

Material(s) at Station 13+00.00

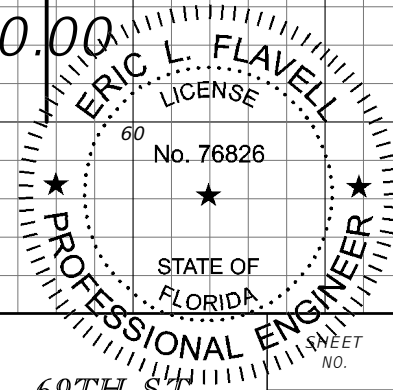
Material Name	Area
Asphalt Friction Course	3.15F
Asphalt Structural Course	5.45F
Overbuild	3.05F
Reclaimed Reclamation	6.85F
Full Depth Reclamation	20.35F
Base Material	5.45F
SubBase Material	11.55F
Cut Existing	20.85F
Fill Proposed	1.35F
Over Excavate	0.05F

Material(s) at Station 12+50.00

Material Name	Area
Asphalt Friction Course	0.05F
Asphalt Structural Course	0.05F
Overbuild	0.05F
Reclaimed Reclamation	0.05F
Full Depth Reclamation	0.05F
Base Material	0.05F
SubBase Material	0.05F
Cut Existing	0.05F
Fill Proposed	0.05F
Over Excavate	0.05F

SECTION LEGEND

	ASPHALT
	MILL & RESURFACE
	OVERBUILD (VARIES)
	FULL DEPTH RECLAMATION
	9" BASE MATERIAL
	12" STABILIZED SUBBASE
	CUT EXISTING MATERIAL
	STABILIZED FILL MATERIAL
	OVER-EXCAVATE MATERIAL



REVISIONS		DESCRIPTION	
DATE	DESCRIPTION	DATE	DESCRIPTION
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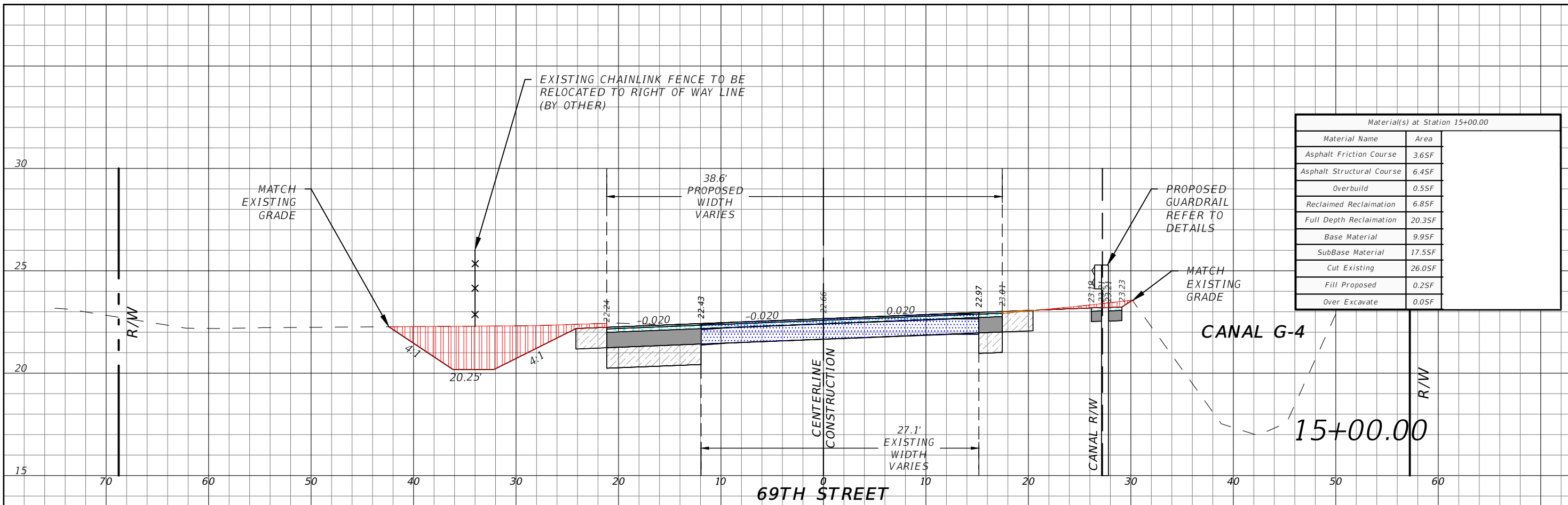
ERIC L. FLAVELL, P.E.
 P.E. LICENSE NUMBER 76826
 BOWMAN CONSULTING GROUP
 4450 W. EAU GALLIE BLVD.
 MELBOURNE, FL 32934
 CERTIFICATE OF AUTHORIZATION 30462

INDIAN RIVER COUNTY
 DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION
 ROAD NO. COUNTY FINANCIAL PROJECT ID
 CR-613 INDIAN RIVER IRC: 1325
 58th AVE FD01:436416-1-54-01

