FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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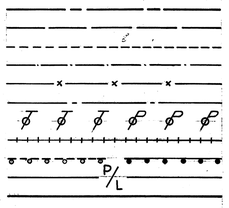
ASHLAND COUNTY
ASD-511-19.16

STATE OF OHIO
DEPARTMENT OF HIGHWAYS

ASD-511-19.16
ASHLAND COUNTY
ORANGE TOWNSHIP
STRUCTURE IMPROVEMENT ~ BRIDGE REPLACEMENT

CONVENTIONAL SIGNS

COUNTY LINE
TOWNSHIP LINE
SECTION LINE
CORPORATION LINE
FENCE LINE
CENTERLINE
POLE LINE (TELEPHONE AND POWER)
RAILROAD
GUARD RAIL (EXISTING AND PROPOSED)
PROPERTY LINE
RIGHT OF WAY



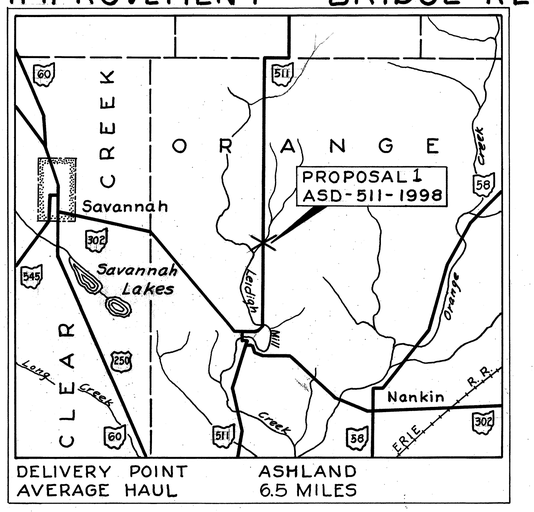
INDEX OF SHEETS

LINE DATA

Begin Project and Work- Sta. 0-25
End Project and Work- Sta. 7+30

Length of Project and Work- 755 Lin. Ft. or 0.142 Miles

APPROVED Harvey Mathewman
DATE 9-6-61 ASHLAND COUNTY ENGINEER



LOCATION MAP

Scale of Miles
1 in. = 1 mi.

PORTION TO BE IMPROVED X
STATE HIGHWAYS
OTHER ROADS

SCALES

PLAN	1" = 20'
PROFILE HORIZONTAL	1" = 20'
PROFILE VERTICAL	1" = 5'
CROSS SECTIONS	1" = 5'

The Standard Specifications of the State of Ohio, Department of Highways, including changes and supplemental specifications listed in the proposal shall govern this improvement. These Standard Specifications are dated January 1, 1961.

The right of way for these improvements 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 to traffic of the highway and provisions for the maintenance and safety of traffic will be as set forth on these plans and estimates.

Approved C. P. Jahn
Date 9-11-61 Division Deputy Director

Approved D. H. Overman
Date 12-7-61 Engineer of Bridges

Approved Jas. Rigg
Date 1-26-62 Engineer of Maintenance

Approved T. Wyo Bamhouse
Date 1-24-62 Deputy Director, Division of Operations

No RR
NBR 3-1-62

Approved Guy E. Hooper
Date 2-13-62 Deputy Director of Planning and Programming

Approved Wm. J. Linn
Date 1-31-62 Deputy Director of Right of Way

Approved Wm. A. Berry
Date 2-13-62 First Assistant Director

Approved E. L. Preston
Date 2-13-62 Director of Highways

SUPPLEMENTAL PRINTS OF STANDARD CONSTRUCTION DRAWINGS							
G-7.07	6-1-56	T-35	1-2-56				
DR-1	1-3-55	RI-1	7-15-58				
L-3	4-1-50	I-15 No 1	11-15-60				
I-1	11-15-60	L-1	4-1-50				
I-15-No.2A	8-17-60	L-3A	4-1-50				
CS-1-54 Sht #1	7-16-56						
SB-1-47	1-20-48						

SUPPLEMENTAL SPECIFICATIONS			

FILE Nº	ASHLAND COUNTY, ASD-511-19.16
108-A	DATE OF LETTING
	CONTRACT Nº

FED. RD. DIVISION	STATE	PROJECT		2 / 6
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Bridge No. Asd-511-1998 Sec. Asd 511-1916
Ashland County

Item L-9 Seeding and protecting roadway areas

Quantities for seeding are calculated for the areas between lines 10' outside the work limits as shown on the plans and cross sections or the right of way line if such line is less than 10' from the work limits. All areas outside these limits where the vegetative cover has been disturbed or destroyed during the construction shall be restored and seeded in conformance with the provisions of Item L-9 by the Contractor at his own expense.
The following seed mixture shall be applied at the rate of 3 lbs. per 1000 sq.ft.

