

STATE OF OHIO
DEPARTMENT OF HIGHWAYS

S-766(3)

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO	S-766(3)	

LAWRENCE COUNTY
LAW-522-0.75

LAW-522-0.75
ELIZABETH TOWNSHIP
LAWRENCE COUNTY

NOV 18 1964
GROUND PHOTOLAB

1961 SPECIFICATIONS

The standard specifications of the State of Ohio, Department of Highways, including changes and supplemental specifications listed in the proposal shall govern this improvement.

The right of way for this improvement will be provided by the State of Ohio.

I hereby approve these plans and declare that the making of this improvement will not require the closing of the highway to traffic and that provisions for the maintenance and safety of traffic will be as set forth on these plans and estimates.

Approved *R. Carson Backlow*
Date 3-2-62 Division Deputy Director

Approved *W. A. Overman*
Date 3-26-62 Engineer of Bridges

Approved *W. J. McManis*
Date 4-3-62 Engineer of Location & Design

Approved *C. W. M. Gough*
Date 4-5-62 Deputy Director of Design & Construction

Approved *W. J. Dunn*
Date 4-3-62 Deputy Director of Right of Way

Approved *Lucy E. Hooper*
Date 4-16-62 Deputy Director of Planning & Programming

Approved *W. A. Berry*
Date 4-16-62 First Assistant Director

Approved *E. A. Preston*
Date 4-16-62 Director of Highways

CONVENTIONAL SIGNS

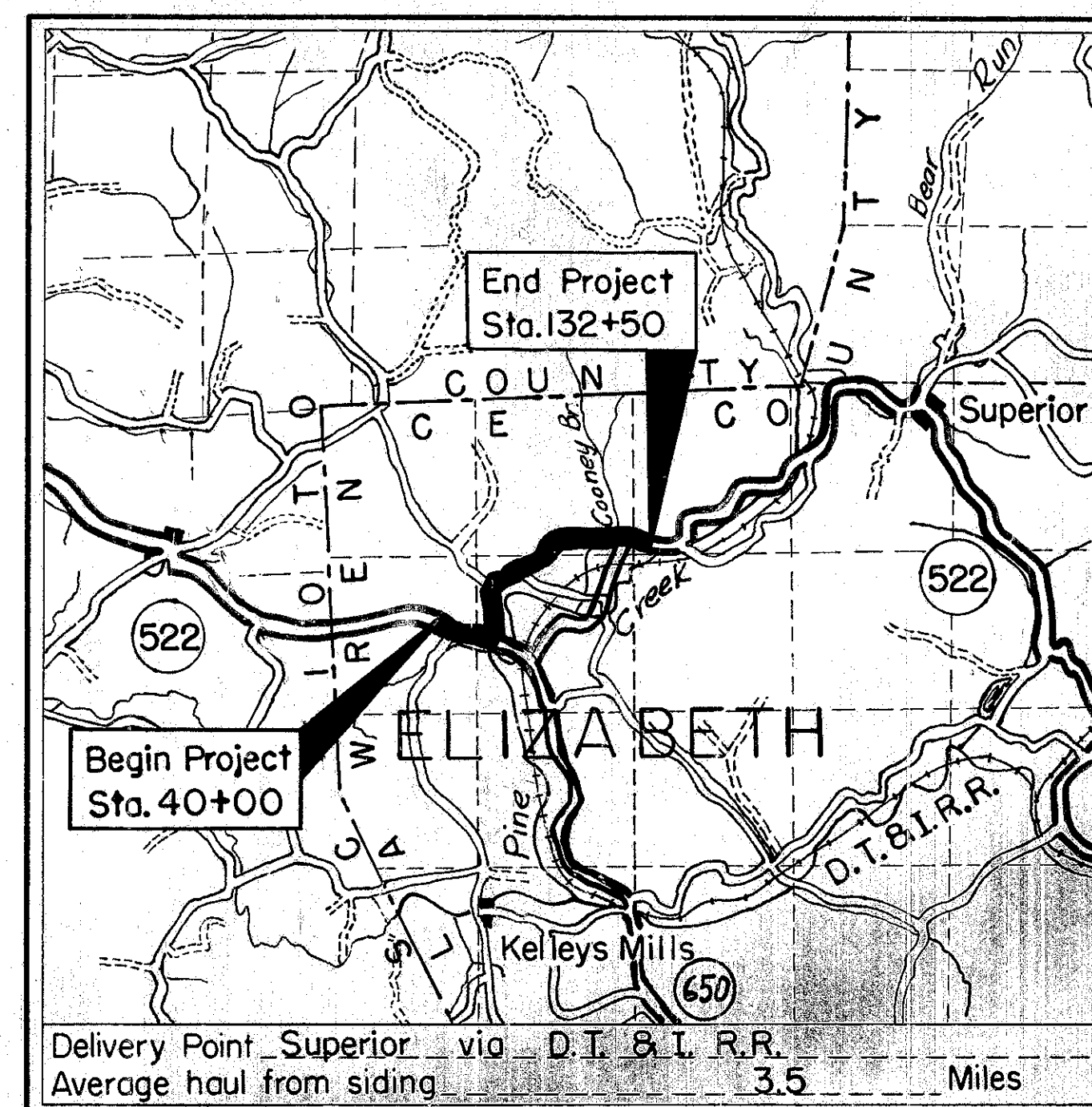
State Line	
County Line	
Township Line	
Section Line	
Center Line	
Corporation Line	
Fence Line	x x x x x
Guard Rail (existing)	o o o o o o o o o
Guard Rail (proposed)	o o o o o o o o o
Steam Railroad	
Power Poles	⊕ ⊕ ⊕ ⊕
Telephone Poles	⊕ ⊕ ⊕ ⊕
Trees (existing)	⊗ ⊗ ⊗ ⊗
Trees (to be removed)	⊗ ⊗ ⊗ ⊗

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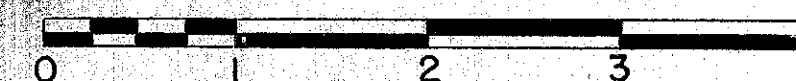
LINE DATA

Begin Project	Sta. 40+00
End Project	Sta. 132+50
Net Length of Project	9250 Lin. Ft. or 1.751 Miles
Add for Approaches	
Sta. 39+00 to Sta. 40+00	100 Lin. Ft.
Sta. 132+50 to Sta. 134+00	150 Lin. Ft.
Net Length of Work	9500 Lin. Ft. or 1.799 Miles



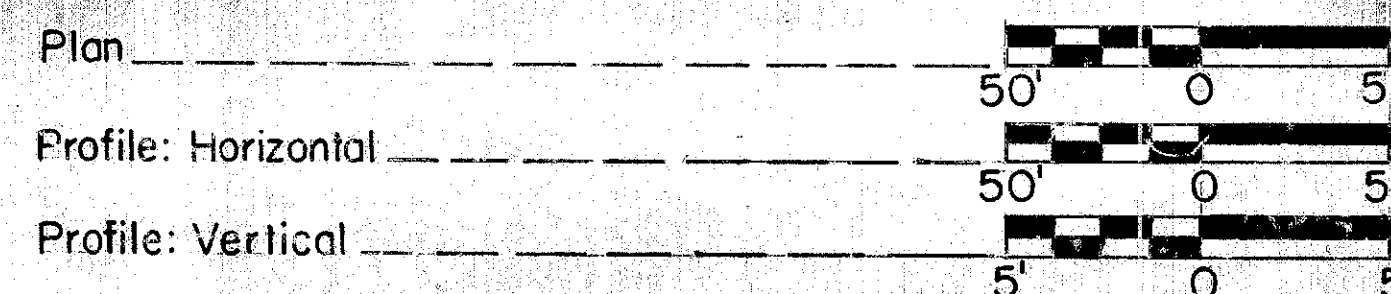
LOCATION MAP

SCALE OF MILES



Portion to be improved
State Roads
Other Roads

SCALE



NOV 18 1964
GROUND PHOTOLAB

Supplemental Prints of Standard Construction Drawings					
G-7.07	6-1-56	L-3	4-1-50	T-35	1-2-56
I-1	11-15-60	L-3-A	4-1-50	FACI-1	12-27-61
I-146	1-22-52	L-1	4-1-50	FACI-2	12-27-61
I-15 No. 1	11-15-60	DR-1	1-3-55	HWE	11-15-60
		S.P. 53	6-30-61	HW-D	11-15-60
I-15 No. 2-A	8-17-60	I-B.C.B. 2-2-A&B	3-2-59	CS-1-54 (2.5h)	7-16-56
AS-1-54	12-1-54	RI-1	7-15-58	P-1-54	2-2-59

Supplemental Specifications	
I-128	7-31-59
I-129	Rev. 4-5-61
M-101.18	Rev. 4-3-61
M-109.28	Rev. 8-12-59

APPROVED:

DIVISION ENGINEER

DATE

File No.	LAWRENCE COUNTY LAW-522-0.75
Date of Letting	19
Contract No.	

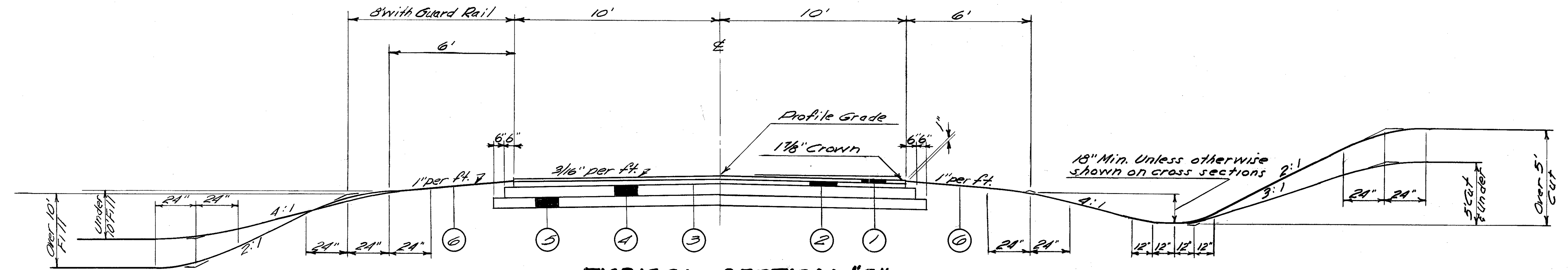
TYPICAL SECTION

TYPE T-35 on B-19
Scale $\frac{3}{8}" = 1'-0"$

FED. RD. DIVISION	STATE	PROJECT
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LAW-522-075

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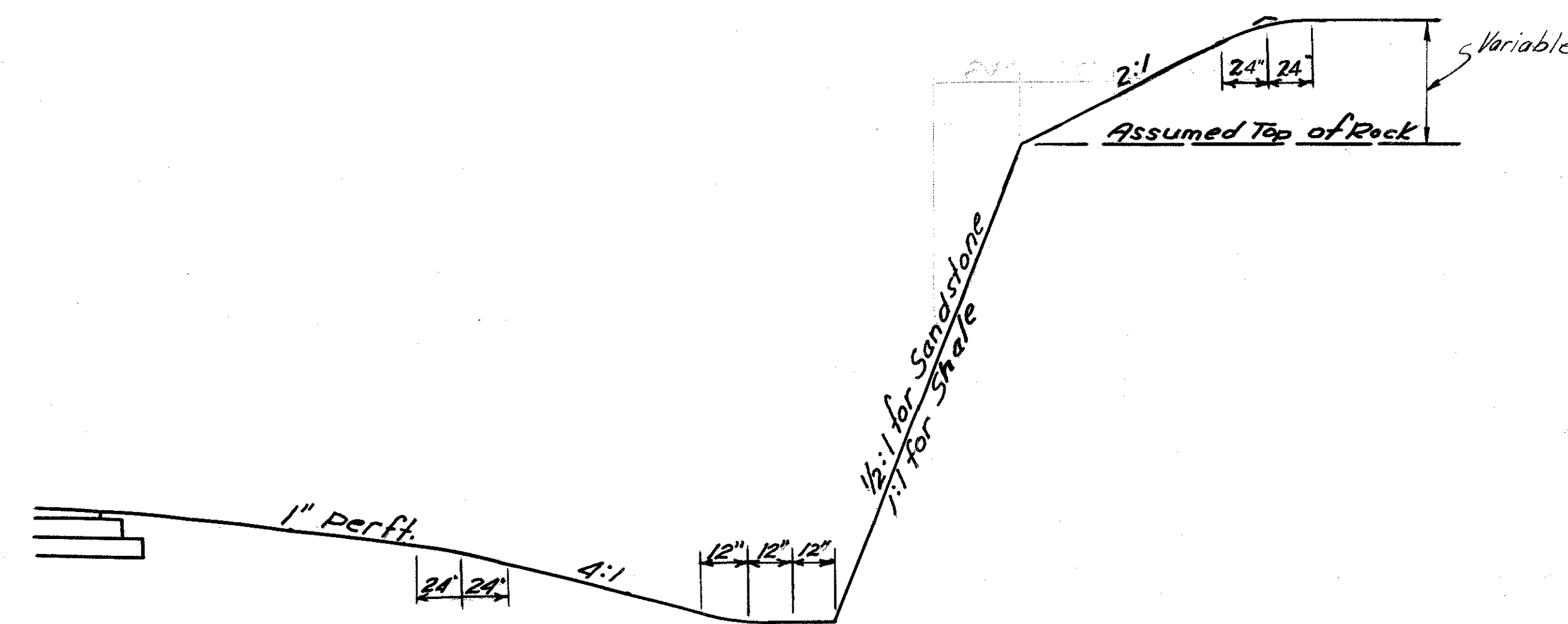


TYPICAL SECTION "A"

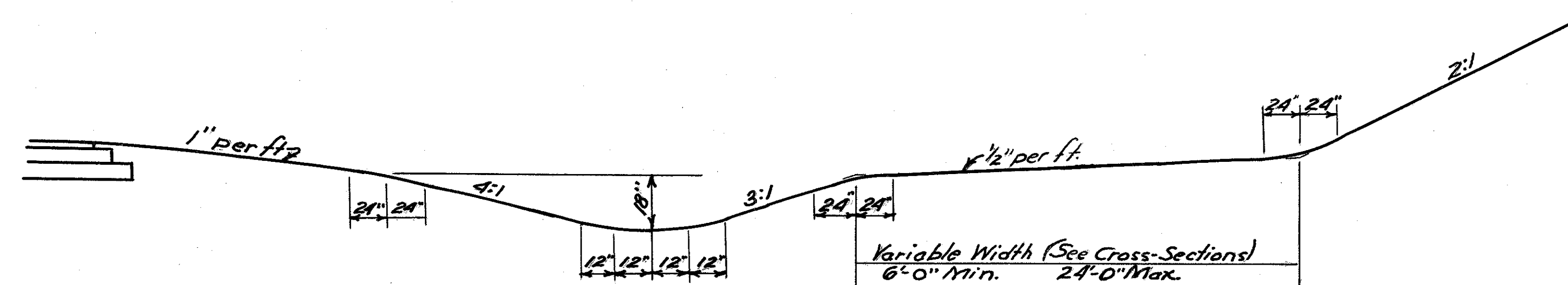
The above typical section applies between the following stations

STA. 40+00 to STA. 132+50

9250.00 Lin. Ft.
Less 109.54 Lin. Ft. Bridge Law 522-0217 Sta 114+91.77 to Sta. 114+12.23
9140.46 Plus approach slabs, 30 Ft.



PART SECTION OF ROCK CUT



PART SECTION OF BENCH IN CUT (See Cross Sections)

* Thicknesses as shown are "designed" thicknesses as described in Sections T-35.01 & B-35.01.

LEGEND

- ① * Item T-35 1 1/4" Asphaltic Concrete Surface Course Type "C" (85-100)
- ② * Item B-35 1 3/4" Asphaltic Concrete Leveling Course (85-100)
- ③ Item T-30 Bituminous Prime Coat Sec. M-5.7, RT-2 or RT-3 applied at the rate of 0.40 gals. per Sq. Yd.
- ④ Item B-19 6" Aggregate Base Course
- ⑤ Item I-22 6" Subbase
- ⑥ Item L-9 Seeding and Protecting

488

Prop. I-9 Underdrains

50' 50' 50' 50'

25'

Prop. 4

Prop. I-9 Underdrains

50' 50' 50' 50'

Hand-drawn cross-section diagram of a road profile. The diagram shows a road surface sloping downwards from left to right. The slope is labeled "1" per ft." and "1" Min. slope". The road surface is labeled "Perm." and "Pav't". The road width is labeled "18"". The road is shown crossing a boundary line, with the area to the right of the boundary labeled "A".

SECTION "A"-"A"

**PART SECTION SHOWING I-9
STONE UNDERDRAINS NO 2**

[illegible][illegible]

4' 12' 4'

3/8" per ft

1" per ft

6" B-10

**TYPICAL SECTION
OF FIELD DRIVE**

Note: Residence drives shall be constructed of 2" T-35, Type "C" and 5" B-19 to the back of the radius and 8" B-19 for the remainder of the reconstructed driveway.

**DETAIL OF
GUARD RAIL SECTION**
See Standard Dwg. RI-1

Var. as per plan

Same Elev.

2'

DETAIL OF SOD DITCH

6" Thickness for Conc.
9" Thickness for Riprap

Note:
Unit price bid per Lin Ft. of Item I-1, F-1
8" pipe outlet for underdrains, shall include
furnishing & placing Concrete slab or riprap

**PART SECTION SHOWING
I-1, I-3 UNDERDRAIN**

FEATHER AND TRANSITION AREAS
 The above applies between the following Stations
 Sta. 39+50 to Sta. 40+00
 Sta. 132+50 to Sta. 133+00
 Scale: Horizontal - 1"=10', Vertical - 1"=1'

NOTES

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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LAWRENCE COUNTY
LAW-522 - 0.75

CONTRACTOR'S MAINTENANCE RESPONSIBILITY

ON THIS PROJECT, THE CONTRACTOR'S RESPONSIBILITY FOR MAINTENANCE OF THE EXISTING PAVEMENT PER SEC. G-7.07 SHALL BE LIMITED TO THOSE PORTIONS OF THE EXISTING PAVEMENT LYING WITHIN THE PROPOSED WORK LIMITS.

FIELD OFFICES

THE CONTRACTOR SHALL PROVIDE A SUITABLE FIELD OFFICE FOR THE EXCLUSIVE USE OF THE STATE EMPLOYEES, IN ACCORDANCE WITH SECTION S-0.01 (B), HAVING A MINIMUM OF 300 SQ. FT. OF FLOOR SPACE. THE CONTRACTOR SHALL HAVE A TELEPHONE INSTALLED AND MAINTAINED IN THE FIELD OFFICE DURING THE CONSTRUCTION OF THIS PROJECT. CONTRACTOR SHALL ALSO INSTALL WIRING AND OUTLETS SUITABLE FOR CONNECTING THE ELECTRICAL OFFICE EQUIPMENT. HE SHALL PROVIDE 110 VOLT ALTERNATING CURRENT DURING THE CONSTRUCTION OF THIS PROJECT.

DESIGN SPEED

THE GEOMETRICS FOR THIS PROJECT HAVE BEEN PLANNED FOR A DESIGN SPEED OF 40 MILES PER HOUR.

SPECIAL DITCHES

FOR SPECIAL DITCH GRADES, SEE CROSS SECTIONS.

UTILITIES

THE CONTRACTOR SHALL NOTIFY AT LEAST 48 HOURS BEFORE BREAKING GROUND ALL PUBLIC SERVICE CORPORATIONS HAVING WIRE, POLES, PIPE, CONDUITS, MANHOLES OR OTHER STRUCTURES THAT MAY BE AFFECTED BY THIS OPERATION, INCLUDING ALL STRUCTURES WHICH ARE AFFECTED AND NOT SHOWN ON THESE PLANS. ANY AND ALL WORK REQUIRED FOR PUBLIC OR PRIVATE UTILITIES WILL BE DONE BY AND AT THE EXPENSE OF THEIR RESPECTIVE OWNERS, UNLESS OTHERWISE NOTED ON THESE PLANS.

ROUNDING OF CORNERS ON CROSS SECTIONS

THE ROUNDED CORNERS, SHOWN ON STANDARD DRAWING PI-1, APPLY TO ALL CROSS SECTIONS EVEN THOUGH OTHERWISE SHOWN IN THESE PLANS.

R/W MONUMENTS, FEDERAL PROJECT MARKERS AND SECTION MARKERS

EXISTING R/W MONUMENTS, BENCH MARKS, FEDERAL PROJECT MARKERS AND SECTION MARKERS THAT WILL BE REMOVED BY CONSTRUCTION, SHALL BE PROTECTED BY THE CONTRACTOR AS PER SECTION G-7.09 UNTIL THEY CAN BE WITNESSED, REFERENCED AND RESET BY THE CONSTRUCTION CREW.

ELEVATION DATUM

ALL ELEVATIONS ARE BASED ON U.S.G.S. DATUM.

LOCATION AND SIZE OF PIPES

THE LOCATION, TYPE, DEPTH AND SIZE OF ALL EXISTING PIPES ARE SHOWN AS NEAR EXACT AS THE AVAILABLE INFORMATION WILL PERMIT. THE STATE WILL NOT BE RESPONSIBLE FOR ANY VARIATIONS FOUND DURING CONSTRUCTION.

EXISTING FLEXIBLE PAVEMENT OUTSIDE CONSTRUCTION LIMITS

OUTSIDE THE LIMITS OF CONSTRUCTION THE EXISTING FLEXIBLE PAVEMENT SHALL BE THOROUGHLY SCARIFIED AND MIXED WITH SUFFICIENT SOIL, AND DITCHES SHALL BE FILLED AND SHAPED TO FIT THE SURROUNDING TERRAIN IN SUCH A MANNER AS TO INSURE DRAINAGE AND THE GROWTH OF SEED PLANTED THEREON. PAYMENT FOR THE ABOVE SHALL BE INCLUDED IN THE UNIT PRICE ~~BID FOR~~ ITEM E-1, ROADWAY EXCAVATION, METHOD "B"

EXCAVATION FOR ITEM B-19

EXCAVATION FOR B-19 MATERIAL USED ON SIDE ROAD APPROACHES, MAIL BOX TURNOUTS AND DRIVES HAS BEEN INCLUDED IN EARTHWORK QUANTITIES WHEN SAME IS IN "CUT". WHERE SIDE ROAD APPROACHES, MAIL BOX TURNOUTS AND DRIVES ARE IN "FILL", EXCAVATION FOR B-19 MATERIAL SHALL BE MADE BY THE CONTRACTOR AT HIS OWN EXPENSE IF HE BUILDS THE EMBANKMENT UP TO FINISH GRADE BEFORE PLACING THE B-19 MATERIAL.

L-9 COMMERCIAL FERTILIZER

ALL AREAS TO BE SEEDED UNDER ITEM L-9, OR SODDED UNDER ITEM L-10, SHALL BE FERTILIZED USING COMMERCIAL FERTILIZER (12-12-12).

SEEDING AND PROTECTING ROADWAY AREAS

QUANTITIES FOR SEEDING ARE CALCULATED FOR THE SOIL AREAS WITHIN THE WORK LIMITS AS SHOWN ON THE CROSS SECTIONS AND PAYMENT SHALL NOT BE MADE FOR SEEDING BEYOND THESE LIMITS.

AGRICULTURAL LIMING MATERIALS

THE LOCATION AND NEED FOR AGRICULTURAL LIMING MATERIALS WILL BE DETERMINED BY LABORATORY TESTS AFTER ROUGH GRADING OPERATIONS HAVE BEEN PERFORMED. QUANTITIES OF AGRICULTURAL LIMING MATERIALS AS SHOWN ON THE PLANS ARE SUFFICIENT FOR THE ENTIRE PROJECT, BUT WILL BE NON-PERFORMED FOR THE AREAS WHERE TESTS SHOW THAT THE LIMING MATERIAL IS NOT NEEDED.

EROSION CONTROL

ITEM L-10 SODDING, I-10 RIPRAP AND I-14 PAVED GUTTER, I-10 DUMPED ROCK CHANNEL PROTECTION AND I-10 DUMPED ROCK FILL ARE PROVIDED ON THE PLANS FOR EROSION CONTROL. THE ENGINEER SHALL CHECK AND MAKE ADJUSTMENTS IN THE LOCATION AND QUANTITIES FOR THESE ITEMS WHERE INDICATED BY FIELD CONDITIONS DURING CONSTRUCTION. SHOULD ROCK OF A STABLE NATURE BE ENCOUNTERED AT FLOW LINE OF ANY OF THESE ITEMS, THEY MAY BE NON-PERFORMED.

REMOVAL OF TREES AND STUMPS

ALL TREES AND STUMPS LYING WITHIN THE CONSTRUCTION LIMITS OF THIS PROJECT SHALL BE REMOVED UNDER THE LUMP SUM BID FOR REMOVAL OF TREES AND STUMPS, ITEM E-9, UNLESS WORK IS INDICATED IN THESE PLANS TO PRESERVE SAME. THE STATE OF OHIO RESERVES THE RIGHT TO ORDER THE REMOVAL OF ADDITIONAL TREES OR STUMPS OUTSIDE OF THE LIMITS OF CONSTRUCTION BUT WITHIN RIGHT-OF-WAY LINES. PAYMENT FOR THE REMOVAL OF THESE ADDITIONAL TREES OR STUMPS IS INCLUDED FOR PAYMENT IN THE LUMP SUM BID UNDER ITEM E-9, REMOVAL OF TREES AND STUMPS.

DRAINAGE OF SUBBASE MATERIAL

WHERE THE SUBBASE MATERIAL IS DRAINED BY I-9 STONE UNDERDRAINS OR BY EXTENSIONS THROUGH THE SHOULDERS TO THE FILL SLOPE OR THE DITCH LINE, THE CONTRACTOR SHALL FINISH, SEED AND MULCH THE SLOPES SO AS NOT TO IMPEDE DRAINAGE OF THE SUBBASE MATERIAL. THE ACTUAL AREA OF THE OUT-CROP OF THE SUBBASE MATERIAL OR I-9 UNDERDRAIN SHALL NOT BE SEEDED.

STONE UNDERDRAINS, NO. 2

NO. 2 STONE UNDERDRAINS HAVE BEEN ESTIMATED ON THIS PROJECT AT 50 FT. INTERVALS ON EACH SIDE WHERE I-3 DRAINAGE IS NOT PROVIDED. THEY SHALL BE PLACED NOT OVER 50 FT. APART. THIS QUANTITY IS TO BE USED IN ITS ENTIRETY.

PART WIDTH CONSTRUCTION FOR FLEXIBLE PAVEMENT

BECAUSE OF THE NECESSITY OF BUILDING THIS PROJECT UNDER TRAFFIC AND CONSTRUCTING THE PAVEMENT PART AT A TIME, EXTREME CARE SHALL BE TAKEN TO PREVENT THE CONSTRUCTION OF A BUTT JOINT ON CENTERLINE IN THE B-19 AND I-22 COURSES. THIS SHALL BE ACCOMPLISHED BY BUILDING THE B-19 AND I-22 COURSES, PLACED WITH THE FIRST PORTION OF THE PAVEMENT BUILT, AT LEAST EIGHTEEN (18) INCHES BEYOND THE CENTERLINE AND BY SURFACING NO CLOSER THAN EIGHTEEN (18) INCHES TO THIS EDGE OF THE ABOVE COURSES. WHEN THE SECOND PORTION OF THE PAVEMENT IS BUILT, AT LEAST TWELVE (12) INCHES OF THESE PROJECTING COURSES SHALL BE BROKEN DOWN AND THOROUGHLY KEYED IN WITH THE NEWLY PLACED CORRESPONDING COURSES IN THE SECOND PORTION OF THE PAVEMENT. PAYMENT FOR THIS OPERATION SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE PERTINENT PAVEMENT ITEMS.

ROCK SUBGRADE

The Contractor shall be paid for the thickness of I-22 material shown on the typical sections in rock excavation areas. Any pockets in the rock below the plan subgrade elevation shall drain either longitudinally or laterally and all irregularities in the rock below this elevation shall be filled with I-22 material at no additional cost to the State.

ESTIMATED QUANTITIES

Specific locations and usage of estimated quantities set upon this plan to be used "as directed by the Engineer" shall be made a matter of record by incorporation into the final change order governing completion of this project.

CENTERLINE REFERENCE MONUMENTS

MONUMENTS SHALL BE CONSTRUCTED OF CLASS "C" CONCRETE-CAST-IN-PLACE IN A CIRCULAR HOLE EIGHT (8) INCHES IN DIAMETER AND FORTY-FOUR (44) INCHES IN DEPTH. TOP OF CONCRETE SHALL BE FINISHED AT A DEPTH OF TWO (2) INCHES BELOW GROUND LEVEL AND THE UPPER SIX (6) INCH PORTION OF THE CONCRETE SHALL BE FORMED. ONE-HALF (1/2) INCH BRASS RODS SIX (6) INCHES LONG SHALL BE EMBEDDED IN THE WET CONCRETE AS DIRECTED BY THE ENGINEER TO MARK THE CENTERLINE AND STATION. FOR LOCATION, SEE SHEET NO. 81-A.

REPLACEMENT

THE CONTRACTOR SHALL REPLACE, AT HIS OWN EXPENSE, ANY ITEM NOT SPECIFICALLY LISTED FOR REMOVAL THAT IS DAMAGED OR DESTROYED BY HIS OPERATIONS.

NOTES

LAWRENCE COUNTY
LAW-522-0.75

I-9 SCHEDULE			
36 Lt.	36 Lt.	36 Lt.	36 Lt.
40400	92450	39475	91425
40450	93400	40425	91475
41400	93450	40475	92400
42400	97400	41425	92425
43400	97450	41475	92475
43450	98400	42425	93425
44400	98450	44475	93475
44450	99400	43425	96425
45400	99450	43475	96475
45450	100400	44425	97425
46400	100450	44475	97475
46450	101400	45425	98425
47400	101450	45475	98475
47450	102400	46425	99425
48400	102450	46475	99475
48450	103400	47425	100425
49400	103450	47475	100475
49450	104400	58475	101425
50400	115450	59425	101475
51400	116400	59475	102425
52400	116450	60425	102475
52450	117400	64425	103425
53400	117450	64475	103475
53450	118400	65425	106425
54400	118450	65475	106475
54450	119400	66425	107425
55400	119450	66475	108475
55450	120400	67425	109425
56400	120450	67475	109475
57400	121400	68425	110425
57450	130400	68475	116475
58400	131400	69425	117425
59400	131450	69475	117475
59450	132400	70425	118425
60400	82450	70475	118475
60450		71425	119425
61400		71475	119475
61450		72425	120425
62400		72475	120475
62450		73425	121425
63400		73475	121475
63450		74425	122425
64400		74475	122475
64450		75425	123425
65400		75475	124475
65450		76425	125425
66400		76475	126425
66450		77425	126475
67400		77475	127425
67450		78425	127475
68400		78475	128425
69400		79425	128475
69450		80425	129425
70400		80475	129475
70450		81425	130425
87450		81475	130475
88400		82475	131425
88450		87425	131475
89400		87475	132425
89450		88425	
90400		88475	
90450		89425	
91400		89475	
91450		90425	
92400		90475	
Total 226 Lin.Ft.		Total 1210 Lin.Ft.	
Grand Total 2136 L. of Eff.			

Toe walls detailed for this item shall extend a minimum of 12 inches below the nominal bottom plane of the riprap, unless otherwise shown. Payment for toe walls shall be included in the unit price bid for the riprap.

* Carried to Drive Box Sheet No. 7

SUMMARY OF QUANTITIES

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

LAWRENCE COUNTY
LAW-522-O.75

DRIVES														
See Sheet #	station	AP/C	T-35 Asphaltic Conc Surface Course	T-30 Bituminous Prime Coat Course	B-15 Aggregate Base Course			I-1						E-12 Pipe Removed 15'± Under Lin. Ft.
			Sq. Yd.			Sq. Yd.			F-1		C-1			
			2"	Sq. Yd.	5"	6"	8"	12"	21"	24"	42"	30"		
11	40+58 Fld.	RT.												
11	41+57 Res.	LT.	79.75	79.75	85.20	70.03								
12	50+75 Fld.	LT.				50.65			34					
12	56+00 Fld.	LT.				135.20				42				
12	57+41 Conn.	RT.											30	
13	68+50 Fld.	LT.				151.16								
14	78+71.50 Conn.	LT.									58		24	
15	82+13 Fld.	RT.				101.55								
15	84+50 Fld.	RT.				70.03				38				
15	84+90 Fld.	LT.				99.95								
15	86+60 Fld.	LT.				70.03								
16	94+00 Fld.	LT.				74.69				60				
16	95+50 Fld.	RT.				70.03								
17	108+00 Fld.	RT.				81.33			38					
18	110+78 Fld.	LT.				54.31								
19	134+00 Fld.	RT.				50.67								
19	135+30.3 Conn.	RT.											16	
19	135+36 Fld.	LT.				85.99			34					
20	130+50 Fld.	LT.				115.25						54		
20	132+58 Res.	LT.	79.75	79.75	85.20		78.47					40	20	
15	85+80 Res.	LT.	79.75	79.75	85.20		45.22							
20	131+00	LT.											24	
11	42+50 (walk)												6	
6	Drainage Box							195						
	Total		*239.25	*239.25	*255.60	*1388.27	*123.69	229	72	140	58	74		*120

* Quantities Carried to Pavement Calculation Box, See Sheet No. 8
Δ Quantities Carried to Structure Calculation Box, See Sheet No. 6

EROSION CONTROL											
See Sheet No.	station to station	side	L-9 Seeding & Protecting	L-9 Commercial Fertilizer	L-9 Agricultural Liming Material	L-10 Sodding 6' Wide	I-10 Dumped Rock Channel/ Protection 2' Thick 6' Wide	I-14 Paved/Gutter Std. Type 1	I-14 Paved Gutter Std. Type 3		
			Sq. Yd.	Tons	Tons	Sq. Yd.	Cu. Yd.	Lin. Ft.	Lin. Ft.		
10/20	39+00 ~ 134+00	4/20	72,755	6.72	33.58						
11	40+00 ~ 40+52	Lt.				34.67					
11	40+62 ~ 41+00	Lt.				25.33					
11	43+50 ~ 45+55	Lt.				160.00					
12	50+55 ~ 51+00	Lt.				10.00					
12/13	59+50 ~ 60+50	Lt.				64.00					
13	63+00 ~ 63+70	Lt.				40.67					
14	74+05 ~ 78+21	Lt.				291.67					
14/15	78+79 ~ 80+50	Lt.				120.67					
15	82+70 ~ 83+00	Lt.				20.67					
15	87+50 ~ 89+50	Lt.						17100			
15/16	89+50 ~ 93+45	Lt.				268.00					
16	93+45 ~ 93+70	Lt.					11.11				
16	94+30 ~ 98+00	Lt.				242.00					
17	104+50 ~ 107+00	Lt.						28500			
17	107+00 ~ 107+50	Lt.							65.00		
17	104+50 ~ 107+50	Rt.				213.00					
17	108+18 ~ 108+43	Rt.					11.11				
17	108+43 ~ 109+50	Rt.				70.00					
18	112+75 ~ 114+13	Lt.				50.00					
18	113+00 ~ 114+15	Rt.						12000			
19	120+50 ~ 130+33	Lt.				50.67					
20	130+67 ~ 132+18	Lt.				104.00					
20	132+58 ~ 133+00	Lt.				30.00					

* Carried to Structure Box See Sheet No. 6

See Sheet No.	Station to Station	Side	EXCAVATION & EMBANKMENT				
			E-1 Roadway Excavation	Roadway Embkmt	Roadway Embkmt + 15%	E-1 Compacted Subgrade	E-4 Borrow
			Cu. Yds.	Cu. Yds.	Cu. Yds.	Sq. Yds.	Cu. Yds.
10/20	39+00 to 134+00		76,450	72,009	82,810	+21,993	5,113
	Deduct for rock Areas					-667	
	Add for Approach Slabs					+80	
Total			76,450	72,009	82,810	21,406	5,113

T-10 CALCULATIONS				
Station to Station	Length	Width	Depth	Sq. Yds.
40+00 ~ 42+50	250'	20'	8"	555.5
55+50 ~ 57+58	265'	20'	8"	588.9
125+30 ~ 132+50	800'	20'	8"	1777.8
Total				2922.2
2922.2 x $\frac{8}{36}$ = 649.4				Cu. Yds.

BORROW CALCULATION

Roadway Embankment + 15% = 82,810 Cu. Yds.
Roadway Excavation, Item E-1 = 76,450 Cu. Yds.
Gross Borrow, Item E-4 = 6,360 Cu. Yds.
Available to Reduce Borrow
Channel Excavation, Item E-3 = 1247 Cu. Yds.
Net Borrow, Item E-4 = 5,113 Cu. Yds.

See Sheet No.	Station to Station	Side	GUARD RAIL			
			I-15 Guard Rail Steel Beam Type Deep			
			Lin. Ft.			
15/16	89+90 ~ 94+65	Rt.	475.00			
17	105+65 ~ 109+32	Lt.	375.00			
14	73+80 ~ 74+55	Lt.	75.00			
14	73+60 ~ 74+10	Rt.	50.00			
18	113+55 ~ 115+00	Lt.	112.50			
18	113+55 ~ 115+00	Rt.	112.50			
Sub Total			1200.00			
Deduct for Bridge			-159.08			
Total			1040.92			

WATER	
Item E-11	401-MGal

REMOVAL OF TREES & STUMPS	
ITEM E-9	LUMP

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

LAWRENCE COUNTY
LAW-522-0.75

SUMMARY OF QUANTITIES

GENERAL SUMMARY

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO		

LAWRENCE COUNTY
LAW-522-0.75



CODE TYPE 6201				GENERAL SUMMARY										
ITEM NO.	QUANTITY	UNIT		D	E	S	C	R	I	P	T	I	O	N
				ROADWAY										
E-1	21,406	Sq Yd		Compacted Subgrade										
E-1	76,450	Cu Yd		Roadway Excavation, Method B, as per plan										
E-4	5,113	Cu Yd		Borrow										
E-9	Lump	Lump		Removal of Trees & Stumps										
E-11	401	M-Gal		Water										
E-12	24	Lin Ft		Pipe Removed, Over 15"										
E-12	163	Lin Ft		Pipe Removed, 15" & Under										
E-12	34	Lin Ft		30" Pipe Removed for Storage										
I-8	66	Each		Centerline Reference Monuments, as per plan										
I-15	1040.92	Lin Ft		Guard Rail, Steel Beam Std Type (Deep)										
L-9	72,755	Sq Yd		Seeding & Protecting										
L-9	6.72	Tons		Commercial Fertilizer (12-12-12)										
L-9	33.58	Tons		Agricultural Liming Material, as per plan										
L-10	1838	Sq Yd		Sodding										
M-10	22	Tons		Calcium Chloride Furnished & Applied for Maintaining Traffic										
T-10	1100	Cu Yd		Traffic Compacted Surface Course for Maintaining Traffic										
E-10	1	Each		Removal of 1 1/2 Story Frame Barn, Parcel No.1										
				DRAINAGE										
E-3	2076	Cu Yd		Channel Excavation										
I-1	76	Lin Ft		Class B-1, 10'-8"x6'-1/1", Sec.M-6A(9), 10'-8 Gage										
I-1	48	Lin Ft		Class A-1, 15" Pipe										
I-1	210	Lin Ft		Class A-1, 30" Pipe										
I-1	220	Lin Ft		Class A-1, 42" Pipe										
I-1	229	Lin Ft		Class F-1, 12" Pipe										
I-1	72	Lin Ft		Class F-1, 21" Pipe										
I-1	140	Lin Ft		Class F-1, 24" Pipe										
I-1	74	Lin Ft		Class C-1, 30" Pipe										
I-1	2714	Lin Ft		Class I-3, 6" Pipe										
I-1	70	Lin Ft		Class I-1, 8" Pipe										
I-1	58	Lin Ft		Class C-1, 42" Pipe										
I-2	25.7	Cu Yd		Masonry Class "C"										
I-2	12.5	Cu Yd		Masonry Class "E"										
I-5	10	Each		6" Pipe Specials, Class I-3										
I-8	2	Each		Std. No.22-B Catch Basins										
I-9	2136	Lin Ft		Stone Underdrains, #2										
I-10	435	Cu Yd		Dumped Rock Channel Protection										
I-10	227	Sq Yd		Fill, as per plan										
I-14	576	Lin Ft		Paved Gutter, Std. Type 1										
I-14	65	Lin Ft		Paved Gutter, Std. Type 3										
S-24	Lump	Lump		Removal of Existing Structure										
				PAVEMENT										
T-35	785	Cu Yd		Asphaltic Concrete Surface Course Type "C" (85-100)										
B-35	1076	Cu Yd		Asphaltic Concrete Leveling Course (85-100)										
T-30	9316	Gal		Bituminous Prime Coat See M-57, RT-2 or RT-3										
B-19	4231	Cu Yd		Aggregate Base Course										
I-22	4058	Cu Yd		Subbase										
I-7	80	Sq Yd		Reinforced Conc. Approach Slabs(T=10")										

For Quantities For Bridge No. LAW-522-0217 See Sheet No. 76

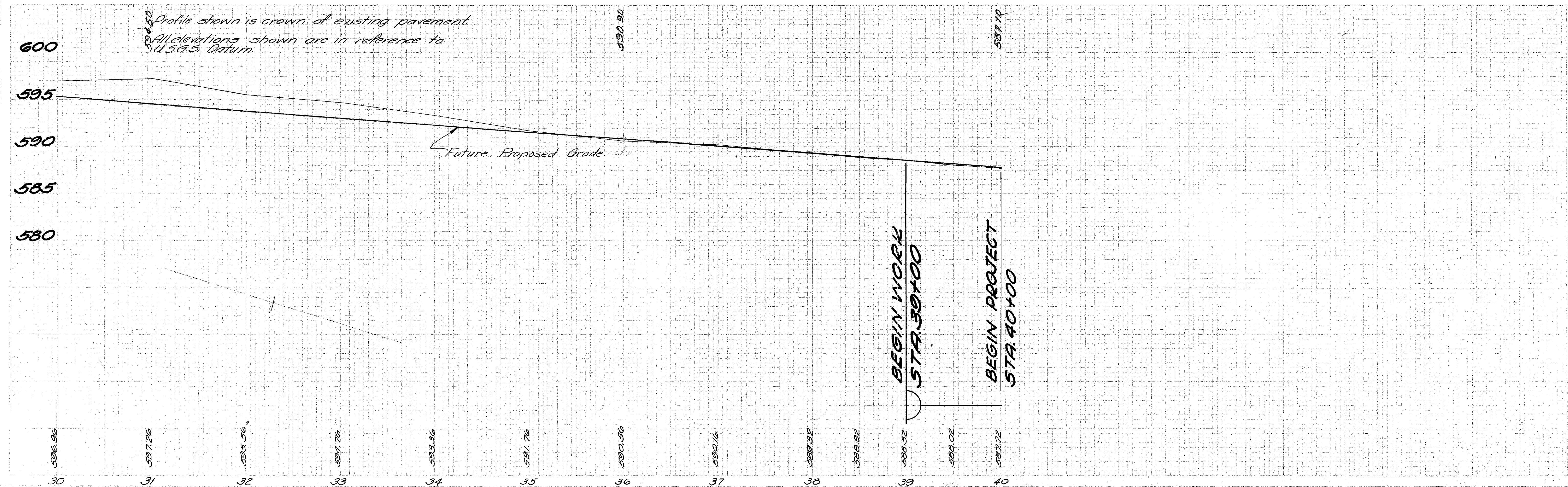
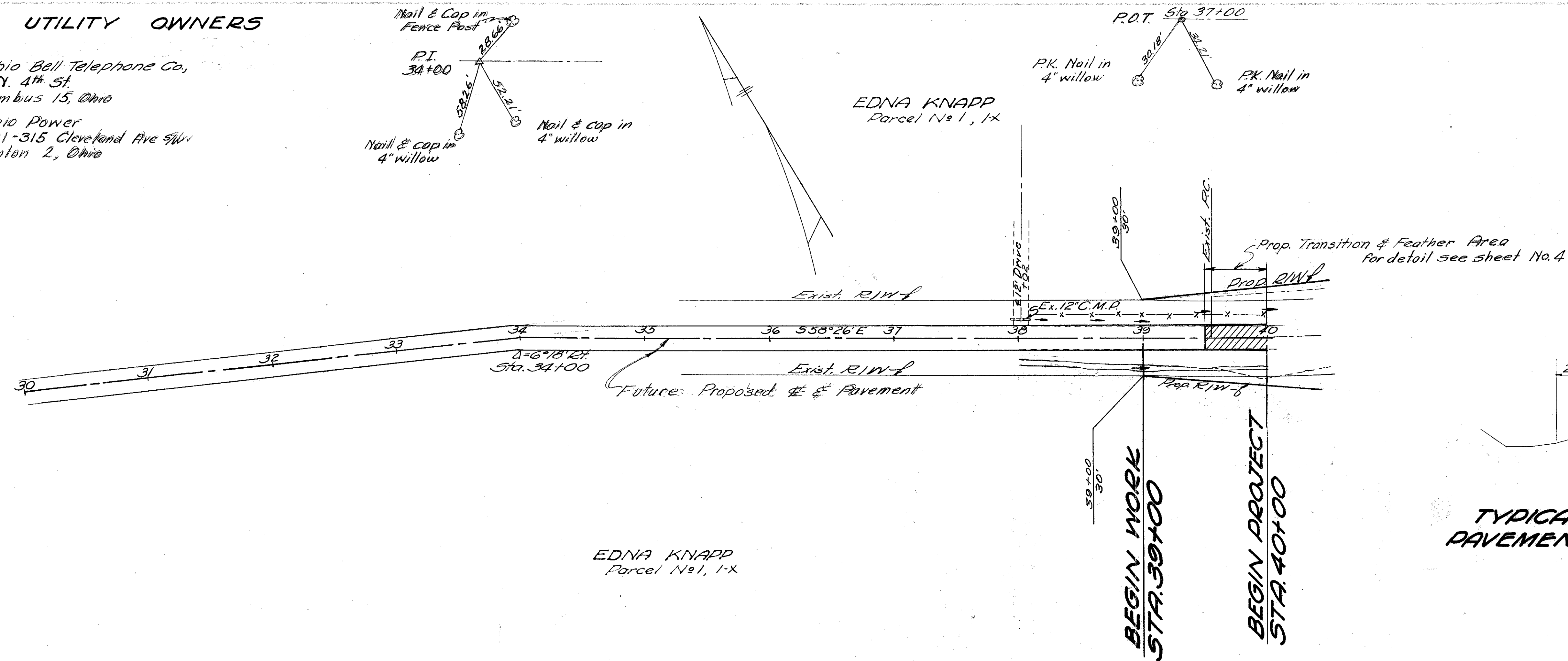
UTILITY OWNERS

Ohio Bell Telephone Co.,
111 N. 4th St.
Columbus 15, Ohio

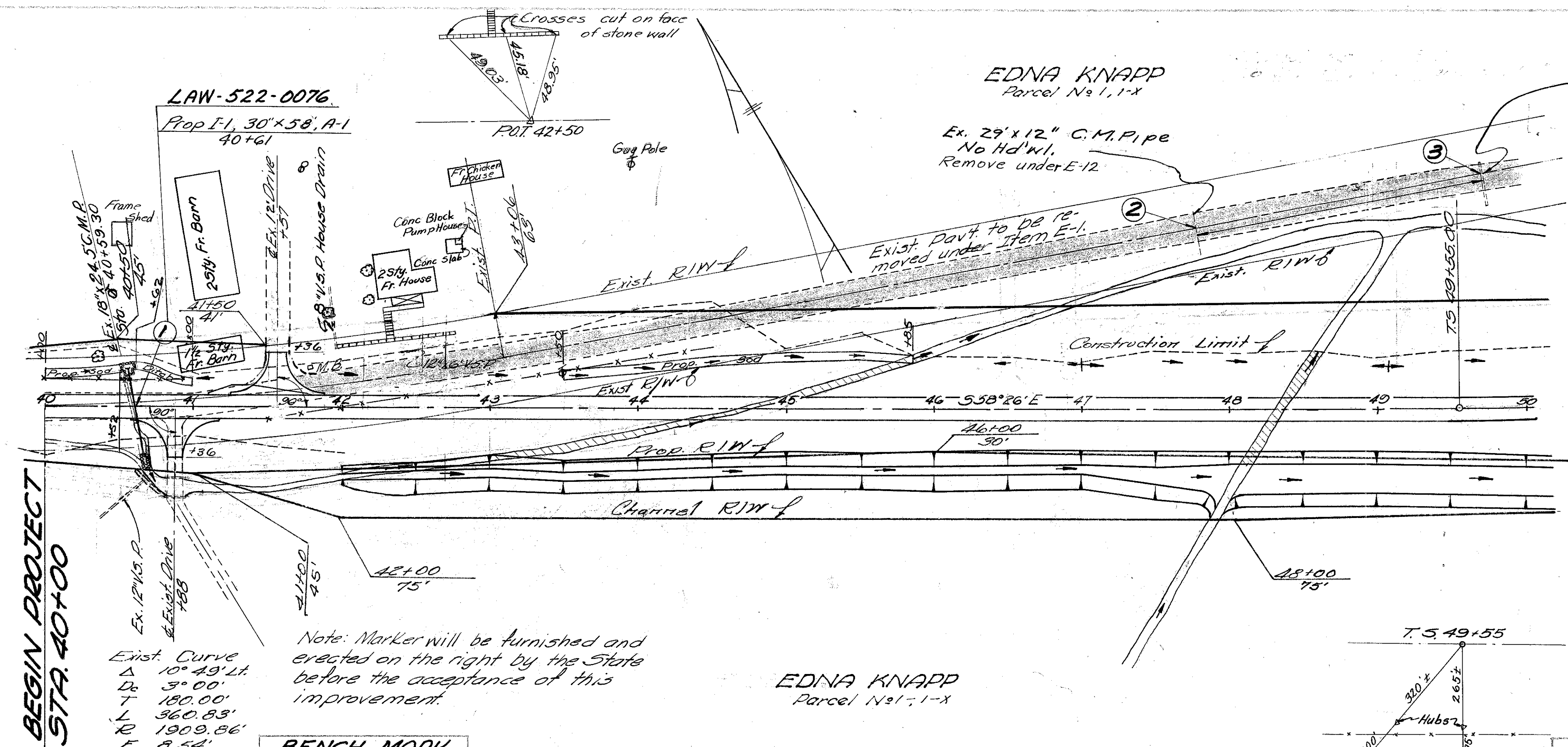
Ohio Power
301-315 Cleveland Ave SW
Canton 2, Ohio