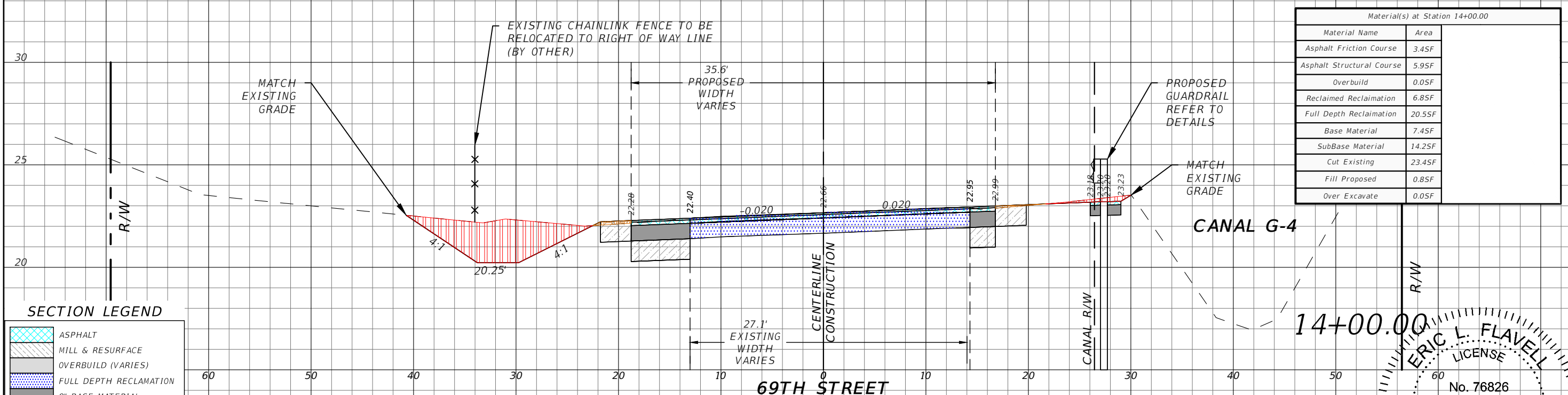
CROSS SECTIONS - 69TH ST

SHEET NO. 170

FOR BIDDING PURPOSES ONLY



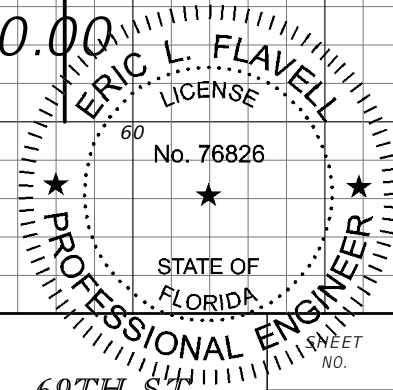
Material(s) at Station 15+00.00	
Material Name	Area
Asphalt Friction Course	3.65F
Asphalt Structural Course	6.45F
Overbuild	0.55F
Reclaimed Reclamation	6.85F
Full Depth Reclamation	20.35F
Base Material	9.95F
SubBase Material	17.55F
Cut Existing	26.05F
Fill Proposed	0.25F
Over Excavate	0.05F



Material(s) at Station 14+00.00	
Material Name	Area
Asphalt Friction Course	3.45F
Asphalt Structural Course	5.95F
Overbuild	0.05F
Reclaimed Reclamation	6.85F
Full Depth Reclamation	20.55F
Base Material	7.45F
SubBase Material	14.25F
Cut Existing	23.45F
Fill Proposed	0.85F
Over Excavate	0.05F

SECTION LEGEND

	ASPHALT
	MILL & RESURFACE
	OVERBUILD (VARIES)
	FULL DEPTH RECLAMATION
	9" BASE MATERIAL
	12" STABILIZED SUBBASE
	CUT EXISTING MATERIAL
	STABILIZED FILL MATERIAL
	OVER-EXCAVATE MATERIAL



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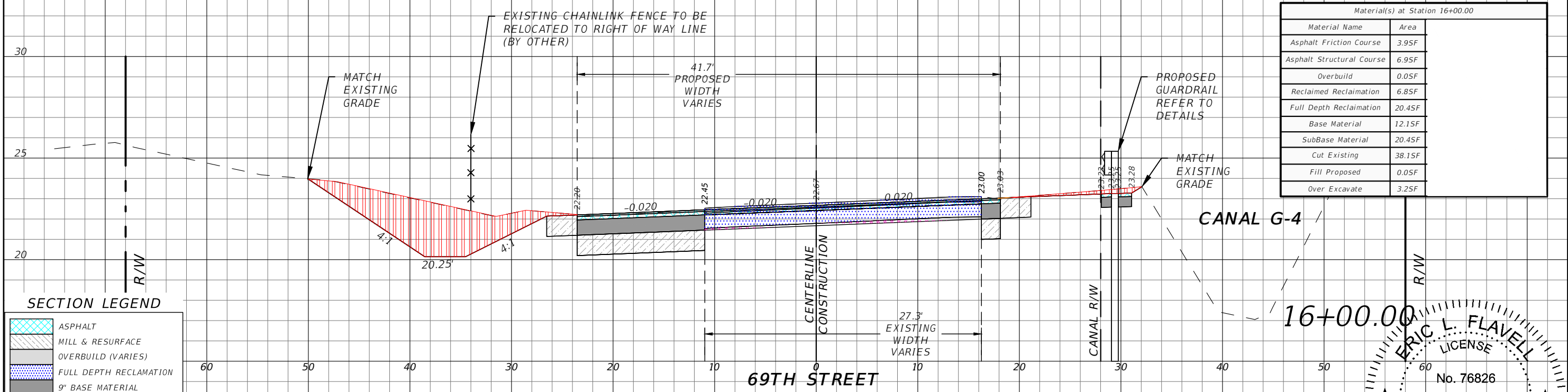
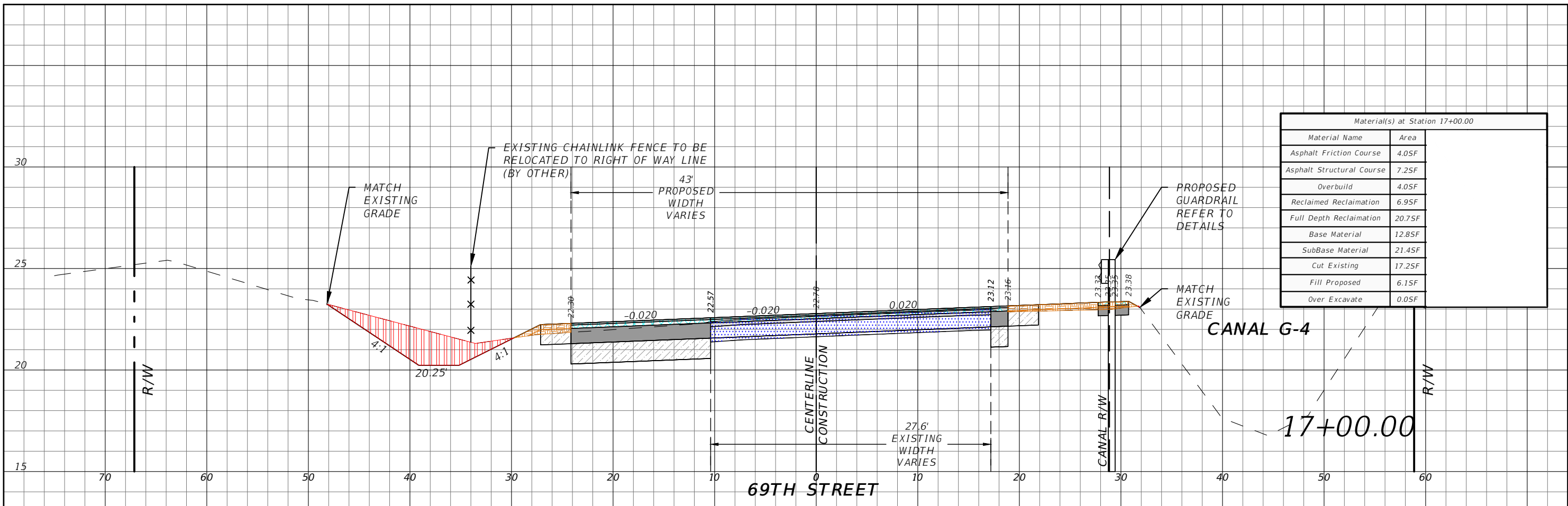
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CROSS SECTIONS - 69TH ST