Creeping red fesque	70%
Kentucky bluegrass	25%
Alsike clover	5%

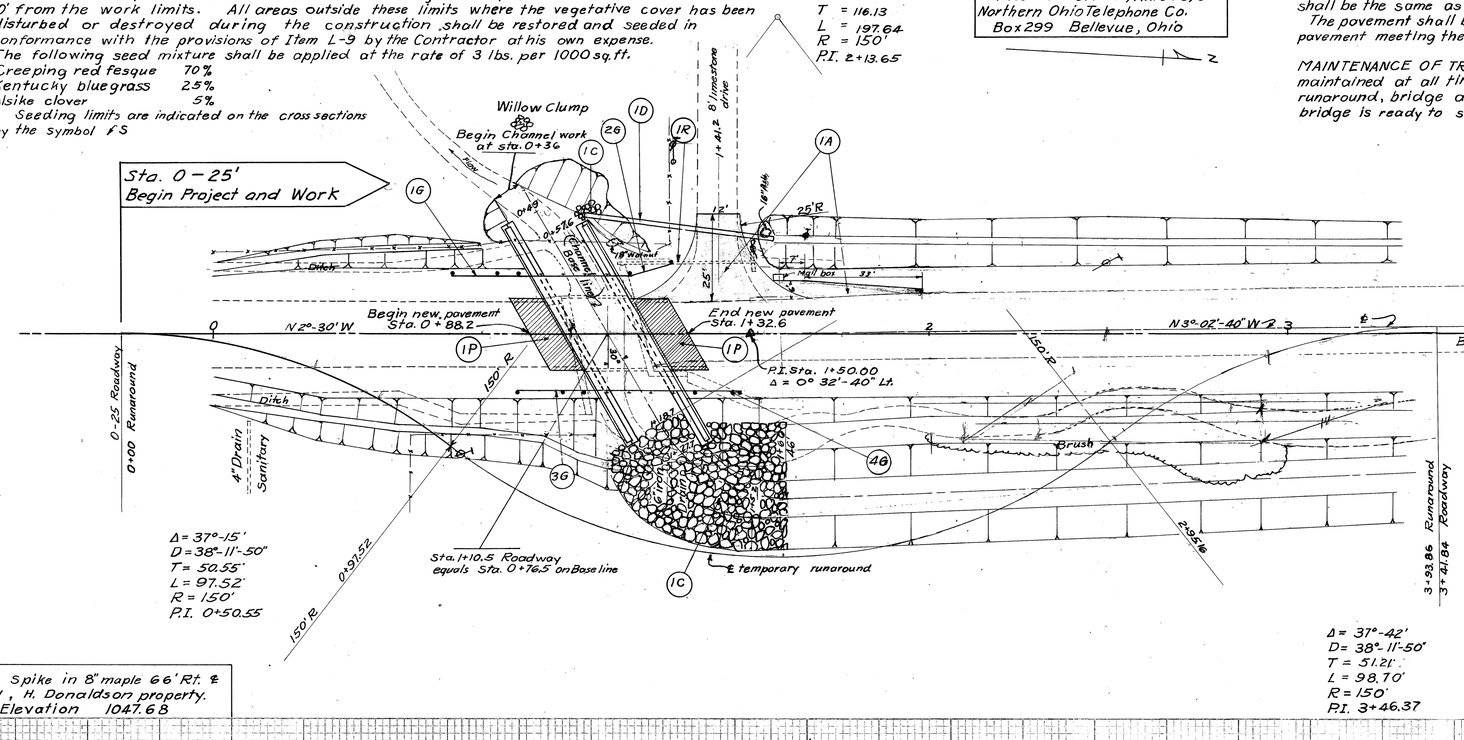
Seeding limits are indicated on the cross sections by the symbol F S

UTILITIES
Ohio Edison Co.
47 North Main St., Akron 8, O.
Northern Ohio Telephone Co.
Box 299 Bellevue, Ohio

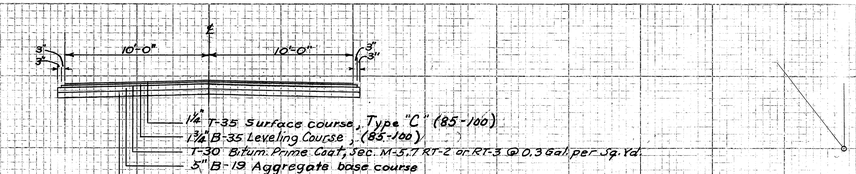
PROPOSED TEMPORARY RUNAROUND

The profile grade of the temporary runaround shall be the same as the existing pavement.
The pavement shall be Class "B" Asphaltic concrete pavement meeting the requirements of Sec. S-15.06.

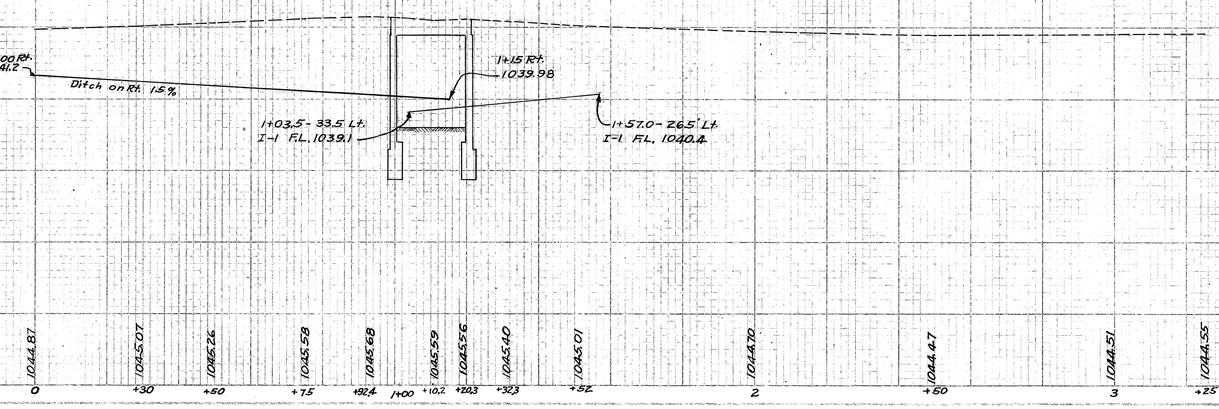
MAINTENANCE OF TRAFFIC: two way traffic shall be maintained at all times by the use of Item S-15 temporary runaround, bridge and approaches until the new bridge is ready to sustain traffic.



B.M. Spike in 8" maple 66' Rt. ℄ SR. 511, H. Donaldson property.
Elevation 1047.68



Typical section of roadway pavement replacement at ends of bridge.



