITEM. INCLUDES ALL NECESSARY SAW CUTTING, INCLUDES TREE TRIMMING FOR UTILITY INSTALLATION AND OR RELOCATION AND FOR STREET LIGHTING INSTALLATION.

ITEM 0120 1 INCLUDES ALL EARTHWORK ITEMS (EXCAVATION AND EMBANKMENT) FOR ROADWAY, CURB, SIDEWALK, AND DRIVEWAY CONSTRUCTION, INCLUDES FINAL GRADING & SHAPING AS NECESSARY FOR FINAL RESTORATION.

ITEM 0120 6 INCLUDES COMPACTION OF SUBGRADE IN ACCORDANCE WITH SECTION 120-9 OF THE FOOT SPECIFICATIONS.

ITEM 0160 4 INCLUDES COMPACTED IN PLACE, PRIME COAT AND TACK COAT, AS REQUIRED.

ITEM 0334 1 13 INCLUDES BITUMINOUS MATERIAL, PRIME COAT AND TACK COAT, AS REQUIRED.

ITEM 0337 7 82 THIS ITEM IS FILL COMPACTED IN PLACE.

ITEM 0425 1311 INCLUDES TEMPORARY SHEET PILING AS NEEDED FOR DRAINAGE INSTALLATION.

ITEM 0425 1311 2 PIECE COVER

ITEM 0425 1321 THIS ITEM INCLUDES ALL LABOR, MATERIALS, & EQUIPMENT FOR THE CONTROL STRUCTURE.

ITEM 0425 1421 INCLUDES THICKENED EDGE. ALL CONC. SIDEWALKS AND DRIVEWAYS SHALL BE 6" THICK FIBER REINFORCED CONC.

ITEM 0522 2 INCLUDES MAGNETIC TRACER WIRE.

ITEM 1050 11223 INCLUDES MAGNETIC TRACER WIRE.

ALL ITEMS MAY BE INCREASED, DECREASED OR DELETED AS DIRECTED BY THE ENGINEER.

LEGEND

- ⊖ ----- ANCHOR
- ⊖ ○ CLEAN OUT
- ⊖ □ CATCH BASIN
- ⊖ ⊗ DRAINAGE MANHOLE
- ⊖ ⊕ ELECTRICAL MANHOLE
- ⊖ ○ FIRE HYDRANT
- ⊖ ○ SANITARY MANHOLE
- ⊖ ⊖ SIGN
- ⊖ ⊖ TELEPHONE MANHOLE
- ⊖ ⊖ WATER METER
- ⊖ ⊖ WOOD UTILITY POLE
- ⊖ ⊖ CHAIN-LINK FENCE
- ⊖ ⊖ WOOD FENCE
- ⊖ ⊖ BLACK OLIVE TREE
- ⊖ ⊖ PALM TREE
- ⊖ ⊖ OAK TREE
- ⊖ ⊖ UNKNOWN SPECIES TREE

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Department of Public Works

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Project:

QUANTITIES & GENERAL NOTES

FOR

SR 60 & 43RD AVENUE

Sheet:	13
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SUMMARY OF PAY ITEMS

NO.	ITEM	UNIT	QUANTITY
	LIGHTING		
0633 2 11	PULL BOX (R&R) (ROADSIDE), MOULDED	EA	71
0715 1 13	LIGHTING CONDUCTOR, F&I, INSULATED, No. 4	LF	36765
0715 4 33	CONFLICT LIGHT POLE COMPLETE W/ CONCRETE BASE, F&I, WIND SPEED 160	EA	36
0715 4 13	STANDARD LIGHT POLE COMPLETE W/ CONCRETE BASE, F&I, WIND SPEED 160	EA	30
0715 5 30	LUMINAIRE AND BRACKET ARM MOUNTED ON SIGNAL POLE, F&I	EA	4
0715 500 1	POLE CABLE DISTRIBUTION SYSTEM, P-68	EA	70
0715 7 11	LOAD CENTER (INCLUDES ALL COMPONENTS LISTED ON SERVICE POINT DETAILS DRAWING)	EA	3
1050 31102	LIGHTING CONDUIT, F&I, UNDERGROUND, 2" PVC SCH. 40	LF	11094
	LANDSCAPE		
	HARDSCAPE		
0526 1 2	PAVERS, ARCHITECTURAL, SIDEWALK	SY	290
0523 1	PATTERNED PAVEMENT, VEHICULAR AREAS	SY	800
0520 2 13	HEADER CURB	LF	632
	PLANT LIST		
	TREES		
0580 5 5532	GOROKUA KASANTHUS (LOBLOLLY BAY)(8'-10" x 4'-5" 2.75 CAL)	EA	9
0580 5 572	LIQISTRUM JAPONICUM (JAPANESE PRIVET)(8'-10" O.A MULTISTEM	EA	14
0580 4 235	PHODENIX SYLVESTRIS (STUVESIER DATE PALM)(16' C7)	EA	3
0580 4 345	SABAL PALMETTO (SABAL PALM)(16'-20' C7)	EA	5
	SHRUBS		
0580 7 177	ILEX BOMATORA "Schillings" (OMARF KAUPONOHLI)(#7 FULL)(24" OC)	EA	48
0580 7 337	MYRCANTHES FRAGRANS (SIMPSON'S STOPPER)(#7)(24" O.C.)	EA	59
E575 1	BAHIA SOD (PASPALUM NOTATUM)	SY	5450
E575 1 4A	ST. AUGUSTINE SOD	SY	3400
E580337 5	HERBICIDE, ROOT CONTROL FABRIC-20" WIDE	LF	145
E580326 4	MULCH WOOD CHIPS	CY	16
05090 1	IRRIGATION SYSTEM	LS	1

PAY ITEMS & CONTINGENCY ITEMS FOOTNOTES:

ITEM 0509 01 INCLUDES ALL WELLS, PUMP STATIONS, CONTROLLERS, PIPING, HEADS, VALVES, FIXTURES, ENCLOSURES, CONCRETE WORK, STEVES, PANELS, AND ALL ELSE NECESSARY FOR A COMPLETE INSTALLATION AND SYSTEM.

ITEM 0523 1 INCLUDES DIRT/FORM, INTEGRATED PAVING CONCEPTS, CINNAMON, WAGON WHEEL.

ITEM 0526 1 2 INCLUDE BELARD, HOLLAND 4"x8" 80mm, RED/CHESTNUT/CHARCOAL, 45 DEGREES HERRINGBONE.

ITEM E580326 4 UTILIZE FLORMULCH

ITEM E580337 5 INCLUDES 24" DEEPROOT BARRIER PROTECTION

SUMMARY OF PAY ITEMS

NO.	ITEM	UNIT	QUANTITY
	BRIDGE		
0101 1B	MOBILIZATION	LS	1
	BRIDGE REMOVAL		
0101 3	DEMOLITION & REMOVAL OF EXISTING BARRIERS, RAILINGS, SLAB, AND 4 WING WALLS AS REQUIRED AND DEBRIS PILES AND GUARDRAILS	LS	1
	SUPERSTRUCTURE		
0450 1 2	PRESTRESSED BEAMS TYPE II	LF	778.13
0400 2 4A	CLASS II CONC. FOR BRIDGE DECK AND DIAPHRAGM	CY	144
0415 1 4	REINFORCING STEEL FOR BRIDGE DECK AND DIAPHRAGM	LB	63,459
0400 148 10	CONC. TRAFFIC RAILING BARRIER - 32" VERTICAL SHAPE	LF	348.67
0400 70 2	ALUMINUM PEDESTRIAN BARRIER RAILING	LF	348.67
0440 7	BRIDGE FLOOR GROOVING	SY	523
0400 147	COMPOSITE NEOPRENE PAUS	CF	1.64
	SUBSTRUCTURE		
0400 2 4B	CLASS II CONC. FOR PILE CAPS, PEDESTALS AND SEISMIC BLOCKS	CY	60
0415 1 5	REINFORCING STEEL FOR PILE CAPS, PEDESTALS AND SEISMIC BLOCKS	LB	16,156
0455 3 2A	PRESTRESSED PILES 2.00 18" x 65 FT TEST PILE	LF	130
0455 3 2B	PRESTRESSED PILES 11.00 18" x 50 FT END BENTS	LF	550
0455 3 2C	PRESTRESSED PILES 2.00 18" x 50 FT WING BENTS	LF	100
0455 3 2D	PRESTRESSED PILES 13.00 18" x 50 FT INTERMEDIATE BENTS INCLUDING DEBRIS PILES	LF	620
0455 137	P.D.A. TESTING	EA	2
0400 2 4C	CLASS II CONC. FOR SIDEWALKS	CY	98
	APPROACH SLAB EXTENSIONS		
0400 2 10	CLASS II CONC. FOR APPROACH SLABS	CY	62
0415 1 9	REINFORCING STEEL FOR APPROACH SLABS	LB	12,170
0530 4 6	(REVENMENT MAT)CANAL EXCAVATION AS REQUIRED SHALL BE INCLUDED) INCLUDING REMOVAL OF EXISTING TO PLACE NEW END BENTS	SF	2,934
0715 2117	4" PVC CONDUIT	LF	1,400

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No. _____ Revision: _____

By: _____ Date: _____

No. _____ Revision: _____



Department of Public Works
Engineering Division

Scale: **N.T.S.**
 Approved: **HMD**
 Drawn: **FM**
 Checked: **HMD**
 Date: **6/2017**
 Field Book No. _____

Project:
QUANTITIES & GENERAL NOTES
 FOR
 SR 60 & 43RD AVENUE

Sheet: **13A**
 Of: **99**
 Project No. _____
 LHM# WP1027

GENERAL NOTES

1. PRIOR TO COMMENCEMENT OF ANY EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH FLORIDA STATE 553.851 FOR THE PROTECTION OF UNDERGROUND GAS PIPELINES.
 2. ALL GRADES SHOWN ARE FINISHED GRADES, UNLESS OTHERWISE NOTED.
 3. STATIONS AND OFFSETS REFER TO THE CENTERLINE OF CONSTRUCTION, UNLESS OTHERWISE NOTED.
 4. ALL RETURN RADI DIMENSIONS, STATIONS, OFFSETS, AND ELEVATIONS REFER TO THE EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED.
 5. BENCHMARK (B.M.) LOCATIONS ARE INDICATED BY THE SYMBOL:
 - 6. B.M. DATUM IS NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD-29).
 - 7. ANY EXISTING SECTION CORNER, QUARTER SECTION CORNER AND INDIAN RIVER COUNTY SURVEY CONTROL MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF A MONUMENT IS IN DANGER OF BEING DISTURBED, THE CONTRACTOR SHALL HAVE A PROFESSIONAL LAND SURVEYOR REFERRED TO PRIOR TO CONSTRUCTION, AND RESET IT AFTER CONSTRUCTION.
 - 8. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DISTURBED, AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHALL NOTIFY THE DISTRICT LOCATION SURVEYOR, WITHOUT DELAY, BY TELEPHONE.
 - 9. ANY NGVD-29 MONUMENT WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF A MONUMENT IS IN DANGER OF BEING DISTURBED, THE CONTRACTOR SHOULD NOTIFY:
 - MARK MAINTENANCE SECTION
 - GEODETIC INFORMATION CENTER ATTN: N/CG-162
 - ROCKVILLE, MARYLAND 20852
 - TELEPHONE: 301-443-8319
 - 10. NO CONSTRUCTION SHALL COMMENCE UNTIL ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN SECURED AND THE CONTRACTOR IS ISSUED A NOTICE TO PROCEED.
 - 11. CONTRACTOR SHALL UTILIZE CONSTRUCTION METHODS AND DEVICES AS INDICATED IN FOOT STANDARD INSETS 100, 101, 102, 103, 104 AND 105 WHERE NECESSARY IN ORDER TO COMPLY WITH ALL STATE, LOCAL AND ADECS WATER QUALITY STANDARDS.
 - 12. CONTRACTOR SHALL MAINTAIN TRAFFIC AT ALL TIMES DURING CONSTRUCTION IN ACCORDANCE WITH FOOT INSET NOS. 600 THRU 680 AND SHALL PROVIDE ALL BARRICADES, LIGHTING, SIGNS AND FLAGMEN AS NECESSARY TO PROTECT FOR THE SAFETY OF THE PUBLIC IN THE AREA OF THE WORK. ALL CHANGE TRAFFIC DESIGN STANDARDS SPECIFICATIONS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
 - 13. EXISTING DRAINAGE STRUCTURES AND PIPES WITHIN THE LIMITS OF CONSTRUCTION SHALL REMAIN, UNLESS OTHERWISE NOTED.
 - 14. DURING CONSTRUCTION, SHOULD ANY DRAINAGE STRUCTURES (INCLUDING PIPES) BE FOUND THAT ARE NOT SHOWN ON THE PLANS, NOTIFY THE ENGINEER IMMEDIATELY.
 - 15. EXISTING UTILITIES ARE TO BE ADJUSTED OR RELOCATED BY OTHERS AS DIRECTED BY THE ENGINEER, UNLESS OTHERWISE NOTED.
 - 16. IN REFERENCE TO EXISTING UTILITIES AND UTILITY ADJUSTMENTS:
 - A. THE LOCATION OF UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. IN ADDITION, THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY OTHERS OF THE LOCATION OF UTILITIES ON THE PROJECT. THE CONTRACTOR SHALL INQUIRE WITHIN THE AREA OF CONSTRUCTION SHOULD THERE BE UTILITY CONFLICTS. THE CONTRACTOR SHALL INFORM THE ENGINEER AND NOTIFY THE RESPECTIVE UTILITY OWNER(S) TO RESOLVE UTILITY CONFLICTS AND UTILITY ADJUSTMENTS, AS REQUIRED.
 - B. FOR EXISTING UTILITY SYMBOLS, SEE FOOT STANDARD INDEX 002.
 - C. WATER AND SANITARY SEWER UTILITY WORK SHALL BE IN CONFORMANCE WITH ALL CODES, STANDARDS, AND ORDINANCES CURRENTLY ADOPTED BY THE STATE OF FLORIDA DEPT. OF INDIAN RIVER COUNTY F.A.S.S., AND THE LOCAL UTILITY DEPT. OWNING THE FACILITIES.
 - 17. CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD OR UNDERGROUND UTILITIES.
 - 18. CONTRACTOR SHALL NOTIFY SUNSHINE STATE TONE CALL " (1-800-433-4770) AND ALL AFFECTED UTILITIES 48 HOURS IN ADVANCE OF ANY CONSTRUCTION SO THAT A COMPANY REPRESENTATIVE MAY BE PRESENT.
- EXISTING UTILITY OWNERS:
- | IRC UTILITIES DEPARTMENT | ARLUNA WERAGODA, PE | 772-226-1821 |
|---|------------------------|----------------------|
| AT&T BROADBAND | CRAG BOWERS | 772-778-9635 |
| IRC TELECOMMUNICATION DIVISION | MANNY CABO | 772-226-1318 |
| FLORIDA POWER & LIGHT CO. | DENNIS G. PAGANO | 772-489-6204 |
| FP&L PROJECTS & RELOCATIONS | BILL HESTER | 772-337-7099 |
| FLORIDA GAS TRANSMISSION CO. | JOSEPH SANCHEZ | 407-838-7000 |
| AT&T | MARY GUTIERREZ | 772-460-4443 |
| COMCAST CABLE | WILSON LOPEZ | 772-940-9310 |
| VERO BEACH ELECTRICAL ENGINEERING JILL GLOVER | | 772-978-5459 |
| CITY GAS COMPANY OF FLORIDA | GLEN "BOCK" KREINHAGEN | 772-871-2551 EXT. 23 |
| SEBASTIAN RIVER WCD | ROBERT ULEVICH | 772-562-9176 |
| INDIAN RIVER FARMS WCD | DAVID GUNTER | 772-562-2141 |
| IRC TRAFFIC | JOHN ANKENY | 772-226-1563 |
| VERO BEACH WATER & SEWER DEPT. | TOOD YOUNG | 772-978-5209 |
19. WHEN UTILITY POLES ARE IN AREAS OF EXCAVATIONS, CONTRACTOR SHALL MAINTAIN A MINIMUM SEPARATION OF FIVE (5) FEET BETWEEN THE POLE AND ANY EXCAVATION.
 20. WHEN WORKING WITHIN TEN (10) FEET OF A TRAFFIC SIGNAL POLE, INDIAN RIVER COUNTY TRAFFIC OPERATIONS SHALL BE NOTICED: 772-567-8000.
 21. INTERSECTING ROADS AND DRIVEWAYS SHALL BE GRADED AS DIRECTED BY THE ENGINEER, UNLESS OTHERWISE NOTED ON THE PLANS.
 22. WHERE OPEN-CUTS OF THE EXISTING ROADWAY ARE MADE IN ORDER TO INSTALL PIPELINES, CONDUITS OR SLEEVES, REPAIR THE PAVEMENT IN ACCORDANCE WITH THE "OPEN-CUT PAVEMENT REPAIR DETAIL" IN THESE PLANS. MAINTAIN REPAIRED PAVEMENT FOR THE DURATION OF THE PROJECT.
 23. IN REFERENCE TO THE PROPOSED DRAINAGE STRUCTURES & PIPE:
 - A. SPECIAL ATTENTION IS DIRECTED TO THE FACT THAT PORTIONS OF SOME DRAINAGE STRUCTURES MAY EXTEND INTO THE COMPACTED SUBGRADE PORTION OF THE ROAD BED. EXTREME CAUTION WILL BE NECESSARY DURING CONSTRUCTION OPERATIONS IN THESE LOCATIONS.
 - B. CONCRETE PIPE CULVERT (R.C.P.) SHALL BE CLASS III, WALL B UNLESS OTHERWISE NOTED.
 - C. ALL STORM STRUCTURE TOPS SHALL BE ADJUSTED AT TIME OF FINAL PAVEMENT OR CURB CONSTRUCTION. FINAL ADJUSTMENT OF ALL TOPS SHALL BE THE RESPONSIBILITY OF THE UNDERGROUND CONTRACTOR.
 - D. THE LENGTHS OF PIPE SHOWN HEREON HAVE BEEN DETERMINED BY CALCULATING THE DISTANCE BETWEEN THE "CENTERLINE" OF THE INLETS AND/OR MANHOLES.
 - E. ALL DITCH BOTTOM INLETS SHALL HAVE AN EREBOLT AND CHAIN IN ACCORDANCE WITH FOOT INDEX 201.
 - F. THE CONTRACTOR SHALL VERIFY THE EXISTING INVERT ELEVATIONS AND DIMENSIONS OF ALL EXISTING DRAINAGE STRUCTURES PRIOR TO FABRICATION OF PROPOSED DRAINAGE STRUCTURES.
 - G. OFFSETS TO CURB INLETS ARE AT EDGE OF PAVEMENT.
 24. ALL MANHOLES CURRENTLY SERVED FROM THE ROADWAY BEFORE CONSTRUCTION, MUST BE SERVED FROM THE SAME MANHOLE AFTER CONSTRUCTION. CONSTRUCTION UNDER THE CONTRACT PRICE FOR CLEARING AND GRUBBING SHALL INCLUDE THE RESPONSIBILITY OF THE US POSTAL SERVICE MR. DAVE SCHAFFLE AT 772-713-4622 PRIOR TO BEGINNING OF CONSTRUCTION TO COORDINATE MAIL SERVICE REQUIREMENTS. MAIL SERVICE SHALL REMAIN AVAILABLE AT ALL TIMES DURING CONSTRUCTION.
 25. ALL EXISTING FOOT / INDIAN RIVER COUNTY SIGNS WITHIN THE LIMITS OF CONSTRUCTION WHICH ARE TO BE RELOCATED OR REMOVED SHALL BE REMOVED BY THE CONTRACTOR AND STOCKPILED WITHIN THE RIGHT-OF-WAY FOR REMOVAL OR RELOCATION BY INDIAN RIVER COUNTY FORCES. NOTIFY INDIAN RIVER COUNTY TRAFFIC OPERATIONS AT 772-567-8000.
 26. CONTRACTOR SHALL EXERCISE CAUTION WHILE REMOVING AND/OR RELOCATING EXISTING SIGNS IN ORDER TO AVOID DAMAGE TO THE SIGNS. SIGNAGE BY THE ENGINEER SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
 27. MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH CURRENT FOOT MANUAL ON UNIFORM TRAFFIC CONTROL STANDARDS (MUTCD).
 28. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING THE EXISTING PAVEMENT MARKINGS BEFORE RESURFACING WORK IS STARTED AND THIS INFORMATION SHALL BE USED IN CONJUNCTION WITH TEMPORARY STRIPING AND FINISHED STRIPING.
 29. EXCAVATED SOILS AND EXISTING ROCK BASE MAY BE USED FOR EMBANKMENT CONSTRUCTION PROVIDED THAT THE MATERIAL IS CLEAN FILL, FREE OF ORGANIC MATERIALS, ROOTS OR OTHER DELETERIOUS MATERIALS, AND OF CONFORMS WITH FOOT SPECIFICATIONS AND FOOT STANDARD INDEX 505.
 30. ANY BORROW MATERIAL REQUIRED FOR THE PROJECT SHALL BE FURNISHED BY THE CONTRACTOR FROM AREAS PROVIDED BY HHA.
 31. ALL MUCK AND PLASTIC MATERIAL WITHIN THE LIMITS OF CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH FOOT STANDARD INDEX 500.
 32. NONE OF THE EXISTING BASE THAT IS REMOVED DURING CONSTRUCTION SHALL BE USED IN THE CONSTRUCTION OF THE PROPOSED BASE, UNLESS AUTHORIZED BY THE ENGINEER.
 33. ALL VEGETATION, DEBRIS, PAVEMENT, CONCRETE OR OTHER UNSUITABLE MATERIALS SHALL BE LEGALLY DISPOSED OF OFF-SITE IN AN AREA PROVIDED BY THE CONTRACTOR.
 34. ALL EXISTING IRRIGATION SYSTEM COMPONENTS CONFLICTING WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. EXISTING PIPES SHALL BE CAPPED PRESSURE TIGHT AT THE R/W LINE OR LIMITS OF CONSTRUCTION. EXISTING CONTROL WIRING SHALL BE CUT, SEALED AND LEFT BURIED BELOW GRADE AT THE R/W LINE OR LIMITS OF CONSTRUCTION. IN ALL CASES, THE CONTRACTOR SHALL CLEARLY MARK IN THE FIELD ALL IRRIGATION SYSTEM BREAKS IN A MANNER ACCEPTABLE TO THE ENGINEER FOR FUTURE RE-CONNECTION OR EXTENSION BY OTHERS. THE COST FOR IRRIGATION SYSTEM REMOVAL, CAPPING PIPE AND SEALING WIRING AND ALL OTHER WORK RELATING TO EXISTING IRRIGATION SYSTEMS SHALL BE INCLUDED IN THE CONTRACT PRICE FOR CLEARING AND GRUBBING.
 35. DRIVEWAY SLOPES MAY BE MODIFIED AS DIRECTED BY THE ENGINEER TO MATCH EXISTING CONDITIONS.
 36. ALL EXISTING INLET GRATES & MANHOLE CASTINGS WHICH ARE REMOVED WITHIN THE LIMITS OF COUNTY R/W'S SHALL BE STOCKPILED WITHIN THE R/W FOR REUSUAL BY COUNTY FORCES CONTACT IRC ROAD & BRIDGE DIVISION AT (561)233-3966.
 37. THE CONTRACTOR SHALL COMPLETELY REMOVE EXISTING ASPHALT & BASE MATERIAL FROM AREAS TO BE SODDED. BACKFILL SHALL CONSIST OF CLEAN, GRANULAR FILL MATERIAL.

CONTAMINATION NOTES:

- RECOMMENDED PLANS NOTES (1)-DEMATERING, 2-IDENTIFIED AREAS OF CONTAMINATION, 3-UNIDENTIFIED AREAS OF CONTAMINATION, 4-BRIDGE ASSESS(TOS):
1. THERE IS IDENTIFIED GROUNDWATER CONTAMINATION ON PROPERTIES ADJACENT TO THE FOOT RIGHT-OF-WAY (ROW). IF DEMATERING METHODS WILL BE EMPLOYED IN THE AREAS LISTED BELOW, CONTAMINATION IMPACTS MAY OCCUR:
 - ? APPROXIMATELY STA 116+00 TO STA 133+40
 - ? APPROXIMATELY STA 263+00 TO STA 2650+00
 2. THERE IS UNIDENTIFIED GROUNDWATER CONTAMINATION WITHIN THE PROJECT CORRIDOR. IF GROUND DISTURBING ACTIVITIES (REACHING THE SATURATED SOILS) ARE SCHEDULED, CONTAMINATION IMPACTS MAY OCCUR IN THE AREAS LISTED BELOW:
 - 0 APPROXIMATELY STATION (STA) 2643+20 TO STA 2646+60 RT (TOWNS MARKET'S AND VERO BEACH DRY CLEANERS PLUMES - SE CORNER)
 - 0 APPROXIMATELY STATION (STA) 2640+40 TO STA 2641+20 RT (TOW'S MOBILE'S PLUME - SW CORNER)
 3. UNIDENTIFIED AREAS OF CONTAMINATION
 - WHEN ENCOUNTERING OR EXPOSING ANY ABNORMAL CONDITION INDICATING THE PRESENCE OF A HAZARDOUS OR TOXIC WASTE, OR CONTAMINANTS CEASE OPERATIONS IMMEDIATELY IN THE VICINITY AND NOTIFY THE INDIAN RIVER COUNTY ENGINEER. THE PRESENCE OF TANKS OR BARRELS, DISCOLORED EARTH, METAL, WOOD, GROUND WATER, ETC.; VISIBLE FUMES; ABNORMAL ODORS; EXCESSIVELY HOT EARTH; SMOKE; OR OTHER CONDITIONS THAT APPEAR ABNORMAL MAY INDICATE HAZARDOUS OR TOXIC WASTES OR CONTAMINANTS AND MUST BE TREATED WITH EXTREME CAUTION.
 - MAKE EVERY EFFORT TO MINIMIZE THE SPREAD OF CONTAMINATION INTO UNCONTAMINATED AREAS. IMMEDIATELY PROVIDE FOR THE SAFETY OF ALL WORKERS AT THE JOB SITE AND MAKE PROVISIONS NECESSARY FOR THE HEALTH AND WELL-BEING OF THE PUBLIC THAT MAY BE EXPOSED TO THE ANY POTENTIALLY HAZARDOUS CONDITIONS. PROVISIONS SHALL INCLUDE ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS, RULES, REGULATIONS OR CODES COVERING HAZARDOUS CONDITIONS AND WILL BE IN A MANNER COMENSURABLE WITH THE GRANTY OF THE CONDITIONS.
 - THE INDIAN RIVER COUNTY ENGINEER AND/OR CONTRACTOR WILL COORDINATE AND MOBILIZE A QUALIFIED CONTAMINATION ASSESSMENT/REMEDIATION (CAR) CONTRACTOR. QUALIFICATIONS OF SUCH CAR CONTRACTOR SHALL INCLUDE, BUT NOT BE LIMITED TO: EXPERIENCE AND PERSONNEL TO PREPARE CONTAMINATION ASSESSMENT PLANS, CONDUCT CONTAMINATION ASSESSMENTS, PREPARE SITE ASSESSMENT REPORTS, REMEDIATION PLANS, IMPLEMENT REMEDIAL ACTION PLANS, RISK BASED CORRECTIVE ACTIONS, STORAGE TANKS SYSTEM REMOVAL, HIGHWAY SPILL RESPONSE AS WELL AS EXPERIENCE WITH INFRASTRUCTURE/CONSTRUCTION ACTIVITIES WITHIN (POTENTIALLY) CONTAMINATED AREAS SPECIFIC TO TRANSPORTATION SYSTEMS.
 - ALL THE WORK PERFORMED BY THE CAR CONTRACTOR SHALL BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS GOVERNING WORKER SAFETY AND ENVIRONMENTAL REGULATIONS. THIS IS TO INCLUDE OCCUPATIONAL EXPOSURE TO CONTAMINATED SOILS, GROUNDWATER, WASTES AND ATMOSPHERE DURING THE CONSTRUCTION OF ALL FEATURES INCLUDED IN THE CONSTRUCTION PLANS. IN ADDITION, THE CAR CONTRACTOR MUST BE STARTED WITH FLORIDA LICENSED TECHNICAL PROFESSIONALS (GEOLOGISTS AND ENGINEERS) WHO WILL BE INVOLVED WITH THE PROJECT AND KNOWLEDGEABLE OF THE WORK ACTIVITIES CONDUCTED WITHIN THE IDENTIFIED CONTAMINATED AREAS AND WHO WOULD SIGN AND SEAL PROJECT REPORTS AS REQUIRED FOR SUBMITTAL TO THE APPROPRIATE ENVIRONMENTAL REGULATORY AGENCIES.

- THE INDIAN RIVER COUNTY ENGINEER WILL IMMEDIATELY NOTIFY THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) DISTRICT VI CONTAMINATION IMPACT COORDINATOR (DOC) AT (305) 470-5228 AFTER ENCOUNTERING THE UNIDENTIFIED AREAS OF CONTAMINATION. PRELIMINARY INVESTIGATION BY THE CAR CONTRACTOR WILL DETERMINE THE COURSE OF ACTION NECESSARY FOR SITE SECURITY AND THE STEPS NECESSARY UNDER APPLICABLE LAWS, RULES, AND REGULATIONS FOR ADDITIONAL ASSESSMENT AND/OR REMEDIATION WORK TO RESOLVE THE CONTAMINATION ISSUE.
- FOLLOWING COMPLETION OF THE PROJECT, THE CAR CONTRACTOR SHALL BE REQUIRED TO PROVIDE COPIES OF ALL REPORTS SUBMITTED TO REGULATORY AGENCIES, WASTE MATERIAL PORTFOLIOS, MANIFESTS AND/OR DISPOSAL RECEIPTS FOR THE HANDLING OF ALL CONTAMINATED MEDIA INCLUDING BUT NOT LIMITED TO GROUND WATER, WASTE WATER, SOILS, SOLID WASTES, SLUDGE, HAZARDOUS WASTES, AIR MONITORING RECORDS AND SAMPLE RESULTS FOR ALL MATERIALS TESTED AND ANALYZED TO THE INDIAN RIVER COUNTY ENGINEER AND THE FOOT DOC.
1. PRIOR TO INITIATING ANY BRIDGE MODIFICATION, REHABILITATION OR DEMOLITION ACTIVITY ON BRIDGE #884056, THE CONTRACTOR CONTRACTOR SHALL SUBMIT A NOTICE OF ASSESS(TOS) RENOVATION [DEP FORM 62-257.900(1)] TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP), OR THEIR DESIGNEE, A MINIMUM OF TEN (10) WORKING DAYS PRIOR TO INITIATING ANY RENOVATION OR DEMOLITION ACTIVITIES.

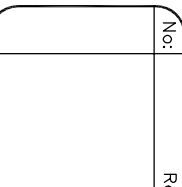
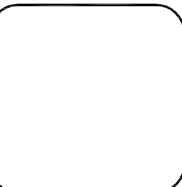
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No:	Revision:	By:	Date:



Department of Public Works
Engineering Division

Scale:	N.T.S.
Approved:	HWD
Drawn:	FM
Checked:	HWD
Date:	6/2017
Field Book No:	


Project:
QUANTITIES & GENERAL NOTES
FOR
SR 60 & 43RD AVENUE

Sheet:	14
Of:	99
Project No:	LHW #1027

SUMMARY OF DRAINAGE STRUCTURES

STR. NO.	INDEX NO.	STA.	SIDE	TYPE	SIZE	PIPE							CURB INLETS					DBI			MANHOLES			REMARKS																									
						15"	18"	24"	30"	36"	42"	48"	18" FD	P-1 <10	P-2 <10	J-2 <10	P-4 <10	P-5 <10	P-5 10>	J-5 <10	J-5 >10	P-6 <10	J-6 <10		P-V <10	ADJ TOP	C <10	C 10 MOD	D <10	E <10	P-7 <10 PART.	J-7 <10	P-8 <10 PART.	J-8 >10	ADJ TOP	MES 18"	MES 36"	MES 42"	MES 48"										
S-24	200.201.211	110+25.21	31 RT	INLET, PIPE	18"		64																																										
S-23	200.201.211	110+25.21	33 LT	INLET, PIPE	18"		205																																										
S-25	200.201.211	112+30	31 RT	INLET, PIPE	18"		64																																										
S-26	200.201.211	112+30	31 LT	INLET, PIPE	24"																																												
S-27	200.201.211	114+91	31 RT	INLET, PIPE	18"		71																																										
S-28	200.201.211	114+91	40 LT	INLET, PIPE	36"																																												
S-29	200.201.211	116+20	43.18 LT	INLET, PIPE	48"																																												
S-201A	200.201.211	125+42	41.5 RT	INLET, PIPE	18"		10																																										
S-201	200.201.211	125+42	31 RT	INLET, PIPE	18"		95																																										
S-202	200.201.211	125+38	72 LT	INLET, PIPE	18"		10																																										
S-203	200.201	125+38.3	63 LT	MH, PIPE	18"		195																																										
S-204	200.201.211	123+23	31 RT	INLET, PIPE	18"		95																																										
S-205	200.201.211	123+43	61 LT	INLET, PIPE	24"																																												
S-206	200.201.211	120+80	23.11 RT	INLET, PIPE	18"		83																																										
S-207	200.201.211	120+80	56.89 RT	INLET, PIPE	24"																																												
S-208	200.201.211	119+44	26.14 RT	INLET, PIPE	18"		85																																										
S-209	200.201.211	119+40	53.78 LT	INLET, PIPE	36"																																												
S-01A	200.201.210	2643+86	47.52 LT	INLET, PIPE	18"		55																																										
S-02	200.201	127+35.09	44.14 RT	MH, PIPE	18"		103																																										
S-03	200.201.211	128+37	33.75 RT	INLET, PIPE	18"		50																																										
S-04	200.201.211	129+00	68.56 LT	INLET, PIPE	18"		78																																										
S-05	200.201.211	128+86	22.33 RT	INLET, PIPE	18"		17																																										
S-06	200.201	128+89.66	7.13 RT	MANHOLE																																													
SHEET TOTAL						0	1280	679	0	434	0	85	0	1	0	0	0	5	2	1	1	6	0	1	0	1	0	0	0	2	0	0	1	1	0	0	1	0	0	0	0	1							
GRAND TOTAL						0	1280	679	0	434	0	85	0	1	0	0	0	5	2	1	1	6	0	1	0	1	0	0	0	2	0	0	1	1	0	0	1	0	0	0	0	0	1						


LC26000269 / 0310 GB



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7917 / LB 7062 EB

NO.	REVISION	BY	DATE


 Department of Public Works
 Engineering Division

SCALE: 1" = 40'
 APPROVED: B.F.
 DRAWN: H.D.
 CHECKED: H.D.
 DATE: 6/2017
 FIELD BOOK NO.


SUMMARY OF DRAINAGE QUANTITIES

FOR
SR 60 & 43RD AVENUE

SHEET 15
OF 99
PROJECT NO. A1027
IRC-108-NO.


SUMMARY OF DRAINAGE STRUCTURES

STR. NO.	INDEX NO.	STA.	SIDE	TYPE	SIZE	PIPE				CURB INLETS						DBI			MANHOLES				REMARKS																	
						15"	18"	24"	30"	36"	42"	48"	18" FD	P-1 <10	P-2 <10	J-2 <10	P-4 <10	P-5 <10	P-5 10>	J-5 <10	J-5 >10	P-6 <10		J-6 <10	P-V <10	ADJ TOP	C <10	C <10 MOD	D <10	E <10	P-7 <10	P-7 PART.	J-7 <10	P-8 <10	P-8 PART.	J-8 >10	ADJ TOP	MES 18"	MES 36"	MES 42"
S-301	200,201,205,211	132+90	42.92 LT	INLET, PIPE	18"		86																																	
S-302	200,201,211	132+90	37.28 RT	INLET, PIPE	18"		208							1																										
S-301B	200,201,211	133+86	55 LT	INLET, PIPE	18"		83																																	
S-301A	200,201,232	133+03	57 LT	INLET, PIPE	18"		18																																	
S-303	200,201,211	135+00	27.16 LT	INLET, PIPE	18"		84																																	
S-303A	200,201,211	136+03.67	22.69 LT	INLET, PIPE	18"		104							1																										
S-304	200,201,211	135+18.51	52.04 RT	INLET, PIPE	24"			222																																
S-305B	200,201,211	136+50	41 LT	INLET, PIPE	18"		80																																	
S-305A	200,201,211	137+30	41 LT	INLET, PIPE	18"		82																																	
S-305	200,201	137+40	51.7 RT	MH, PIPE	24"			242																																
S-305C	200,201,211	138+10	41 LT	INLET, PIPE	18"		80																																	
S-306A	200,201,211	139+80.76	57.19 RT	INLET, PIPE	18"		22																																	
S-306B	200,201,211	139+73	39 LT	INLET, PIPE	18"		77																																	
S-306	200,201	139+82	36.70 RT	MH, PIPE	30"			198																																
S-307	200,201,211	141+80	37 LT	INLET, PIPE	18"		72																																	
S-308	200,201,211	141+80	39.13 RT	INLET, PIPE	36"			216																																
S-309	200,201	143+96	38 RT	MH, PIPE	42"			393																																
S-310	200,201,211	147+70	32 LT	INLET, PIPE	18"		71																																	
S-314	200,201,210	147+70	32 RT	INLET, PIPE	36"			314						1																										
S-313	200,201	150+40	36.5 RT	MH, PIPE	18"		270																																	
S-311	200,201,211	152+82	32 LT	INLET, PIPE	18"		71																																	
S-312	200,201,210	152+82	32 RT	INLET, PIPE	18"		242							1																										
S-315	200,201	143+96	428 RT	MH, PIPE	42"			393																																
S-316	200,201	143+96	821 RT	MH, PIPE	42"			67																																
SHEET TOTAL						0	1650	464	198	590	853	0	0	0	1	1	3	0	0	0	0	6	1	0	0	6	0	0	0	0	0	2	0	4	0	0	0	1	0	
GRAND TOTAL						0	1650	464	198	590	853	0	0	0	1	1	3	0	0	0	0	6	1	0	0	6	0	0	0	0	2	0	4	0	0	0	1	0		



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NO.	REVISION	BY	DATE


*Department of Public Works
 Engineering Division*

SCALE: 1"=40'
 APPROVED: B.F.
 DRAWN: H.D.
 CHECKED: H.D.
 DATE: 6/2017
 FIELD BOOK NO.

SUMMARY OF DRAINAGE QUANTITIES

FOR
SR 60 & 43RD AVENUE

SHEET 16
 OF 99
 PROJECT NO. A1027
 IRC-10B-NO.

SUMMARY OF DRAINAGE STRUCTURES

STR. NO.	INDEX NO.	STA.	SIDE	TYPE	SIZE	PIPE							CURB INLETS					DBI				MANHOLES				REMARKS																	
						15"	18"	24"	30"	36"	42"	48"	18" FD	P-1 <10	P-2 <10	J-2 <10	P-4 <10	P-5 <10	P-5 10>	J-5 >10	P-6 <10	J-6 <10	P-V <10	ADU TOP	C <10		C <10 MOD	D <10	E <10	P-7 <10	P-7 PART	J-7 <10	P-8 <10	P-8 PART	J-8 >10	ADU TOP	MES 18"	MES 36"	MES 42"	MES 48"			
S-5	200,201,211	2650+09	51.00 LT	INLET																																							
S-11A	200,201,232	2650+73.81	50.86 LT	INLET, PIPE	18"	25																																					
S-12	200,201	2650+96.63	29.89 LT	MH, PIPE	18"																																						
S-11	200,201,210	2650+98.53	35.57 LT	INLET, PIPE	18"																																						
S-10	200,201,211	2650+97.83	58.42 RT	INLET	54"																																						
S-9	200,201	2652+45.18	53.84 RT	MANHOLE	54"																																						
S-11B	200,201	2653+96.5	35.56 LT	MH, PIPE	18"		12																																				
S-8	200,201	2654+13.14	55.65 RT	MANHOLE	54"																																						
S-11C	200,201,232	2654+46.64	50.32 LT	DBI																																							
S-7	200,201	2656+25.9	55.15 RT	MANHOLE	54"																																						
S-6	200,201	2657+04.7	25.47 LT	INLET, PIPE	18"																																						
S-6C	200,201	2657+30.14	29 LT	MH, PIPE	18"		23																																				
S-6A	200,201,211	2657+30.14	56 LT	INLET, PIPE	18"		26																																				
S-6B	200,201,211	2657+50.56	55.25 LT	INLET, PIPE	18"		23																																				
S-5	200,201,211	2657+56.49	58.6 RT	INLET	54"																																						
S-1C	200,201,210	2658+72	24 LT	INLET, PIPE	18"		6																																				
S-1B	200,201,211	2659+38.16	24.16 LT	INLET	18"		66																																				
S-1A	200,201,211	2659+63.7	55.34 LT	INLET, PIPE	18"		25																																				
S-4	200,201,211	2659+67	58.6 LT	INLET	48"																																						
S-3A	200,201,211	2659+86.3	54.42 LT	INLET, PIPE	18"		25																																				
S-3B	200,201	2659+88	30 LT	MANHOLE	18"																																						
S-3	200,201	2660+09.8	24.29 LT	INLET, PIPE	18"																																						
S-211	200,201	101+21	9.0 LT	MH, PIPE	36"			201																																			
S-213A	200,201,232	102+80	21.2 RT	INLET, PIPE	18"		40																																				
SHEET TOTAL						0	282	0	0	201	0	0	0	382	2	0	0	0	0	0	0	0	0	0	0	7	2	1	1	0	2	0	1	0	0	1	4	0	0	0	0		
GRAND TOTAL						0	282	0	0	201	0	0	0	382	2	0	0	0	0	0	0	0	0	0	0	0	7	2	1	1	0	2	0	1	0	0	1	4	0	0	0	0	

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NO.	REVISION*	BY	DATE*

Department of Public Works
Engineering Division

SCALE: 1"=40'
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CHECKED, H.D.
DATE, 6/2017
FIELD BOOK NO. _____

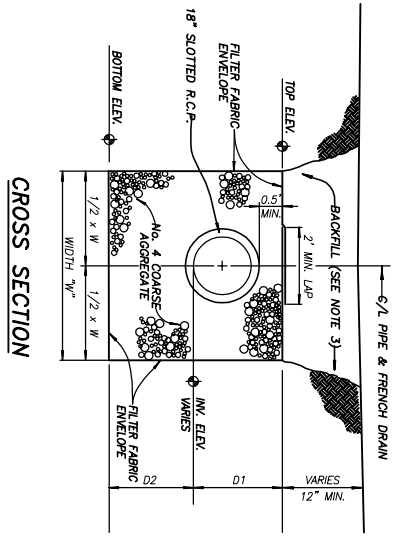
SUMMARY OF DRAINAGE QUANTITIES

FOR
SR 60 & 43RD AVENUE

SHEET, 18 OF 99
PROJECT NO., A1027
IRC-10B-NO. _____

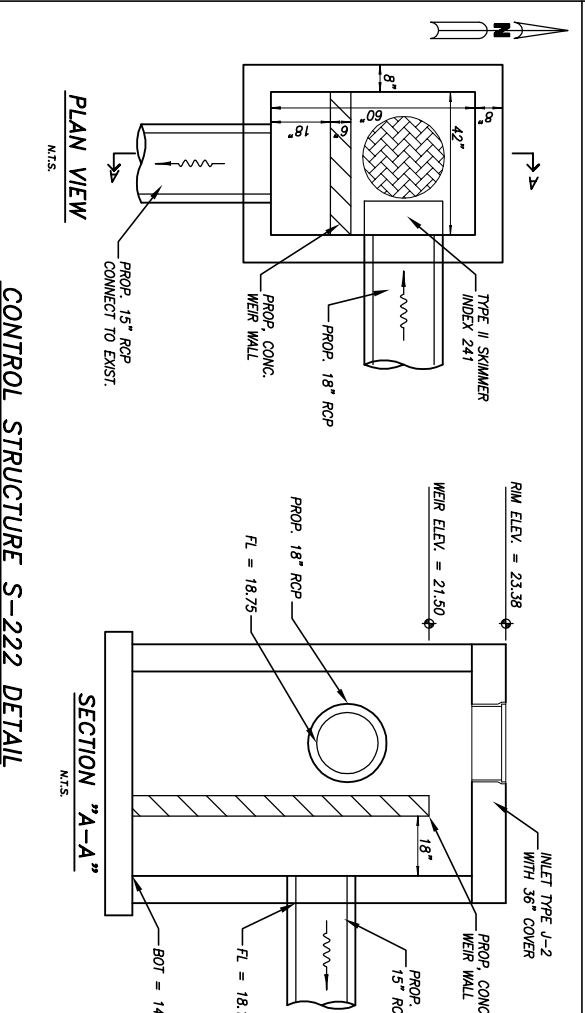
- FRENCH DRAIN GENERAL NOTES:**
- CONFORM WITH ALL REQUIREMENTS OF FOOT INDEX NO. 285 EXCEPT AS SHOWN ON, AND/OR MODIFIED BY THIS DETAIL AND THESE GENERAL NOTES.
 - ALL FILTER FABRIC JOINTS SHALL LAP A MINIMUM OF TWO (2) FEET.
 - PROVIDE CLEAN SAND BACKFILL ABOVE FRENCH DRAIN LOCATED UNDER GRASSED AREAS. PROVIDE SELECT BACKFILL IN ACCORDANCE W/ SECTION 443 OF THE FOOT SPECIFICATIONS ABOVE FRENCH DRAIN LOCATED UNDER ROADWAY PAVEMENT OR DRIVEWAY PAVEMENT.
 - PROVIDE ALL SHORING, SHEETING AND/OR BRACING AS REQUIRED FOR CONSTRUCTION OF THE FRENCH DRAIN WITHIN THE R/W. THE COST OF SHORING, SHEETING AND BRACING SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR FRENCH DRAIN (PER LF).
 - ALL PIPS TERMINATING WITHIN THE FRENCH DRAIN WITHOUT A MANHOLE/ INLET SHALL BE CAPPED WITH A PREFABRICATED C.M.P. CAP OR PLUGGED WITH A MASONRY PLUG IN ACCORDANCE WITH FOOT INDEX NO. 280.

