

FED. RD. DIST. NO.	STATE	FED. AID. PROJECT	FISCAL YEAR
10	OHIO		

1/46

SH.(I.C.H.) 288 SEC. 50. AMHERST + SEC. F LORAIN CO.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS

MILAN-ELYRIA ROAD

SH. (I.C.H.) 288 SEC. "SO. AMHERST" & SEC. "F" PET. NO. 6886

LORAIN COUNTY

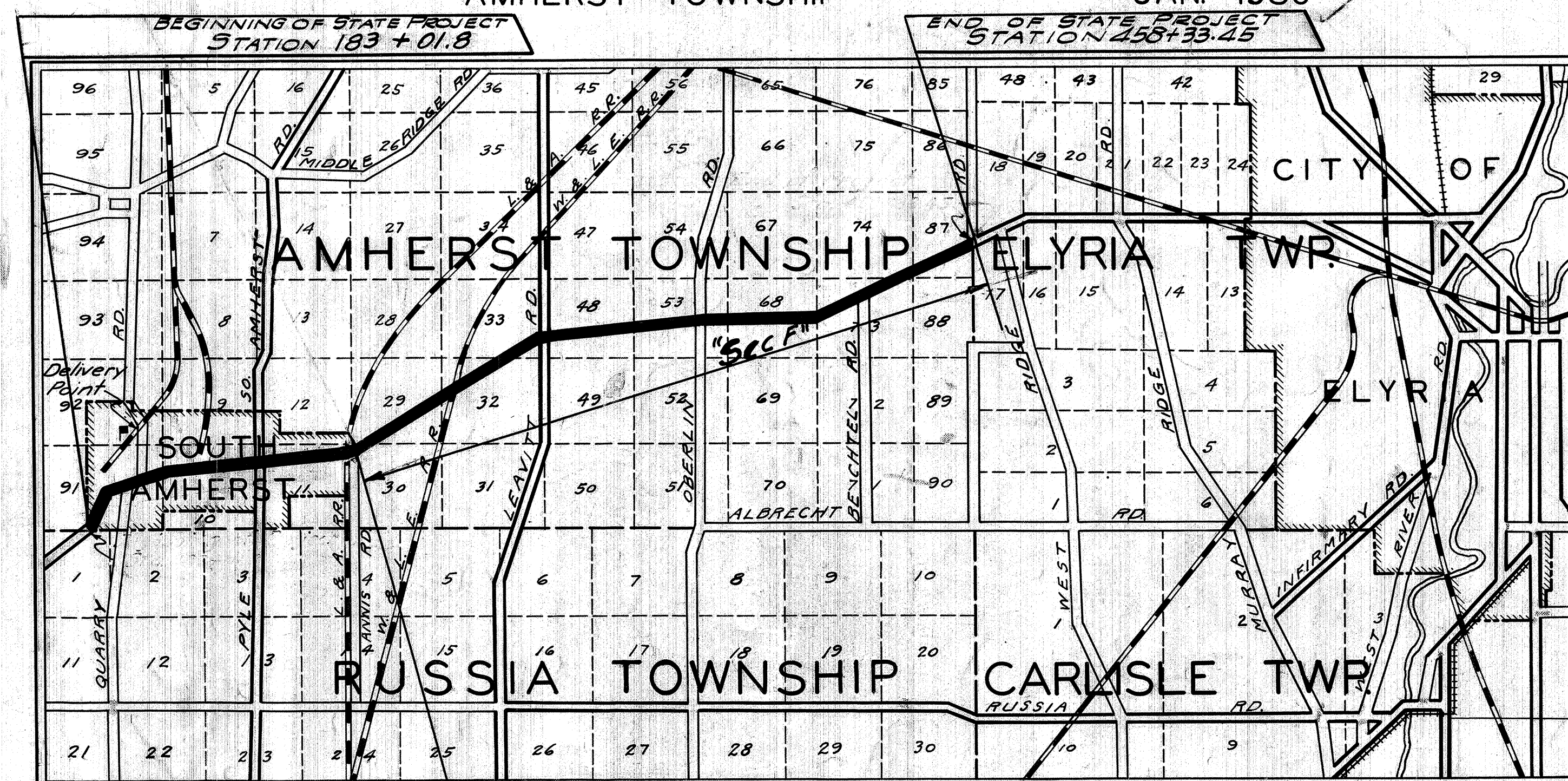
AMHERST TOWNSHIP JAN. 1930

CONVENTIONAL SIGNS

- State line
- County line
- Township line
- Section line
- Property line not fenced
- Center Line
- City or Village Line
- Fence
- Telephone or Telegraph
- Steam Railroad
- Electric Line
- Guard Rail
- Drain Pipe - old
- Drain Pipe - new

We the Commissioners of Lorain County hereby approve these plans and certify that the right of way 66 ft. wide is available for the construction, maintenance and repair of the above highway.

Date: _____ County Commissioners



STA. 208+27.96 END OF SEC. 50. AMHERST BEGINNING SEC. F



PORTION TO BE IMPROVED
DETOURS SHOWN THUS
IMPROVED ROADS

Plan	1" = 100'	Title Page	p. 1
Profile Vertical	1" = 10'	Typical Cross Section	p. 2
Profile Horizontal	1" = 100'	Plans and Profile	p. 3-5 #17-23
Cross Sections	1" = 5'	Cross Sections	p. 7-13 #25-39
		Structural Plans	p. 14-15 #40-43
		Summary Sheet	p. 16 # 45-46
		Superelevation Tables	p. 6 # 24
		Realignment Sheet	p. 44
		Proposal Sheet	p. 46-A

The Standard Specifications of the STATE OF OHIO, Department of Highways, in force on date of contract will govern this improvement.

I hereby approve these plans and declare that the making of the improvement will not require the closing to traffic of the highway and that right of way has been provided.

Approved: _____
Date: _____ Resident District Deputy Director

Approved: _____
Date: 3-27-30 Resident Division Deputy director

Approved: Robt. D. Brighton
Date: 4/1/30 Chief Engineer Bureau of Construction

Approved: _____
Date: _____ Chief Engineer Bureau of Maintenance

Approved: J. D. Burke
Date: 4-2-30 Chief Engineer Bureau of Bridges

Approved: _____
Date: 4-2-30 Chief Engineer First Assistant Director.

Approved: Robert Wood
Date: 4-2-30 State Highway Director.

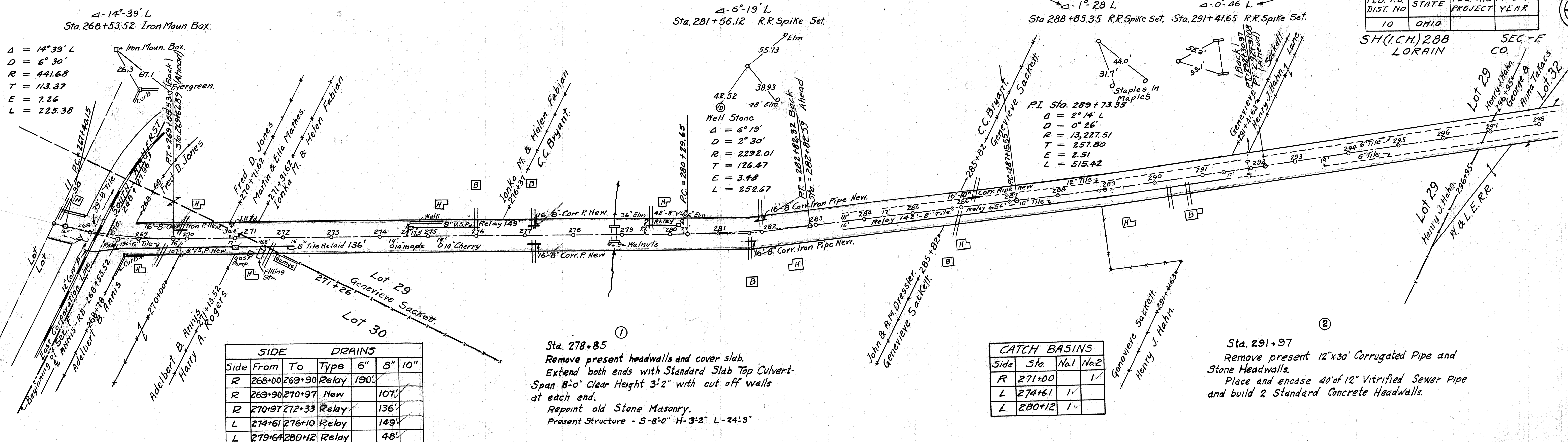
CONSTRUCTION BUREAU
AUG 25 1935
GROUND PHOTOLAB

Supplemental prints of Standard Drawings. No. 96, 98, 100, 300, BC-A, 5CA, RR-A

FED. RD. DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
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17
46

SH(I.C.H.) 288 LORAIN SEC.-F CO.



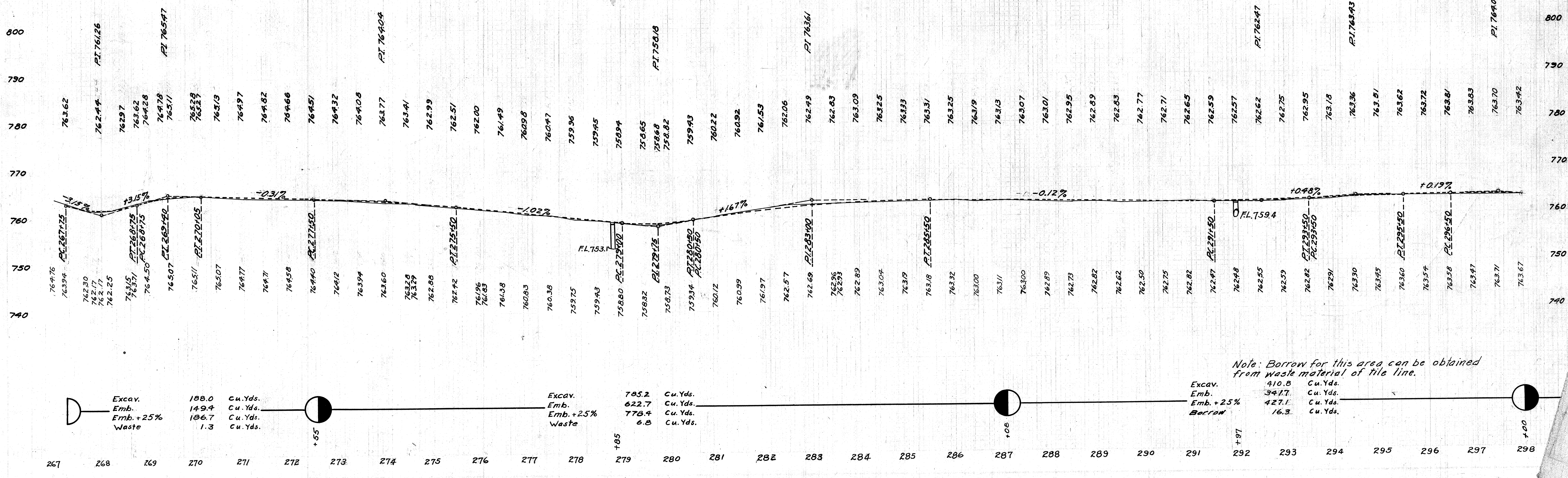
SIDE		DRAINS		
Side	From	To	Type	6" 8" 10"
R	268+00	269+90	Relay	130'
R	269+90	270+97	New	107'
R	270+97	272+33	Relay	136'
L	274+61	276+10	Relay	149'
L	279+64	280+12	Relay	48'
R	283+58	285+00	Relay	142'
R	285+00	291+56	Relay	656'

CATCH BASINS			
Side	Sta.	No.1	No.2
R	271+00	1	1
L	274+61	1	
L	280+12	1	

B.M. Sta. 267+45
Nails in root of Maple R
Elev. 766.61

B.M. Sta. 277+04
Staples in root of Elm-L.
Elev. 761.58

B.M. Sta. 288+97
Staples in root of Maple R
Elev. 763.66



Note: Borrow for this area can be obtained from waste material of tile line.

Excav.	410.8	Cu. Yds.
Emb.	341.7	Cu. Yds.
Emb. + 25%	427.1	Cu. Yds.
Borrow	16.3	Cu. Yds.

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18
46

SH(I.C.H.) 288
LORAIN
SEC-F
CO.

Sta. 299+05
Remove present 12" x 26' Vitrified & Cast Iron Pipe.
Place and encase 54' of 12" Vitrified Sewer Pipe
and build 2 Standard Side Road Headwalls.

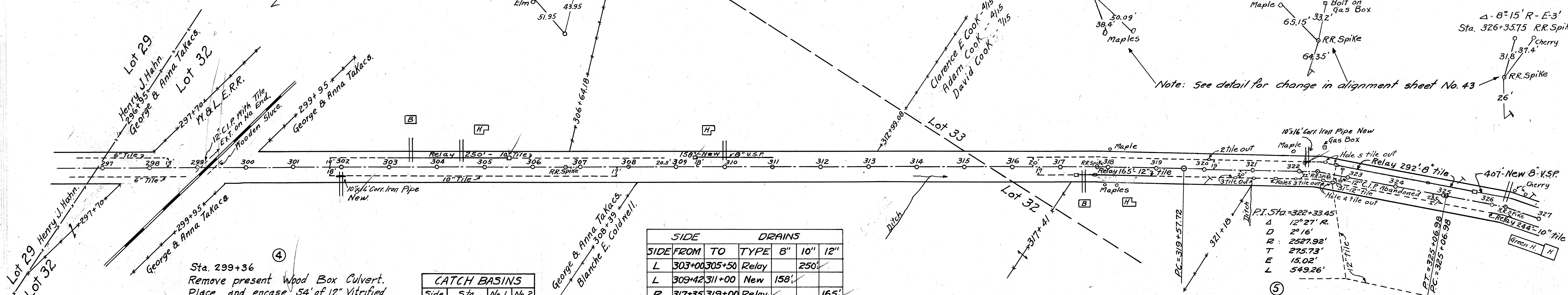
△ 0°-00'
Sta. 306+64.18
R.R. Spike Set.

△ 1°-10' R
Sta. 317+75.15 R.R. Spike Set

R.R. Spike Set.
△ 10°-0' R.
Sta. 322+33.45

△ 8°-15' R-E-3'
Sta. 326+35.75 R.R. Spike Set.

Note: See detail for change in alignment sheet No. 43



Sta. 299+36
Remove present Wood Box Culvert.
Place and encase 54' of 12" Vitrified
Sewer Pipe and build 2 Standard Side
Road Headwalls.
Present Structure 1'x1'x32'
Note: Stas. 299+13.6 & 299+26.4
build 54.6 lin. ft Conc. Header
Detail page 2.

Sta. 322+75
Remove present 12" x 24' Cast Iron Pipe from
Sta. 322+92 and relay at Sta. 322+75. Place 20'
of 12" Sectional Cast Iron Pipe and build two
Standard Concrete Headwalls.

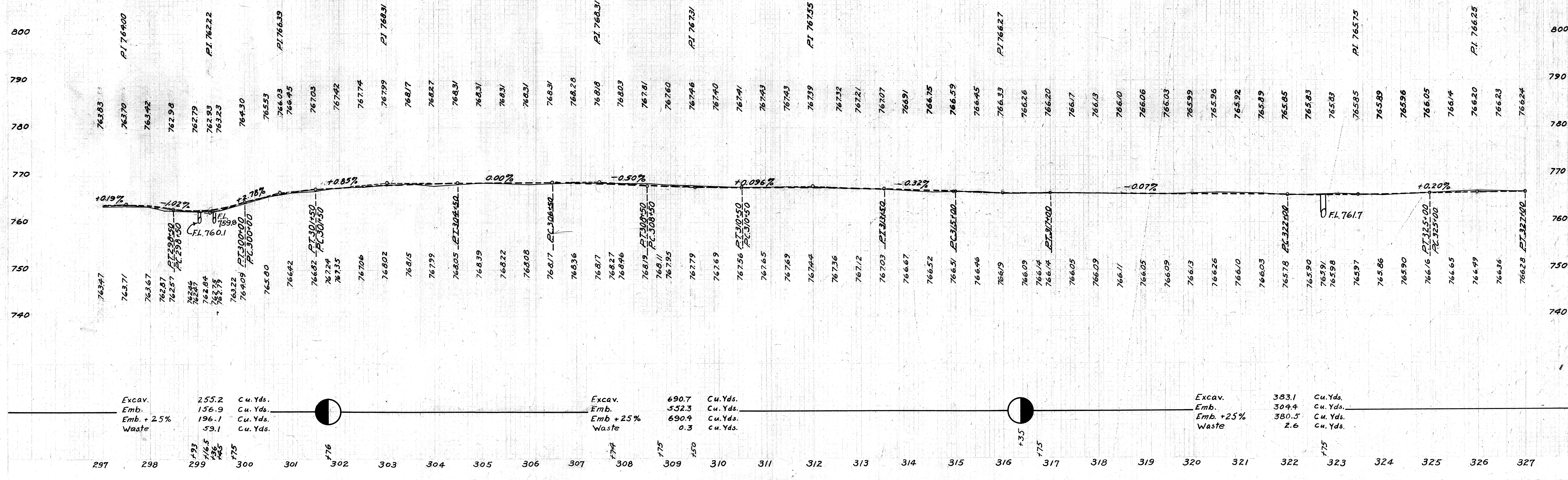
CATCH BASINS			
Side	Sta.	No. 1	No. 2
L	309+42	1	✓
R	317+35	1	✓
L	325+67	1	✓
R	328+44	1	✓
L	305+50	1	✓

SIDE DRAINS			
SIDE	FROM	TO	TYPE
L	303+00	305+50	Relay 250'
L	309+42	311+00	New 158'
R	317+35	319+00	Relay 165'
L	322+75	325+67	Relay 292'
L	325+67	329+74	New 407'

B.M. Sta. 297+30
Staples in root of Oak L
Elev. 763.49

B.M. Sta. 309+76
Staples in root of Maple L
Elev. 768.40

B.M. Sta. 324+40
Staples in root of Maple L
Elev. 766.77



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19
46

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LORAIN SEC-F
CO.

△-3°-57' R Sta. 328+16.15 - R.R. Spike
Cherry O Buckeye
41.33' 31.9'
RR Spike
41.83'
Apple

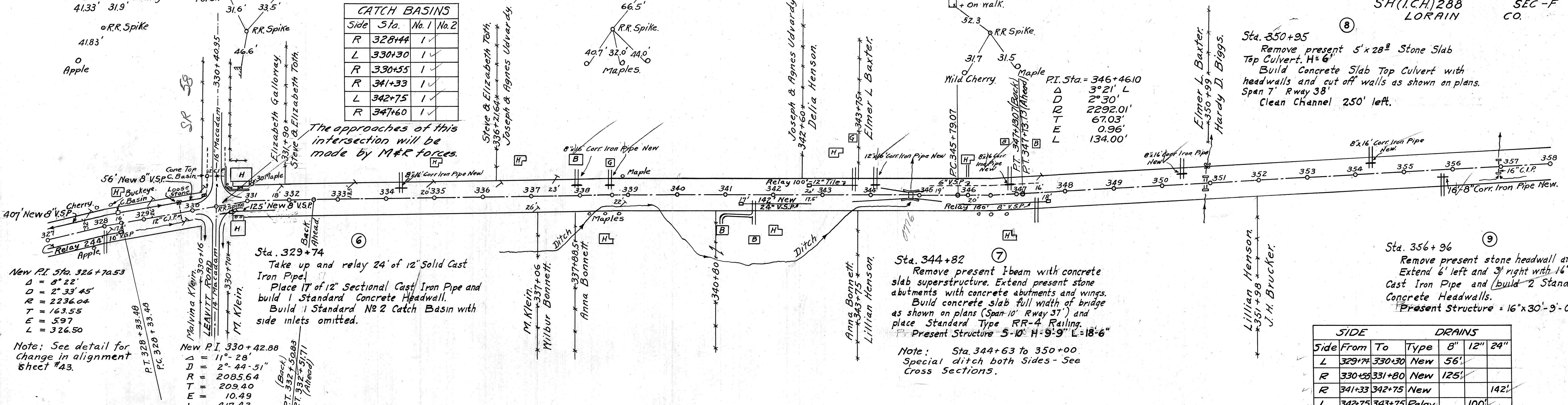
△-8°-56' R Sta. 331+10.85 R.R. Spike Set
Corner Porch
31.6' 33.5'
30' Maple
RR Spike

△-0°-59' R Sta. 338+66.45 - R.R. Spike
Maple
66.5'
RR Spike
40.7' 32.0' 44.0'
Maples

△-3°-21' L Sta. 346+46.1 R.R. Spike Set
On walk.
32.3'
RR Spike
31.7' 31.5'
Wild Cherry Maple

Side	Sta.	No. 1	No. 2
R	328+44	1	
L	330+30	1	
R	330+55	1	
R	341+33	1	
L	342+75	1	
R	347+60	1	

The approaches of this intersection will be made by M&R forces.



New P.I. Sta. 326+70.53
Δ = 8° 22'
D = 2' 33' 45"
R = 2236.04
T = 163.55
E = 5.97
L = 326.50

Note: See detail for change in alignment sheet #43.

New P.I. 330+42.88
Δ = 11° 28'
D = 2° 44' 51"
R = 2085.64
T = 209.40
E = 10.49
L = 417.43

B.M. Sta. 330+80
x on W. end Gas Pump Fdn. R
Elev. 767.50

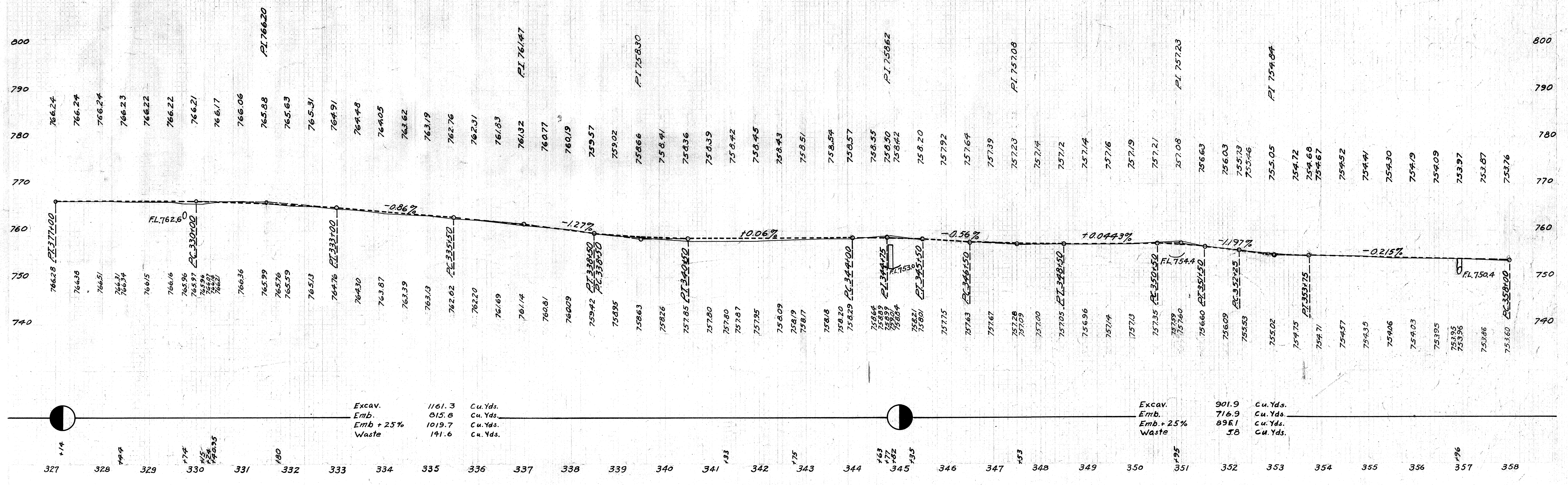
B.M. Sta. 338+90
Staples in root of Maple R
Elev. 759.22

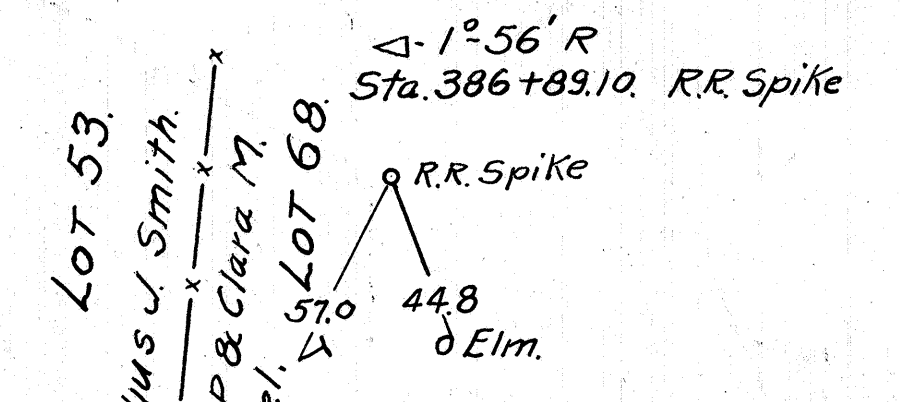
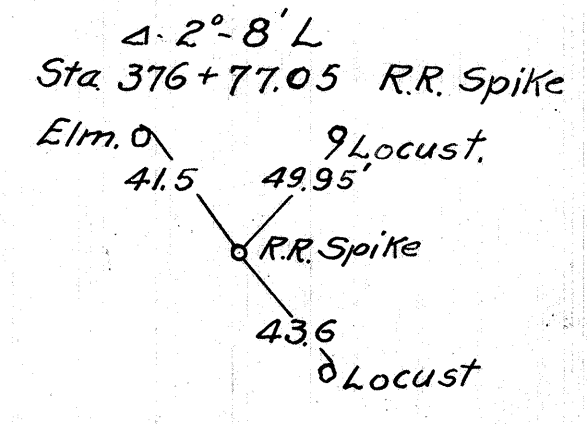
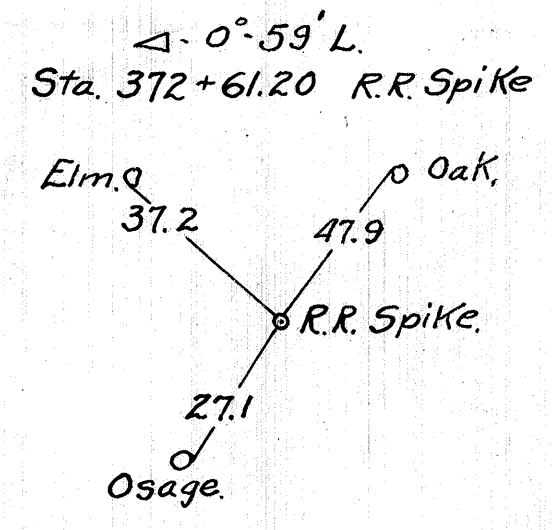
B.M. Sta. 346+46
R.R. Spike in Maple R
Elev. 760.20

Sta. 350+95
Remove present 5'x28" Stone Slab Top Culvert. H=6'
Build Concrete Slab Top Culvert with headwalls and cut off walls as shown on plans.
Span 7' Rwy 38'
Clean Channel 250' left.

Sta. 356+96
Remove present stone headwall at left end. Extend 6' left and 3' right with 16" Sectional Cast Iron Pipe and build 2 Standard Concrete Headwalls.
Present Structure = 16"x30"-9"-C.I. Pipe

SIDE	DRAINS		
	From	To	Type
L	329+74	330+30	New 56"
R	330+55	331+80	New 125"
R	341+33	342+75	New
L	342+75	343+75	Relay 100'
R	346+00	347+60	Relay 160'





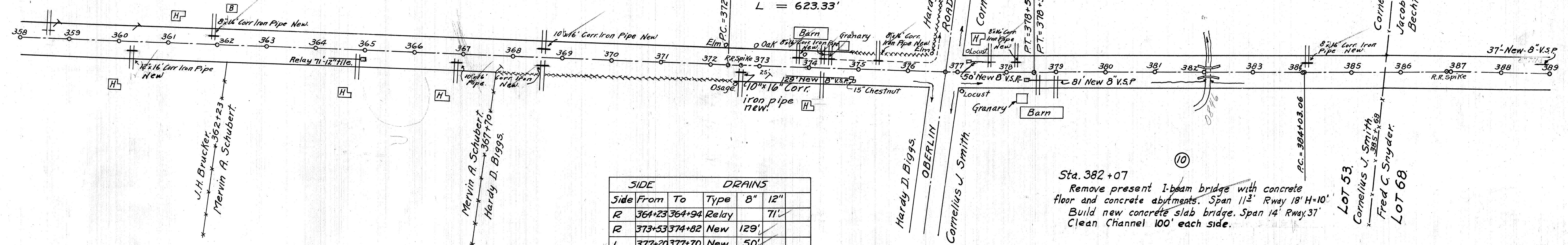
CATCH BASINS

Side	Sta.	No. 1	No. 2
R	364+94	1	✓
R	374+82	1	✓
L	377+20	1	✓
R	378+41	1	✓

New P.I. Sta. = 375+45.95
 $\Delta = 3^\circ 07'$
 $D = 0^\circ 30'$
 $R = 11459.19'$
 $E = 311.75'$
 $T = 4.24'$
 $L = 623.33'$

SIDE	DRAINS			
	From	To	Type	8" 12"
R	364+23	364+94	Relay	71'
R	373+53	374+82	New	129'
L	377+20	377+70	New	50'
R	378+41	379+22	New	81'
L	388+68	390+05	New	37'

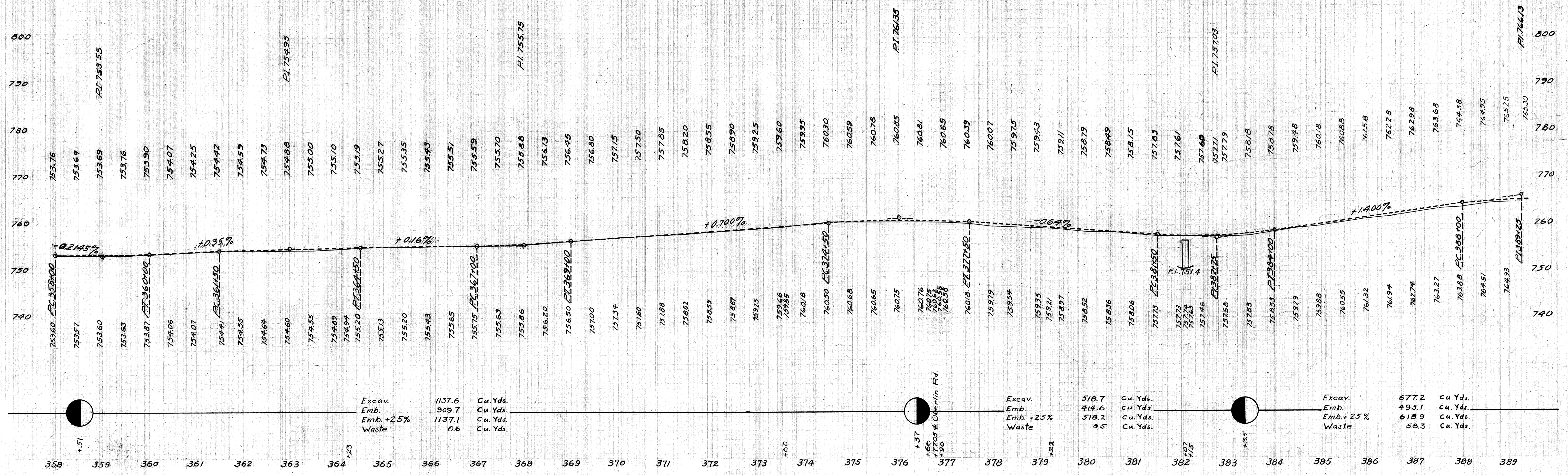
Sta. 382+07
 Remove present I-beam bridge with concrete floor and concrete abutments. Span 113' Rway 18' H=10'.
 Build new concrete slab bridge. Span 14' Rway 37'.
 Clean Channel 100' each side.

