CONTRACT PLANS COMPONENTS:

ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS
SIGNALIZATION PLANS
LIGHTING PLANS
LANDSCAPE AND IRRIGATION PLANS
STRUCTURAL PLANS

INDEX OF SHEETS

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.

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

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GB330 / LC26000269
EB7917 / LB7062

FDOT FPN# 431759–2–54–01

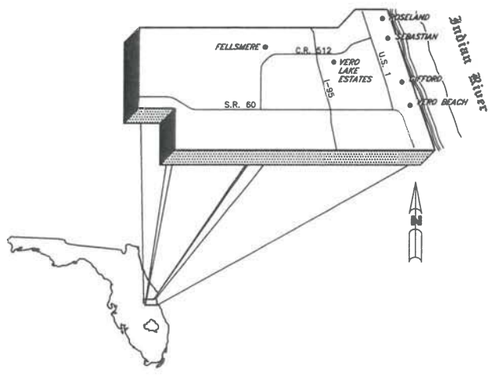
INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS

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



RECEIVED
JAN 08, 2018
INDIAN RIVER COUNTY
ENGINEERING DIVISION

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

COUNTY ENGINEER:
JAMES W. ENNIS, P.E.

PROJECT MANAGER:
WILLIAM JOHNSON, P.E.

LENGTH OF PROJECT				
	SR 60		43RD AVE.	
	MILES	FEET	MILES	FEET
ROADWAY	0.476	2512	0.806	4254
BRIDGES	–	–	0.033	174
NET LENGTH OF PROJECT	0.476	2512	0.839	4428
EXCEPTIONS	–	–	–	–
GROSS LENGTH OF PROJECT	0.476	2512	0.839	4428

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 AS OF THIS DATE FOR INDIAN RIVER COUNTY ENGINEERING DEPARTMENT AND THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION.

DATE: 12-17-18 PROFESSIONAL ENGINEER # 26640

ROBERT W. LAWSON, P.E.

ROBERT W. LAWSON — LICENSE — STATE OF FLORIDA — PROFESSIONAL ENGINEER

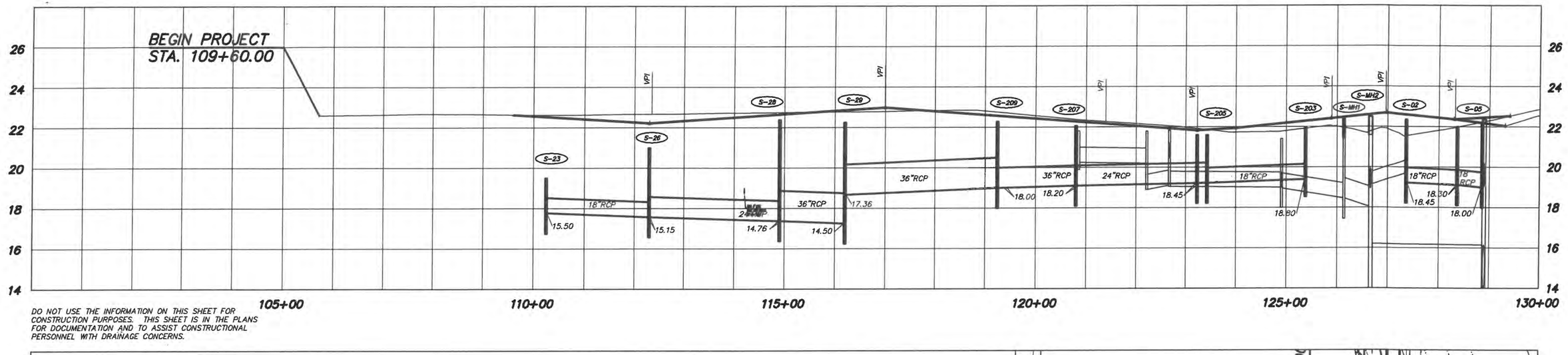
Department of Public Works
Engineering Division

No	Revision:	By:	Date

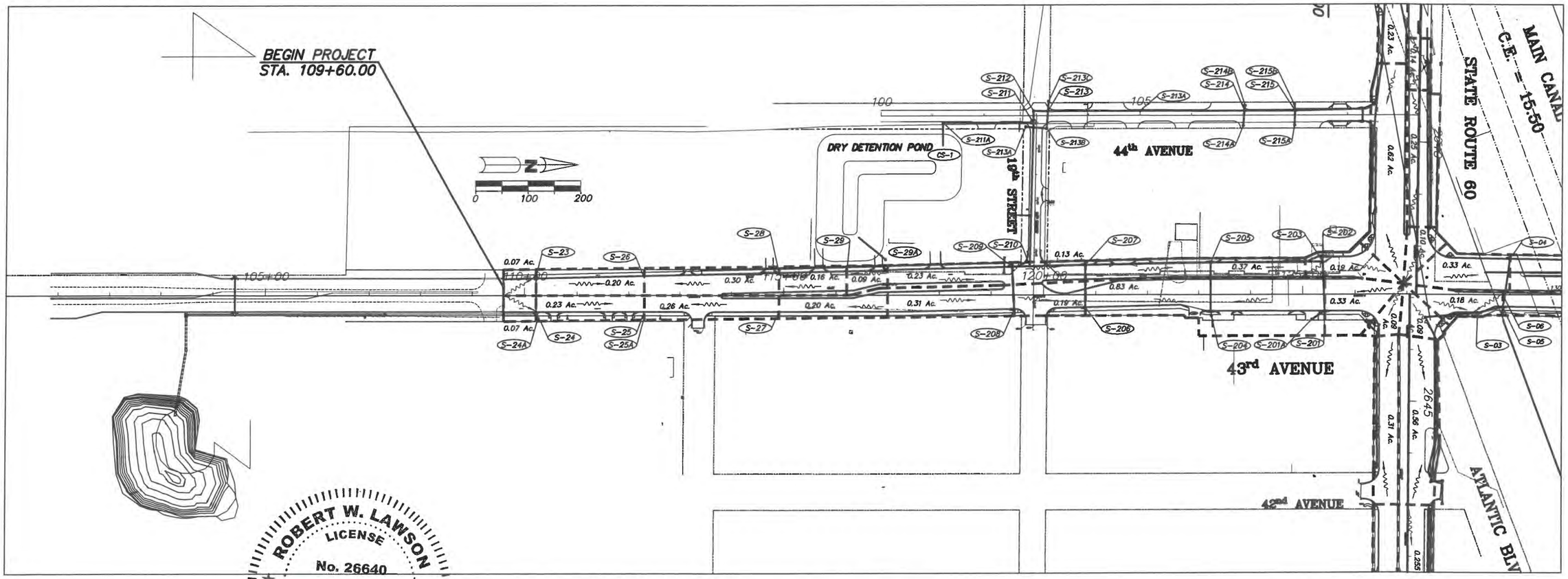
Scale: N.T.S.
Approved: HWD
Drawn: FM
Checked: HWD
Date: 6/2017

STATE ROUTE 60
&
43RD AVENUE

Sheet: 1
Of: 99
Project No.
LNW# WP1027



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



ROBERT W. LAWSON
LICENSE
No. 26640
PROFESSIONAL ENGINEER
STATE OF FLORIDA
DEC 17 2018

GB310 / LC26000269

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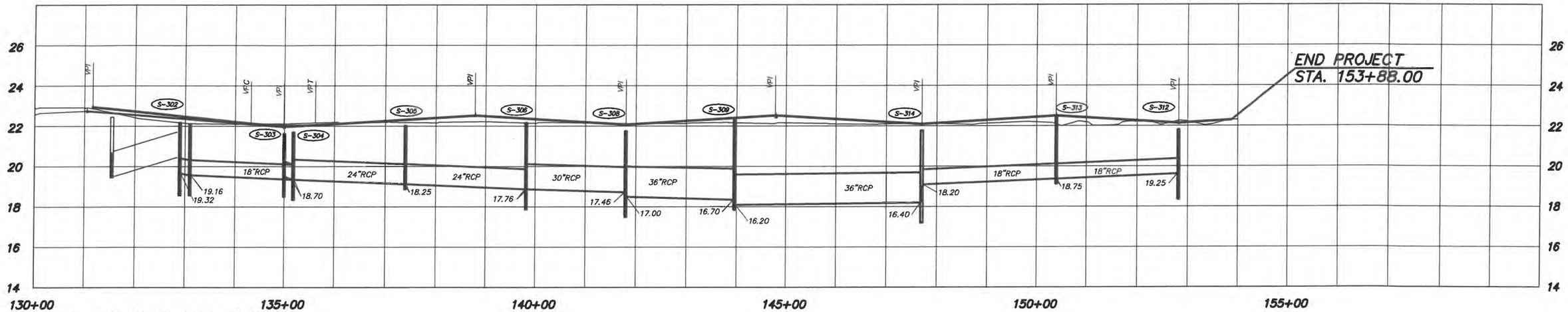
Engineering Division

Scale: 1"=200'
Approved: HWD
Drawn: FM
Checked: HWD
Date: 6/2017
Field Book No:

Project:
DRAINAGE MAP
FOR
SR 60 & 43RD AVENUE

Sheet: 2
Of: 99
Project No.
LNW# WP1027



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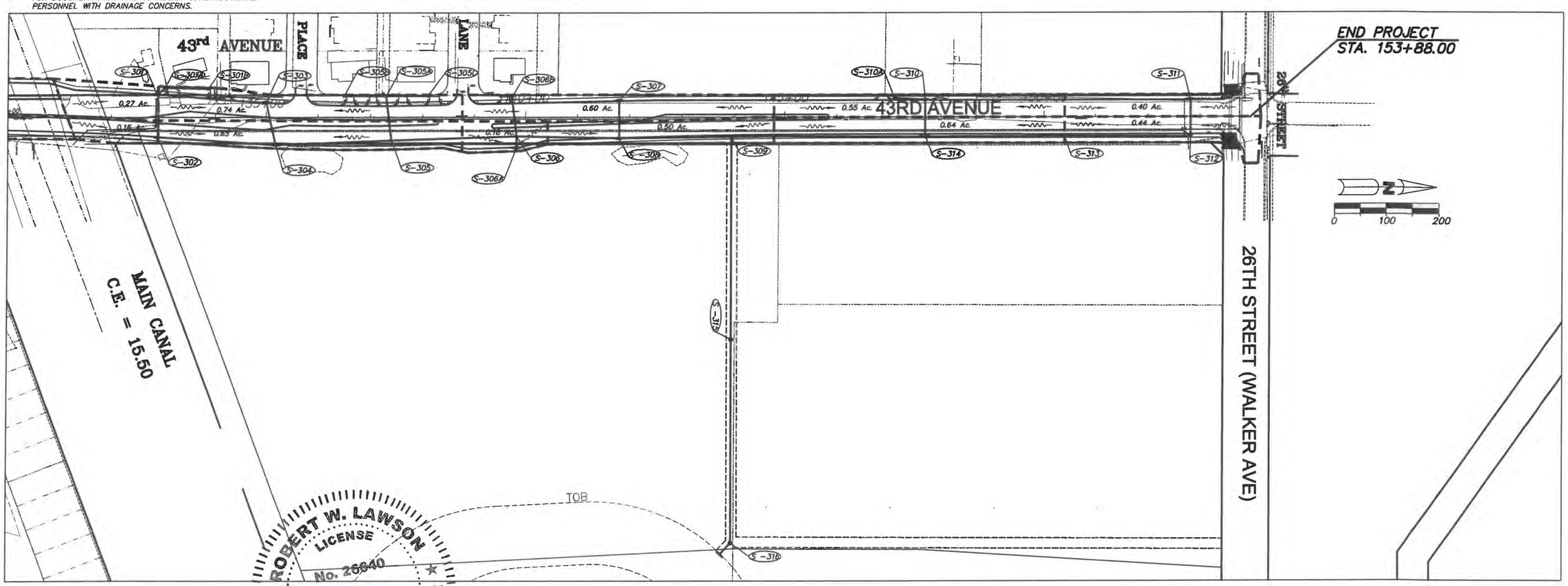

ROBERT W. LAWSON LICENSE No. 26640 PROFESSIONAL ENGINEER

DEC 17 2016

STATE OF FLORIDA

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No.	Revision:	By:	Date:

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Engineering Division

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Approved: HWD
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Checked: HWD
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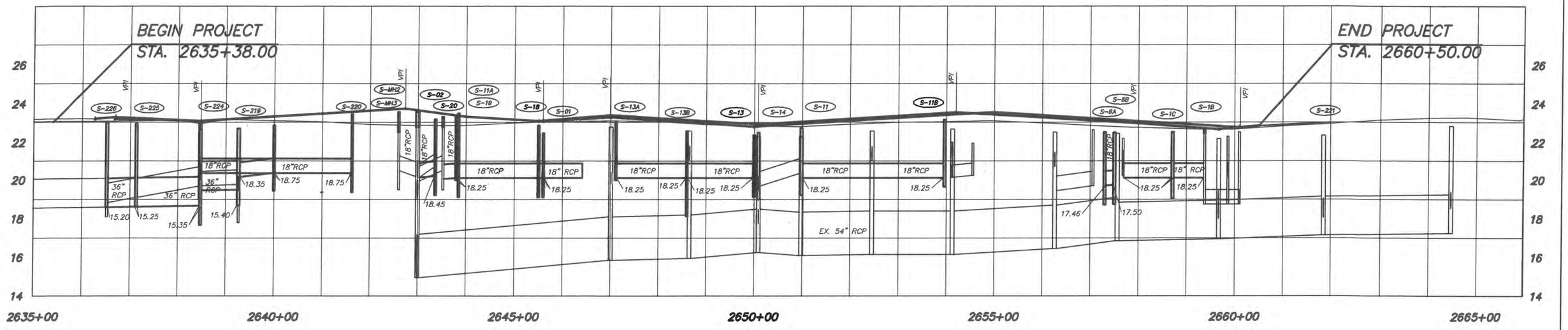
Field Book No:

Project:
DRAINAGE MAP
FOR
SR 60 & 43RD AVENUE

Sheet: 3
Of: 99
Project No.
LNW# WP1027



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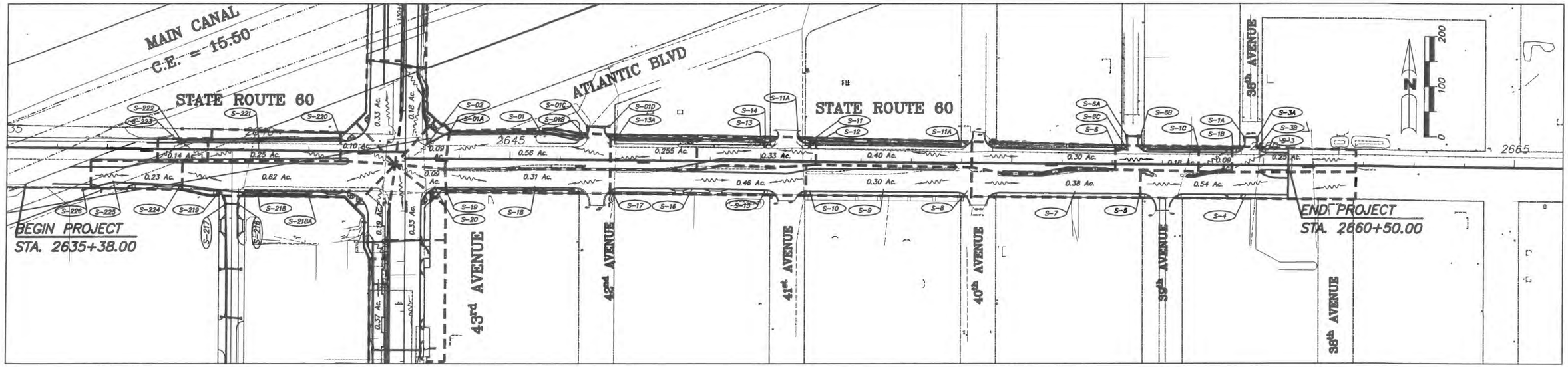

ROBERT W. LAWSON LICENSE No. 25960 STATE OF FLORIDA PROFESSIONAL ENGINEER
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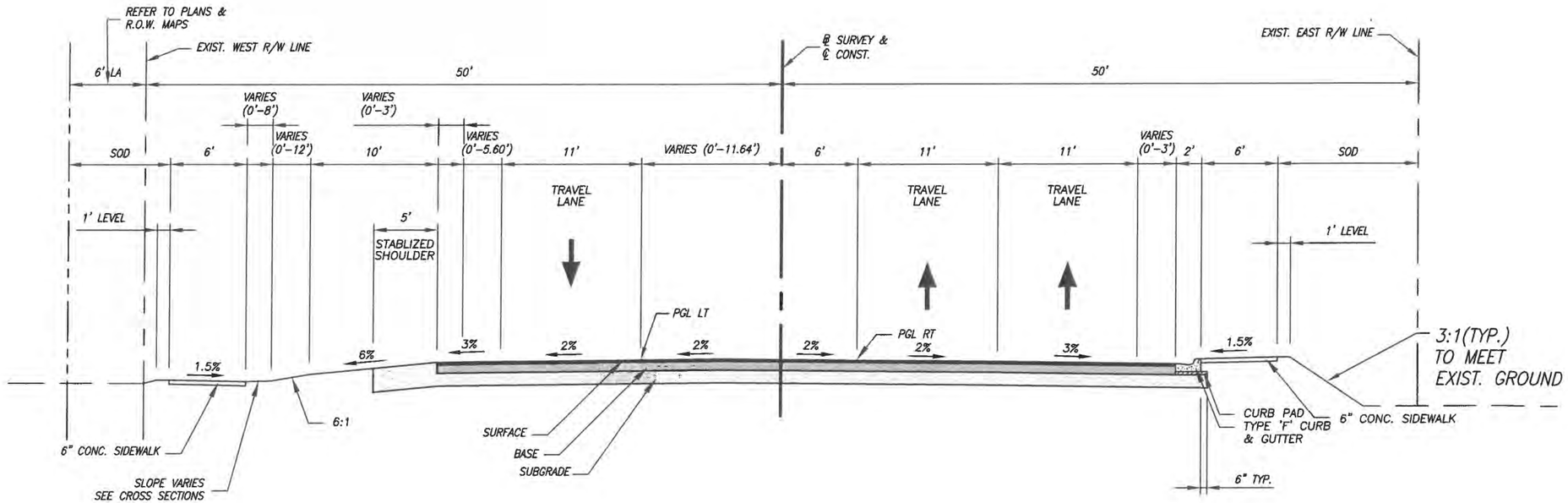
Project:
DRAINAGE MAP
FOR
SR 60 & 43RD AVENUE

Sheet: 4
Of: 99
Project No.
LNW# 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

DESIGN SPEED 45 MPH

NEW CONSTRUCTION	
SURFACE:	1" TYPE FC-9.5 ASPHALTIC CONCRETE SURFACE COURSE (TRAFFIC C) 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)

ROBERT W. LAWSON LICENSE No. 26640 STATE OF FLORIDA PROFESSIONAL ENGINEER
DEC 17 2018

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Project:
TYPICAL SECTIONS
FOR
SR 60 & 43RD AVENUE

Sheet: 5
Of: 99
Project No.
LNW# WP1027

TYPICAL SECTION NOTES:

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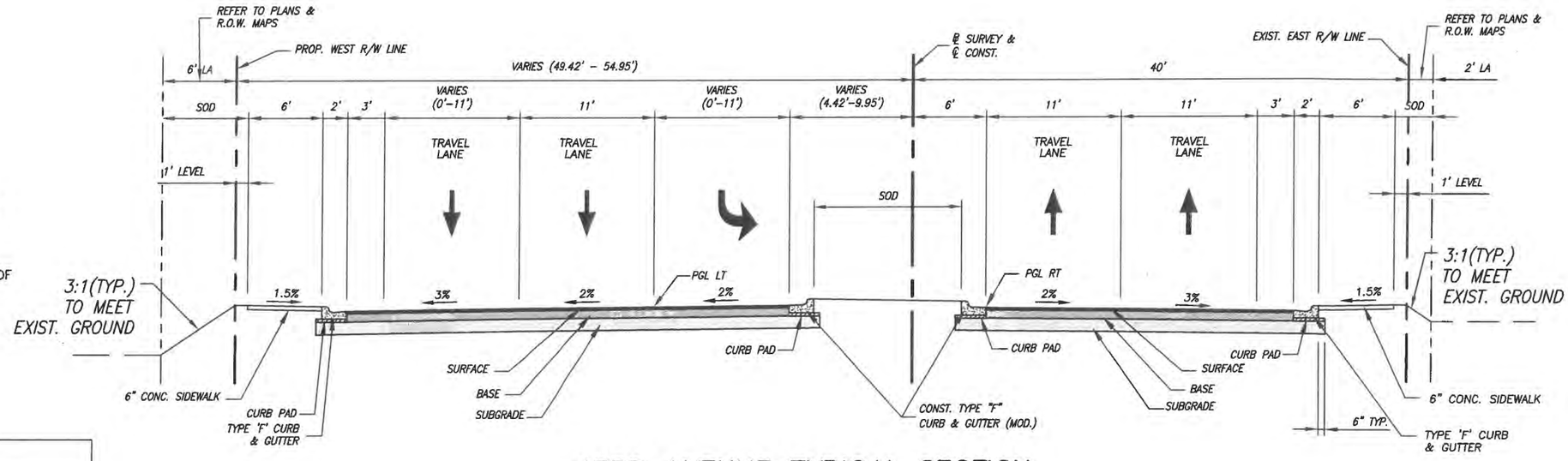
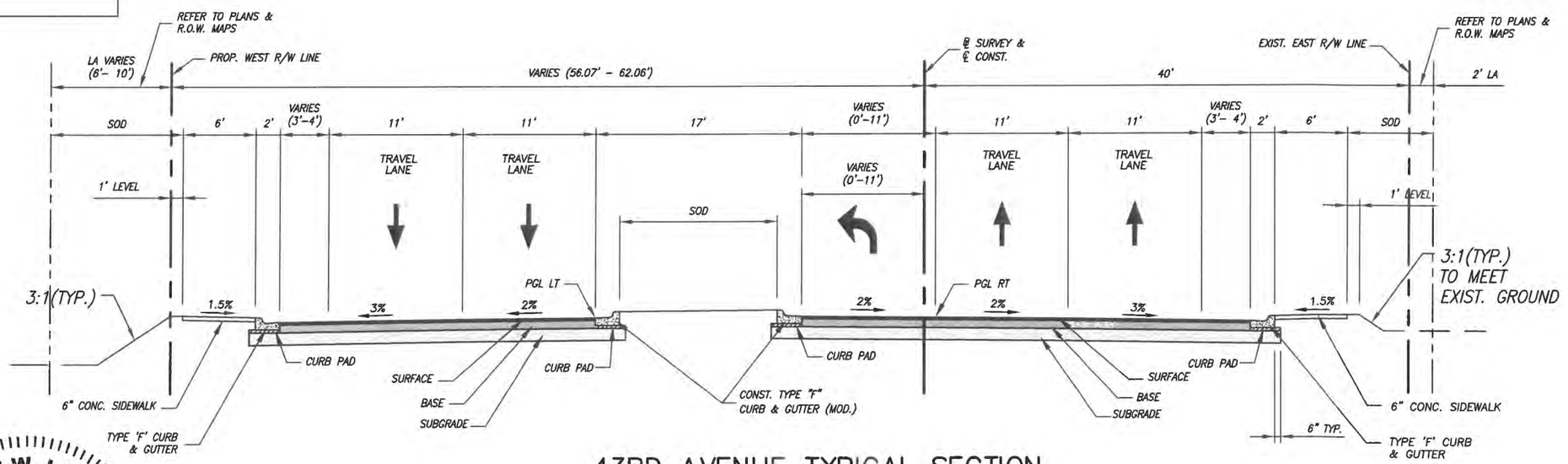


43RD AVENUE TYPICAL SECTION
STA. 113+98.70 TO STA. 116+83



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

DESIGN SPEED 45 MPH

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TYPICAL SECTIONS
FOR
SR 60 & 43RD AVENUE

Sheet: 6
Of: 99
Project No.
LNW# WP1027

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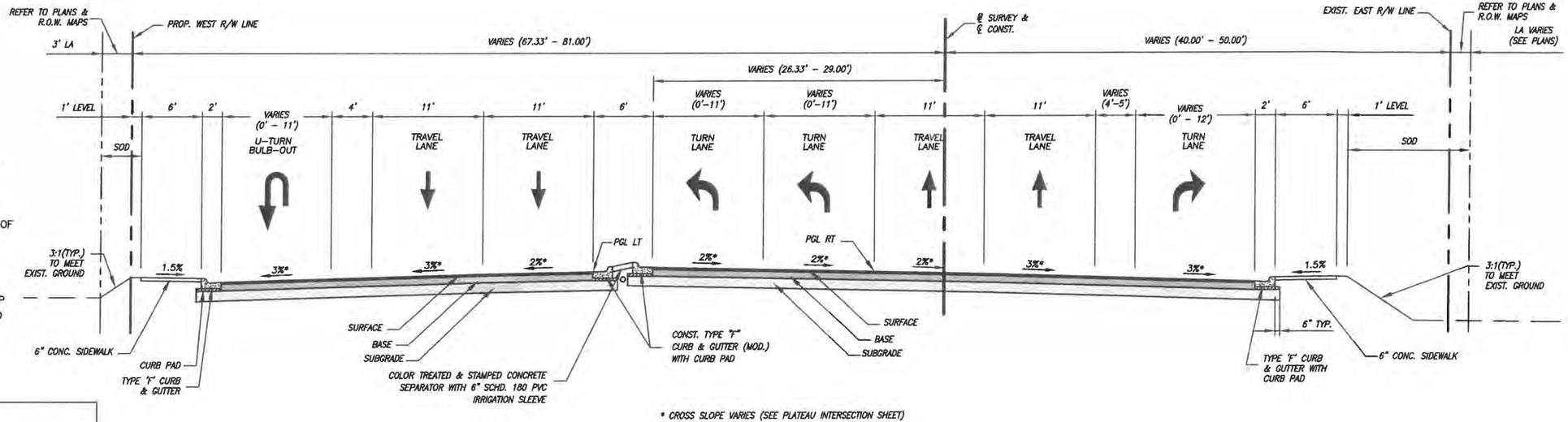
4. OVERBUILD CONSISTING OF 1" TYPE FC-9.5 OVER OVERBUILD SP IS REQUIRED ON SR 60 AND THRU THE INTERSECTION AS INDICATED ON THE PLANS.



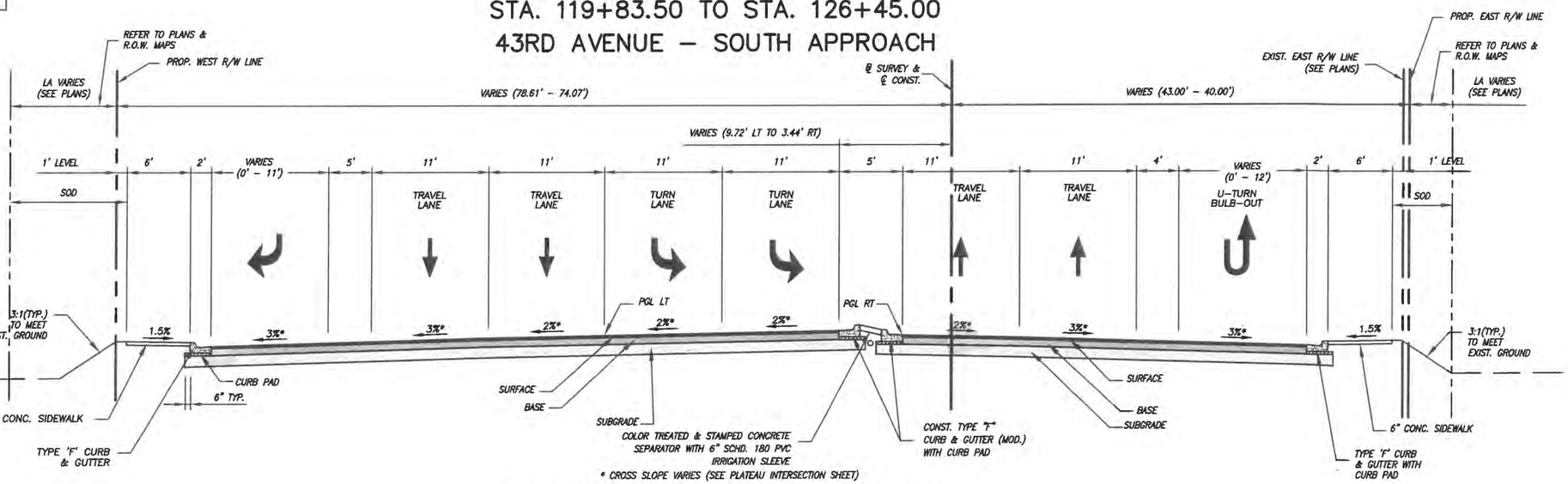
* CROSS SLOPE VARIES (SEE PLATEAU INTERSECTION SHEET)

NEW CONSTRUCTION	
SURFACE:	1" TYPE FC-9.5 ASPHALTIC CONCRETE SURFACE COURSE (TRAFFIC C) 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)

EXPANDED INTERSECTION - TYPICAL SECTION

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

DESIGN SPEED 45 MPH



* CROSS SLOPE VARIES (SEE PLATEAU INTERSECTION SHEET)

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.

ROBERT W. LAWSON LICENSE No. 26640 PROFESSIONAL ENGINEER
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STATE OF FLORIDA

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Engineering Division

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Project:
TYPICAL SECTIONS
FOR
SR 60 & 43RD AVENUE

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Project No.
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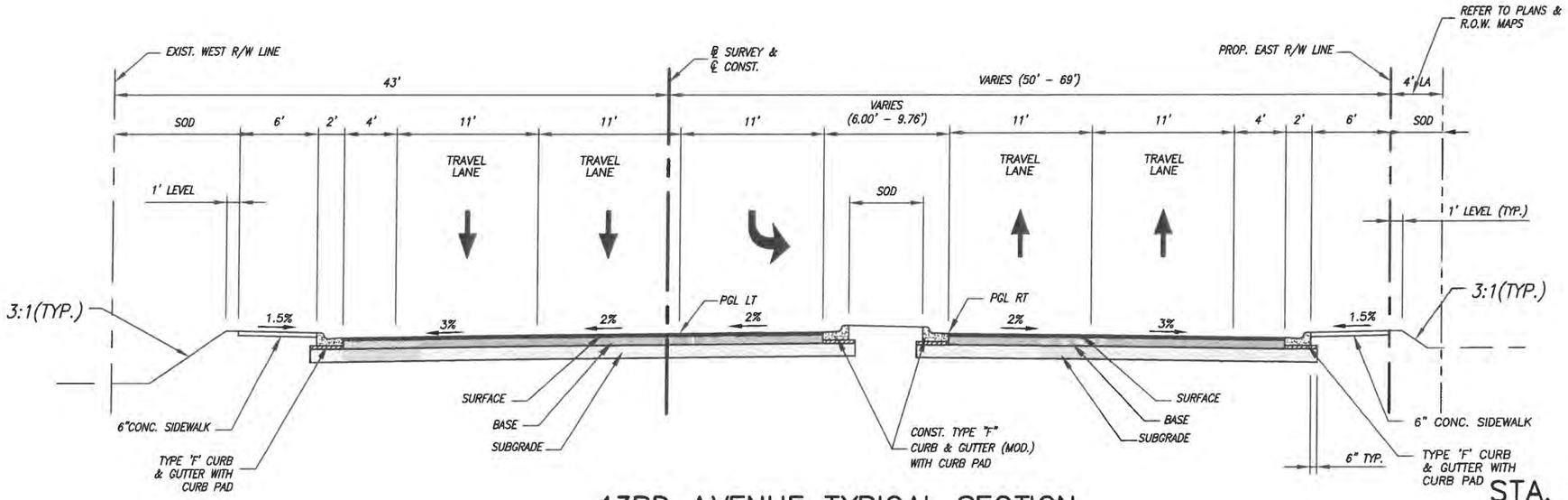
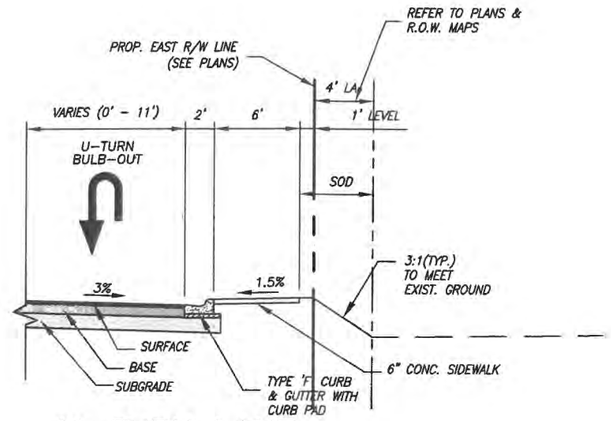


43RD AVENUE TYPICAL SECTION

STA. 139+38.39 TO STA. 142+70.00



U-TURN LANE

STA. 138+40.00 TO STA. 140+40.00

TYPICAL SECTION NOTES:

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DESIGN SPEED 45 MPH

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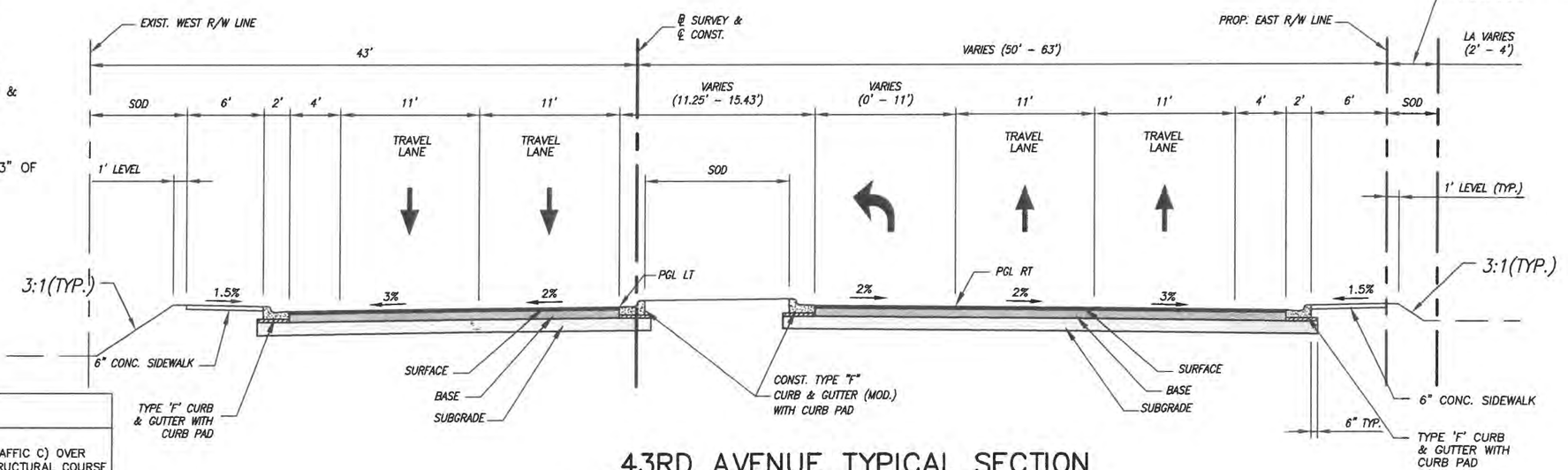

43RD AVENUE TYPICAL SECTION

STA. 133+48.80 TO STA. 138+25.34

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17-137062

No:	Revision:	By:	Date:

Department of Public Works
Engineering Division

Scale:	NTS
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Drawn:	FM
Checked:	HWD
Date:	6/2017
Field Book No:	

Project:
TYPICAL SECTIONS
FOR
SR 60 & 43RD AVENUE

Sheet: 8
Of: 99
Project No.
LNW# WP1027

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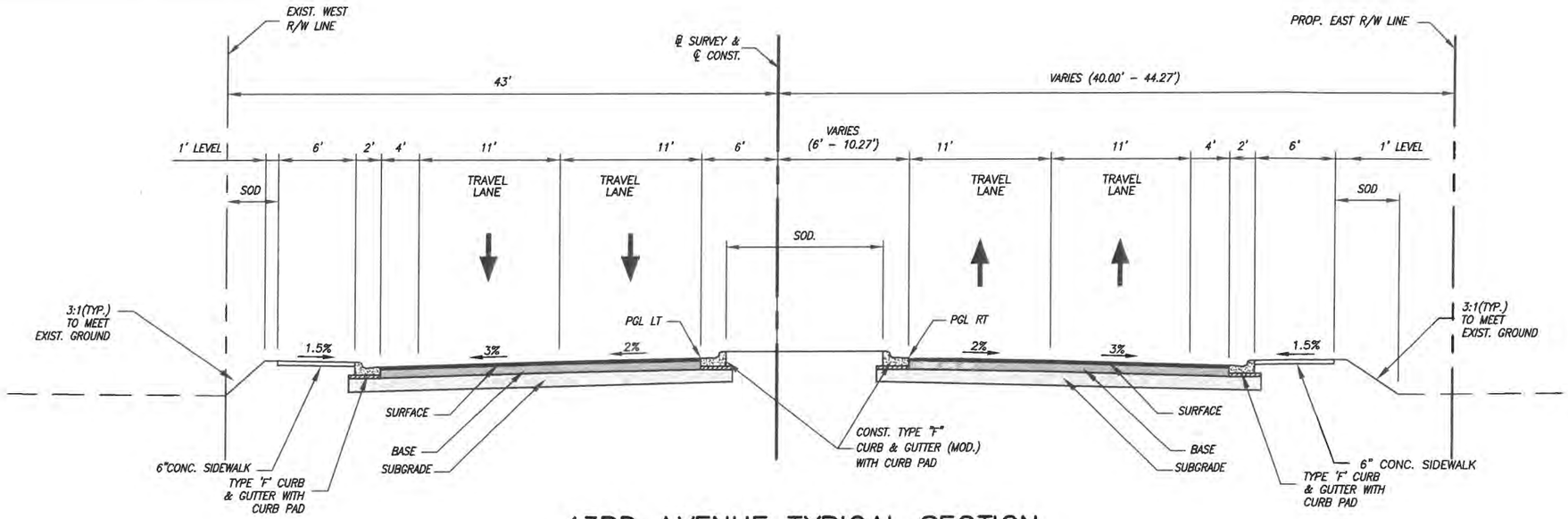
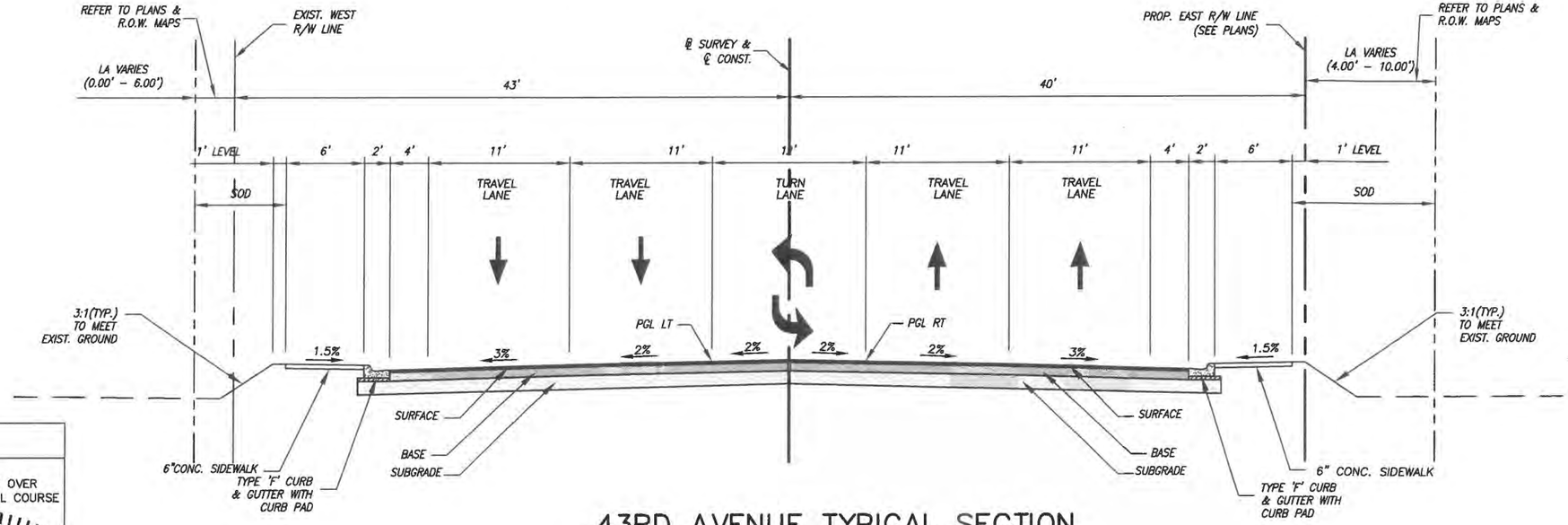


43RD AVENUE TYPICAL SECTION
STA. 142+70.00 TO STA. 145+80.81

DESIGN SPEED 45 MPH



43RD AVENUE TYPICAL SECTION
STA. 145+80.81 TO STA. 153+88

NEW CONSTRUCTION

SURFACE:	1" TYPE FC-9.5 ASPHALTIC CONCRETE SURFACE COURSE (TRAFFIC C) 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)

ROBERT W. LAWSON LICENSE No. 26640 STATE OF FLORIDA PROFESSIONAL ENGINEER
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Project:
TYPICAL SECTIONS
FOR
SR 60 & 43RD AVENUE

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Of: 99
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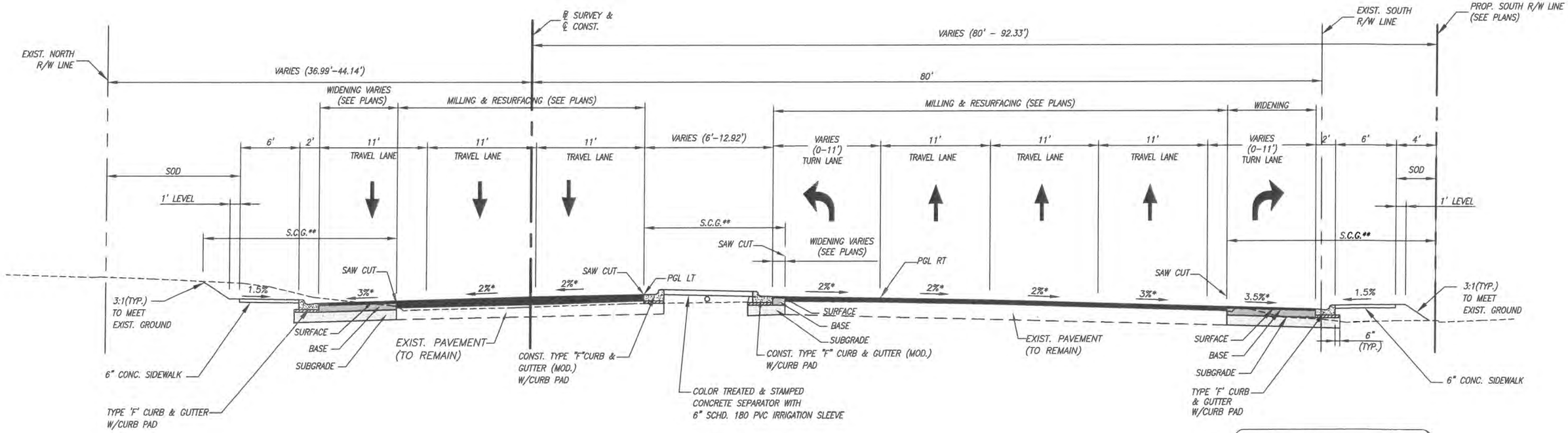

* CROSS SLOPE VARIES (SEE PLATEAU INTERSECTION SHEET)

** STANDARD CLEARING & GRUBBING

DESIGN SPEED 45 MPH

TYPICAL SECTION NOTES:

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4. OVERBUILD. CONSISTING OF 1" FC–9.5 OVER OVERBUILD 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

WIDENING	
SURFACE:	1" TYPE FC–9.5 ASPHALTIC CONCRETE SURFACE COURSE (TRAFFIC C) 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 (VARIABLE DEPTH) (LOCATIONS ARE SHOWN ON THE PLANS)
OVERBUILD:	1" TYPE FC–9.5 ASPHALTIC SURFACE COURSE (TRAFFIC C) (100 LB/SY) AND OVERBUILD AS REQUIRED WITH TYPE SP ASPHALT CONCRETE

ROBERT W. LAWSON LICENSE No. 26640 STATE OF FLORIDA PROFESSIONAL ENGINEER
DEC 17 2018

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Sheet: 10
Of: 99
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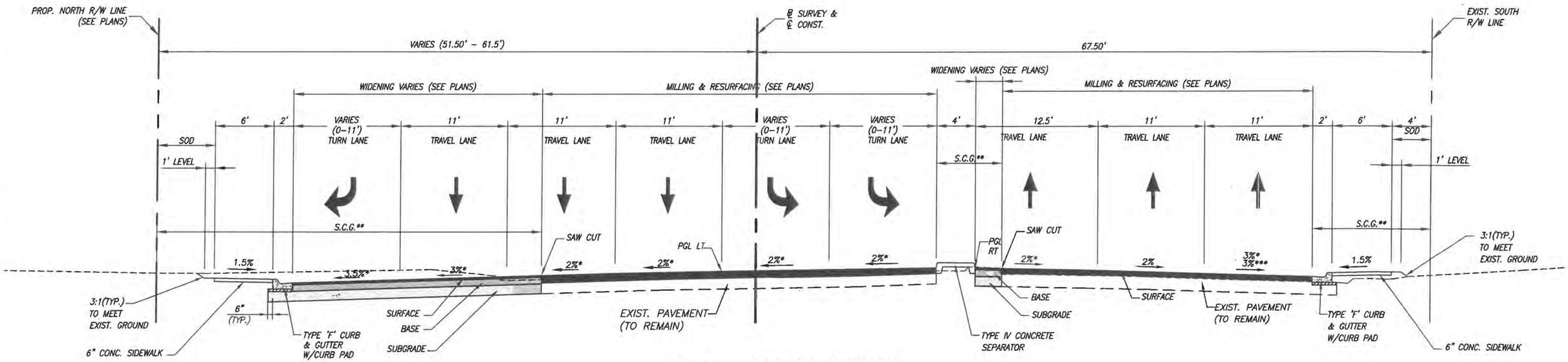

* CROSS SLOPE VARIES (SEE PLATEAU INTERSECTION SHEET)
REFER TO SHEET 27 FOR PLATEAU GRADING WITHIN THE INTERSECTION OF SR 60 & 43RD AVENUE

** STANDARD CLEARING & GRUBBING

*** CROSS SLOPE VARIES FROM 3% TO 4% STA. 2647+29 TO 2649+23 RIGHT

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

DESIGN SPEED 45 MPH

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

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

WIDENING	
SURFACE:	1" TYPE FC–9.5 ASPHALTIC CONCRETE SURFACE COURSE (TRAFFIC C) 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 (VARIABLE DEPTH) (LOCATIONS ARE SHOWN ON THE PLANS)
OVERBUILD:	1" TYPE FC–9.5 ASPHALTIC SURFACE COURSE (TRAFFIC C) (100 LB/SY) AND OVERBUILD AS REQUIRED WITH TYPE SP ASPHALT CONCRETE

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No:	Revision:	By:	Date:

Department of Public Works
Engineering Division
INDIAN RIVER COUNTY FLORIDA

Scale: NTS
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Project:
TYPICAL SECTIONS
FOR
SR 60 & 43RD AVENUE

Sheet: 11
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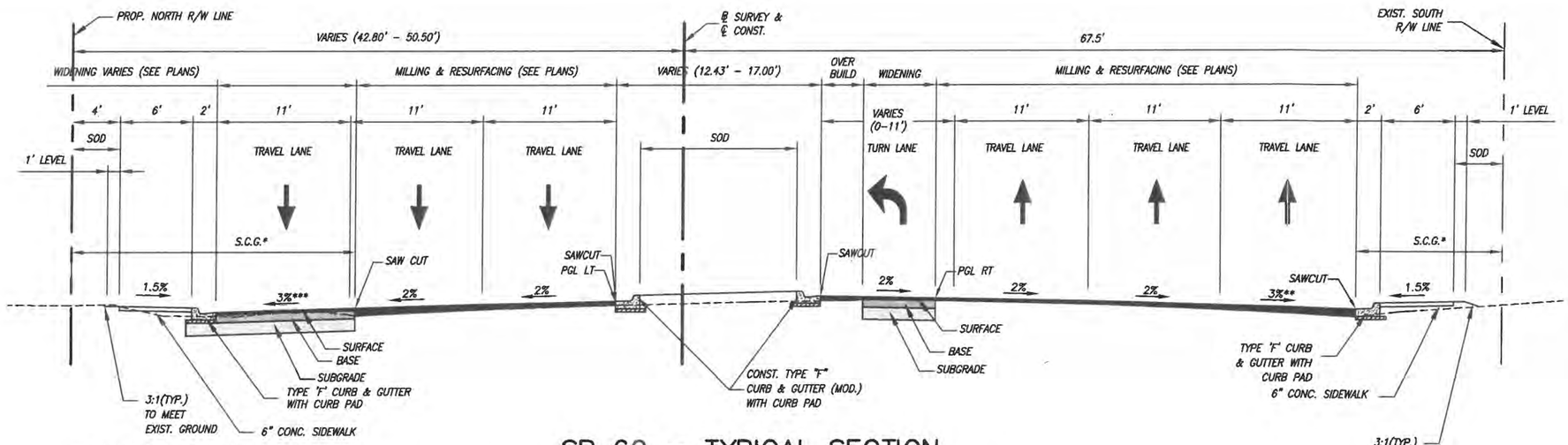
TYPICAL SECTION NOTES:

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

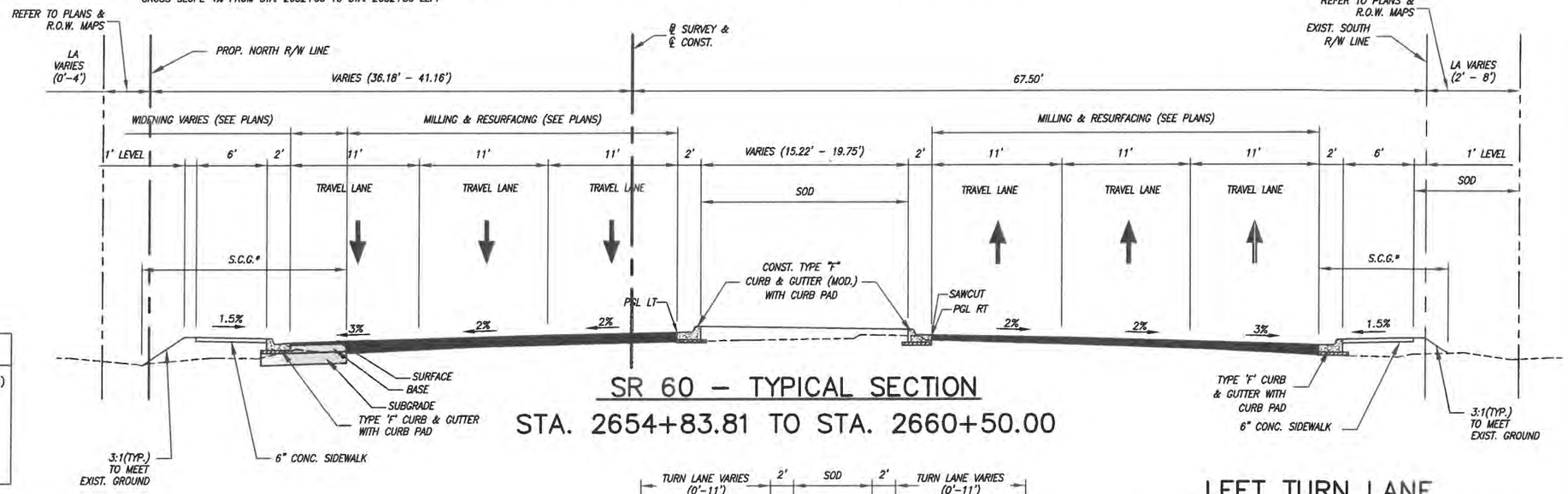
3. CURB PADS SHALL BE CONSTRUCTED OF 6" BASEROCK OR 3" OF B-12.5 AND SHALL EXTEND A MINIMUM OF 6" BEYOND THE BACK OF CURB. COST OF CURB PAD SHALL BE INCLUDED IN THE PRICE FOR CURB & GUTTER

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



* STANDARD CLEARING & GRUBBING
** CROSS SLOPE VARIES 3% TO 4% FROM STA. 2647+29 TO 2648+29 RIGHT, STA. 2649+23 TO STA. 2650+23 RIGHT, CROSS SLOPE 4% FROM STA. 2648+29 TO STA. 2649+23 RIGHT
*** CROSS SLOPE VARIES 3% TO 4% FROM STA. 2651+00 TO 2652+80 LEFT, STA. 2652+80 TO STA. 2653+80 LEFT, CROSS SLOPE 4% FROM STA. 2652+00 TO STA. 2652+80 LEFT

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



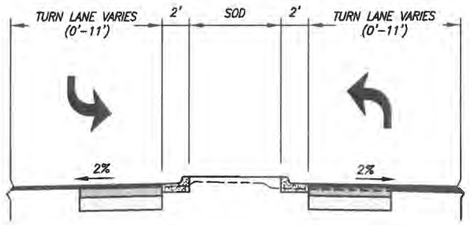
SR 60 - TYPICAL SECTION
STA. 2654+83.81 TO STA. 2660+50.00

DESIGN SPEED 45 MPH

WIDENING	
SURFACE:	1" TYPE FC-9.5 ASPHALTIC CONCRETE SURFACE COURSE (TRAFFIC C) 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 (VARIABLE DEPTH) (LOCATIONS ARE SHOWN ON THE PLANS)
OVERBUILD:	1" TYPE FC-9.5 ASPHALTIC SURFACE COURSE (TRAFFIC B) (220 LB/SY) AND OVERBUILD AS REQUIRED WITH TYPE SP ASPHALT CONCRETE

* STANDARD CLEARING & GRUBBING



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

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Engineering Division

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Project:
TYPICAL SECTIONS
FOR
SR 60 & 43RD AVENUE

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Project No.
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SUMMARY OF PAY ITEMS

NO.	ITEM	UNIT	QUANTITY
	ROADWAY CONSTRUCTION		
0101 1	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	CHANGEABLE VARIABLE MESSAGE SIGN (18)	ED	7520
0104	N.P.D.E.S. COMPLIANCE	LS	1
0104 10 3	SEDIMENT BARRIER	LF	16456
0104 11	FLOATING TURBIDITY BARRIER	LF	560
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	12" STABILIZED SUBGRADE TYPE "B" (LBR 40)	SY	44046
0285 707	9" CEMENTED COQUINA	SY	40554
0286 1	TURNOUT CONSTRUCTION, CONCRETE	SY	1526
0286 2	TURNOUT CONSTRUCTION, ASPHALT	SY	1183
0327 70 1	MILL EXISTING ASPHALT PAVEMENT, VARIABLE DEPTH	SY	2944
0334 1 13	TYPE SP ASPHALT CONCRETE OVERBUILD	TN	7200
0334 1 13	SUPERPAVE ASPHALTIC CONCRETE,SP-12.5, TRAFFIC C, 1-1/2" THICK	SY	40554
0337 7 32	ASPHALT CONCRETE FRICTION COURSE, FC-9.5, TRAFFIC C, RUBBER, 1" THICK	SY	60965
0400 0 11	CONCRETE CLASS NS, GRAVITY WALL	CY	81.9
0400 1 2	CONCRETE CLASS I, ENDWALLS	CY	6.33
0400 2 2	CONCRETE CLASS II, ENDWALLS	CY	27.4
0415 1 1	REINFORCING STEEL - ROADWAY	LB	1648
0425 1311	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	17
0425 1352	INLETS, CURB, TYPE P-5, >10'	EA	1
0425 1361	INLETS, CURB, TYPE P-6, <10'	EA	10
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 C, <10'	EA	26
0425 1521	INLETS, DITCH BOTTOM, TYPE C, <10' (MODIFIED)	EA	1
0425 1705	INLETS, GUTTER, TYPE V, <10'	EA	2
425 1511	INLETS, DITCH BOTTOM, TYPE P-X, <10'	EA	2
425 1512	INLETS, DITCH BOTTOM, TYPE P-X, >10'	EA	1
0425 2 41	MANHOLES, P-7, <10'	EA	3
0425 2 43	MANHOLES, P-7, PARTIAL	EA	1
0425 2 61	MANHOLES, P-8, <10'	EA	3
0425 2 63	MANHOLES, P-8, PARTIAL	EA	1
0425 2 71	MANHOLES, J-7, <10'	EA	5
0425 2 91	MANHOLES, J-8, >10'	EA	10
0425 4	INLETS, ADJUST	EA	7
0425 5	MANHOLE, ADJUST	EA	7
0425 6	VALVE BOXES, ADJUST	EA	38
430174115	PIPE CULVERT, RCP, ROUND, 15" SD	LF	30
430174118	PIPE CULVERT, RCP, ROUND, 18" SD	LF	3957
430174124	PIPE CULVERT, RCP, ROUND, 24" SD	LF	1143
430174130	PIPE CULVERT, RCP, ROUND, 30" SD	LF	198
430174136	PIPE CULVERT, RCP, ROUND, 36" SD	LF	2231
430174142	PIPE CULVERT, RCP, ROUND, 42" SD	LF	814
430175215	PIPE CULVERT, RCP, ROUND, 48"	LF	85
0443 70 3	FRENCH DRAIN, 18"	LF	1616
0515 1 1	PIPE HANDRAIL - GUIDERAIL, ALUMINUM	LF	1177
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	SIDEWALK CONCRETE, 6" THICK	SY	6242
0570 1 2	PERFORMANCE TURF, SOD	SY	15606
630-2-11	2-2" PVC CONDUITS	LF	20
635-2-12	PULL & SPLICE BOX, F & I (30"x48"x24")	EA	2

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. RAMPS, 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; GUARDRAIL; 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, 0120 6 INCLUDES ALL EARTHWORK ITEMS (EXCAVATION AND EMBANKMENT) FOR ROADWAY, CURB, SIDEWALK, AND DRIVEWAY CONSTRUCTION. INCLUDES FINAL GRADING & SHAPING AS NECESSARY FOR FINAL RESTORATION.