E-9 TREE REMOVAL

Station	Size	Kind	
1+55 Lt	16"	Ash	1 Each
1+12 Lt.	18"	Walnut	1 Each
4+96 Rt.	18	Walnut	1 Each

* Backfill with Granular Material as per Sec. I-1.07, Class 1

Ref. No.	Station	I-1 18" Plain Corr. metal pipe for driveways *Class F	E-12 18" Corr. metal pipe removed	I-15 Guard rail	B-19 Aggregate Base Course Cu. yds. 5"	B-35 Leveling course 1¾"	T-35 Surface Course 1¼"	T-30 Bit. prime coat 0.3 gal per sq.yd.	I-22 Subbase 5"	I-10. Dumped rock chan. protection 12"
1G	0+67.5 Lt. to 0+89.81 Lt.			22.31 lin ft.						
2G	1+12.11 Lt. to 1+30.00 Lt.			17.89 lin ft.						
3G	0+84.0 Rt to 1+08.29 Rt.			24.29 lin. ft.						
4G	1+30.59 Rt. to 1+46.50 Rt.			15.91 lin. ft.						
1R	1+13 Lt. to 1+53 Lt.		40 lin. ft.							
1D	1+03 Lt. to 1+57 Lt.	54 lin. ft.								
1A	1+41.2 Lt. L=25'				13.5 c.y.					
1P	0+88.2 to 0+89.3 & 1+25 to 1+32.6				7.1 c.y.	2.4 c.y.	1.6 c.y.	15 gal.	7.1 c.y.	
1-C	1+18.7 to 1+60 Rt.									51 c.y.
2-C	5+00 to 5+70 Rt.									20 c.y.
	Totals	54 lin. ft.	40 lin. ft.	80.40 lin. ft.	20.6 c.y.	2.4 c.y.	1.6 c.y.	15 gal.	7.1 c.y.	71 c.y.

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ASHLAND COUNTY
ASD-511-19.16

FED. RD. DIVISION	STATE	PROJECT		3 / 6
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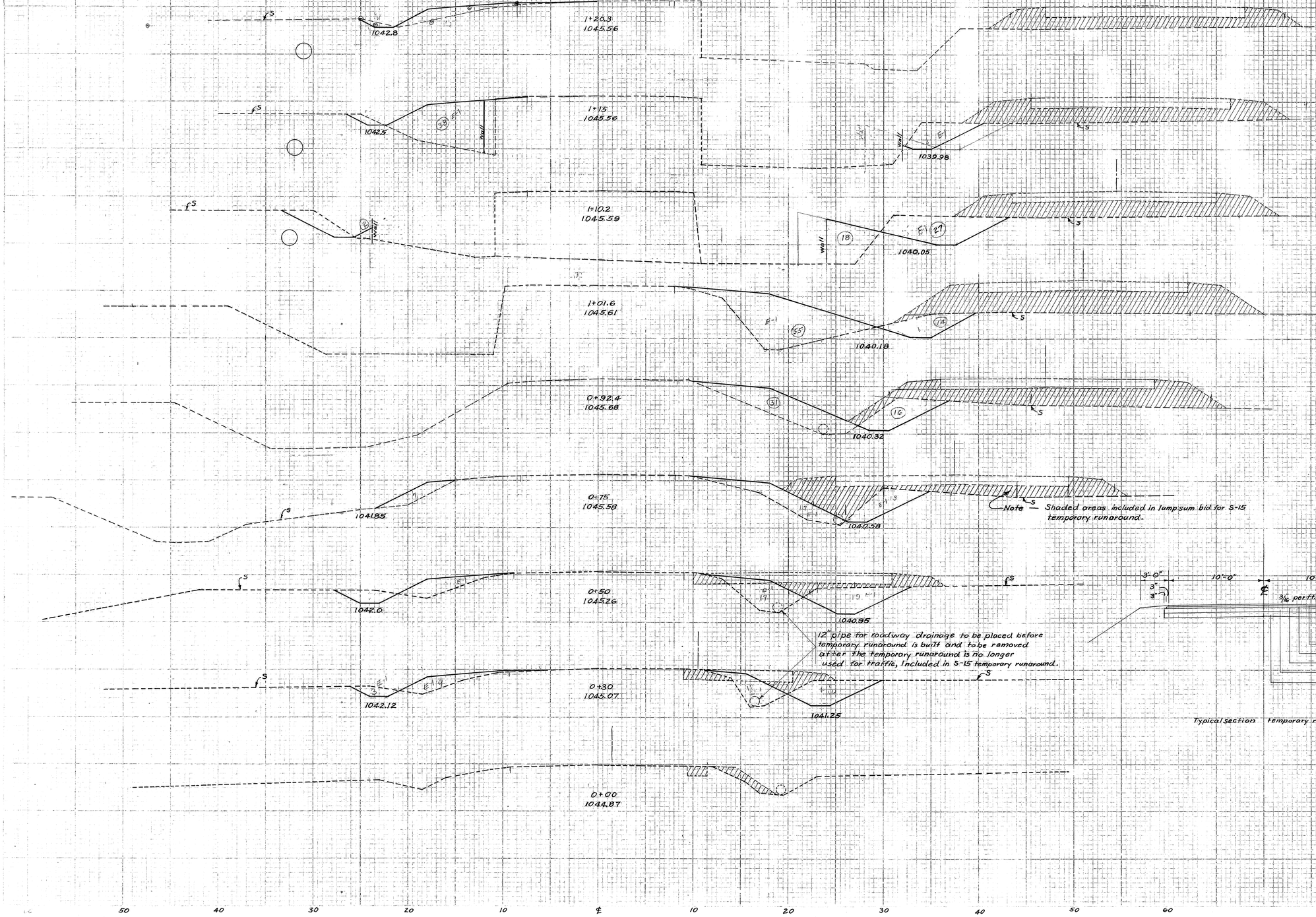
Bridge No. Asd 511-19.98 Sec. Asd 511-19.16
Ashland County



Typical section temporary runaround, Class B.