TYPICAL DETAIL – FRENCH DRAIN

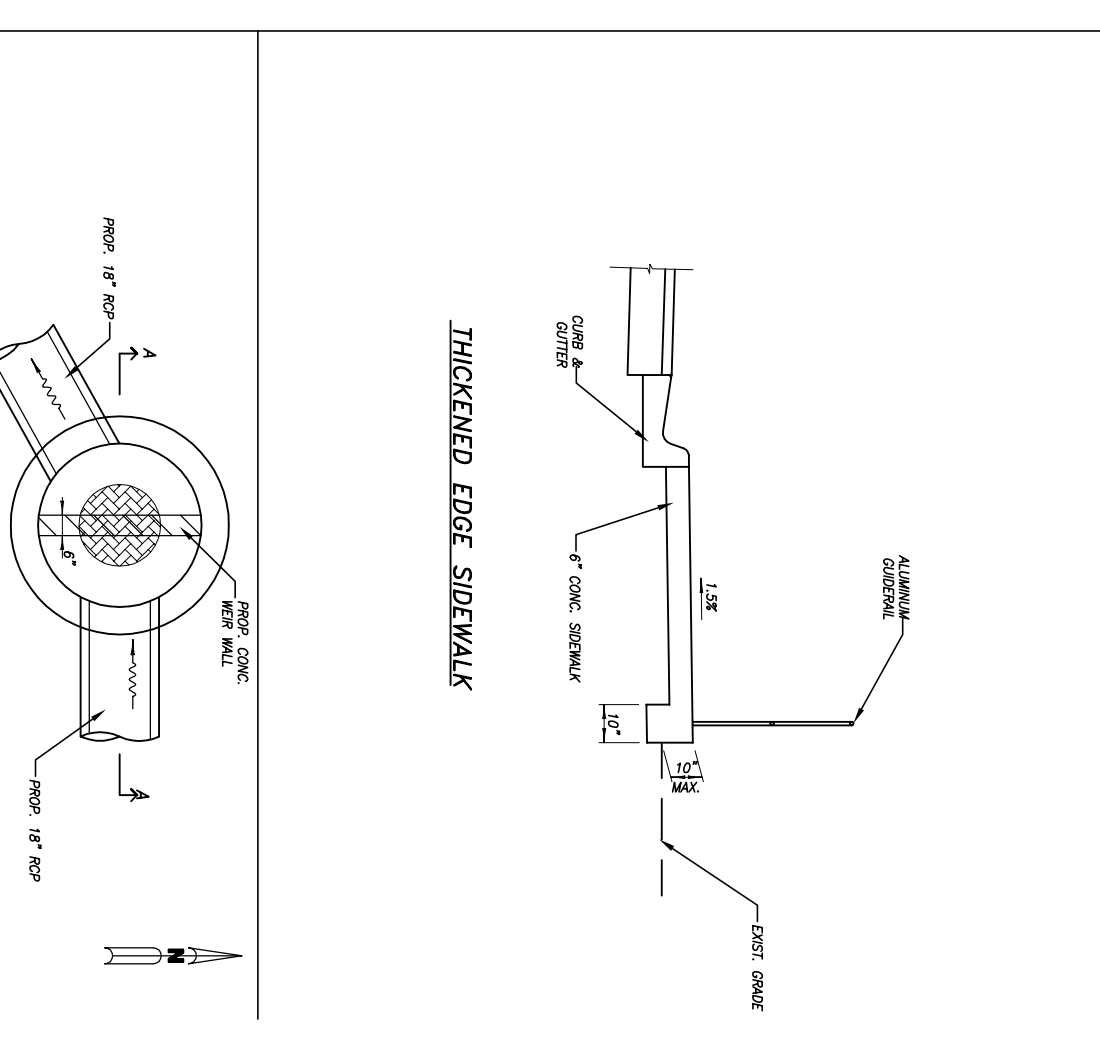
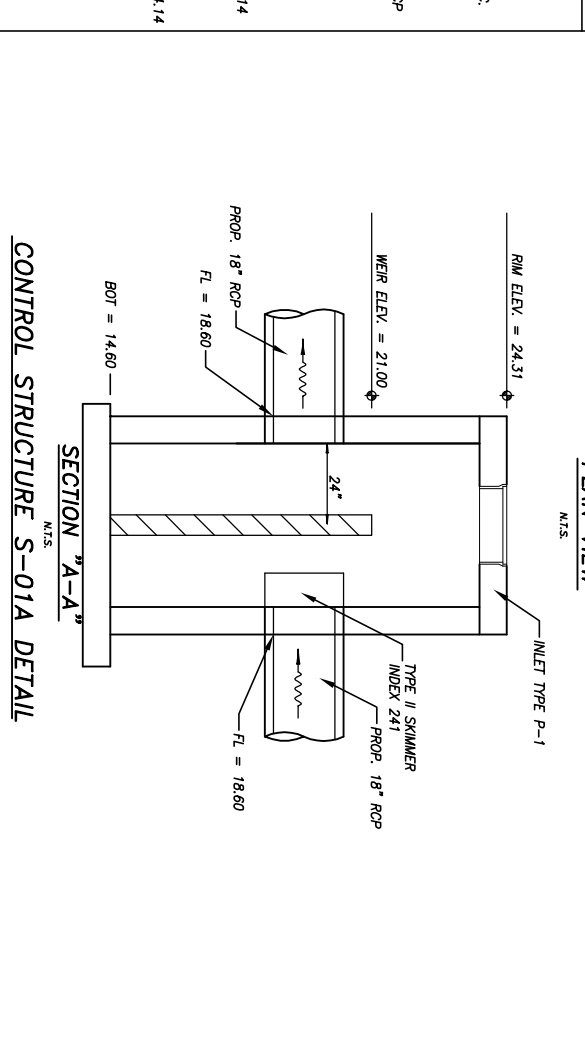
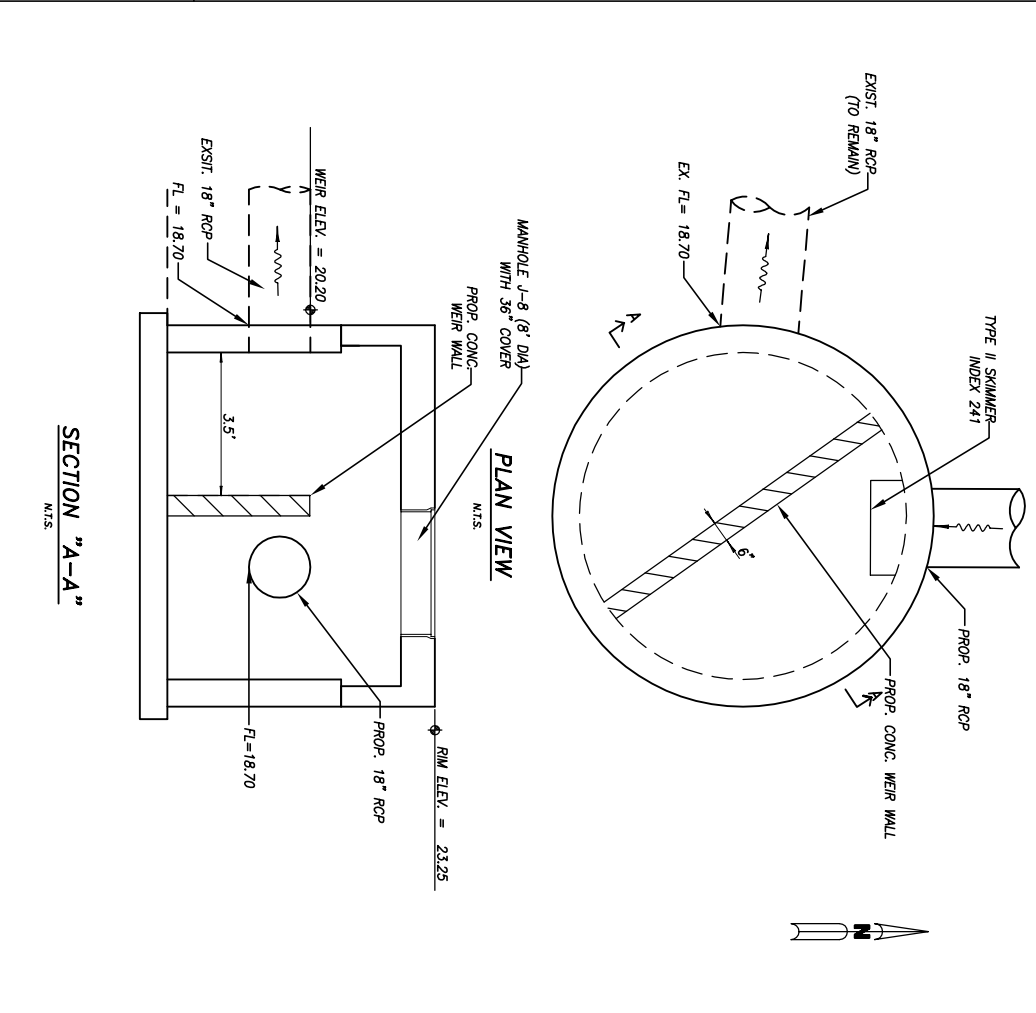


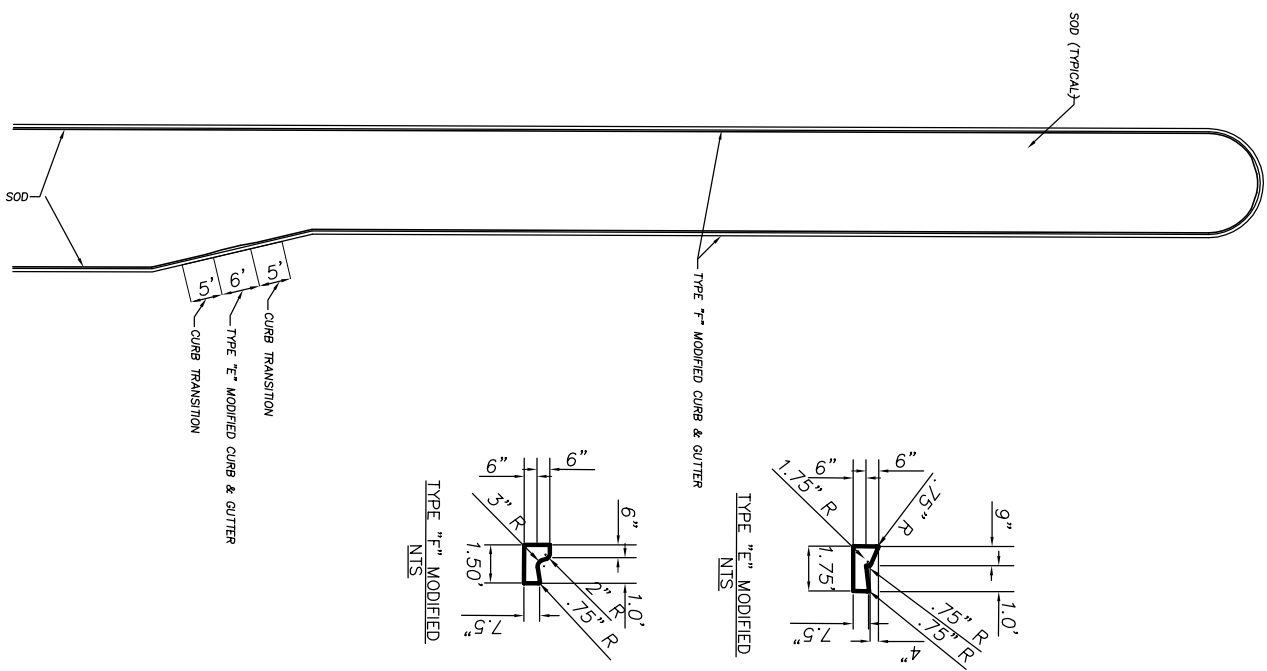
FRENCH DRAIN DATA		FRENCH DRAIN DATA	
TOTAL LENGTH	DEPTH – "D1"	TOTAL LENGTH	DEPTH – "D1"
S-100 TO S-102	3.60'	S-134 TO S-13	2.84'
S-102 TO S-111	2.75'	S-134 TO S-13	2.25'
S-111 TO S-111	2.75'	S-134 TO S-13	1.75'
S-111 TO S-111	2.75'	S-134 TO S-13	6.00'
S-111 TO S-111	2.75'	S-134 TO S-13	6.00'
S-111 TO S-111	2.75'	S-134 TO S-13	18.25'
S-111 TO S-111	2.75'	S-134 TO S-13	20.50'
S-111 TO S-111	2.75'	S-134 TO S-13	16.50'

FRENCH DRAIN DATA		FRENCH DRAIN DATA	
TOTAL LENGTH	DEPTH – "D1"	TOTAL LENGTH	DEPTH – "D1"
S-11A TO S-11	2.86'	S-1C	96'
S-11 TO S-11	2.75'	S-1C	2.75'
S-11 TO S-11	2.75'	S-1C	0.75'
S-11 TO S-11	2.75'	S-1C	0.75'
S-11 TO S-11	2.75'	S-1C	0.75'
S-11 TO S-11	2.75'	S-1C	18.25'
S-11 TO S-11	2.75'	S-1C	21.00'
S-11 TO S-11	2.75'	S-1C	17.50'



CONTROL STRUCTURE S-12 DETAIL

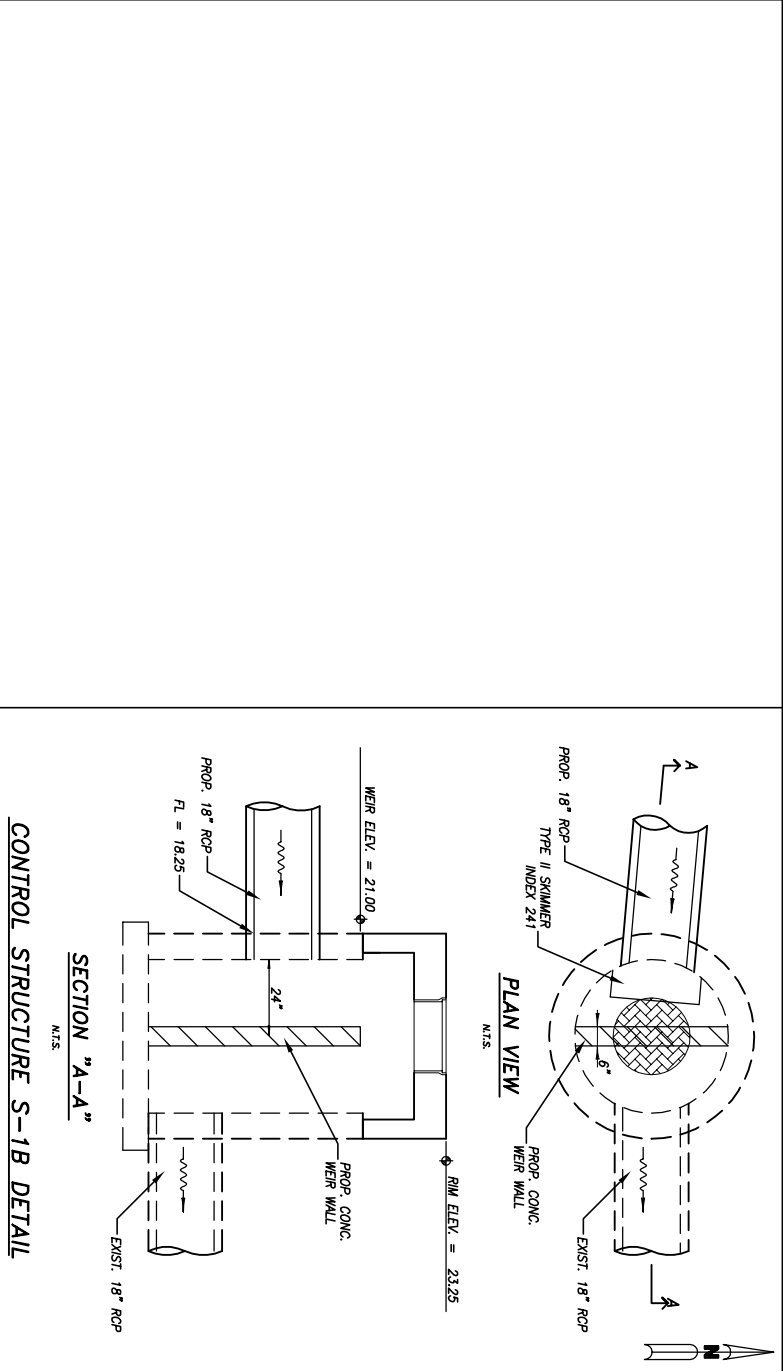




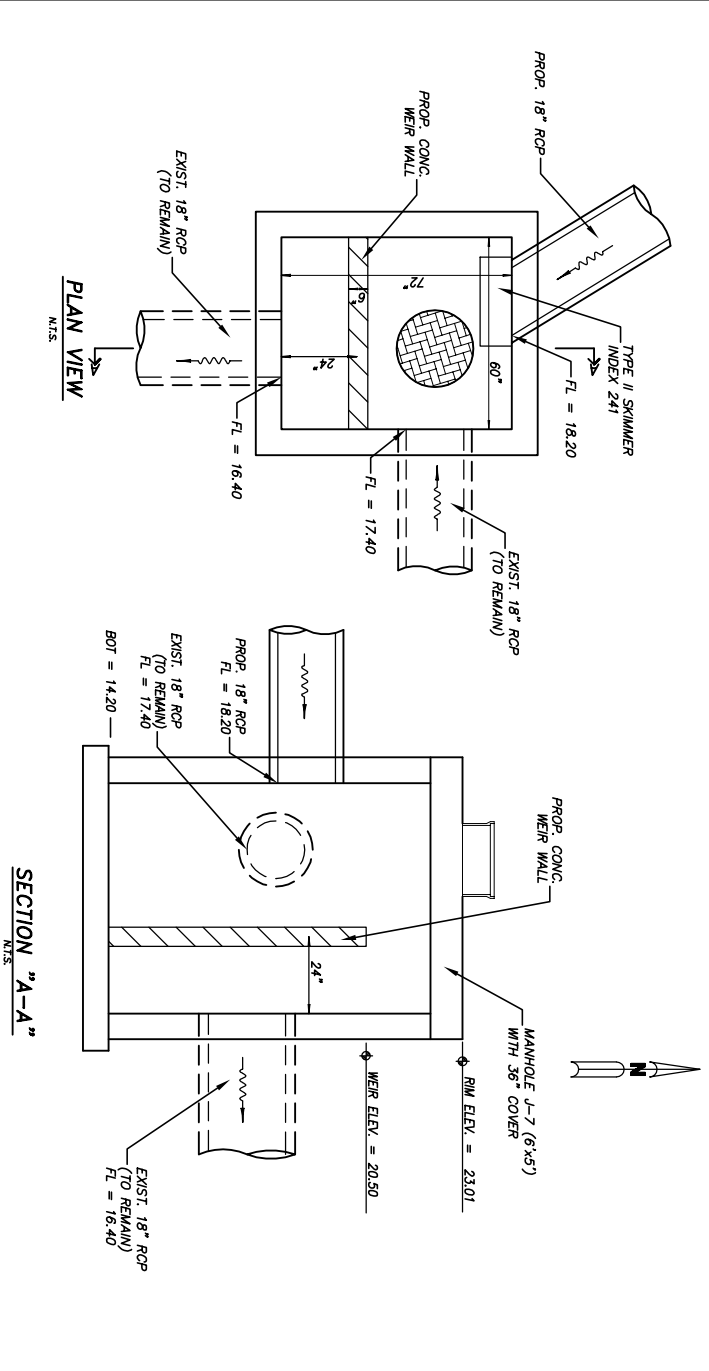
MODIFIED CURB FOR MOWER ACCESS

NOTES:

1. TO BE CONSTRUCTED AT ALL LEFT TURN LANES.

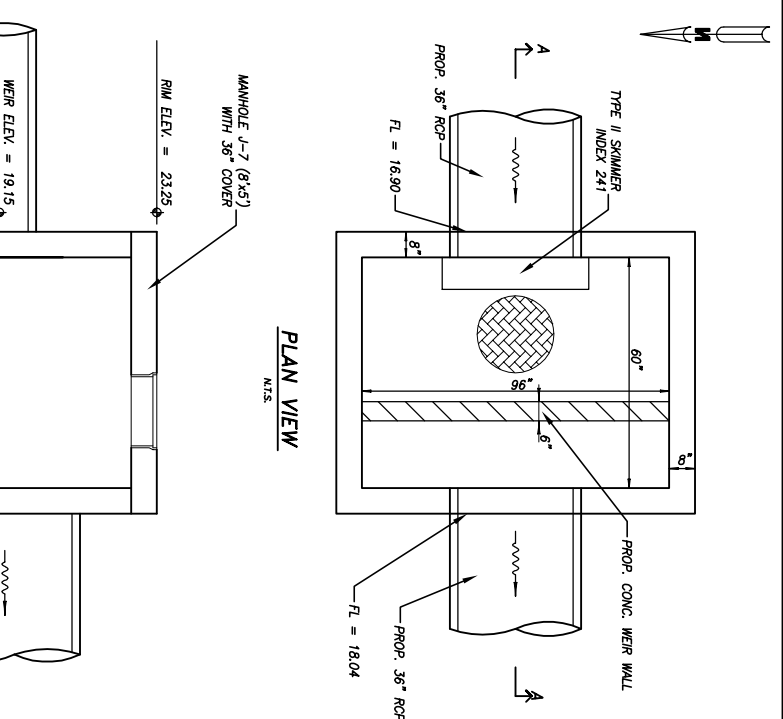


CONTROL STRUCTURE S-1B DETAIL

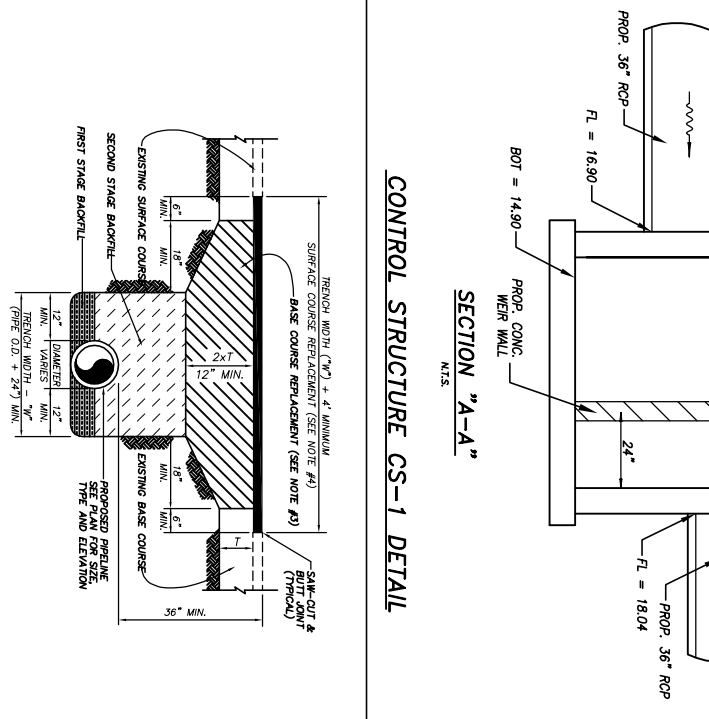


SECTION "A-A"

CONTROL STRUCTURE S-14 DETAIL



CONTROL STRUCTURE CS-1 DETAIL



CONTROL STRUCTURE CS-1 DETAIL

- NOTES:**
1. ALL WORK AND MATERIALS SHALL CONFORM WITH F.O.D.T. STANDARD SPECIFICATIONS, LATEST EDITION, AND ALL CONDITIONS OF THE R/W PERMIT ISSUED BY THE FLOID, COUNTY OR LOCAL ROAD AGENCY.
 2. ALL MATERIALS SHALL BE APPROVED BY THE FLOID, COUNTY OR LOCAL ROAD AGENCY.
 3. BASE REPLACEMENT OVER TRENCH SHALL BE THE THICKNESS OF THE EXISTING BASE COURSE. 3 EQUAL LITS OF 1/2" MAX COMPACTED THICKNESS AND COMPACTED TO 98% OF THE ASTM D-1557 STANDARD SPECIFICATION FOR DRY UNIT WEIGHT OF GRANULAR SOILS SHALL BE USED FOR THE BASE COURSE REPLACEMENT. SURFACE COURSE REPLACEMENT SHALL MATCH THE THICKNESS AND TYPE OF MATERIAL(S) OF THE EXISTING PAVEMENT, AS A MINIMUM, PROVIDE 2" OF TYPE SP 12.5 ASPHALTIC CONCRETE.
 4. SURFACE COURSE REPLACEMENT SHALL MATCH THE THICKNESS AND TYPE OF MATERIAL(S) OF THE EXISTING PAVEMENT, AS A MINIMUM, PROVIDE 2" OF TYPE SP 12.5 ASPHALTIC CONCRETE.

OPEN-CUT PAVEMENT REPAIR DETAIL

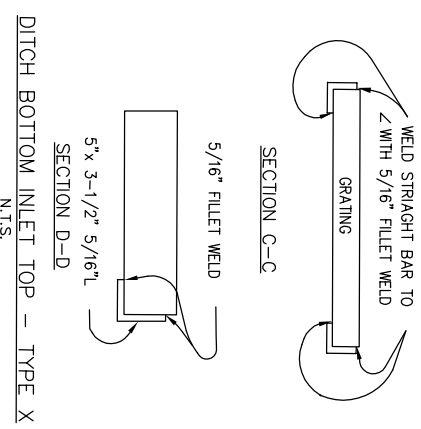
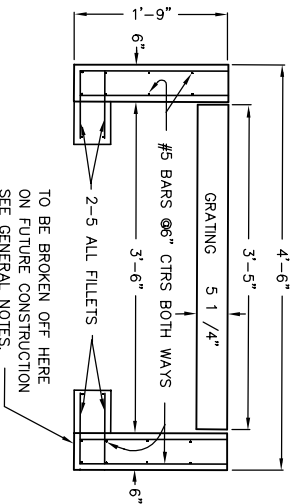
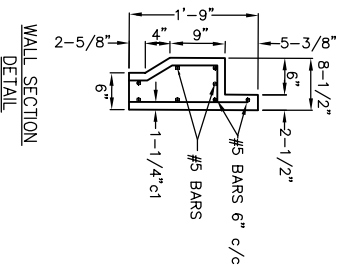
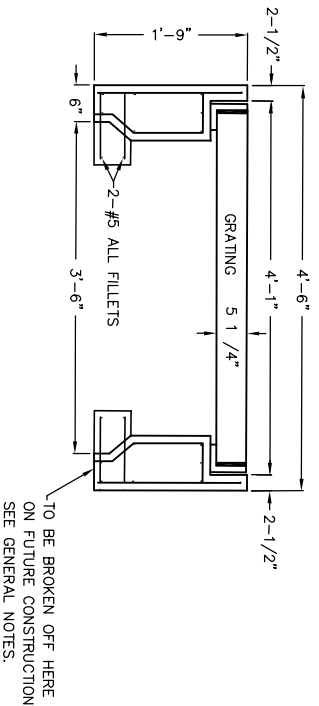
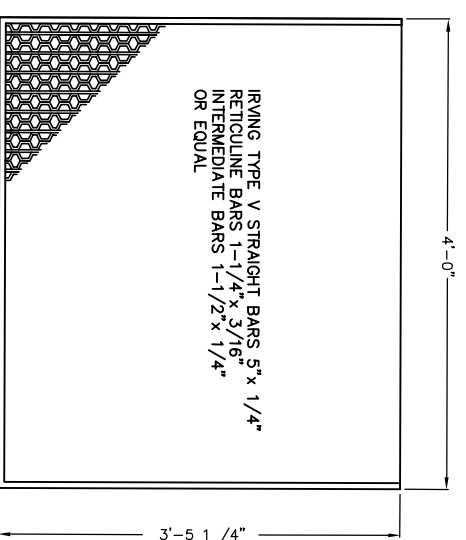
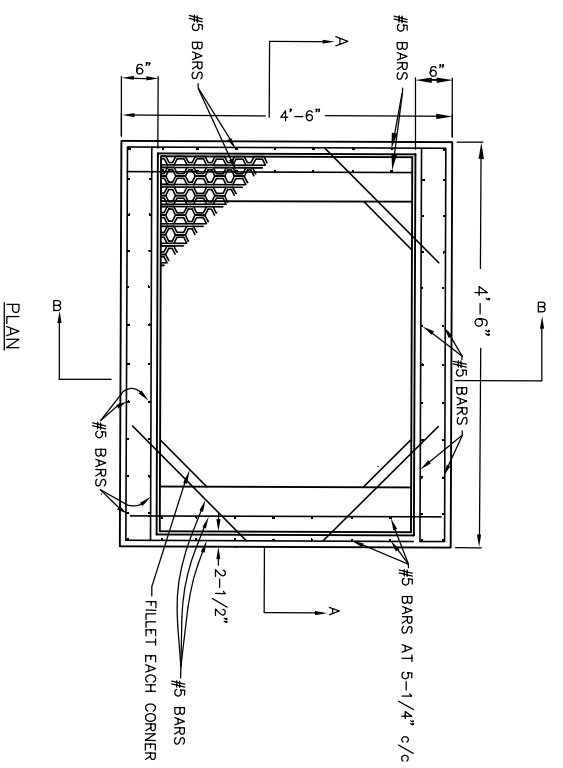
No:	Revision:	By:	Date:

INDIAN RIVER COUNTY
 Department of Public Works
 Engineering Division

Scale:	N.T.S.
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Project: **DETAILS FOR SR 60 & 43RD AVENUE**

Sheet:	21
Of:	99
Project No.:	LNW# WP1027




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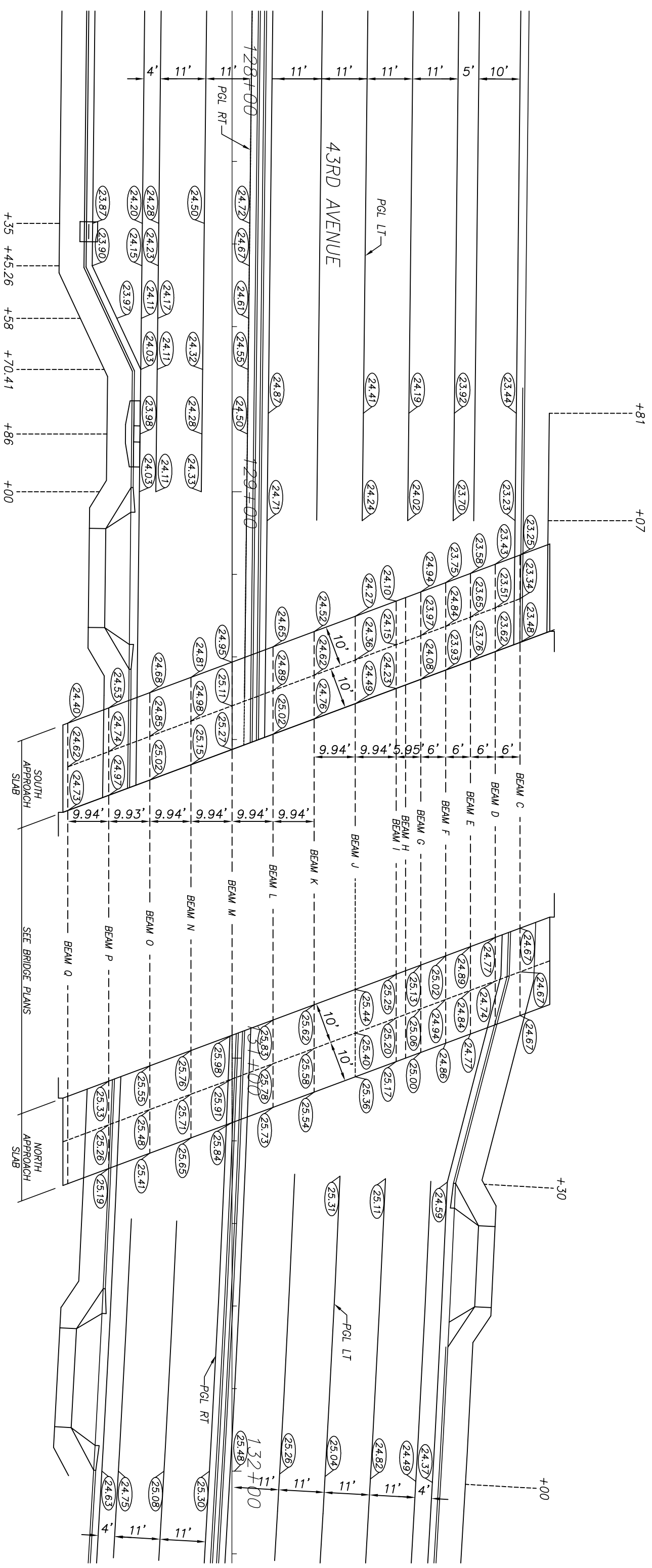
No:	Revision:	By:	Date:


Department of Public Works
Engineering Division

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Project:
DETAILS
FOR
SR 60 & 43RD AVENUE

Sheet:	21A
Of:	99
Project No.:	
LNW#:	WP1027




SPECIAL GRADING DETAIL
NTS

NOTE: ALL ELEVATIONS SHOWN ARE FINISHED GRADE

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Department of Public Works
Engineering Division

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 Date: 6/2017
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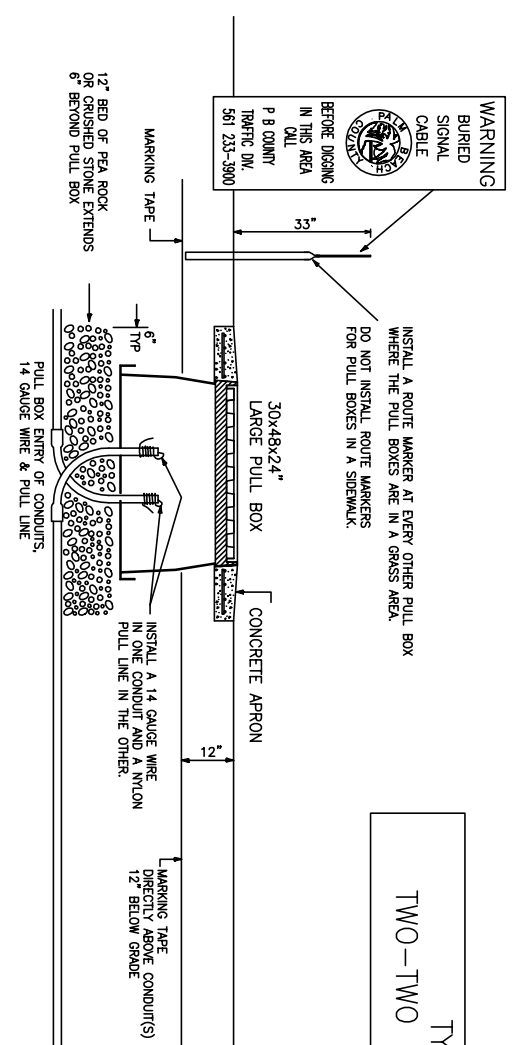
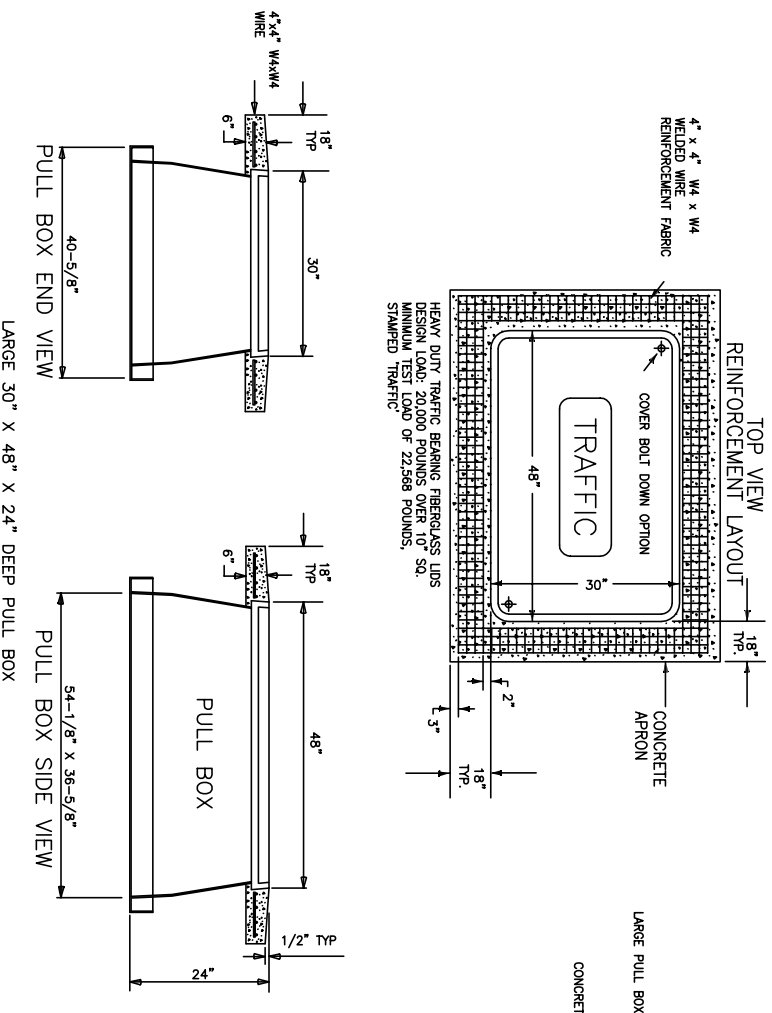
Project: **DETAILS FOR SR 60 & 43RD AVENUE**

Sheet: 22
 Of: 99
 Project No: LNW# WP1027

No:	Revision:	By:	Date:

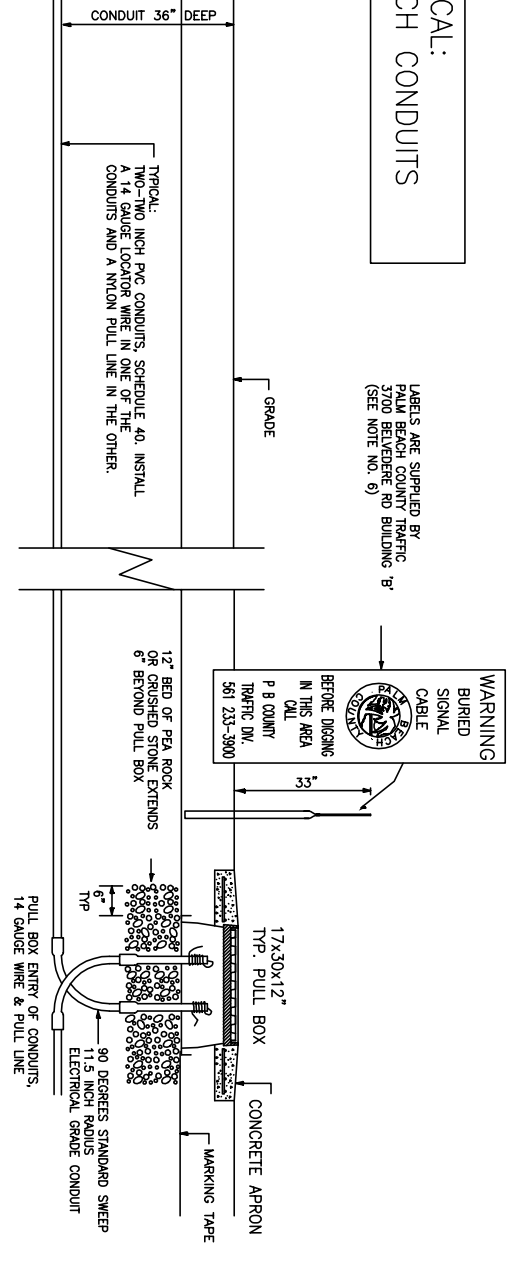
Scale:	N.T.S.
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- NOTES:**
- For applications not covered in this typical the contractor shall refer to the FDOT Standard Specifications for Road and Bridge Construction.
 - All pull boxes and lids shall be Heavy Duty Traffic Bearing Fiberglass Composite (Rated 20,000 pounds over ten inch square). Pull box lids shall be stamped "TRAFFIC".
 - Ends of conduit shall be sealed in accordance with Section 630 (Conduit) of the FDOT Standard Specifications for Road and Bridge Construction.
 - One run of conduit (between pull boxes) shall not contain more than 360 degrees of bend including pull box bends.
 - Marking Tape: 3 inches wide marked "CAUTION TRAFFIC SIGNAL CABLE BURIED BELOW". Tape shall be orange with black 2 inches high block letters on non color fading material. The marking tape shall be continuous from pull box to pull box.
 - Palm Beach County Traffic Operations, 3700 Belvedere Rd., 561-233-3900, will supply the Contractor with warning labels for the route markers. The Contractor shall install one warning labels per marker.

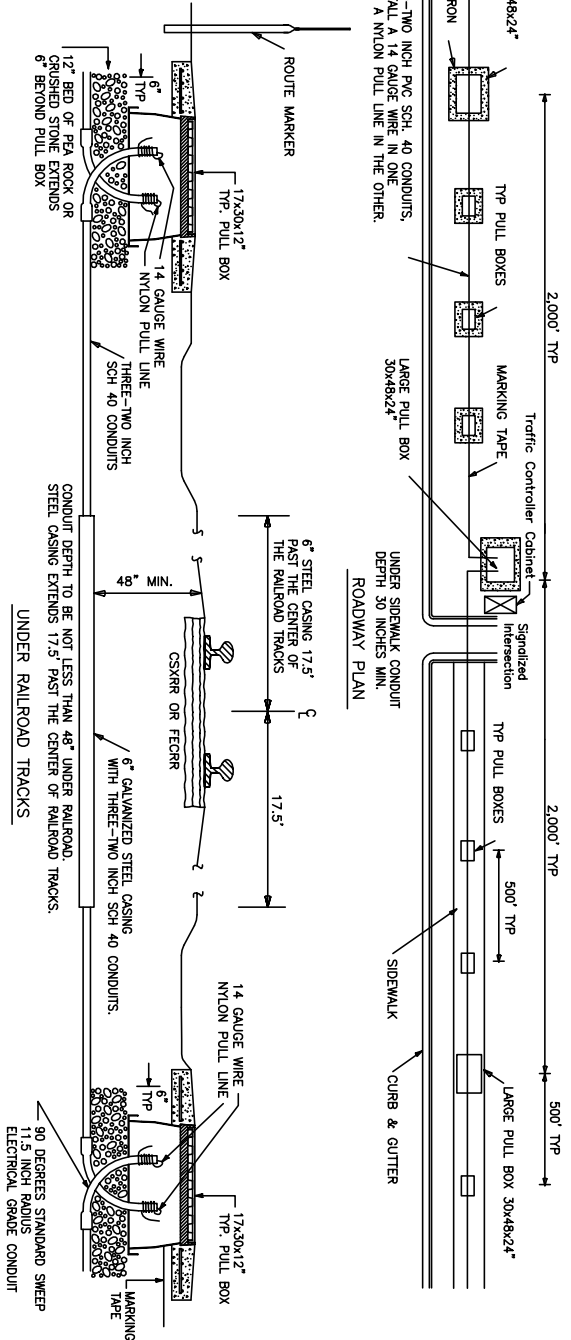


TYPICAL:
 TWO-TWO INCH CONDUITS

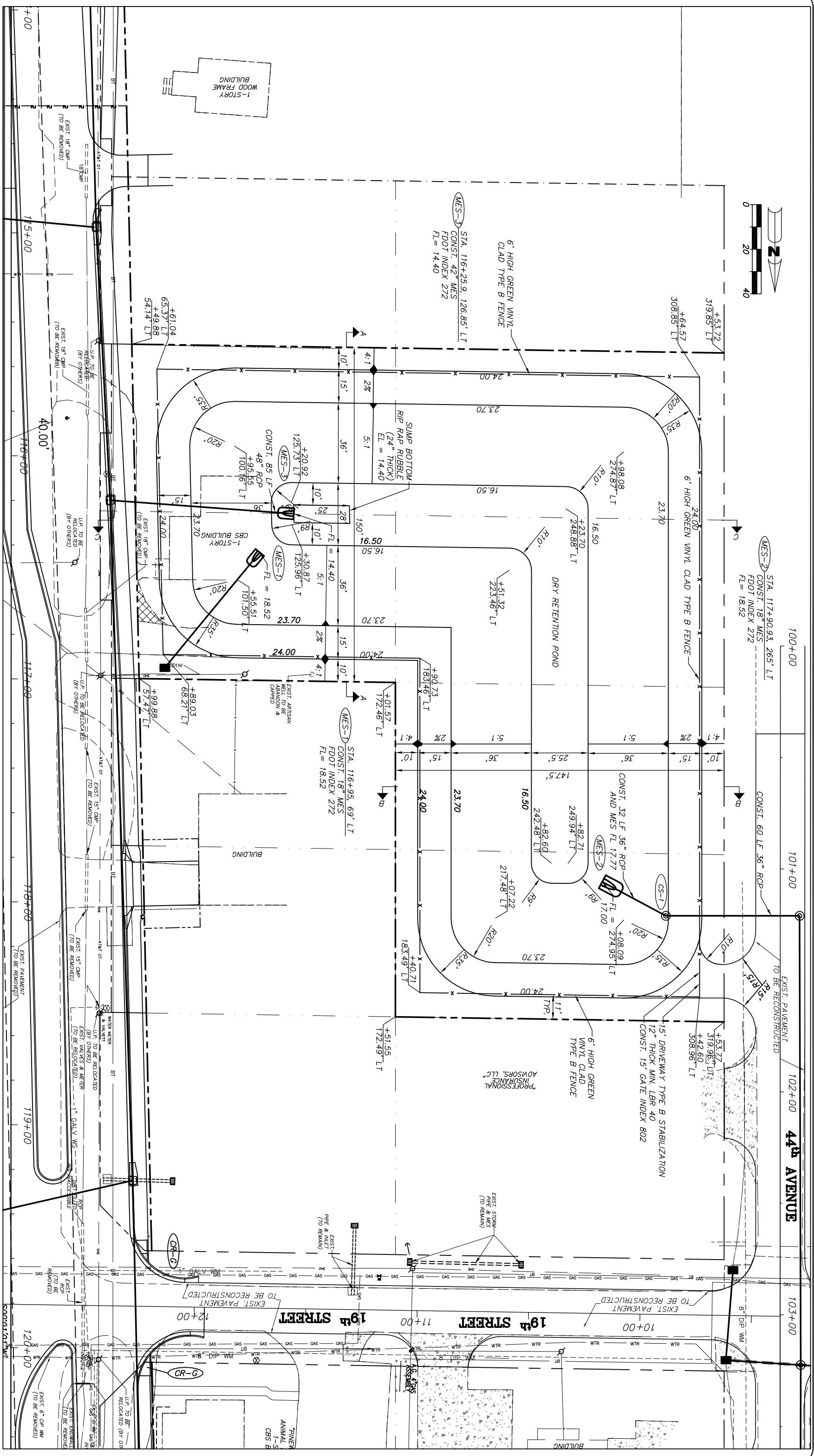
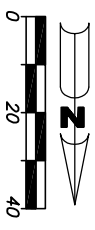
Labels are supplied by Palm Beach County Traffic (See Note No. 6)




A TYPICAL PULL BOX (17X30X12" DEEP) SHALL BE INSTALLED AT PLUS OR MINUS 500' INTERVALS. A LARGE PULL BOX (30X48X24" DEEP) SHALL BE INSTALLED AT 2000' INTERVALS AND NEAR EACH TRAFFIC SIGNAL CONTROLLER CABINET, OR AS INDICATED ON THE PLANS. AT THESE LOCATIONS, THE LARGE PULL BOX TAKES THE PLACE OF THE TYPICAL PULL BOX.




- NOTES:**
- A 14 gauge insulated strand copper wire shall be installed in one of the conduits.
 - A nylon pull line shall be installed in the other conduit.
 - All pull boxes (not installed in a sidewalk) shall have an 18" wide x 6" thick concrete apron sloped away from pull box. The apron shall be 3,000 psi (Class II) and have 4x4 W4x4 welded wire reinforcement fabric.
 - The cost of the apron is to be included in the cost of each furnish / install pull box.
 - Do not install a pull box within four feet of a public sidewalk curb ramp.




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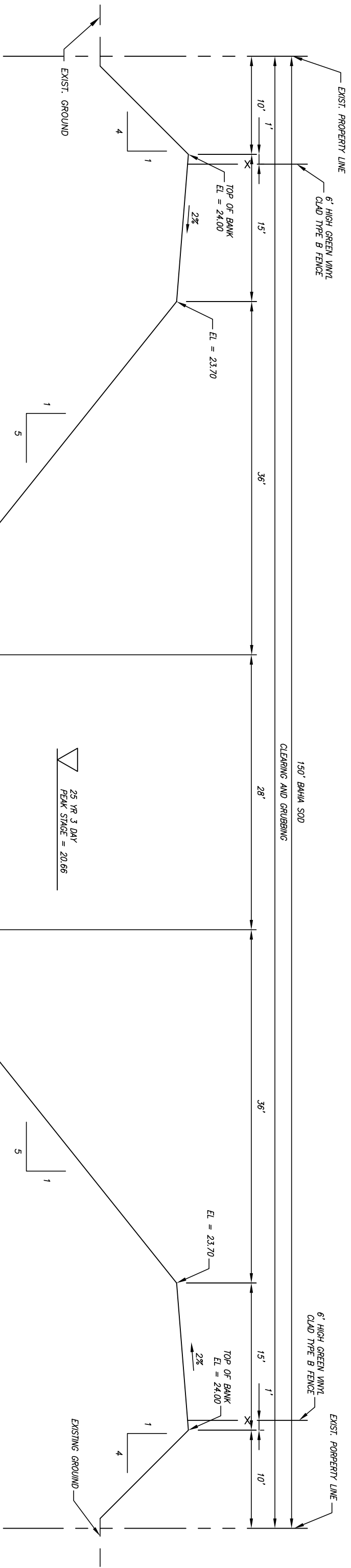

Department of Public Works
Engineering Division

Scale: 1" = 40'

Approved:	HWD
Drawn:	FM
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Date:	6/2017
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Project: **PLAN SHEETS FOR SR 60 & 43RD AVENUE**


Sheet:	24
Of:	99
Project No.:	LNW# WP1027



RETENTION AREA #1
SECTION A-A

No:	Revision:	By:	Date:
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No:	Revision:	By:	Date:
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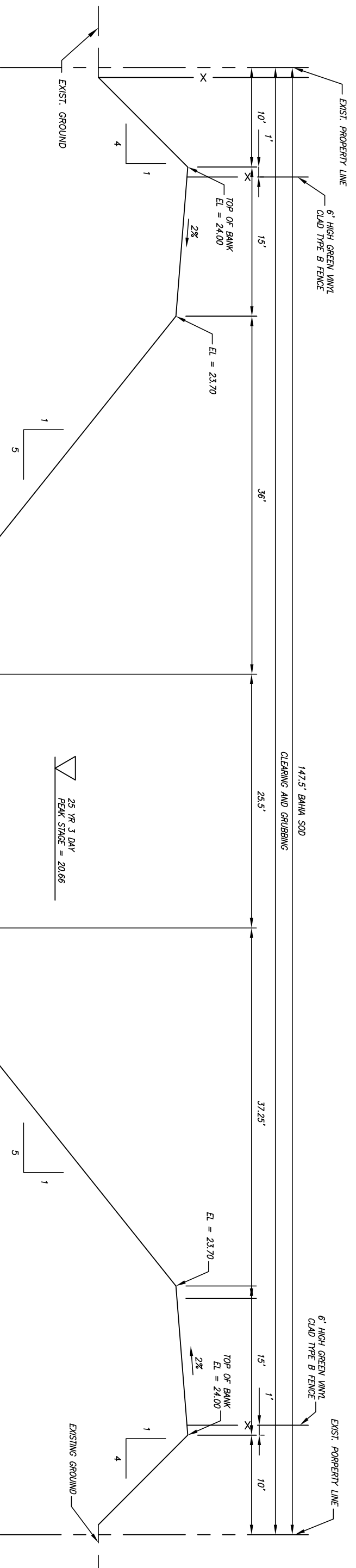


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Project: **DETAILS FOR SR 60 & 43RD AVENUE**


Sheet:	25
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Project No.:	
LNW#:	WP1027



RETENTION AREA #1
SECTION B-B

GB310 / LC28000289
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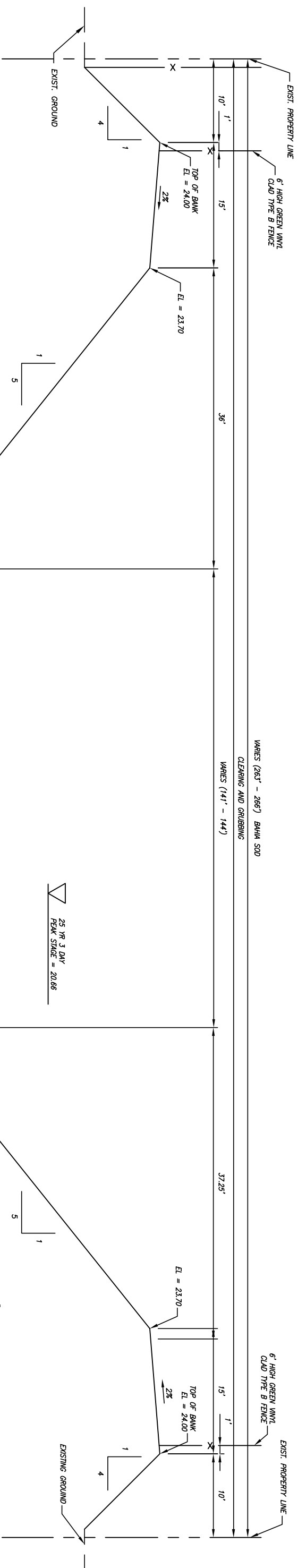

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Engineering Division

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Project: **SR 60 & 43RD AVENUE**


DETAILS
FOR

Sheet: 26
Of: 99
Project No. LNW# MP1027



RETENTION AREA #1
SECTION C-C

No:	Revision:	By:	Date:


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Engineering Division

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Project: **DETAILS**
FOR
SR 60 & 43RD AVENUE

Sheet:	27
Of:	99
Project No.:	
LNW#	WP1027

UTILITY MATRIX

STATION	OFFSET	UTILITY	CONFLICT	DISPOSITION	REMARK
UTILITY POLES					
109+86	39.00 LT	EXIST. U.P.	PROP. SIDEWALK	RELOCATED BY OTHERS	
10+11	26.00 RT	EXIST. U.P.	PROP. PAVEMENT	RELOCATED BY OTHERS	
107+76	39.00 LT	EXIST. U.P.	PROP. SIDEWALK	RELOCATED BY OTHERS	
12+20	39.00 LT	EXIST. U.P.	PROP. CURB	RELOCATED BY OTHERS	
12+24	25.50 RT	EXIST. U.P.	PROP. PAVEMENT	RELOCATED BY OTHERS	
13+42	40.00 LT	EXIST. U.P.	PROP. CURB	RELOCATED BY OTHERS	
13+59	26.00 RT	EXIST. U.P.	PROP. PAVEMENT	RELOCATED BY OTHERS	
15+48	40.00 LT	EXIST. U.P.	PROP. PAVEMENT	RELOCATED BY OTHERS	
16+48	29.00 LT	EXIST. U.P.	PROP. PAVEMENT	RELOCATED BY OTHERS	
16+49	25.00 RT	EXIST. U.P.	PROP. PAVEMENT	RELOCATED BY OTHERS	
16+98	40.00 LT	EXIST. U.P.	PROP. PAVEMENT	RELOCATED BY OTHERS	
18+48	32.00 RT	EXIST. U.P.	PROP. SIDEWALK	RELOCATED BY OTHERS	
18+50	40.00 LT	EXIST. U.P.	PROP. PAVEMENT	RELOCATED BY OTHERS	
19+64	38.00 RT	EXIST. U.P.	PROP. CURB	RELOCATED BY OTHERS	
20+06	40.00 LT	EXIST. U.P.	PROP. PAVEMENT	RELOCATED BY OTHERS	
20+80	39.00 LT	EXIST. U.P.	PROP. PAVEMENT	RELOCATED BY OTHERS	
20+84	50.00 LT	EXIST. L.P.	PROP. PAVEMENT	TO BE REMOVED	
22+44	40.00 LT	EXIST. U.P.	PROP. PAVEMENT	RELOCATED BY OTHERS	
22+98	58.00 LT	EXIST. L.P.	PROP. PAVEMENT	TO BE REMOVED	
23+68	38.00 RT	EXIST. U.P.	PROP. SIDEWALK	RELOCATED BY OTHERS	
26+31	44.00 LT	EXIST. SIGNAL POLE	PROP. PAVEMENT	TO BE REMOVED	
26+35	43.00 RT	EXIST. U.P.	PROP. PAVEMENT	RELOCATED BY OTHERS	
27+43	36.00 LT	EXIST. SIGNAL POLE	PROP. PAVEMENT	TO BE REMOVED	
27+48	30.00 RT	EXIST. U.P.	PROP. PAVEMENT	RELOCATED BY OTHERS	
27+61	34.00 RT	EXIST. U.P.	PROP. PAVEMENT	RELOCATED BY OTHERS	
27+65	34.00 RT	EXIST. U.P.	PROP. PAVEMENT	RELOCATED BY OTHERS	
28+41	54.00 LT	EXIST. U.P.	PROP. PAVEMENT	RELOCATED BY OTHERS	
31+81	51.00 LT	EXIST. L.P.	PROP. CURB	RELOCATED BY OTHERS	
32+01	41.00 LT	EXIST. U.P.	PROP. PAVEMENT	RELOCATED BY OTHERS	
32+90	40.00 LT	EXIST. U.P.	PROP. PAVEMENT	RELOCATED BY OTHERS	
34+10	42.00 LT	EXIST. U.P.	PROP. SIDEWALK	RELOCATED BY OTHERS	
GAS					
10+21	37.00 RT	GAS MAIN	PROP. INLET	RELOCATED BY FLORIDA CITY GAS	
10+25	21.00' RT	GAS MAIN	PROP. 18" RCP	RELOCATE UNDER STORM BY FLORIDA CITY GAS	
12+30	21.00 RT	GAS MAIN	PROP. 18" RCP	RELOCATE UNDER STORM BY FLORIDA CITY GAS	
14+90	21.00 RT	GAS MAIN	PROP. 18" RCP	RELOCATE UNDER STORM BY FLORIDA CITY GAS	
19+43	21.00 RT	GAS MAIN	PROP. 18" RCP	RELOCATE UNDER STORM BY FLORIDA CITY GAS	
19+67	55.00 LT	EXIST. GAS MAIN	PROP. 24" RCP	RELOCATE UNDER STORM BY FLORIDA CITY GAS	
19+98	57.00 LT	EXIST. GAS MAIN	PROP. 24" RCP	ABANDON BY FLORIDA CITY GAS	
20+04	57.00 LT	PROP. GAS MAIN	PROP. 24" RCP	INSTALL NEW LINE UNDER STORM BY FLORIDA CITY GAS	
20+80	55.00 LT	GAS MAIN	PROP. 18" RCP	INSTALL NEW LINE UNDER STORM BY FLORIDA CITY GAS	
20+80	36.00 LT	GAS MAIN	PROP. 18" RCP	ABANDON BY FLORIDA CITY GAS	
20+85	58.00 LT	EXIST. GAS MAIN	PROP. 24" RCP	INSTALL NEW LINE UNDER STORM BY FLORIDA CITY GAS	

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ARCADIS U.S., INC.