SHEET NO. 171



SECTION LEGEND

	ASPHALT
	MILL & RESURFACE
	OVERBUILD (VARIES)
	FULL DEPTH RECLAMATION
	9" BASE MATERIAL
	12" STABILIZED SUBBASE
	CUT EXISTING MATERIAL
	STABILIZED FILL MATERIAL
	OVER-EXCAVATE MATERIAL

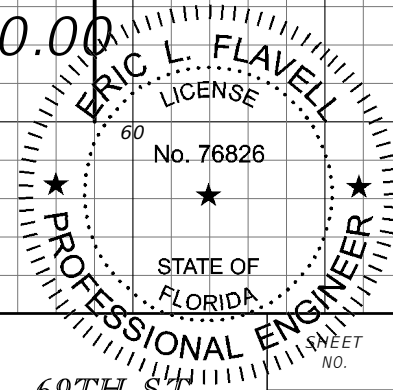
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DATE	DESCRIPTION

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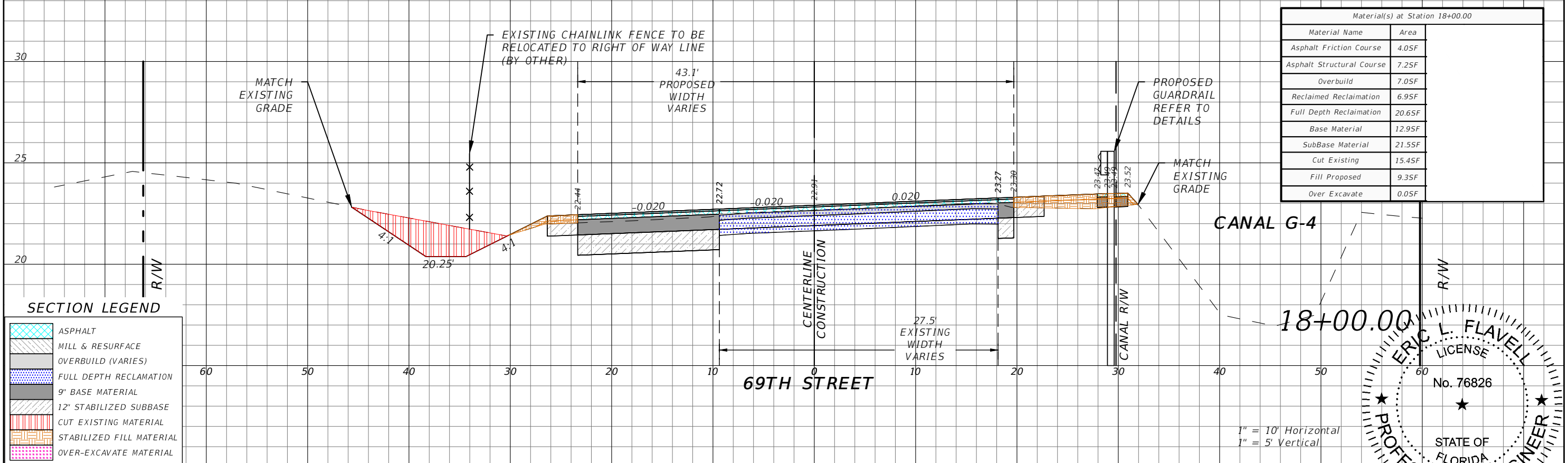
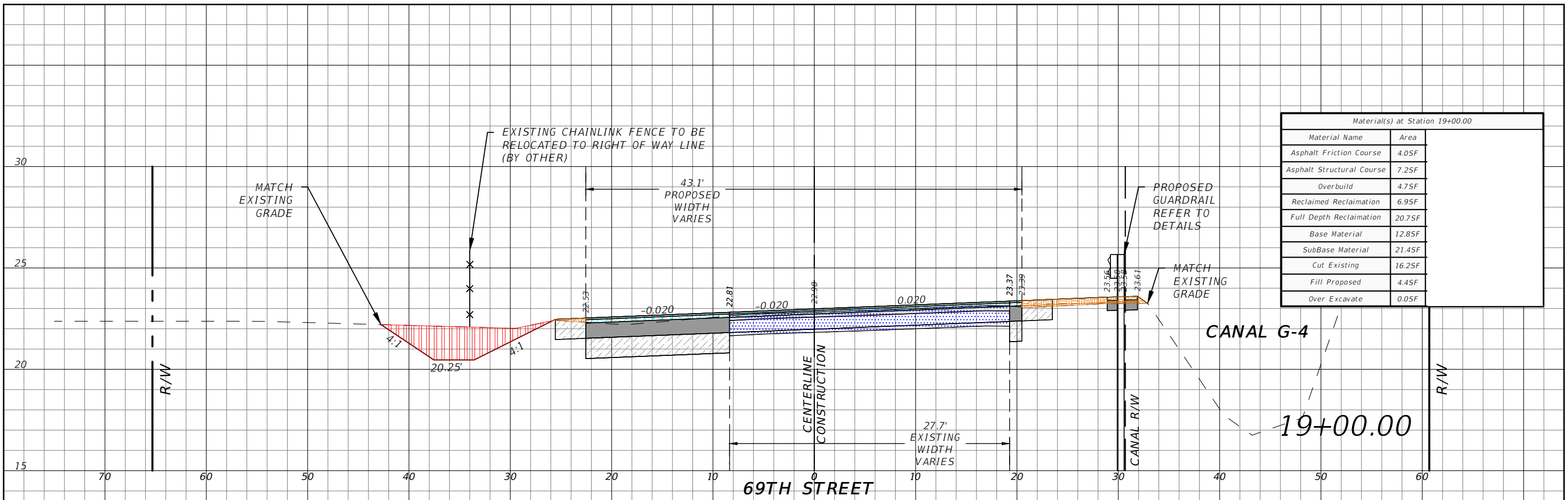
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CROSS SECTIONS - 69TH ST
 SHEET NO. 172