FED. RD. DIST.	STATE	PROJECT	SHEET NO.	10
2	OHIO	5-766(3)		38

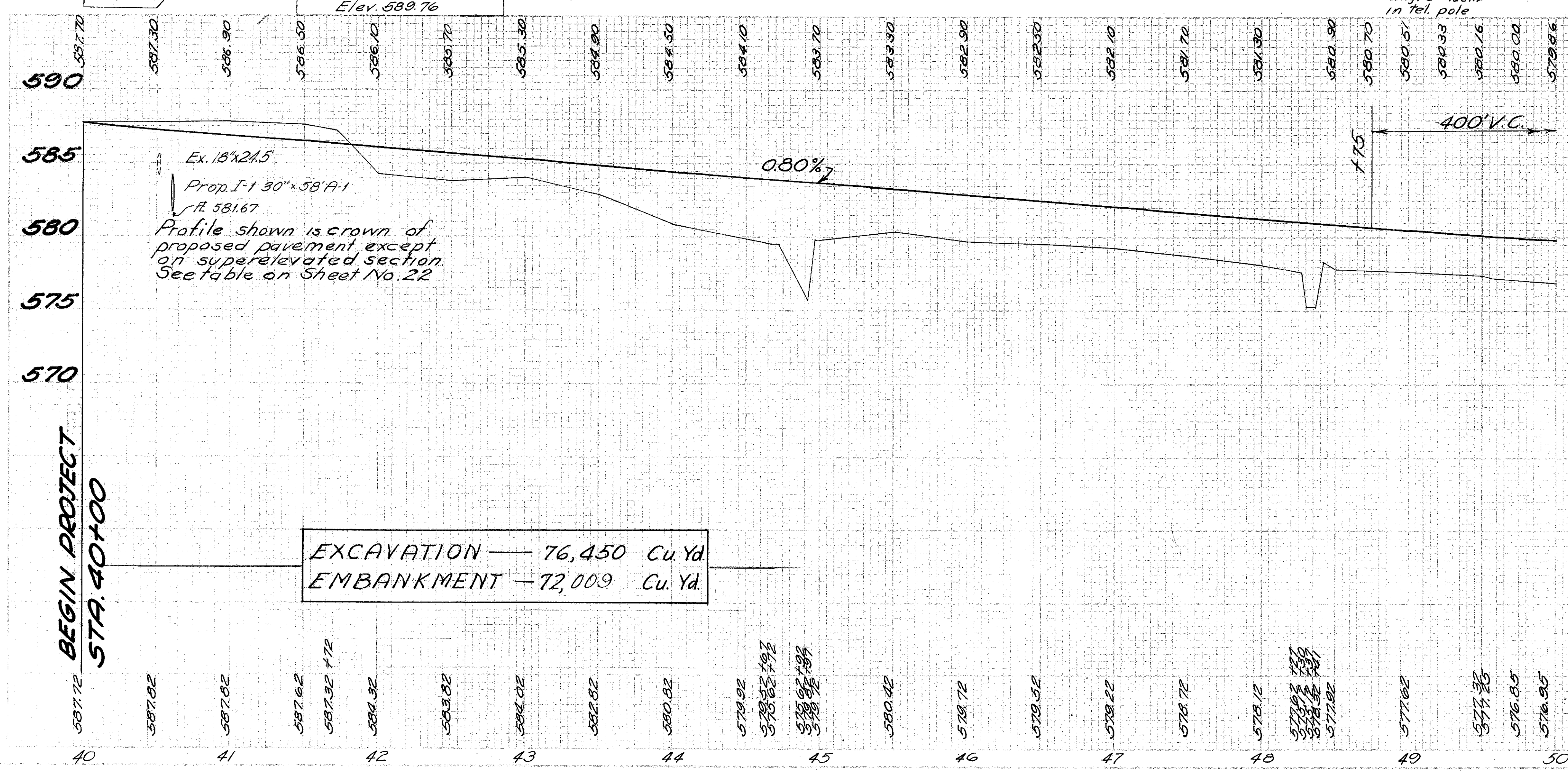
LAWRENCE COUNTY
LAW-522-0.75



STA 30+00 TO STA 40+00



FOR DETAILS OF STRUCTURE
NO. 1 SEE SHEET NO. 66
FOR ESTIMATED QUANTITIES
SEE SHEET NO. 6-7-8

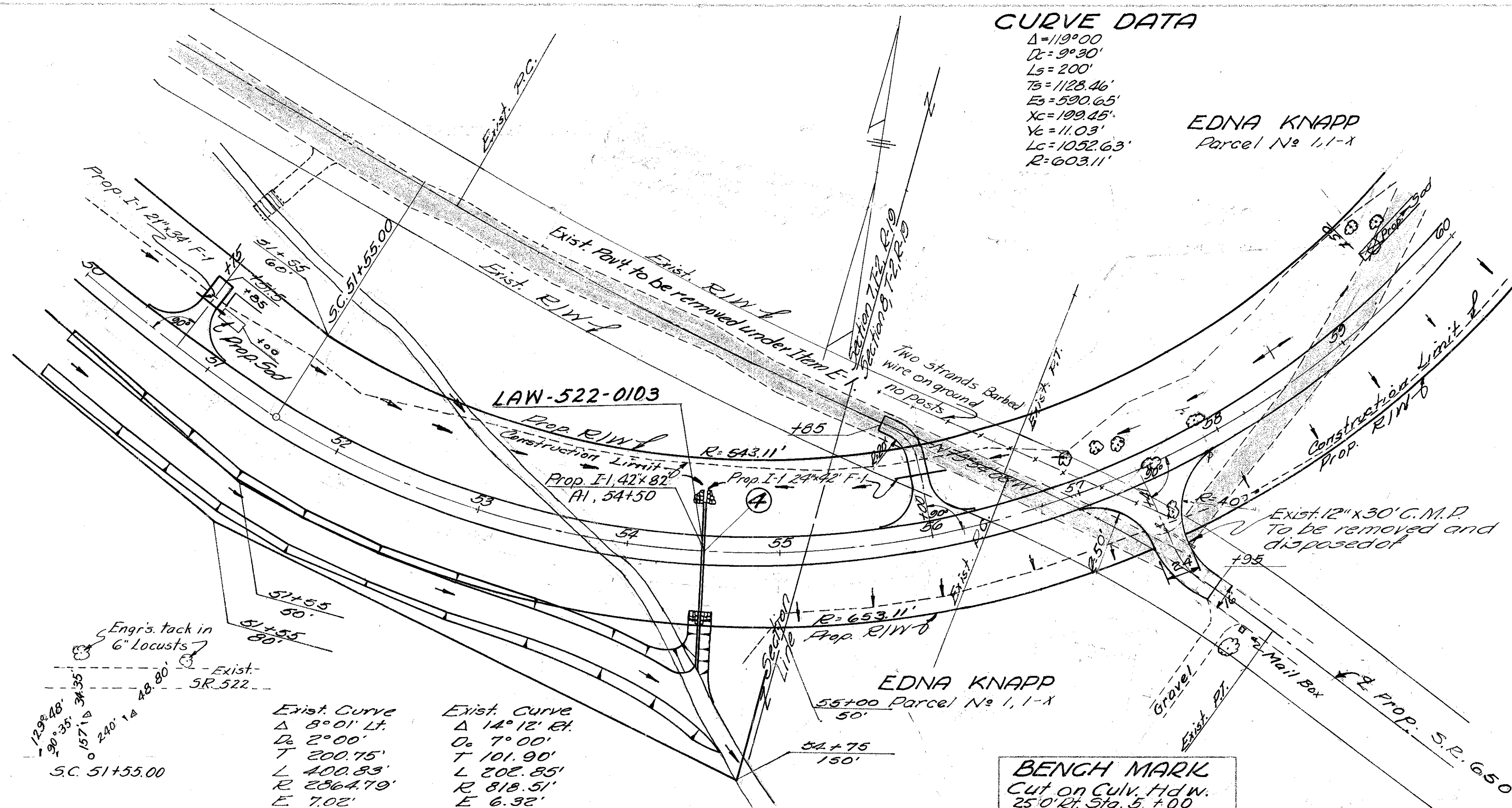
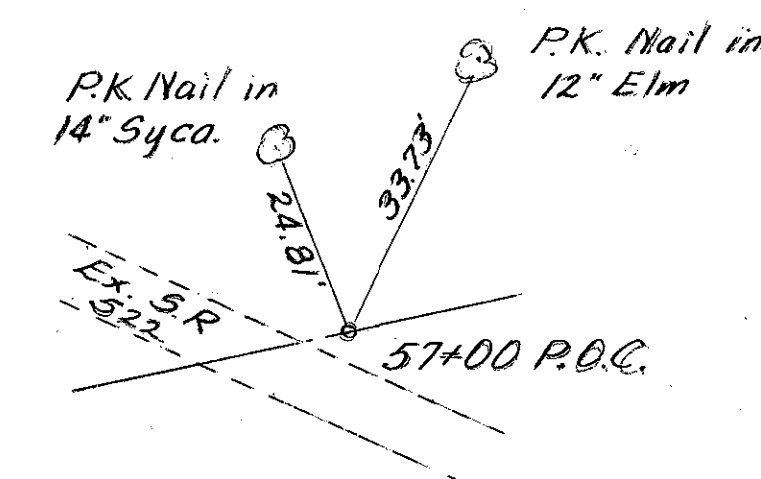


LAWRENCE COUNTY
LAW-522-0.75

CURVE DATA

$\Delta = 119^{\circ}00'$
 $D_c = 9^{\circ}30'$
 $L_s = 200'$
 $TB = 1123.46'$
 $E_3 = 520.65'$
 $X_c = 199.45'$
 $Y_c = 11.03'$
 $L_c = 1052.63'$
 $R = 603.11'$

EDNA KNAPP
Parcel No. 1, 1-X

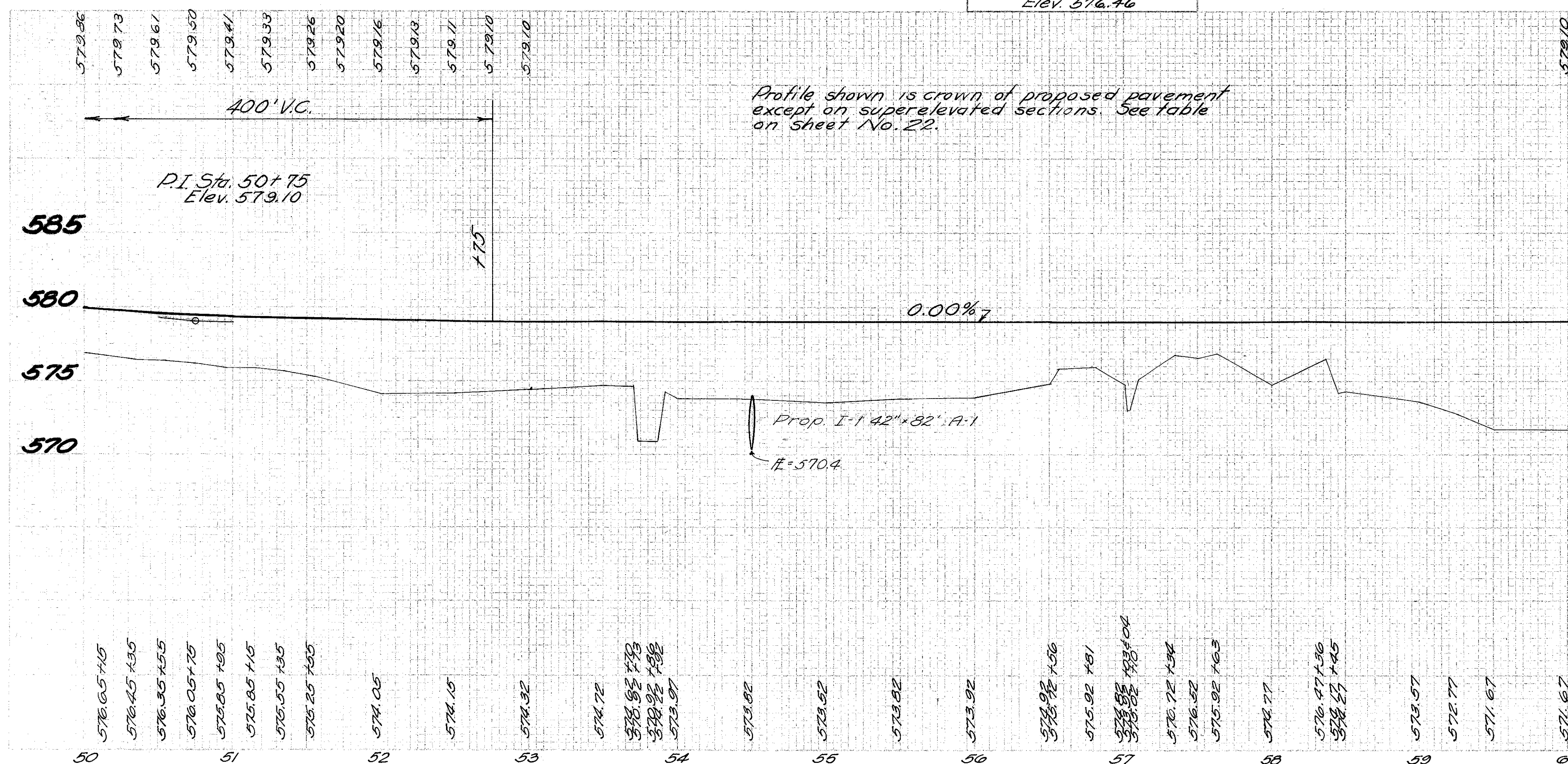


EDNA KNAPP
Parcel No. 1, 1-X

FOR DETAILS OF STRUCTURE
NO 4 SEE SHEET NO 67

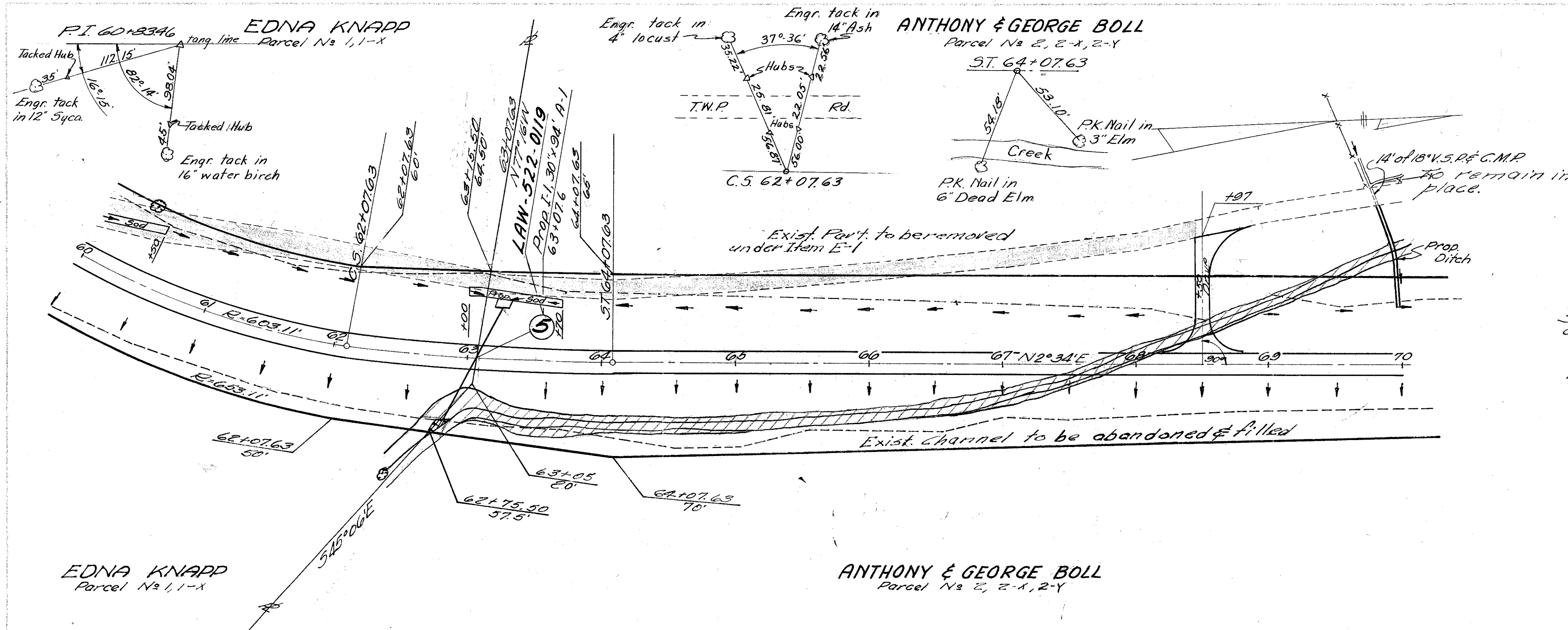
FOR ESTIMATED QUANTITIES
SEE SHEET NO. 6-7-8

BENCH MARK
Cut on Culv. Hd W.
25'0" Stn. 5+00
Elev. 576.46



Profile shown is crown of proposed pavement except on super-elevated sections. See table on Sheet No. 22.

**LAWRENCE COUNTY
LAW-522-0.75**



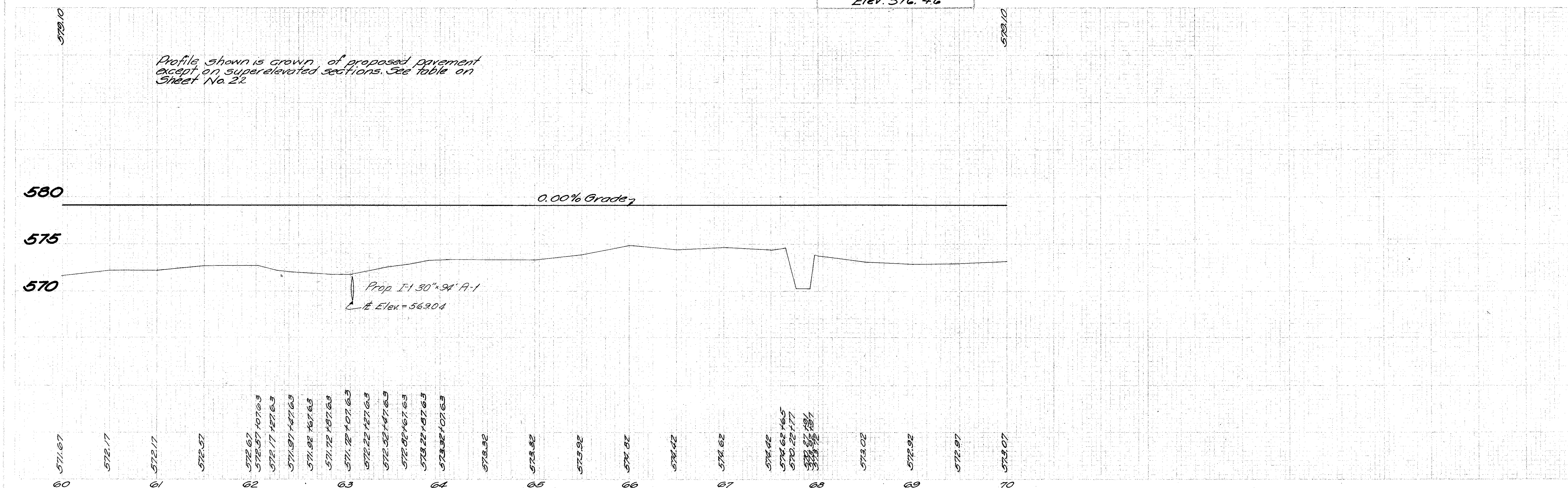
Note: Exist. Fov. removal between Sta. 60+00 to Sta. 68+50 = 271 Cu. Yd. Carried to Cross Section Sheet No. 31

Note: Channel Fill between Sta. 68+50 to Sta. 74+00 = 58.5 Cu. Yds. Carried to Cross Section Sheet No. 35

Note: Existing Channel is to be filled prior to placing proposed roadway embankment.

**FOR DETAILS OF STRUCTURE
NO. 5 SEE SHEET NO. 68**

**FOR ESTIMATED QUANTITIES
SEE SHEET NO. 6-7-8**



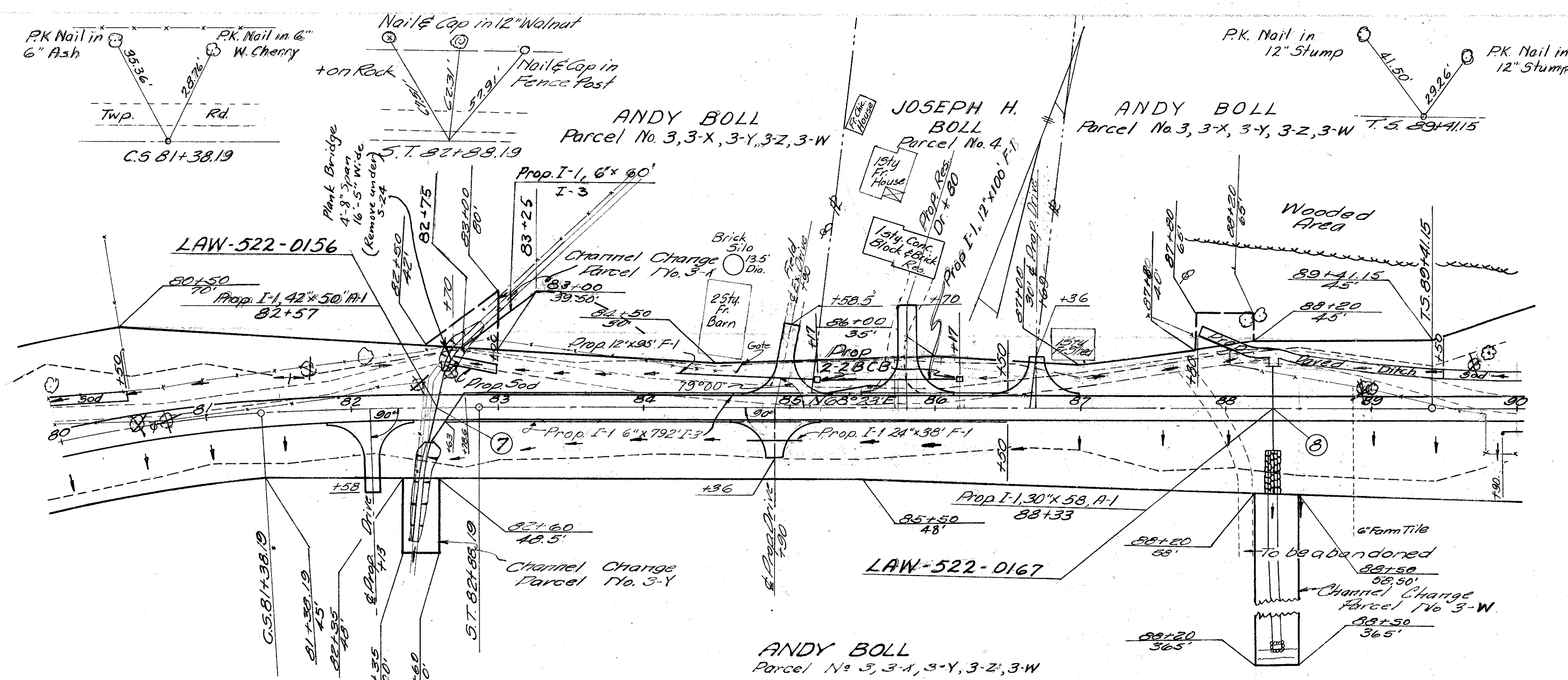
STA. 60+00 TO STA. 70+00



FOR ESTIMATED QUANTITIES
SEE SHEET NO. 6-7-8

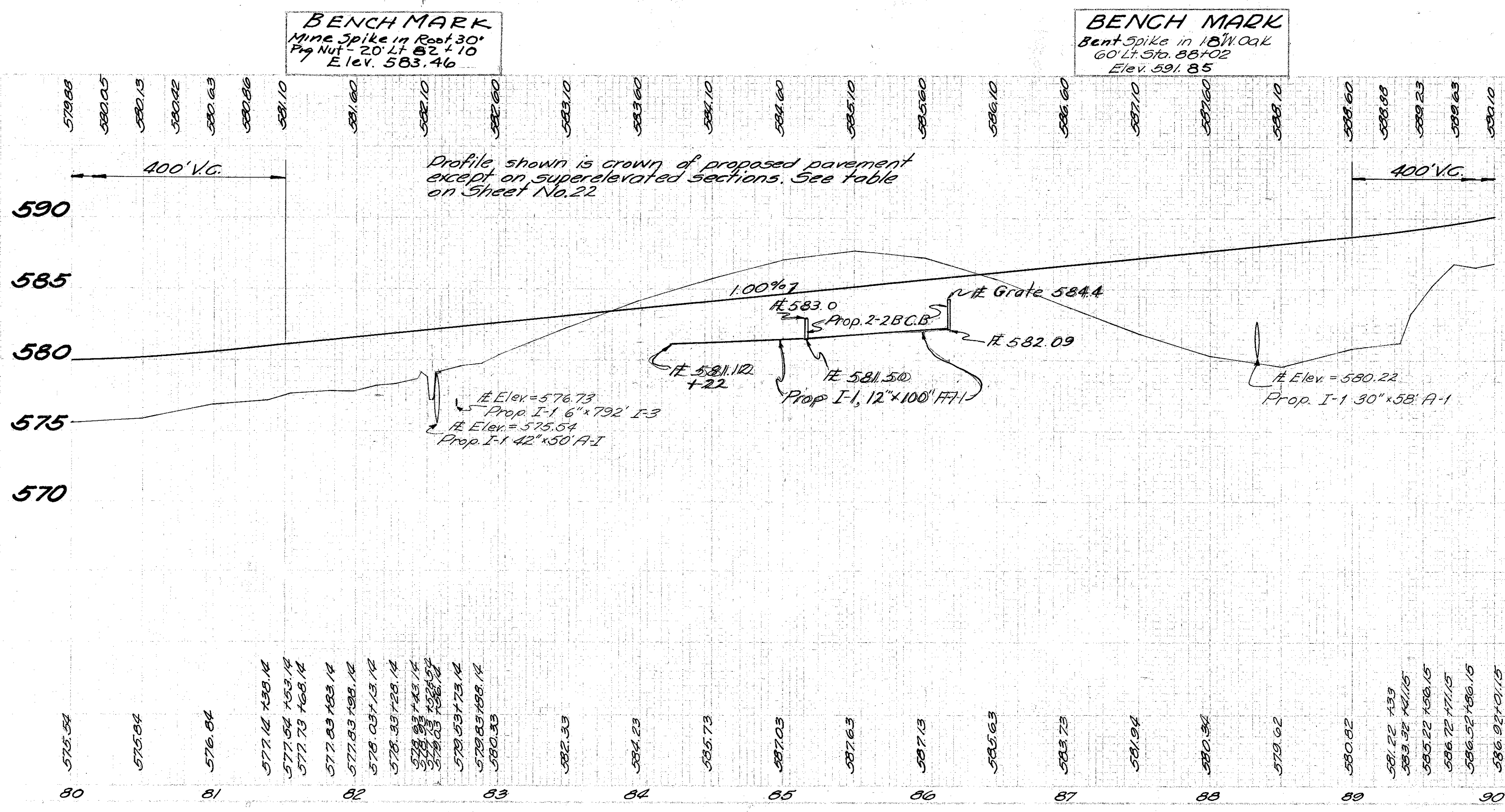
FOR DETAIL OF CONNECTION
SEE SHEET NO. 63

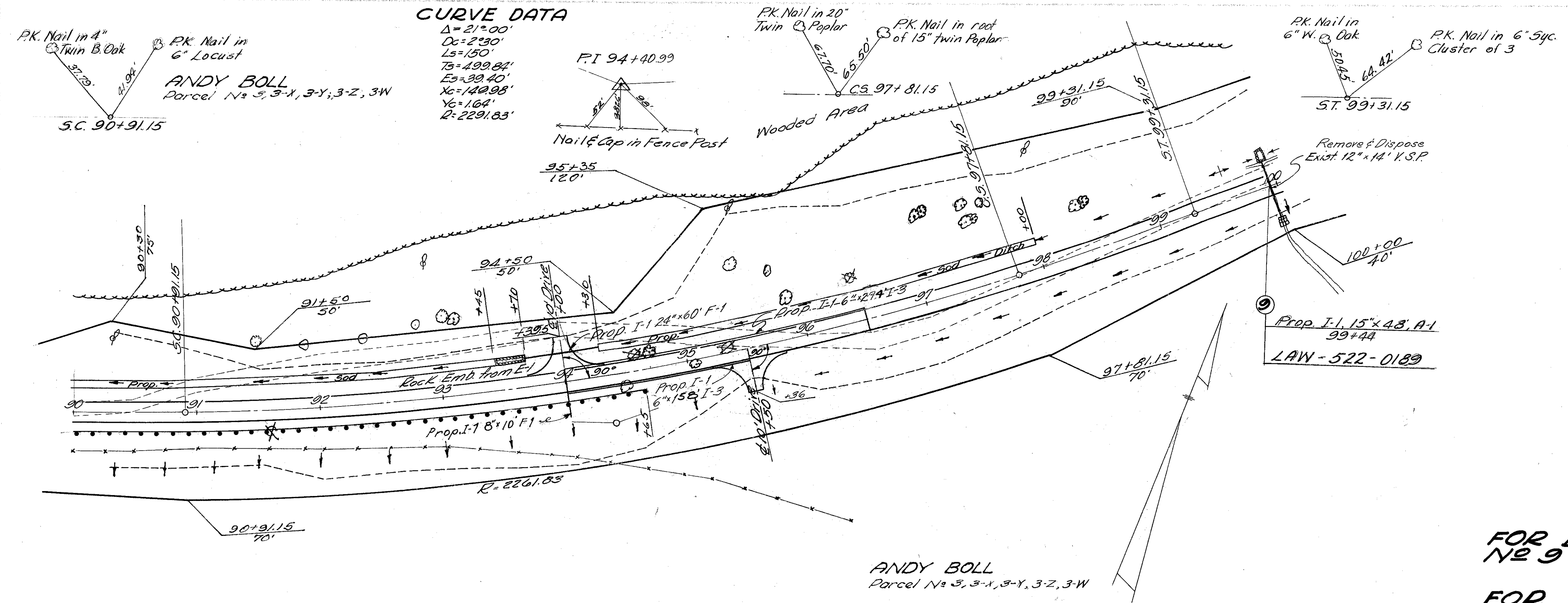




FOR DETAILS OF STRUCTURE
NO 7 SEE SHEET NO 70
FOR DETAILS OF STRUCTURE
NO 8 SEE SHEET NO 71

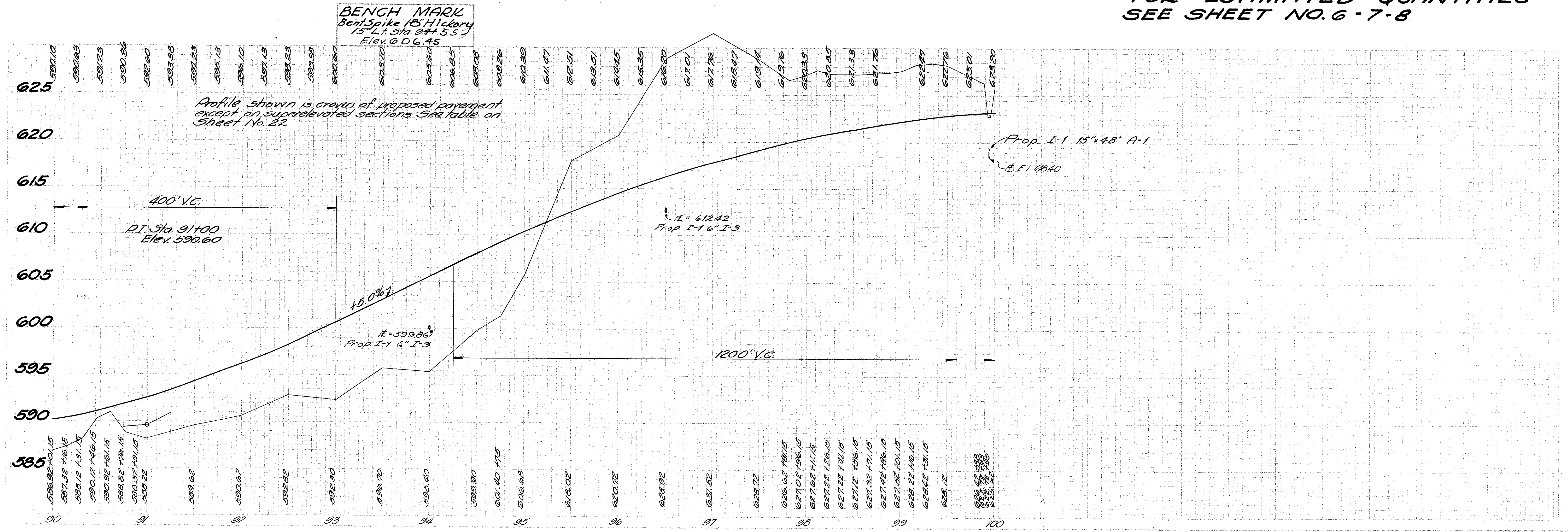
FOR ESTIMATED QUANTITIES
SEE SHEET NO. 6-7-8



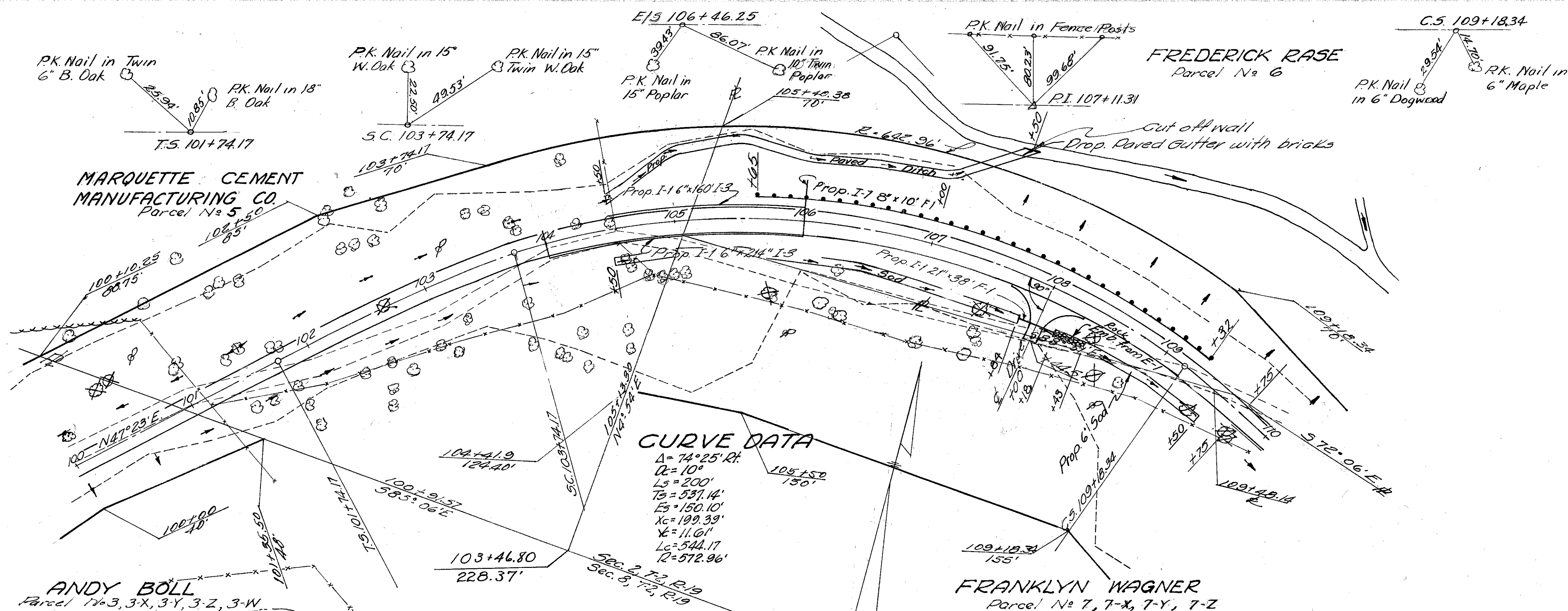


FOR DETAILS OF STRUCTURE
 NO 9 SEE SHEET NO 12

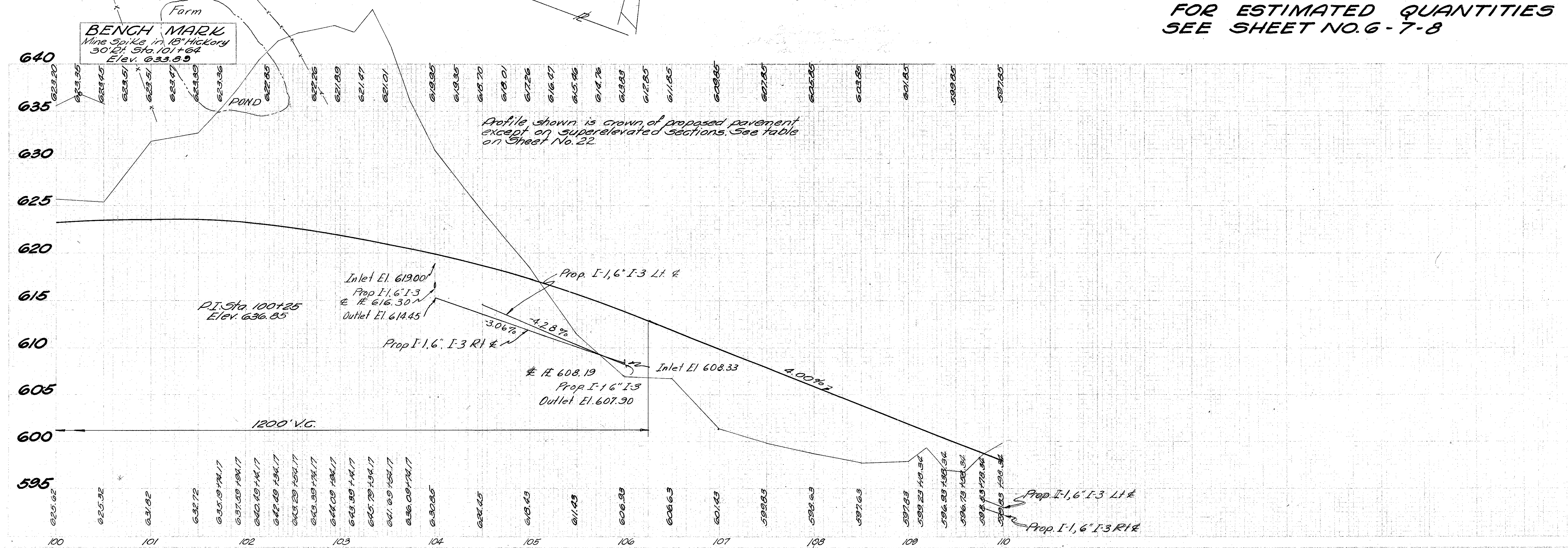
FOR ESTIMATED QUANTITIES
 SEE SHEET NO. 6-7-8



LAWRENCE COUNTY
LAW-522-0.75



FOR ESTIMATED QUANTITIES
SEE SHEET NO. 6-7-8



STA.100+00 TO STA.110+00

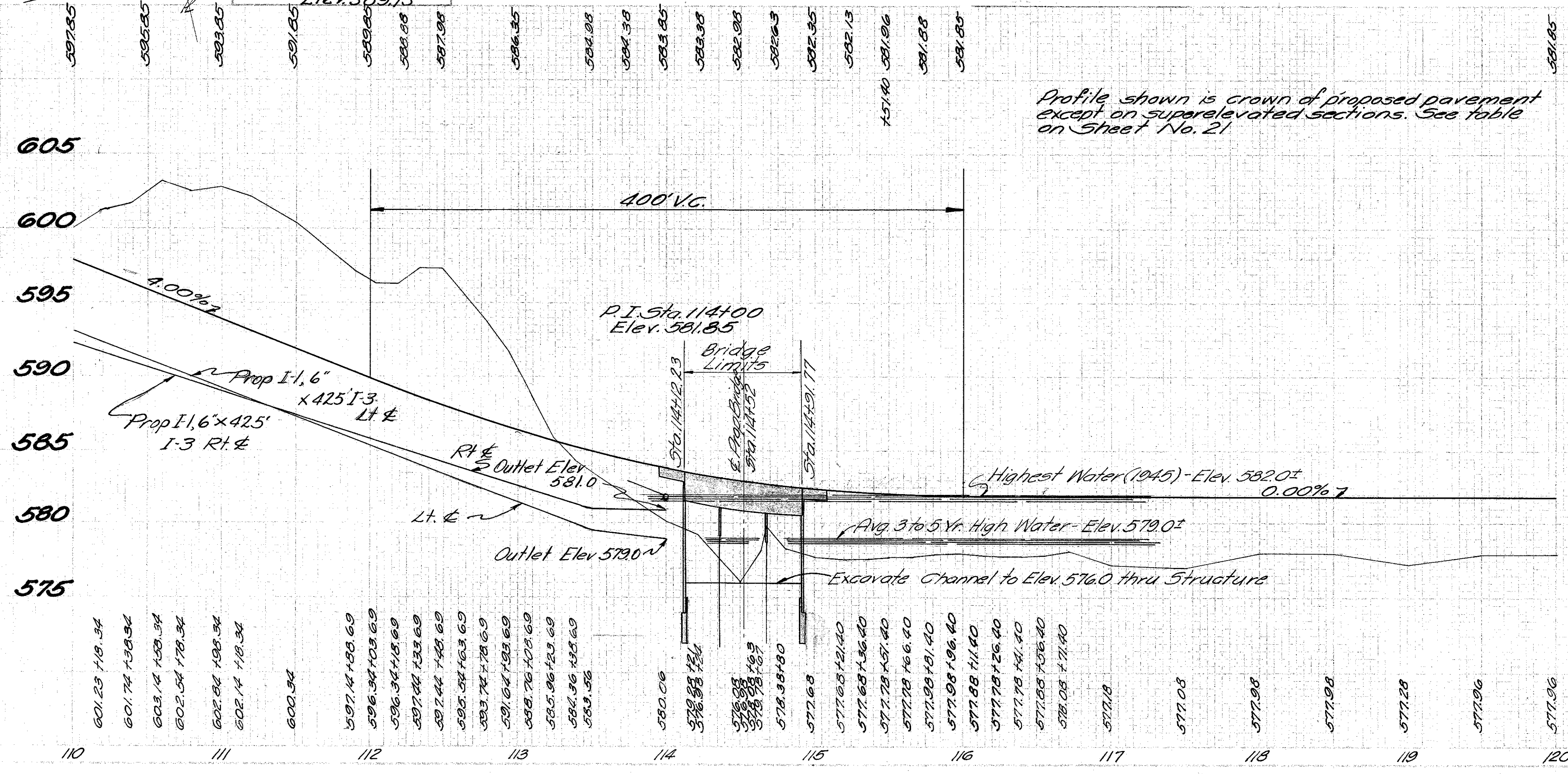
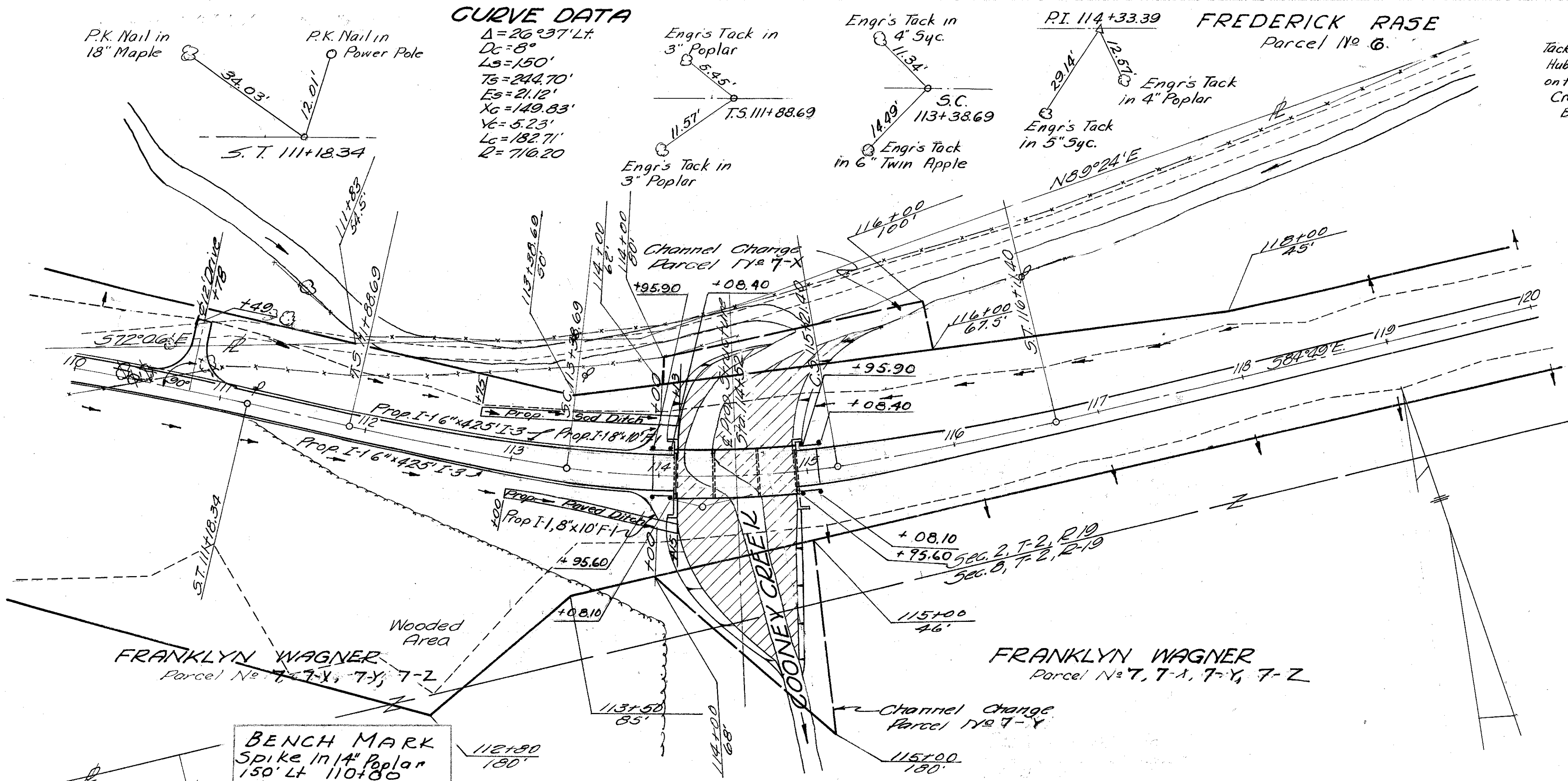
CURVE DATA
 $\Delta = 26^{\circ}37'14''$
 $D_c = 8^{\circ}$
 $L_c = 150'$
 $T_c = 244.70'$
 $E_s = 21.12'$
 $X_c = 149.83'$
 $Y_c = 5.23'$
 $L_c = 152.71'$
 $R = 716.20'$

FREDERICK RASE
Parcel No. 6.
 P.I. 114+33.39
 Engr's Tack in 4" Syc.
 Engr's Tack in 4" Poplar
 Engr's Tack in 5" Syc.

EXISTING BRIDGE DATA
NONE

PROPOSED STRUCTURE
 TYPE: Cont. reinf. conc. slab with reinf. conc. abutments and capped pile piers.
 SPANS: 21'-30'-21' c/c to c/c of bearings
 ROADWAY: 32'-0" face to face of guard rails
 LOADING: CF-130(57)
 SKEW: None
 WEARING SURFACE: Monolithic (2")
 APPR. SLABS: AS-1-54 (15' long)
 ALIGNMENT: 8°00' L.C.
 SUPERELEVATION: 0.083 ft. per ft.