1500 GATEWAY BLVD., SUITE 200, BOYNTON BEACH, FL 33426
(561) 697-7000, FAX (561) 369-4731

7917 / LB 7062

NO.	REVISION	BY / DATE

Department of Public Works
Engineering Division

SCALE: 1" = 40'
APPROVED, B.F.
DRAWN, H.D.
CHECKED, H.D.
DATE: 6/2017
FIELD BOOK NO.


DETAILS
FOR
SR 60 & 43RD AVENUE

SHEET 27A
OF 99
PROJECT NO. A1027
IRC-10B-NO.

UTILITY MATRIX

STATION	OFFSET	UTILITY	CONFLICT	DISPOSITION	REMARK
123+36	40.00 LT	GAS MAIN	PROP. 18" RCP	ABANDON BY FLORIDA CITY GAS	
123+41	57.00 LT	GAS MAIN	PROP. 18" RCP	INSTALL NEW LINE UNDER STORM BY FLORIDA CITY GAS	
124+45	60.00 LT	GAS MAIN	PROP. 18" RCP	INSTALL NEW LINE UNDER STORM BY FLORIDA CITY GAS	
WATER					
120+03	56.00 LT	PROP. 8" WM	PROP. 24" RCP	INSTALL NEW 8" WL BY DIRECTIONAL DRILL	MAINTAIN 12" MIN. VERTICAL SEPARATION
123+23	42.00 RT	PROP. 8" WM	PROP. INLET	NEW LINE EAST OF INLET	MAINTAIN 3' MIN. SEPARATION BEHIND INLET
125+40	45.00 RT	EXIST. 8" DI WM	PROP. INLET	NEW LINE EAST OF INLET	MAINTAIN 3' MIN. SEPARATION BEHIND INLET
129+00	44.00 LT	EX. 12" WM	PROP. 18" RCP	WM REMOVED	MAINTAIN 3' MIN. SEPARATION BEHIND INLET
132+95	50.00 LT	PROP. 2" HDPE	PROP. 18" RCP	INSTALL WATERLINE UNDER STORM	MAINTAIN 12" MIN. VERTICAL SEPARATION
133+16	48.00 RT	PROP. 12" WM	PROP. INLET	INSTALL 12" WM UNDER STORM	MAINTAIN 3' MIN. SEPARATION BEHIND INLET
133+75	44.00 RT	PROP. 2" HDPE	PROP. 18" RCP	INSTALL WATERLINE UNDER STORM	MAINTAIN 12" MIN. VERTICAL SEPARATION
135+55	53.00 RT	PROP. 8" WM	PROP. 24" RCP	INSTALL 8" WM UNDER STORM	MAINTAIN 12" MIN. VERTICAL SEPARATION
138+60	42.00 RT	PROP. 6" WM	PROP. 24" RCP	INSTALL 6" WM UNDER STORM	MAINTAIN 12" MIN. VERTICAL SEPARATION
143+95	53.00 RT	PROP. 12" WM	PROP. 42" RCP	INSTALL 12" WM UNDER STORM	MAINTAIN 12" MIN. VERTICAL SEPARATION
148+13	38.00 RT	PROP. 2" WM	18" RCP	INSTALL NEW SERVICE UNDER STORM	MAINTAIN 12" MIN. VERTICAL SEPARATION
SEWER					
110+25	33.00 RT	EXIST. 2" FM	PROP. 18" RCP	NEW 2" FM OVER 18" RCP	
112+30	43.00 RT	EXIST. 2" FM	PROP. 18" RCP	NEW 2" FM OVER 18" RCP	
114+90	32.00 RT	EXIST. 8" FM	PROP. 18" RCP	POT HOLE/LOWER IF NECESSARY	
119+42	30.00 RT	EXIST. 8" FM	PROP. 18" RCP	POT HOLE/LOWER IF NECESSARY	
120+80	23.00 RT	EXIST. 8" SAN.	PROP. INLET	CHANGED TO PI INLET AND LOWERED PROP. 18" RCP	
123+23	32.00 LT	EXIST. 3" FM	PROP. 18" RCP	GROUT AND ABANDON	
123+23	29.00 RT	EXIST. 8" FM	PROP. 18" RCP	8" FM UNDER 18" RCP	
123+23	23.00 RT	EXIST. 6" SAN.	PROP. 18" RCP	STORM UNDER 6" SANITARY	
125+41	26.00 RT	EXIST. 8" FM	PROP. 18" RCP	POT HOLE/LOWER IF NECESSARY	
128+74	27.00 RT	EXIST. 6" FM	PROP. 18" RCP	18" UNDER 6" FM	
128+86	21.00 RT	EXIST. 8" FM	PROP. 18" RCP/INLET	POT HOLE/LOWER IF NECESSARY	
132+90	22.00 RT	EXIST. 8" FM	PROP. 18" RCP	REMOVE AND INSTALL NEW 8" FM	
135+06	22.00 RT	EXIST. 8" FM	PROP. 18" RCP	REMOVE 8" FM	
137+37	22.00 RT	EXIST. 8" FM	PROP. 18" RCP	REMOVE 8" FM	
139+80	22.00 RT	EXIST. 8" FM	PROP. 18" RCP	REMOVE 8" FM	
140+38	38.00 RT	EXIST. 4" FM	PROP. 30" RCP	4" FM UNDER 30" RCP	
141+80	22.00 RT	EXIST. 8" FM	PROP. 18" RCP	REMOVE 8" FM	
143+95	59.00 RT	EXIST. 8" FM	PROP. 42" RCP	8" FM UNDER 42" STORM	
147+70	23.00 RT	EXIST. 8" FM	PROP. 18" RCP	REMOVE 8" FM	
151+76	23.00 RT	EXIST. 8" FM	PROP. 18" RCP	REMOVE 8" FM	
CABLE					
116+20	46.00 LT	EXIST. BT CABLE	PROP. INLET	TO BE PLACED OUT OF SERVICE	
119+27	46.00 LT	EXIST. BT CABLE	PROP. 18" RCP	TO BE PLACED OUT OF SERVICE	
120+80	46.00 LT	EXIST. BT CABLE	PROP. 18" RCP	TO BE PLACED OUT OF SERVICE	
125+42	39.00 RT	EXIST. BT CABLE	PROP. 18" RCP & DBI	TO BE PLACED OUT OF SERVICE	
128+30	34.00 RT	EXIST. BT CABLE	PROP. INLET	TO BE PLACED OUT OF SERVICE	
132+90	41.00 LT	EXIST. BT CABLE	PROP. INLET	TO BE PLACED OUT OF SERVICE	


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7917 / LB 7062

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*Department of Public Works
Engineering Division*

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 APPROVED, **B.F.**
 DRAWN, **H.D.**
 CHECKED, **H.D.**
 DATE: 6/2017
 FIELD BOOK NO.


**DETAILS
FOR
SR 60 & 43RD AVENUE**

SHEET: 27B
 OF 99
 PROJECT NO. A1027
 ITC-108-NO.

UTILITY MATRIX

STATION	OFFSET	UTILITY	CONFLICT	DISPOSITION	REMARK
133+07	29.00 RT	EXIST. BT CABLE	PROP. 18" RCP	TO BE PLACED OUT OF SERVICE	
135+13	29.00 RT	EXIST. BT CABLE	PROP. 18" RCP	TO BE PLACED OUT OF SERVICE	
137+38	29.00 RT	EXIST. BT CABLE	PROP. 18" RCP	TO BE PLACED OUT OF SERVICE	
139+81	29.00 RT	EXIST. BT CABLE	PROP. 18" RCP	TO BE PLACED OUT OF SERVICE	
141+80	29.00 RT	EXIST. BT CABLE	PROP. 18" RCP	TO BE PLACED OUT OF SERVICE	
147+70	29.00 RT	EXIST. BT CABLE	PROP. 18" RCP	TO BE PLACED OUT OF SERVICE	
151+76	29.00 RT	EXIST. BT CABLE	PROP. 18" RCP	TO BE PLACED OUT OF SERVICE	
126+34	70.00 LT	EXIST. BT MANHOLE	PROP. PAVEMENT	TO BE ADJUSTED TO PROPOSED GRADE	
126+43	52.00 RT	EXIST. BT MANHOLE	PROP. PAVEMENT	TO BE ADJUSTED TO PROPOSED GRADE	
126+94	70.00 LT	EXIST. BT MANHOLE	PROP. PAVEMENT	TO BE ADJUSTED TO PROPOSED GRADE	
132+95	32.00 RT	EXIST. BT MANHOLE	PROP. 18" RCP	NOT A BT MANHOLE	
LIGHT POLES					
2638+12	25.00 LT	EXIST. L.P.	PROP. CURB	TO BE REMOVED BY OTHERS	
2639+70	22.00 LT	EXIST. L.P.	PROP. FRENCH DRAIN	TO BE REMOVED BY OTHERS	
2639+98	83.00 RT	EXIST. L.P.	PROP. INLET	TO BE REMOVED AND RETURNED TO OWNER	
2640+68	83.00 RT	EXIST. L.P.	PROP. CURB & GUTTER	TO BE REMOVED AND RETURNED TO OWNER	
2641+24	21.00 LT	EXIST. L.P.	PROP. CURB & GUTTER	TO BE REMOVED	
2647+67	41.00 LT	EXIST. L.P.	PROP. CURB & GUTTER	TO BE REMOVED AND RETURNED TO OWNER	
2648+26	41.00 LT	EXIST. L.P.	PROP. CURB & GUTTER	TO BE REMOVED AND RETURNED TO OWNER	
2649+07	43.00 LT	EXIST. L.P.	PROP. SIDEWALK	TO BE REMOVED AND RETURNED TO OWNER	
2650+08	40.00 LT	EXIST. L.P.	PROP. INLET	TO BE REMOVED AND RETURNED TO OWNER	
2652+18	41.00 LT	EXIST. L.P.	PROP. FRENCH DRAIN	TO BE REMOVED AND RETURNED TO OWNER	
UTILITY POLES					
2638+06	27.00 LT	EXIST. U.P.	PROP. SIDEWALK	TO REMAIN	
2639+71	79.00 RT	EXIST. U.P.	PROP. PAVEMENT	TO BE REMOVED BY OTHERS	
2644+34	67.00 RT	EXIST. U.P.	PROP. SIDEWALK	TO REMAIN	
2646+31	32.00 LT	EXIST. U.P.	PROP. PAVEMENT	TO BE REMOVED BY OTHERS	
2647+08	68.00 RT	EXIST. U.P.	PROP. SIDEWALK	TO REMAIN LUMINAIRE TO BE REMOVED	
2650+83	34.00 LT	EXIST. U.P.	PROP. PAVEMENT	TO BE REMOVED BY OTHERS	
2650+87	66.00 RT	EXIST. U.P.	PROP. SIDEWALK	TO REMAIN LUMINAIRE TO BE REMOVED	
2654+71	67.00 RT	EXIST. U.P.	PROP. SIDEWALK	TO REMAIN LUMINAIRE TO BE REMOVED	
2658+57	32.00 LT	EXIST. U.P.	PROP. FENCH DRAIN & 18" RCP	TO BE RELOCATED BY OTHERS	
CABLE					
2636+67	75.00 RT	EXIST. BT DUCT	PROP. SIDEWALK	TO REMAIN	
2636+92	25.00 RT	EXIST. BT MANHOLE	PROP. PAVEMENT	TO BE ADJUSTED TO PROPOSED GRADE	
2639+26	81.00 RT	EXIST. BT DUCT	PROP. 18" RCP	TO REMAIN	
2642+24	25.00 RT	EXIST. BT MANHOLE	PROP. PAVEMENT	TO BE ADJUSTED TO PROPOSED GRADE	
2647+10	14.00 RT	EXIST. BT MANHOLE	PROP. PAVEMENT	TO BE ADJUSTED TO PROPOSED GRADE	
2647+31	61.00 RT	EXIST. BT MANHOLE	PROP. SIDEWALK	TO BE ADJUSTED TO PROPOSED GRADE	
2649+31	63.00 RT	EXIST. BT MANHOLE	PROP. SIDEWALK	TO BE ADJUSTED TO PROPOSED GRADE	
2654+63	14.00 RT	EXIST. BT MANHOLE	PROP. PAVEMENT	TO BE ADJUSTED TO PROPOSED GRADE	
2654+89	53.00 RT	EXIST. BT MANHOLE	PROP. PAVEMENT	TO BE ADJUSTED TO PROPOSED GRADE	

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7917 / LB 7062

NO.	REVISION	BY	DATE



*Department of Public Works
Engineering Division*

SCALE: 1" = 40'
APPROVED, B.F.
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CHECKED, H.D.
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FIELD BOOK NO.

DETAILS FOR SR 60 & 43RD AVENUE

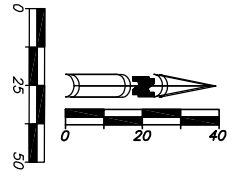
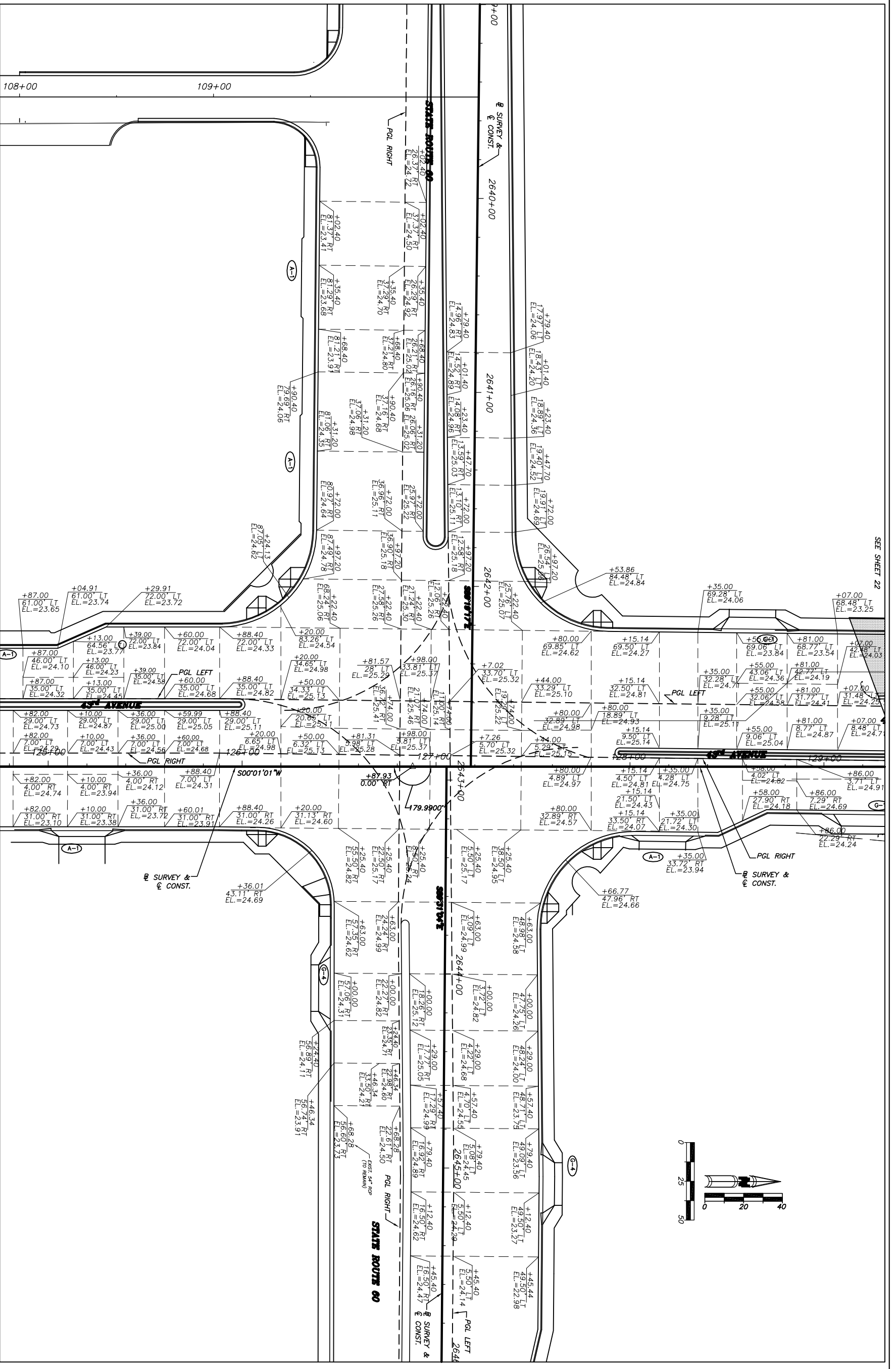
SHEET 270
OF 99
PROJECT NO. A1027
IRC-10B-NO.

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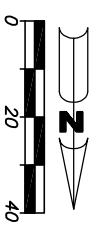
Scale:	1" = 50'
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Date:	6/2017
Field Book No.:	

Project:
INTERSECTION PLATEAU GRADING
FOR
SR 60 & 43RD AVENUE

Sheet:	28
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SEE SHEET 22

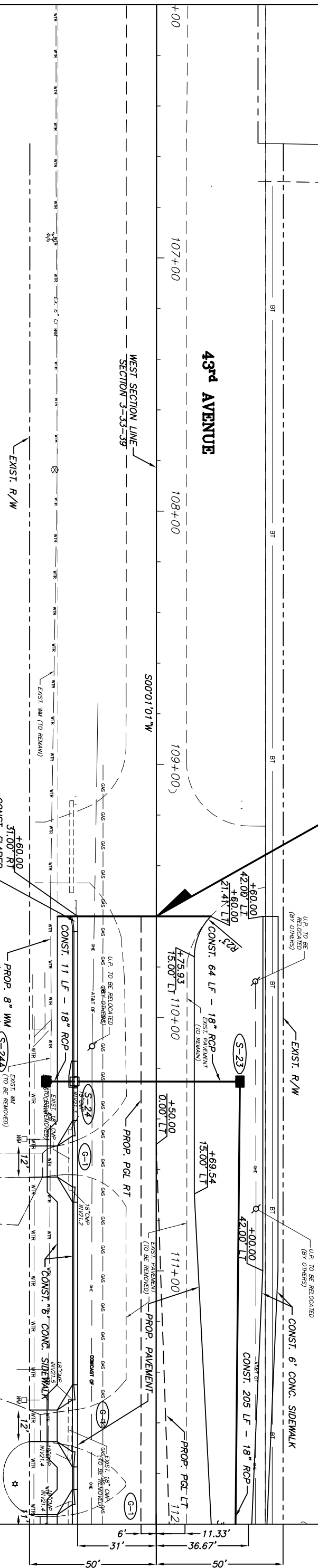


**BEGIN PROJECT STA. 109+60.00
SAWCUT & BUTT JOINT. MATCH
EXIST. PAVEMENT**

(S-23) STA. 110+25.21, 33.00' LT
CONST DBI TYPE E
FDOT INDEX 200, 201 & 232
GR = 19.50
FL = 15.50 N E
BOT = 13.50

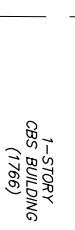
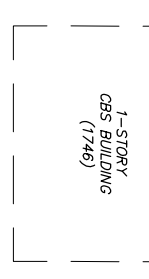
43rd AVENUE

WEST SECTION LINE
SECTION 3-33-39




(S-24A) STA. 110+25.21, 43.50' RT
CONST DBI TYPE C
FDOT INDEX 200, 201 & 232
GR = 22.80
FL = 19.60 W
BOT = 17.60

(S-24) STA. 110+25.21, 31.00' RT
CONST INLET TYPE P-5
FDOT INDEX 200, 201 & 211
EOP = 24.29
FL = 19.40 E
FL = 16.00 W
BOT = 14.00



EB310 / LC20000269
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 EB7917 / LB7062

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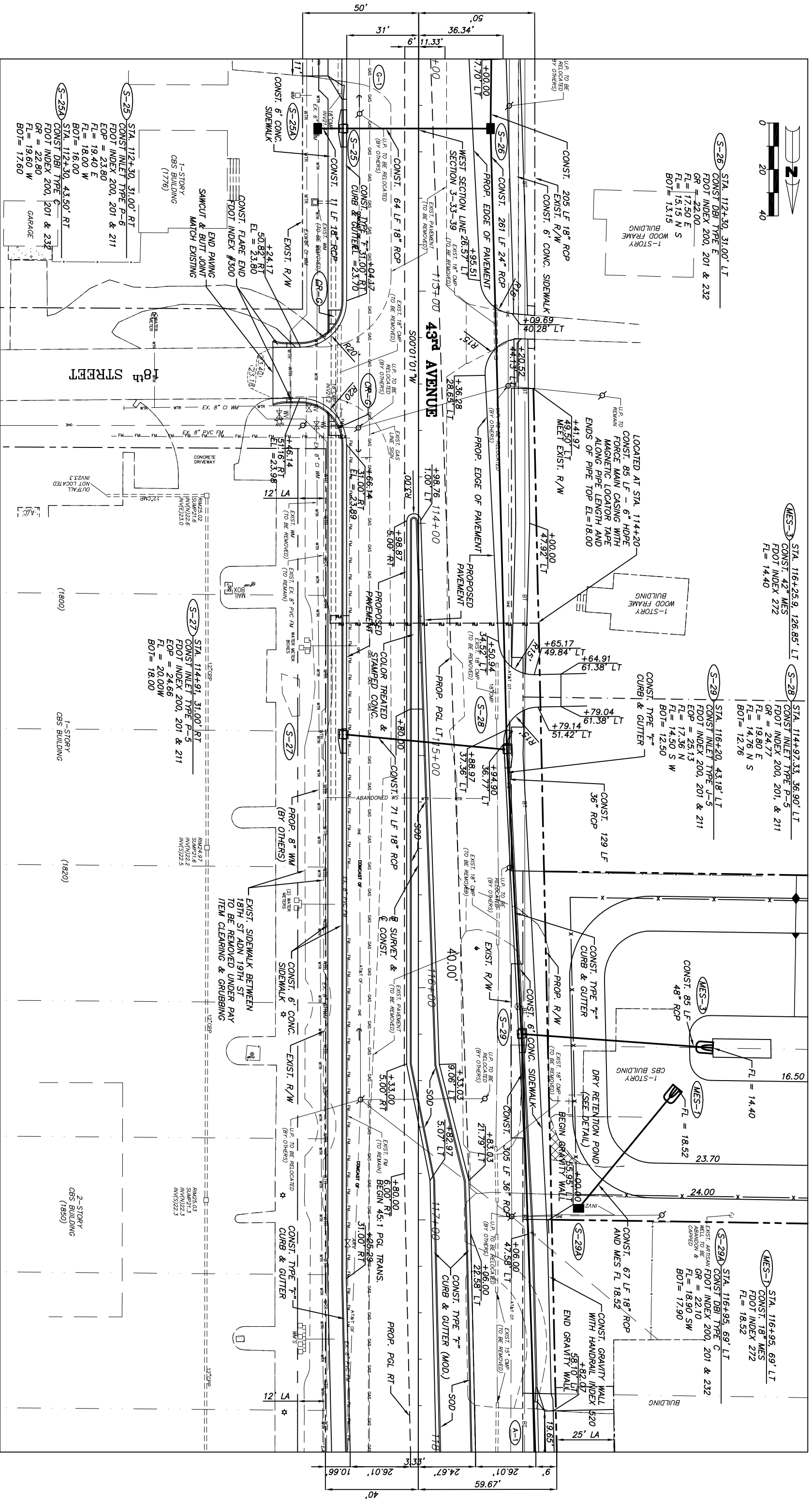

Department of Public Works
Engineering Division

Scale: 1" = 40'

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Project: **PLAN SHEETS
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SR 60 & 43RD AVENUE**

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MES-3 STA. 116+25.9, 126.85' LT
 CONST. 43" MES
 FDOT INDEX 200, 201 & 211
 FL = 14.40

S-28 STA. 114+97.33, 36.90' LT
 CONST. INLET TYPE P-5
 FDOT INDEX 200, 201, & 211
 GR = 24.77
 FL = 19.80 E
 FL = 14.76 N S
 BOT = 12.76

S-29 STA. 116+20, 43.18' LT
 CONST. INLET TYPE J-5
 FDOT INDEX 200, 201 & 211
 EOP = 25.13
 FL = 17.36 N
 FL = 14.50 S W
 BOT = 12.50

MES-1 STA. 116+95, 69' LT
 CONST. 18" MES
 FDOT INDEX 272
 FL = 18.52

S-29A STA. 116+95, 69' LT
 CONST. DBI TYPE C
 FDOT INDEX 200, 201 & 232
 GR = 22.10
 FL = 18.90 SW
 BOT = 17.90

S-26 STA. 112+30, 31.00' LT
 CONST. DBI TYPE E
 FDOT INDEX 200, 201 & 232
 GR = 22.00
 FL = 17.50 E
 FL = 15.15 N S
 BOT = 13.15

S-25 STA. 112+30, 31.00' RT
 CONST. INLET TYPE P-6
 FDOT INDEX 200, 201 & 211
 EOP = 23.80
 FL = 19.40 E
 FL = 18.00 W
 BOT = 16.00

S-25A STA. 112+30, 43.50' RT
 CONST. DBI TYPE G
 FDOT INDEX 200, 201 & 232
 GR = 22.80
 FL = 19.60 W
 BOT = 17.60

S-27 STA. 114+91, 31.00' RT
 CONST. INLET TYPE P-5
 FDOT INDEX 200, 201 & 211
 EOP = 24.66
 FL = 20.00 W
 BOT = 18.00

1-STORY
 CBS BUILDING
 (1800)

2-STORY
 CBS BUILDING
 (1850)

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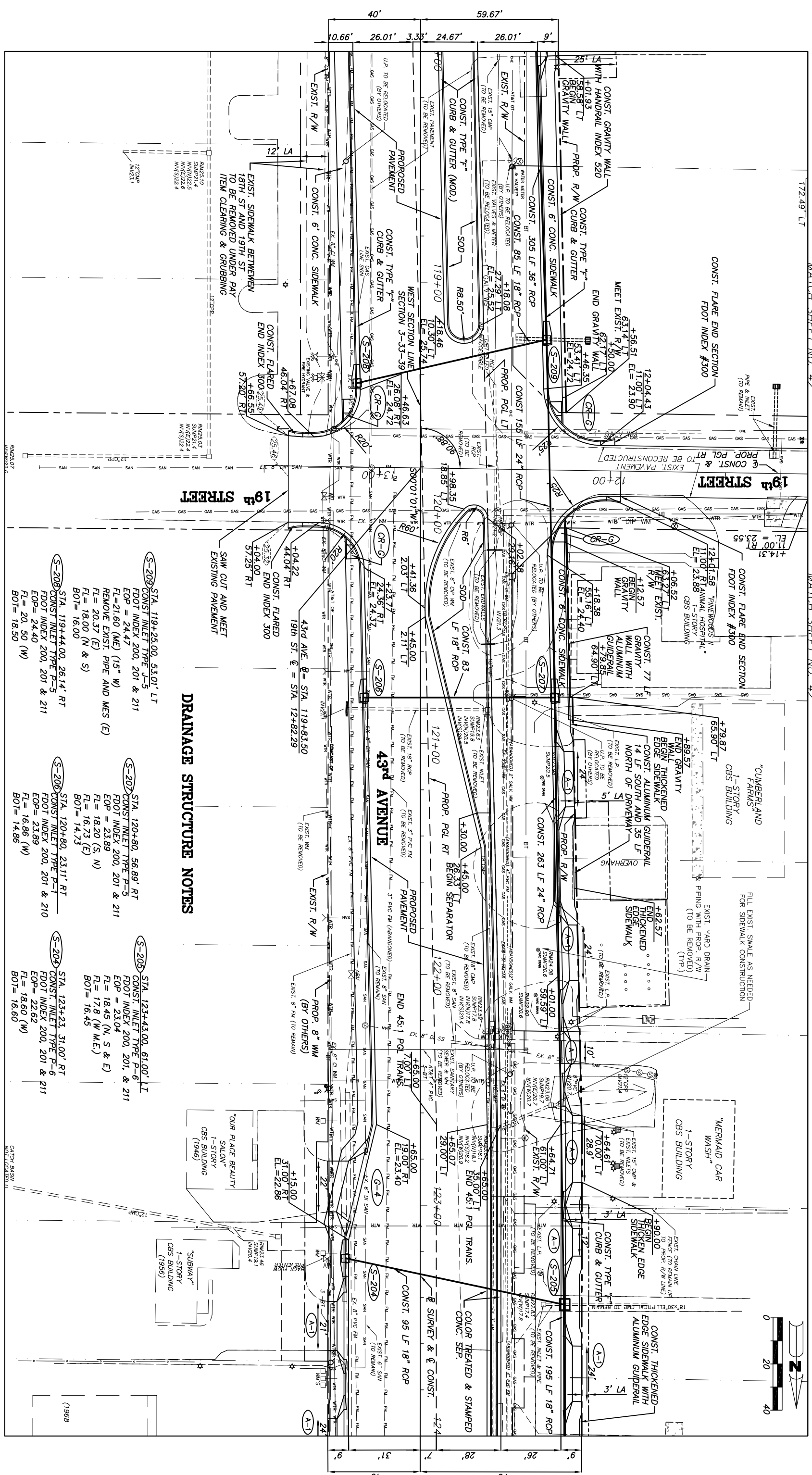
INDIAN RIVER COUNTY
 Department of Public Works
 Engineering Division

Scale: 1" = 40'

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Project: **PLAN SHEETS FOR SR 60 & 43RD AVENUE**

Sheet:	30
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DRAINAGE STRUCTURE NOTES

- (S-209) STA. 119+25.00, 53.01' LT
CONST. INLET TYPE J-5
FDOT INDEX 200, 201 & 211
EOP = 24.47
FL = 21.60 (NE) (15" W)
REMOVE EXIST. PIPE AND MES (E)
FL = 20.37 (E)
FL = 18.00 (N & S)
BOT = 16.00
- (S-208) STA. 119+44.00, 26.14' RT
CONST. INLET TYPE P-5
FDOT INDEX 200, 201 & 211
EOP = 24.40
FL = 20.50 (W)
BOT = 18.50
- (S-207) STA. 120+80, 56.89' RT
CONST. INLET TYPE P-5
FDOT INDEX 200, 201 & 211
EOP = 23.89
FL = 18.20 (S, N)
FL = 16.73 (E)
BOT = 14.73
- (S-206) STA. 120+80, 23.11' RT
CONST. INLET TYPE P-1
FDOT INDEX 200, 201 & 210
EOP = 23.89
FL = 16.86 (W)
BOT = 14.86
- (S-205) STA. 123+43.00, 61.00' LT
CONST. INLET TYPE P-6
FDOT INDEX 200, 201, & 211
EOP = 23.04
FL = 18.45 (N, S & E)
FL = 17.8 (W M.E.)
BOT = 16.45
- (S-204) STA. 123+23, 31.00' RT
CONST. INLET TYPE P-6
FDOT INDEX 200, 201 & 211
EOP = 22.62
FL = 18.60 (W)
BOT = 16.60

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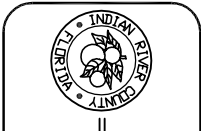
INDIAN RIVER COUNTY
 Department of Public Works
 Engineering Division

Scale: 1" = 40'
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Project: **PLAN SHEETS FOR SR 60 & 43RD AVENUE**

Sheet: 31
Of: 99
Project No. LNW# WP1027

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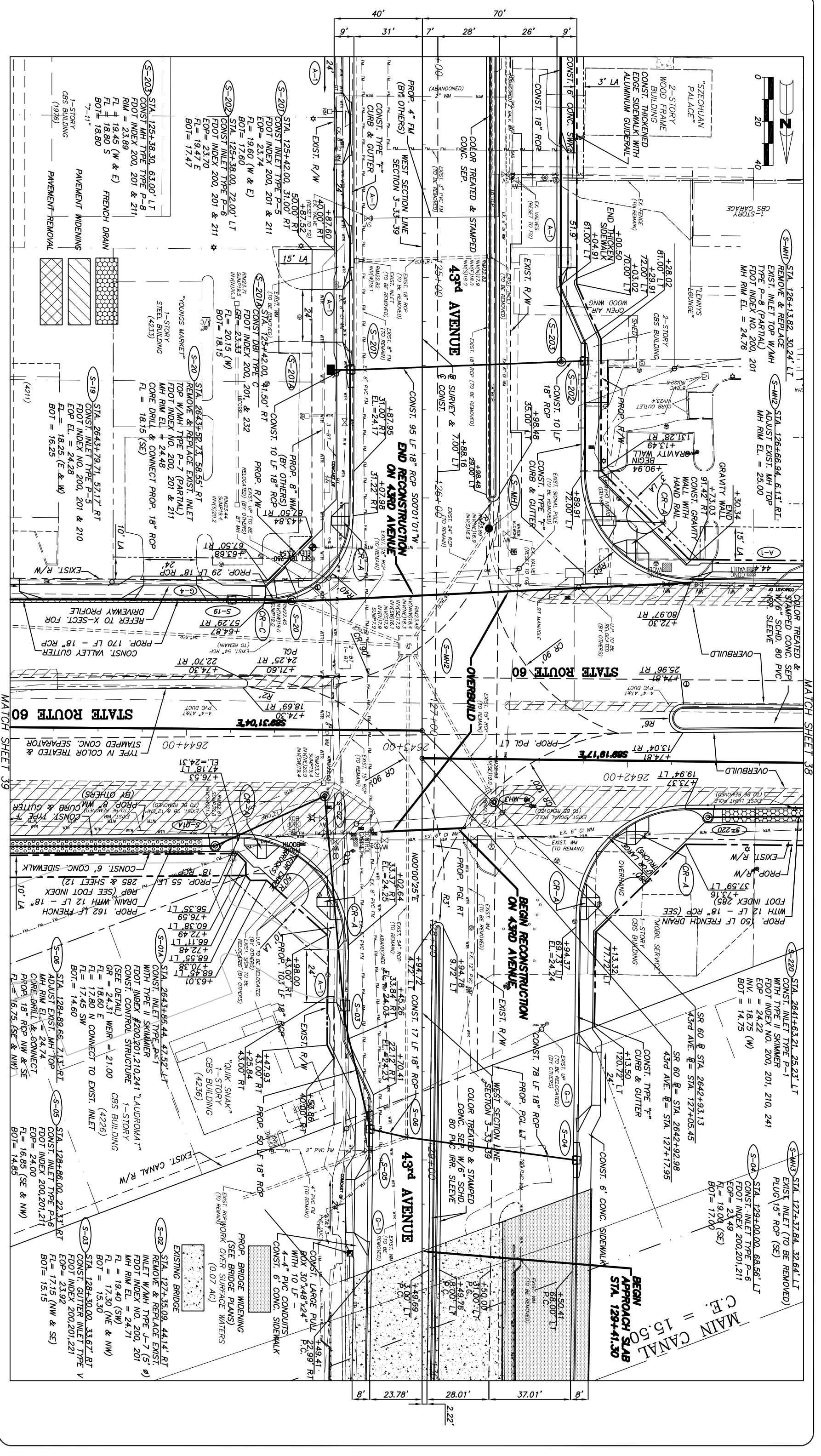


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Project: PLAN SHEETS
 FOR
 SR 60 & 43RD AVENUE

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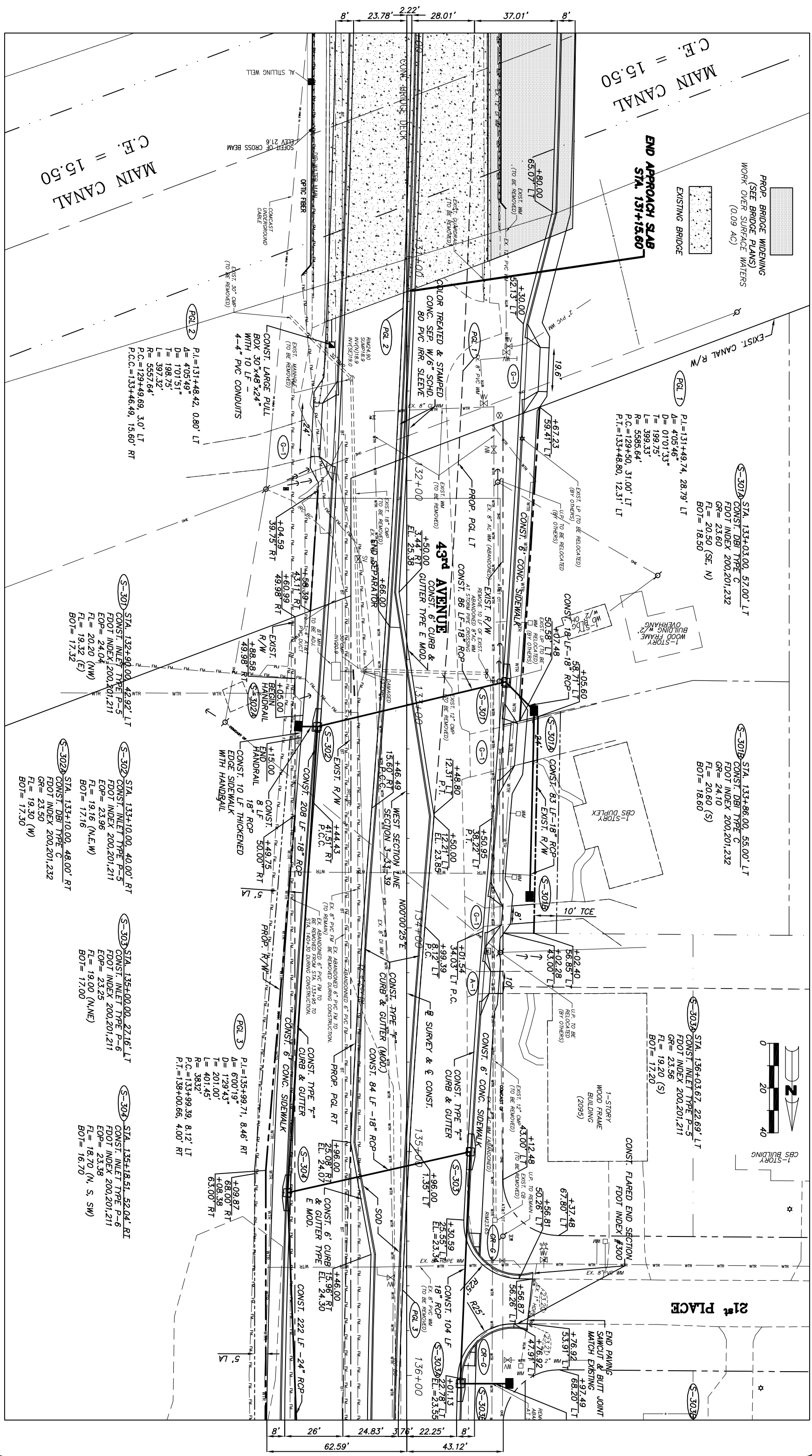
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Project: PLAN SHEETS
FOR SR 60 & 43RD AVENUE

Sheet: 33	Project No.
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PROP. BRIDGE WIDENING
(SEE BRIDGE PLANS)
WORK OVER SURFACE WATERS
(0.09 AC)

STA. 133+03.00, 57.00' LT
CONCI. DBI TYPE C
FDOT INDEX 200,201,232
GR= 23.60
FL= 20.50 (SE N)
BOT= 18.50

STA. 133+46.00, 55.00' LT
CONCI. DBI TYPE C
FDOT INDEX 200,201,232
GR= 24.10
FL= 20.60 (S)
BOT= 18.60

STA. 136+03.67, 22.66' LT
CONCI. INLET TYPE P-5
FDOT INDEX 200,201,211
GR= 23.56
FL= 19.20 (S)
BOT= 17.20

STA. 135+18.51, 52.04' RT
CONCI. INLET TYPE P-6
FDOT INDEX 200,201,211
EOP= 23.38
FL= 18.70 (N, S, W)
BOT= 16.70

PGL 2
P.I.=131+48.42, 0.80' LT
A= 4.05' 49"
D= 1'01' 51"
T= 198.75'
L= 397.32'
R= 5557.84'
P.C.=129+49.69, 3.0' LT
P.T.=133+46.49, 15.60' RT

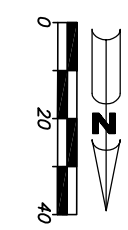
STA. 132+01.00, 42.92' LT
CONCI. INLET TYPE P-5
FDOT INDEX 200,201,211
EOP= 24.04
FL= 20.20 (NW)
FL= 19.32 (E)
BOT= 17.32

STA. 133+10.00, 40.00' RT
CONCI. INLET TYPE P-5
FDOT INDEX 200,201,211
EOP= 23.96
FL= 19.16 (N,E,W)
BOT= 17.16

STA. 135+00.00, 27.16' LT
CONCI. INLET TYPE P-6
FDOT INDEX 200,201,211
EOP= 23.25
FL= 19.00 (N,N,E)
BOT= 17.00

PGL 3
P.I.=135+99.71, 8.46' RT
A= 6'00' 19"
D= 1'29' 43"
T= 201.00'
L= 401.45'
R= 3832'
P.C.=133+99.39, 8.12' LT
P.T.=138+00.66, 4.00' RT

STA. 104 LF
CONCI. 104 LF
18" RCP
E MOD.
CONCI. 222 LF -24" RCP

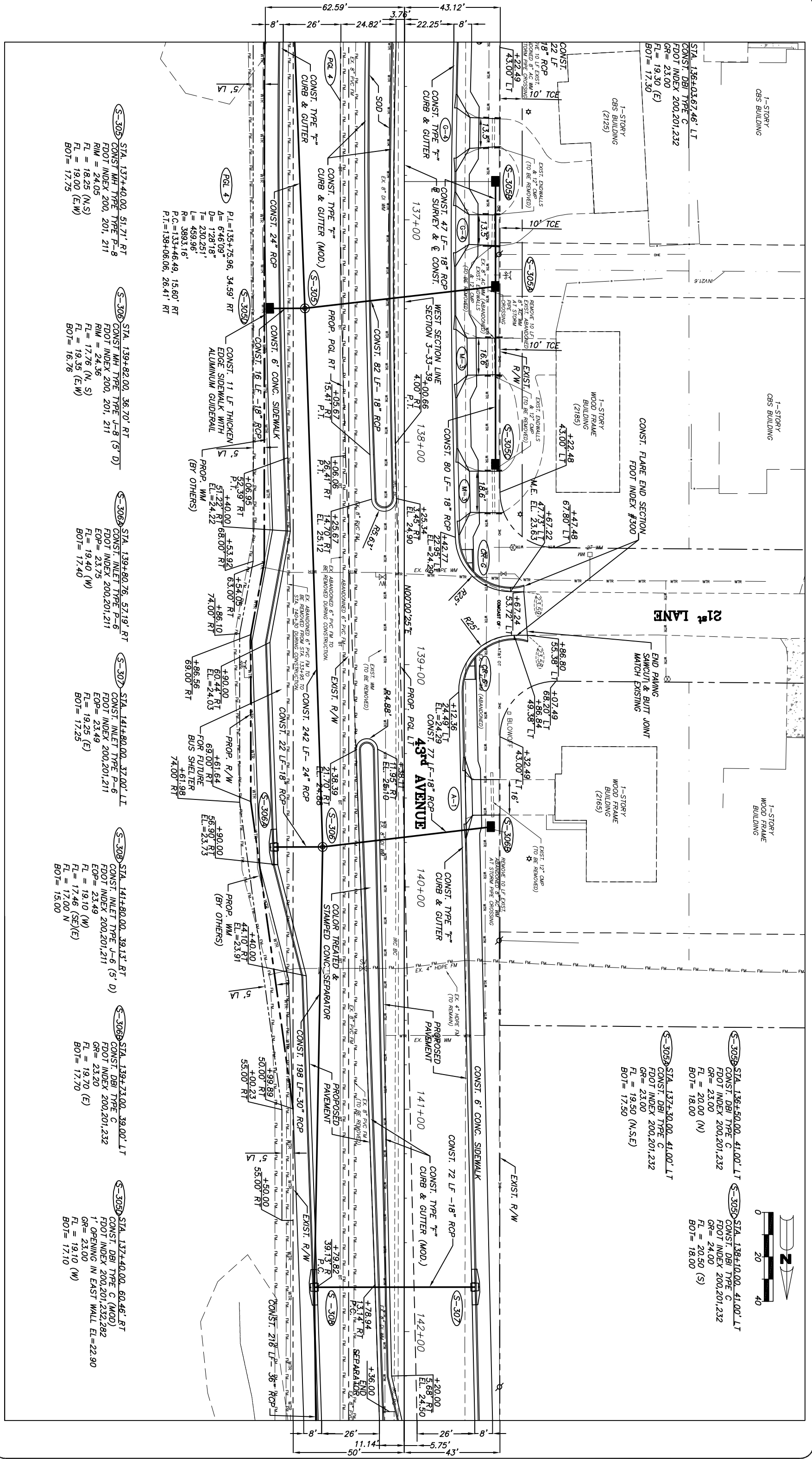


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(S-302) STA. 137+40.00, 51.71' RT
 CONST. MH TYPE TYPE P-8
 FDOT INDEX 200, 201, 211
 RIM = 24.05
 FL = 18.25 (N,S)
 BL = 19.00 (E,W)
 BOT = 17.75

(S-306) STA. 139+82.00, 36.70' RT
 CONST. MH TYPE TYPE J-8 (5' D)
 FDOT INDEX 200, 201, 211
 RIM = 24.36
 FL = 17.76 (N, S)
 BL = 19.35 (E,W)
 BOT = 16.76

(S-305a) STA. 139+80.76, 57.19' RT
 CONST. INLET TYPE P-6
 FDOT INDEX 200,201,211
 EOP = 23.75
 FL = 19.40 (W)
 BOT = 17.40

(S-307) STA. 141+80.00, 37.00' LT
 CONST. INLET TYPE P-6
 FDOT INDEX 200,201,211
 EOP = 23.49
 FL = 19.25 (E)
 BOT = 17.25

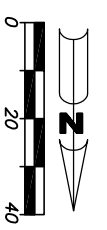
(S-308) STA. 141+80.00, 38.13' RT
 CONST. INLET TYPE J-6 (5' D)
 FDOT INDEX 200,201,211
 EOP = 23.49
 FL = 19.10 (W)
 FL = 17.46 (SE/E)
 BL = 17.00 N
 BOT = 15.00

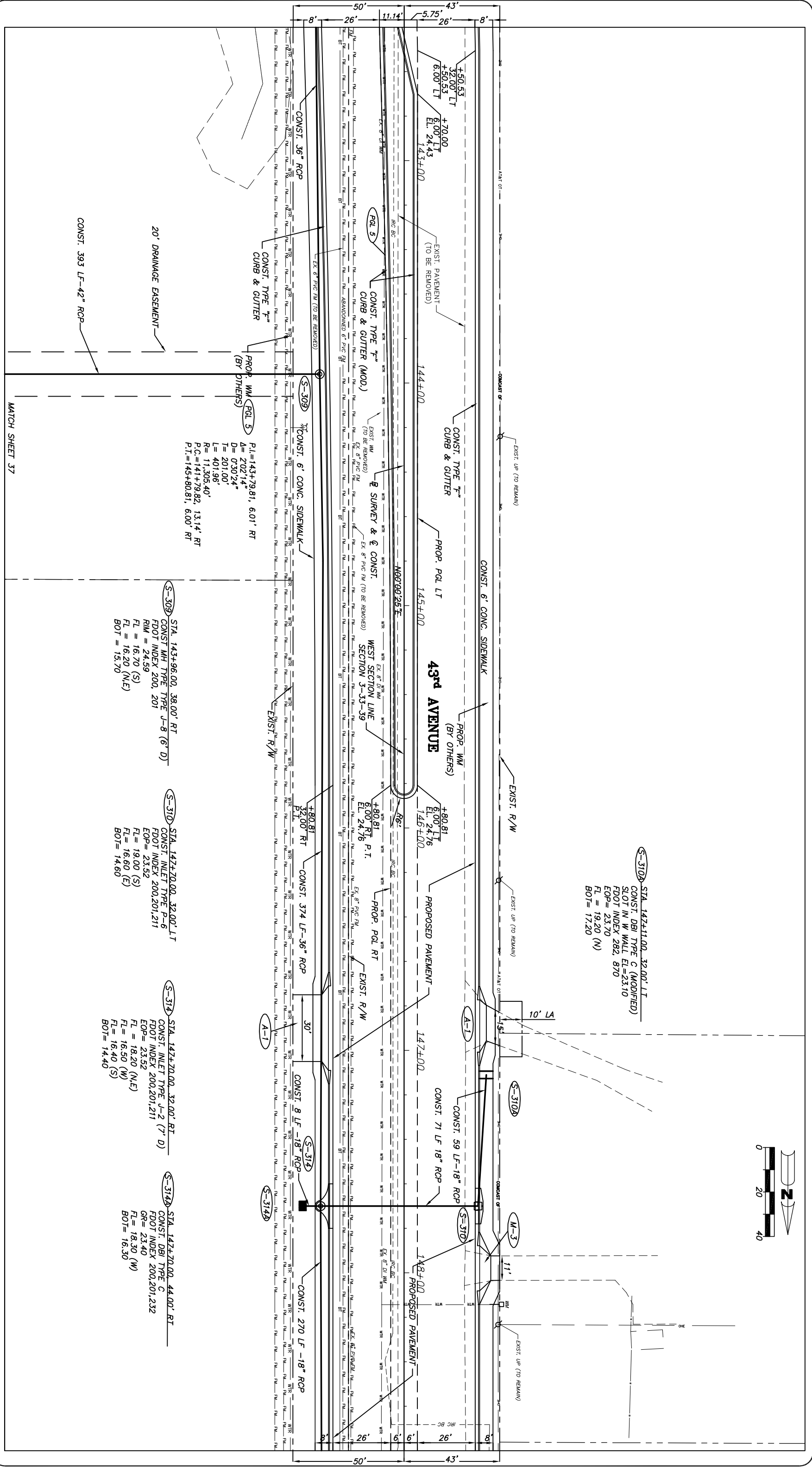
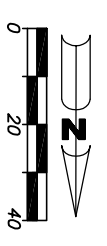
(S-305b) STA. 138+73.00, 39.00' LT
 CONST. DBI TYPE C
 FDOT INDEX 200,201,232
 GR = 23.20
 FL = 19.70 (E)
 BOT = 17.70

(S-305) STA. 137+40.00, 60.46' RT
 CONST. DBI TYPE C (MOD.)
 FDOT INDEX 200,201,232,282
 1' OPENING IN EAST WALL EL=22.90
 GR = 23.00
 FL = 19.10 (W)
 BOT = 17.10

(S-305c) STA. 137+30.00, 41.00' LT
 CONST. DBI TYPE C
 FDOT INDEX 200,201,232
 GR = 23.00
 FL = 19.50 (N,S,E)
 BOT = 17.50

(S-305d) STA. 136+50.00, 41.00' LT
 CONST. DBI TYPE C
 FDOT INDEX 200,201,232
 GR = 24.00
 FL = 20.50 (S)
 BOT = 18.00





S-310A STA. 1472+11.00, 32.00' LT
 CONST. DBI TYPE C (MODIFIED)
 SLOT IN W WALL EL=23.10
 FDOT INDEX 282, 870
 EOP= 23.70
 FL = 19.20 (N)
 BOT= 17.20

S-309 STA. 143+96.00, 38.00' RT
 CONST. MH TYPE TYPE J-8 (6' D)
 FDOT INDEX 200, 201
 RIM = 24.59
 FL = 16.70 (S)
 FL = 16.20 (NE)
 BOT = 13.70

S-310 STA. 142+70.00, 32.00' LT
 CONST. INLET TYPE P-6
 FDOT INDEX 200,201,211
 EOP= 23.52
 FL = 19.00 (S)
 FL = 16.60 (E)
 BOT= 14.60

S-314 STA. 142+20.00, 32.00' RT
 CONST. INLET TYPE J-2 (7' D)
 FDOT INDEX 200,201,211
 EOP= 23.52
 FL = 18.20 (NE)
 FL = 16.50 (W)
 FL = 16.40 (S)
 BOT= 14.40

S-314B STA. 142+20.00, 44.00' RT
 CONST. DBI TYPE C
 FDOT INDEX 200,201,232
 GR= 23.40
 FL = 18.30 (W)
 BOT= 16.30

P.L.=143+79.81, 6.01' RT
 A= 202'14"
 D= 0'30'24"
 T= 201.00'
 L= 401.96'
 R= 11,305.40'
 P.C.=141+79.82, 13.14' RT
 P.T.=145+80.81, 6.00' RT

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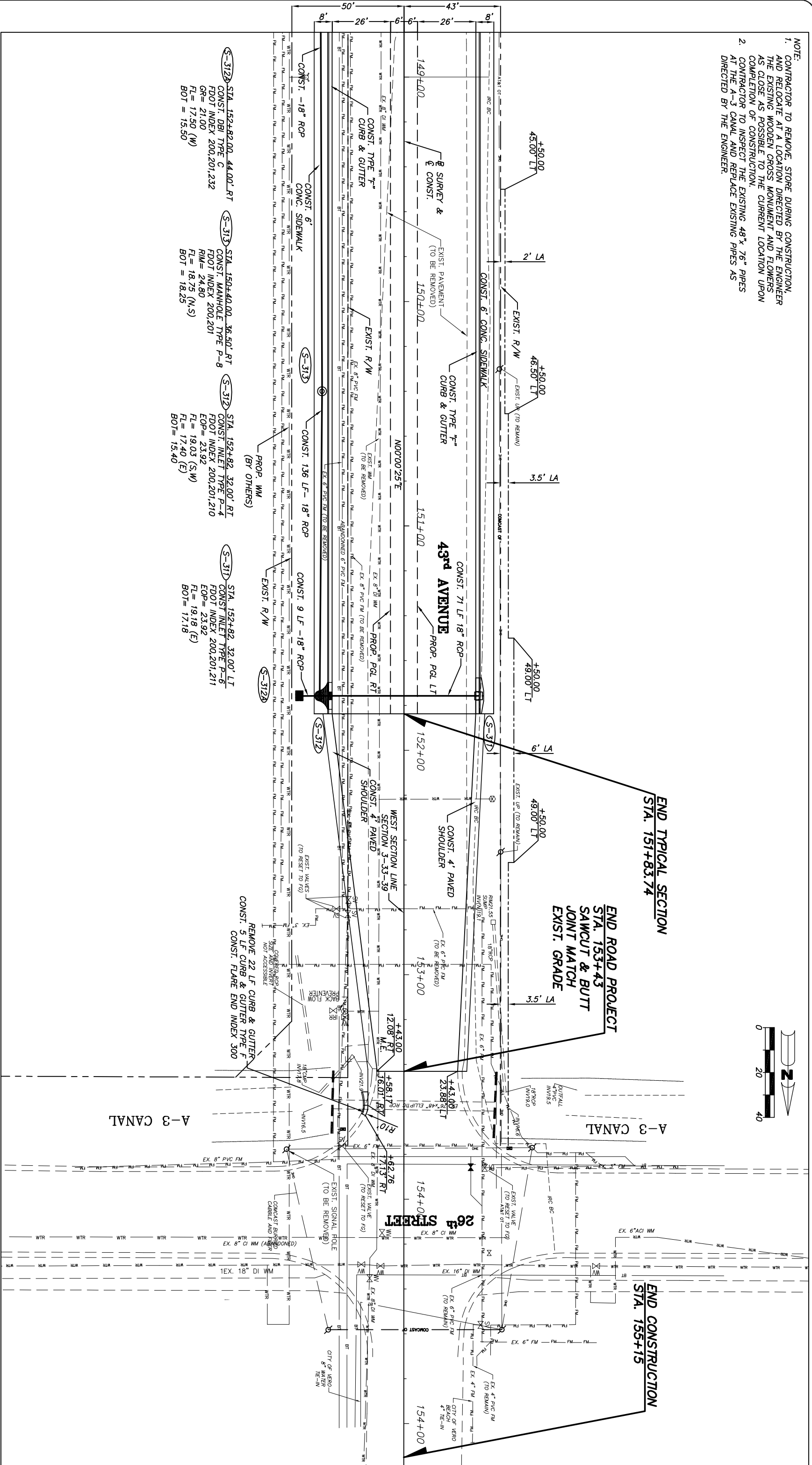
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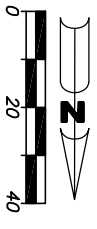
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- NOTE:
- CONTRACTOR TO REMOVE STORE DURING CONSTRUCTION, AND RELOCATE AT A LOCATION DIRECTED BY THE ENGINEER. THE EXISTING WOODEN CROSS MONUMENT AND FLOWERS AS CLOSE AS POSSIBLE TO THE CURRENT LOCATION UPON COMPLETION OF CONSTRUCTION.
 - CONTRACTOR TO INSPECT THE EXISTING 48" x 76" PIPES AT THE A-3 CANAL AND REPLACE EXISTING PIPES AS DIRECTED BY THE ENGINEER.