1" = 10' Horizontal
 1" = 5' Vertical



SECTION LEGEND

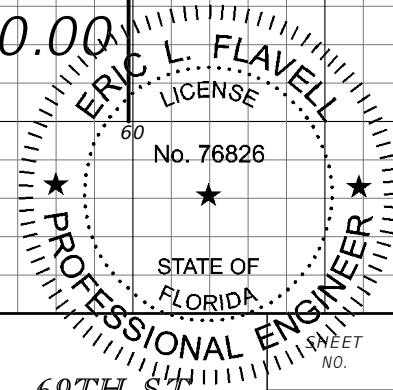
	ASPHALT
	MILL & RESURFACE
	OVERBUILD (VARIES)
	FULL DEPTH RECLAMATION
	9" BASE MATERIAL
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	CUT EXISTING MATERIAL
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REVISIONS	
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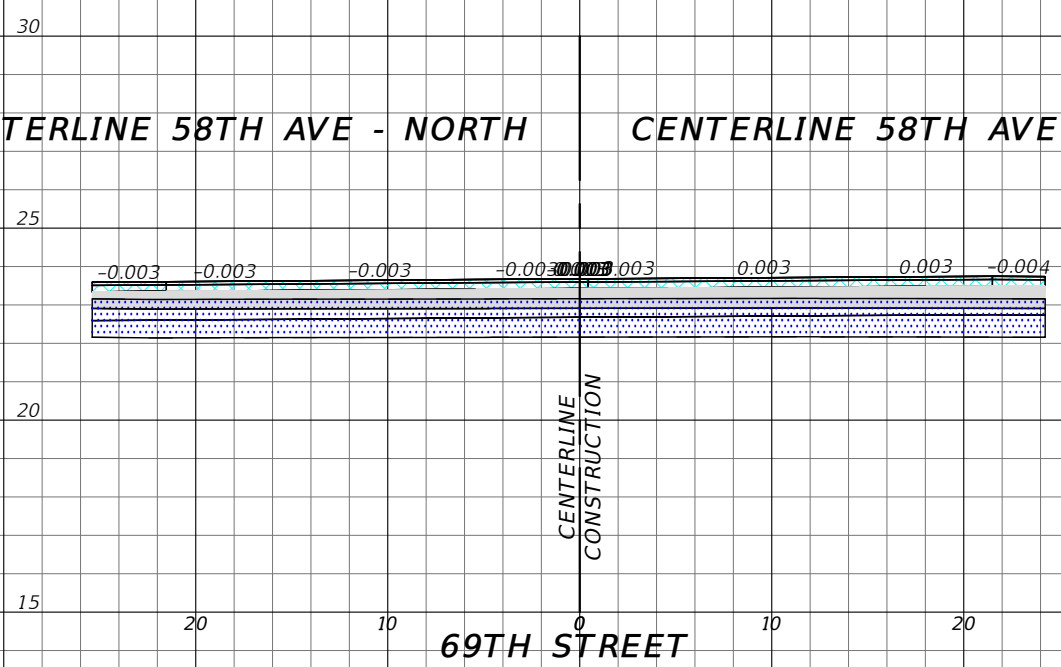
INDIAN RIVER COUNTY
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 58th AVE FD01:436416-1-54-01

CROSS SECTIONS - 69TH ST
 SHEET NO. 173



FOR BIDDING PURPOSES ONLY

CENTERLINE 58TH AVE - NORTH CENTERLINE 58TH AVE - SOUTH

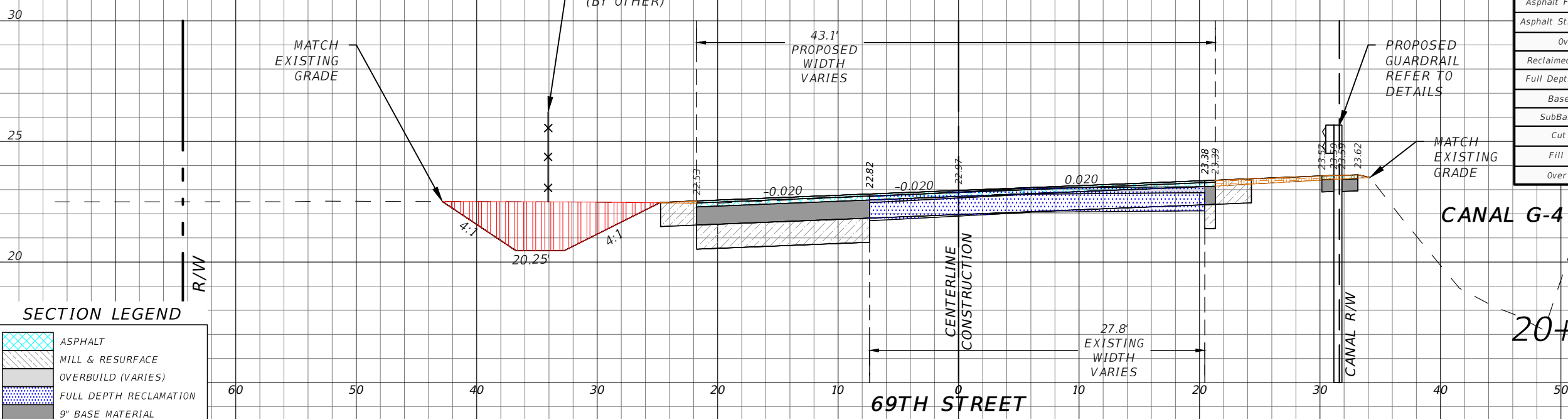


Material(s) at Station 21+00.00	
Material Name	Area
Asphalt Friction Course	4.15F
Asphalt Structural Course	8.35F
Overbuild	25.75F
Reclaimed Reclamation	12.45F
Full Depth Reclamation	37.25F
Base Material	0.25F
SubBase Material	0.05F
Cut Existing	0.05F
Fill Proposed	0.05F
Over Excavate	0.05F

21+00.00

69TH STREET

Material(s) at Station 20+00.00	
Material Name	Area
Asphalt Friction Course	4.05F
Asphalt Structural Course	7.25F
Overbuild	2.95F
Reclaimed Reclamation	7.05F
Full Depth Reclamation	20.95F
Base Material	12.75F
SubBase Material	21.25F
Cut Existing	22.35F
Fill Proposed	2.65F
Over Excavate	0.05F



SECTION LEGEND

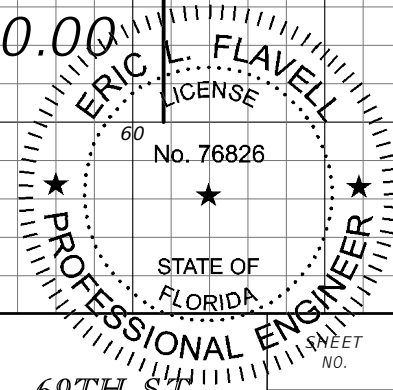
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	MILL & RESURFACE
	OVERBUILD (VARIES)
	FULL DEPTH RECLAMATION
	9" BASE MATERIAL
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	STABILIZED FILL MATERIAL
	OVER-EXCAVATE MATERIAL