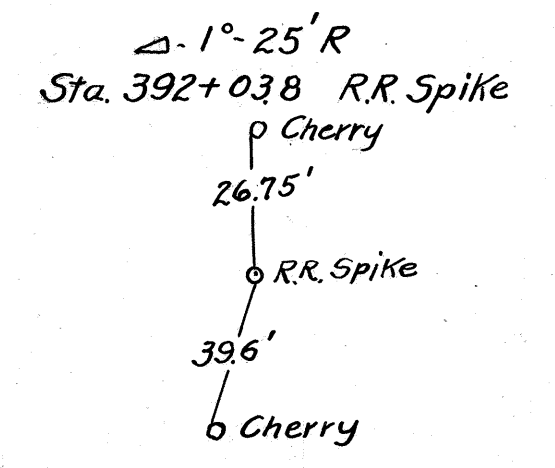


B.M. Sta. 362+12
 Staples in root of Maple R
 Elev. 755.59

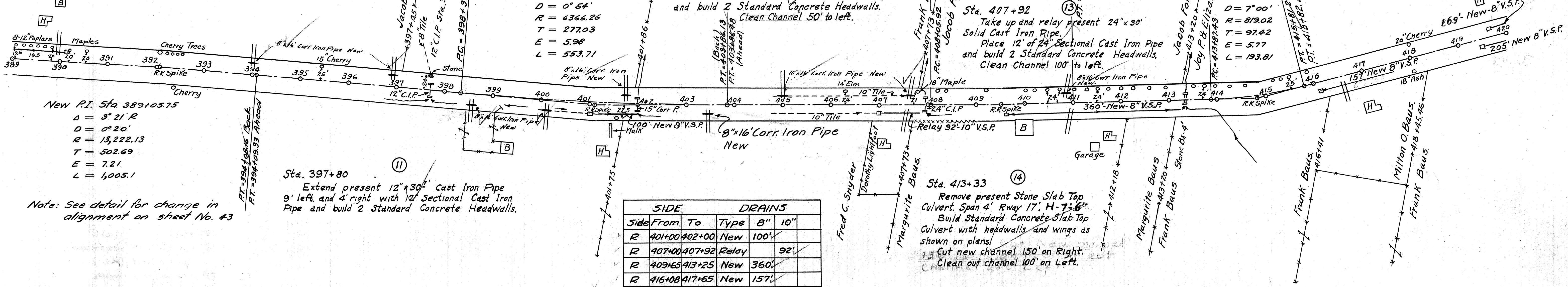
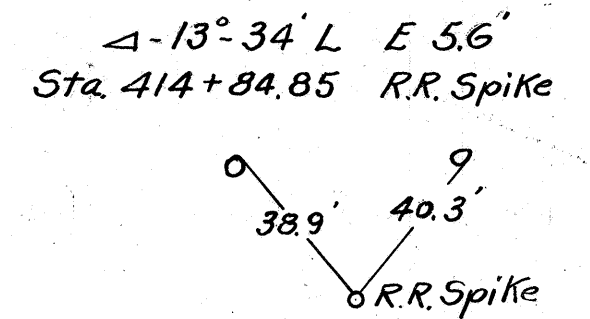
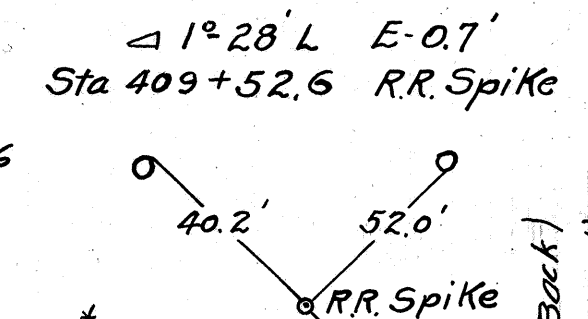
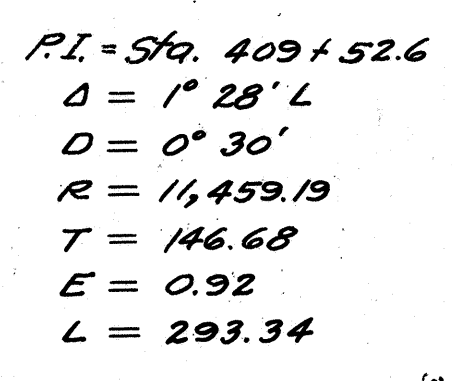
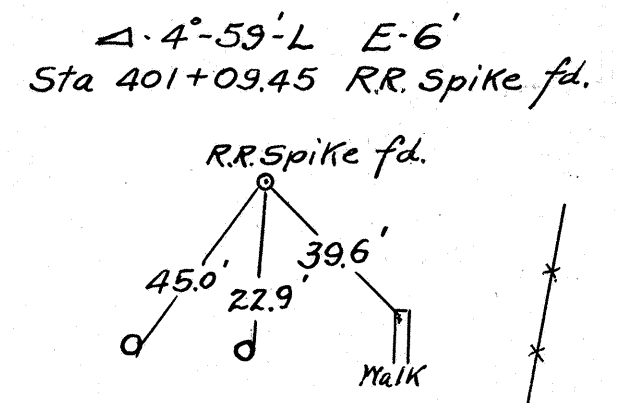
B.M. Sta. 376+50
 R.R. Spike in Maple R
 Elev. 763.12

B.M. Sta. 389+30
 Staples in root of Maple R
 Elev. 766.46





CATCH BASINS			
Side	Sta.	No. 1	No. 2
L	390+05	1	
R	401+00	1	
R	407+00	1	
R	409+65	1	
R	416+08	1	
L	419+70	1	
R	419+52	1	



New P.I. Sta. 389+05.75
 $\Delta = 3^{\circ} 21' R$
 $D = 0^{\circ} 20'$
 $R = 13,222.13$
 $T = 502.69$
 $E = 7.21$
 $L = 1,005.1$

Note: See detail for change in alignment on sheet No. 43

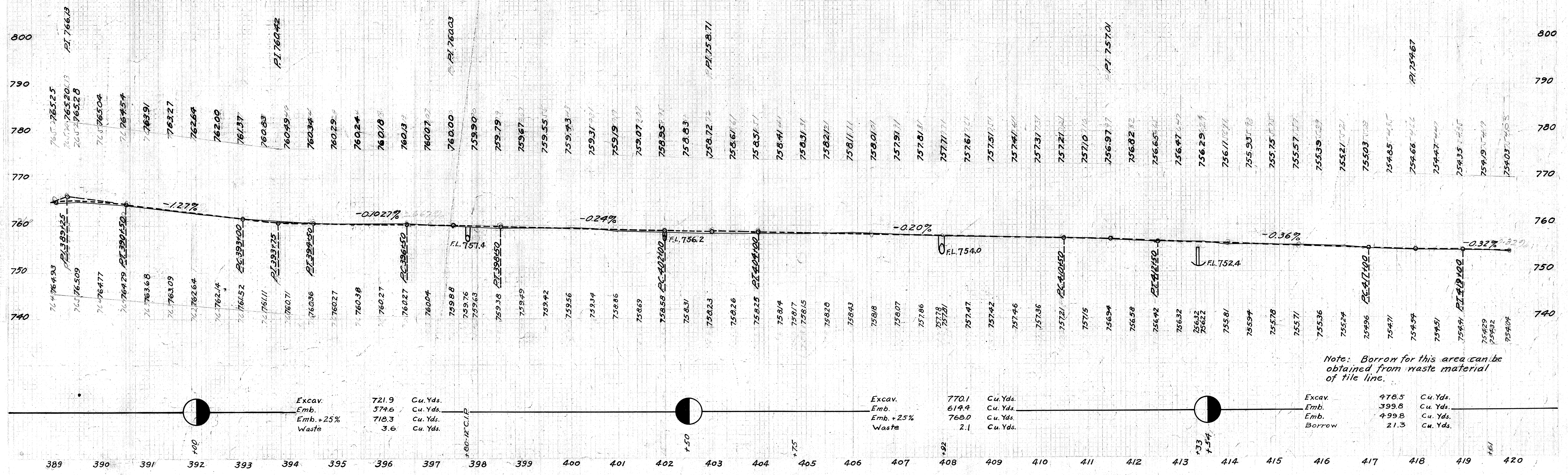
Sta. 397+80
Extend present 12"x30" Cast Iron Pipe 9' left and 4' right with 12" Sectional Cast Iron Pipe and build 2 Standard Concrete Headwalls.

SIDE		DRAINS	
Side	From To	Type	8" 10"
R	401+00 402+00	New	100'
R	407+00 407+92	Relay	92'
R	409+65 413+25	New	360'
R	416+08 417+65	New	157'
L	419+70 421+39	Relay	169'
R	419+52 421+57	New	205'

B.M. Sta. 395+40
R.R. Spike in Cherry L
Elev. 760.87

B.M. Sta. 409+18
R.R. Spike in Maple L
Elev. 757.53

B.M. Sta. 417+95
R.R. Spike in Ash R
Elev. 755.64

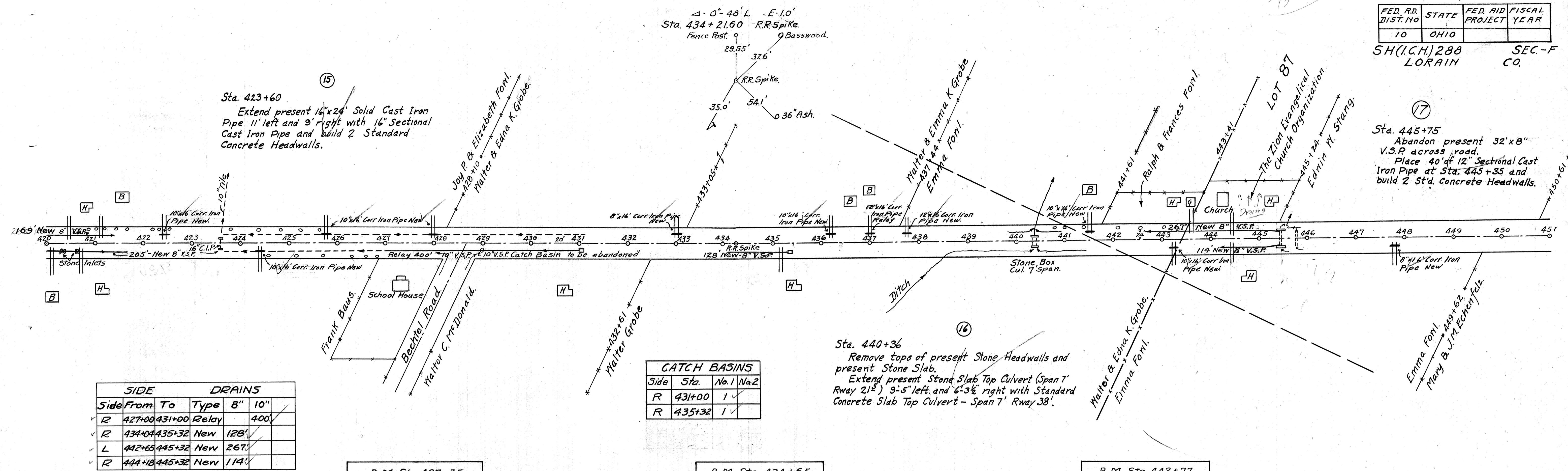


Note: Borrow for this area can be obtained from waste material of tile line.

Excav. 721.9 Cu. Yds.
Emb. 574.6 Cu. Yds.
Emb. +25% 718.3 Cu. Yds.
Waste 3.6 Cu. Yds.

Excav. 770.1 Cu. Yds.
Emb. 614.4 Cu. Yds.
Emb. +25% 768.0 Cu. Yds.
Waste 2.1 Cu. Yds.

Excav. 478.5 Cu. Yds.
Emb. 399.8 Cu. Yds.
Emb. 4.998 Cu. Yds.
Borrow 21.3 Cu. Yds.



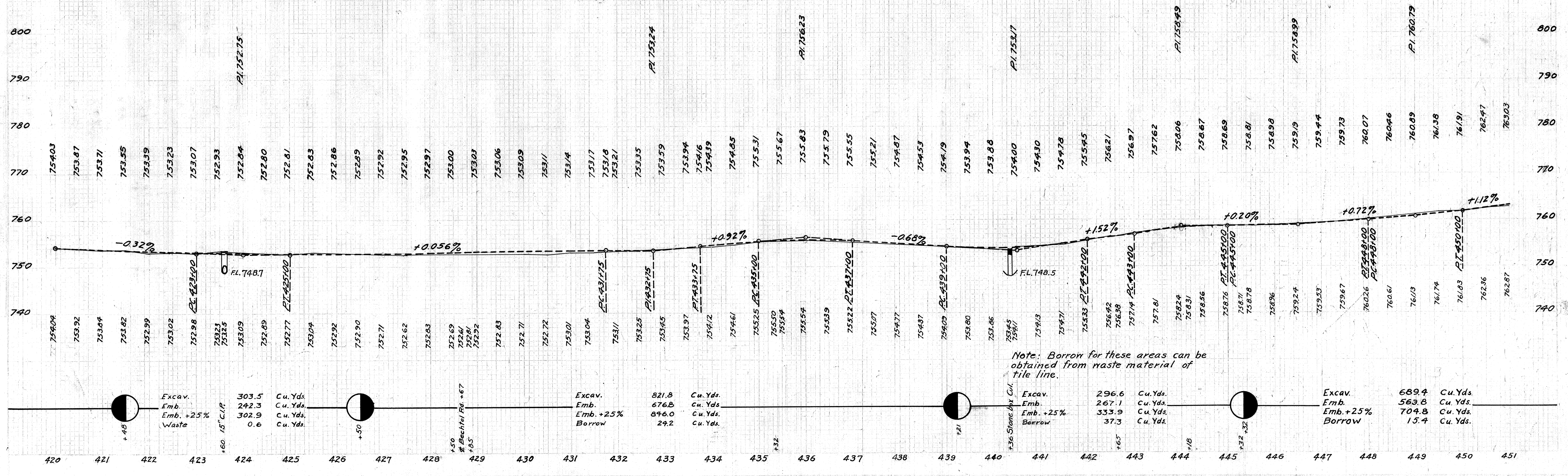
SIDE		DRAINS	
Side	From To	Type	8" 10"
R	427+00 431+00	Relay	400
R	434+04 435+32	New	128
L	442+65 445+32	New	267
R	444+18 445+32	New	114

CATCH BASINS			
Side	Sta.	No.	WxL
R	431+00	1	
R	435+32	1	

B.M. Sta. 427+35
R.R. Spike in Maple L
Elev. 753.28

B.M. Sta. 434+65
R.R. Spike in Ash R
Elev. 757.84

B.M. Sta. 442+77
R.R. Spike in Maple L
Elev. 757.56



Note: Borrow for these areas can be obtained from waste material of tile line.

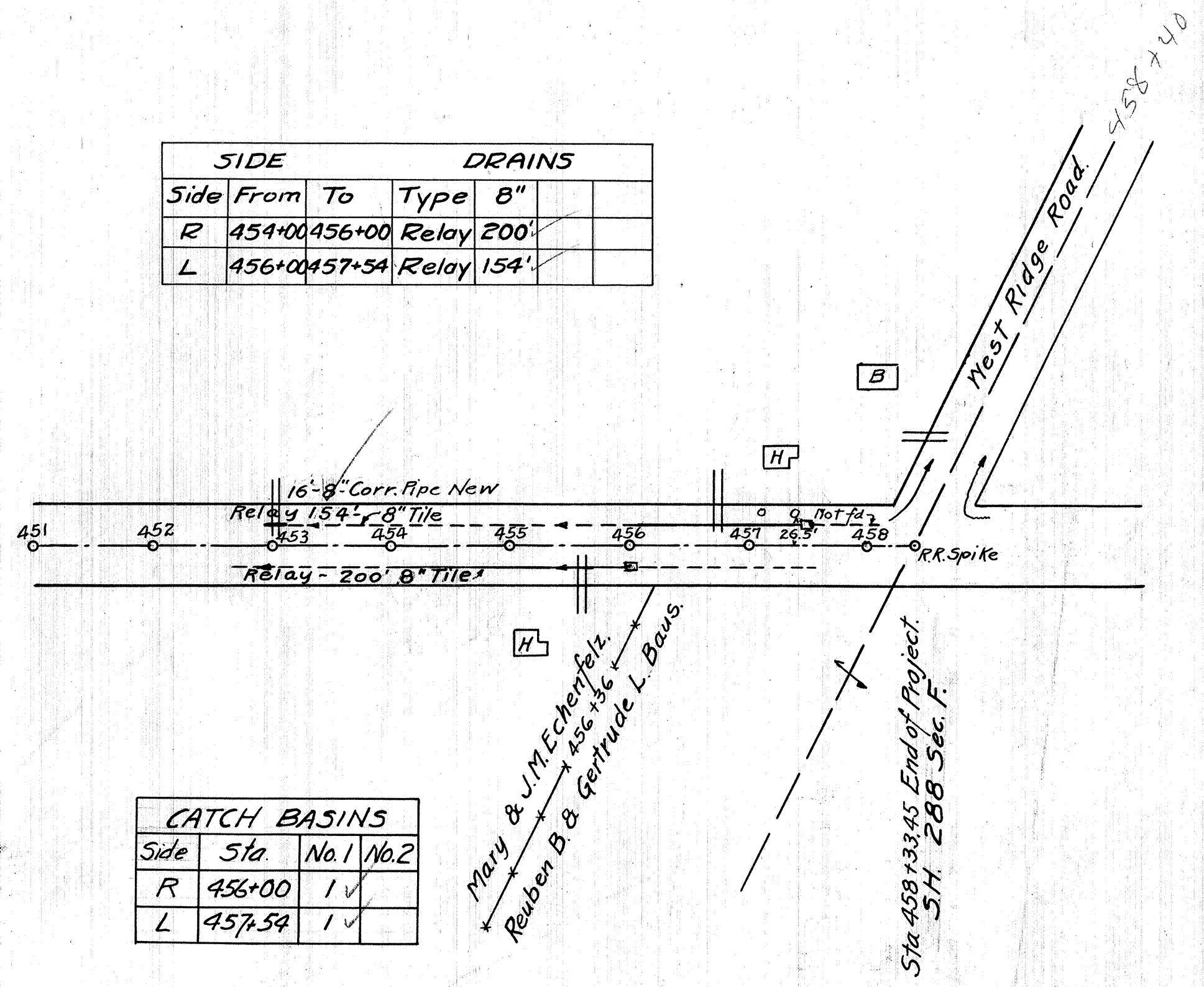
FED. RD. DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
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23
46

SH(I.C.H.) 288 SEC-F
LORAIN CO.

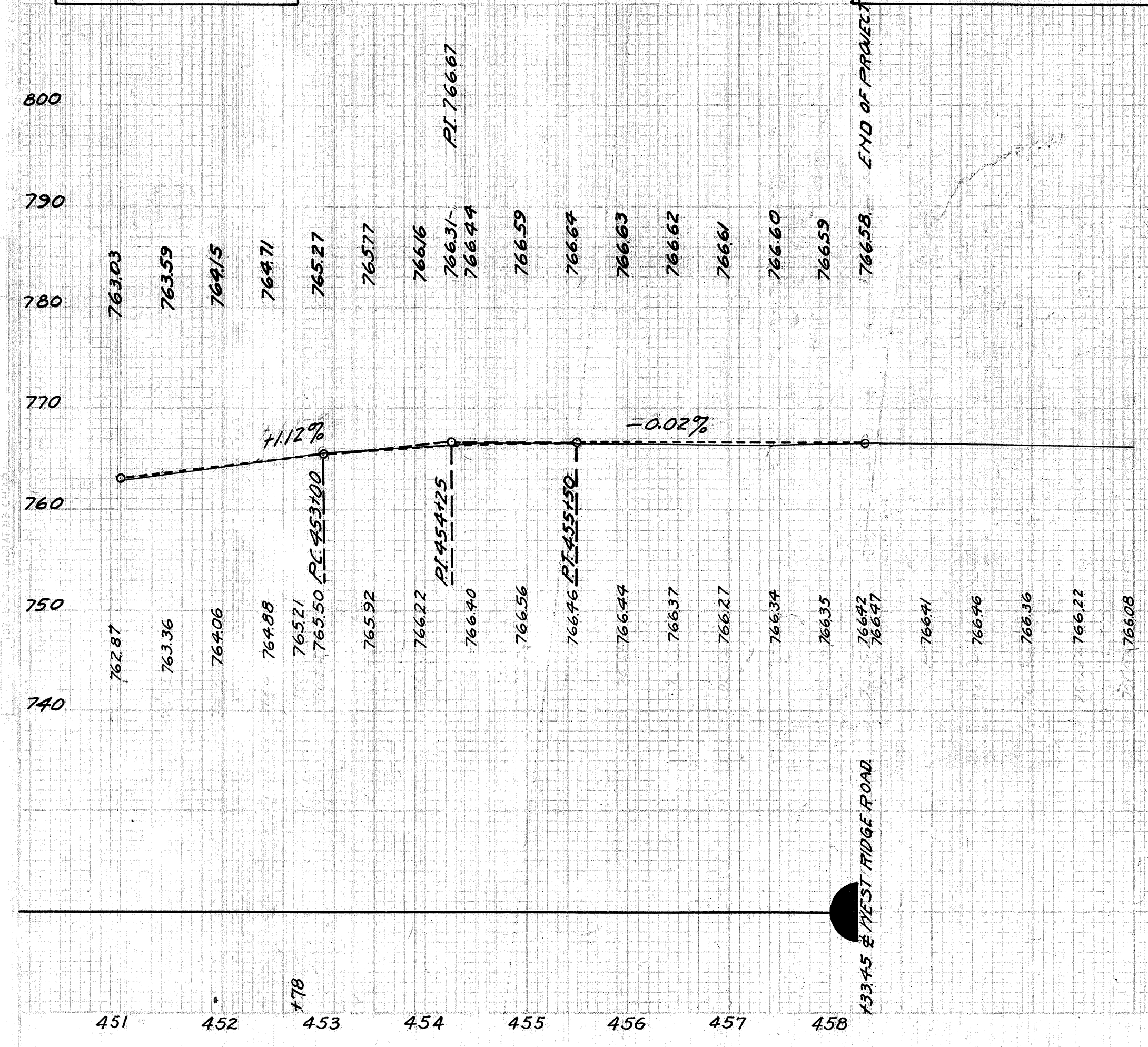
SIDE		DRAINS	
Side	From To	Type	B"
R	454+00-456+00	Relay	200'
L	456+00-457+54	Relay	154'

CATCH BASINS			
Side	Sta.	No. 1	No. 2
R	456+00	1	✓
L	457+54	1	✓



B.M. Sta. 451+88
R.R. Spike in Pole L
Elev. 763.63

B.M. Sta. 459+55
Staples in Root of Maple R
Elev. 767.34



PLAN
DATE
BY
CHECKED
DATE
BY
REVISIONS
NO. DATE BY

PROFILE
DATE
BY
CHECKED
DATE
BY
REVISIONS
NO. DATE BY

PC=280+29.65 PT=282+82.32
D=2°-30' Lft.

LEFT				RIGHT			
Edge of Pav't.	Width	Station	Grade Elev.	Width	Edge of Pav't.	Station	Grade Elev.
758.63	10'	279+29.65	758.73	10'	758.63		
758.55		+50	758.65		758.64		
758.50		+75	758.60		758.70		
758.61		+79.65	758.71		758.82		
758.72		280+00	758.82		759.02		
758.97		+25	759.07		759.30		
759.04		+29.65	759.14		759.47		
759.33		+50	759.43		759.85		
759.74		+75	759.84		760.36		
759.81		+79.65	759.91		760.45		
760.12		281+00	760.22		760.76		
760.48		+25	760.58		761.12		
760.82		+50	760.92		761.46		
761.14		+75	761.24		761.78		
761.43		282+00	761.53		762.07		
761.71		+25	761.81		762.35		
761.78		+32.32	761.88		762.42		
761.96		+50	762.06		762.53		
762.18		+75	762.28		762.64		
762.24		+82.32	762.34		762.67		
762.39		283+00	762.49		762.74		
762.57		+25	762.67		762.82		
762.61		+32.32	762.71		762.82		
762.73		+50	762.83		762.87		
762.87		+75	762.97		762.90		
762.90	10'	+82.32	763.09	10'	762.90		

NO EXTRA AREA. ✓

PC=413+87.43 PT=415+81.24
D=7°-00' Lft.

LEFT				RIGHT			
Edge of Pav't.	Width	Station	Grade Elev.	Width	Edge of Pav't.	Station	Grade Elev.
756.41	10'	412+87.43	756.51	10'	756.41		
756.37	10.02	413+00	756.47		756.49		
756.17	10.17	+25	756.38		756.53		
756.01	10.31	+37.43	756.33		756.48		
755.91	10.48	+50	756.29		756.50		
755.69	10.96	+75	756.20		756.52		
755.58	11.30	+87.43	756.16		756.53		
755.45	11.63	414+00	756.11		756.52		
755.21	12.08	+25	756.02		756.52		
755.10	12.17	+37.43	755.98		756.52		
755.05	12.17	+50	755.93		756.47		
754.96	12.17	+75	755.84		756.38		
754.87	12.17	415+00	755.75		756.29		
754.78	12.17	+25	755.66		756.20		
754.73	12.17	+37.43	755.61		756.15		
754.80	12.00	+50	755.57		756.05		
754.86	11.47	+75	755.48		755.97		
754.86	11.30	+81.24	755.44		755.81		
754.91	10.82	416+00	755.39		755.68		
754.95	10.39	+25	755.30		755.48		
754.94	10.31	+37.43	755.26		755.41		
754.98	10.12	+50	755.21		755.28		
754.99	10.01	+75	755.12		755.05		
754.98	10'	+81.24	755.08	10'	754.98		

EXTRA AREA=571 SQ. YDS.

PC=319+57.72 PT=322+50.83
D=2°-30' R.

LEFT				RIGHT			
Edge of Pav't.	Width	Station	Grade Elev.	Width	Edge of Pav't.	Station	Grade Elev.
765.99	10'	318+57.72	766.09	10'	765.99		
766.02		+75	766.08		765.95		
766.05		319+00	766.06		765.87		
766.06		+07.72	766.05		765.85		
766.10		+25	766.05		765.81		
766.13		+50	766.03		765.73		
766.14		+57.72	766.02		765.71		
766.16		+75	766.01		765.66		
766.20		320+00	765.99		765.59		
766.21		+07.72	765.99		765.57		
766.20		+25	765.98		765.56		
766.18		+50	765.96		765.54		
766.16		+75	765.94		765.52		
766.14		321+00	765.92		765.50		
766.13		+25	765.91		765.48		
766.11		+50	765.89		765.47		
766.09		+75	765.87		765.45		
766.07		322+00	765.85		765.43		
766.06		+25	765.84		765.42		
766.05		+50	765.83		765.41		
766.04		+75	765.82		765.40		
766.05		323+00	765.83		765.41		
766.06		+25	765.84		765.42		
766.07		+50	765.85		765.43		
766.09		+75	765.87		765.45		
766.11		324+00	765.89		765.47		
766.15		+25	765.93		765.51		
766.18		+50	765.96		765.54		
766.22		+75	766.00		765.58		
766.27		325+00	766.05		765.63		
766.32		+25	766.10		765.68		
766.36		+50	766.14		765.72		
766.39		+75	766.17		765.75		
766.42		326+00	766.20		765.78		
766.44		+25	766.22		765.80		
766.45		+50	766.23		765.81		
766.46		+75	766.24		765.82		
766.46		327+00	766.24		765.82		
766.46		+25	766.24		765.82		
766.46		+50	766.24		765.82		
766.46		+75	766.24		765.82		
766.45		328+00	766.23		765.81		
766.45		+25	766.23		765.81		
766.45		+50	766.23		765.81		
766.45		+75	766.23		765.81		
766.44		329+00	766.22		765.80		
766.44		+25	766.22		765.80		
766.44		+50	766.22		765.80		
766.44		+75	766.22		765.80		
766.43		330+00	766.21		765.79		
766.42		+25	766.20		765.78		
766.41		+50	766.17		765.77		
766.35		+75	766.13		765.71		
766.28		331+00	766.06		765.64		
766.20		+25	765.98		765.56		
766.10		+50	765.88		765.46		
765.99		+75	765.77		765.35		
765.85		332+00	765.63		765.21		
765.85		+00.83	765.63		765.21		
765.65		+25	765.48		765.11		
765.43		+50	765.31		765.00		
765.42		+50.83	765.30		764.99		
765.19		+75	765.12		764.86		
764.92		333+00	764.91		764.71		
764.91		+00.83	764.90		764.70		
764.66		+25	764.70		764.55		
764.38		+50	764.48		764.38		
764.37	10'	+50.83	764.47	10'	764.37		

NO EXTRA AREA. ✓

PC=345+79.07 PT=347+13.07
D=2°-30' Lft.

LEFT				RIGHT			
Edge of Pav't.	Width	Station	Grade Elev.	Width	Edge of Pav't.	Station	Grade Elev.
758.39	10'	344+79.07	758.49	10'	758.39		
758.28		345+00	758.42		758.37		
758.12		+25	758.32		758.32		
758.09		+29.07	758.30		758.30		
757.95		+50	758.20		758.25		
757.76		+75	758.06		758.17		
757.73		+79.07	758.04		758.16		
757.56		346+00	757.92		758.08		
757.36		+25	757.78		757.99		
757.29		+29.07	757.71		757.93		
757.22		+50	757.64		757.86		
757.15		+63.07	757.57		757.79		
757.10		+75	757.50		757.69		
757.04		347+00	757.39		757.53		
757.03		+13.07	757.34		757.46		
757.01		+25	757.30		757.39		
756.99		+50	757.23		757.26		
756.99		+63.07	757.20		757.20		
756.99		+75	757.17		757.15		
757.01		348+00	757.14		757.07		
757.03	10'	+13.07	757.13	10'	757.03		

NO EXTRA AREA. ✓

PC=398+60.12 PT=403+58.85
D=1°-00'

LEFT				RIGHT			
Edge of Pav't.	Width	Station	Grade Elev.	Width	Edge of Pav't.	Station	Grade Elev.
759.88	10'	397+60.12	759.98	10'	759.88		
759.83		+75	759.95		759.87		
759.75		398+00	759.90		759.85		
759.72		+10.12	759.88		759.84		
759.67		+25	759.85		759.83		
759.58		+50	759.79		759.80		
759.55		+60.12	759.77		759.79		
759.49		+75	759.73		759.77		
759.40		399+00	759.67		759.74		
759.37		+10.12	759.65		759.73		
759.33		+25	759.61		759.69		
759.27		+50	759.55		759.63		
759.21		+75	759.49		759.57		
759.15		400+00	759.43		759.51		
759.09		+25	759.37		759.45		
759.05		+50	759.31		759.41		
758.97		+75	759.25		759.33		
758.91		401+00	759.19		759.27		
758.85		+25	759.13		759.21		
758.79		+50	759.07		759.15		
758.73		+75	759.01		759.09		
758.67		402+00	758.95		759.03		
758.61		+25	758.89		758.97		
758.55		+50	758.83		758.91		
758.49		+75	758.77		758.85		
758.44		403+00	758.72		758.80		
758.42		+08.45	758.70		758.78		
758.39		+25	758.67		758.77		
758.35		+50	758.61		758.71		
758.36		+58.45	758.59		758.60		
758.34		+75	758.56		758.52		
758.34		404+00	758.51		758.48		
758.33		+08.45	758.49		758.45		
758.32		+25	758.46		758.40		
758.30		+50	758.41		758.32		
758.29	10'	+58.45	758.39	10'	758.29		

NO EXTRA AREA. ✓

FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		1930

25
46

S.H. (I.C.H.) 288 SEC. F
LORAIN COUNTY

End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
9.2	13.8		
		24.8	55.6
6.4	16.2		
		2.7	5.3
8.1	12.7		
		65.0	15.5
32.9	1.2		
		27.6	3.2
16.8	4.5		
		7.6	2.5
9.2	3.8		
		13.4	2.2
19.3	0.8		

Excav.
Emb.
Emb.+2.5%
Waste

Cu. Yds.
188.0
149.4
186.7
7.3

+27.96

End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
8.2	13.2		
		37.8	41.1
		10.0	19.5
5.2	12.3		
		15.5	46.2
8.5	22.6		
		34.6	77.0
10.2	19.0		
		16.4	32.0
		24.6	43.1
		8.2	16.1
9.5	12.4		
		9.3	12.9
7.7	10.7		
		29.4	36.1

+55

Beginning of Sec. F. 268127.96 East Corp. Line South Amherst
762.43

FINAL SURVEY NOTE BOOK

ORIGINAL SURVEY NOTE BOOK

FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		1930

S.H.(I.C.H.) 288
LORAIN

SEC-F
CO.

