Fed. Rd Dist. No.	State	Fed. Aid Project	Fiscal Year
10	Ohio		

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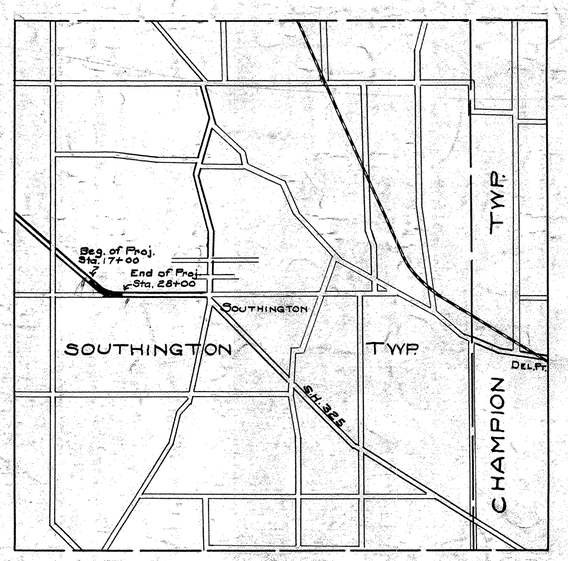
S.H. 325 Sec. D Part
Trumbull Co.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
WARREN ~ BURTON RD.

S.H. 325 SEC. D PART PET. NO.
TRUMBULL COUNTY
SOUTHINGTON TWP.

CONVENTIONAL SIGNS

Township Line
Property Line
Center Line
Fence Line
Telephone Line
Power Line
Steam Railroad
Guard Rail
Drain Pipe ~ New
Drain Pipe ~ Old



LOCATION PLAN

SCALE OF MILES

0 1 2 3 4

PORTION TO BE IMPROVED
DETOURS SHOWN THUS
IMPROVED ROADS

The Standard Specifications of the State of Ohio, Division of Highways in force on date of contract will govern this improvement.

I hereby approve these plans and declare that the making of this improvement will not require the closing to traffic of the highway.

Approved:- R. B. Taylor
Date:- 1/20/1930 Resident District Deputy Director

Approved:- A. D. Leggett
Date:- 1/20/1930 Resident Division Deputy Director

Approved:- Rodt. S. Deighton
Date:- 1/23/30 Chief Engineer
Bureau of Construction

Approved:- _____
Date:- _____ Chief Engineer
Bureau of Maintenance

Approved:- _____
Date:- _____ Chief Engineer
Bureau of Bridges

Approved:- Herbert Bushey
Date:- 1-24-30 State Highway Engineer

Approved:- Robert H. Ward
Date:- 1-24-30 Director of Highways

Recommended for Approval:- _____
Date:- _____ District Engineer
Bureau of Public Roads

Recommended for Approval:- _____
Date:- _____ Chief Engineer
Bureau of Public Roads

Approved:- _____
Date:- _____ Chief of Bureau

Approved:- _____
Date:- _____

We the Commissioners of Trumbull County hereby approve these plans and certify that the right-of-way 60 & 66 feet wide is available for the construction, maintenance and repair of the above highway.

_____

_____

_____

Date:- _____ County Commissioners

SCALES

PLAN	1" = 100'
PROFILE V	1" = 10'
PROFILE H	1" = 100'
CROSS-SECTIONS	1" = 5'

INDEX

Title Page	1
Typical Section	2
Plan & Profile	3
Cross-Sections	4-5
Structures	6
Special Summary / Summary Sheet	7

CONSTRUCTION BUREAU
NOV 7 1935
GROUND PHOTOLAB

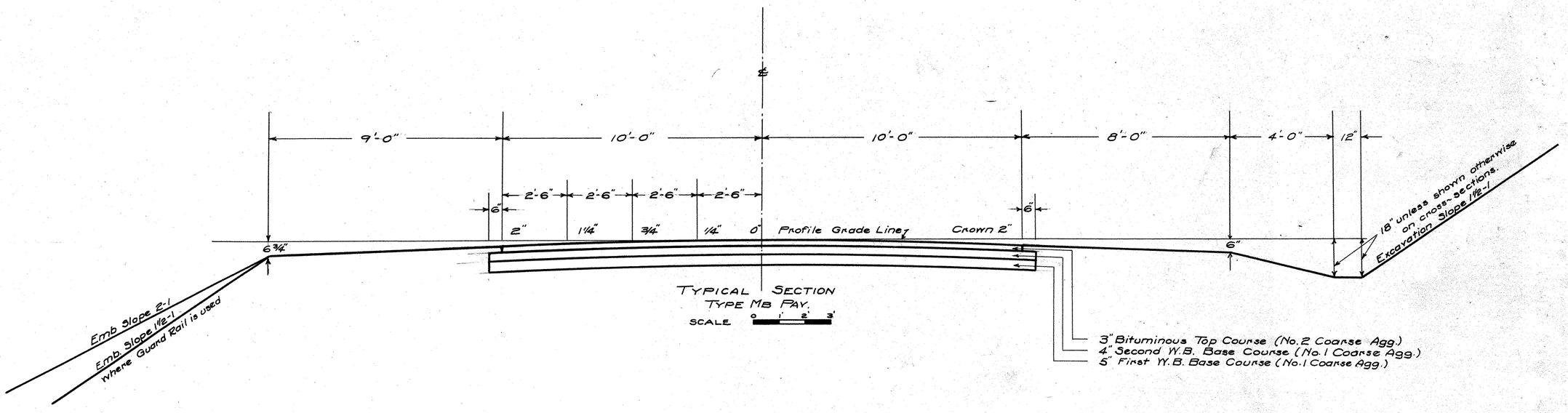
72 TRUMBULL - 325 - D - PT.
1930

Checked - 1-21-30 A. Maier.