69TH STREET

20+00.00

1" = 10' Horizontal
1" = 5' Vertical



REVISIONS	
DATE	DESCRIPTION
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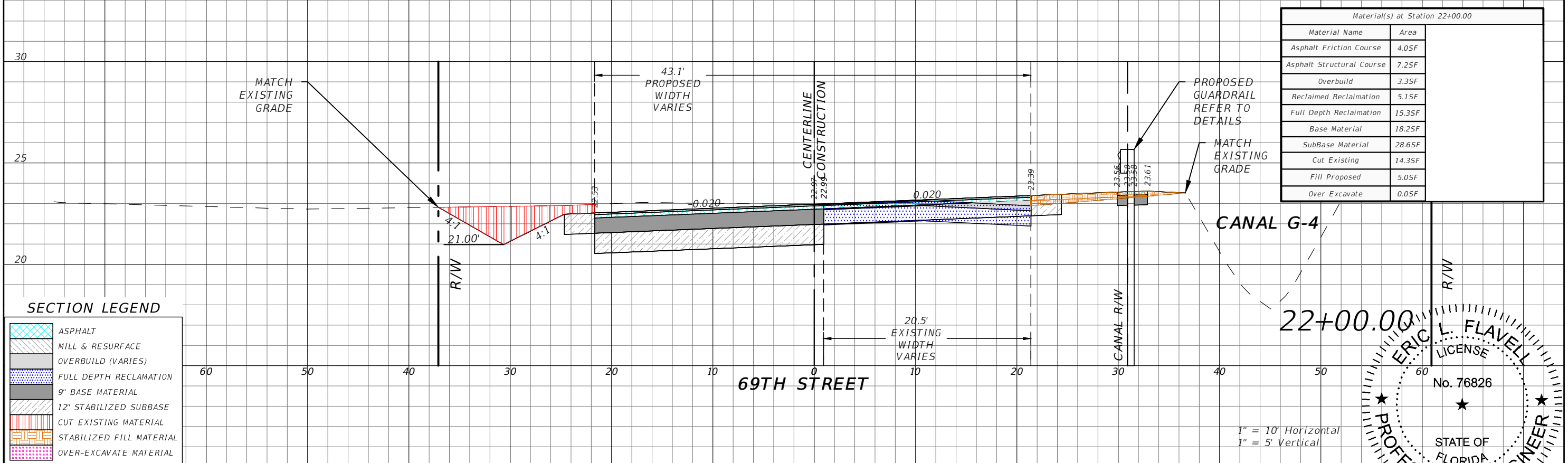
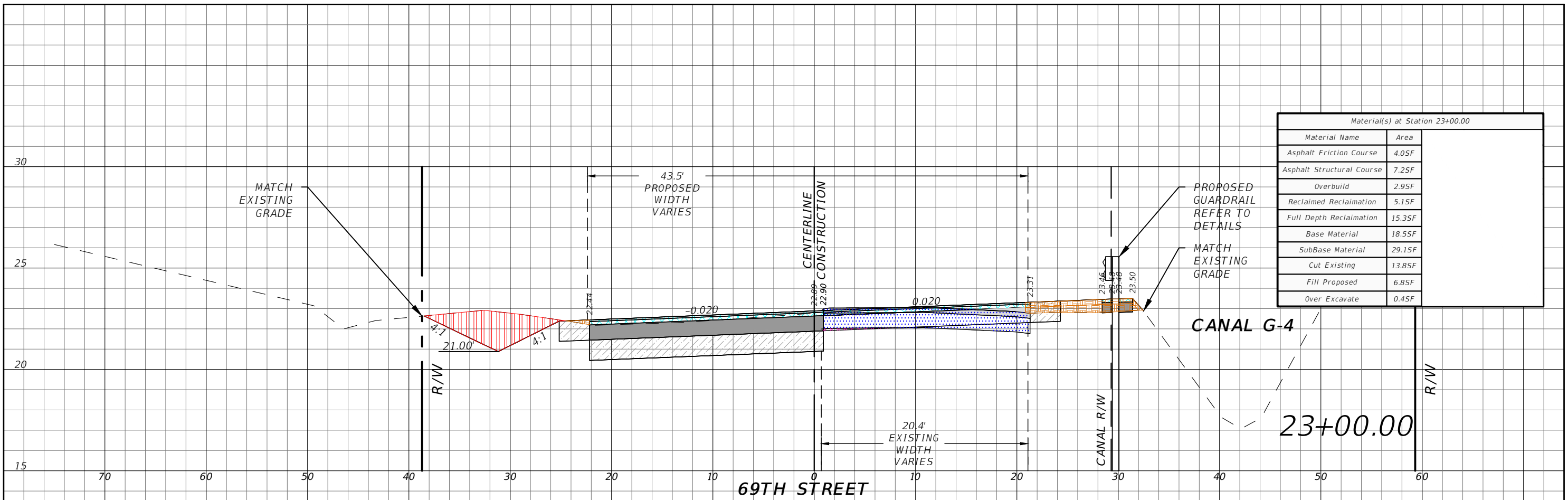
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58th AVE FD01:436416-1-54-01

CROSS SECTIONS - 69TH ST

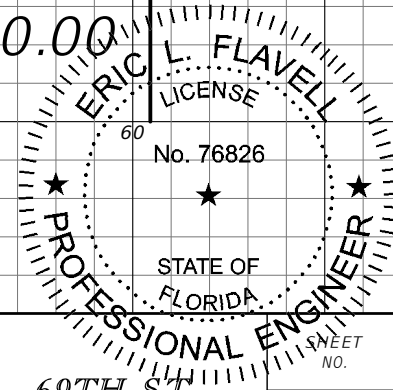
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SECTION LEGEND