ITEM 0160 4 INCLUDES COMPACTION OF SUBGRADE IN ACCORDANCE WITH SECTION 120-9 OF THE FDOT SPECIFICATIONS.

ITEM 0334 1 13, 0337 7 32 INCLUDES BITUMINOUS MATERIAL, PRIME COAT AND TACK COAT, AS REQUIRED.

ITEM 0120 6 THIS ITEM IS FILL COMPACTED IN PLACE.

ITEM 0425 1311 THRU 0425 1705 INCLUDES TEMPORARY SHEET PILING AS NEEDED FOR DRAINAGE INSTALLATION.

ITEM 0425 1421, 0425 2 71, 0425 2 63, 0425 4 THIS ITEM INCLUDES ALL LABOR, MATERIALS, & EQUIPMENT FOR THE CONTROL STRUCTURE.

ITEM 0522 2 INCLUDES THICKENED EDGE. ALL CONC. SIDEWALKS AND DRIVEWAYS SHALL BE 6" THICK FIBER REINFORCED CONC.

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
- ELECTRIC MANHOLE
- FIRE HYDRANT
- SANITARY MANHOLE
- SIGN
- TELEPHONE MANHOLE
- WATER METER
- WOOD UTILITY POLE
- CHAIN-LINK FENCE
- WOOD FENCE
- FOUND CONCRETE MONUMENT
- FOUND IRON PIPE
- FOUND ELECTRIC BOX/METER
- FOUND BELLSOUTH MANHOLE
- GATE VALVE
- GUARDRAIL
- MAIL BOX
- SURFACE WATER
- = FOUND IRON ROD WITH CAP
- = FOUND P-K NAIL
- = FOUND PERMANENT CONTROL POINT
- = SET 5/8" IRON ROD WITH CAP NO. LB4103
- = SET P-K NAIL WITH DISC NO. LB4103
- BLACK OLIVE TREE
- PALM TREE
- OAK TREE
- UNKNOWN SPECIES TREE

SUMMARY OF PAY ITEMS

NO.	ITEM	UNIT	QUANTITY
1050 11223	6" HDPE FORCE MAIN CASING	LF	85
1050 31206	UTILITY PIPE - PVC, F&I 6"	LF	845
	SIGNING & PAVEMENT MARKINGS		
0700 2011	SINGLE POST SIGN, F&I, <12 SF	AS	64
0700 2013	SINGLE POST SIGN, F&I, 21-30 SF	AS	9
0700 2040	SINGLE POST SIGN, RELOCATE	AS	13
0705 111	DELINEATOR, FLEXIBLE TUBULAR	EA	18
0706 3	RETRO-REFLECTIVE PAVEMENT MARKER	EA	780
0711 11111	THERMOPLASTIC, STANDARD, WHITE, SOLID, 6"	NM	3.14
0711 11122	THERMOPLASTIC, STANDARD, WHITE, SOLID, 8"	LF	2135
0711 11123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12"	LF	2086
0711 11124	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18"	LF	455
0711 11125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24"	LF	563
0711 11131	THERMOPLASTIC, STANDARD, WHITE, SKIP, 6"	GM	3.59
0711 11160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE	EA	17
0711 11170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA	88
0711 11211	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 6"	NM	2.26
0711 11222	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18"	LF	77
0711 11231	THERMOPLASTIC, STANDARD, YELLOW, SKIP, 6"	GM	0.44
	SIGNAL		
630 2 11	CONDUIT (F&I)(UNDERGROUND)	LF	12057
630 2 12	CONDUIT (F&I)(UNDERPAVEMENT)(DIRECTIONAL BORE)	LF	1083
630 2 15	CONDUITS (F&I)(BRIDGE MOUNTED)	LF	1620
632 7 1	CABLE (SIGNAL)(F&I)	PI	1
633 1 123	FIBER OPTIC CABLE (F&I)(UNDERGROUND)(96 SINGLE MODE)	LF	7296
633 3 15	FIBER OPTIC CONNECTION HARDWARE (F&I)(PRETERMINATED PATCH PANEL)	EA	1
635 2 11	PULL & SPLICE BOXES (F&I)	EA	23
635 2 13	PULL & SPLICE BOXES (F&I)(FIBER OPTICS)	EA	26
639 1 123	ELECTRICAL POWER SERVICE (F&I)(UNDERGROUND)	AS	1
639 2 1	ELECTRICAL SERVICE WIRE (F&I)(POLE)	LF	200
639 3 11	ELECTRICAL SERVICE DISCONNECT (F&I)(POLE)	EA	1
641 2 12	PRE-STRESSED CONCRETE POLE (F&I)(P-11)	EA	1
641 2 80	CONCRETE POLE REMOVAL (COMPLETE/DEEP)	EA	4
646 1 11	ALUMINUM SIGNAL POLES (F&I)(PEDESTAL)	EA	8
649 31 105	MAST ARM (F&I)(SINGLE ARM W/O LUM)(78')	EA	1
649 31 109	MAST ARM (F&I)(SINGLE ARM W/ LUM)(70.5')	EA	2
649 31 118	MAST ARM (F&I)(DOUBLE ARM W/O LUM)(70.5'-60')	EA	1
650 1 24	TRAFFIC SIGNAL (F&I)(3-SECT)(1 WAY)(ALUM)	AS	16
650 1 29	TRAFFIC SIGNAL (F&I)(5-SECT)(1 WAY)(ALUM)	AS	4
653 1 11	PEDESTRIAN SIGNAL (F&I)(LED, 1 WAY)	AS	8
660 4 11	VEHICLE DETECTION (F&I)(VIDEO)(CABINET EQUIPMENT)	EA	4
660 4 12	VEHICLE DETECTION (F&I)(VIDEO)(ABOVE GROUND)	EA	4
665 1 11	PEDESTRIAN DETECTOR (F&I)(STD)	EA	8
670 5 110	TRAFFIC CONTROLLER ASSEMBLY (F&I)(NEMA)	AS	1
670 5 600	CONTROLLER ASSEMBLY (REMOVE)	AS	1
682 1 133	CCTV CAMERA (F&I)(NON-PRESSURIZED)(IP, HIGH DEF)	EA	1
684 1 1	MANAGED FIELD ETHERNET SWITCH (F&I)	EA	1
685 106	SYSTEM AUXILIARIES (UNINTERRUPTIBLE POWER SOURCE)(F&I)	EA	1
700 3 201	SIGN PANEL (F&I)(OVERHEAD)(12 SF)	EA	4
700 5 21	INTERNALLY ILLUMINATED SIGN (F&I)(NAME)(OVERHEAD)(12 SF)	EA	4

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

Sheet: 13
Of: 99
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SUMMARY OF PAY ITEMS

NO.	ITEM	UNIT	QUANTITY
	LIGHTING		
715 1 12	LIGHTING CONDUCTOR, F&I, INSULATED, No. 4	LF	36765
715 2 11 1	LIGHTING CONDUIT, F&I, UNDERGROUND, 2" PVC SCH. 40	LF	11094
715 4 111	CONFLICT LIGHT POLE COMPLETE W/ CONCRETE BASE, F&I, WIND SPEED 160	EA	36
715 4 111	STANDARD LIGHT POLE COMPLETE W/ CONCRETE BASE, F&I, WIND SPEED 160	EA	30
715 5 11	LUMINAIRE AND BRACKET ARM MOUNTED ON SIGNAL POLE, F&I	EA	4
715 14 11	PULL BOX (F&I) (ROADSIDE), MOULDED	EA	71
715 500 1	POLE CABLE DISTRIBUTION SYSTEM, IP-68	EA	70
715 7 11	LOAD CENTER (INCLUDES ALL COMPONENTS LISTED ON SERVICE POINT DETAILS DRAWING)	EA	3
	LANDSCAPE		
	HARDSCAPE		
526 1 2	BELGARD (HOLLAND 4"x8" 80MM)(RED, CHESNUT, CHARCOAL)(45° HERRINGBONE)	SY	290
523 1	DURATHERM (INTEGRATED PAVING CONCEPTS)(CINNAMON)(WAGON WHEEL)	SY	800
520 2 13	HEADER CURB	LF	632
	PLANT LIST		
	TREES		
580 5 5532	GORDONIA IASIANTHUS (LOBLOLLY BAY)(8-10'x 4-5' 2.75 CAL)	EA	9
580 5 572	LIGUSTRUM JAPONICUM (JAPANESE PRIVET)(8-10' OA MULTISTEM	EA	14
580 4 235	PHOENIX SYLVESTRIS (SYLVESTER DATE PALM)(16' CT)	EA	3
580 4 345	SABAL PALMETTO (SABAL PALM)(16-20' CT)	EA	5
	SHRUBS		
580 7 177	ILEX BOMITORIA "Schillings" (DWARF YAUPONHOLLY)(#7 FULL)(24" OC)	EA	48
580 7 337	MYRCIANTHES FRAGRANS (SIIMPSON'S STOPPER)(#7)(24" O.C.)	EA	59
E575 1	BAHIA SOD (PASPALUM NOTATUM)	SY	5450
E575 1 4	ST. AUGUSTINE SOD	SY	3400
	ROOT BARRIER (24" DEEPROOT)	LF	145
	FLORIMULCH	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, SLEEVES, PANELS, AND ALL ELSE NECESSARY FOR A COMPLETE INSTALLATION AND SYSTEM.

ITEM 580 5 13, 580 4 235, 580 4 345 INCLUDES ROOT BARRIER AND FLORMULCH.

SUMMARY OF PAY ITEMS

NO.	ITEM	UNIT	QUANTITY
	BRIDGE		
0101 1	MOBILIZATION	LS	1
	BRIDGE REMOVAL		
0101 3	DEMOLITION & REMOVAL OF EXISTING BARRIERS, RAILINGS, SLAB, AND 4 WING WALLS AS REQUIRED AND	LS	1
	DEBRIS PILES AND GUARDRAILS		
	SUPERSTRUCTURE		
450 1 2	PRESTRESSED BEAMS TYPE II	LF	778.13
400 2 4	CLASS II CONC. FOR BRIDGE DECK AND DIAPRHAGM	CY	144
415 1 4	REINFORCING STEEL FOR BRIDGE DECK AND DIAPRHAGM	LB	44,548
400 148 10	CONC. TRAFFIC RAILING BARRIER - 32" VERTICAL SHAPE	LF	348.67
460 70 2	ALUMINUM PEDESTRIAN BARRIER RAILING	LF	348.67
440 7	BRIDGE FLOOR GROOVING	SY	523
400 147	COMPOSITE NEOPRENE PADS	CF	1.64
	SUBSTRUCTURE		
400 2 4	CLASS II CONC. FOR PILE CAPS, PEDESTALS AND SEISMIC BLOCKS	CY	60
415 1 5	REINFORCING STEEL FOR PILE CAPS, PEDESTALS AND SEISMIC BLOCKS	LB	16,156
455 3 2	PRESTRESSED PILES 2.00 18"x 65 FT TEST PILE	LF	130
455 3 2	PRESTRESSED PILES 11.00 18"x 50 FT END BENTS	LF	550
455 3 2	PRESTRESSED PILES 2.00 18"x 50 FT WING BENTS	LF	100
455 3 2	PRESTRESSED PILES 13.00 18"x 50 FT INTERMEDIATE BENTS INCLUDING DEBRIS PILES	LF	620
455 137	P.D.A. TESTING	EA	2
	SIDEWALKS AND MEDIAN		
400 2 4	CLASS II CONC. FOR SIDEWALKS	CY	98
415 1 4	REINFORCING STEEL FOR SIDEWALKS	LB	2,824
	APPROACH SLAB EXTENSIONS		
400 2 10	CLASS II CONC. FOR APPROACH SLABS	CY	62
415 1 9	REINFORCING STEEL FOR APPROACH SLABS	LB	12,170
530 4 6	(REVETMENT MAT)(CANAL EXCAVATION AS REQUIRED SHALL BE INCLUDED) INCLUDING REMOVAL OF	SF	2,934
	EXISTING TO PLACE NEW END BENTS		
715 2117	4" PVC CONDUIT	LF	1,400

ROBERT W. LAWSON LICENSE No. 26640 JAN 18 2019 STATE OF FLORIDA PROFESSIONAL ENGINEER

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Boynton Beach, Florida 33426 www.arcadis-us.com
GB3170 / LC26000X EB7917

No.	Revision:	By:	Date:

Department of Public Works
Engineering Division

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

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

Sheet: 13A
Of: 99
Project No.
LNW# WP1027

GENERAL NOTES

1. PRIOR TO COMMENCEMENT OF ANY EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH FLORIDA STATUTE 553.851 FOR THE PROTECTION OF UNDERGROUND GAS PIPELINES.
2. ALL GRADES SHOWN ARE FINISHED GRADES, UNLESS OTHERWISE NOTED.
3. STATIONING AND OFFSETS REFER TO THE CENTERLINE OF CONSTRUCTION, UNLESS OTHERWISE NOTED.
4. ALL RETURN RADII 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 REFERENCE IT 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 FDOT STANDARD INDEXES 100, 101, 102, 103, 104 AND 105 WHERE NECESSARY IN ORDER TO COMPLY WITH ALL STATE, LOCAL AND NPDES WATER QUALITY STANDARDS.
12. CONTRACTOR SHALL MAINTAIN TRAFFIC AT ALL TIMES DURING CONSTRUCTION IN ACCORDANCE WITH FDOT INDEX NOS. 600 THRU 660 AND SHALL PROVIDE ALL BARRICADES, LIGHTING, SIGNAGE AND FLAGMEN AS NECESSARY TO PROVIDE FOR THE SAFETY OF THE PUBLIC IN THE AREA OF THE WORK. MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH CURRENT FDOT ROADWAY & TRAFFIC DESIGN STANDARDS AND 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 VERIFY IF "OTHER" UTILITIES (NOT SHOWN ON THE PLANS) EXIST 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 FDOT 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 D.E.P., INDIAN RIVER COUNTY H.R.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 "ONE CALL" (1-800-432-4770) 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	ARJUNA WERAGODA, PE	772-226-1821
AT&T BROADBAND	CRAIG 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	MARK 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.	TODD 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 NOTIFIED: 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 COMPACTION 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 EYEBOLT AND CHAIN IN ACCORDANCE WITH FDOT 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 MAILBOXES CURRENTLY SERVED FROM THE ROADWAY BEFORE CONSTRUCTION, MUST BE SERVED IN THE SAME MANNER AFTER CONSTRUCTION. CONFORM WITH FDOT STANDARD INDEX 532. COST OF THIS ITEM SHALL BE INCLUDED UNDER THE CONTRACT PRICE FOR CLEARING AND GRUBBING. CONTRACTOR SHALL CONTACT THE US POSTAL SERVICE MR. DAVE SAVILLE 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 FDOT / 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 PREVENT ANY UNNECESSARY DAMAGE TO THE SIGNS. SIGNS WHICH ARE DAMAGED BEYOND USE, AS DETERMINED BY THE ENGINEER, SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
27. MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH CURRENT FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS AND SPECIFICATIONS AND THE 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 CONFORMS WITH FDOT SPECIFICATIONS AND FDOT STANDARD INDEX 505.
30. ANY BORROW MATERIAL REQUIRED FOR THE PROJECT SHALL BE FURNISHED BY THE CONTRACTOR FROM AREAS PROVIDED BY HIM.
31. ALL MUCK AND PLASTIC MATERIAL WITHIN THE LIMITS OF CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH FDOT 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 SHALL BE STOCKPILED WITHIN THE R/W FOR REMOVAL BY COUNTY FORCES. CONTACT IRC ROAD & BRIDGE DIVISION AT (561)233-3956.
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-DEWATERING, 2-LDENTIFIED AREAS OF CONTAMINATION, 3-UNIDENTIFIED AREAS OF CONTAMINATION, 4-BRIDGE ASBESTOS):

1. THERE IS IDENTIFIED GROUNDWATER CONTAMINATION ON PROPERTIES ADJACENT TO THE FDOT RIGHT-OF-WAY (ROW). IF DEWATERING METHODS WILL BE EMPLOYED IN THE AREAS LISTED BELOW, CONTAMINATION IMPACTS MAY OCCUR.

   ? APPROXIMATELY STA 116+00 TO STA 133+40
   ? APPROXIMATELY STA 2636+00 TO STA 2650+00

   THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 2-WEEKS NOTIFICATION TO THE INDIAN RIVER COUNTY ENGINEER WHEN APPROACHING THE ABOVE REFERENCED AREAS.

   THE CONTRACTOR SHALL NOTIFY THE INDIAN RIVER COUNTY ENGINEER OR A DESIGNATED QUALIFIED ENVIRONMENTAL INDIVIDUAL/CONSULTANT FOR TECHNICAL ASSISTANCE BEFORE APPLYING FOR A DEWATERING PERMIT FROM ANY ENVIRONMENTAL REGULATORY AGENCY TO AVOID POTENTIAL CONTAMINATION PLUME EXACERBATION AND DETERMINE PROPER GROUNDWATER MANAGEMENT ASSOCIATED WITH THE ABOVE REFERENCED SITES.

   A COORDINATION MEETING BETWEEN THE INDIAN RIVER COUNTY ENGINEER OR A DESIGNATED QUALIFIED ENVIRONMENTAL INDIVIDUAL/CONSULTANT AND THE CONTRACTOR SHALL BE HELD PRIOR TO THE START OF CONSTRUCTION TO COORDINATE ACTIVITIES WITHIN THE ABOVE MENTIONED AREAS.

2. THERE IS IDENTIFIED 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:

   OAPPROXIMATELY STATION (STA) 127+60 LT TO STA 128+60 LT (MARKS MOBILE'S PLUME - NW CORNER)
   O APPROXIMATELY STATION (STA) 2643+20 TO STA 2646+60 RT (YOUNG'S MARKET'S AND VERO BEACH DRY CLEANERS PLUMES - SE CORNER)

   OAPPROXIMATELY STATION (STA) 2640+40 TO STA 2641+20 RT (TOM'S MOBILE'S PLUME - SW CORNER)

   THE INDIAN RIVER COUNTY ENGINEER WILL HAVE A CONTAMINATION ASSESSMENT AND REMEDIATION (CAR) CONTRACTOR WORKING UNDER A SEPARATE CONTRACT TO PERFORM MONITORING DURING CONSTRUCTION ACTIVITIES IN THESE AREAS. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 2-WEEKS NOTIFICATION TO THE INDIAN RIVER COUNTY ENGINEER WHEN APPROACHING THE ABOVE REFERENCED AREA(S).

   A COORDINATION MEETING BETWEEN THE INDIAN RIVER COUNTY ENGINEER OR A DESIGNATED QUALIFIED ENVIRONMENTAL INDIVIDUAL/CONSULTANT AND THE CONTRACTOR SHALL BE HELD PRIOR TO THE START OF CONSTRUCTION TO COORDINATE ACTIVITIES WITHIN THE ABOVE MENTIONED AREAS.

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

   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 STAFFED WITH FLORIDA LICENSED TECHNICAL PROFESSIONALS (GEOLOGISTS AND ENGINEERS) WHO WILL BE INVOLVED WITH THE PROJECT AND KNOWLEDGEABLE OF THE WORK ACTIVITIES CONDUCTED WITHIN THE IDENTIFIED CONTAMINATED AREAS AND WHO WOULD SIGN AND SEAL PROJECT REPORTS AS REQUIRED FOR SUBMITTAL TO THE APPROPRIATE ENVIRONMENTAL REGULATORY AGENCIES.

   THE INDIAN RIVER COUNTY ENGINEER WILL IMMEDIATELY NOTIFY THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) DISTRICT VI CONTAMINATION IMPACT COORDINATOR (DCIC) 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 PROFILES, MANIFESTS AND/OR DISPOSAL RECEIPTS FOR THE HANDLING OF ALL CONTAMINATED MEDIA INCLUDING BUT NOT LIMITED TO GROUND WATER, WASTE WATER, SOILS, SOLID WASTES, SLUDGE, HAZARDOUS WASTES, AIR MONITORING RECORDS AND SAMPLE RESULTS FOR ALL MATERIALS TESTED AND ANALYZED TO THE INDIAN RIVER COUNTY ENGINEER AND THE FDOT DCIC.

1. PRIOR TO INITIATING ANY BRIDGE MODIFICATION, REHABILITATION OR DEMOLITION ACTIVITY ON BRIDGE #884056, THE CONSTRUCTION CONTRACTOR SHALL SUBMIT A NOTICE OF ASBESTOS RENOVATION OR DEMOLITION [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.

ROBERT W. WILSON No. 26640 PROFESSIONAL ENGINEER STATE OF FLORIDA DEC 17 2016

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

Sheet: 14
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SUMMARY OF DRAINAGE STRUCTURES

STR. NO.	INDEX NO.	STA.	SIDE	TYPE	SIZE	PIPE									CURB INLETS														DBI					MANHOLES							END WALL	CLASS I CONC.	CLASS I CONC.	REMARKS
						15"	18"	24"	30"	36"	42"	48"	18" FD	48x76	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	P-X <10	P-X >10	P-7 <10	P-7 PART.	J-7 <10	P-8 <10	P-8 PART.	J-8 >10	ADJ TOP	42"	C.Y.	C.Y.	
S-24	200.201.205.211	110+25.21	31 RT	INLET,PIPE	18"		64													1																					
S-23	200.201.205.211	110+25.21	33 LT	INLET, PIPE	18"		205																						1												
S-25	200.201.205.211	112+30	31 RT	INLET, PIPE	18"		64															1																			
S-26	200.201.205.211	112+30	31 LT	INLET, PIPE	24"			261																					1												
S-27	200.201.205.211	114+91	31 RT	INLET,PIPE	18"		71												1																						
S-28	200.201.205.211	114+91	40 LT	INLET, PIPE	36"					129																			1												
S-29	200.201.205.211	116+20	43.18 LT	INLET, PIPE	48"							85									1																				
S-201A	200.201.205.211	125+42	41.5 RT	INLET,PIPE	18"		10																			1															
S-201	200.201.205.211	125+42	31 RT	INLET,PIPE	18"		95												1																						
S-202	200.201.205.211	125+38	72 LT	INLET,PIPE	18"		10															1																			
S-203	200. 201. 205	125+38.3	63 LT	MH, PIPE	18"		195																											1							
S-204	200.201.205.211	123+23	31 RT	INLET,PIPE	18"		95															1																			
S-205	200.201.205.211	123+43	61 LT	INLET,PIPE	24"			263														1																			
S-206	200.201.205.211	120+80	23.11 RT	INLET, PIPE	18"		83												1																						
S-207	200. 201. 205.	120+80	56.89 RT	INLET, PIPE	24"			155											1																						
S-208	200.201.205.211	119+44	26.14 RT	INLET,PIPE	18"		85												1																						
S-209	200.201.205.211	119+40	53.78 LT	INLET,PIPE	36"					305									1		1																				
S-01A	200.201.205.210	2643+86	47.52 LT	INLET, PIPE	18"		55								1																									
S-02	200.201.205	127+35.09	44.14 RT	MH, PIPE	18"		103																											1						
S-03	200.201.205.211	128+37	33.75 RT	INLET,PIPE	18"		50																																	
S-04	200.201.205.211	129+00	68.56 LT	INLET, PIPE	18"		78												1																						
S-05	200.201.205.211	128+86	22.33 RT	INLET,PIPE	18"		17												1																						
S-06	200.201.205	128+89.66	7.13 RT	MANHOLE																																			1			CORE DRILL & CONNECT
SHEET TOTAL						0	1280	679	0	434	0	85	0	0	1	0	0	0	8	1	1	1	4	0	1	0	1	1	0	0	1	1	0	0	1	0	0	0		
GRAND TOTAL																																									

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NO.	REVISION.	BY.	DATE.

INDIAN RIVER COUNTY FLORIDA
Department of Public Works
Engineering Division

ROBERT W. LAWSON LICENSE NO. 26640 STATE OF FLORIDA PROFESSIONAL ENGINEER
DEC 12 2018

SCALE: 1"=40'
APPROVED:
DRAWN: B.F.
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_JOB_NO.

SUMMARY OF DRAINAGE STRUCTURES

STR. NO.	INDEX NO.	STA.	SIDE	TYPE	SIZE	PIPE									CURB INLETS														DBI					MANHOLES							END WALL	CLASS I CONC.	CLASS I CONC.	REMARKS
						15"	18"	24"	30"	36"	42"	48"	18" FD	48x76	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	P-X <10	P-X >10	P-7 <10	P-7 PART.	J-7 <10	P-8 <10	P-8 PART.	J-8 >10	ADJ TOP	42"	C.Y.	C.Y.	
S-301	200.201.205.211	132+90	42.92 LT	INLET, PIPE	18"		86												1																						
S-302	200.201.205.211	132+90	37.28 RT	INLET, PIPE	18"		208												1																						
S-301B	200.201.205.232	133+86	55 LT	INLET, PIPE	18"		83																			1														
S-301A	200.201.205.232	133+03	57 LT	INLET, PIPE	18"		18																			1														
S-303	200.201.205.211	135+00	27.16 LT	INLET,PIPE	18"		84																1																	
S-304	200.201.205.211	135+18.51	52.04 RT	INLET, PIPE	24"			222															1																	
S-305B	200.201.205.211	136+50	41 LT	INLET, PIPE	18"		80																			1														
S-305A	200.201.205.211	137+30	41 LT	INLET,PIPE	18"		82																			1														
S-305	200.201.205	137+40	51.7 RT	MH, PIPE	24"			242																									1							
S-305C	200.201.205.211	138+10	41 LT	INLET, PIPE	18"		80																			1														
S-306A	200.201.205.211	139+80.76	57.19 RT	INLET, PIPE	18"		22																1																	
S-306B	200.201.205.211	139+73	39 LT	INLET, PIPE	18"		77																			1														
S-306	200.201.205	139+82	36.70 RT	MH, PIPE	30"				198																											1				
S-307	200.201.205.211	141+80	37 LT	INLET, PIPE	18"		72																1																	
S-308	200.201.205.211	141+80	39.13 RT	INLET, PIPE	36"					216														1																
S-309	200.201.205	143+96	38 RT	MH, PIPE	42"						393																										1				
S-310	200.201.205.211	147+70	32 LT	INLET, PIPE	18"		71																1																	
S-314	200.201.205.210	147+70	32 RT	INLET, PIPE	36"					374								1																						
S-313	200.201.205	150+40	36.5 RT	MH, PIPE	18"		270																										1						
S-311	200.201.205.211	152+82	32 LT	INLET, PIPE	18"		71																1																	
S-312	200.201.205.210	152+82	32 RT	INLET, PIPE	18"		242											1																						
S-315	200.201.205	143+96	428 RT	MH, PIPE	42"						393																										1				
S-316	200.201.205	143+96	821 RT	MH, PIPE	42"						28																										1				
SHEET TOTAL						0	1546	464	198	590	814	0	0	0	0	0	1	1	2	0	0	0	6	1	0	0	0	0	0	0	0	0	2	0	4	0	0	0	0		
GRAND TOTAL																																									

GB310/LC26000269

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

EB 7917 / LB 7062

NO.	REVISION.	BY.	DATE.

Department of Public Works
Engineering Division

ROBERT W. LAWSON LICENSE No. 26640 STATE OF FLORIDA PROFESSIONAL ENGINEER

DEC 19 2018

SCALE: 1"=40'
APPROVED.
DRAWN: B.F.
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_JOB_NO.

SUMMARY OF DRAINAGE STRUCTURES

STR. NO.	INDEX NO.	STA.	SIDE	TYPE	SIZE	PIPE									CURB INLETS													DBI					MANHOLES							END WALL	CLASS I CONC.	CLASS I CONC.	REMARKS
						15"	18"	24"	30"	36"	42"	48"	18" FD	48x76	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	P-X <10	P-X >10	P-7 <10	P-7 PART.	J-7 <10	P-8 <10	P-8 PART.	J-8 >10	ADJ TOP	42"	C.Y.	C.Y.	
S-317	200.201.205.250	143+76	843 RT	ENDWALL	42"																																	1			
S-226	200.201.205	2636+52	83.6 RT	MANHOLE																																1					
S-225	200.201.205	2637+12.94	67.23 RT	MH. PIPE	36"					64																										1					
S-222	200.201.205.210	2638+46.67	13.1 LT	INLET. PIPE	15"	6											1																								
S-224	200.201.205.211	2638+47.5	71.99 RT	INLET. PIPE	36"					134														1																		
S-219	200.201.205	2639+26.45	81.13 RT	MH. PIPE	36					80																										1					
S-218	200.201.205.210	2640+00	81.38 RT	INLET. PIPE	18"		74												1																						
S-221	200.201.205.210	2640+00	16.3 LT	INLET. PIPE	18"		12						140			1																									
S-216	200.201.205.211	109+29	11 RT	INLET. PIPE	18"		25												1																						
S-217	200.201.205.211	109+29	11 LT	INLET. PIPE	36					28									1																						
S-220	200.201.205.210	2641+63.21	25.23 LT	INLET. PIPE	18"		12						150		1	1																									
S-20	200.201.205	2643+52.73	58.55 RT	MH. PIPE																																1					
S-19	200.201.205.210	2643+74.91	62.73 RT	INLET. PIPE	18"		29												1																						
S-18	200.201.205.210	2645+50	56.05 RT	INLET. PIPE	18"		170																	1																	
S-01	200.201.205.210	2645+60	49.5 LT	MH. PIPE	18"		12						168			1																									
S-01C	200.201.205.232	2646+53	67 LT	INLET. PIPE	18"		96																			1															
S-01D	200.201.205.232	2646+97	67 LT	INLET. PIPE	18"		44																			1															
S-13A	200.201.205	2647+12	43.5 LT	MH. PIPE	18"	12							136																			1										
S-17	200.201.205	2647+01.1	54.6 RT	MANHOLE																																1					
S-16	200.201.205	2648+65.30	54.66 RT	MANHOLE																																1					
S-13	200.201.205.210	2650+00	42.69 LT	INLET. PIPE	18"		16									1																									
S-14	200.201.205	2650+08.75	28.82 LT	MH. PIPE	18"																																1					
SHEET TOTAL						18	490	0	0	306	0	0	1106	0	1	4	1	0	4	0	0	0	0	1	1	0	0	0	1	1	1	0	0	3	2	1	0	0		
GRAND TOTAL																																									

GB310 / LC26000269

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

EB 7917 / LB 7062

NO.	REVISION.	BY.	DATE.

Department of Public Works
Engineering Division

ROBERT W. LAWSON
LICENSE
No. 26640
PROFESSIONAL ENGINEER
STATE OF FLORIDA
DEC 17 2018

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

SUMMARY OF DRAINAGE QUANTITIES FOR SR 60 & 43RD AVENUE

SHEET. 17
OF. 99

PROJECT NO. A1027
IRC_JOB_NO.

SUMMARY OF DRAINAGE STRUCTURES

STR. NO.	INDEX NO.	STA.	SIDE	TYPE	SIZE	PIPE									CURB INLETS												DBI					MANHOLES							END WALL	CLASS I CONC.	CLASS I CONC.	REMARKS
						15"	18"	24"	30"	36"	42"	48"	18" FD	48x76	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	P-X <10	P-X >10	P-7 <10	P-7 PART.	J-7 <10	P-8 <10	P-8 PART.	J-8 >10	ADJ TOP	42"	C.Y.	C.Y.	
S-15	200.201.205.211	2650+09	51.00 LT	INLET																					1															
S-11A	200.201.205.213	2650+73.87	50.86 LT	INLET, PIPE	18"		25																			1															
S-12	200.201.205	2650+96.63	29.89 LT	MH, PIPE	18"																													1						
S-11	200.201.205.210	2650+98.53	35.57 LT	INLET, PIPE	18"		11						286		1																									
S-10	200.201.205.211	2650+97.85	58.42 RT	INLET	54"																				1															
S-9	200.201.205	2652+45.18	53.84 RT	MANHOLE	54"																															1				
S-11B	200.201.205	2653+96.5	35.56 LT	MH, PIPE	18"		12																							1										
S-8	200.201.205	2654+13.14	55.65 RT	MANHOLE	54"																															1				
S-7	200.201.205	2656+25.9	55.15 RT	MANHOLE	54"																															1				
S-6	200.201.205	2657+04.7	25.47 LT	INLET,PIPE	18"																				1															CORE DRILL & CON.
S-6C	200.201.205	2657+30.14	29 LT	MH, PIPE	18"		23																							1										
S-6A	200.201.205.211	2657+30.14	56 LT	INLET, PIPE	18"		26												1																						
S-6B	200.201.205.211	2657+50.56	55.25 LT	INLET, PIPE	18"		23												1																						
S-5	200.201.205.211	2657+56.49	58.6 RT	INLET	54"																				1															
S-1C	200.201.205.210	2658+72	24 LT	INLET, PIPE	18"		6						96		1																									
S-1B	200.201.205.211	2659+38.16	24.16 LT	INLET	18"		66																		1															CONST CONTROL STR.
S-1A	200.201.205.211	2659+63.7	55.34 LT	INLET, PIPE	18"		25												1																						
S-4	200.201.205.211	2659+67	58.6 LT	INLET	48"																				1															
S-3A	200.201.205.211	2659+86.3	54.42 LT	INLET,PIPE	18"		25												1																						
S-3B	200.201.205	2659+88	30 LT	MANHOLE	18"																															1				
S-3	200.201.205	2660+09.8	24.29 LT	INLET, PIPE	18"																				1															
S-211	200.201.205	101+21	9.0 LT	MH, PIPE	36					201																							1							
S-213A	200.201.205.232	102+80	21.2 RT	INLET, PIPE	18"		40																			1															
SHEET TOTAL						0	282	0	0	201	0	0	382	0	2	0	0	0	4	0	0	0	0	0	0	7	2	0	0	0	0	2	0	1	0	1	0	4	0	0	0	
GRAND TOTAL																																									

GB310/ LC26000269

ARCADIS U.S., INC.
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EB 7917 / LB 7062

NO.	REVISION.	BY.	DATE.

Department of Public Works
Engineering Division

ROBERT W. LAWSON LICENSE No. 26640 STATE OF FLORIDA PROFESSIONAL ENGINEER
DEC 17 2018

SCALE: 1"=40'
APPROVED:
DRAWN: B.F.
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_JOB_NO.

SUMMARY OF DRAINAGE STRUCTURES

STR. NO.	INDEX NO.	STA.	SIDE	TYPE	SIZE	PIPE									CURB INLETS												DBI					MANHOLES							END WALL	CLASS I CONC.	CLASS I CONC.	REMARKS
						15"	18"	24"	30"	36"	42"	48"	18" FD	48x76	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	P-X <10	P-X >10	P-7 <10	P-7 PART.	J-7 <10	P-8 <10	P-8 PART.	J-8 >10	ADJ TOP	42"	C.Y.	C.Y.	
S-213B	200.201.205.232	103+20	24.36 RT	INLET, PIPE	18"		34																			1														
S-213C	200.201.205.232	103+23.7	28 LT	INLET, PIPE	18"		18																			1														
S-213	200.201.205	103+22.47	9.22 LT	MH, PIPE	36					178																									1					
S-213D	200.201.205	105+00	9.0 LT	MH, PIPE	36					203																						1								
S-214A	200.201.205.232	107+00	19.7 RT	INLET,PIPE	18"		28																			1														
S-214	200.201.205	107+02.7	9.0 LT	MH, PIPE	36					97																									1					
S-214B	200.201.205.232	107+03.55	19.0 LT	INLET,PIPE	18"		14																			1														
S-215A	200.201.205.232	107+99	19.35 RT	INLET,PIPE	18"		28																			1														
S-215B	200.201.205.232	107+99	22.0 LT	INLET,PIPE	18"		14																			1														
S-215	200.201.205	108+00	9 .0 LT	MH, PIPE	36					130																									1					
S-13B	200.201.205.210	2648+60	38.5 LT	INLET, PIPE	18"	12							128		1																										
		153+57	42 LT	PIPE,CONC EW48"X76"										36																									13.7	824	CONCRETE COLLAR
		153+57	31 RT	PIPE,CONC EW48"X76"										45																									13.7	824	CONCRETE COLLAR
S-1D	200.201.205.232	2658+50	34.1 LT	PIPE, INLET	18"		22																			1														
S-1E	200.201.205.232	2658+72	34.1 LT	PIPE, INLET	18"		5																			1														
CS-1	200.201.205	101+21	62 RT	MH, PIPE	36"					92																						1								CONTROL STRUCTURE
S-305D	200.201.232	137+40	65 RT	INLET,PIPE	18"		20																			1														
S-314A	200.201.232	147+70	46 RT	INLET,PIPE	18"		10																			1														
S-302A	200.201.232	133+10	48 RT	INLET,PIPE	18"		8																			1														
S-312A	200.201.232	152+82	45 RT	INLET,PIPE	18"		10																			1														
S-24A	200.201.205.232	110+25.21	43.5 LT	DBI,PIPE	18"		11																			1														
S-25A	200.201.205.232	112+30	43.5 LT	DBI,PIPE	18"		11																			1														
S-29A	200.201.205.232	116+95	69 LT	DBI,PIPE	18"		67																			1														
S-310A	200.201.205.282	147+11	32 LT	DBI,PIPE	18"		59																				1														
SHEET TOTAL						12	359	0	0	700	0	0	128	81	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	0	3	0	0	27.4	1648	
GRAND TOTAL						30	3957	1143	198	2231	814	85	1616	81	5	4	2	1	17	1	1	1	10	2	2	7	26	1	3	1	5	3	1	10	7	1	27.4	1648	

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EB 7917 / LB 7062

NO.	REVISION.	BY.	DATE.

Department of Public Works
Engineering Division

ROBERT W. LAWSON LICENSE No. 26640 STATE OF FLORIDA PROFESSIONAL ENGINEER
DEC 17 2018

SCALE 1"=40'
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DRAWN B.F.
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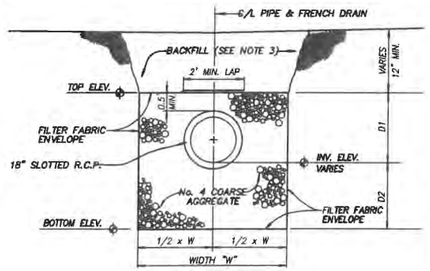
FIELD BOOK NO.

SUMMARY OF DRAINAGE QUANTITIES
FOR
SR 60 & 43RD AVENUE

SHEET. 19
OF. 99
PROJECT NO. A1027
IRC_JOB_NO.



CROSS SECTION

TYPICAL DETAIL – FRENCH DRAIN

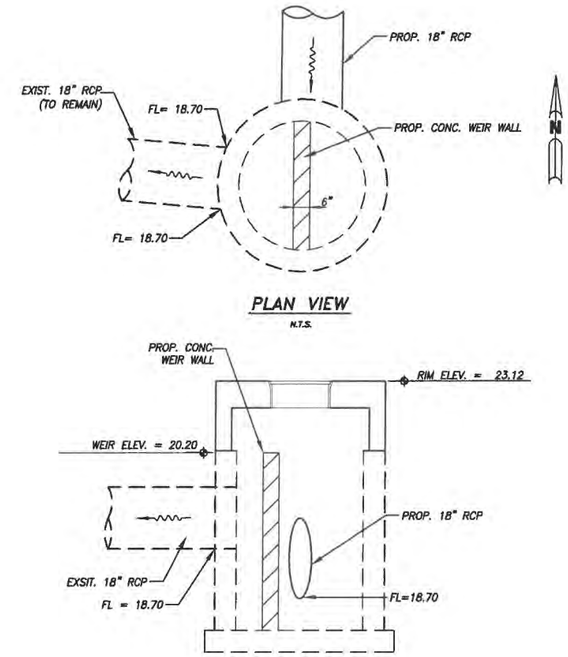
FRENCH DRAIN DATA			
	S-100 TO S-102	S-220 TO S-222	S-218A TO S-218
TOTAL LENGTH	360'	290'	92'
DEPTH – "D1"	2.75'	2.75'	2.75'
DEPTH – "D2"	0.75'	0.75'	0.75'
TRENCH WIDTH	6.00'	6.00'	6.00'
PIPE SIZE/MAT'L.	18" R.C.P.	18" R.C.P.	18" R.C.P.
PIPE INV. ELEV.	19.10'	18.75'	18.75'
TRENCH TOP ELEV.	21.85'	21.50'	21.50'
TRENCH BOT. ELEV.	18.35'	18.00'	18.00'

FRENCH DRAIN DATA			
	S-01 TO S-01A		S-13A TO S-13
TOTAL LENGTH	168'		264'
DEPTH – "D1"	2.75'		2.75'
DEPTH – "D2"	0.75'		0.75'
TRENCH WIDTH	6.00'		6.00'
PIPE SIZE/MAT'L.	18" R.C.P.		18" R.C.P.
PIPE INV. ELEV.	18.60'		18.25'
TRENCH TOP ELEV.	21.00'		21.00'
TRENCH BOT. ELEV.	17.50'		17.50'

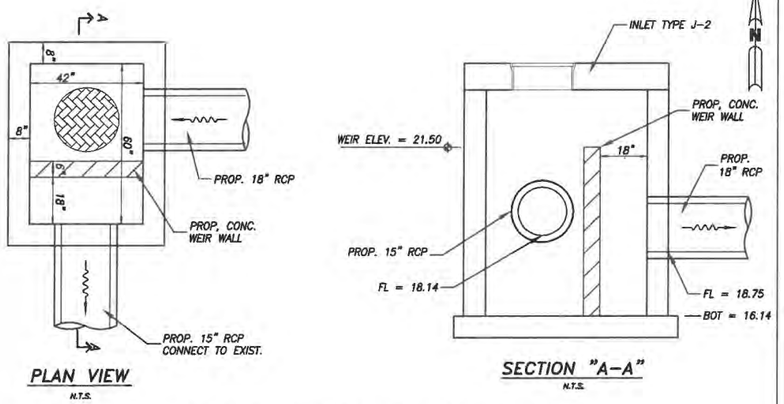
FRENCH DRAIN DATA			
	S-11A TO S-11	S-1C	
TOTAL LENGTH	286'	96'	
DEPTH – "D1"	2.75'	2.75'	
DEPTH – "D2"	0.75'	0.75'	
TRENCH WIDTH	6.00'	6.00'	
PIPE SIZE/MAT'L.	18" R.C.P.	18" R.C.P.	
PIPE INV. ELEV.	18.25'	18.25'	
TRENCH TOP ELEV.	21.00'	21.00'	
TRENCH BOT. ELEV.	17.50'	17.50'	

FRENCH DRAIN GENERAL NOTES:

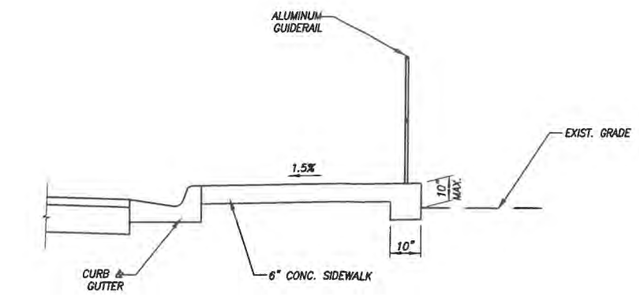
1) CONFORM WITH ALL REQUIREMENTS OF FDOT INDEX No. 285 EXCEPT AS SHOWN ON, AND/OR MODIFIED BY, THIS DETAIL AND THESE GENERAL NOTES.
2) ALL FILTER FABRIC JOINTS SHALL LAP A MINIMUM OF TWO (2') FEET.
3) PROVIDE CLEAN SAND BACKFILL ABOVE FRENCH DRAIN LOCATED UNDER GRASSED AREAS. PROVIDE SELECT BACKFILL IN ACCORDANCE w/ SECTION 443 OF THE FDOT SPECIFICATIONS ABOVE FRENCH DRAIN LOCATED UNDER ROADWAY PAVEMENT OR DRIVEWAY PAVEMENT.
4) 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).
5) ALL PIPES 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 FDOT INDEX NO. 280.



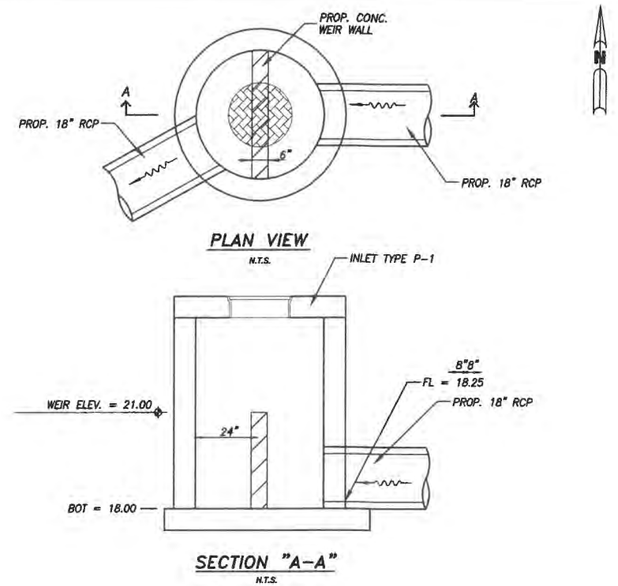
CONTROL STRUCTURE S-12 DETAIL



CONTROL STRUCTURE S-222 DETAIL



THICKENED EDGE SIDEWALK



CONTROL STRUCTURE S-01A DETAIL

ROBERT W. LAWSON LICENSE No. 26640 STATE OF FLORIDA PROFESSIONAL ENGINEER EB 27062

DEC 17 2018

ARCADIS
ARCADIS U.S., INC.
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GB310 / LC26000269

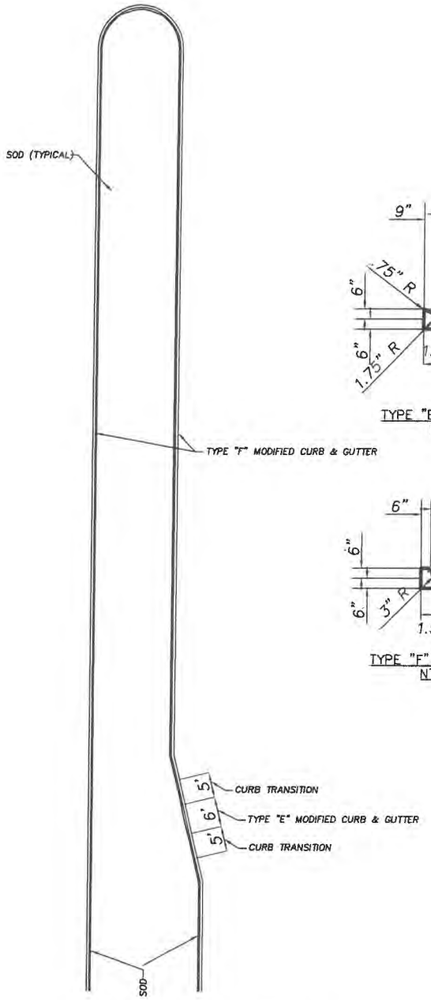
No.	Revision:	By:	Date:

Department of Public Works
Engineering Division

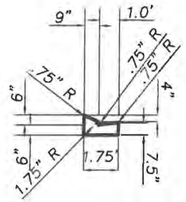
Scale:	N.T.S.
Approved:	HWD
Drawn:	FM
Checked:	HWD
Date:	6/2017
Field Book No:	

Project:
DETAILS
FOR
SR 60 & 43RD AVENUE

Sheet: 20
Of: 99
Project No.
LNW# WP1027



MODIFIED CURB FOR MOWER ACCESS



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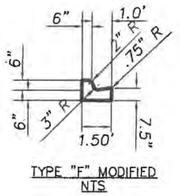
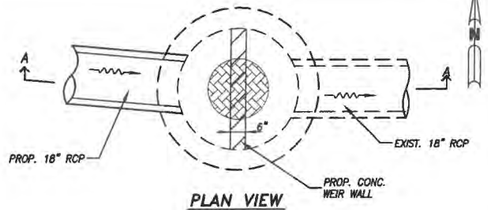
NTS



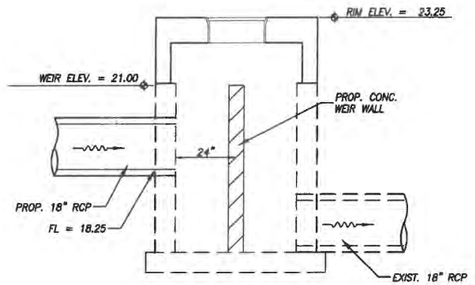
TYPE "F" MODIFIED
NTS

NOTES:

1. TO BE CONSTRUCTED AT ALL LEFT TURN LANES.

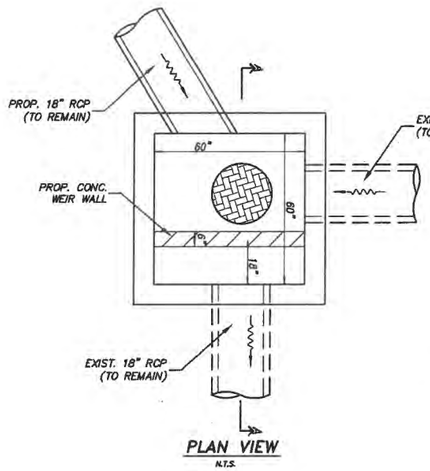


PLAN VIEW
N.T.S.

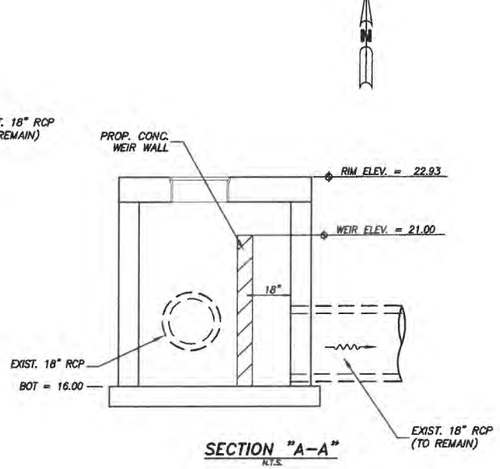


SECTION "A-A"
N.T.S.

CONTROL STRUCTURE S-1B DETAIL

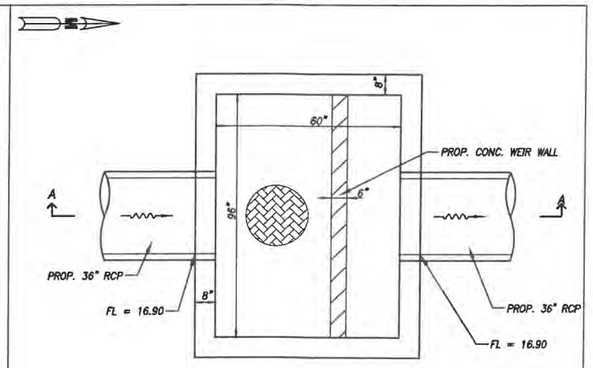


PLAN VIEW
N.T.S.

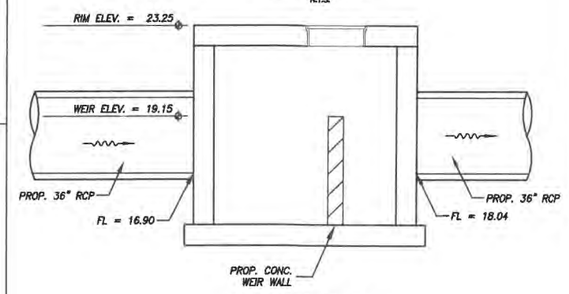


SECTION "A-A"
N.T.S.

CONTROL STRUCTURE S-14 DETAIL

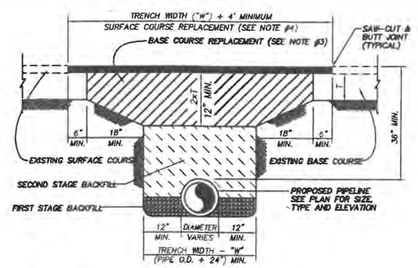


PLAN VIEW
N.T.S.



SECTION "A-A"
N.T.S.