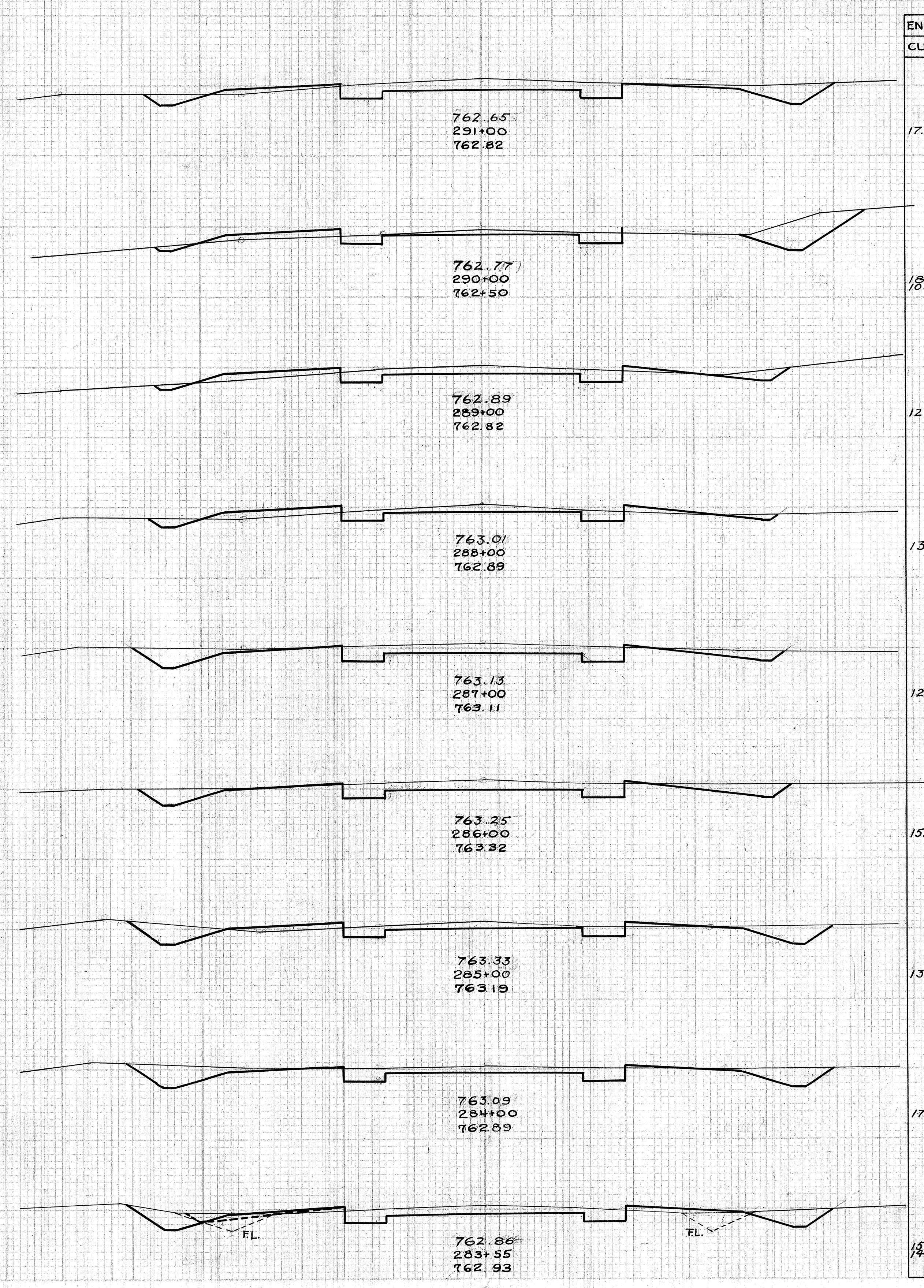
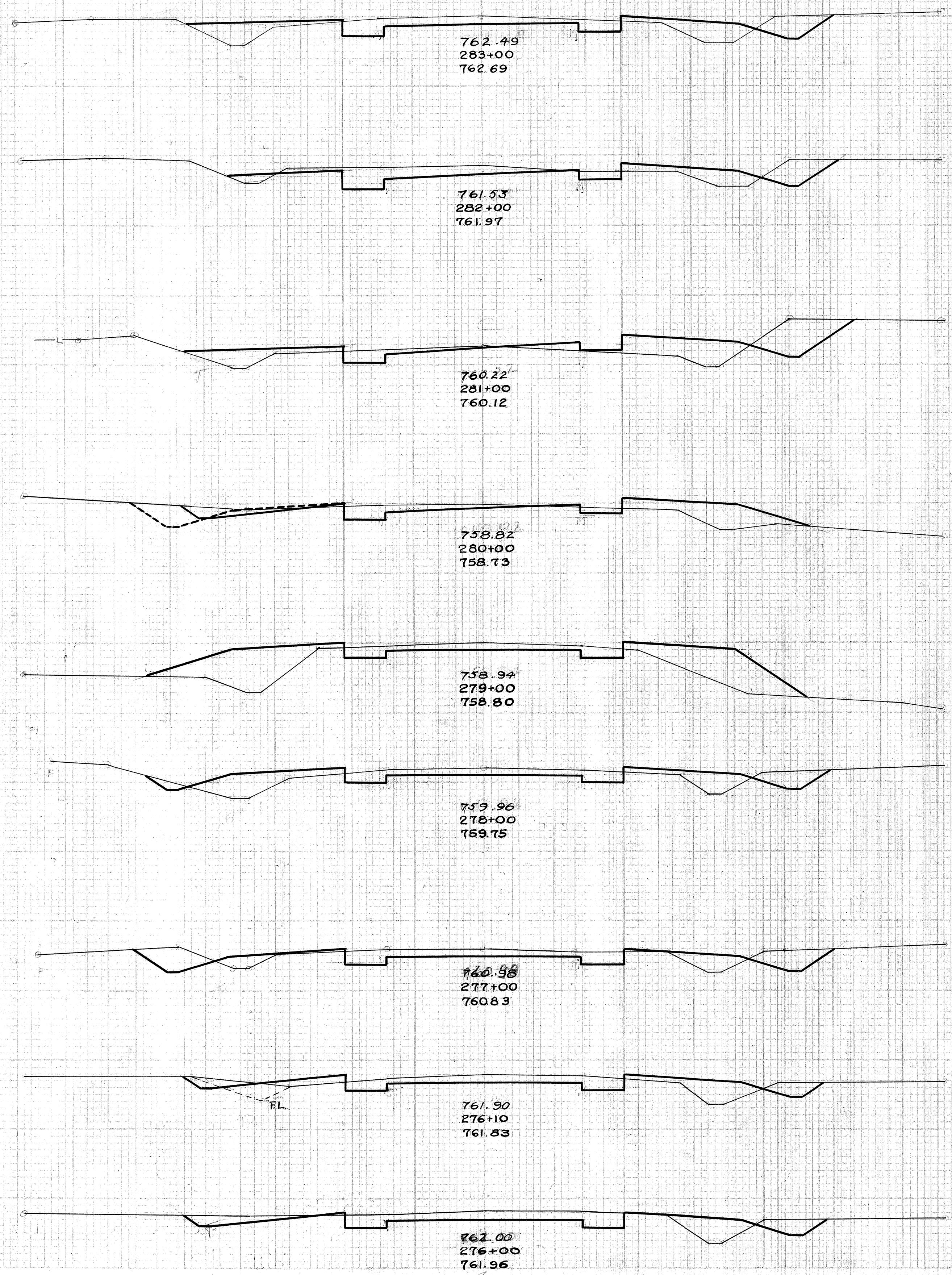
26
46

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		26.2	25.7
11.3	15.5		
		43.7	48.1
12.3	10.5		
		48.0	55.6
13.6	19.5		
		376	62.4
5.7	14.2		
10.2	14.6		
		95.9	35.6
41.6	4.6		
		95.2	40.7
3.8	17.4		
		48.5	50.9
16.4	9.8		
		42.5	38.8
9.1	13.5		
11.1	10.3		
		4.3	3.6
12.2	9.0		

Cu. Yds.
Cu. Yds.
Cu. Yds.
Cu. Yds.

785.2
622.7
778.4
6.8

Excav.
Emb.
Waste + 25%



END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		42.8	62.0
17.3	3.5		
		65.4	17.4
18.9	3.9		
		43.5	16.3
12.8	3.6		
		48.7	10.2
13.5	1.9		
		7.8	1.1
		47.8	6.5
		40.0	5.4
12.3	1.6		
		50.9	4.4
15.2	0.8		
		53.1	14.8
13.5	7.2		
		57.4	16.9
17.5	1.9		
		27.6	4.5
18.9	3.9		

+08

ORIGINAL SURVEY
NOTES
NOTE BOOK
AREA

DATE: _____
 ORIGINAL SURVEY PLANNED
 TOTAL BOOK _____
 SHEET NO. _____

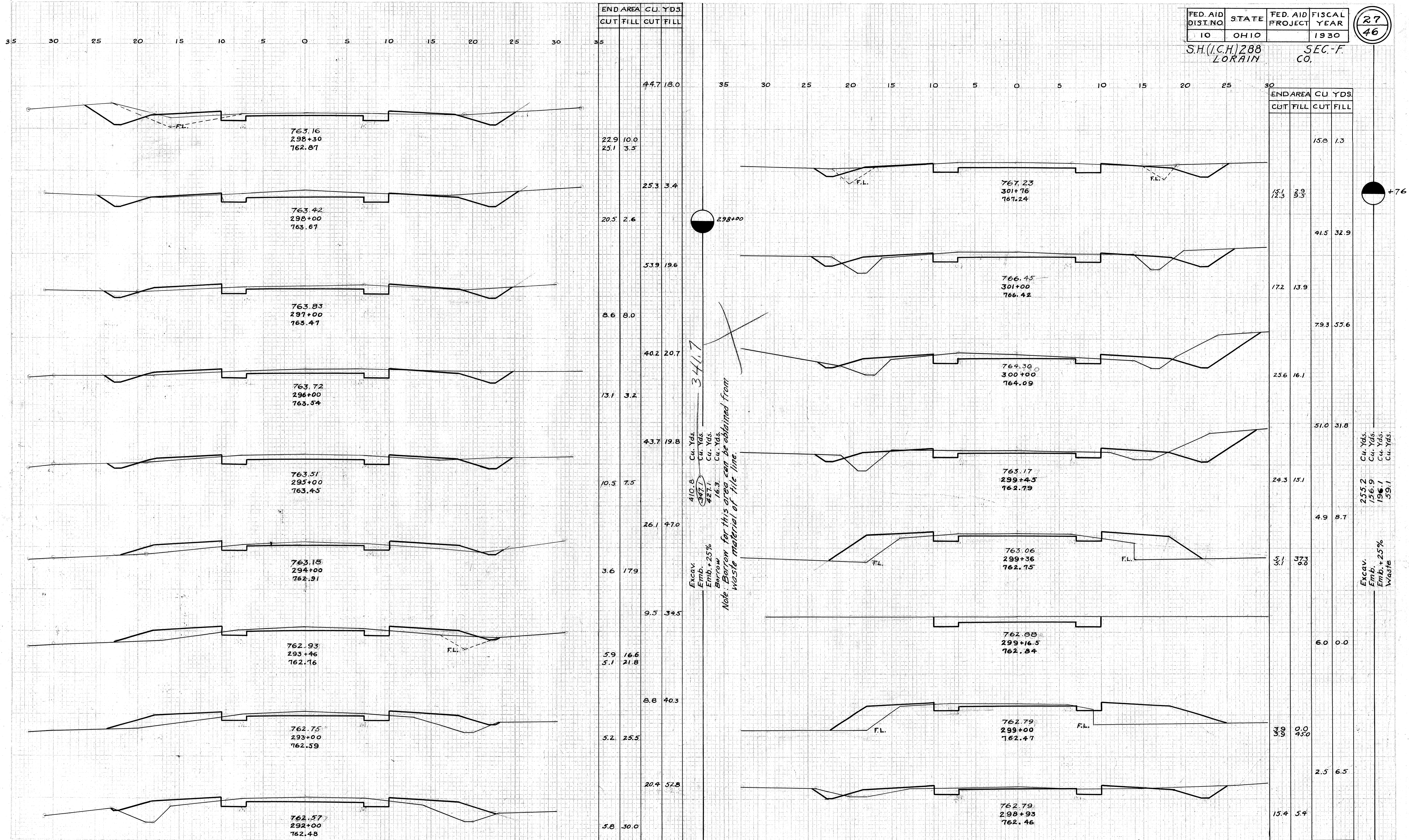
DATE: _____
 ORIGINAL SURVEY PLANNED
 TOTAL BOOK _____
 SHEET NO. _____

FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		1930

S.H. (I.C.H.) 288
LORAIN

SEC.-F.
CO.

27
46



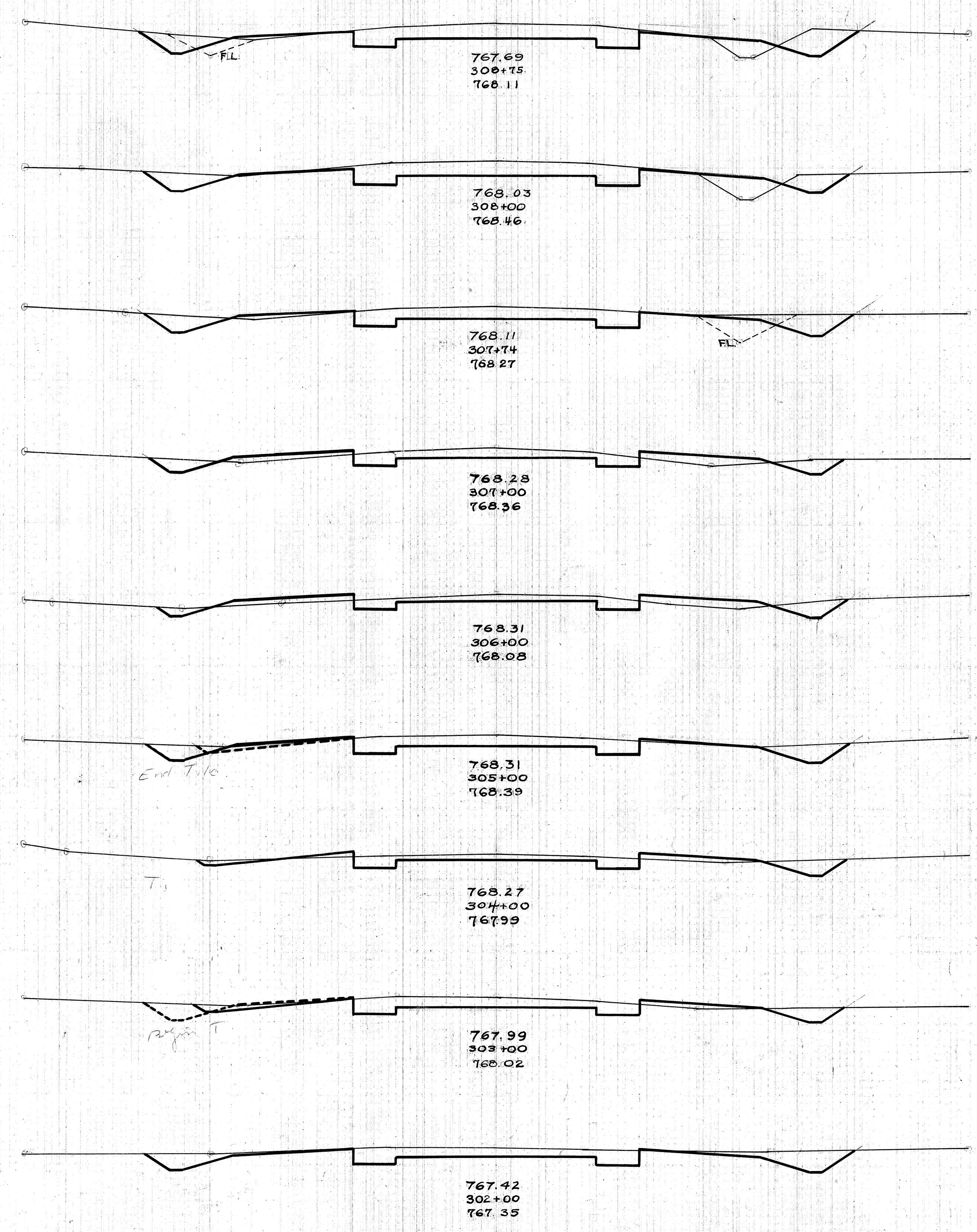
Excav. 410.8
 Emb. 347.1
 Emb. + 25% 427.1
 Borrow 16.3
 Waste 59.1

Note: Borrow for this area can be obtained from waste material of tile line.

+7.6

Excav. 255.2
 Emb. 156.9
 Emb. + 25% 196.1
 Waste 59.1

35 30 25 20 15 10 5 0 5 10 15 20 25 30 35



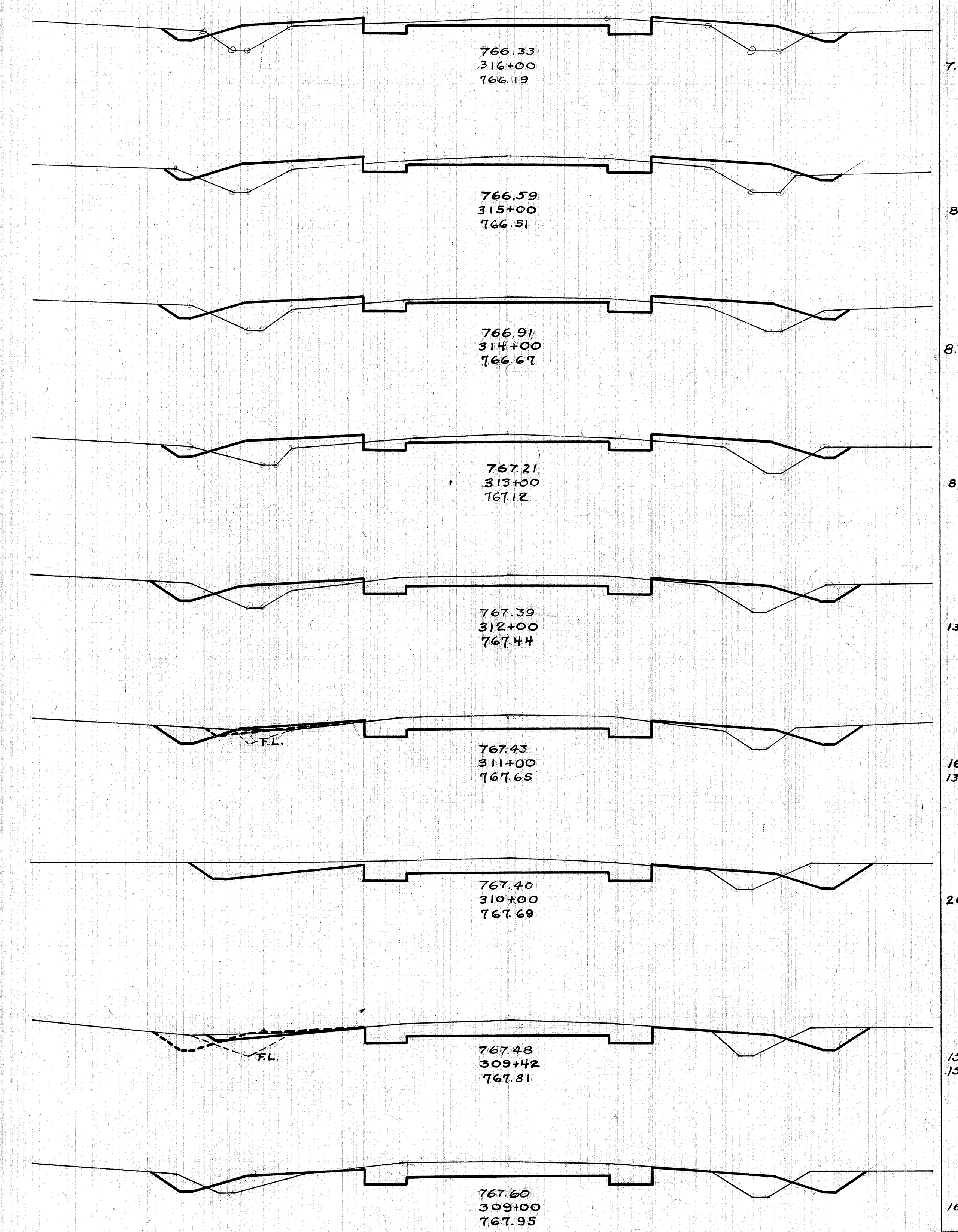
END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
14.3	10.6	14.4	9.2
15.6	8.7		
		30.9	20.1
20.0	5.8		
		18.4	2.5
18.2	1.4		
		43.0	11.4
13.2	6.9		
		42.8	29.8
9.9	9.2		
		43.0	23.9
13.3	3.7		
11.1	1.9		
		36.1	12.0
8.4	4.6		
		36.7	15.7
11.4	3.9		
12.9	5.3		
		61.9	9.8
20.3	0.0		

Excav.
Emb.
Emb. + 25%
Waste

690.7
552.3
690.4

0.3
0.3
0.3

35 30 25 20 15 10 5 0 5 10 15 20 25 30 35



END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
7.4	19.1	11.0	30.8
		20.2	56.0
		9.2	25.2
		29.4	70.9
8.5	19.2		
		31.9	76.9
8.7	22.3		
		32.2	78.9
8.7	20.3		
		41.7	66.5
13.8	15.6		
		56.3	48.1
16.6	10.4		
13.6	6.5		
		63.5	21.7
20.7	5.2		
		38.3	12.1
15.0	6.1		
13.6	11.7		
		25.2	16.3
16.8	9.3		

35

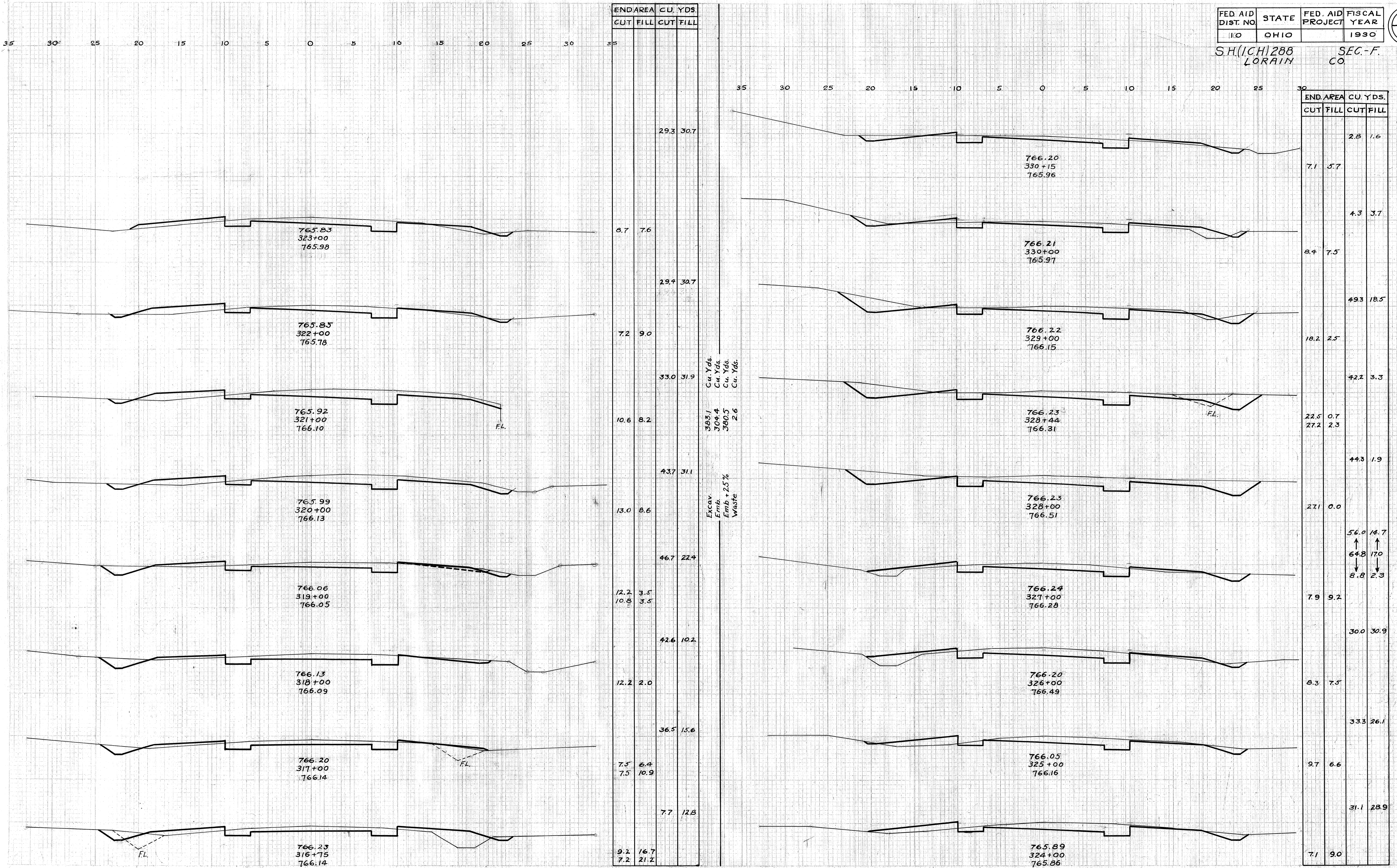
DATE: _____
 ORIGINAL SURVEY: _____
 REVISIONS: _____
 DRAWN BY: _____
 CHECKED BY: _____

DATE: _____
 ORIGINAL SURVEY: _____
 REVISIONS: _____
 DRAWN BY: _____
 CHECKED BY: _____

FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
110	OHIO		1930

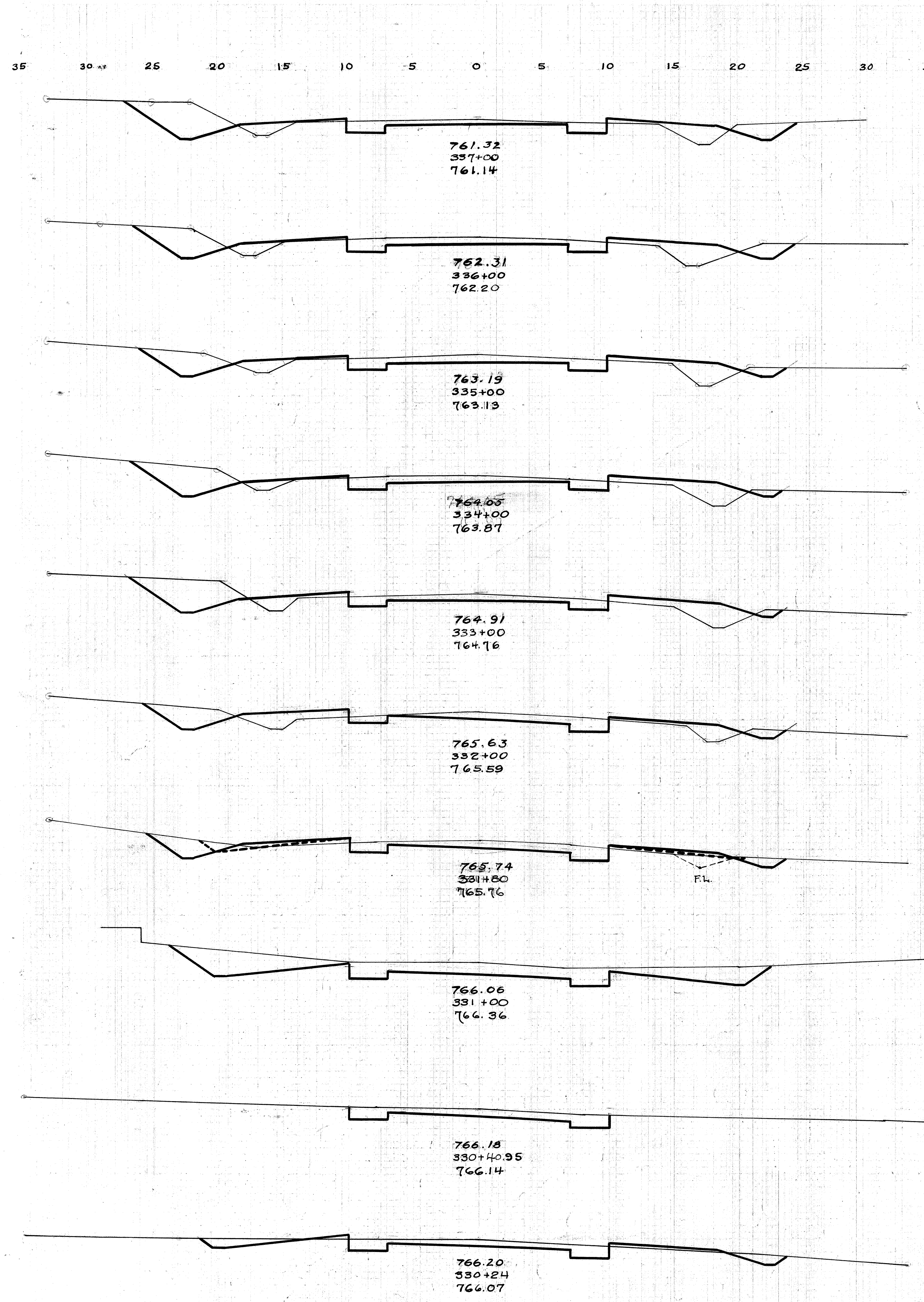
29
46

S.H.(I.C.H) 288
LORAIN
SEC.-F.
CO



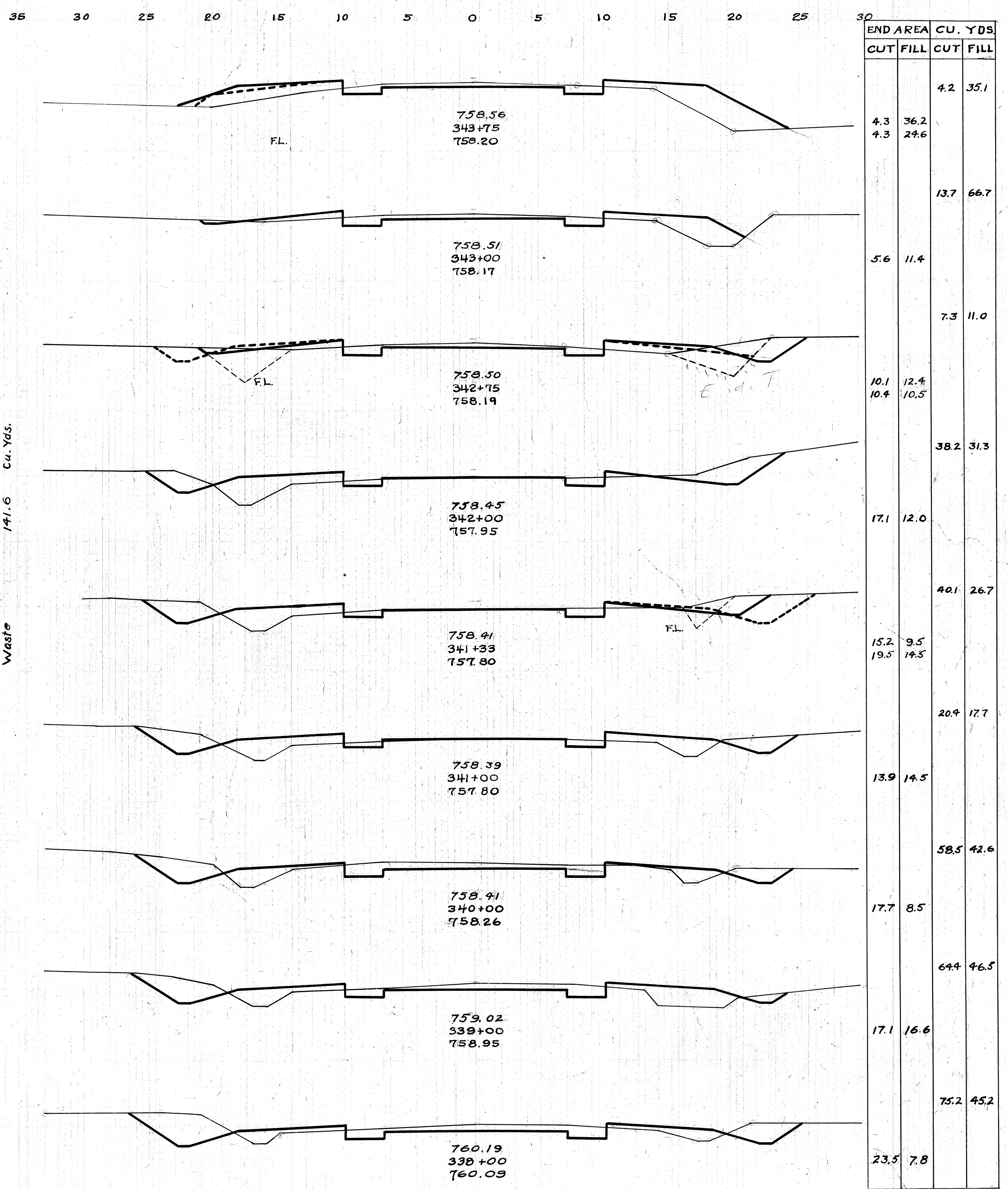
Excav. Emb. Waste
 383.1 Cu. Yds.
 304.4 Cu. Yds.
 380.5 Cu. Yds.
 2.6 Cu. Yds.