E-1 Roadway

	END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
1+30	0	0	0	2
	2	13		
			2	5
	15	38		
			4	5
	32	20		
			7	12
	14	55		
			5	15
	16	31		
			9	18
	13	24		
			16	22
	21	24		
			15	20
	19	31		
			11	17
	0	0		
Sheet total E-1			69	116

FED. RD. DIVISION	STATE	PROJECT		4
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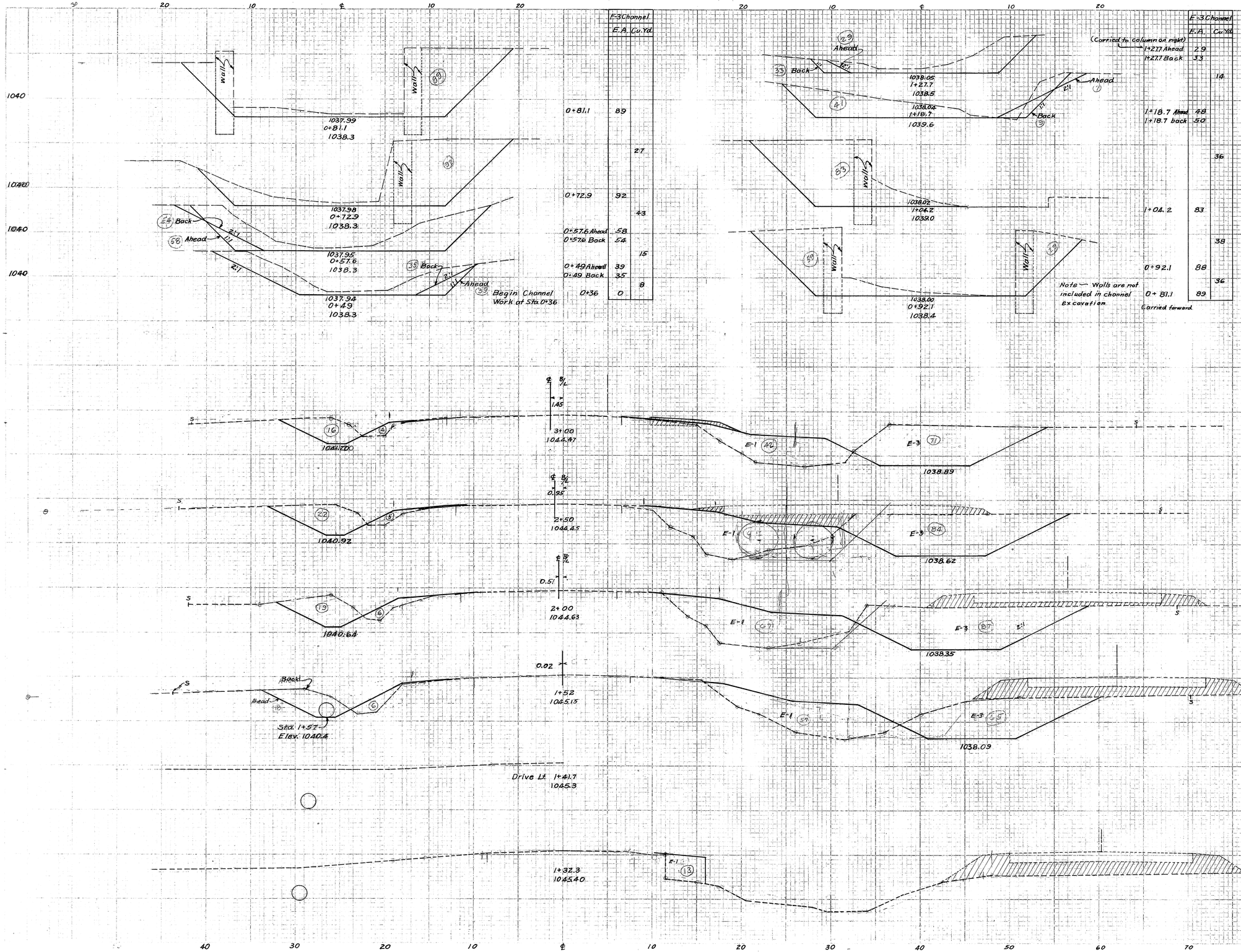
Bridge No. Asd-511-1998 Sec. Asd-511-19.16
Ashland County



FED. RD. DIVISION	STATE	PROJECT	
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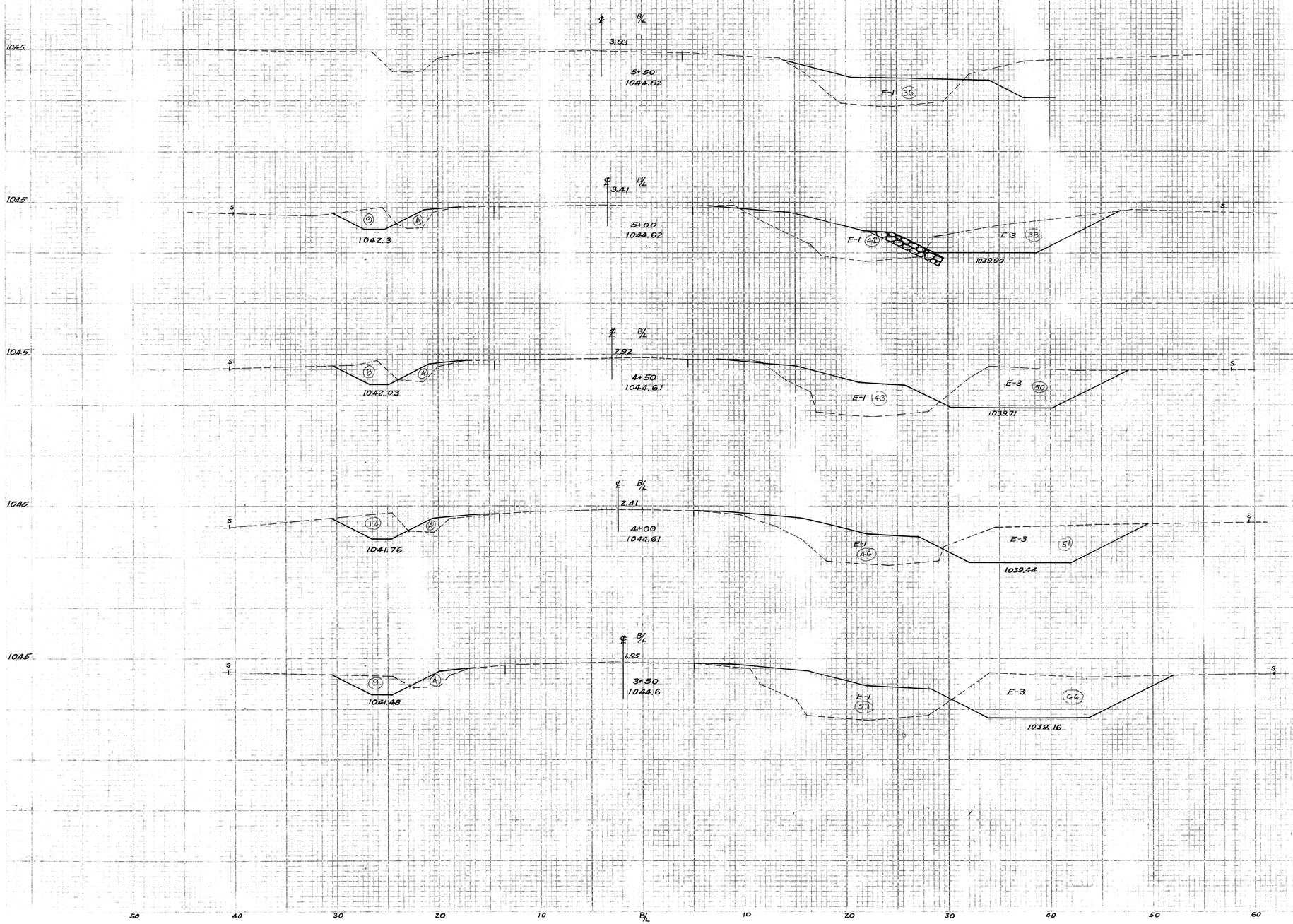
ASHLAND COUNTY
ASD-511 - 19.16