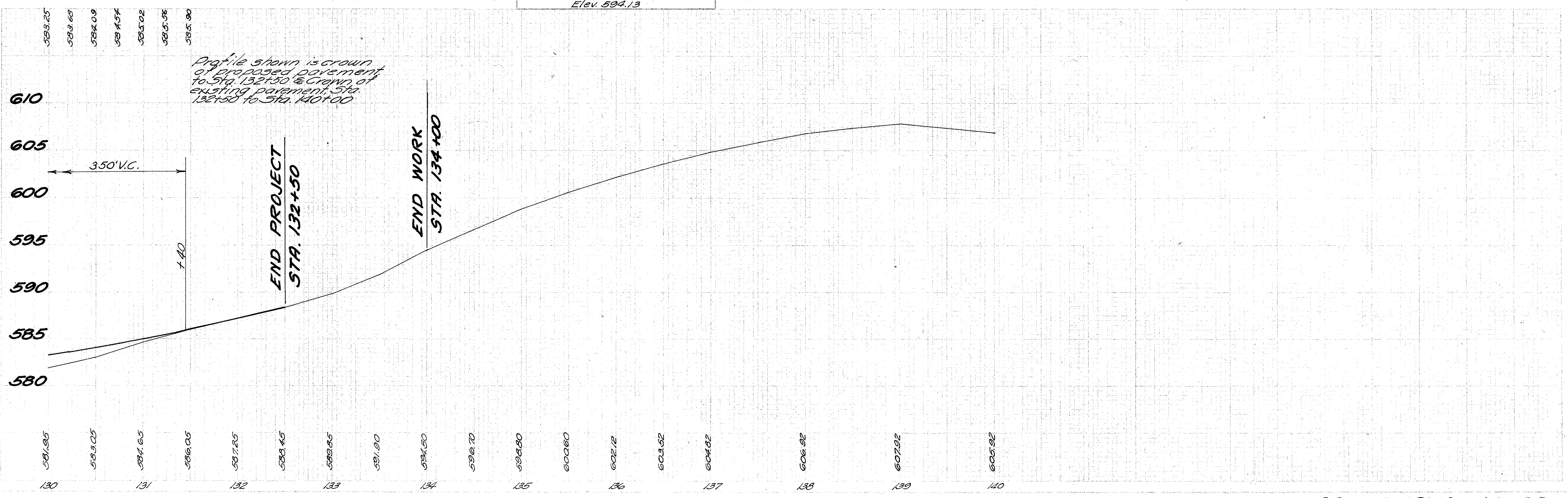
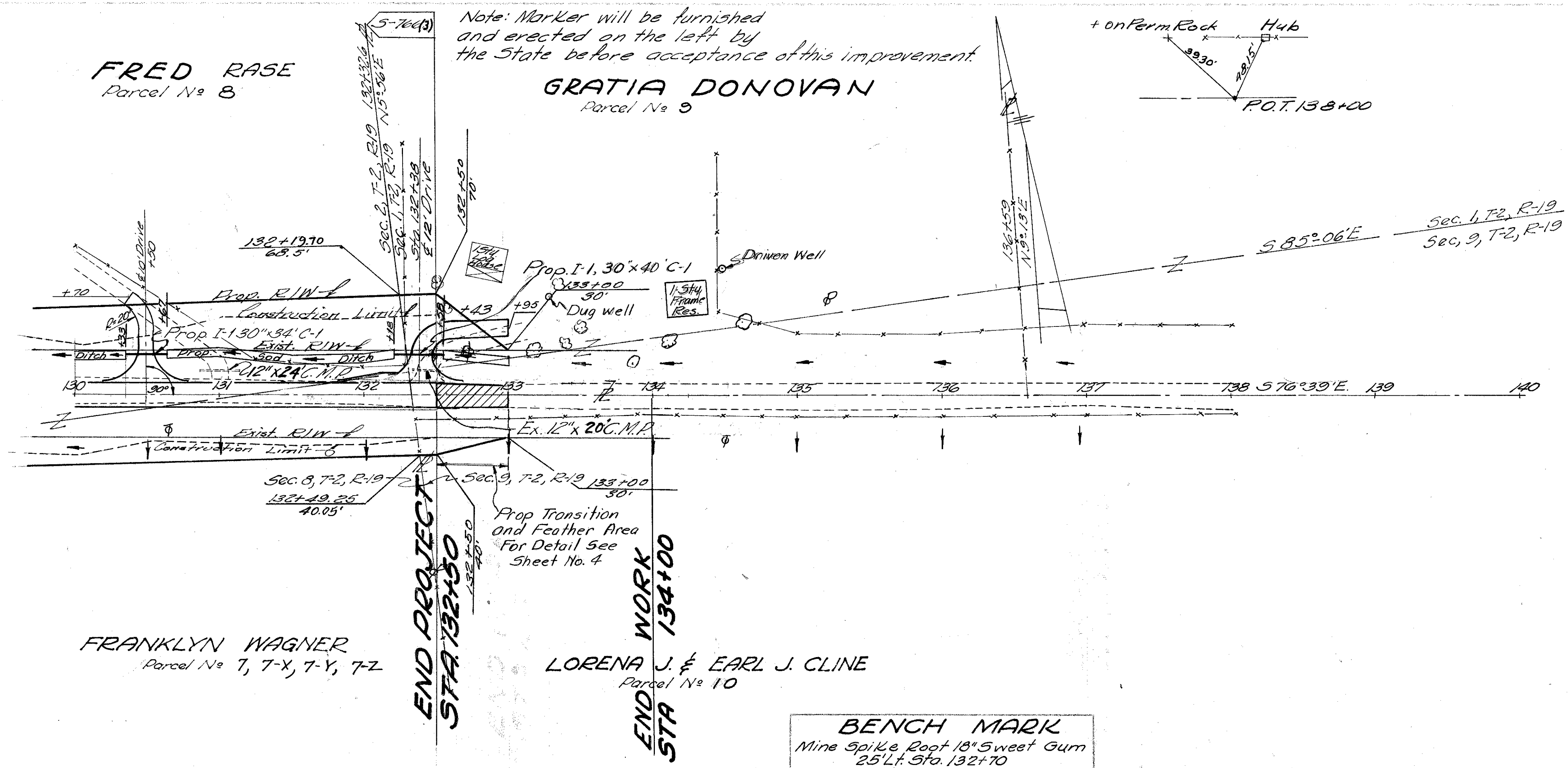
FOR ESTIMATED QUANTITIES
SEE SHEET NO. 6-7-8



STA. 110+00 TO STA. 120+00



LAWRENCE COUNTY
LAW-522-O.75



FOR ESTIMATED QUANTITIES
SEE SHEET NO. 6-7-8

PAVEMENT ELEVATIONS

LAWRENCE COUNTY
LAW-522-0.75

$\Delta = 26^{\circ} 37' 41''$ $D_c = 8^{\circ} 00'$ T.S. 111+88.69 S.C. 119+38.00					
$L_s = 150'$ C.S. 115+21.40 S.T. 116+71.40					
Elevation	Width	Station	Center Elevation	Width	Elevation
Lt. Edge					Rt. Edge
592.12	10.00	111+39.19	592.28	10.00	592.12
591.69		+50	591.85		591.73
590.69		+75	590.85		590.80
590.14	10.00	+88.69	590.30		590.30
588.93	10.80	112+18.69			583.41
588.34	11.20	+39.69			588.99
587.76	11.60	+48.69			588.58
586.65	12.40	+78.69			587.84
585.61	13.20	113+08.69			587.19
585.11	13.60	+29.69			586.89
584.67	14.00	+38.69			586.60
584.36		+50.00			586.36
583.76		+75			585.76
583.23		114+00			585.23
582.97		+12.50			584.96
582.84		+25			584.84
582.54		+37			584.54
582.34		+50			584.34
582.31		+52			584.31
582.09		+67			584.09
582.01		+75			584.01
581.84		+91.50			583.82
581.73		115+00			583.73
581.54	14.00	+21.40			583.54
581.52	13.90	+25			583.46
581.49	13.20	+51.40			583.07
581.51	12.40	+81.40			582.70
581.59	11.60	116+11.40			582.41
581.66	10.80	+41.40			582.14
581.69	10.00	+71.40	581.85		581.85
		+75.00			581.84
		117+00			581.75
581.69	10.00	+20.90	581.85	10.00	581.69

$\Delta = 8^{\circ} 0' 41''$ $D_c = 0^{\circ} 50'$ D.C. 120+94.81 D.T. 129+69.81					
Elevation	Width	Station	Center Elevation	Width	Elevation
Lt. Edge					Rt. Edge
581.69	10'	119+75	581.85	10'	581.69
581.69		+94.81			
581.70		120+00			
581.75		+25			
581.78		+50			
581.96		+75			
581.90		+94.81			
581.91		121+00			
581.97		+25			
582.01		+44.81			
		+50			
		+75			
		122+00			
		+25			
		+50			
		+75			
		123+00			
		+25			
		+50			
		+75			
		124+00			
		+25			
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		125+00			
		+25			
		+50			
		+75			
		126+00			
		+25			
		+50			
		+75			
		127+00			
		+25			
		+50			
582.01		+75	581.85		581.69
582.02		128+00	581.86		581.70
582.05		+25	581.89		581.73
582.14		+50	581.98		581.82
582.27		+75	582.11		581.95
582.44		129+00	582.28		582.12
582.61		+10.81	582.45		582.29
582.65		+25	582.50		582.34
582.80		+50	582.76		582.60
583.05		+69.81	583.00		582.84
583.11		+75	583.07		582.91
583.42		130+00	583.43		583.27
583.76		+25	583.82		583.66
584.15		+50	584.27		584.07
584.47		+69.81	584.63		584.47
584.48	10'	+75	584.64	10'	584.48

PAVEMENT ELEVATIONS

LAWRENCE COUNTY
LAW-522-0.75

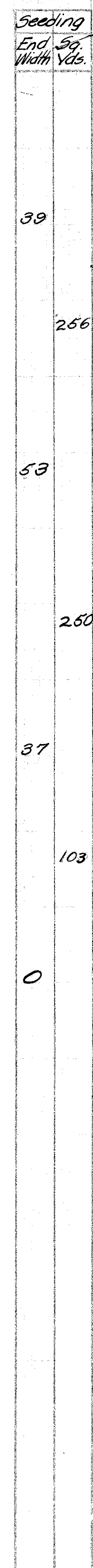
$D_c = 9^{\circ}30'$		$\Delta = 119^{\circ}00' \text{ L.T.}$		$L_s = 200'$	
T.S. 49+55		C.S. 62+07.63		S.T. 64+07.63	
S.C. 51+55					
Elevation Lt. Edge	Width	Station	Center Elevation	Width	Elevation Rt. Edge
580.54	10'	48+25	580.70	10'	580.54
580.40		+25	580.56		580.40
580.35		49+00	580.51		580.37
580.17		+25	580.33		580.25
580.00		+50	580.16		580.15
579.96	10'	+25	580.12		580.12
579.83	10.40	+75	580.00		580.15
579.70	10.80	+25			580.18
579.58	11.20	50+15			580.23
579.46	11.60	+25			580.28
579.33	12.00	+25			580.33
579.21	12.40	+75			580.40
579.09	12.80	+25			580.47
578.98	13.20	51+15			580.56
578.87	13.60	+25			580.65
578.75	14.00	+25			580.72
578.71		+75			580.70
578.67		52+00			580.66
578.64		+25			580.63
578.62		+50			580.61
578.61		+75			580.60
		53+00			
		+25			
		+50			
		+75			
		54+00			
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		+75			
		117+00			
		+25			
		+50			
		+75			
		118+00			
		+25			
		+50			
		+75			
		119+00			
		+25			
		+50			
		+75			
		120+00			
		+25			
		+50			
		+75			
		121+00			
		+25			
		+50			
		+75			
		122+00			
		+25			
		+50			
		+75			
		123+00			
		+25			
		+50			
		+75			
		124+00			
		+25			
		+50			
		+75			
		125+00			
		+25			
		+50			
		+75			
		126+00			
		+25			
		+50			
		+75			
		127+00			
		+25			
		+50			
		+75			
		128+00			
		+25			
		+50			
		+75			
		129+00			
		+25			
		+50			
		+75			
		130+00			
		+25			
		+50			
		+75			
		131+00			
		+25			
		+50			
		+75			
		132+00			
		+25			

Prop. Drive Rt. & 5th. 40+88

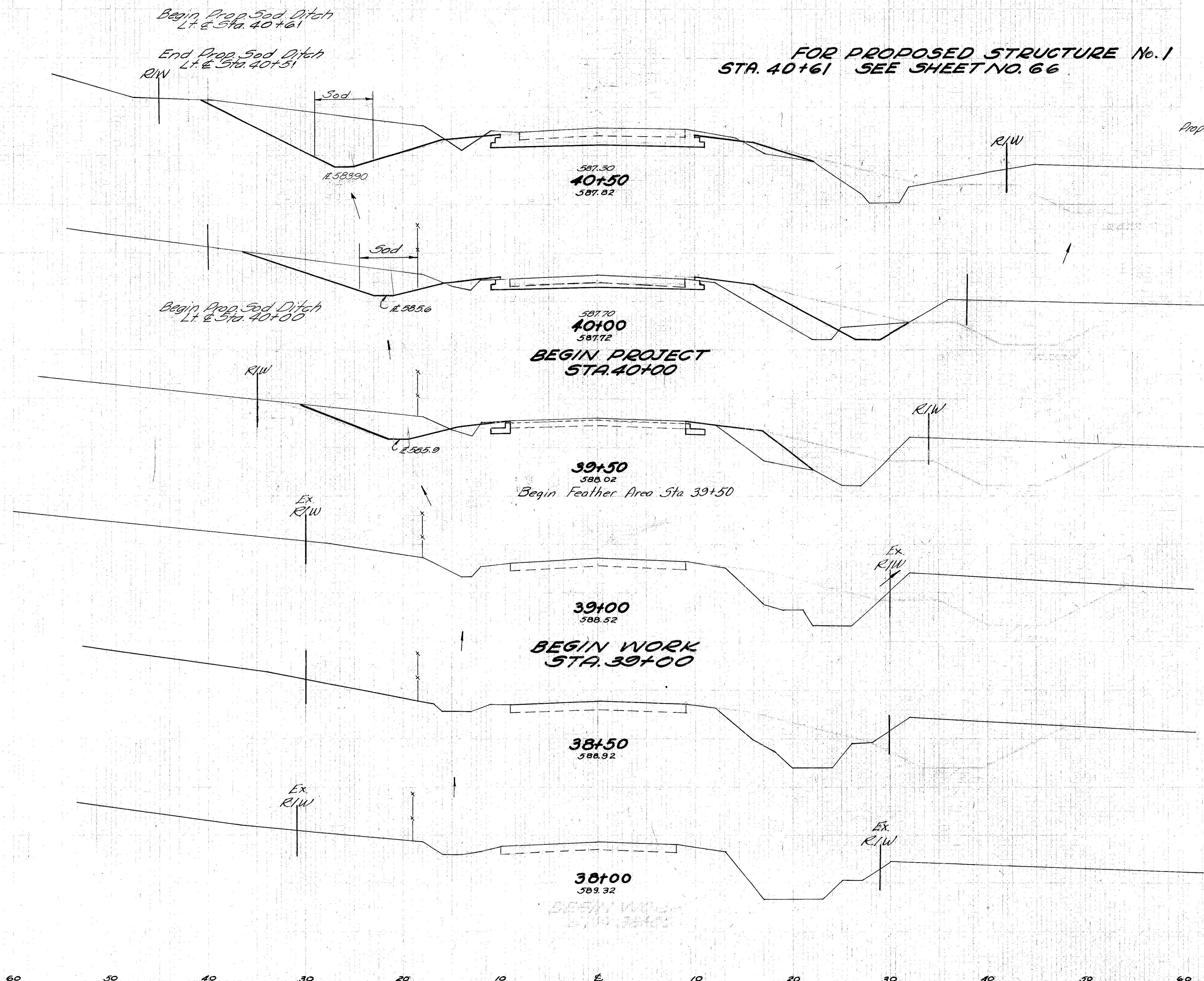
Excavation 76,450 Cu.Yds.
Embankment 72,009 Cu.Yds.

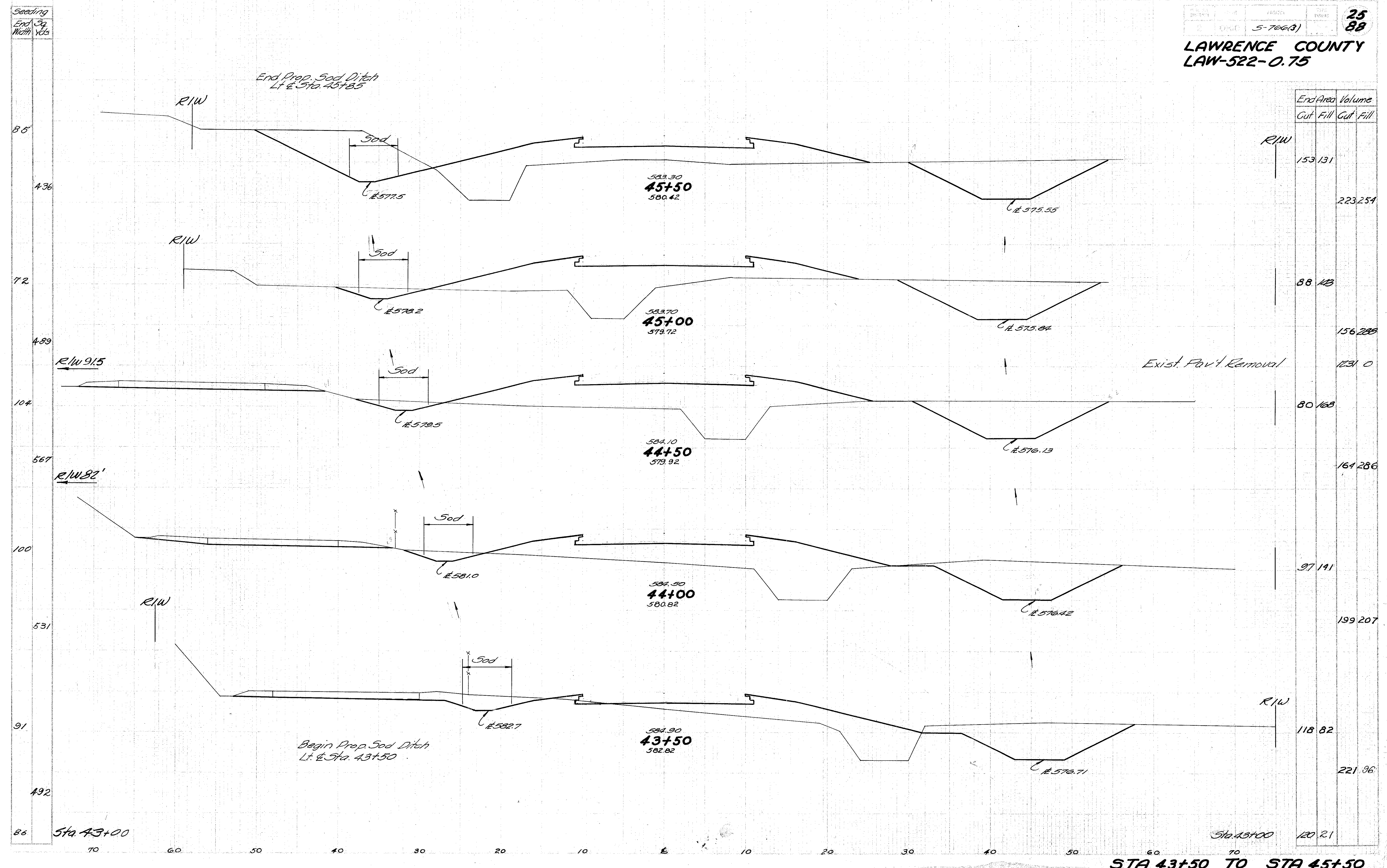
End Area		Volume	
Cut	Fill	Cut	Fill
		0	0
88	5		
		144	30
67	27		
		85	41
24	17		
		22	10
0	0		
		27	12
24	17		

STA 38+00 TO STA 40+50



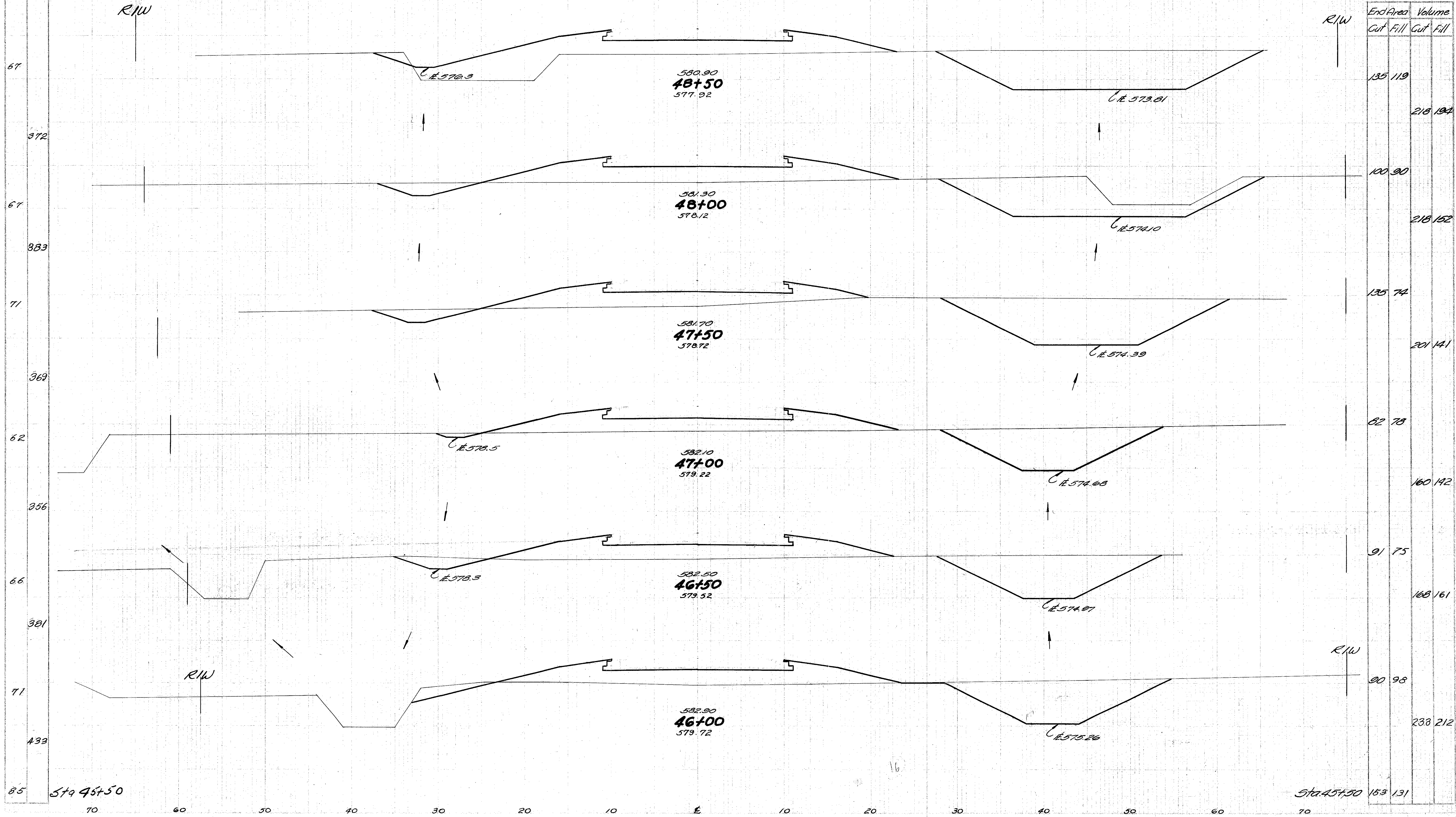
ITEM 1-9 SEEDING & PROTECTING
STA. 39+00 to STA 134+00
72,755 Sq. Yd.





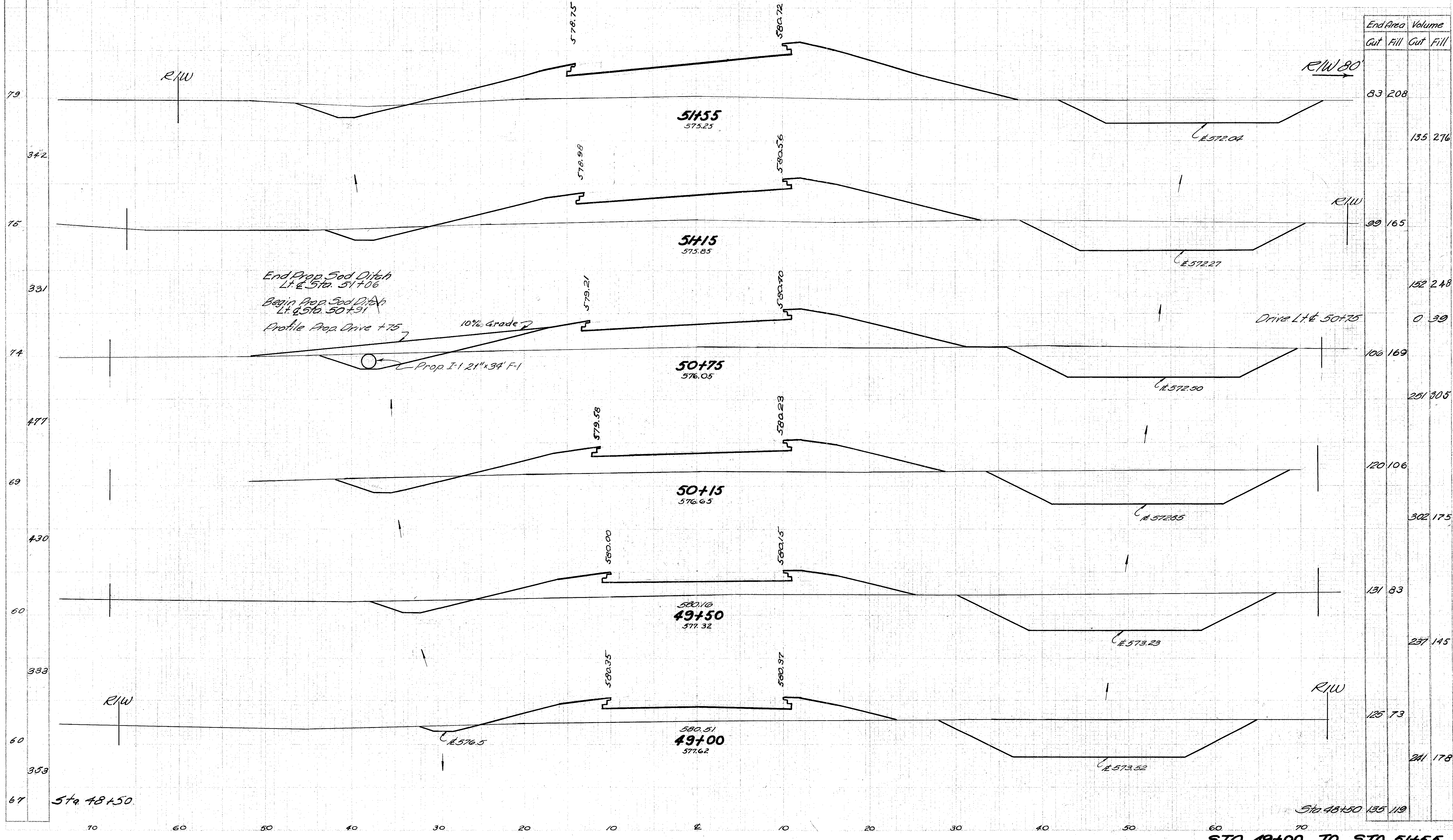
Seeding
End Sta.
Width Yds

LAWRENCE COUNTY
LAW-522-0.75



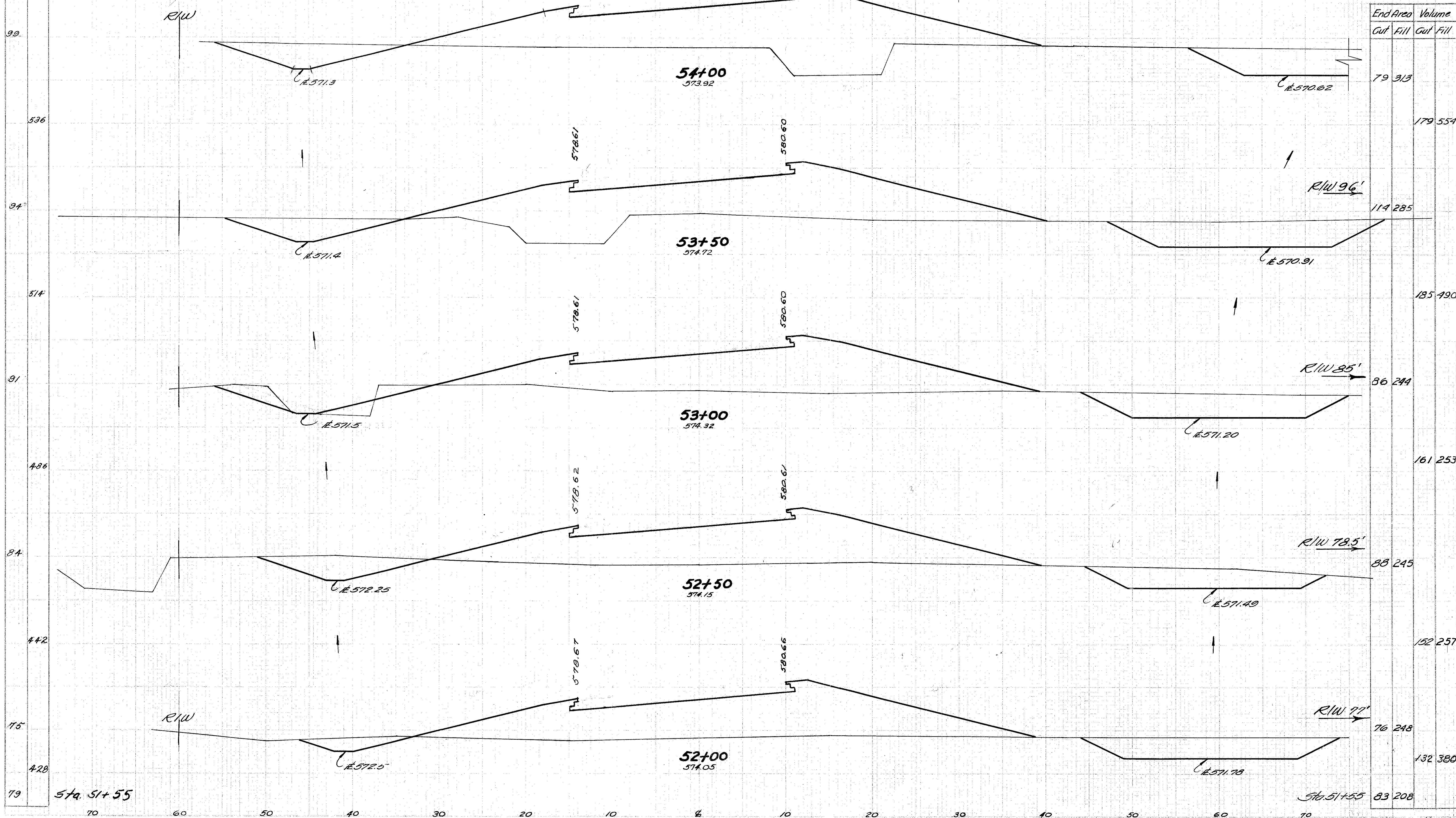
Seeding
End Sq
Width Yds

LAWRENCE COUNTY
LAW-522-0.75



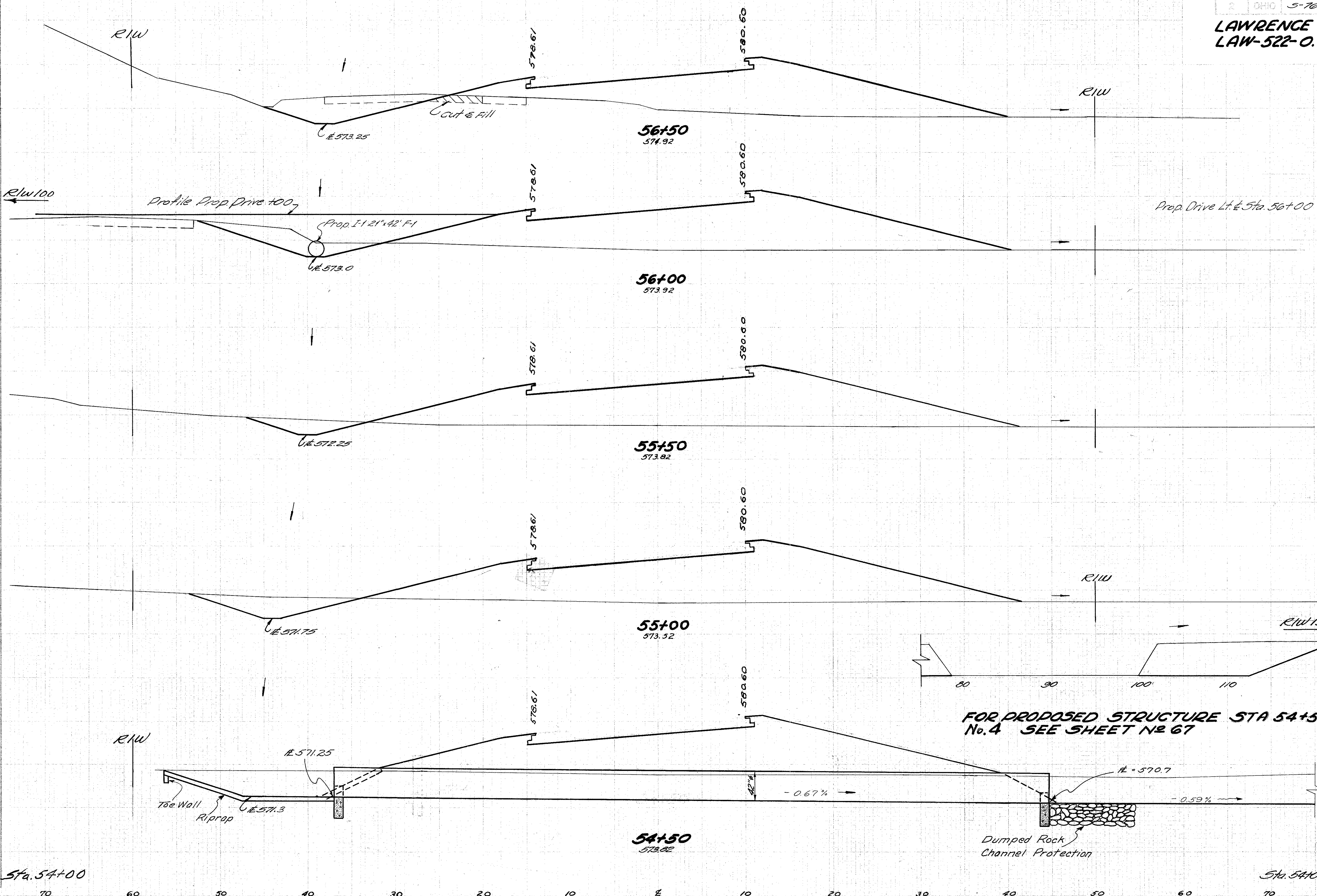
Seeding
End Sp
Width Yds

LAWRENCE COUNTY
LAW-522-O.75



Seeding
End Sp.
Width Yds.

6.4
378
72
386
67
392
74
417
76
486
99



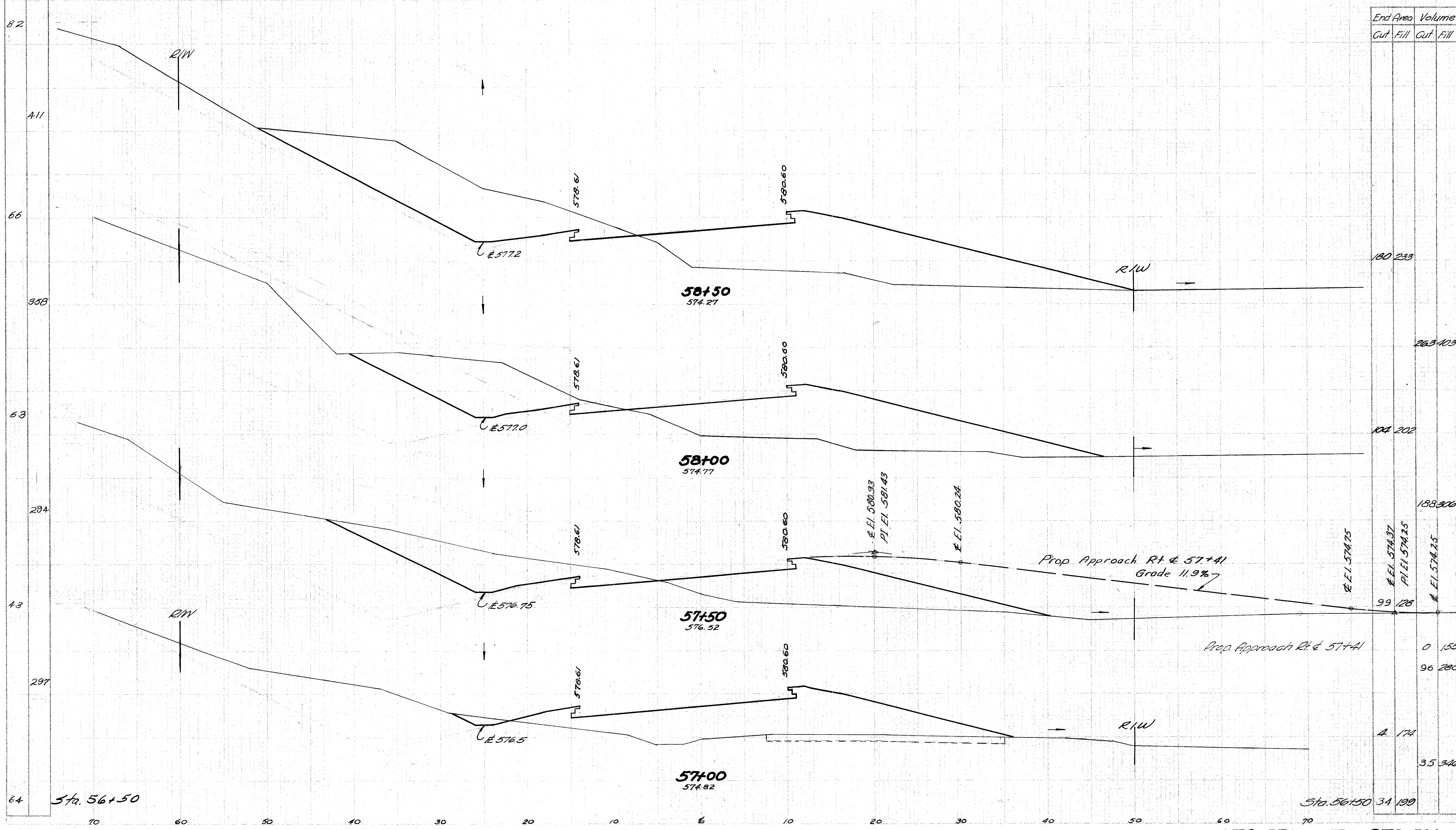
End Area		Volume	
Cut	Fill	Cut	Fill
34	199		
		58	423
		0	148
28	258		
		30	497
		14	278
		38	520
		27	283
		60	516
		37	274
		108	544
		79	313
		6	81

FOR PROPOSED STRUCTURE STA 54+50
No. 4 SEE SHEET No. 67

Dumped Rock
Channel Protection

Seeding
End Sq.
Width Yds.

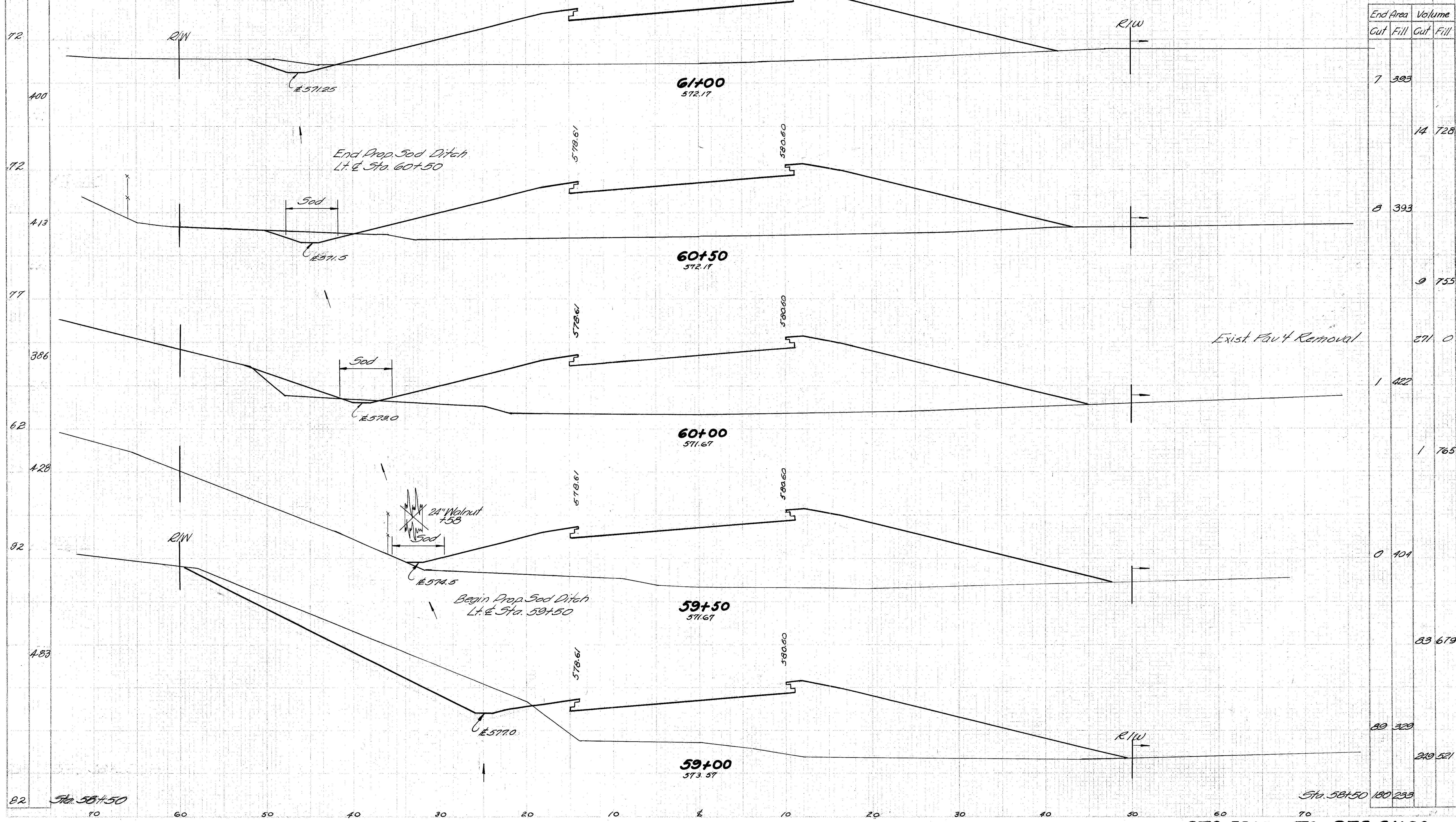
**LAWRENCE COUNTY
LAW-522-O.75**



End Area		Volume	
Cut	Fill	Cut	Fill
180	233		
		263	403
104	202		
		188	206
99	128		
		0	155
		96	280
A	174		
		35	340
Sta. 56+50	34	100	

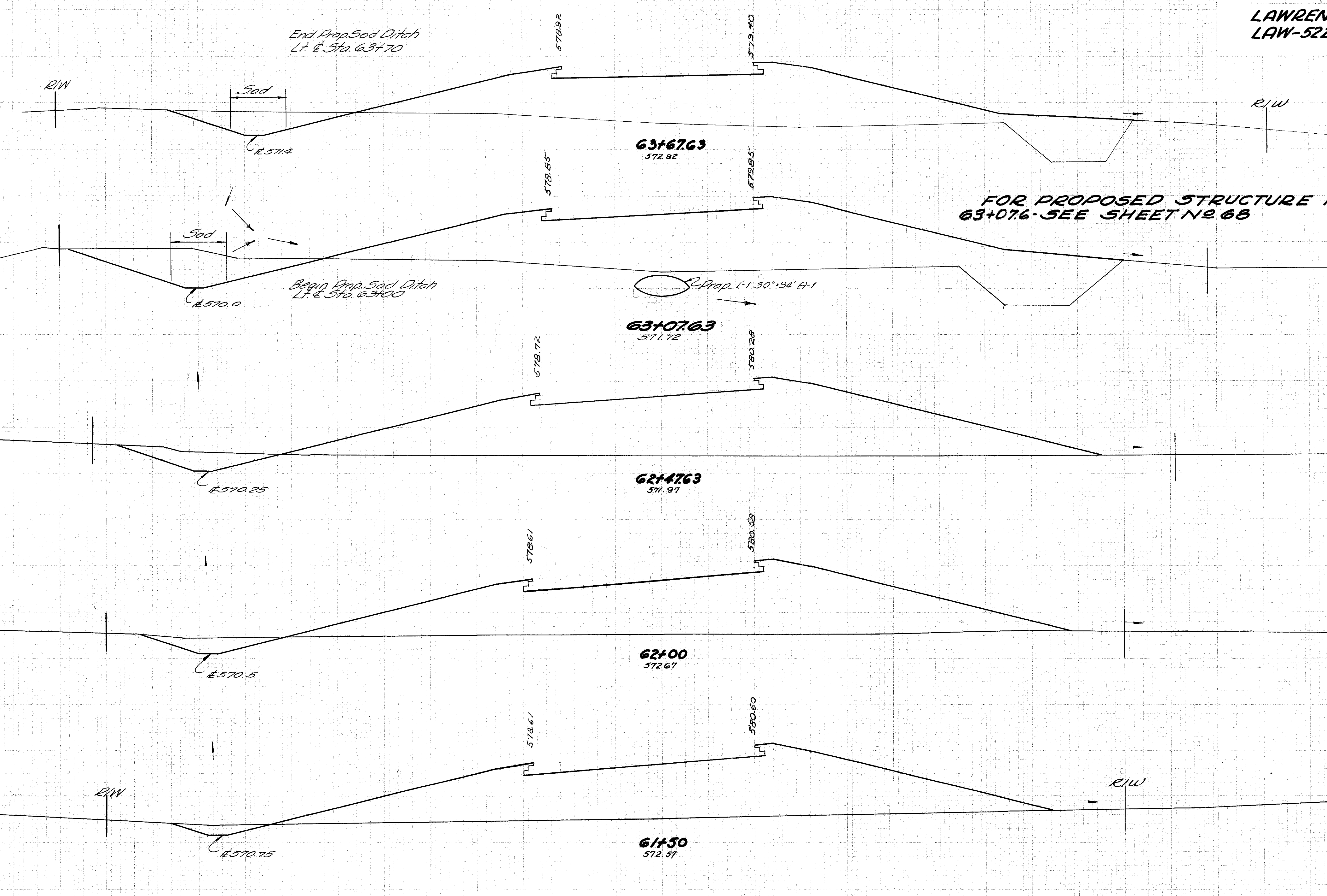
Seeding
End Sq.
Width Yds.

**LAWRENCE COUNTY
LAW-522-0.75**



End Area		Volume	
Cut	Fill	Cut	Fill
7	393		
		14	728
8	393		
		9	755
		271	0
1	422		
		1	765
0	104		
		83	679
89	320		
		210	521
		180	233

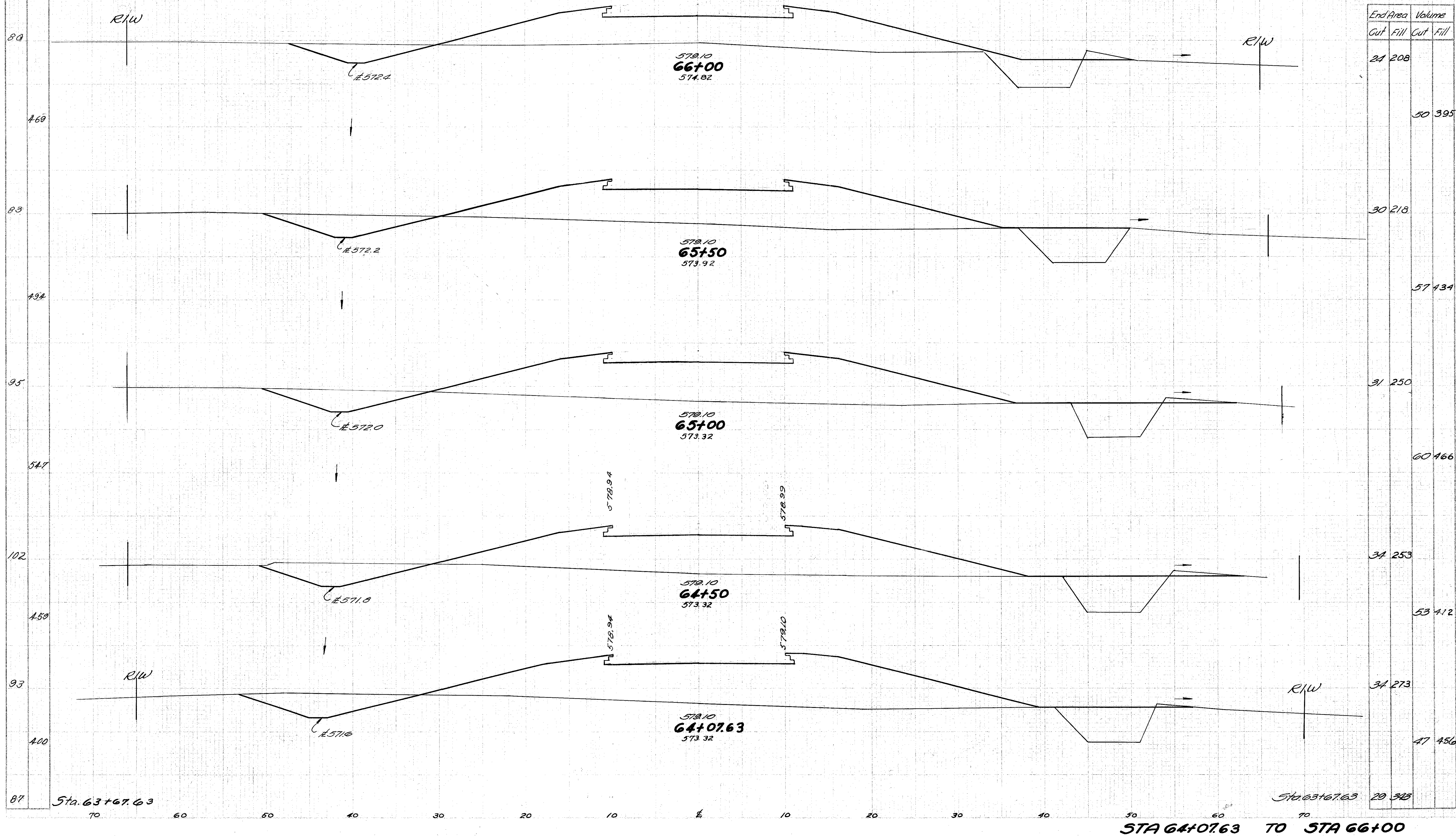
Seeding	End Sp.
Width	Yds.
87	
607	
93	
603	
86	
439	
80	
428	
74	
406	
72	



End Area		Volume	
Gut	Fill	Gut	Fill
29	343		
		98	851
59	423		
		89	943
21	426		
		32	701
15	369		
		21	696
7	382		
		13	718
7	323		

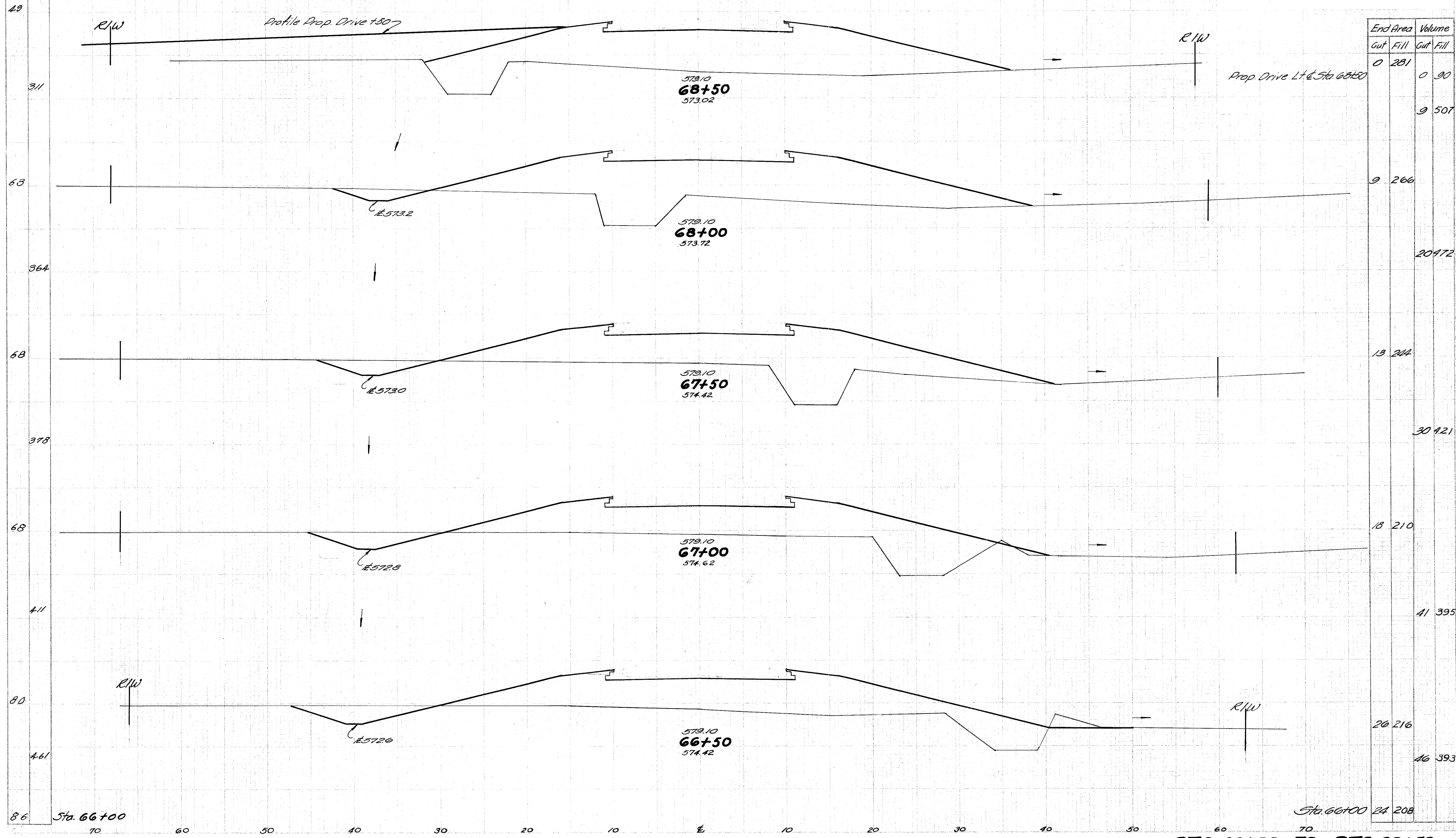
Seeding
End Sta.
Width Yds.