+14



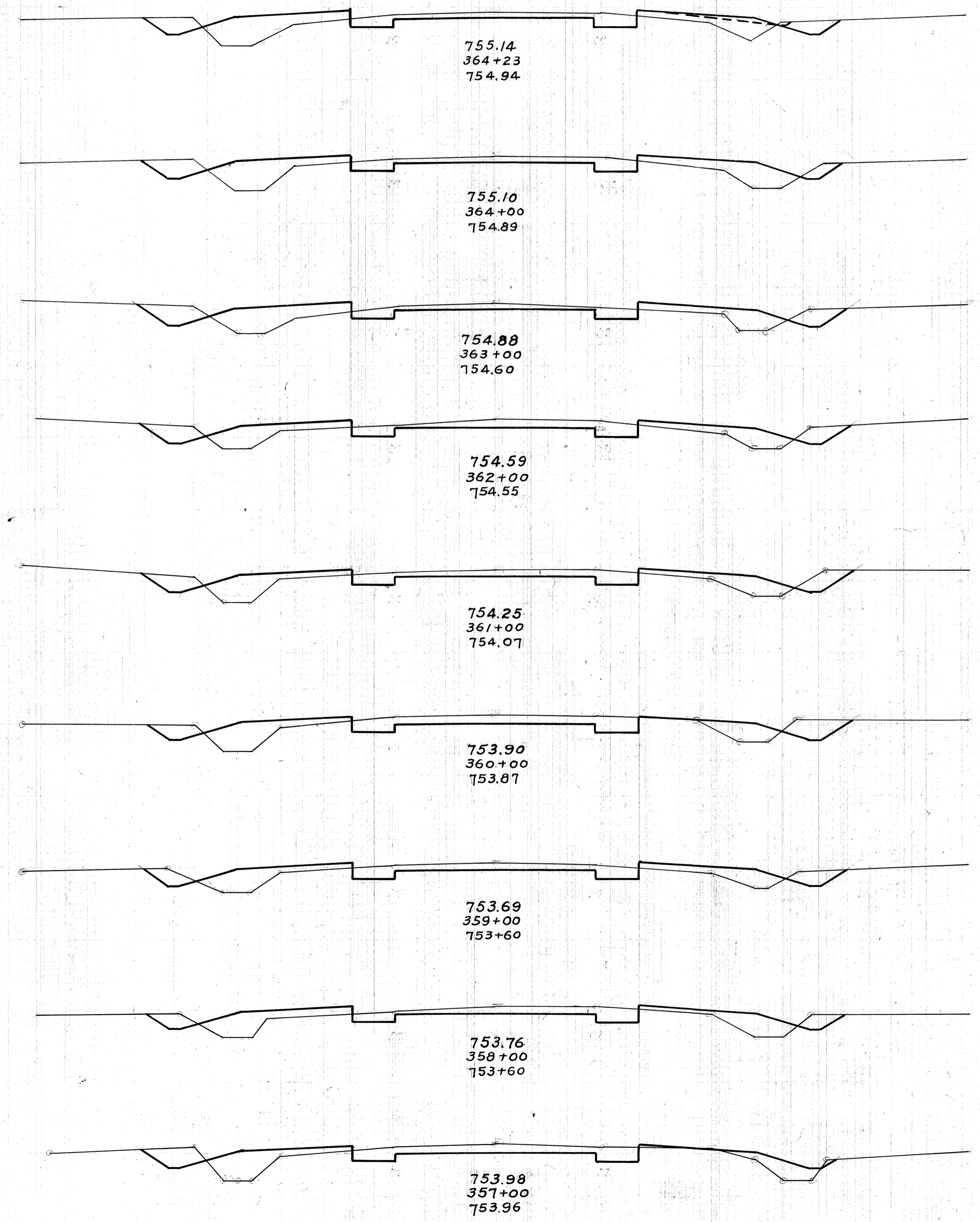
END. AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		91.1	27.4
25.7	7.0		
		80.0	36.9
17.5	12.9		
		59.3	46.9
14.5	12.4		
		59.4	43.3
17.6	11.0		
		68.9	48.0
19.6	14.9		
		62.0	50.6
13.9	12.4		
		11.7	7.9
17.6	8.8		
8.8	2.7		
		61.4	4.0
32.6	0.0		
		43.1	0.0
6.9	0.0		
		3.8	0.0
5.2	0.0		
9.6	3.8		

Excav. Cu. Yds. 1161.3
Emb. Cu. Yds. 815.8
Emb. + 25% Waste Cu. Yds. 1019.7
Waste Cu. Yds. 141.6



END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		4.2	35.1
4.3	36.2		
4.3	24.6		
		13.7	66.7
5.6	11.4		
		7.3	11.0
10.1	12.4		
10.4	10.5		
		38.2	31.3
17.1	12.0		
		40.1	26.7
15.2	9.5		
19.5	14.5		
		20.4	17.7
13.9	14.5		
		58.5	42.6
17.7	8.5		
		64.4	46.5
17.1	16.6		
		75.2	45.2
23.5	7.8		

35 30 25 20 15 10 5 0 5 10 15 20 25 30 35



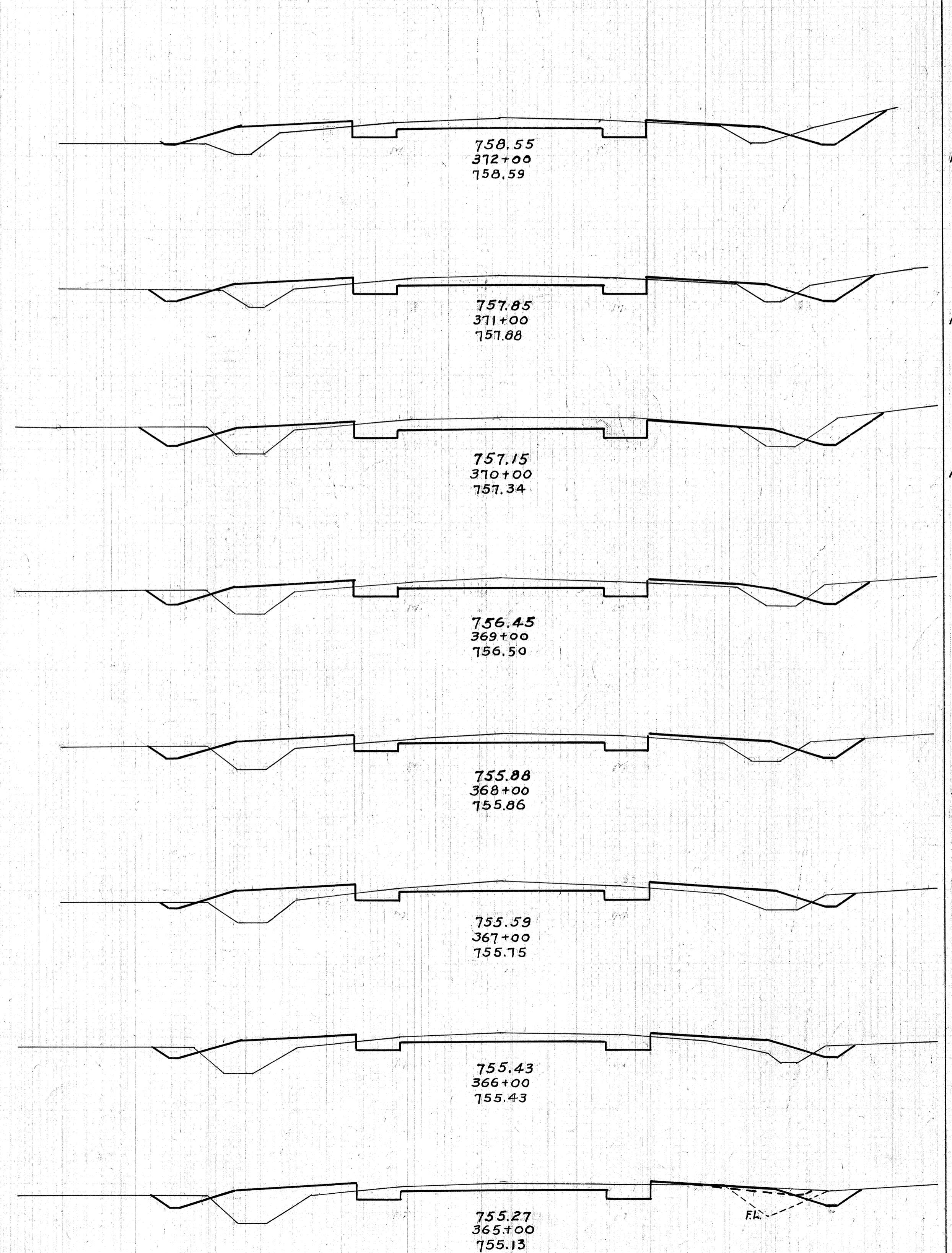
END AREA	CU. YDS.	
CUT	FILL	CUT/FILL
29.8	40.2	
9.1	15.0	
11.4	19.8	
9.8	17.0	
11.6	20.0	
39.8	79.8	
9.9	23.1	
40.9	71.7	
12.2	15.6	
44.6	60.4	
11.9	17.0	
46.3	58.7	
13.1	14.7	
47.4	53.7	
12.5	14.3	
20.0	27.7	
4.1	56.9	
2.1	29.2	
9.7	16.4	
37.0	59.3	
10.3	15.6	

+51

FED. AID DIST. NO. 10 STATE OHIO FED. AID PROJECT 1930 FISCAL YEAR 1930
 S.H. (I.C.H.) 288 LORAIN CO. SEC. F.

32
46

35 30 25 20 15 10 5 0 5 10 15 20 25 30



END AREA	CU. YDS.	
CUT	FILL	CUT/FILL
71.9	47.4	
12.0	15.2	
48.9	48.0	
14.4	10.7	
59.1	41.9	
17.5	11.9	
54.3	50.7	
11.8	15.5	
41.9	62.2	
10.8	18.1	
36.9	68.9	
9.1	19.1	
35.9	69.1	
10.3	18.2	
40.4	68.5	
11.5	18.8	
11.8	13.2	

Cu. Yds. 137.6
 Cu. Yds. 909.7
 Cu. Yds. 1137.1
 Cu. Yds. 0.6
 Excav. Emb. + 2.5% Waste

£

£

35 30 25 20 15 10 5 0 5 10 15 20 25 30 35

END AREA	C.U. YDS	CUT	FILL	CUT	FILL
74.3	12.2				
20.0	0.0	21.7	0.0		
10.0	0.0				
32.1	0.0	8.4	0.0		
3.8	0.0				
7.6	0.0				
2.9	0.0				
6.7	0.0	20.5	0.0		
7.3	0.0				
19.1	0.0				
21.2	2.5	61.2	6.8		
40.0	4.3				
39.9	6.5				
167.4	16.1				
50.5	2.2	47.0	0.4		
150.0	3.7				
39.0	1.6				
44.1	1.5				
25.5	0.4	39.6	6.0		
68.2	18.2				
26.8	10.4				

35 30 25 20 15 10 5 0 5 10 15 10 25 30

END AREA	C.U. YDS	CUT	FILL	CUT	FILL
47.8	38.8				
104.8	60.0				
37.0	21.2				
28.1	16.4				
58.2	119.2				
8.9	59.3	36.3			
4.8	20.1				
8.5	35.9	57.5			
34.8	133.3				
10.3	14.5				
70.2	47.0				
27.6	10.9				
77.7	30.7				
26.2	10.3	28.2	6.1		
21.1	6.2				
23.5	9.2				
59.6	13.7				
26.5	3.4				
40.8	8.5				
27.3	7.8	20.1	6.6		

FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		1930.

S.H.(ICH)288
LORAIN

SEC-F.
CO.

33
46

ORIGINAL SURVEY
DATE: 10/1/29
BY: [unclear]
CHECKED: [unclear]
APPROVED: [unclear]

ORIGINAL SURVEY
DATE: 10/1/29
BY: [unclear]
CHECKED: [unclear]
APPROVED: [unclear]

+35

+37

Excav. Waste
Emb. + 25%
Cu. Yds. 518.7
Cu. Yds. 414.6
Cu. Yds. 578.2
Cu. Yds. 0.5

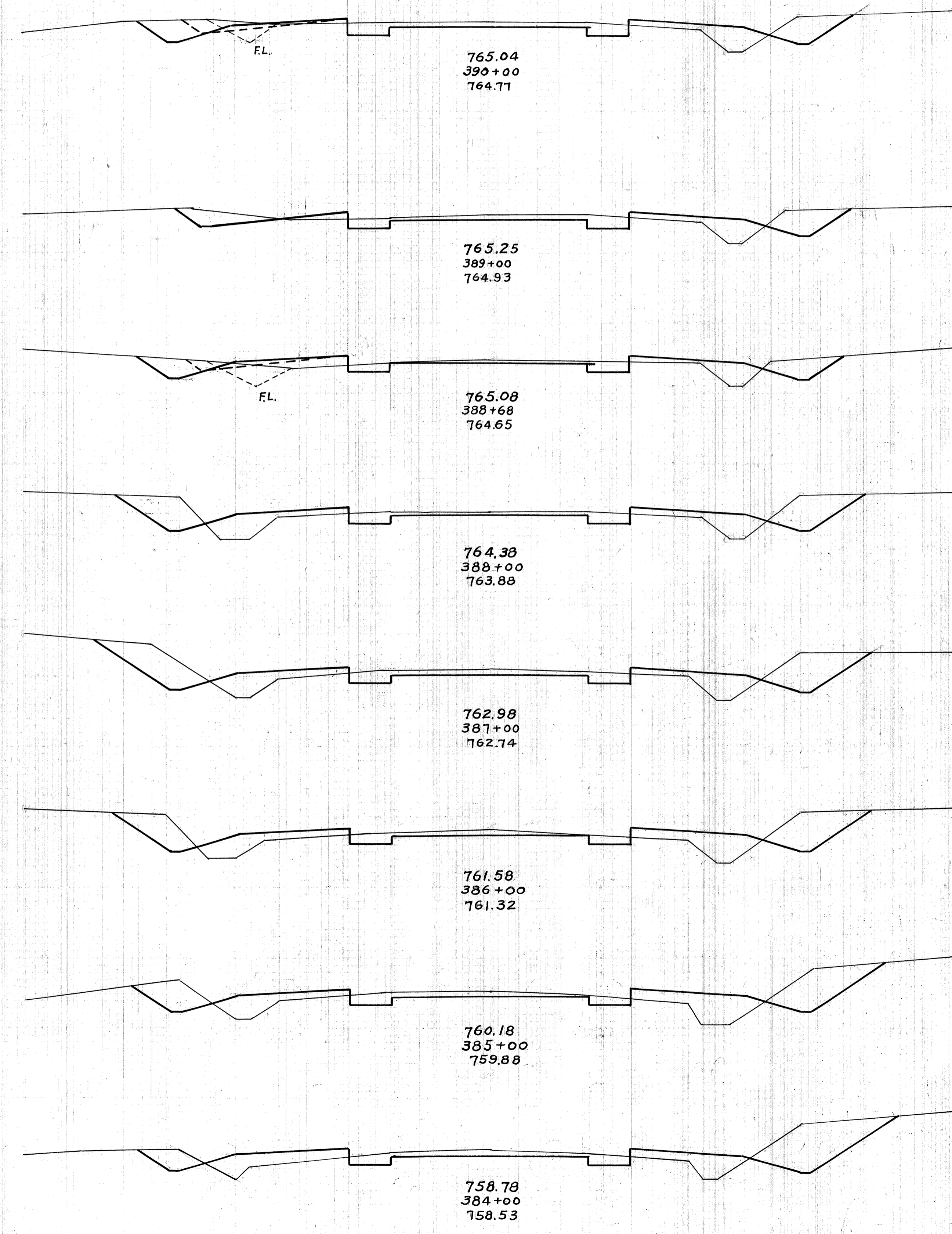
FED AID DIST. NO	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		1930

S.H.(I.C.H)288
LORAIN

SEC-F.
CO.

34
46

35 30 25 20 15 10 5 0 5 10 15 20 25 30 35

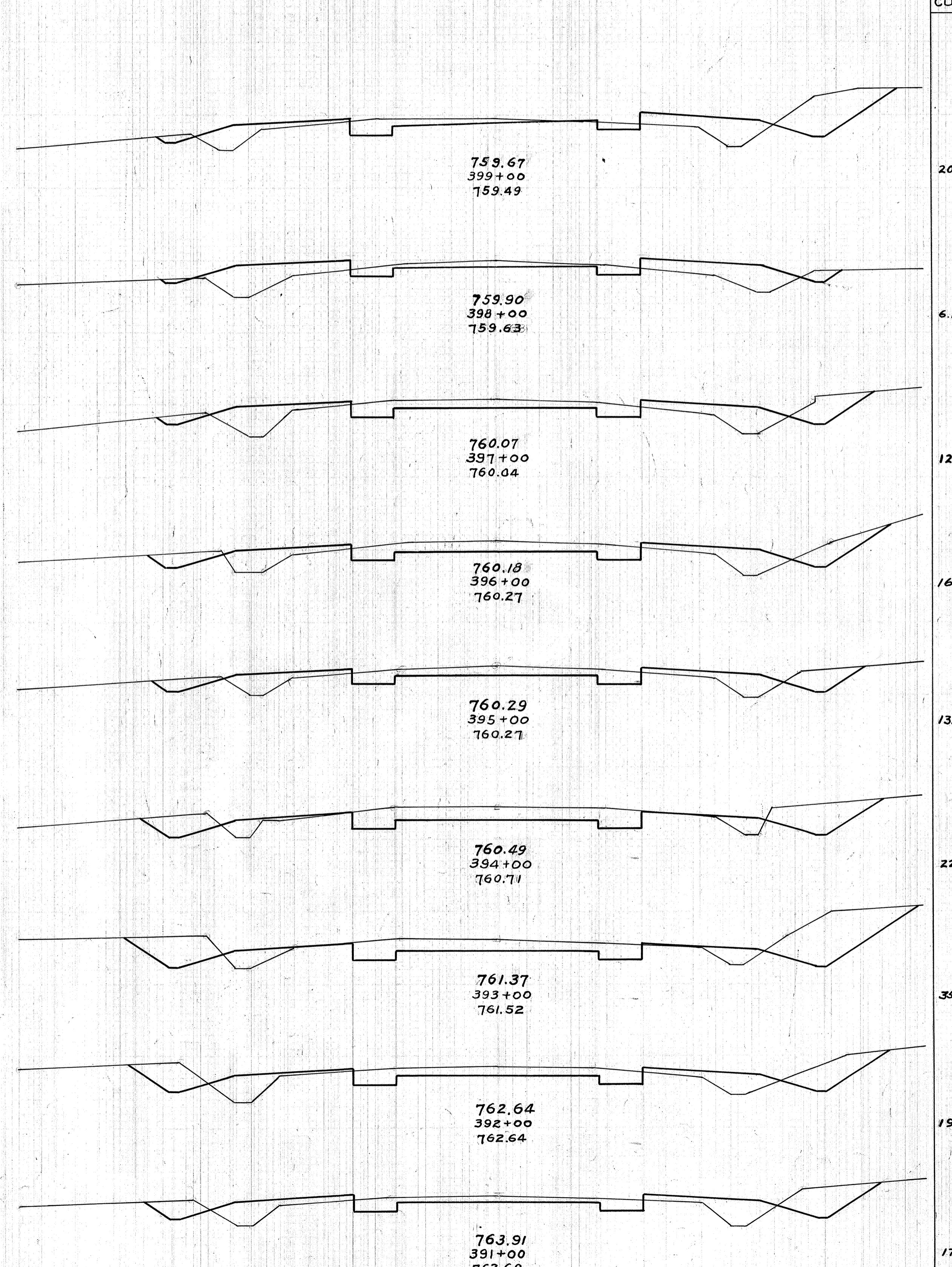


END AREA CU. YDS.		CUT FILL CUT FILL	
	61.9	55.9	
16.2	12.8	12.8	9.4
	49.4	35.4	
13.9	9.7		
	14.6	11.8	
10.7	13.8	10.2	15.0
	45.6	37.5	
22.4	14.8		
	92.0	59.3	
27.3	17.2		
	93.5	67.0	
23.2	19.0		
	87.8	68.9	
24.2	18.2		
	97.6	63.3	
28.5	16.5		

Cu. Yds.
Cu. Yds.
Cu. Yds.
Excav.
Emb.
Emb. + 25%
Waste

677.2
495.7
625.9
59.3

35 30 25 20 15 10 5 0 5 10 15 20 25 30



END AREA CU. YDS.		CUT FILL CUT FILL	
	74.8	44.4	
20.0	17.0		
	48.3	76.1	
6.1	24.1		
	34.1	83.3	
12.3	20.9		
	54.1	63.9	
16.9	13.6		
	56.7	49.4	
13.7	13.1		
	67.2	39.8	
22.6	8.4		
	163.5	33.5	
35.7	9.7		
	101.3	43.0	
19.0	13.5		
	67.0	57.2	
17.2	17.4		

Cu. Yds.
Cu. Yds.
Cu. Yds.
Excav.
Emb.
Emb. + 25%
Waste

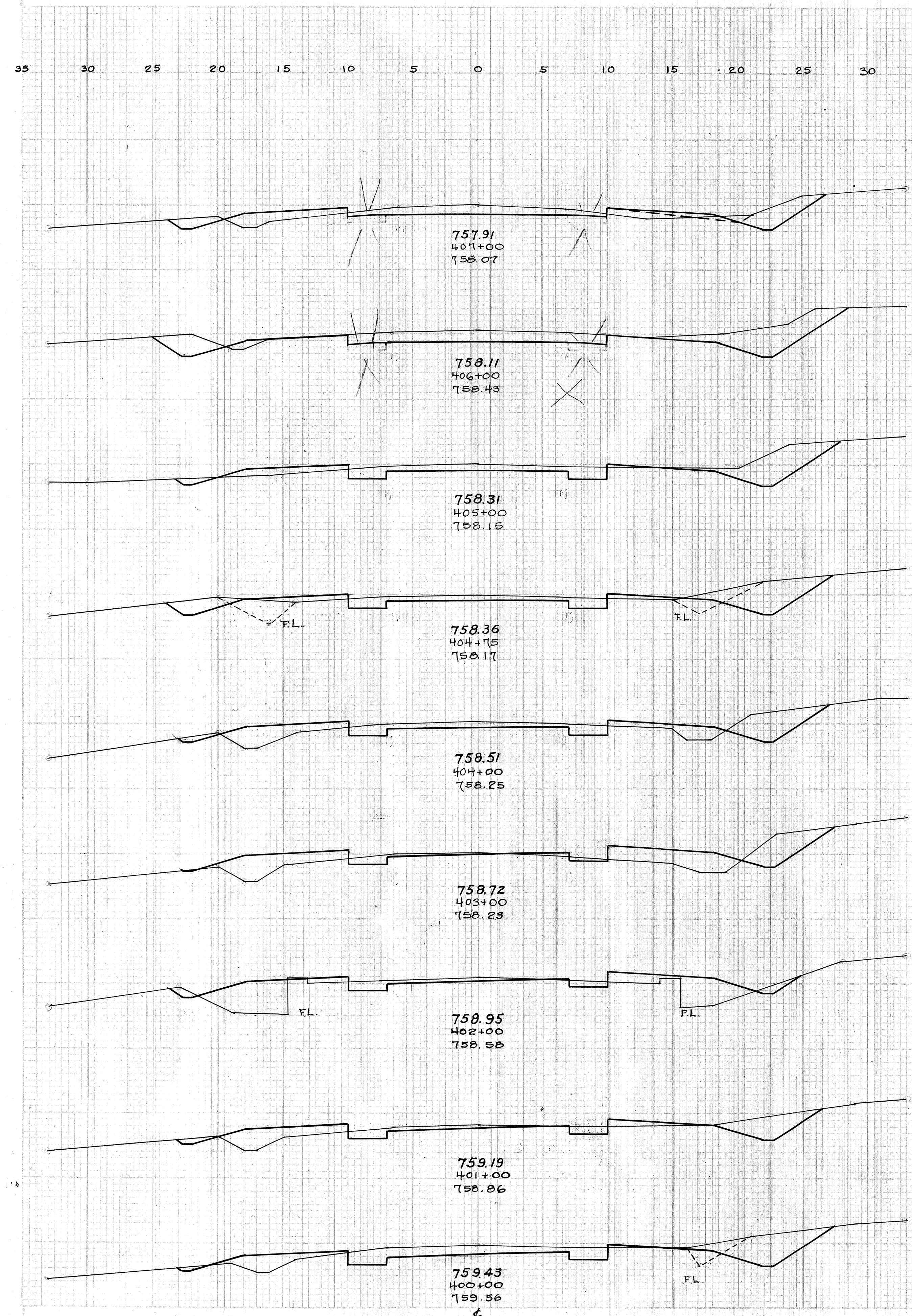
721.9
574.6
718.3
5.6

392+00

FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		1930

35
46

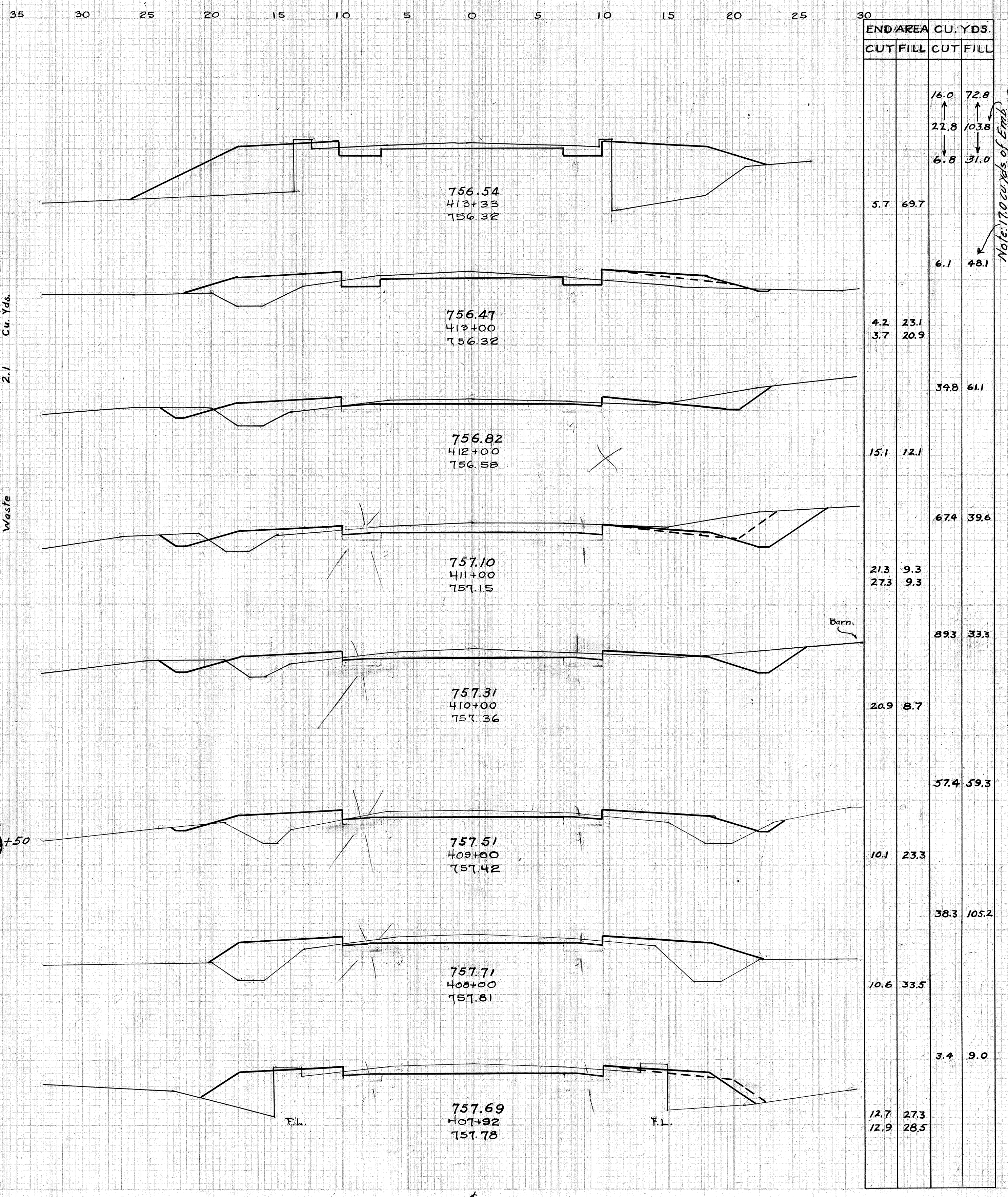
S.H.(I.C.H.)288 SEC.-F.
LORAIN CO.



END AREA	CU. YDS.	CUT	FILL	CUT	FILL
21.7	4.6	31.0	5.3		
139.8	11.9				
44.5	1.1				
120.2	11.1				
204	4.9				
21.0	3.9				
25.1	3.5	21.5	11.0		
54.8	34.2				
18.0	12.8				
54.8	66.7				
11.6	23.2				
17.0	43.6	34.3	87.8		
6.9	24.2	17.3	44.2		
37.4	65.7				
13.3	11.3				
67.2	31.3				
23.0	5.6	20.4	7.0		

Excav. Emb. Waste
770.1
614.4
768.0
2.1

+50



END AREA	CU. YDS.	CUT	FILL	CUT	FILL
16.0	72.8	22.8	103.8		
5.7	69.7	6.8	31.0		
4.2	23.1	3.7	20.9		
39.8	61.1				
15.1	12.1				
674	39.6				
21.3	9.3	27.3	9.3		
893	33.3				
20.9	8.7				
57.4	59.3				
10.1	23.3				
38.3	105.2				
10.6	33.5				
3.4	9.0				
12.7	27.3	12.9	28.5		

Note: 170 cu yds of Emb. excluded for culvert

+54

ORIGINAL SURVEY PLATS, NOTES, RECORDS, FIELD BOOKS, FIELD CHECKS

ORIGINAL SURVEY PLATS, NOTES, RECORDS, FIELD BOOKS, FIELD CHECKS

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DATE: _____
 BY: _____
 ORIGINAL SURVEY PLOTTED _____
 NOTE BOOK _____
 FILE NO. _____

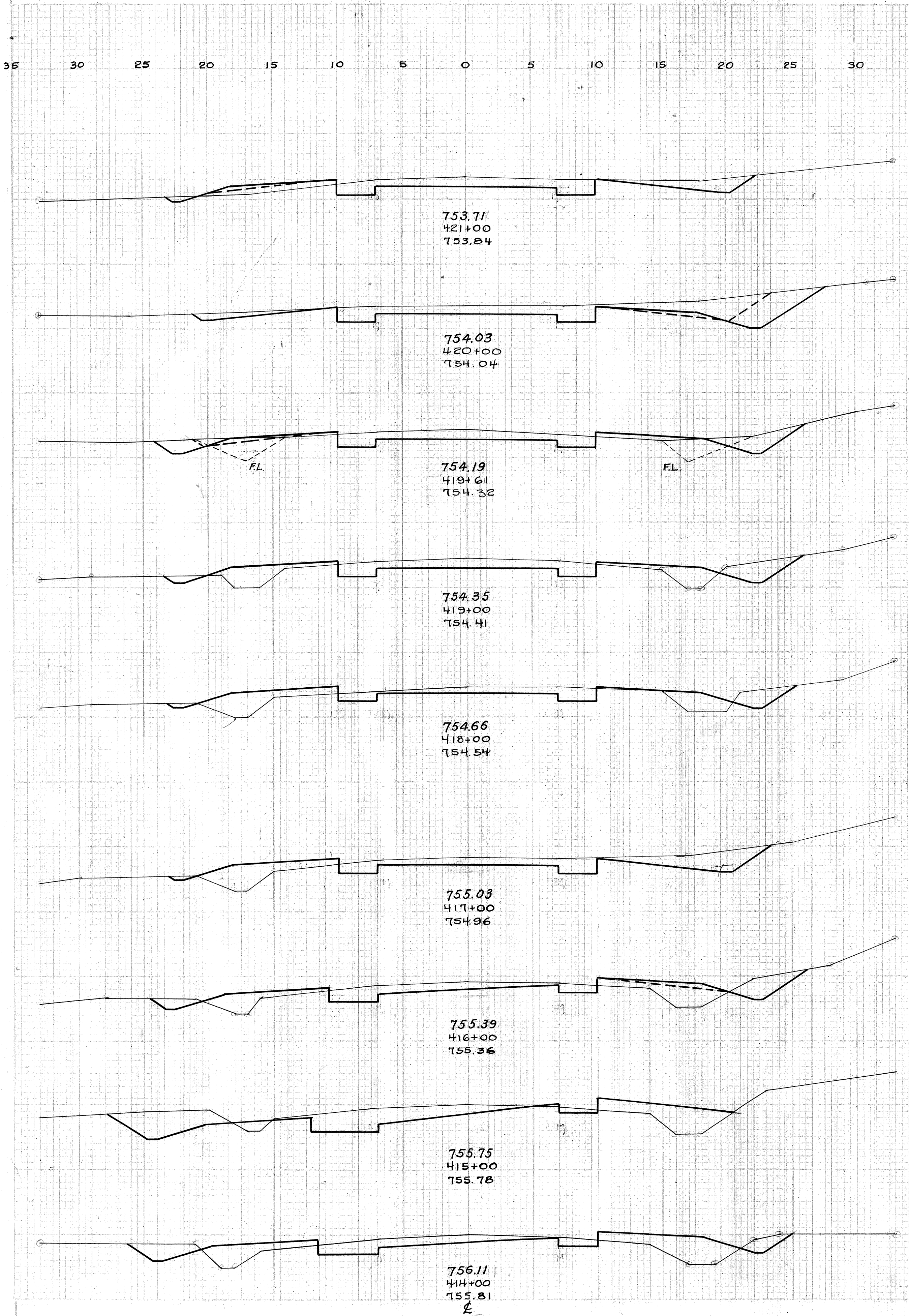
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 BY: _____
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 NOTE BOOK _____
 FILE NO. _____

FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		1930

36
46

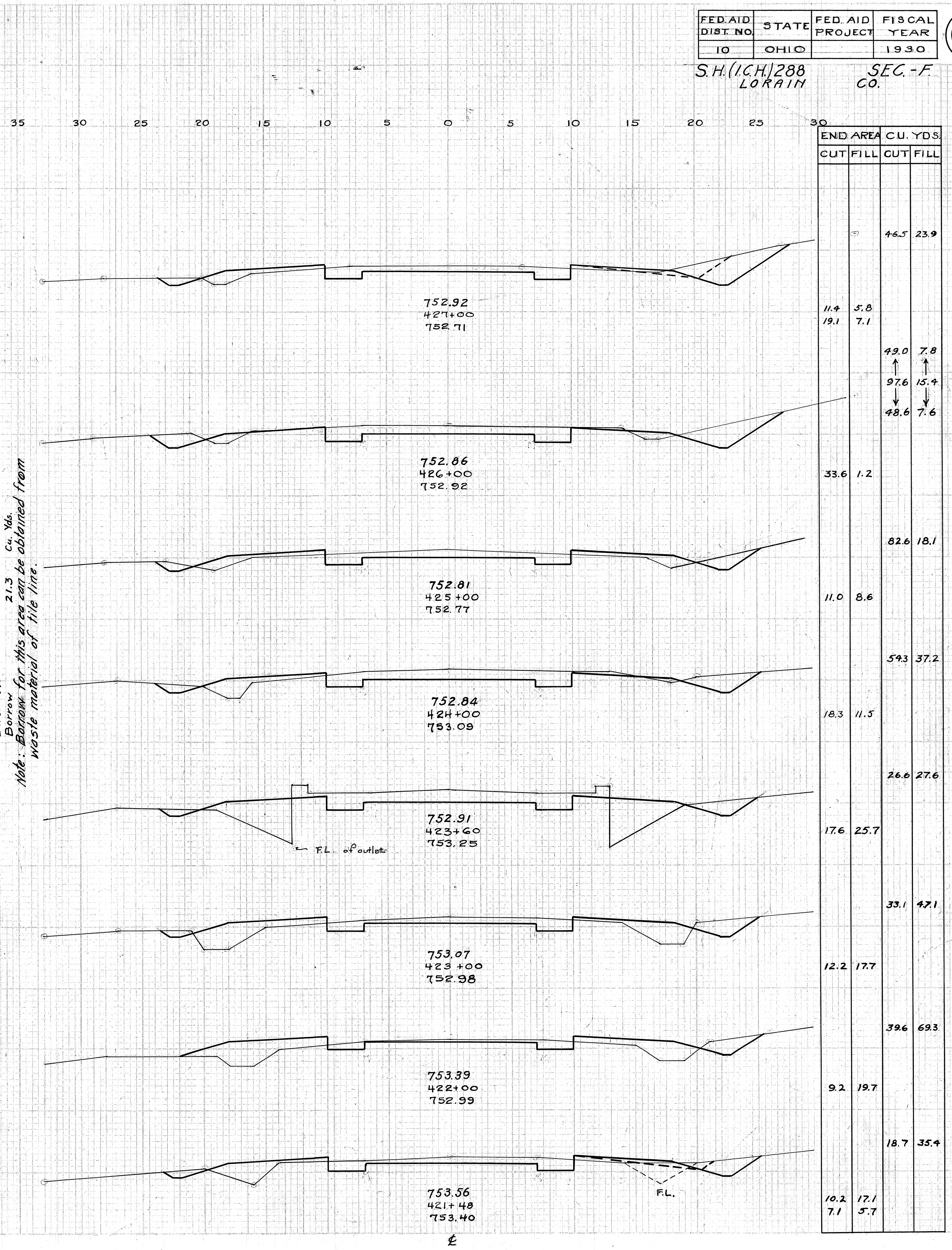
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LORAIN

SEC.-F
CO.