	ASPHALT
	MILL & RESURFACE
	OVERBUILD (VARIES)
	FULL DEPTH RECLAMATION
	9" BASE MATERIAL
	12" STABILIZED SUBBASE
	CUT EXISTING MATERIAL
	STABILIZED FILL MATERIAL
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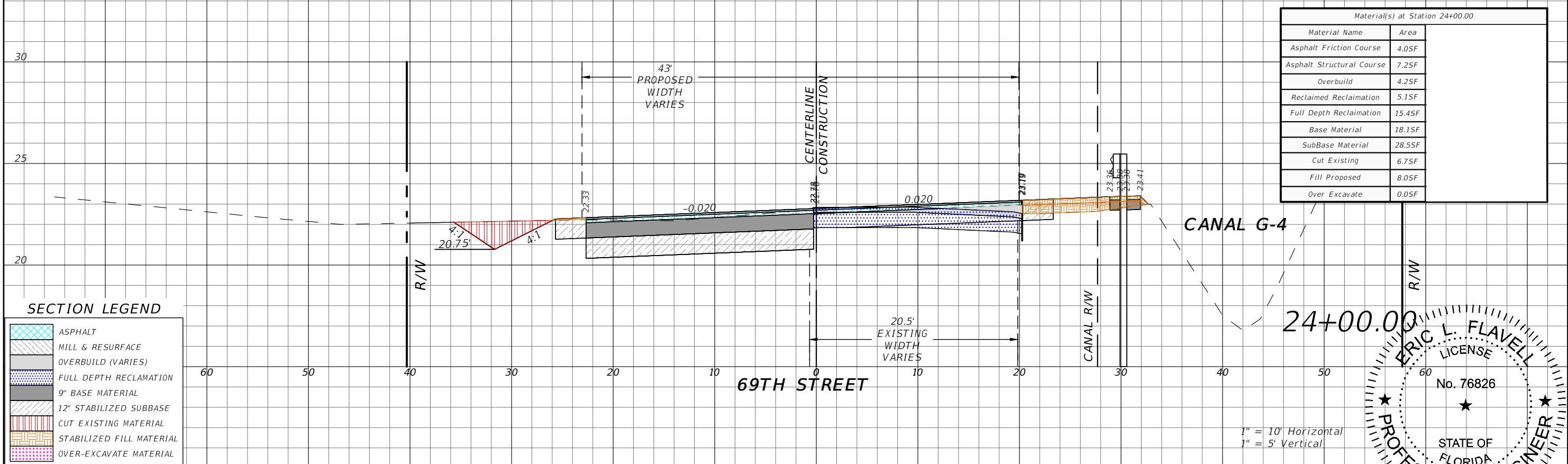
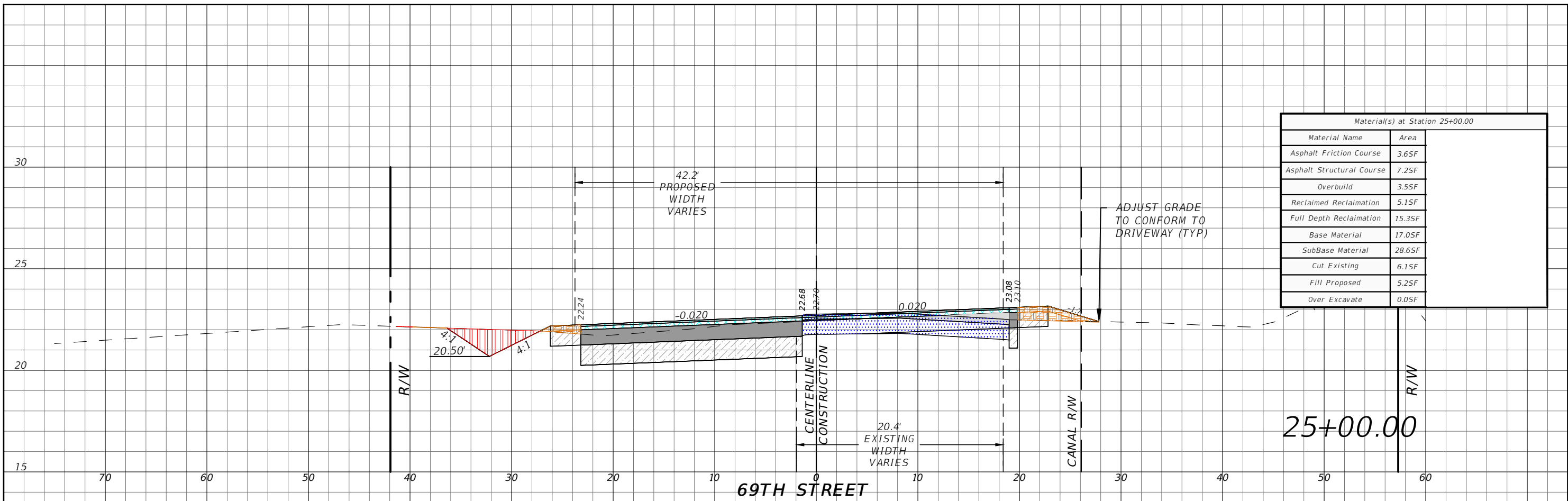
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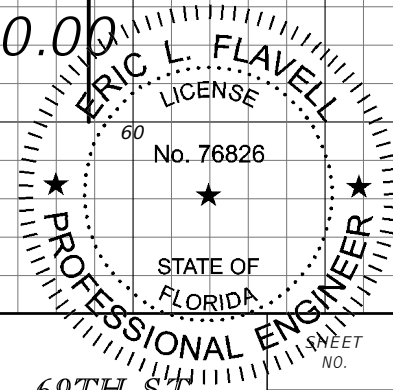
CROSS SECTIONS - 69TH ST

175



SECTION LEGEND

	ASPHALT
	MILL & RESURFACE
	OVERBUILD (VARIES)
	FULL DEPTH RECLAMATION
	9" BASE MATERIAL
	12" STABILIZED SUBBASE
	CUT EXISTING MATERIAL
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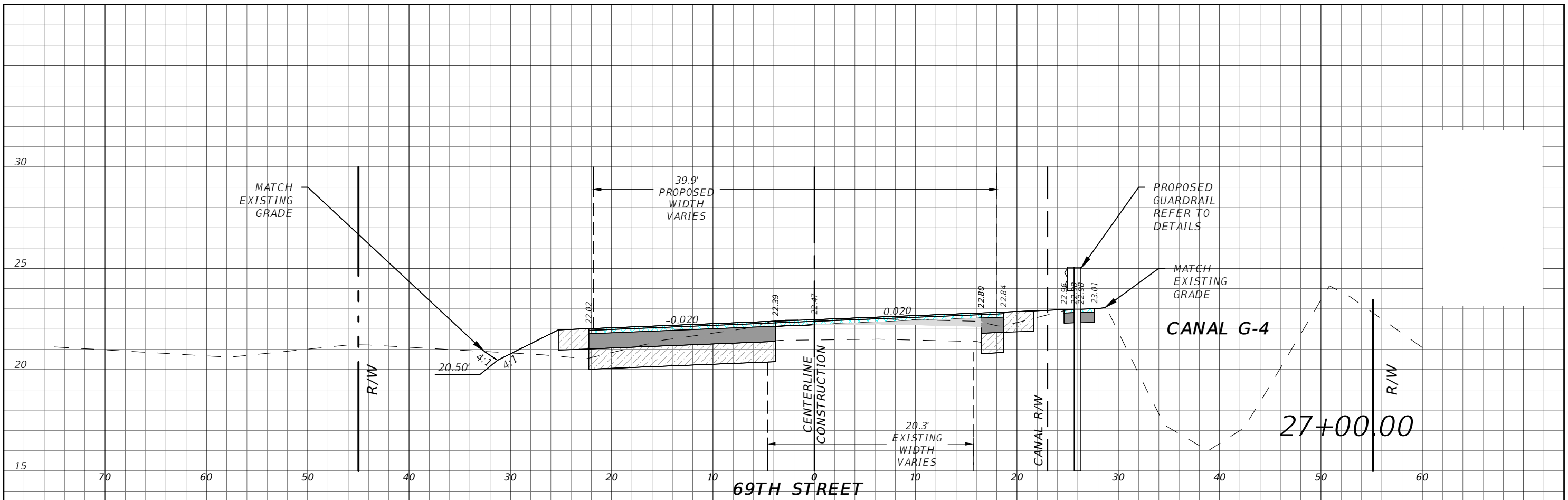
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CROSS SECTIONS - 69TH ST