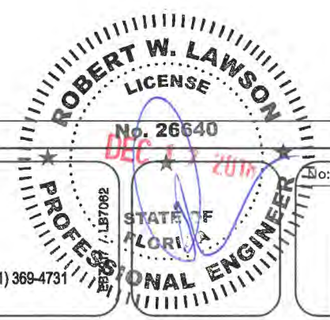
CONTROL STRUCTURE CS-1 DETAIL



NOTES:

1. ALL WORK AND MATERIALS SHALL CONFORM WITH F.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION, AND ALL CONDITIONS OF THE R/W PERMIT ISSUED BY THE F.D.O.T., COUNTY OR LOCAL ROAD AGENCY.
2. FIRST AND SECOND STAGE BACKFILL SHALL BE PLACED IN 6" MAX. LIFTS (COMPACTED THICKNESS) AND SHALL BE COMPACTED TO 100% OF THE AASHTO T-99 MAXIMUM DENSITY.
3. BASE REPLACEMENT OVER TRENCH SHALL BE TWICE THE THICKNESS OF THE EXISTING BASE COURSE. BASE COURSE REPLACEMENT MATERIAL SHALL BE LIMEROCK ONLY AND SHALL BE PLACED IN 2 OR 3 EQUAL LIFTS (8" MAX. COMPACTED THICKNESS) AND COMPACTED TO 98% OF THE AASHTO T-180 MAXIMUM DENSITY. NO EXISTING BASE MATERIAL SHALL BE USED FOR THE BASE COURSE REPLACEMENT. FINISHED BASE COURSE AND VERTICAL SURFACE OF SAW-CUTS SHALL RECEIVE PRIME & TACK COATS.
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



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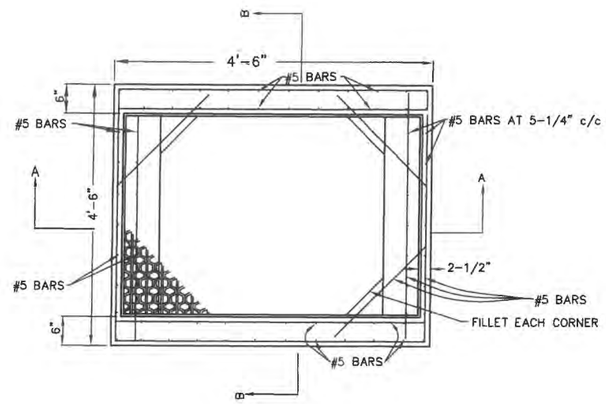
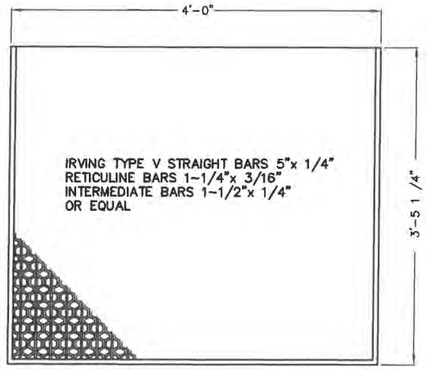
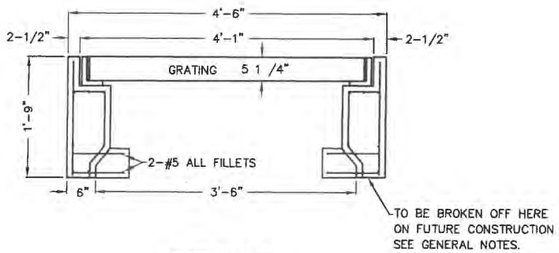


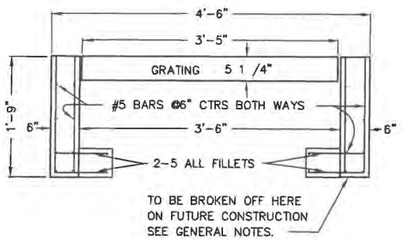
PLAN



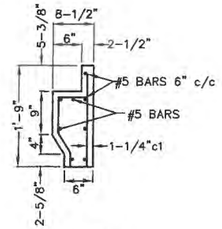
STEEL GRATING



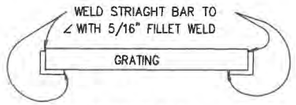
SECTION A-A



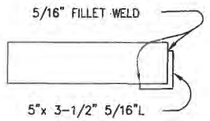
SECTION B-B



WALL SECTION
DETAIL



SECTION C-C



SECTION D-D

DITCH BOTTOM INLET TOP - TYPE X
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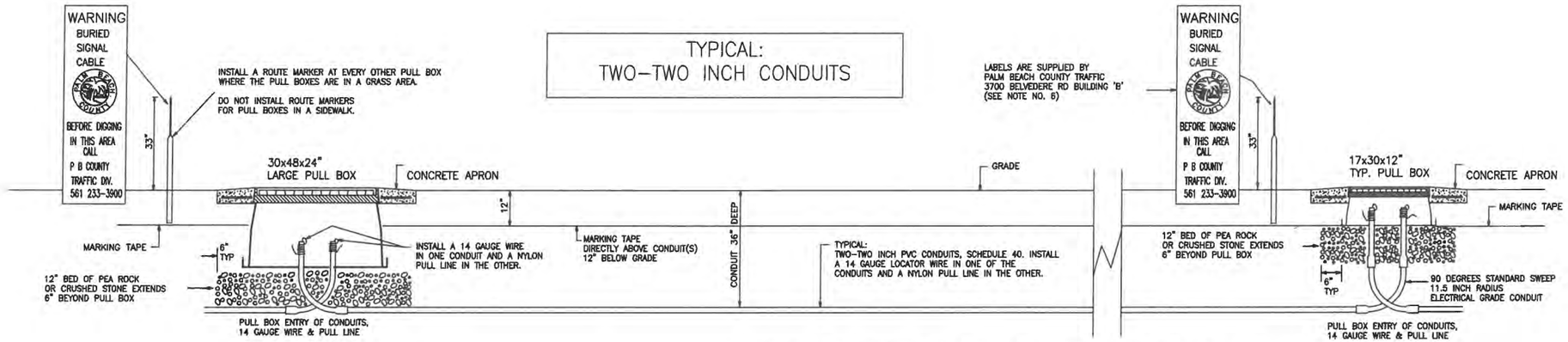
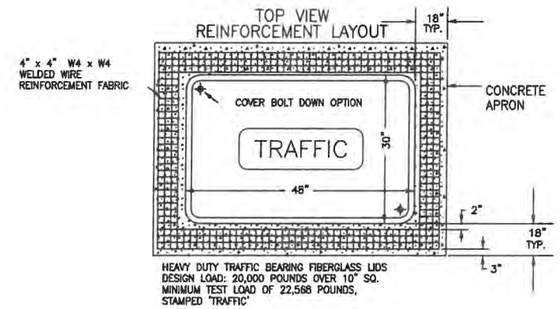
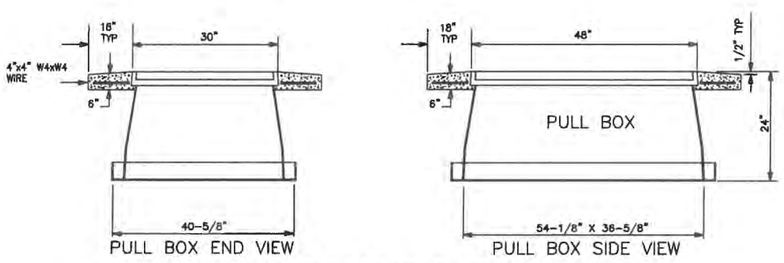
TYPICAL: TWO–TWO INCH CONDUITS





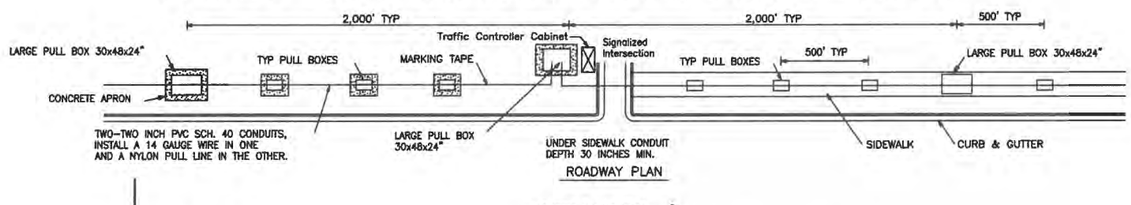


LARGE 30" X 48" X 24" DEEP PULL BOX

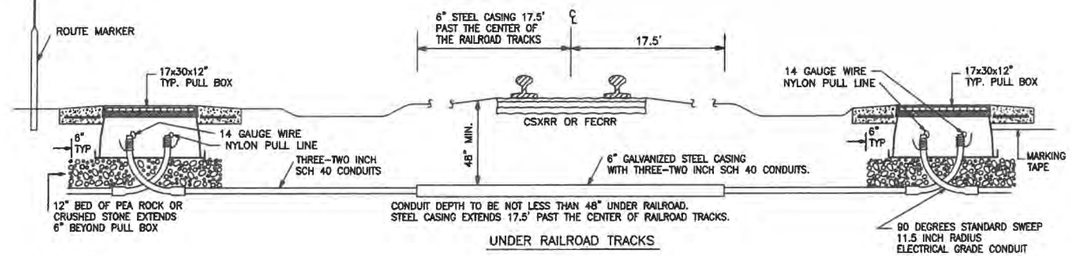
NOTES:

1. For applications not covered in this typical the contractor shall refer to the FDOT Standard Specifications for Road and Bridge Construction.
2. All pull boxes and lids shall be Heavy Duty Traffic Bearing Fiberglass Composit (Rated 20,000 pounds over ten inch square). Pull box lids shall be stamped 'TRAFFIC'.
3. Ends of conduit shall be sealed in accordance with Section 630 (Conduit) of the FDOT Standard Specifications for Road and Bridge Construction.
4. One run of conduit (between pull boxes) shall not contain more than 360 degrees of bend including pull box bends.
5. 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.
6. 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.

A TYPICAL PULL BOXE (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.



ROADWAY PLAN



UNDER RAILROAD TRACKS

NOTES:

7. 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.
8. 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 4"x4" W4xW4 welded wire reinforcement fabric. The cost of the apron is to be included in the cost of each furnish / install pull box.
9. Do not install a pull box within four feet of a public sidewalk curb ramp.

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DETAILS
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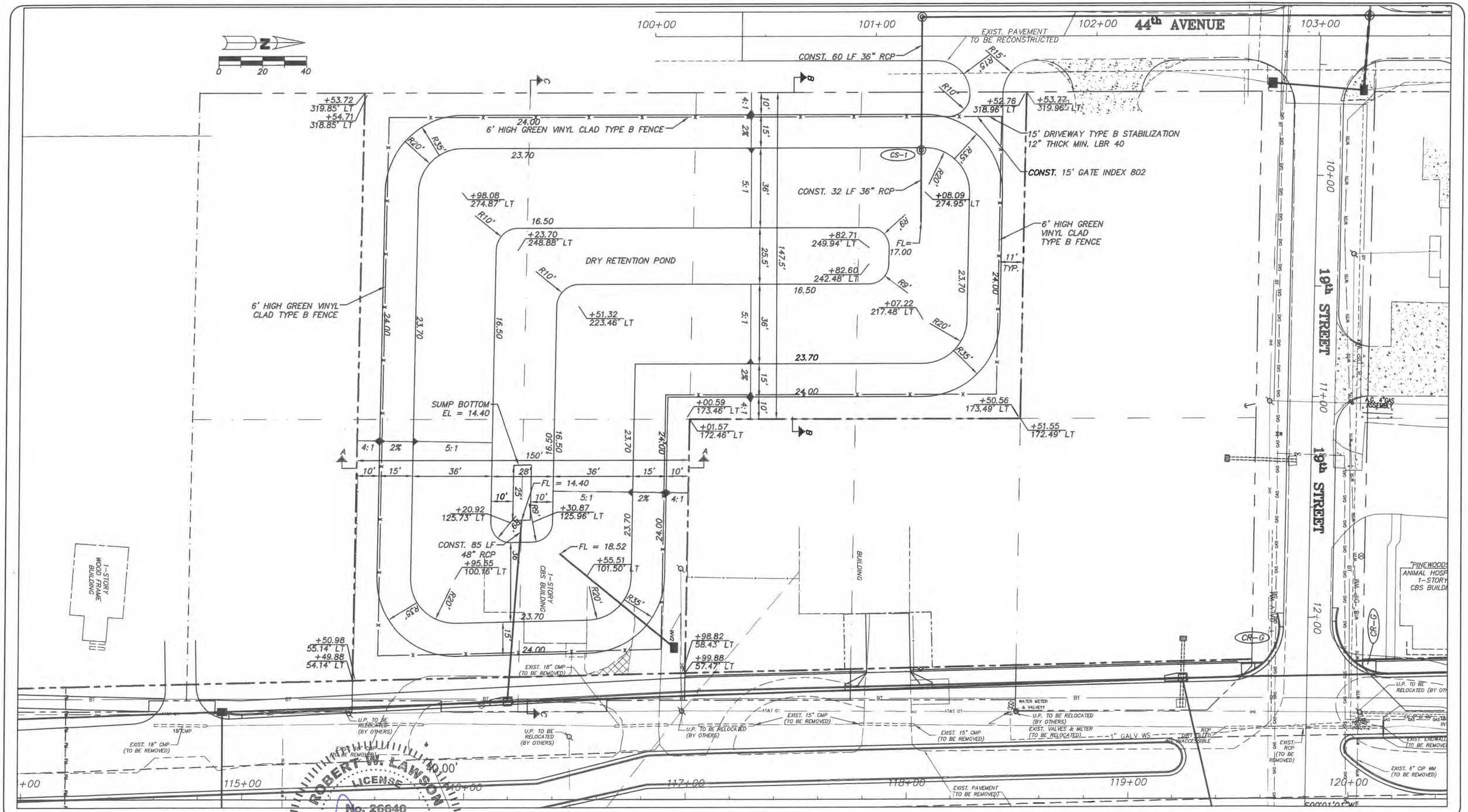

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PLAN SHEETS
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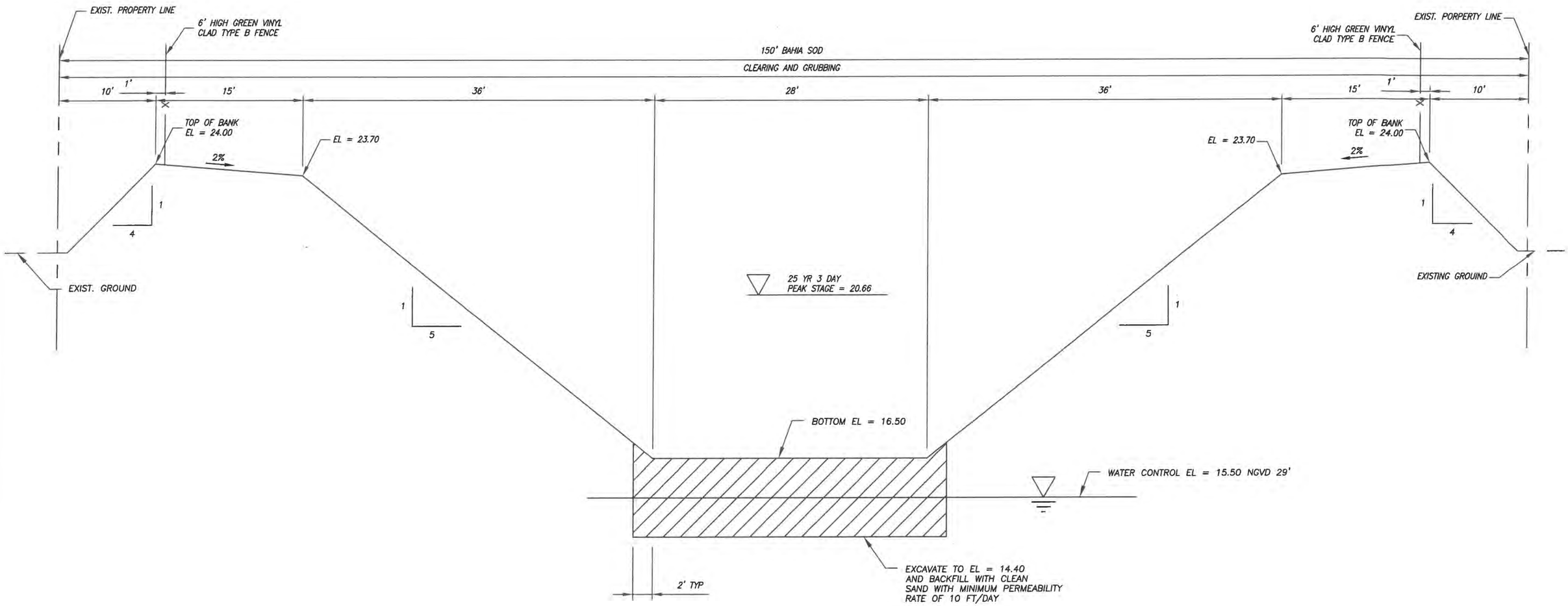

RETENTION AREA #1
SECTION A–A

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DETAILS
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SR 60 & 43RD AVENUE

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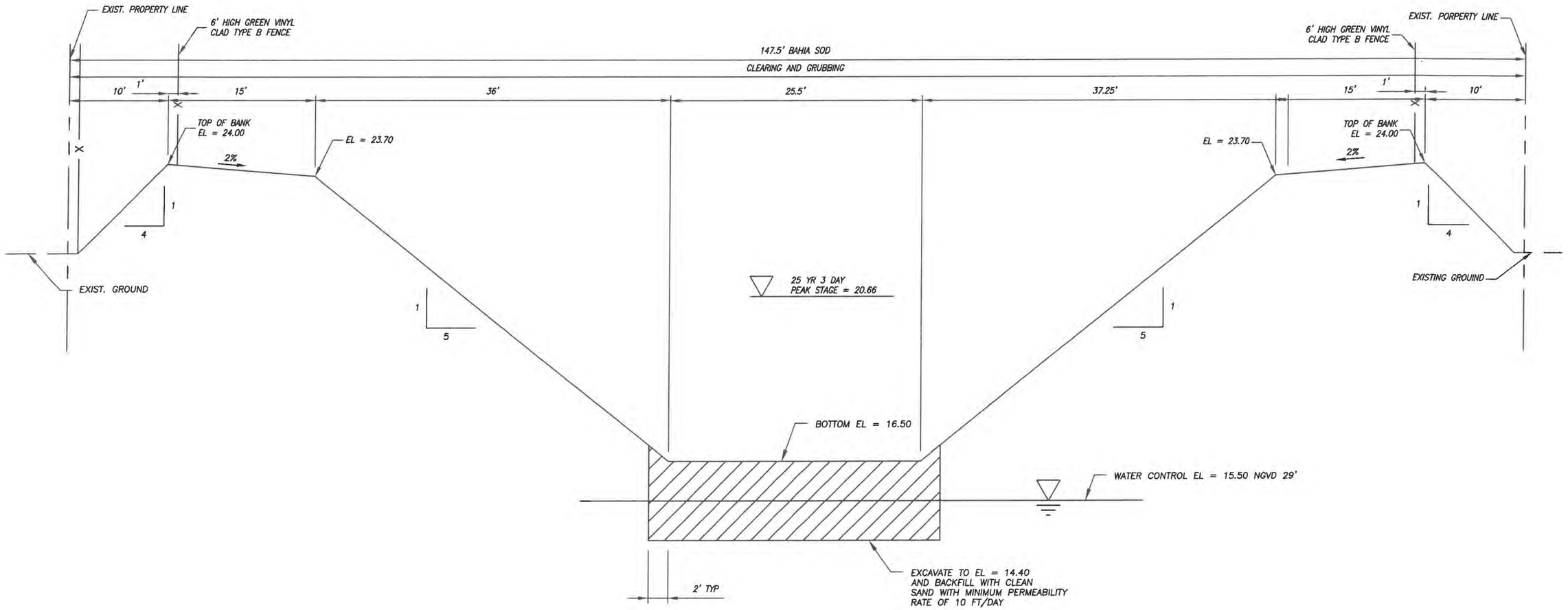

RETENTION AREA #1
SECTION B–B

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Project:
DETAILS
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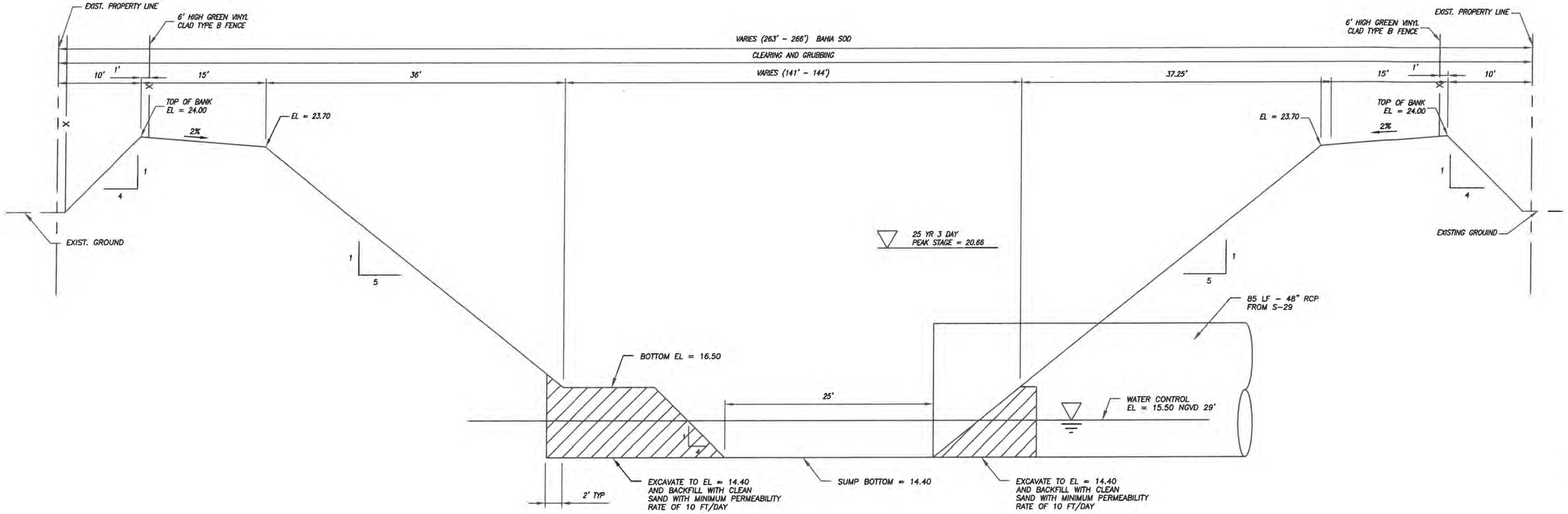

RETENTION AREA #1
SECTION C-C

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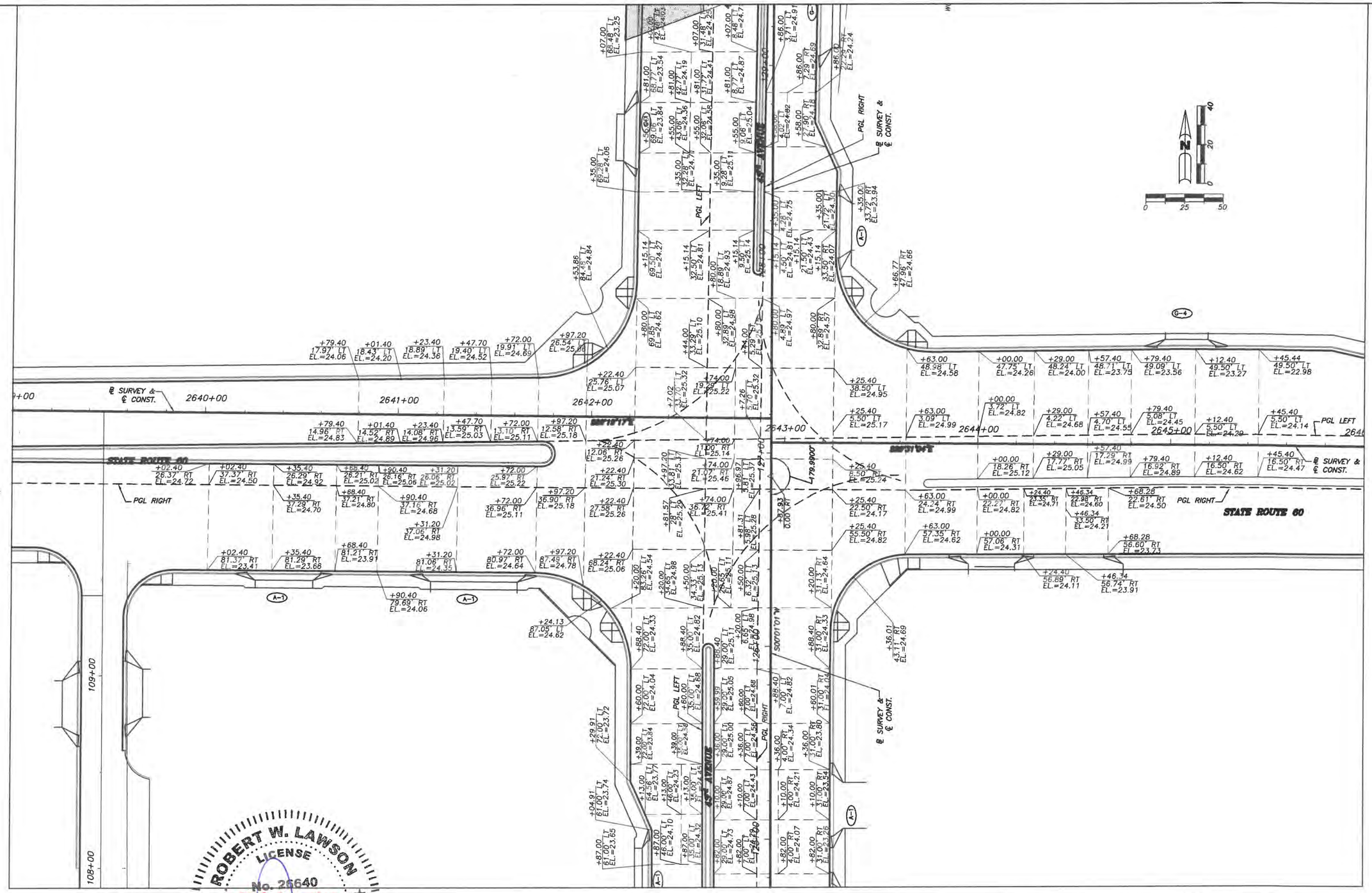

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Project:
INTERSECTION PLATEAU GRADING
FOR
SR 60 & 43RD AVENUE

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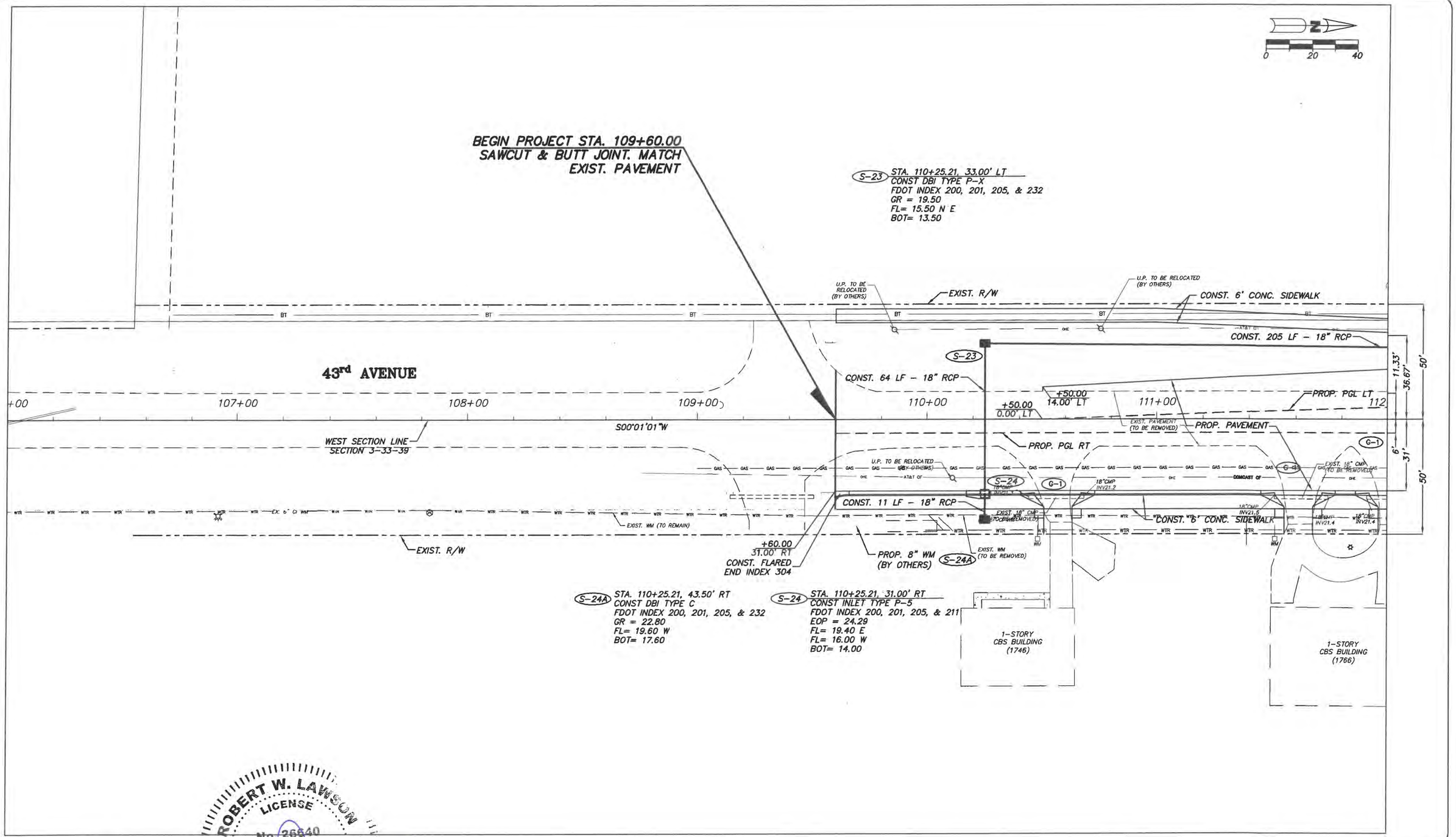

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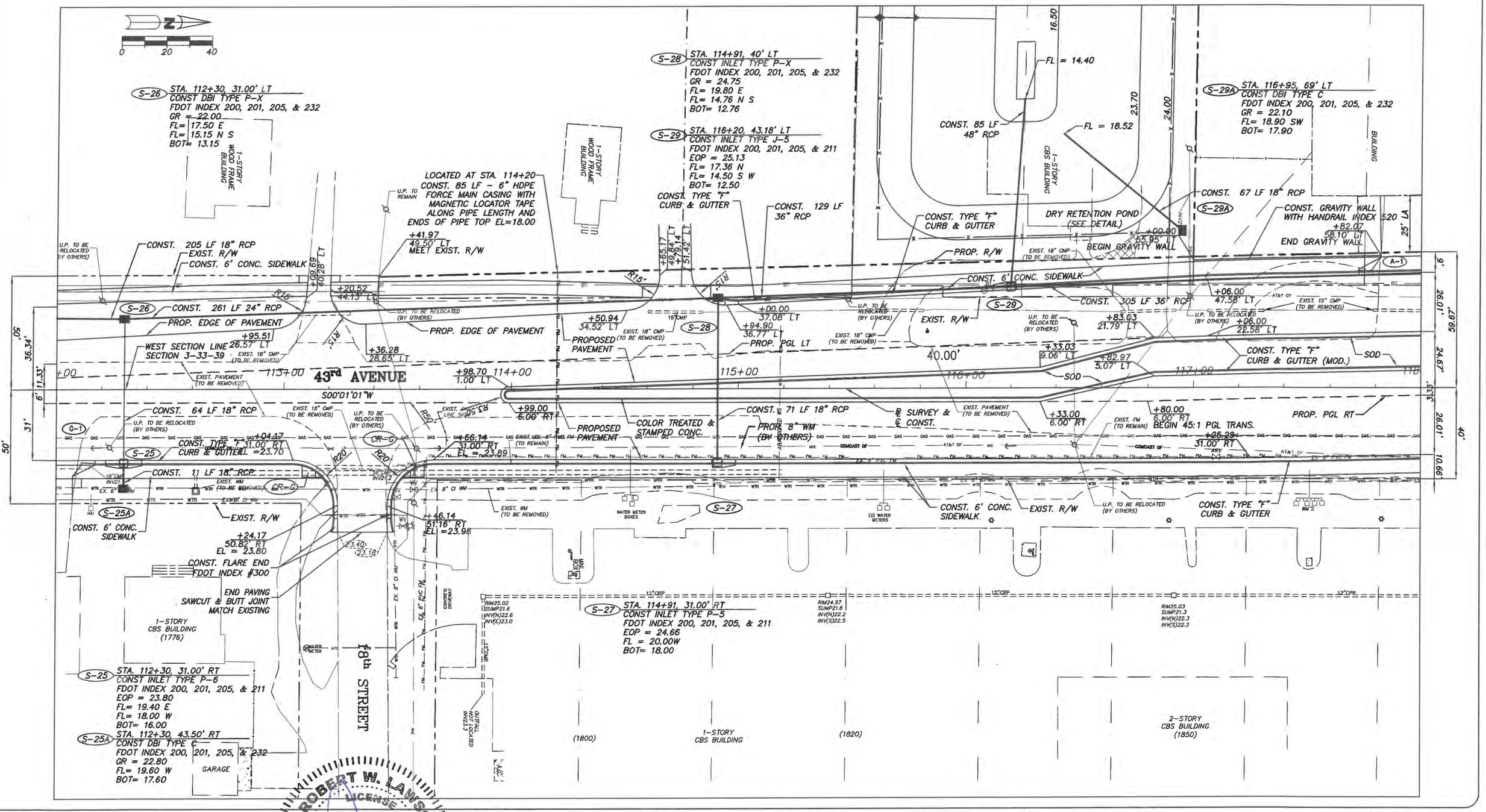

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MATCH SHEET NO. 42

MATCH SHEET NO. 42

19th STREET

43rd AVENUE

"CUMBERLAND FARMS" 1-STORY CBS BUILDING

"PINEWOODS II" ANIMAL HOSPITAL 1-STORY CBS BUILDING

"MERMAID CAR WASH" 1-STORY CBS BUILDING

"OUR PLACE BEAUTY SALON" 1-STORY CBS BUILDING (1946)

"SUBWAY" 1-STORY CBS BUILDING (1956)

(1968

CONST. FLARE END SECTION FDOT INDEX #300

CONST. GRAVITY WALL WITH HANDRAIL INDEX 520

CONST. TYPE "F" CURB & GUTTER

CONST. 6' CONC. SIDEWALK

CONST. 305 LF 36" RCP

CONST. 85 LF 18" RCP

CONST 156 LF 24" RCP

CONST. 77 LF GRAVITY WALL WITH ALUMINUM GUIDERAIL

CONST. THICKENED EDGE SIDEWALK AND 73 LF ALUMINUM GUIDERAIL

CONST. 263 LF 24" RCP

CONST. 83 LF 18" RCP

CONST. THICKENED EDGE SIDEWALK WITH ALUMINUM GUIDERAIL

CONST. TYPE "F" CURB & GUTTER

CONST. 195 LF 18" RCP

CONST. 95 LF 18" RCP

COLOR TREATED & STAMPED CONC. SEP.

CONST. TYPE "F" CURB & GUTTER (MOD.)

PROPOSED PAVEMENT

SOD

FILL EXIST. SWALE AS NEEDED FOR SIDEWALK CONSTRUCTION

EXIST. YARD DRAIN PIPING WITH PROP. R/W (TO BE REMOVED) (TYP.)

EXIST. CHAIN LINK FENCE (TO REMAIN UP TO PROP. R/W LINE)

EXIST. L.P. (TO BE REMOVED)

EXIST. INLETS (TO BE REMOVED)

EXIST. INLET & PIPE (TO BE REMOVED)

EXIST. R/W

PROP. R/W

PROP. PGL RT

EXIST. PAVEMENT (TO BE REMOVED)

EXIST. 15" CMP (TO BE REMOVED)

EXIST. VALVES & METER (TO BE RELOCATED)

EXIST. RCP (TO BE REMOVED)

EXIST. ENDWALLS (TO BE REMOVED)

EXIST. CIP WM (TO BE REMOVED)

EXIST. INLET (TO BE REMOVED)

EXIST. 18" CMP (TO BE REMOVED)

EXIST. 8" SAN (TO BE REMOVED)

EXIST. SANITARY SEWER & MH (TO BE REMOVED)

EXIST. 18" RCP (TO BE REMOVED)

EXIST. 3" PVC FM (TO BE REMOVED)

EXIST. 8" SAN (TO REMAIN)

EXIST. 6" SAN (TO REMAIN)

EXIST. WM (TO BE REMOVED)

EXIST. 8" FM (TO REMAIN)

EXIST. R/W

PROP. 8" WM (BY OTHERS)

U.P. TO BE RELOCATED (BY OTHERS)

U.P. TO BE RELOCATED (BY OTHERS)

AT&T DT

WATER METER & VALVE??

DIRT ELITE - INACCESSIBLE

CONST. 6' CONC. SIDEWALK

EXISTING VALVE & FIRE HYDRANT

SAW CUT AND MEET EXISTING PAVEMENT

43rd AVE. ℄ = STA. 119+83.50
19th ST. ℄ = STA. 12+82.29

WEST SECTION LINE SECTION 3-33-39

S00°01'01"W

172.49' LT

+14.31
11.00' RT
EL = 23.55

12+01.58
11.00' RT
EL= 23.88

12+04.43
11.00' LT
EL= 23.90

+56.51
63.14' LT
MEET EXIST. R/W

+50.00
62.17' LT
END GRAVITY WALL

+46.35
63.41' LT
EL=24.72

+01.93
58.58' LT
BEGIN GRAVITY WALL

+06.52
63.27' LT
MEET EXIST. R/W

+18.38
55.16' LT
EL= 24.40

+79.87
65.90' LT

+79.85
64.90' LT

+01.00
59.59' LT

+64.61
70.00' LT

+64.71
61.00' LT
EXIST. R/W

+18.08
27.29' LT
EL= 25.52

+02.38
29.16' LT

+98.35
18.85' LT

+18.46
10.30' LT
EL= 25.74

+45.00
26.33' LT
BEGIN SEPARATOR

+65.00
35.00' LT
END 45:1 PGL TRANS.

+65.07
29.00' LT

+65.00
7.00' LT
TRANS.

+65.00
19.00' RT
EL.=23.40

+46.63
26.08' RT
EL= 24.72

+41.36
2.03' LT

+45.00
2.11' LT

+23.77
24.36' RT
EL= 24.37

+67.08
46.04' RT

+04.22
44.04' RT

+15.00
31.00' RT
EL.=22.86

119+00

120+00

121+00

122+00

123+00

124

R80'

R20'

R25'

R6'

CR-G

S-209

S-207

S-205

S-208

S-206

S-204

59.67'

26.01'

24.67'

3.33'

40'

10.66'

9'

5'

3' LA

25' LA

70'

28'

7'

31'

12"CPP

RIM25.10
SUMP21.4
INV(N)22.5
INV(E)22.6
INV(S)22.4

12"CMP
INV23.1

RIM25.03
SUMP21.4
INV(E)22.4
INV(S)22.4

RIM25.07

RIM23.63
SUMP19.8
INV(N)20.5
INV(S)20.4

RIM24.08
SUMP20.5

RIM24.00
SUMP20.6

RIM23.59
SUMP17.8
INV(N)17.8
INV(S)20.4

RIM23.05
SUMP19.7
INV(E)20.7
INV(W)20.7

RIM22.83
SUMP17.6
INV(W)17.8

RIM23.46
SUMP19.1
INV20.4

RIM18.1
INV(N)18.1
INV(S)18.2
INV(W)20.9

12"CPP
INV21.14

6"PVC
INV20.7

INV21.3

INV21.1

DRAINAGE STRUCTURE NOTES

S-209 STA. 119+25.00, 53.01' LT
CONST INLET TYPE J-5
FDOT INDEX 200, 201, 205, & 211
EOP = 24.47
FL=21.60 (ME) (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, 205, & 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, 205, & 211
EOP = 23.89
FL= 18.20 (S, N)
FL= 19.77 (E)
BOT= 16.20

S-206 STA. 120+80, 23.11' RT
CONST INLET TYPE P-5
FDOT INDEX 200, 201, 205, & 211
EOP= 23.89
FL= 19.90 (W)
BOT= 17.90

S-205 STA. 123+43.00, 61.00' LT
CONST. INLET TYPE V
FDOT INDEX 200, 201, 205, & 221
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, 205, & 211
EOP= 22.62
FL= 18.60 (W)
BOT= 16.60

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PLAN SHEETS
FOR
SR 60 & 43RD AVENUE

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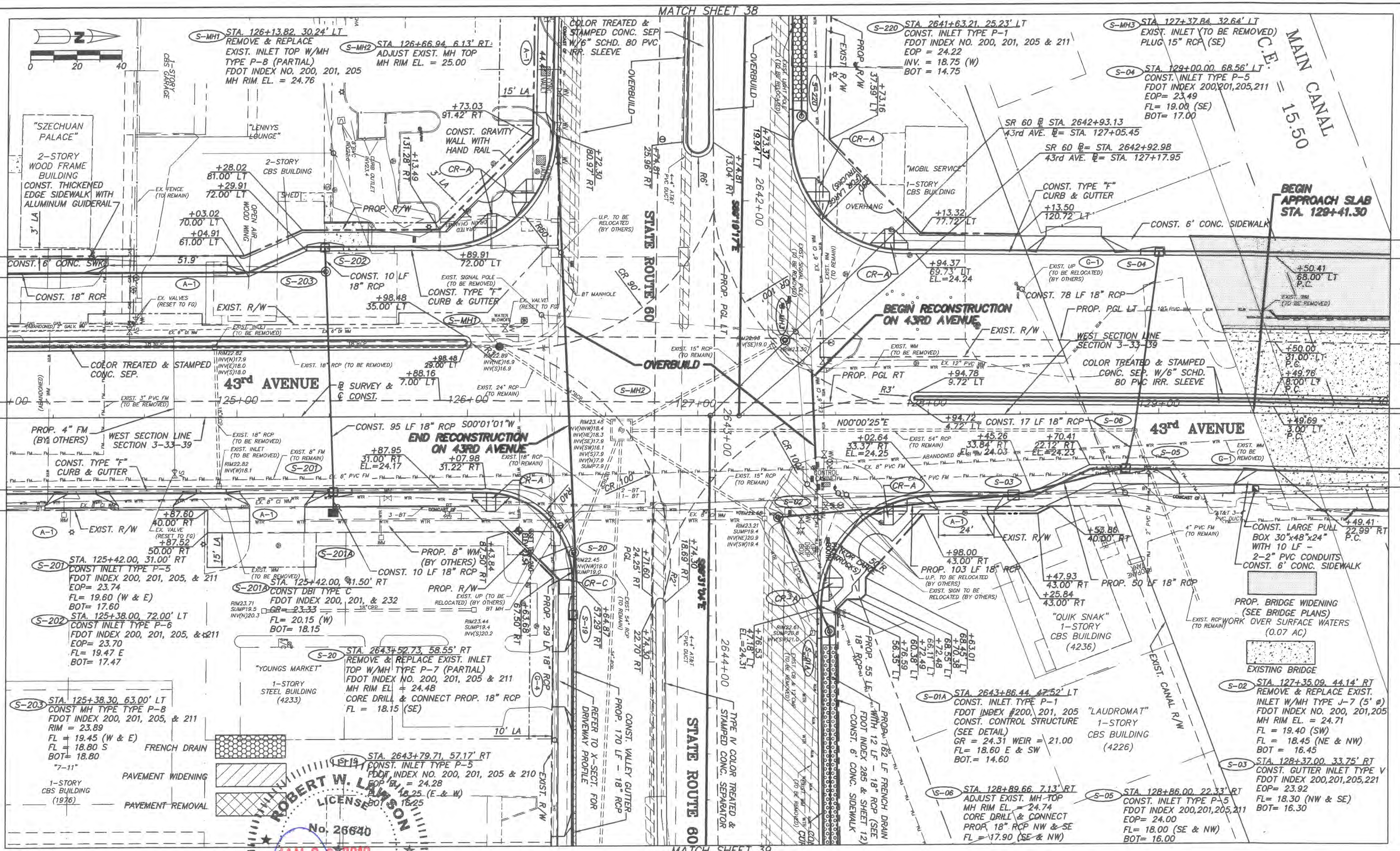

MATCH SHEET 38
MATCH SHEET 39
43rd AVENUE
STATE ROUTE 60
BEGIN RECONSTRUCTION ON 43RD AVENUE
END RECONSTRUCTION ON 43RD AVENUE
BEGIN APPROACH SLAB STA. 129+41.30
OVERBUILD
MAIN CANAL
C.E. = 15.50
S-MH1 STA. 126+13.82, 30.24' LT REMOVE & REPLACE EXIST. INLET TOP W/MH TYPE P-8 (PARTIAL) FDOT INDEX NO. 200, 201, 205 MH RIM EL. = 24.76
S-MH2 STA. 126+66.94, 6.13' RT ADJUST EXIST. MH TOP MH RIM EL. = 25.00
S-220 STA. 2641+63.21, 25.23' LT CONST. INLET TYPE P-1 FDOT INDEX NO. 200, 201, 205 & 211 EOP = 24.22 INV. = 18.75 (W) BOT = 14.75
S-MH3 STA. 127+37.84, 32.64' LT EXIST. INLET (TO BE REMOVED) PLUG 15" RCP (SE)
S-04 STA. 129+00.00, 68.56' LT CONST. INLET TYPE P-5 FDOT INDEX 200,201,205,211 EOP= 23.49 FL= 19.00 (SE) BOT= 17.00
SR 60 B STA. 2642+93.13 43rd AVE. B= STA. 127+05.45
SR 60 B= STA. 2642+92.98 43rd AVE. B= STA. 127+17.95
"SZECHUAN PALACE" 2-STORY WOOD FRAME BUILDING
"LENNYS LOUNGE"
"MOBIL SERVICE" 1-STORY CBS BUILDING
"QUIK SNAK" 1-STORY CBS BUILDING (4236)
"LAUDROMAT" 1-STORY CBS BUILDING (4226)
"YOUNGS MARKET" 1-STORY STEEL BUILDING (4233)
S-201 STA. 125+42.00, 31.00' RT CONST INLET TYPE P-5 FDOT INDEX 200, 201, 205, & 211 EOP= 23.74 FL= 19.60 (W & E) BOT= 17.60
S-201A STA. 125+42.00, 41.50' RT CONST DBI TYPE C FDOT INDEX 200, 201, & 232 GR= 23.33 FL= 20.15 (W) BOT= 18.15
S-202 STA. 125+38.00, 72.00' LT CONST INLET TYPE P-6 FDOT INDEX 200, 201, 205, & 211 EOP= 23.70 FL= 19.47 E BOT= 17.47
S-203 STA. 125+38.30, 63.00' LT CONST MH TYPE TYPE P-8 FDOT INDEX 200, 201, 205, & 211 RIM = 23.89 FL = 19.45 (W & E) FL = 18.80 S BOT= 18.80
S-20 STA. 2643+52.73, 58.55' RT REMOVE & REPLACE EXIST. INLET TOP W/MH TYPE P-7 (PARTIAL) FDOT INDEX NO. 200, 201, 205 & 211 MH RIM EL. = 24.48 CORE DRILL & CONNECT PROP. 18" RCP FL = 18.15 (SE)
S-19 STA. 2643+79.71, 57.17' RT CONST. INLET TYPE P-5 FDOT INDEX NO. 200, 201, 205 & 210 EOP = 24.28 FL = 18.25 (E & W) BOT = 16.25
S-01A STA. 2643+86.44, 47.52' LT CONST. INLET TYPE P-1 FDOT INDEX #200, 201, 205 CONST. CONTROL STRUCTURE (SEE DETAIL) GR = 24.31 WEIR = 21.00 FL= 18.60 E & SW BOT.= 14.60
S-06 STA. 128+89.66, 7.13' RT ADJUST EXIST. MH TOP MH RIM EL. = 24.74 CORE DRILL & CONNECT PROP. 18" RCP NW & SE FL = 17.90 (SE & NW)
S-05 STA. 128+86.00, 22.33' RT CONST. INLET TYPE P-5 FDOT INDEX 200,201,205,211 EOP= 24.00 FL= 18.00 (SE & NW) BOT= 16.00
S-02 STA. 127+35.09, 44.14' RT REMOVE & REPLACE EXIST. INLET W/MH TYPE J-7 (5' ø) FDOT INDEX NO. 200, 201,205 MH RIM EL. = 24.71 FL = 19.40 (SW) FL = 18.45 (NE & NW) BOT = 16.45
S-03 STA. 128+37.00, 33.75' RT CONST. GUTTER INLET TYPE V FDOT INDEX 200,201,205,221 EOP= 23.92 FL= 18.30 (NW & SE) BOT= 16.30
PROP. BRIDGE WIDENING (SEE BRIDGE PLANS) WORK OVER SURFACE WATERS (0.07 AC)
EXISTING BRIDGE
FRENCH DRAIN
PAVEMENT WIDENING
PAVEMENT REMOVAL
CONST. LARGE PULL BOX 30"x48"x24" WITH 10 LF – 2-2" PVC CONDUITS
CONST. 6' CONC. SIDEWALK
PROP. 162 LF FRENCH DRAIN WITH 12 LF – 18" RCP (SEE FDOT INDEX 285 & SHEET 12)
CONST. VALLEY GUTTER PROP. 170 LF – 18" RCP
REFER TO X-SECT. FOR DRIVEWAY PROFILE
TYPE IV COLOR TREATED & STAMPED CONC. SEPARATOR
WEST SECTION LINE SECTION 3-33-39

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INDIAN RIVER COUNTY FLORIDA

Department of Public Works
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PROP. BRIDGE WIDENING
(SEE BRIDGE PLANS)
WORK OVER SURFACE WATERS
(0.09 AC)

EXISTING BRIDGE

MAIN CANAL
C.E. = 15.50

END APPROACH SLAB
STA. 131+15.60

EXIST. CANAL R/W

S-301A STA. 133+03.00, 57.00' LT
CONST. DBI TYPE C
FDOT INDEX 200,201,232
GR= 24.00
FL= 20.50 (SE, N)
BOT= 18.50

S-301B STA. 133+86.00, 55.00' LT
CONST. DBI TYPE C
FDOT INDEX 200,201,232
GR= 24.10
FL= 20.60 (S)
BOT= 18.60

PGL 1
P.I.=131+49.74, 28.79' LT
Δ= 4°05'46"
D= 01°01'33"
T= 199.75'
L= 399.33'
R= 5585.64'
P.C.=129+50, 31.00' LT
P.T.=133+48.80, 12.31' LT

1-STORY WOOD FRAME BUILDING W/2' OVERHANG

1-STORY CBS BUILDING

1-STORY CBS DUPLEX

1-STORY WOOD FRAME BUILDING (2095)

21st PLACE

CONST. FLARED END SECTION FDOT INDEX #300

END PAVING SAWCUT & BUTT JOINT MATCH EXISTING

EXIST. LP (TO BE RELOCATED) (BY OTHERS)

U.P. TO BE RELOCATED (BY OTHERS)

U.P. TO BE RELOCATED (BY OTHERS)

EXIST. UP (TO BE RELOCATED) (BY OTHERS)

CONST. 18 LF-18" RCP

CONST. 83 LF-18" RCP

EXIST. R/W

10' TCE

CONST. 8' CONC. SIDEWALK

EXIST. 12" CMP (TO BE REMOVED)

CONST. 6' CONC. SIDEWALK

EXIST. 8" AC WM (ABANDONED)

EXIST. R/W

CONST. 86 LF-18" RCP

PROP. PGL LT

43rd AVENUE

CONST. 6' CURB & GUTTER TYPE E MOD.

EXIST. 12" CMP (TO BE REMOVED)

CONST. TYPE "F" CURB & GUTTER

℄ SURVEY & ℄ CONST.

EXIST. WM (TO BE REMOVED)

EXIST. GUARDRAIL (TO BE REMOVED)

COLOR TREATED & STAMPED CONC. SEP. W/6" SCHD. 80 PVC IRR. SLEEVE

CONC. BRIDGE DECK

EXIST. 18" CMP (TO BE REMOVED)

END SEPARATOR

DAMAGED

WEST SECTION LINE SECTION 3-33-39

N00°00'25"E

CONST. TYPE "F" CURB & GUTTER (MOD.)

CONST. 84 LF -18" RCP

SOD

EXIST. R/W

CONST. 208 LF -18" RCP

EX. ABANDONED 6" PVC FM TO BE REMOVED DURING CONSTRUCTION.

EX. ABANDONED 6" PVC FM TO BE REMOVED FROM STA. 133+95 TO STA. 140+30 DURING CONSTRUCTION.

PROP. PGL RT

CONST. TYPE "F" CURB & GUTTER

CONST. 6' CONC. SIDEWALK

CONST. 6' CURB & GUTTER TYPE E MOD.

CONST. 222 LF -24" RCP

EXIST. MANHOLE (TO BE REMOVED)

CONST. 8" LF 18" RCP

PROP. R/W

CONST. LARGE PULL BOX 30"x48"x24" WITH 10 LF - 2-2" PVC CONDUITS

OPTIC FIBER

COMCAST UNDERGROUND CABLE

AL STILLING WELL

SOUTH FACE OF CROSS BEAM ELEV. 21.6

EXIST. 30" CMP (TO BE REMOVED)

PGL 2
P.I.=131+48.42, 0.80' LT
Δ= 4°05'49"
D= 1°01'51"
T= 198.75'
L= 397.32'
R= 5557.64'
P.C.=129+49.69, 3.0' LT
P.C.C.=133+46.49, 15.60' RT

PGL 3
P.I.=135+99.71, 8.46' RT
Δ= 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

S-301 STA. 132+90.00, 42.92' LT
CONST. INLET TYPE P-5
FDOT INDEX 200,201,205,211
EOP= 24.09
FL= 20.20 (NW)
FL= 19.32 (E)
BOT= 17.32

S-302 STA. 133+10.00, 40.00' RT
CONST. INLET TYPE P-5
FDOT INDEX 200,201,205,211
EOP= 24.23
FL= 19.16 (N,E,W)
BOT= 17.16

S-302A STA. 133+10.00, 48.00' RT
CONST. DBI TYPE C
FDOT INDEX 200,201,232
GR= 23.50
FL= 19.30 (W)
BOT= 17.30

S-303 STA. 135+00.00, 27.16' LT
CONST. INLET TYPE P-6
FDOT INDEX 200,201,205,211
EOP= 23.25
FL= 19.00 (NE)
BOT= 17.00

S-304 STA. 135+18.51, 52.04' RT
CONST. INLET TYPE P-6
FDOT INDEX 200,201,205,211
EOP= 23.38
FL= 18.70 (N, S, SW)
BOT= 16.70

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INDIAN RIVER COUNTY, FLORIDA

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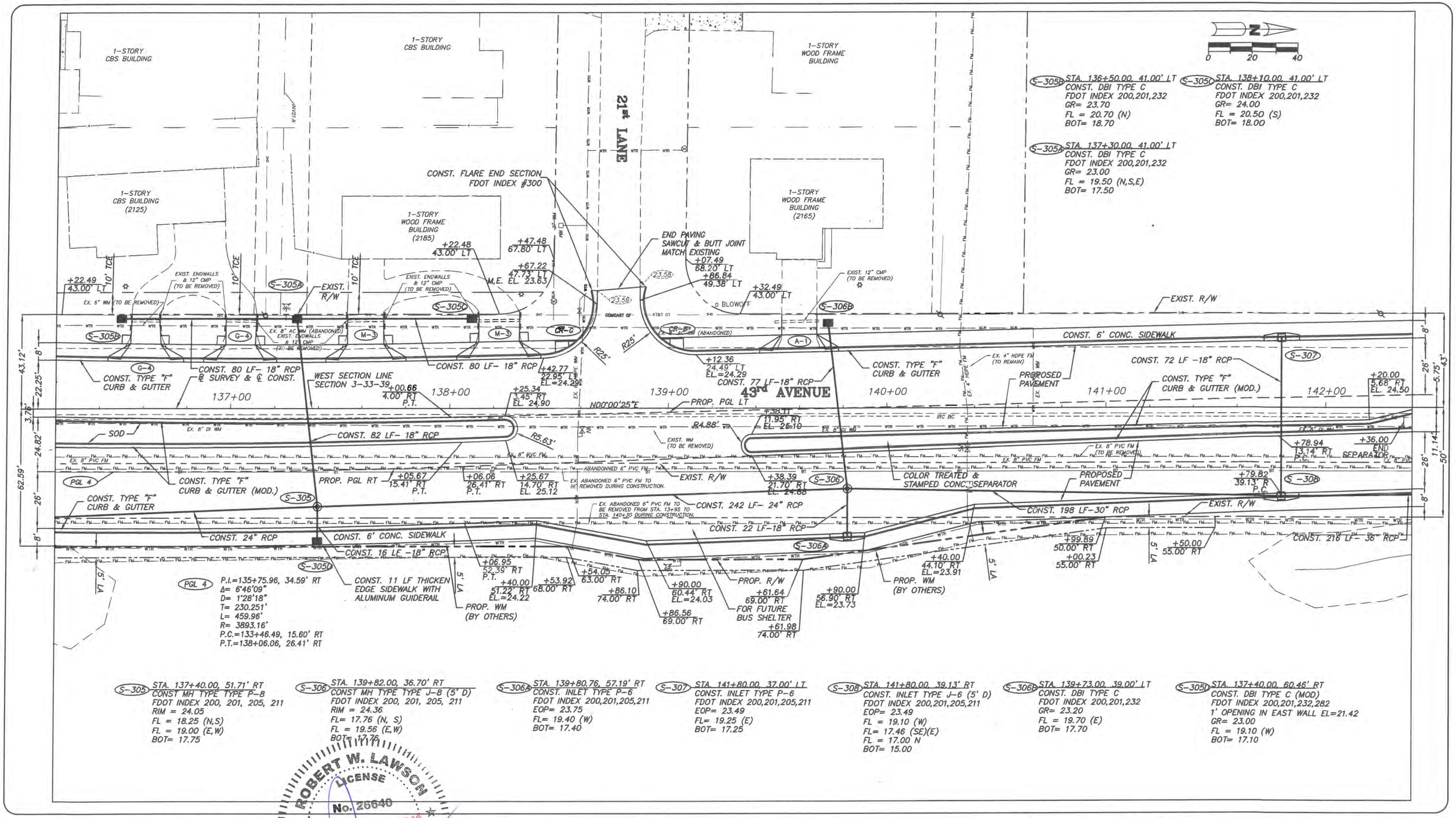

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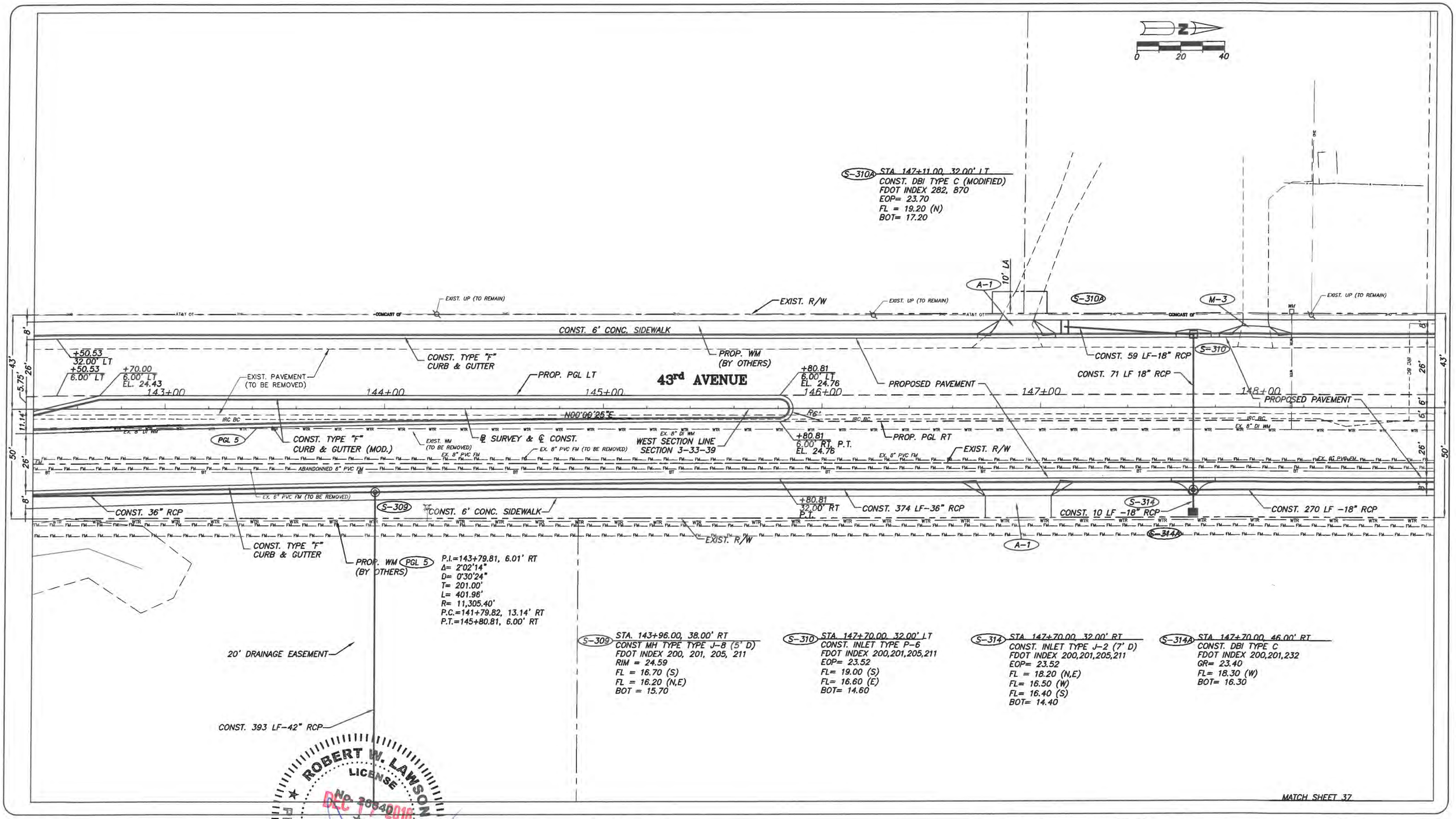

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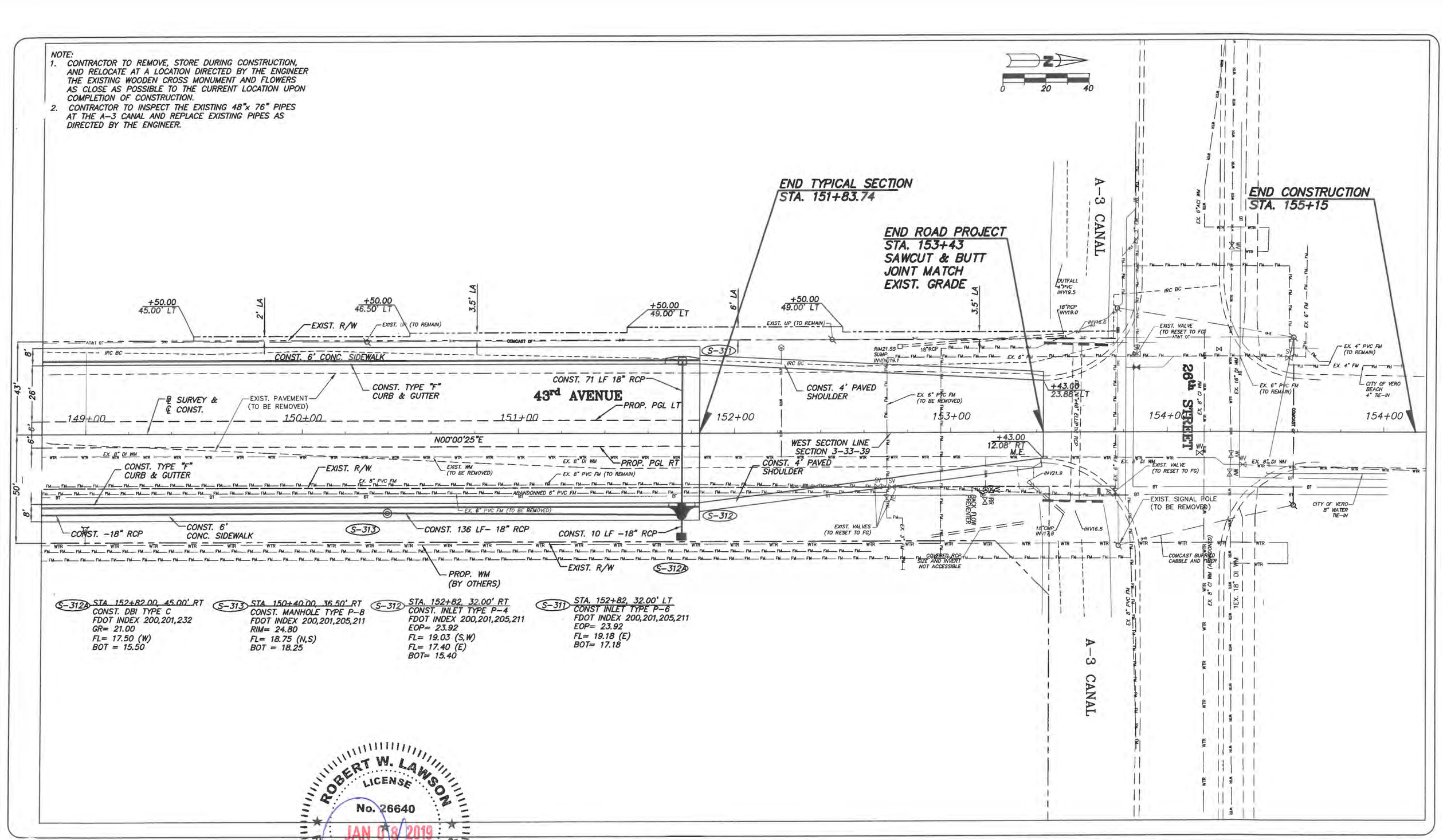
NOTE:
1. CONTRACTOR TO REMOVE, STORE DURING CONSTRUCTION, AND RELOCATE AT A LOCATION DIRECTED BY THE ENGINEER THE EXISTING WOODEN CROSS MONUMENT AND FLOWERS AS CLOSE AS POSSIBLE TO THE CURRENT LOCATION UPON COMPLETION OF CONSTRUCTION.
2. CONTRACTOR TO INSPECT THE EXISTING 48"x 76" PIPES AT THE A-3 CANAL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



S-312A STA. 152+82.00, 45.00' 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 200,201,205,211
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 200,201,205,211
EOP= 23.92
FL= 19.03 (S,W)
FL= 17.40 (E)
BOT= 15.40

S-311 STA. 152+82, 32.00' LT
CONST INLET TYPE P-6
FDOT INDEX 200,201,205,211
EOP= 23.92
FL= 19.18 (E)
BOT= 17.18

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INDIAN RIVER COUNTY FLORIDA

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MATCH SHEET 35

S-315 STA. 143+96.00, 428.00' RT
CONST MH TYPE TYPE J-8 (6' ø)
FDOT INDEX 200, 201, 205, 211
RIM = 24.00
FL= 16.00 (W, E)
BOT= 15.25

S-316 STA. 143+96.00, 821.00' RT
CONST MH TYPE TYPE J-8 (7' ø)
FDOT INDEX 200, 201, 205, 211
RIM = 24.00
FL= 15.60 (S, W)
BOT= 14.85

N

0 50 100

CONST. 42" RCP

CONST. 393 LF-42" RCP

S-315

S-316

S-317

CONST. 28 LF-42" RCP

CONST. 42" STRAIGHT
CONC. ENDWALL
FDOT INDEX 250
FL = 15.40

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EB7062 LB7062

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PAVEMENT WIDENING
PAVEMENT REMOVAL
MILLING
EXISTING BRIDGE
FRENCH DRAIN

N 40 20 0

MAIN CANAL
C.E. = 15.50

EXIST. R/W

SOFFIT OF CROSS BEAM ELEV 19.2

CONC. BRIDGE DECK

SAWCUT & MATCH EXIST. SIDEWALK

EXIST. UP
EXIST. LIGHT POLE
FLAG POLE

S-223 STA. 2638+46.67, 11.58' LT
REMOVE EXIST. INLET

S-222 STA. 2638+46.67, 13.10' LT
CONST. INLET TYPE J-2 (3.5'X5')
FDOT INDEX #200, 201, 205
CONST. CONTROL STRUCTURE
(SEE DETAIL)
EOP = 23.38
WEIR = 21.50
FL = 18.75 (E)
FL = 18.14 (S)
BOT.= 14.14

S-221 STA. 2640+00.00, 16.30' LT
CONST. INLET TYPE P-2
FDOT INDEX NO. 200, 201, 205 & 211
EOP = 23.24
FL = 18.75 (W&E)
BOT = 14.75

SR 60 ℄ STA. 2639+47.82
44th AVE. ℄= STA. 110+36.72

CONST. 140 LF FRENCH DRAIN WITH 12 LF – 18" RCP (SEE FDOT INDEX 285)

CONST. 6 LF– 15" RCP CONNECT TO EXIST. 15" RCP

CONST. 6' CONC. SIDEWALK

"INDIAN RIVER COUNTY WATER WORKS"
1-STORY CBS GARAGE

EXIST. UP (TO BE RELOCATED) (BY OTHERS)

+99.06
37.01' LT

CONST. 150 LF FRENCH DRAIN WITH 12 LF – 18" RCP (SEE FDOT INDEX 285)

EXIST. CANAL R/W

EXIST. R/W

PROP. R/W

℄ SURVEY & ℄ CONST.