END AREA		CU. YDS	
CUT	FILL	CUT	FILL
		18.0	10.6
13.2	6.4		
12.7	3.4		
		63.0	6.3
21.3	0.0		
28.8	0.0		
		32.3	1.5
15.9	2.0		
15.3	12.5		
		31.2	32.1
12.3	15.9		
		44.4	52.6
11.7	12.5		
		53.0	43.3
16.9	10.9		
		45.4	32.8
7.6	17.6		
13.9	19.6		
		88.7	62.8
34.0	14.3		
		86.5	64.8
12.7	20.7		

Excav. 478.5
 Emb. 399.8
 Borrow 21.3
 Waste material of this line.



END AREA		CU. YDS	
CUT	FILL	CUT	FILL
		46.5	23.9
11.4	5.8		
19.1	7.1		
		49.0	7.8
		97.6	15.4
		48.6	7.6
		33.6	1.2
		82.6	18.1
11.0	8.6		
		54.3	37.2
18.3	11.5		
		26.6	27.6
		17.6	25.7
		33.1	47.1
12.2	17.7		
		39.6	69.3
9.2	19.7		
		18.7	35.4
10.2	17.1		
7.1	5.7		

+50

+48

Excav. 503.5
 Emb. 242.3
 Borrow 302.9
 Waste 0.6

35 30 25 20 15 10 5 0 5 10 15 20 25 30 35

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
99.1	59.6		
23.0	13.5		
79.3	55.0		
19.8	16.2		
71.1	51.3		
18.6	11.5		
10.1	8.8		
27.4	42.8		
4.7	14.3		
11.8	16.3		
50.0	51.3		
15.2	11.4		
9.0	5.6		
17.1	8.9		
6.6	8.9		
4.2	5.1		
6.0	9.3		
3.8	5.4		
6.0	8.4		
18.0	8.4		
38.3	15.4		
23.4	8.3		
13.7	7.1		

Excav. Cu Yds. 821.8
 Emb. Cu Yds. 676.8
 Emb. + 25% Cu Yds. 846.0
 Borrow for this area can be obtained from waste material of tile line.

FEDAID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		1930

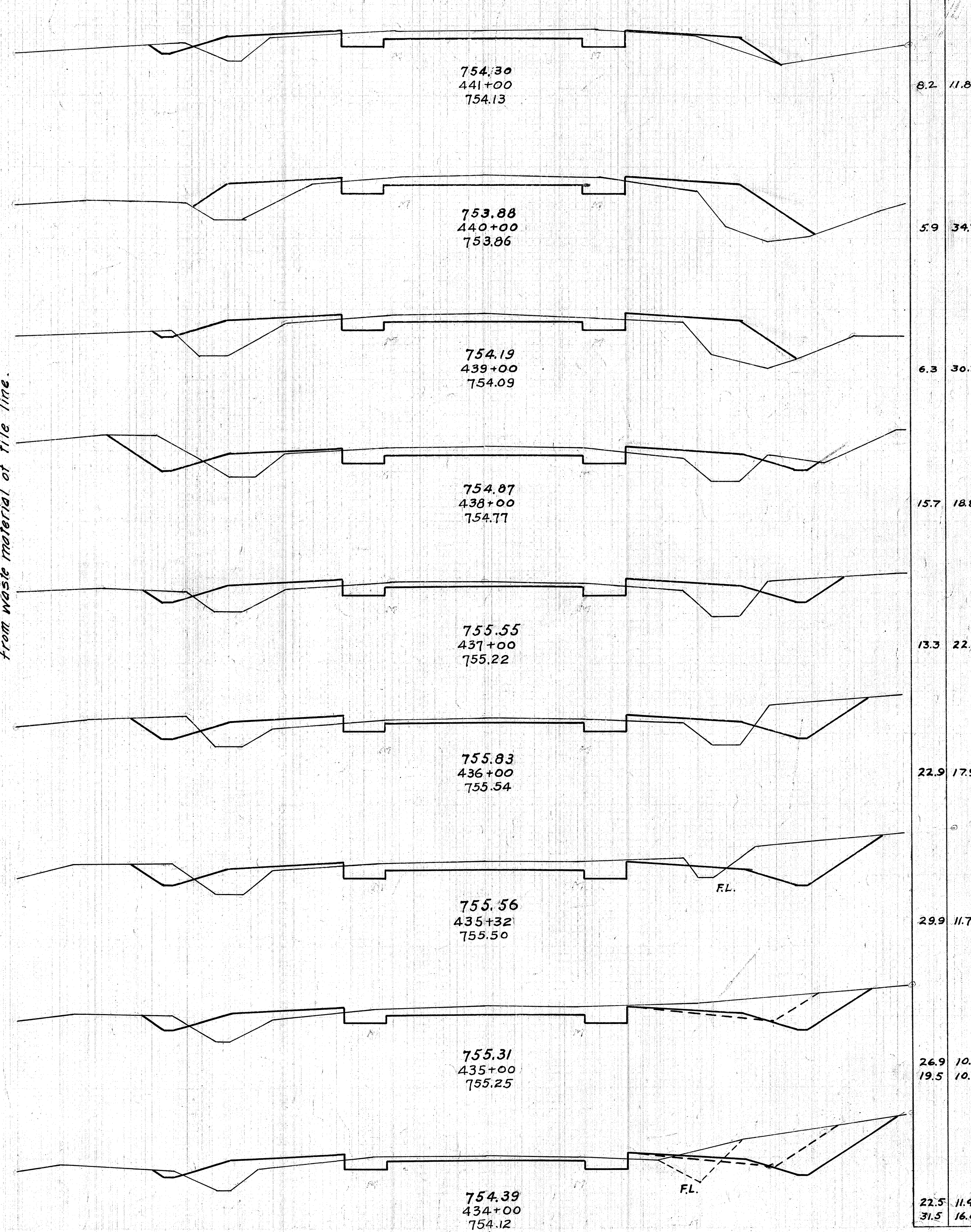
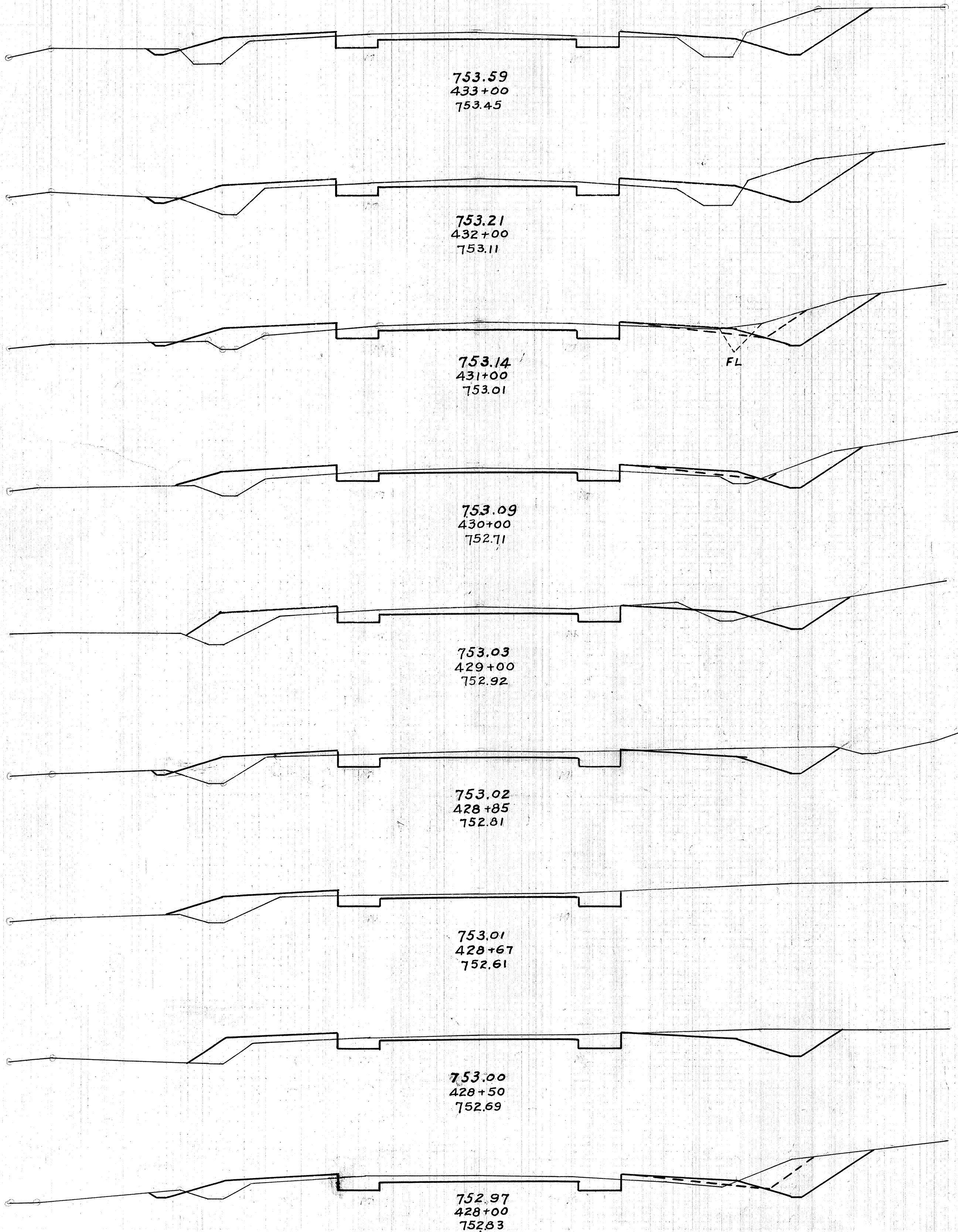
S.H.(I.C.H.)288 LORAIN CO. SEC.-F.

37
46

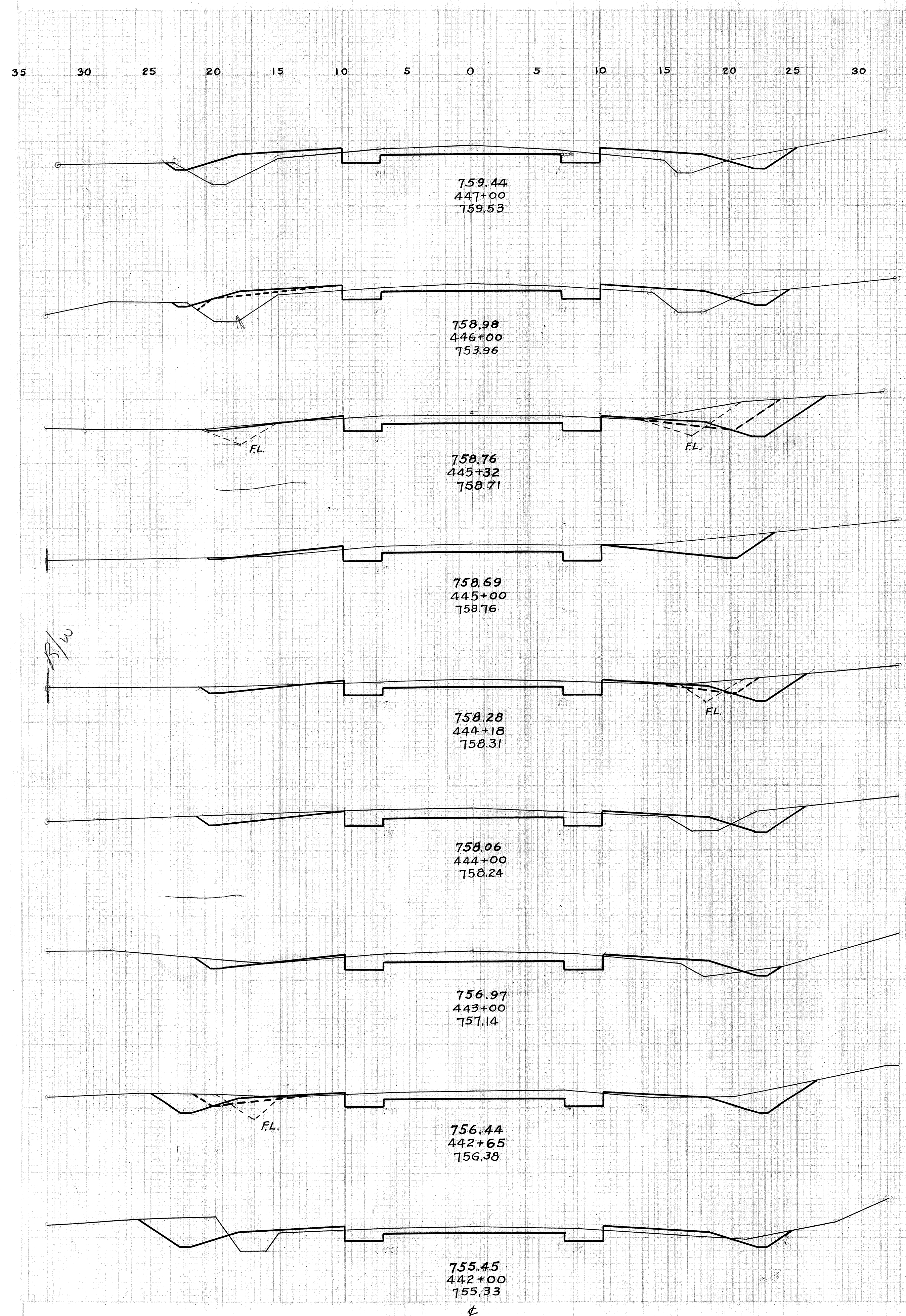
35 30 25 20 15 10 5 0 5 10 15 20 25 30 35

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
49.1	40.9		
8.2	11.8		
26.1	77.5		
5.9	34.7		
17.9	95.4		
22.6	120.4		
4.7	25.0		
6.3	30.3		
40.7	90.9		
15.7	18.8		
53.7	77.0		
13.3	22.8		
67.0	75.4		
22.9	17.9		
66.5	37.3		
29.9	11.7		
33.7	13.0		
24.9	10.2		
19.5	10.2		
77.8	40.0		
22.5	11.4		
31.5	16.0		

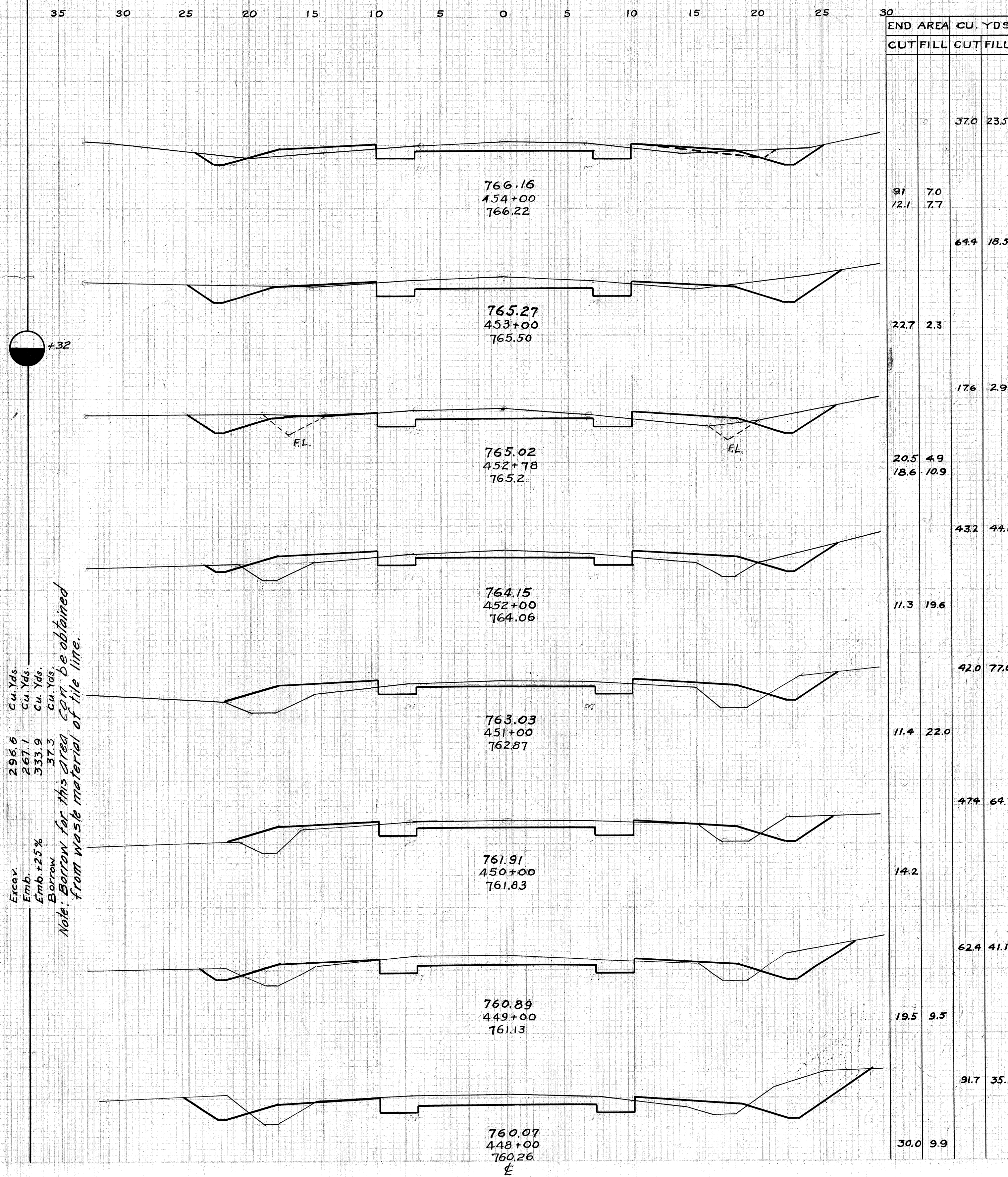
Note: 8.6 Cu Yds. of Emb. deducted for Culvert.



+21



END AREA CU. YDS.		CUT FILL CUT FILL	
75.0	54.3		
10.5	19.4		
35.7	75.9		
8.8	21.6		
8.6	19.1		
38.8	36.0		
22.2	9.5		
18.3	0.8		
22.0	1.6		
18.9	1.9		
49.2	3.5		
15.4	0.4		
17.0	3.0		
11.9	2.7		
18.6	5.0		
55.6	19.3		
11.4	5.4		
18.9	5.2		
17.7	2.6		
19.4	7.2		
45.6	21.0		
18.5	10.3		



END AREA CU. YDS.		CUT FILL CUT FILL	
		37.0	23.5
91	7.0		
12.1	7.7		
		64.4	18.5
22.7	2.3		
		17.6	2.9
20.5	4.9		
18.6	10.9		
		43.2	44.1
		42.0	77.0
11.4	22.0		
		47.4	64.3
14.2			
		62.4	41.1
19.5	9.5		
		91.7	35.3
30.0	9.9		

+32

Excav. 296.6 cu. Yds.
Emb. 267.1 cu. Yds.
Emb.+25% 333.9 cu. Yds.
Borrow 37.3 cu. Yds.
Note: Borrow for this area can be obtained from waste material of tile line.

Excav. 689.4 cu. Yds.
Emb. 563.8 cu. Yds.
Emb.+25% 704.8 cu. Yds.
Borrow 15.4 cu. Yds.
Note: Borrow for this area can be obtained from waste material of tile line.

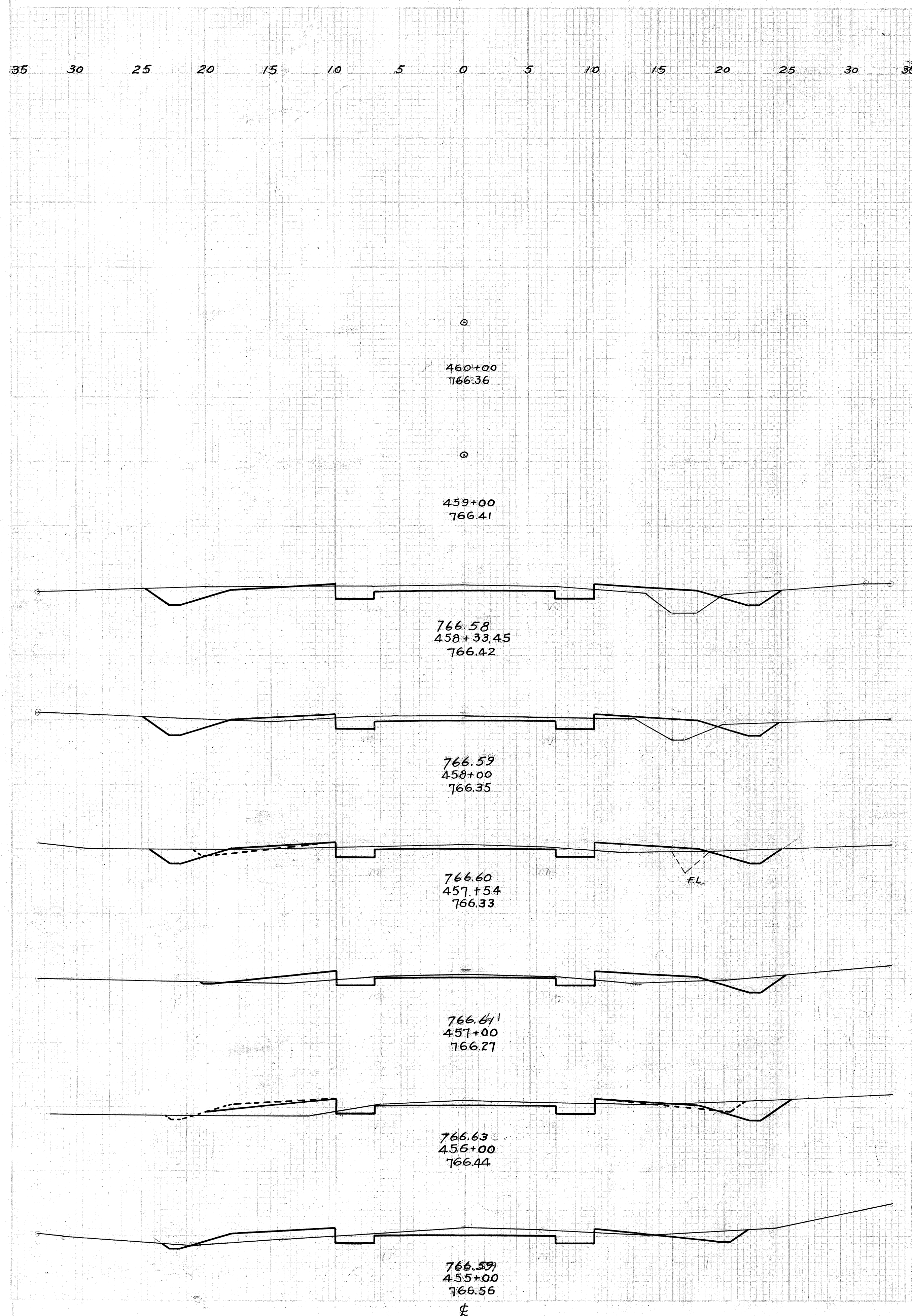
DATE
BY
ORIGINAL SURVEY PLOTTED
ROUTE BOOK
AREA CHECKED

DATE
BY
ORIGINAL SURVEY PLOTTED
ROUTE BOOK
AREA CHECKED

FED. AID DIST. NO	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		1930

39
46

S.H. (I.C.H.) 288
LORAIN CO. SEC-F

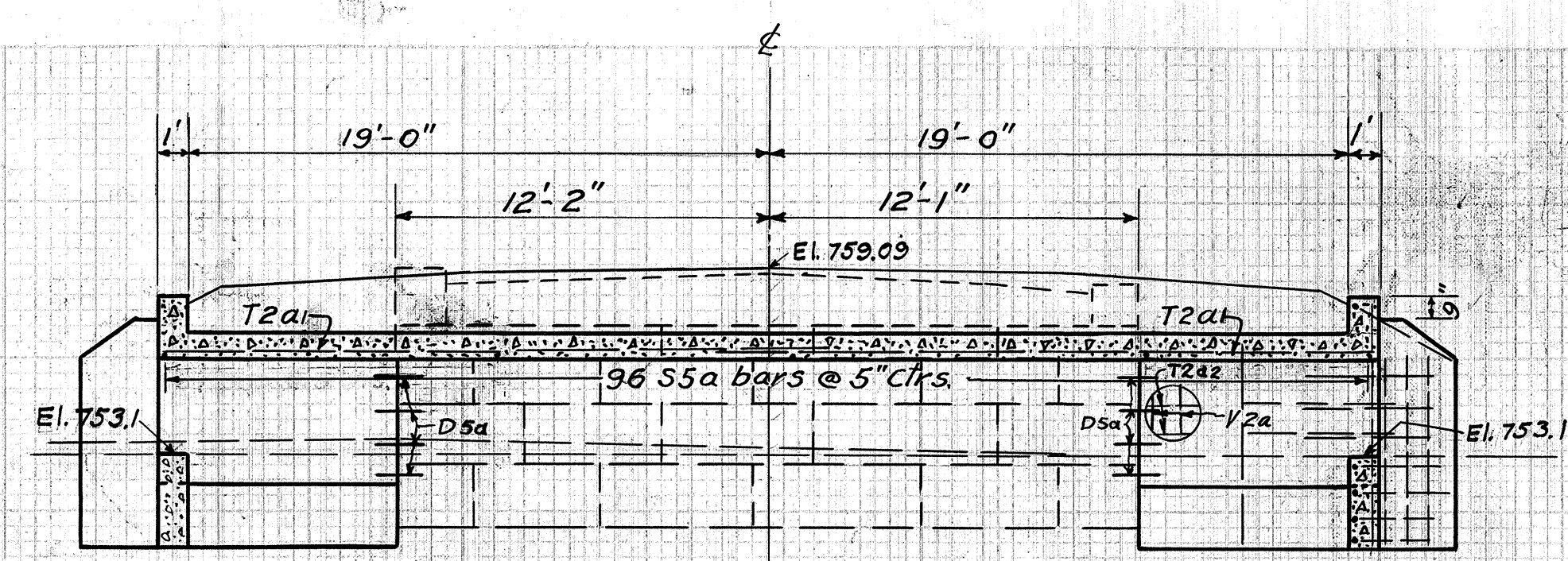


END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
15.7	9.2		
	18.7	11.6	
14.0	9.5		
	22.9	14.2	
12.9	7.2		
10.7	3.6		
	20.3	10.7	
9.6	7.1		
	37.6	26.8	
10.7	7.9		
8.0	8.9		
	35.0	27.0	
10.9	5.7		

+33.45

FINAL SURVEYED
 SURVEY
 PROJECT
 NOTE BOOK
 AREA

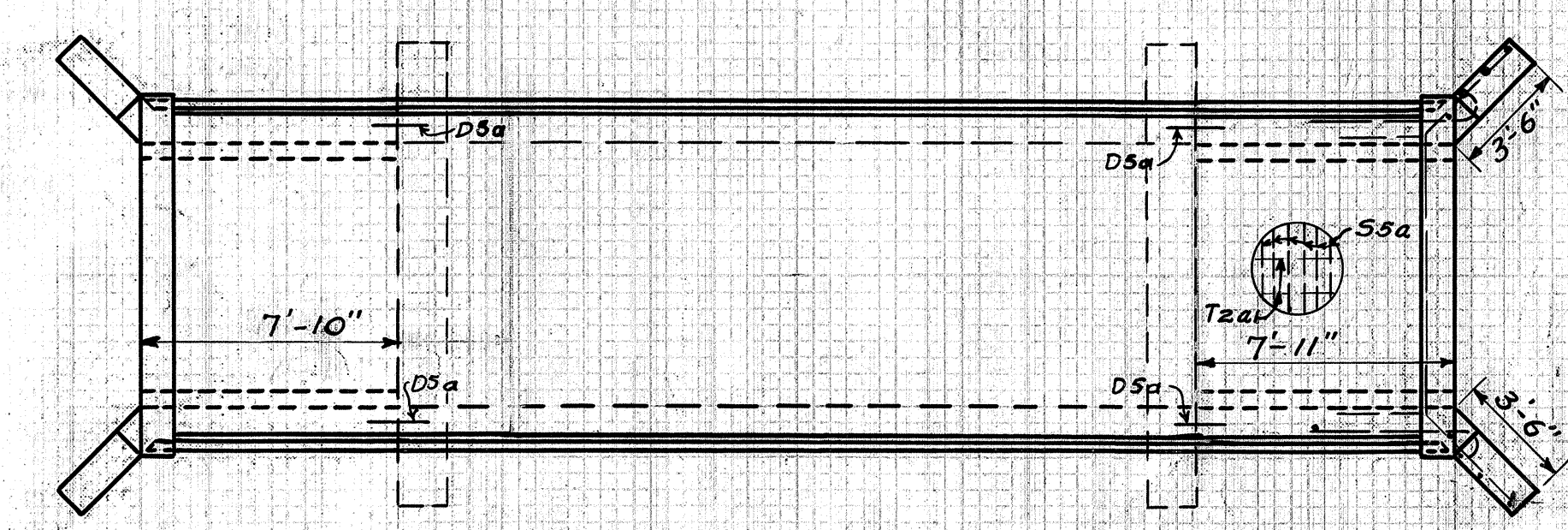
FINAL SURVEYED
 SURVEY
 PROJECT
 NOTE BOOK
 AREA



Mark	Size	Lgth.	Num.	Wt.	Sp'g
S5a	3/4" φ	9'-6"	96	1370	5"
T2a1	1/2" φ	21'-0"	18	253	12"
T2a2	1/2" φ	7'-6"	16	81	12"
W2a	1/2" φ	9'-0"	20	120	12"
W2b	1/2" φ	5'-9"	12	46	12"
W2c	1/2" φ	6'-0"	12	48	12"
W2d	1/2" φ	7'-6"	4	20	Shorn
W2e	1/2" φ	5'-0"	12	40	12"
V2a	1/2" φ	6'-0"	36	144	12"
D5a	3/4" φ	2'-0"	16	49	12"

Note: D5a bars are not included in the weight of Reinforcing Steel listed.

See Standard Drawing SC-A for sizes and location of Reinforcing Steel.

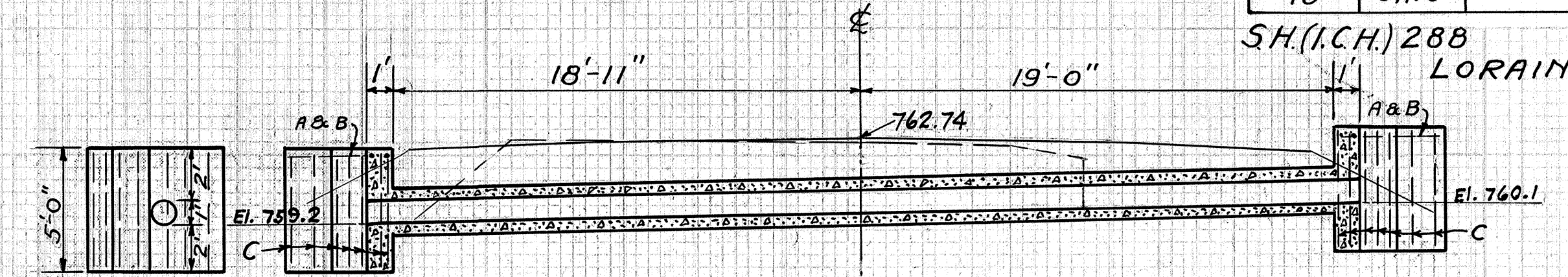


CULVERT DATA
 Type - Concrete & Stone Slab Top
 Size - 8'-0" x 3'-2" x 40'-0"
 Work Required - Remove present headwalls and cover slab.
 Extend both ends with Standard Slab Top Culvert - Span 8'-0" Clear Height 3'-2" with cut off walls at each end.
 Repoint old Stone Masonry.

ESTIMATED QUANTITIES

Excavation	65 Cu. yds.
1:5 1/2 Concrete (Slab)	13 2/3 Cu. yds. ✓
1:5 1/2 Concrete (Wall)	9 2/3 Cu. yds. ✓
1:6 1/2 Concrete (Footers)	4 3/4 Cu. yds. ✓
Reinforcing Steel	2122 Lbs. ✓
Repointing Stone Masonry	160 Sq. ft.
Removing old Masonry	13 2/3 Cu. yds.
Dowels - (3/4" φ x 24" D5a)	16 Pcs.