LAWRENCE COUNTY
LAW-522-0.75



Seeding
End Sq.
Width Yds.

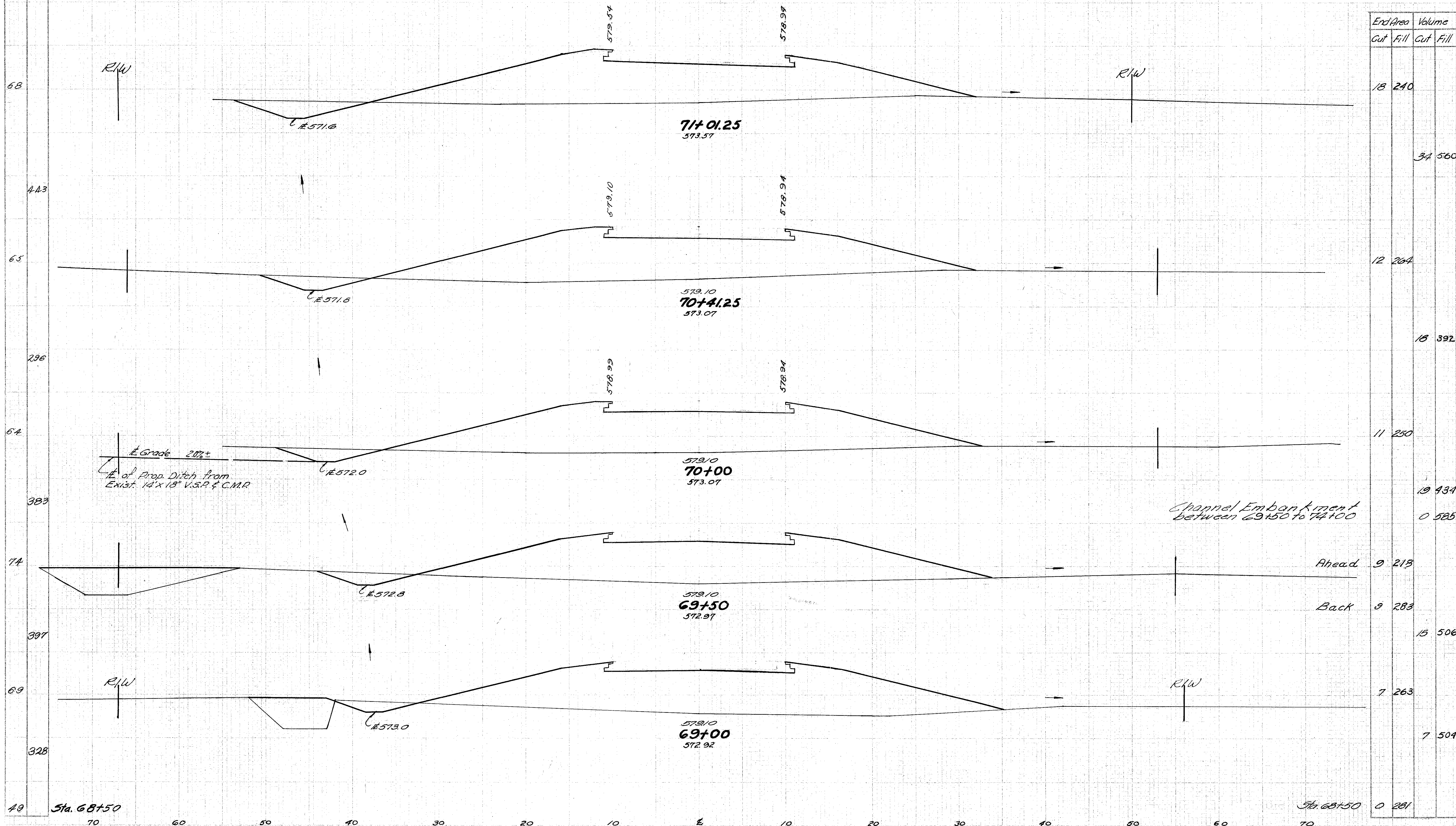
LAWRENCE COUNTY
LAW-522-0.75



Seeding
End
Width
Yds.

35
28

LAWRENCE COUNTY
LAW-522-0.75

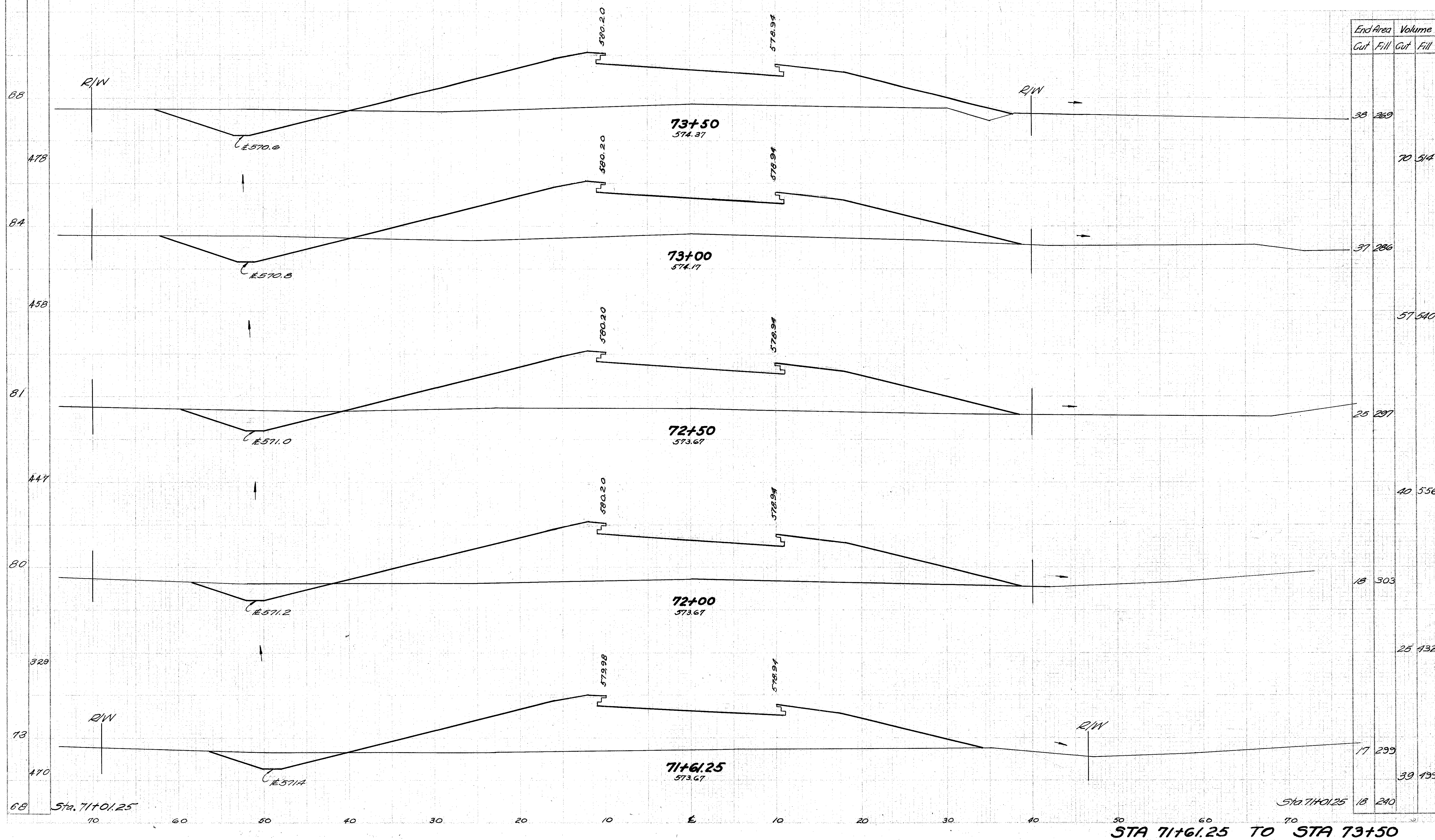


End Area		Volume	
Cut	Fill	Cut	Fill
18	240		
		34	560
12	264		
		16	392
11	250		
		19	434
		0	585
Ahead	9	213	
Back	9	283	
		15	506
7	263		
		7	504
0	281		

STA 69+00 TO STA 71+01.25

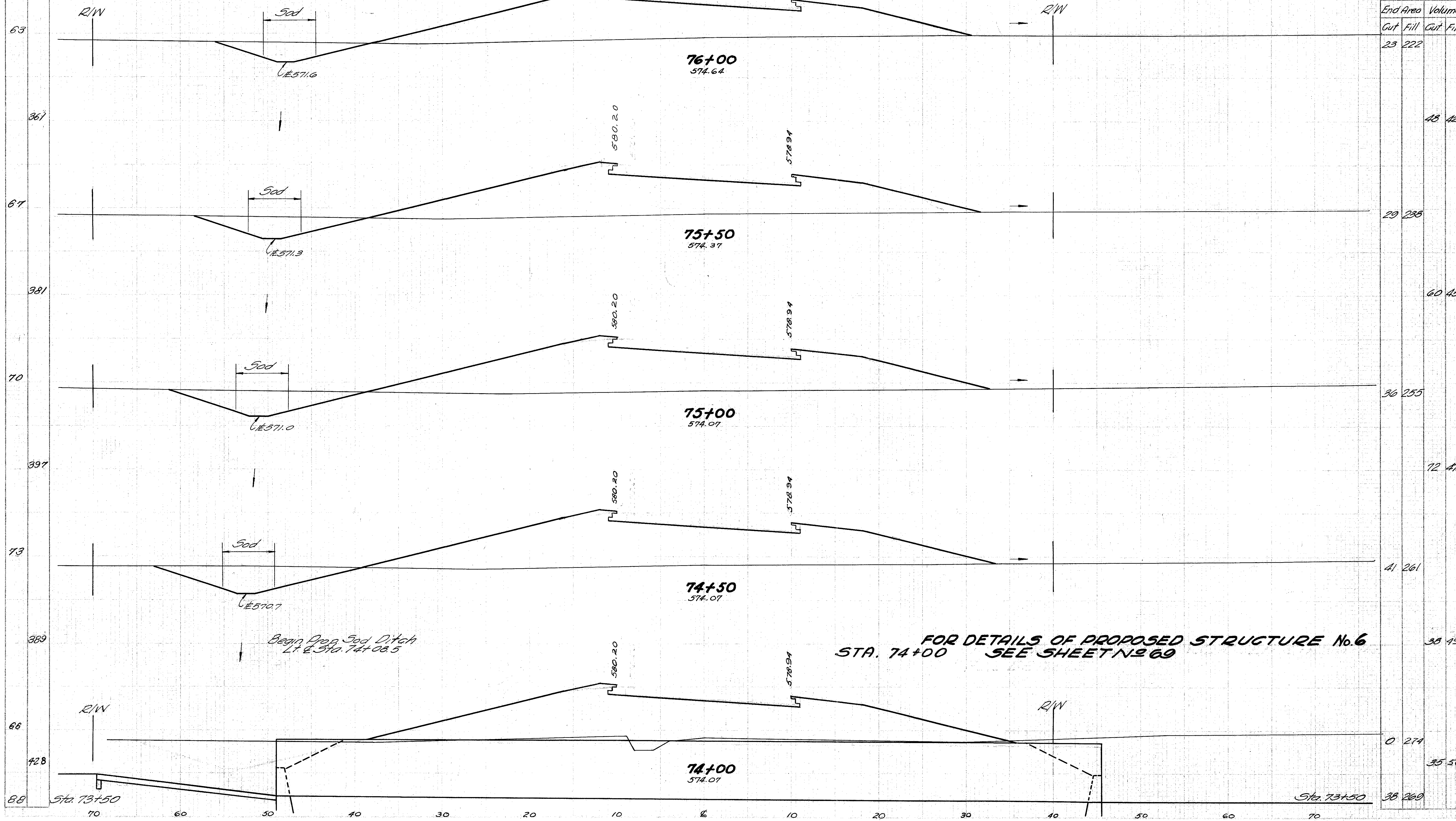
Seeding
End Sta.
Width X65

LAWRENCE COUNTY
LAW-522-0.75

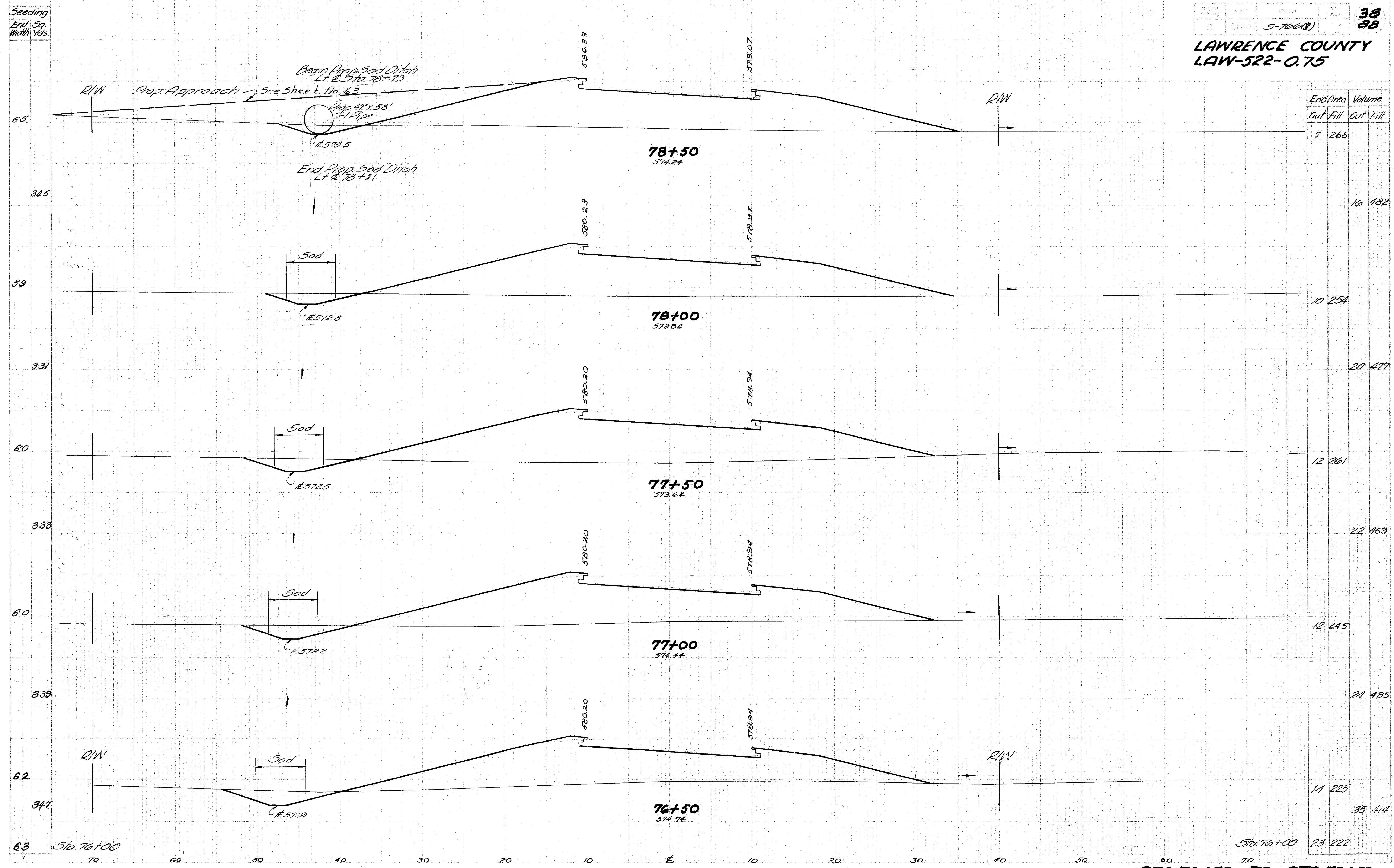


Seeding
End 30
Width Yds.

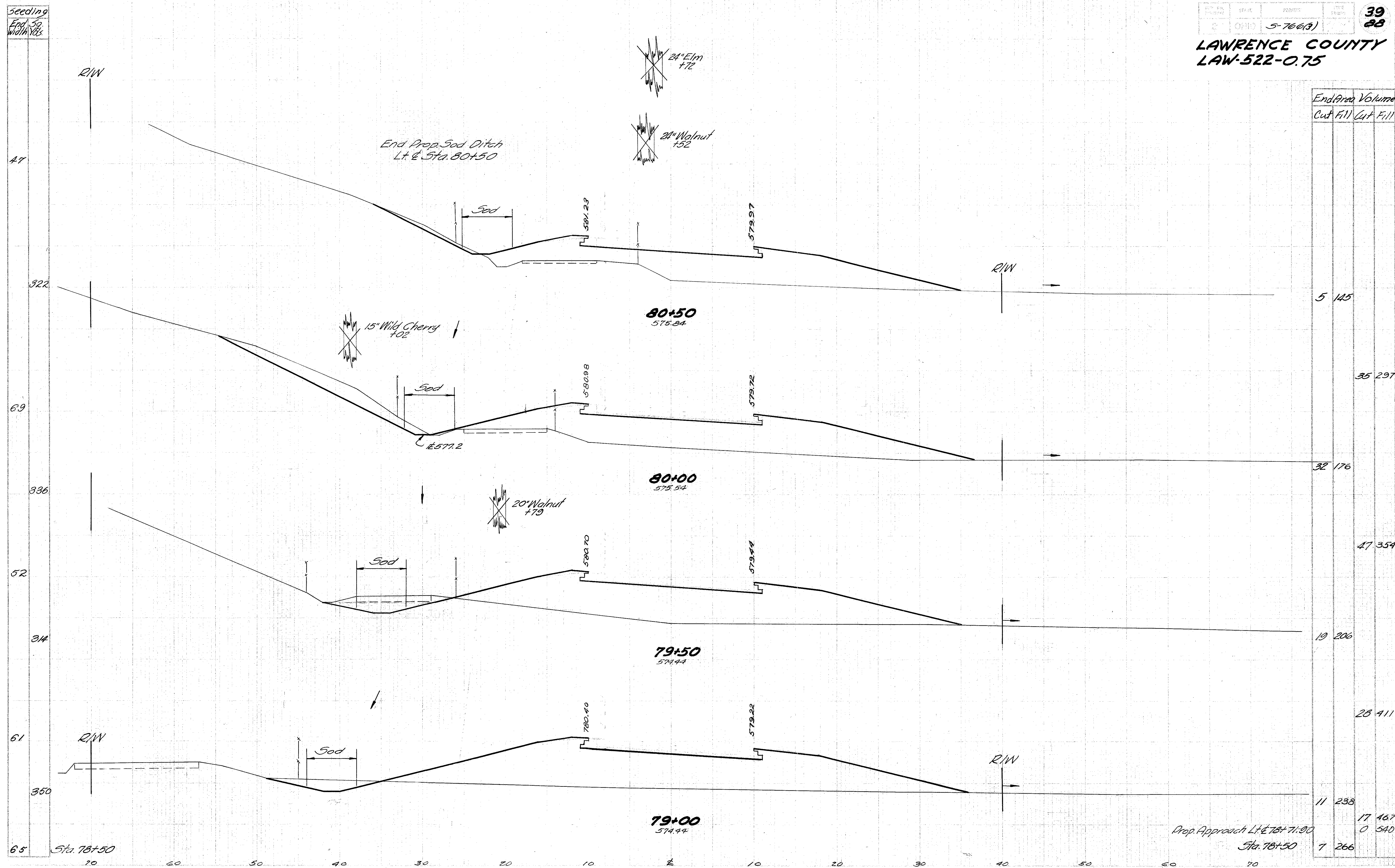
LAWRENCE COUNTY
LAW-522-0.75



LAWRENCE COUNTY
LAW-522-0.75

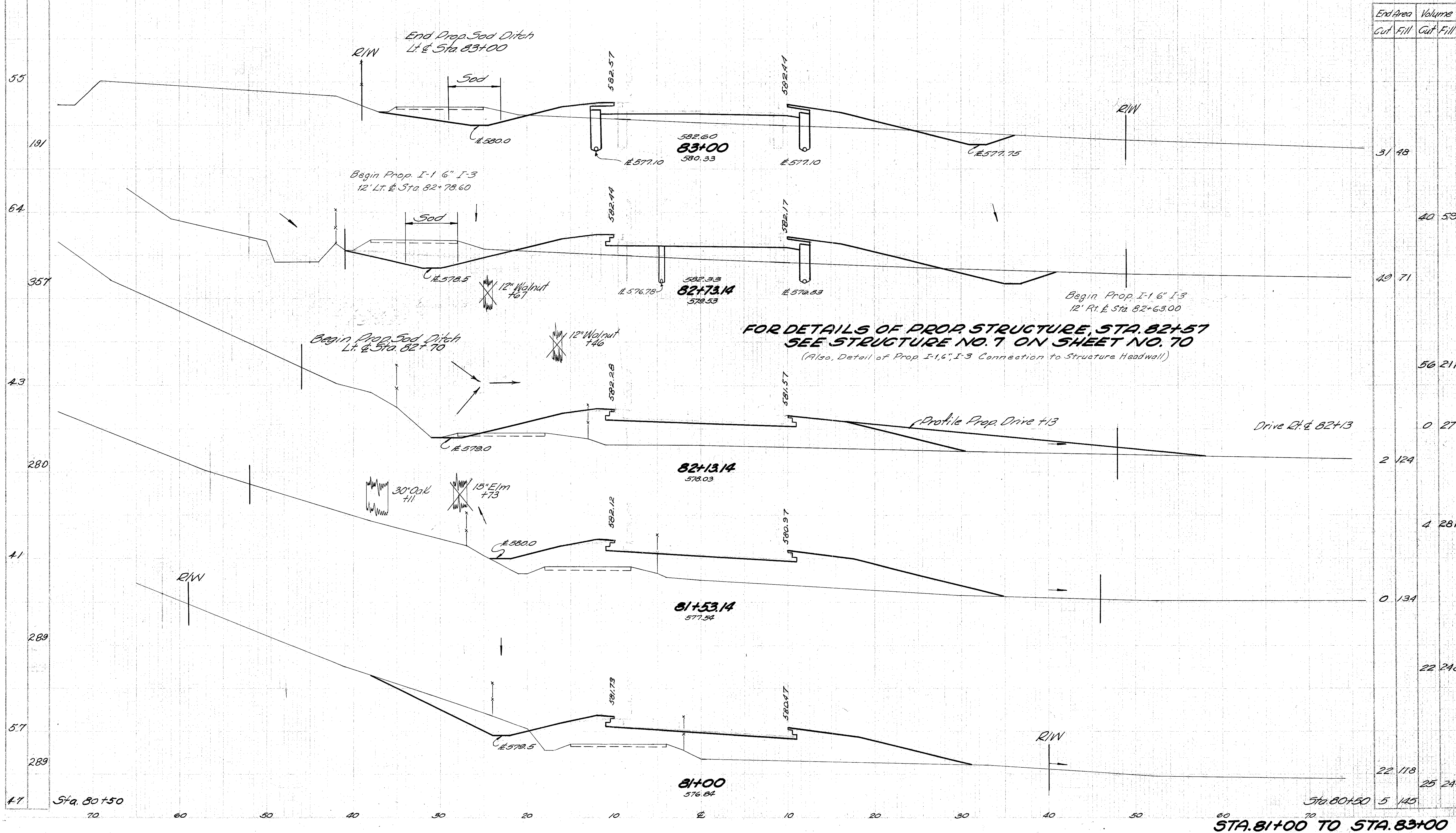


LAWRENCE COUNTY
LAW-522-O.75



STA 79+00 TO STA. 80+50

Seeding
End Sq.
Width Yds

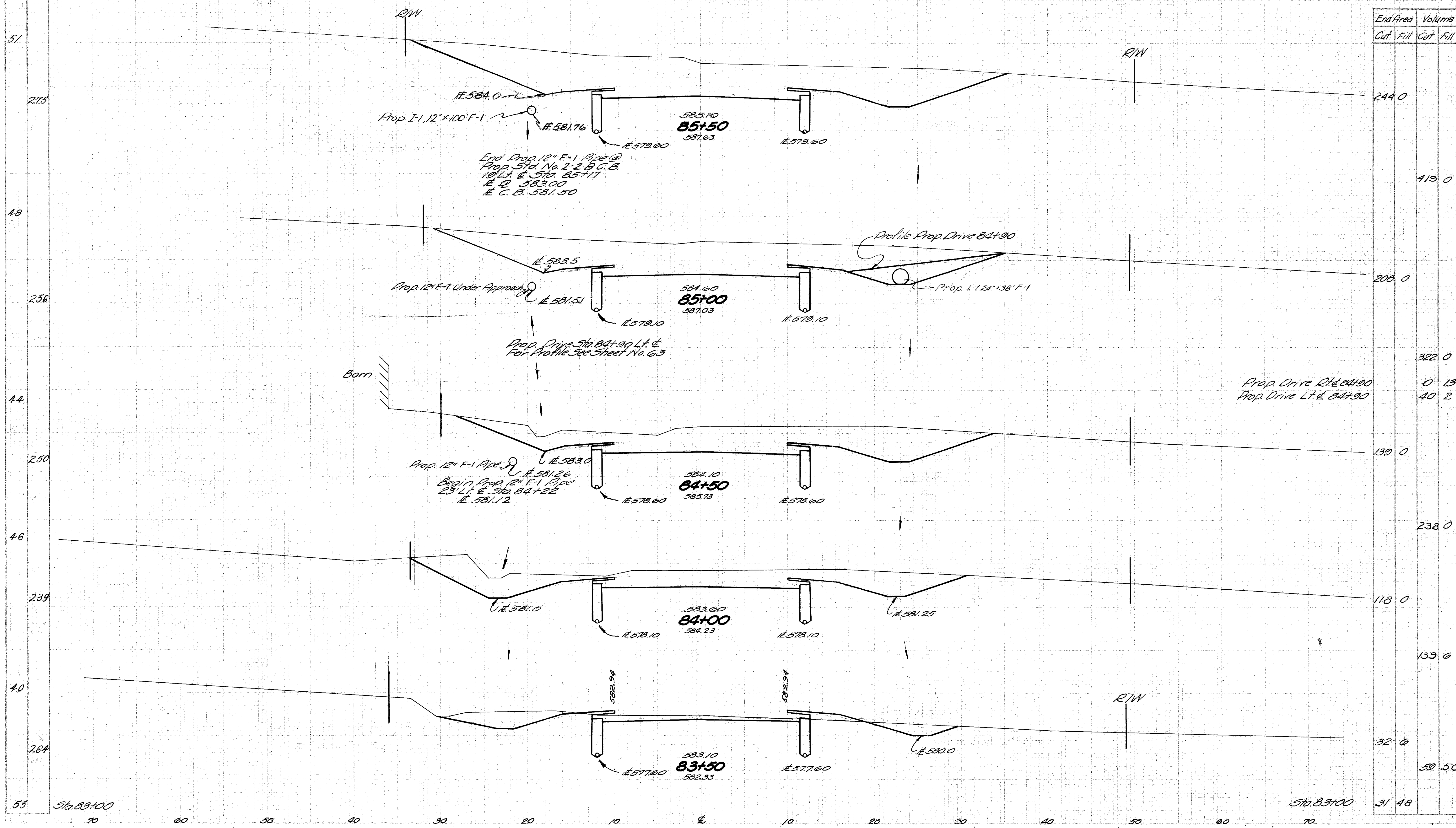


End Area		Volume	
Cut	Fill	Cut	Fill
31	48		
		40	59
40	71		
		56	217
		0	27
2	124		
		4	287
0	134		
		22	248
22	118		
25	244		
5	145		

STA. 81+00 TO STA. 83+00

Seeding
End Sq.
Width Yds

LAWRENCE COUNTY
LAW-522-0.75

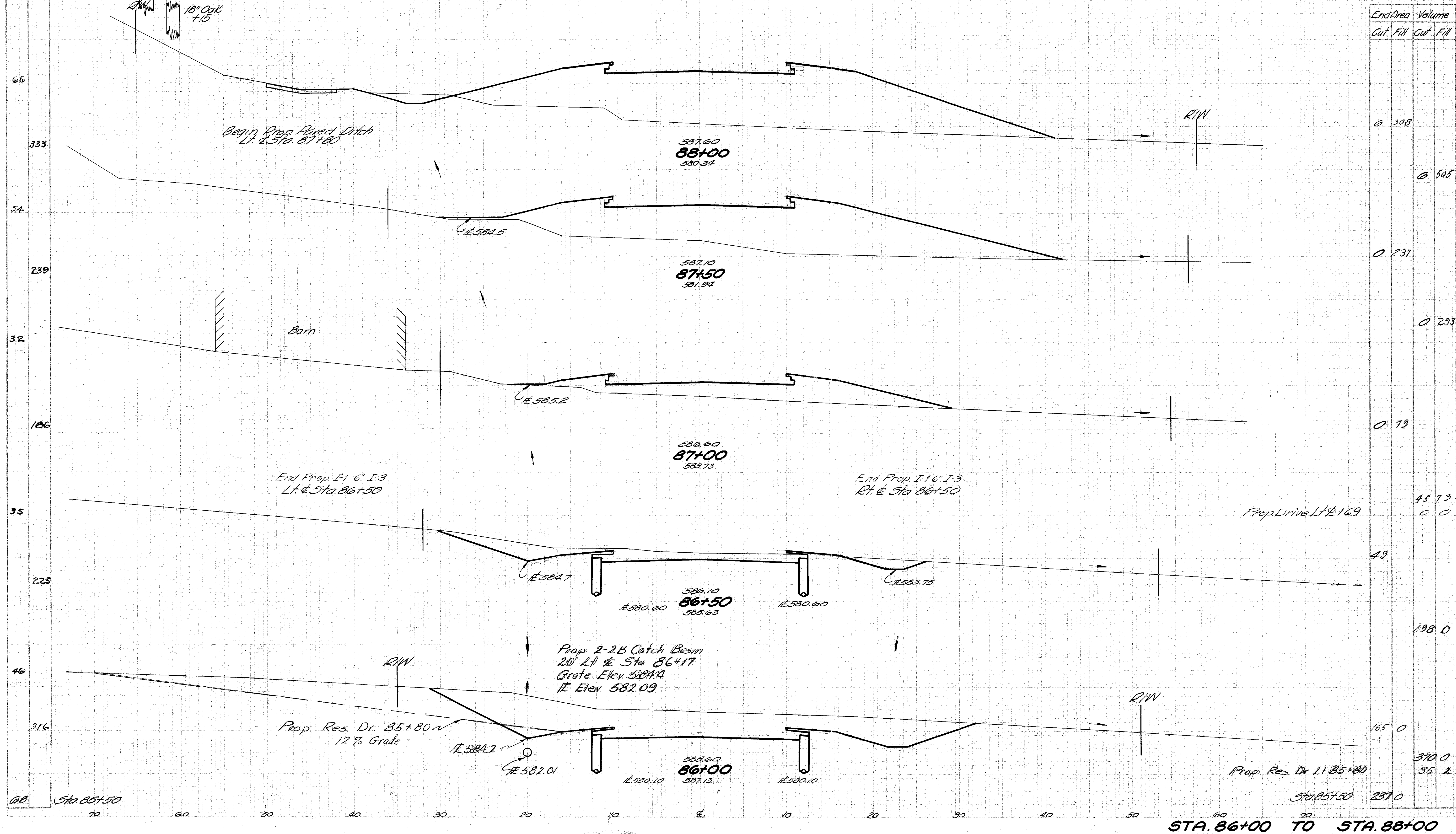


End Area		Volume	
Cut	Fill	Cut	Fill
244	0		
		419	0
206	0		
		322	0
		0	13
		40	2
139	0		
		238	0
118	0		
		139	6
32	6		
		59	50
31	48		

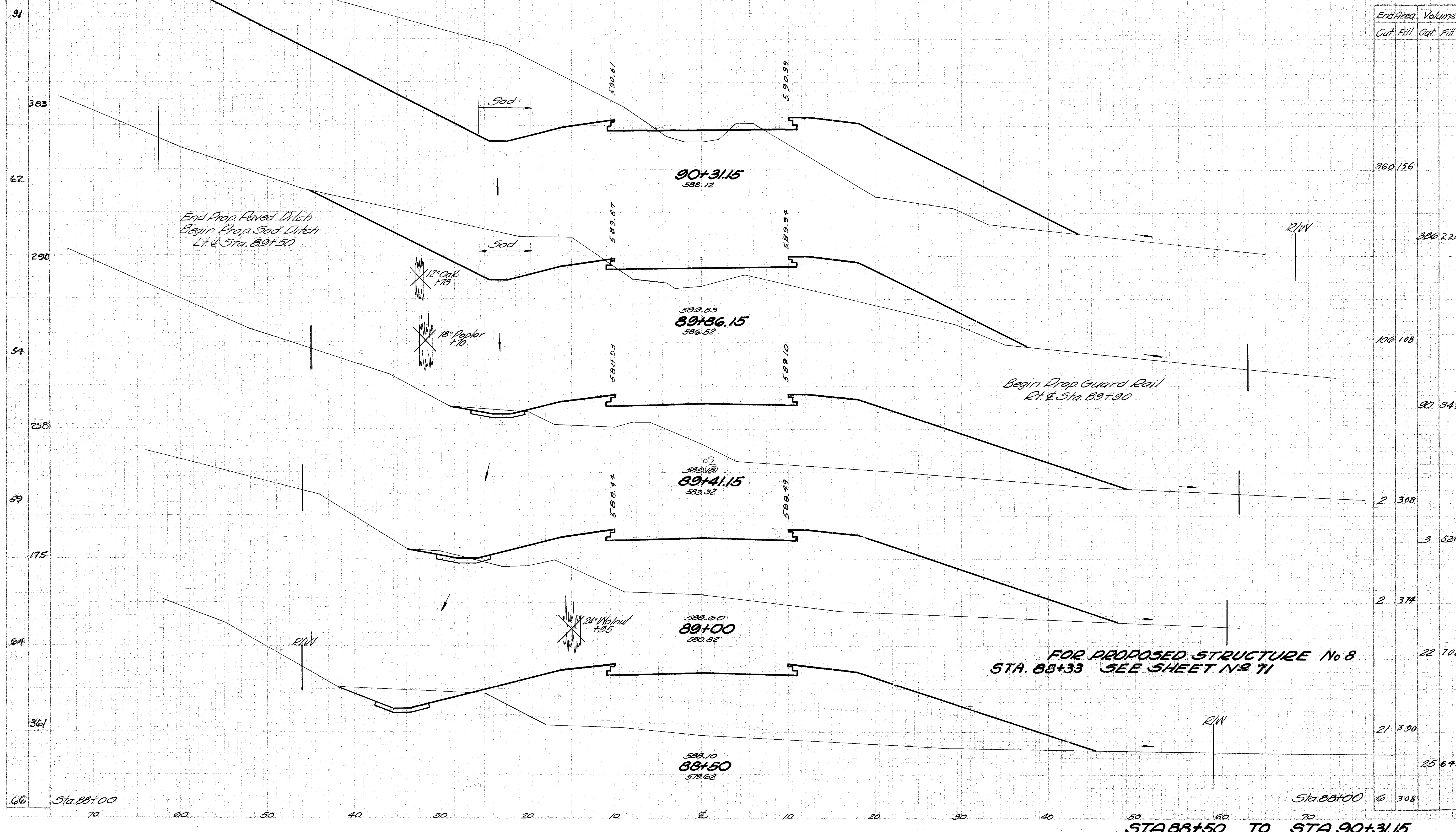
Seeding
End Sq.
Width Yds.

42
88

LAWRENCE COUNTY
LAW-522-0.75

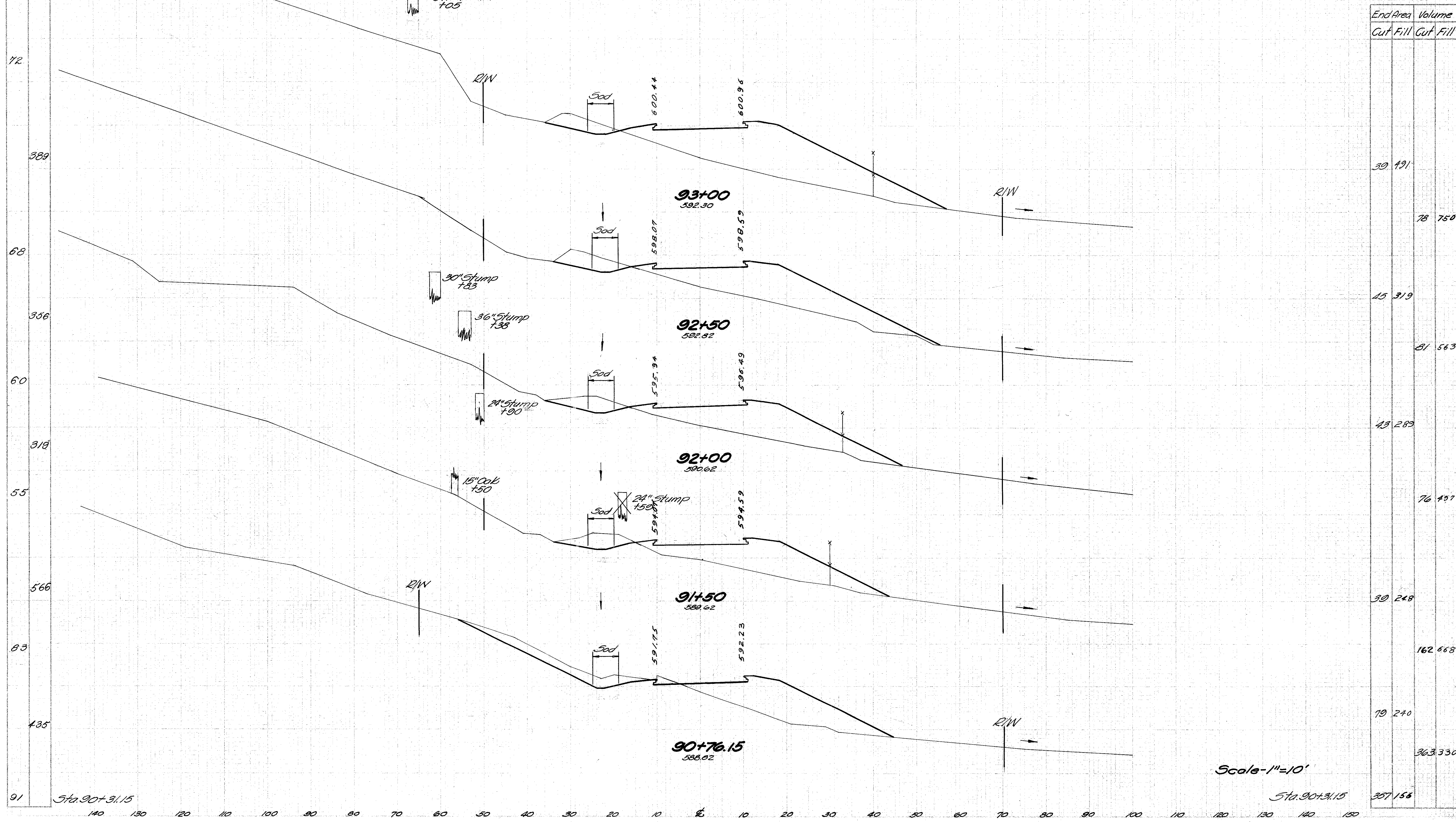


Seeding
End Sq.
Width Vols.



Seeding
End Sq
Width Yds.

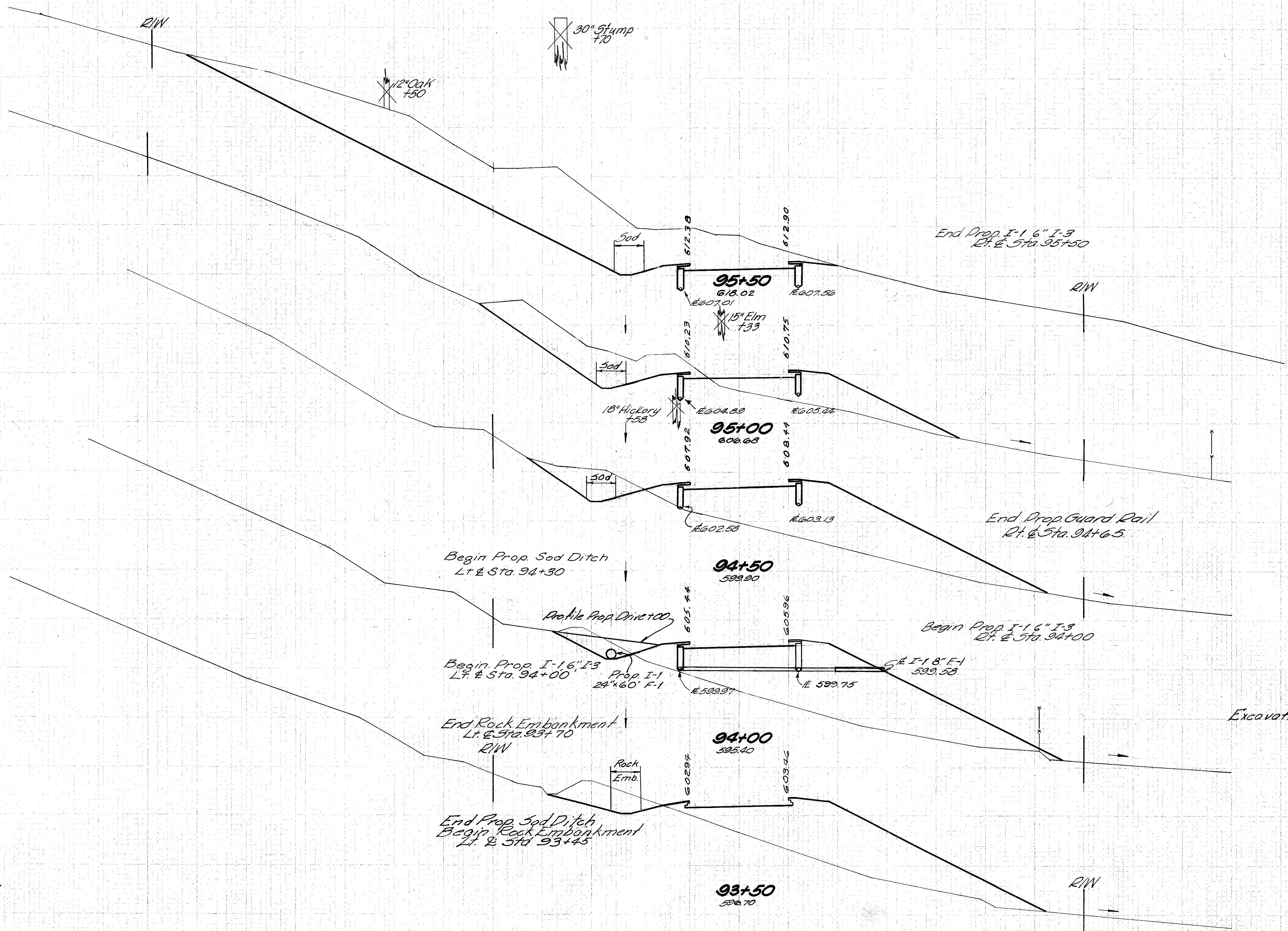
LAWRENCE COUNTY
LAW-522-0.75



End Area		Volume	
Cut	Fill	Cut	Fill
39	491		
		78	750
45	319		
		81	563
43	289		
		76	497
39	248		
		162	668
79	240		
		363	330
357	156		

Seeding
End 52
Width Yds.