+79.37
11.70' LT
SAWCUT & M.E. GUTTER & SIDEWALK

BEGIN MILLING & RESURFACING
SAWCUT & BUTT JOINT
MATCH EXIST. GRADE
+67.18
21.88' RT.

S89°19'17"E

OVERBUILD

+57.06
21.46' RT
EL=24.41

CONST. TYPE "F" CURB & GUTTER

EXIST. 6" WM (TO REMAIN)

CONST. TYPE "F" CURB & GUTTER (MODIFIED)

EXIST. 6" WM (TO REMAIN)

4-4" AT&T PVC DUCT

BT MH

COLOR TREATED & STAMPED CONC. SEP. W/6" SCHD. 80 PVC IRR. SLEEVE

EXIST. SEPARATOR (TO BE REMOVED)

BEGIN MILLING & RESURFACING

+26.51
37.76' RT

BEGIN OVERBUILD
CONST. TYPE "F" CURB & GUTTER
+69.20
71.30' RT
EL=23.89

+92.53
79.32' RT.
MEET EXIST. SW

+92.45
71.04' RT
EL=23.66

6-4" AT&T PVC DUCT

EXIST. SW (TO REMAIN)

CONST. 5' CONC. SIDEWALK

EXIST. 36" RCP (TO REMAIN)

BEGIN PROJECT
STA. 2635+38.00

ATLANTIC BLVD.

EXIST. CANAL R/W

+35.50
37.94' RT
PGL

+57.06
37.96' RT

OVERBUILD

EXIST. 24" RCP (TO BE REMOVED)

+85.50
26.89' RT
EL=24.49

+57.06
70.96' RT

EXIST. CANAL R/W

EXIST. 15" RCP (TO REMAIN)

STATE ROUTE 60

CONST. CURB RAMP TYPE G INDEX 304

+12.86
70.59' RT
EL=23.56

CONST. 74 LF– 18" RCP

CONST. CURB RAMP TYPE G INDEX 304

+84.95
81.41' RT
EL=23.38

EXIST. CURB & GUTTER (TO BE REMOVED)

6-4" AT&T PVC DUCT

EXIST. 24" RCP TO BE REMOVED & REPLACED W/64 LF –36" RCP

+90.11
82.09' RT

+89.32
88.67' RT

+40.17
78.54' RT

+40.49
83.57' RT

+42.99
86.28' RT

EXIST. R/W
+46.78
80.00' RT

EXIST. 24" RCP TO BE REMOVED & REPLACED W/134 LF –36" RCP

PROP. R/W

+03.74
92.33' RT

+23.88
92.27' RT

EXIST. 18" RCP TO BE REMOVED & REPLACED W/80 LF –36" RCP

+41.54
11.00' LT

+73.88
92.09' RT

EXIST. UP (TO BE RELOCATED) (BY OTHERS)

PROP. R/W

OVERHANG

"MOBIL"

+31.24
11.00' RT
EL=23.13

+61.16
11.00' RT
EL=23.36

CONST. 28 LF– 36" RCP

REMOVE EXIST. PIPE & CONST. 36" RCP

CONST. 25 LF 18" RCP

EXIST. PAVEMENT TO BE RECONSTRUCTED

44th AVENUE 109+00

S-224 STA. 2638+47.50, 71.99' RT
REMOVE EXIST. INLET
CONST. INLET TYPE J-6 (5' D)
FDOT INDEX NO. 200, 201, 205 & 211
EOP = 23.36
FL = M.E. N
FL = 16.96 SE
FL = 15.35 W
BOT = 13.55

S-225 STA. 2637+12.94, 67.23' RT
EXIST. MH TO BE REMOVED
CONST MH TYPE TYPE J-8 (5' D)
FDOT INDEX 200, 201, 205, & 211
RIM = 23.84
FL = 15.25 SW & E
BOT = 15.25

S-219 STA. 2639+26.45, 81.13' RT
EXIST. MH TO BE REMOVED
CONST MH TYPE TYPE J-8 (8' D)
RIM = 23.36
FL = 19.30 E
FL = 17.01 NW & SE
BOT = 16.51

S-218 STA. 2640+00.00, 81.38' RT
CONST. INLET TYPE P-5
FDOT INDEX NO. 200, 201, 205 & 211
EOP= 23.44
FL = 18.75 (W)
BOT = 14.50

S-217 STA. 109+29.00, 11.00' LT
CONST. INLET TYPE P-5
FDOT INDEX 200,201,205 & 211
EOP = 23.12
FL = 18.85 E
FL = 17.03 S & NW
BOT = 15.03

S-216 STA. 109+29.00, 11.00' RT
CONST. INLET TYPE P-5
FDOT INDEX 200,201,205, & 211
EOP = 23.12
FL = 18.90 W
BOT = 16.90

S-226 STA. 2636+52.00, 83.60' RT
EXIST. MH TO BE REMOVED
CONST MH TYPE TYPE J-8 (5' D)
FDOT INDEX 200, 201, 205, & 211
RIM = 23.84
FL = 15.20 NE
FL = M. E.
BOT = 15.20

MATCH SHEET NO. 43

MATCH SHEET NO. 43

MATCH SHEET 39

MATCH SHEET 37

ROBERT W. DAVIDSON LICENSED PROFESSIONAL ENGINEER No. 26640 STATE OF FLORIDA EB7082

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S-01C
STA. 2646+53.00, 67.00' LT
CONST. DBI TYPE C
FDOT INDEX NO. 200, 201, 232
GR EL. = 23.35
FL = 19.60 (E,W)
BOT = 17.60

S-01D
STA. 2646+97.00, 67.00' LT
CONST. DBI TYPE C
FDOT INDEX NO. 200, 201, 232
GR EL. = 23.20
FL = 19.70 (W)
BOT = 17.70

S-01
STA. 2648+60.00, 49.50' LT
CONST. INLET TYPE P-2
FDOT INDEX NO. 200, 201, 205 & 211
EOP EL. = 22.88
FL = 19.00 E
FL = 18.60 W
BOT = 14.60

S-13
STA. 2650+00.00, 42.69' LT
CONST. INLET TYPE P-2
FDOT INDEX NO. 200, 201, 205 & 211
EOP EL. = 22.66
FL = 18.25 (SE)
BOT = 14.25

S-11
STA. 2650+98.53, 35.57' LT
CONST. INLET TYPE P-1
FDOT INDEX NO. 200, 201, 205 & 211
EOP EL. = 22.95
MH RIM EL. = 23.40
FL = 18.73 (SW & NW)
FL = 18.25 (E)
BOT = 14.25

S-11A
STA. 2650+73.87, 50.86' LT
CONST. DBI TYPE C
FDOT INDEX NO. 232
MH RIM EL. = 22.88
FL = 18.78 (SE)
BOT = 16.78

S-13B
STA. 2648+60.00, 38.50' LT
CONST. INLET TYPE P-1
FDOT INDEX NO. 200, 201, 205 & 211
EOP EL. = 23.10
FL = 18.25 (E,W)
BOT = 14.25

S-14
STA. 2650+08.75, 28.82' LT
REMOVE & REPLACE EXIST. INLET W/MH TYPE J-7 (5' X 5')
FDOT INDEX #200, 201, 205, & 211
CONST. CONTROL STRUCTURE (SEE DETAIL)
RIM = 22.93 WEIR = 21.00
FL = 18.20 NW
FL = MEET EXIST. (S & E)
BOT = 16.00

S-12
STA. 2650+96.63, 29.89' LT
REMOVE & REPLACE EXIST. INLET TOP W/MH TYPE P-8 (PARTIAL)
FDOT INDEX NO. 200, 201, 205 & 211
MH RIM EL. = 23.12
CONST. CONTROL STRUCTURE (SEE DETAIL)
WEIR = 20.20
CORE DRIL & CONNECT
PROP. 18" RCP
FL = 18.70 (NE)

S-13A
STA. 2647+12.00, 43.50' LT
CONST. MH TYPE P-7
FDOT INDEX #200, 201, 205
RIM = 24.00
FL = 18.25 (E)
BOT = 14.25

ATLANTIC BLVD

41st AVENUE

MATCH SHEET 32

PROP. FRENCH DRAIN
PROP. 96 LF 18" RCP
PROP. 44 LF 18" RCP
PROP. 12" WM (BY OTHERS)
PROP. 136 LF FRENCH DRAIN WITH 12 LF - 18" RCP (SEE FDOT INDEX 285 & SHEET 12)
PROP. 128 LF FRENCH DRAIN WITH 12 LF - 18" RCP (SEE FDOT INDEX 285 & SHEET 12)
PROP. 16 LF 18" RCP
PROP. 25 LF 18" RCP
PROP. 11 LF 18" RCP
PROP. PGL LT
PROP. PGL RT
PROP. R/W
EXIST. R/W
EXIST. CURB & GUTTER (TO BE REMOVED)
EXIST. PAVEMENT (TO BE MILLED & RESURFACED)
EXIST. CURB & GUTTER & SEPARATOR (TO BE REMOVED)
EXIST. 8" WM (TO REMAIN)
EXIST. 8" WM (TO BE REMOVED)
EXIST. LIGHT POLE (TO BE REMOVED)
EXIST. 18" RCP (TO REMAIN)
EXIST. 54" RCP (TO REMAIN)
EXIST. 6" FM (TO REMAIN)
EXIST. MH (TO REMAIN, & RESET TO GRADE)
EXIST. CB (TO REMAIN)
EXIST. 15" SD (TO REMAIN)
BACK FLOW PREVENTER
CONST. TYPE "F" CURB & GUTTER
CONST. TYPE "E" CURB & GUTTER
CONST. VALLEY GUTTER
CONST. 6" CURB & GUTTER TYPE E MOD.
EXIST. SEPARATOR (TO BE REMOVED)
CONST. 6' CONC. SIDEWALK
TYPE IV CONC. SEPARATOR WITH COLOR TREATED AND STAMPED CONC.
@ SURVEY & ℄ CONST.
BEGIN 60 :1 PGL TRANS. "B"
BEGIN 60 :1 PGL TRANS. "E"
BEGIN EOP 60 :1 TRANS.
BEGIN SEPARATOR
OVERHANG
S89°31'04"E
STATE ROUTE 60
SET TBM ELEV 24.66
SET TBM ELEV 24.39
4-4" AT&T PVC DUCT
2-4" AT&T PVC DUCT
9-4" AT&T PVC DUCT
REFER TO X-SECT. FOR DIVEWAY PROFILE
PAVEMENT WIDENING
PAVEMENT REMOVAL
MILLING
FRENCH DRAIN
STRIP MALL 1-STORY CBS BUILDING
"SUN TRUST BANK" 1-STORY CBS BUILDING
"TACO BELL" 1-STORY CBS BUILDING
42nd AVENUE

S-17
STA. 2647+01.10, 54.60' RT
EXIST. MH TOP TO BE ADJUSTED
EXIST. MH RIM EL. = 23.10
PROP. MH RIM EL. = 23.86

S-16
STA. 2648+65.38, 54.66' RT
EXIST. MH TOP TO BE ADJUSTED
EXIST. MH RIM EL. = 23.10
PROP. MH RIM EL. = 23.37

S-15
STA. 2650+09.00, 56.94' RT
EXIST CATCH BASIN
TOP TO BE ADJUSTED
EXIST. INLET RIM EL. = 22.53
PROP. INLET RIM EL. = 22.91

S-10
STA. 2650+97.85, 58.42' RT
EXIST CATCH BASIN
TOP TO BE ADJUSTED
EXIST. INLET RIM EL. = 22.49
PROP. INLET RIM EL. = 23.18

BENCHMARK:
SET M/D "TRAV. PT LB 6674"
@ ℄ MEDIAN OF SR60 @
+/- RADIUS POINT OF BULLNOSE
JUST WEST OF 41st AVE.
ELEV. = 24.394

ROBERT W. LAWSON LICENSE No. 56640 STATE OF FLORIDA PROFESSIONAL ENGINEER
DEC 17 2018

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INDIAN RIVER COUNTY FLORIDA

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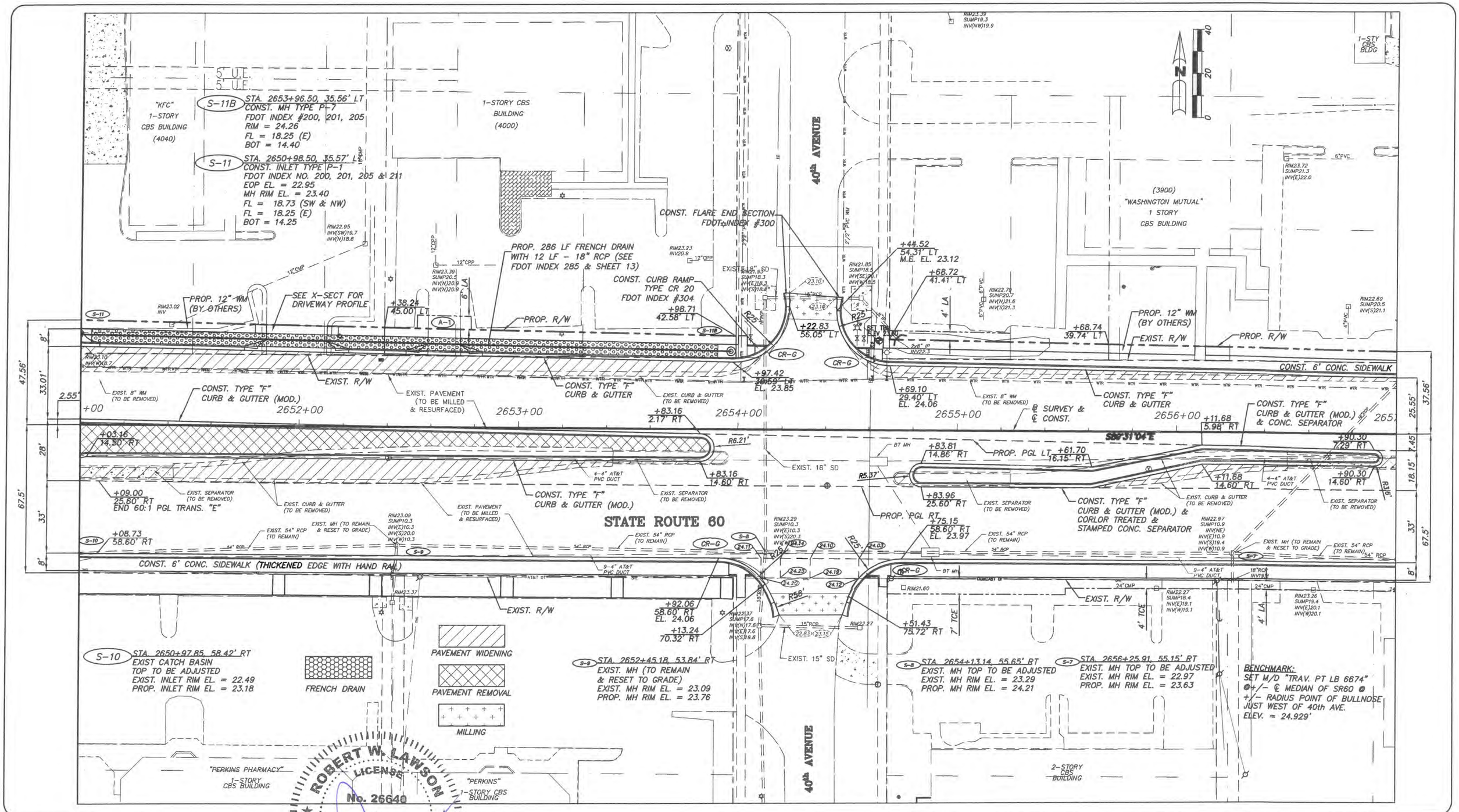

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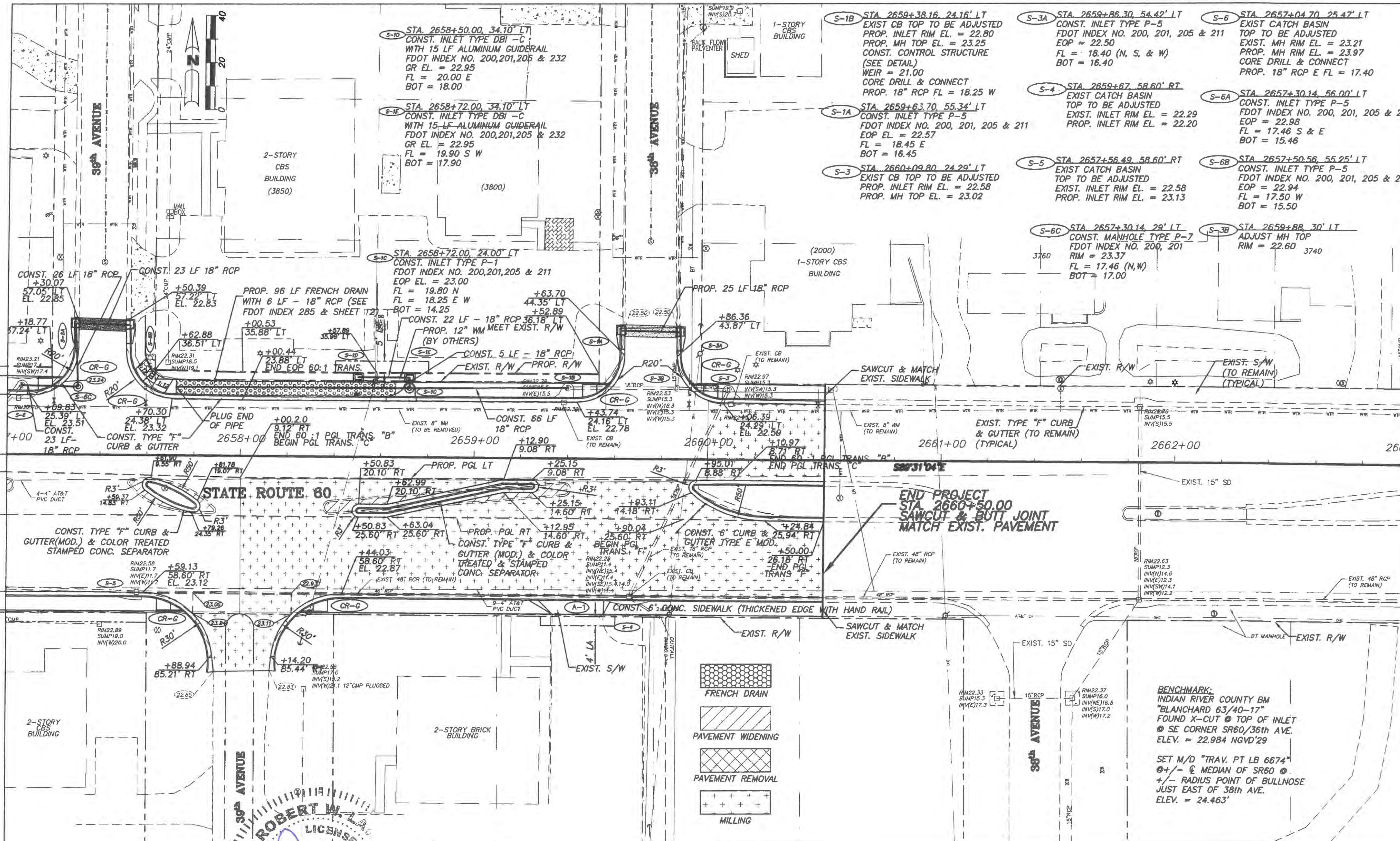

S-1D STA. 2658+50.00, 34.10' LT
CONST. INLET TYPE DBI -C
WITH 15 LF ALUMINUM GUIDERAIL
FDOT INDEX NO. 200,201,205 & 232
GR EL. = 22.95
FL = 20.00 E
BOT = 18.00
S-1E STA. 2658+72.00, 34.10' LT
CONST. INLET TYPE DBI -C
WITH 15 LF ALUMINUM GUIDERAIL
FDOT INDEX NO. 200,201,205 & 232
GR EL. = 22.95
FL = 19.90 S W
BOT = 17.90
S-1B STA. 2659+38.16, 24.16' LT
EXIST CB TOP TO BE ADJUSTED
PROP. INLET RIM EL. = 22.80
PROP. MH TOP EL. = 23.25
CONST. CONTROL STRUCTURE
(SEE DETAIL)
WEIR = 21.00
CORE DRILL & CONNECT
PROP. 18" RCP FL = 18.25 W
S-1A STA. 2659+63.70, 55.34' LT
CONST. INLET TYPE P-5
FDOT INDEX NO. 200, 201, 205 & 211
EOP EL. = 22.57
FL = 18.45 E
BOT = 16.45
S-3 STA. 2660+09.80, 24.29' LT
EXIST CB TOP TO BE ADJUSTED
PROP. INLET RIM EL. = 22.58
PROP. MH TOP EL. = 23.02
S-3A STA. 2659+86.30, 54.42' LT
CONST. INLET TYPE P-5
FDOT INDEX NO. 200, 201, 205 & 211
EOP = 22.50
FL = 18.40 (N, S, & W)
BOT = 16.40
S-4 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-5 STA. 2657+56.49, 58.60' RT
EXIST CATCH BASIN
TOP TO BE ADJUSTED
EXIST. INLET RIM EL. = 22.58
PROP. INLET RIM EL. = 23.13
S-6C 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-6 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
S-6A STA. 2657+30.14, 56.00' LT
CONST. INLET TYPE P-5
FDOT INDEX NO. 200, 201, 205 & 211
EOP = 22.98
FL = 17.46 S & E
BOT = 15.46
S-6B STA. 2657+50.56, 55.25' LT
CONST. INLET TYPE P-5
FDOT INDEX NO. 200, 201, 205 & 211
EOP = 22.94
FL = 17.50 W
BOT = 15.50
S-3B STA. 2659+88, 30' LT
ADJUST MH TOP
RIM = 22.60
S-1C STA. 2658+72.00, 24.00' LT
CONST. INLET TYPE P-1
FDOT INDEX NO. 200,201,205 & 211
EOP EL. = 23.00
FL = 19.80 N
FL = 18.25 E W
BOT = 14.25
36th AVENUE
38th AVENUE
39th AVENUE
2-STORY CBS BUILDING (3850)
(3800)
(2000) 1-STORY CBS BUILDING
1-STORY CBS BUILDING
SHED
BACK FLOW PREVENTER
3760
3740
CONST. 26 LF 18" RCP
CONST. 23 LF 18" RCP
PROP. 96 LF FRENCH DRAIN WITH 6 LF - 18" RCP (SEE FDOT INDEX 285 & SHEET 12)
CONST. 22 LF - 18" RCP
PROP. 12" WM (BY OTHERS)
MEET EXIST. R/W
CONST. 5 LF - 18" RCP
EXIST. R/W
PROP. R/W
PROP. 25 LF 18" RCP
END EOP 60:1 TRANS.
PLUG END OF PIPE
CONST. TYPE "F" CURB & GUTTER
CONST. 23 LF- 18" RCP
CONST. 66 LF 18" RCP
END 60 :1 PGL TRANS. "B" BEGIN PGL TRANS. "C"
SAWCUT & MATCH EXIST. SIDEWALK
EXIST. S/W (TO REMAIN) (TYPICAL)
EXIST. TYPE "F" CURB & GUTTER (TO REMAIN) (TYPICAL)
STATE ROUTE 60
S89°31'04"E
PROP. PGL LT
PROP. PGL RT
END PGL TRANS. "C"
BEGIN PGL TRANS. "F"
END PGL TRANS "F"
CONST. TYPE "F" CURB & GUTTER(MOD.) & COLOR TREATED STAMPED CONC. SEPARATOR
CONST. 6" CURB & GUTTER TYPE E MOD.
END PROJECT
STA. 2660+50.00
SAWCUT & BUTT JOINT
MATCH EXIST. PAVEMENT
CONST. 6' CONC. SIDEWALK (THICKENED EDGE WITH HAND RAIL)
SAWCUT & MATCH EXIST. SIDEWALK
EXIST. S/W
EXIST. 15" SD
EXIST. 48" RCP (TO REMAIN)
2658+00
2659+00
2660+00
2661+00
2662+00
2-STORY CBS BUILDING
2-STORY BRICK BUILDING
FRENCH DRAIN
PAVEMENT WIDENING
PAVEMENT REMOVAL
MILLING
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"
@+/- ℄ MEDIAN OF SR60 @
+/- RADIUS POINT OF BULLNOSE
JUST EAST OF 38th AVE.
ELEV. = 24.463'

ROBERT W. LA... LICENSE No. ... STATE OF FLORIDA PROFESSIONAL ENGINEER
DEC 17 2018

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INDIAN RIVER COUNTY FLORIDA
Department of Public Works
Engineering Division

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PLAN SHEETS
FOR
SR 60 & 43RD AVENUE

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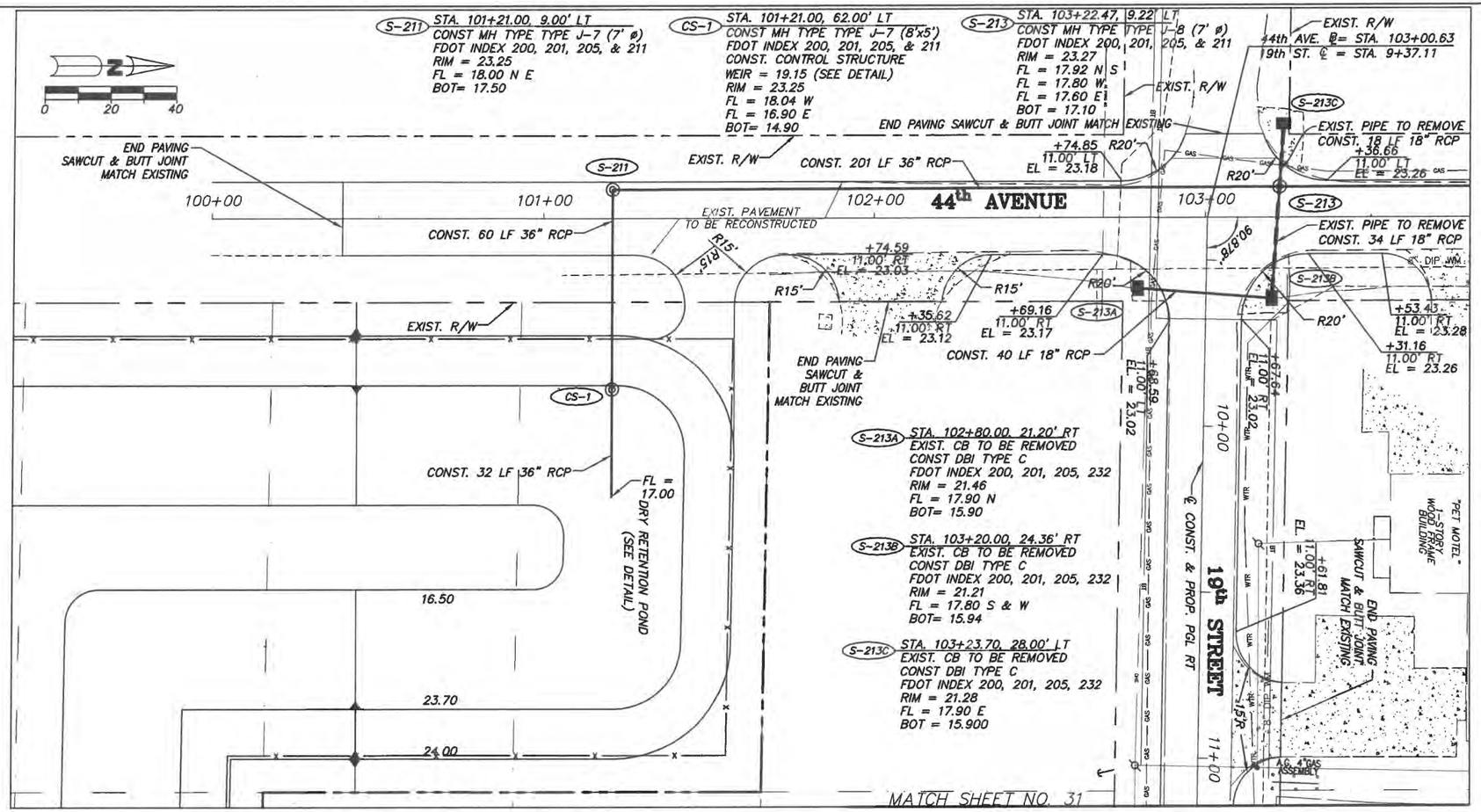

44TH AVENUE PLAN SHEET

ROBERT W. LAWSON LICENSE No. 26640 STATE OF FLORIDA PROFESSIONAL ENGINEER ENGINEERING BUSINESS #24708

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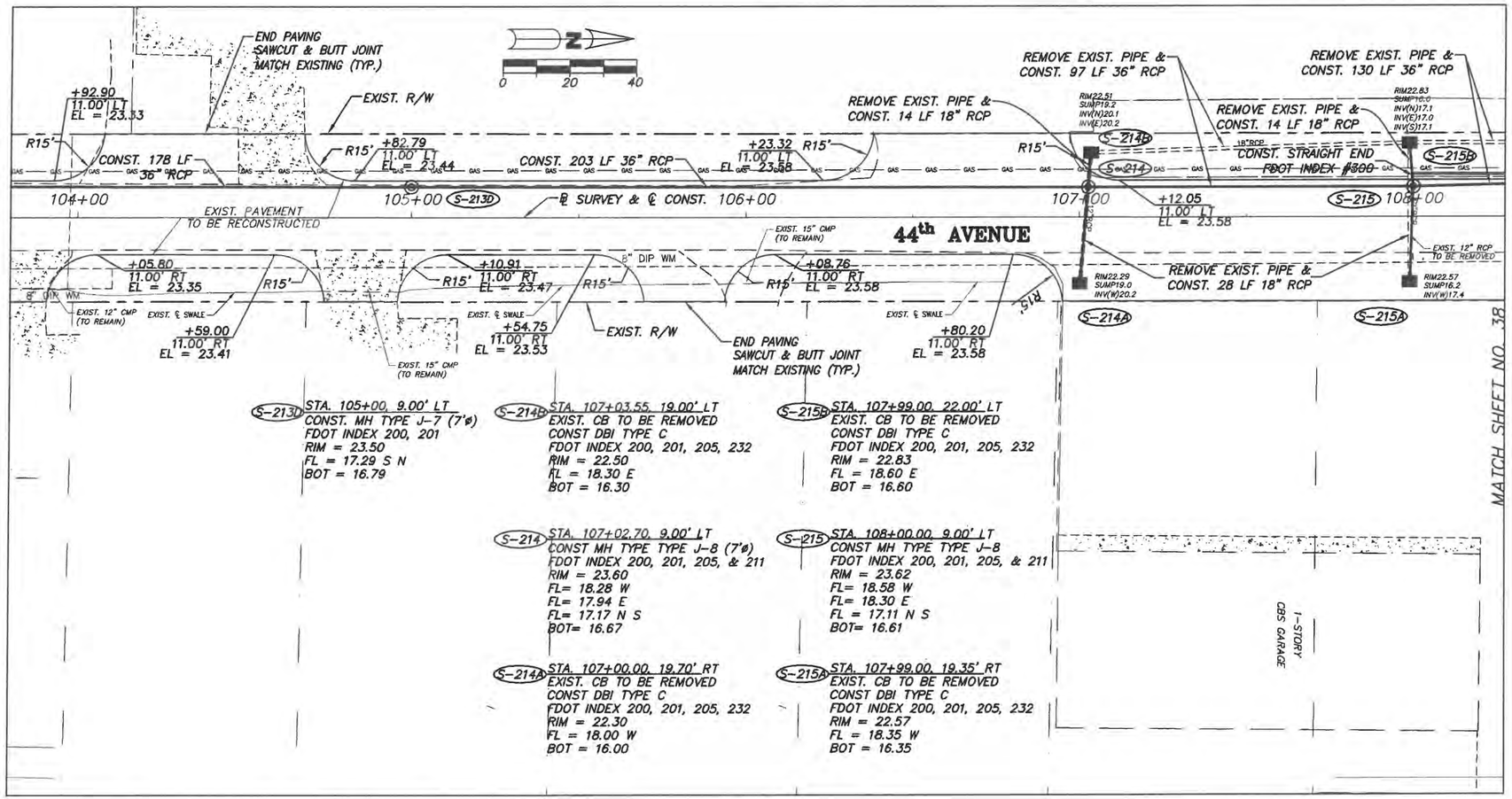

44TH AVENUE PLAN SHEET

ROBERT W. LAWSON LICENSE No. 26640 STATE OF FLORIDA PROFESSIONAL ENGINEER EB7847

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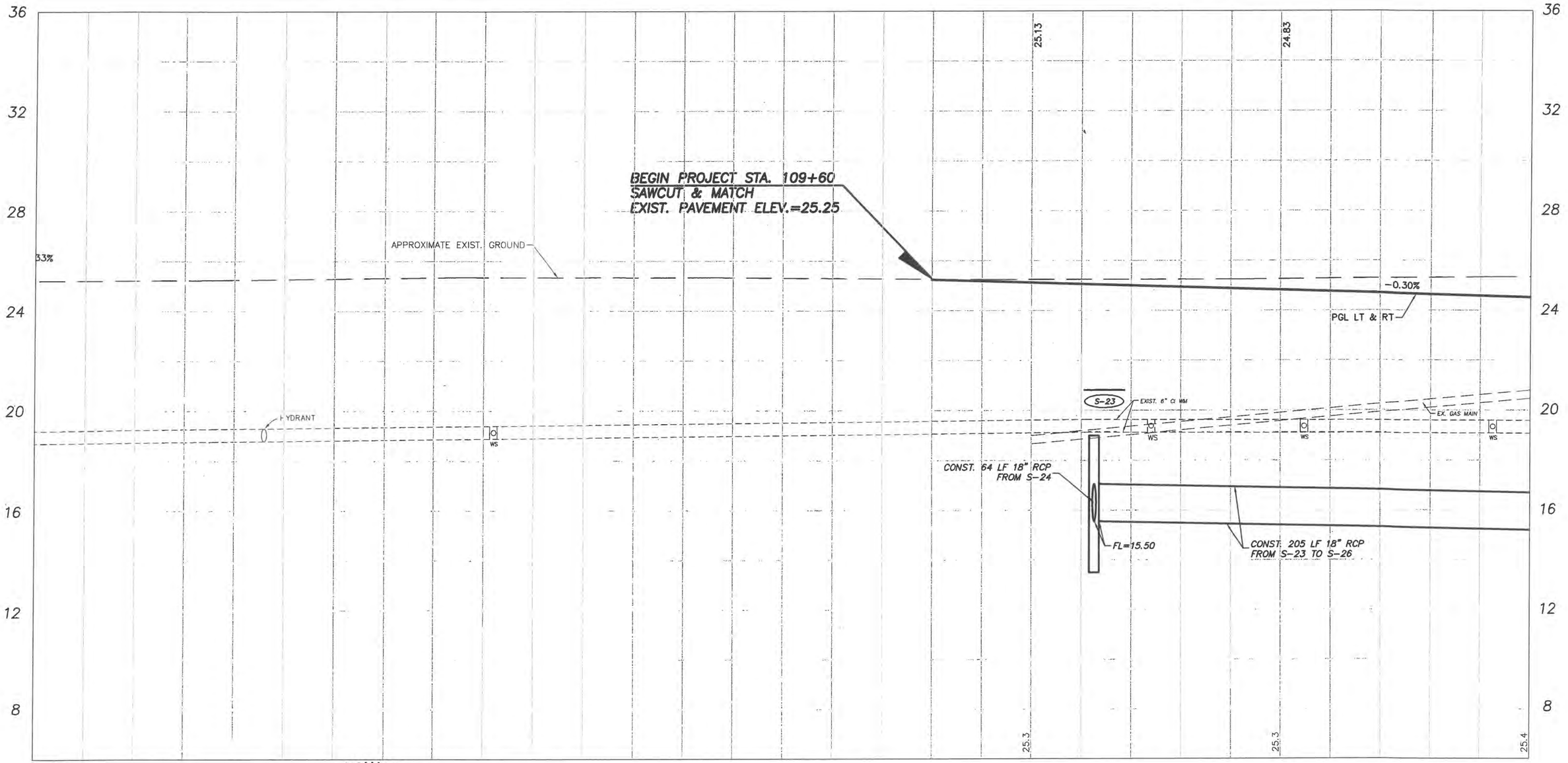

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Project:
PROFILE SHEETS
FOR
SR 60 & 43RD AVENUE

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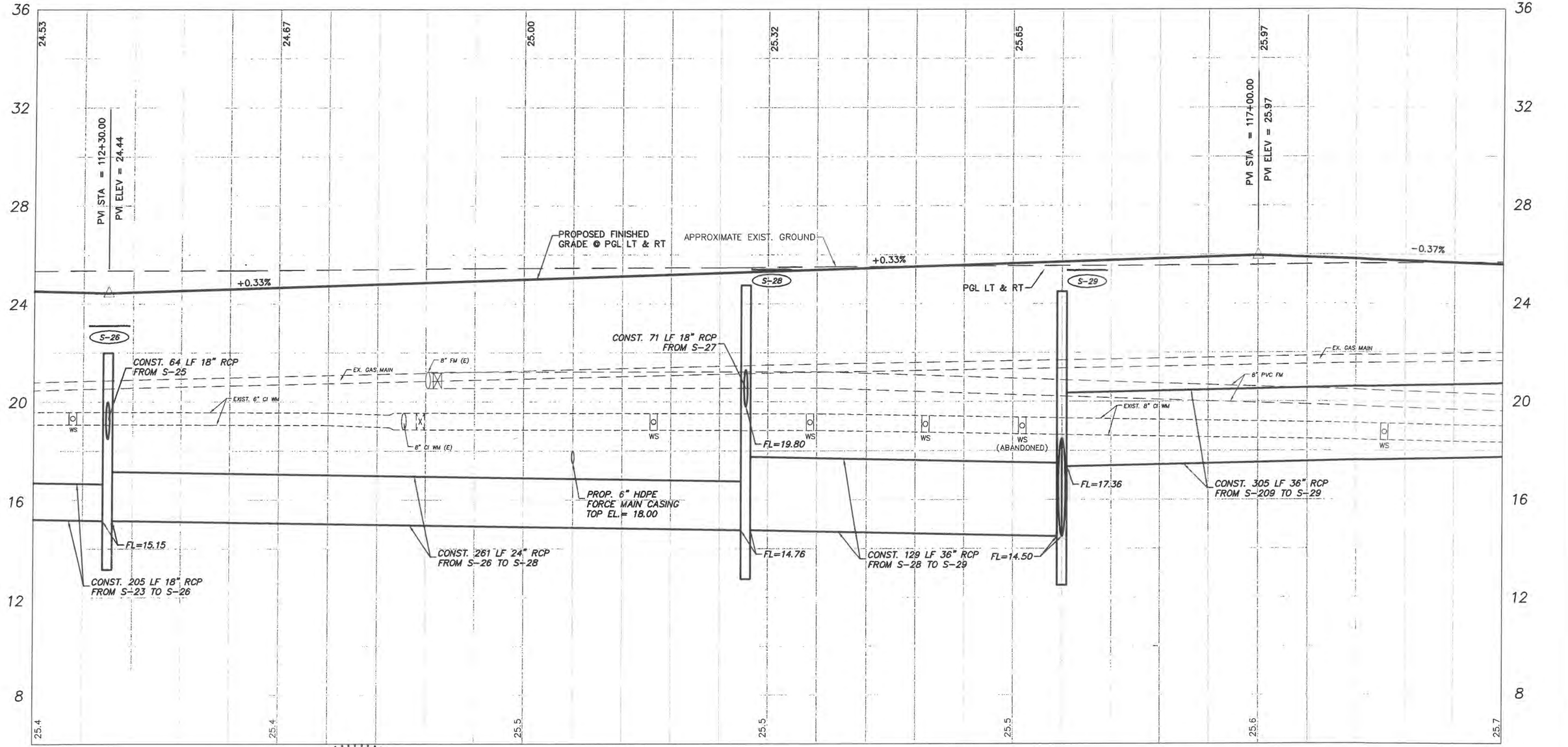

ROBERT W. LAWSON LICENSE No. 26640 STATE OF FLORIDA PROFESSIONAL ENGINEER

DEC 17 2016

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PROFILE SHEETS
FOR
SR 60 & 43RD AVENUE

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Project No.
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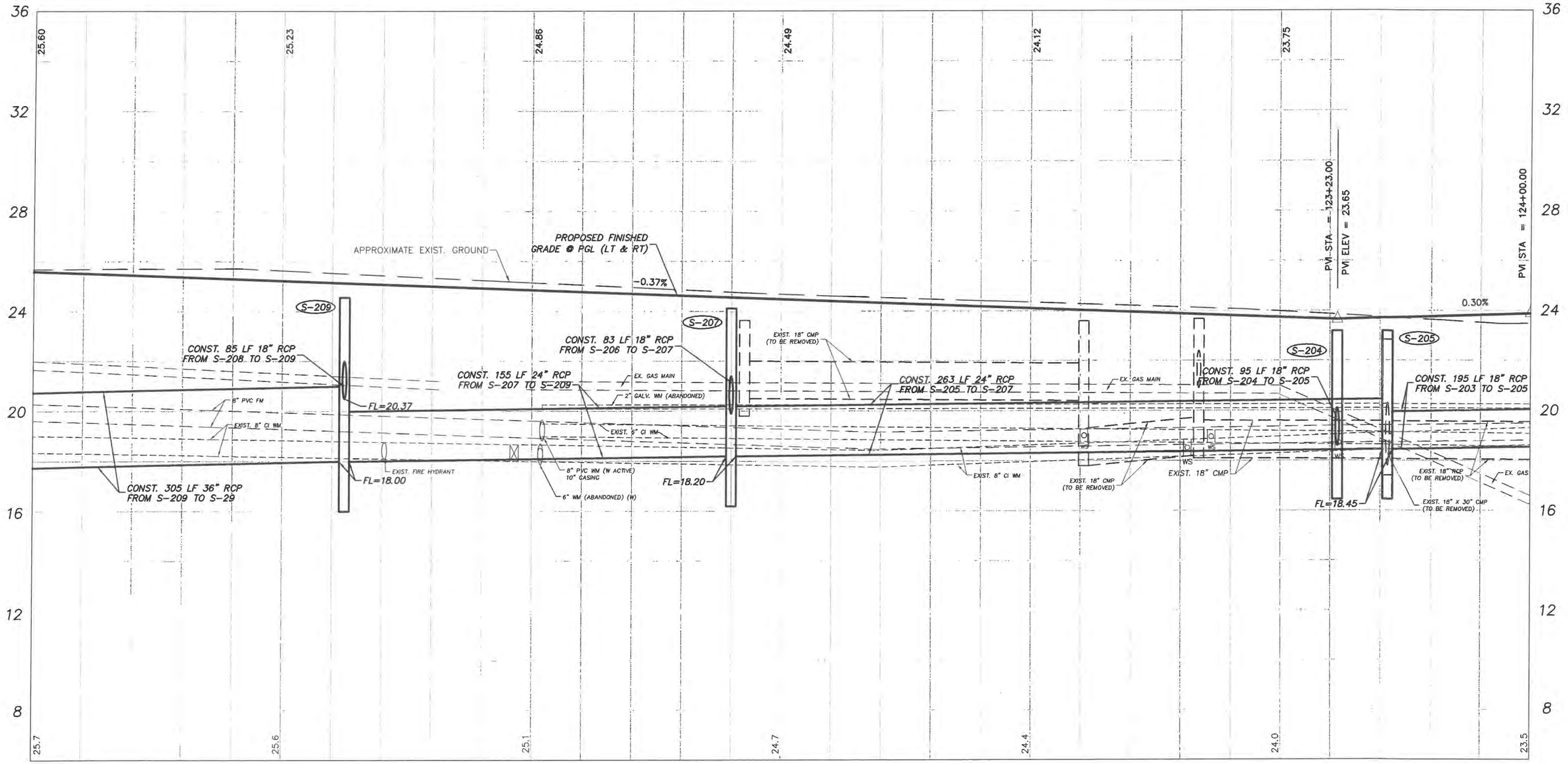

ROBERT W. LAWSON LICENSE No. 26640 STATE OF FLORIDA PROFESSIONAL ENGINEER EB3100

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PROFILE SHEETS
FOR
SR 60 & 43RD AVENUE

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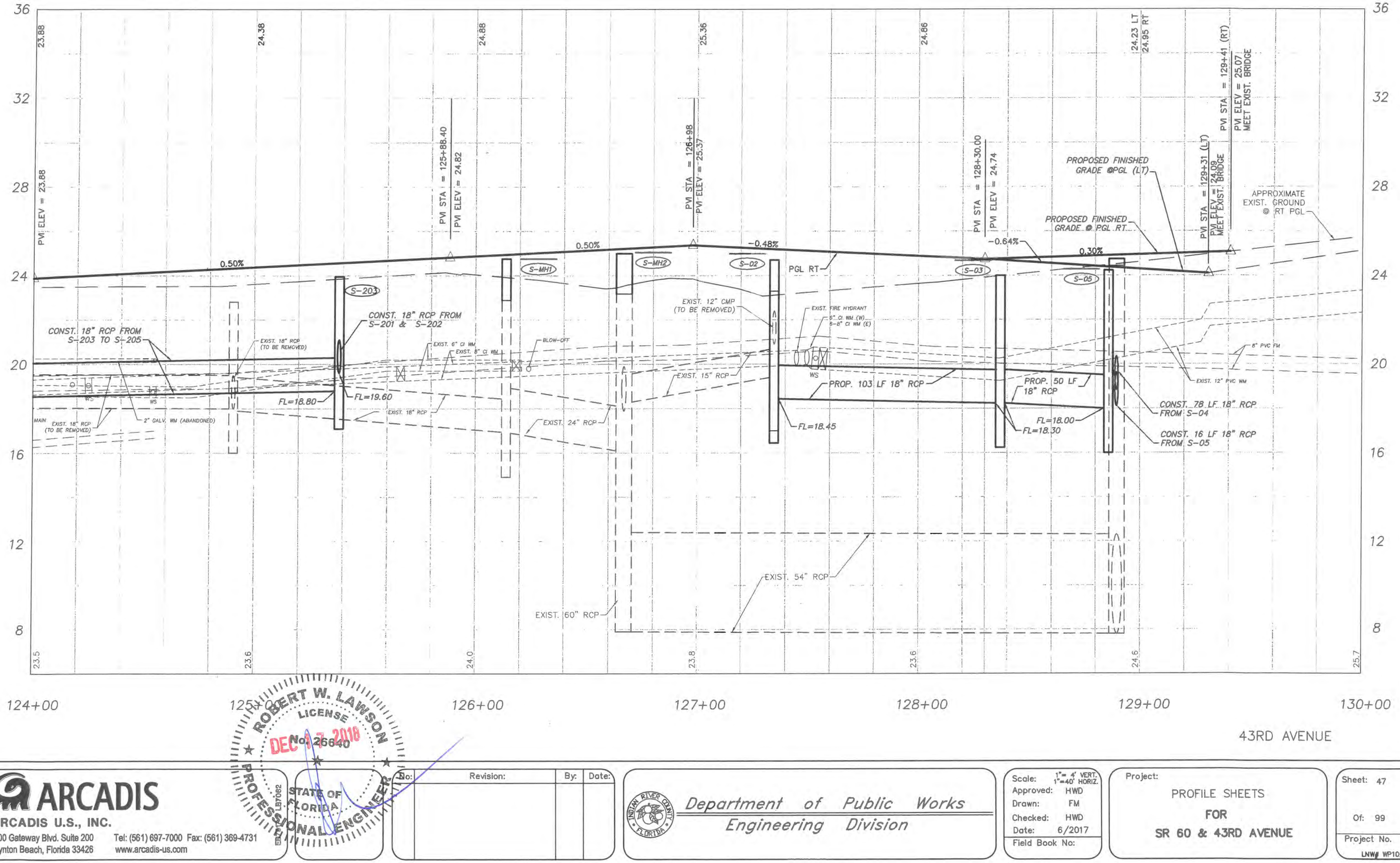
Project No.
LNW# WP1027