NO. 1 Sta. 278+85



Reinforcing Steel

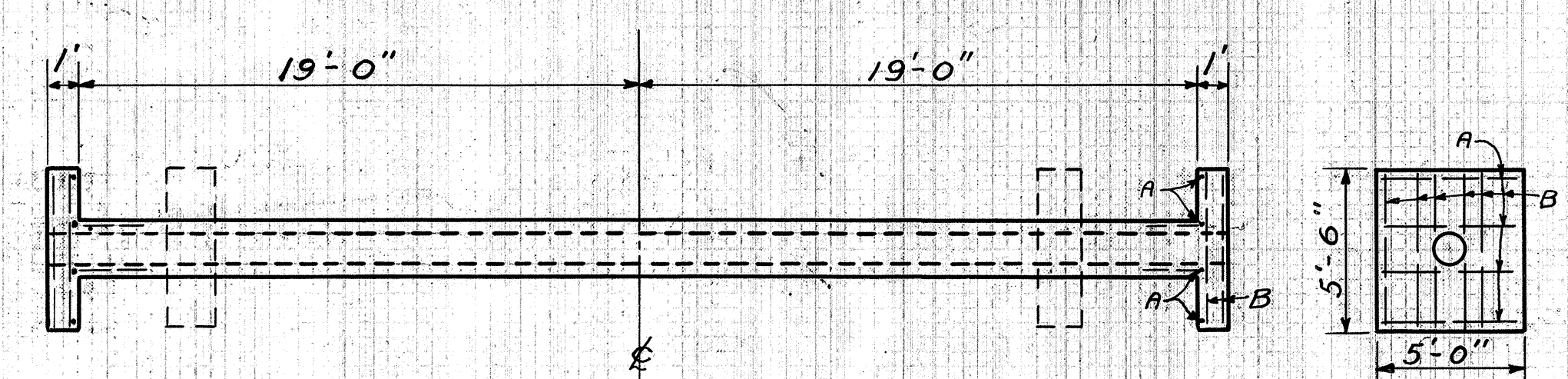
- 2-A bars - 1/2" φ - 7'-0" Long
- 2-B bars - 1/2" φ - 8'-0" Long
- 16-C bars - 1/2" φ - 4'-0" Long

CULVERT DATA
 Type - Vitrified Sewer Pipe
 Size - 12" x 54"
 Work Required - Remove present 12" x 26" Vitrified & Cast Iron Pipe Place and encase 54' of 12" Vitrified Sewer Pipe and build 2 Standard Side Road Headwalls.

ESTIMATED QUANTITIES

Excavation	20 Cu. yds.
1:5 1/2 Concrete (Headwalls)	2 2/3 Cu. yds. ✓
1:8 Concrete (Encasing)	5 2/3 Cu. yds. ✓
Reinforcing Steel	60 Lbs. ✓
12" Vitrified Sewer Pipe	54 Lin. ft. ✓
Removing 12" Pipe	26 Lin. ft. ✓

No. 3 Sta. 299+05



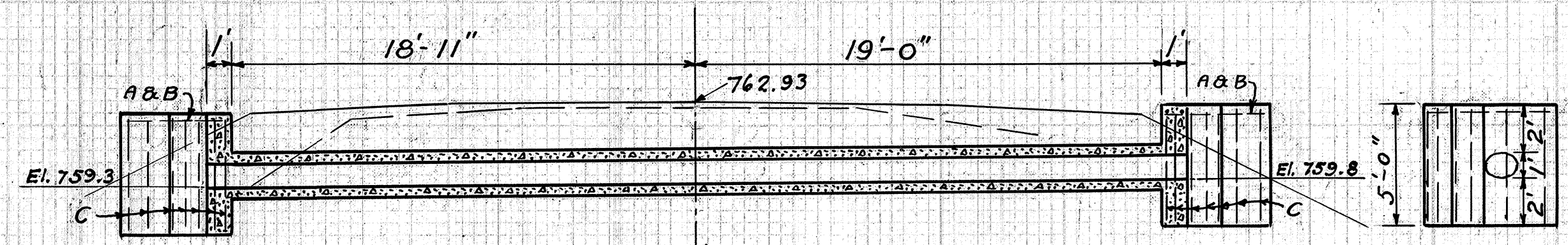
Reinforcing Steel
 8-A bars - 1/2" φ - 4'-6" Long.
 12-B bars - 1/2" φ - 5'-0" Long.

CULVERT DATA
 Type - Vitrified Sewer Pipe
 Size - 12" x 40"
 Work Required - Remove present 12" x 30" Corrugated Pipe and Stone Headwalls. Place and encase 40' of 12" Vitrified Sewer Pipe and build 2 Standard Concrete Headwalls. Removal of present 12" Corrugated Pipe included in excavation.

ESTIMATED QUANTITIES

Excavation	14 Cu. yds.
1:5 1/2 Concrete (Headwalls)	2 2/3 Cu. yds. ✓
1:8 Concrete (Encasing)	4 1/4 Cu. yds. ✓
Reinforcing Steel	65 Lbs. ✓
12" Vitrified Sewer Pipe	40 Lin. ft. ✓
Removing Old Masonry	3 2/3 Cu. yds.

No. 2 Sta. 291+97



Reinforcing Steel

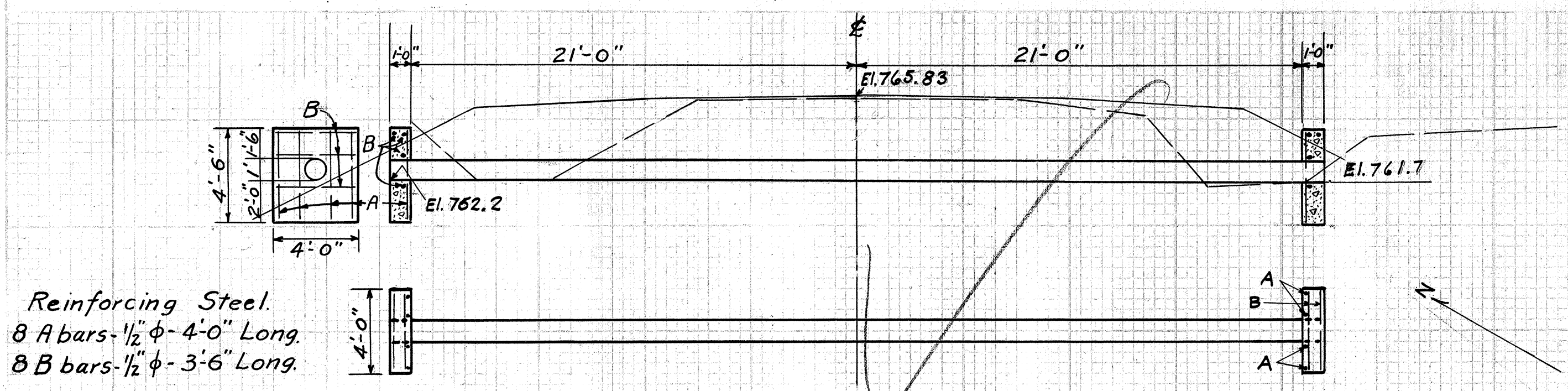
- 2-A bars - 1/2" φ - 7'-0" Long.
- 2-B bars - 1/2" φ - 8'-0" Long.
- 16-C bars - 1/2" φ - 4'-0" Long.

CULVERT DATA
 Type - Vitrified Sewer Pipe
 Size - 12" x 54"
 Work Required - Place and encase 54' of 12" Vitrified Sewer Pipe and build 2 Standard Side Road Headwalls. Remove 12" Wood Box Culvert.

ESTIMATED QUANTITIES

Excavation	25 Cu. yds.
1:5 1/2 Concrete (Headwalls)	2 2/3 Cu. yds. ✓
1:8 Concrete (Encasing)	5 2/3 Cu. yds. ✓
Reinforcing Steel	60 Lbs. ✓
12" Vitrified Sewer Pipe	54 Lin. ft. ✓

No. 4 Sta. 299+36



Reinforcing Steel
8 A bars - 1/2" φ - 4'-0" Long
8 B bars - 1/2" φ - 3'-6" Long

CULVERT DATA

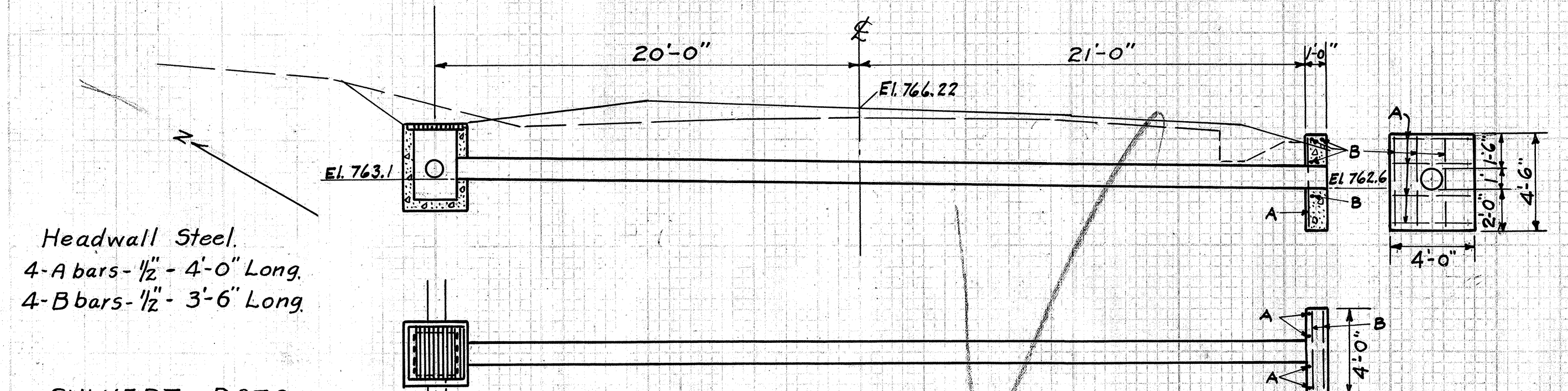
Type - Cast Iron Pipe
Size - 12" x 44'

Work Required - Remove present 12" x 24" Cast Iron Pipe from Sta. 322+92 and relay at Sta. 322+75. Place 20' of 12" Sectional Cast Iron Pipe and build 2 Standard Headwalls.

ESTIMATED QUANTITIES

Excavation 25 Cu. yds.
1:5 1/2 Concrete 13 Cu. yds.
Reinforcing Steel 40 Lbs.
12" Sectional Cast Iron Pipe 20 Lin. ft.
12" Solid Cast Iron Pipe (Relaid) 24 Lin. ft.

No. 5 Sta. 322+75



Headwall Steel
4-A bars - 1/2" φ - 4'-0" Long
4-B bars - 1/2" φ - 3'-6" Long

CULVERT DATA

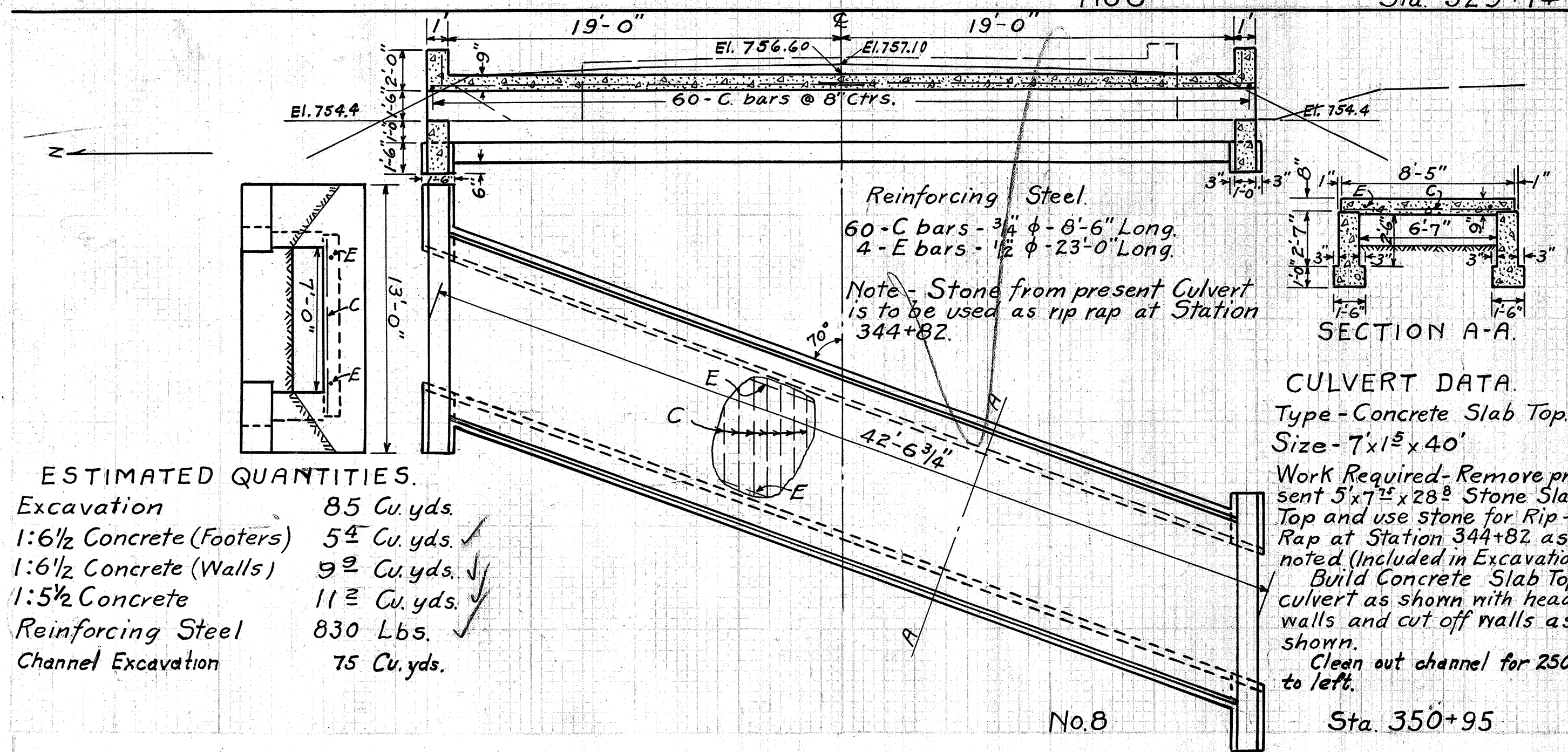
Type - Cast Iron Pipe
Size - 12" x 39'

Work Required - Take up and relay 24' of 12" Solid Cast Iron Pipe. Place 17' of 12" Sectional Cast Iron Pipe and build Standard Concrete Headwall. Build 1 Standard No. 2 Catch Basin with Side Inlets omitted.

ESTIMATED QUANTITIES

Excavation 26 Cu. yds.
1:5 1/2 Concrete (Headwall) 02 Cu. yds.
Reinforcing Steel 20 Lbs.
No. 2 Catch Basin 1
12" Sectional Cast Iron Pipe 17 Lin. ft.
12" Solid Cast Iron Pipe (Relaid) 24 Lin. ft.

No. 6 Sta. 329+74



Reinforcing Steel
60-C bars - 3/4" φ - 8'-6" Long
4-E bars - 1/2" φ - 23'-0" Long

Note - Stone from present Culvert is to be used as rip rap at Station 344+82.

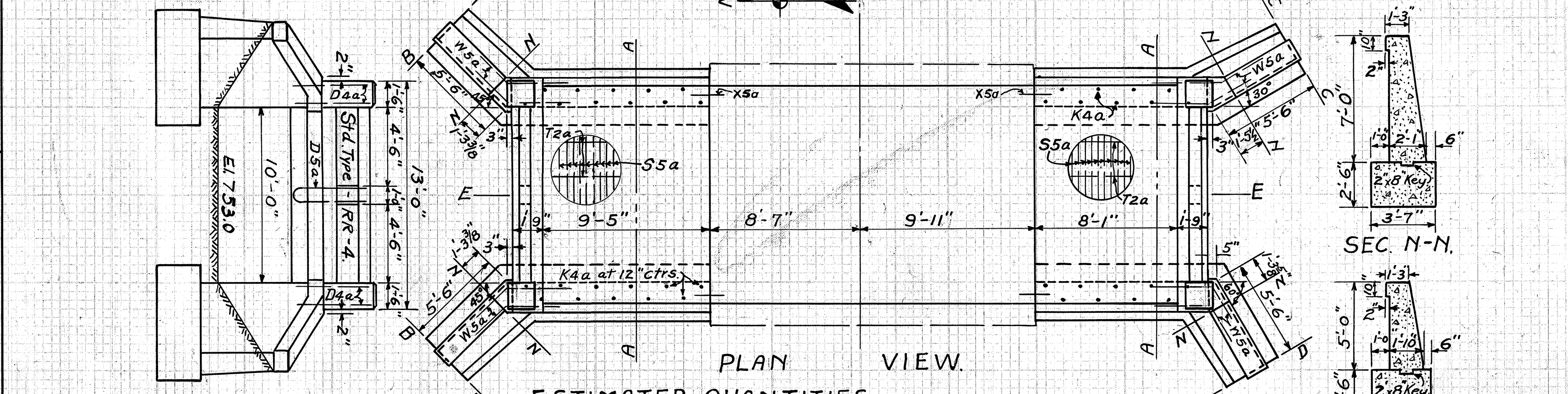
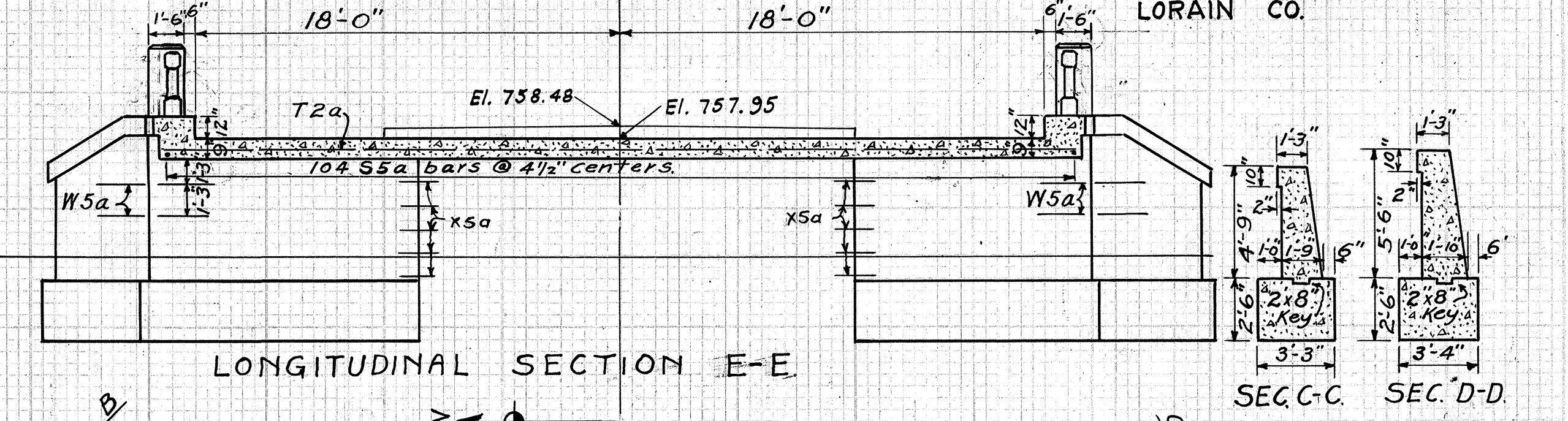
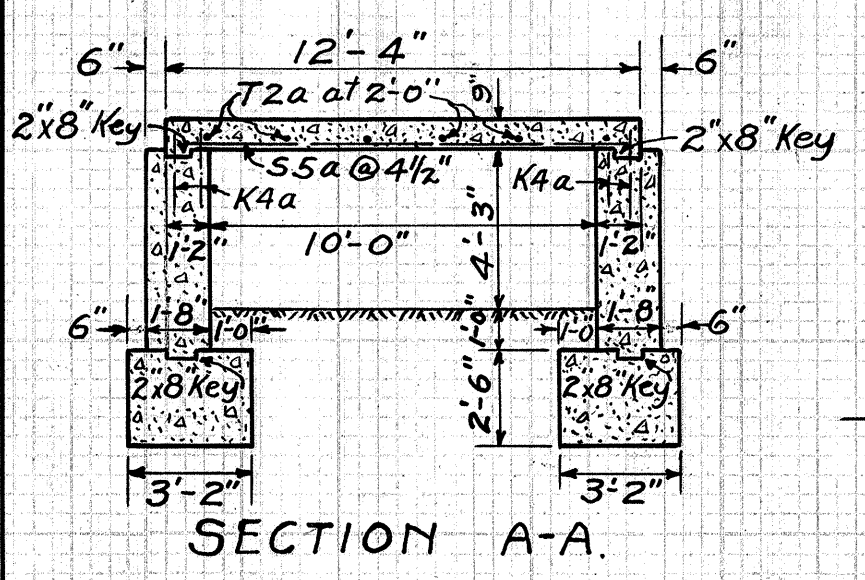
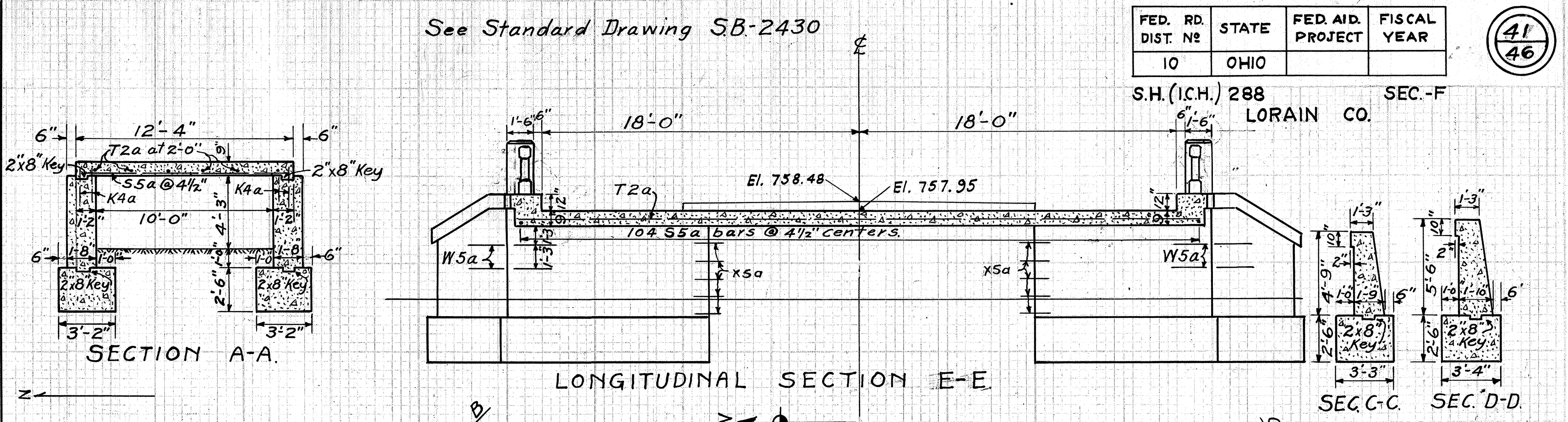
CULVERT DATA

Type - Concrete Slab Top
Size - 7' x 15' x 4'

Work Required - Remove present 5' x 7' x 28" Stone Slab Top and use stone for Rip-Rap at Station 344+82 as noted. (Included in Excavation) Build Concrete Slab Top culvert as shown with headwalls and cut off walls as shown. Clean out channel for 250' to left.

ESTIMATED QUANTITIES
Excavation 85 Cu. yds.
1:6 1/2 Concrete (Footers) 54 Cu. yds.
1:6 1/2 Concrete (Walls) 93 Cu. yds.
1:5 1/2 Concrete 112 Cu. yds.
Reinforcing Steel 830 Lbs.
Channel Excavation 75 Cu. yds.

No. 8 Sta. 350+95



CULVERT DATA

Type - Concrete Slab Top
Size - 5' x 10' H - 9' x 9' Rway, 37'

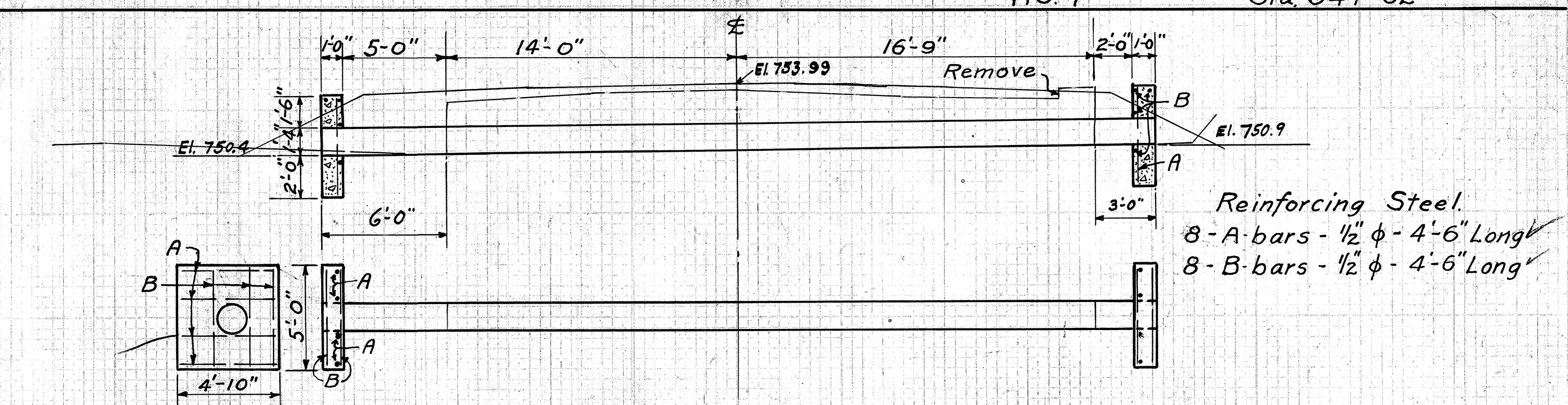
Work Required - Remove present I beam with concrete slab super structure. Extend present stone abutments with concrete abutments and wings as shown. Build concrete slab full width of bridge as shown and place Standard Type RR-4 railing. Place old stone from culvert at Sta. 350+95 as rip rap on slope at South West Wing. Repoint old Masonry.

ESTIMATED QUANTITIES

Excavation 95 Cu. yds.
1:6 1/2 Concrete (Footers) 194 Cu. yds.
1:6 1/2 Concrete (Walls) 169 Cu. yds.
1:5 1/2 Concrete 152 Cu. yds.
Type RR-4 Concrete Railing 26 Lin. ft.
Reinforcing Steel 2552 Lbs.
Removing old Superstructure Lump.
Rip Rap 34 Sq. yds.
Repointing Old Masonry 160 Sq. ft.
Dowels - (3/4" x 24" x 5a) 20 Pcs.

Reinforcing Steel
104-55a bars - 3/4" φ - 13'-0" Long
12-T2a bars - 1/2" φ - 20'-6" Long
16-W5a bars - 3/4" φ - 6'-0" Long
42-K4a bars - 3/8" φ - 2'-0" Long
4-D5a bars - 3/4" φ - 8'-3" Long
8-D4a bars - 3/8" φ - 9'-0" Long
20-X5a bars - 3/4" φ - 2'-0" Long
Note - W5a bars are to be furnished straight and bent in field to fit angles of various wings.
X5a bars are not included in weight of Reinforcing Steel listed.

No. 7 Sta. 344+82



CULVERT DATA

Type - Cast Iron Pipe
Size - 16" x 39'

Work Required - Remove present stone headwall at left end. Extend 6' left and 3' right with 16" Sectional Cast Iron Pipe. Build 2 Standard Concrete Headwalls.

ESTIMATED QUANTITIES

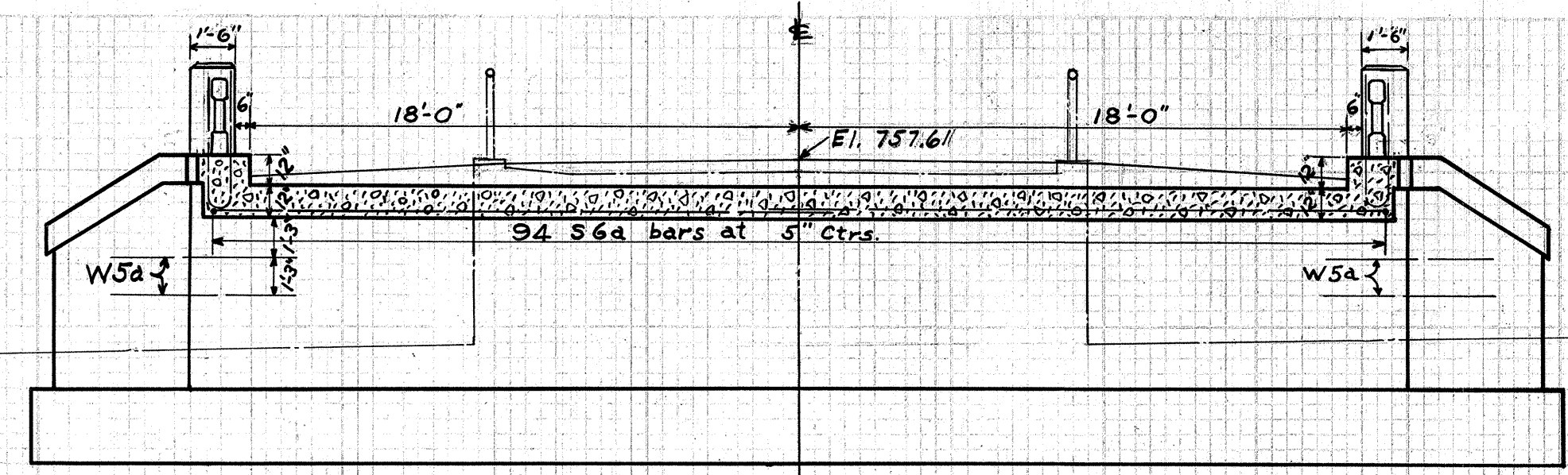
Excavation 4 Cu. yds.
1:5 1/2 Concrete 12 Cu. yds.
Reinforcing Steel 50 Lbs.
16" Sectional Cast Iron Pipe 9 Lin. ft.
Removing Old Stone Masonry 1 Cu. yd.

No. 9 Sta. 356+96

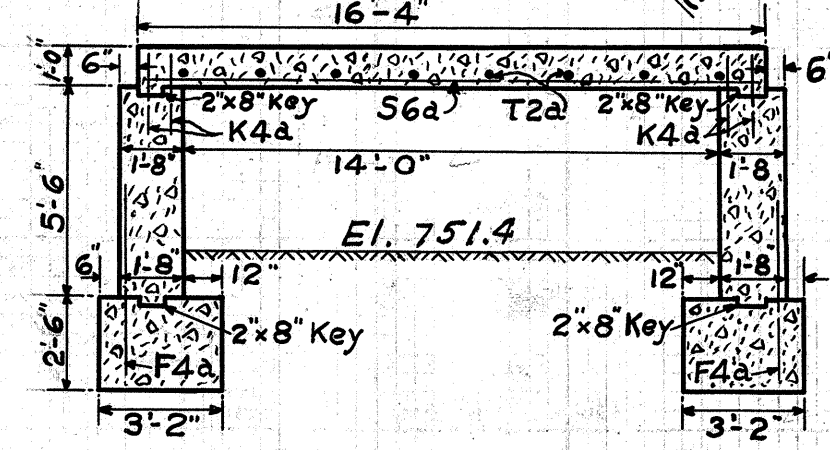
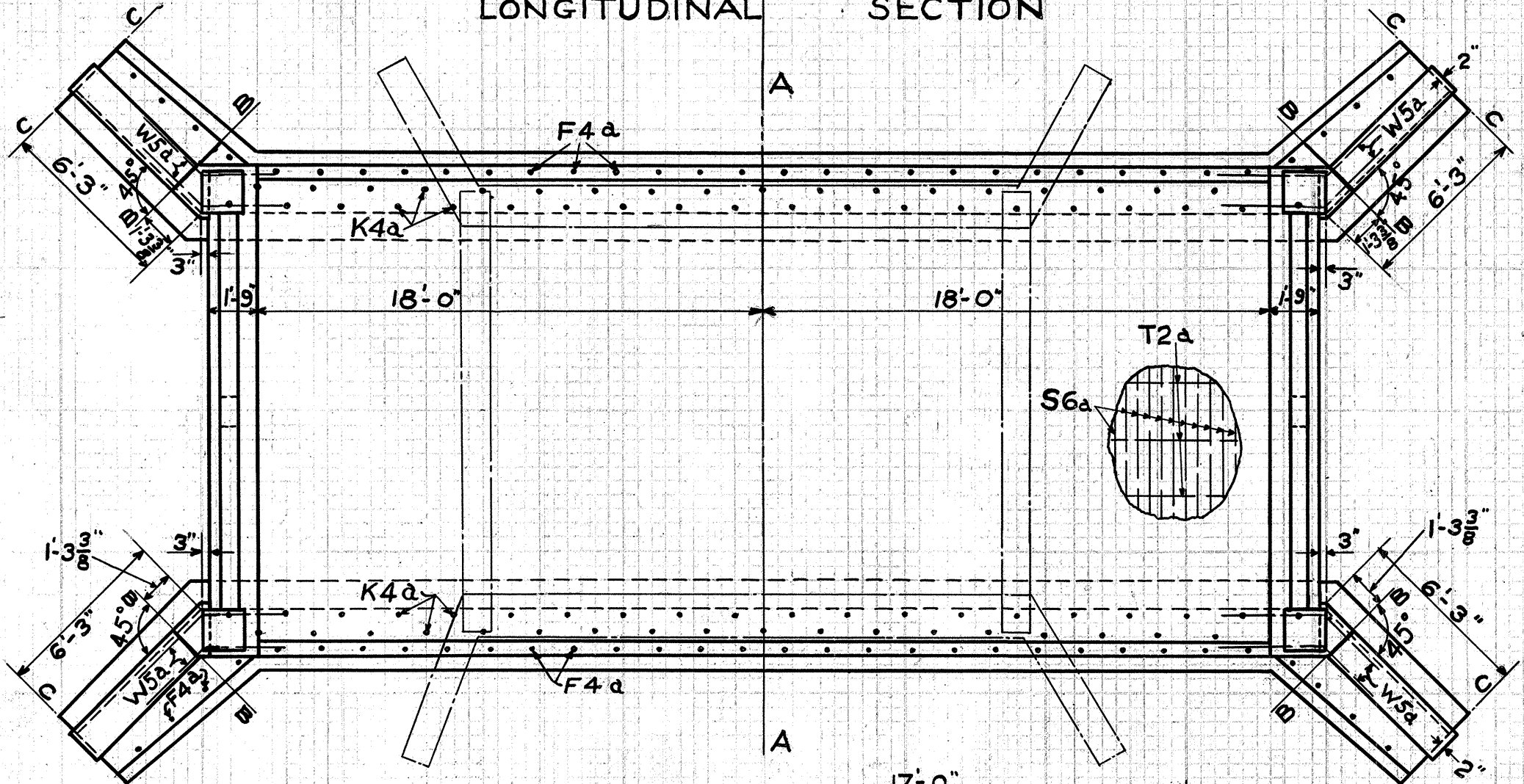
FED. RD. DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		

42
46

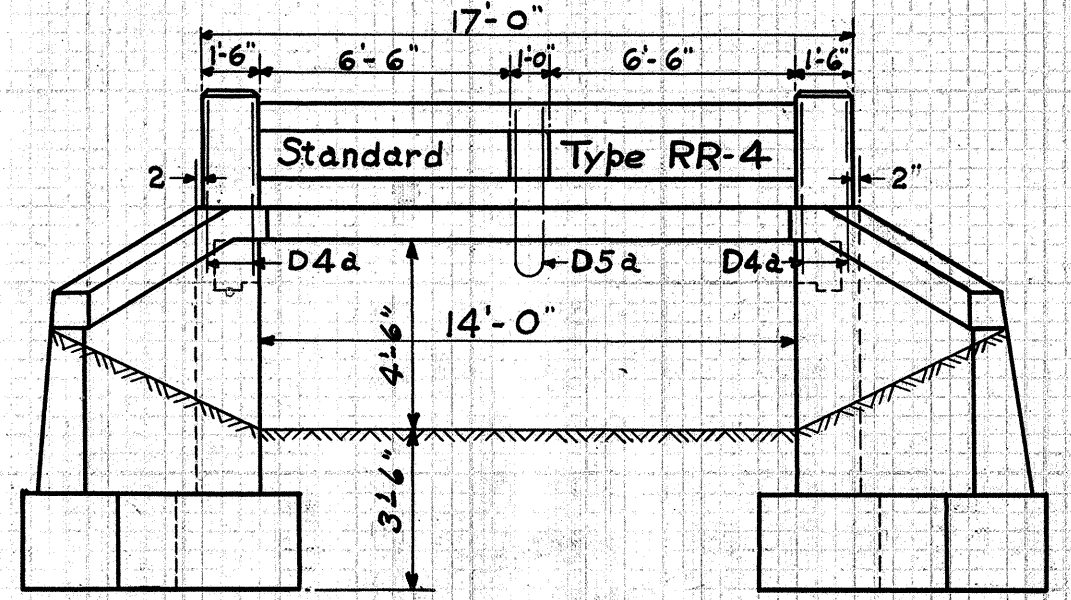
S.H. (I.C.H.) 288 SEC-F
LORAIN CO.