- (S-312a) STA. 152+82.00, 44.00' RT
CONST. DBI TYPE C
FDOT INDEX 200,201,232
GR= 21.00
FL= 17.50 (W)
BOT= 15.50
- (S-313) STA. 150+40.00, 36.50' RT
CONST. MANHOLE TYPE P-8
FDOT INDEX 200,201
RIM= 24.80
FL= 18.75 (N.S)
BOT= 18.25
- (S-312) STA. 152+82, 32.00' RT
CONST. INLET TYPE P-4
FDOT INDEX 200,201,210
EOP= 23.92
FL= 19.03 (S.W)
BOT= 17.40 (E)
- (S-311) STA. 152+82, 32.00' LT
CONST. INLET TYPE P-6
FDOT INDEX 200,201,211
EOP= 23.92
FL= 19.18 (E)
BOT= 17.18



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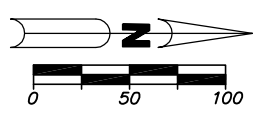
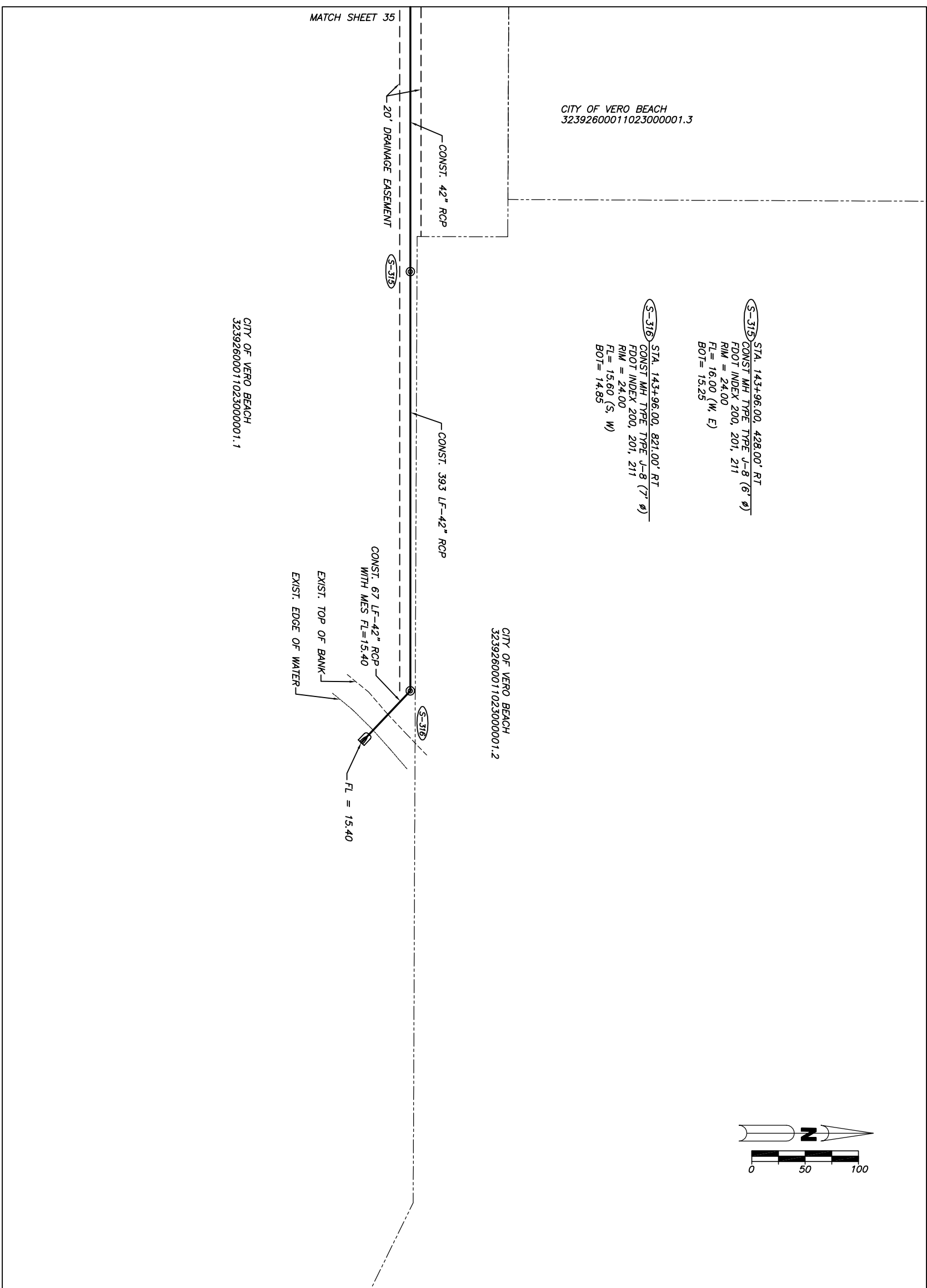
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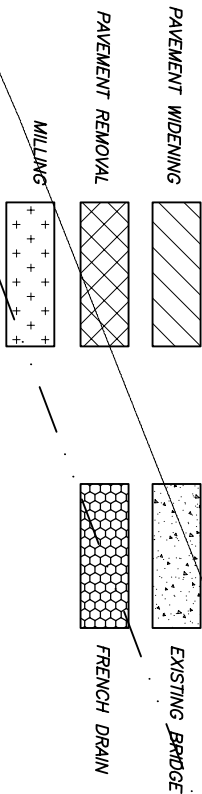
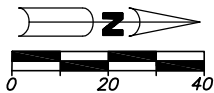
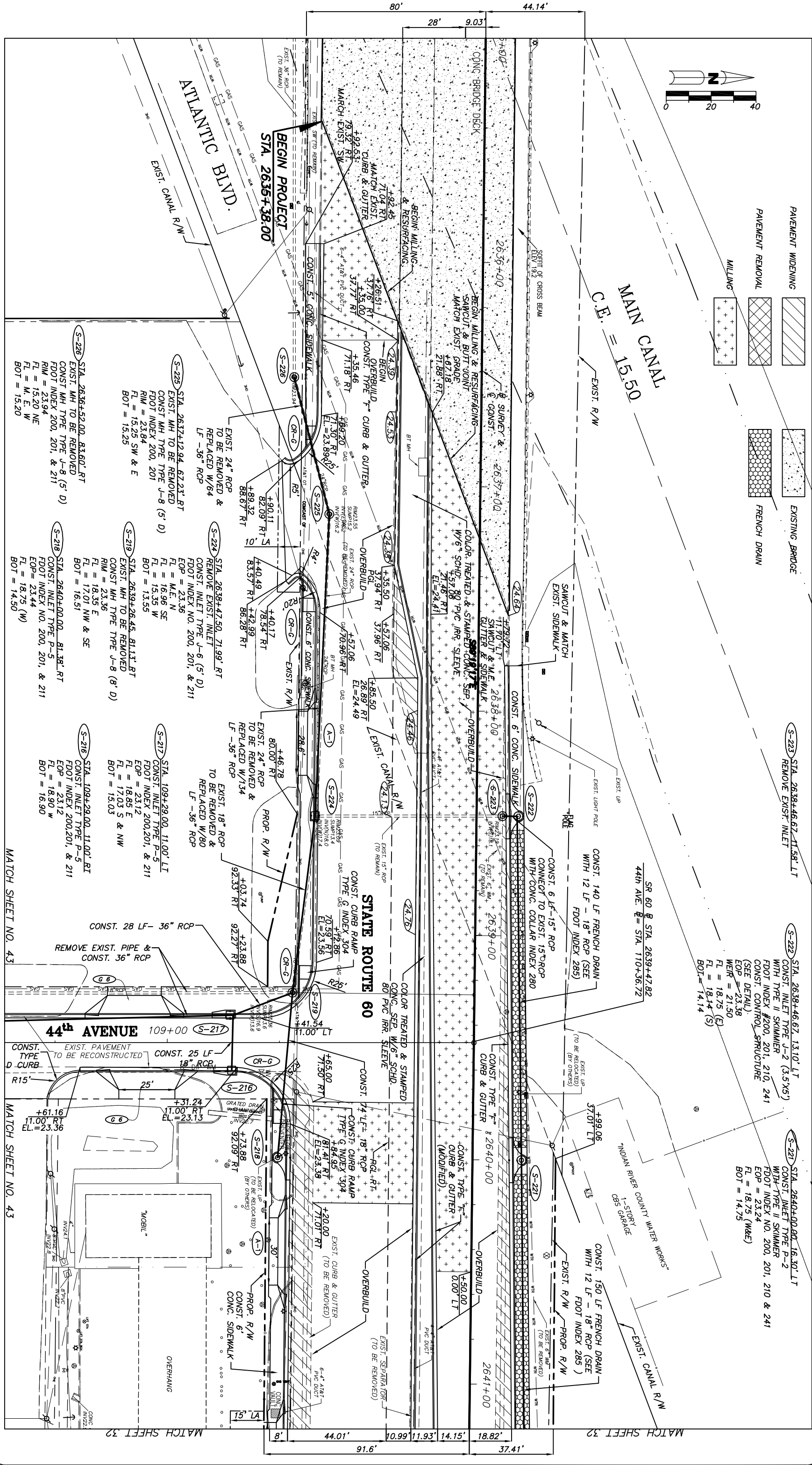


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MATCH SHEET NO. 43

MATCH SHEET NO. 32

MATCH SHEET NO. 32

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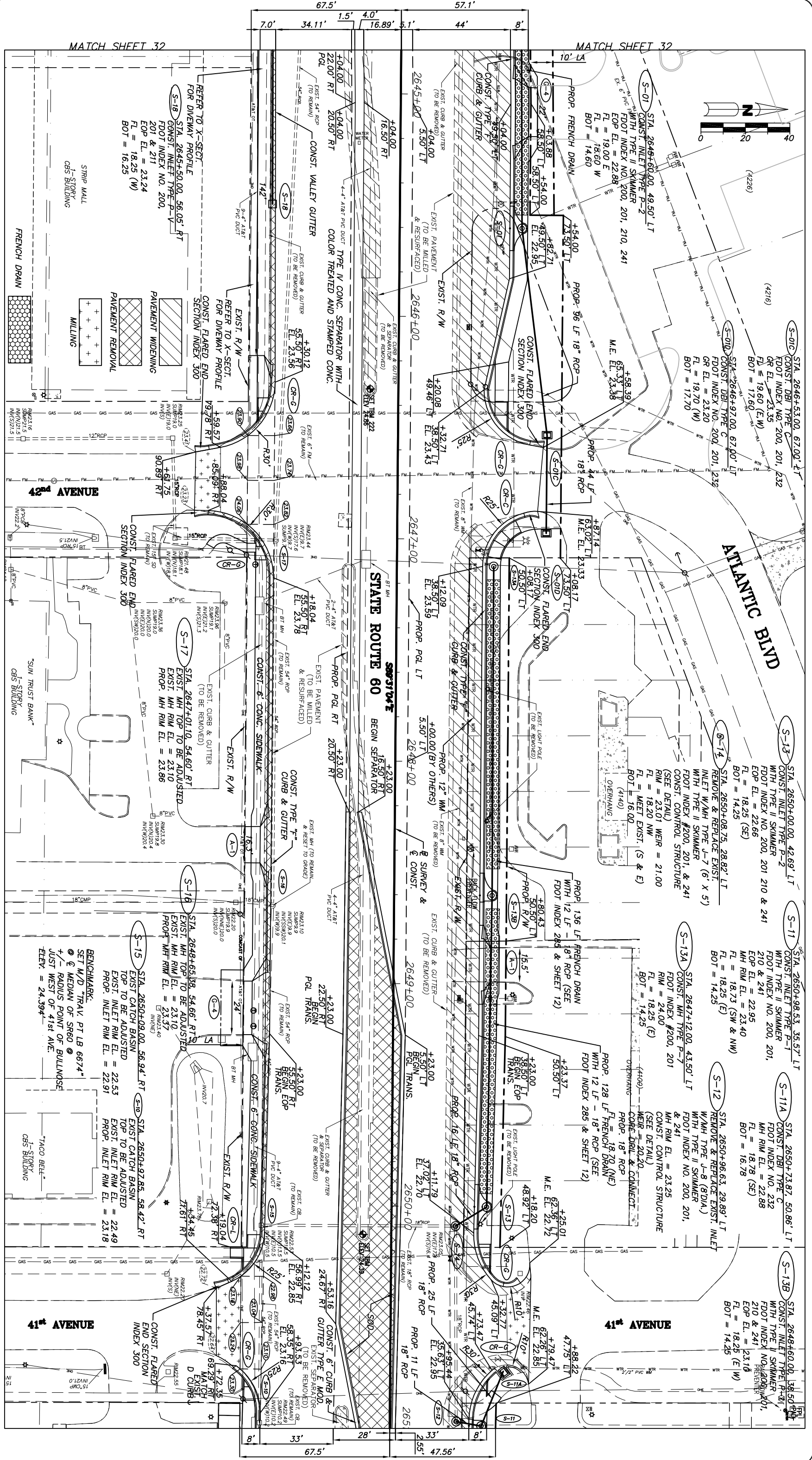
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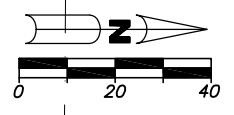
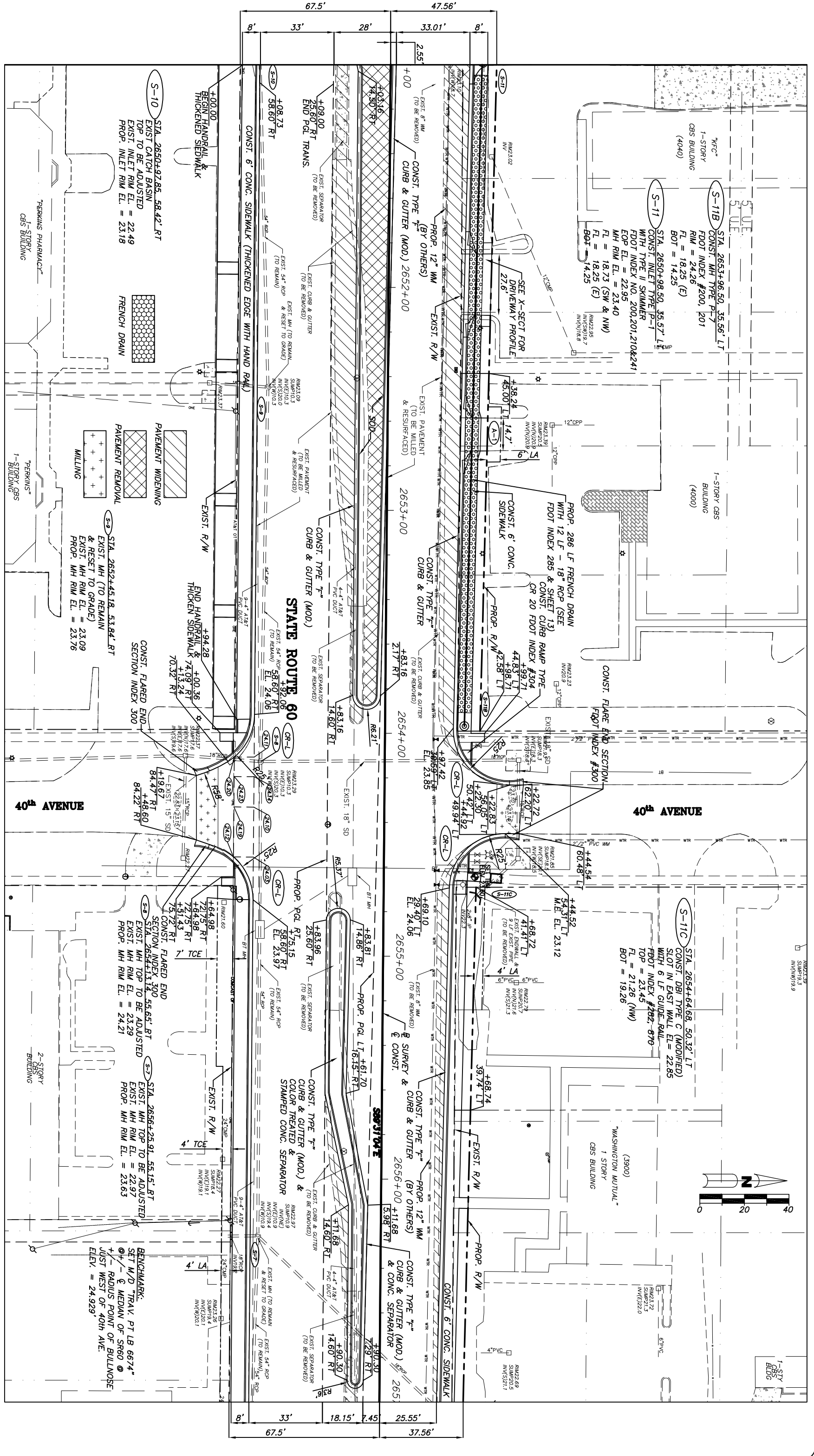
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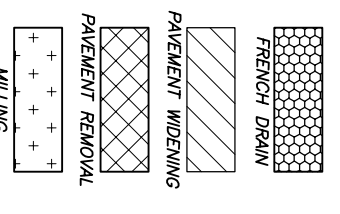
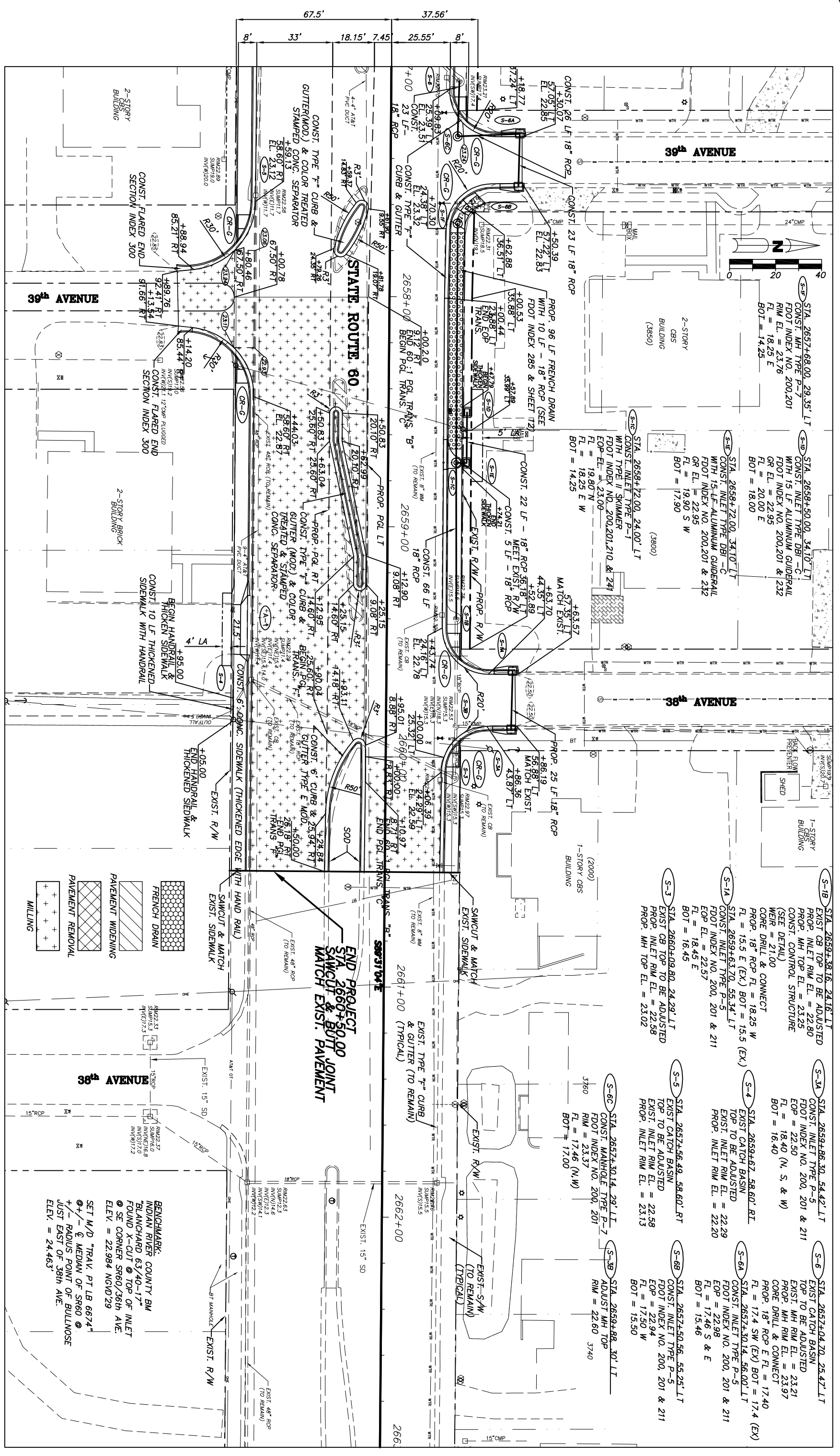


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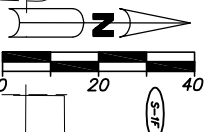
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BENCHMARK:
 INDIAN RIVER COUNTY BM
 "BLANCHARD 63/40-17"
 FOUND X-CUT @ TOP OF INLET
 @ SE CORNER SR60/36th AVE.
 ELEV. = 22.984 NGVD'29

SET M/D "TRAV. PT LB 6674"
 @ +/- RADIUS POINT OF BULLNOSE
 JUST EAST OF 38th AVE.
 ELEV. = 24.463

END PROJECT
 STA 2660+50.00 JOINT
 SAWCUT & MATCH
 END PAVEMENT



S-1A STA. 2657+68.00, 29.35' LT
 CONST. MH TYPE P-7
 FDOT INDEX NO. 200.201
 RIM EL. = 23.76
 FL = 18.25 E
 BOT = 14.25

S-1B STA. 2658+50.00, 34.10' LT
 CONST. INLET TYPE DBI-C
 WITH 15-LF ALUMINUM GUIDERAIL
 FDOT INDEX NO. 200.201 & 232
 GR EL. = 22.95
 FL = 20.00 E
 BOT = 18.00

S-1C STA. 2658+72.00, 34.10' LT
 CONST. INLET TYPE DBI-C
 WITH 15-LF ALUMINUM GUIDERAIL
 FDOT INDEX NO. 200.201 & 232
 GR EL. = 22.95
 FL = 19.90 S W
 BOT = 17.90

S-1D STA. 2658+12.00, 24.00' LT
 CONST. INLET TYPE P-1
 WITH TYPE II SKIMMER
 FDOT INDEX NO. 200.201, 210 & 241
 EOP EL. = 23.00
 FL = 19.80' N
 FL = 18.25 E W
 BOT = 14.25

S-1E STA. 2659+38.16, 24.18' LT
 EXIST. CB TOP TO BE ADJUSTED
 PROP. INLET RIM EL. = 22.80
 CONST. MH TOP EL. = 23.25
 CONST. CONTROL STRUCTURE
 (SEE DETAIL)
 WEIR = 21.00
 CORE DRILL & CONNECT
 PROP. 18" RCP FL = 18.25 W
 FL = 15.5 E (EX.) BOT = 15.5 (EX.)
 STA. 2659+63.70, 55.34' LT
 CONST. INLET TYPE P-5
 FDOT INDEX NO. 200, 201 & 211
 EOP EL. = 22.57
 FL = 18.45 E
 BOT = 16.45

S-1F STA. 2659+86.30, 54.42' LT
 CONST. INLET TYPE P-5
 FDOT INDEX NO. 200, 201 & 211
 EOP = 22.50
 FL = 18.40 (N, S, & W)
 BOT = 16.40

S-1G STA. 2659+67, 58.60' RT
 EXIST. CATCH BASIN
 TOP TO BE ADJUSTED
 EXIST. INLET RIM EL. = 22.29
 PROP. INLET RIM EL. = 22.20

S-1H STA. 2657+04.70, 25.47' LT
 EXIST. CATCH BASIN
 TOP TO BE ADJUSTED
 EXIST. MH RIM EL. = 23.21
 PROP. MH RIM EL. = 23.97
 CORE DRILL & CONNECT
 PROP. 18" RCP E FL = 17.40
 FL = 17.4 SW (EX.) BOT = 17.4 (EX.)
 STA. 2657+30.14, 56.00' LT
 CONST. INLET TYPE P-5
 FDOT INDEX NO. 200, 201 & 211
 EOP = 22.98
 FL = 17.46 S & E
 BOT = 15.46

S-2A STA. 2657+56.49, 58.60' RT
 EXIST. CATCH BASIN
 TOP TO BE ADJUSTED
 EXIST. INLET RIM EL. = 22.98
 PROP. INLET RIM EL. = 23.13

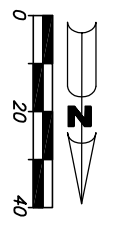
S-2B STA. 2657+30.14, 29' LT
 CONST. MANHOLE TYPE P-7
 FDOT INDEX NO. 200, 201
 RIM = 23.37
 FL = 17.46 (N, W)
 BOT = 17.00

S-2C STA. 2657+50.56, 55.25' LT
 CONST. INLET TYPE P-5
 FDOT INDEX NO. 200, 201 & 211
 EOP = 22.94
 FL = 17.50 W
 BOT = 15.50

S-3A STA. 2660+09.80, 24.29' LT
 EXIST. CB TOP TO BE ADJUSTED
 PROP. INLET RIM EL. = 22.55
 PROP. MH TOP EL. = 23.02

S-3B STA. 2660+09.80, 24.29' LT
 EXIST. CB TOP TO BE ADJUSTED
 PROP. INLET RIM EL. = 22.55
 PROP. MH TOP EL. = 23.02

S-3C STA. 2660+09.80, 24.29' LT
 EXIST. CB TOP TO BE ADJUSTED
 PROP. INLET RIM EL. = 22.55
 PROP. MH TOP EL. = 23.02



(S-211) STA. 101+21.00, 9.00' LT
 CONST. MH TYPE TYPE J-7 (7" Ø)
 FDOT INDEX 200, 201, & 211
 RIM = 23.25
 FL = 18.00 N E
 BOT = 17.50

(GS-1) STA. 101+21.00, 63.00' LT
 CONST. MH TYPE TYPE J-7 (8"x5")
 FDOT INDEX 200, 201
 CONST. CONTROL STRUCTURE
 WEIR = 19.15 (SEE DETAIL)
 RIM = 23.25
 FL = 18.04 W
 FL = 16.90 E
 BOT = 14.90

(S-213) STA. 103+22.47, 9.22' LT
 CONST. MH TYPE TYPE J-8 (7" Ø)
 FDOT INDEX 200, 201, & 211
 RIM = 23.27
 FL = 17.92 N S
 BUTT JOINT MATCH EXISTING
 FL = 17.80 W
 FL = 17.60 E
 BOT = 17.10

(S-213C) EXIST. R/W
 44th AVE. @ STA. 103+00.63
 19th ST. @ STA. 9+37.11
 +17.57
 +25.02 LT

STA. 100+40
 END PAVING
 SAWCUT & BUTT JOINT
 MATCH EXISTING

(MES-2) STA. 117+90.93, 265' LT
 CONST. 18" MES
 FDOT INDEX 272
 FL = 18.52

CONST. 60 LF 36" RCP
 15' DRIVEWAY TYPE B STABILIZATION
 12" THICK MIN. LBR 40

(MES-2) CONST. 32 LF 36" RCP
 AND MES FL 17.77

(GS-1) FL = 17.00

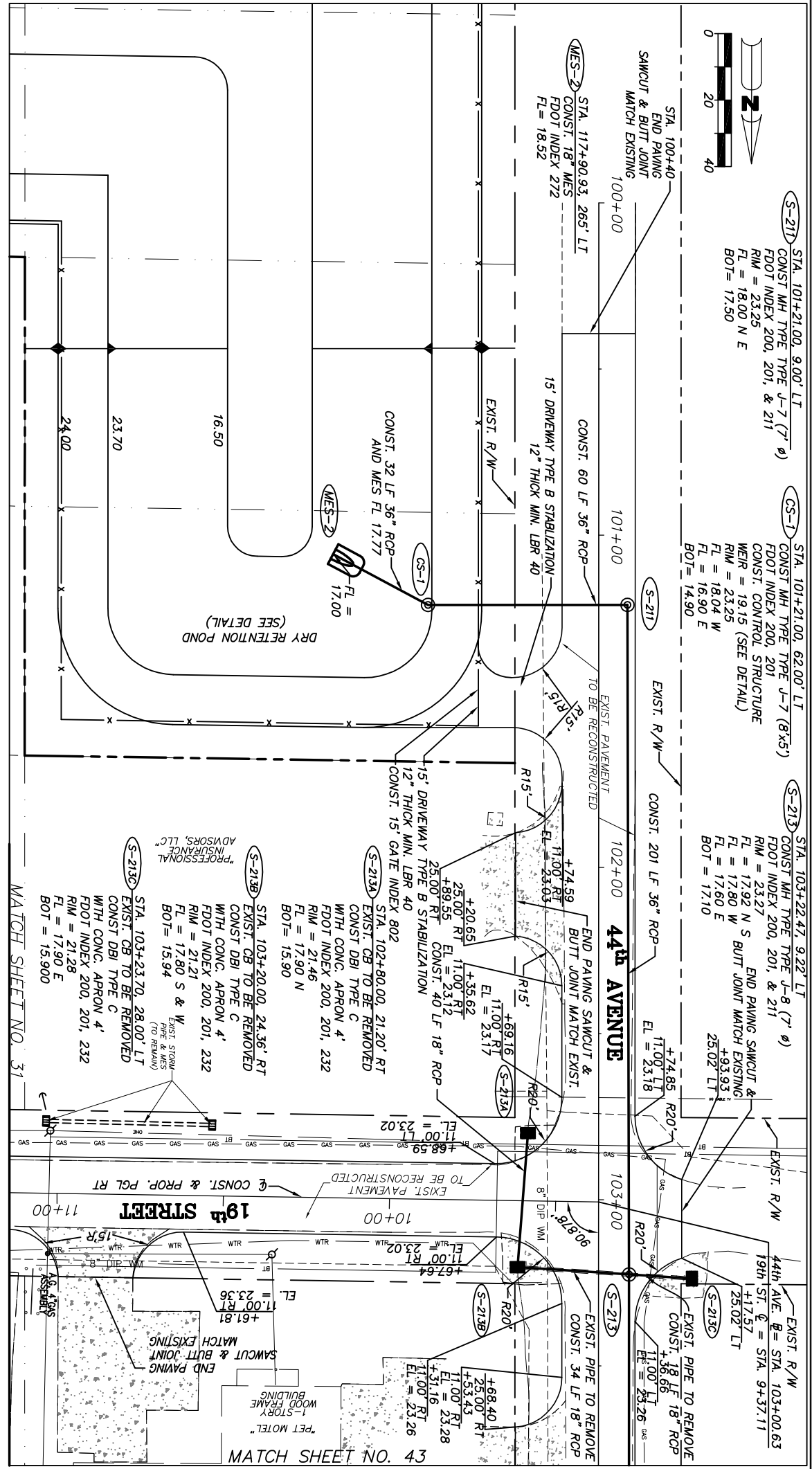
DRY RETENTION POND
 (SEE DETAIL)

(S-213A) STA. 102+80.00, 21.20' RT
 EXIST. CB TO BE REMOVED
 WITH CONC. APRON 4'
 FDOT INDEX 200, 201, 232
 RIM = 21.46
 FL = 17.90 N
 BOT = 15.90

(S-213B) STA. 103+20.00, 24.36' RT
 EXIST. CB TO BE REMOVED
 WITH CONC. APRON 4'
 FDOT INDEX 200, 201, 232
 RIM = 21.21
 FL = 17.80 S & W
 FL = 15.94 (TO REMAIN)
 FIRST STORM PIPE & MES (TO REMAIN)

(S-213C) STA. 103+23.70, 28.00' LT
 EXIST. CB TO BE REMOVED
 WITH CONC. APRON 4'
 FDOT INDEX 200, 201, 232
 RIM = 21.28
 FL = 17.90 E
 BOT = 15.900

MATCH SHEET NO. 31



44TH AVENUE PLAN SHEET

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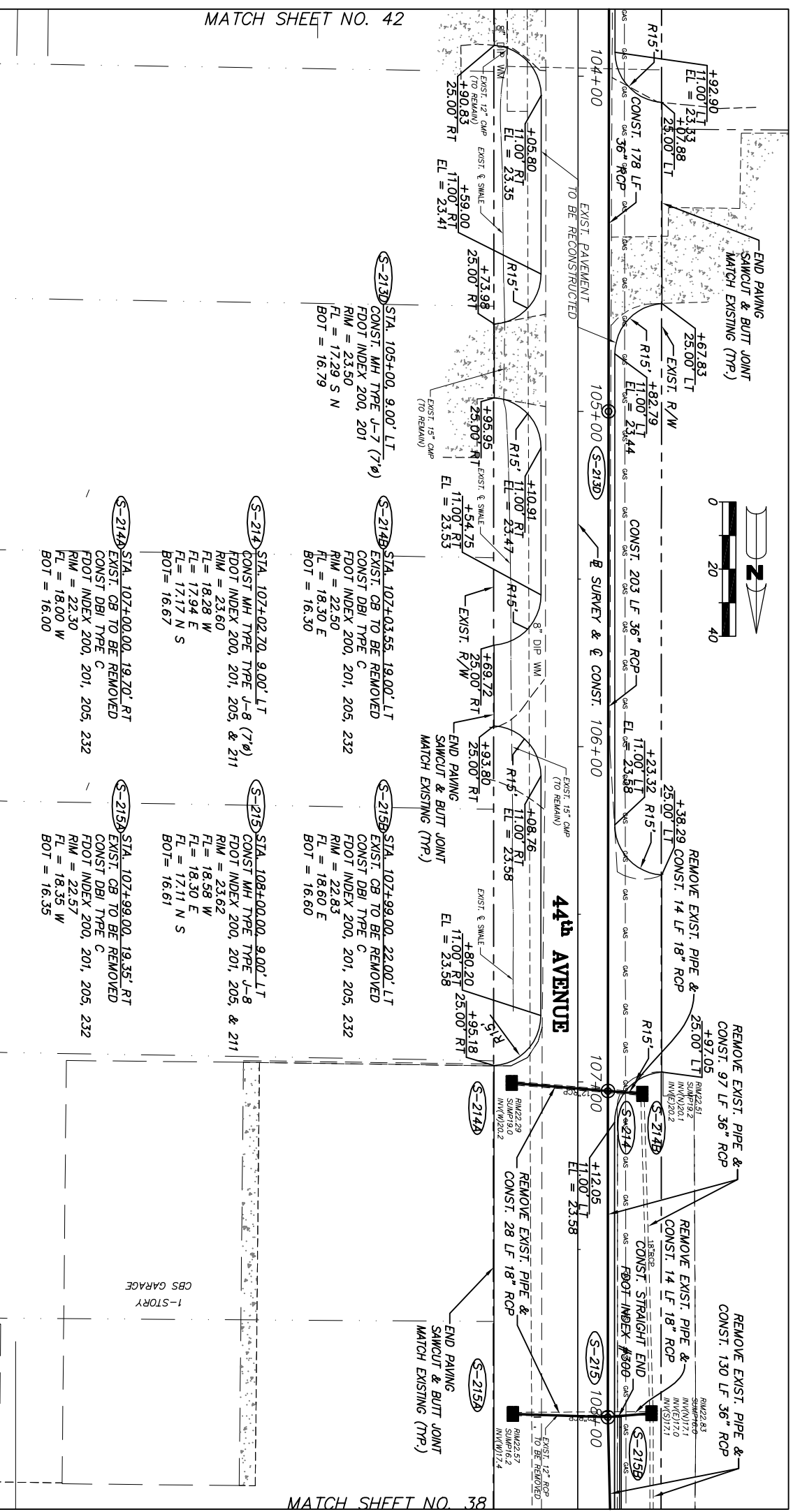
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MATCH SHEET NO. 38

44TH AVENUE PLAN SHEET


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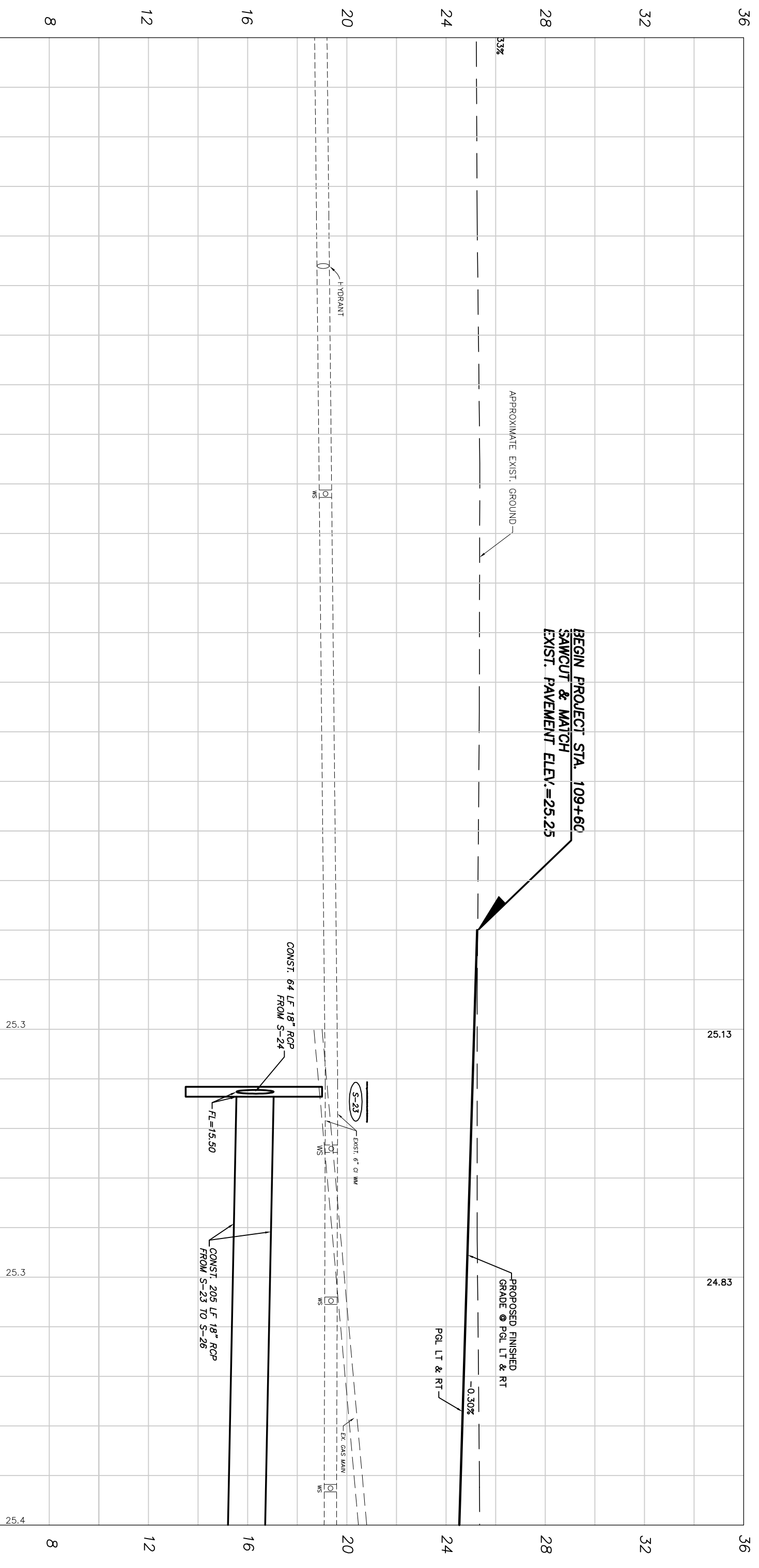
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43RD AVENUE

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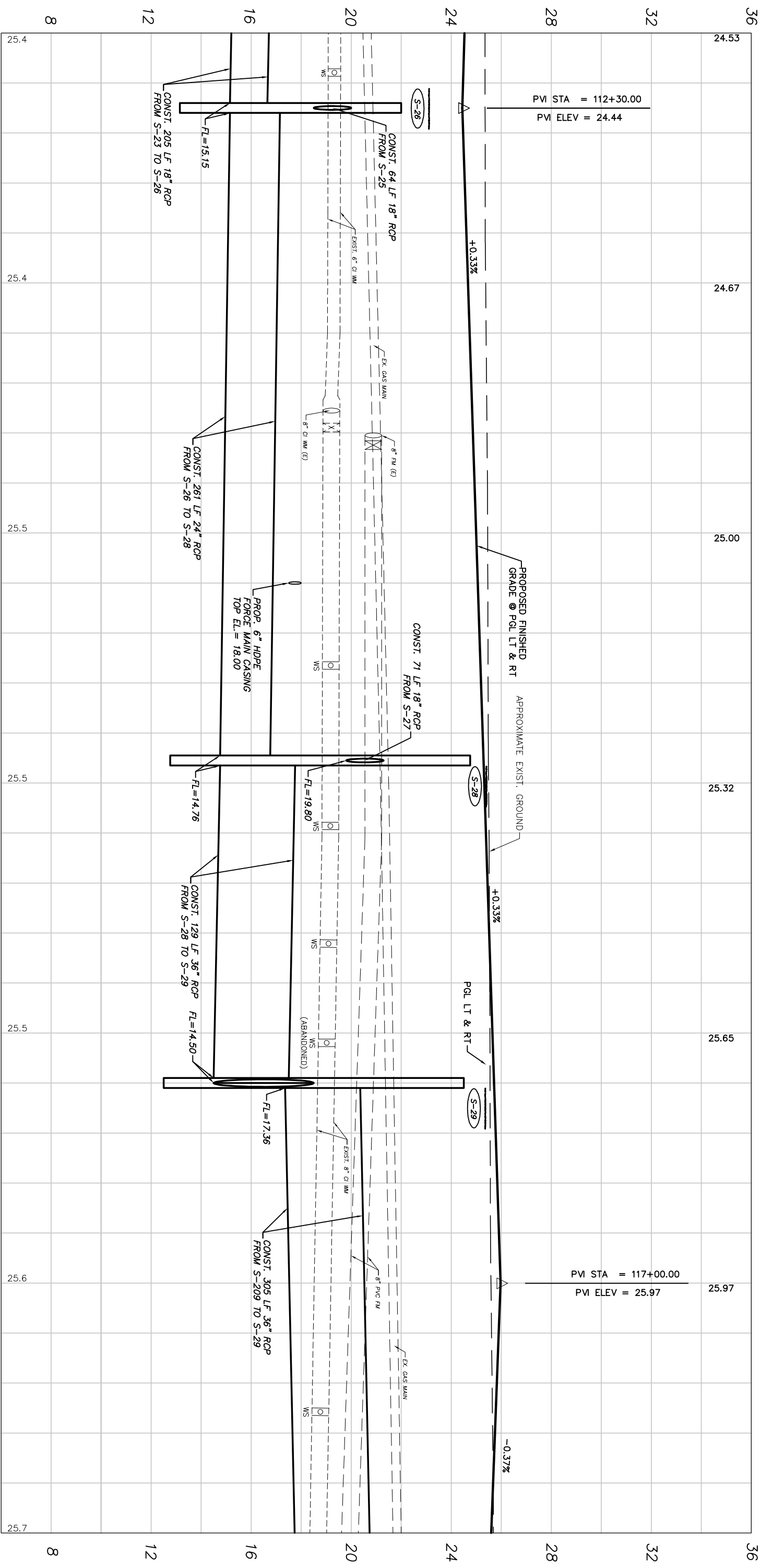
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112+00 113+00 114+00 115+00 116+00 117+00 118+00

43RD AVENUE

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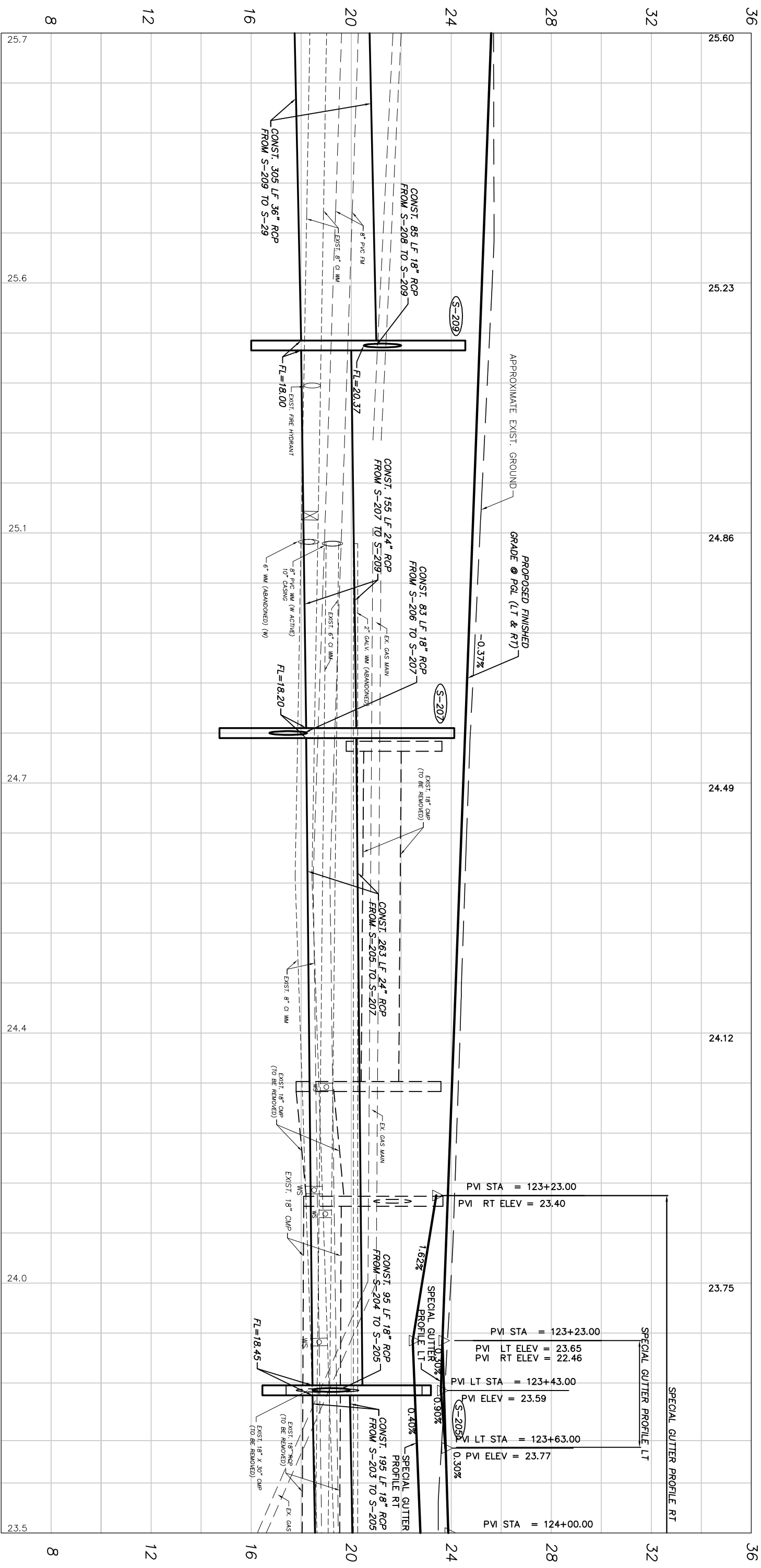
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43RD AVENUE