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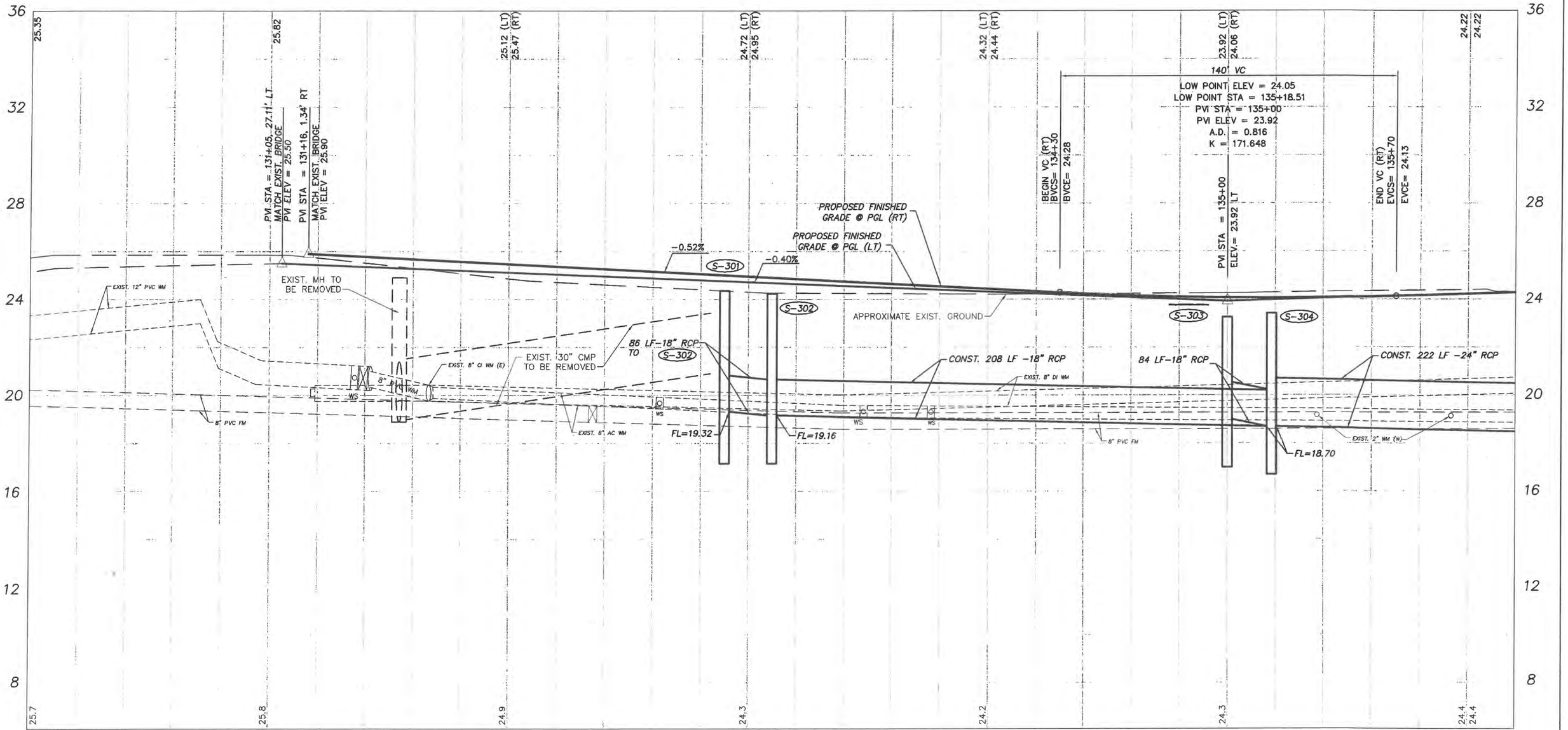

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PROFILE SHEETS
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SR 60 & 43RD AVENUE

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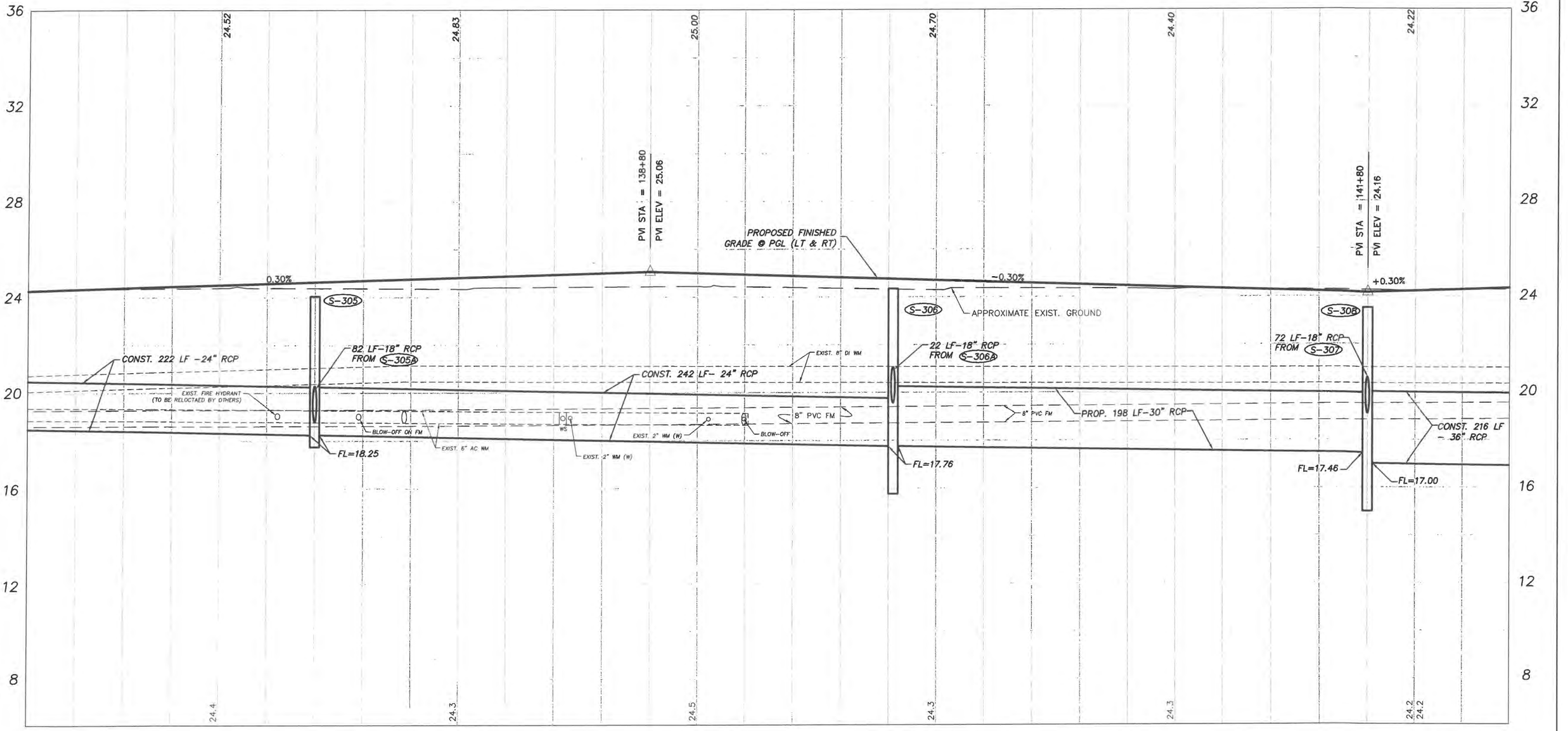

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PROFILE SHEETS
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SR 60 & 43RD AVENUE

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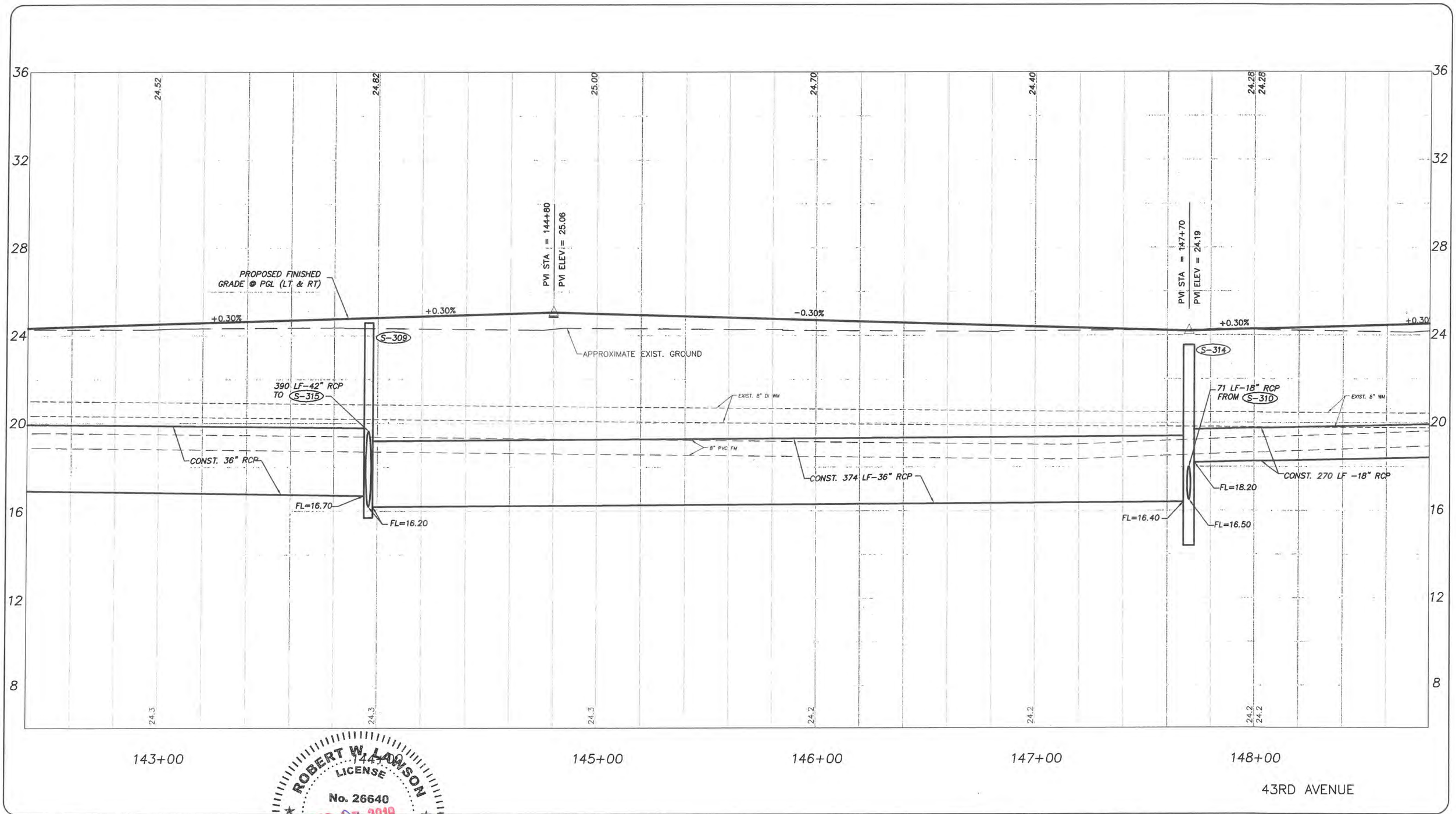

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PROFILE SHEETS
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SR 60 & 43RD AVENUE

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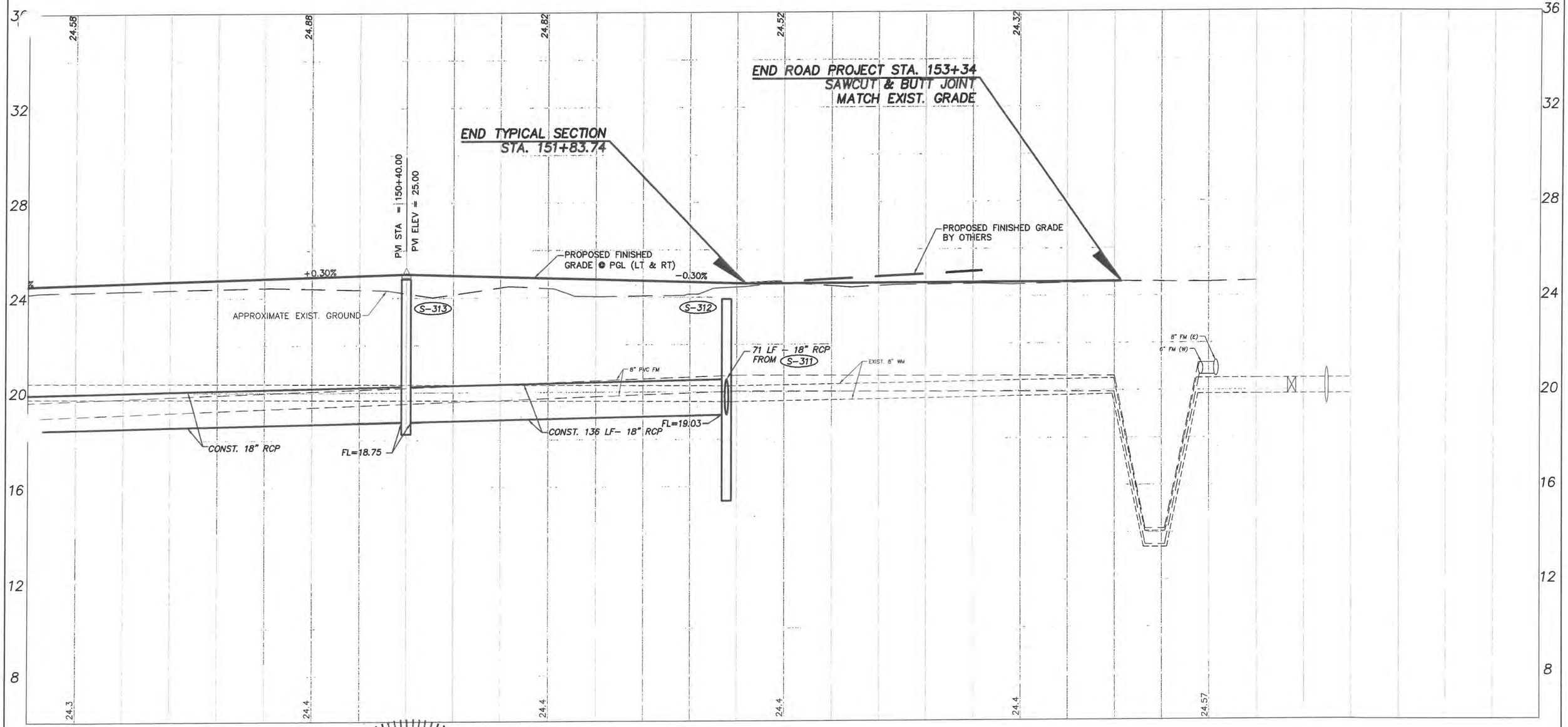

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SR 60 & 43RD AVENUE

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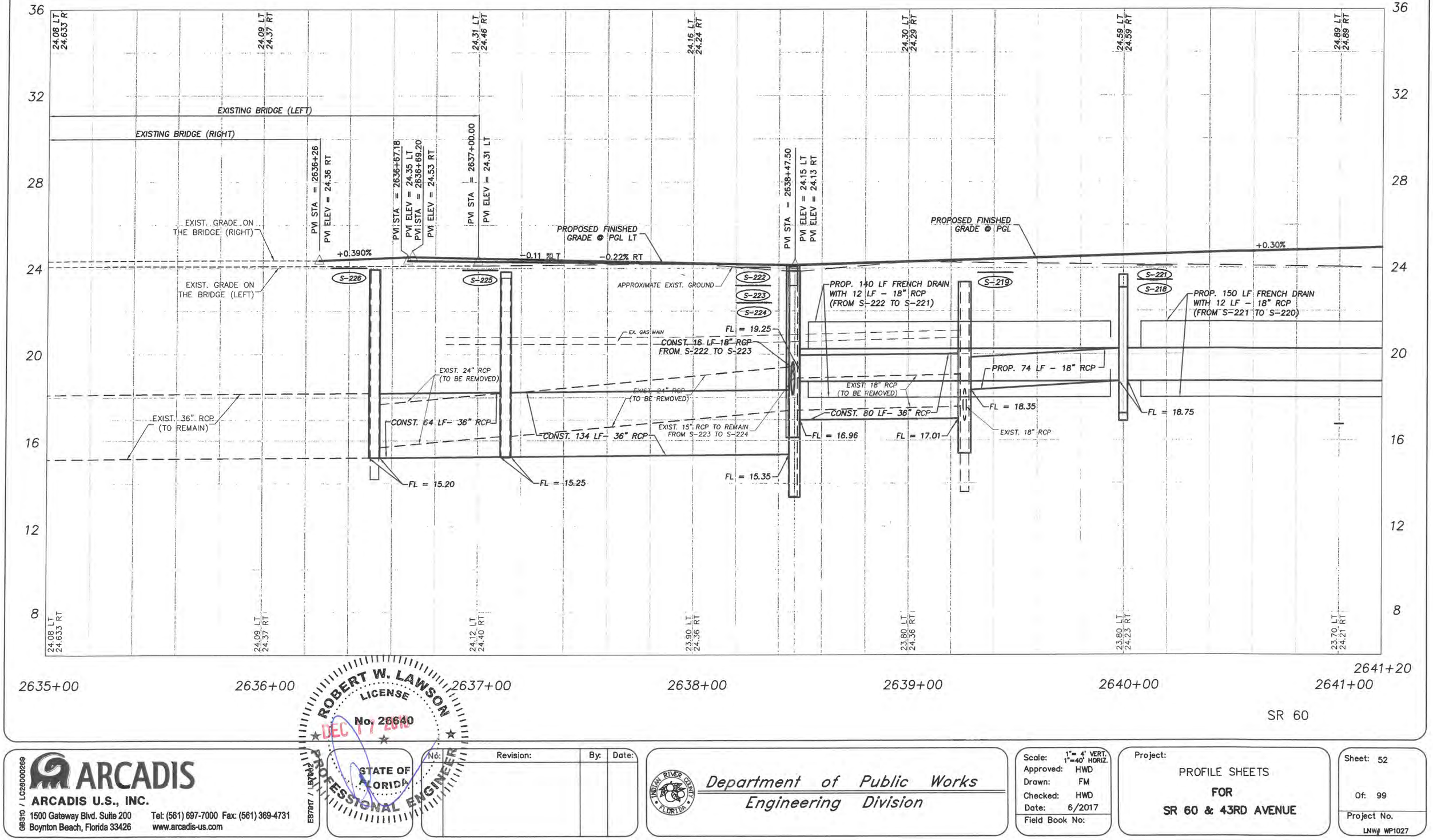

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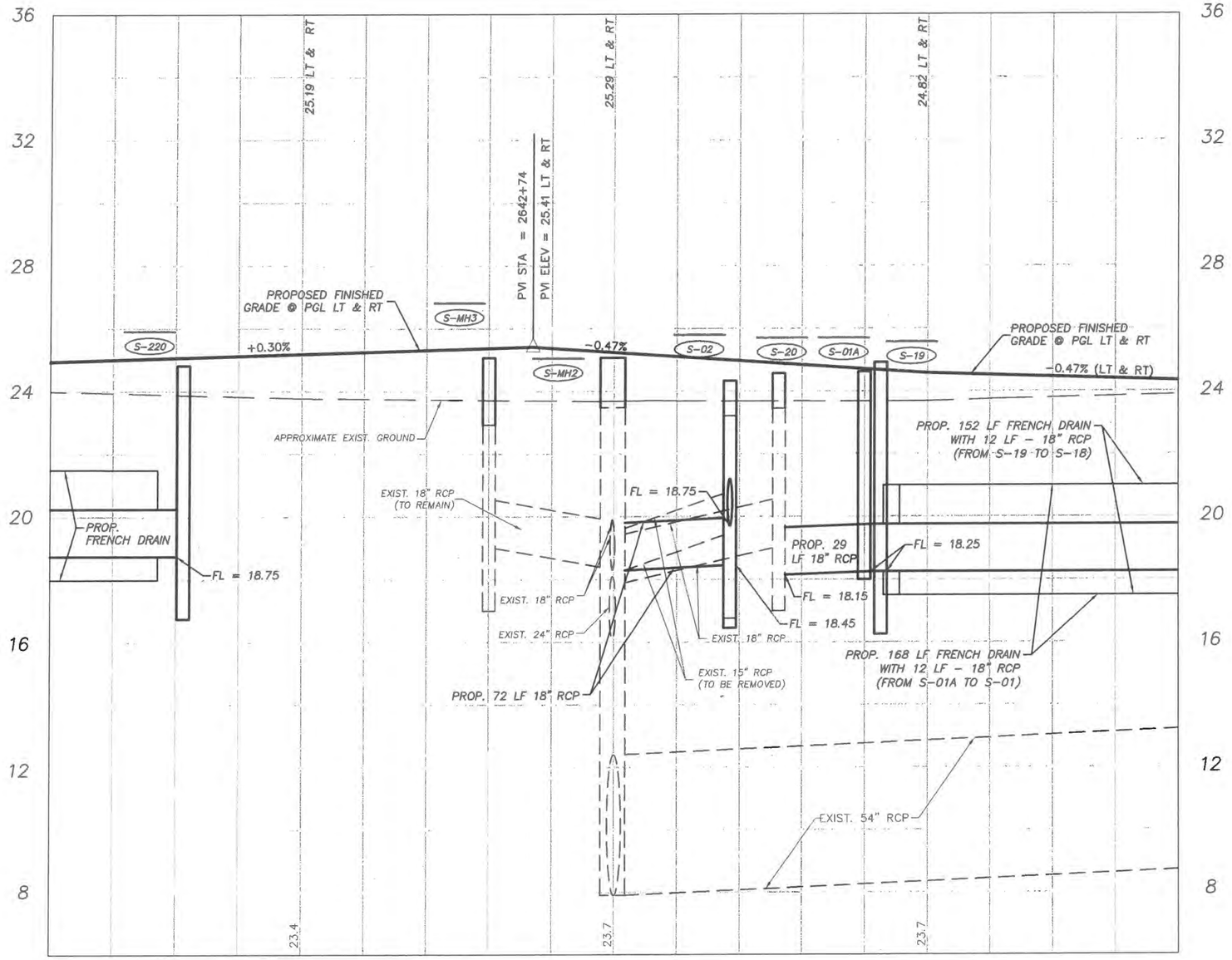

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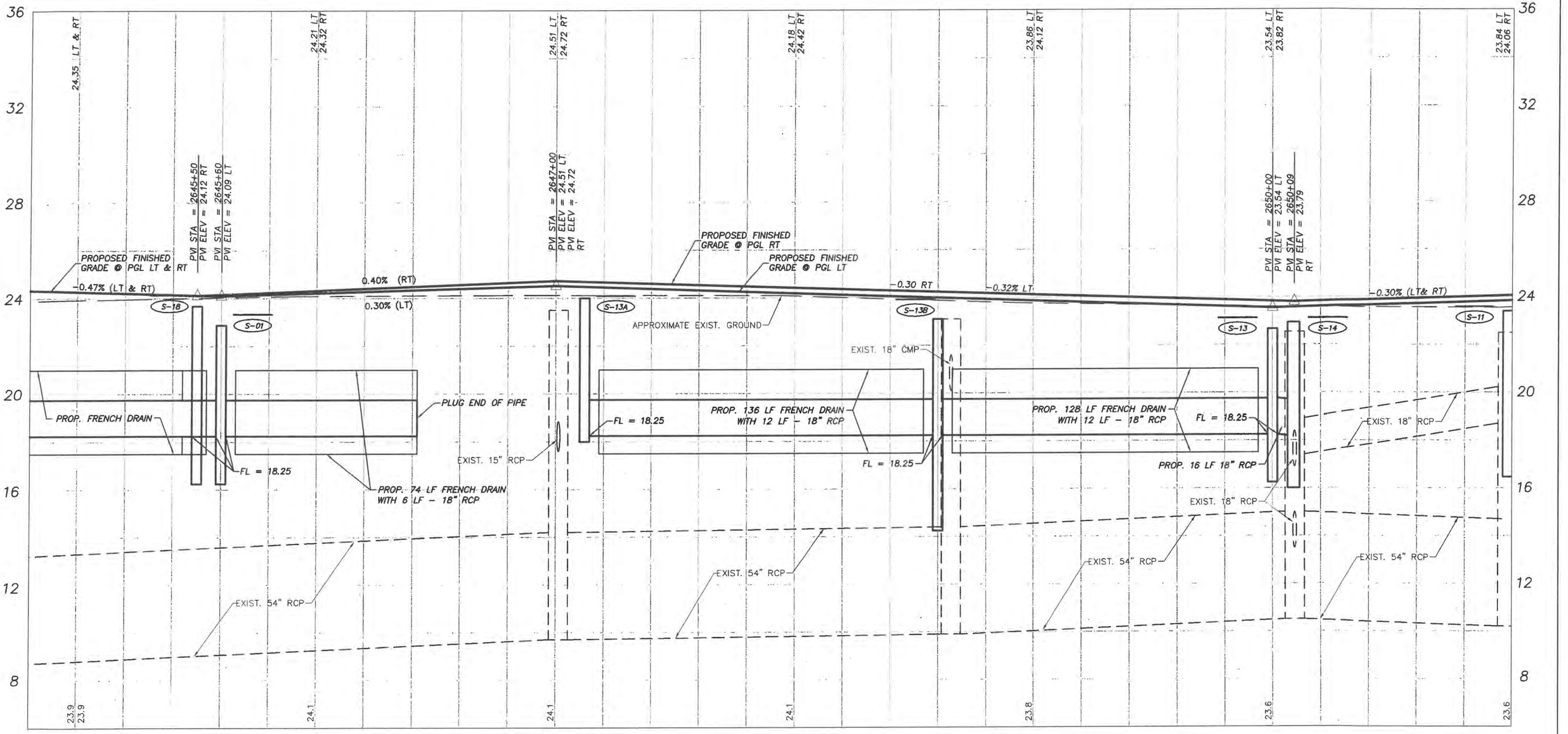

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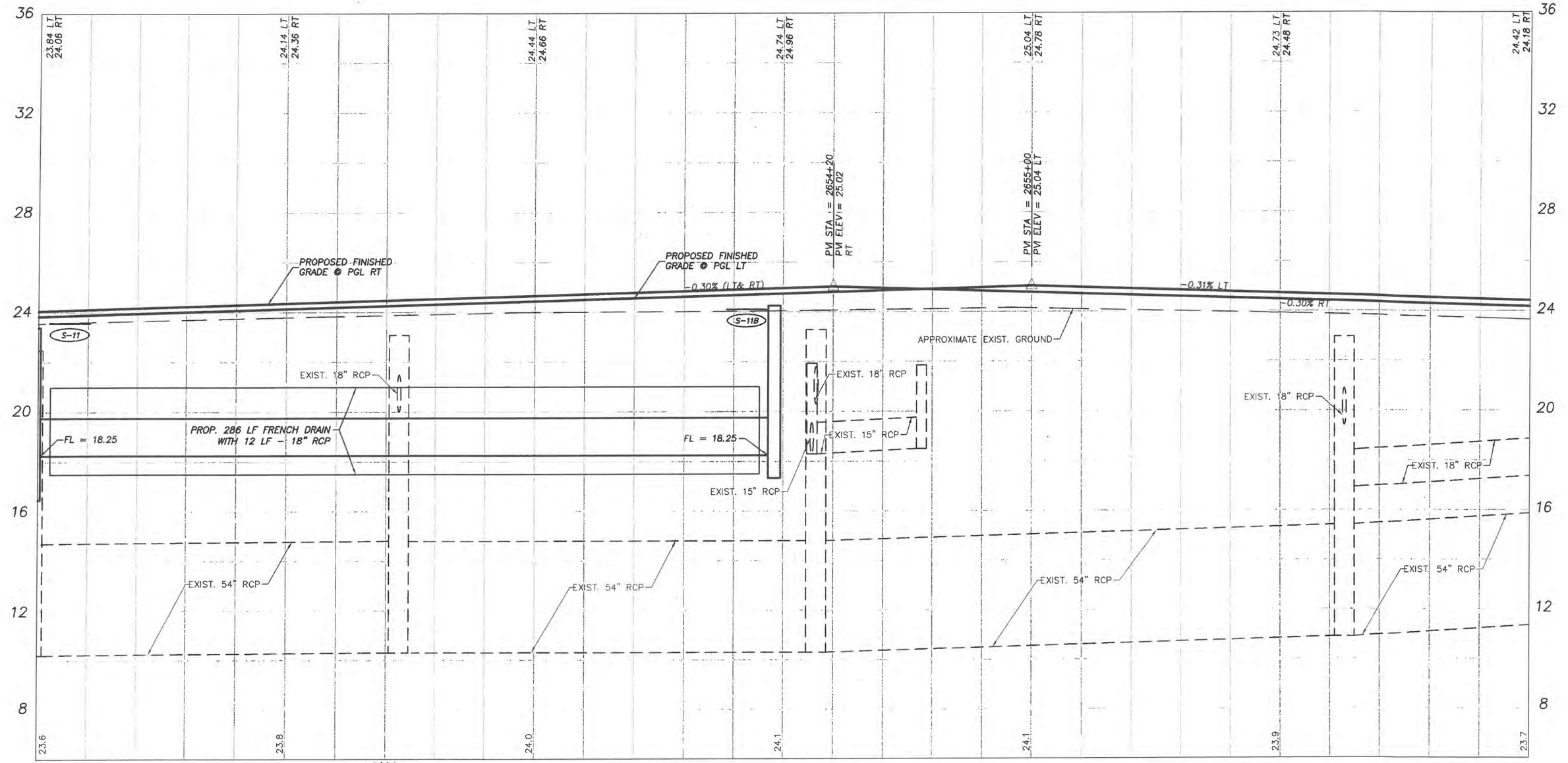

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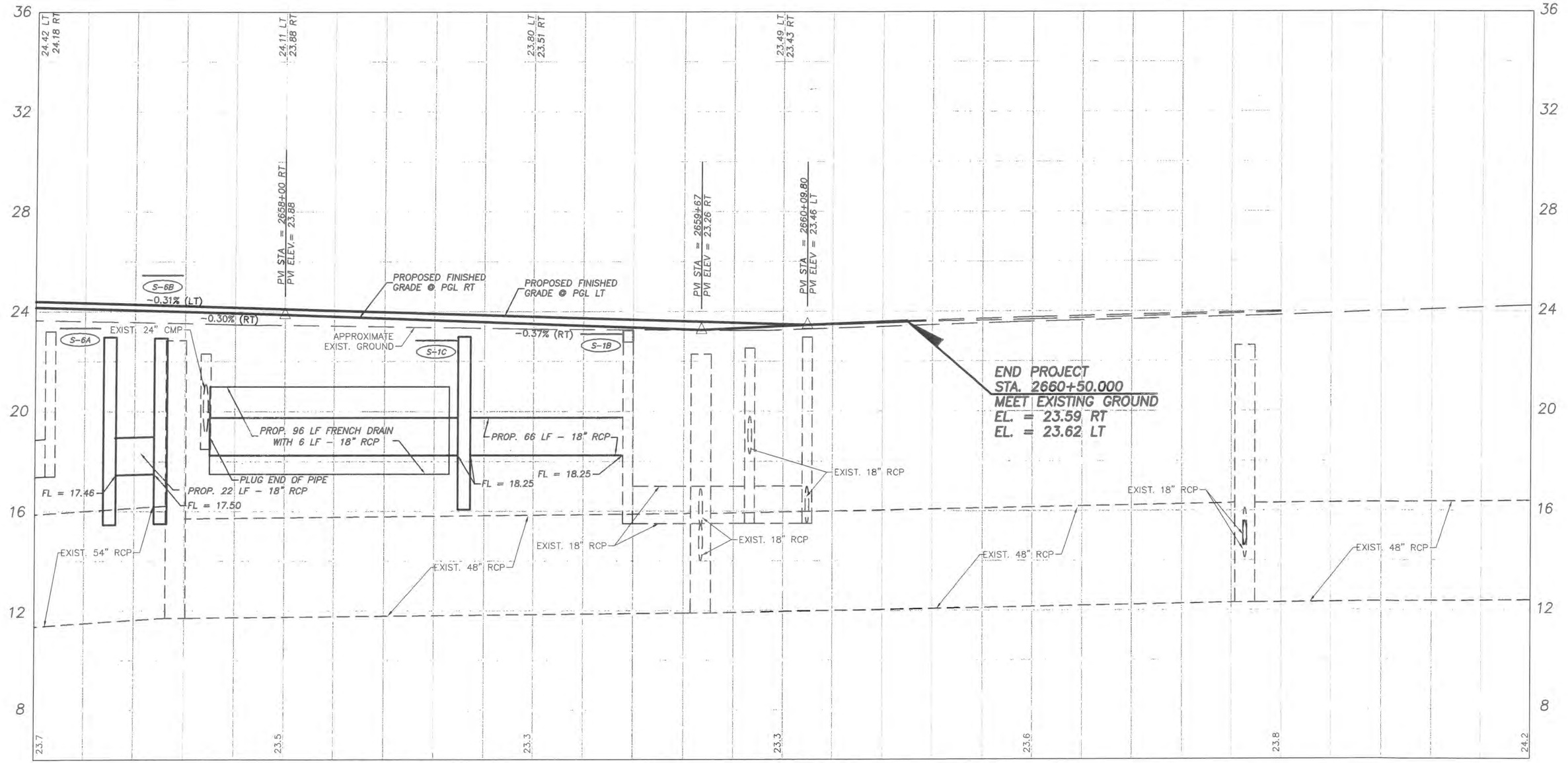
LNW# WP1027



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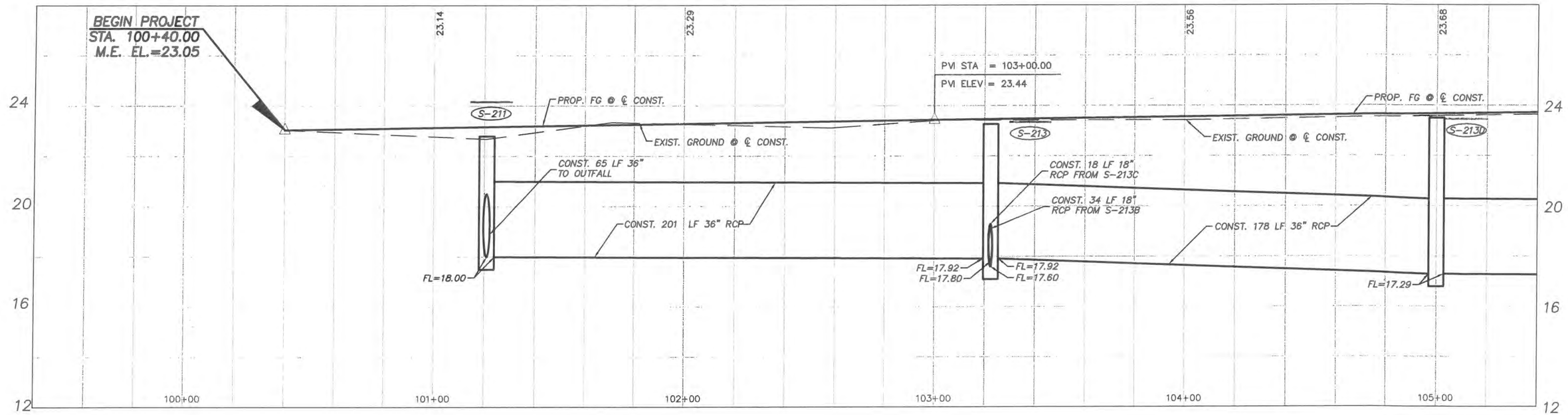

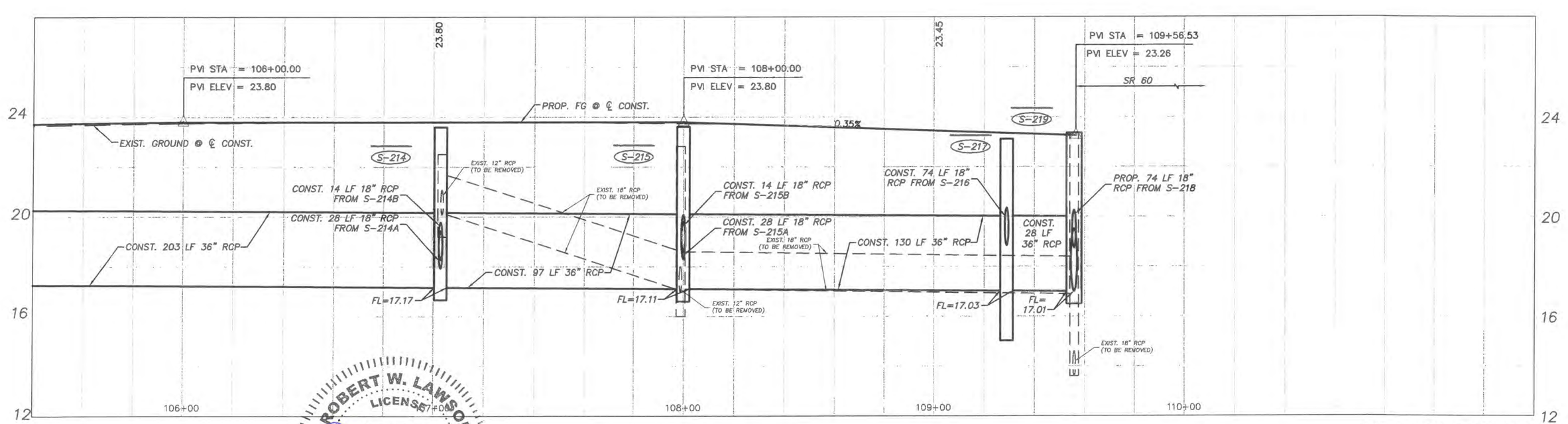

44TH. AVENUE PROFILE

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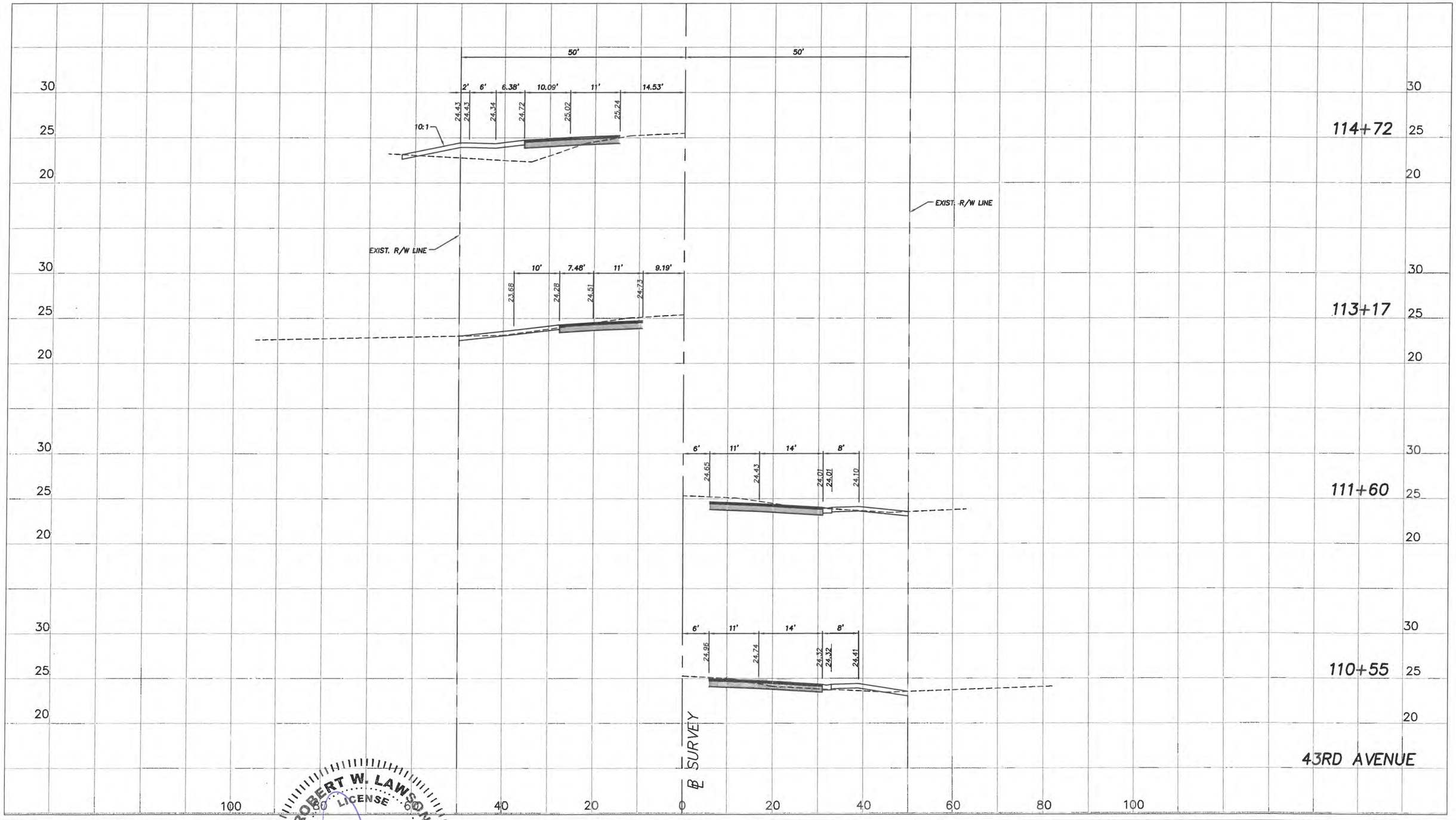

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Field Book No:

Project:
DRIVEWAY PROFILES
FOR
SR 60 & 43RD AVENUE

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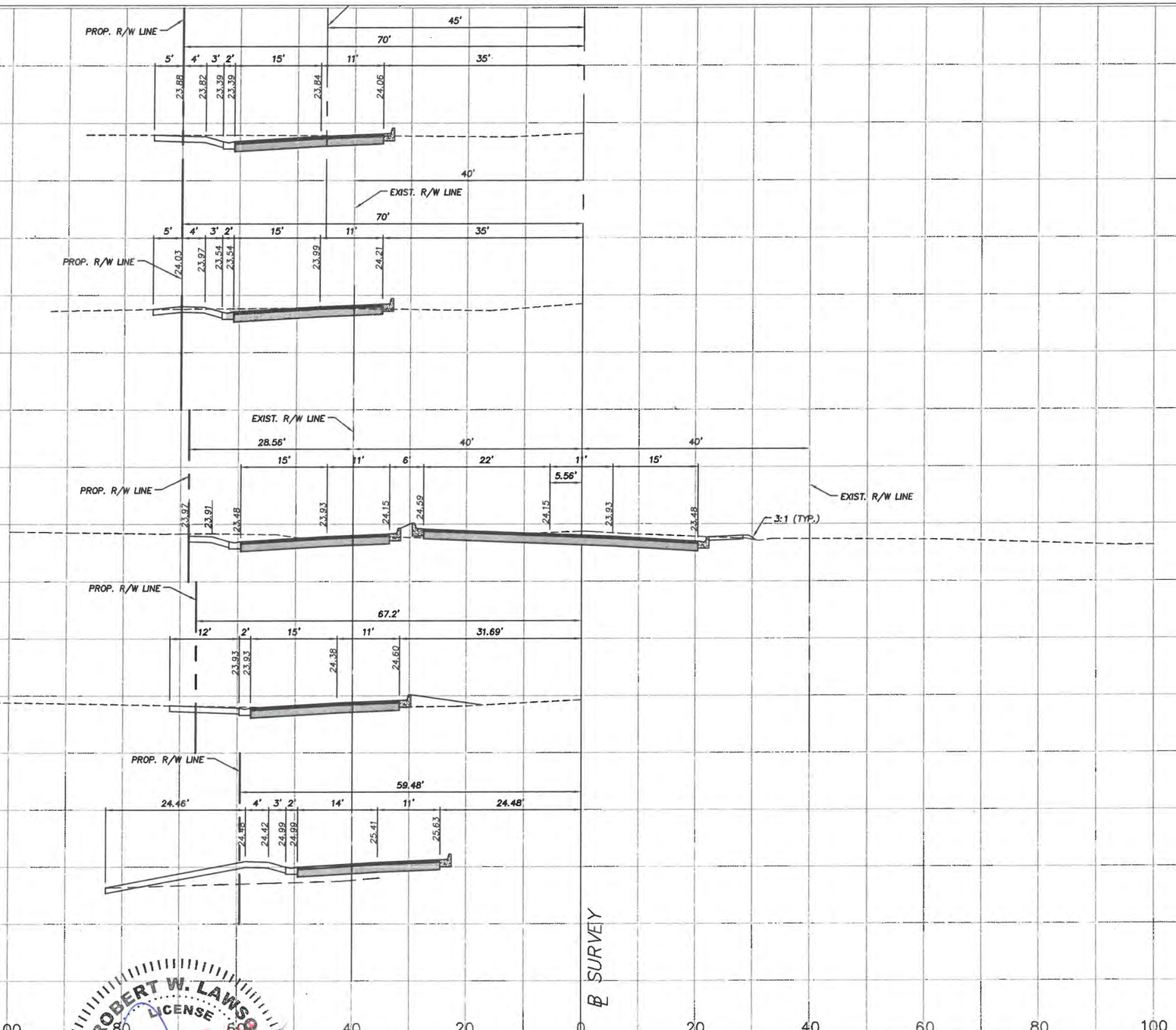

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Project:
DRIVEWAY PROFILES
FOR
SR 60 & 43RD AVENUE

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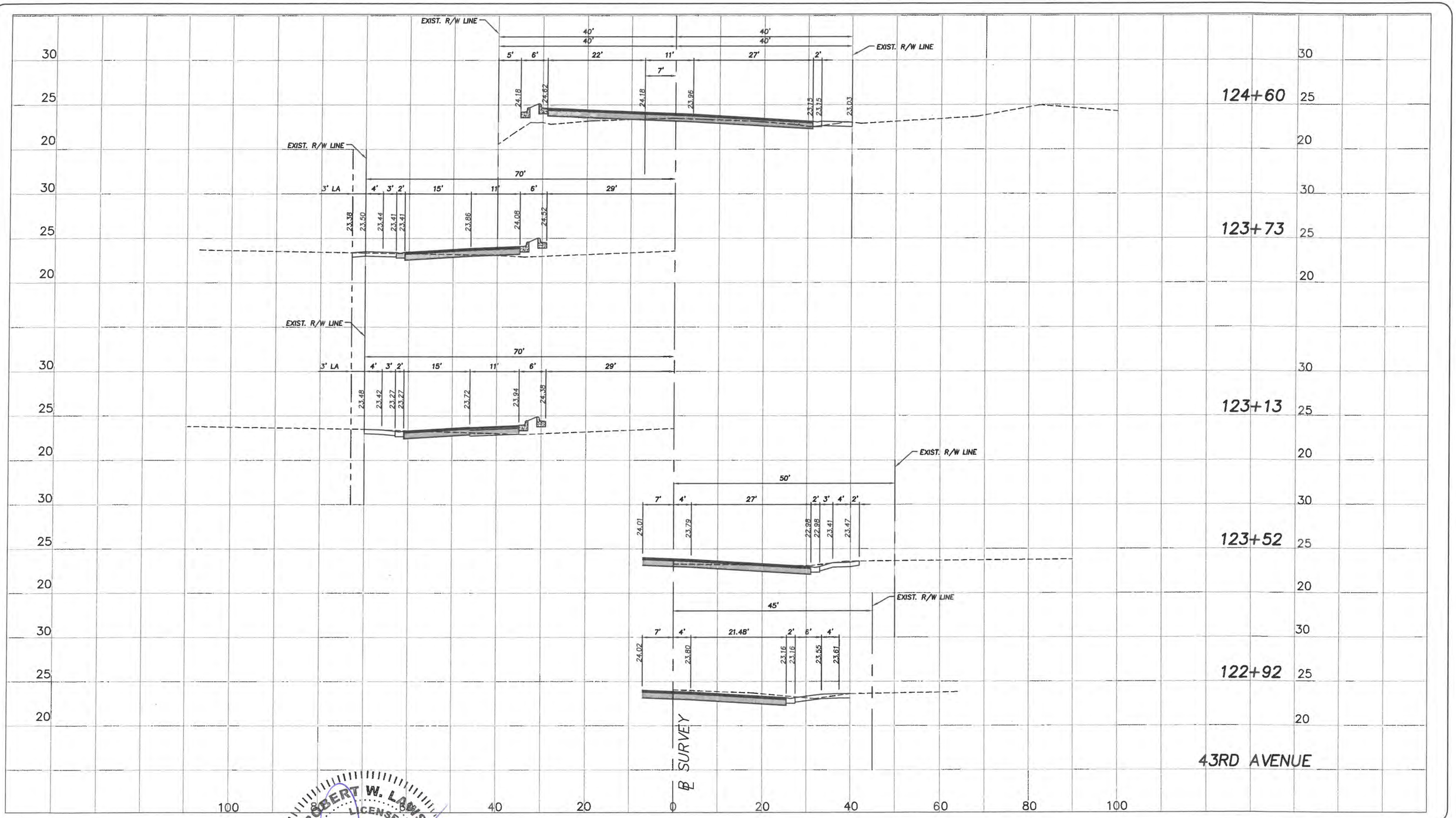

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DRIVEWAY PROFILES
FOR
SR 60 & 43RD AVENUE

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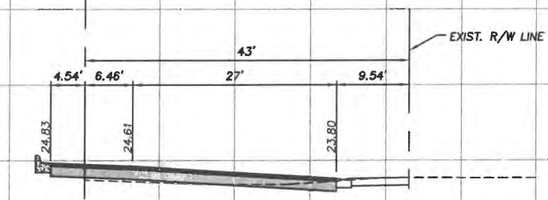
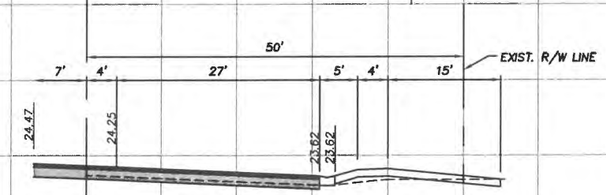
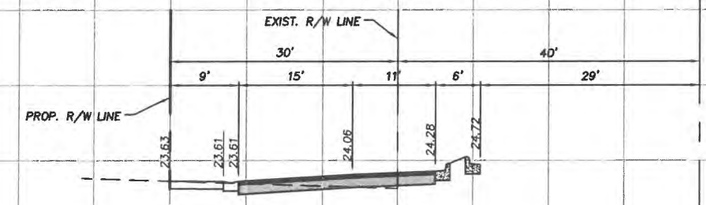
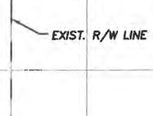
Project No.
LNW# WP1027









133+16

128+11

125+17

124+80

℄ SURVEY

43RD AVENUE

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Of: 99
Project No.
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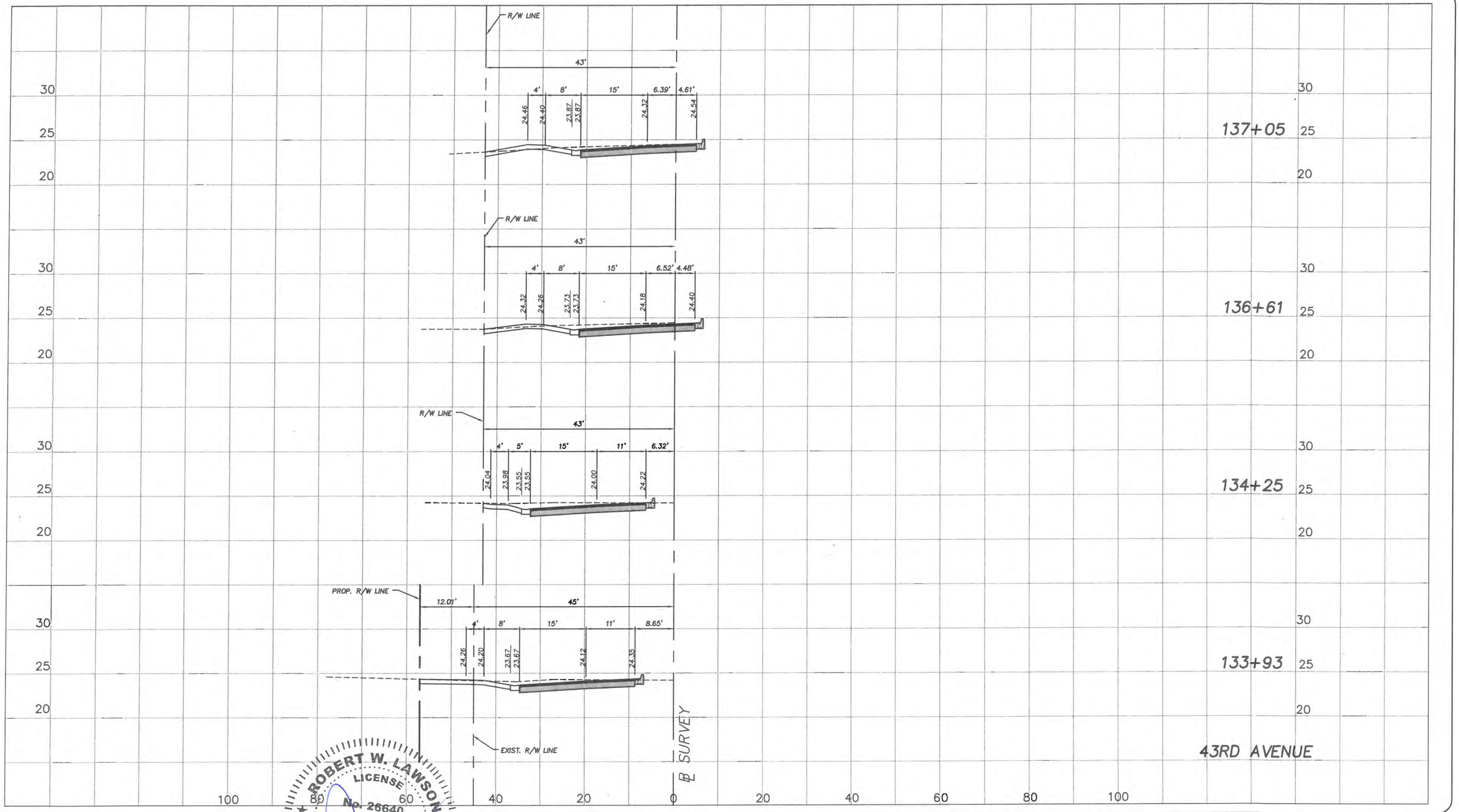

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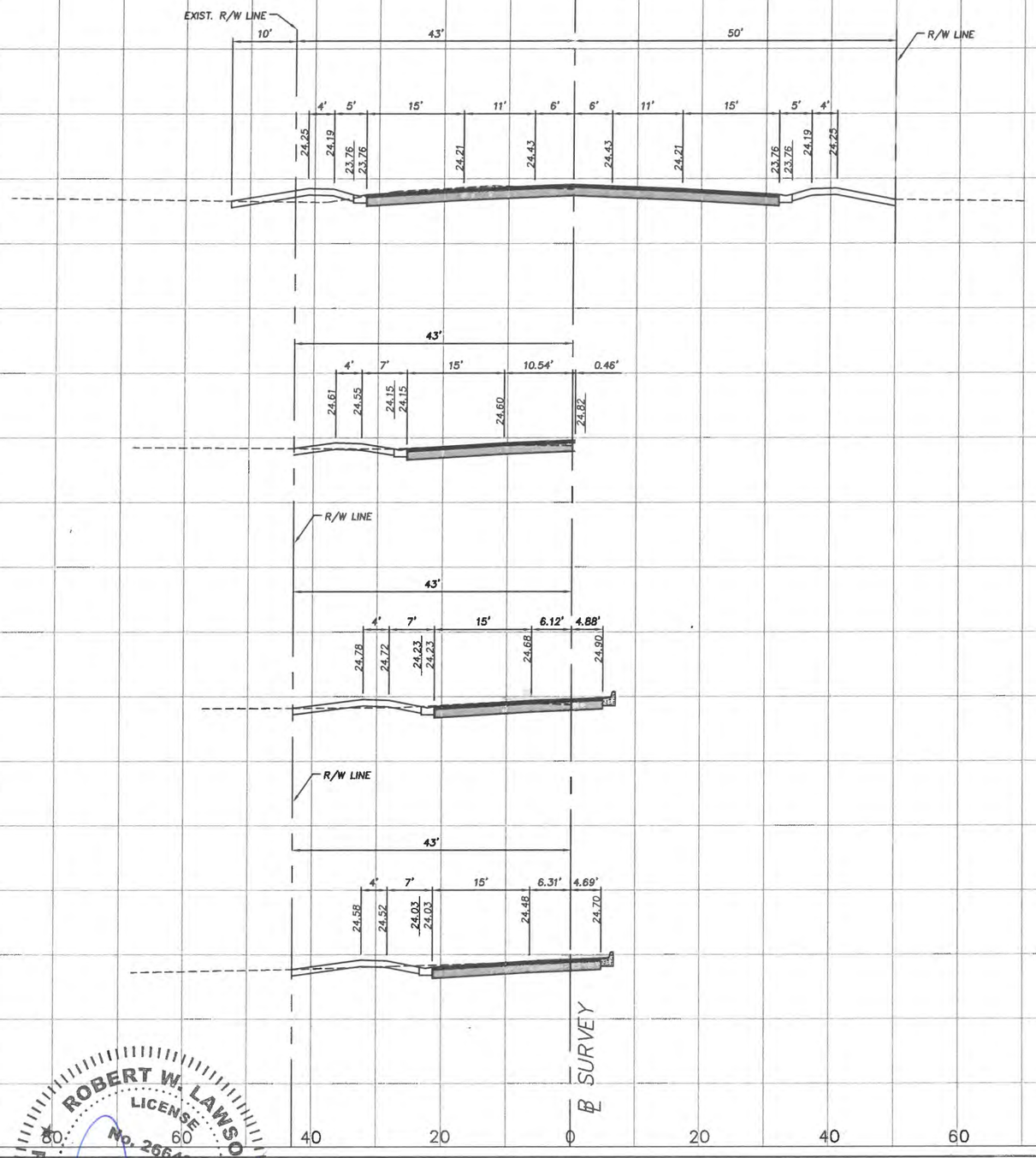