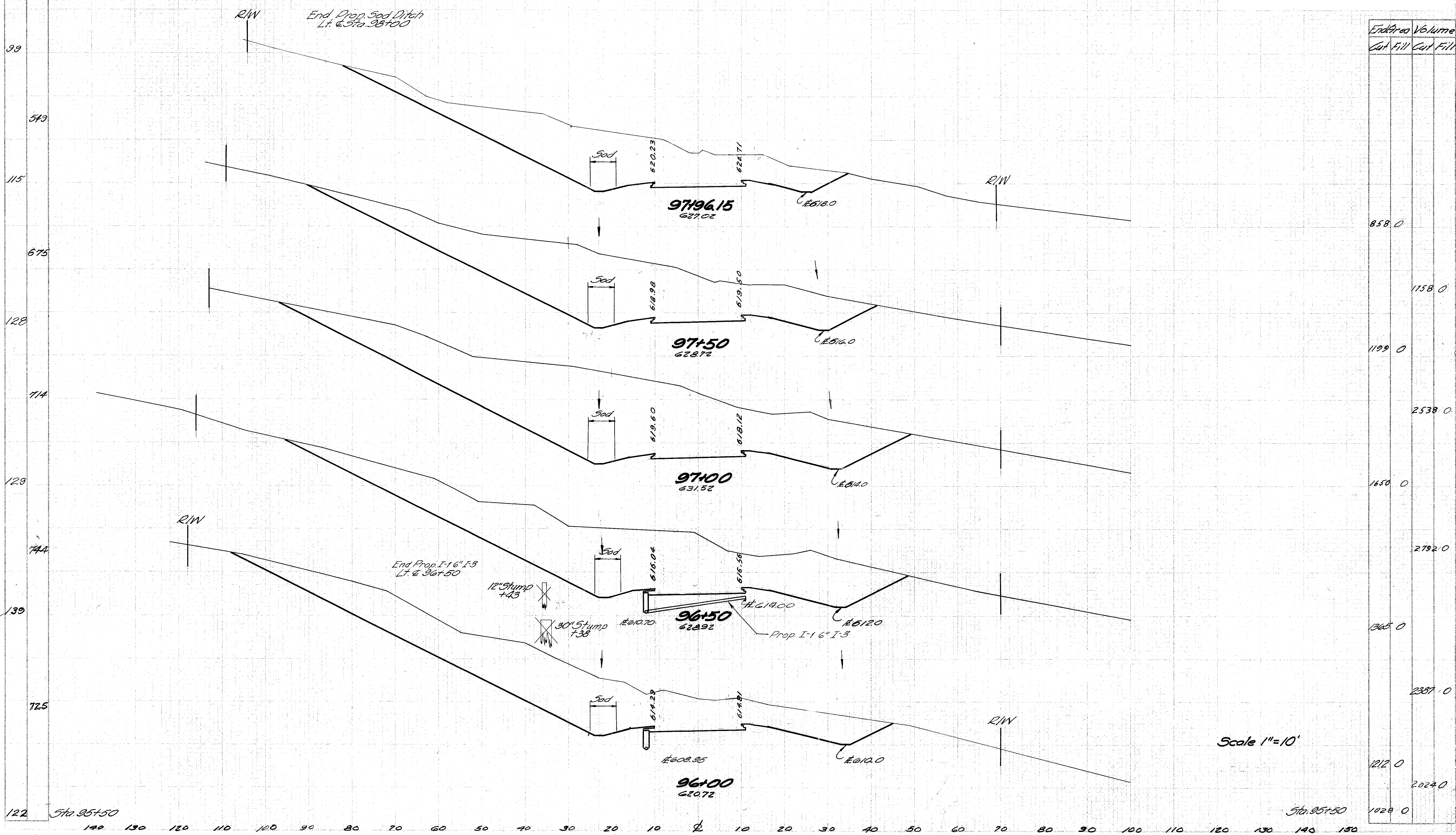
122
564
81
469
88
494
90
475
81
425
72



End Area		Volume	
Cut	Fill	Cut	Fill
1028	0		
		0	0
		1172	188
237	203		
		298	715
85	569		
		120	1101
		0	39
44	713		
		8	0
		109	1114
73	490		
		104	909
39	491		

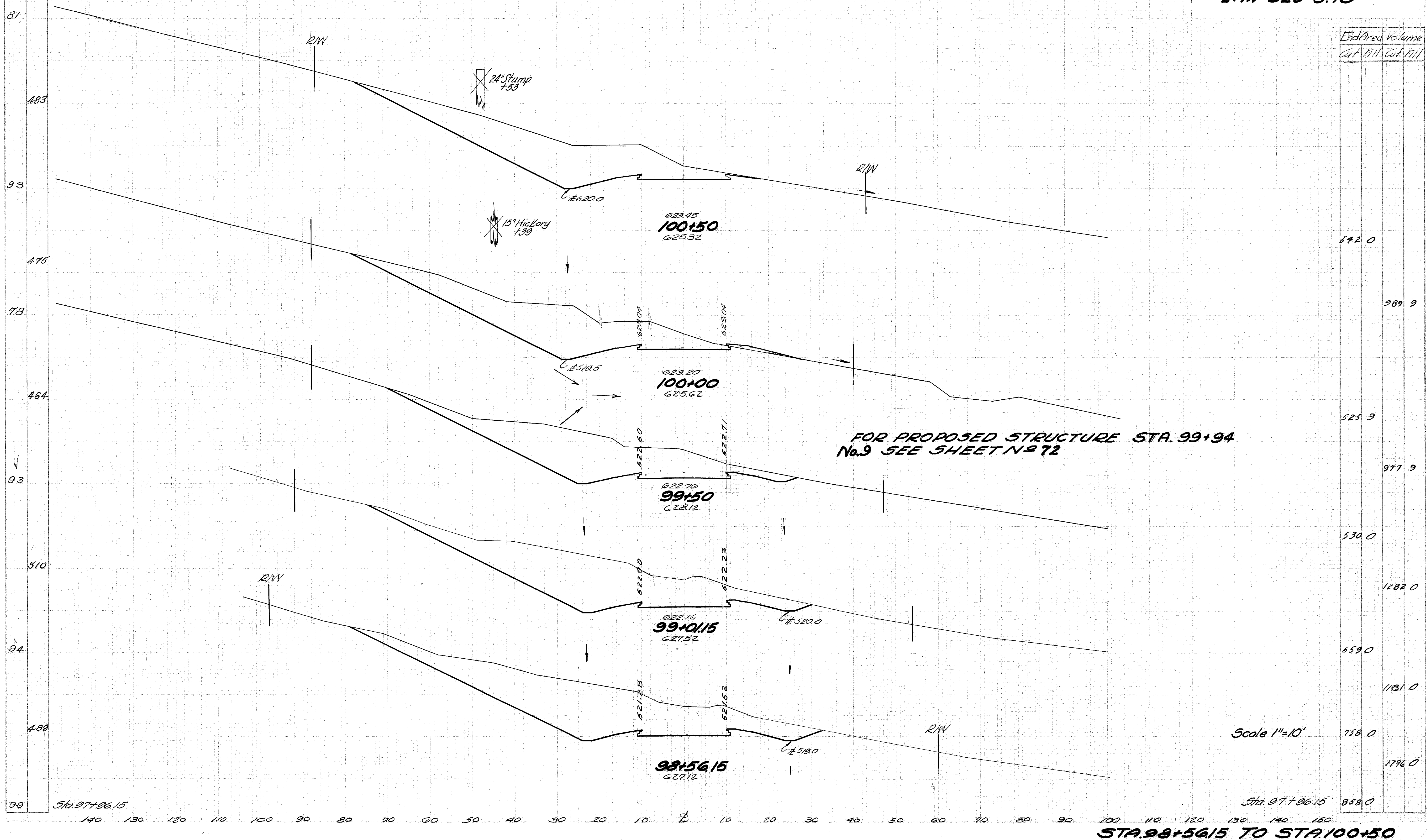
Scale 1"=10'

Seeding
End 50
Width 65

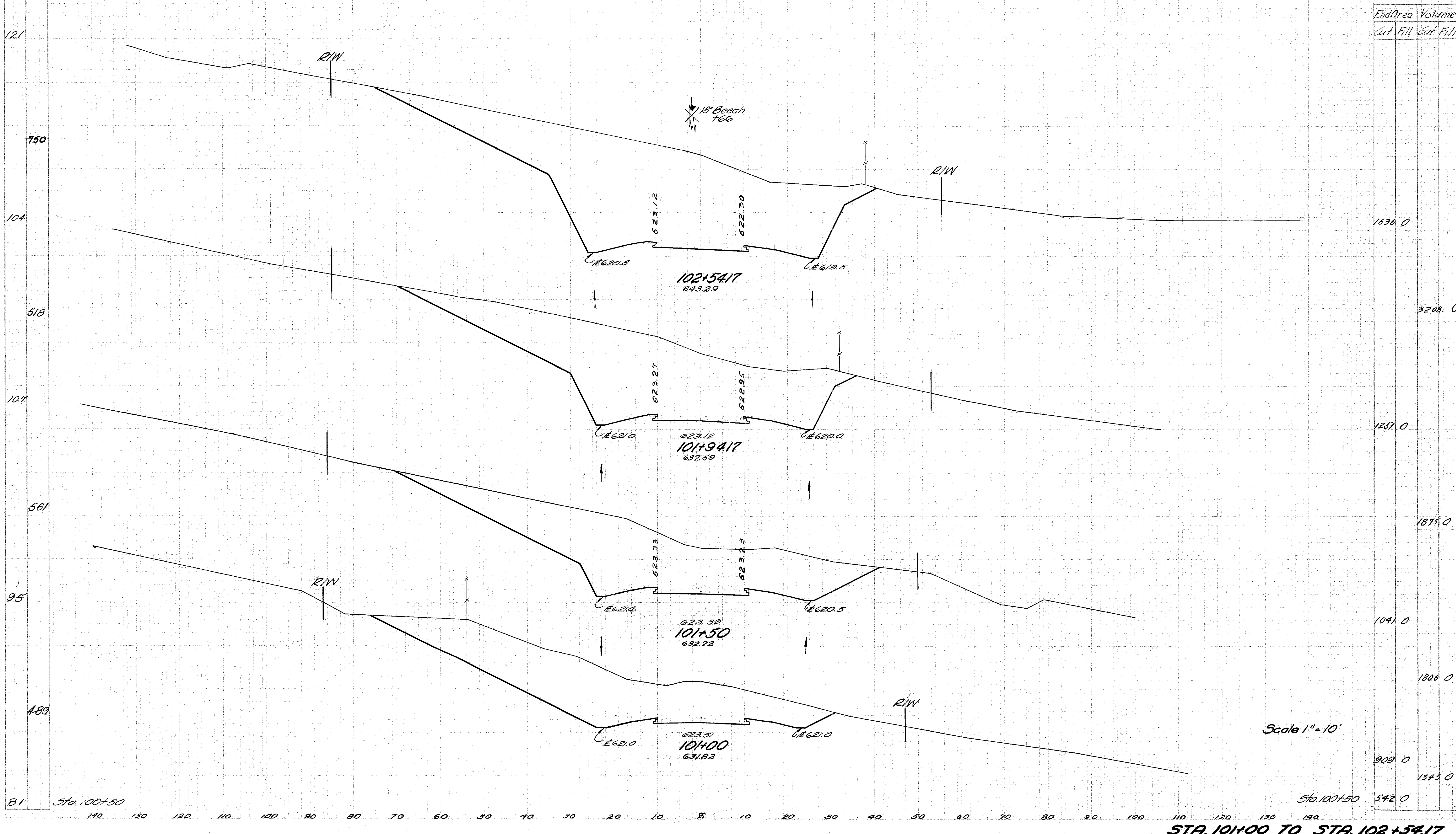


Seeding
Eng. 59
Width 105

LAWRENCE COUNTY
LAW-522-0.75



Seeding
End 5g.
Width 10s



Seedling
End 59,
Width 105.

PLAN
5-766(B)

49
88

LAWRENCE COUNTY
LAW-522-0.75

119

338

116

514

115

504

112

519

121

Sta. 102+54.17

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

STA. 102+94.17 TO STA. 104+00

R/W

R/W

Prop I-1 6"x13' I-3 Lateral/Drain

104+00

630.85

Prop 90° Elbow

Begin Prop I-1 6"x200' I-3
Rt. 2 Sta. 104+00

103+74.17

636.09

103+34.17

645.79

102+94.17

644.09

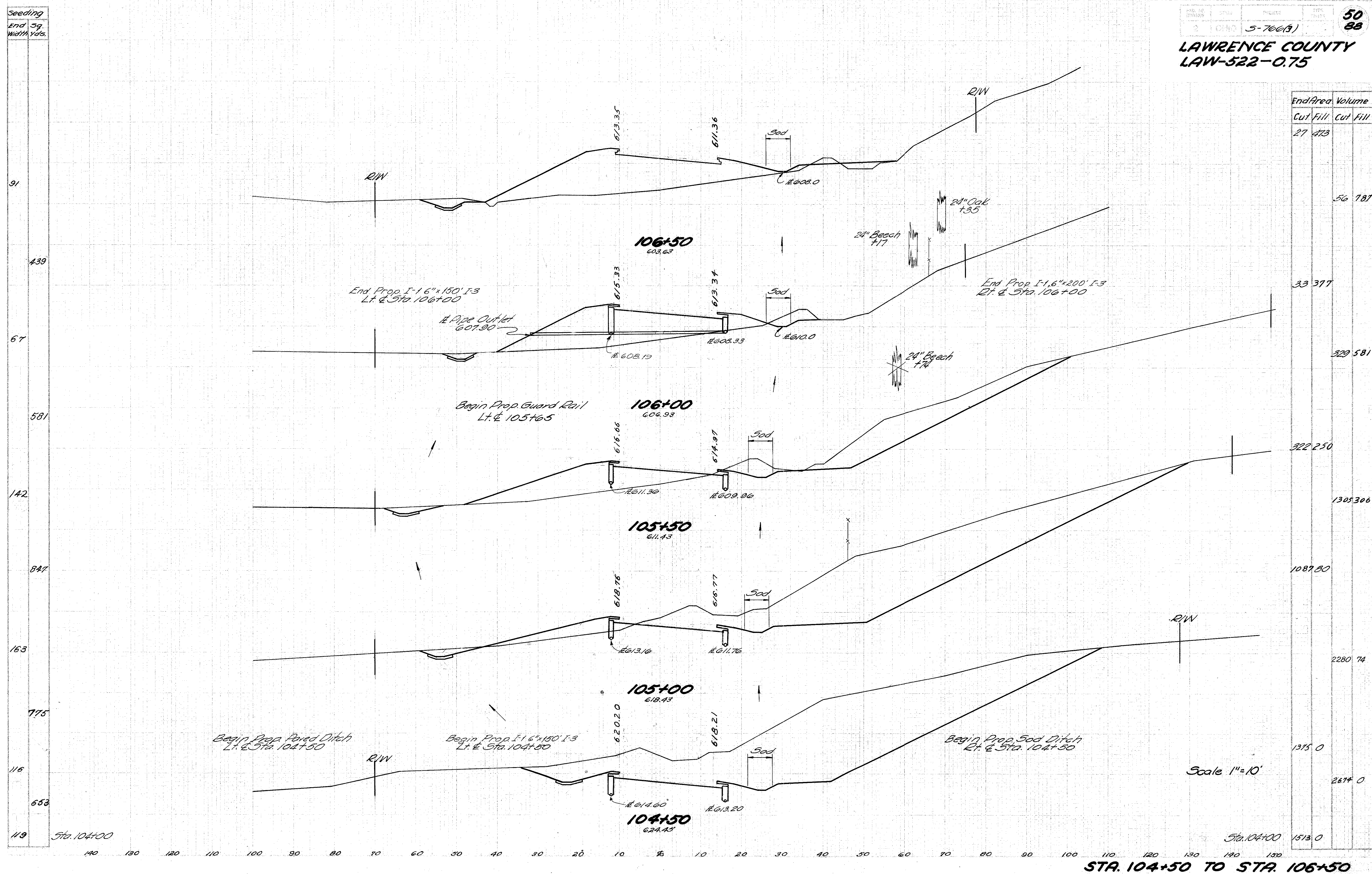
R/W

R/W

Scale 1"=10'

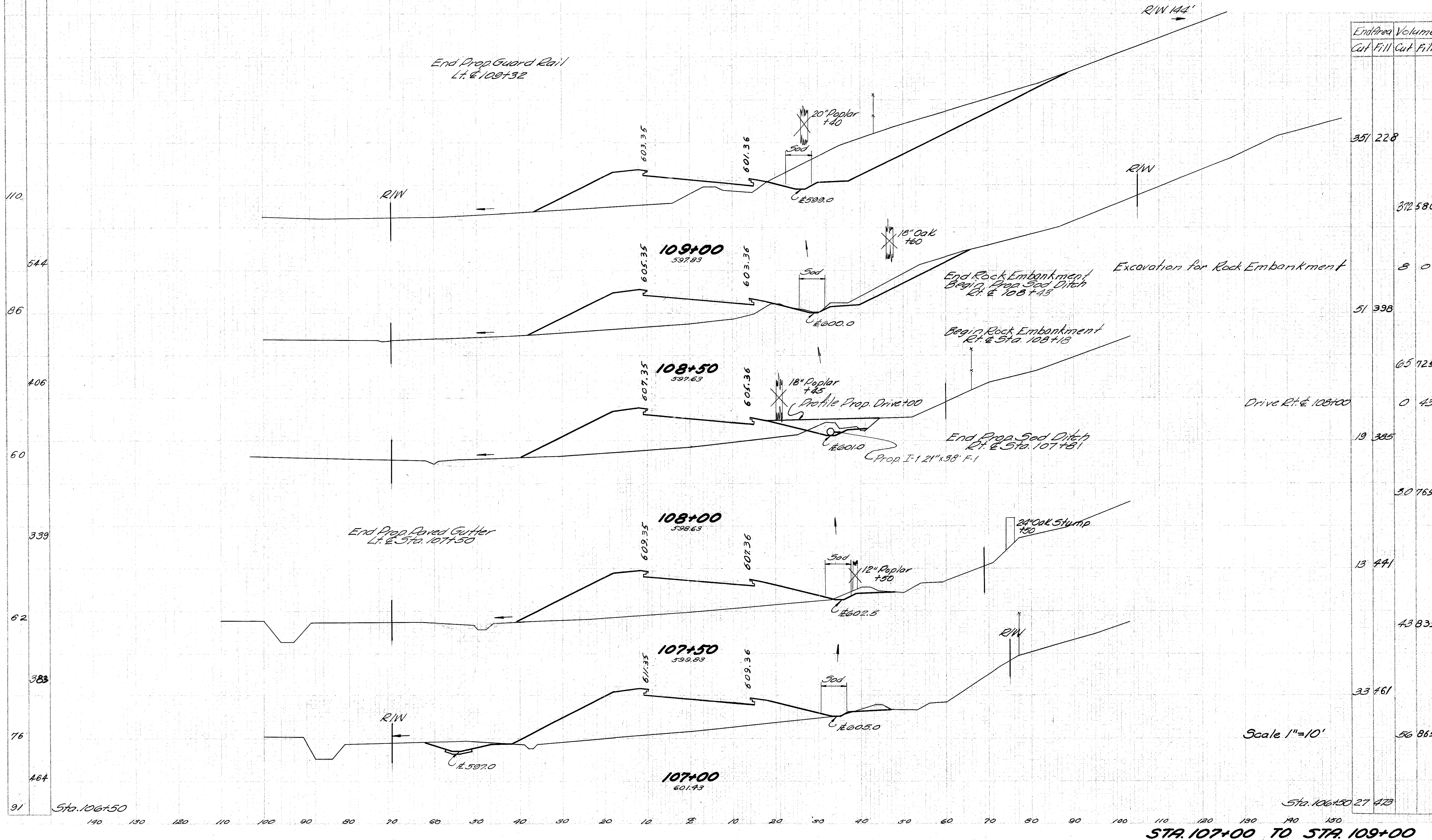
End Area		Volume	
Cut	Fill	Cut	Fill
1513	0		
		1456	0
1526	0		
		2429	0
1753	0		
		2781	0
1604	0		
		2400	0
1436	0		

End Area		Volume
Cut	Fill	Cut Fill
27	473	
		56 787
33	377	
		320 581
322	250	
		1305 306
1087	50	
		2280 74
1315	0	
		2614 0
1513	0	



Seeding
End Sta.
Width Yds.

LAWRENCE COUNTY
LAW-522-0.75

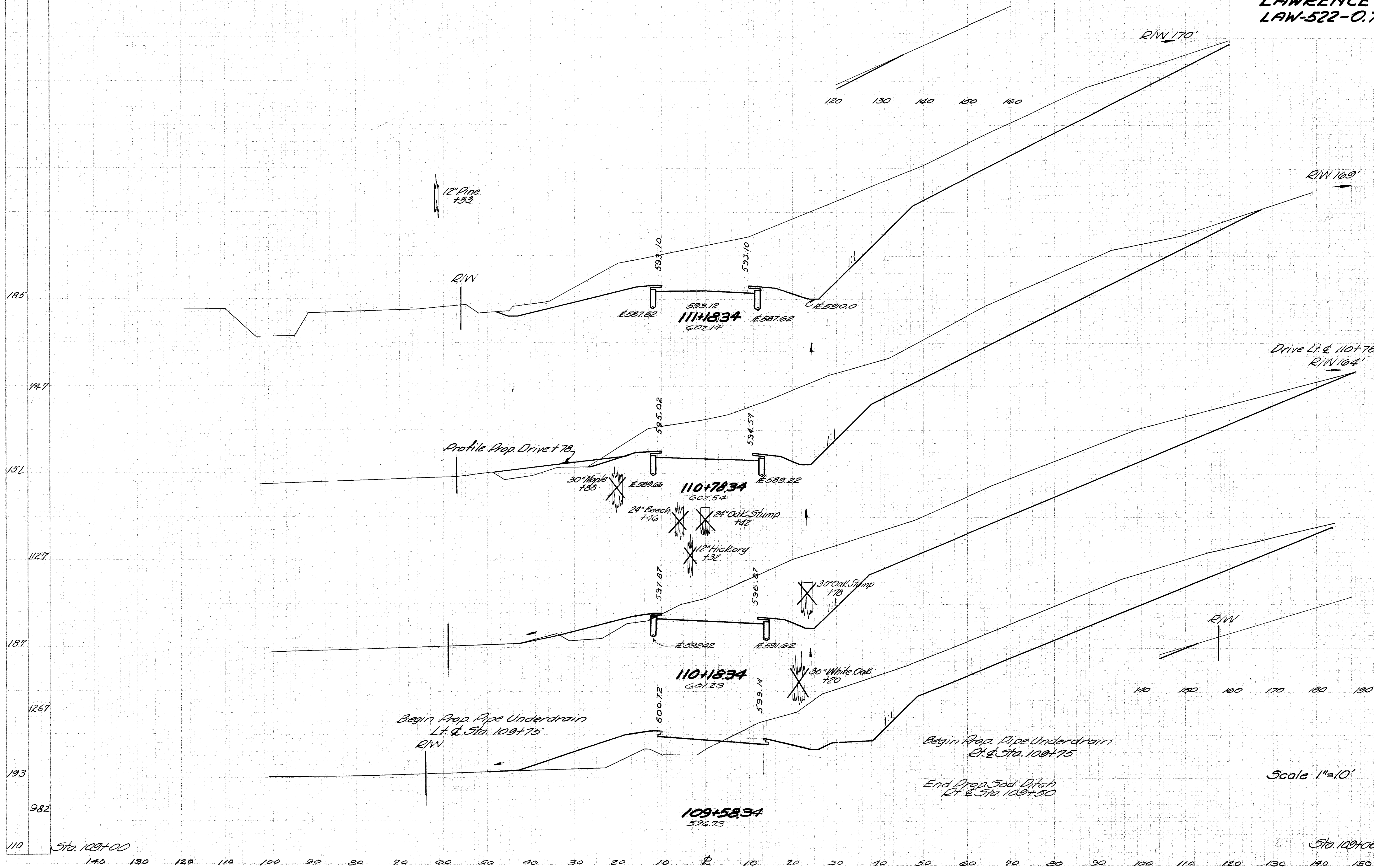


End Area		Volume	
Cut	Fill	Cut	Fill
351	228		
372	580		
8	0		
51	398		
65	725		
0	43		
19	385		
30	765		
13	441		
43	835		
33	461		
56	865		

Seeding	
End	59.
Width	Yds.

FBI HQ SEARCHED _____ INDEXED _____
 SERIALIZED _____ FILED _____
 MAR 1988
 FBI - MEMPHIS
 52
 88
 LAWRENCE COUNTY
 LAW-522-0.75

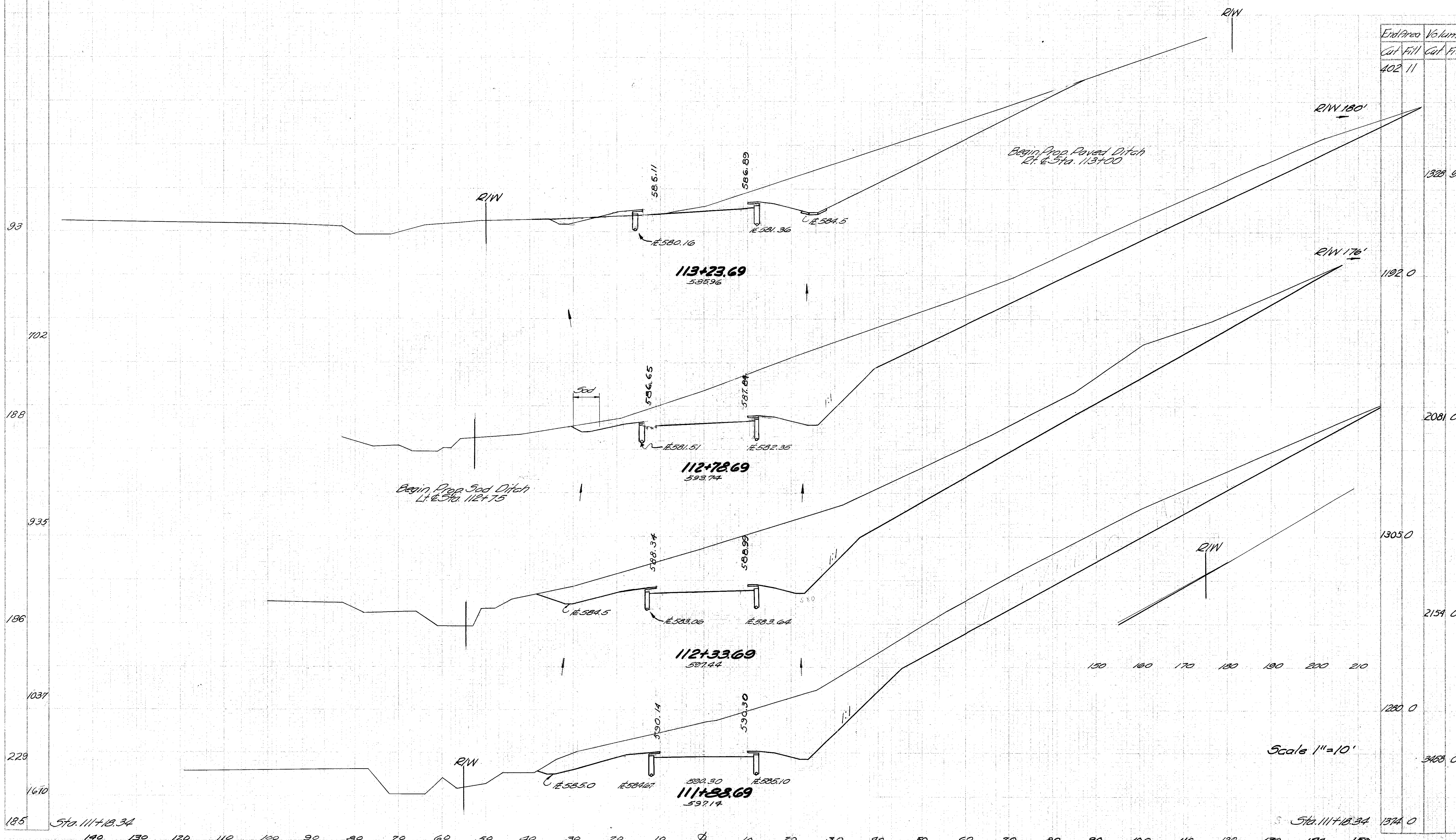
End Area		Volume	
Cut	Fill	Cut	Fill
1364	0		
		1938	0
		0	16
1252	0		
		2718	50
1194	45		
		2453	246
1014	177		
		1475	138
0	351	228	



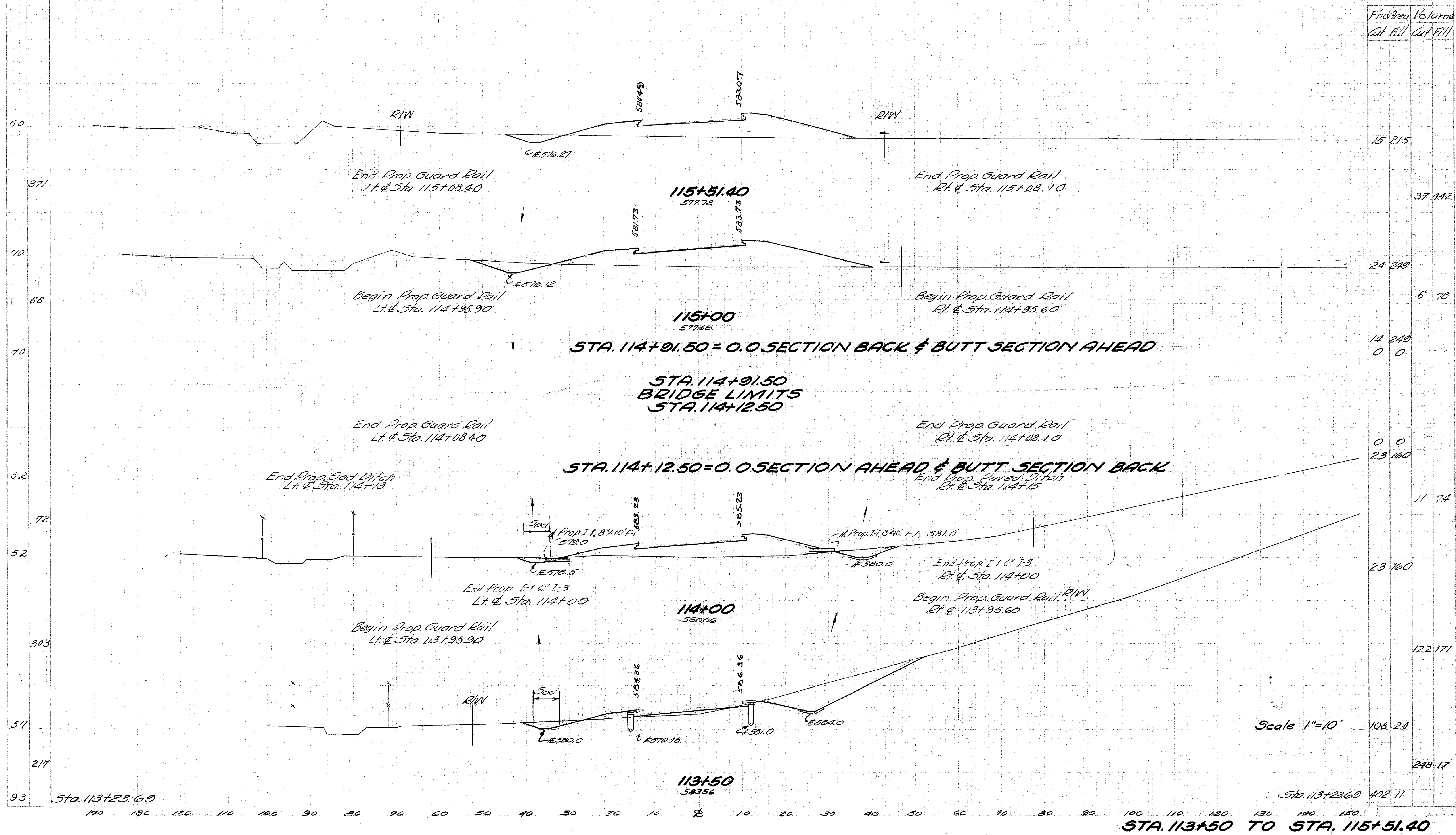
Seeding
End Sta.
Width Vol.

53
88

LAWRENCE COUNTY
LAW-522-0.75

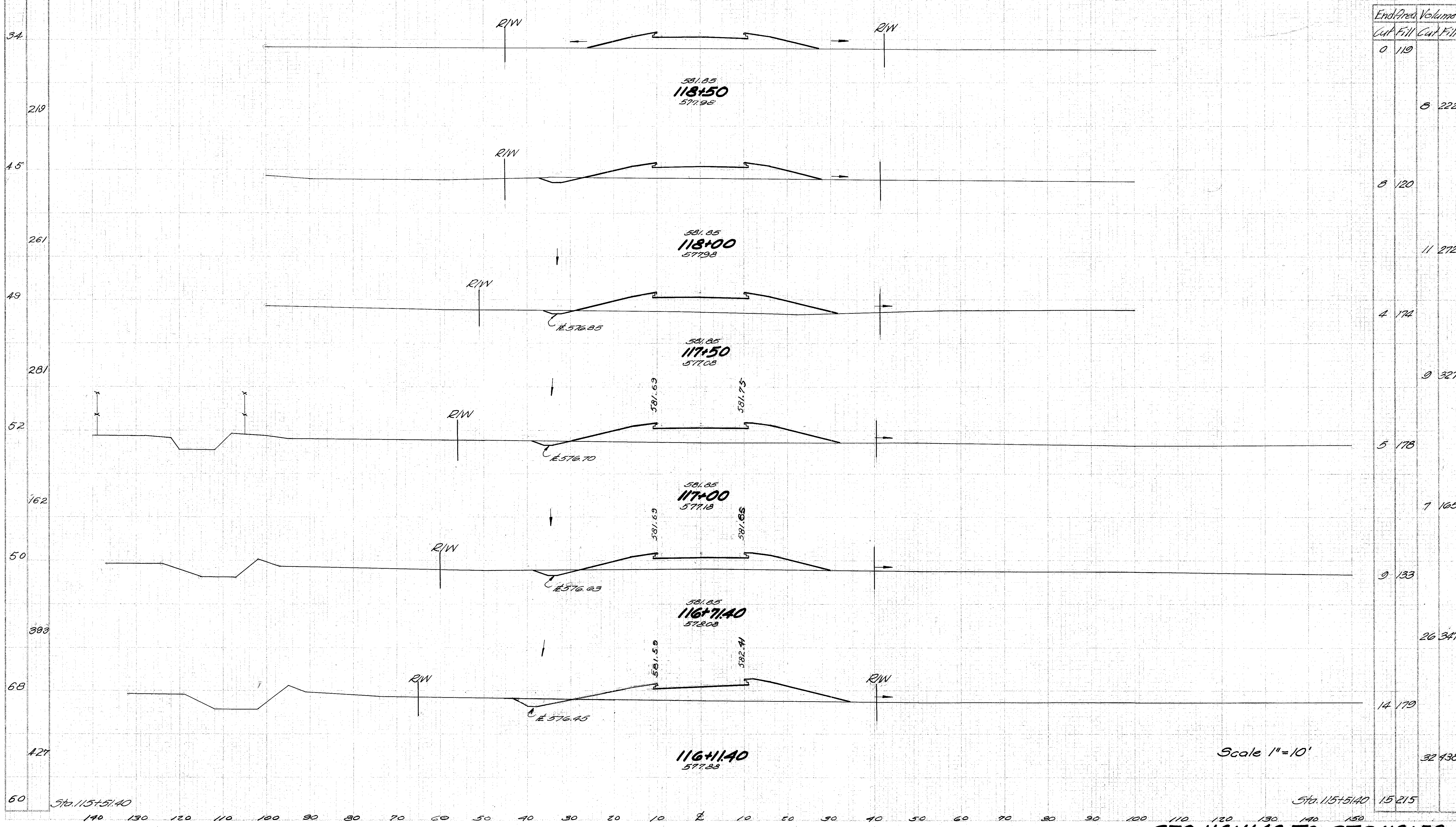


STA. 111+88.69 TO STA. 113+23.69



Feeding
End Sta.
Width Yds.

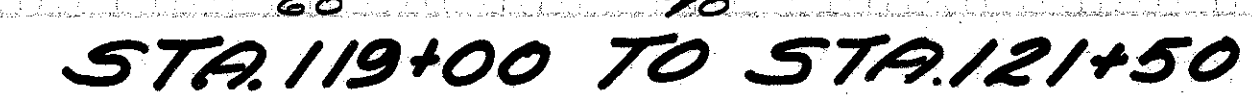
LAWRENCE COUNTY
LAW-522-0.75



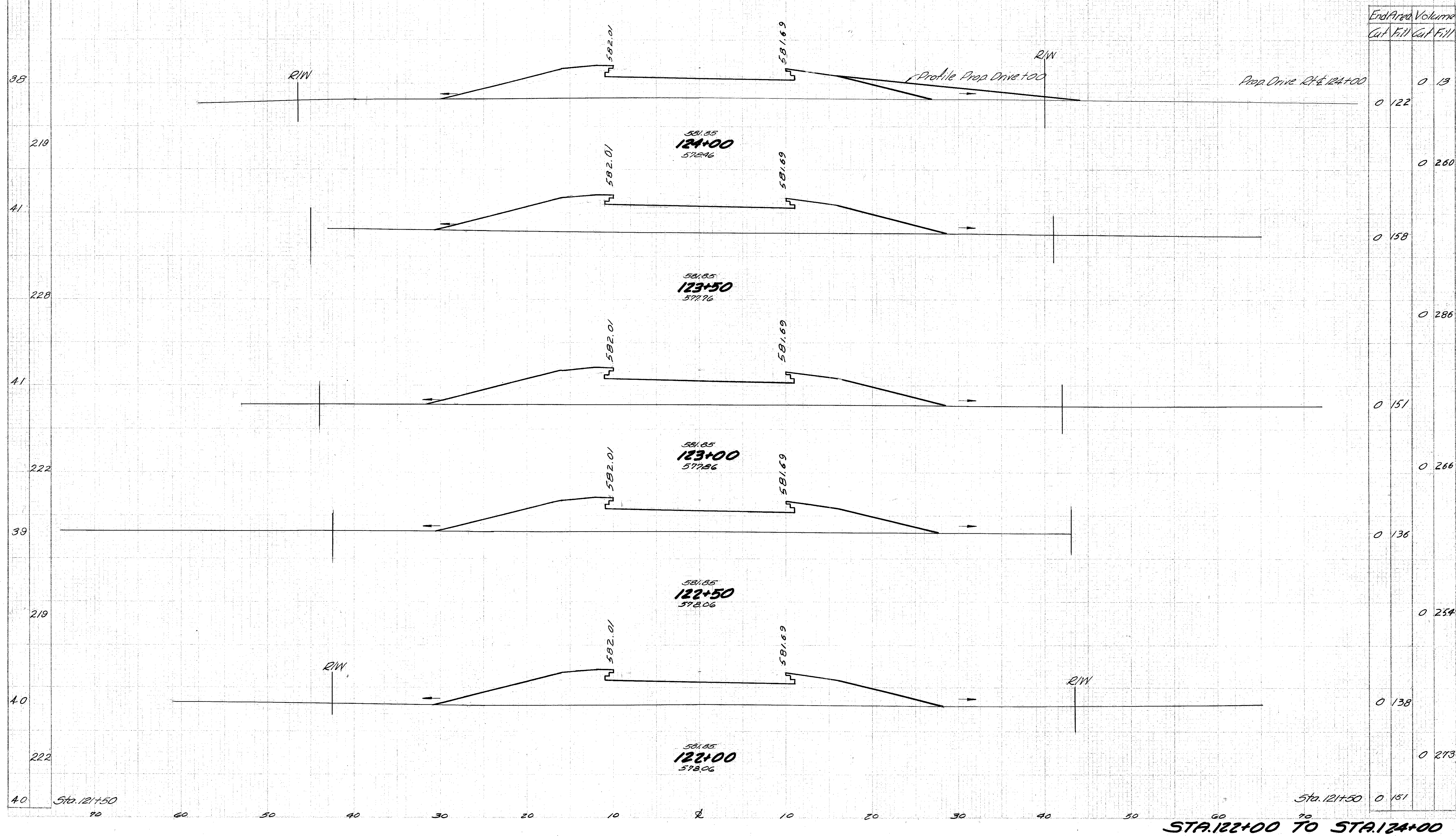
End Area		Volume	
Cut	Fill	Cut	Fill
0	119	8	222
8	120	11	272
4	174	9	327
5	178	7	165
9	133	26	347
14	170	32	438
15	215		

Scale 1"=10'

STA. 116+11.40 TO STA. 118+50



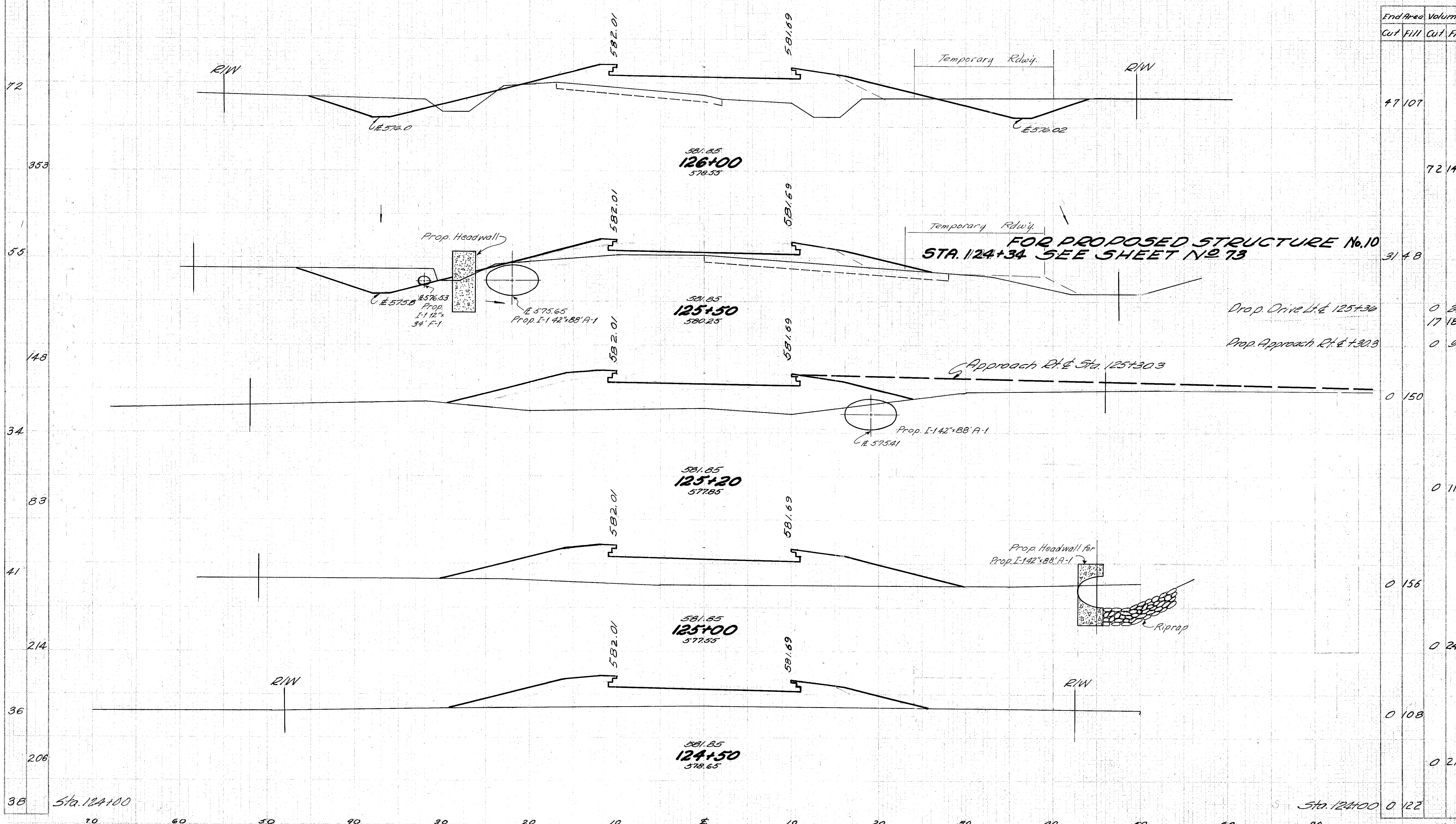
57
88



Seeding
End Sta.
Width Yds.

2 OHIO 5-700(B) 58
88

LAWRENCE COUNTY
LAW-522-0.75

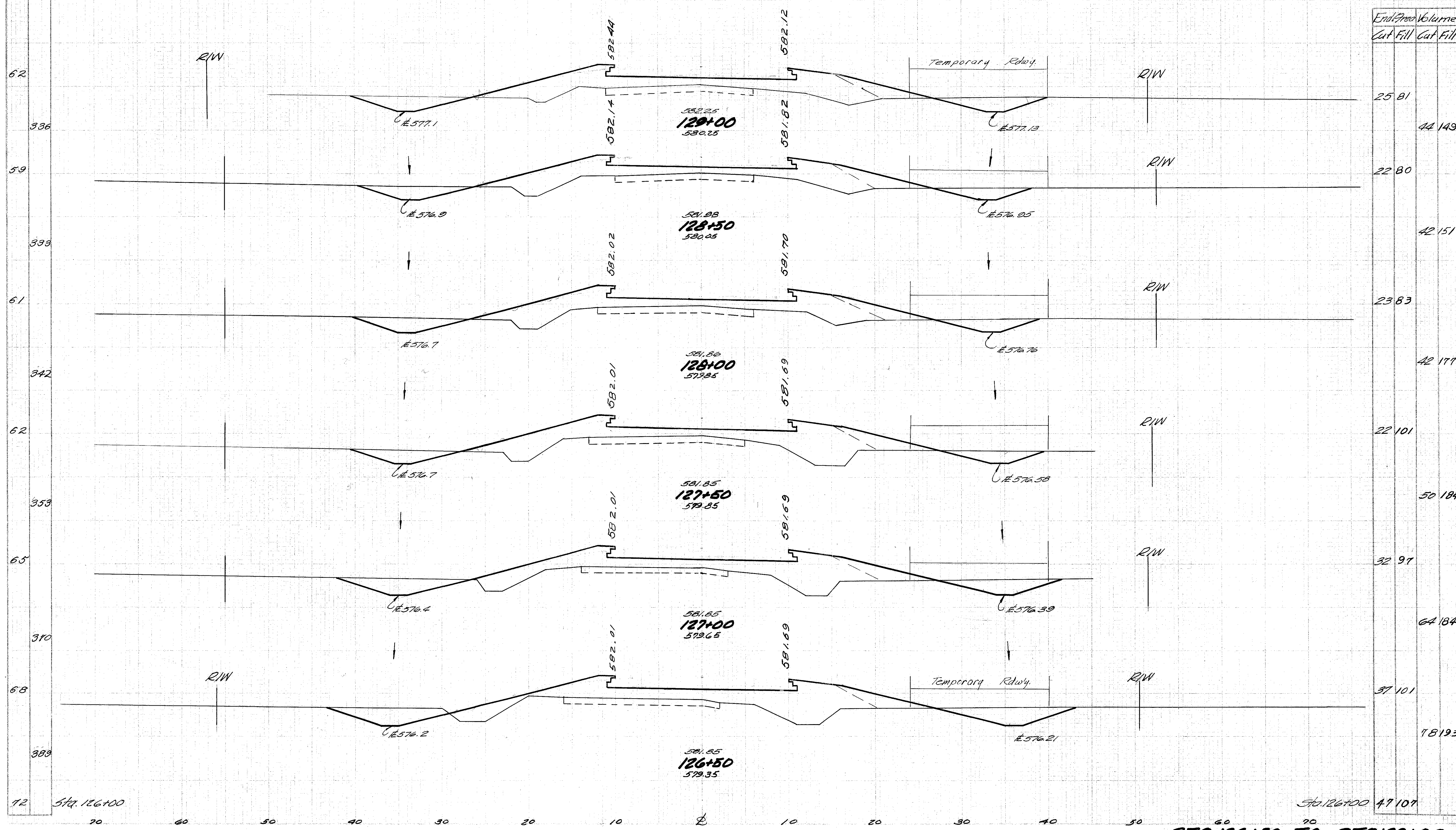


End Area		Volume	
Cut	Fill	Cut	Fill
47	107		
		72	144
31	48		
0	24		
17	184		
0	91		
0	150		
		0	113
0	156		
		0	245
0	108		
		0	213
0	122		

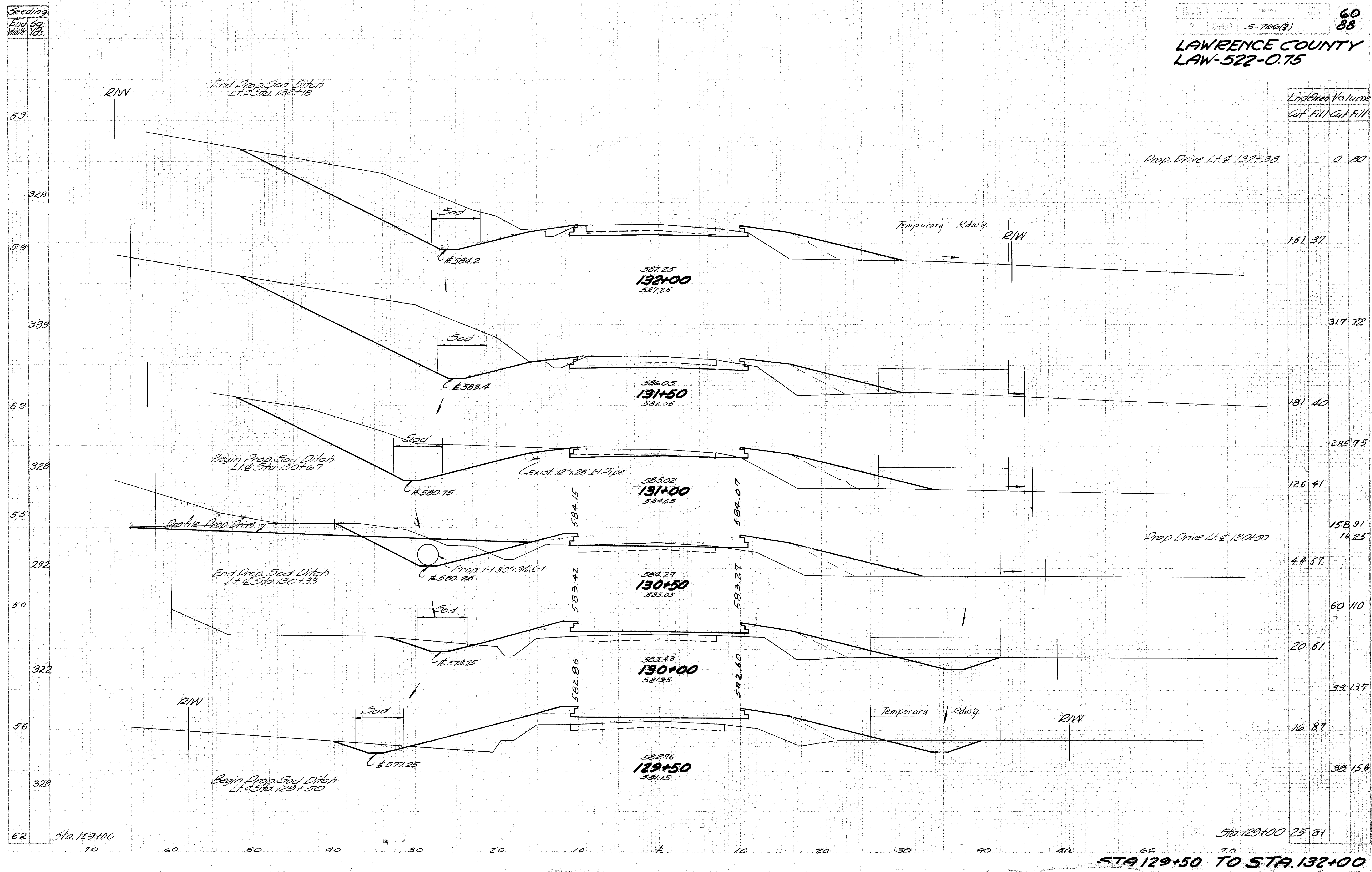
STA 124+50 TO STA 126+00

Seeding
Erod. 5g.
Moth 10g.