E-1 Roadway

	END AREA		CU. YDS.		Channel E-3	
	CUT.	FILL	CUT	FILL	E.A.	CU YD.
Carried to Sheet 4-B 5+50	0	36				
			8	76		
	9	46			Carried to Sheet 4C	38
			16	86		82
	8	47				50
			18	90		93
	12	50				51
			19	104		108
	9	63				66
			23	101		127
3+00	16	46				71
Sheet totals			84	457		410

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

4-B
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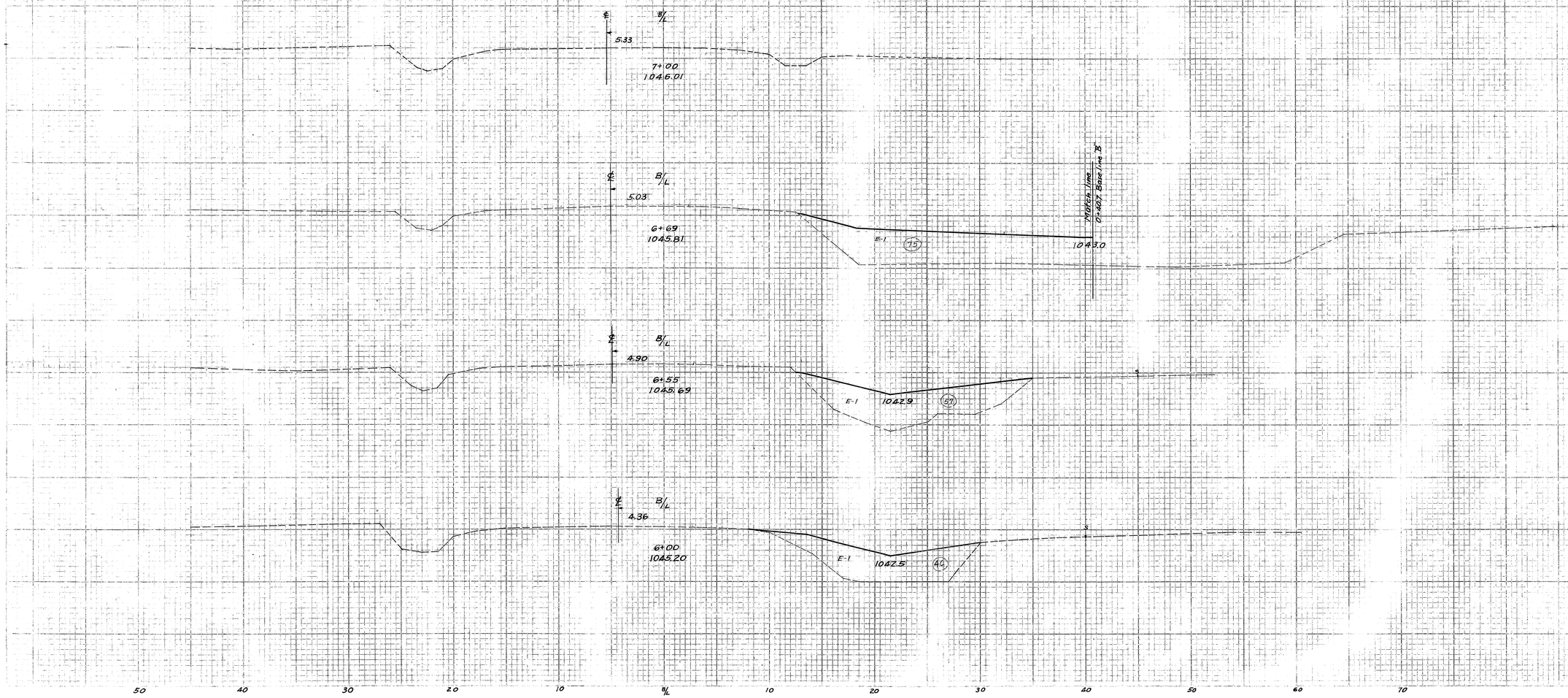
ASHLAND COUNTY
ASD-511 - 19.16