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Project No.
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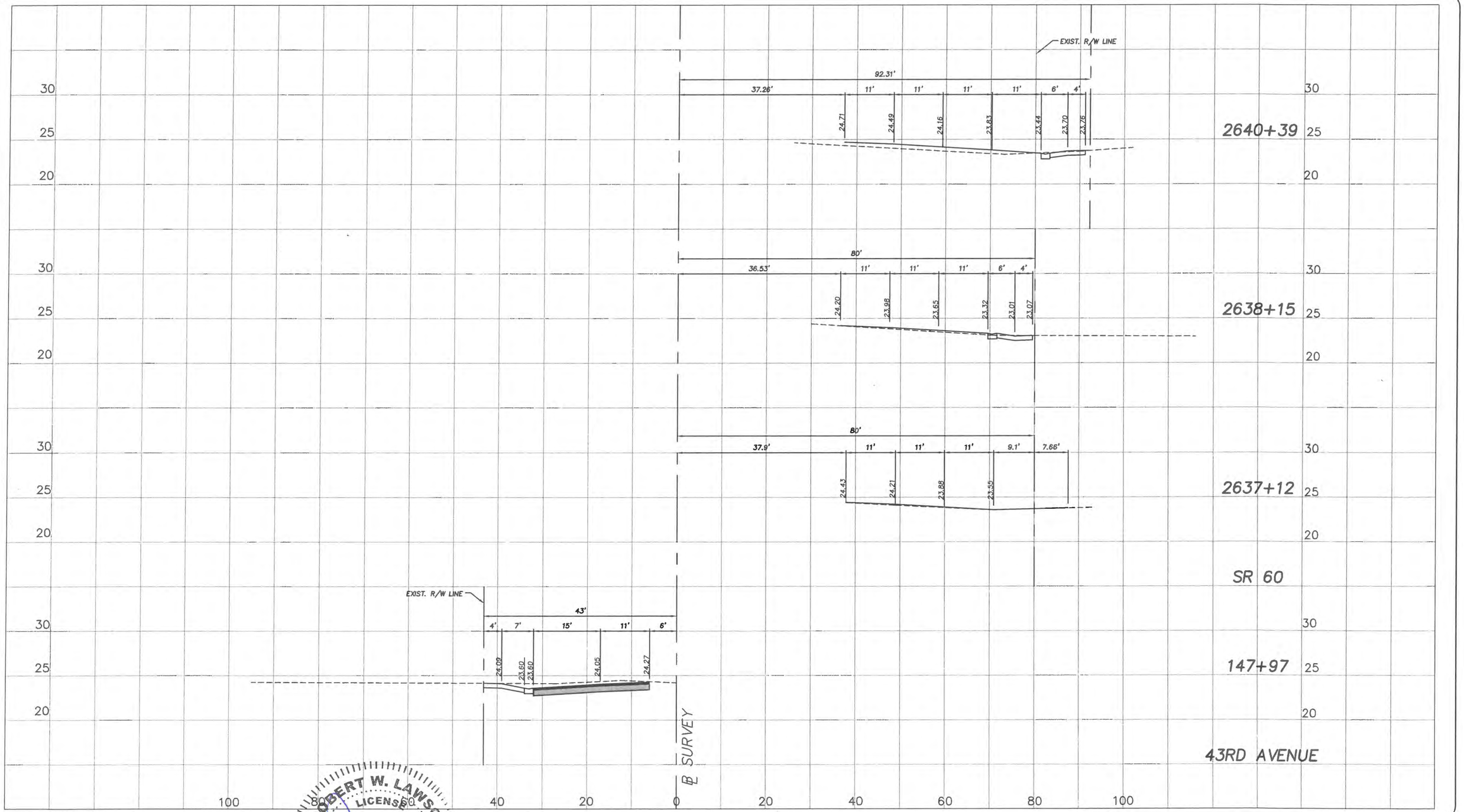

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Project No.
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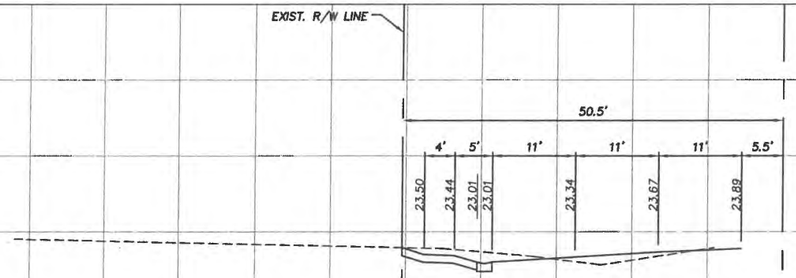

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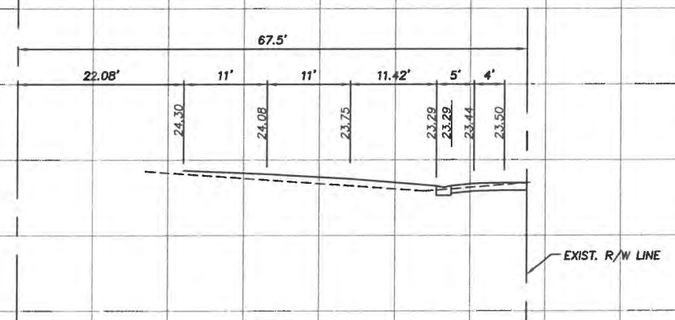

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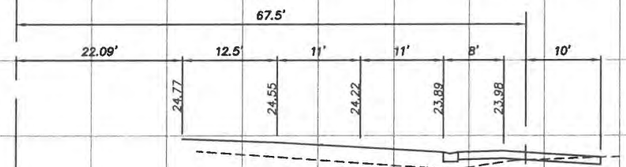

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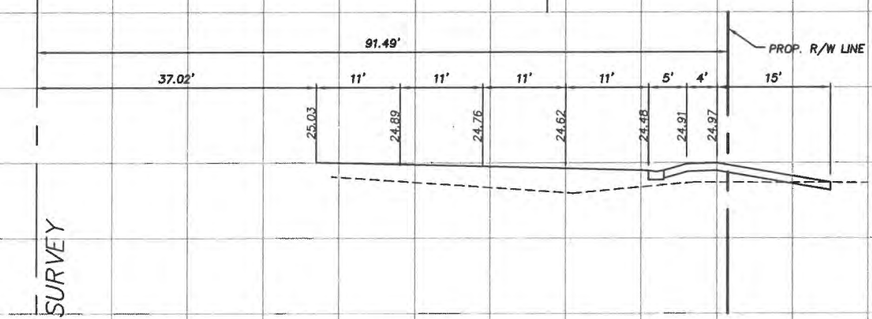

2641+50

SR 60

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30 25 20 30 25 20 30 25 20 30 25 20 30 25 20

100 80 60 40 20 0 20 40 60 80 100

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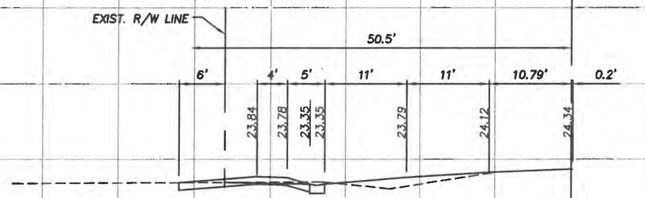

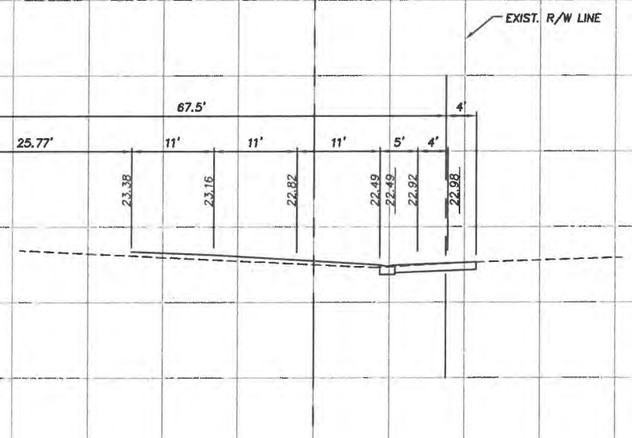

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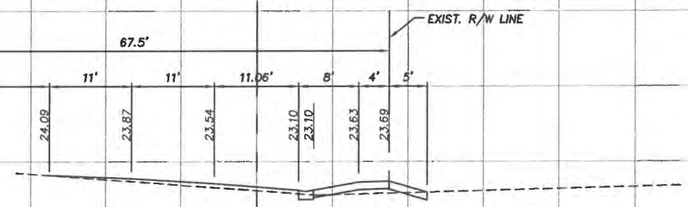

2652+65

2649+10

SR 60

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100 80 60 40 20 0 20 40 60 80 100

30 25 20

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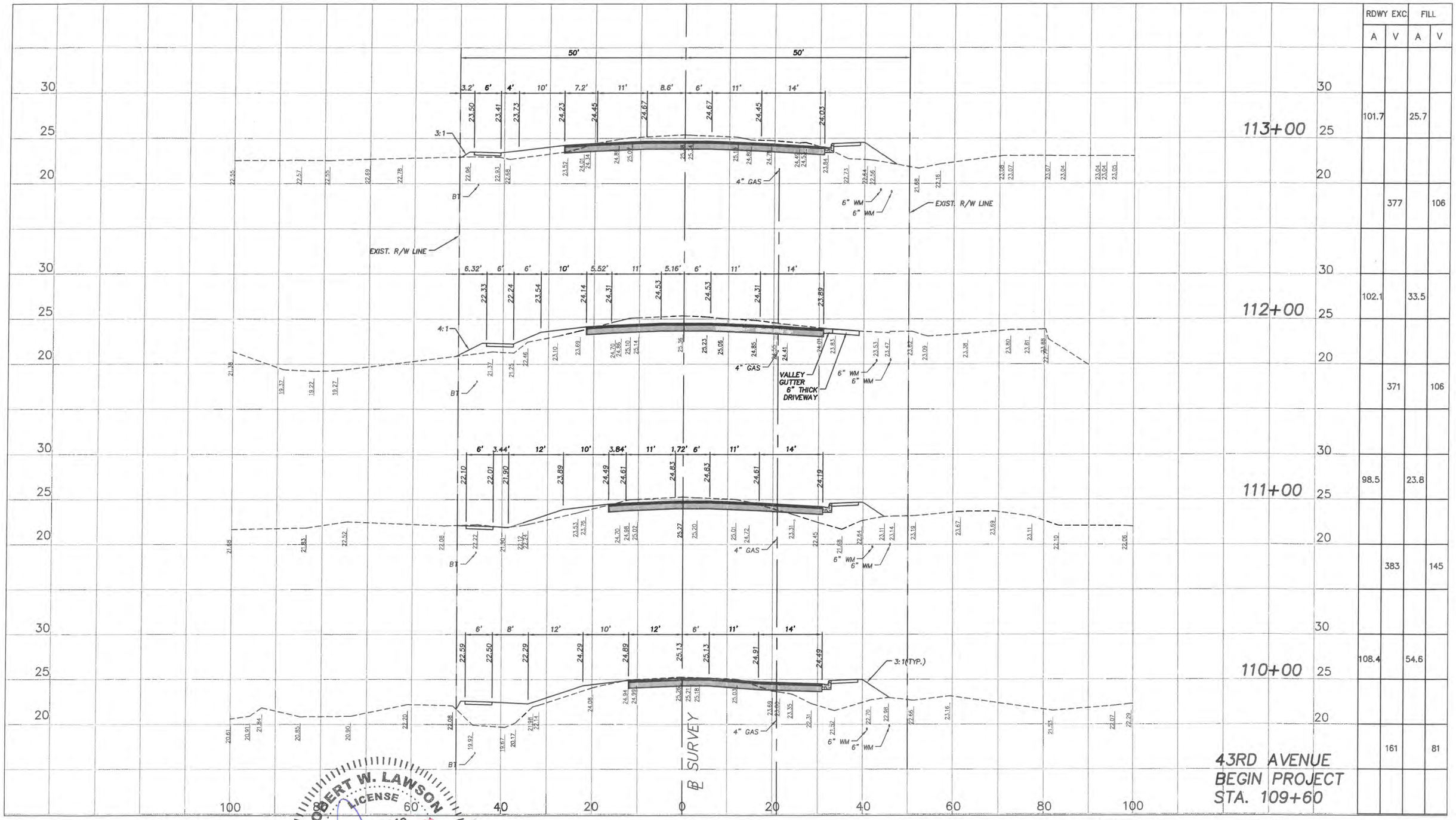
LNW# WP1027



RDWY EXC.		FILL	
A	V	A	V
101.7		25.7	
	377		106
102.1		33.5	
	371		106
98.5		23.8	
	383		145
108.4		54.6	
	161		81

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No:	Revision:	By:	Date:

Department of Public Works
Engineering Division

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

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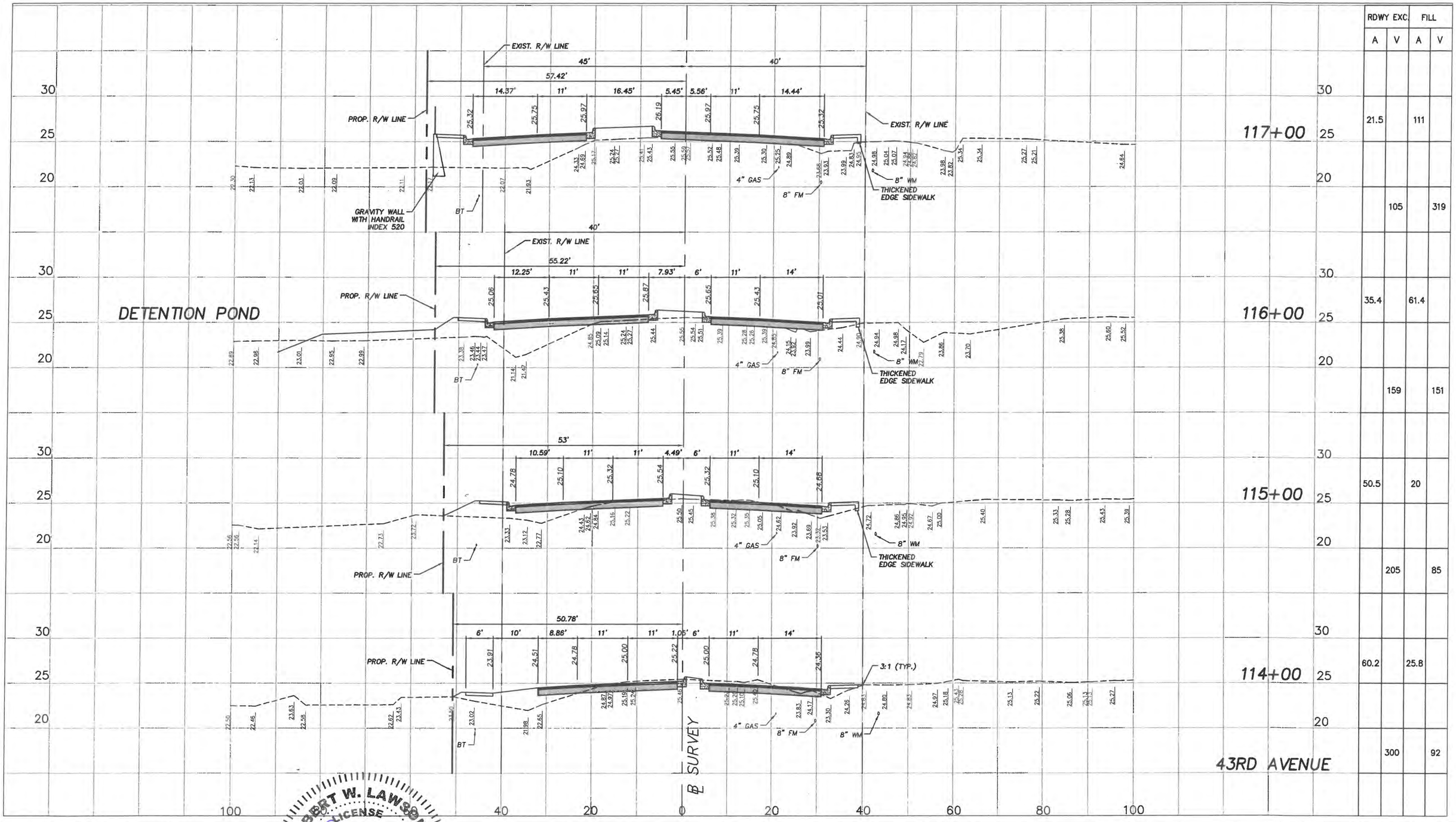

RDWY EXC.		FILL	
A	V	A	V
21.5		111	
	105		319
35.4		61.4	
	159		151
50.5		20	
	205		85
60.2		25.8	
	300		92

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DEC 17 2018

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Engineering Division
INDIAN RIVER COUNTY FLORIDA

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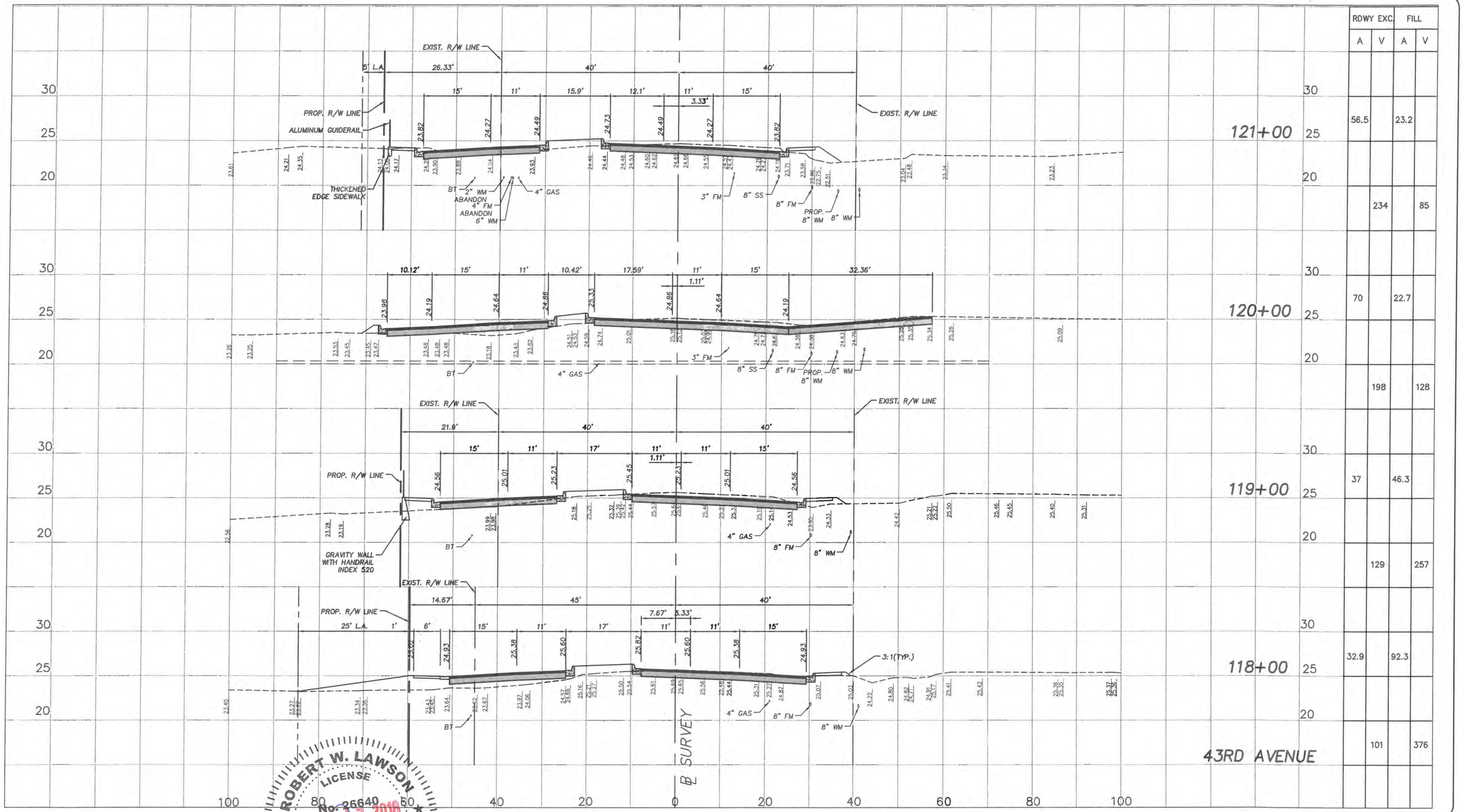

RDWY EXC.		FILL	
A	V	A	V
56.5		23.2	
	234		85
70		22.7	
	198		128
37		46.3	
	129		257
32.9		92.3	
	101		376

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DEC 17 2018

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Department of Public Works
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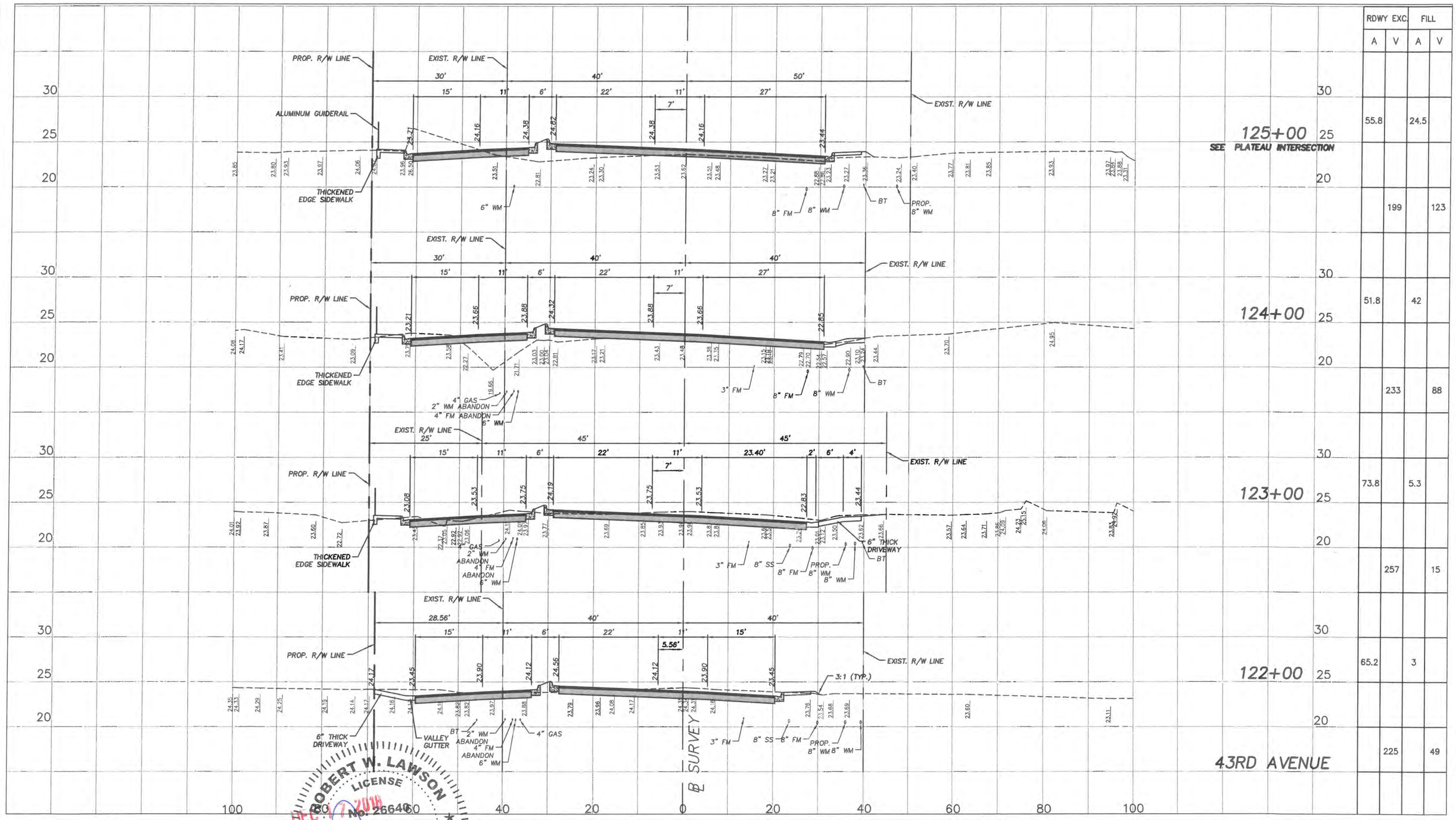

RDWY EXC.		FILL	
A	V	A	V
55.8		24.5	
	199		123
51.8		42	
	233		88
73.8		5.3	
	257		15
65.2		3	
	225		49

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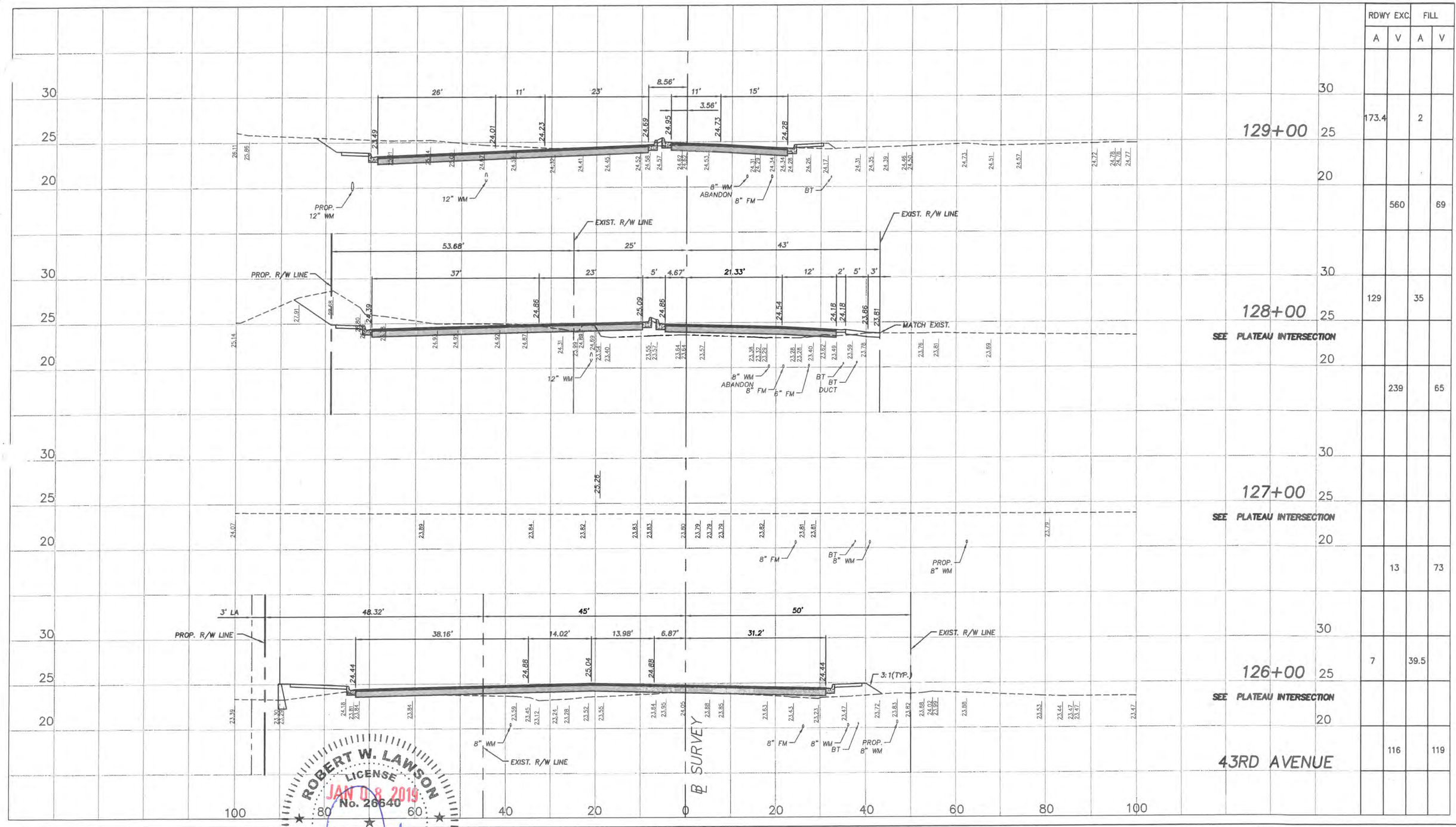

	RDWY EXC.		FILL	
	A	V	A	V
	173.4		2	
		560		69
	129		35	
		239		65
	7		39.5	
		13		73
		116		119

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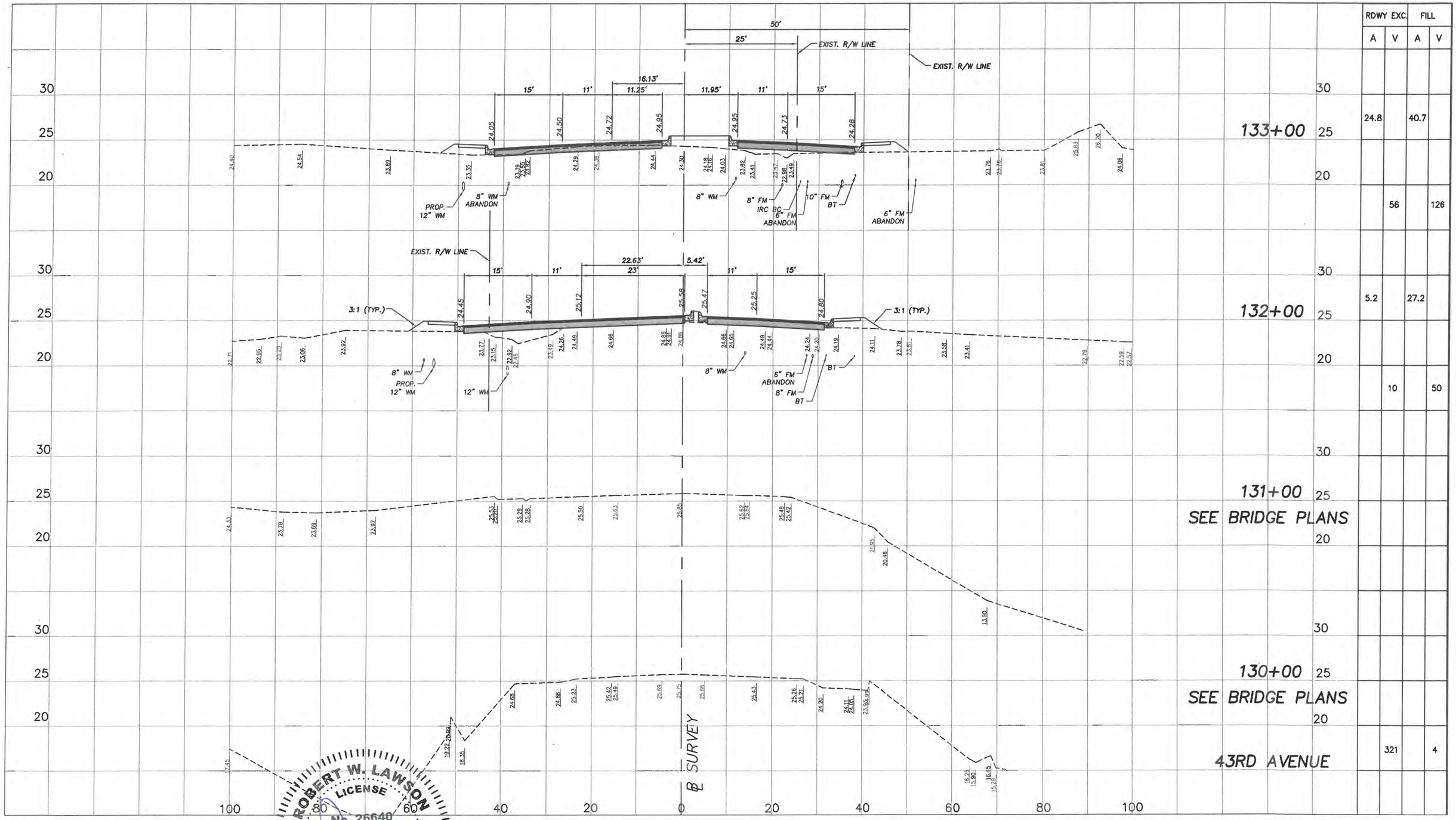

RDWY EXC.		FILL	
A	V	A	V
24.8		40.7	
	56		126
5.2		27.2	
	10		50
	321		4

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CROSS SECTIONS
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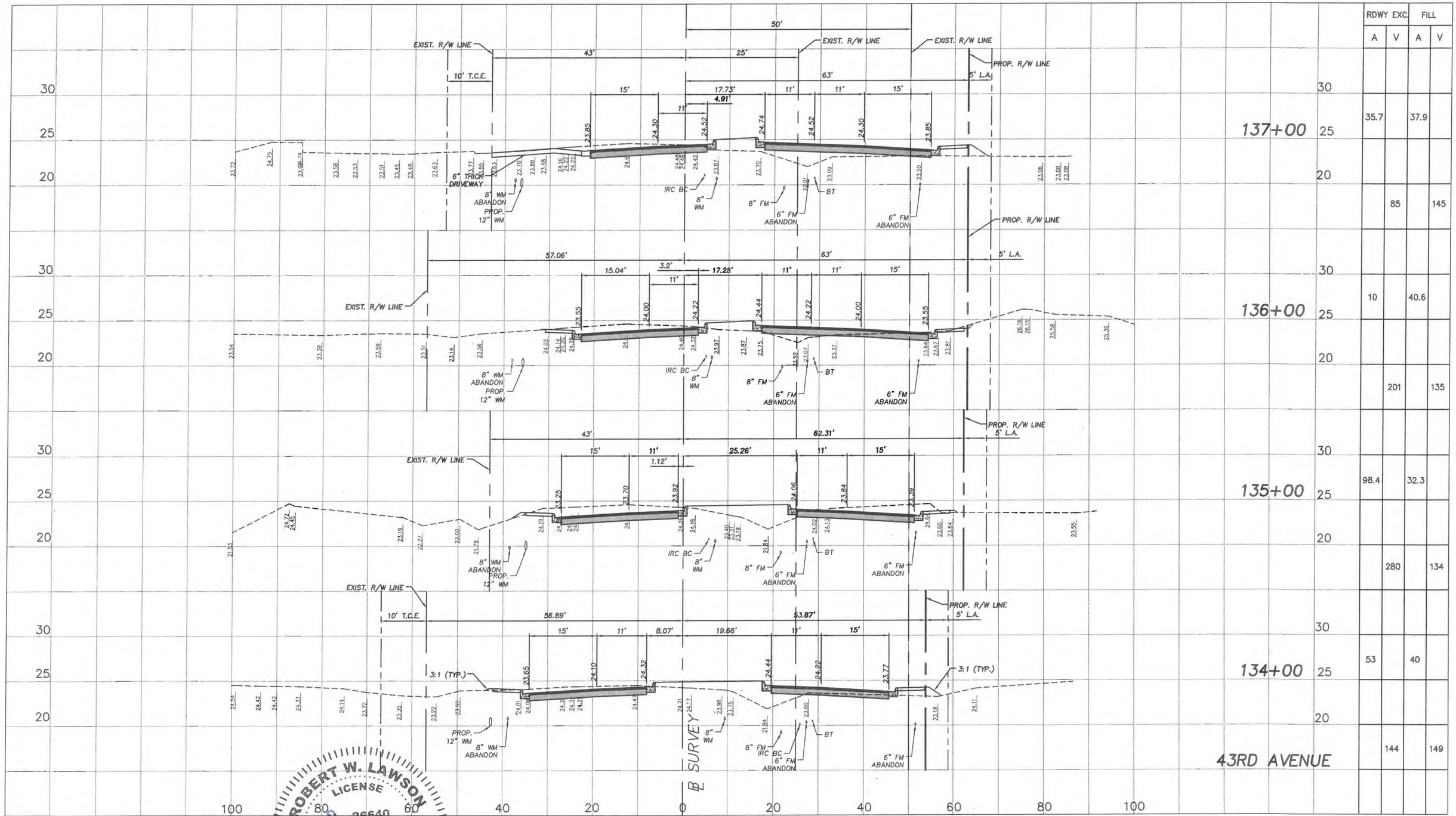
LNW# WP1027



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

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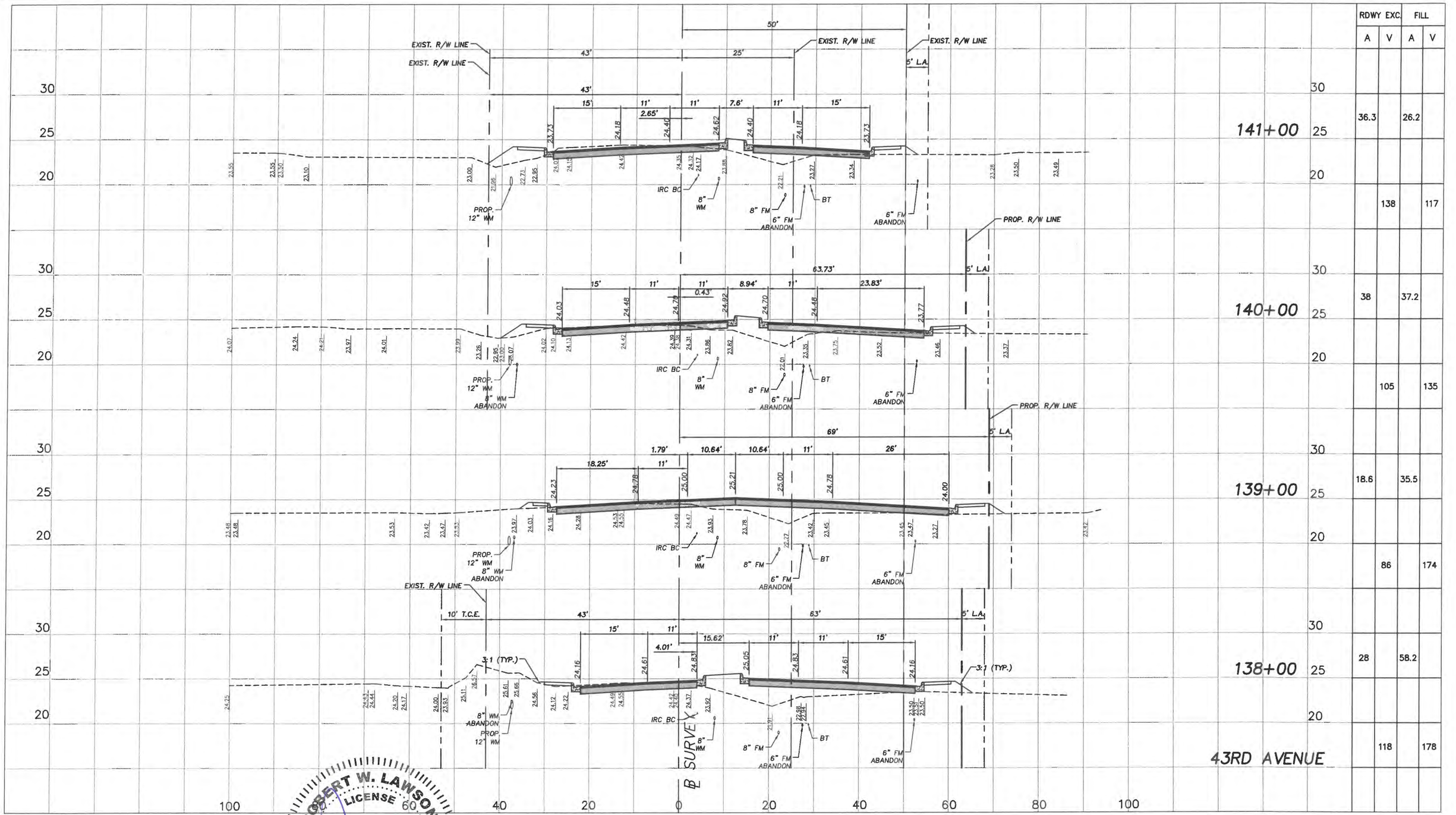
LNW# WP1027



	RDWY EXC.		FILL	
	A	V	A	V
141+00	36.3		26.2	
		138		117
140+00	38		37.2	
		105		135
139+00	18.6		35.5	
		86		174
138+00	28		58.2	
		118		178

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No.	Revision:	By:	Date:

Department of Public Works
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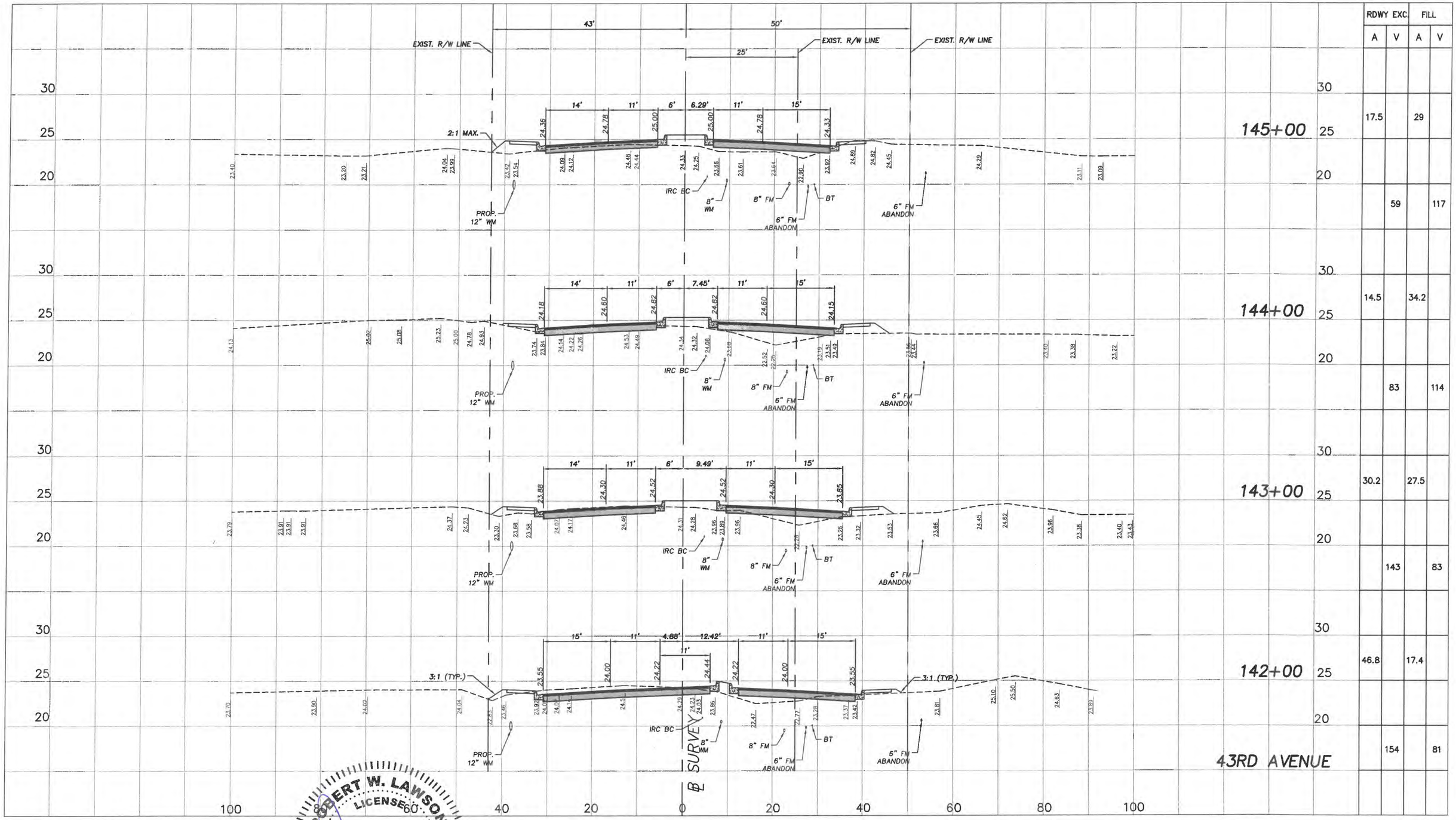
LNW# WP1027



	RDWY EXC.		FILL	
	A	V	A	V
145+00	17.5		29	
		59		117
144+00	14.5		34.2	
		83		114
143+00	30.2		27.5	
		143		83
142+00	46.8		17.4	
		154		81

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DEC 17 2016

No.	Revision:	By:	Date:

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INDIAN RIVER COUNTY FLORIDA

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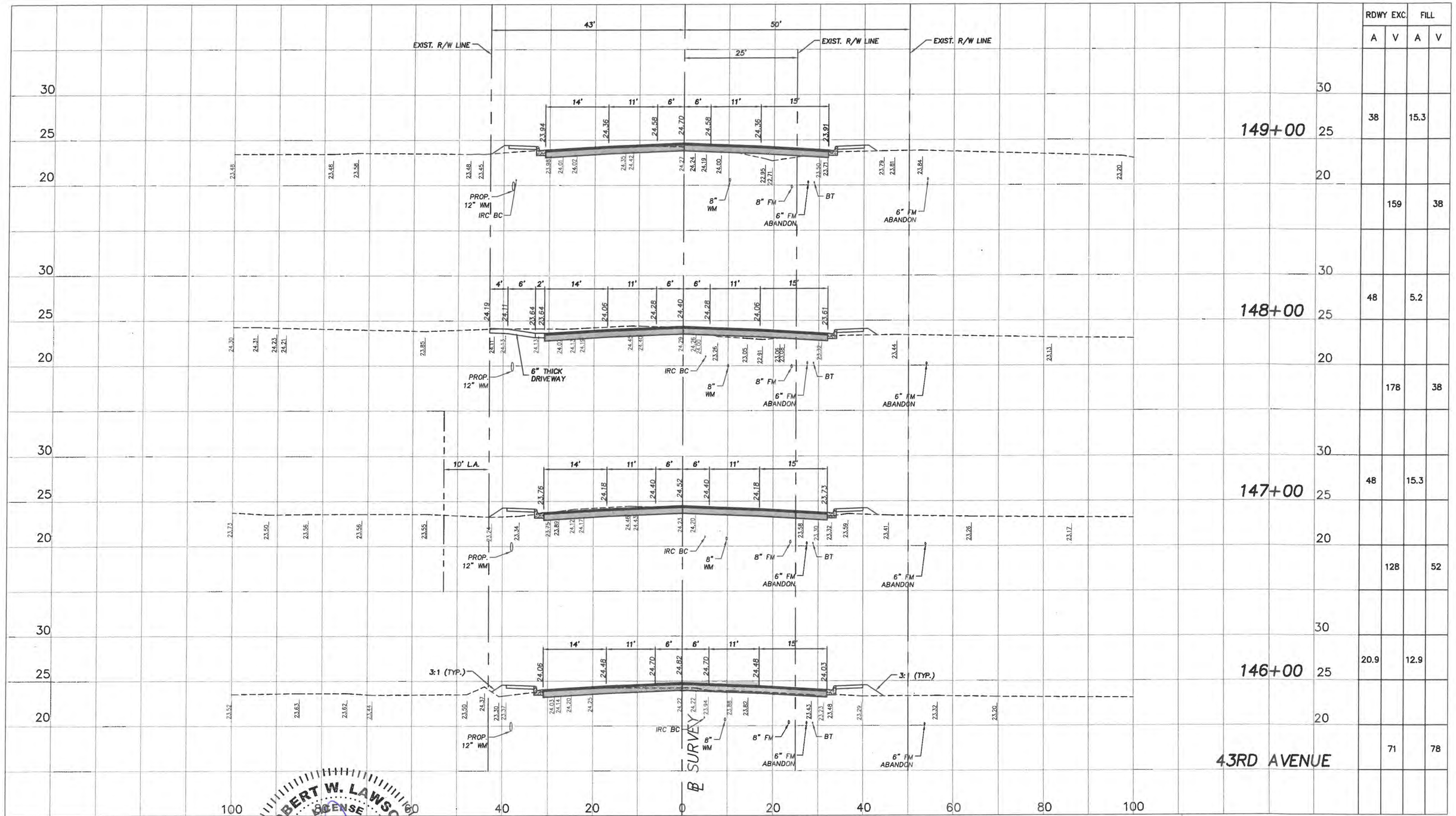

	RDWY EXC.		FILL	
	A	V	A	V
149+00	38		15.3	
		159		38
148+00	48		5.2	
		178		38
147+00	48		15.3	
		128		52
146+00	20.9		12.9	
		71		78

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EB7917 / LB7082
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Department of Public Works
Engineering Division
INDIAN RIVER COUNTY FLORIDA

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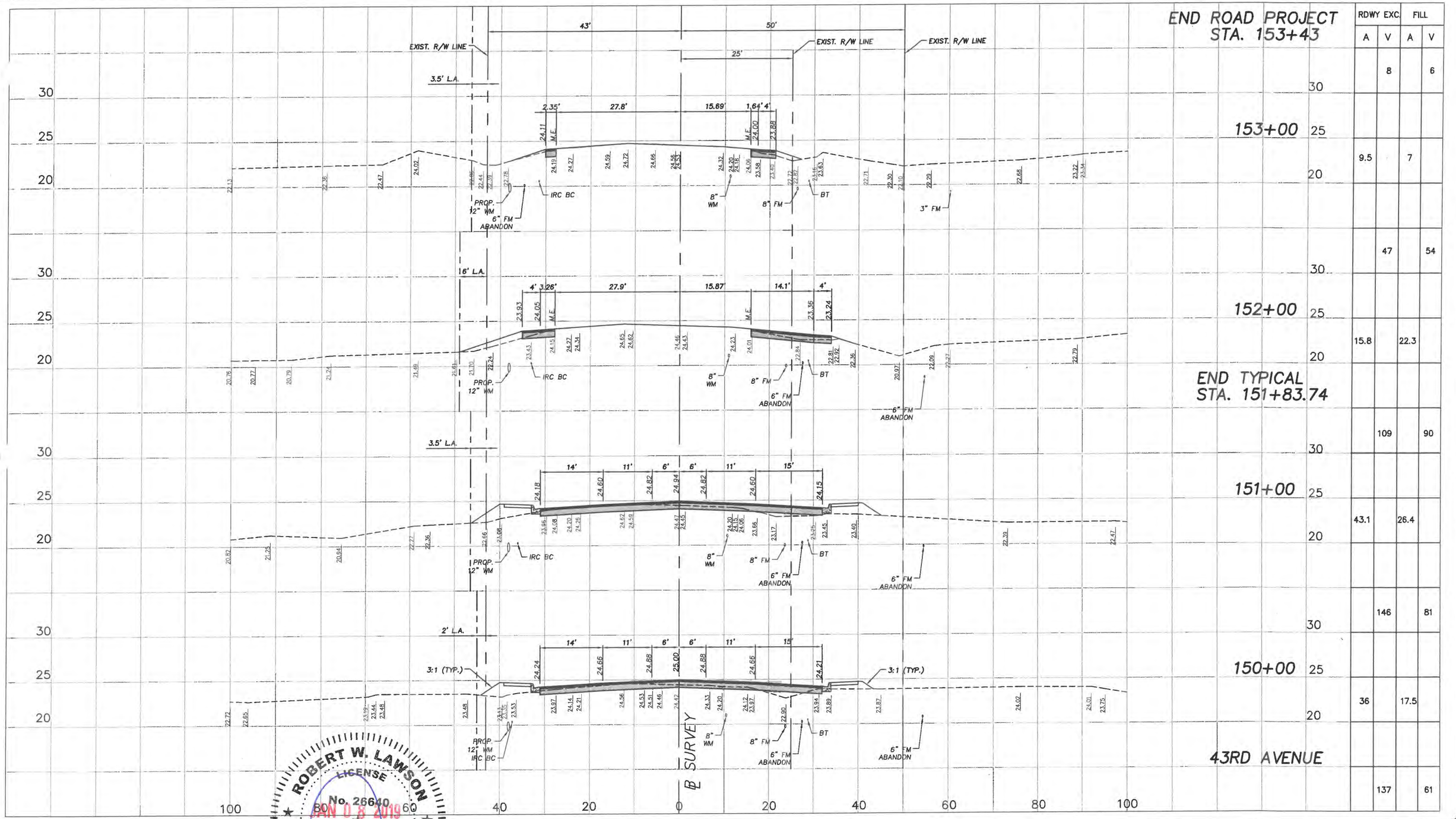

RDWY EXC.		FILL	
A	V	A	V
	8		6
9.5		7	
	47		54
15.8		22.3	
	109		90
43.1		26.4	
	146		81
36		17.5	
	137		61

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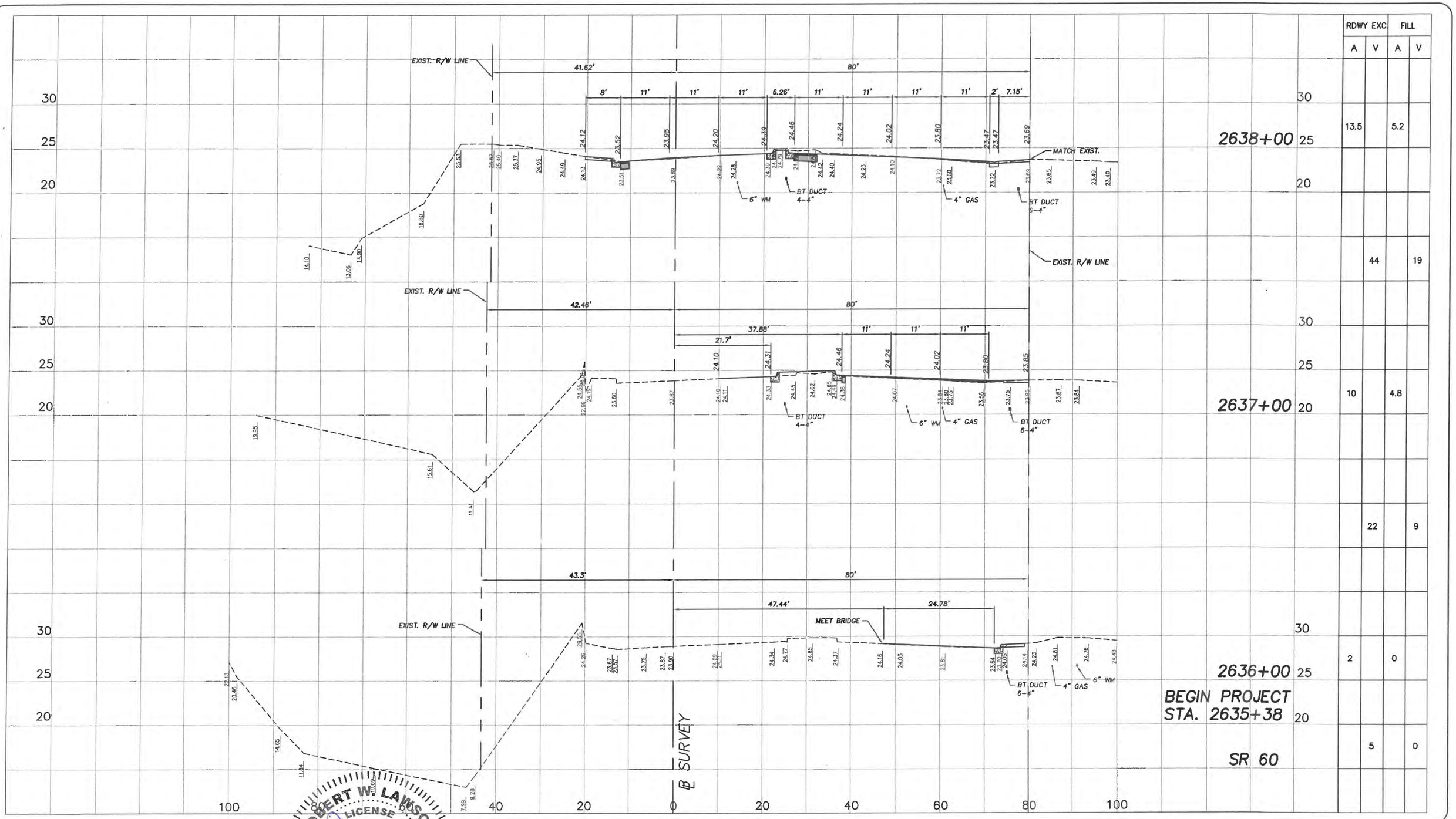