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SECTION LEGEND

	ASPHALT
	MILL & RESURFACE
	OVERBUILD (VARIES)
	FULL DEPTH RECLAMATION
	9" BASE MATERIAL
	12" STABILIZED SUBBASE
	CUT EXISTING MATERIAL
	STABILIZED FILL MATERIAL
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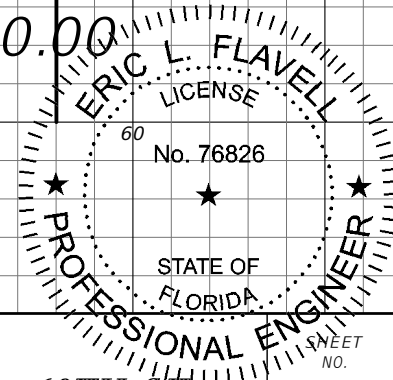
REVISIONS

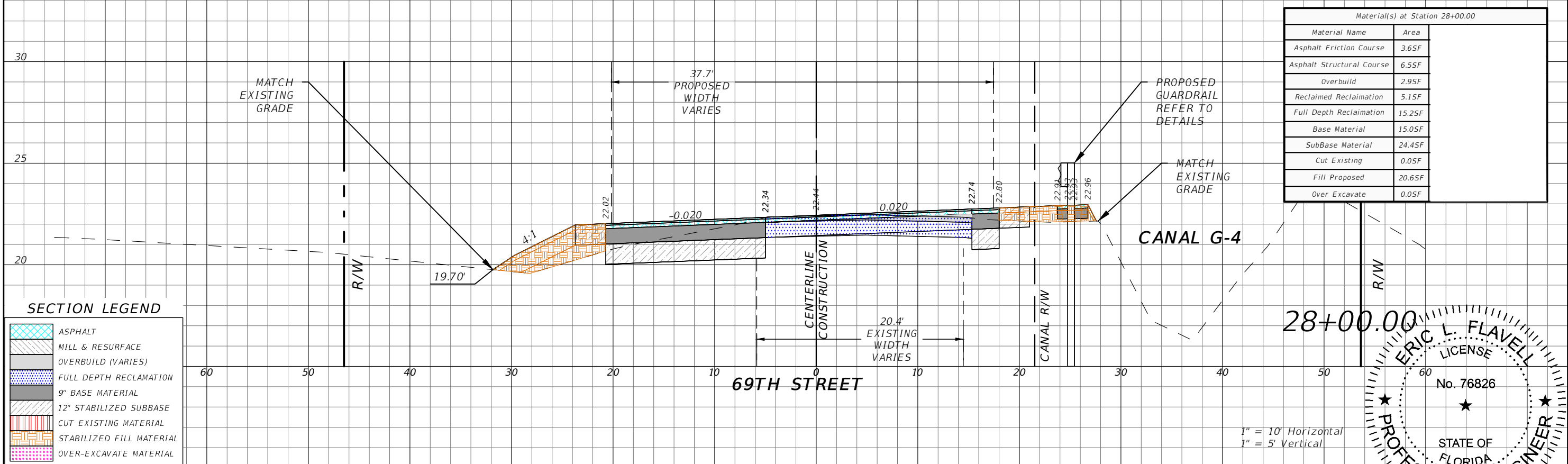
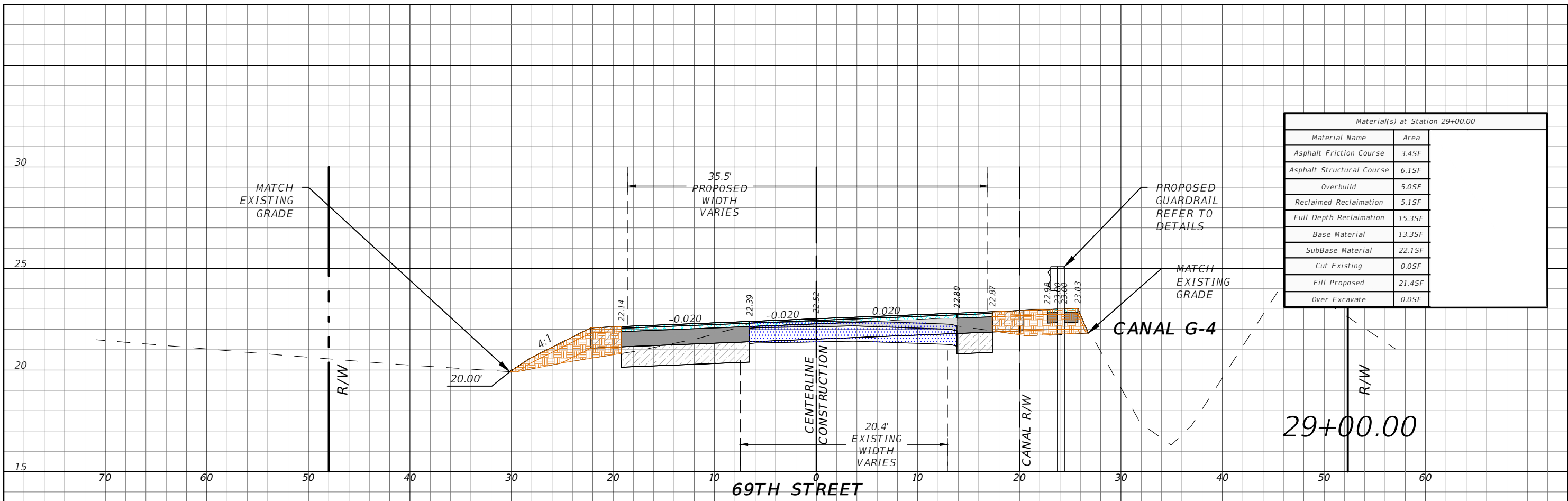
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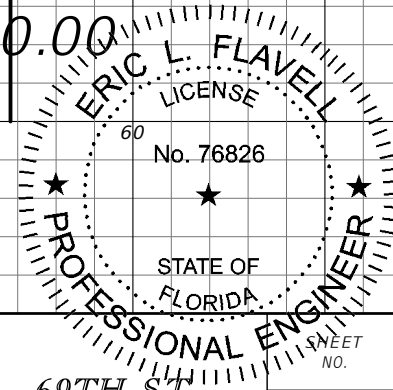
CROSS SECTIONS - 69TH ST