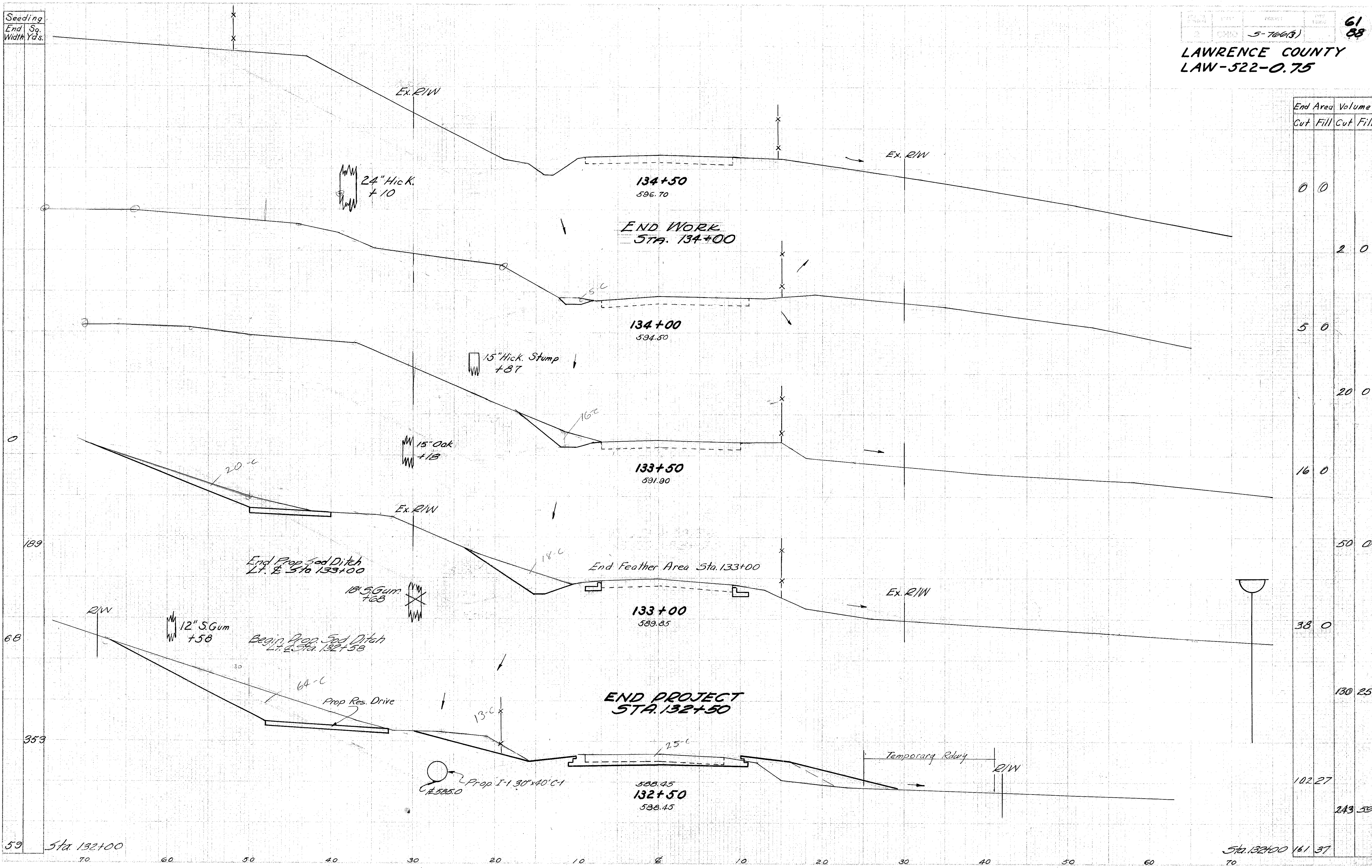
LAWRENCE COUNTY
LAW-522-0.75



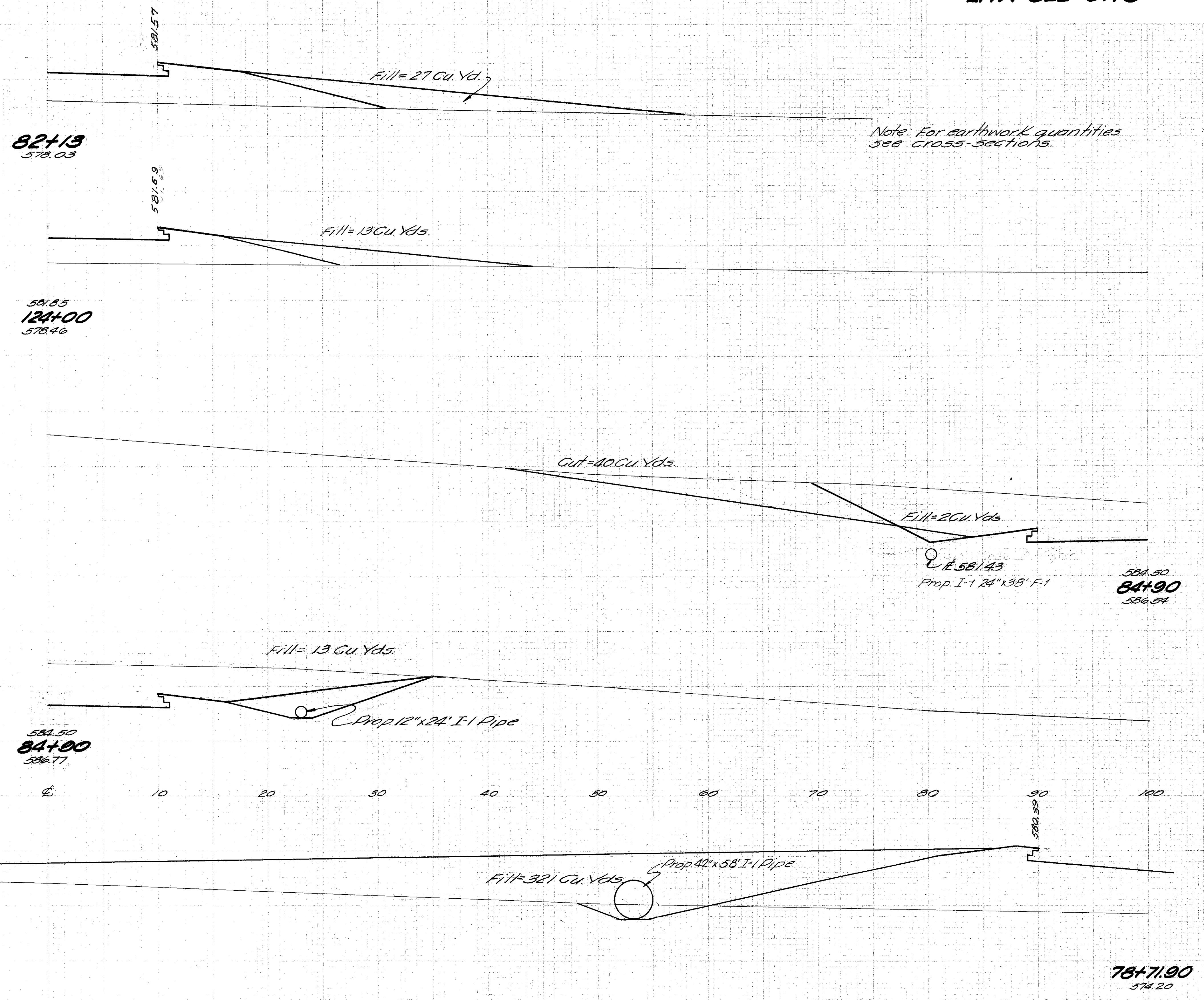
**LAWRENCE COUNTY
LAW-522-0.75**

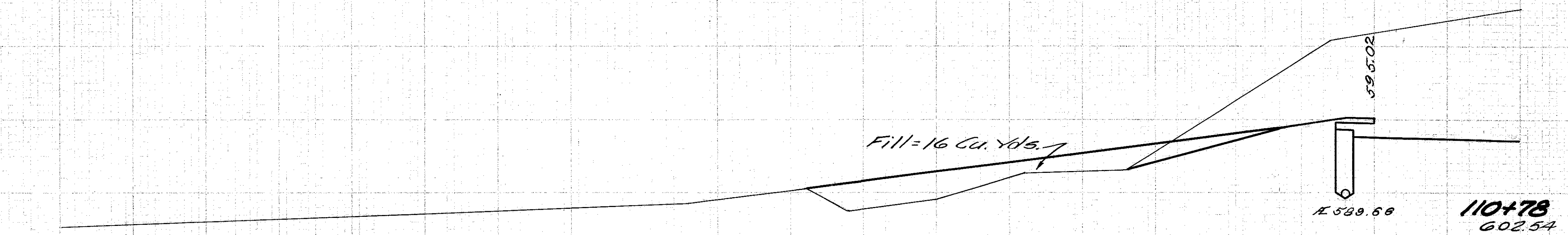


Seeding
End Sq.
Width Yds.

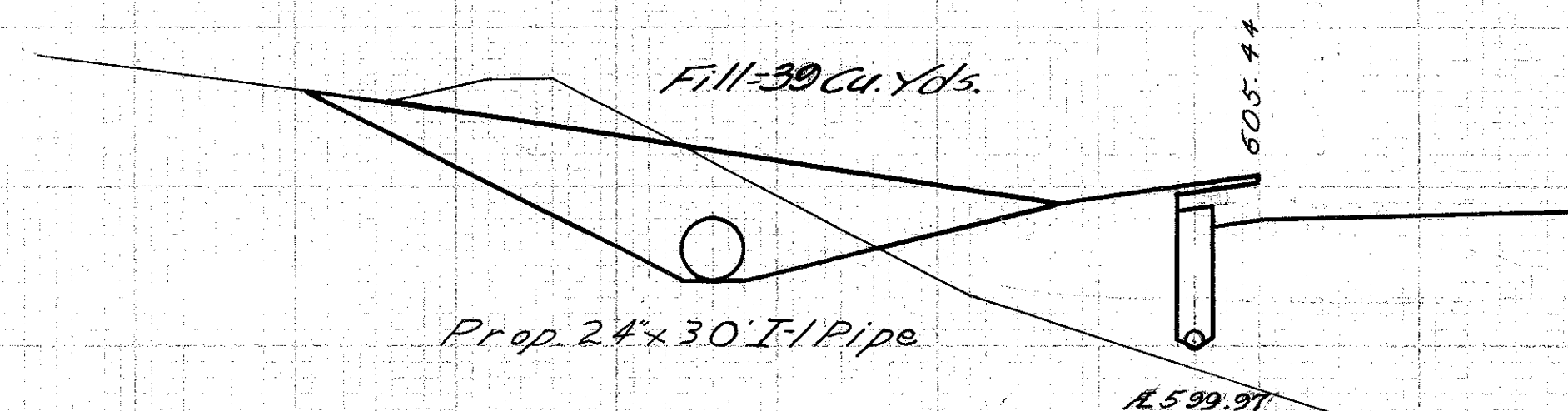
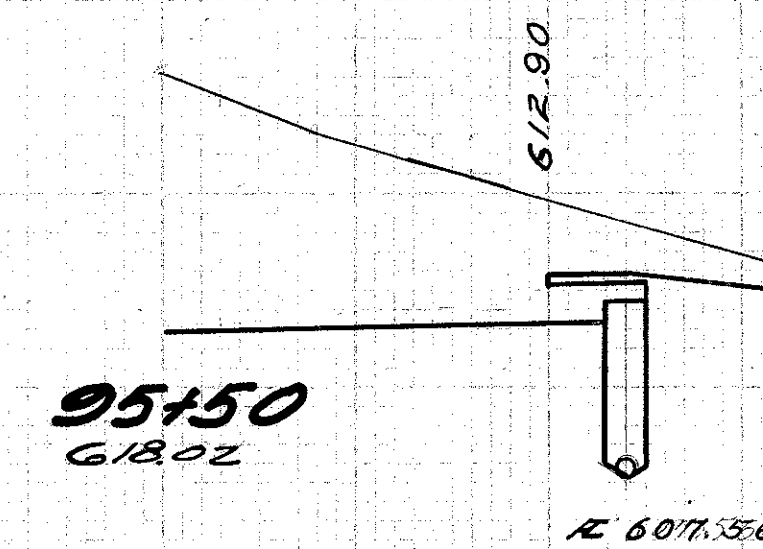
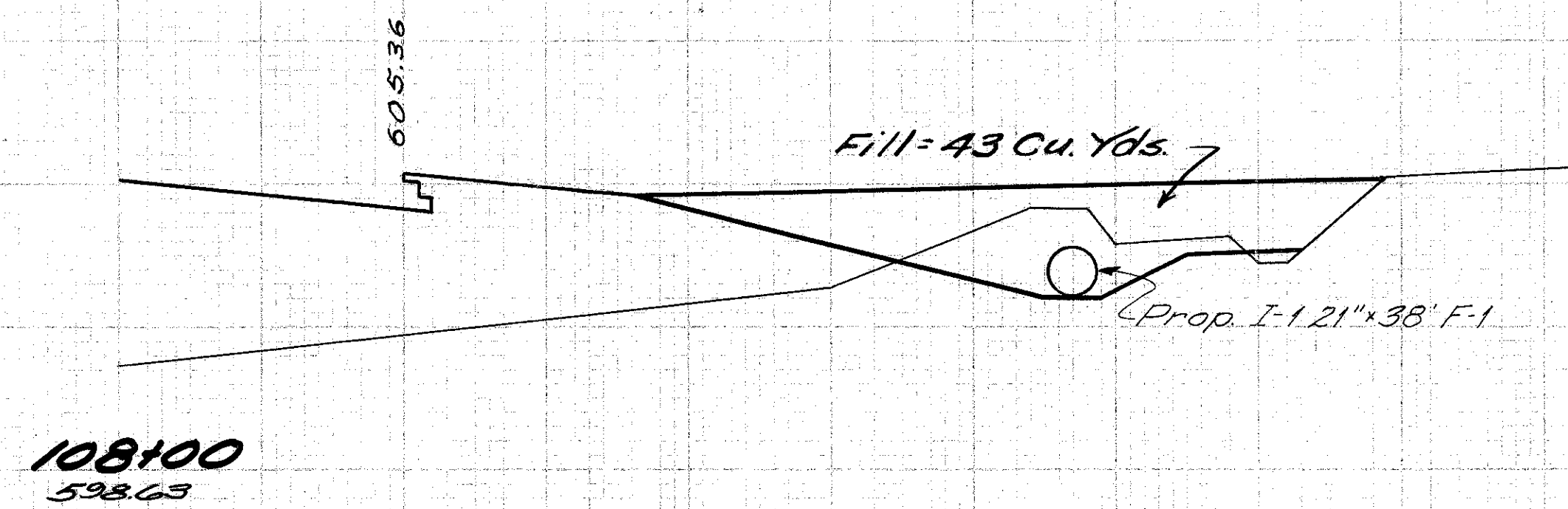


STA. 132+50 TO STA. 134+50





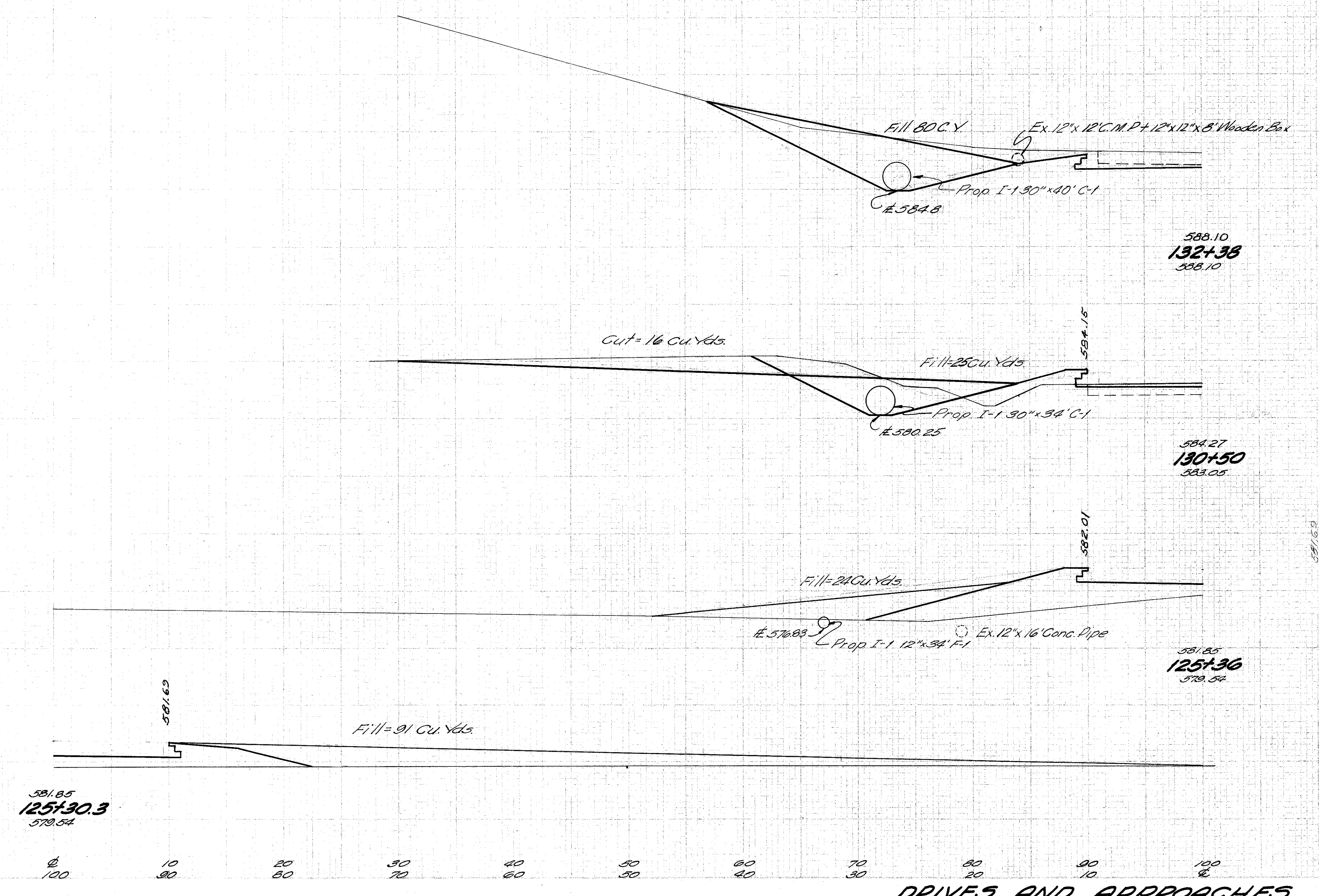
Note: For Earthwork Quantities
See Cross Sections

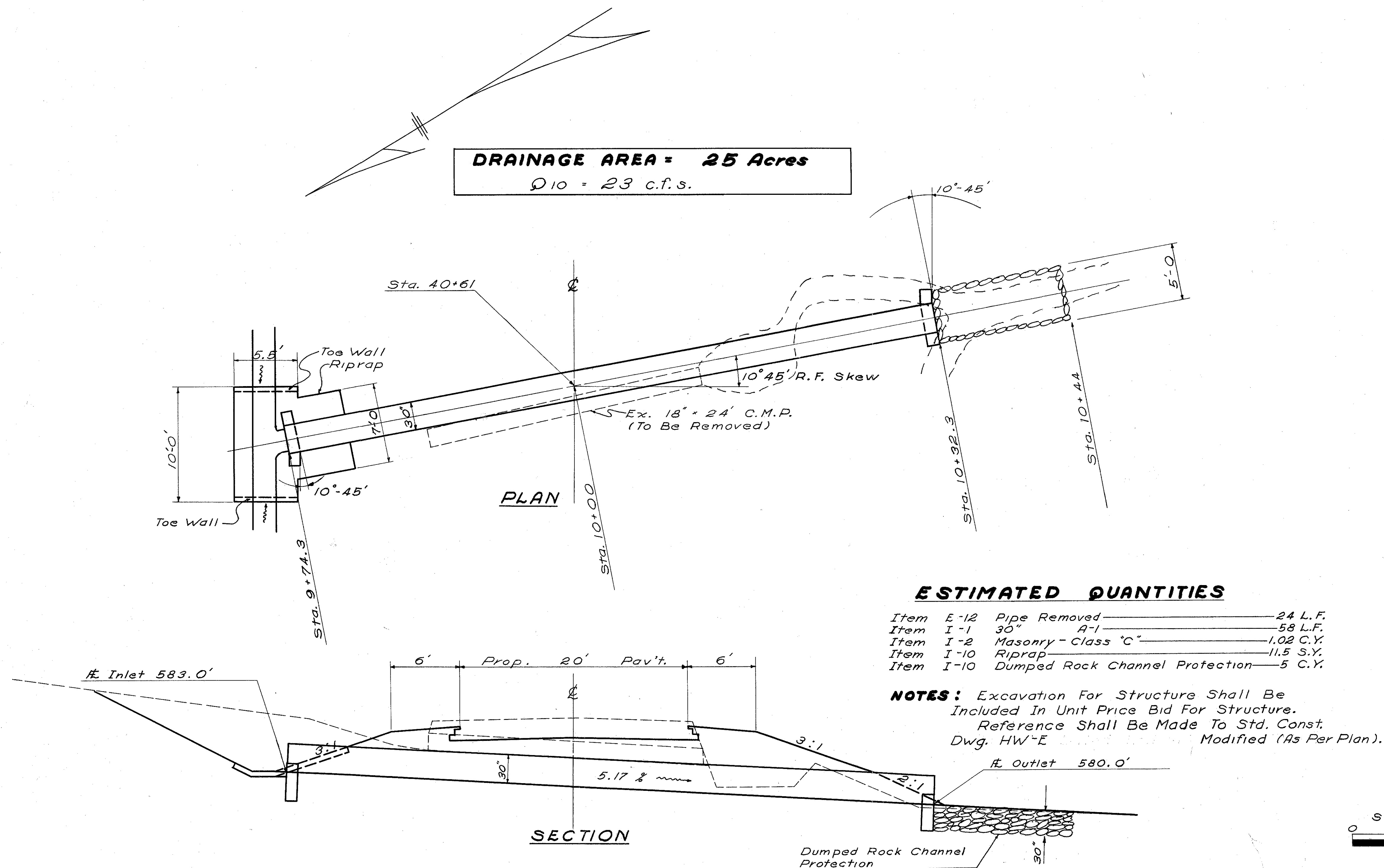


100 90 80 70 60 50 40 30 20 10

DRIVES

Note: For earthwork quantities
see cross-sections.





LAW-522-076

LAW 522
PROP. I-1

STA. 40+61
A-1

1

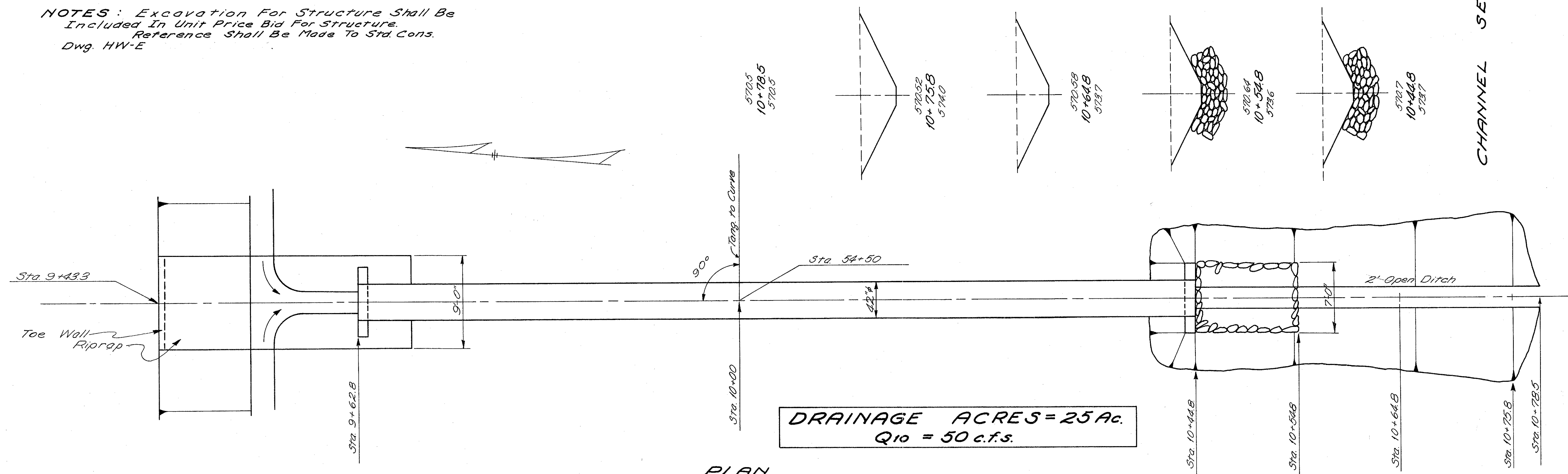
ESTIMATED QUANTITIES

Item	E-3	Channel Excavation	34	C.Y.
Item	I-1	42" # A-1	82	L.F.
Item	I-10	Riprap	28	C.Y.
Item	I-10	Dumped Rock Channel Protection	7	C.Y.
Item	I-2	Masonry Class "C"	1.52	C.Y.

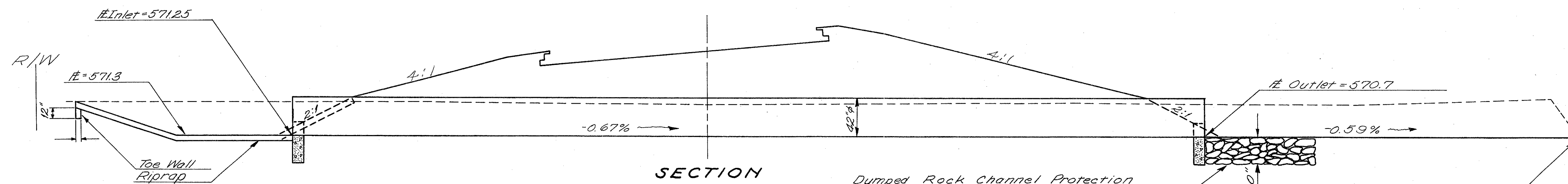
NOTES: Excavation For Structure Shall Be Included In Unit Price Bid For Structure.
Reference Shall Be Made To Std. Cons.
Dwg. HW-E

END VOLUME	AREA CUT	CUT
0.0	33	27
2	12	10
10	27	25

CHANNEL SECTIONS



DRAINAGE ACRES = 25 Ac.
Q₁₀ = 50 c.f.s.

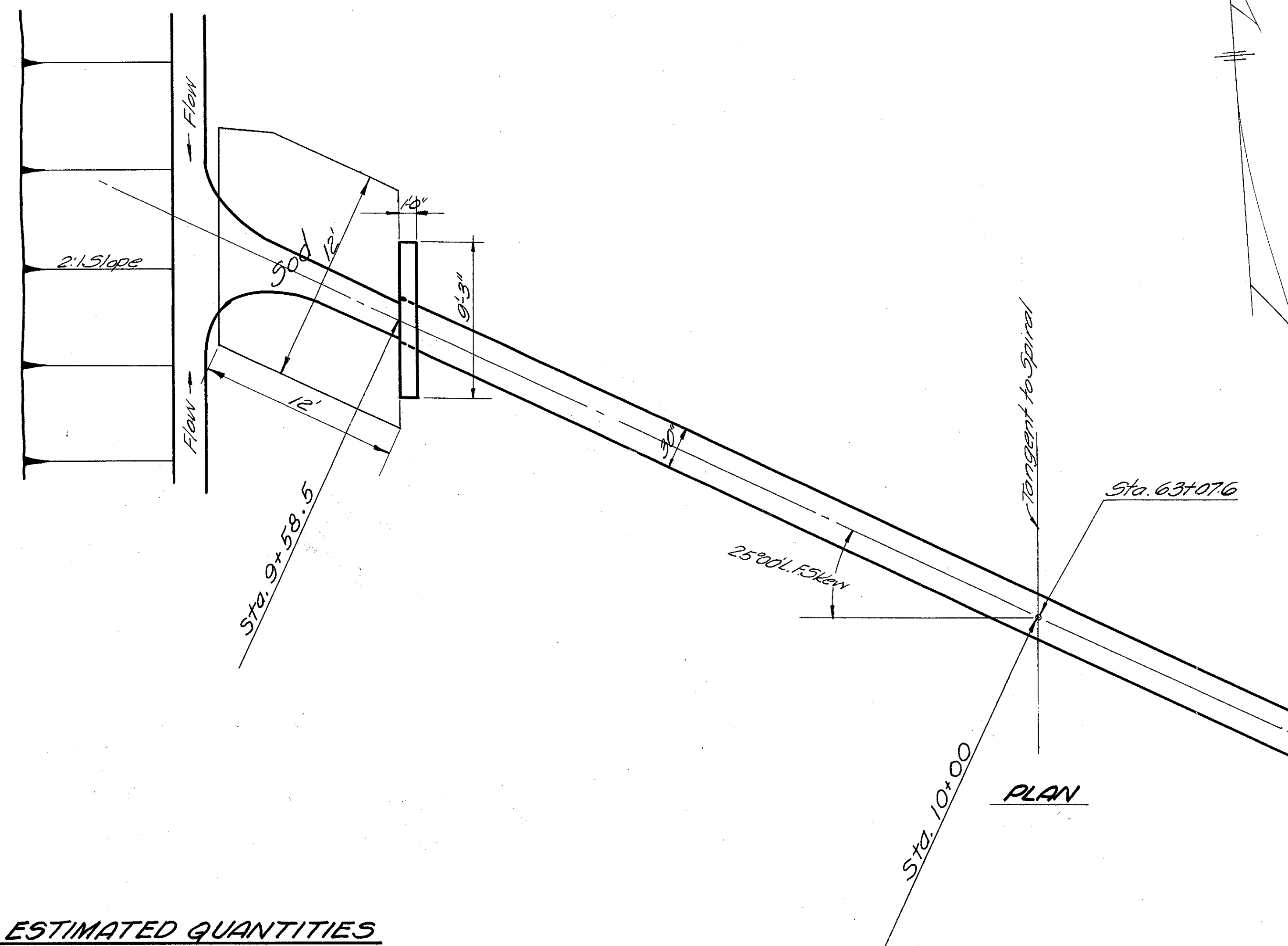


SCALE
0' 5' 10'

Datum Line = 560.0

LAW-522-103

LAW-522-0.75 STA. 54+50
PROP. I-1 A-1



DRAINAGE AREA = 9 Acres
 $Q_{10} = 30 cfs$

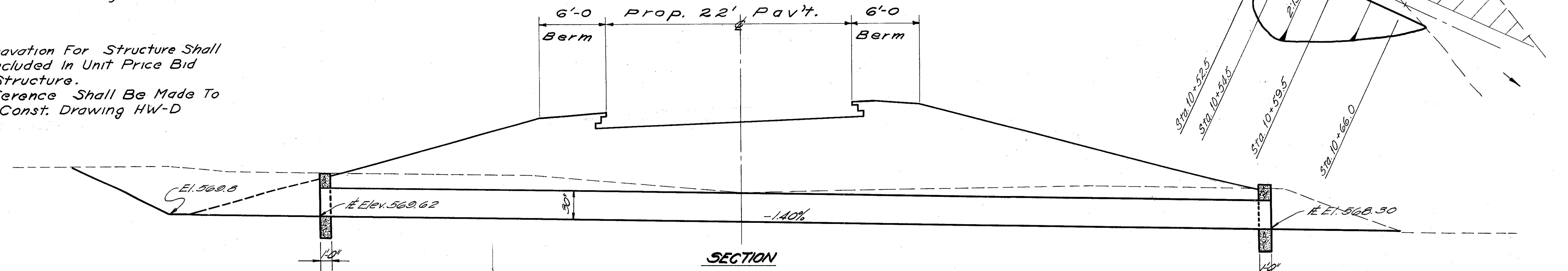
CUT	
End Area	Vol-ume
568.0 10+66 568.0	0.0
568.14 10+59.5 569.9	13
568.26 10+54.5 571.6	24
568.30 10+52.5	0.0

CHANNEL SECTIONS
SCALE
0' 10' 20'

ESTIMATED QUANTITIES

Item E-3 Channel Excavation ——— 7-C.Y.
Item I-2 Masonry ——— Class "C" ——— 38-C.Y.
Item I-1 30" ——— A-1 ——— 94-L.F.
Item L-10 Sodding ——— 16-S.Y.

NOTES: Excavation For Structure Shall Be Included In Unit Price Bid For Structure.
Reference Shall Be Made To Std. Const. Drawing HW-D



Datum Line = 560.0'

SCALE
0 5 10

LAW-522-119

LAW 522
PROP I-1

STA. 63+07.6
A-1

CUT	
Sta	Vol.
574.7	0.0
11+25.7	4
574.7	
574.85	9
11+00.8	8
575.2	
574.99	9
10+75.8	17
575.6	
575.19	13
10+42.6	9
576.0	
575.50	14
10+24.5	
577.20	

CHANNEL SECTIONS

SCALE
0' 5' 10'

STEEL CODE

- ① 1/2" ϕ x 3'-6" (4)
- ② 1/2" ϕ x 6'-0" (4)
- ③ 1/2" ϕ x 13'-6" (2)

Note: All steel to be straight bars at length shown to be bent in field to fit.

ESTIMATED QUANTITIES

Item I-2 Concrete Masonry — Class "C" — 59 C.Y.

Item I-1 42" A-1 ————— 50 L.F.

Item E-3 Channel Excavation ————— 40 C.Y.

Item S-24 Removal of Existing Structure — Lump

Item I-10 Dumped Rock Channel Protection — 12 C.Y.

NOTE: Excavation For Structure Shall Be Included In Unit Price Bid For Structure.

DRAINAGE AREA-25A
Q₁₀ = 60 c.f.s.

PLAN

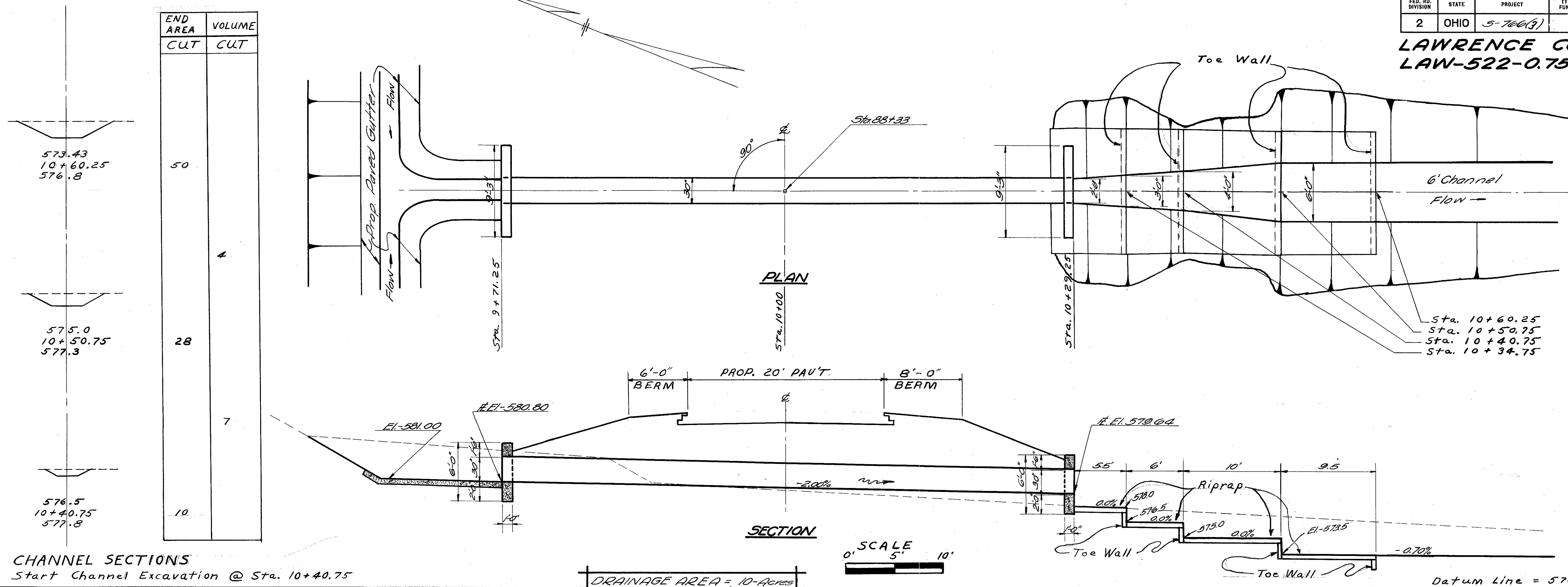
SECTION

SCALE
0' 5' 10'

LAW-522-156

LAW 522
PROP. I-1

STA. 82+57
A-1



CHANNEL SECTIONS
Start Channel Excavation @ Sta. 10+40.75

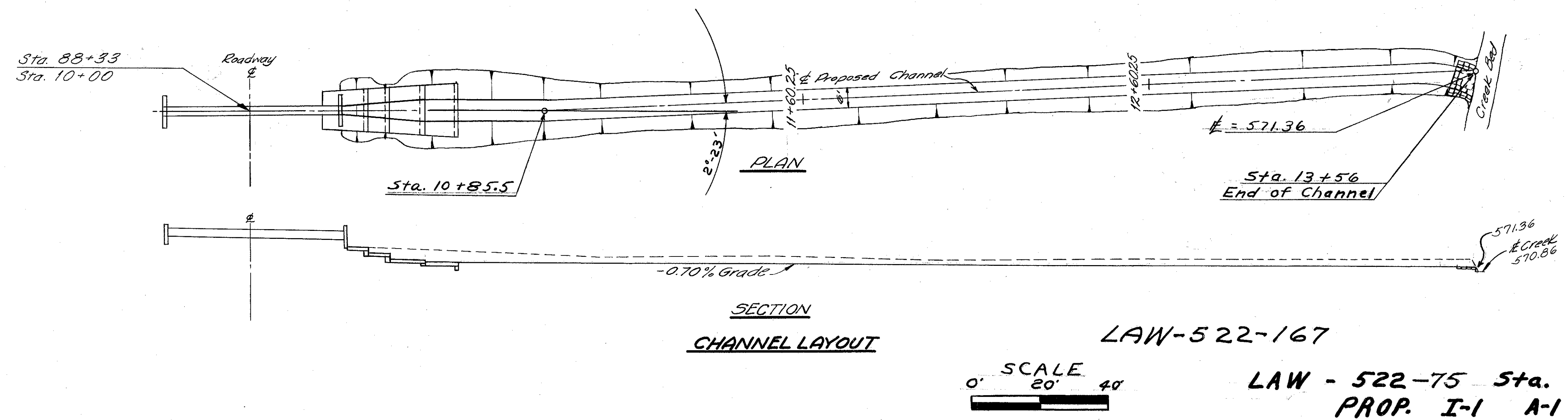
DRAINAGE AREA = 10-Acres
Q₁₀ = 35 c.f.s.

NOTES: Excavation For Structure Shall Be Included In Unit Price Bid For Structure.
Reference Shall Be Made to Std. Cons.
Drawing HW-D

ESTIMATED QUANTITIES

Item E-3 Channel Excavation	309 -CY
Item I-10 Riprap	60-SY
Item I-2 Concrete Masonry - Class "C"	38-CY
Item I-1 30" A-1	58-LF

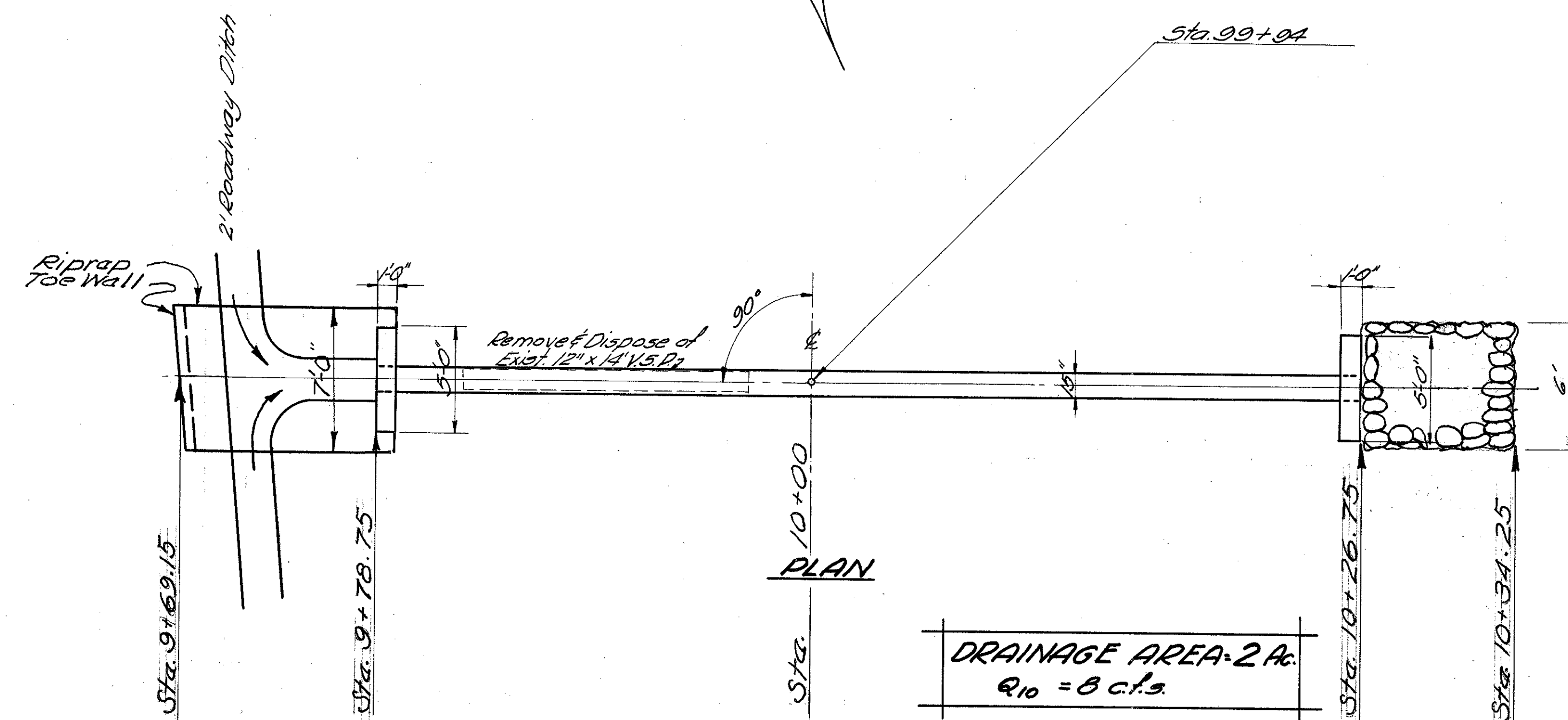
End Ch. Excavation Sta. 13+56
571.36
573.56



LAW-522-167

LAW - 522-75 Sta. 88+33
PROP. I-1 A-1

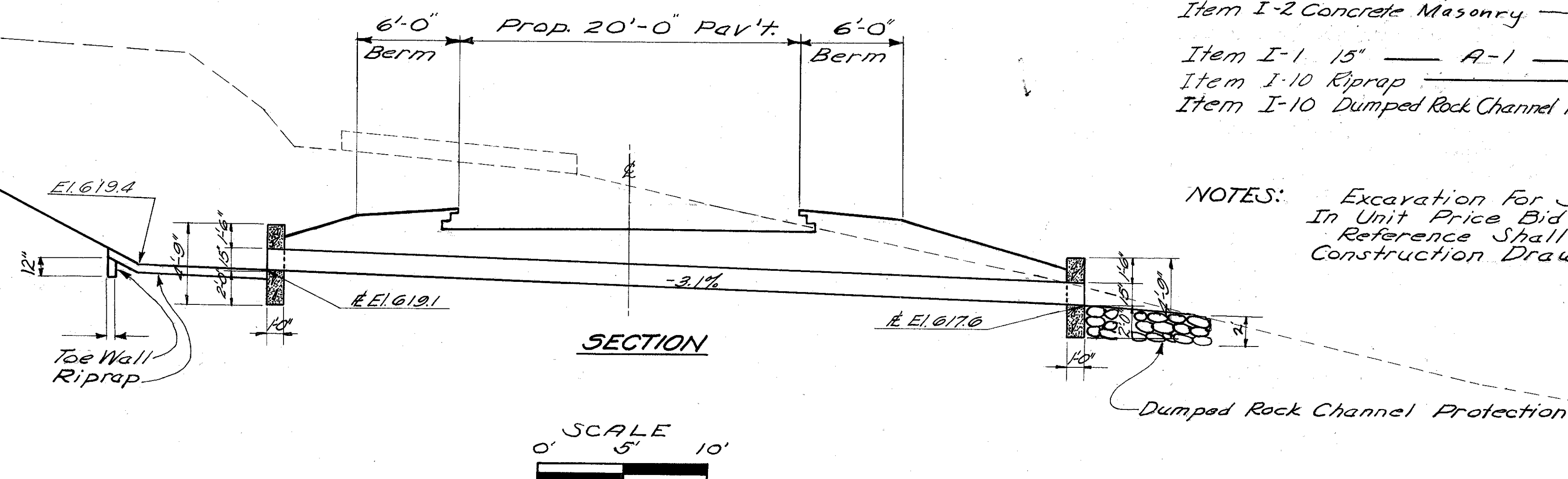
END AREA	VOLUME
CUT	CUT
28	100
28	55
27	143
50	



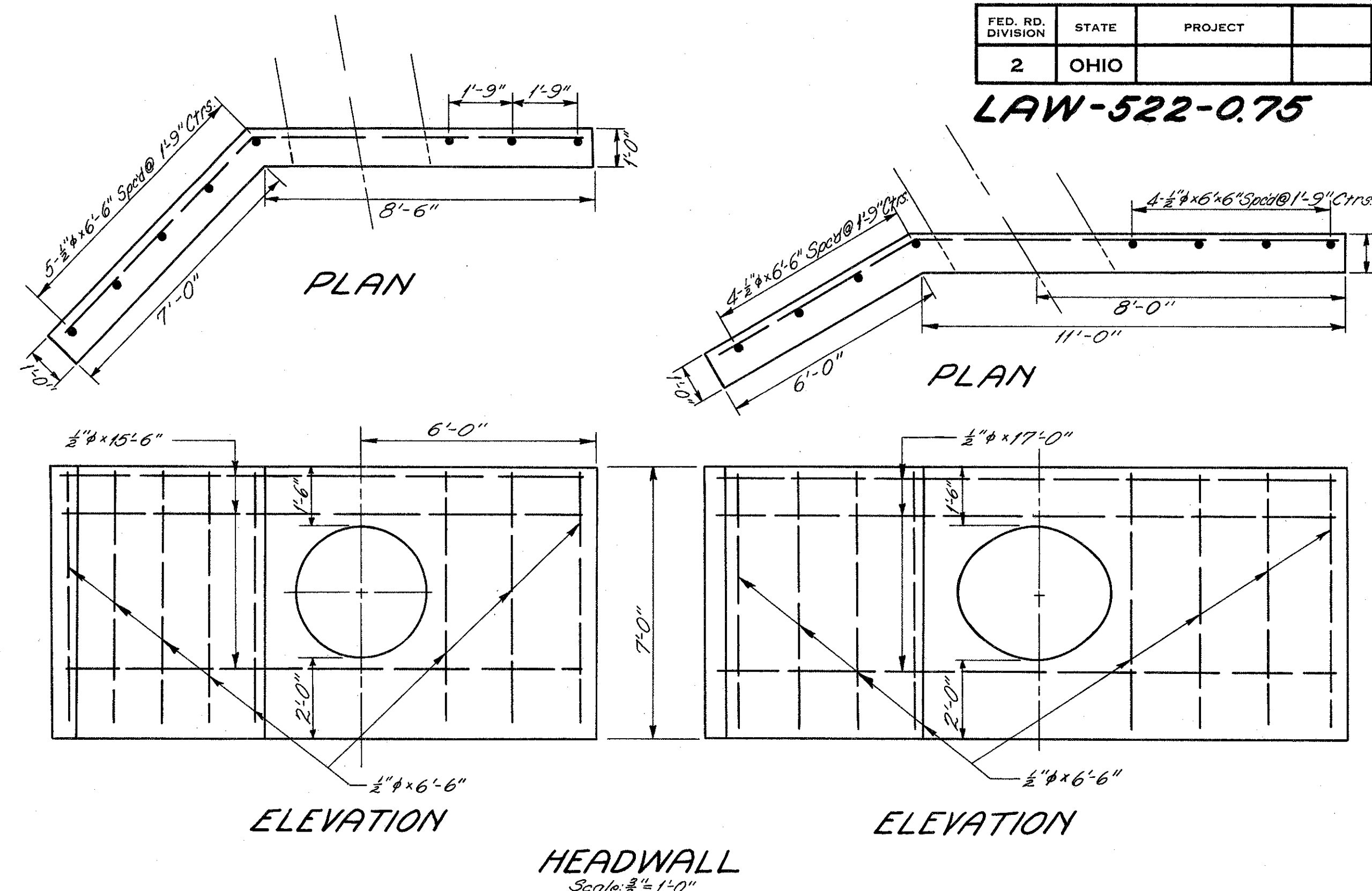
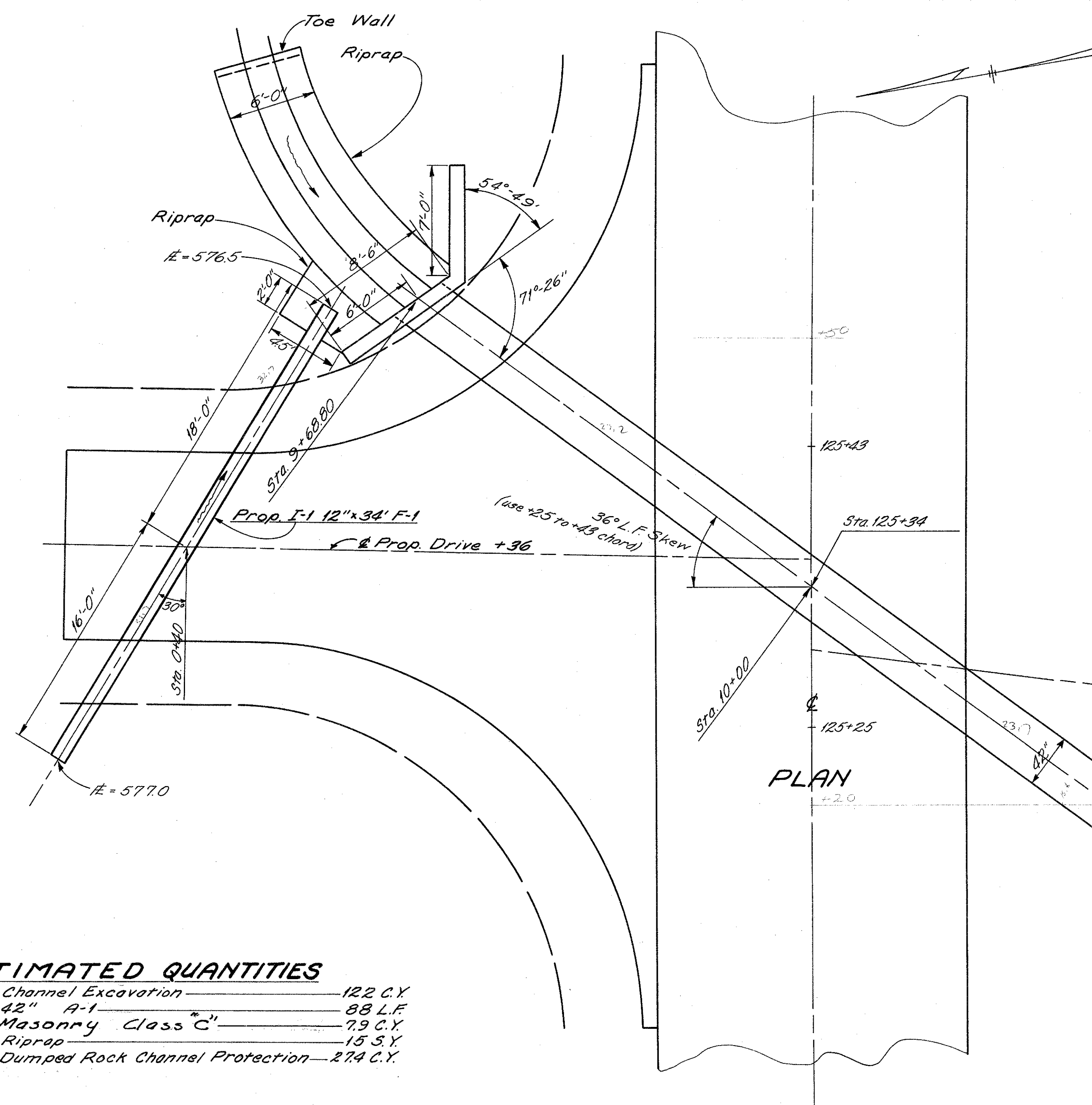
ESTIMATED QUANTITIES

- Item E-12 Remove & Dispose of 12" V.S.P. — 14-L.F.
 Item I-2 Concrete Masonry — Class "C" — 1.7-CY.
 Item I-1 15" — A-1 — 48-L.F.
 Item I-10 Riprap — 8.32 S.Y.
 Item I-10 Dumped Rock Channel Protection — 3.33 C.Y.