RDWY EXC.		FILL	
A	V	A	V
13.5		5.2	
	44		19
10		4.8	
	22		9
2		0	
	5		0

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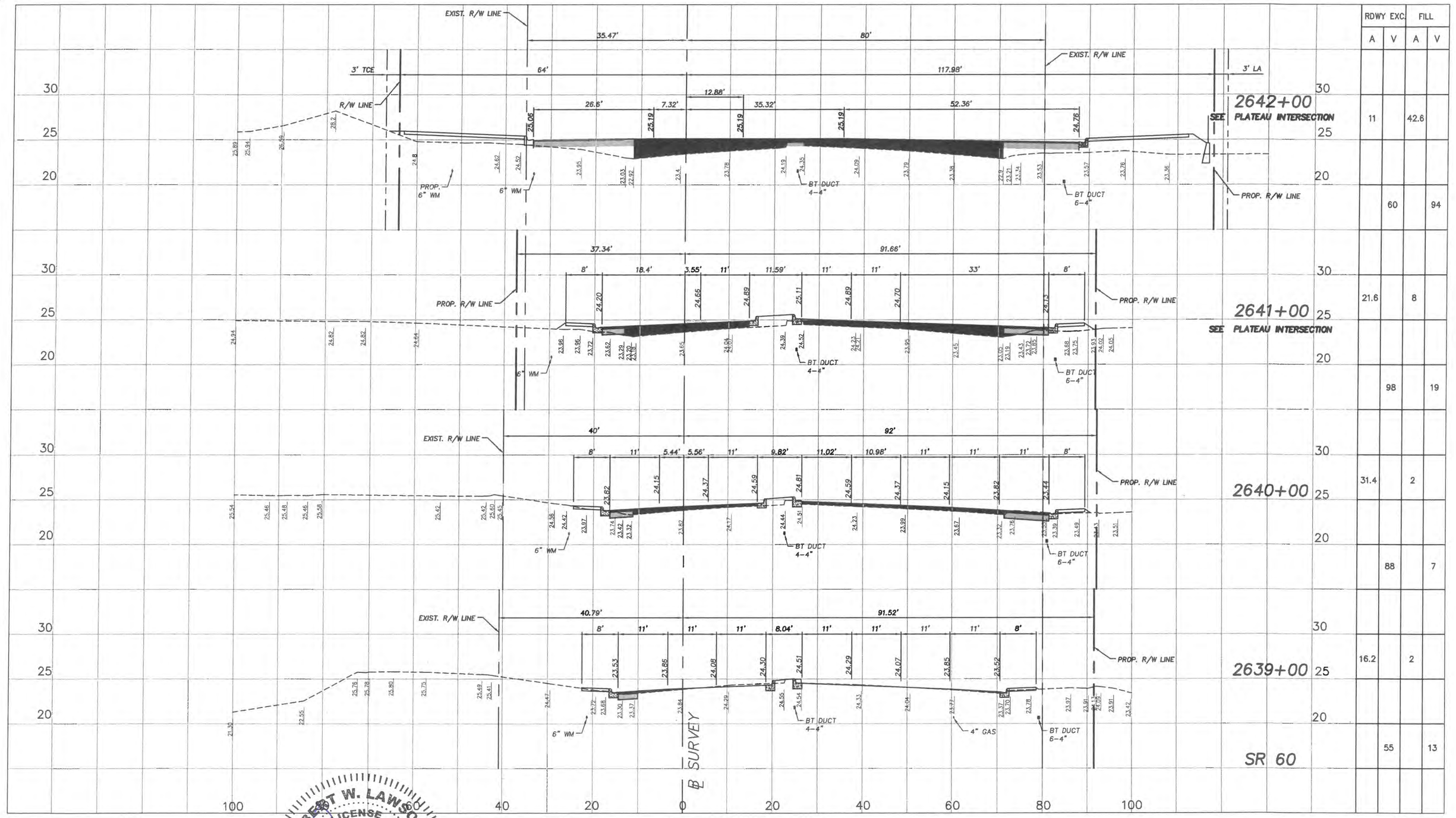

RDWY EXC.		FILL	
A	V	A	V
11		42.6	
	60		94
21.6		8	
	98		19
31.4		2	
	88		7
16.2		2	
	55		13

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Department of Public Works
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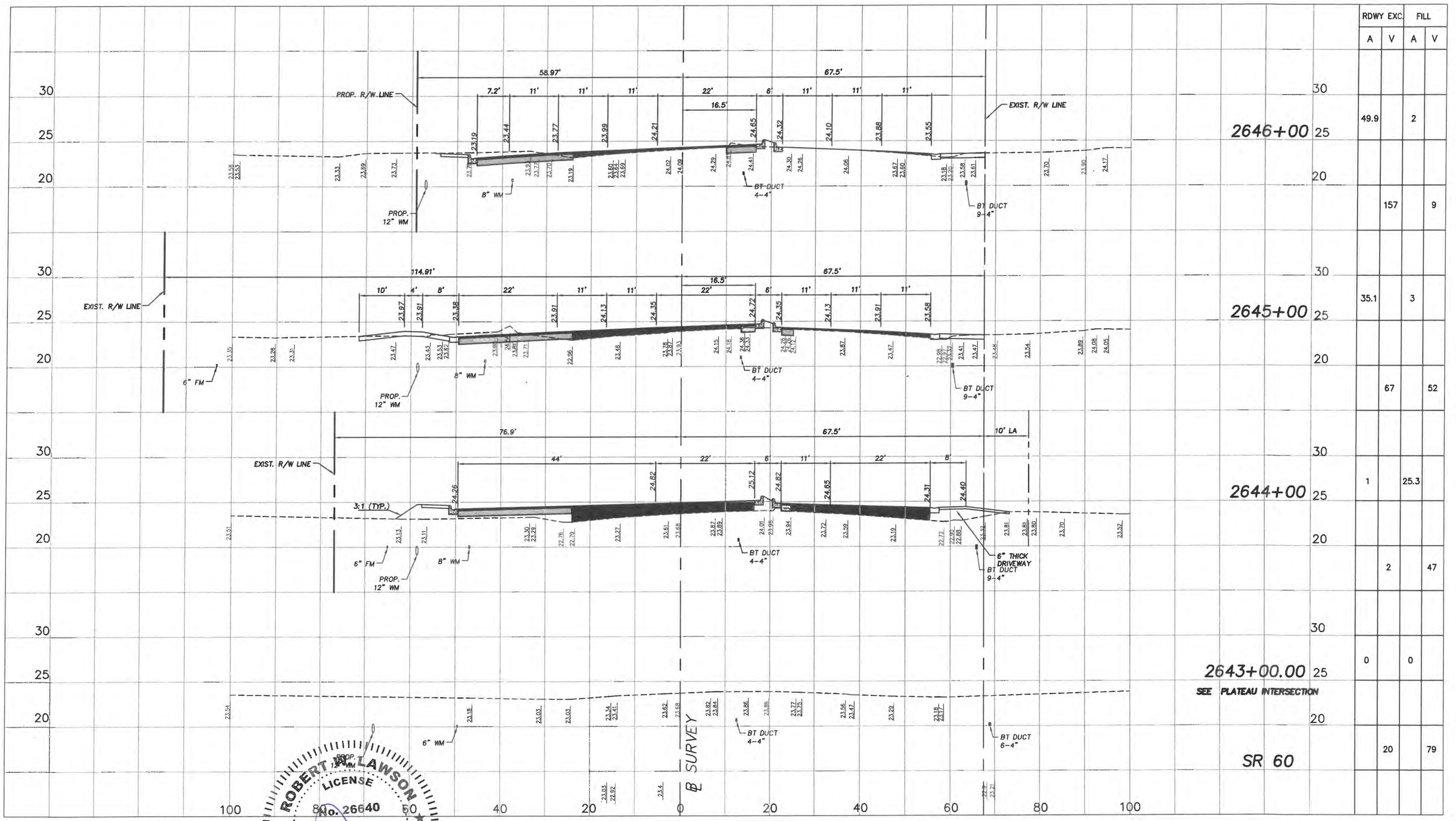

RDWY EXC.		FILL	
A	V	A	V
49.9		2	
	157		9
35.1		3	
	67		52
1		25.3	
	2		47
0		0	
	20		79

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CROSS SECTIONS
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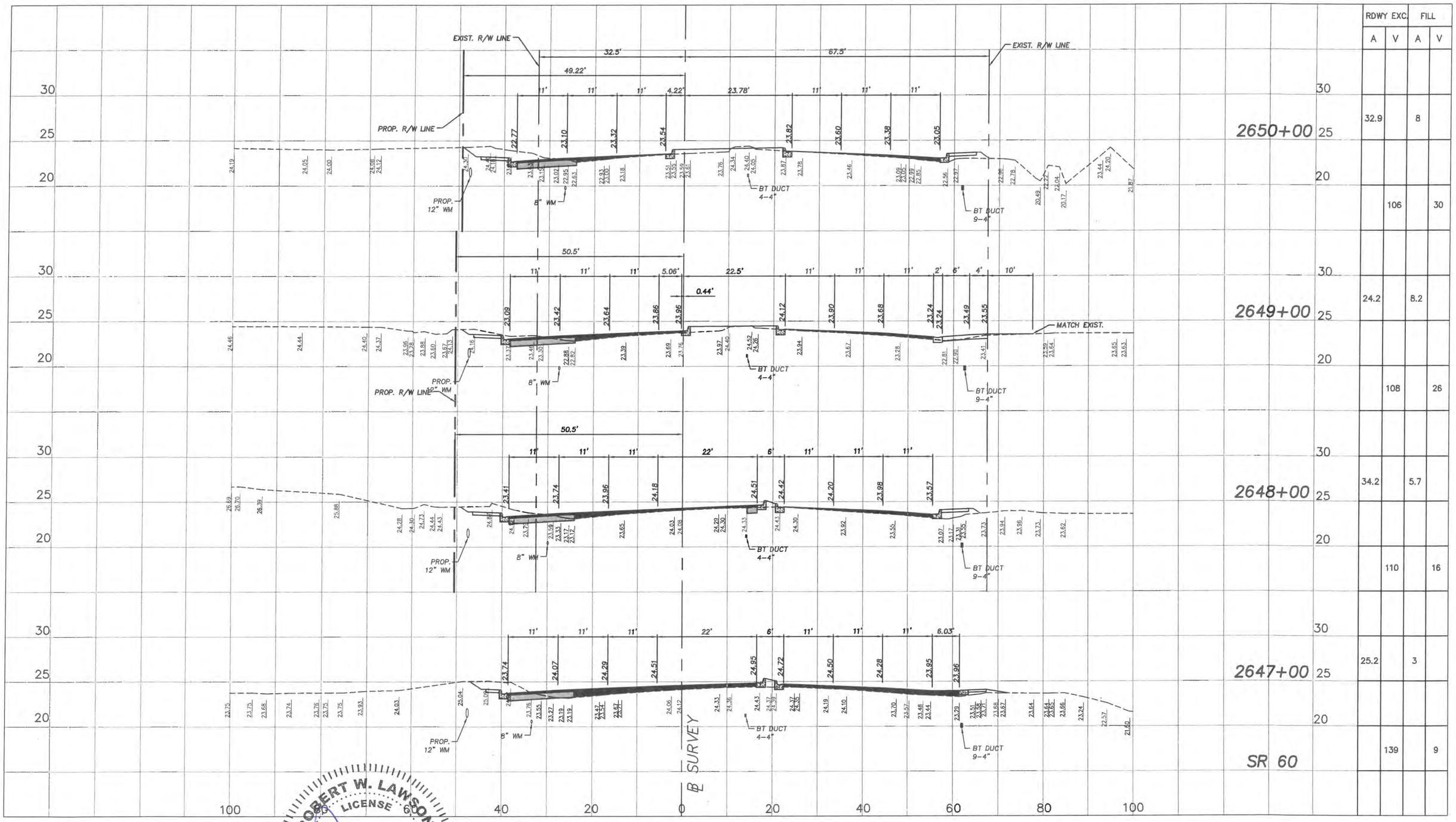

RDWY EXC.		FILL	
A	V	A	V
32.9		8	
	106		30
24.2		8.2	
	108		26
34.2		5.7	
	110		16
25.2		3	
	139		9

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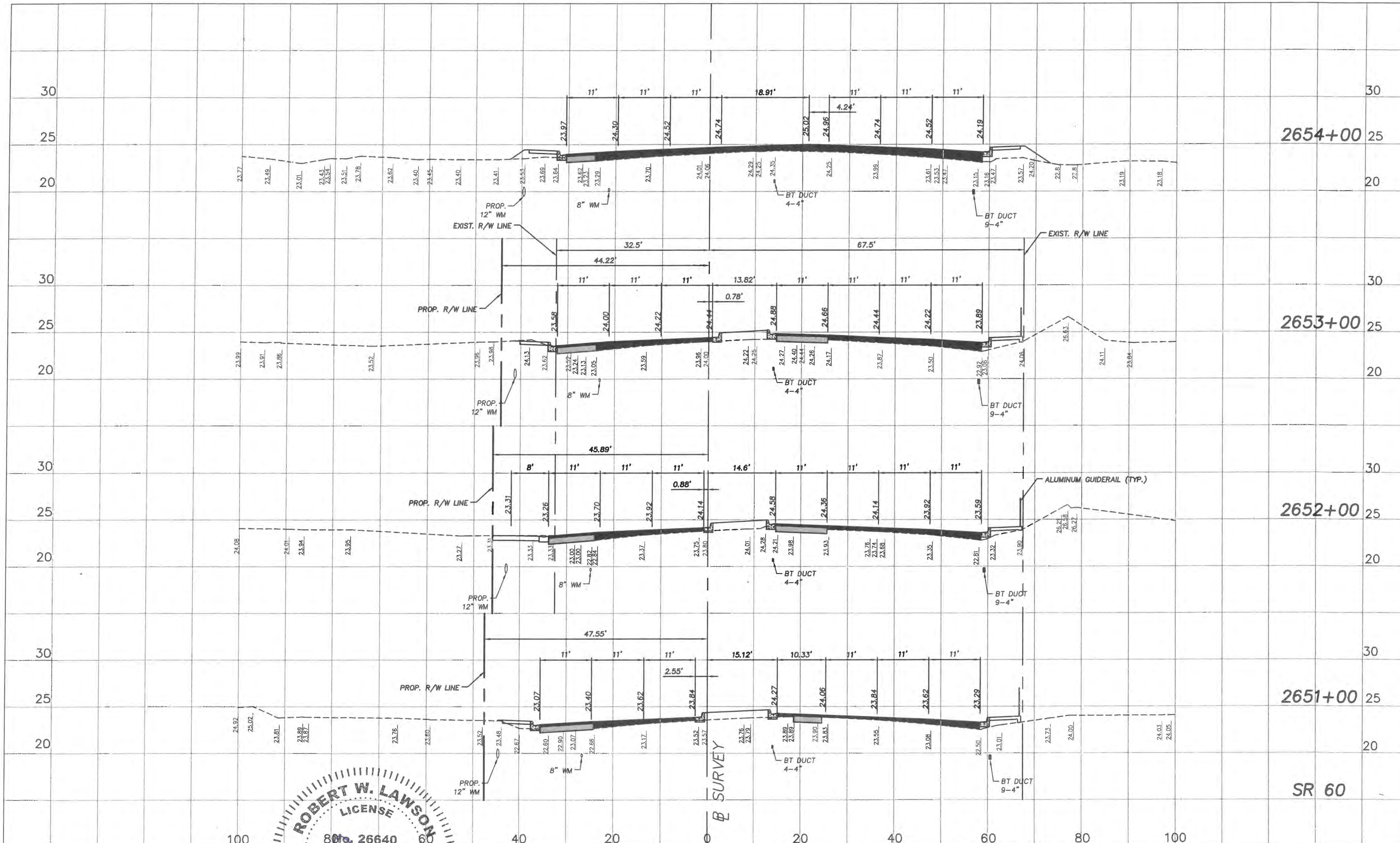

RDWY EXC. A	RDWY EXC. V	FILL A	FILL V
0.6		10	
	11		41
5.2		124	
	29		41
10.5		9.8	
	39		48
10.6		16.2	
	81		45

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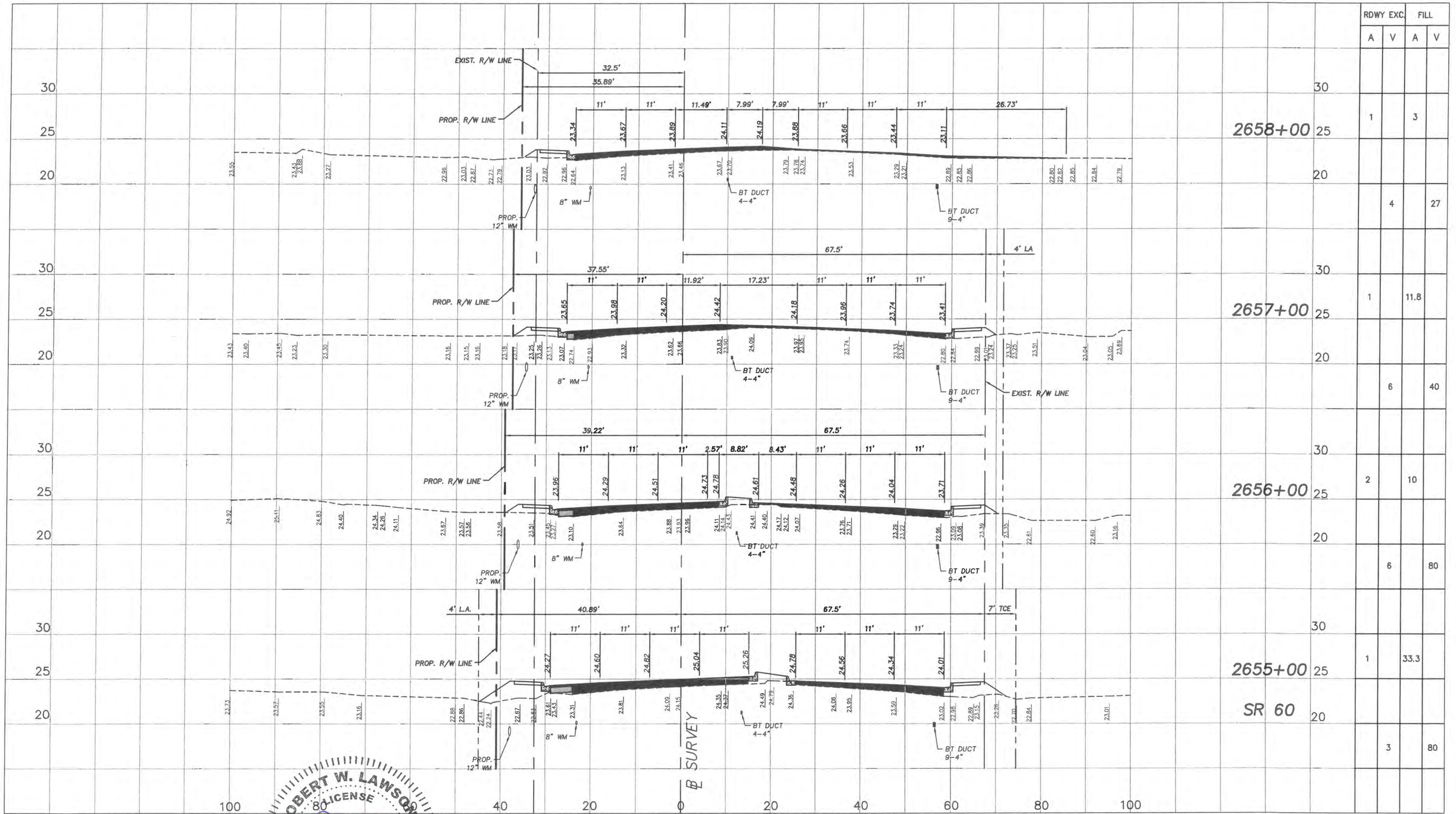
LNW# WP1027



RDWY EXC.		FILL	
A	V	A	V
1		3	
	4		27
1		11.8	
	6		40
2		10	
	6		80
1		33.3	
	3		80

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INDIAN RIVER COUNTY FLORIDA

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SR 60 & 43RD AVENUE

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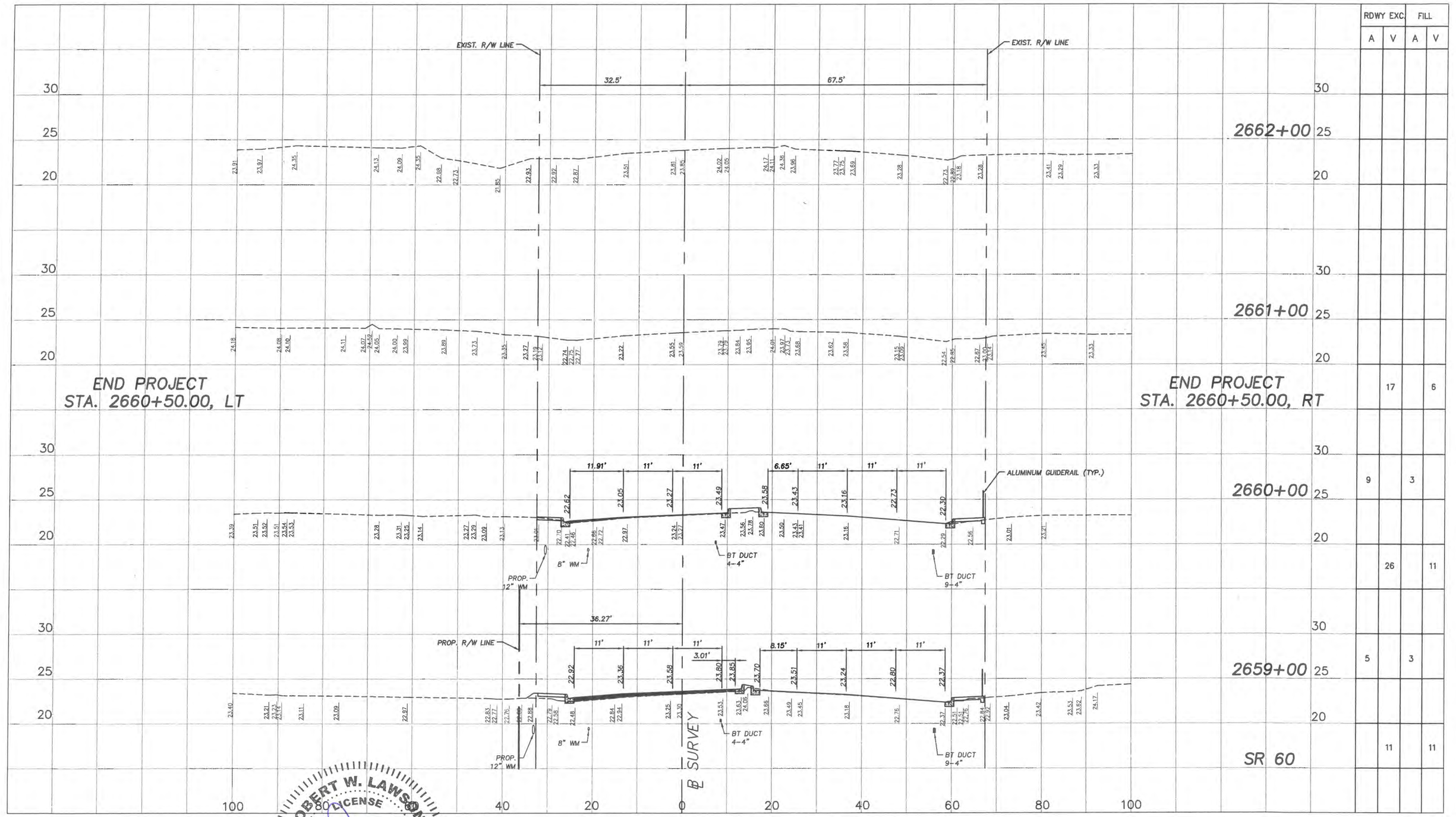
LNW# WP1027



RDWY EXC.		FILL	
A	V	A	V
	17		6
9		3	
	26		11
5		3	
	11		11

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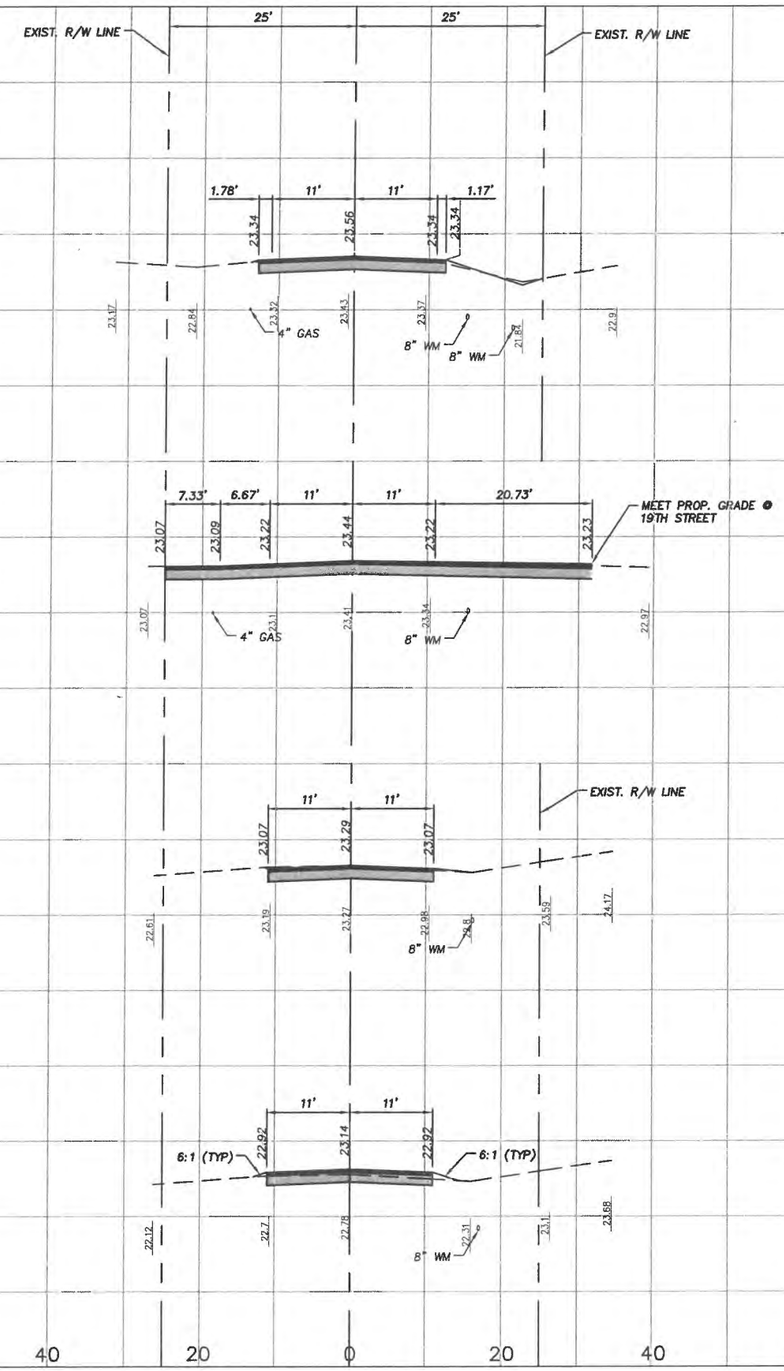
Project No.

LNW# WP1027



	RDWY EXC.		FILL	
	A	V	A	V
104+00	22		0	
		146		0
103+00	57		0	
		146		0
102+00	22		0	
		77		2
101+00	19.8		1	
		44		2

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Field Book No:

Project:
CROSS SECTIONS
FOR
SR 60 & 43RD AVENUE

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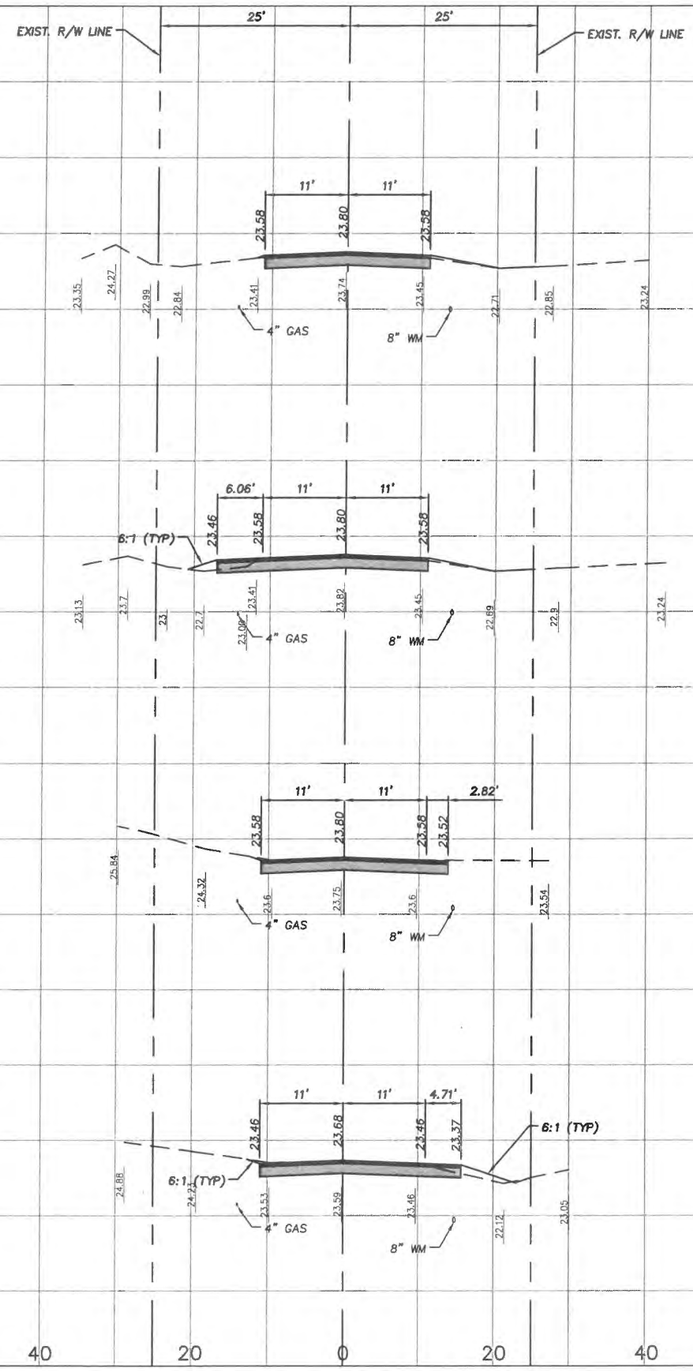

108+00

107+00

106+00

105+00

44TH AVENUE

RDWY EXC.		FILL	
A	V	A	V
22		0	
	87		2
25		1	
	87		2
22		0	
	81		7
22		4	
	81		71

100 80 60 40 20 0 20 40 60 80 100

30 25 20

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CROSS SECTIONS
FOR
SR 60 & 43RD AVENUE

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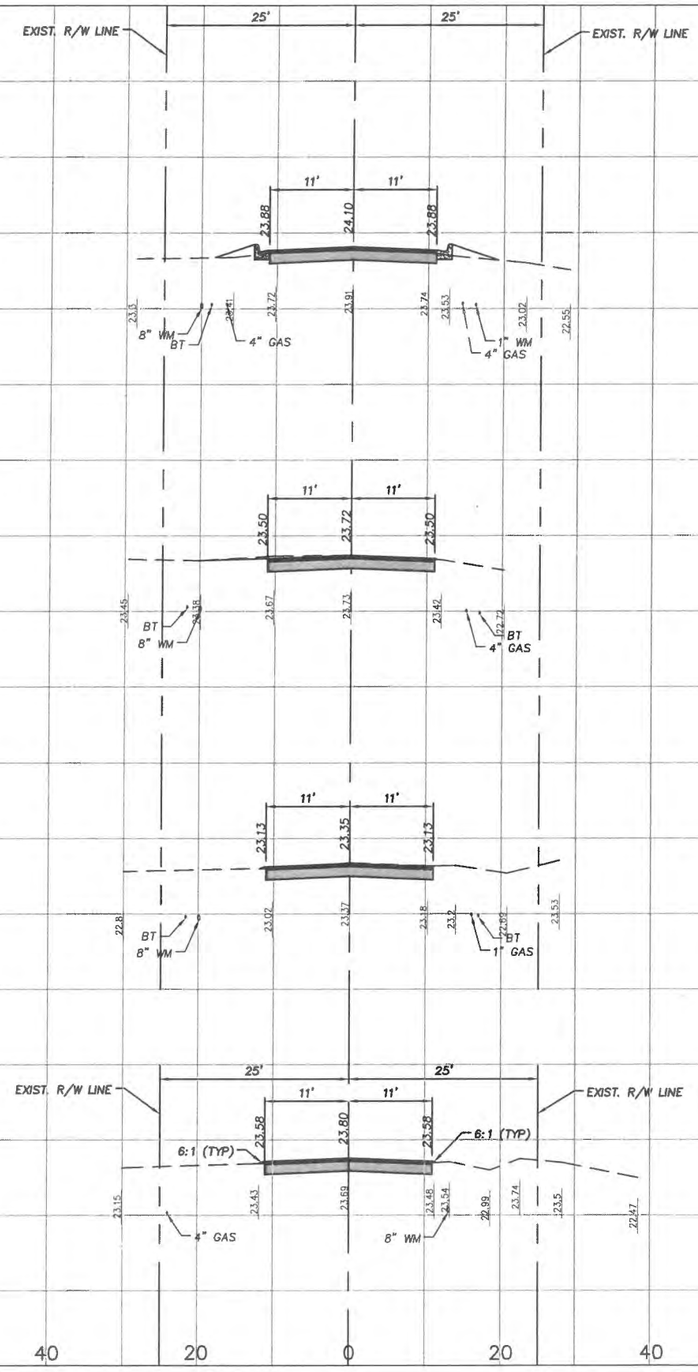

12+00

11+00

10+00

BEGIN CONSTRUCTION 19TH STREET
STA. 9+47.00

19TH STREET

END CONSTRUCTION 44TH AVE.
STA. 109+52.00

109+00

44TH AVENUE

RDWY EXC.		FILL	
A	V	A	V
	23		3
24		3	
	85		6
22		0	
	81		0
22		0	
	43		0
	42		0
22		0	
	81		0

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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 (LS).

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Project:
STORM WATER POLLUTION PREVENTION PLAN
FOR
SR 60 & 43RD AVENUE

Sheet: 88
Of: 99
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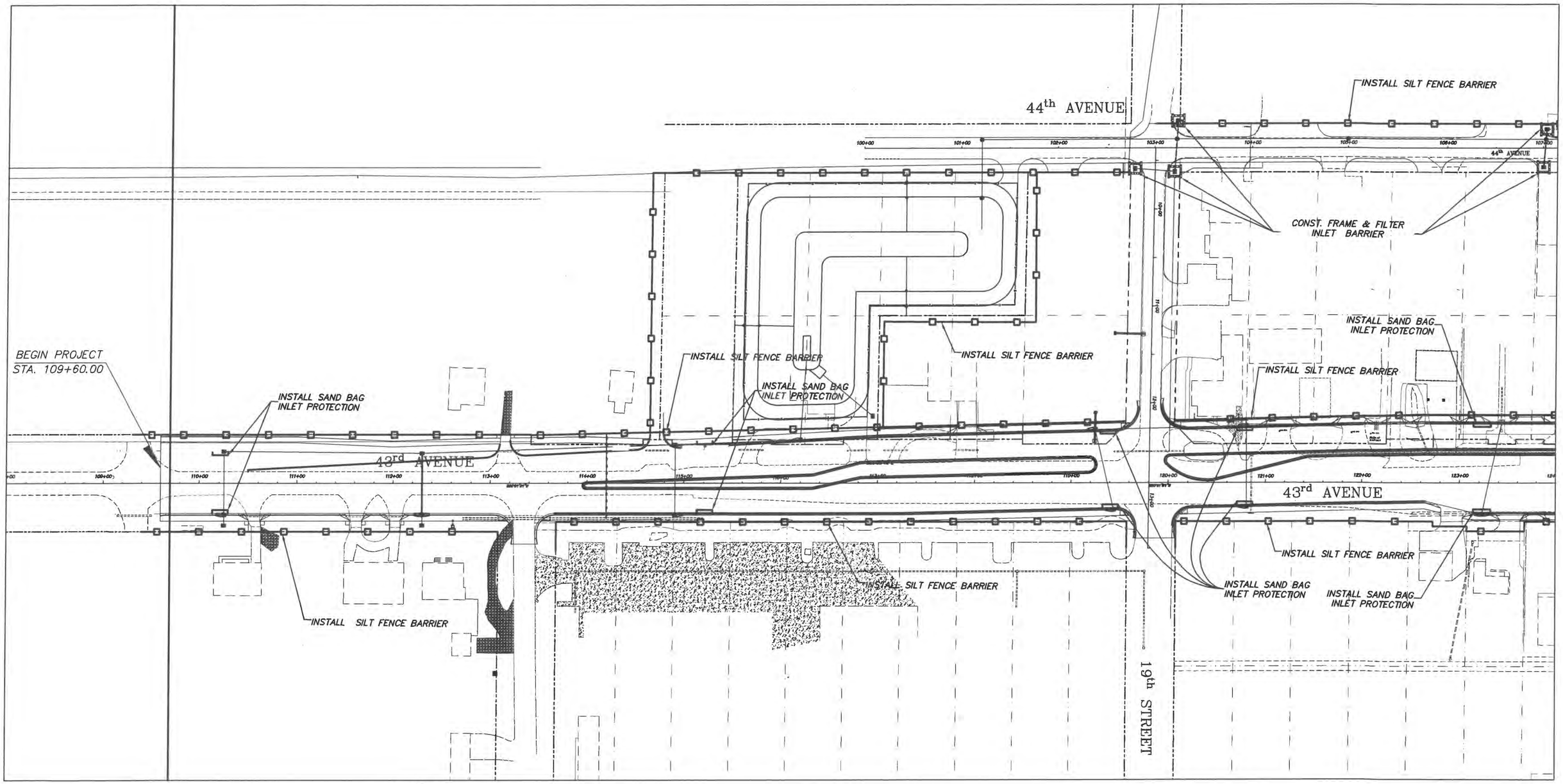
LNW# WP1027



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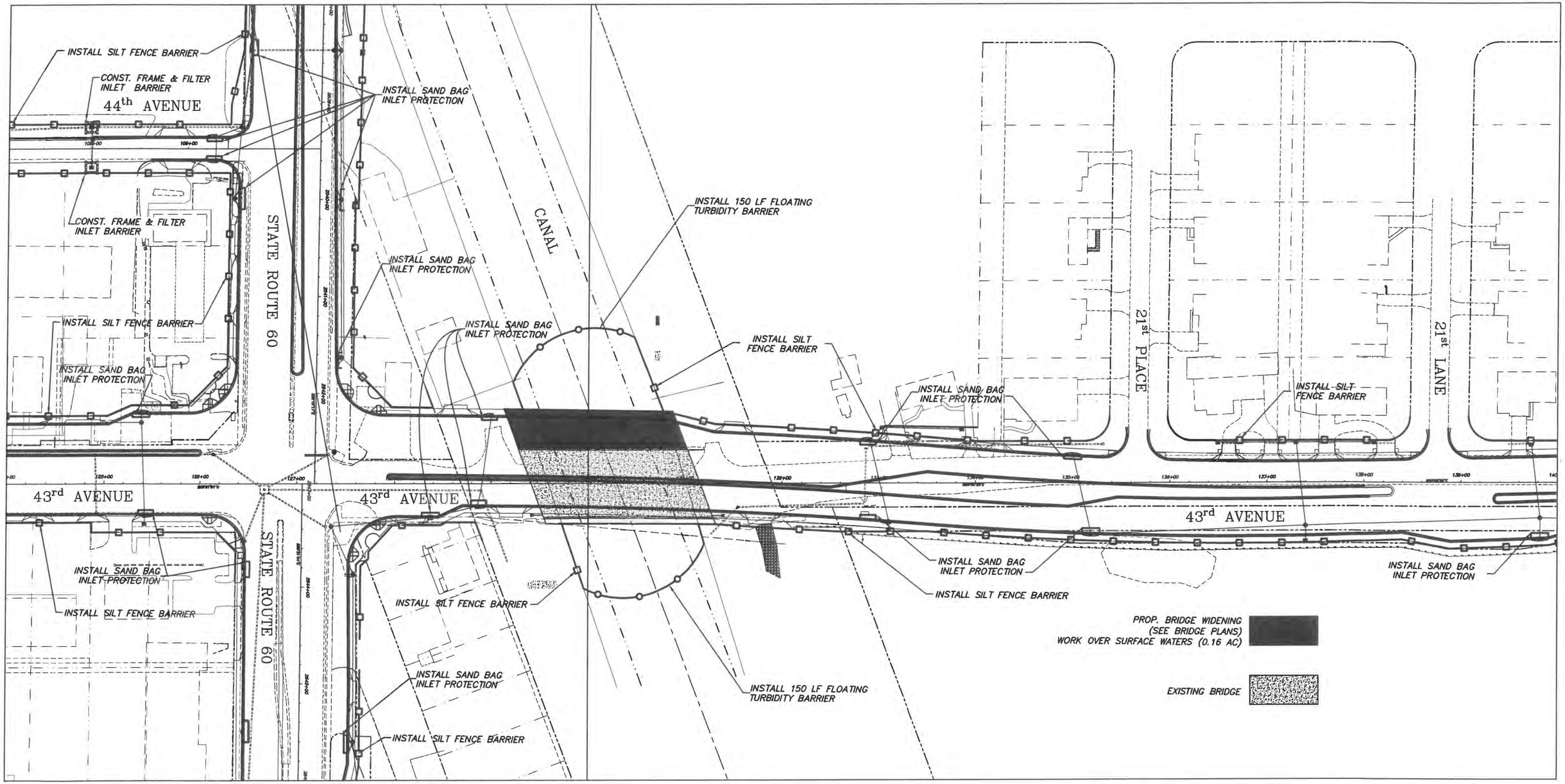

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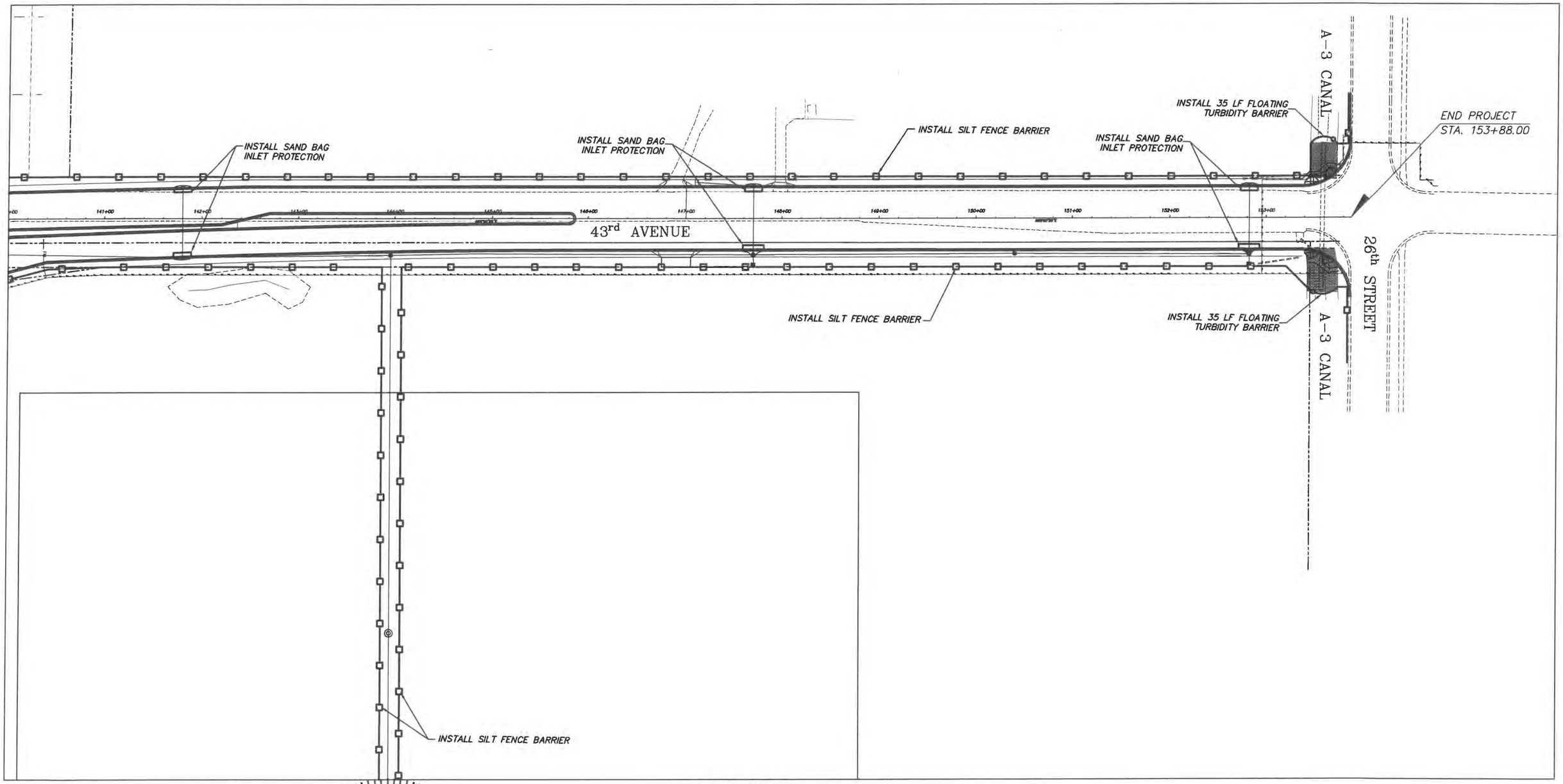

MATCH SHEET 80

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Project:
STORM WATER POLLUTION PREVENTION PLAN
FOR
SR 60 & 43RD AVENUE

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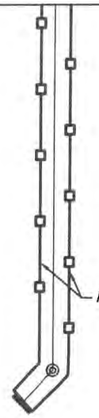
LNW# WP1027

MATCH SHEET 79



INSTALL SILT FENCE BARRIER

MATCH SHEET 26

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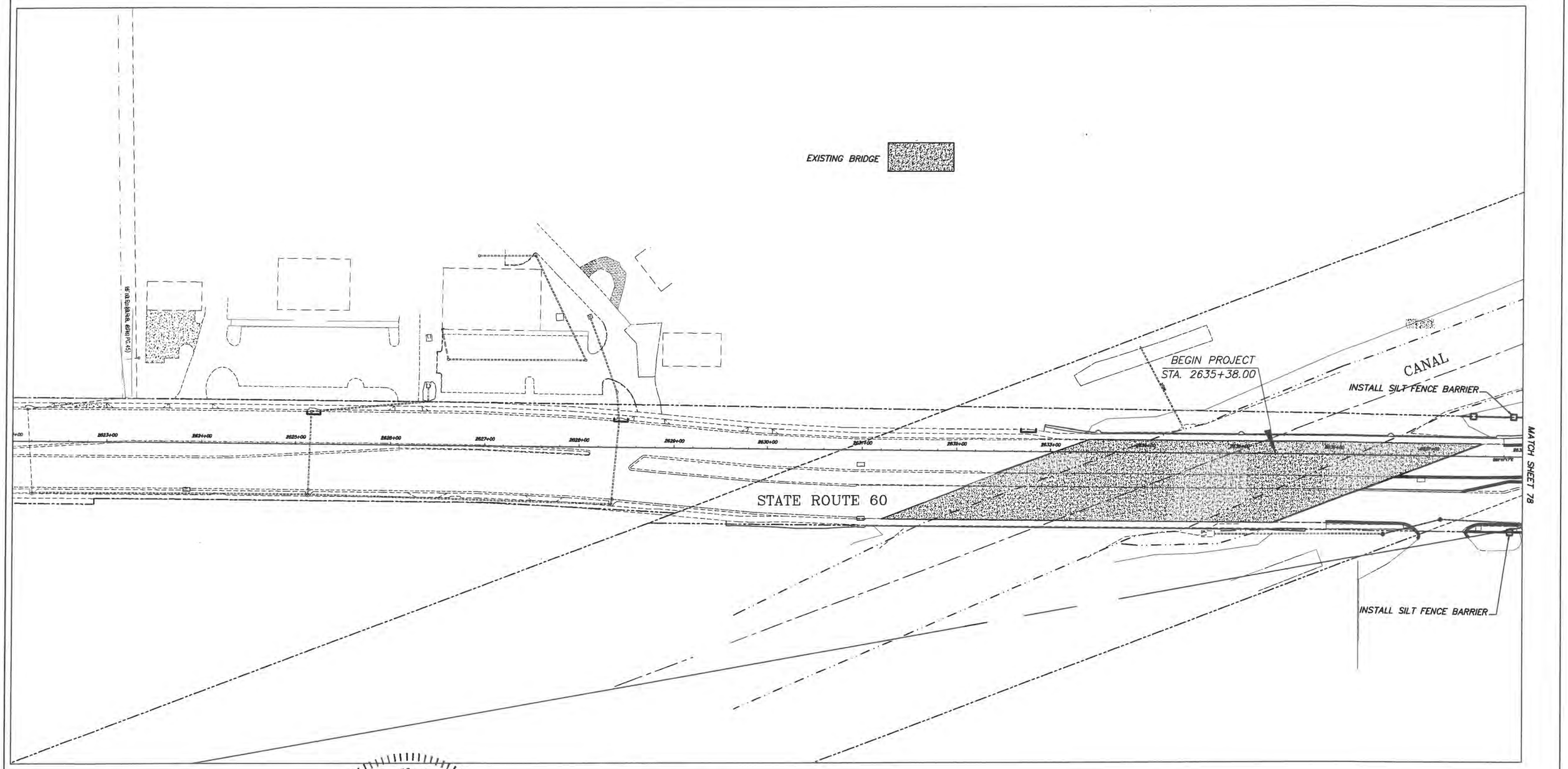

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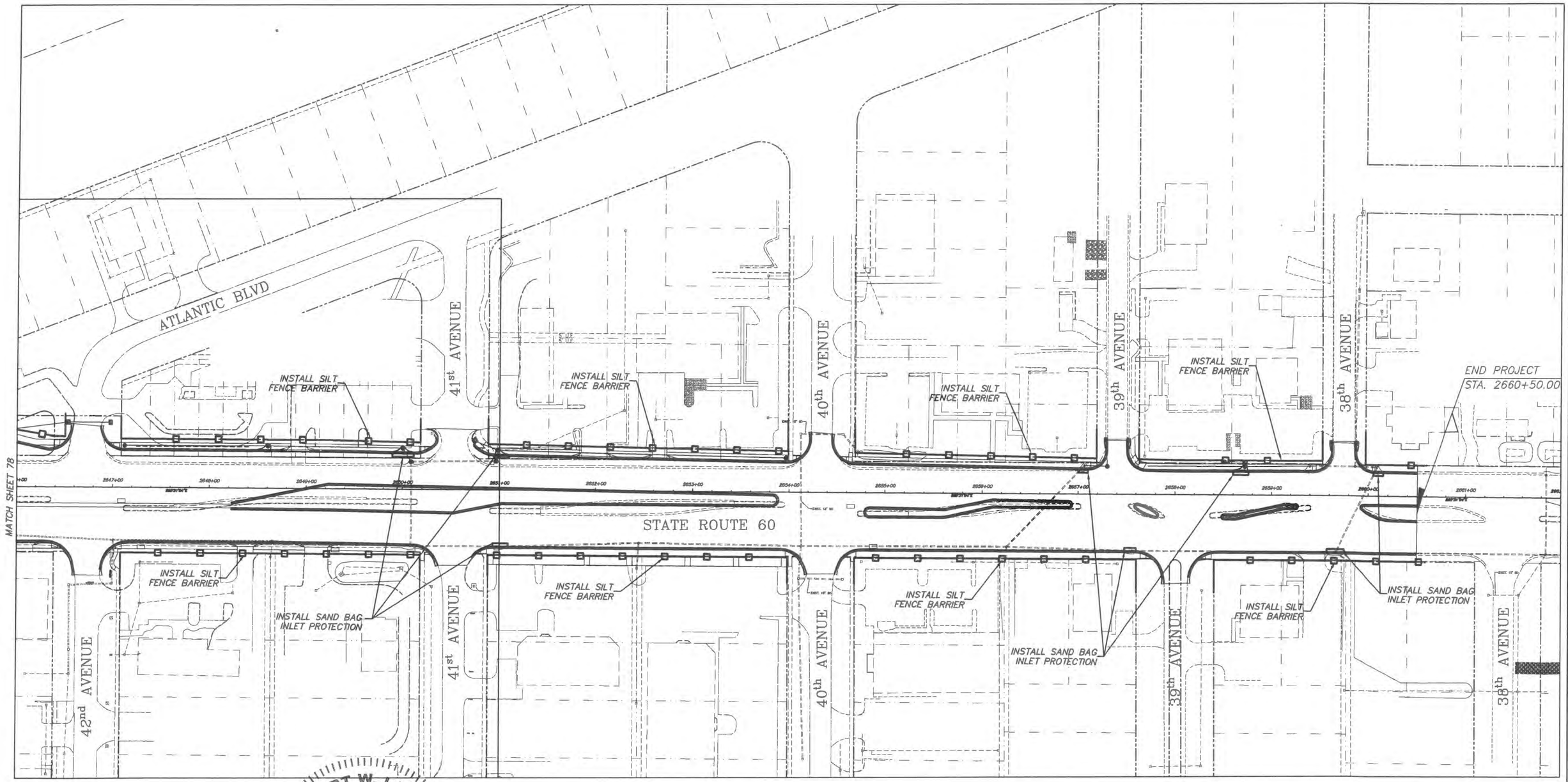

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TRAFFIC CONTROL PLAN GENERAL NOTES:

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 VMS 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 UNDUE 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, CROSSWALKS, 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 COURING PERIOD.

LIGHTING:

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:

PHASE 1 -UTILIZING INDICES 600, 613, 615, 616, 618, 635, 660 - 43RD AVE. STA. 109+60 TO STA. 153+88, SR 60 STA. 2635+38 TO STA. 2660+50.

1. 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.

PHASE 2 -UTILIZING INDICES 600, 613, 615, 616, 618, 635, 660 - 43RD AVE. STA. 109+60 TO STA. 153+88, SR 60 STA. 2635+38 TO STA. 2660+50.

1. 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.

PHASE 3 -UTILIZING INDICES 600, 613, 615, 616, 619, 635, 660 43RD AVE. STA. 109+60 TO STA. 153+88, SR 60 STA. 2635+38 TO STA. 2660+50.

1. 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.

PHASE 4 -UTILIZING INDICES 600, 613, 615, 616, 619, 635, 660 43RD AVE. STA. 109+60 TO STA. 153+88, SR 60 STA. 2635+38 TO STA. 2660+50.

1. 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.

PHASE 5 -UTILIZING INDICES 600, 613, 615, 616, 619, 635, 660 43RD AVE. STA. 109+60 TO STA. 153+88, SR 60 STA. 2635+38 TO STA. 2660+50.

1. 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.

ROBERT W. LAWSON LICENSE No. 26640 PROFESSIONAL ENGINEER STATE OF FLORIDA
DEC 17 2018

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Engineering Division

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Project:
TRAFFIC CONTROL PLANS
FOR
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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-advertise 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.

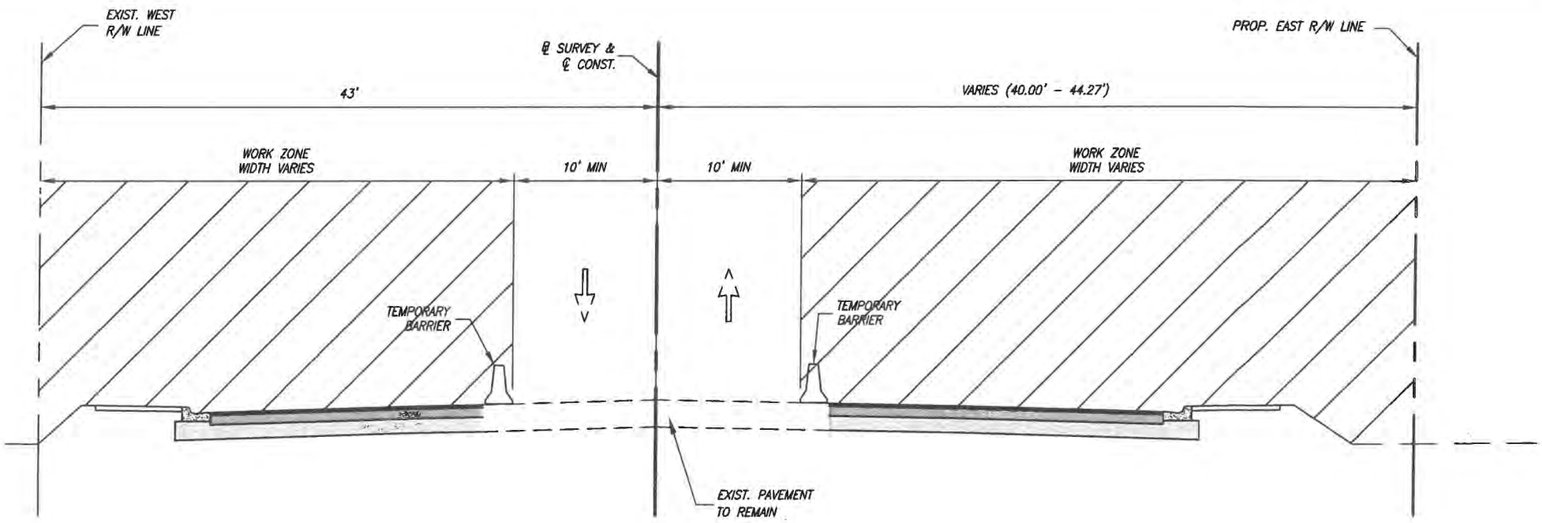
It is the policy of the Traffic Engineering Division to randomly monitor the contractor's compliance with all regulations while working on County roadways and within right-of-ways. Matters of public safety shall be attended to immediately upon notification by the County Public Work Director or his designee.

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 in inspect the Maintenance of Traffic for compliance with the approved TCP prior to construction commencement.