E-1 Roadway

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
6+96	0	0	
			0 38
		0	75
			0 34
		0	57
			0 105
		0	46
			0 76
5+50	0	36	
Sheet totals		0	253

FED. RD. DIVISION	STATE	PROJECT	
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4-C
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ASHLAND COUNTY
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Channel
E-3

E.A.	C.Y.
7+50	0
	14
	19
	11
	36
1045	
	50
	72
1045	
	67
	73
1045	
	135
	73
1045	
	128
	65
1045	
	50
	42
1045	
	37
5+00	38

1045
1041.35
7+50
1045.2

4.0
19
1041.12
7+11
1042.2

3.8
36
1041.08
7+00.22
1045.1

3.3
72
1040.94
6+75
1044.9

2.9
73
1040.80
6+50
1044.8

1.9
73
1040.53
6+00
1044.6

1.0
65
1040.26
5+50
1044.1

12" Dumped Rock
Channel protection

0.5
42
1040.13
5+25
1043.7

Baseline of Channel

30 20 10 0 10 20 Sheet total 492

1+79
1041.8

20 10 0 1/2 1.0

E-1
Roadway

E.A.	C.Y.
1+70	0
	9
	33
	82
	125
	204
	190
	76
	85
	127
	104

1043.0
33

1044.5
125
1+27

1045.0
190
0+92

1044.5
85
0+77

1044.0
104
0+40.7

90 80 70 60 50 40 30 20 10 Sheet total 498

FED. RD. DIVISION	STATE	PROJECT	
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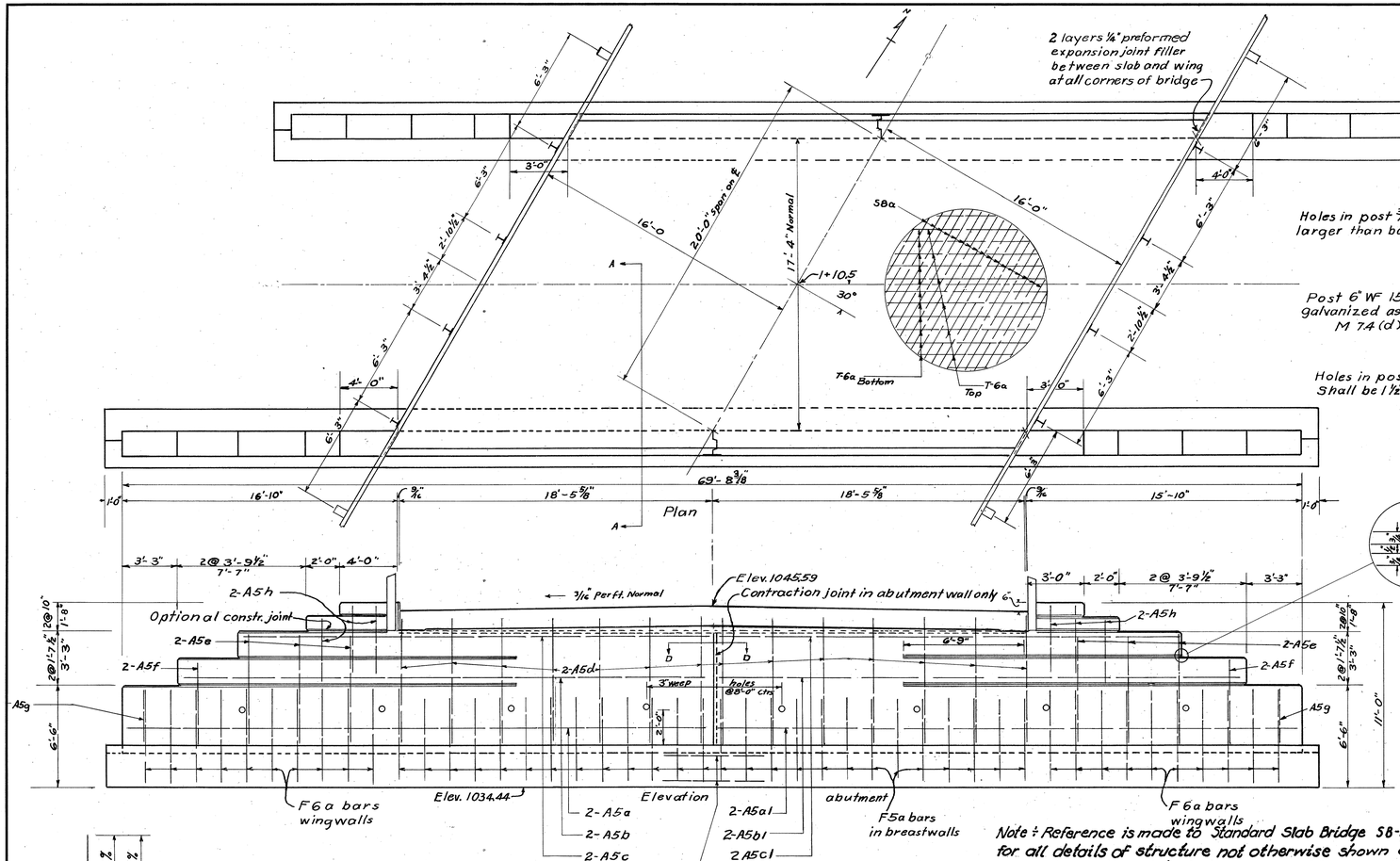
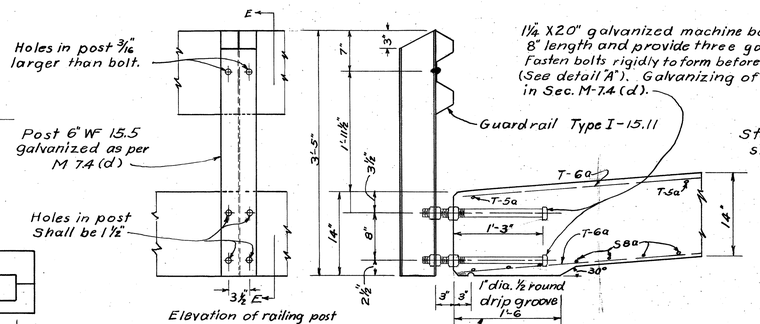
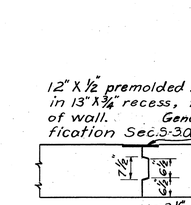
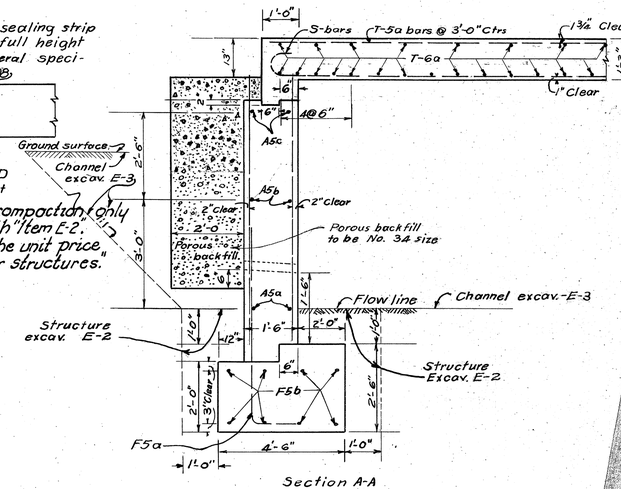
Bridge No. Asd-511-1998 Sec. Asd. 511-19.16
Ashland County