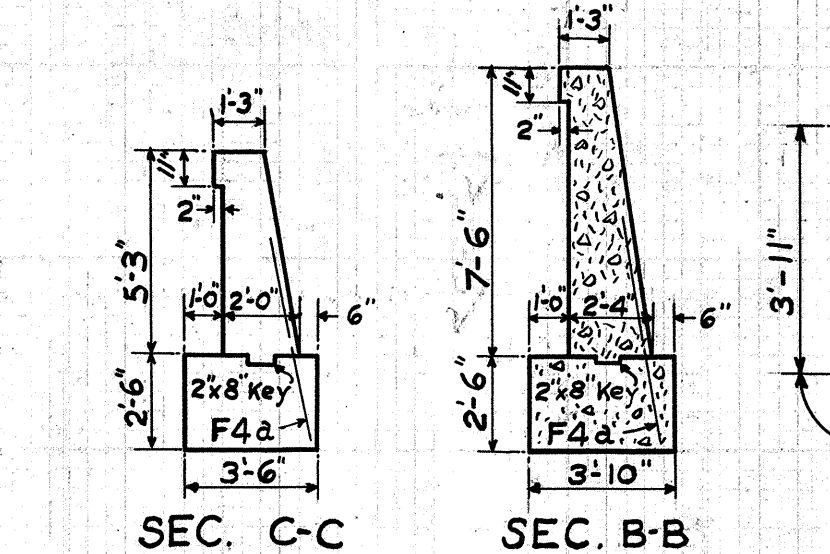
LONGITUDINAL SECTION



SECTION A-A



END ELEVATION



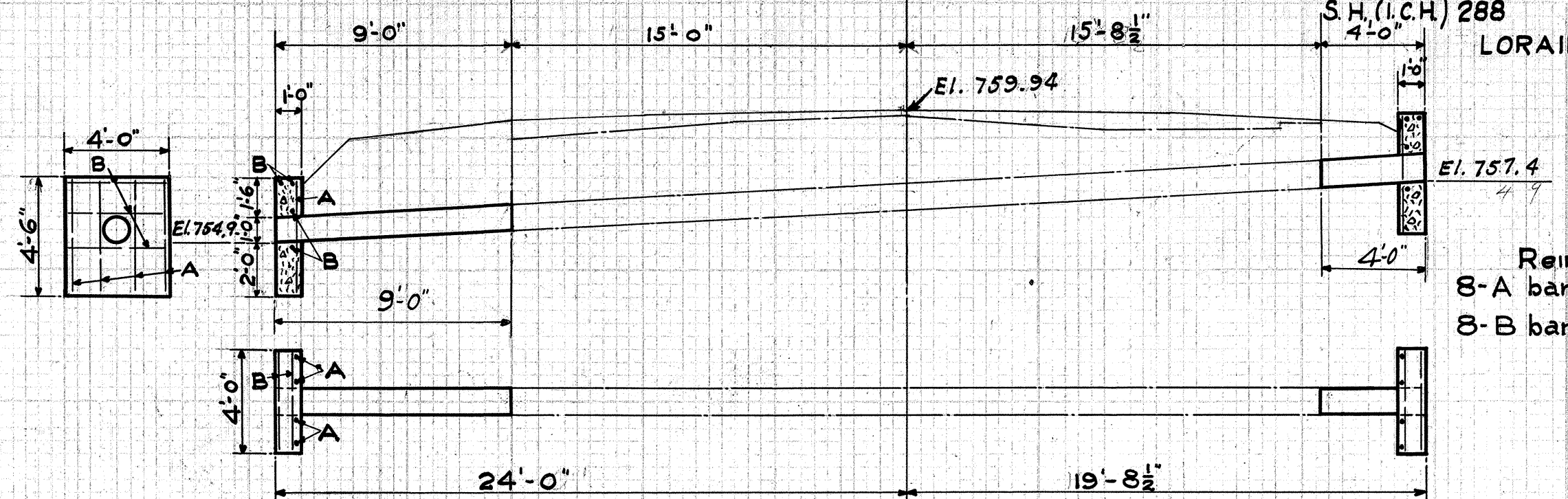
CULVERT DATA

Type - Concrete Slab Top
Size - Span 14'-0" H: 10'-0" R way 37'
Work Required - Remove present I-beam bridge with concrete floor and concrete abutments (sr. 112' R way 18')
Build new concrete slab bridge as shown
Clean out channel 100 feet each way from culvert

ESTIMATED QUANTITIES

Excavation	120 Cu. yds.
1:6 1/2 Concrete (Footers)	31 1/2 Cu. yds.
1:6 1/2 Concrete (Walls)	37 1/2 Cu. yds.
1:5 1/2 Concrete	26 3/4 Cu. yds.
Type RR-4 Concrete Railing	34' Lin. ft.
Reinforcing Steel	4290 lbs.
Removing Old Superstructure	Lump
Removing Old Masonry	30 Cu. yds.
Channel Excavation	60 Cu. yds.

No 10 Sta. 382+07



CULVERT DATA

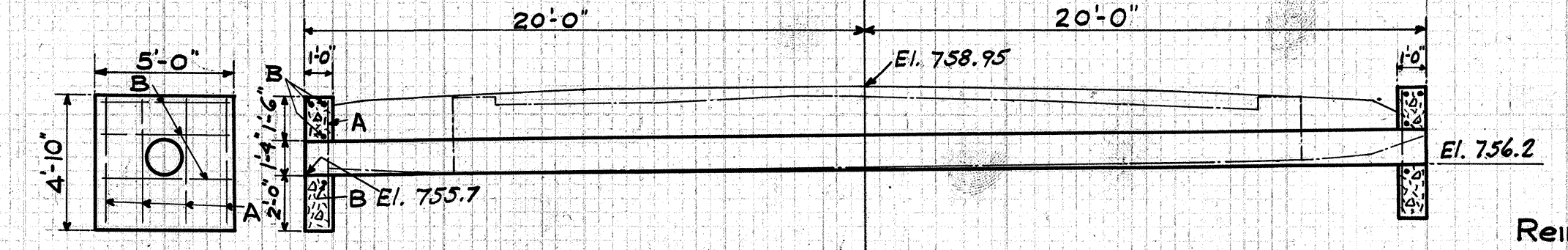
Type - Cast Iron Pipe
Size - 12" x 43'
Work Required - Extend present 12" x 30" Cast Iron Pipe - 9' left and 4' right with 12" Sectional Cast Iron Pipe and build 2 Standard Concrete Headwalls

ESTIMATED QUANTITIES

Excavation	5 Cu. yds.
1:5 1/2 Concrete	1 1/2 Cu. yds.
Reinforcing Steel	40 lbs.
12" Sectional Cast Iron Pipe	13 Lin. ft.

Reinforcing Steel
8-A bars - 1/2" phi - 4'-0" long
8-B bars - 1/2" phi - 3'-6" long

No 11 Sta. 397+80



CULVERT DATA

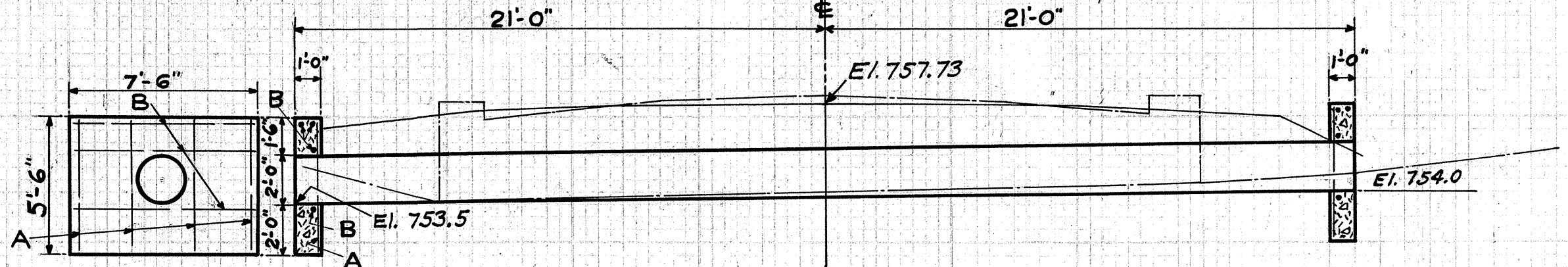
Type - Cast Iron Pipe
Size - 16" x 40'
Work Required - Remove present 15" x 30" Corrugated Pipe (included in Excavation)
Place 40' of 16" Sectional Cast Iron Pipe and build 2 Standard Concrete Headwalls.
Clean out channel 50 feet to left.

ESTIMATED QUANTITIES

Excavation	17 Cu. yds.
1:5 1/2 Concrete	1' Cu. yds.
Reinforcing Steel	50 lbs.
16" Sectional Cast Iron Pipe	40 Lin. ft.
Channel Excavation	7' Cu. yds.

Reinforcing Steel
8-A bars - 1/2" phi - 4'-6" long
8-B bars - 1/2" phi - 4'-6" long

No 12 Sta. 402+00



CULVERT DATA

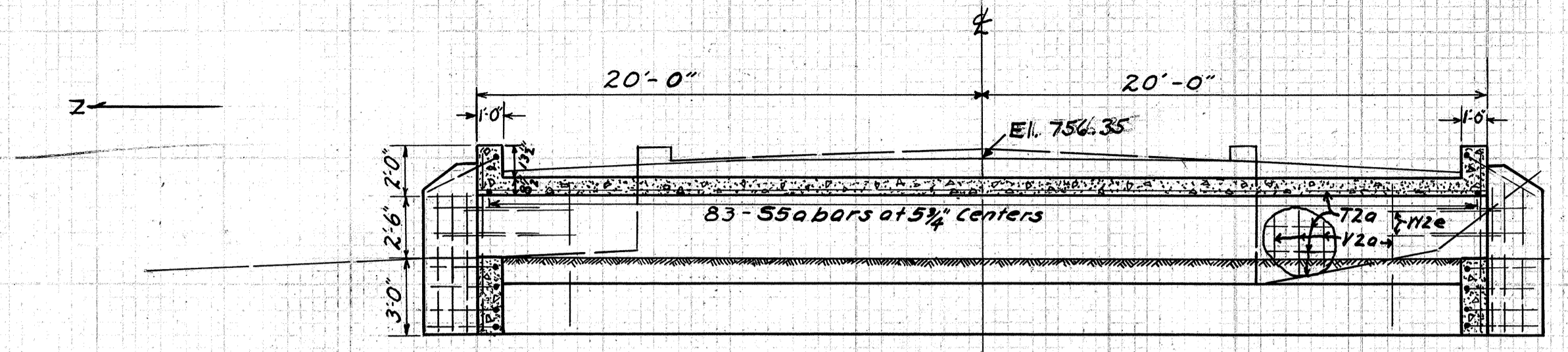
Type - Cast Iron Pipe
Size - 24" x 42'
Work Required - Take up and relay present 24" x 30" Solid Cast Iron Pipe to grade shown.
Place 12' of 24" Sectional Cast Iron Pipe and build 2 Standard Concrete Headwalls.
Clean out channel 100' left.

ESTIMATED QUANTITIES

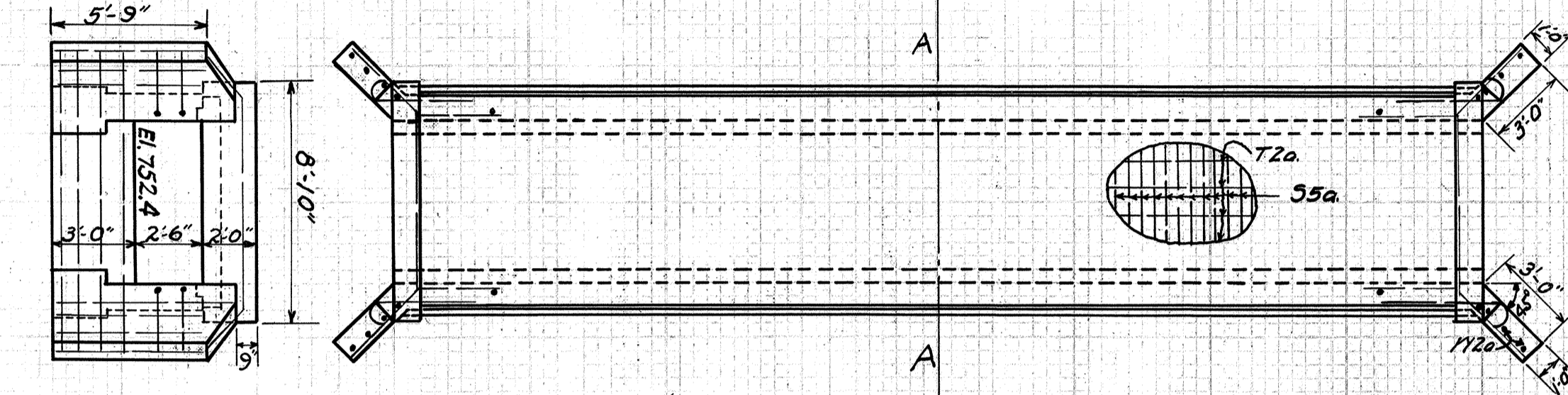
Excavation	27 Cu. yds.
1:5 1/2 Concrete	2 1/2 Cu. yds.
Reinforcing Steel	65 lbs.
24" Sectional Cast Iron Pipe	12 Lin. ft.
24" Solid Cast Iron Pipe (relaid)	30 Lin. ft.
Channel Excavation	15 Cu. yds.

Reinforcing Steel
8-A bars - 1/2" phi - 5'-0" long
8-B bars - 1/2" phi - 7'-0" long

No 13 Sta. 407+92
Dr. by WF
Tr. by RB



See Drawing 5C-A for details of Spacing & Location of Reinforcing Steel.



- Reinforcing Steel**
- 83-55a bars - 1/2" φ - 7'6" long - Spcd 5 1/2" ctrs.
 - 28-T2a bars - 1/2" φ - 20'9" long - Spcd 12" ctrs.
 - 20-V2a bars - 1/2" φ - 7'6" long - Spcd 12" ctrs.
 - 8-V2b bars - 1/2" φ - 5'3" long - Spcd 12" ctrs.
 - 12-V2c bars - 1/2" φ - 5'9" long - Spcd as shown
 - 4-V2d bars - 1/2" φ - 7'0" long - Spcd as shown
 - 8-V2e bars - 1/2" φ - 5'0" long - Spcd 12" ctrs.
 - 84-V2c bars - 1/2" φ - 5'6" long - Spcd 12" Ctrs.

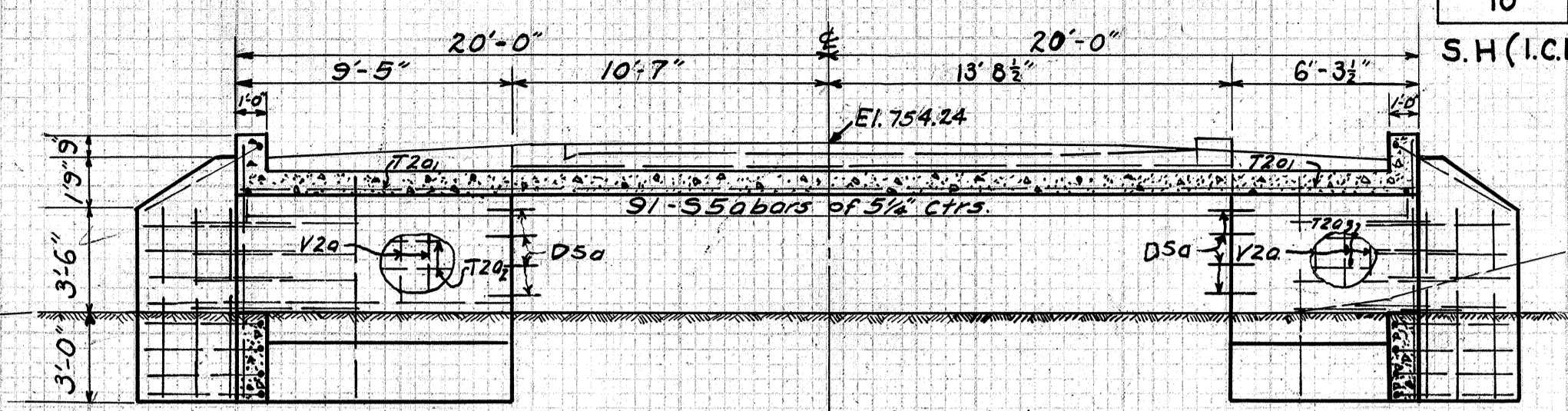
ESTIMATED QUANTITIES

Excavation	60 CuYds
1:6 1/2 Concrete (Footers)	10 1/2 CuYds
1:5 1/2 Concrete (Malls)	12 1/2 CuYds
1:5 1/2 Concrete (Slab & Headwalls)	10 1/2 CuYds
Reinforcing Steel	1855 Lbs
Removing Old Masonry	27 CuYds
Channel Excavation	70 CuYds

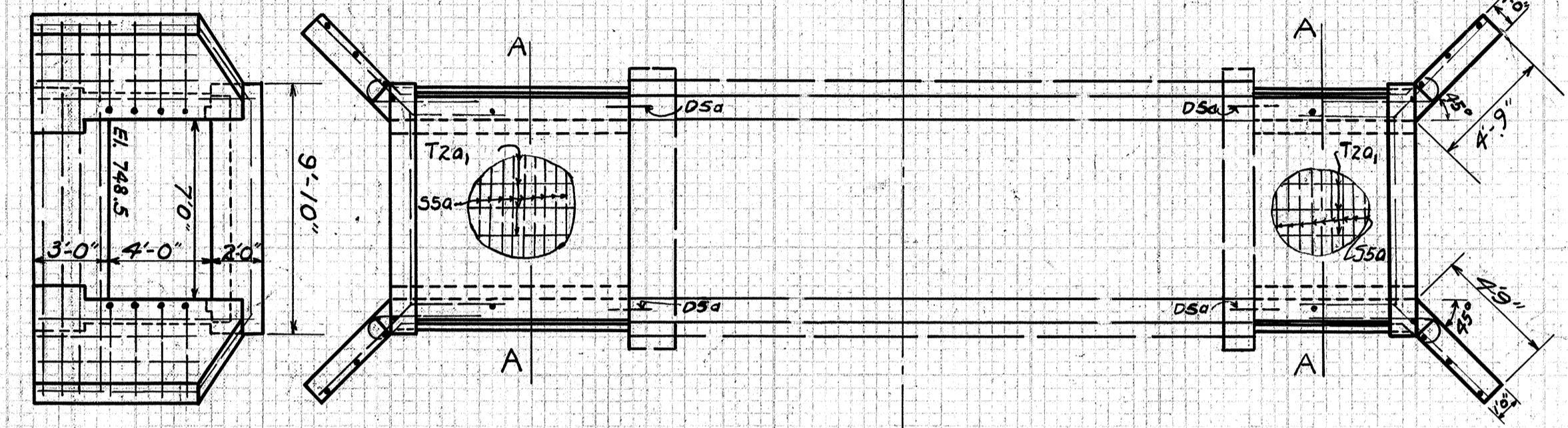
CULVERT DATA
Type - Concrete Slab Top
Size - 5'-6" V=2'6" L=40'-0"

Work Required - Remove present Stone Slab Top Culvert - 5'-4" V=1'9" L=19'-2"
Build Standard Concrete Slab Top Culvert with Headwalls and Wings as shown.
Cut new channel straight to right 150'. Cleanout channel to left 100'.

No 14 Sta 413+33



See Drawing 5C-A for details of Spacing & Location of Reinforcing Steel.



- Reinforcing Steel**
- 91-55a bars - 3/4" φ - 8'-6" long - Spcd 5 1/2" ctrs
 - 14-T2a1 bars - 1/2" φ - 20'-9" long - Spcd 12" ctrs
 - 20-V2a bars - 1/2" φ - 9'-9" long - Spcd 12" ctrs
 - 16-V2b bars - 1/2" φ - 7'-0" long - Spcd 12" ctrs
 - 12-V2c bars - 1/2" φ - 6'-6" long - Spcd as shown
 - 4-V2d bars - 1/2" φ - 8'-6" long - Spcd as shown
 - 16-V2e bars - 1/2" φ - 5'-0" long - Spcd 12" ctrs
 - 34-V2a bars - 1/2" φ - 7'-0" long - Spcd 12" ctrs
 - 10-T2a2 bars - 1/2" φ - 9'-0" long - Spcd 12" ctrs
 - 16-D5a bars - 3/8" φ - 2'-0" long - Spcd 12" ctrs.

ESTIMATED QUANTITIES

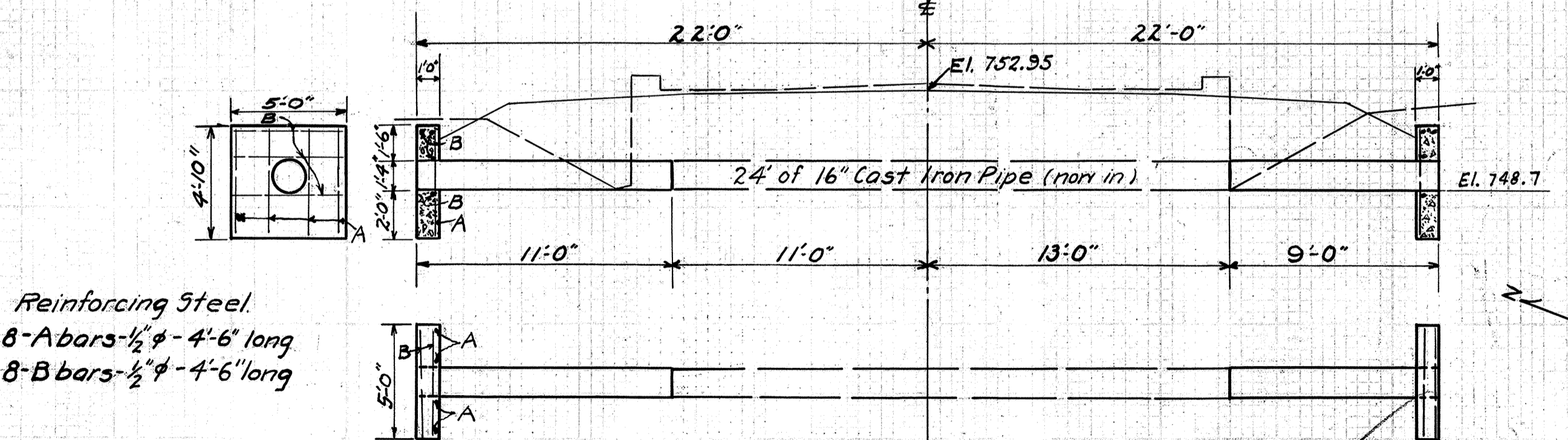
Excavation	25 CuYds
1:6 1/2 Concrete - (Footers)	4 1/2 CuYds
1:5 1/2 Concrete - (Malls)	10 1/2 CuYds
1:5 1/2 Concrete - (Slab & Headwalls)	12.3 CuYds
Reinforcing Steel	1960 Lbs
Removing Old Masonry	11.0 CuYds
Repointing Old Masonry	195 Sqft
Dowels (3/8" φ x 24" - D5a)	16 Pcs.

CULVERT DATA
Type - Concrete Slab Top
Size - 5'-7" V=4'-0" L=40'-0"

Work Required - Extend present Stone Slab Top Culvert (5'-7" V=4'-0" L=24'-3 1/2" - 9'-5" Left and 6'-3 1/2" Right with Standard Concrete Slab Top Culvert as shown.
Remove tops of present stone headwalls and present Stone Slab.
Repoint Present Stone Walls.

Note - D5a bars are not included in the weight of Reinforcing Steel listed.

No 16 Sta 440+36



- Reinforcing Steel**
- 8-A bars - 1/2" φ - 4'-6" long
 - 8-B bars - 1/2" φ - 4'-6" long

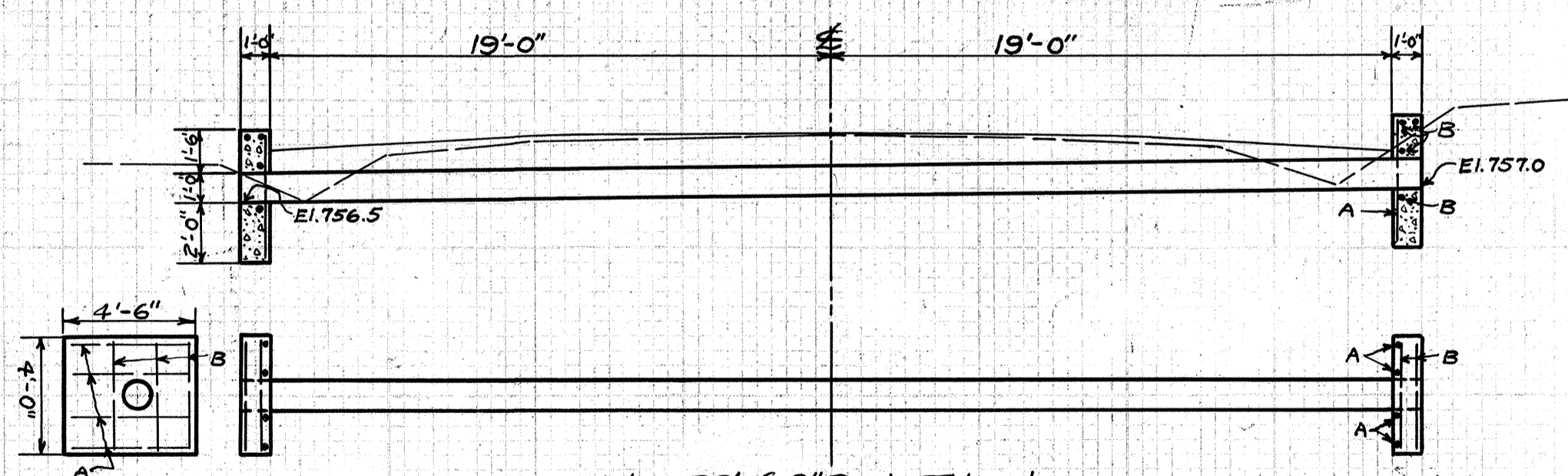
CULVERT DATA
Type - Cast Iron Pipe
Size - 16" x 44"

Work Required - Extend present 16" x 24" Sectional Cast Iron Pipe - 11' left and 9' right with 16" Sectional Cast Iron Pipe and build 2 Standard Concrete Headwalls.

ESTIMATED QUANTITIES

Excavation	14 CuYds
1:5 1/2 Concrete - (Headwalls)	1.70 CuYds
Reinforcing Steel	50 Lbs
16" Sectional Cast Iron Pipe	20 Linft

No 15 Sta 423+60



- Reinforcing Steel**
- 8-A bars - 1/2" φ - 4'-0" long
 - 8-B bars - 1/2" φ - 3'-6" long

CULVERT DATA
Type - Cast Iron Pipe
Size - 12" x 40"

Work Required - Place 40' of 12" Sectional Cast Iron Pipe and build 2 Standard Concrete Headwalls

Note - 32' of 8" Drain Tile at Sta. 445+75 to be abandoned.

ESTIMATED QUANTITIES

Excavation	12 CuYds.
1:5 1/2 Concrete - (Headwalls)	1 1/2 CuYds.
Reinforcing Steel	40 Lbs.
12" Sectional Cast Iron Pipe - 40 Linft.	