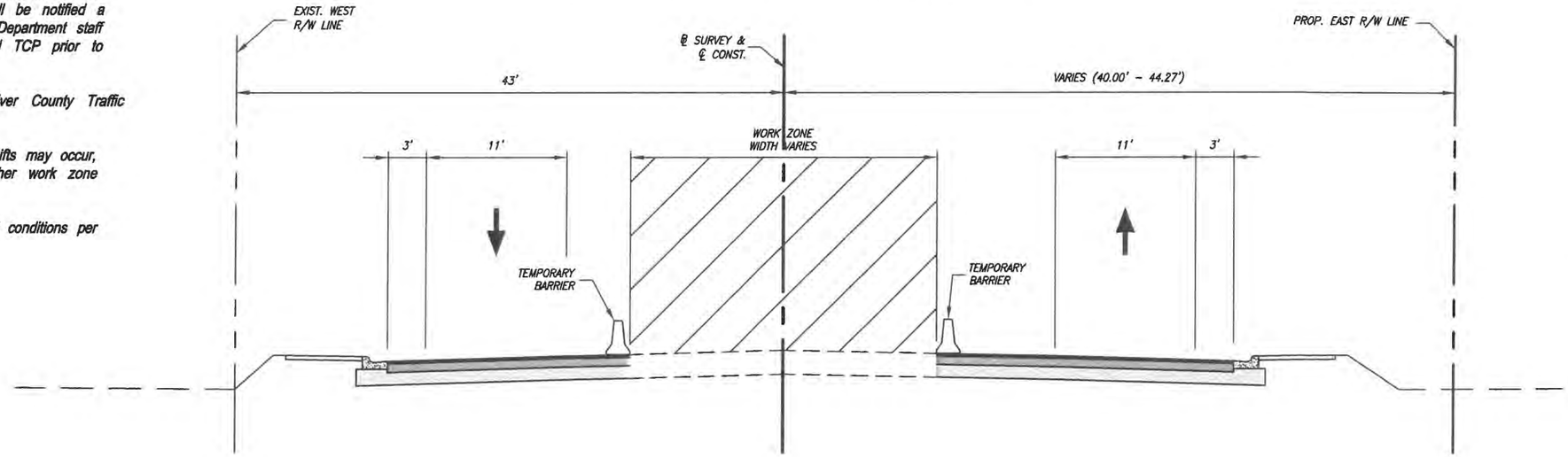
Construction at or Near Signalized Intersections shall comply with Indian River County Traffic Engineering Division's Special Conditions for Right-of-Way Construction.

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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TRAFFIC CONTROL PLANS
FOR
SR 60 & 43RD AVENUE

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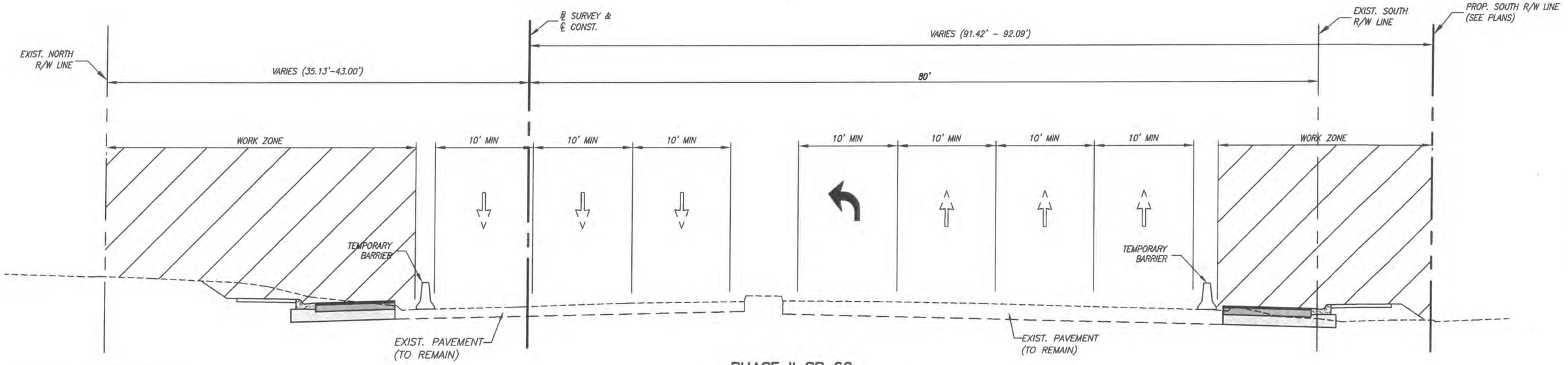
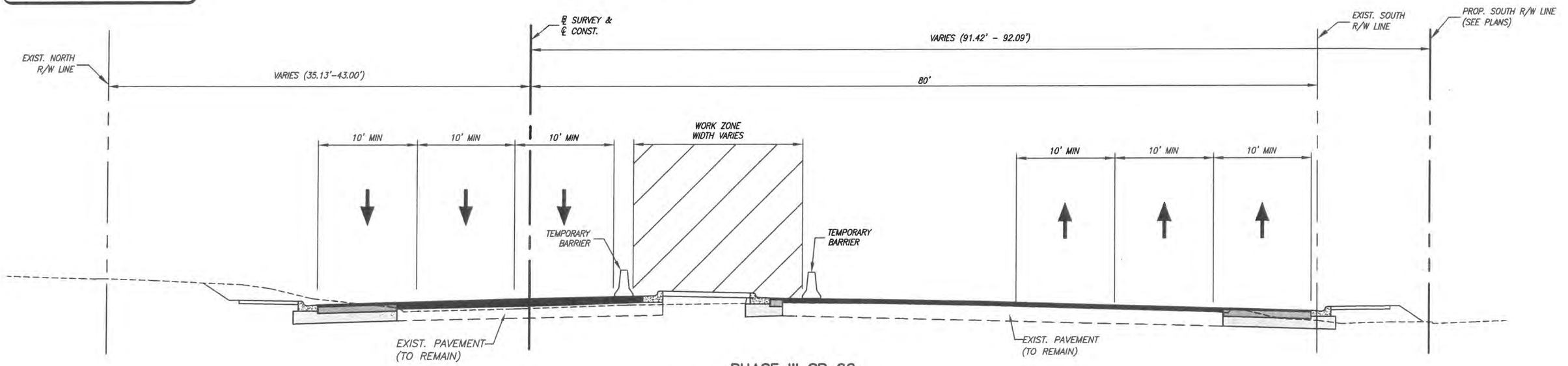
LNW WP1027



PHASE II SR 60

STA. 2635+38 TO STA. 2660+50

DESIGN SPEED 45 MPH



PHASE III SR 60

STA. 2635+38 TO STA. 2660+50

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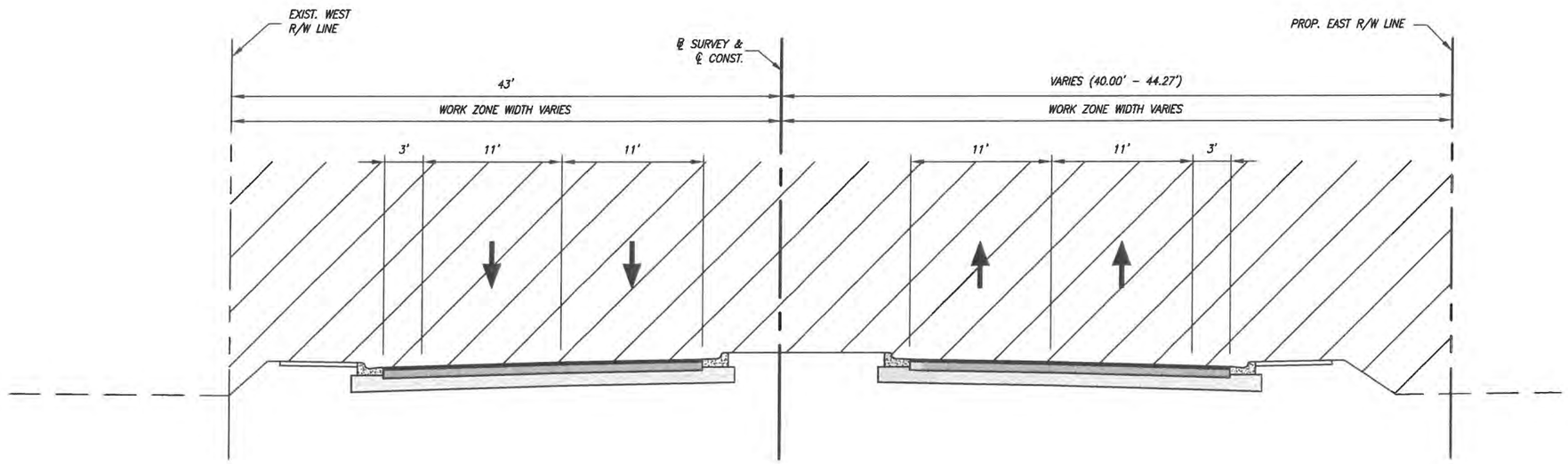
LNW# WP1027



PHASE IV 43RD AVENUE TYPICAL SECTION
STA. 109+60 TO STA. 153+88

DESIGN SPEED 45 MPH

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STATE OF FLORIDA
PROFESSIONAL ENGINEER
LB7062
DEC 17 2018

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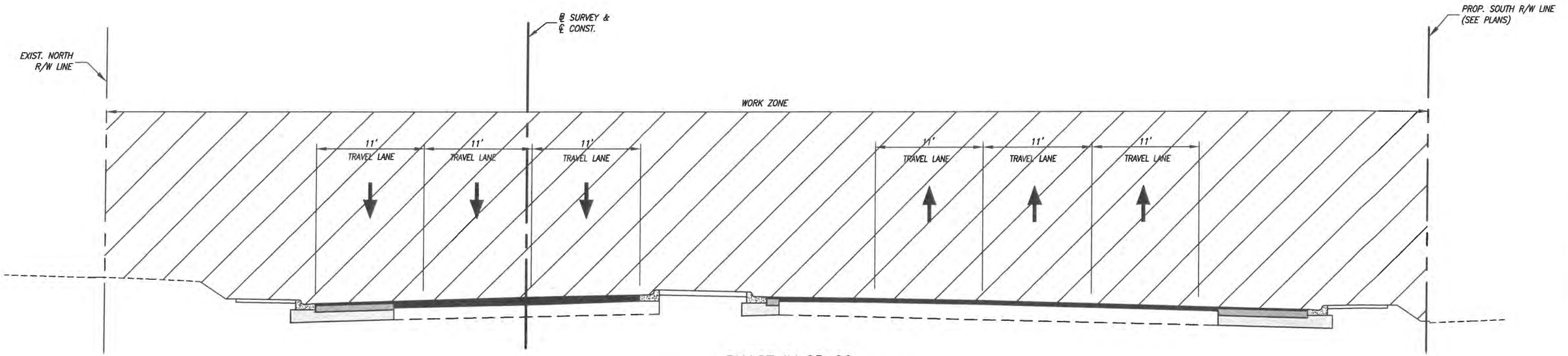

PHASE IV SR 60

STA. 2635+38 TO STA. 2660+50

DESIGN SPEED 45 MPH

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TRAFFIC CONTROL PLANS
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FDOT FPN# 431759-2-54-01

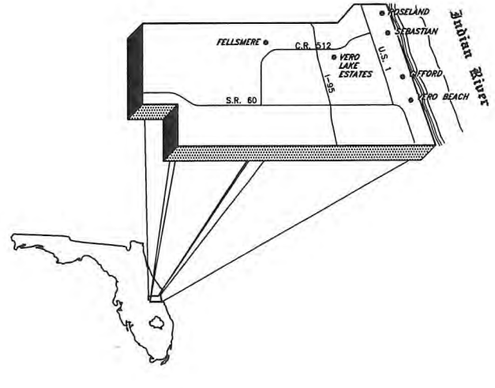
INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS

INDEX OF SHEETS

SHEET No.	DESCRIPTION
S-1	COVER SHEET
S-2 - S-13	SIGNING & PAVEMENT MARKING PLANS

SUMMARY OF PAY ITEMS			
NO.	ITEM	UNIT	QUANTITY
0700 2011	SINGLE POST SIGN, F&I, <12 SF	AS	64
0700 2013	SINGLE POST SIGN, F&I, 21>30 SF	AS	9
077 20 40	SINGLE POST SIGN, RELOCATE	AS	13
0705 11 1	DELINEATOR, FLEXIBLE TUBULAR	EA	18
0706 3	RETRO-REFLECTIVE PAVEMENT MARKERS	EA	780
0711 11111	THERMOPLASTIC, STANDARD, WHITE, SOLID, 6"	NM	3.14
0711 11122	THERMOPLASTIC, STANDARD, WHITE, SOLID, 8"	LF	2135
0711 11123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12"	LF	2086
0711 11124	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18"	LF	455
0711 11125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24"	LF	563
0711 11131	THERMOPLASTIC, STANDARD, WHITE, SKIP, 6"	GM	3.59
0711 11160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE	EA	17
0711 11170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA	88
0711 11211	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 6"	NM	2.26
0711 11222	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18"	LF	77
0711 11231	THERMOPLASTIC, STANDARD, YELLOW, SKIP, 6"	GM	0.44

STATE ROUTE 60
&
43RD AVENUE
PROJECT
C.P.#0512



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

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

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

COUNTY ENGINEER:
JAMES W. ENNIS, P.E.

PROJECT MANAGER:
WILLIAM JOHNSON, P.E.

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.

ROBERT W. LAWSON LICENSE 26640 STATE OF FLORIDA PROFESSIONAL ENGINEER

DATE: 1-18-19 PROFESSIONAL ENGINEER # 26640

ROBERT W. LAWSON, P.E.

Department of Public Works
Engineering Division
INDIAN RIVER COUNTY FLORIDA

No:	Revision:	By:	Date

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Date: 06/2017

SIGNING & PAVEMENT MARKING PLANS FOR SR 60 & 43RD AVENUE

Sheet: S-1
Of: S-13
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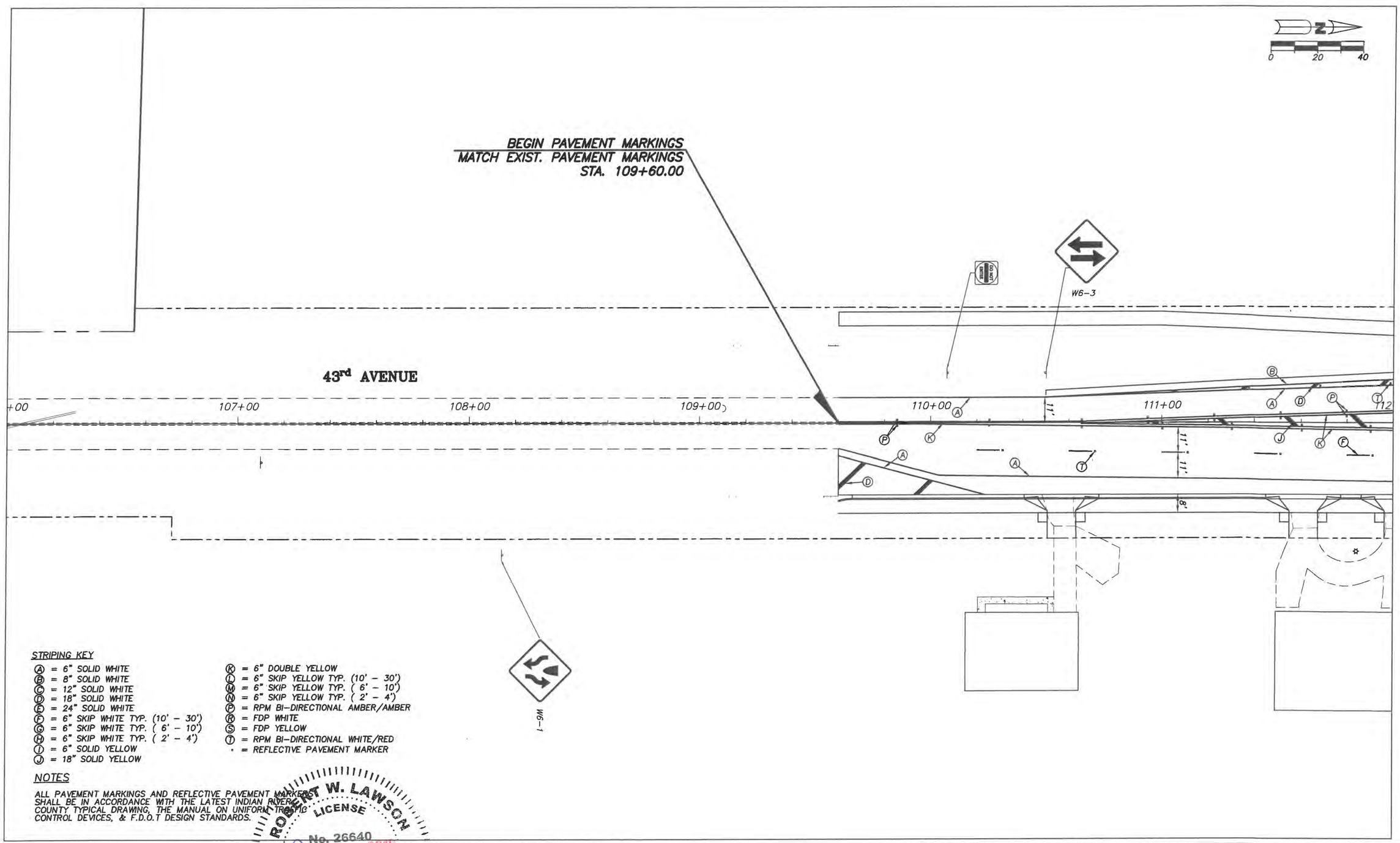

STRIPING KEY

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- • = REFLECTIVE PAVEMENT MARKER

NOTES

ALL PAVEMENT MARKINGS AND REFLECTIVE PAVEMENT MARKERS SHALL BE IN ACCORDANCE WITH THE LATEST INDIAN RIVER COUNTY TYPICAL DRAWING, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, & F.D.O.T DESIGN STANDARDS.

ROBERT W. LAWSON LICENSE No. 26640 DEC 17 2018 STATE OF FLORIDA PROFESSIONAL ENGINEER

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Project:
SIGNING & PAVEMENT MARKING PLANS
FOR
SR 60 & 43RD AVENUE

Sheet: S-2
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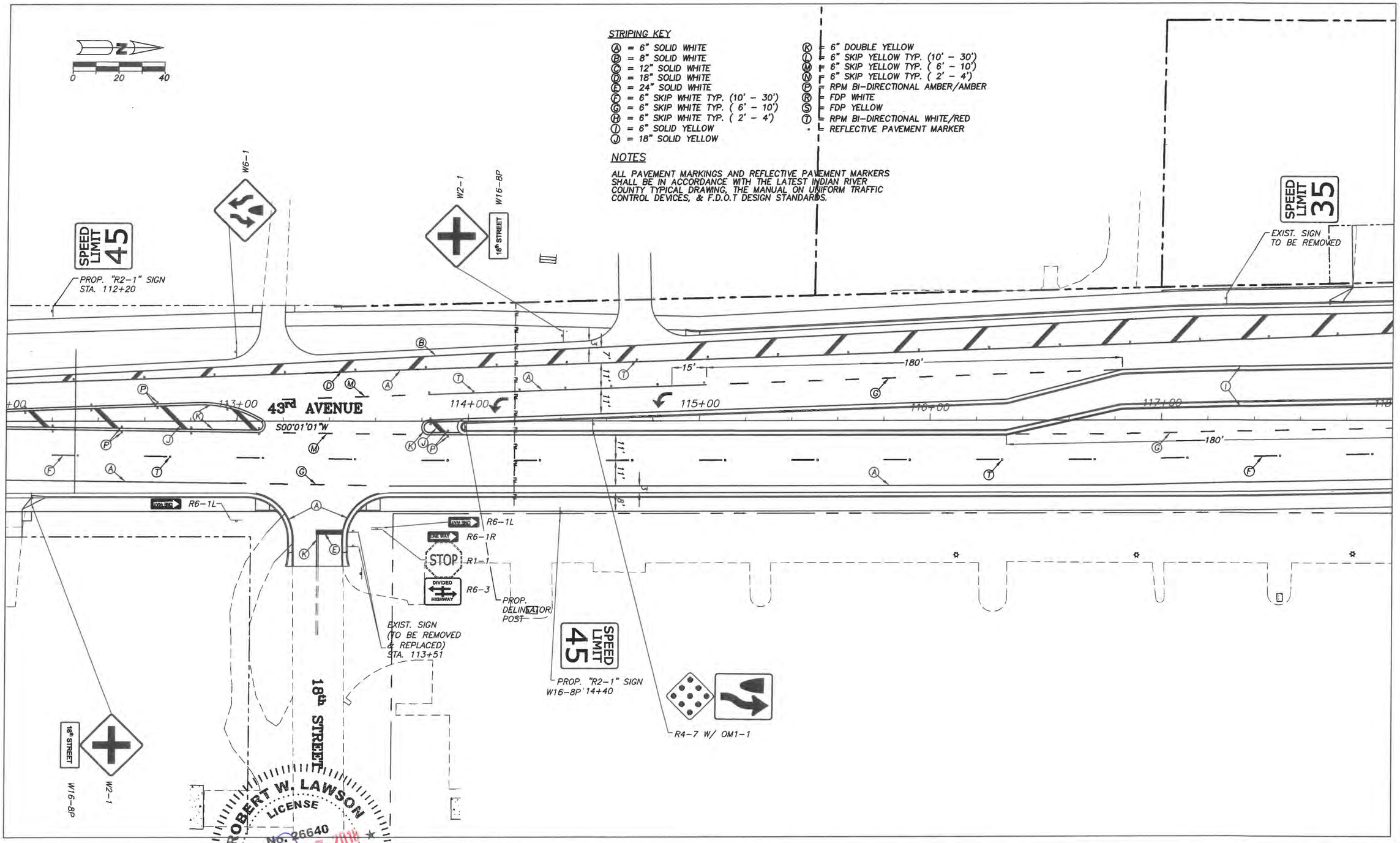

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SIGNING & PAVEMENT MARKING PLANS
FOR
SR 60 & 43RD AVENUE

Sheet: S-3
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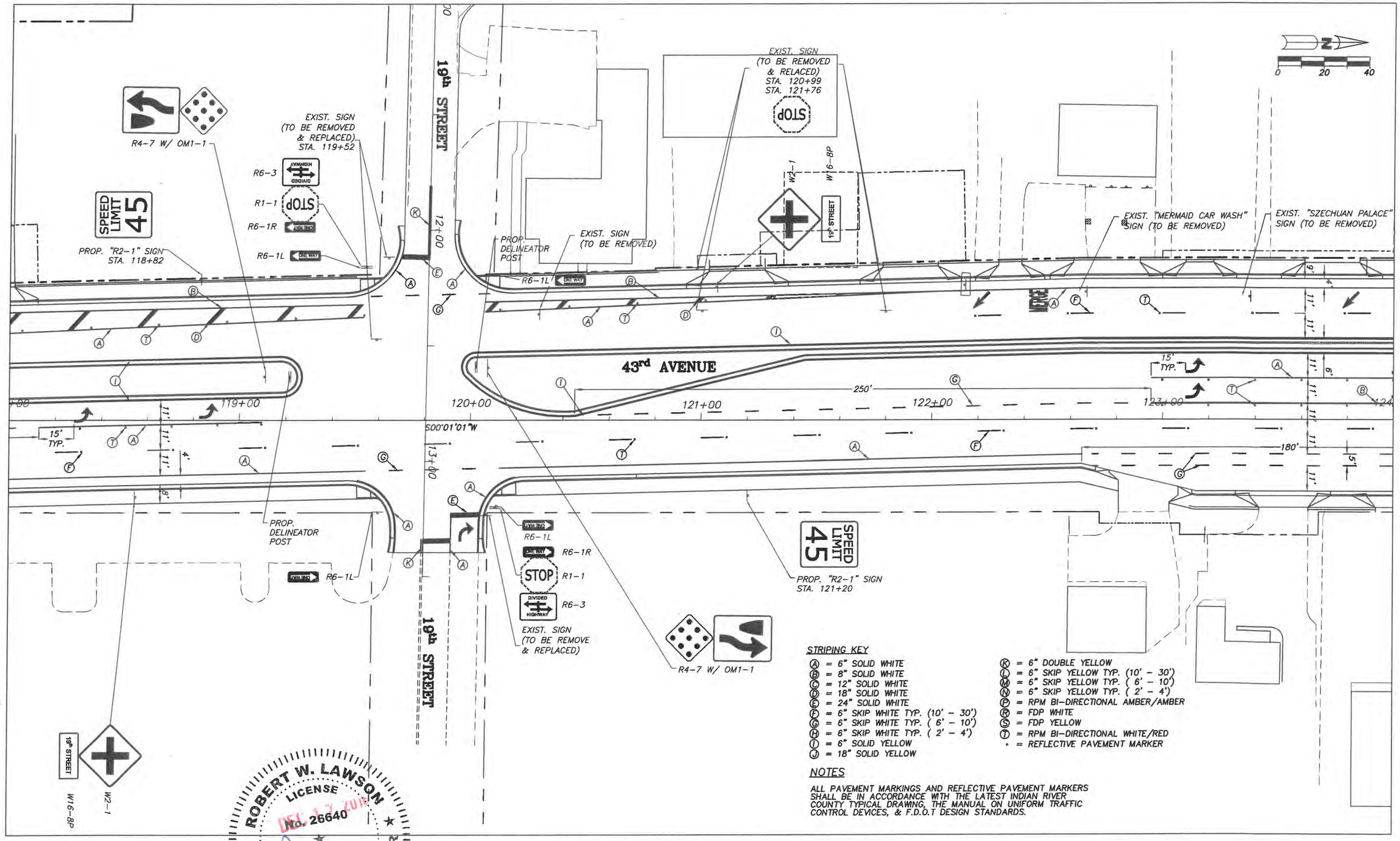

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ROBERT W. LAWSON LICENSE No. 26640 STATE OF FLORIDA PROFESSIONAL ENGINEER

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Project:
SIGNING & PAVEMENT MARKING PLANS
FOR
SR 60 & 43RD AVENUE

Sheet: S–4
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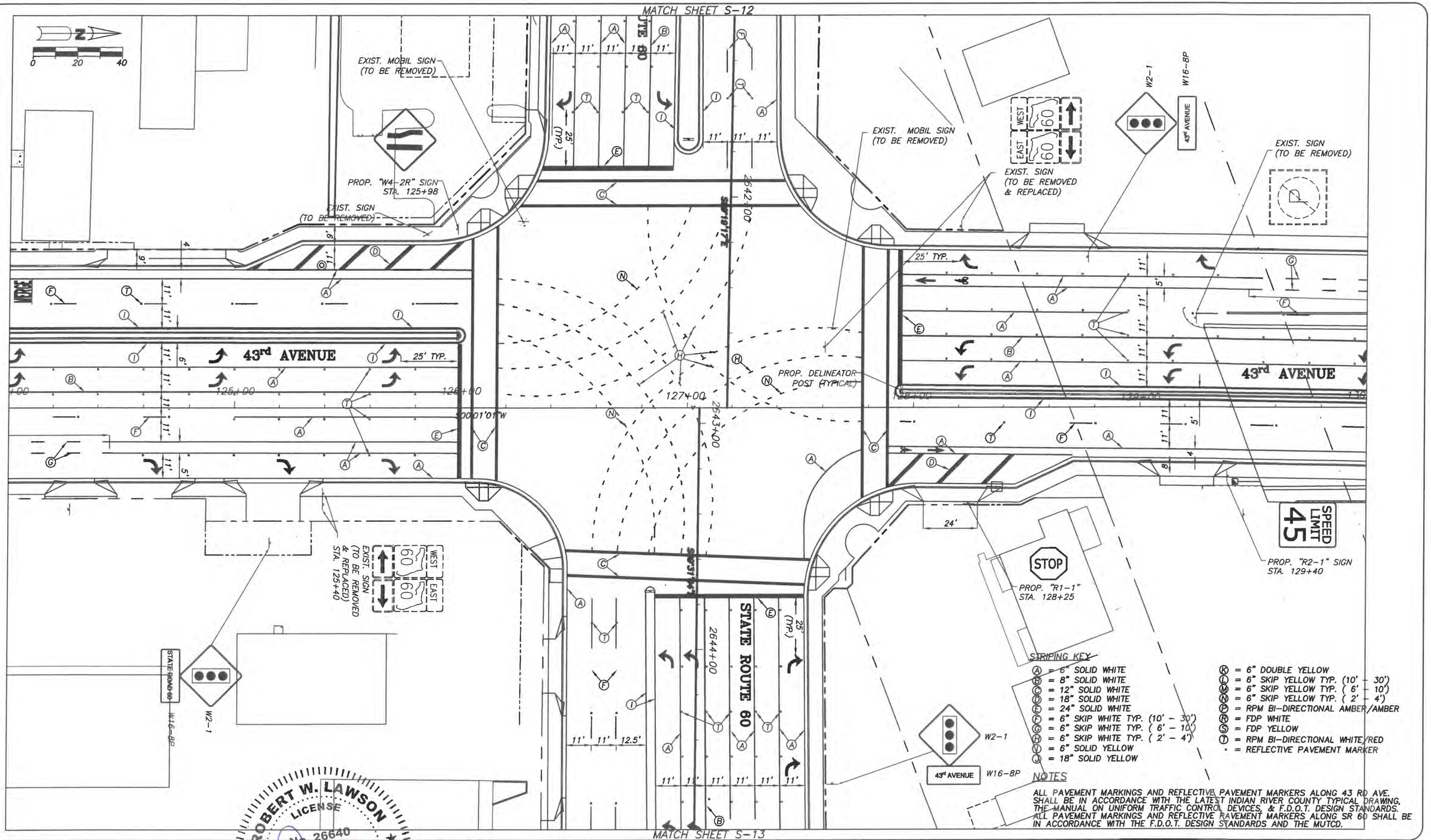

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SIGNING & PAVEMENT MARKING PLANS
FOR
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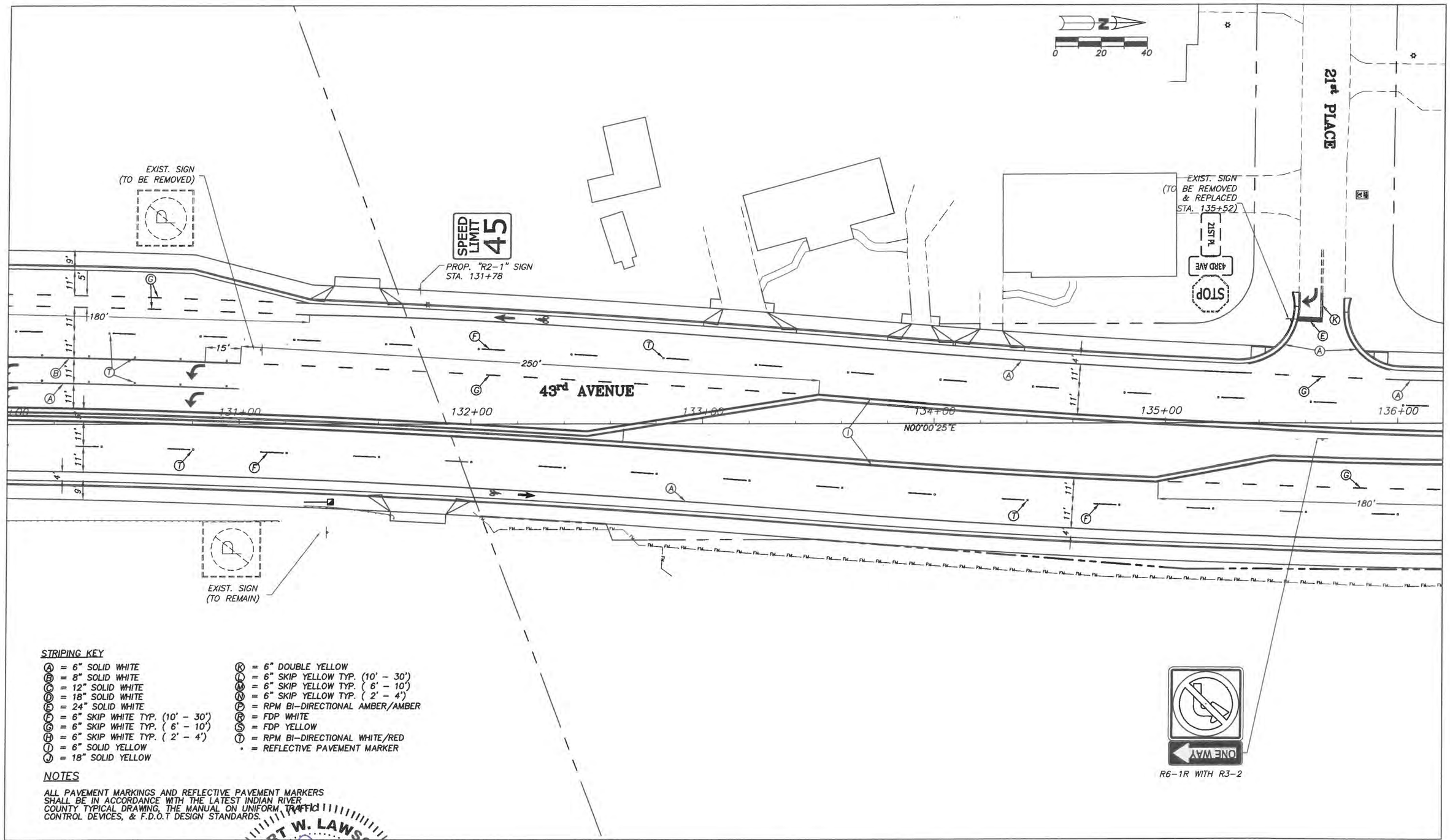

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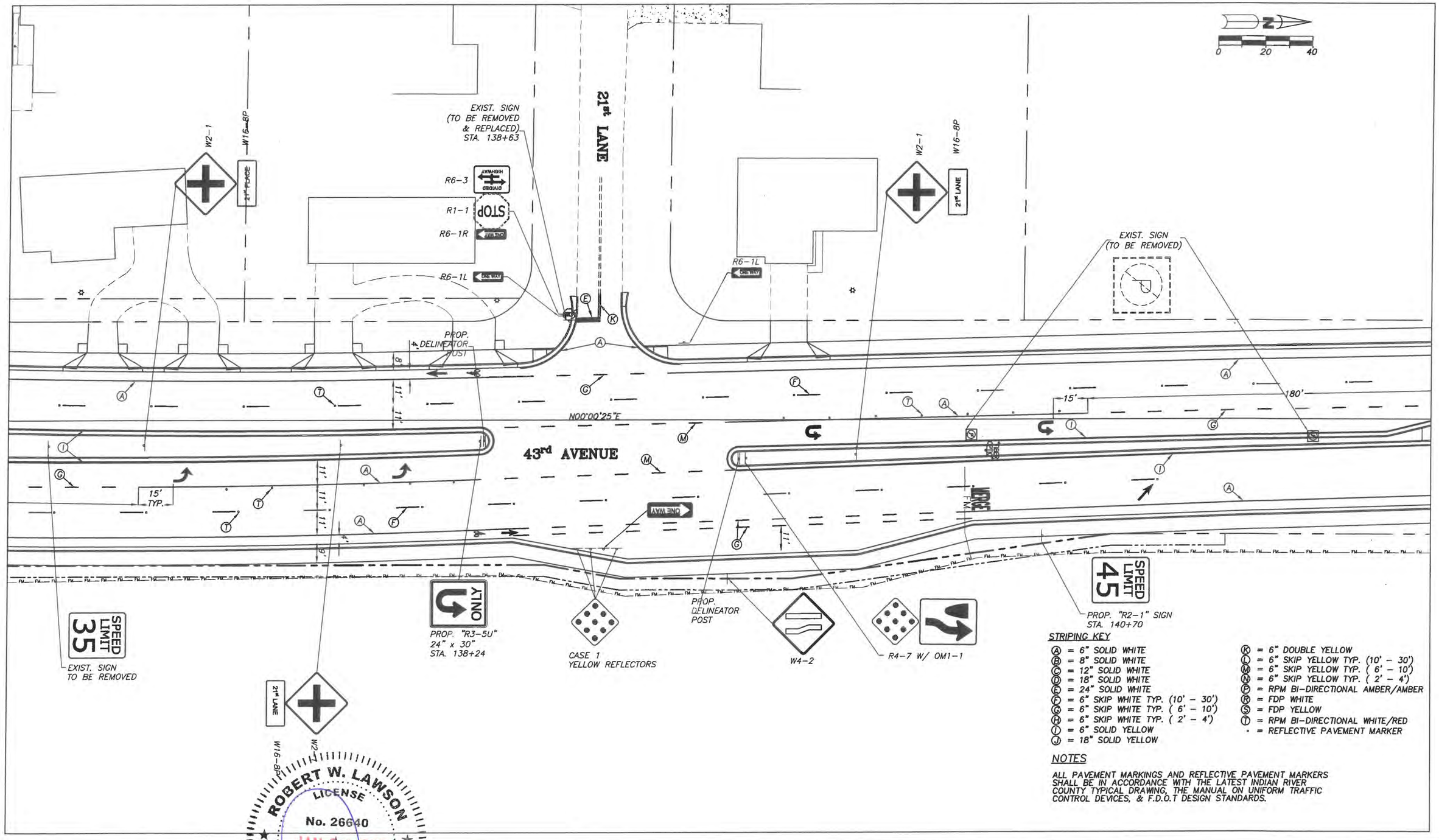

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- (P) = RPM BI-DIRECTIONAL AMBER/AMBER
- (R) = FDP WHITE
- (S) = FDP YELLOW
- (T) = RPM BI-DIRECTIONAL WHITE/RED
- ▪ = REFLECTIVE PAVEMENT MARKER

NOTES

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ROBERT W. LAWSON
LICENSE
No. 26640
STATE OF FLORIDA
PROFESSIONAL ENGINEER
JAN 8 2019

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GB310 / LC26000

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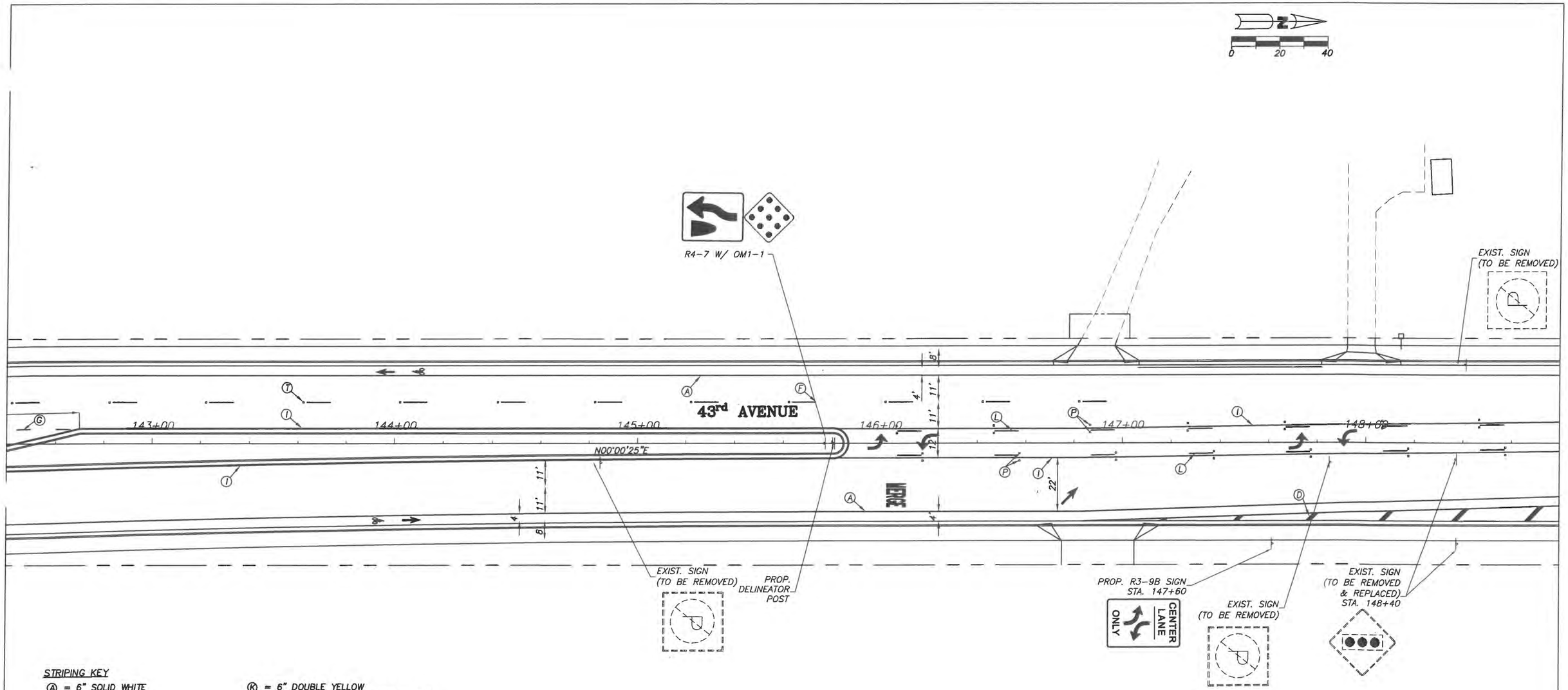
Department of Public Works
Engineering Division

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

Project:
SIGNING & PAVEMENT MARKING PLANS
FOR
SR 60 & 43RD AVENUE

Sheet: S-7
Of: S-13
Project No.
LNW# WP1027



STRIPING KEY

- Ⓐ = 6" SOLID WHITE
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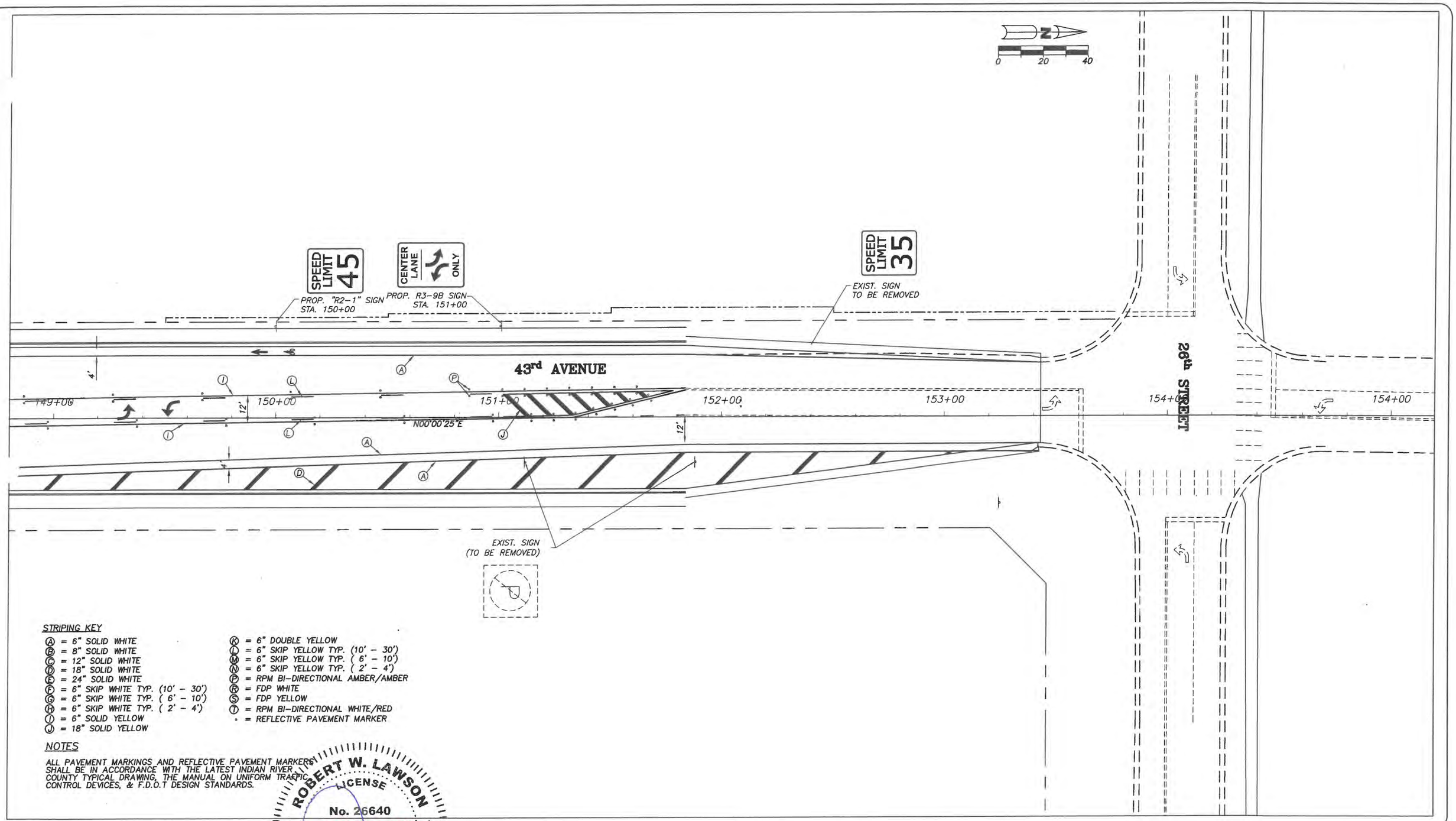

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SIGNING & PAVEMENT MARKING PLANS
FOR
SR 60 & 43RD AVENUE

Sheet: S-9
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Project No.
LNW# WP1027

N
0
20
40

R6-1R
ONE WAY
EXIST. SIGN (TO BE REMOVED AND REPLACED)
STA. 2637+10

EXIST. SIGN (TO BE REMAIN)

M4-5
M1-1
M6-3
TO
95
EXIST. SIGN (TO BE REMOVED AND REPLACED)
STA. 2638+16

STA. 2639+56
R6-1R
ONE WAY

R2-1
SPEED LIMIT
45
EXIST. SIGN (TO BE REMOVED AND REPLACED)
STA. 2639+73

M3-4
FTP-17-06
WEST
60
EXIST. SIGN (TO BE REMOVED AND REPLACED)
STA. 2641+00

SOFFIT OF CROSS BEAM
ELEV 19.2

CONC BRIDGE DECK

S89°18'17"E

℄ SURVEY & ℄ CONST.

11'

15' (TYP.)

85'

STATE ROUTE 60

STATE RO

MATCH SHEET S-9

BEGIN PROJECT
STA. 2635+38.00

STOP
EXIST. SIGN (TO REMAIN)

STRIPING KEY

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MATCH SHEET NO. 43

44th AVENUE

STOP
EXIST. SIGN (TO BE REMOVED)
PROP. R6-1R
R1-1 & R6-3
STA. 2639+64

ONE WAY
STOP
DIVIDED HIGHWAY

43rd AVENUE
W16-8P
W2-1

MATCH SHEET NO. 43

ROBERT W. LAWSON
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STATE OF FLORIDA
DEC 17 2018

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EB7921 / 2682

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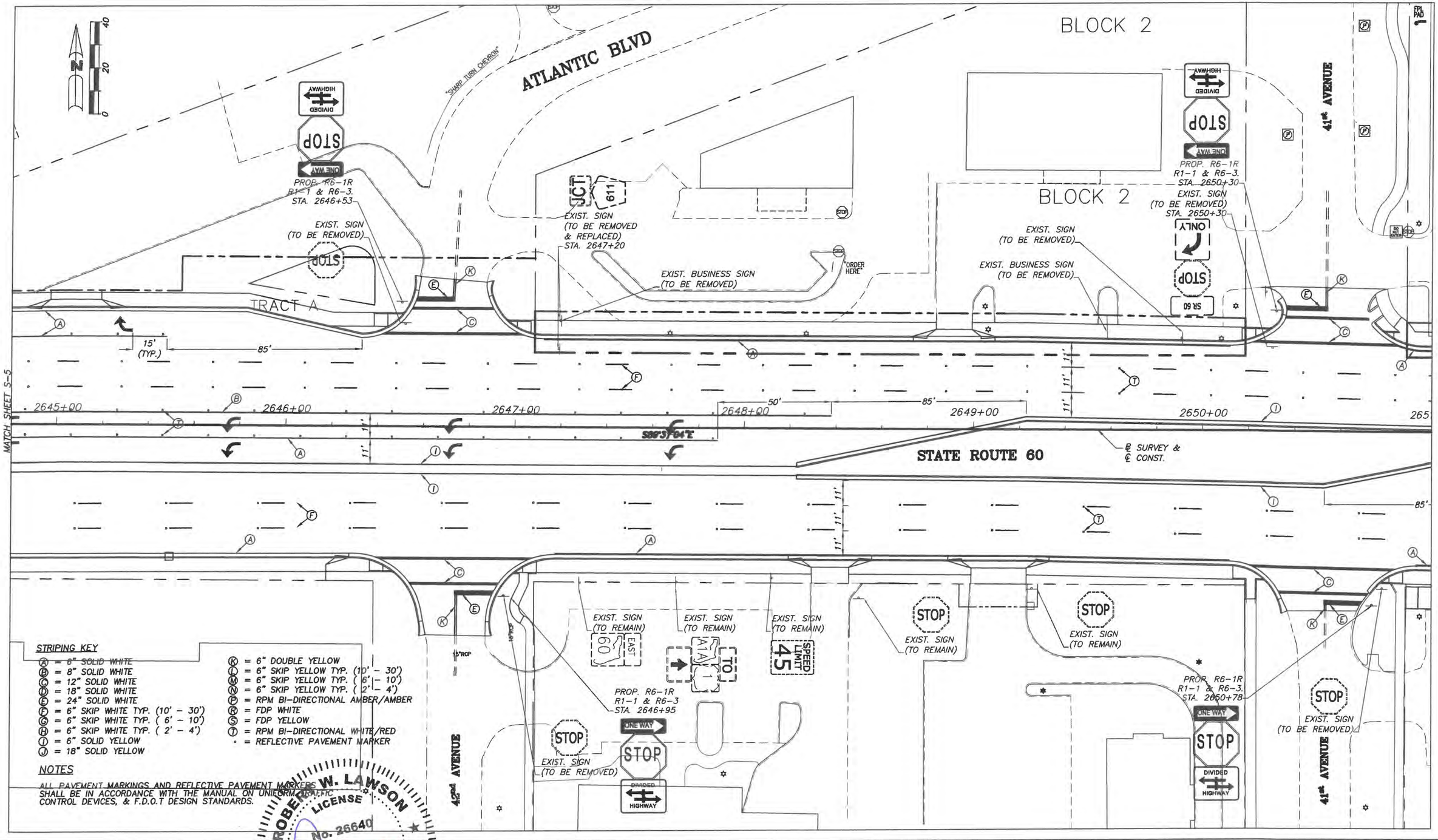

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Engineering Division

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Project:
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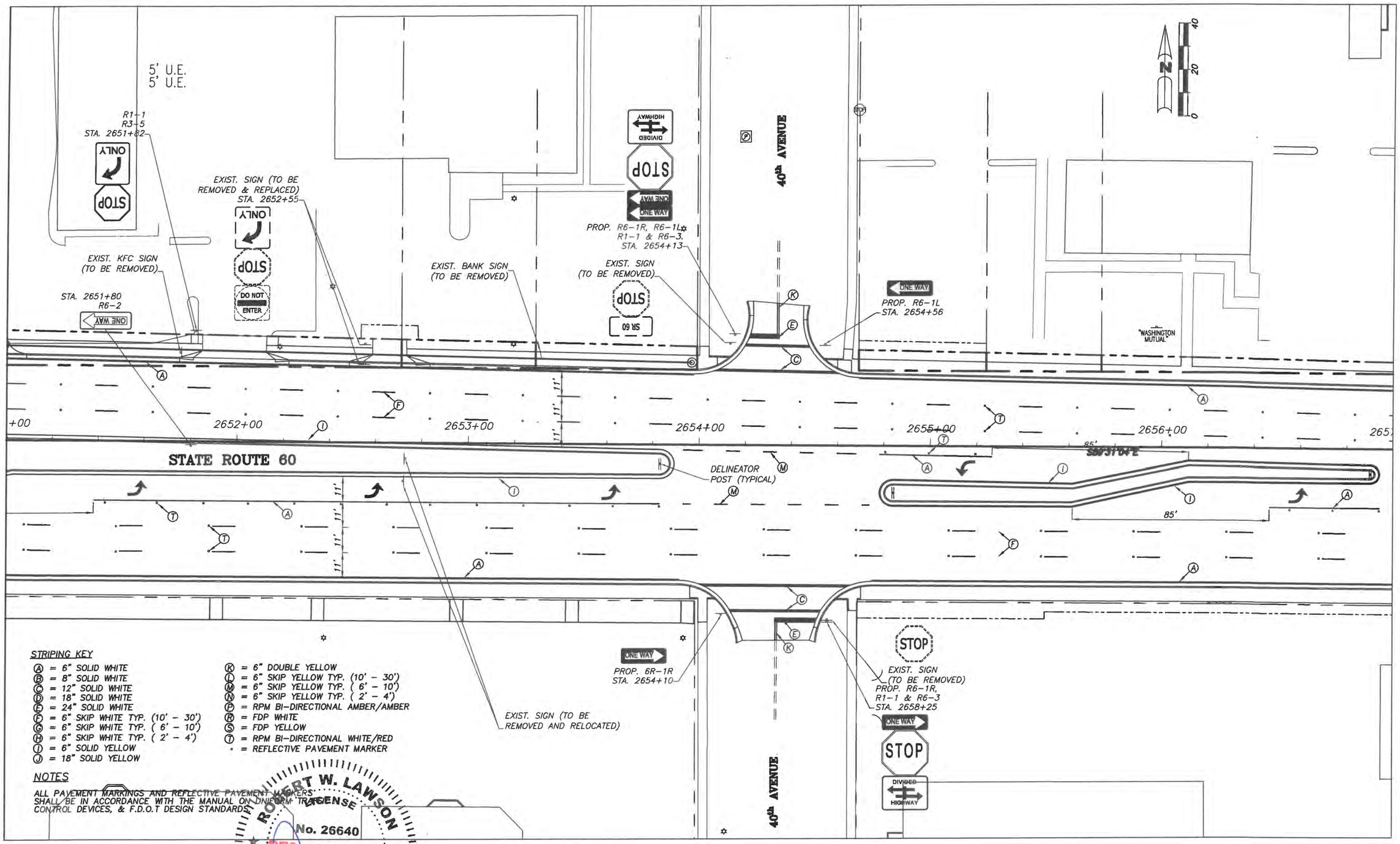

STRIPING KEY

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- (C) = 12" SOLID WHITE
- (D) = 18" SOLID WHITE
- (E) = 24" SOLID WHITE
- (F) = 6" SKIP WHITE TYP. (10' – 30')
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GBS10 / LC26000266
EB7917

No:	Revision:	By:	Date:

Department of Public Works
Engineering Division
INDIAN RIVER COUNTY FLORIDA

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Project:
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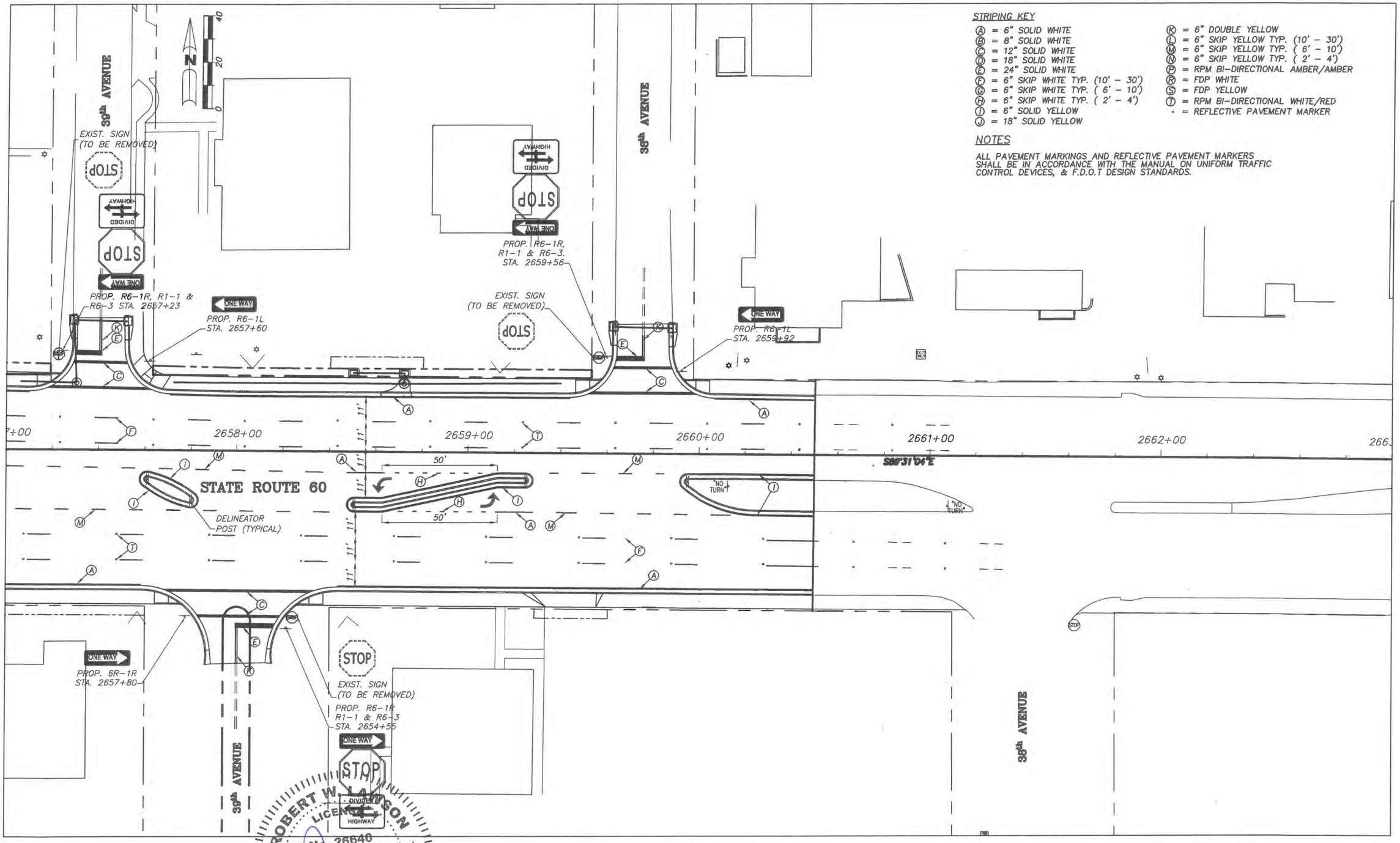

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