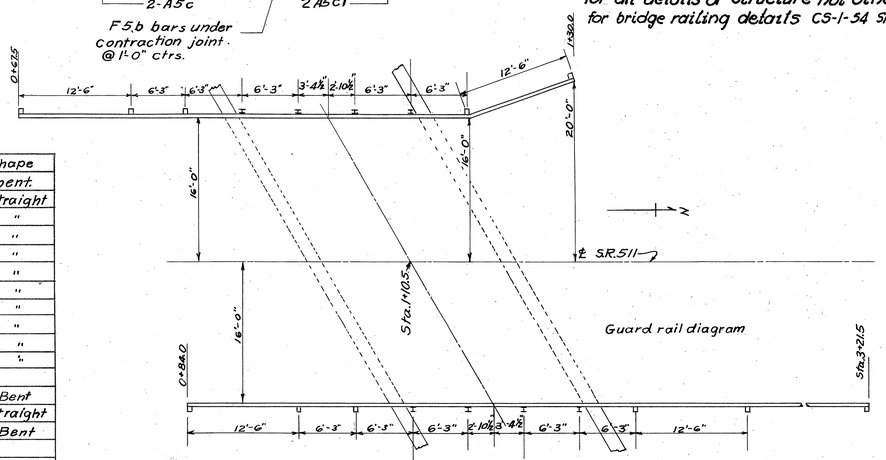






Note: Roadway backfill and compaction only shall be made in accordance with "Item E-2". Payment to be included under the unit price bid for "Item E-2 Excavation for Structures."





Replacement bars will not be required if reinforcing bars are fabricated from stock which has previously been tested and approved by the Ohio Highway Testing Laboratory, and test samples as provided in Sec. S-4.02 need not be furnished.

Steel List

No.	Mark	Size	Length	Weight	Spacing	Location	Shape
67	S8a	1"ϕ	24'-1"	4308	5 3/4"	Slab	bent
11	T-5a	5/8"ϕ	21'-10"	250	3'-0"	Slab	straight
44	T-6a	3/4"ϕ	36'-5"	2407	6"℄ 9"	"	"
4	A-5a	5/8"ϕ	34'-10"	145	As shown	Walls	"
4	A-5b	5/8"ϕ	31'-7"	132	" "	"	"
4	A-5c	5/8"ϕ	27'-9"	116	" "	"	"
52	A-5d	5/8"ϕ	7'-7"	411	3'-0"	"	"
24	A5e	5/8"ϕ	6'-7"	165	3'-0"	"	"
8	A5f	5/8"ϕ	5'-0"	42	3'-0"	"	"
4	A5g	5/8"ϕ	3'-7"	15	3'-0"	"	"
24	A5h	5/8"ϕ	4'-0"	100	As shown	"	"
52	F5a	5/8"ϕ	5'-6"	298	1'-6"	footing	Bent
16	F5b	5/8"ϕ	6'-0"	100	1'-0"	footing	Straight
40	F6a	3/4"ϕ	6'-2"	371	1'-6"	footing	Bent
1	R5a	5/8"ϕ	5'-7"	—		Replacement	
1	R6a	3/4"ϕ	5'-11"	—		Replacement	
1	R8a	1"ϕ	6'-6"	—		Replacement	
4	A5a1	5/8"ϕ	33'-10"	141	As shown	Walls	Straight
4	A5b1	5/8"ϕ	30'-7"	127	" "	"	"
4	A5c1	5/8"ϕ	26'-9"	111	" "	"	"
			Total	9239 lbs.			