NOTES: Excavation for Structure Shall Be Included
 In Unit Price Bid for Structure.
 Reference Shall Be Made To Standard
 Construction Drawing HW-D



LAW-522-0.75

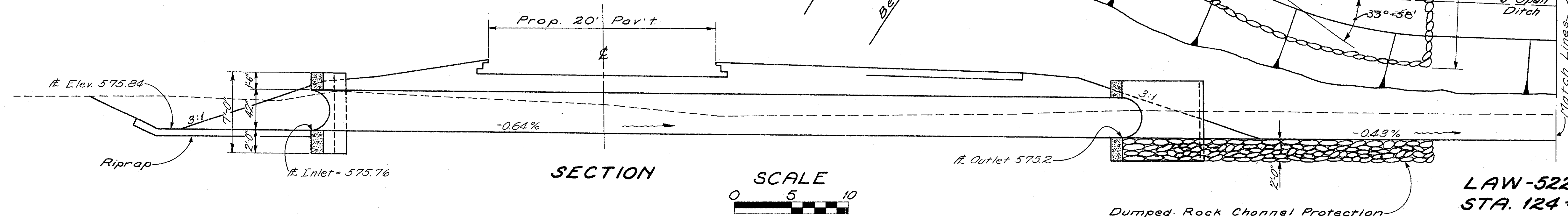


ESTIMATED QUANTITIES

Item E-3 Channel Excavation	122 C.Y.
Item I-1 42" A-1	88 L.F.
Item I-2 Masonry Class "C"	7.9 C.Y.
Item I-10 Riprap	15 S.Y.
Item I-10 Dumped Rock Channel Protection	274 C.Y.

NOTES: Excavation For Structure Shall Be Included In Unit Price Bid For Structure.
Reference Shall Be Made To Std. Cons. Modified (as per plan).
Dwg. HW-D See Sheet No 74 For Channel Sections.

DRAINAGE AREA = 13 Ac.
Q 10 = 40 c.f.s.



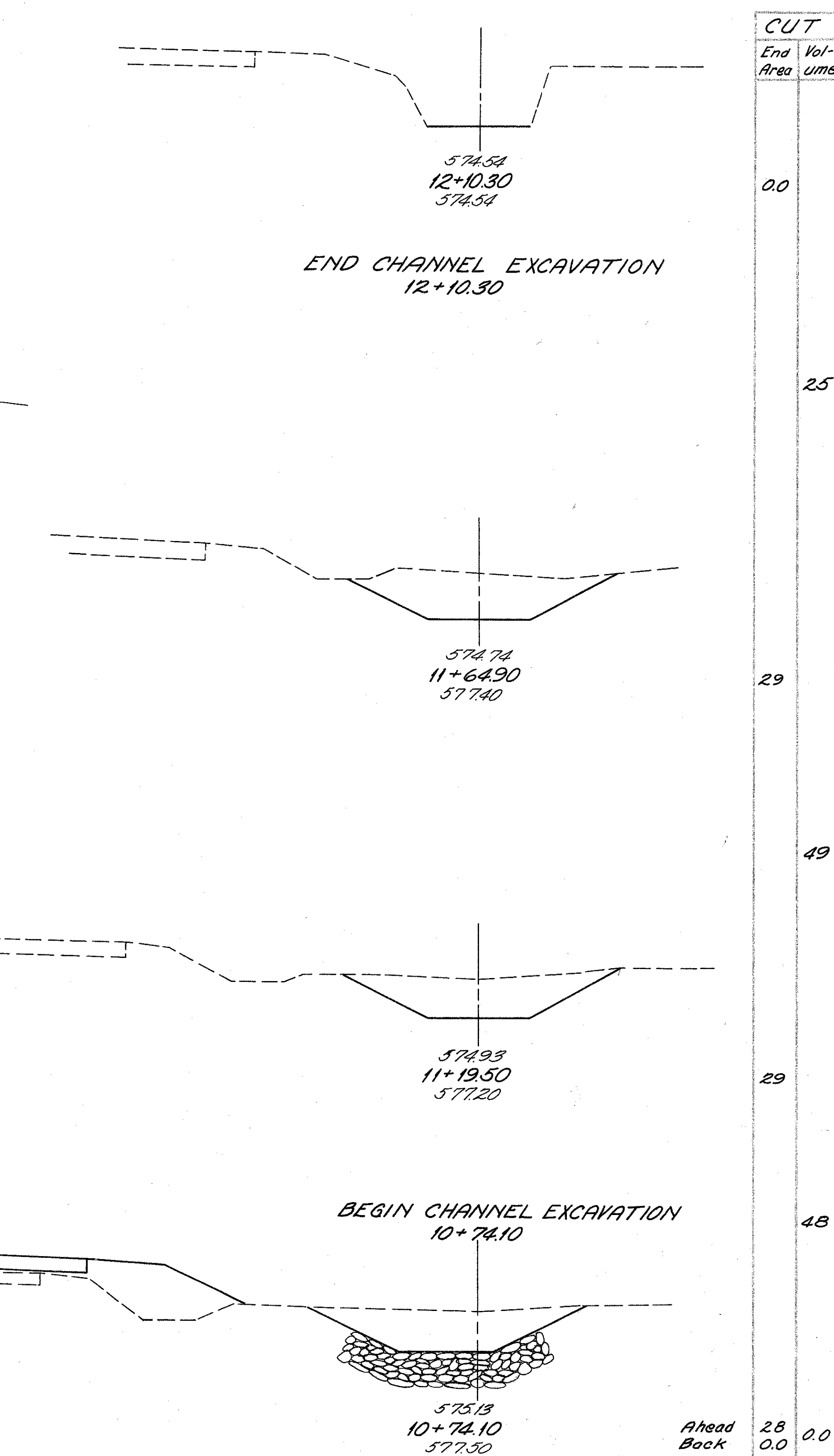
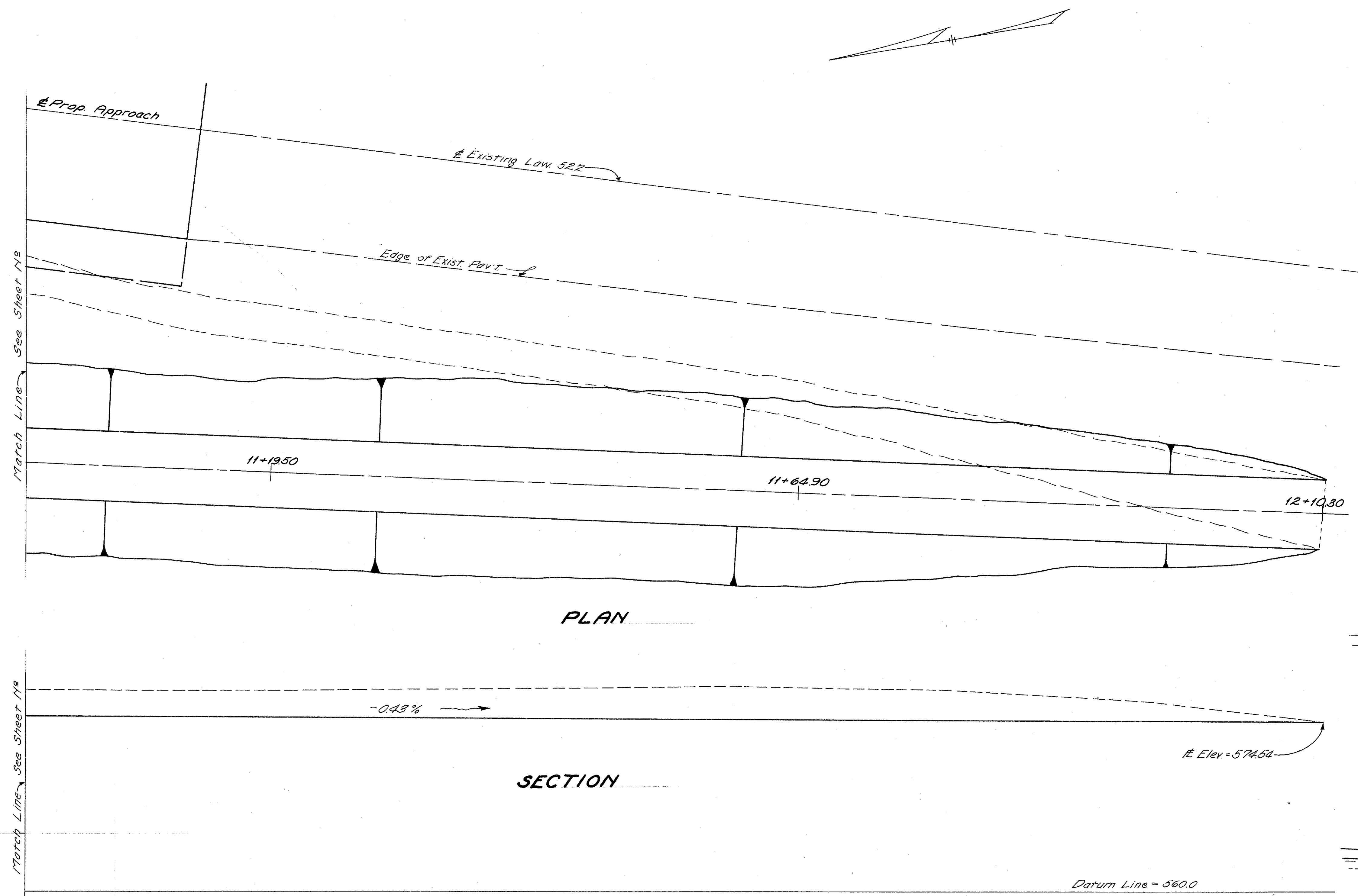
SCALE
0 5 10
FEET

LAW-522-235

LAW-522-0.75
STA. 124+34
PROP. I-1 A-1

Datum Line = 565.0

LAW-522-0.75



LAW-522-235

LAW-522-0.75
CHANNEL SECTIONS
FOR STRUCTURE @
STA. 125+34

LAW-522-0.75

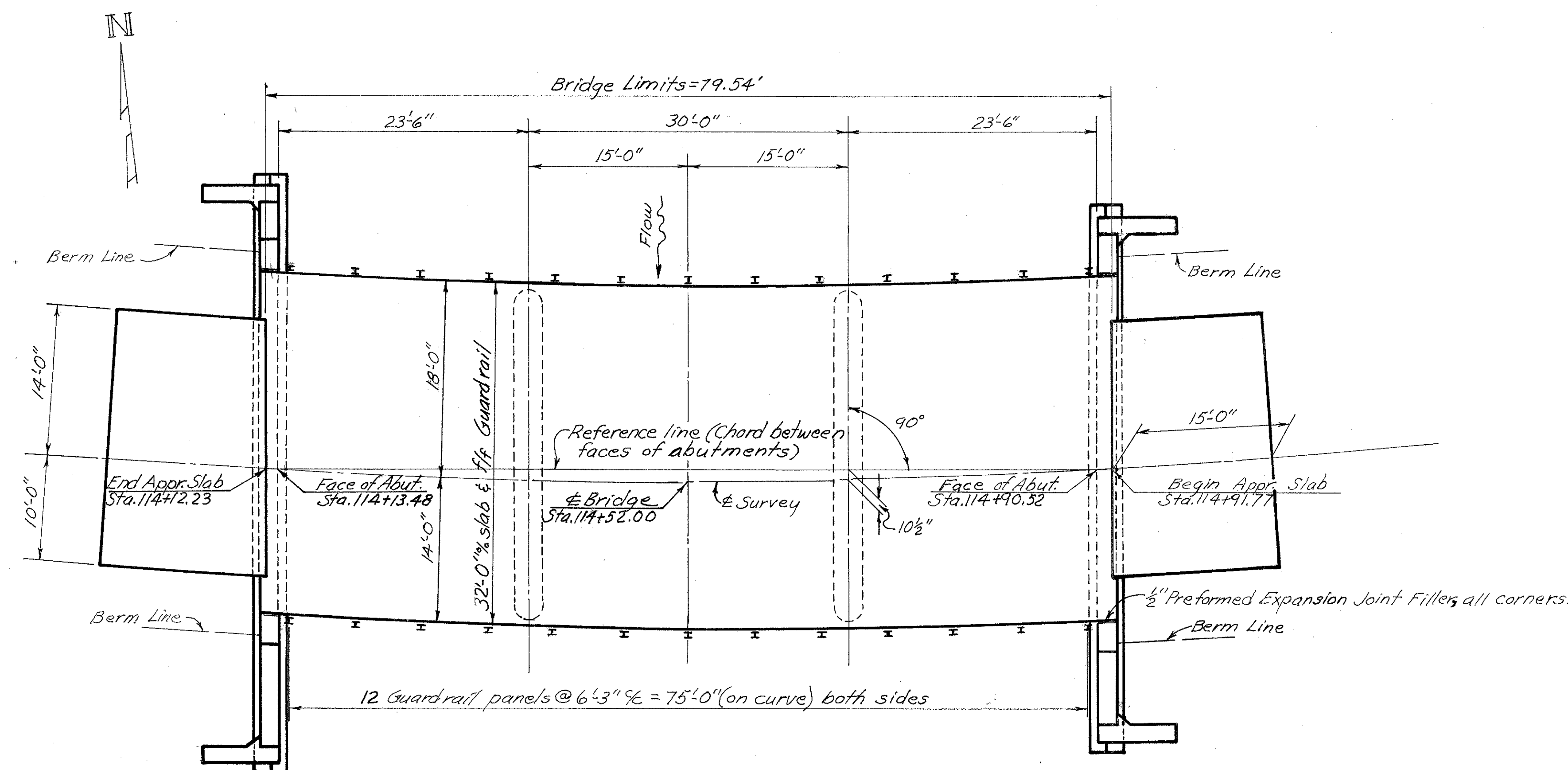
GENERAL NOTES

REFERENCE shall be made to Standard Drawings CS-1-54 revised 7-16-56 and P-1-54 revised 2-2-59.

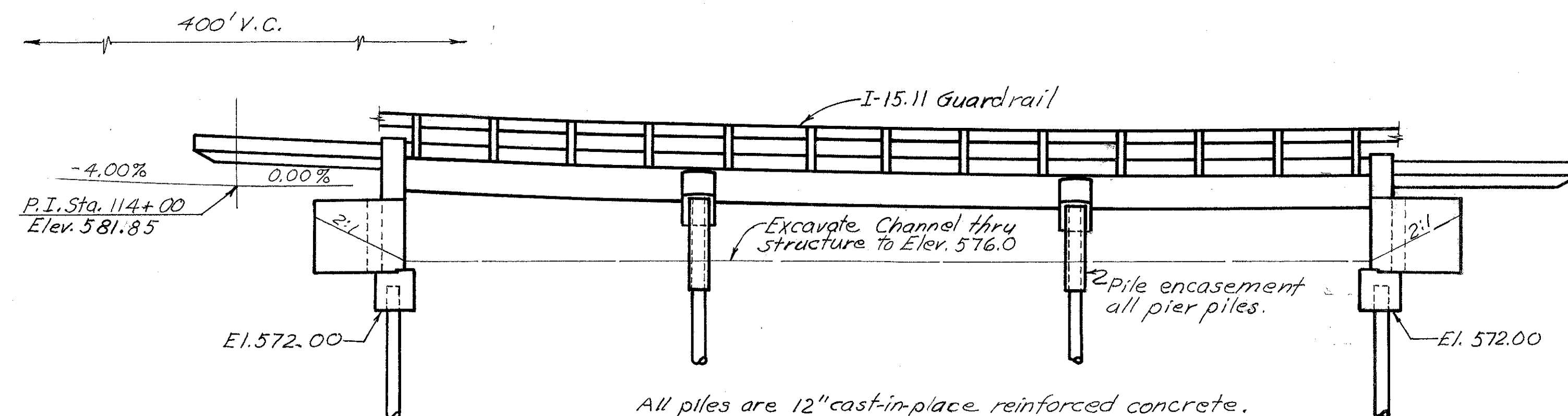
DESIGN SPECIFICATIONS: This structure conforms to the requirements of "Design Specifications for Highway Structures" of the State of Ohio, Department of Highways, dated 9-7-57, together with current revisions thereof.

PILES shall be driven to a minimum bearing capacity of 22 tons per pile for the abutments and 30 tons per pile for the piers.

LONGITUDINAL REINFORCING BARS in slab shall be placed approximately parallel to centerline of roadway. Spacing between bars shall be measured radially.



GENERAL PLAN



ELEVATION

ESTIMATED QUANTITIES

Item	Total	Unit	Description	Super.	Abuts.	Piers	Gen'l.
E-2	Lump	Sum	Cofferdams, cribs and sheeting		103		Lump
E-2	103	Cu.yds.	Unclassified excavation				
E-3	1124	Cu.yds.	Channel excavation				1124
S-1	119	Cu.yds.	Class "C" concrete, superstructure and pier caps	107		12	
S-1	57	Cu.yds.	Class "E" concrete, abutments above footings		57		
S-1	37	Cu.yds.	Class "E" concrete, abutment footings		37		
S-4	33,755	Lbs.	Reinforcing steel	24,091	6,419	3,245	
S-9	9	Sq. ft.	1/2" preformed expansion joint filler		9		
S-14	159.08	Lin. ft.	Railing (Type I-15.11) with galvanized steel posts and bolts	159.08			
S-16	Lump	Sum	First test pile				Lump
S-18	980	Lin. ft.	12" cast-in-place reinforced concrete piles (encasement)		500	480	
S-29	36	Cu.yds.	Porous backfill		36		
*Special	119	Each	Water-reducing, set-retarding admixture	107		12	

*See Proposal Note

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
DIVISION OF DESIGN AND CONSTRUCTION
BUREAU OF BRIDGES

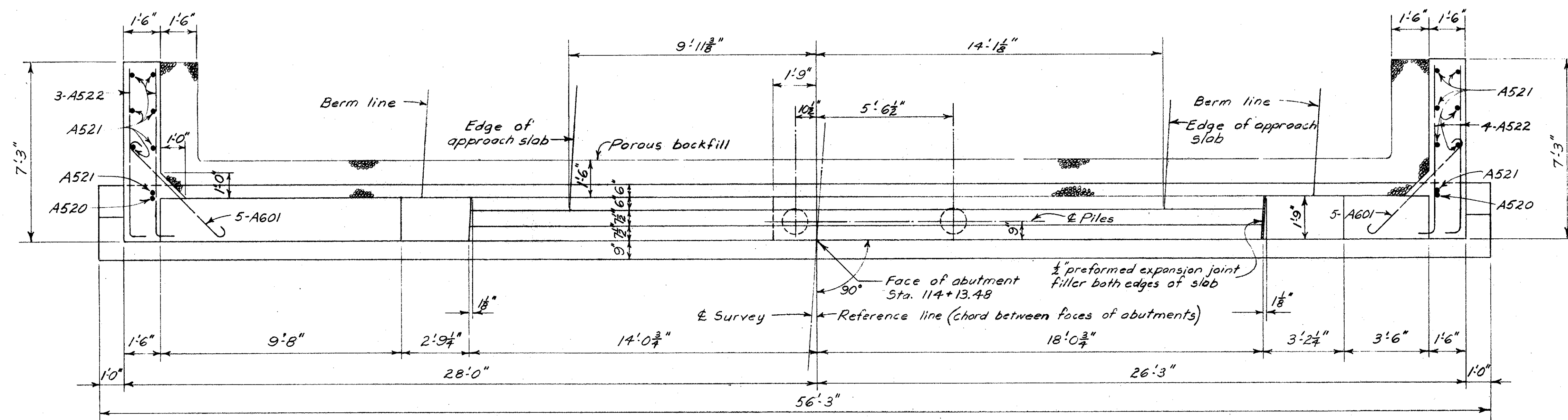
GENERAL PLAN, ELEVATION,
NOTES & ESTIMATED QUANTITIES

BRIDGE NO. LAW-522-0217
over COONEY CREEK

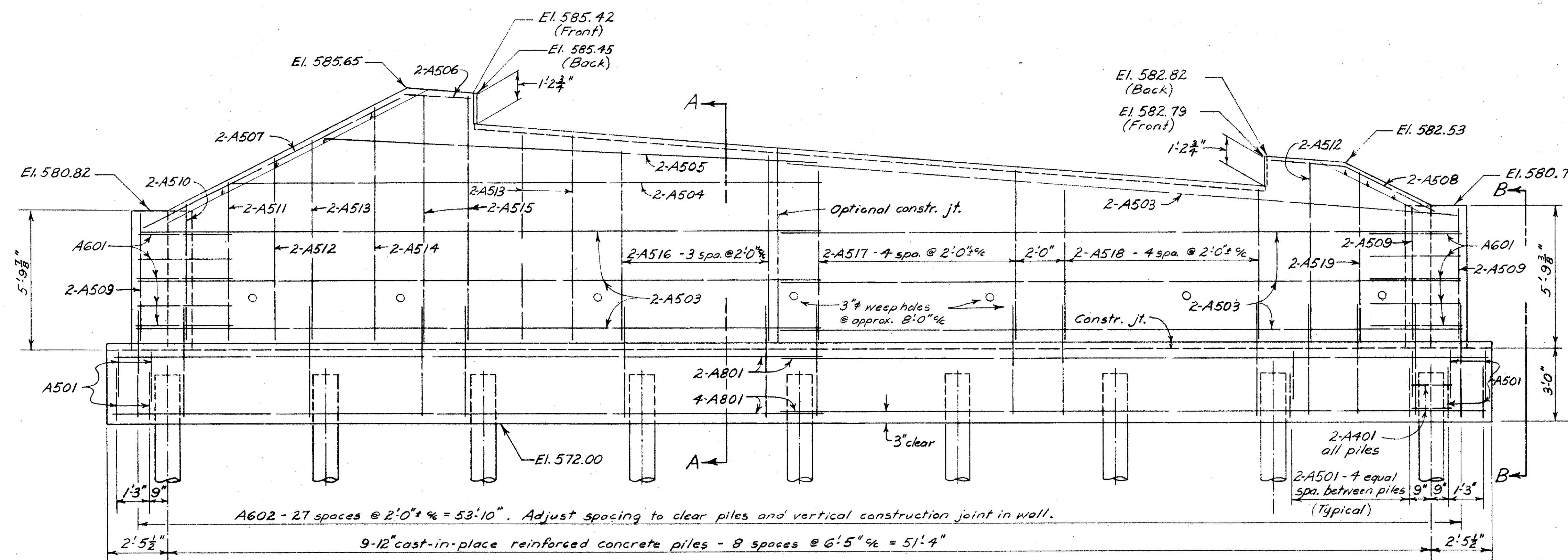
LAWRENCE COUNTY STA. 114+12.23
114+91.77

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
WJ	WJ	ND	J.D.R.	BFG	1-18-62	

LAW-522-0.75



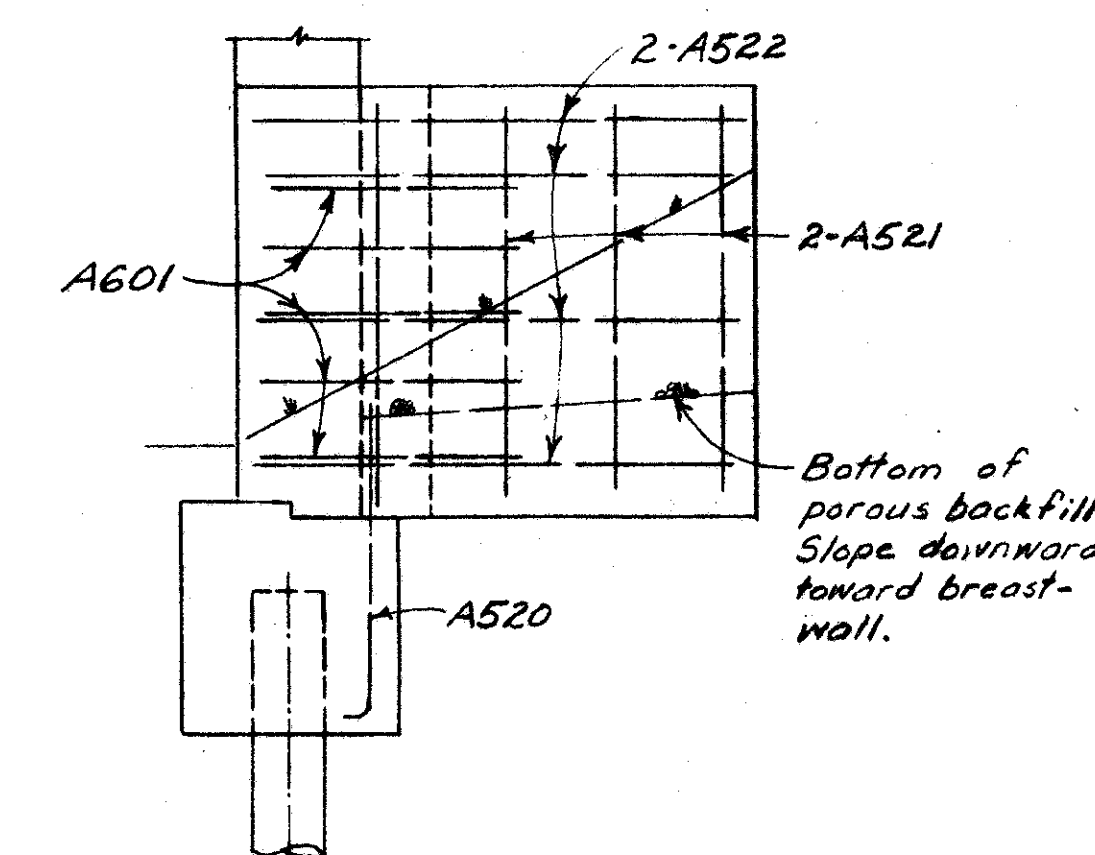
PLAN - REAR ABUTMENT



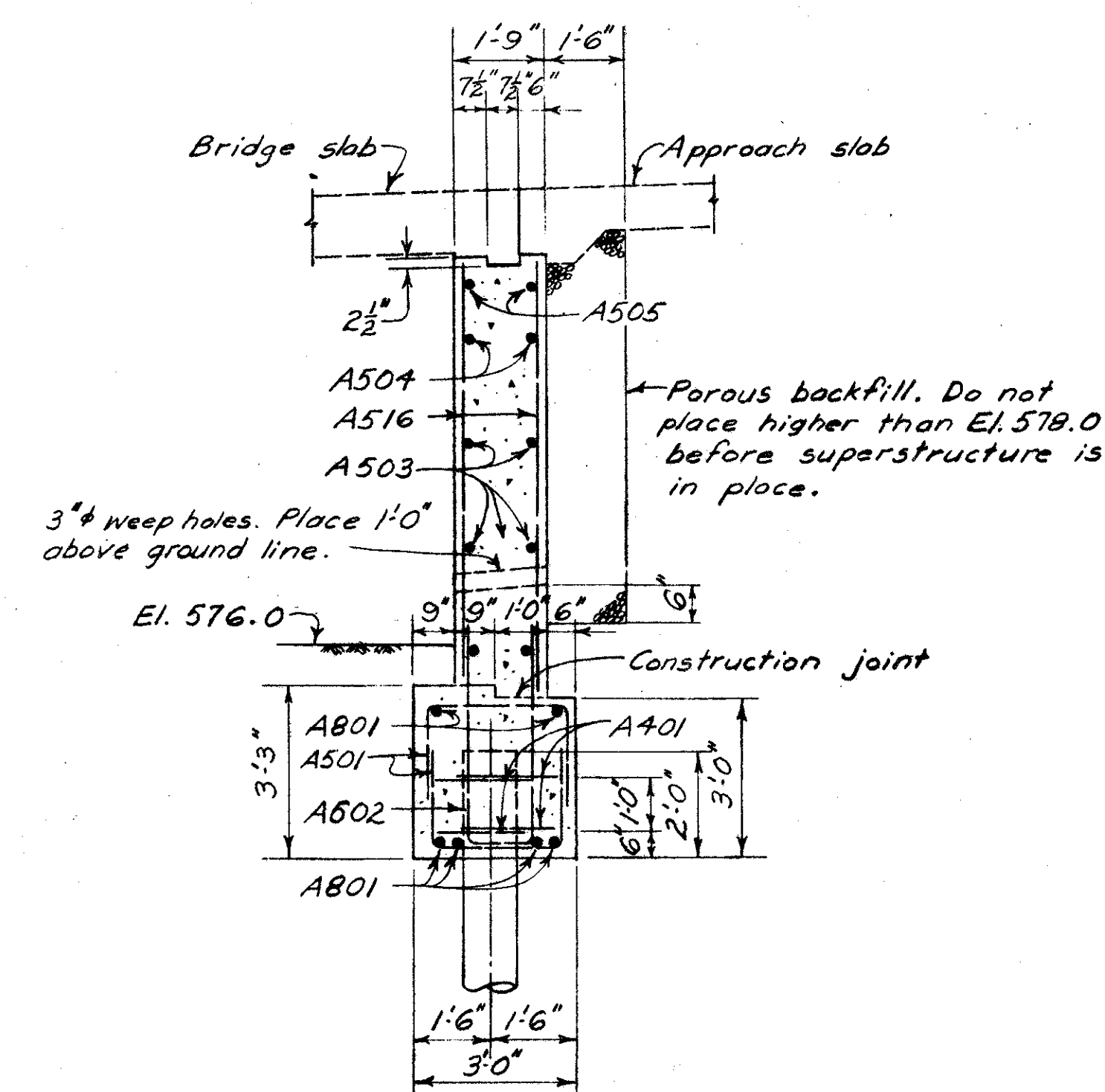
ELEVATION - REAR ABUTMENT

CONCRETE shall be Class "E" and payment will be made on this basis, but Class "C" concrete may be used in any or all parts of the abutments.

POROUS BACKFILL shall extend from the lower limit shown upward to the bottom of the approach slab and to the surface of the earth shoulders and embankment slopes, full length of the abutment and wings.



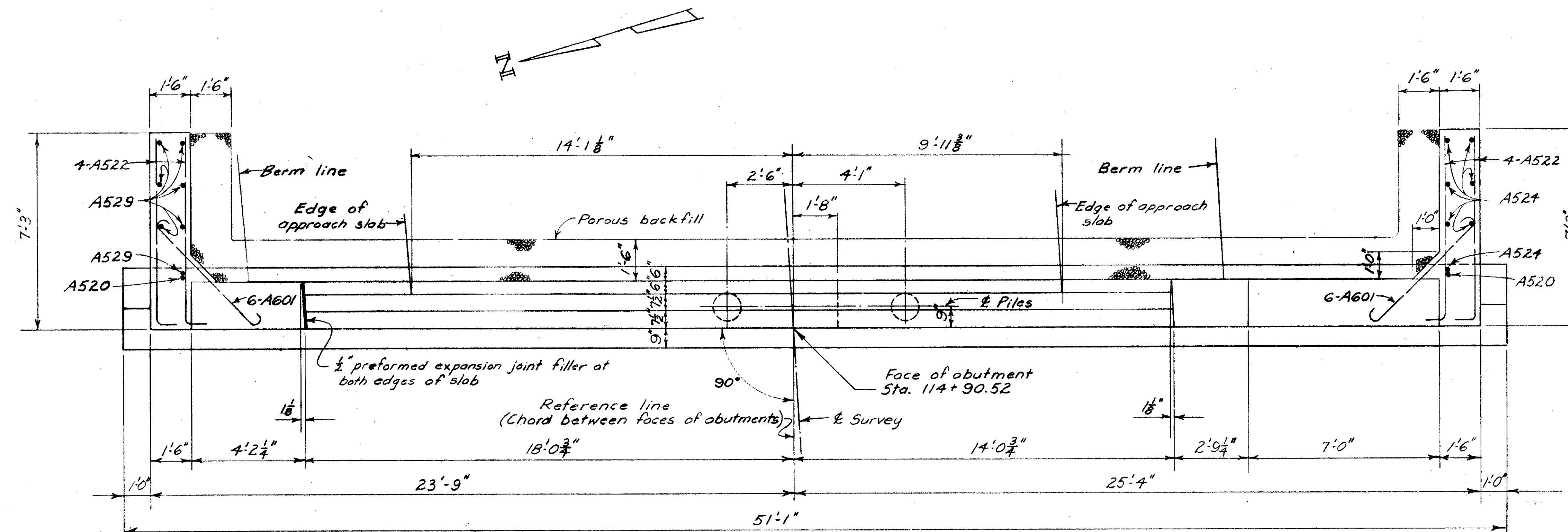
VIEW B-B



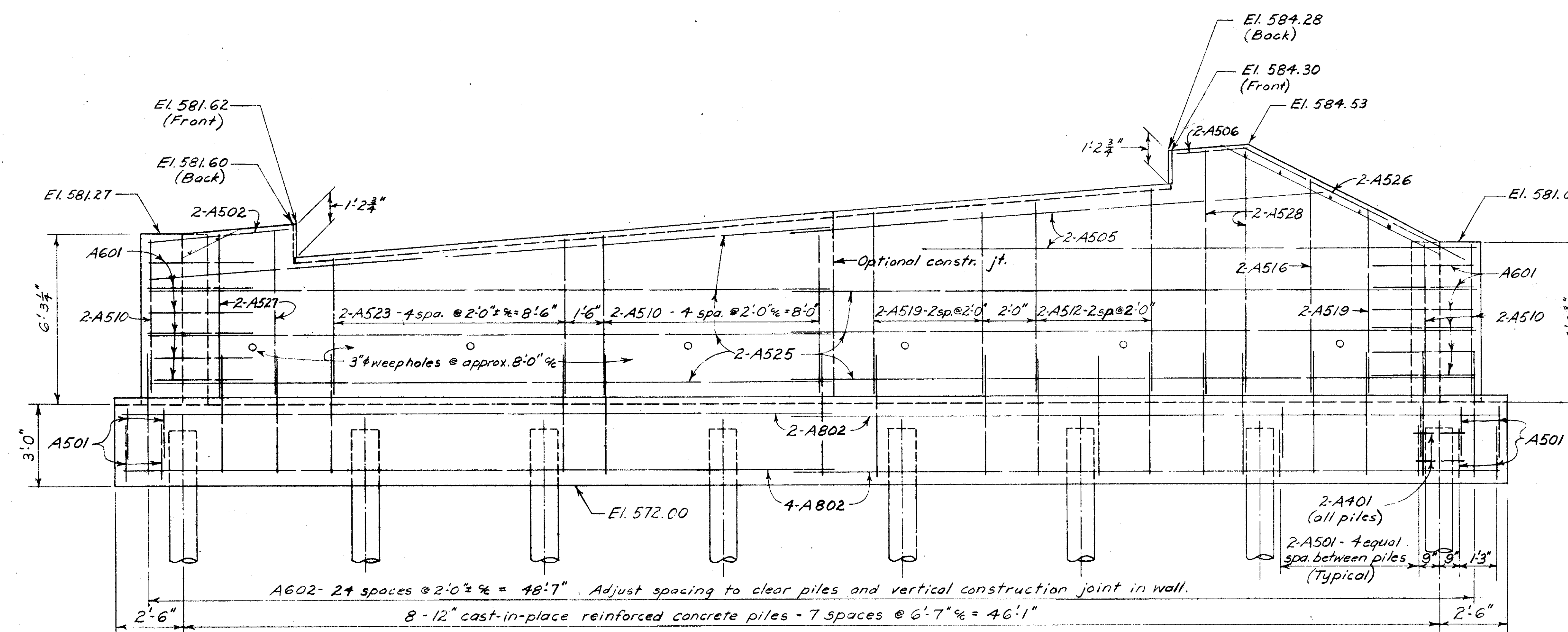
SECTION A-A

STATE OF OHIO DEPARTMENT OF HIGHWAYS DIVISION OF DESIGN AND CONSTRUCTION BUREAU OF BRIDGES					
REAR ABUTMENT DETAILS					
BRIDGE NO. LAW-522-0217					
OVER COONEY CREEK					
LAWRENCE COUNTY					
STA. 114 + 12.23					
114 + 91.77					
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
J.D.R.	J.D.R.	J.D.R.	J.D.R.	J.D.R.	1-18-62

LAW-522-0.75



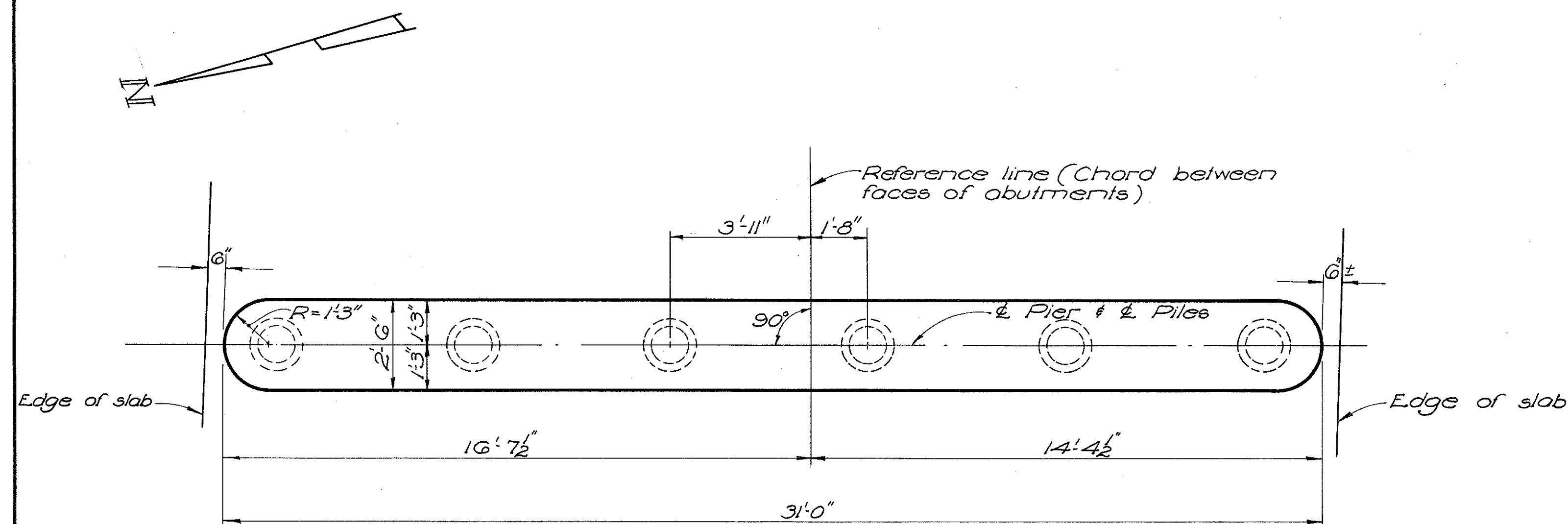
PLAN - FORWARD ABUTMENT



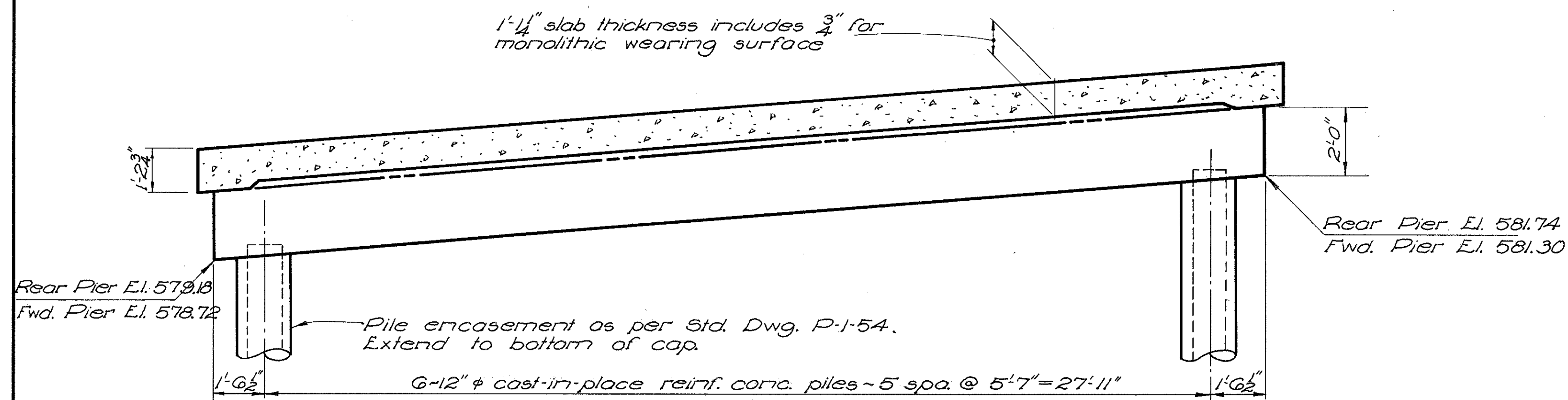
ELEVATION - FORWARD ABUTMENT

SECTIONS thru abutment are similar to those shown on Sheet No. 77

STATE OF OHIO DEPARTMENT OF HIGHWAYS DIVISION OF DESIGN AND CONSTRUCTION BUREAU OF BRIDGES						
FORWARD ABUTMENT DETAILS						
BRIDGE NO. LAW-522-0217						
OVER COONEY CREEK						
LAWRENCE COUNTY						
STA. 114+12.23 114+91.77						
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
			J.D.R.	BFG	9/8/62	1-10-62



PIER PLAN



ELEVATION

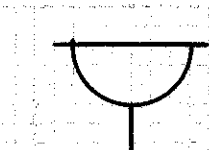
For additional pier details see Standard Drawing P-1-54

REINFORCING STEEL LIST									
SUPERSTRUCTURE					BENDING DIAGRAMS				
MARK	No.	LENGTH	WEIGHT	SHP					
A824	87	28'-1"	6523	S					
B824	28	21'-0"	1570	B					
C824	28	18'-4"	1371	B					
D824	14	19'-6"	729	S					
E824	14	15'-10"	592	S					
F924	58	21'-3"	4190	S					
G924	28	10'-6"	1000	S					
H924	28	8'-2"	777	S					
J601	30	15'-3"	687	S					
K601	15	13'-10"	312	S					
M601	80	31'-6"	3185	S					
NG01	54	31'-6"	2555	S					
PIERS									
P1001	8	31'-6"	1084	S					
P901	8	28'-6"	775	S					
P701	72	4'-0"	589	S					
P501	4	28'-6"	119	S					
P502	48	9'-0"	451	B					
P503	8	6'-4"	53	B					
P401	48	5'-5"	174	B					
ABUTMENTS									
A801	12	29'-3"	937	S					
A802	12	26'-7"	852	S					
A601	22	6'-4"	209	B					
A602	53	10'-3"	816	B					
A501	166	6'-9"	1169	B					
A502	2	5'-0"	10	S					
A503	14	27'-9"	405	S					
REAR FWD.									
A504	2	23'-9"	50	S					
A505	6	20'-0"	125	S					
A506	4	2'-5"	10	S					
A507	2	12'-0"	25	S					
A508	2	7'-0"	15	B					
A509	6	5'-4"	33	S					
A510	18	5'-9"	108	S					
A511	2	6'-6"	14	S					
A512	10	7'-3"	76	S					
A513	6	8'-2"	51	S					
A514	2	9'-6"	20	S					
A515	4	10'-0"	42	S					
A516	10	7'-9"	81	S					
A517	10	7'-0"	73	S					
A518	10	6'-2"	64	S					
A519	10	6'-9"	70	S					
A520	4	4'-0"	20	B					
A521	14	5'-4"	78	S					
A522	30	7'-5"	232	B					
A523	10	5'-0"	52	S					
A524	7	5'-7"	41	S					
A525	14	25'-2"	367	S					
A526	2	9'-0"	19	S					
A527	4	6'-0"	25	S					
A528	4	8'-10"	37	S					
A529	7	5'-10"	43	S					
A401	68	5'-6"	250	B					
REPLACEMENT BARS									
RE1001	1	7'-2"	—	S					
RE901	1	6'-10"	—	S					
RE801	1	6'-6"	—	S					
RE701	1	6'-2"	—	S					
RE601	1	5'-11"	—	S					
RE501	1	5'-7"	—	S					
RE401	1	5'-5"	—	B					

REPLACEMENT BARS: If reinforcing bars are fabricated from stock which has previously been tested and approved by the Ohio Highway Testing Laboratory, test samples as provided in Sec. 3-4.02 need not be furnished and replacement bars will not be required.

**LAWRENCE COUNTY
LAW-522-0.75**

0+98 = 0.0 SECTION



End Area		Volume	
Cut	Fill	Cut	Fill
Sta. 0+98	0	0	
			40 0
	115	0	
			145 0
	107	0	
			161 0
	151	0	
			134 0
			133 0

577.44
0+75
578.0

576.83
0+50
578.50

576.25
0+25
578.0

576.00
0+00
578.50

Face of abutment

Face of abutment

Face of abutment

Excavation 1124C yd.
Embankment 00C yd.