SECTION LEGEND

	ASPHALT
	MILL & RESURFACE
	OVERBUILD (VARIES)
	FULL DEPTH RECLAMATION
	9" BASE MATERIAL
	12" STABILIZED SUBBASE
	CUT EXISTING MATERIAL
	STABILIZED FILL MATERIAL
	OVER-EXCAVATE MATERIAL



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CROSS SECTIONS - 69TH ST

SHEET NO. 178

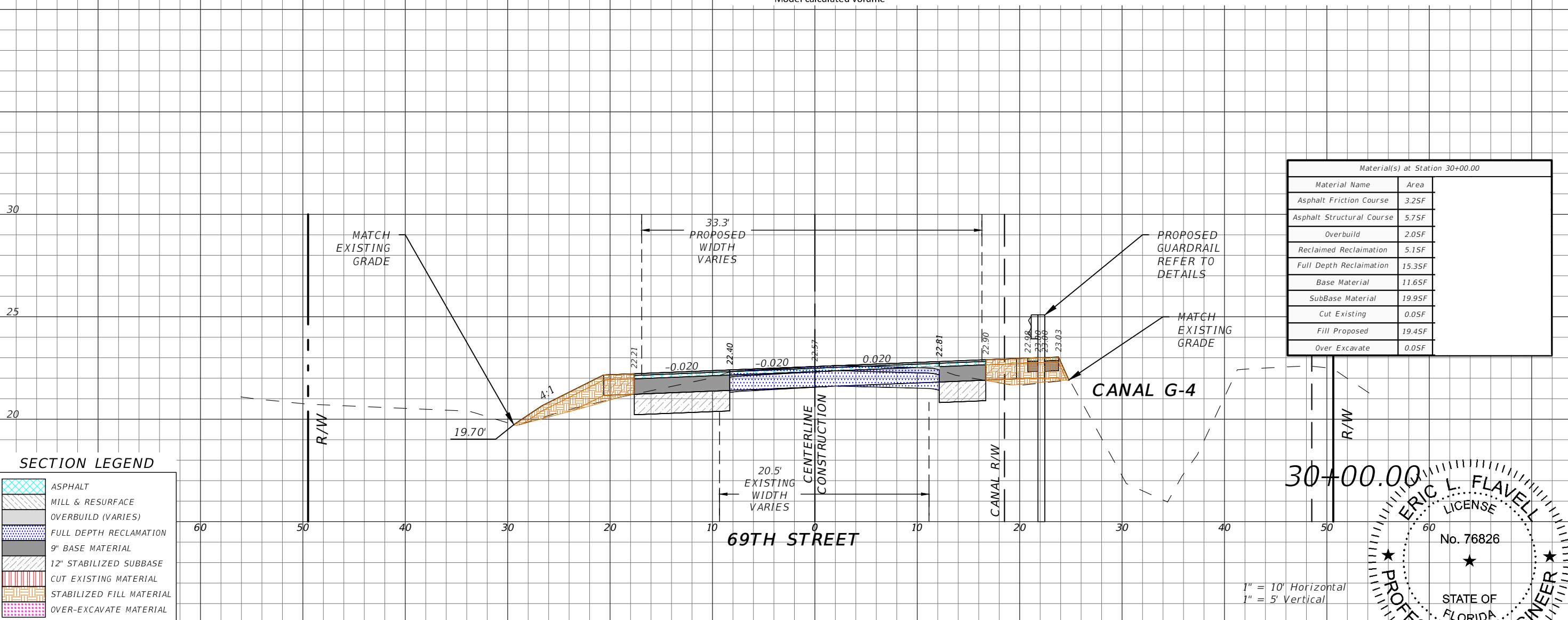
FOR BIDDING PURPOSES ONLY

Model Areas & Quantities 58th & 69th			
Pay Item	Bid Item 58th & 69th	Model Area (SF)	Model Area (SY)
120-1a	Excavation of Existing Asphalt & Base	3,108	345
160-4	Type B Stabilization, 12" thick	102,670	11,408 Stabilized Shoulder 13,153 Stabilized Subgrade
			24,561 Total Sabilized Material 12" Thick
327-70-1	Mill Existing Asphalt	21,752	2,417
332-1	Reclaimed Asphalt Base Coures (FDR 12")	646,378	71,820
334-13a	Type SP-12.5 (2" Thick)	751,715	83,524
334-13b	Type SP-12.5 (Variable Thickness)	18,038	2,004 See Tonnage calc below
334-13c	Type SP-12.5 (Driveway Remove/Replace)	3,240	360
337-7-82	Type FC-9.5 (1" Thick)	789,459	87,385
Existing Pavement Area		646,378	71,820
Widened Pavement Area		118,369	13,152
Overbuild 58th Ave, 9" equivalent		111,240	12,360
Overbuild 69th Street, 9" equivalent		10,008	1,112
Over Excavate 58th & 69th, 9" equivalent		22,824	2,536
Total Area of 9" equivalent FDR		908,819	100,980 For Calculating Admixture Quantity

FDR Additive Calculations for Bid Estimate					
Additive	Rate	Area Teated (SY)	Rate per 9"	Total	Unit
Emulsion	2.5% by Weight	100,980	2.5	252,450	Gal
Cement	3.0% by Weight	100,980	25	2,524,500	lbs
				1,262	ton

Model Volumes & Quantities 58th & 69th					
	Area (SF)	Depth (In)	Volume (CF)	Volume (CY)	Weight (TN)
Excavation for Widened Areas	118,369	12	118,369	4,384	
Excavation for ditches*				1,680	
Excavation for Road Overexcavation*				634	
120-1 Regular Excavation				6,698	Cut
120-1a Excavation of Existing Asphalt & Base					
120-2 Borrow Excavation (Reclaimed FDR - 3")	646,378	3	161,595	5,985	Total FDR Base Recovered
FDR for Widended Areas (9" Base)	118,369	9	88,777	3,288	
Overbuild 58th Ave*				3,090	
Overbuild 69th Street*				278	
Over Excavate 58th & 69th*				634	
FDR Driveways	3,108	9	2,331	86	
				7,376	Total Reclaimed FDR Base Needed
285-709 Optional Base, Group 9, LBR=100 Limerock				1,391	FDR Difference
120-6 Embankment *				4,140	Fill
334-13b Type SP-12.5 (Variable Thickness)	18,038	4	5,953		446 Ton

* Model calculated volume



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CROSS SECTIONS - 69TH ST

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