Estimated Quantities — Structure

E-2	Cofferdams, cribs and sheeting	Lump sum	
E-2	Excavation for structures	104	cu.yd.
E-3	Channel excavation	1382	Cu. yd.
S-1	Concrete for structures, superstructure Class "C"	32.6	cu.yd.
S-1	Concrete for structures, walls, Class "E"	56.4	cu.yd.
S-1	Concrete for structures, footing, Class "E"	54.4	cu.yd.
S-3	12" X ½ premolded sealing strip	15	lin.ft.
S-4	Reinforcing steel	9239	lbs.
S-9	¼ preformed expansion joint filler (Bituminous type.)	16	sq.ft.
S-15	Temporary run-around bridge and approaches	Lump sum	
S-24	Removal of existing structure	Lump sum	
S-14	Railing, steel beam standard type (deep), including galvanized steel posts and hardware	44.6	lin.ft.
S-29	Drainage of structures (Porous Backfill)	54	Cu.yd.
	Roadway		
E-1	Roadway excavation, Method "A"	259	Cu.yd.
E-1	Roadway embankment, Method "A"	1711	Cu.yd.
E-9	Tree removal	3	Each
E-12	18" corrugated metal pipe removed	40	Lin.ft.
B-19	5" aggregate base course	20.6	Cu.yd.
B-35	Asphaltic concrete level course, (85-100)	2.4	Cu.yd.
T-30	Bituminous prime coat, Sec. M-5.7, RT-2 or RT-3	15	Gal.
T-35	Asphaltic concrete surface course, Type "C", (85-100)	1.6	Cu. yd.
I-1	18" plain corrugated metal pipe for driveways, Sec. 19-6.4(a), Class F	54	Lin.ft.
I-10	12" Dumped rock channel protection	71	Cu. yd.
I-15	Guard rail, steel beam standard type (deep)	80.40	Lin.ft.
I-22	Subbase	7.1	Cu. yd.
L-3	Seeding and protecting, as per plan	5335	Sq. yd.
L-9	Commercial fertilizer (12-12-12)	0.49	Ton

PROPOSED STRUCTURE

Type - Standard slab bridge
Size - Span 20'-0" on ℄, Height H= 11'-8"
Roadway - 32'-0" between guard rails
Skew - 30°-0" Right forward.
Loading - S-15-45
Wearing Surface - Monolithic

EXISTING STRUCTURE

Type - Steel beam with strip floor & bituminous wearing surface.
Size - Span -17'-6", width 19'-8" between wheel guards.
Skew - 14°37' Right forward
Condition - Poor
Posted - 45% L.L. Reduction
Drainage area - 2.4 sq. miles

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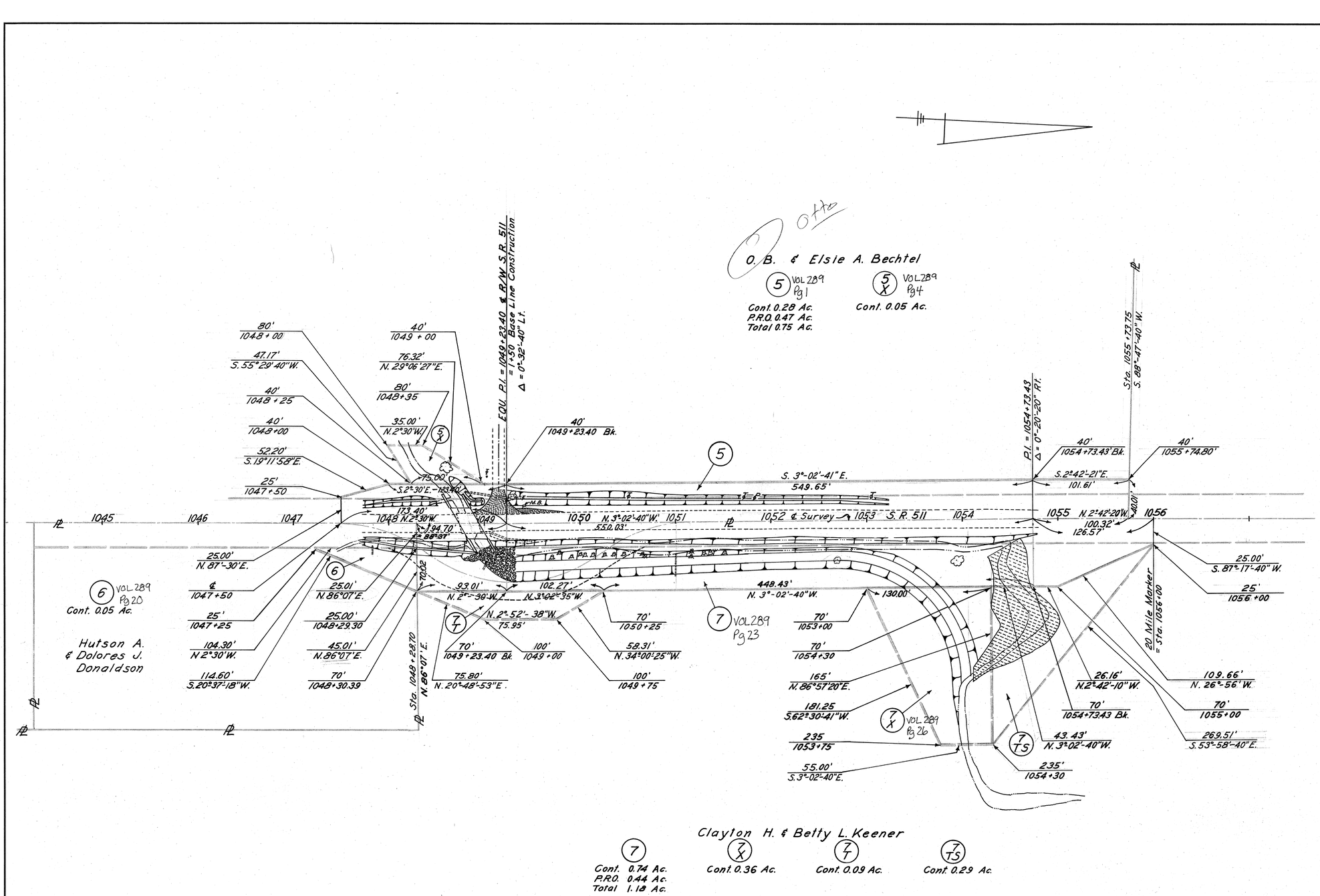
ASD-511-19.16, Structure No. 1998
RIGHT OF WAY PLANS
SCALE : 1"=50'

R/W SHOWN ON THIS PLAN SECURED BY EASEMENTS OR APPROPRIATION.



Orange Twp., Sec. 17, T. 23N, R. 16W.

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ASD-511-19.16, Str. No. 1998, R/W, 1/1