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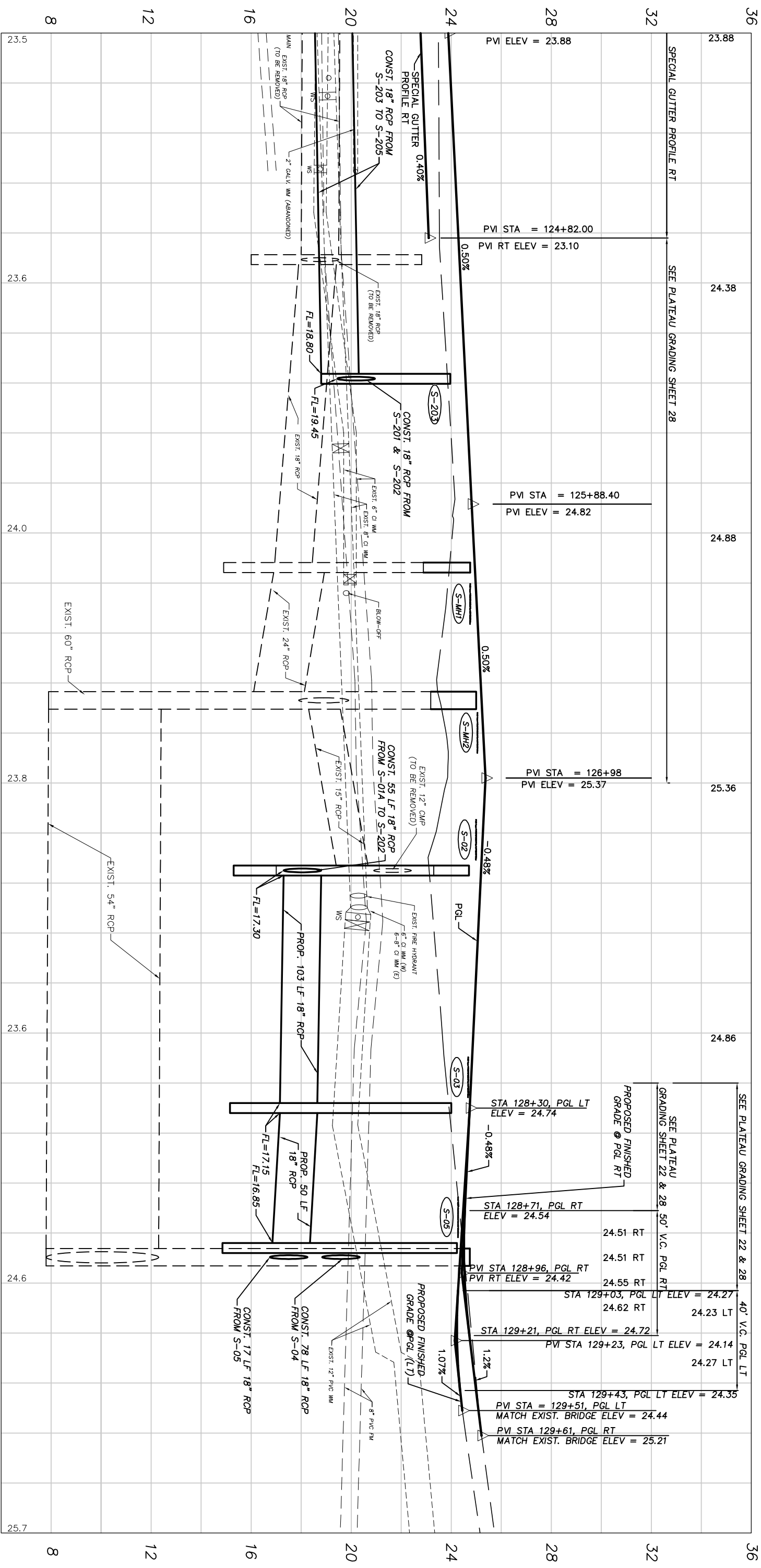
No:	Revision:	By:	Date:

Department of Public Works
 Engineering Division

Scale:	1" = 4' VERT. 1" = 40' HORIZ.
Approved:	HWD
Drawn:	FM
Checked:	HWD
Date:	6/2017
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Project: PROFILE SHEETS
 FOR SR 60 & 43RD AVENUE

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124+00 125+00 126+00 127+00 128+00 129+00 130+00

43RD AVENUE

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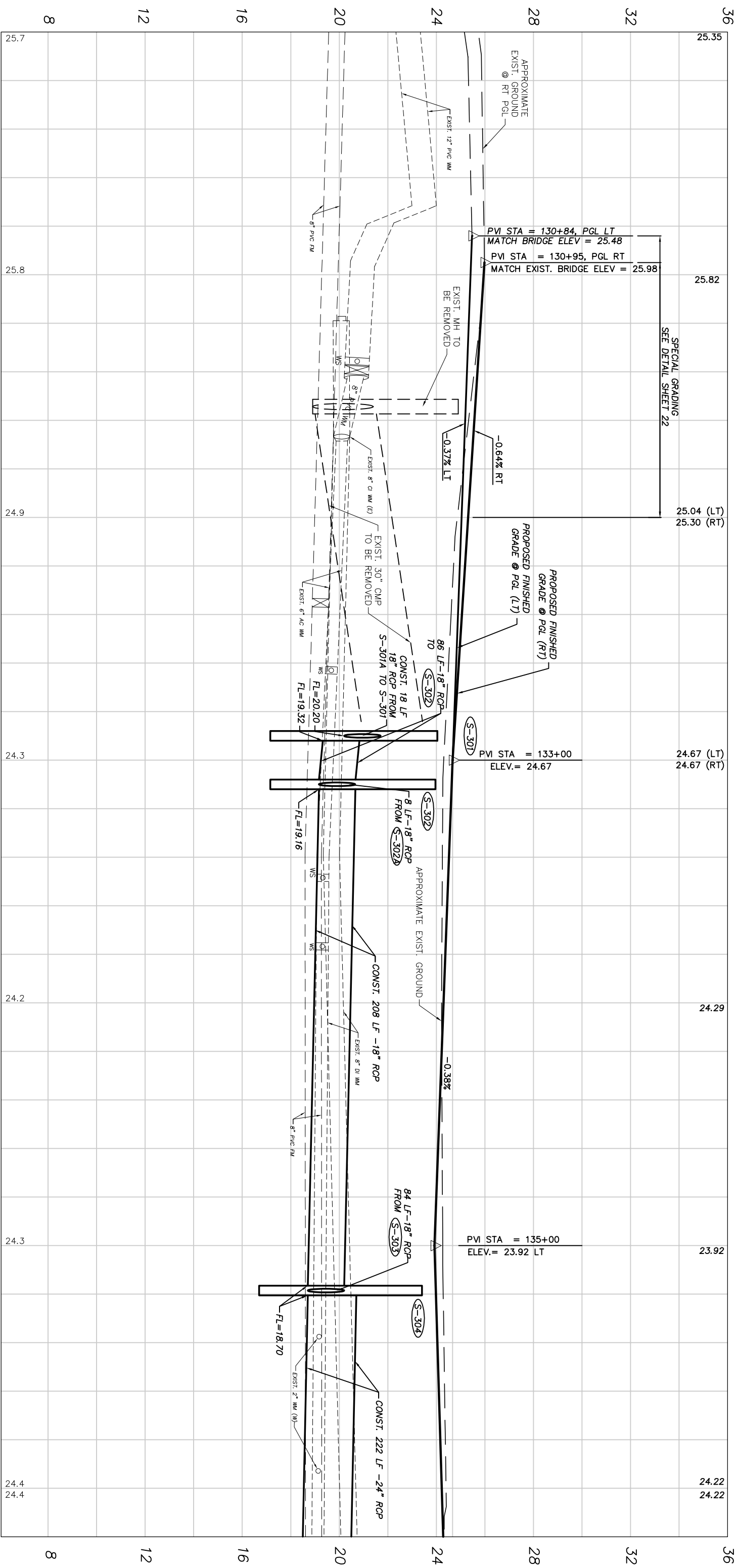
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INDIAN RIVER COUNTY
 FLORIDA
 Department of Public Works
 Engineering Division

Scale:	1" = 4' VERT. 1" = 40' HORIZ.
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Project:
 PROFILE SHEETS
 FOR
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130+00 131+00 132+00 133+00 134+00 135+00 136+00

43RD AVENUE


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No: _____

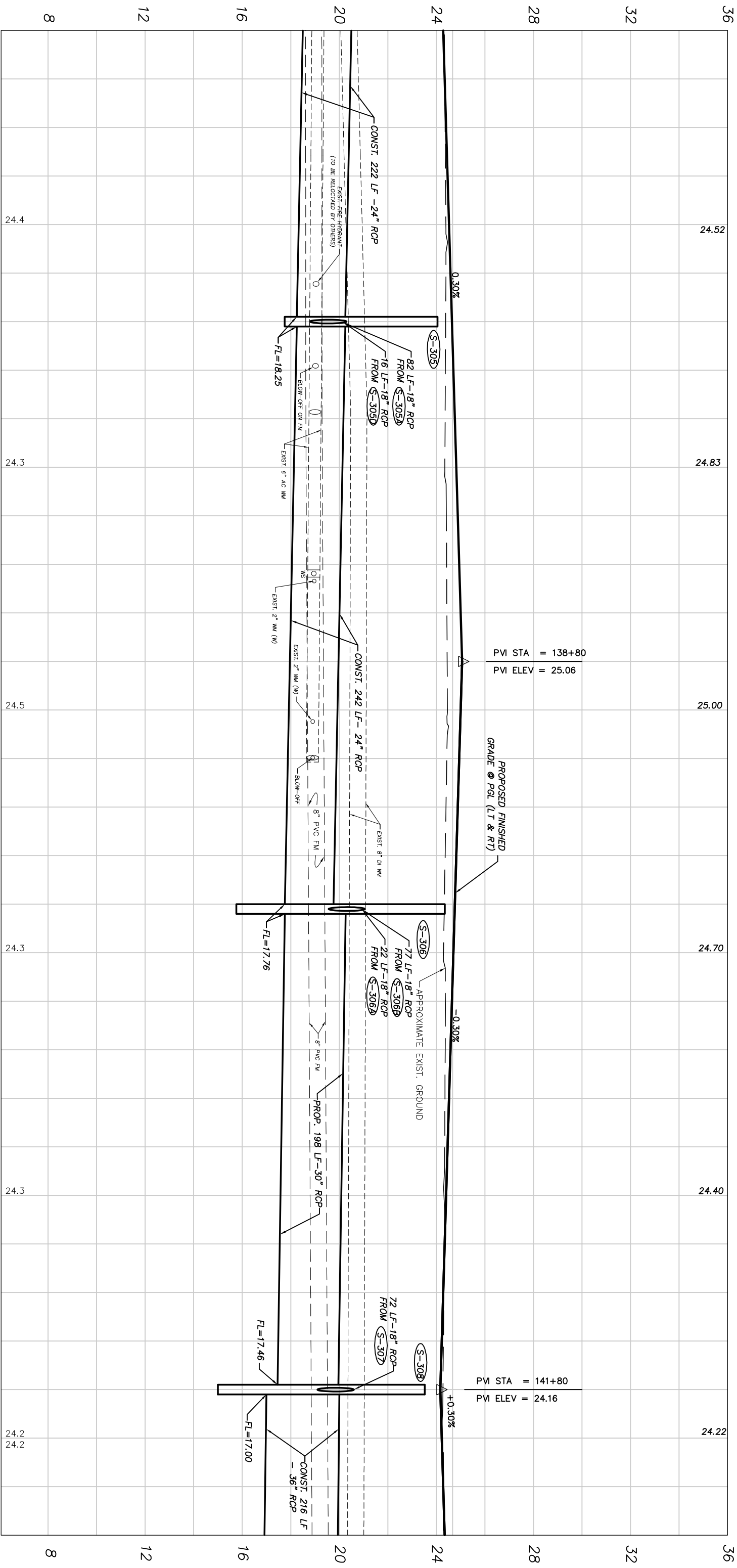
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FOR
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137+00

138+00

139+00

140+00

141+00

142+00

43RD AVENUE

PVI STA = 138+80
PVI ELEV = 25.06


PROPOSED FINISHED
GRADE @ PGL (LT & RT)

APPROXIMATE EXIST. GROUND

PVI STA = 141+80
PVI ELEV = 24.16


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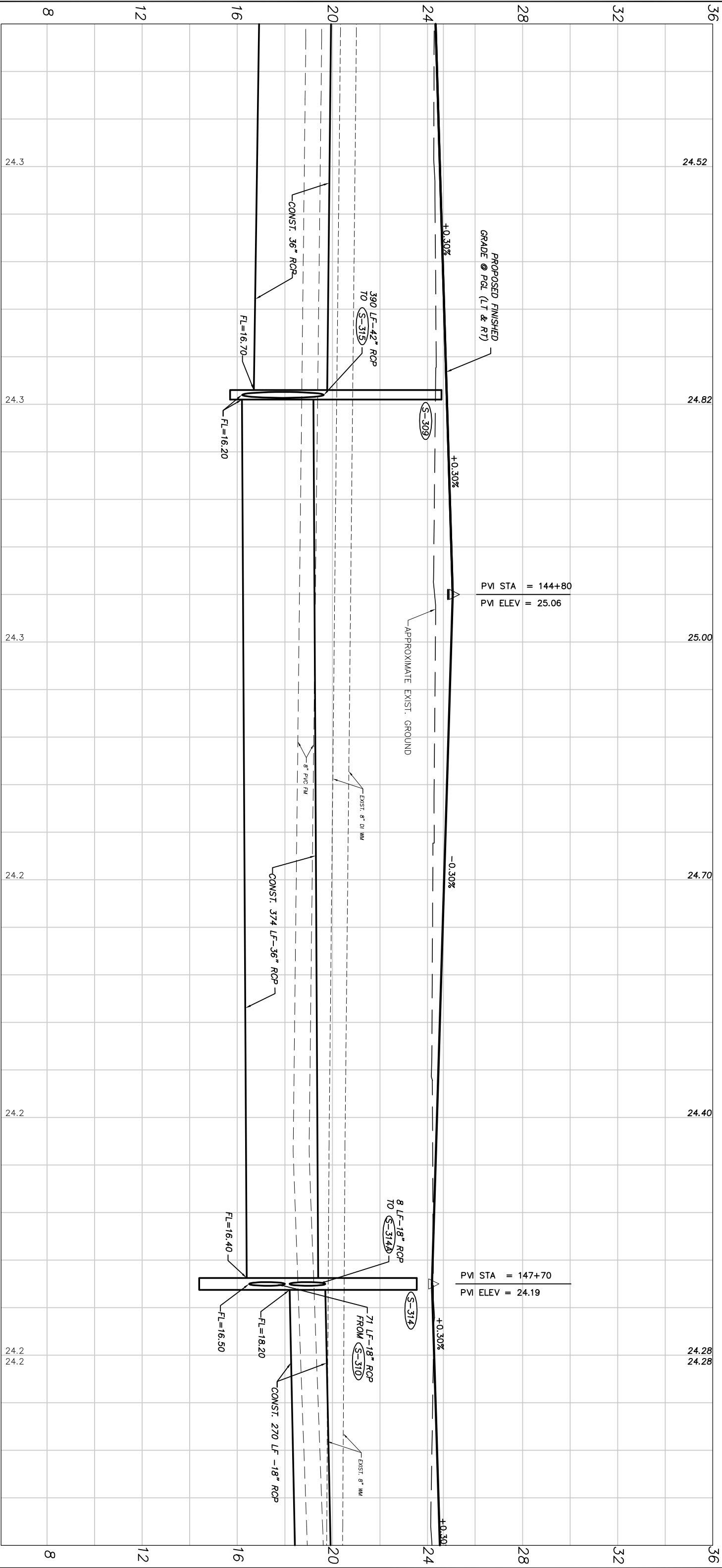
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 1" = 40' HORIZ.
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Project: PROFILE SHEETS
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143+00 144+00 145+00 146+00 147+00 148+00

43RD AVENUE


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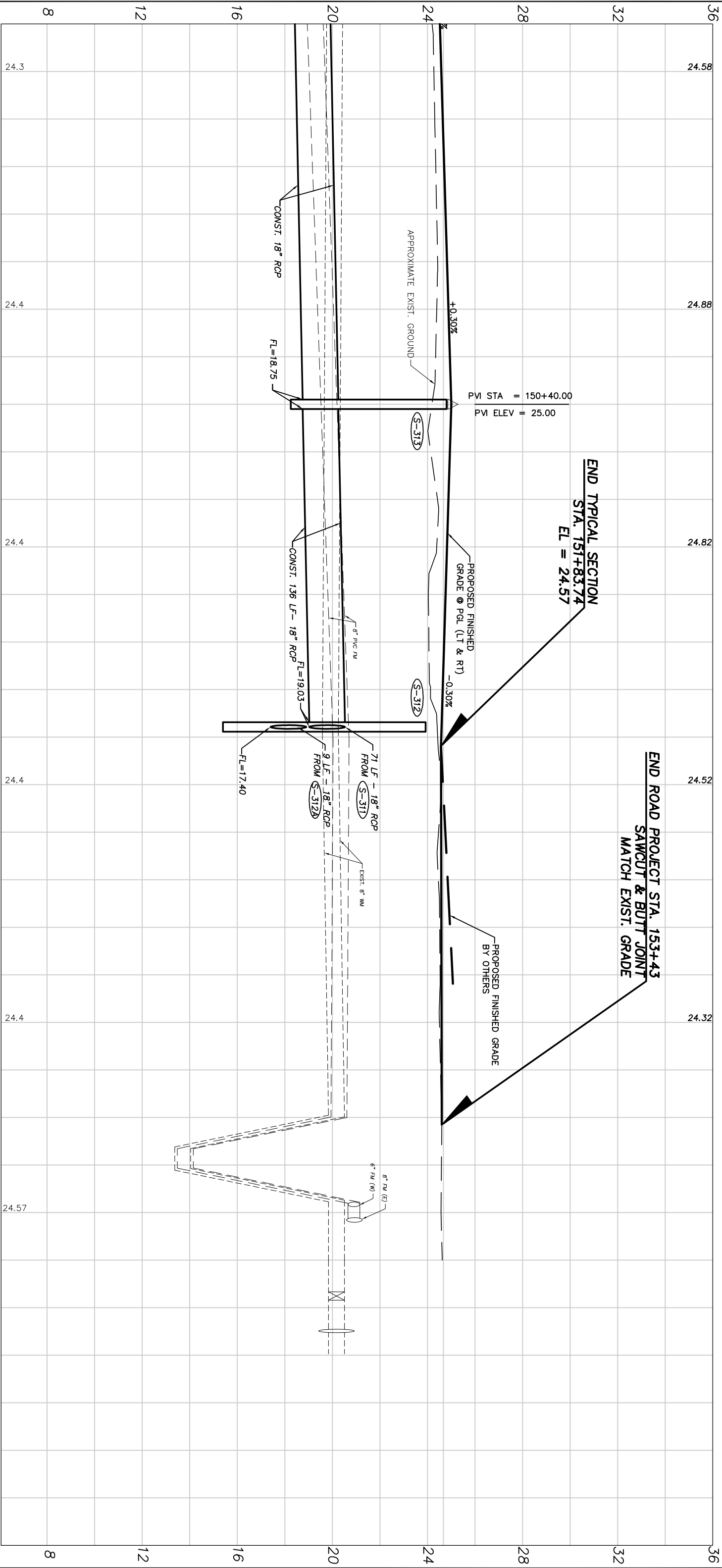
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 Department of Public Works
 Engineering Division

Scale:	1" = 4' VERT. 1" = 40' HORIZ.
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Field Book No.:	


Project: PROFILE SHEETS
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149+00 150+00 151+00 152+00 153+00

43RD AVENUE


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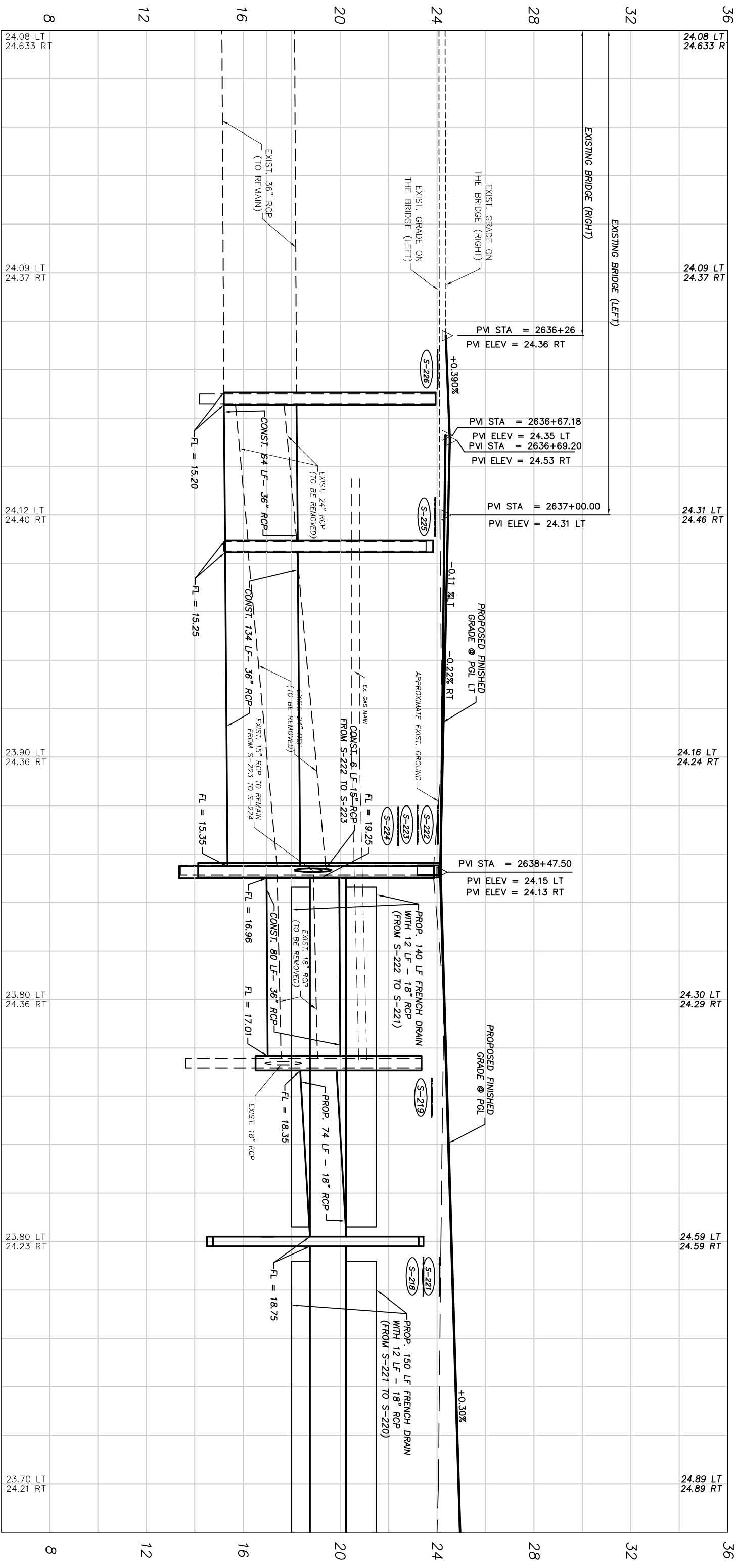
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 1" = 40' HORIZ.
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Project:
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2635+00 2636+00 2637+00 2638+00 2639+00 2640+00 2641+00

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Department of Public Works
Engineering Division

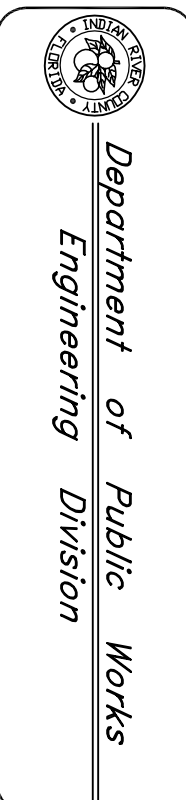
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 Date: 6/2017
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Project: **PROFILE SHEETS FOR SR 60 & 43RD AVENUE**

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No: _____

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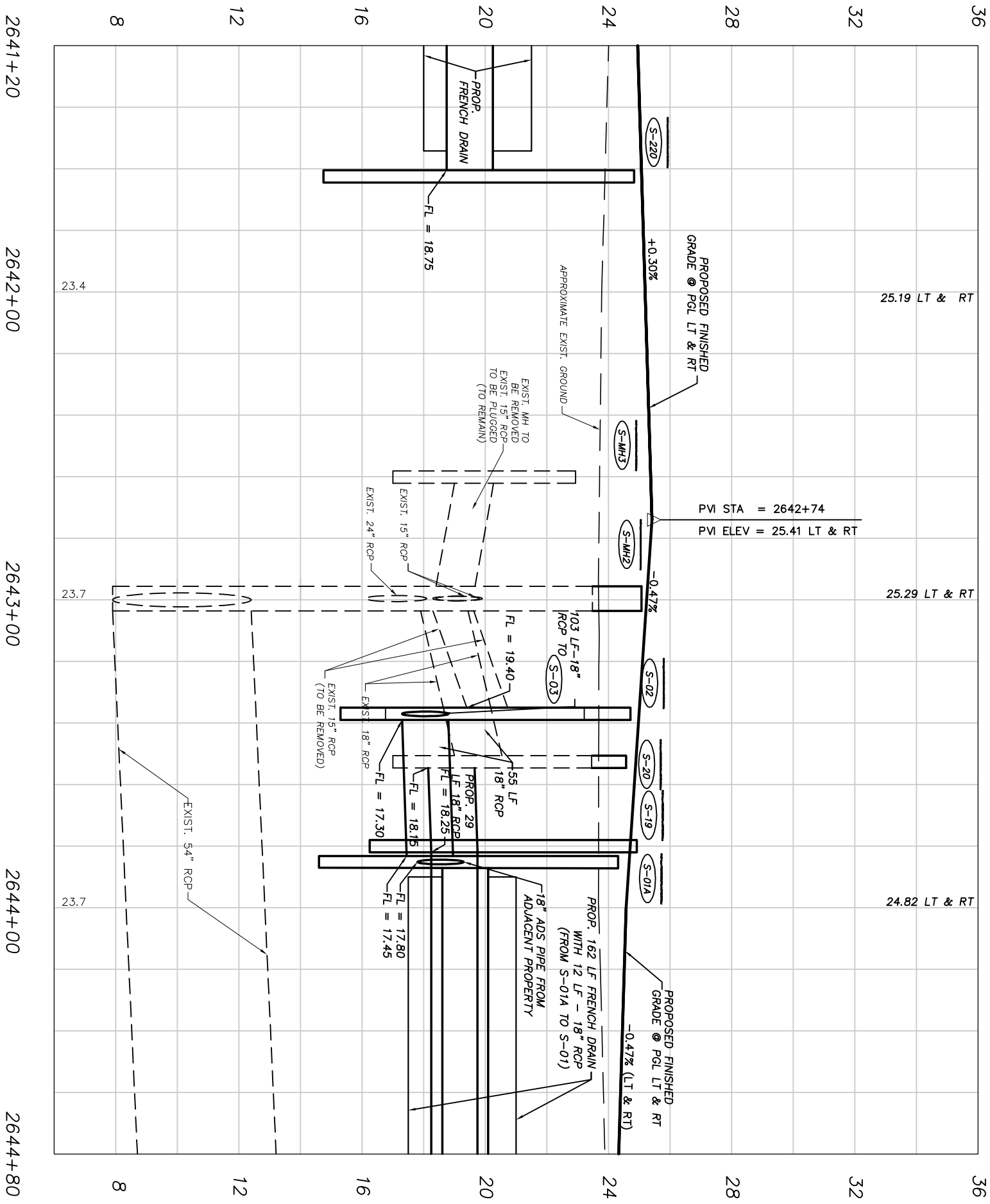


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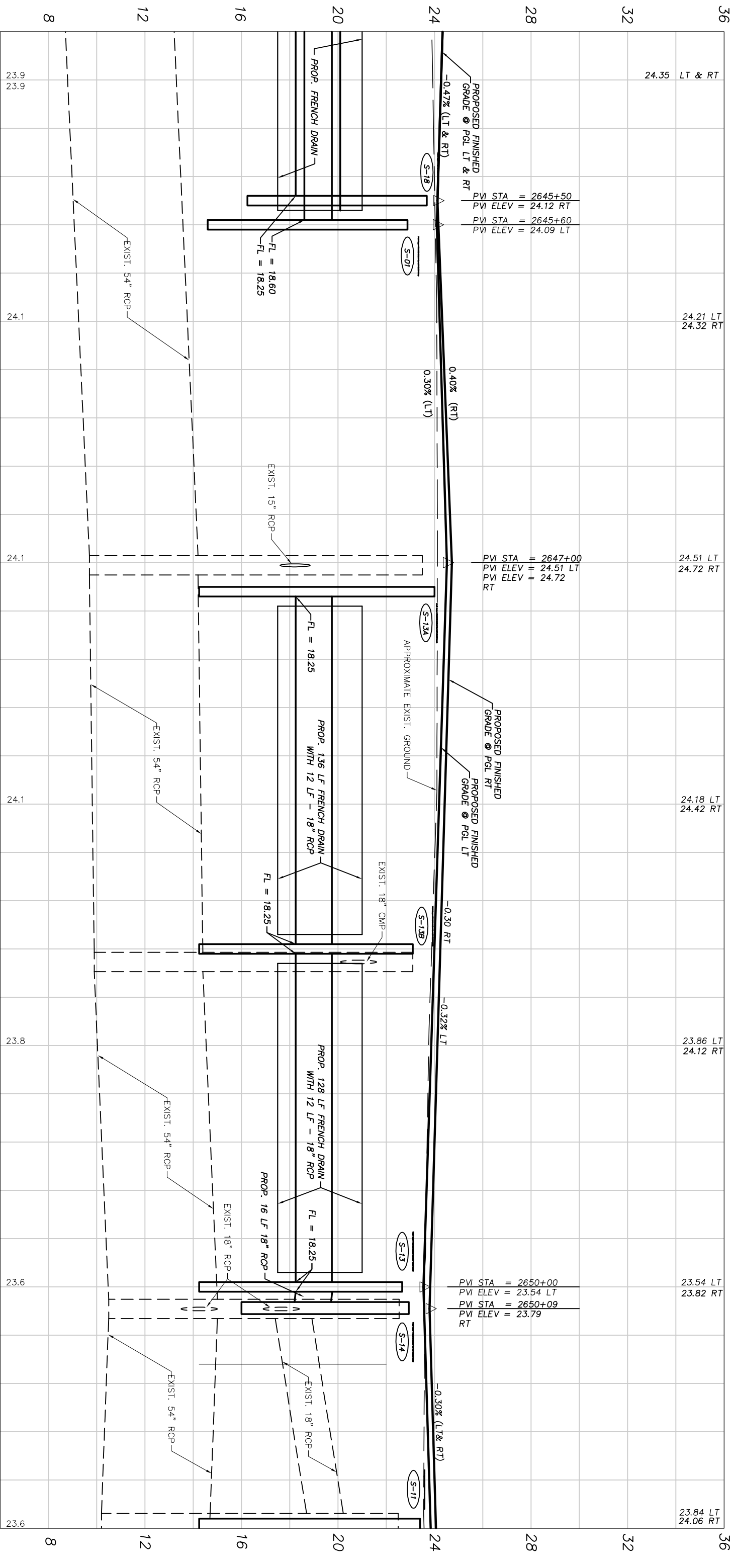
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Project: PROFILE SHEETS
 FOR SR 60 & 43RD AVENUE

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SR 60



2645+00 2646+00 2647+00 2648+00 2649+00 2650+00 2651+00

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 1" = 40' HORIZ.
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 Drawn: FM
 Checked: HWD
 Date: 6/2017
 Field Book No.:

Project: **PROFILE SHEETS FOR SR 60 & 43RD AVENUE**

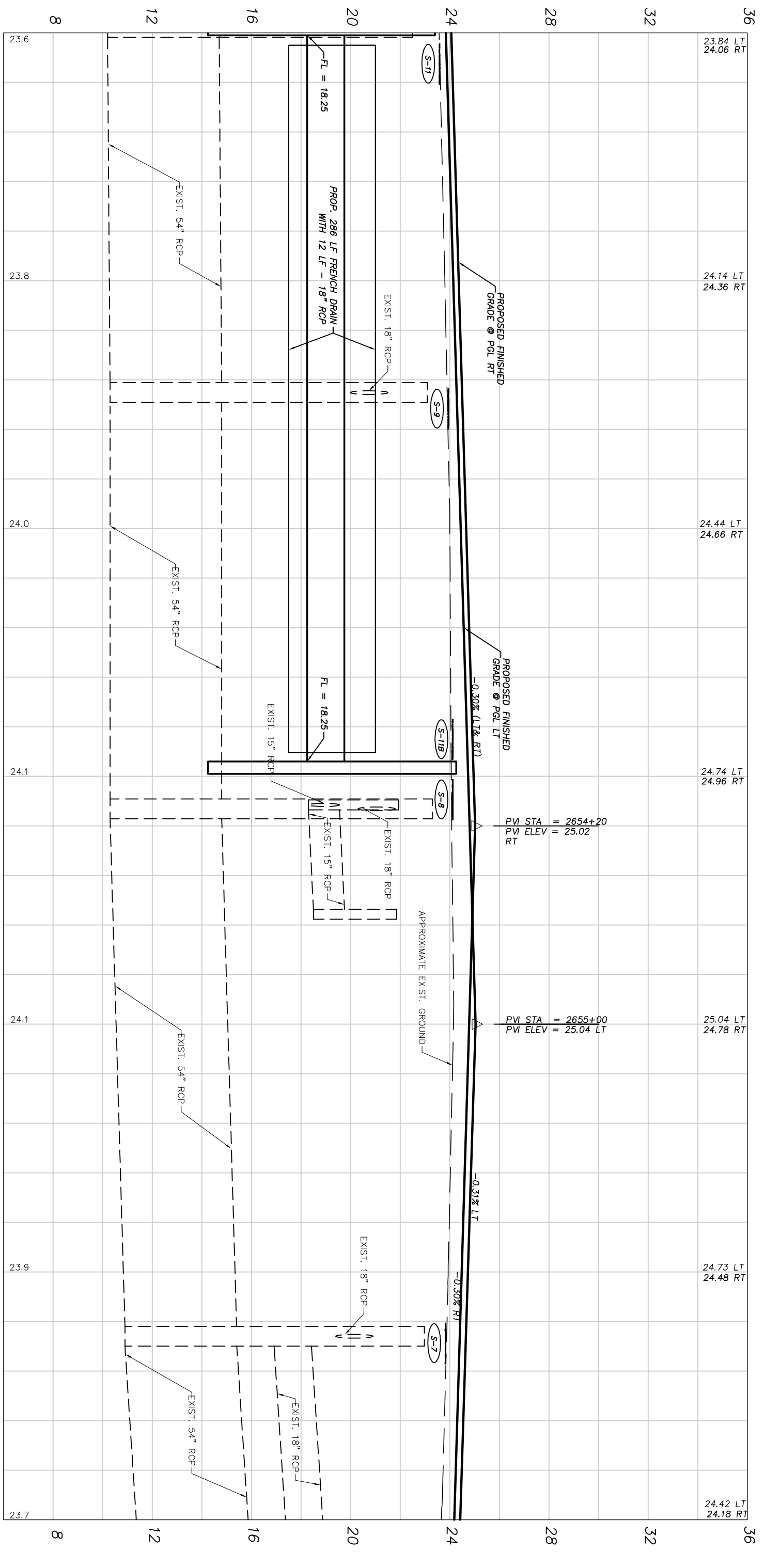
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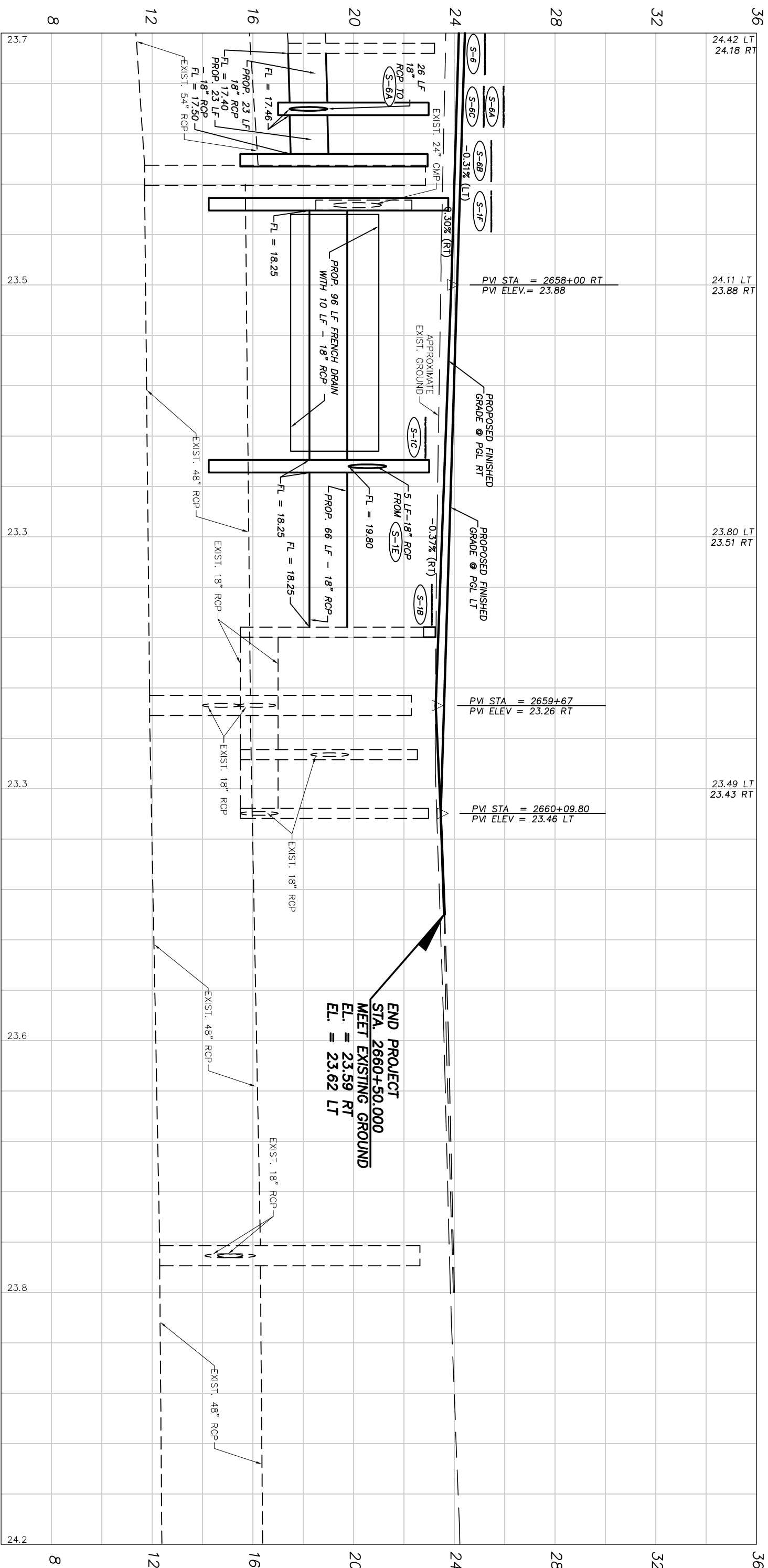
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No.:	Revision:	By:	Date:

Scale: 1" = 4' VERT.
 1" = 40' HORIZ.
 Approved: HWD
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2651+00 2652+00 2653+00 2654+00 2655+00 2656+00 2657+00
 SR 60






2657+00 2658+00 2659+00 2660+00 2661+00 2662+00 2663+00

SR 60


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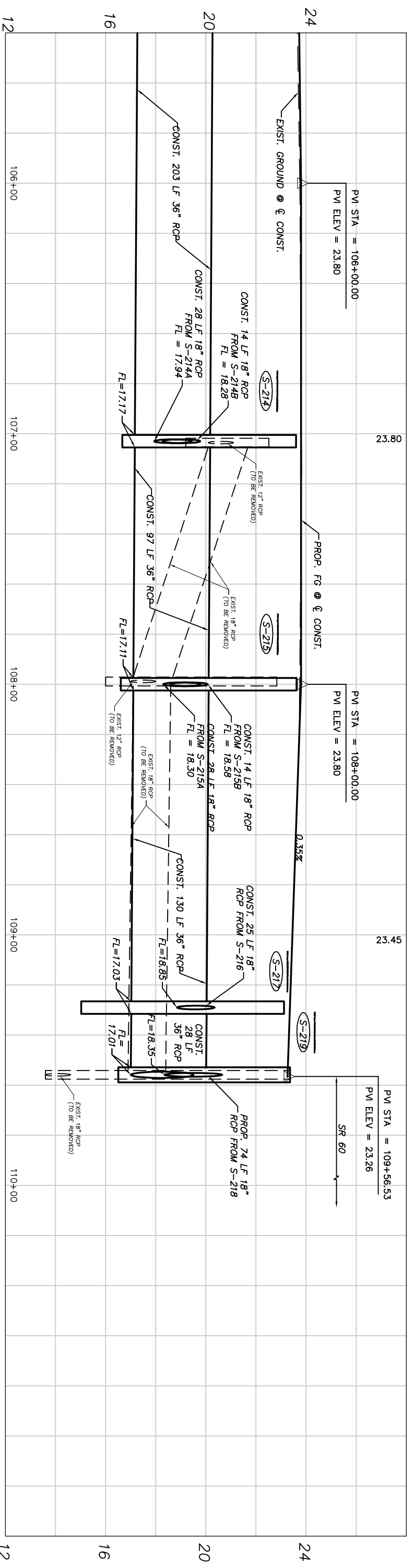
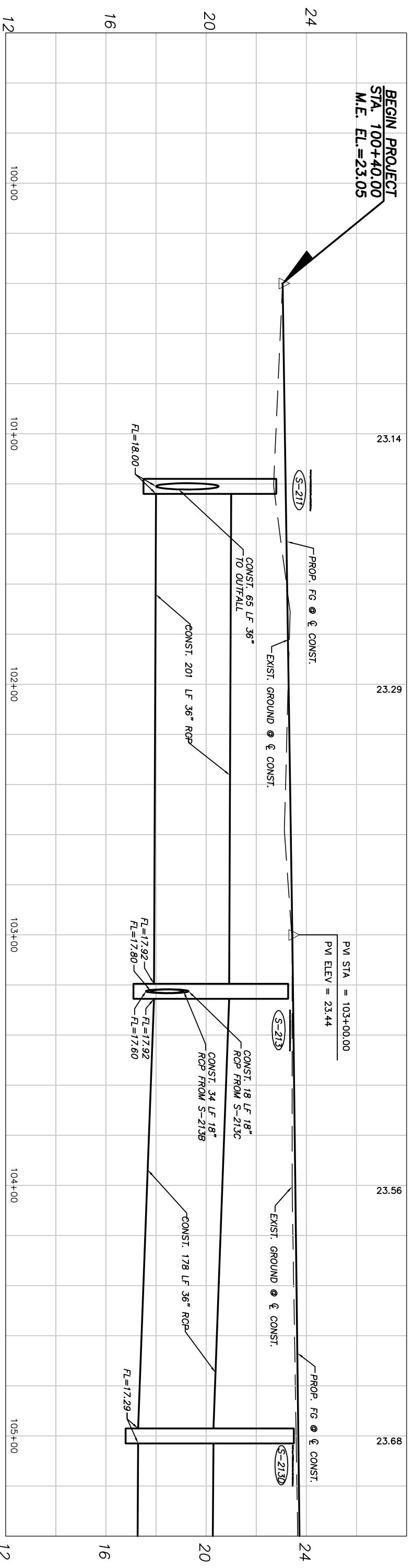
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44TH AVENUE PROFILE


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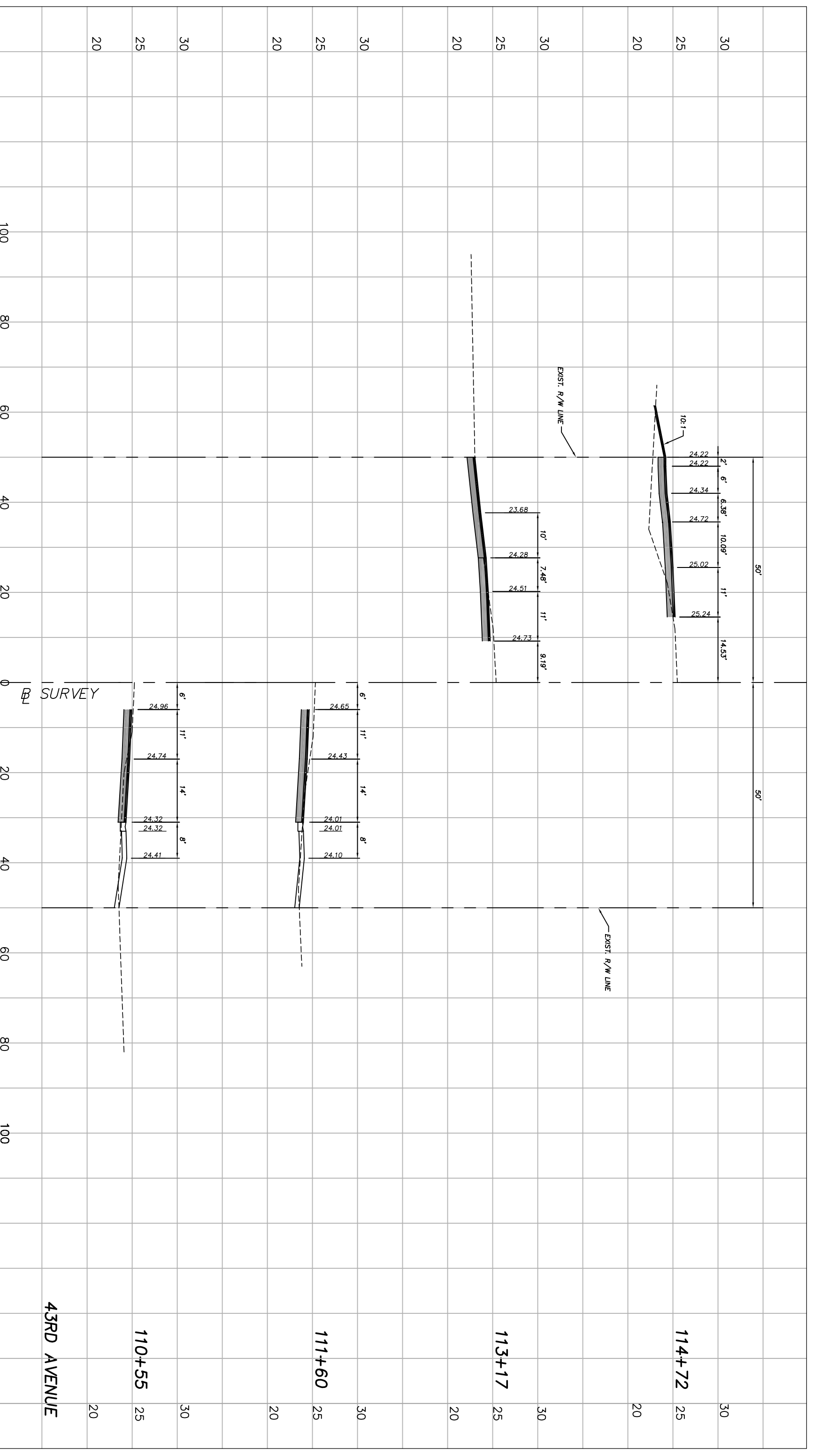
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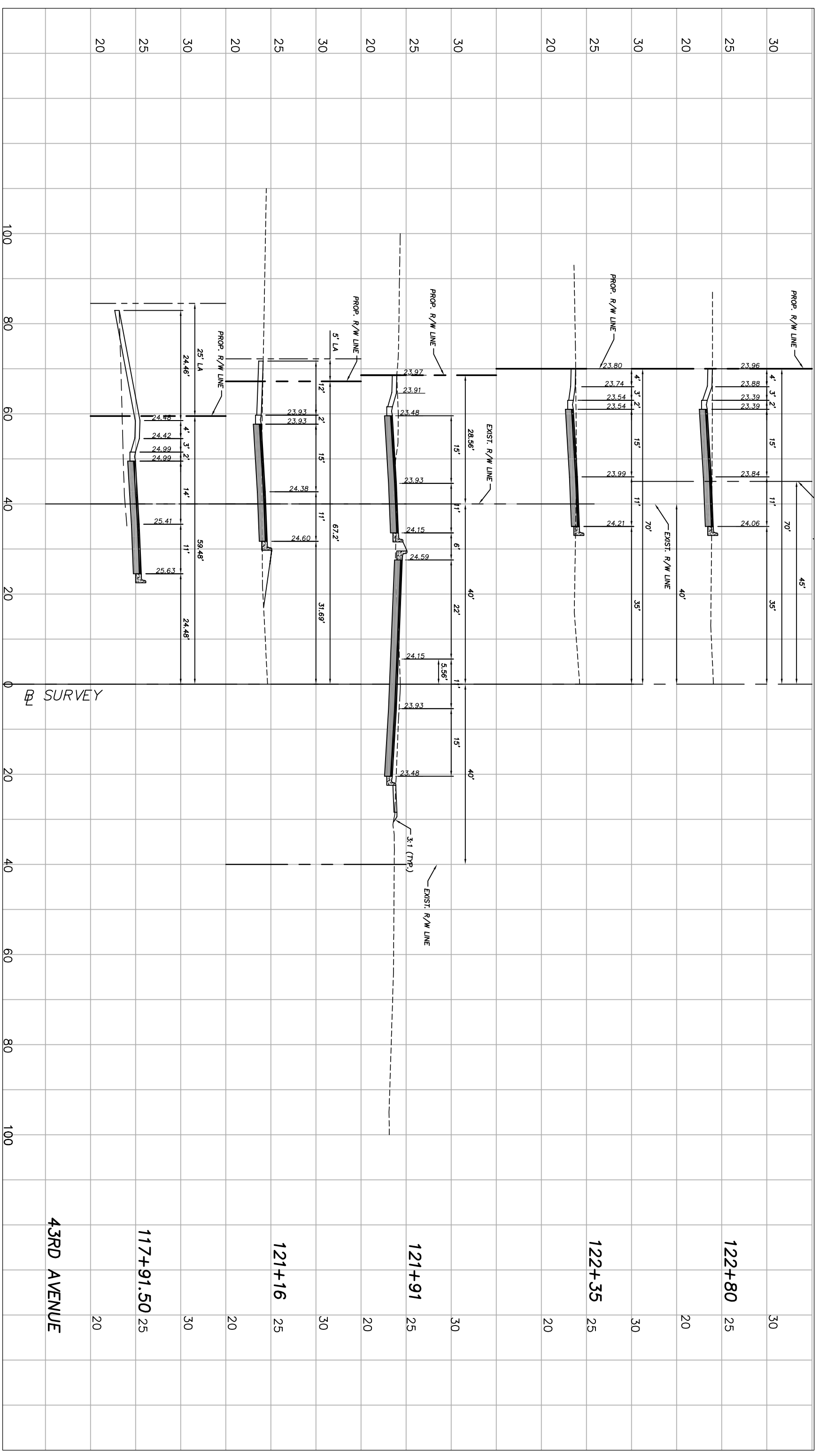

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Scale:	1" = 4' VERT. 1" = 40' HORIZ.
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Project: **PROFILE SHEETS FOR SR 60 & 43RD AVENUE**


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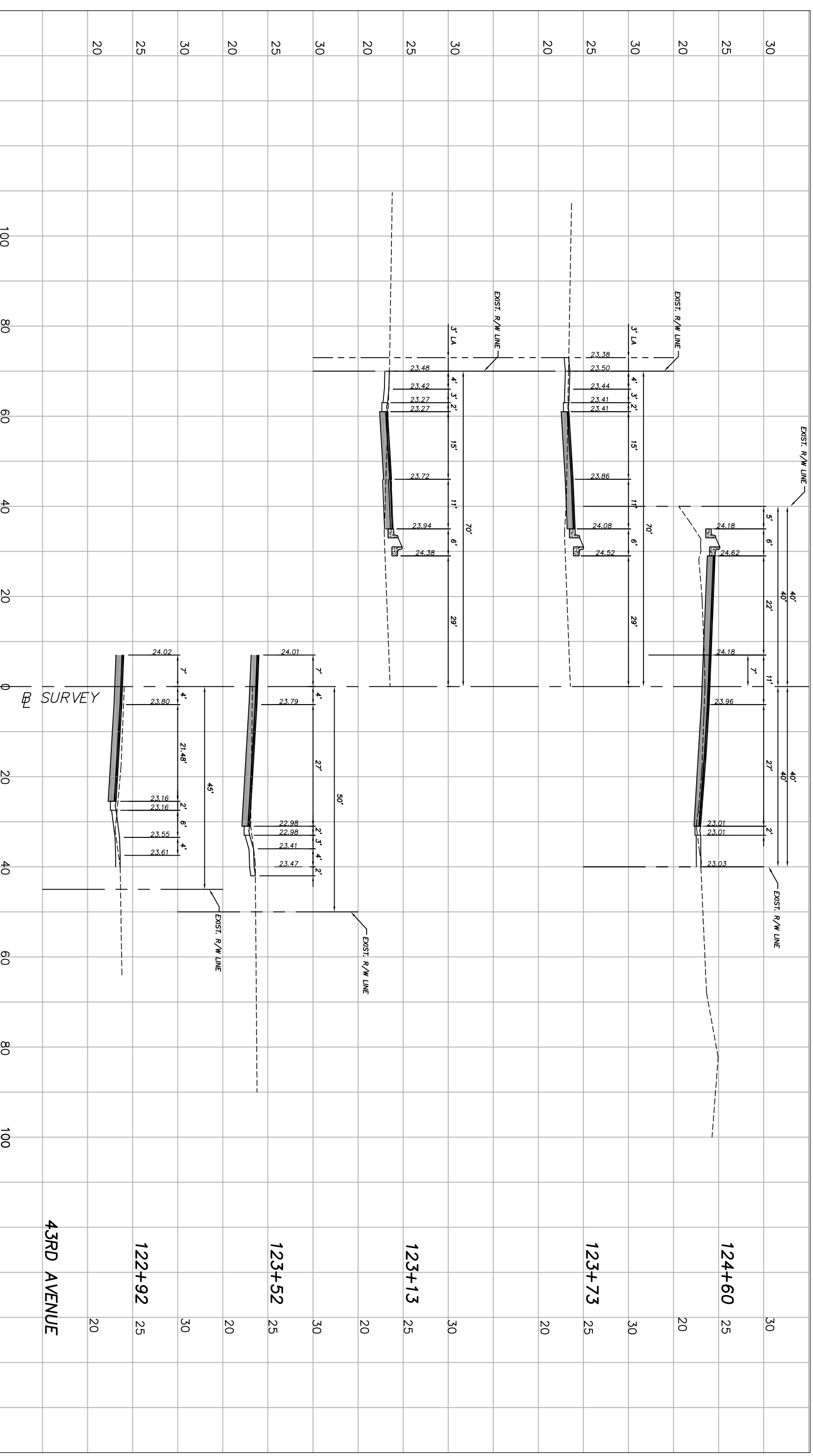
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Scale: 1"=10' VERT.
 1"=20' HORIZ.
 Approved: HMD
 Drawn: FM
 Checked: HMD
 Date: 6/2017
 Field Book No:

Project:
DRIVEWAY PROFILES
FOR
SR 60 & 43RD AVENUE

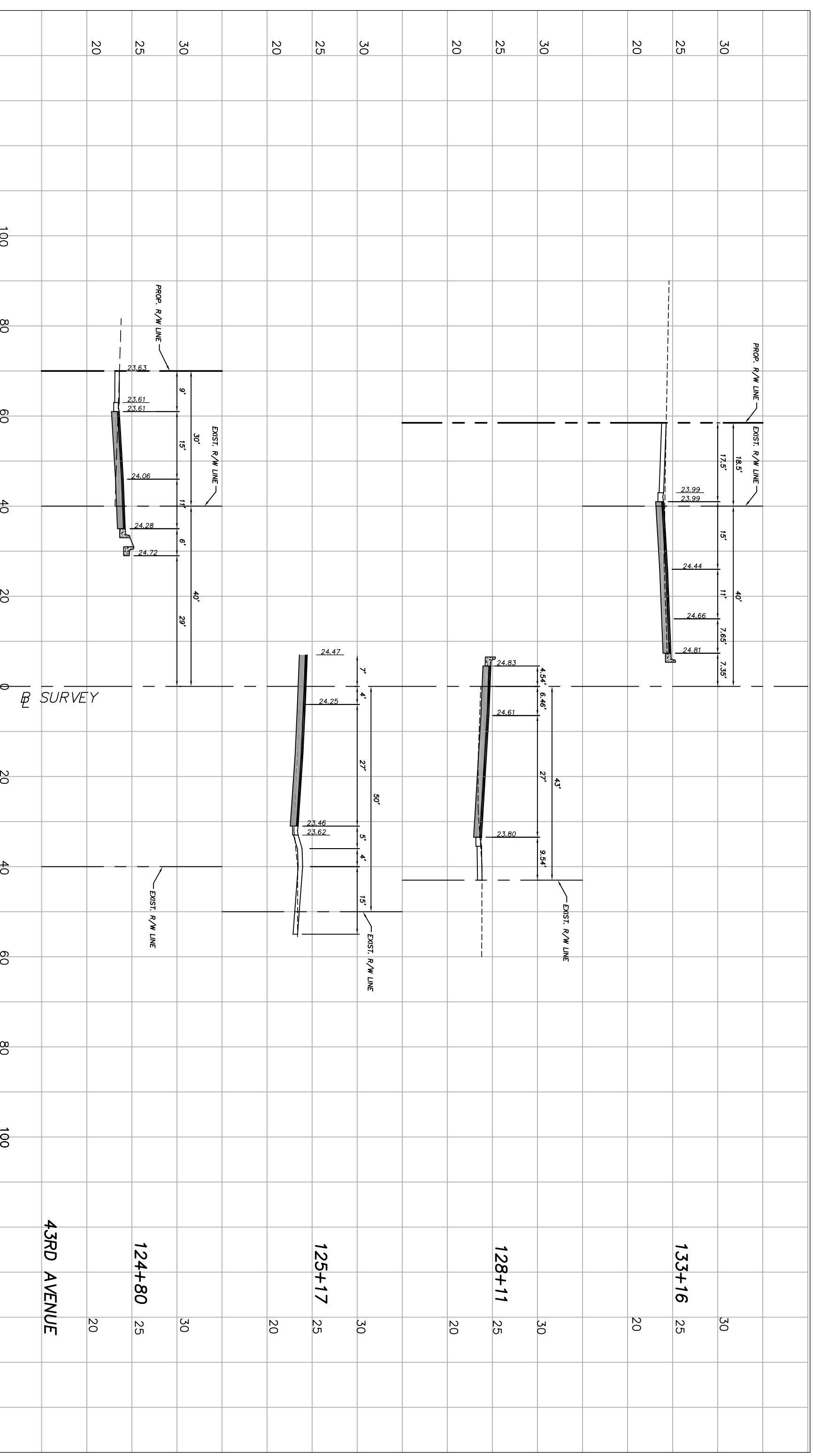
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 LNW# WP1027



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Project: DRIVEWAY PROFILES
 FOR SR 60 & 43RD AVENUE



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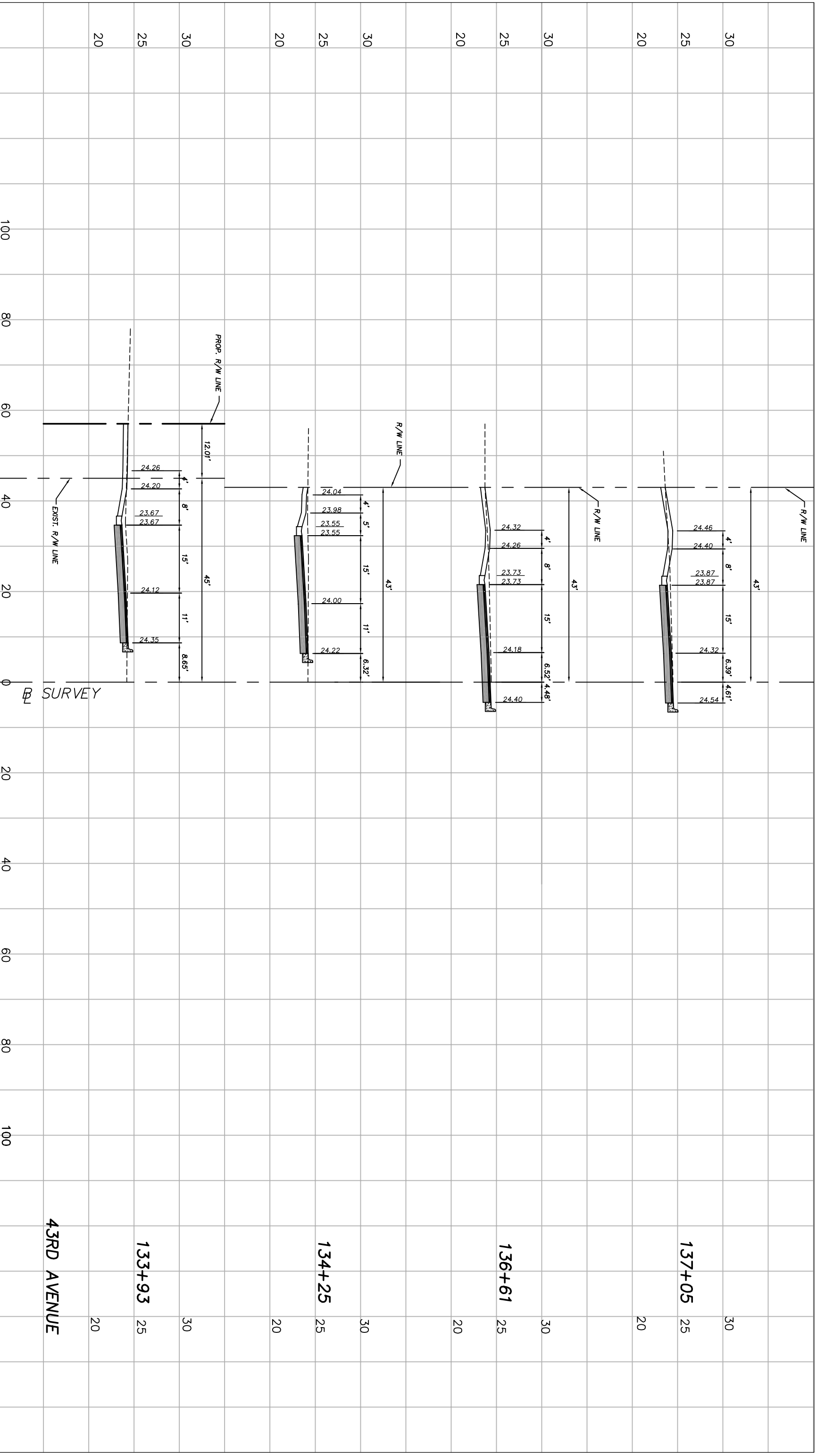
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Project: DRIVEWAY PROFILES
 FOR SR 60 & 43RD AVENUE

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No.:

Revision:

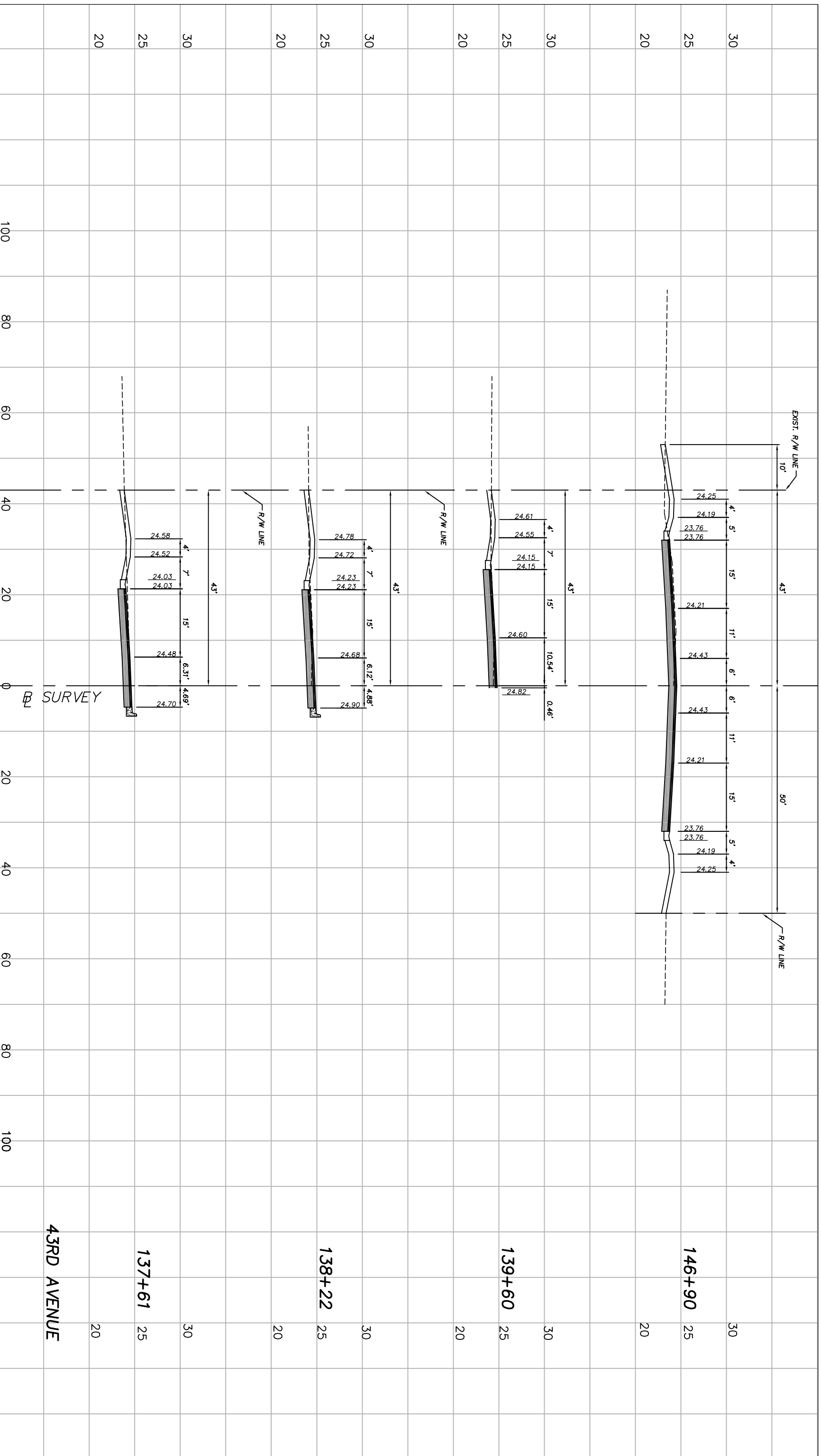
By:

Date:


Scale: 1"=10' VERT.
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 Approved: HMD
 Drawn: FM
 Checked: HMD
 Date: 6/2017
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Project:
 DRIVEWAY PROFILES
 FOR
 SR 60 & 43RD AVENUE

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 LNW# WP1027



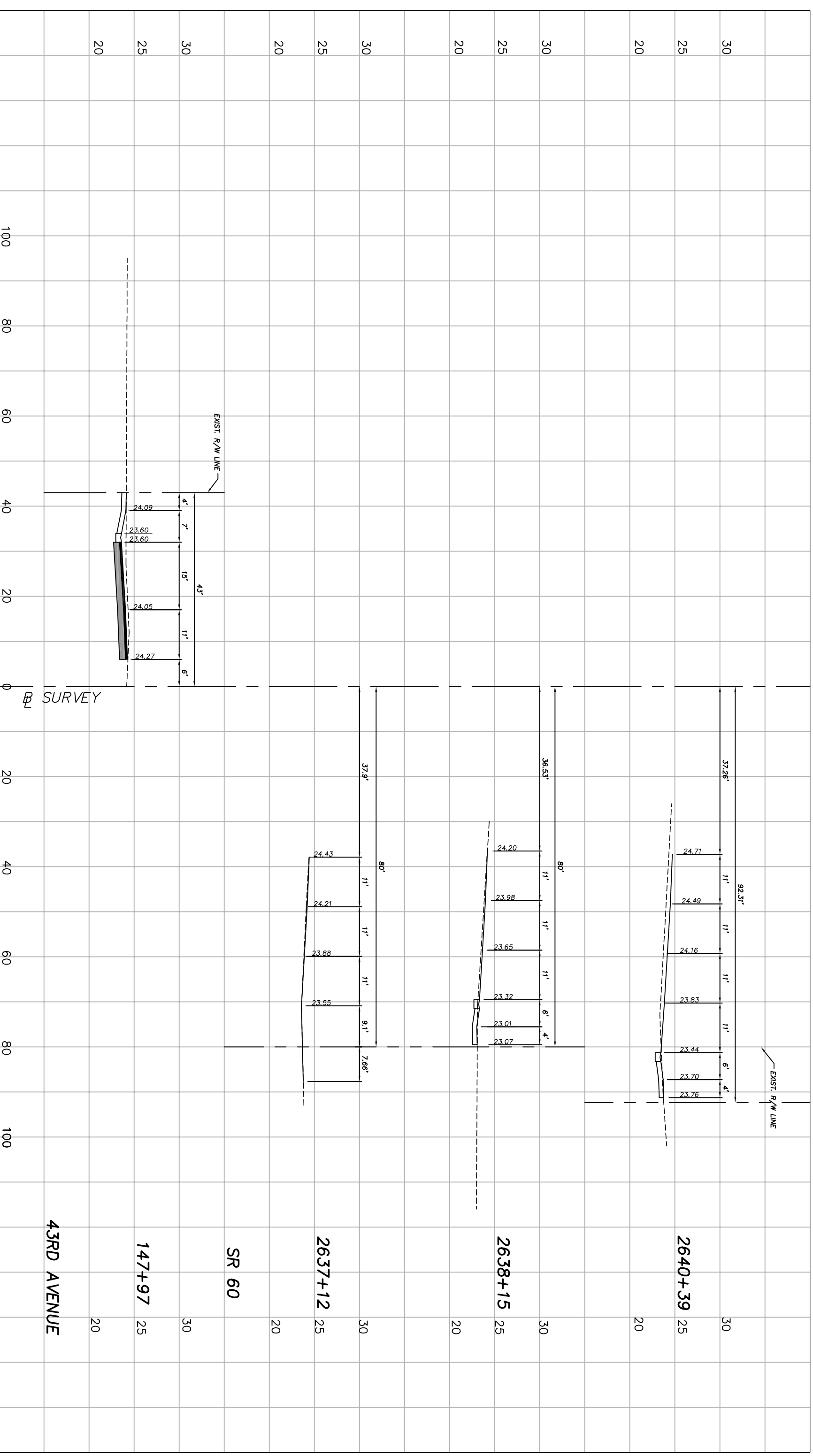
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Scale:	1"=10' VERT. 1"=20' HORIZ.
Approved:	HWD
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Checked:	HWD
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Project:
 DRIVEWAY PROFILES
 FOR
 SR 60 & 43RD AVENUE


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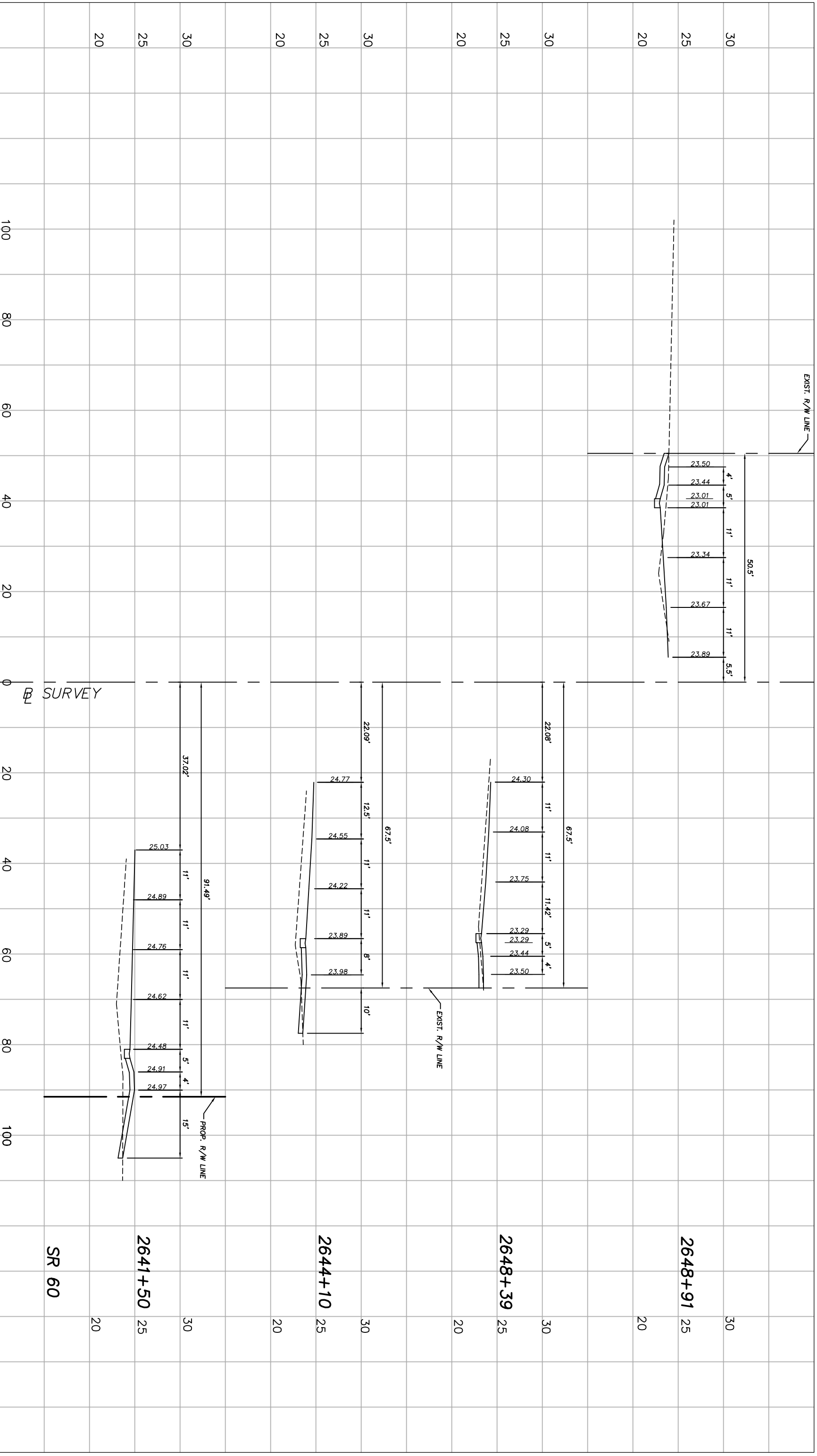
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 By: _____ Date: _____


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Scale: 1"=10' VERT.
 1"=20' HORIZ.
 Approved: HMD
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Project: DRIVEWAY PROFILES
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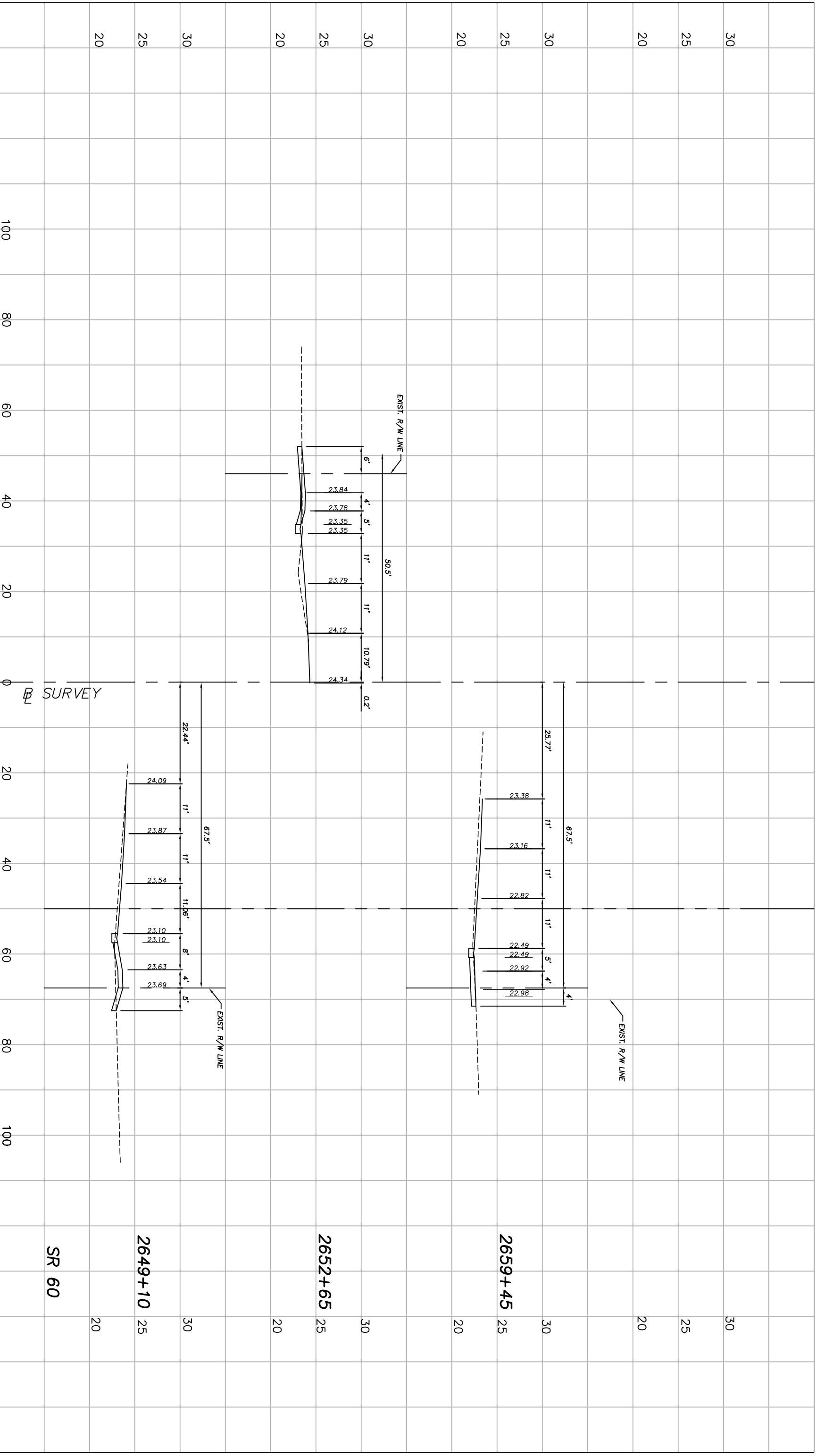
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Project: **DRIVEWAY PROFILES**
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SR 60 & 43RD AVENUE

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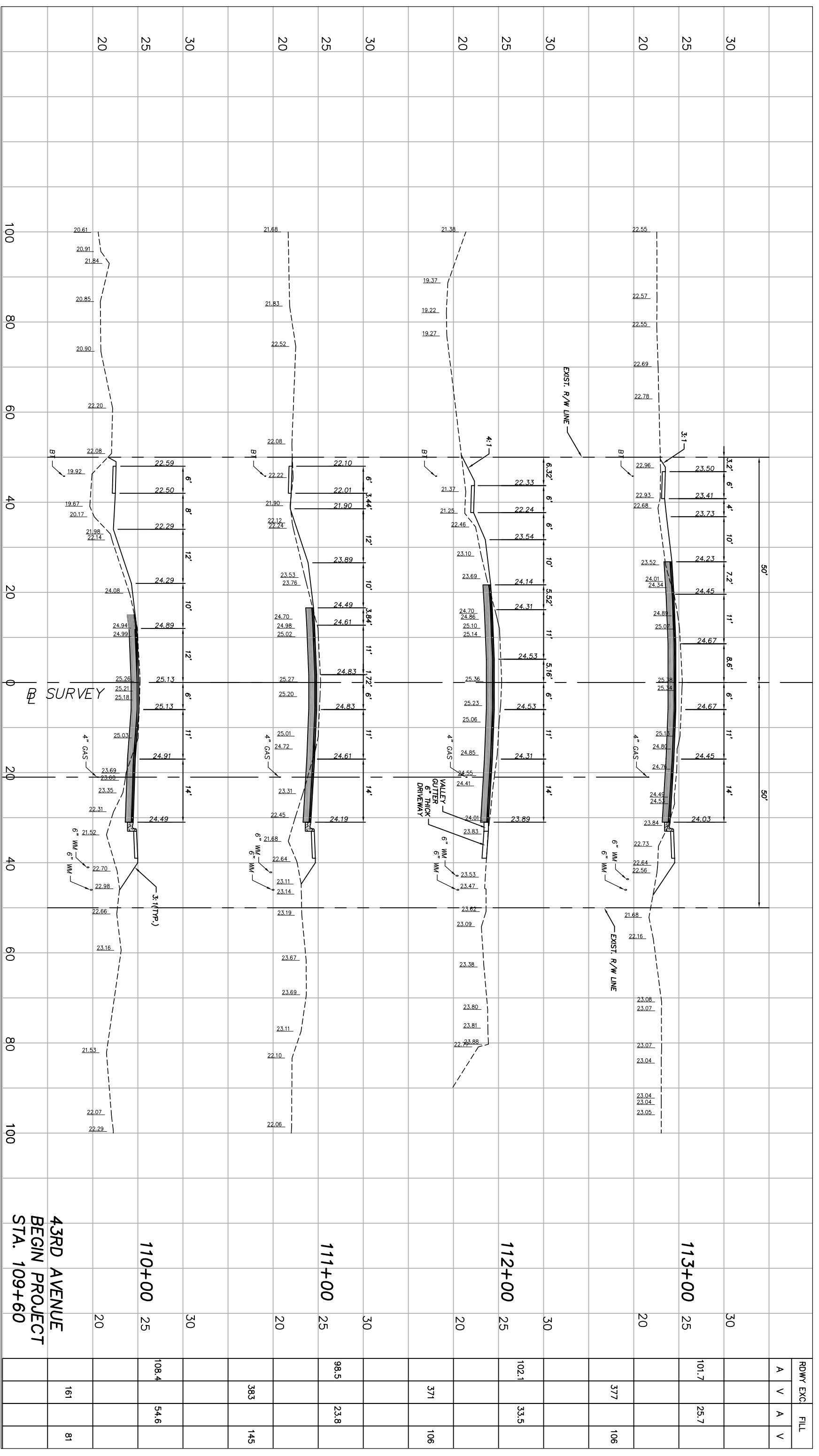
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Project:
 CROSS SECTIONS
 FOR
SR 60 & 43RD AVENUE

Sheet:	67
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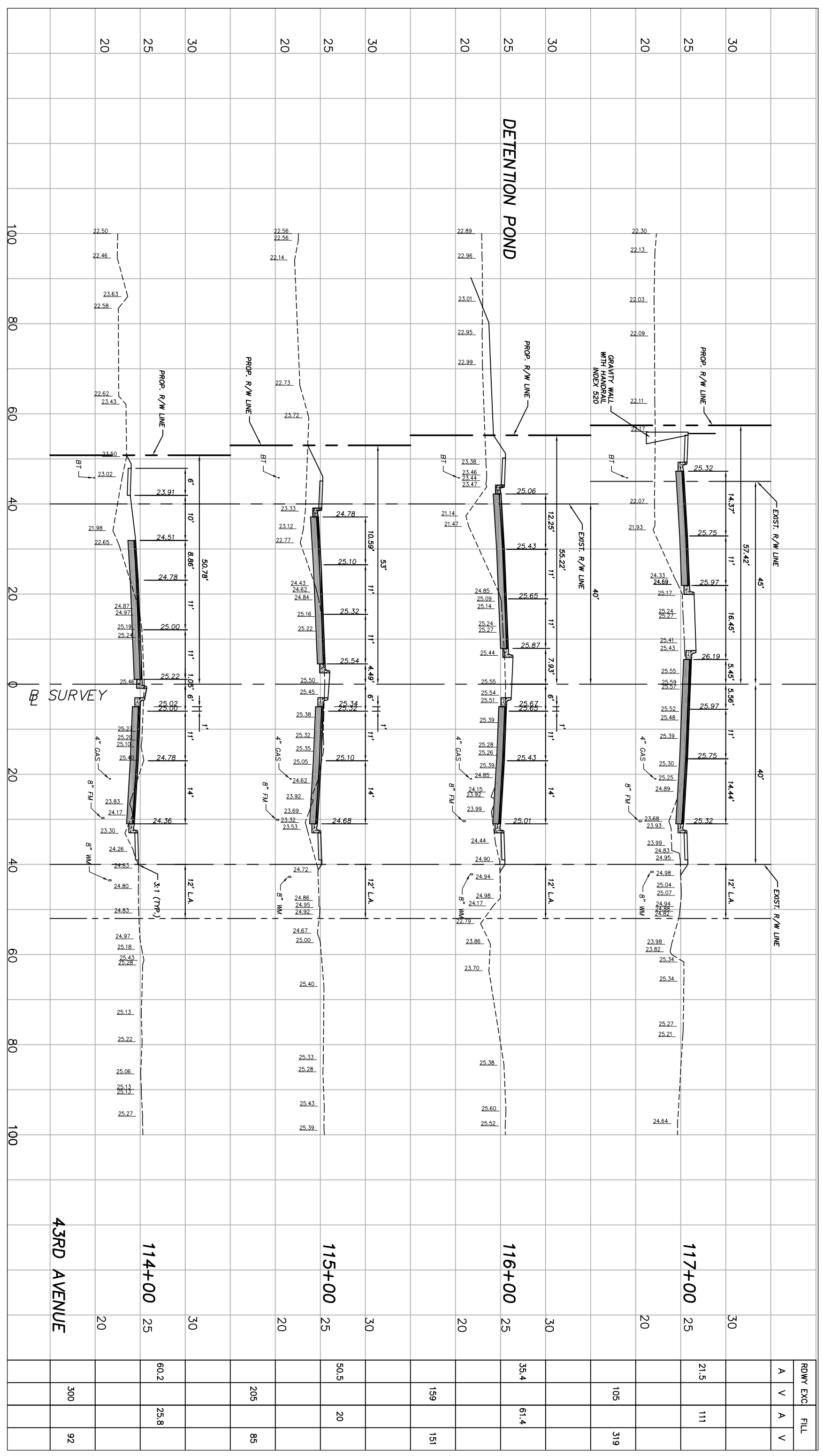


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Project: **CROSS SECTIONS FOR SR 60 & 43RD AVENUE**

Sheet:	68
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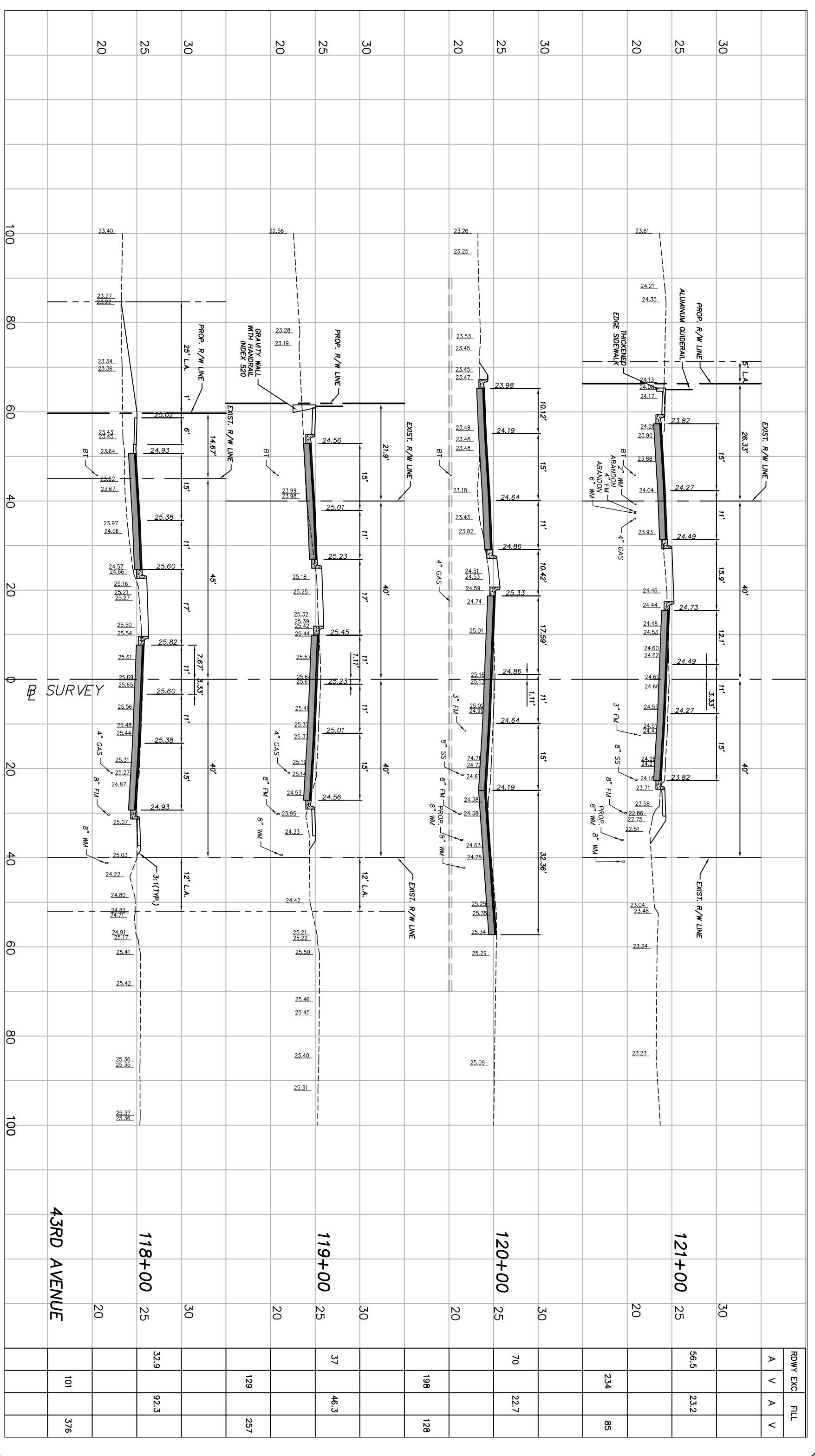
Station	Width	Area	Excavation	Fill
114+00	20	60.2	25.8	300
115+00	25	50.5	20	85
116+00	25	35.4	61.4	159
117+00	25	21.5	111	319

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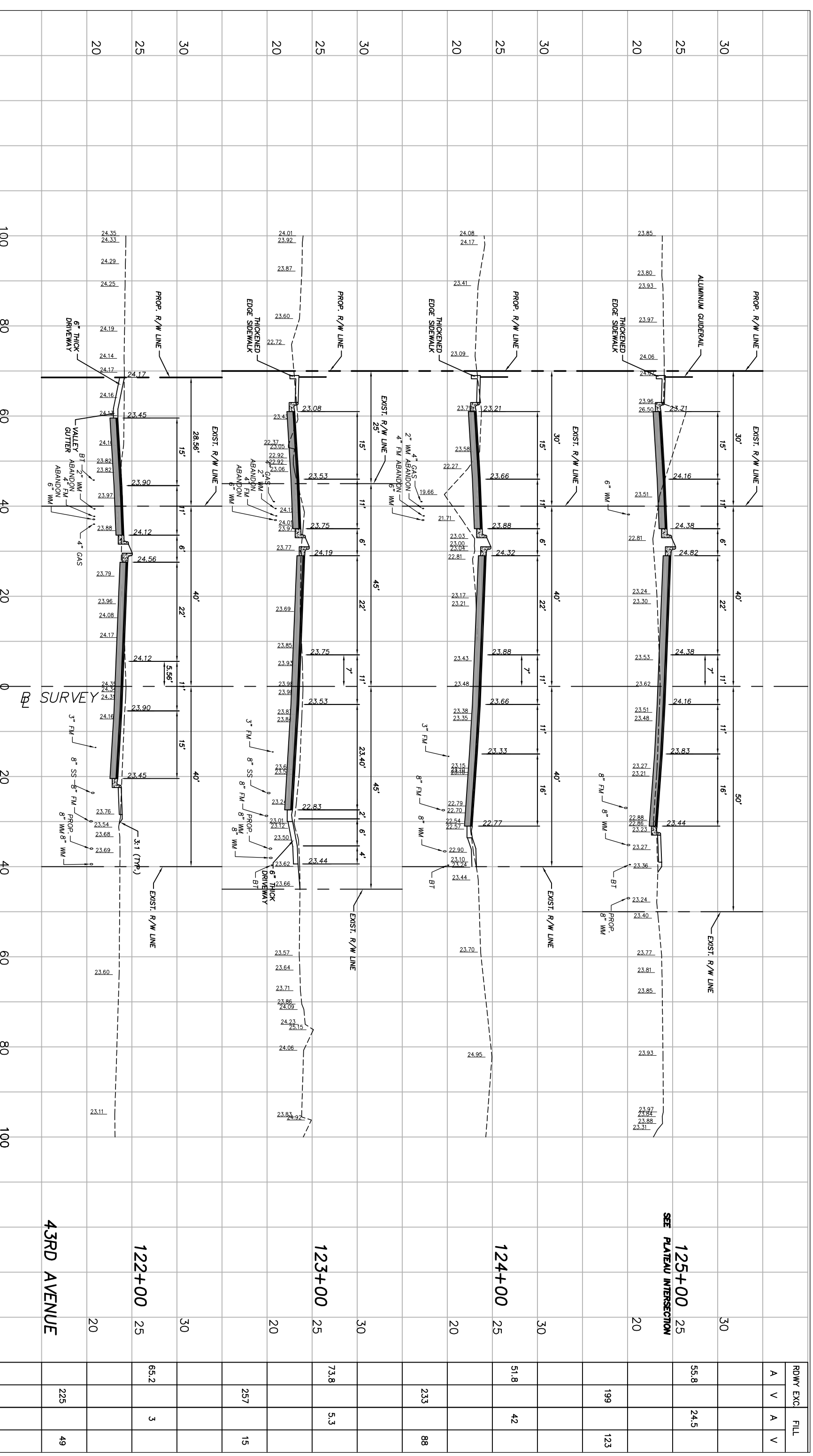
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Date:	6/2017
Field Book No.:	

Project:	CROSS SECTIONS
	FOR
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Station	R/W	RDWY EXC.		FILL	
		A	V	A	V
118+00	25	32.9	92.3	101	376
119+00	25	37	46.3	129	257
120+00	25	70	22.7	198	128
121+00	25	56.5	23.2	234	85



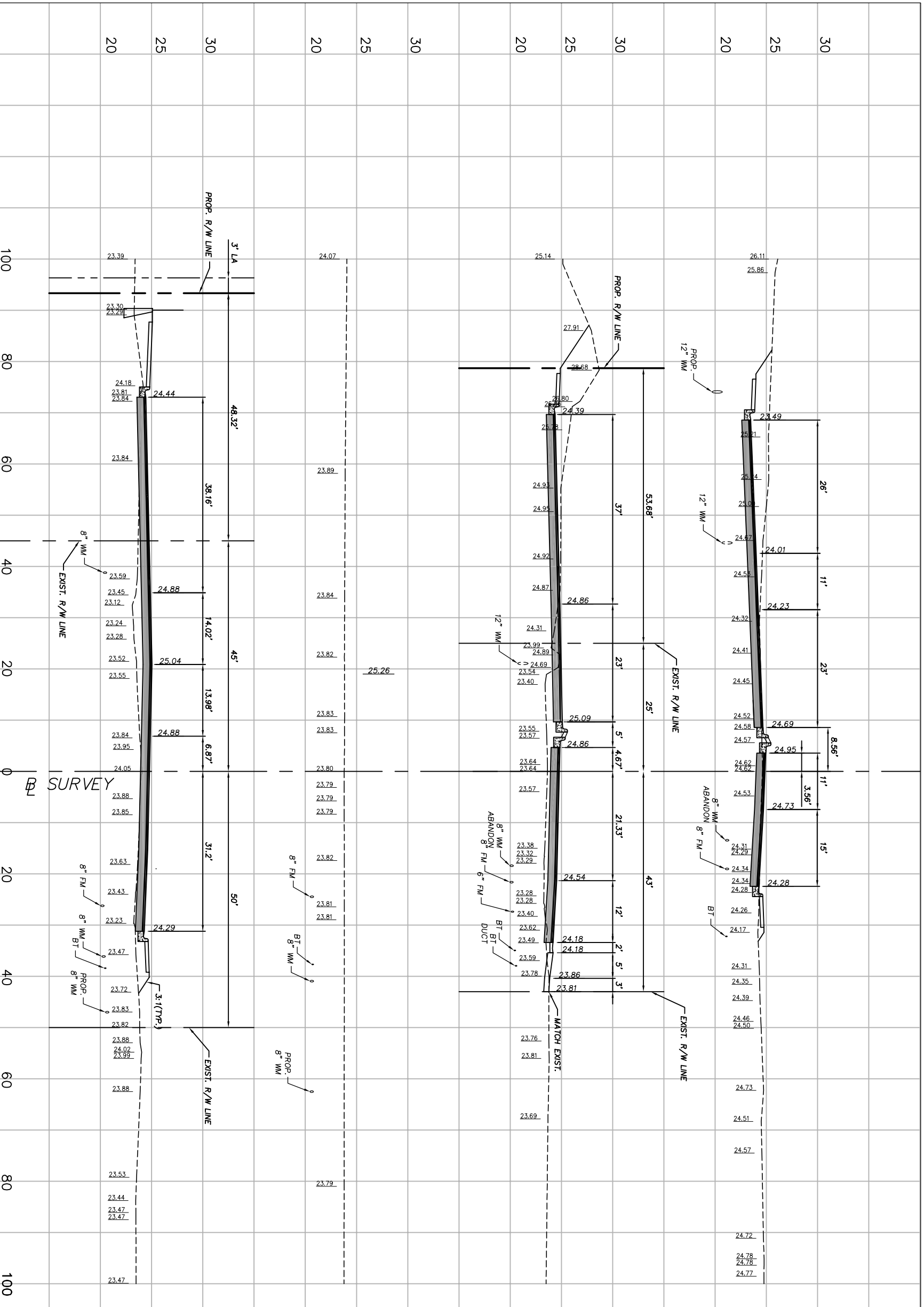
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Scale:	1"=10' VERT. 1"=20' HORIZ.
Approved:	HWD
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Project: CROSS SECTIONS
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Station	Excavation (Exc.)	Fill
125+00	55.8	24.5
124+00	51.8	42
123+00	73.8	5.3
122+00	65.2	3
43RD AVENUE	225	49



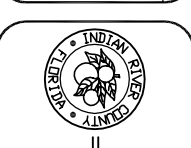
Station	Width	Excavation	Fill
126+00	25	7	39.5
127+00	25	13	73
128+00	25	129	35
129+00	25	173.4	2

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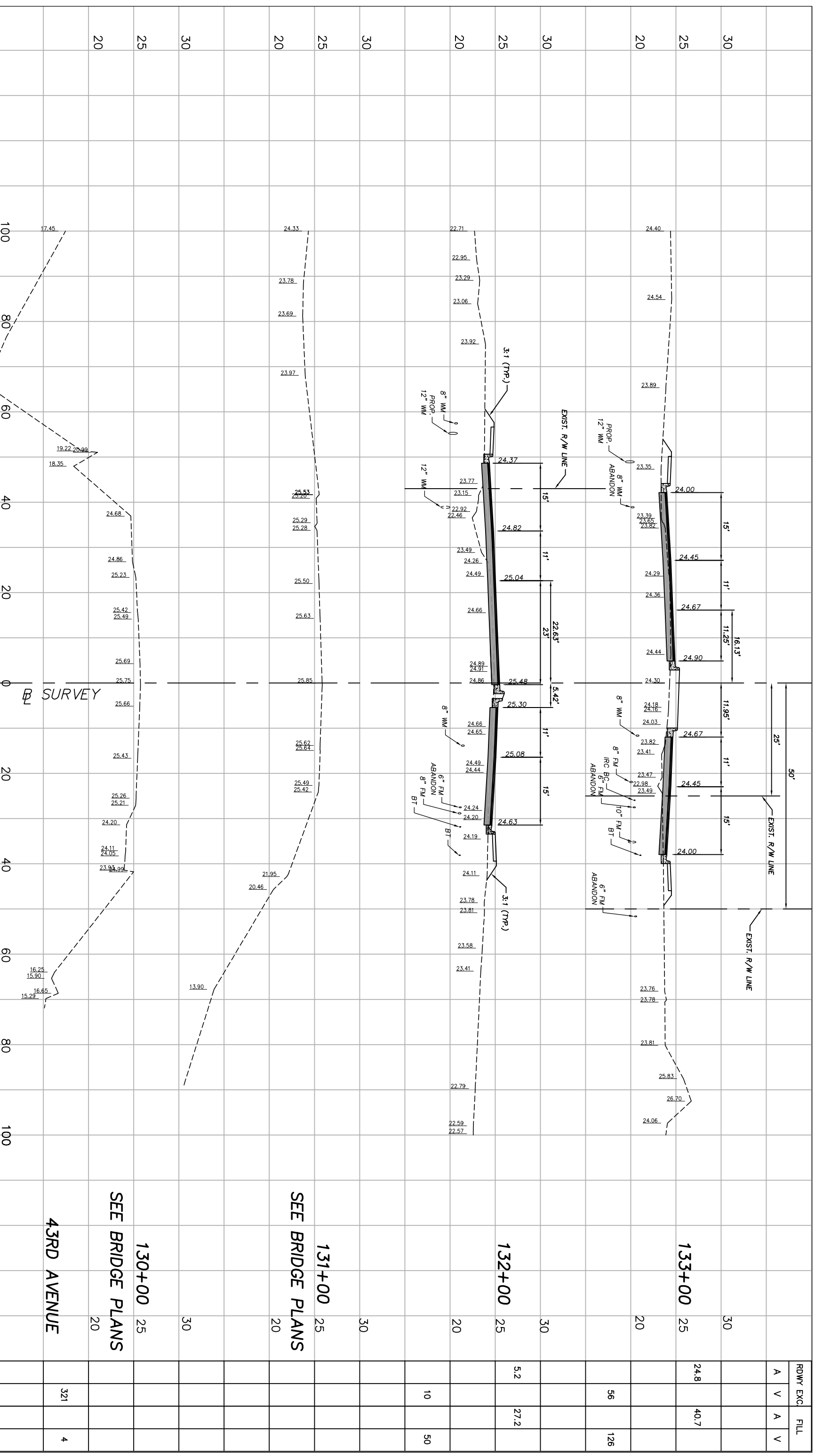
Department of Public Works
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Scale: 1"=10' VERT.
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 Date: 6/2017
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Project:
 CROSS SECTIONS
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 SR 60 & 43RD AVENUE

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Station	Width	RDWY EXC.		FILL	
		A	V	A	V
133+00	30				
133+00	25	24.8		40.7	
132+00	20				
132+00	25		5.2		27.2
131+00	20				
131+00	25		10		50
130+00	20				
130+00	25				
43RD AVENUE	20			321	4

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Scale: 1"=10' VERT.
 1"=20' HORIZ.
 Approved: HWD
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 Field Book No.:

Project:
 CROSS SECTIONS
 FOR
SR 60 & 43RD AVENUE

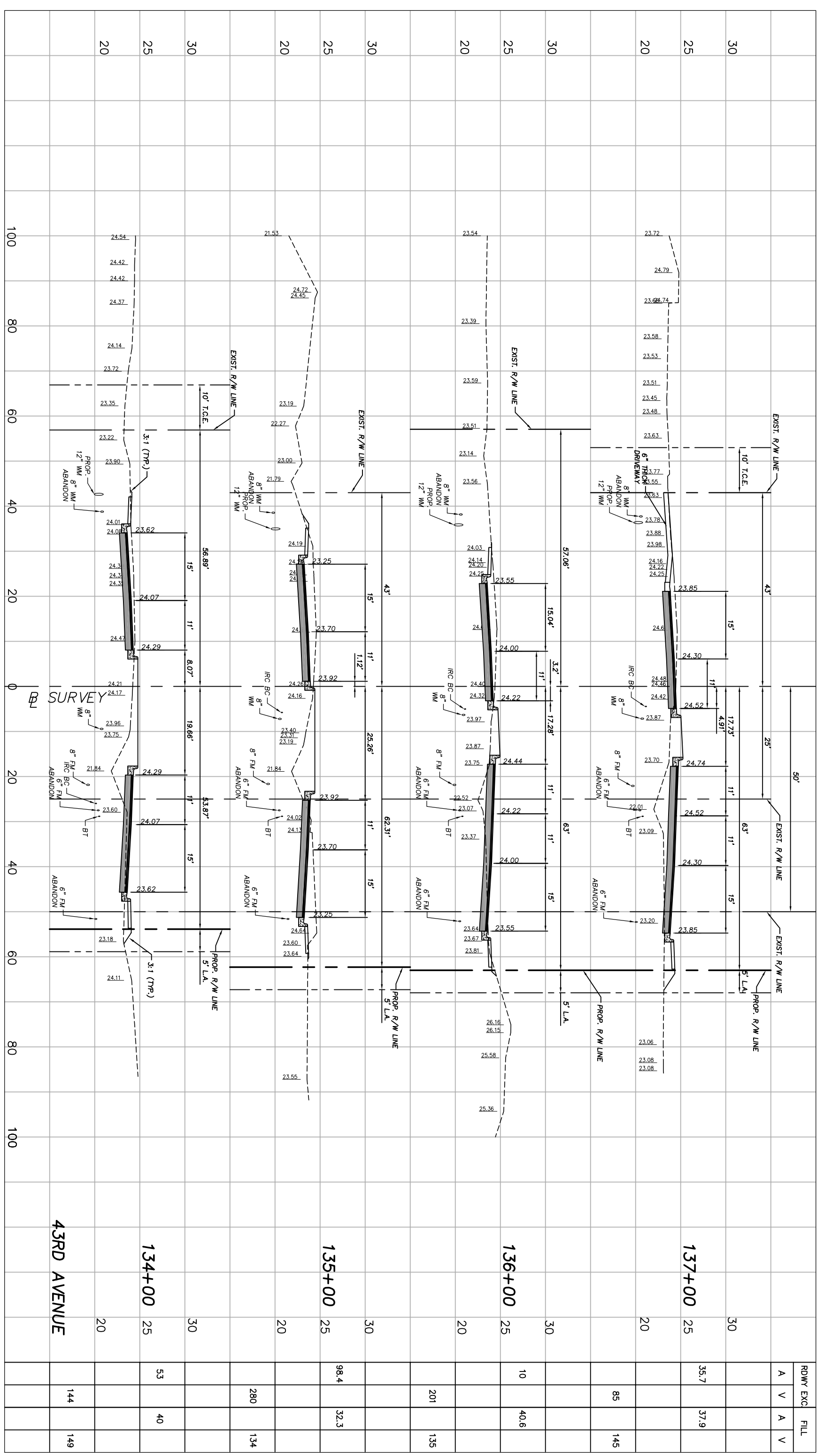
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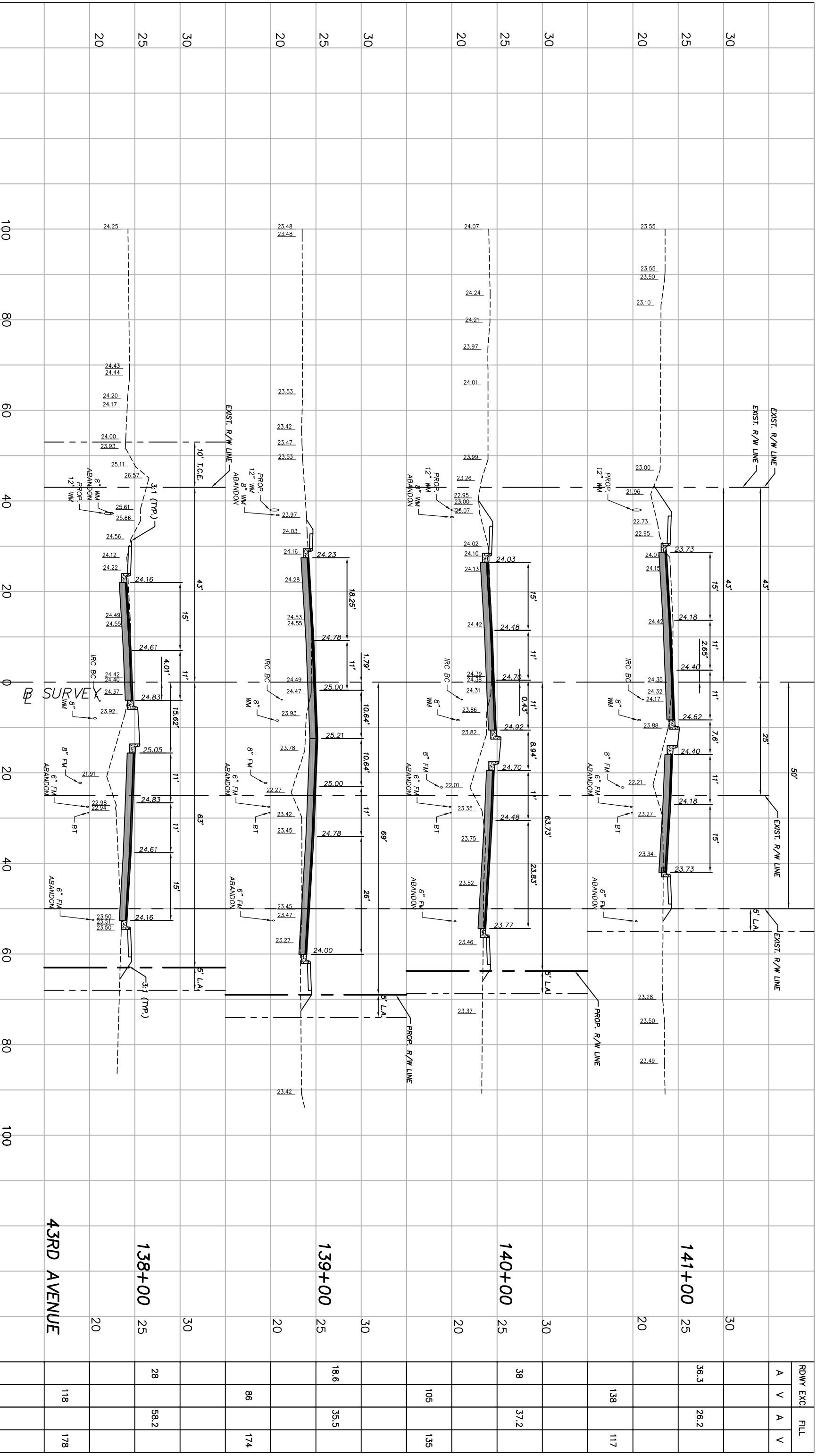
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Project: **CROSS SECTIONS**
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SR 60 & 43RD AVENUE

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Station	RDWY EXC.		FILL	
	A	V	A	V
134+00	53	40	144	149
135+00	98.4	32.3	280	134
136+00	10	40.6	201	135
137+00	35.7	37.9	85	145



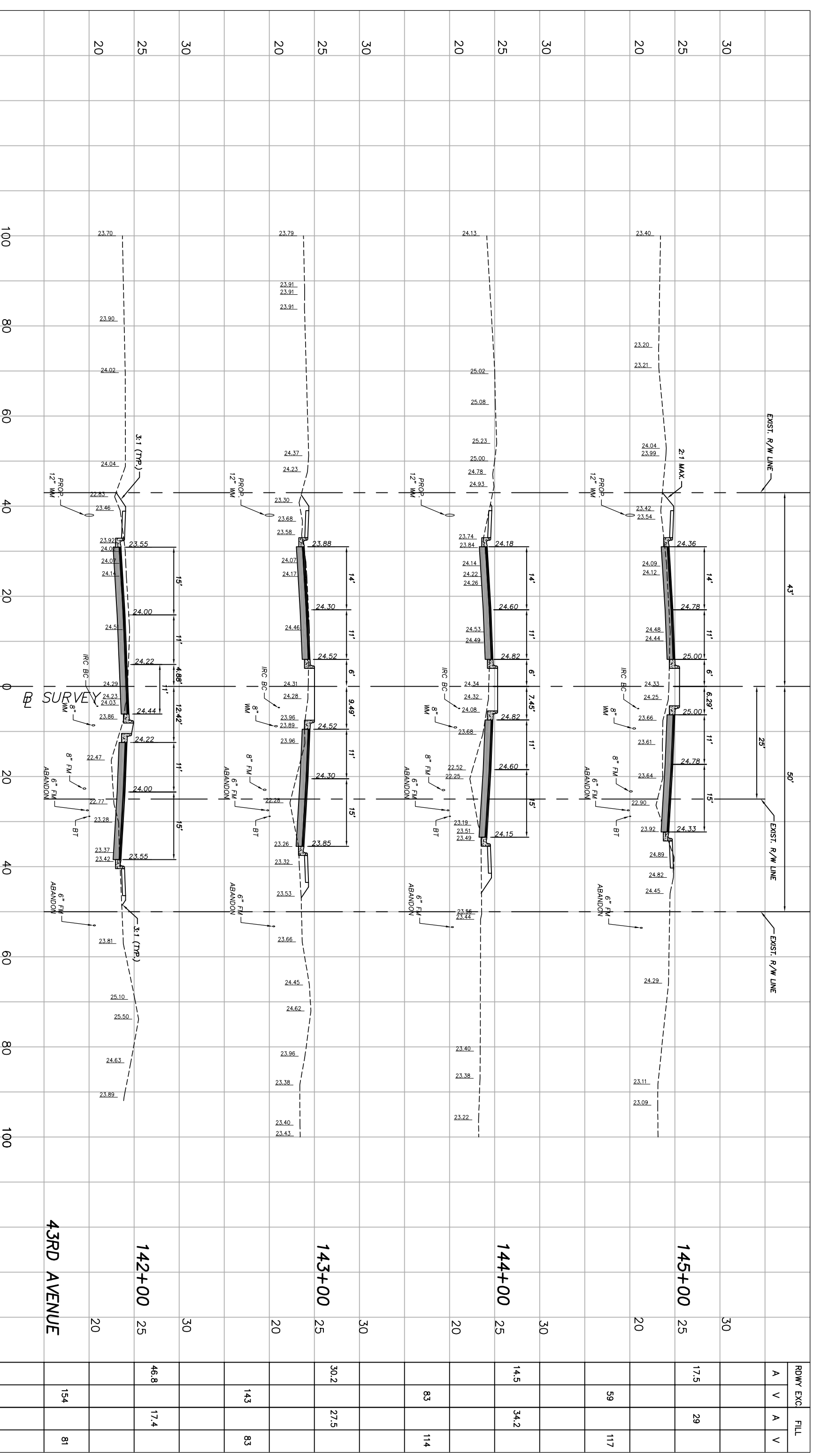
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Scale:	1"=10' VERT.
Approved:	HWD
Drawn:	FM
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Date:	6/2017
Field Book No:	

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FOR
SR 60 & 43RD AVENUE

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Station	Width	RDWY EXC.		FILL	
		A	V	A	V
138+00	25	28	58.2		
139+00	25	18.6	35.5		
140+00	25	38	37.2		
141+00	25	36.3	26.2		



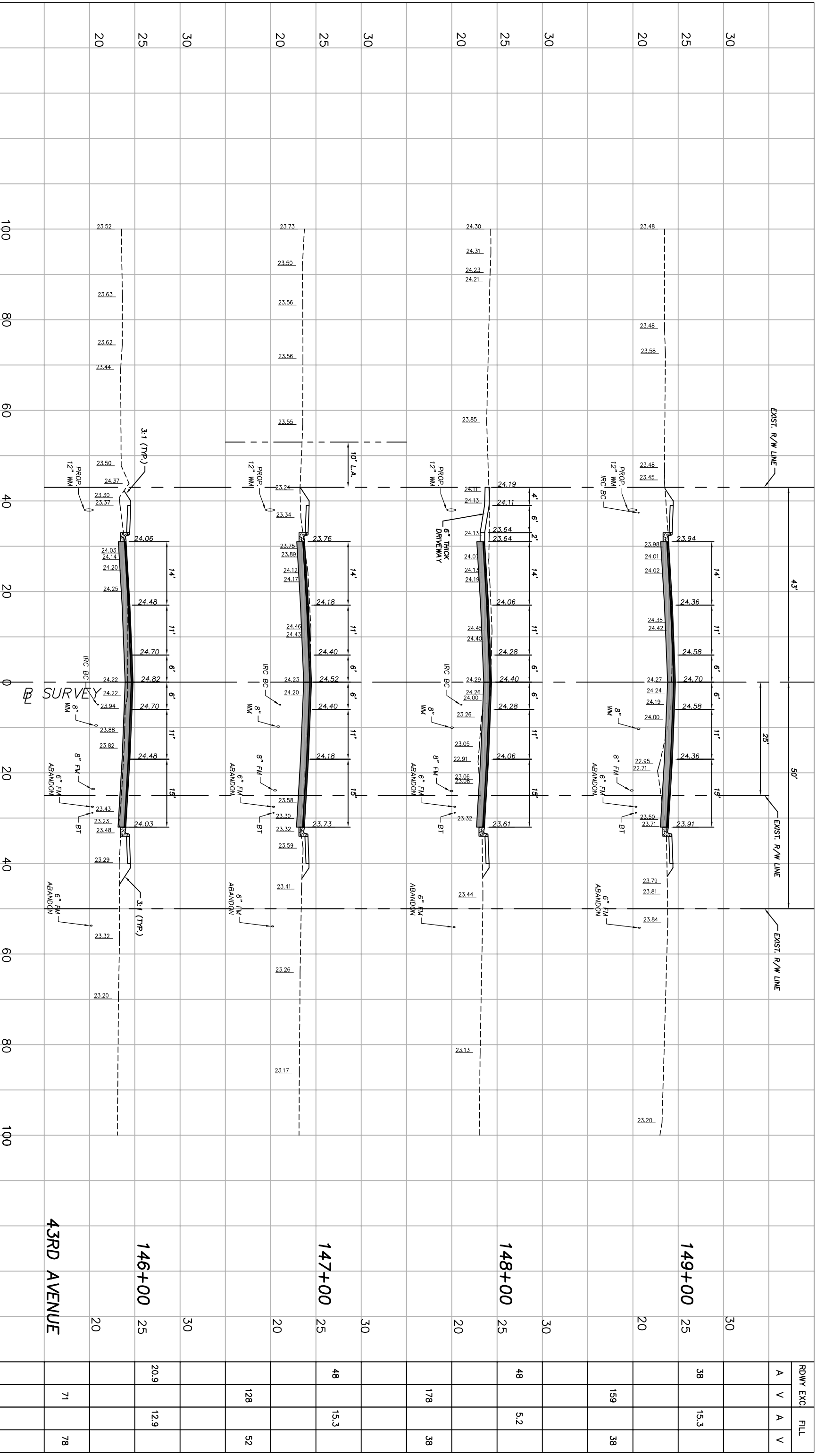
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Scale:	1"=10' VERT.
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Station	RDWY EXC	FILL
142+00	46.8	17.4
143+00	30.2	27.5
144+00	14.5	34.2
145+00	17.5	29



Station	Width	RDWY EXC.		FILL	
		A	V	A	V
146+00	25		20.9		12.9
147+00	25		48		15.3
148+00	25		48		5.2
149+00	25		38		15.3
	20			159	38
	30				
	25				
	20				
	30				
	25				
	20				


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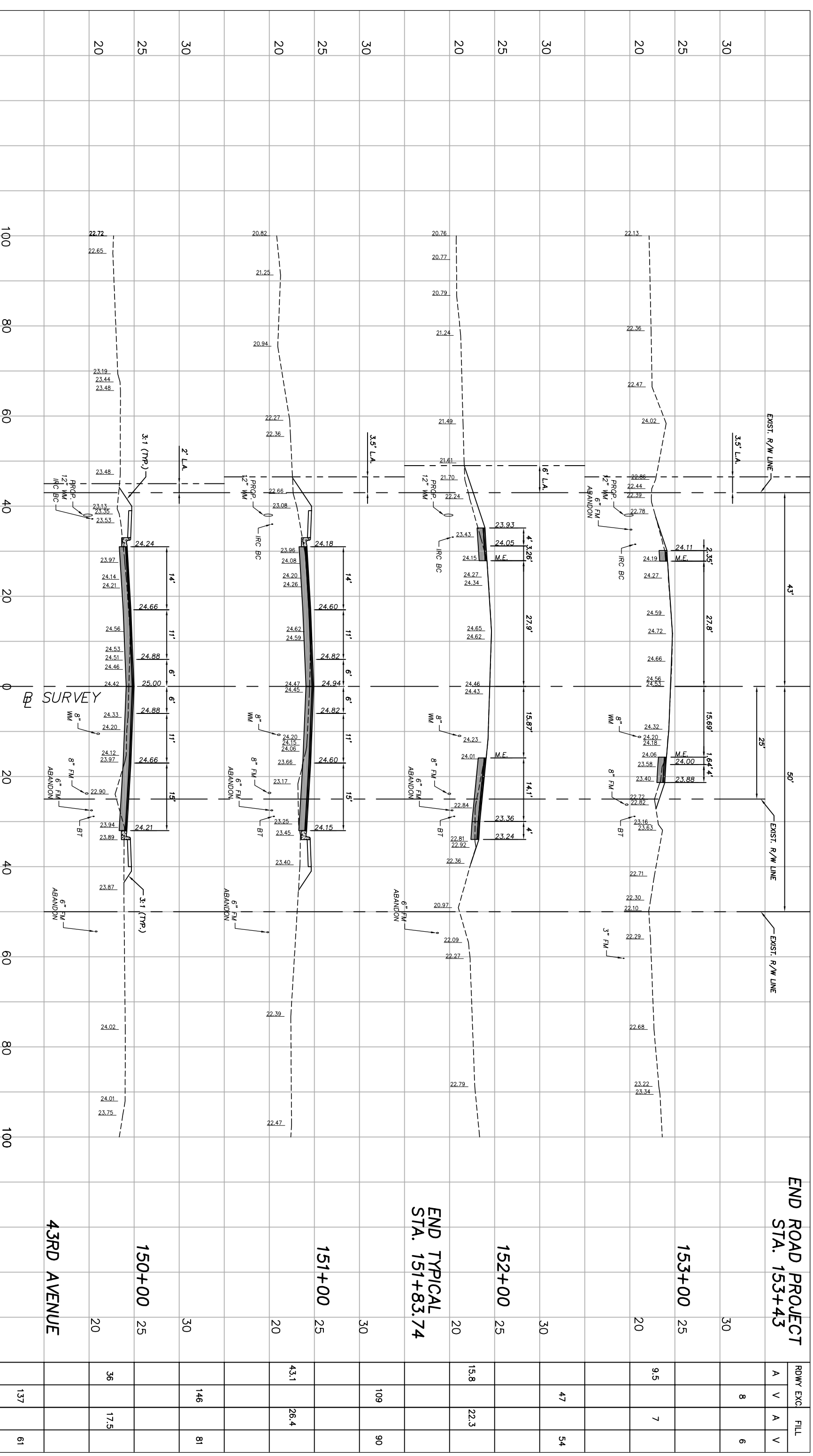
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Station	RDWY EXC.		FILL	
	A	V	A	V
153+43			8	6
153+00	9.5		7	
152+00			47	54
151+00			109	90
150+00			146	81
43RD AVENUE			137	61


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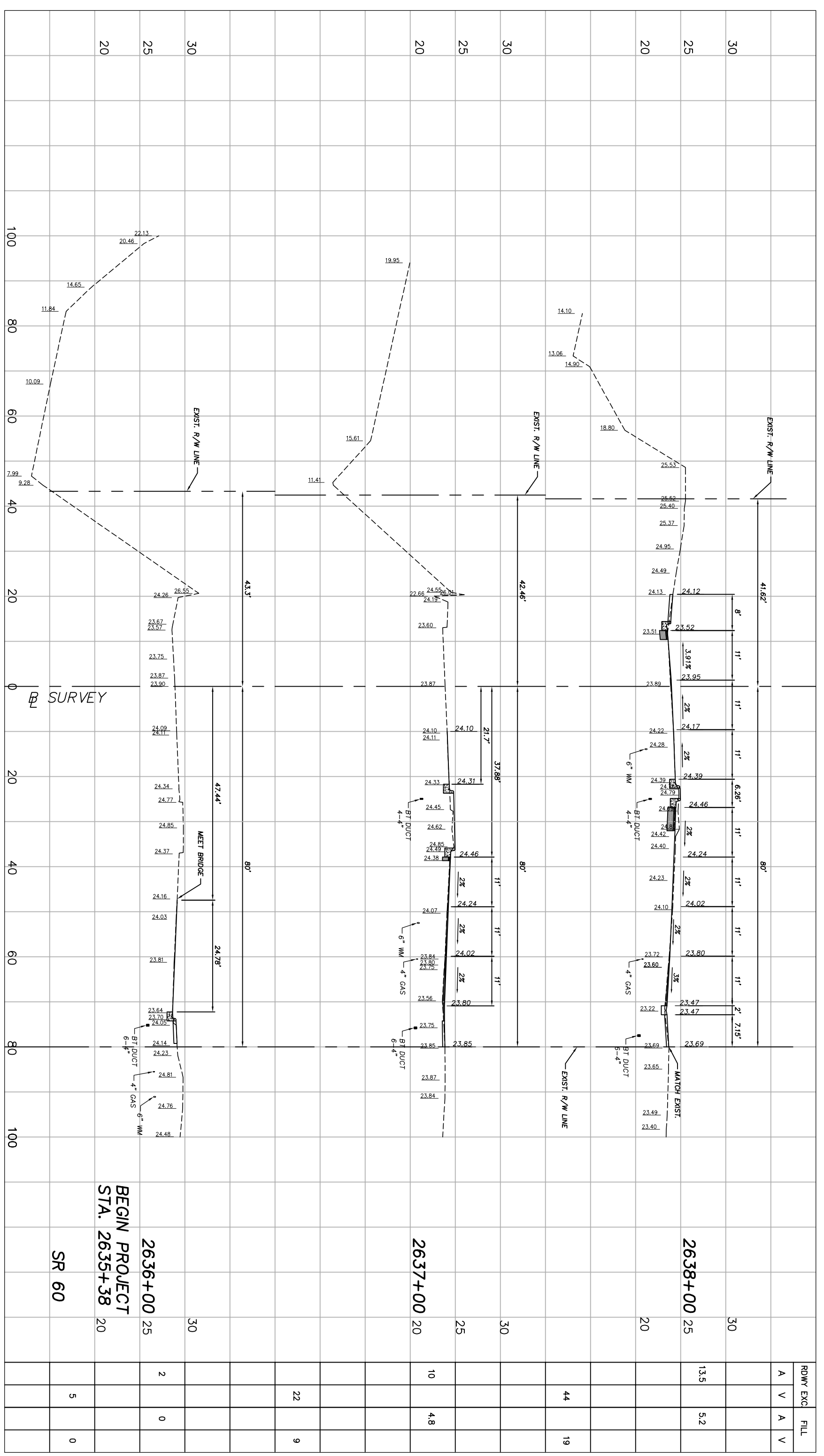
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Station	RDWY EXC.	FILL
2635+38	22	9
2636+00	2	0
2637+00	10	4.8
2638+00	13.5	5.2
2638+00	44	19
SR 60	5	0



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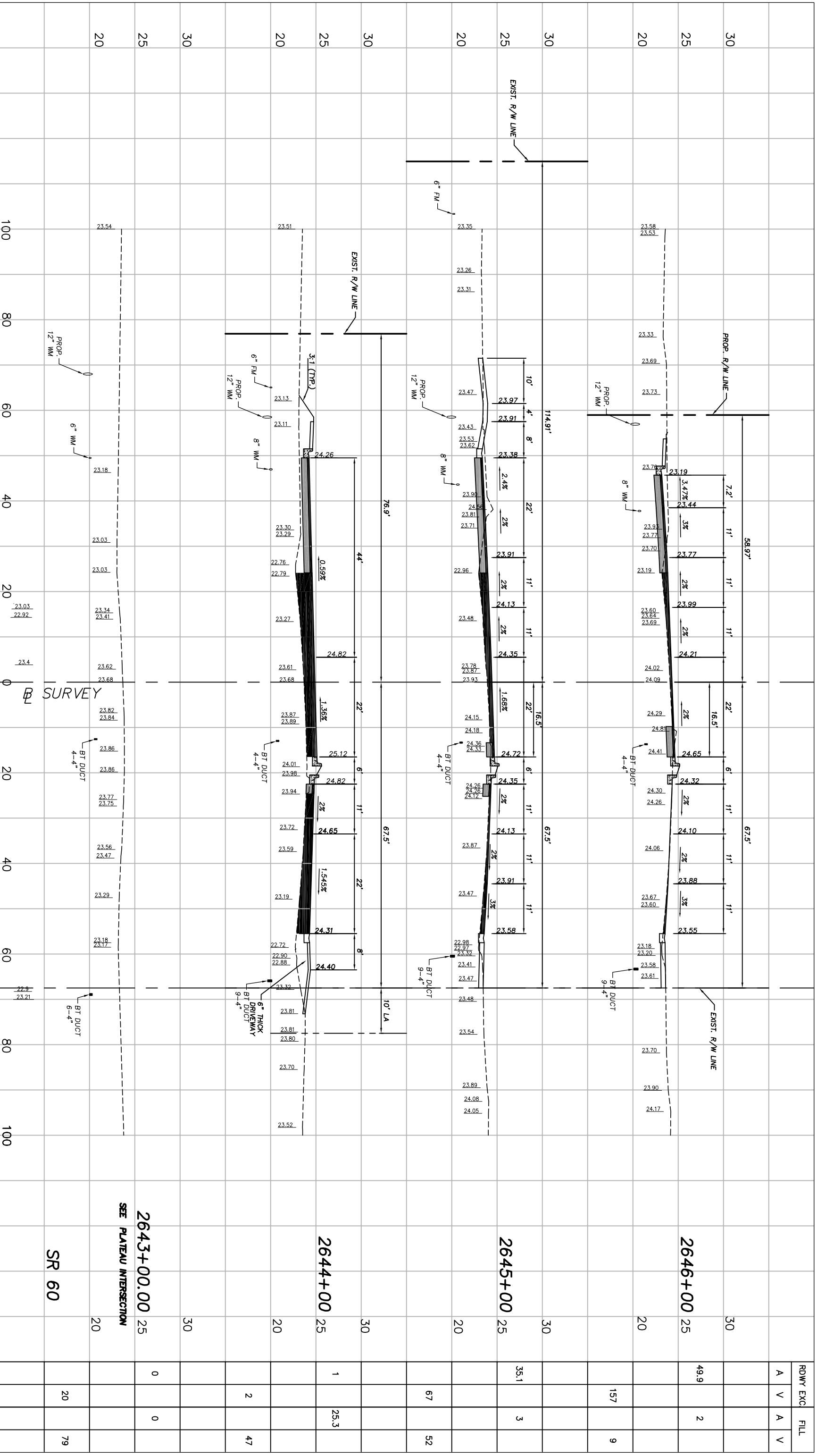
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RDWY EXC.	FILL
A	V
V	A
A	V



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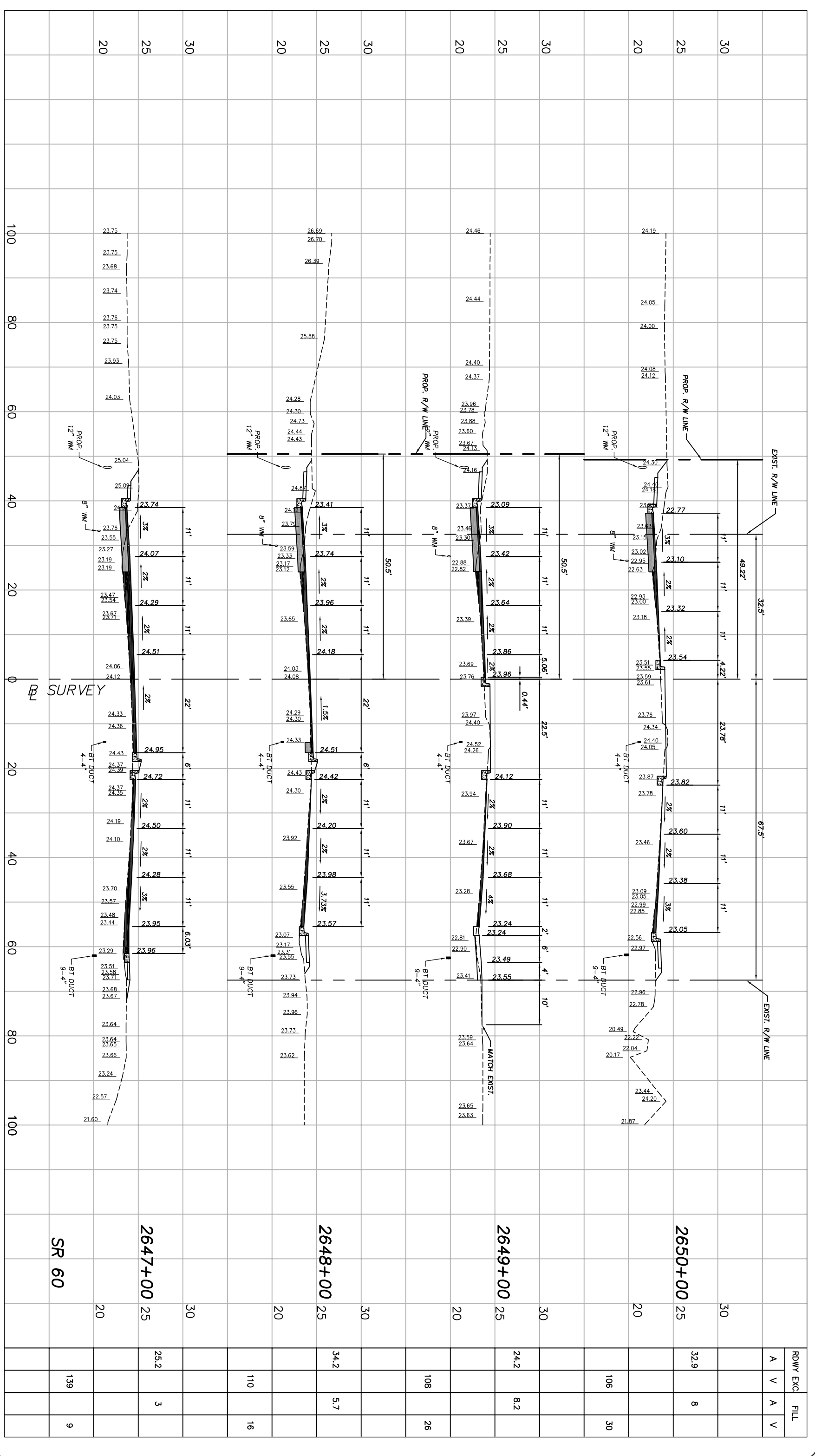
RDWY EXC	FILL
A	V
V	A
A	V
V	A

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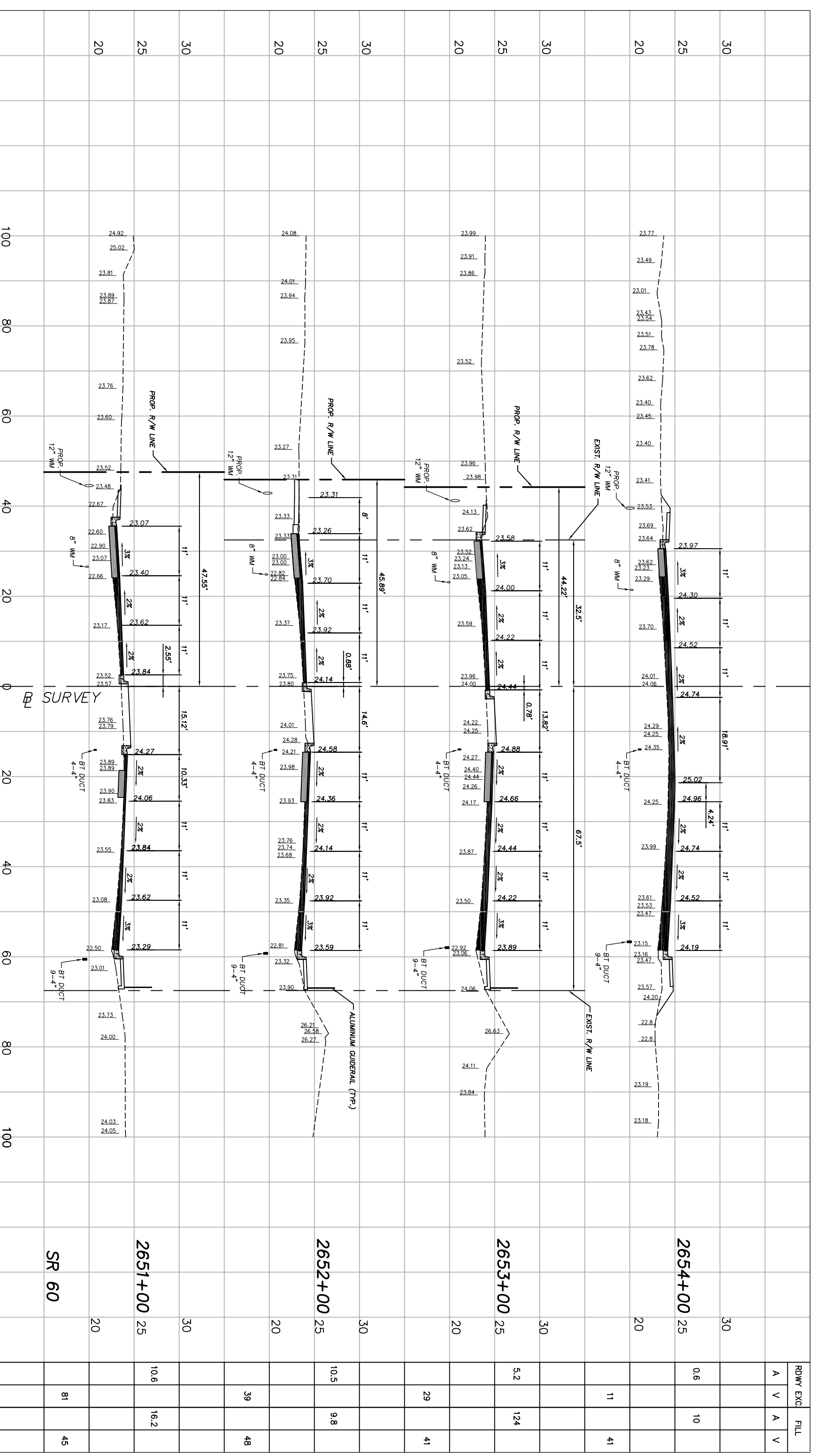
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Station	Width	Excavation (RDWY EXC)	Fill (FILL)
20	20	A	V
25	25	A	V
30	30	A	V
35	35	A	V
40	40	A	V
45	45	A	V
50	50	A	V
55	55	A	V
60	60	A	V
65	65	A	V
70	70	A	V
75	75	A	V
80	80	A	V
85	85	A	V
90	90	A	V
95	95	A	V
100	100	A	V



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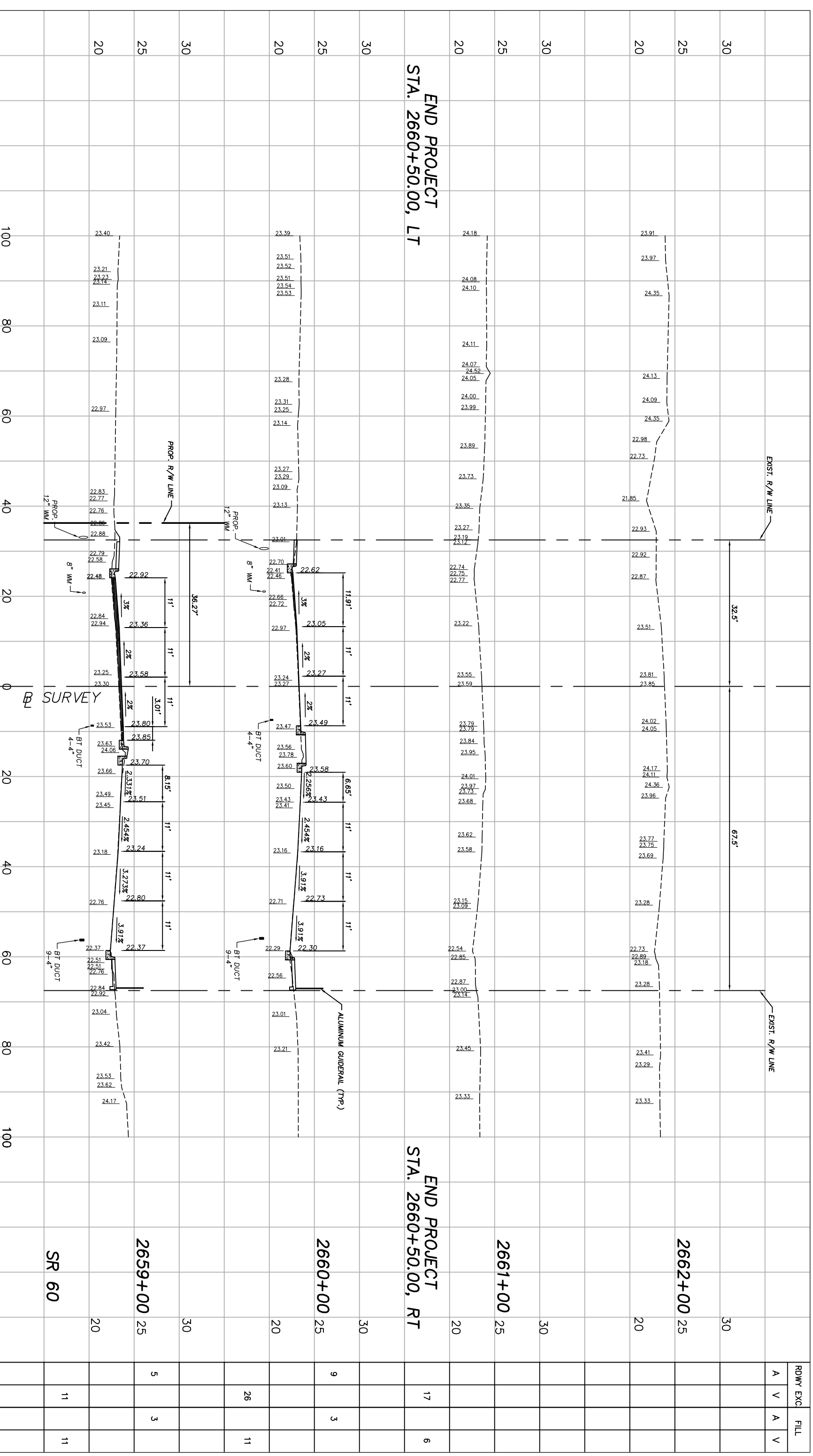
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Station	Width	RDWY EXC.		FILL	
		A	V	A	V
2651+00	25	10.6	16.2	81	45
2652+00	25	10.5	9.8	39	48
2653+00	25	5.2	124	29	41
2654+00	25	0.6	10	11	41




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RDWY	EXC	FILL
A	V	A
V	A	V

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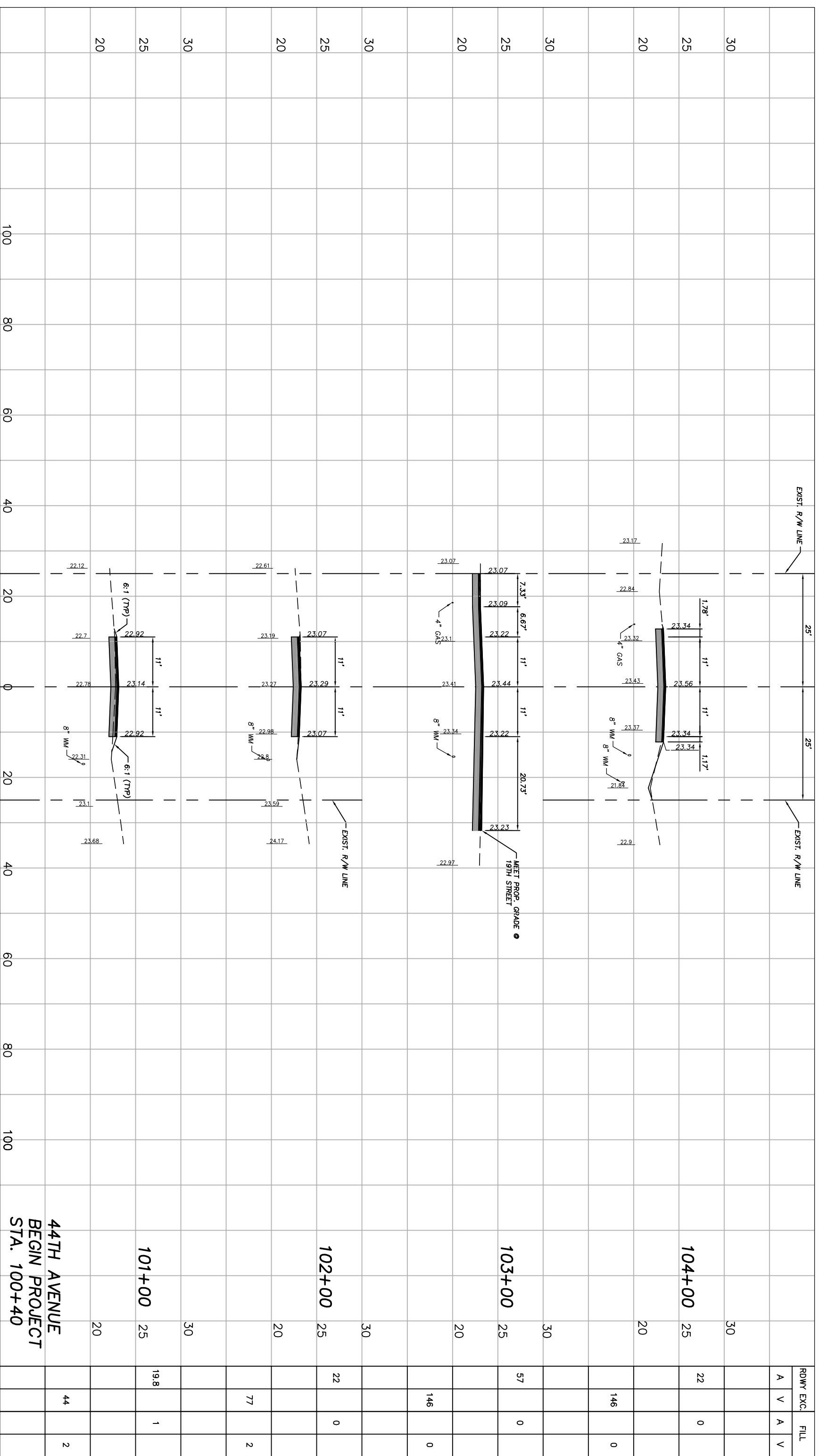


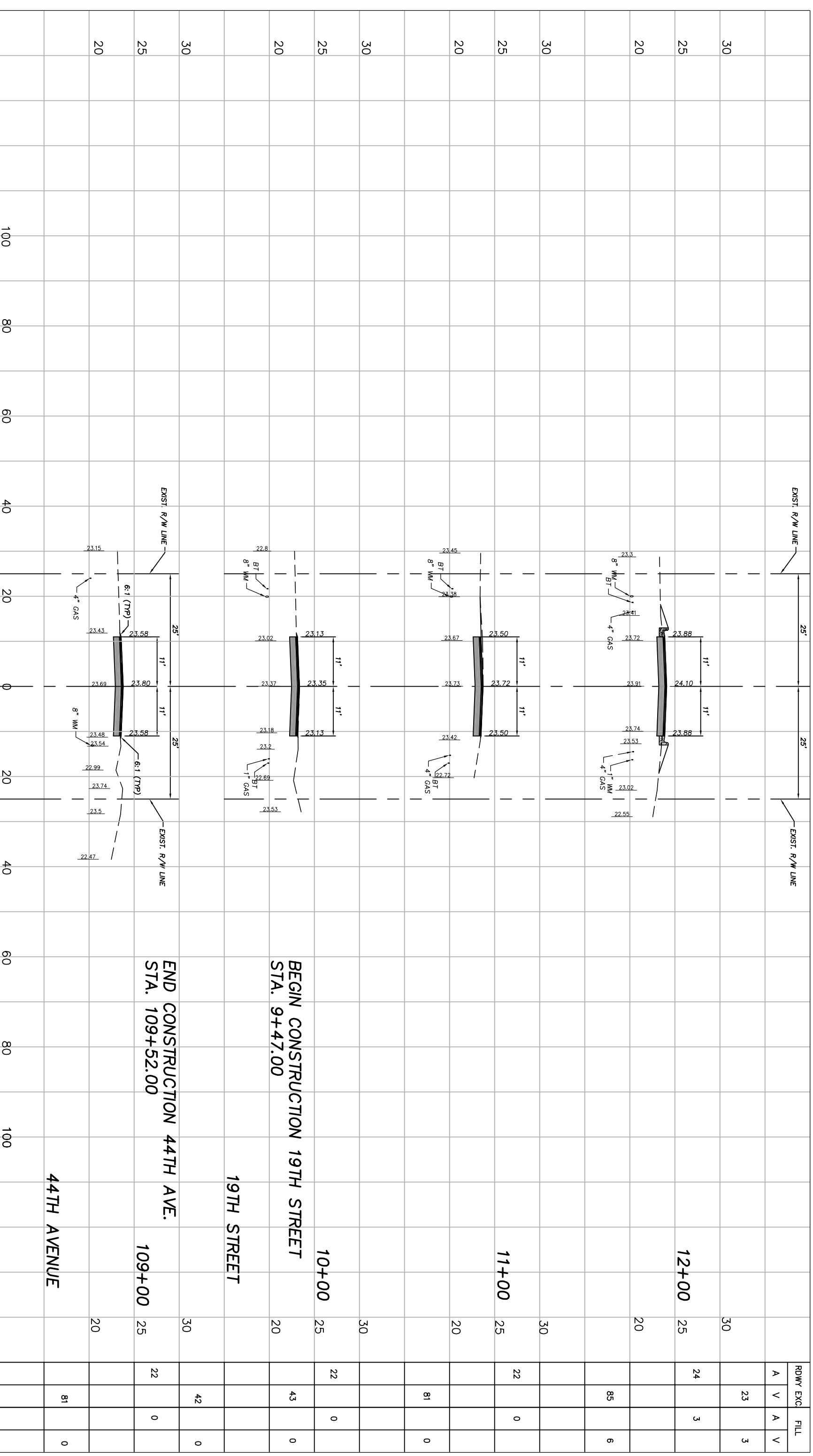
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Station	Excavation	Roadway Excavation		Fill
		A	V	
100	0	0	0	0
20	0	0	0	0
25	0	0	0	0
30	0	0	0	0
40	0	0	0	0
60	0	0	0	0
80	0	0	0	0
100	0	0	0	0
1100	0	0	0	0

N.P.D.E.S. STORMWATER POLLUTION PREVENTION PLAN

THE CONTRACTOR SHALL PREPARE AND PROVIDE INDIAN RIVER COUNTY WITH A SPECIAL PLAN FOR THE PREVENTION, CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION.

THIS PLAN SHALL BE PREPARED IN ACCORDANCE WITH THE GENERAL REQUIREMENTS AND/OR ANY SPECIAL CONDITIONS OF ALL PERMITS WHICH AUTHORIZE THE CONSTRUCTION OF THE PROJECT IN THE EVENT THERE ARE NO PERMITS REQUIRED TO CONSTRUCT THE PROJECT, OR THE APPROVED PERMITS TO DO SPECIFICALLY ADDRESS EROSION AND WATER POLLUTION OR THEY DO NOT CONTROL SPECIAL CONDITIONS RELATED TO EROSION AND WATER POLLUTION, THE PROJECT STORMWATER POLLUTION PREVENTION PLAN FOR CONSTRUCTION ACTIVITIES SHALL BE GOVERNED BY FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION) SUBARTICLES 7-1.1, 7-2.2, 7-8.2, AND ARTICLES 104.1 THROUGH 104.9.

THE CONTRACTOR'S PART OF THE SWPPP WILL INCLUDE HIS EROSION CONTROL AND STORMWATER MANAGEMENT PLAN DURING CONSTRUCTION AND ALL ADDITIONAL MEASURES HE WILL EMPLOY TO DISPOSE, CONTROL, OR OTHERWISE PREVENT THE DISCHARGE OF SOLIDS, HAZARDOUS, AND SANITARY WASTES TO WATERS. PROCEDURES TO CONTROL ON-SITE TRACKING AND SPILLING OF SOIL BY VEHICLES AND CONSTRUCTION EQUIPMENT SHALL ALSO BE INCLUDED. THE CONTRACTOR SHALL ALSO INCLUDE A PROCEDURE FOR CLEANUP AND REPORTING OF NON-STORM WATER DISCHARGES SUCH AS CONTAMINATED GROUNDWATER AND ACCIDENTAL SPILLS OF CONTAMINANTS. THE CONTRACTOR'S PART OF SWPPP INCLUDING REQUIRED SIGNED CERTIFICATION STATEMENTS SHALL BE FURNISHED TO AND APPROVED BY INDIAN RIVER COUNTY PRIOR TO INITIATION OF ANY SOIL DISTURBING ACTIVITIES.

THE SWPPP FOR CONSTRUCTION ACTIVITIES SHALL BE PREPARED IN ACCORDANCE WITH THE FORMAT AND GUIDELINES SET FORTH IN THE EPA DOCUMENT NUMBER 833-R-92-001, DATED OCTOBER 1992, TITLED "STORMWATER MANAGEMENT FOR CONSTRUCTION ACTIVITIES" AND THE CONTRACTOR'S PROPOSED SEQUENCE OF OPERATIONS. THE SWPPP FOR CONSTRUCTION ACTIVITIES SHALL DESCRIBE, BUT NOT BE LIMITED TO THE FOLLOWING ITEMS OR ACTIVITIES:

THE CONTRACTOR SHALL APPLY FOR AND OBTAIN AN NPDES PERMIT FROM THE FDEP. THE CONTRACTOR SHALL PREPARE AND SUBMIT THE NOTICE OF INTENT ALONG WITH THE APPROPRIATE SWPP, SUPPORTING DOCUMENTS, AND PERMIT FEE TO THE FDEP PRIOR TO CONSTRUCTION COMMENCEMENT.

1. FOR EACH PHASE OF CONSTRUCTION OPERATIONS OR ACTIVITIES, THE CONTRACTOR SHALL SUPPLY THE FOLLOWING INFORMATION:
 - A. LOCATIONS OF ALL EROSION CONTROL DEVICES.
 - B. TYPES OF ALL EROSION CONTROL DEVICES.
 - C. ESTIMATED LENGTH OF TIME EROSION CONTROL DEVICES WILL BE IN OPERATION.
 - D. MONITORING SCHEDULES FOR MAINTENANCE OF EROSION CONTROL DEVICES.
 - E. METHOD OF MAINTENANCE OF EROSION CONTROL DEVICES.
 - F. METHODS OF CONTAINMENT OR REMOVAL OF POLLUTANTS OR HAZARDOUS WASTES.

2. THE CONTRACTOR SHALL FURNISH THE ENGINEER THE NAME AND TELEPHONE NUMBER OF THE PERSON WHO WILL BE RESPONSIBLE FOR MONITORING AND MAINTAINING THE EROSION CONTROL DEVICES.

3. THE CONTRACTOR SHALL SUBMIT A COPY OF HIS SWPPP FOR CONSTRUCTION ACTIVITIES TO THE ENGINEER FOR HIS REVIEW AND APPROVAL ON OR BEFORE THE PROJECT PRECONSTRUCTION MEETING. THE CONTRACTOR SHALL PREPARE AND SUBMIT THE SWPPP AND FDEP NOI TO THE FDEP PRIOR TO THE PROJECT PRECONSTRUCTION MEETING.

NO CONSTRUCTION ACTIVITIES SHALL COMMENCE UNTIL THE SWPPP FOR CONSTRUCTION ACTIVITIES HAS BEEN REVIEWED AND RECEIVED APPROVAL FROM THE ENGINEER AND FDEP.

THE CONTRACTOR SHALL SUBMIT TWO (2) COPIES OF THE APPROVED SWPPP FOR CONSTRUCTION ACTIVITIES TO THE ENGINEER AND ONE (1) COPY OF THE APPROVED SWPPP FOR CONSTRUCTION ACTIVITIES TO INDIAN RIVER COUNTY PRIOR TO THE BEGINNING OF CONSTRUCTION.


4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING, MONITORING AND MODIFYING THE SWPPP FOR CONSTRUCTION ACTIVITIES TO MEET CHANGING PROJECT SITE CONDITIONS.

5. THE CONTRACTOR SHALL MAINTAIN A COPY OF THE APPROVED SWPPP FOR CONSTRUCTION ACTIVITIES AT A CENTRAL LOCATION ON THE PROJECT SITE AT ALL TIMES AND BE RESPONSIBLE FOR COMPLIANCE WITH THE APPROVED SWPPP FOR CONSTRUCTION ACTIVITIES.

6. FULL PAYMENT FOR ALL WORK AND MATERIALS NECESSARY FOR PREPARATION, SUBMITTAL AND SUBSEQUENT MODIFICATION OF THE CONTRACTOR'S SWPPP FOR CONSTRUCTION ACTIVITIES AND FOR IMPLEMENTING IT DURING CONSTRUCTION SHALL BE INCLUDED IN THE MOBILIZATION PAY ITEM (L.S.) AND THE N.D.P.E.S. COMPLIANCE PAY ITEM (L.S).