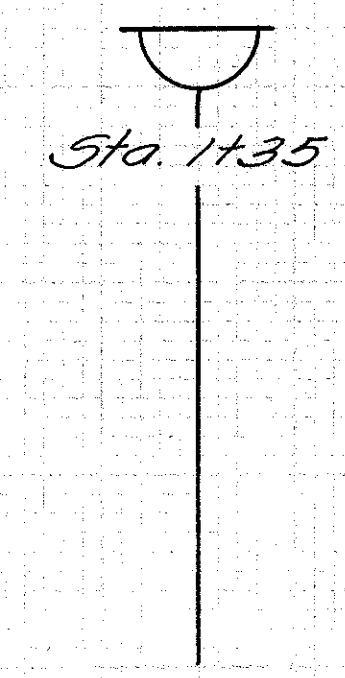
PROP. CHANNEL SECTIONS
LT. & STA. 114+52

STA. 0+00 TO STA. 0+98 LT. &

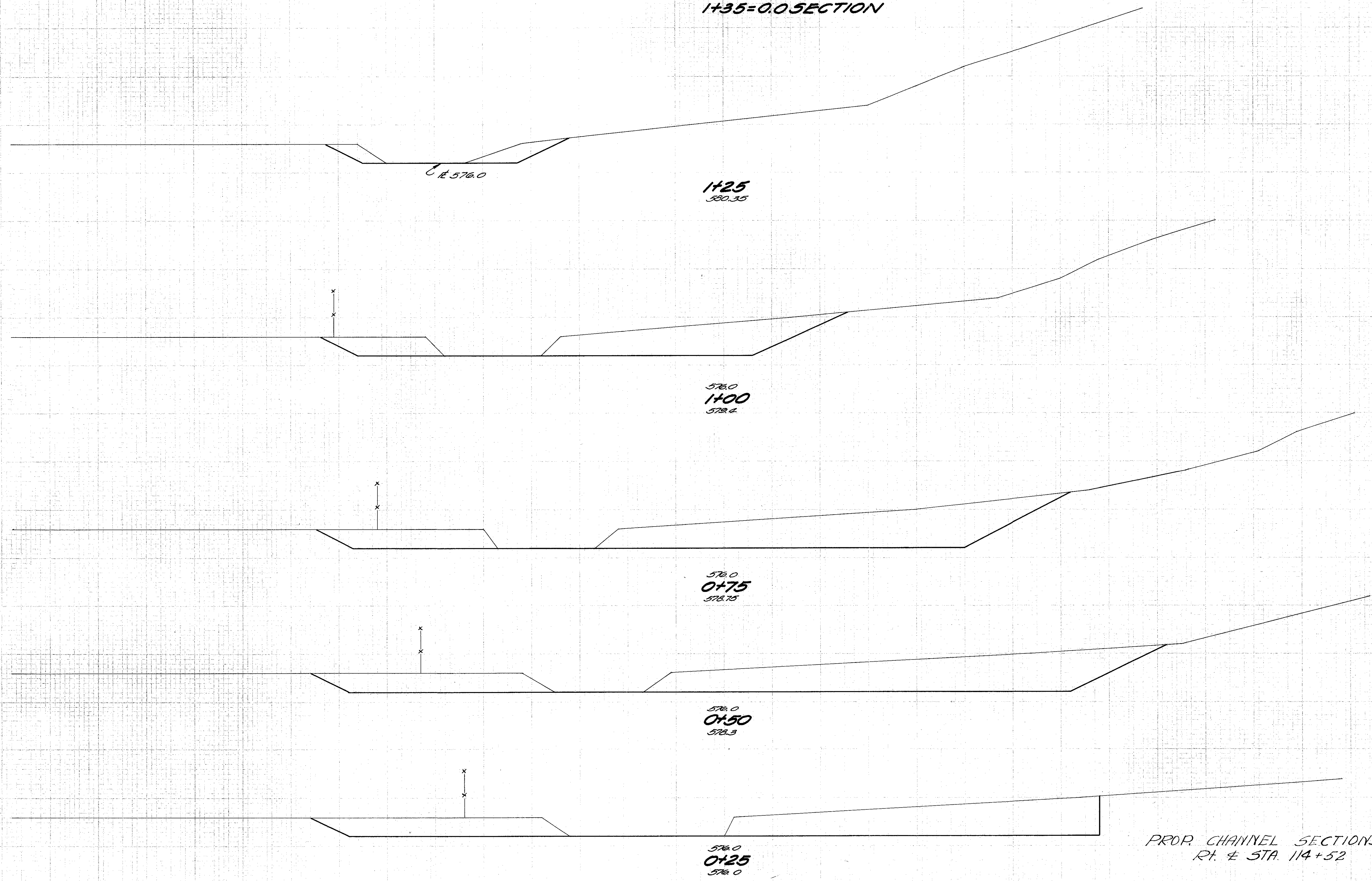
70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

**LAWRENCE COUNTY
LAW-522-0.75**

1+35=0.05 SECTION



End Area		Volume	
Cut	Fill	Cut	Fill
0	0		
		3	0
17	0		
		54	0
39	0		
		82	0
177	0		
		174	0
190	0		
		175	0
179	0		
		147	0
138	0		



PROP. CHANNEL SECTIONS
RT. & STA. 114+52

STA. 0+25 TO STA. 1+35 RT. &

70 60 50 40 30 20 10 2 10 20 30 40 50 60 70

PROP CURVE DATA							
Curve	PI Station	Δ	Dc	R	T	L	E
1	50+88.47	9°30'	712°	804.39	66.84	135.37	2.77
2	60+83.46	100°	9°30'	603.11	718.76	1052.63	
3	62+74.47	9°30'	712°	804.39	66.84	133.37	2.77
4	71+41.28	4°30'	44°39'	1273.34	50.03	100.008	.98
5	77+34.85	56°29'	6°	954.93	516.45	946.83	130.67
6	81+88.22	4°30'	44°39'	1273.34	50.03	100.008	.98
7	90+41.14	1.87°	1.87°	3056.11	50.01	100.001	.112
8	94+40.99	17°25'	2.5°	2291.83	351.04	690.00	26.72
9	98+31.16	1.87°	1.87°	3056.11	50.01	100.001	.112
10	103+07.66	10°	74°3'	764.21	66.86	133.37	2.91
11	107+11.91	54°25'	10°	572.95	294.56	544.16	71.28
12	109+85.20	10°	74°3'	764.21	66.86	133.37	2.91
13	112+88.73	6°	5°29'	955.01	50.05	100.01	1.31
14	114+33.39	14°37'	8°	716.19	91.85	182.70	5.86
15	115+71.45	6°	5°29'	955.01	50.05	100.01	1.31
16	125+33.06	8°10'	0°56'	6138.84	438.25	875.00	15.62

LOCATION PLAN

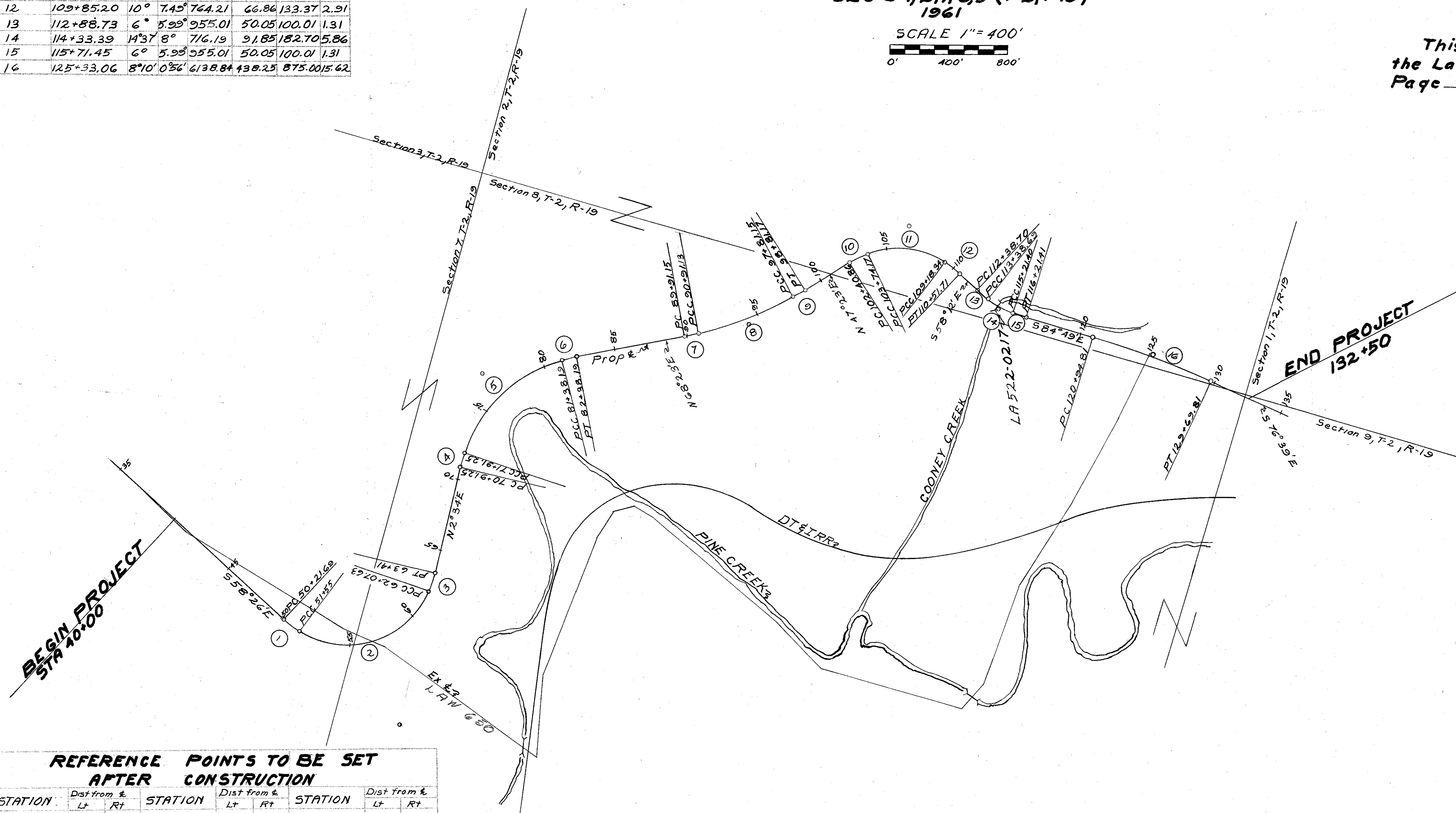
STATE OF OHIO DEPARTMENT OF HIGHWAYS
STATE ROUTE No 522
SECTION 0.75
LAWRENCE COUNTY
ELIZABETH TWP.
SEC'S 1,2,7,8,9 (T-2,T-19)
1961

SCALE 1"=400'
0' 400' 800'

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

Recorded in Lawrence County Record
of Plats Book 5 Page 222 Date 3-13-62

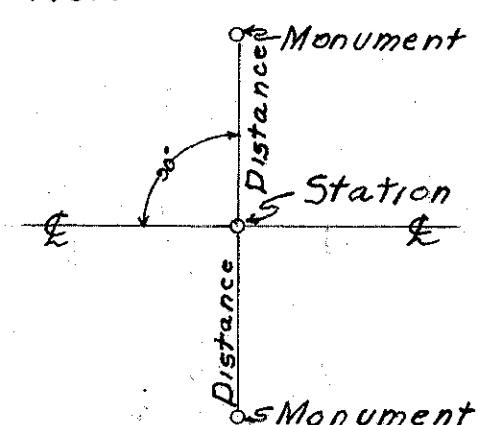
This plat supersedes the plat recorded in
the Lawrence County Record of Plats Book 3
Page 137 Dated Aug 23, 1952



REFERENCE POINTS TO BE SET AFTER CONSTRUCTION

STATION	Dist from &	STATION	Dist from &	STATION	Dist from &
40+00	16	76+00	16	102+40.86	16
45+00	16	80+00	16	103+74.17	16
50+21.65	16.5	81+38.19	16	109+18.34	18
51+55	18	82+38.19	16	110+51.71	16
56+00	18	87+00	16	112+38.70	18
61+00	18	89+31.15	16	113+38.69	18
62+07.63	18	90+31.13	16	115+21.40	18
63+41	16.5	95+00	16	116+21.41	16
68+00	16	97+81.15	17	120+34.81	16
70+31.25	16	98+81.17	16	125+00	16
71+31.25	16			125+63.81	16
				132+50	16

Details for Setting
Reference Points



I hereby certify that this Plat
is a true delineation of a Survey
made by the Ohio Department
of Highways
Date 24 January 1962
Augustus P. Cooper P S 364

UTILITIES:
 OHIO POWER Co.
 301-315 Cleveland Ave. S-W.
 Canton 2, Ohio
 OHIO BELL TELEPHONE Co.
 111 North Fourth St.
 Columbus 15, Ohio

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

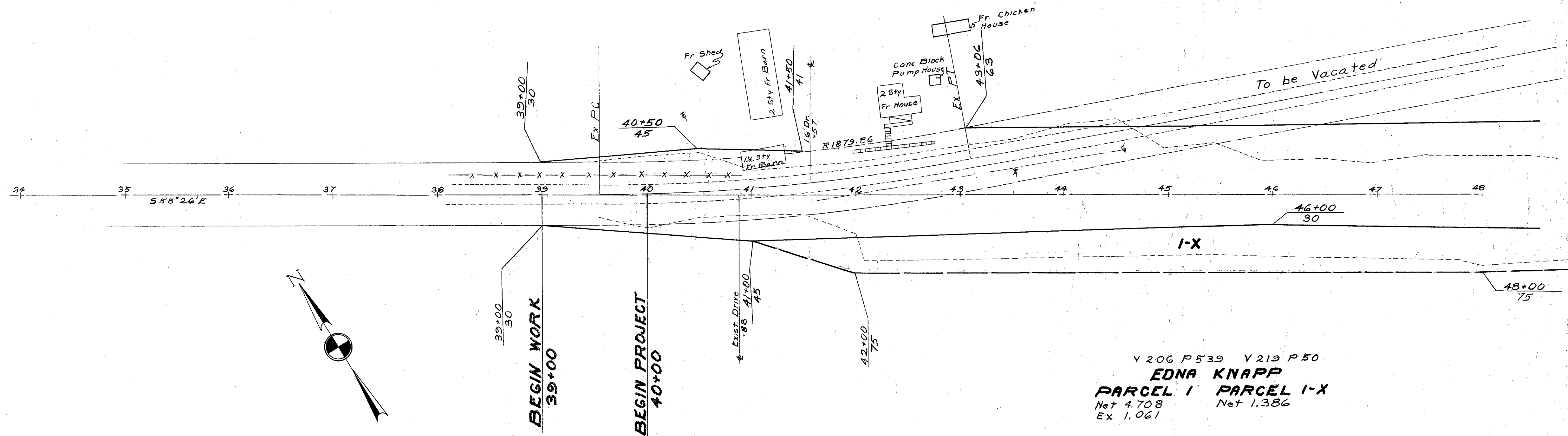
82
88

R/W PLAN
 LAW-522-0.75
 LAWRENCE COUNTY

Sec. 7, T-2, R-19

V 206 P 539 Y 219 P 50
 EDNA KNAPP
 PARCEL 1 PARCEL 1-X
 Net 4.708 Net 1.386
 Ex 1.061

EXIST CURVE DATA
 $\Delta = 10^{\circ}49'14''$
 $D_c = 3^{\circ}00'$
 $R = 1909.86$
 $T = 180.00$
 $L = 360.83$
 $E = 8.54$



V 206 P 539 Y 219 P 50
 EDNA KNAPP
 PARCEL 1 PARCEL 1-X
 Net 4.708 Net 1.386
 Ex 1.061

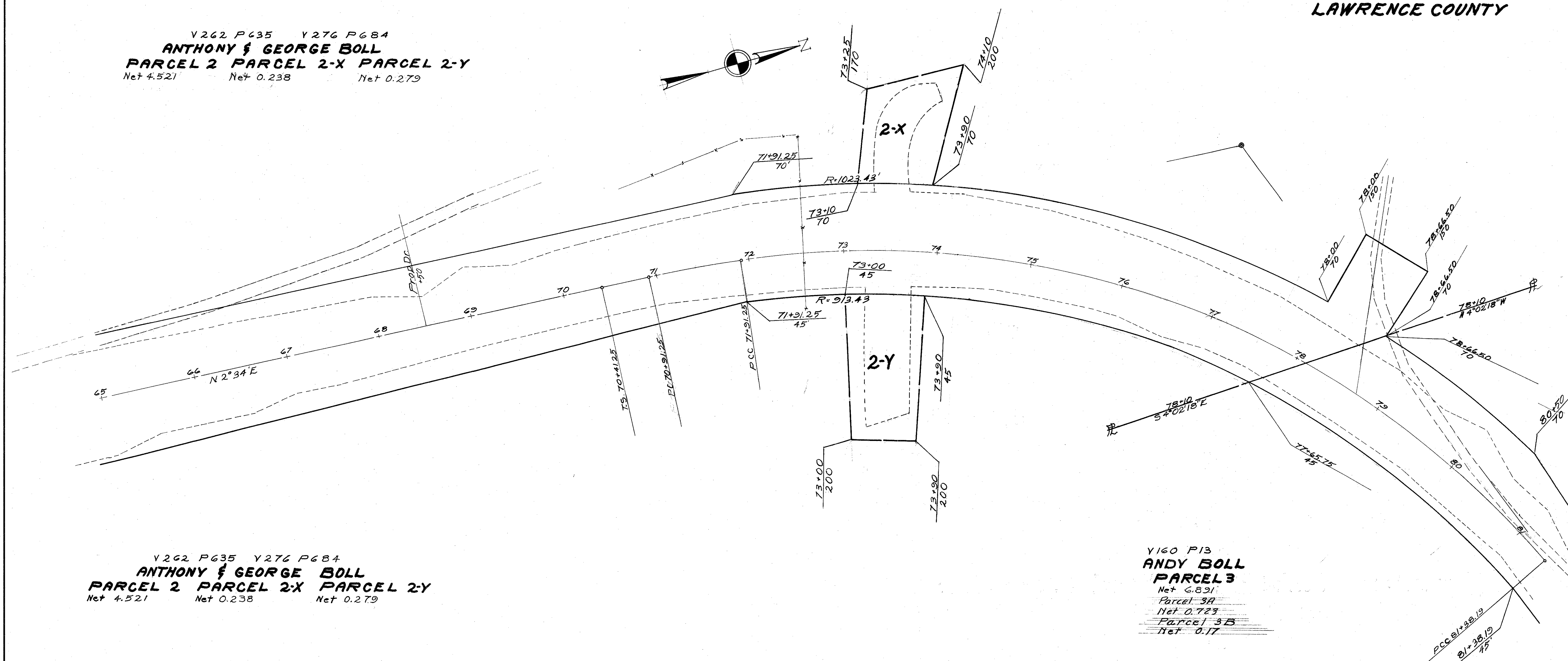
COMPLETION DATE 1-24-62			Sheet
Revised	Revision Description	By	
			1
			7

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	



R/W PLAN
LAW-522-0.75
LAWRENCE COUNTY

V262 P635 V276 P684
ANTHONY & GEORGE BOLL
PARCEL 2 PARCEL 2-X PARCEL 2-Y
 Net 4.521 Net 0.238 Net 0.279



V262 P635 V276 P684
ANTHONY & GEORGE BOLL
PARCEL 2 PARCEL 2-X PARCEL 2-Y
 Net 4.521 Net 0.238 Net 0.279

V160 P13
ANDY BOLL
PARCEL 3
 Net 6.891
 Parcel 3A
 Net 0.723
 Parcel 3B
 Net 0.17

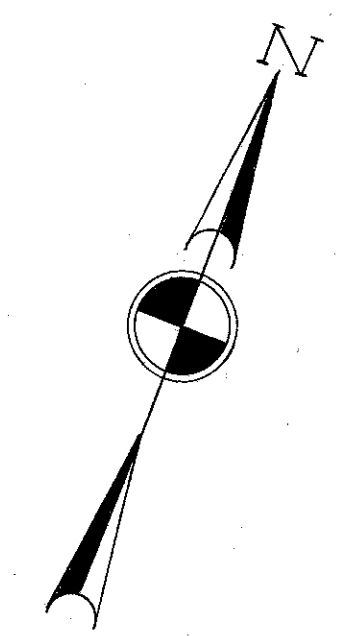
R/W CURVE		PROP SPIRAL CURVE	
$\Delta = 4.5^\circ$		$\Delta = 65^\circ 49'$	$X_c = 149.91$
$D_c = 4.4996^\circ$		$D_c = 6^\circ 00'$	$Y_c = 3.93$
$R = 1273.34$		$R = 954.93$	$L_s = 150.00$
$T = 50.03$		$T_s = 693.60$	$E_s = 183.72$
$L = 100.008$		$\theta_s = 4.5^\circ$	$L_c = 946.94$
$E = .98$			

COMPLETION DATE 1-24-62			Sheet
Revised	Revision Description	By	
6/1/62	Moved 2-X & 2-Y 50 ft Back BDB		3
			7

R/W PLAN
LAW-522-0.75
LAWRENCE COUNTY

R/W CURVE
 $\Delta = 1.875^\circ$
 $Dc = 1.874'$
 $R = 3056.11$
 $T = 50.01$
 $L = 100.001$
 $E = 0.412$

PROP SPIRAL CURVE
 $\Delta = 21'00''$
 $Dc = 2'30''$
 $R = 2291.83$
 $Ts = 429.84$
 $Os = 1.875'$
 $Xc = 149.98$
 $Yc = 1.64$
 $Ls = 150.00$
 $Es = 39.40$
 $Lc = 690.00$

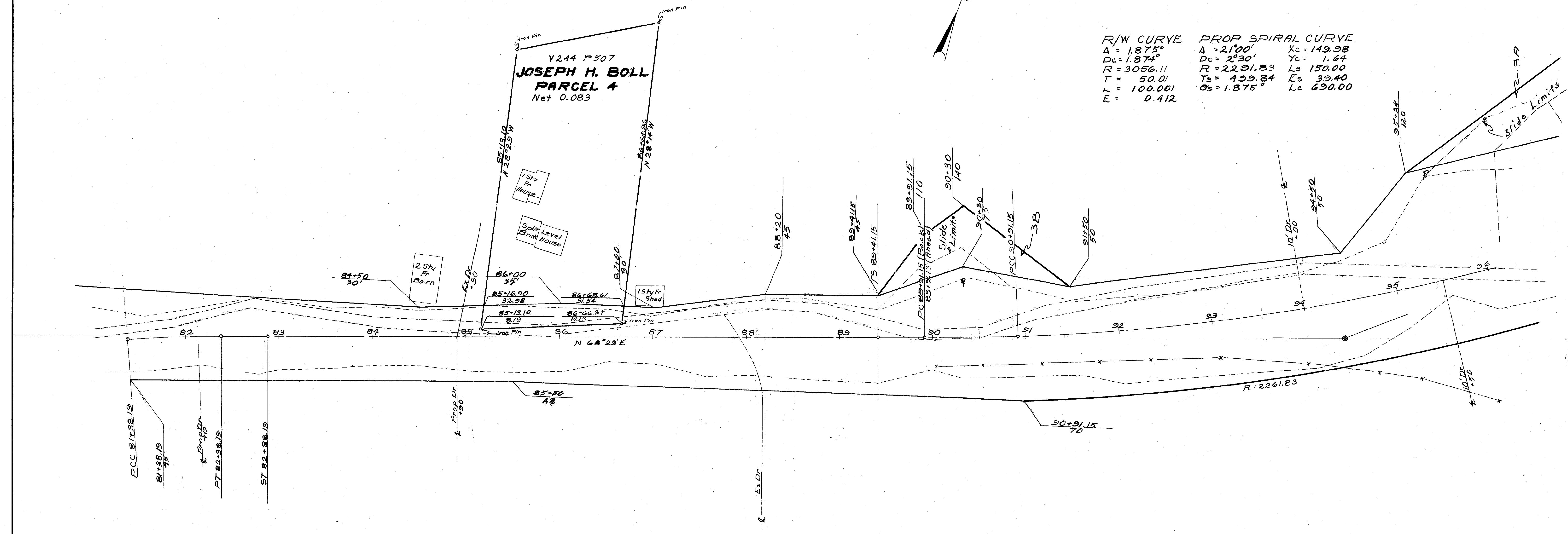


V160 P13
ANDY BOLL
PARCEL 3
Net 0.6891
Parcel 3A
Net 0.723
Parcel 3B
Net 0.17ac

V244 P507
JOSEPH M. BOLL
PARCEL 4
Net 0.083

R/W CURVE
 $\Delta = 4.5^\circ$
 $Dc = 4.499$
 $R = 1273.34$
 $T = 50.03$
 $L = 100.008$
 $E = .98$

V160 P13
ANDY BOLL
PARCEL 3
Net 0.6891
Parcel 3A
Net 0.723
Parcel 3B
Net 0.17ac



COMPLETION DATE 1-24-62			Sheet
Revised	Revision Description	By	
6/1/62	Eliminated 3-X, 3Y, 3-Z, 3-W	BDB	4
1/29/63	Addition 3-B	BDB	7

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

36
88

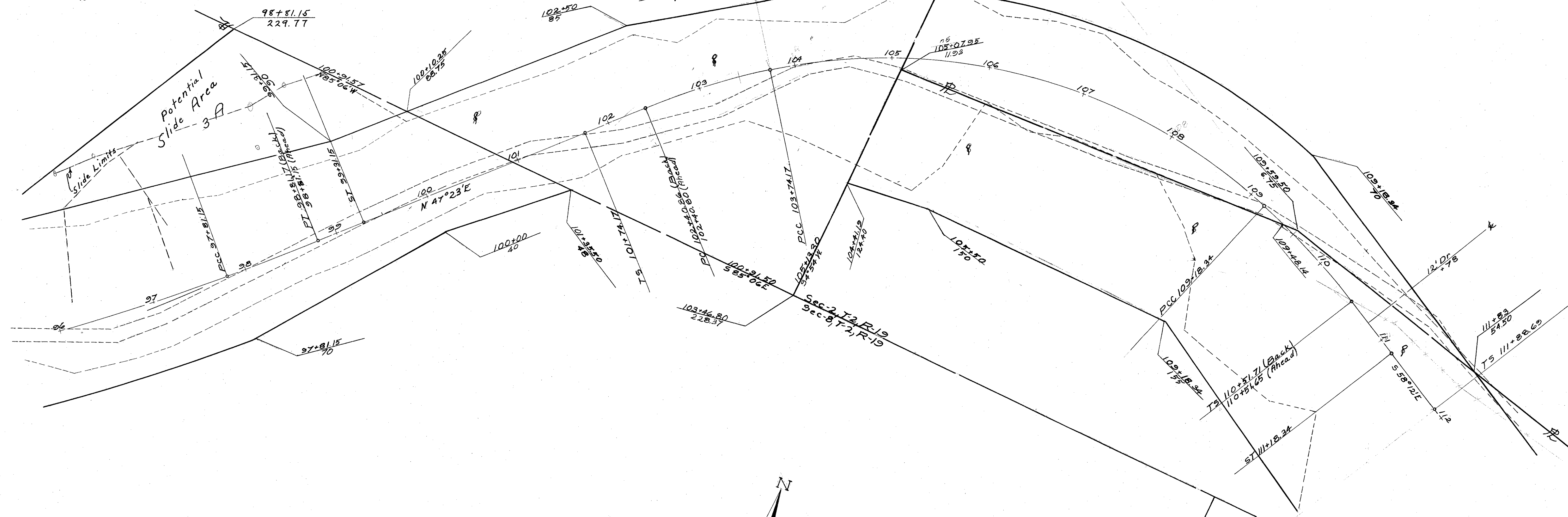
Tract 27
V 213 P 596
MARQUETTE CEMENT MANUFACTURING CO.
PARCEL 5
Net 2.063

Sec 2, T-2, R-19

R/W PLAN
LAW-522-0.75
LAWRENCE COUNTY

V 103 P 47
FREDERICH RASE
PARCEL 6
Net 1.25

R/W CURVE
 $\Delta = 1.875^\circ$
 $Dc = 1.874'$
 $R = 3056.11$
 $T = 50.01$
 $L = 100.001$
 $E = 0.4125$



Sec-8, T-2, R-19

V 160 P 13
ANDY BOLL
PARCEL 3
Net 6.891
Parcel 3 A
Net 0.723
Parcel 3 B
Net 0.17ac

R/W CURVE
 $\Delta = 10^\circ 00'$
 $Dc = 7.497'$
 $R = 764.21$
 $T = 66.86$
 $L = 133.37$
 $E = 2.91$

PROP SPIRAL CURVE
 $\Delta = 74^\circ 25'$
 $Dc = 10^\circ 00'$
 $R = 572.96$
 $Ts = 537.14$
 $Es = 10^\circ 00'$
 $Lc = 544.17$

R/W CURVE
 $\Delta = 10^\circ 00'$
 $Dc = 7.497'$
 $R = 764.21$
 $T = 66.86$
 $L = 133.37$
 $E = 2.91$

V 158 P 598 V 3 P 467
FRANKLIN WAGNER
PARCEL 7 PARCEL 7-X PARCEL 7-Y
Net 6.755 Net 0.111 Net 0.172
Ex 1.031
PARCEL 7-Z
Net 0.084

COMPLETION DATE	1-24-62	Sheet
Revised	Revision Description	By
11/15/62	Addition of Parcel 3 A	AP
		5
		7

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

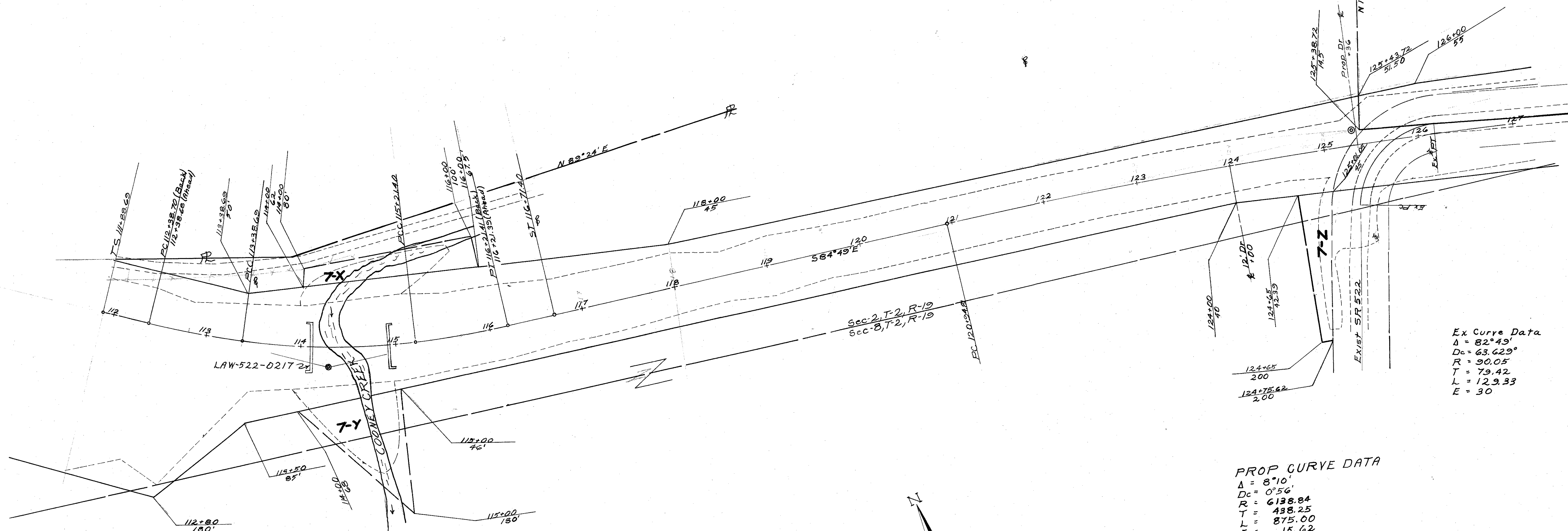
87
88

**R/W PLAN
LAW-522-0.75
LAWRENCE COUNTY**

V185 P556
**FRED RASE
PARCEL 8**
Net 0.499
Ex 0.453

R/W CURVE PROP SPIRAL CURVE R/W CURVE
 $\Delta = 6^{\circ}00'$ $\Delta = 26^{\circ}37'$ $X_c = 149.83$ $\Delta = 6^{\circ}00'$
 $D_c = 5.999^{\circ}$ $D_c = 8^{\circ}00'$ $Y_c = 5.23$ $D_c = 5.999^{\circ}$
 $R = 955.01$ $R = 716.20$ $L_s = 150.00$ $R = 955.01$
 $T = 50.05$ $T_s = 244.70$ $E_s = 21.12$ $T = 50.05$
 $L = 100.01$ $\Theta_s = 6^{\circ}00'$ $L_c = 182.71$ $L = 100.01$
 $E = 1.31$ $E = 21.21$

V103 P47
**FREDERICK RASE
PARCEL 6**
Net 1.25



Ex Curve Data
 $\Delta = 82^{\circ}49'$
 $D_c = 63.629^{\circ}$
 $R = 90.05$
 $T = 79.42$
 $L = 129.33$
 $E = 30$

PROP CURVE DATA
 $\Delta = 8^{\circ}10'$
 $D_c = 0^{\circ}56'$
 $R = 6138.84$
 $T = 438.25$
 $L = 875.00$
 $E = 15.62$

V158 P598 V3 P467
FRANKLIN WAGNER
PARCEL 7 PARCEL 7-X PARCEL 7-Y PARCEL 7-Z
Net 6.755 Net 0.111 Net 0.172 Net 0.084
Ex 1.031

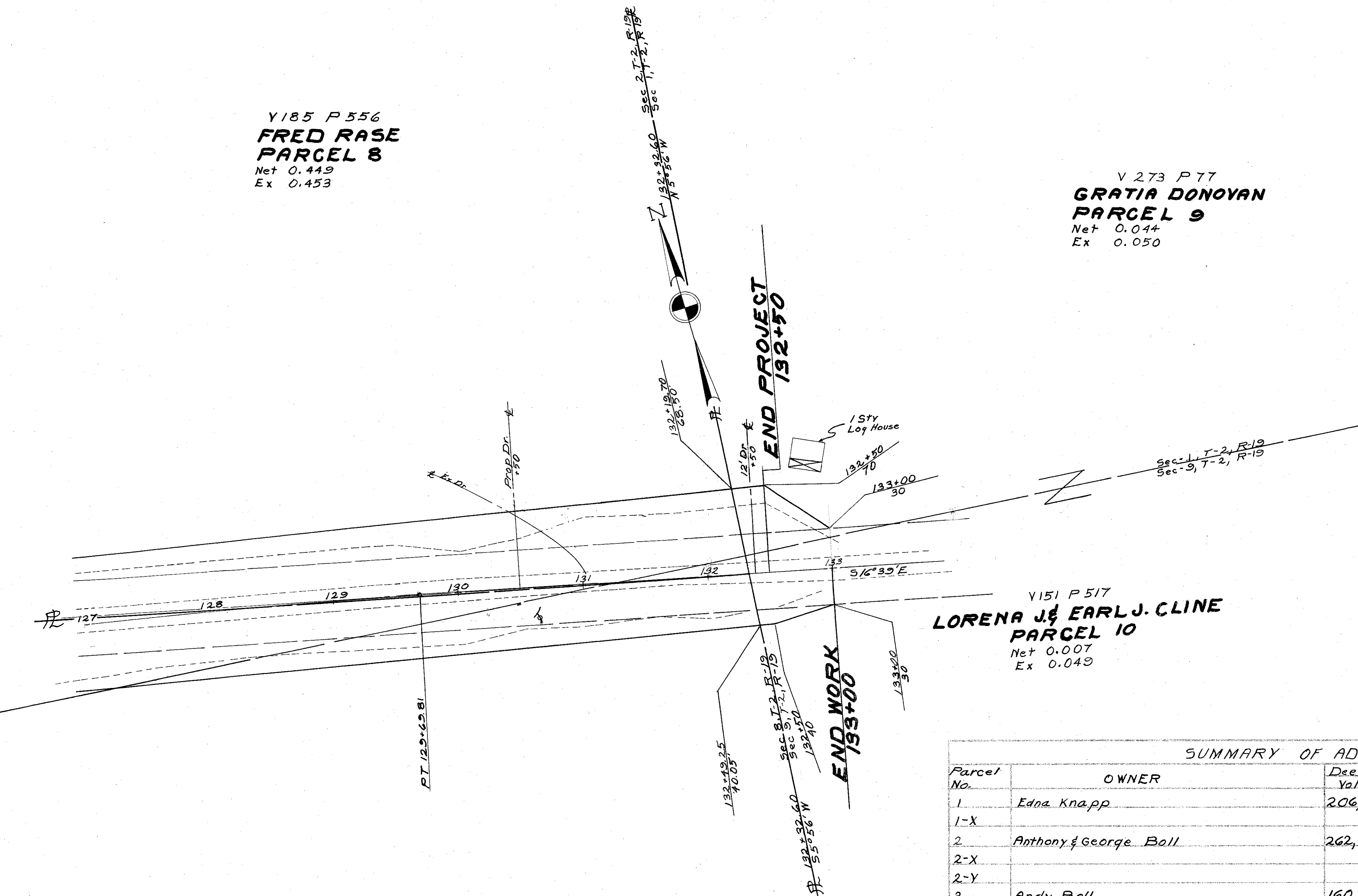
COMPLETION DATE 1-24-62			Sheet
Revised	Revision	Description	By
			6
			7

R/W PLAN
LAW-522-0.75
LAWRENCE COUNTY

V185 P 556
FRED RASE
PARCEL 8
Net 0.449
Ex 0.453

V 273 P 77
GRATIA DONOVAN
PARCEL 9
Net 0.044
Ex 0.050

V151 P 517
LORENA J & EARL J. CLINE
PARCEL 10
Net 0.007
Ex 0.049



V158 P 598 V 3 P 467
FRANKLIN WAGNER
PARCEL 7 PARCEL 7-X PARCEL 7-Y PARCEL 7-Z
Net 0.755 Net 0.111 Net 0.172 Net 0.084
Ex 1.031

SUMMARY OF ADDITIONAL RIGHT OF WAY TO BE ACQUIRED

Parcel No.	OWNER	Deed Vol	Record Page	Deed Areas	To be Acquired Land Bldgs	Residue Lt Rt	Sheet No	Remarks
1	Edna Knapp	206,539	219,50	214.05	4.708 1 Fr Barn	13.50 195.842	1,2	Vacation Waiver
1-X					1.386		1,2	
2	Anthony & George Boll	262,276	635,684	280	4.521	152.479 23.00	2,3	
2-X					0.238		3	
2-Y					0.279		3	
3	Andy Boll	160	13	112	6.891	31.00 74.109	3,4,5	W.A. 84+90 Lt
3A					0.723		4,5	Slide Area
3B					0.17			
4	Joseph H. Boll	244	507	1.06	0.083	0.977	4	
5	Marquette Cement Manufacturing Co.	213	596	160	2.063	157.937	5	
6	Fredrick Rase	103	47	70.44	1.25	69.19	5,6	
7	Franklin Wagner	158,3	598,467	214.15	6.755	3.90 203.495	5,6,7	
7-X					0.111		6	
7-Y					0.172		6	
7-Z					0.084		6	
8	Fred Rase	185	556	1.76	0.499	1.261	6,7	W.A. 130+50 Lt
9	Gratia Donovan	273	77	1	0.044	956	7	W.A. 132+50 Lt
10	Lorena J & Earl J. Cline	151	517	175.37	0.007	175.363	7	

COMPLETION DATE 1-24-68			Sheet
Revised	Revision Description	By	
			7
			7

LEGEND FOR PROJECT-AVERAGE RESULTS OF TESTS- 25 SAMPLES TESTED

DESCRIPTION	H.R.B. CLASS	S.H.T.L. CLASS	% AGG.	% C. SAND	% F. SAND	% SILT	% CLAY	LIQUID LIMIT	PLASTICITY INDEX	WATER CONTENT	SAMPLES TESTED
BERM MATERIAL		7	CLASSIFIED BY VISUAL INSPECTION								
SILT	A-4(8)	8	0	7	19	51	23	27	7	19	2
SANDY SILT	A-4(A)	9	6	13	24	33	24	25	7	17	15
TOP SOIL		10	CLASSIFIED BY VISUAL INSPECTION								
SILT & CLAY	A-5(9)	11	2	8	18	35	37	35	13	17	4
CLAY & SILT	A-6(10)	15	2	3	9	44	42	38	15	21	4
SANDSTONE			CLASSIFIED BY VISUAL INSPECTION								
SHALE			CLASSIFIED BY VISUAL INSPECTION								
AUGER BORING PLOTTED TO VERTICAL SCALE ONLY											
EXISTING PAVEMENT											

WATER CONTENT NEARLY EQUAL TO OR GREATER THAN THE LIQUID LIMIT
 NOTE: FIGURES BESIDE BORINGS INDICATE MOISTURE CONTENT IN PERCENT

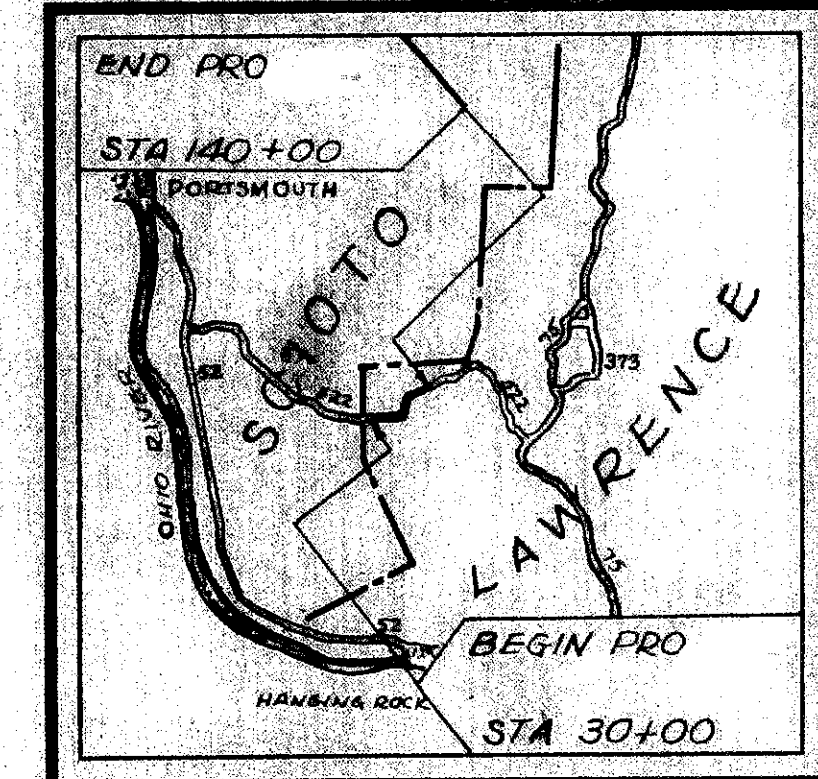
SAMPLES TESTED
 LAB. NOS. SO. 82565-82589 INCL.
 MOISTURE DENSITY SAMPLE LAB. NO. SO. 82589

SOIL PROFILE LAWRENCE COUNTY

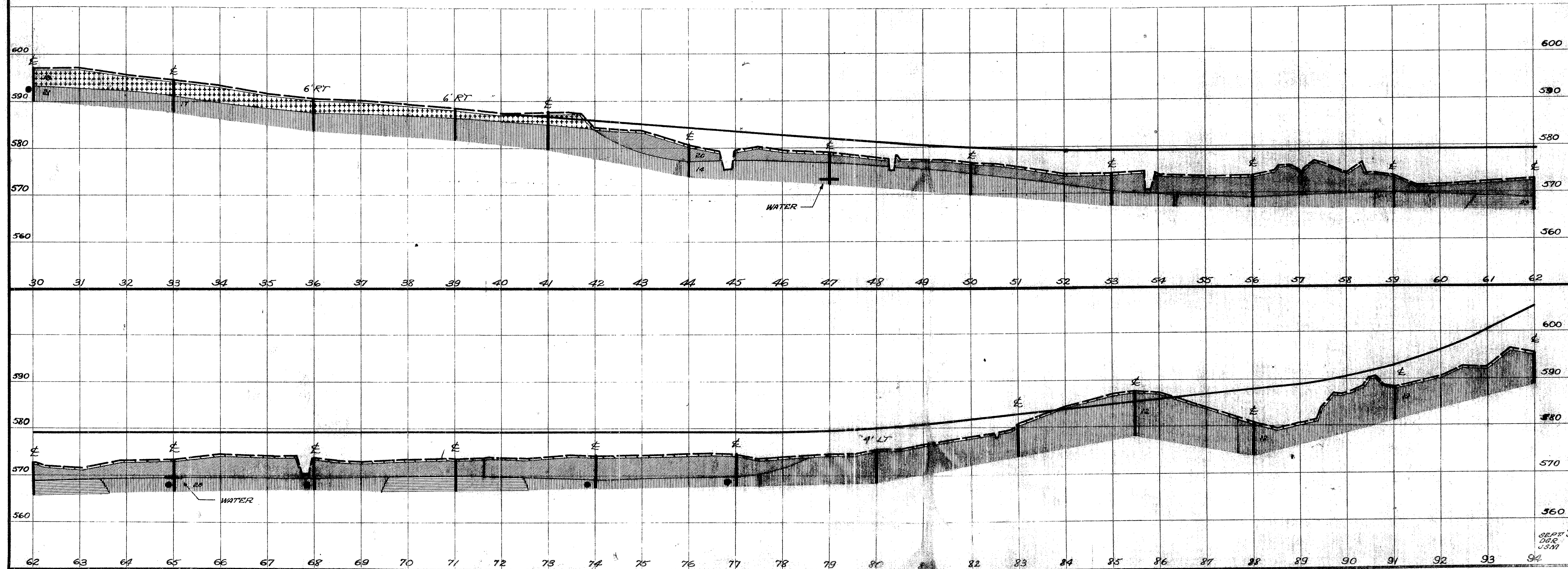
LAW-522-
STATE HIGHWAY TESTING AND
RESEARCH LABORATORY
O. S. U. CAMPUS, COLUMBUS, OHIO

NOTE: THE INFORMATION SHOWN BY THIS SUB-
GRADE PROFILE WAS SECURED FOR THE INFOR-
MATION OF THE STATE OF OHIO. THE STATE DOES
NOT GUARANTEE THE CORRECTNESS THEREOF AND
DOES NOT INCLUDE IT AS A PART OF THE PLANS
GOVERNING THE CONSTRUCTION OF THE PROJECT.

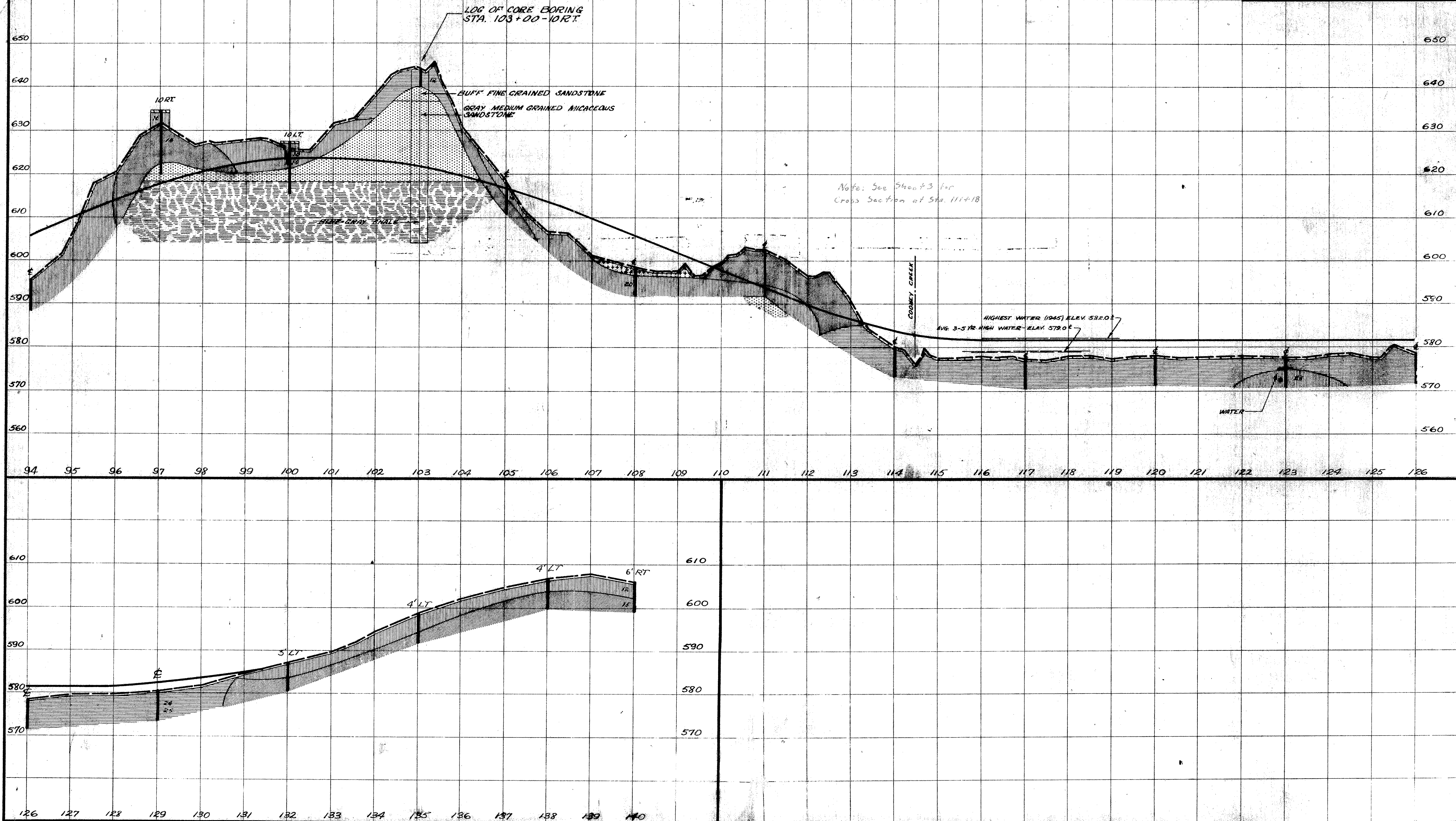
FED. NO. S-766



LOCATION MAP



SEPT 51
DGR
JSM



LEGEND FOR PROJECT-AVERAGE RESULTS OF TESTS 5 SAMPLES TESTED

DESCRIPTION	HRB CLASS	SHTL CLASS	% AGG	% C. SAND	% F. SAND	% SILT	% CLAY	LIQUID LIMIT	PLASTICITY INDEX	WATER CONTENT	SAMPLES TESTED
SAND	A-2-4(2)	4	3	24	43	11	19	0	0	14	1
SANDY SILT	A-4(2)	9	0	16	39	18	27	22	7	16	1
SILT & CLAY	A-6(9)	11	0	2	3	51	44	33	12	13	1
CLAY & SILT	A-6(10)	15	6	12	10	31	41	35	17	8	1
CLAY	A-7-6(14)	16	0	6	9	27	58	46	22	19	1
SANDSTONE		23		CLASSIFIED BY VISUAL INSPECTION							
SHALE		24		CLASSIFIED BY VISUAL INSPECTION							
TOP SOIL		10		CLASSIFIED BY VISUAL INSPECTION							

AUGER BORINGS - PLOTTED TO
VERTICAL SCALE ONLY

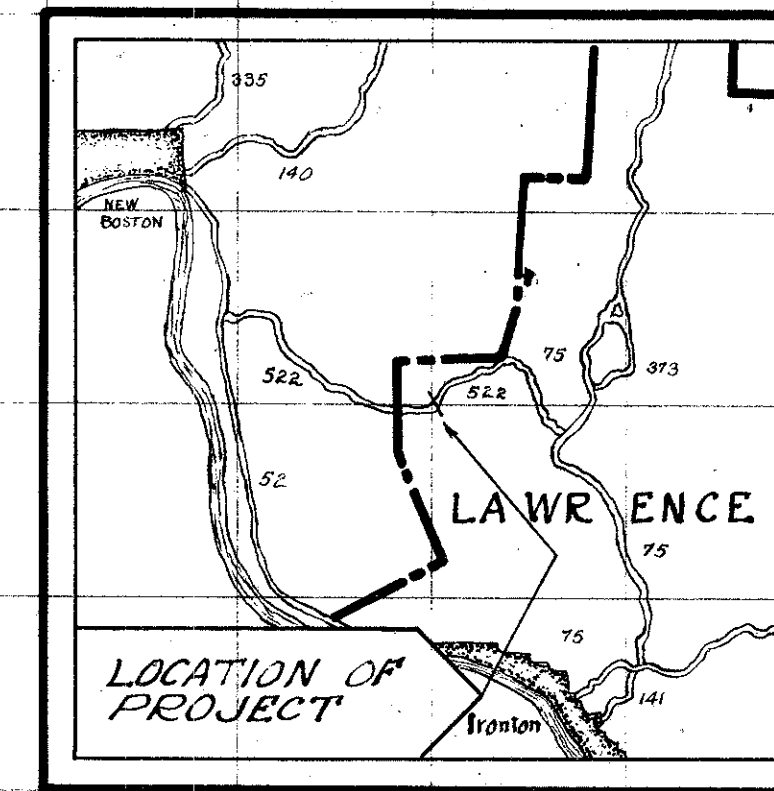
NOTE:
FIGURES BESIDE BORINGS INDICATE
WATER CONTENT IN PERCENT

~SAMPLES TESTED~
LAB. NO'S. SO. 87438 - 87442 INCL.

SOIL PROFILE
LAWRENCE COUNTY
LAW - 522 - 0.75

STATE HIGHWAY TESTING AND
RESEARCH LABORATORY
O. S. U. CAMPUS, COLUMBUS, OHIO

SUPPLEMENT
S-766(3)



LOCATION MAP