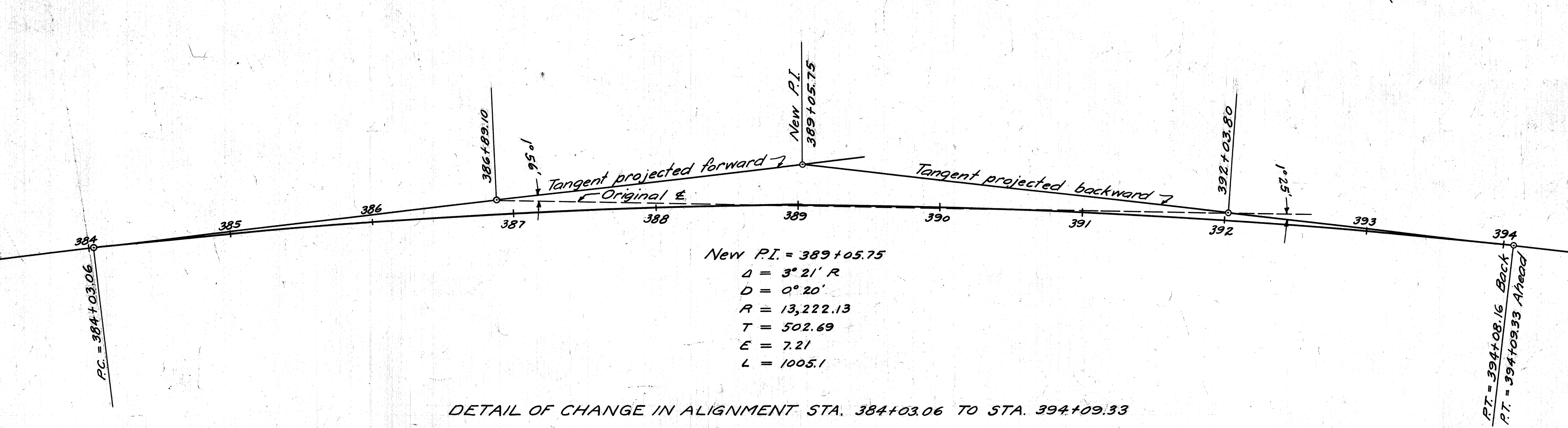
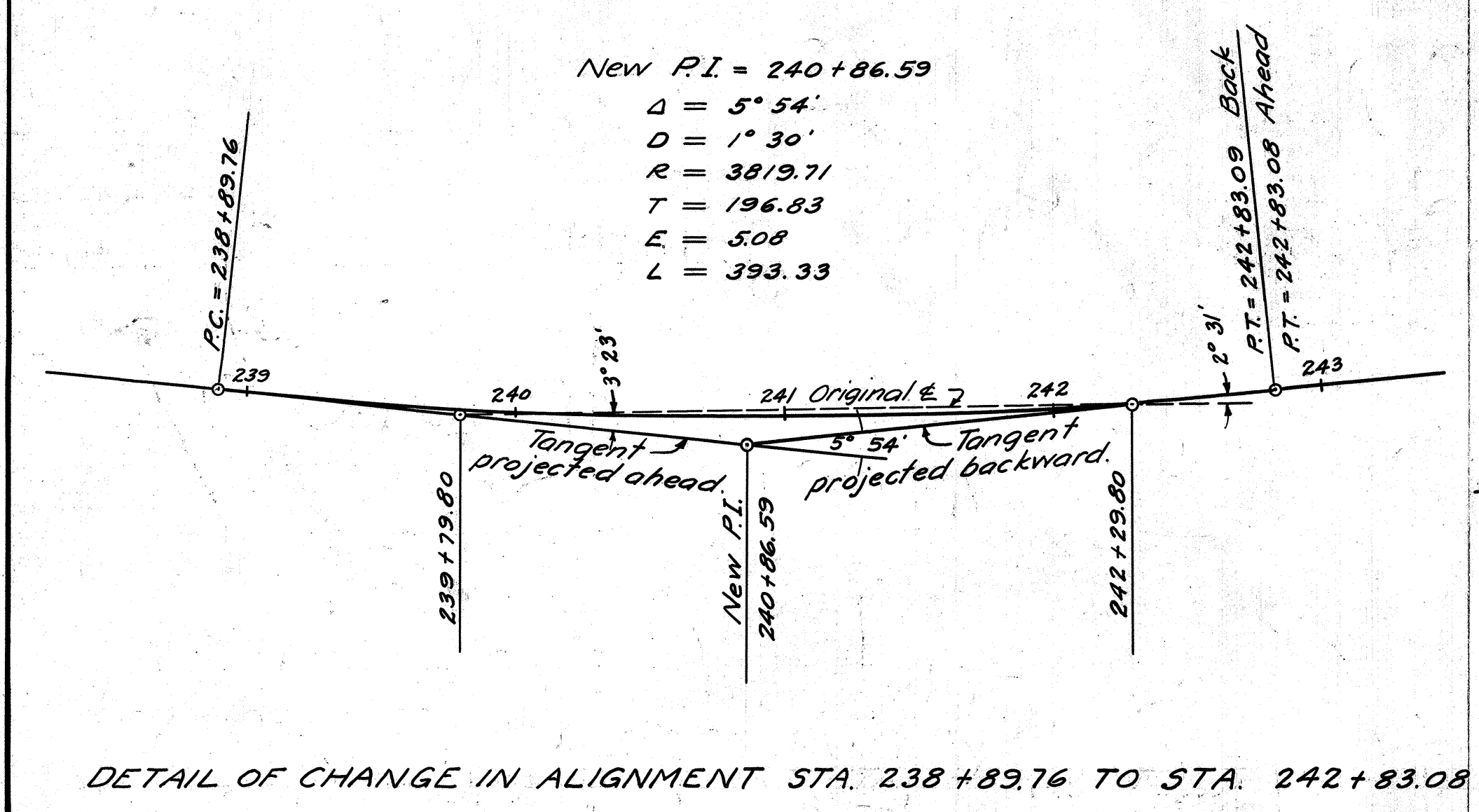
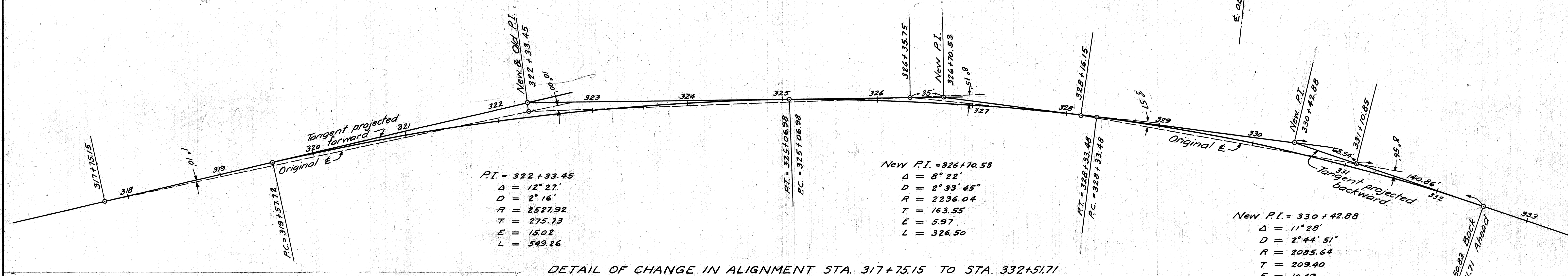
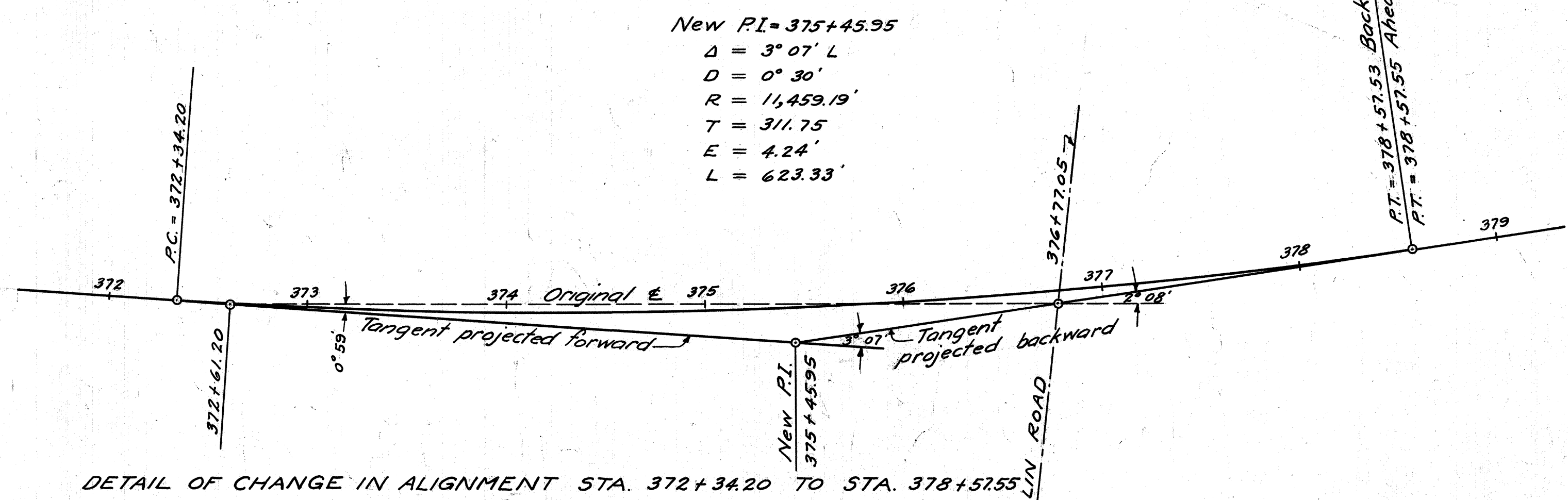
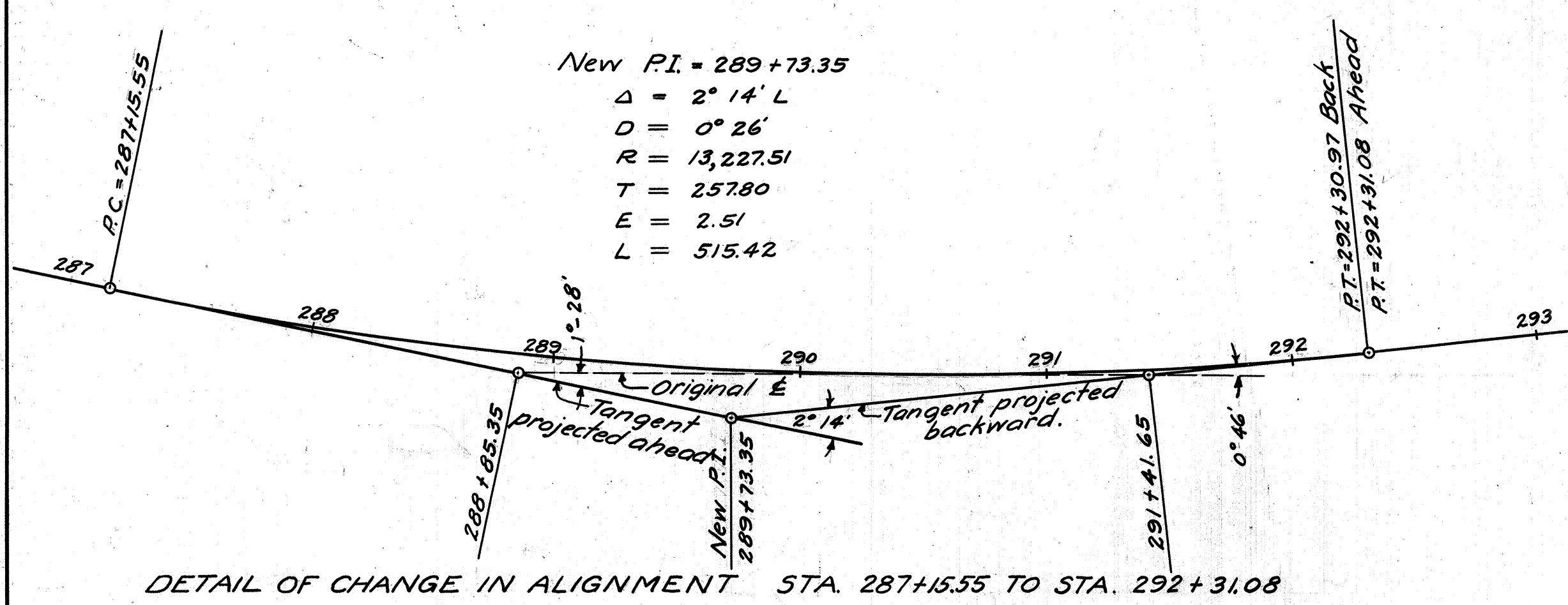
No 17 Sta. 445+35

REALIGNMENT SHEET

FED. RD DIST. NO	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		

44
46

S.H.(I.C.H.) 288 SEC. 50. AMHERST # F LORAIN CO.



SUMMARY OF QUANTITIES

Proposal No 2

SIDE DRAINS

Side	From	To	Type	8"	10"	12"	24"	6"
R	268+00	269+90	Relay					190
R	269+90	270+97	New	107				
R	270+97	272+33	Relay	136				
L	274+61	276+10	Relay	149				
L	279+64	280+12	Relay	48				
R	283+58	285+00	Relay	142				
R	285+00	291+56	Relay	656				
L	303+00	305+50	Relay	250				
L	309+42	311+00	New	158				
R	317+35	319+00	Relay		165			
R	326+00	328+44	Relay	244				
L	322+75	325+67	Relay	292				
L	325+67	329+74	New	407				
L	329+74	330+30	New	56				
R	330+35	331+80	New	125				
R	341+33	342+75	New				142	
L	342+75	343+75	Relay		100			
R	346+00	347+60	Relay	160				
R	364+23	364+94	Relay		71			
R	373+53	374+82	New	129				
L	377+20	377+70	New	50				
R	378+41	379+22	New	81				
L	388+68	390+05	New	37				
R	401+00	402+00	New	100				
R	407+00	407+92	Relay	92				
R	409+65	413+25	New	360				
R	416+08	417+65	New	157				
L	419+70	421+39	Relay	169				
R	419+52	421+57	New	205				
R	427+00	431+00	Relay	400				
R	434+04	435+32	New	128				
L	442+65	445+32	New	267				
R	444+18	445+32	New	114				
R	454+00	456+00	Relay	200				
L	456+00	457+54	Relay	154				
Total Side Drains (New)				2481			142	
Total Side Drains (Relay)				1450	1642	336		190

EXTRA PAVEMENT

From	To	For	Sq.Yds.
268+2796	270+6553	Curve	24.5
412+8743	416+8124	Curve	57.1
Total			81.6

MACADAM SCARIFIED

From	To	Length	Sq.Yds.
268+2796	299+136	3085.64	4799.9
299+264	344+32	4505.60	7008.7
353+50	405+50	5200.00	8088.9
411+50	458+345	4683.45	7285.4
Totals			17474.69

EQUALITIES

Back	Ahead	Amt.	Amt.+
267+6553	269+6689	1.36	
282+8232	282+8259	0.27	
292+3097	292+3108	0.11	
332+5083	332+5171	0.88	
347+13.07	347+13.13	0.06	
378+5153	378+5155	0.02	
394+08.16	394+0933	1.17	
403+86.13	403+8648	0.35	
410+9926	410+9928	0.02	
415+81.24	415+8227	1.03	
Total			- 5.27

CU.YDS. OF EXCAV. & EMB.

From	To	Excav.	Emb.	Emb.25%	Waste	Borrow	
268+2796	272+55	188.0	149.4	186.7	1.3		
272+55	287+08	785.2	622.7	778.4	6.8		
287+08	298+00	410.8	341.7	427.1		16.3	
298+00	301+76	255.2	156.9	196.1	59.1		
301+76	316+35	690.7	552.3	690.4	0.3		
316+35	327+14	383.1	304.4	380.5	2.6		
327+14	345+00	1161.3	815.8	1019.7	141.6		
345+00	358+51	901.9	716.9	896.1	5.8		
358+51	376+37	1137.6	909.7	1137.1	0.6		
376+37	383+35	518.7	414.6	518.2	0.5		
383+35	392+00	677.2	495.1	618.9	58.3		
392+00	402+50	721.9	574.6	718.3	3.6		
402+50	413+54	770.1	614.4	768.0	2.1		
413+54	421+48	478.5	399.8	499.8		21.3	
421+48	426+50	303.5	242.3	302.9	0.6		
426+50	439+21	821.8	676.8	846.0		24.2	
439+21	445+32	296.6	267.1	333.9		37.3	
445+32	458+345	689.4	563.8	704.8		15.4	
Totals			11191.5	8818.3	11022.9	283.2	114.5

Borrow excavation can be obtained from waste material of tile line.

PAVEMENT LENGTH

Beginning of Section F.	Sta. 268+27.96
End of Project	Sta. 458+33.45
Gross Length	19005.49 lin.ft.
Deductions	
Various Curves (Equalities)	527 lin.ft.
299+20 Railroad	16.00 lin.ft.
Total Deduction	21.27 lin.ft.
Net Length	18984.22 lin.ft.

* Note: All borrow indicated above can be obtained from waste material of tile line without excess haul.

PRIVATE DRIVES

Side	Sta.	Type	Size	New	Relay
L	269+80	Corr. Pipe	8"	✓	✓
L	277+20	"	8"	✓	✓
R	277+20	"	8"	✓	✓
R	281+50	"	8"	✓	✓
L	286+20	"	10"	✓	✓
R	302+00	"	10"	✓	✓
L	322+15	"	10"	✓	✓
L	334+42	"	8"	✓	✓
L	337+85	"	8"	✓	✓
L	338+60	"	8"	✓	✓
L	344+10	"	12"	✓	✓
L	346+85	"	8"	✓	✓
L	350+45	"	8"	✓	✓
L	354+30	"	8"	✓	✓
R	360+32	"	12"	✓	✓
L	361+90	"	8"	✓	✓
R	366+85	"	10"	✓	✓
R	368+60	"	10"	✓	✓
L	368+60	"	10"	✓	✓
R	372+61	"	10"	✓	✓
L	373+75	"	8"	✓	✓
L	374+29	"	8"	✓	✓
L	374+39	"	8"	✓	✓
L	375+37	"	8"	✓	✓
L	378+41	"	8"	✓	✓
L	384+10	"	8"	✓	✓
L	394+00	"	8"	✓	✓
L	396+90	"	8"	✓	✓
R	398+53	"	8"	✓	✓
R	400+12	"	8"	✓	✓
L	401+75	"	8"	✓	✓
L	405+00	"	10"	✓	✓
R	403+44	"	8"	✓	✓
L	407+60	"	10"	✓	✓
L	410+92	"	8"	✓	✓
L	422+42	"	10"	✓	✓
R	424+40	"	10"	✓	✓
L	425+77	"	10"	✓	✓
L	428+00	"	10"	✓	✓
L	433+00	"	8"	✓	✓
L	436+20	"	10"	✓	✓
L	437+00	"	12"	✓	✓
L	437+65	"	12"	✓	✓
L	441+52	"	10"	✓	✓
R	443+22	"	10"	✓	✓
R	447+80	"	8"	✓	✓
L	453+00	"	8"	✓	✓
L	281+86	"	8"	✓	✓
R	355+80	"	8"	✓	✓
Total No. 8" 16' Drives New					29
Total No. 10" 16' Drives New					16
Total No. 12" 16' Drives New					3
Total No. 12" 16' Drives Clean & Relay					1

CATCH BASINS

Side	Sta.	#1	#2
R	271+00	1	1
L	274+61	1	
L	280+12	1	
L	305+50	1	
L	309+42	1	
R	317+35	1	
L	325+67	1	
R	328+44	1	
L	330+30	1	
R	330+55	1	
R	341+33	1	
L	342+75	1	
R	347+60	1	
R	364+94	1	
R	374+82	1	
L	377+20	1	
R	378+41	1	
L	390+05	1	
R	401+00	1	
R	407+00	1	
R	409+65	1	
R	416+08	1	
L	419+70	1	
R	419+52	1	
R	431+00	1	
R	435+32	1	
R	456+00	1	
L	457+54	1	
Totals			27

CONC HEADERS AT R.R.

Sta.	Length
299+136	27.3 Ft.
299+264	27.3 Ft.
Total	54.6 Ft.

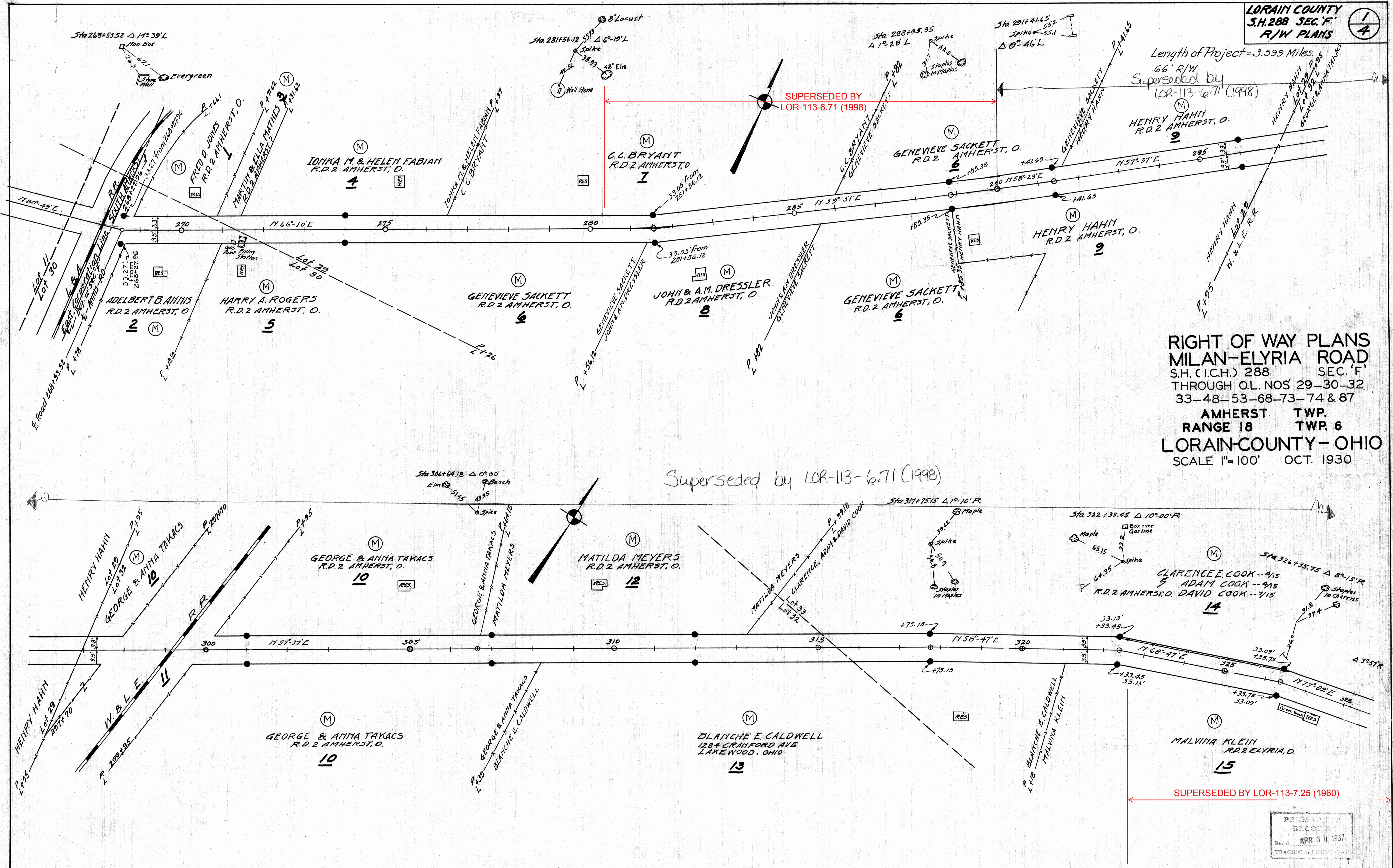
SUMMARY OF STRUCTURE QUANTITIES

Proposal No 2

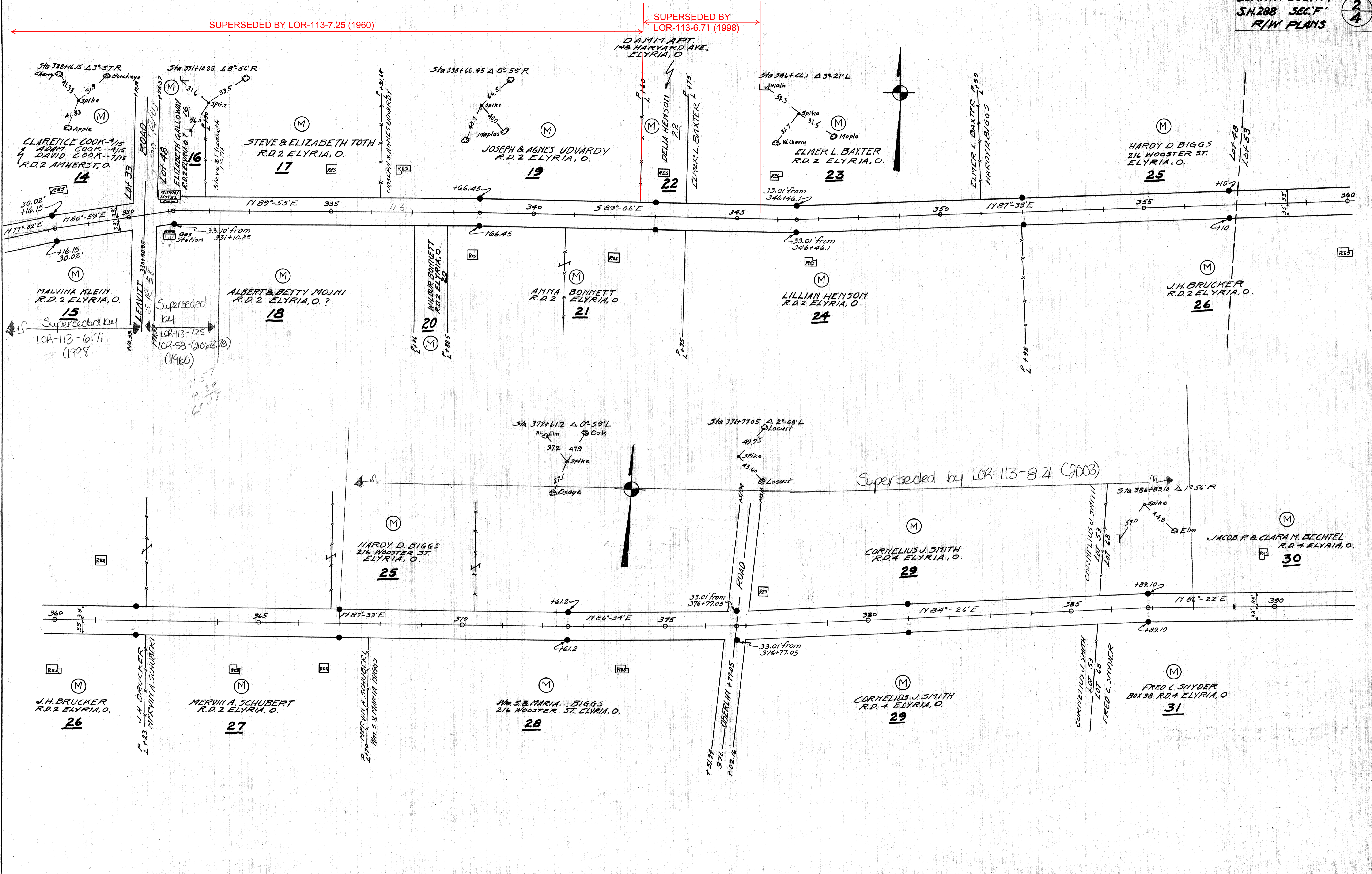
No	STATION	TYPE	SIZE	LENGTH	EXCAVATION	CONCRETE						REINFORCING STEEL	SECTIONAL CAST IRON PIPE			SOLID CAST IRON PIPE		12" VITRIFIED SEWER PIPE	REMOVING 12" V.S.P.	TYPE RR-4 RAILING	RIP RAP	REMOVING OLD MASONRY	REPOINTING OLD MASONRY	CHANNEL EXCAVATION	REMOVING OLD SUPERSTRUCTURE	CATCH BASINS	Notes	
						1-5 1/2		1-6 1/2		1-8			12"	16"	24"	12"	24"											
						WALLS	SLAB	FOOTERS	WALLS				Lin. ft.	Lin. ft.	Lin. ft.	Lin. ft.	Lin. ft.											
STRUCTURES 20' AND UNDER																												
1	278 + 85	Conc. + Stone Slab Top	8'-0" x 3'-2"	40'	65	9 ²	13 ²	4 ³			2122																	Remove present headwalls and slab. Extend both ends with Std. Slab Top Culvert with cut off walls at each end. Repoint old Stone Masonry. ✓
2	291 + 97	Vit. Sewer Pipe	12"	40'	14	2 ⁰				4 ¹	65						40											Remove present 12"x30' Corrugated Pipe and Stone Headwalls. Place and encase 40' of 12" V.S.P. and build 2 Std. Headwalls. ✓
3	299 + 05	Vit. Sewer Pipe	12"	54'	20	2 ⁴				5 ⁴	60						54	26										Remove present 12"x26' V.S.P. Place and encase 54' of 12" V.S.P. and build 2 Std. Side Road Headwalls. ✓
4	299 + 36	Vit. Sewer Pipe	12"	54'	25	2 ⁴				5 ⁴	60						54											Place and encase 54' of 12" V.S.P. and build 2 Std. Side Road Headwalls. ✓
5	322 + 75	Cast Iron Pipe	12"	44'	25	1 ²				40	20			24														Remove present 12"x24' C.I.P. from Sta. 322+92 and relay at 322+75. Place 20' of 12" Sect. C.I.P. and build 2 Std. Headwalls. ✓
6	329 + 74	Cast Iron Pipe	12"	39'	26	0 ²				20	17			24														Take up and relay 24' of 12" Solid C.I.P. Place 17' of Sect. C.I.P. and build Std. Conc. Headwall. Build 1 Std. No 2 Catch Basin with side inlet omitted. ✓
7	344 + 82	Conc. Slab Top	10'-0" x 4'-3"	39'-6"	95		15 ²	19 ⁴	16 ⁰		2552		20				26	34		160				14			Remove present superstructure. Extend abutments. Build Conc. Slab as shown and place Std. Type RR-4 Railing. ✓	
8	350 + 95	Conc. Slab Top	7'-0" x 1'-6"	40'	85		11 ²	5 ⁴	9 ²		830																	Remove present Stone Slab Top. Build Conc. Slab Top Culvert with Headwalls and Cut off Walls as shown. Clean Channel 250' to left. ✓
9	356 + 96	Cast Iron Pipe	16"	39'-9"	4	1 ²				50		9								1 ⁰								Remove present Headwall at left end. Extend 6' left and 3' right with 16" Sect. C.I.P. Build 2 Std. Concrete Headwalls. ✓
10	382 + 07	Conc. Slab Top	14'-0" x 4'-6"	39'-6"	120		26 ³	31 ⁸	37 ⁰		4290						34			30 ⁰		60					Remove present bridge. Build new Concrete Slab Bridge. Clean out channel 100' each way from bridge. ✓	
11	397 + 80	Cast Iron Pipe	12"	43'	5	1 ²				40	13																	Extend present Cast Iron Pipe 9' left and 4' right with 12" Sect. C.I.P. and build 2 Std. Concrete Headwalls. ✓
12	402 + 00	Cast Iron Pipe	16"	40'	17	1 ²				50		40																Remove present 15"x30' Corrugated Pipe. Place 40' of 16" Sect. C.I.P. and build 2 Std. Conc. Headwalls. Clean out channel 50' to left. ✓
13	407 + 92	Cast Iron Pipe	24"	42'	27	2 ⁰				65		12		30														Take up and relay present 24"x30' Solid C.I.P. Place 12' of 24" Sect. C.I.P. and build 2 Std. Conc. Headwalls. Clean out channel 100' to left. ✓
14	413 + 33	Conc. Slab Top	6'-0" x 2'-6"	40'	60	10 ⁵	12 ⁴	10 ⁸			1855									27 ⁵		70						Remove present culvert. Build Std. Conc. Slab Top Culvert. Cut new channel straight to right 150'. Clean out channel 100' to left. ✓
15	423 + 60	Cast Iron Pipe	16"	44'	14	1 ²				50		20																Extend present 16"x24' Solid C.I.P. 11' left. and 9' right with 16" Sectional C.I.P. and build 2 Std. Concrete Headwalls. ✓
16	440 + 36	Conc. Slab Top	7'-0" x 4'-0"	40'	25	10 ⁵	12 ³	4 ³			1960		16							11 ⁰	195							Extend present Stone Slab Top Culvert 9'-5" left and 6'-3 1/2" right with Std. Conc. Slab Top Culvert. Remove Tops of present headwalls and stone slab. ✓
17	445 + 35	Cast Iron Pipe	12"	40'	12	1 ²				40	40																	Place 40' of 12" Sectional Cast Iron Pipe and build 2 Standard Concrete Headwalls. ✓
Totals					639	49 ³	90 ²	75 ²	629	15 ³	14149	90	69	12	52	48	30	148	26	60	34	85 ⁵	515	227	2	1		

Length of Project = 3.599 Miles
66' R/W
Superseded by
LOR-113-6.71 (1998)

RIGHT OF WAY PLANS
MILAN-ELYRIA ROAD
S.H. (I.C.H.) 288 SEC. 'F'
THROUGH O.L. NOS 29-30-32
33-48-53-68-73-74 & 87
AMHERST TWP.
RANGE 18 TWP. 6
LORAIN-COUNTY - OHIO
SCALE 1"=100' OCT. 1930

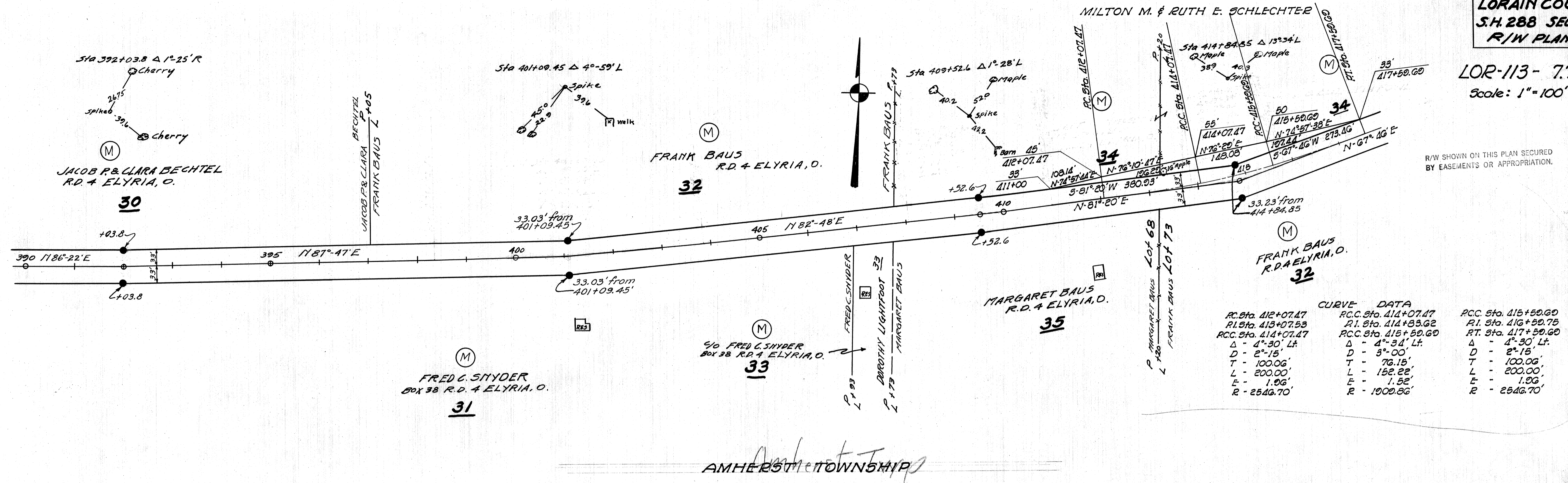


PERMANENT
RECORD
Rec'd APR 30 1937
TRACING or ALIEN DEED



LOR-113-7.78
Scale: 1"=100'

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



CURVE DATA		
P.C. Sta. 412+07.17	P.C. Sta. 414+07.17	P.C. Sta. 415+50.00
P.I. Sta. 413+07.53	P.I. Sta. 414+53.62	P.I. Sta. 416+50.75
P.C.C. Sta. 414+07.17	P.C.C. Sta. 415+50.00	P.T. Sta. 417+50.00
Δ - 4°-30' Lt.	Δ - 4°-34' Lt.	Δ - 4°-30' Lt.
D - 2°-15'	D - 3°-00'	D - 2°-15'
T - 100.00'	T - 76.15'	T - 100.00'
L - 200.00'	L - 152.22'	L - 200.00'
E - 1.06'	E - 1.52'	E - 1.30'
R - 2546.70'	R - 1900.86'	R - 2546.70'

Amherst Township
AMHERST TOWNSHIP