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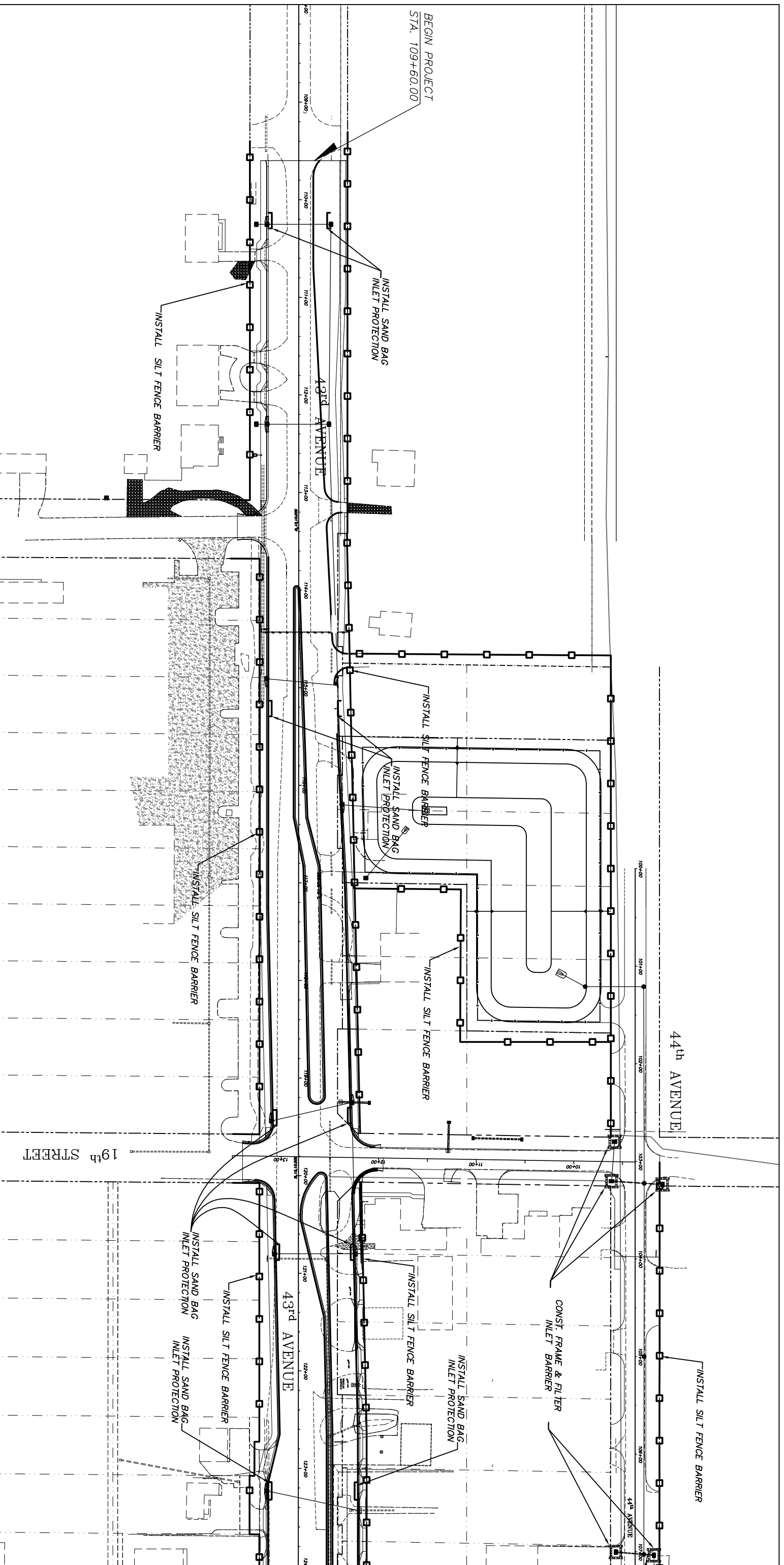

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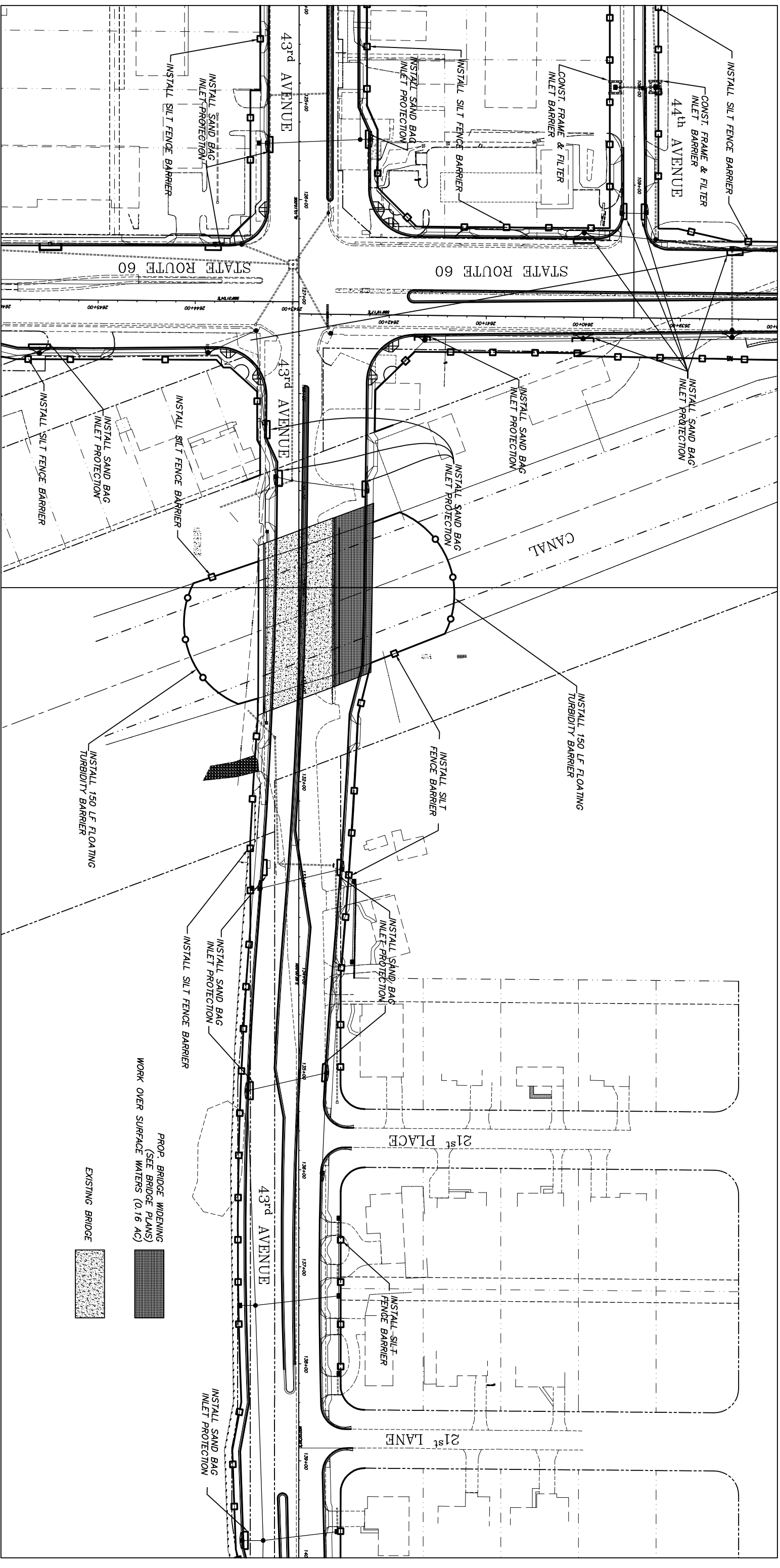
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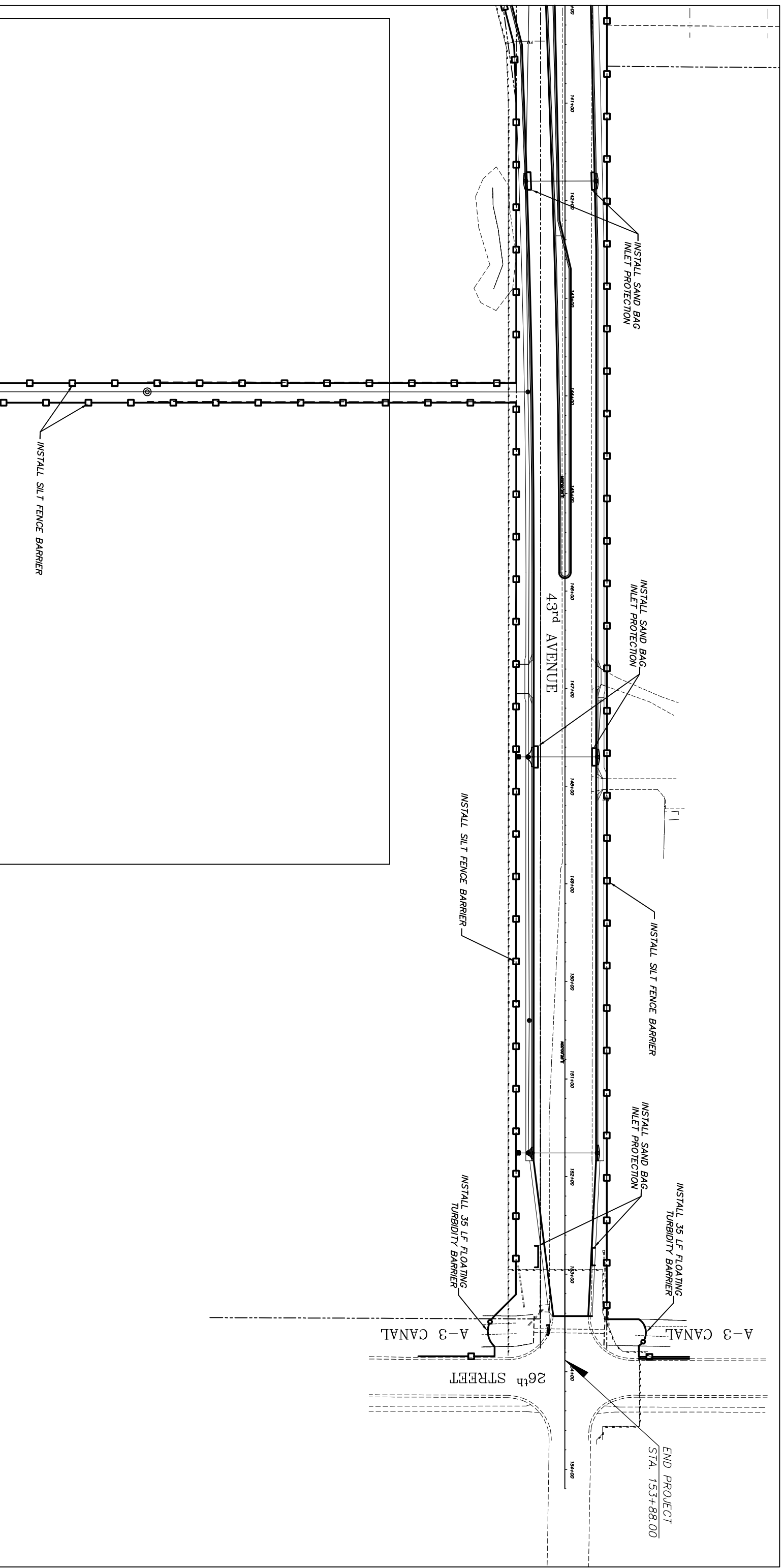
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PROP. BRIDGE WIDENING
 (SEE BRIDGE PLANS)
 WORK OVER SURFACE WATERS (0.16 AC)

EXISTING BRIDGE



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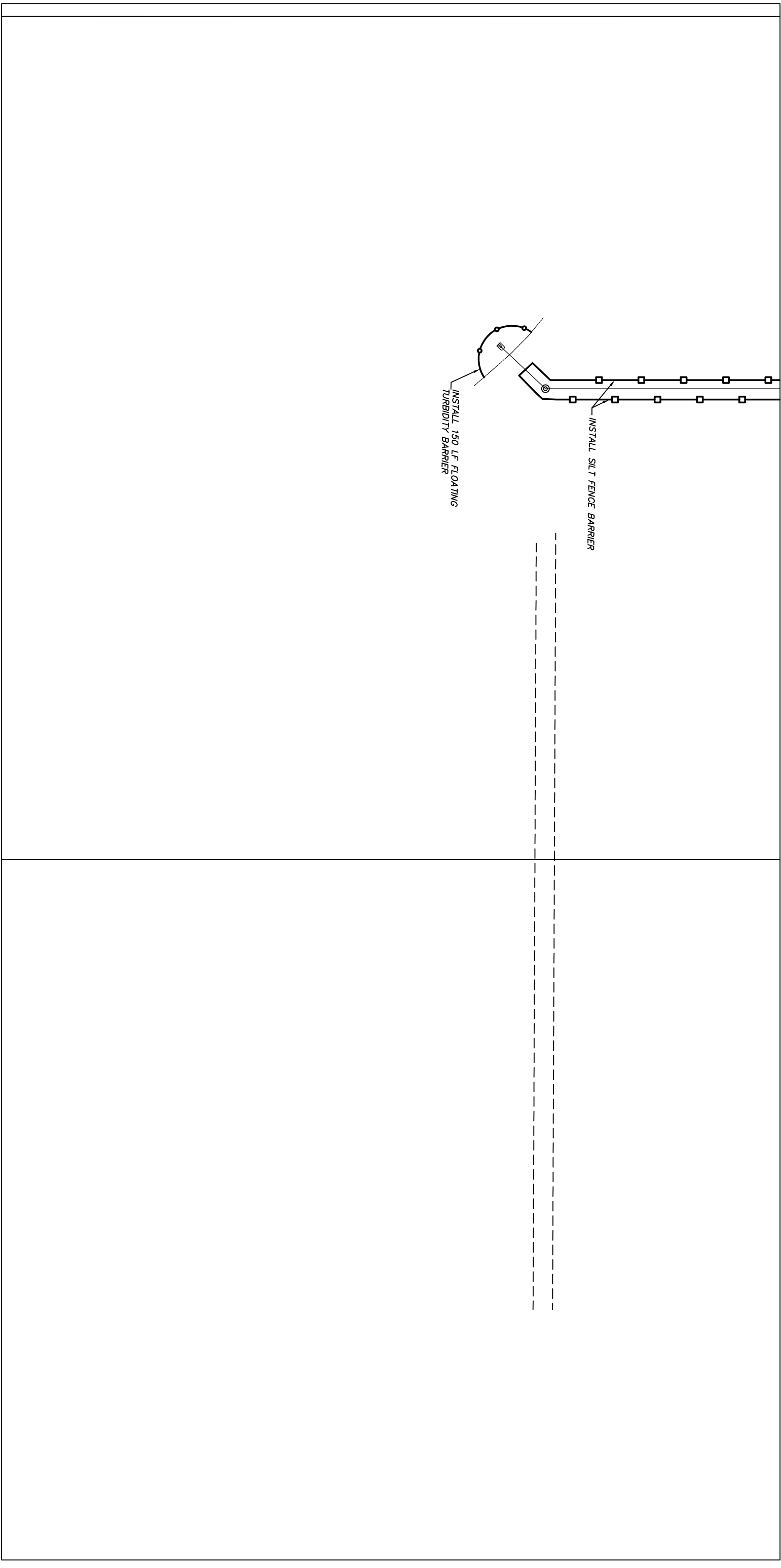
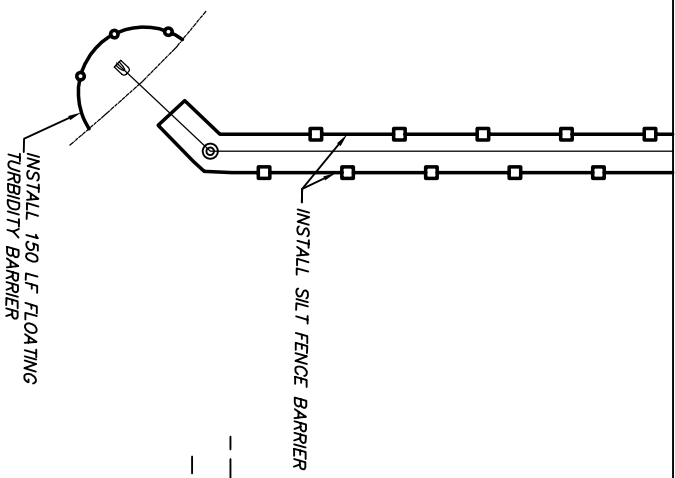

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MATCH SHEET 79



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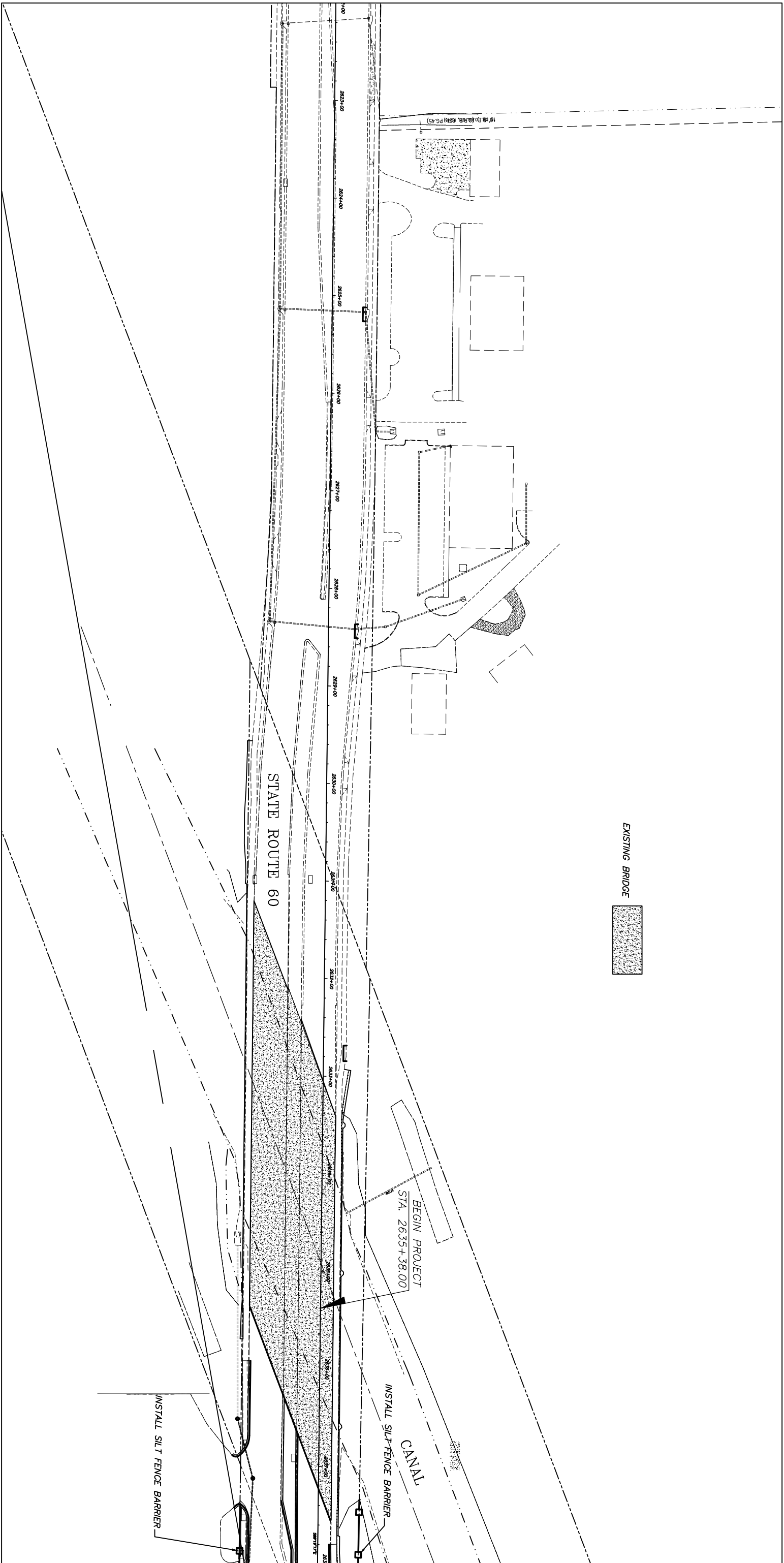


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EXISTING BRIDGE

BEGIN PROJECT
STA. 2635+38.00

INSTALL SILT FENCE BARRIER
CANAL


STATE ROUTE 60

INSTALL SILT FENCE BARRIER


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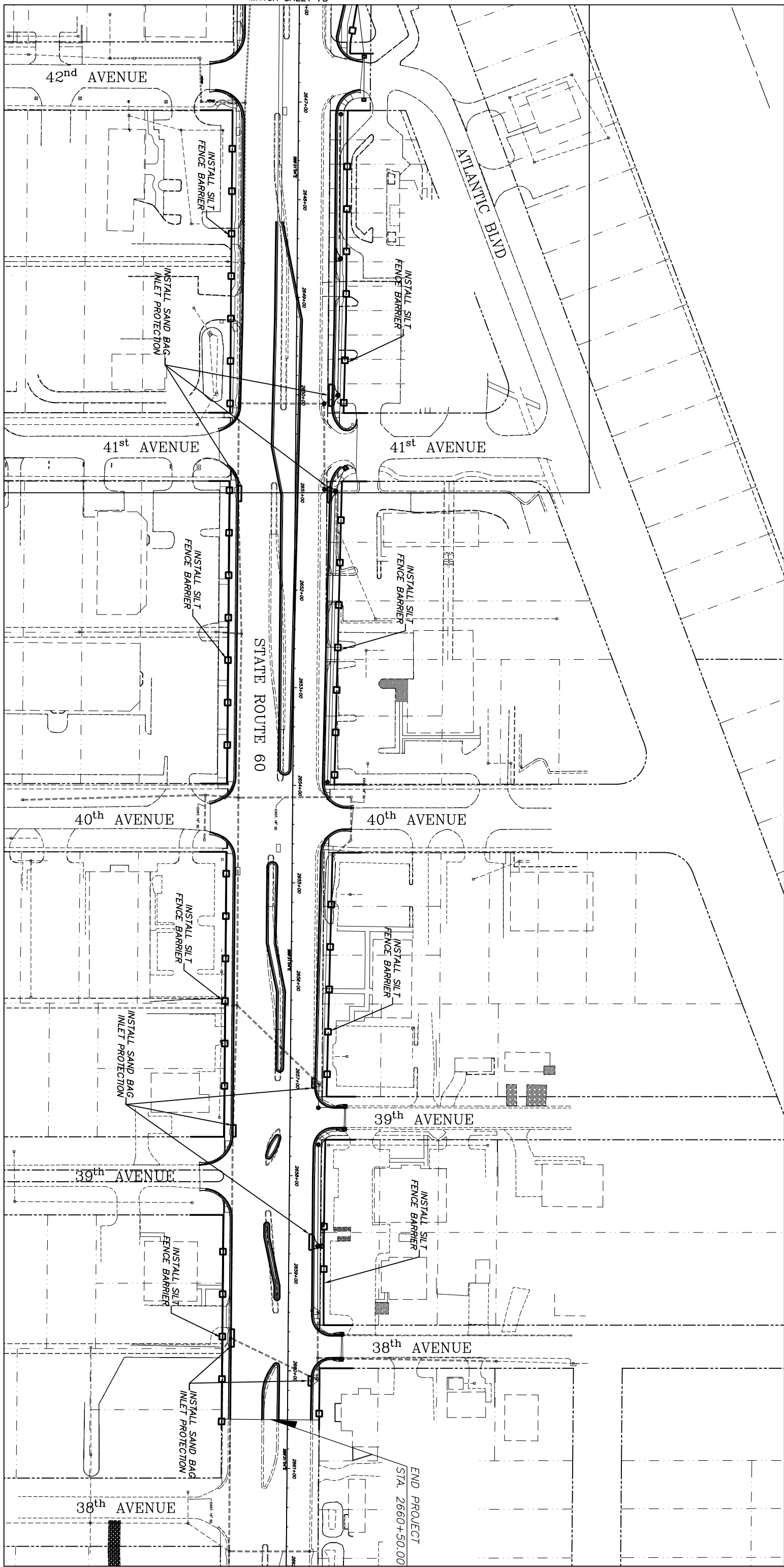

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TRAFFIC CONTROL PLAN GENERAL NOTES:

1. ALL TRAFFIC CONTROL DEVICES AND SCHEMES SHALL CONFORM TO THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), THE FDOT DESIGN STANDARDS (LATEST EDITION), AND FHWA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD 2009 EDITION).
 2. THESE CONSTRUCTION ACTIVITIES MAY GENERALLY BE CONSTRUCTED IN A SEQUENCE WHICH BEST EXPEDITES THE CONSTRUCTION AT THE DISCRETION OF THE ENGINEER. TRAFFIC DISRUPTIONS WHICH ARE NOT SHOWN ON THE TRAFFIC CONTROL PLAN, BUT WHICH ARE NECESSARY TO CONSTRUCT THE PROJECT SHALL BE SUBMITTED IN WRITING TO THE ENGINEER AND APPROVAL SHALL BE OBTAINED 3 FULL BUSINESS DAYS PRIOR TO COMMENCEMENT OF WORK. SUBMITTAL MATERIAL SHALL INCLUDE SKETCHES, CALCULATIONS, AND OTHER DATA REQUIRED BY THE ENGINEER.
 3. FOURTEEN DAYS PRIOR TO THE BEGINNING OF THE CONSTRUCTION THE CONTRACTOR WILL FURNISH AND INSTALL SIGNS TO NOTIFY RESIDENTS OF THE IMPENDING WORK. THESE SIGNS WILL STAY IN PLACE UP TO THE BEGINNING OF THE CONSTRUCTION.
 4. THE CONTRACTOR SHALL NOTIFY THE DISTRICT PUBLIC INFORMATION OFFICE AND THE PROJECT ENGINEER OF PROPOSED LANE CLOSURES OR TEMPORARY DETOURS 14 WORKING DAYS IN ADVANCE. THE CONTRACTOR SHALL NOTIFY THE LOCAL POLICE DEPARTMENTS, FIRE DEPARTMENTS, AND EMS WITHIN 48 HOURS OF ANTICIPATED DISRUPTION OF NORMAL FLOW OF TRAFFIC.
 5. ALLOWABLE ON-SITE CONSTRUCTION WORK HOURS ARE FROM 8:00 AM TO 6:00 PM MONDAY THROUGH FRIDAY.
 6. NO DETOUR OR LANE CLOSURES WILL BE ALLOWED WITHOUT ASSURANCE THAT THE PRIME AND SUBCONTRACTORS HAVE PLANNED THE OPERATIONS TO ACHIEVE RE-OPENING ACCORDING TO THE CONTRACT.
 7. ACCESS TO ADJACENT PROPERTIES SHALL BE MAINTAINED BY THE CONTRACTOR DURING ALL PHASES OF CONSTRUCTION.
 8. MAIL DELIVERY, GARBAGE PICKUP AND OTHER MUNICIPAL SERVICES SHALL BE MAINTAINED ON ALL ADJACENT PROPERTIES DURING ALL PHASES OF CONSTRUCTION.
 9. WHENEVER CONSTRUCTION EQUIPMENT IS BEING DRIVEN OR TRANSPORTED ON THE OPEN TRAVEL LANES, THE CONTRACTOR SHALL UTILIZE FDOT STANDARD INDEX NO. 619.
 10. THE CONTRACTOR SHALL PROVIDE ANY AND ALL MATERIALS AND EQUIPMENT NEEDED TO MEET DROP-OFF REQUIREMENTS OF FDOT STANDARD INDEX NO. 600. PAYMENT FOR ALL MATERIALS AND EQUIPMENT SHALL BE INCLUDED UNDER PAY THE ITEM MAINTENANCE OF TRAFFIC.
 11. THE CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES PRIOR TO BEGINNING CONSTRUCTION AND SHALL MAINTAIN DRAINAGE DURING CONSTRUCTION OPERATIONS TO ENSURE SAFE VEHICULAR OPERATIONS AS WELL AS TO PROHIBIT ANY UNDE IMPACT ON OFF-SITE DRAINAGE OR ENVIRONMENTAL CONCERNS. PROVISIONS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO USE AND SHALL INCLUDE PROVISIONS AS REQUIRED IN THE NPDES AND OTHER PERMITS.
 12. EXCAVATIONS DEEPER THAN 18 INCHES AND ANY OTHER WORK WHICH MAY ADVERSELY AFFECT THE PERFORMANCE OF ANY UTILITY SHALL NOT BE DONE ON SATURDAYS. ALL SATURDAY WORK MUST BE APPROVED BY THE ENGINEER.
 13. DRIVEWAY SLOPES MAY BE MODIFIED AS DIRECTED BY THE ENGINEER TO MATCH EXISTING CONDITIONS DURING CONSTRUCTION.
- SIGNING AND PAVEMENT MARKINGS:**
14. THE CONTRACTOR SHALL REMOVE OR COVER ANY EXISTING OR PROPOSED SIGNS AND/OR PAVEMENT MARKINGS WHICH CONFLICT WITH THE TRAFFIC CONTROL THROUGH THE WORK ZONE. WHEN THE CONFLICT NO LONGER EXISTS THE CONTRACTOR SHALL RESTORE THE SIGNS AND/OR PAVEMENT MARKINGS TO THEIR ORIGINAL POSITION. REMOVAL OF PAVEMENT MARKINGS IN AREAS WHICH WILL NOT BE MILLED, BUT WHERE RESTRIPING OCCURS, SHALL BE BY SAND OR WATER BLASTING OR ANY OTHER METHOD THAT WILL NOT MATERIALLY DAMAGE THE SURFACE TEXTURE OF THE PAVEMENT AND WHICH WILL ELIMINATE THE PREVIOUS MARKING PATTERN REGARDLESS OF WEATHER AND LIGHT CONDITIONS. USE OF BLACK PAINT TO COVER EXISTING PAVEMENT MARKINGS SHALL BE PROHIBITED.
 15. ALL EXISTING PAVEMENT MARKINGS AND RPM'S THAT HAVE BEEN ALTERED OR REMOVED DUE TO CONSTRUCTION OPERATIONS, AND WHICH WILL NOT BE REPLACED BY NEW MARKINGS AND RPM'S, AS SHOWN ON THE PAVEMENT MARKING PLANS, SHALL BE REPLACED UPON COMPLETION OF THE PHASES OF CONSTRUCTION WHICH REQUIRE THEIR ALTERATION OR REMOVAL. DURING AND AFTER COMPLETION OF EACH CONSTRUCTION PHASE, THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY PAVEMENT MARKINGS (I.E. LANE LINES, ARROWS, CROSOWALKS, STOP BARS, RPM'S, ETC.) UNTIL THE FINAL FRICTION COURSE IS PLACED AND PERMANENT MARKINGS INSTALLED.
 16. THE CONTRACTOR SHALL INSTALL CONSTRUCTION SIGNING PRIOR TO COMMENCEMENT OF CONSTRUCTION AND MAINTAIN SIGNING DURING ALL PHASES OF CONSTRUCTION.
 17. INSTALL TEMPORARY PAINT (STRIPING/MARKINGS) AND RPM'S SUBSEQUENT TO INSTALLATION OF FINAL SURFACE COURSE PAVING AND PERMANENT THERMOPLASTIC (STRIPING/MARKINGS) AND RPM'S SUBSEQUENT TO A 14 DAY CURING PERIOD.
 18. THE CONTRACTOR SHALL MAINTAIN THE EXISTING LEVEL OF ILLUMINATION ON THE TRAVELED ROADWAY THROUGHOUT CONSTRUCTION.

PEDESTRIAN, BICYCLES AND WHEELCHAIRS:

20. PEDESTRIAN WALKWAYS, BUS STOPS AND PEDESTRIAN ACCESS SHALL BE MAINTAINED FREE OF ANY OBSTRUCTIONS SUCH AS HOLES, DEBRIS, MUD, CONSTRUCTION EQUIPMENT, STORED MATERIALS, ETC. ANY HAZARDS NEAR OR ADJACENT TO WALKWAYS, BUS STOPS AND ACCESS TO TRANSIT VEHICLES SHALL BE CLEARLY DELINEATED.
21. WHEN SAFE PEDESTRIAN ACCESS/WALKWAYS CANNOT BE PROVIDED, PEDESTRIANS SHALL BE DIRECTED TO ALTERNATIVE ROUTES BY APPROPRIATE TRAFFIC CONTROL DEVICES. PEDESTRIAN, BICYCLE AND WHEELCHAIR TRAFFIC SHALL BE GUIDED AND MAINTAINED USING APPROVED WARNING LIGHTS, SIGNING AND CHANNELIZATION DEVICES. SUCH DEVICES SHALL BE MAINTAINED IN ACCORDANCE WITH THE MUTCD SECTIONS ON WORK ZONE TRAFFIC CONTROL FOR PEDESTRIANS AND CHAPTER 6D, PEDESTRIAN AND WORKER SAFETY.
22. IT SHALL BE THE RESPONSIBILITY OF CONTRACTOR TO INSTALL ANY NECESSARY PAVEMENT, ROAD ROCK, PAVEMENT MARKINGS AND SIGNAGE TO ACCOMMODATE AN EXISTING ALTERNATIVE WALK ROUTE.

PHASING NOTES:

1. **PHASE 1** –UTILIZING INDICES 600, 613, 615, 616, 618, 619, 625, 660 – 43RD AVE. STA. 109+60 TO STA. 153+88, SR 60 STA. 2635+38 TO STA. 2660+50. PHASE 1 CONSTRUCTION CONSISTS OF PLACING OF TURBIDITY BARRIERS, SEDIMENT BARRIERS, AND INLET PROTECTION AND ALL CLEARING AND GRUBBING.
2. INSTALL ADVANCE CONSTRUCTION AHEAD WARNING SIGNS, BARRICADES, AND CONSTRUCTION SIGNS, AND REMOVE CONFLICTING MARKINGS AND SIGNS.
3. TEMPORARY MARKINGS SHALL BE INSTALLED FOR TRAFFIC CONTROL.

1. **PHASE 2** –UTILIZING INDICES 600, 613, 615, 616, 618, 619, 625, 660 – 43RD AVE. STA. 109+60 TO STA. 153+88, SR 60 STA. 2635+38 TO STA. 2660+50. PHASE 2 CONSISTS OF ALL ROADWAY CONSTRUCTION, STORM WATER DRAINAGE CONSTRUCTION, AND CURB & GUTTER & SIDEWALK INSTALLATION ON THE NORTH AND SOUTH SIDE OF SR 60 AND THE EAST AND WEST SIDE OF 43RD AVENUE.
2. ACCESS TO PROPERTIES ON SHALL BE MAINTAINED AT ALL TIMES.
3. INSTALL ADVANCE CONSTRUCTION AHEAD WARNING SIGNS, BARRICADES, AND CONSTRUCTION SIGNS, AND REMOVE CONFLICTING MARKINGS AND SIGNS.
4. DROP-OFF CONDITIONS SHALL MEET THE REQUIREMENTS AS OUTLINED IN FDOT STANDARD INDEX NO. 600 AND ANY DROP-OFF CONDITION THAT IS CREATED SHALL BE RESTORED WITHIN THE SAME WORK PERIOD.
5. CONSTRUCT STORM WATER DRAINAGE AND ROADWAY WIDENING ON NORTH AND SOUTH SIDES OF SR 60 AND THE EAST AND WEST SIDES OF 43RD AVE. CONSTRUCTION INCLUDES EMBANKMENT AND EXCAVATION; ALL WORK ASSOCIATED WITH DRAINAGE STRUCTURES AND PIPES; GRADING; ALL WORK ASSOCIATED WITH PLACING OF PAVED ROADWAY, CURB AND GUTTER, SIDEWALK, AND RELATED ITEMS IN TYPICAL SECTION; PLACEMENT OF NEW LIGHTING; ADJUSTMENT TO EXISTING LIGHTING; SODDING; SIGNALIZATION; AND PROTECTION OF EXISTING IRRIGATION SYSTEMS.
6. MAINTAIN A POSTED SPEED LIMIT OF 45 MPH.

1. **PHASE 3** –UTILIZING INDICES 600, 613, 615, 616, 619, 625, 660 43RD AVE. STA. 109+60 TO STA. 153+88, SR 60 STA. 2635+38 TO STA. 2660+50. PHASE 3 CONSISTS OF ALL ROADWAY CONSTRUCTION, STORM WATER DRAINAGE CONSTRUCTION, AND CURB & GUTTER, MEDIAN CONSTRUCTION ON SR 60 AND 43RD AVE.

2. INSTALL ADVANCE CONSTRUCTION AHEAD WARNING SIGNS, BARRICADES, AND CONSTRUCTION SIGNS, AND REMOVE CONFLICTING MARKINGS AND SIGNS.
3. MAINTAIN A POSTED SPEED LIMIT OF 45 MPH.

1. **PHASE 4** –UTILIZING INDICES 600, 613, 615, 616, 619, 625, 660 43RD AVE. STA. 109+60 TO STA. 153+88, SR 60 STA. 2635+38 TO STA. 2660+50. PHASE 4 CONSISTS OF INSTALLATION OF SIGNING AND APPLICATION OF PAVEMENT MARKINGS AND RPM'S.

2. INSTALL ADVANCE CONSTRUCTION AHEAD WARNING SIGNS, BARRICADES, AND CONSTRUCTION SIGNS, AND REMOVE CONFLICTING MARKINGS AND SIGNS.
3. MAINTAIN A POSTED SPEED LIMIT OF 45 MPH.
4. THE FDOT AND/OR INDIAN RIVER COUNTY MAY REQUIRE THAT PHASE 3 BE PERFORMED DURING NIGHT TIME.

1. **PHASE 5** –UTILIZING INDICES 600, 613, 615, 616, 619, 625, 660 43RD AVE. STA. 109+60 TO STA. 153+88, SR 60 STA. 2635+38 TO STA. 2660+50. PHASE 5 CONSISTS OF INSTALLATION OF SIGNING AND APPLICATION OF PAVEMENT MARKINGS AND RPM'S.
2. INSTALL ADVANCE CONSTRUCTION AHEAD WARNING SIGNS, BARRICADES, AND CONSTRUCTION SIGNS, AND REMOVE CONFLICTING MARKINGS AND SIGNS.
3. MAINTAIN A POSTED SPEED LIMIT OF 45 MPH.

GB 99 / LC28000269

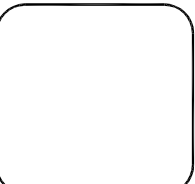


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No:	Revision:	By:	Date:



*Department of Public Works
Engineering Division*

Scale:	Approved:
Drawn: HWD Checked: BF Date: 6/2017 Field Book No:	HWD

Project:	TRAFFIC CONTROL PLANS FOR SR 60 & 43RD AVENUE
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Indian River County Traffic Engineering has underground conduit for traffic signal interconnections in this area as well as other traffic signal equipment. It shall be the contractor's responsibility to contact Sunshine State One Call System at 1-800-432-4770 for locations of this equipment at least 72 hours prior to any construction.

Regarding Traffic Control Plan General Note #5 shown on sheet 94, lane closures are restricted to outside the normal peak hours of traffic, lane closures shall occur during the hours of 9:00 AM to 4:00 PM unless otherwise approved by the County Public Works Director or his designee.

For full road closures, Portable Changeable Message Signs are required to pre-advise the roadway closure, a minimum of seven (7) days in advance of the road closure and during the duration of the road closure. The use of Portable Changeable Message Signs for lane closures on thoroughfare plan roadways will be required. Messages are to be as approved by the Public Works Department and shown on the TCP.

It shall be the responsibility of the contractor to ensure that all subcontractors are in full compliance with all traffic control regulations.

It shall be the responsibility of the contractor working on County roadways or within Right-of-Ways to establish maintenance of traffic prior to any work being performed. The contractor shall frequently monitor the work zone set-up to ensure that all signing is properly placed and that warning signs remain at the proper advance posting distance from the work area. Any signs that do not apply to the work zone shall be removed or covered. The contractor shall remove the work zone set-up at the conclusion of the work.

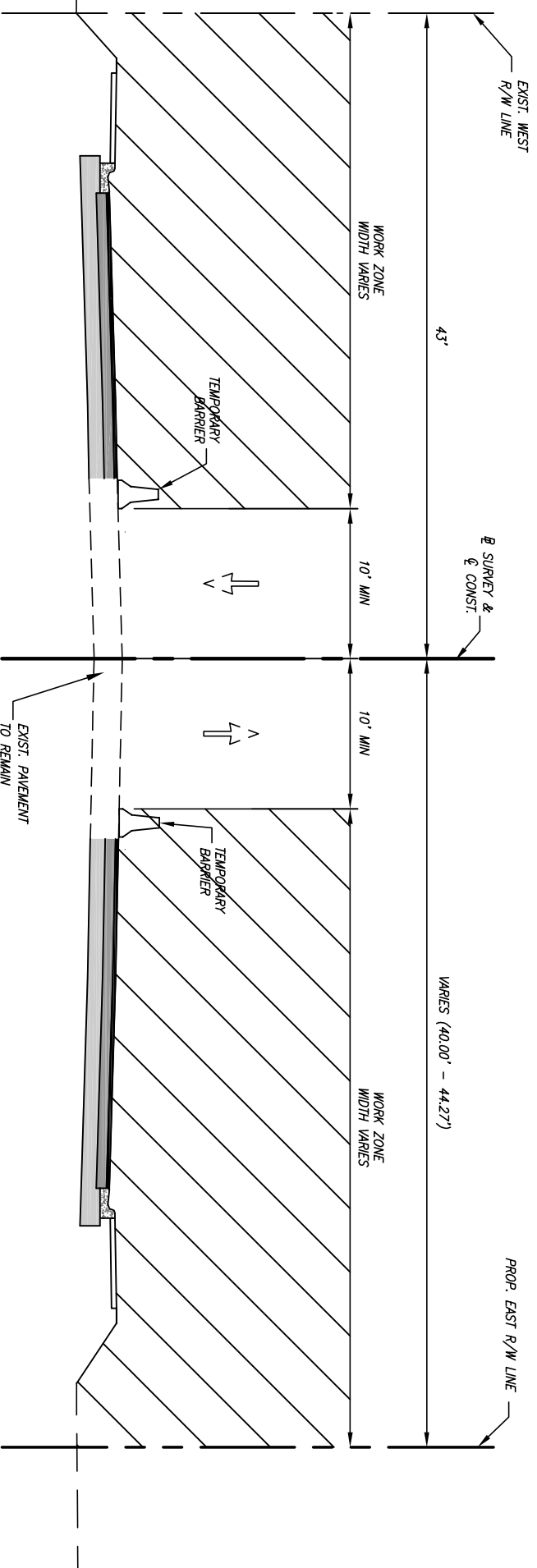
It is the policy of the Traffic Engineering Division to randomly monitor the contractor's compliance with all regulations while working on County roadways and within right-of-ways. Matters of public safety shall be attended to immediately upon notification by the County Public Work Director or his designee.

The contractor shall notify the County Traffic Engineering twenty-four (24) hours in advance of any lane closings at (772) 226-1547. For full road closures, the county shall be notified a minimum of ten (10) days in advance of the planned closure. Public Works Department staff shall inspect the Maintenance of Traffic for compliance with the approved TCP prior to construction commencement.

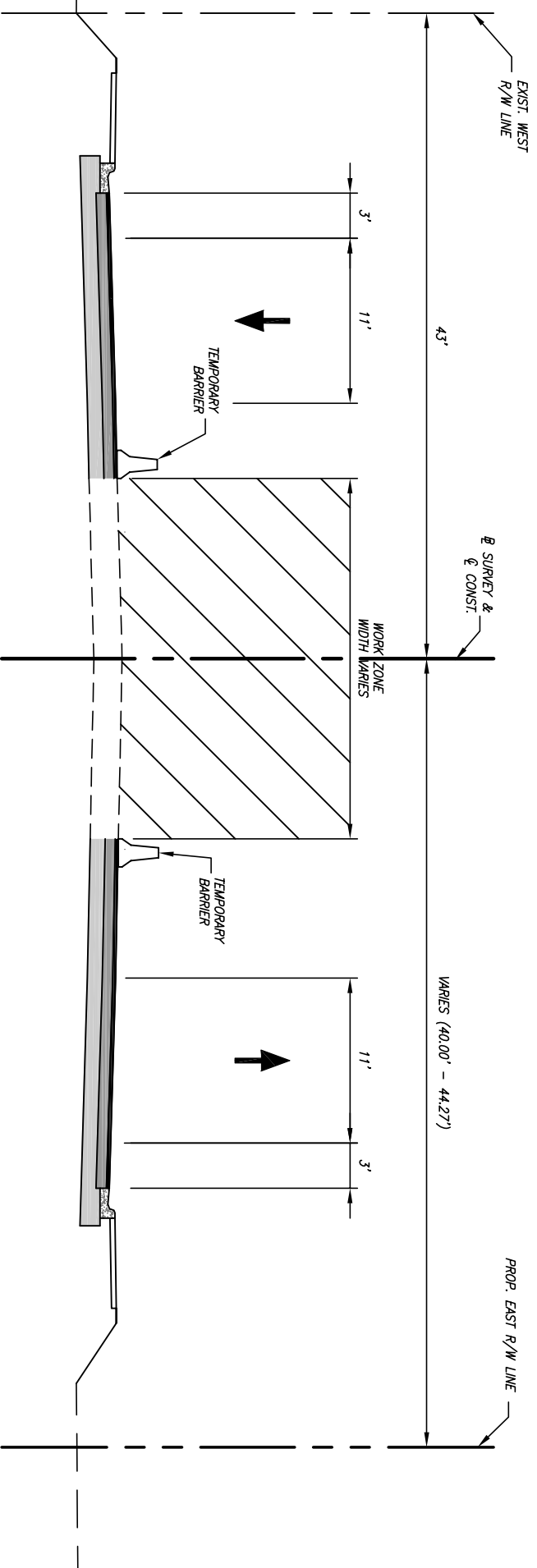
Construction at or Near Signalized Intersections shall comply with Indian River County Traffic Engineering Division's Special Conditions for Right-of-Way Construction.

Retro-reflective raised pavement markers are required in all areas where lane shifts may occur, all temporary centerline pavement markings within the work zone, and all other work zone applications per FDOT Design Standards 2015 Indices 600.

Contractor may provide optional base material slope wedges to mitigate drop off conditions per Index 600.



PHASE II 43RD AVENUE
STA. 109+60 TO STA. 153+88



PHASE III 43RD AVENUE
STA. 109+60 TO STA. 153+88

DESIGN SPEED 45 MPH

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INDIAN RIVER COUNTY
Department of Public Works
Engineering Division

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Project: **TRAFFIC CONTROL PLANS**
FOR
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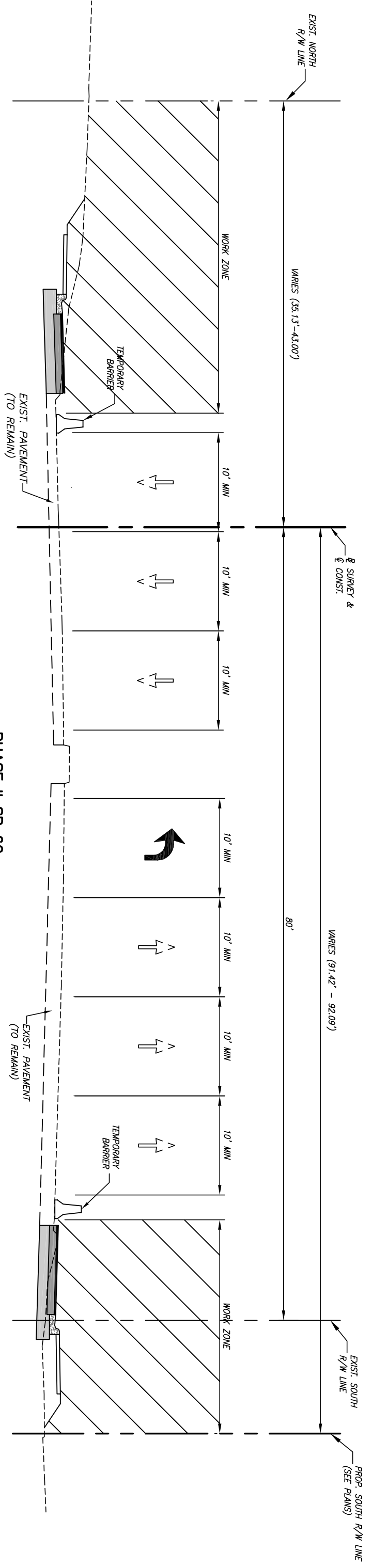


Department of Public Works
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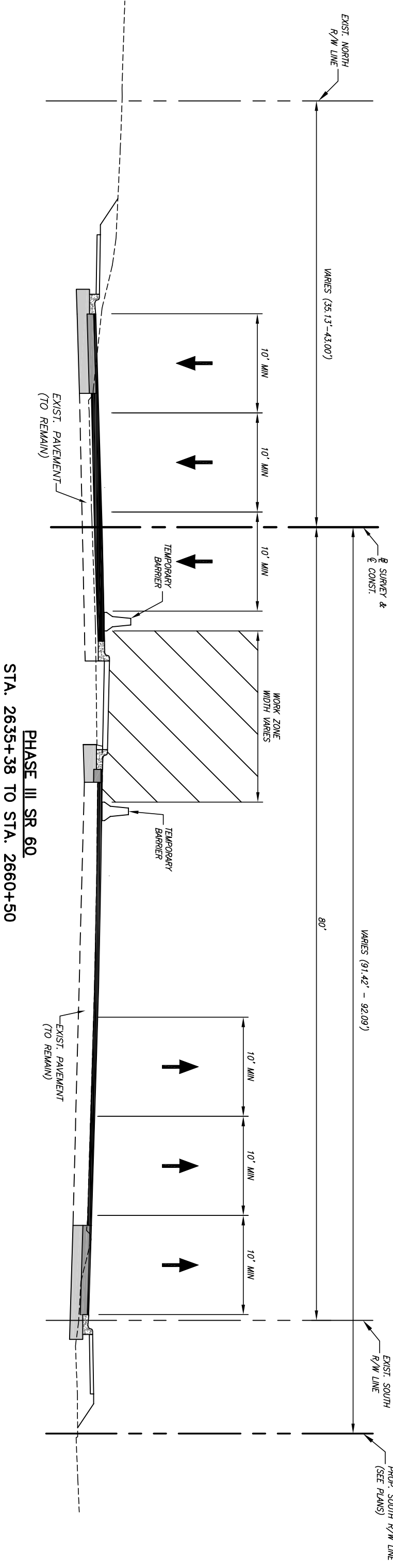
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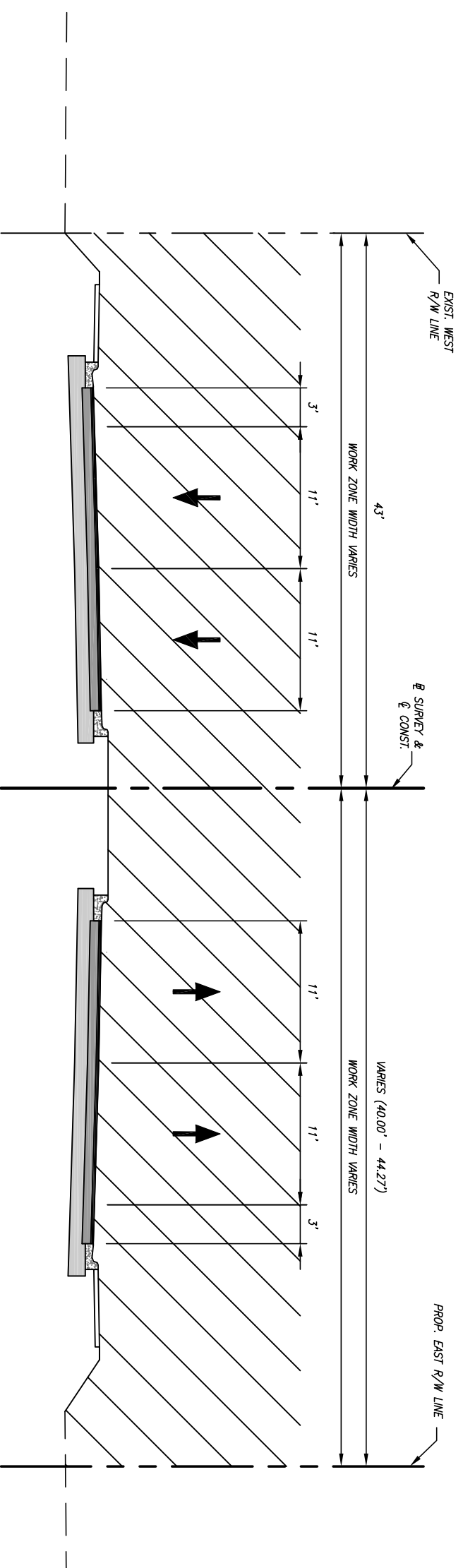
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PHASE IV 43RD AVENUE TYPICAL SECTION
 STA. 109+60 TO STA. 153+88

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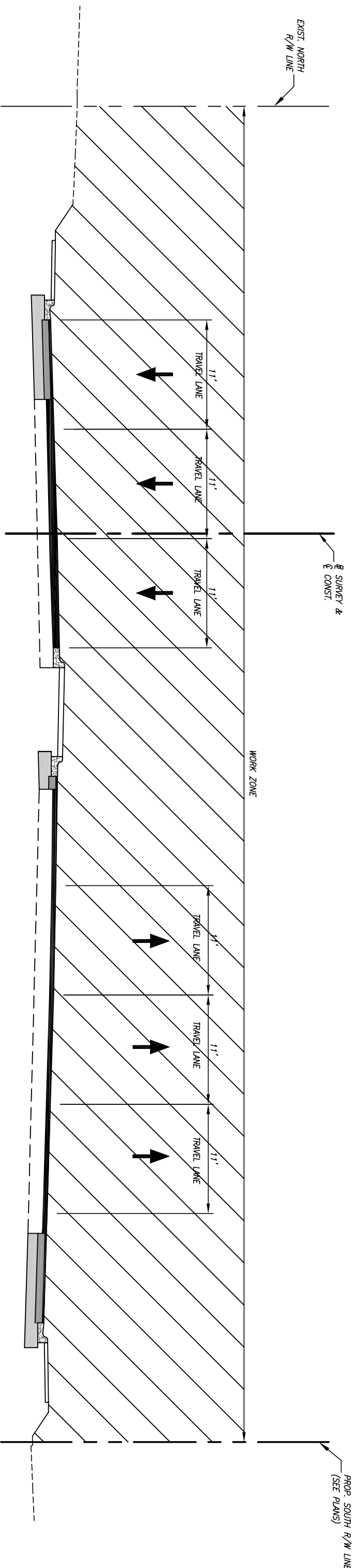
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PHASE IV SR 60
 STA. 2635+38 TO STA. 2660+50

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Engineering Division

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