FED. RD. DIST. No.	STATE	FED. AID PROJ.	FISCAL YEAR
10	OHIO		

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S.H. 325 SEC. D PART
TRUMBULL CO.

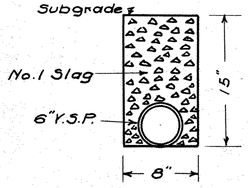


TYPICAL SECTION
TYPE MB PAV.
SCALE 0 1' 2' 3'

SPECIAL NOTE

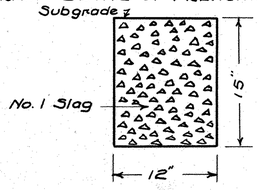
Contractor shall provide for and maintain two-way traffic except during the construction of the intersections with the old pavement, at which time he shall provide for one way traffic. Contractor shall provide two ~~watchmen~~ flagmen (to regulate traffic during construction under one-way traffic.

DETAIL OF 6" Y.S.P. FRENCH DRAIN



6" Y.S.P French Drain to be placed at direction of Engr.
300 Lin. Ft.

DETAIL OF FRENCH DRAIN



French Drain to be placed at the direction of Engineer.
300 Lin. Ft.

Note:- Pres. macadam which is obtained in excavation shall be used at intersection to fill in between old and new pavements to a depth of six inches.

Note:- All materials removed from roadway which are not to be used as per contract shall be piled neatly on right-of-way not more than 300' from the place of removal for the County Commissioners.

Note:- All corrugated drive pipe shall have reinforced ends, either rolled or riveted on.

LEFT		CENTER LINE		RIGHT	
EDGE OF PAV.				EDGE OF PAV.	
ELEV.	W	GRADE	STATION	W.	ELEV.
912.34	10.00	912.51	17+51.17	10	912.34
912.58	10.07	912.75	+75	"	912.77
912.83	10.26	913.00	18+00	"	913.22
913.08	10.60	913.25	+25	"	913.67
913.34	11.15	913.51	+51.17	"	914.14
913.58	11.72	913.75	+75	"	914.57
913.83	12.00	914.00	19+00	"	915.07
913.84	12.00	914.01	+01.17	"	915.04
914.08	"	914.25	+25	"	915.28
914.33	"	914.50	+50	"	915.53
914.58	"	914.75	+75	"	915.78
914.83	"	915.00	20+00	"	916.03
915.05	"	915.22	+25	"	916.25
915.21	"	915.38	+50	"	916.41
915.30	"	915.47	+75	"	916.50
915.33	"	915.50	21+00	"	916.53
915.30	"	915.47	+25	"	916.50
915.21	"	915.38	+50	"	916.41
915.05	"	915.22	+75	"	916.25
914.83	"	915.00	22+00	"	916.03
914.58	"	914.75	+25	"	915.78
914.33	"	914.50	+50	"	915.53
914.08	"	914.25	+75	"	915.28
913.83	"	914.00	23+00	"	915.03
913.58	"	913.75	+25	"	914.78
913.33	"	913.50	+50	"	914.53
913.08	"	913.25	+75	"	914.28
912.83	"	913.00	24+00	"	914.03
912.58	"	912.75	+25	"	913.78
912.33	"	912.50	+50	"	913.53
912.08	"	912.25	+75	"	913.28
911.83	"	912.00	25+00	"	913.03
911.58	"	911.75	+25	"	912.78
911.33	"	911.50	+50	"	912.53
911.08	"	911.25	+75	"	912.28
910.83	"	911.00	26+00	"	912.03
910.58	"	910.75	+25	"	911.78
910.45	12.00	910.60	+40.17	"	911.63
910.33	11.94	910.50	+50	"	911.45
910.08	11.53	910.25	+75	"	911.00
909.93	11.15	910.10	+90.17	"	917.73
909.83	10.89	910.00	27+00	"	910.55
909.58	10.46	909.75	+25	"	910.10
909.33	10.17	909.50	+50	"	909.65
909.08	10.03	909.25	+75	"	909.20
908.93	10.00	909.10	+90.17	10'	908.93

EXTRA PAV. 189 Sq. Yds.

17+40 Drive Lt.
Enc. 12"X16' V.S.P

19+40 Drive Lt.
Enc. 12"X16' V.S.P

23+84 Drive Lt.
Enc. 12"X16' V.S.P

23+75 to 27+41 Lt.
Place 12"X 366' V.S.P
Bld. Std. No. 2 C.B.I. 23+74

16+80 Drive Lt.
Enc. 12"X16' V.S.P

27+43 to 28+99
Place 12"X 156' V.S.P

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

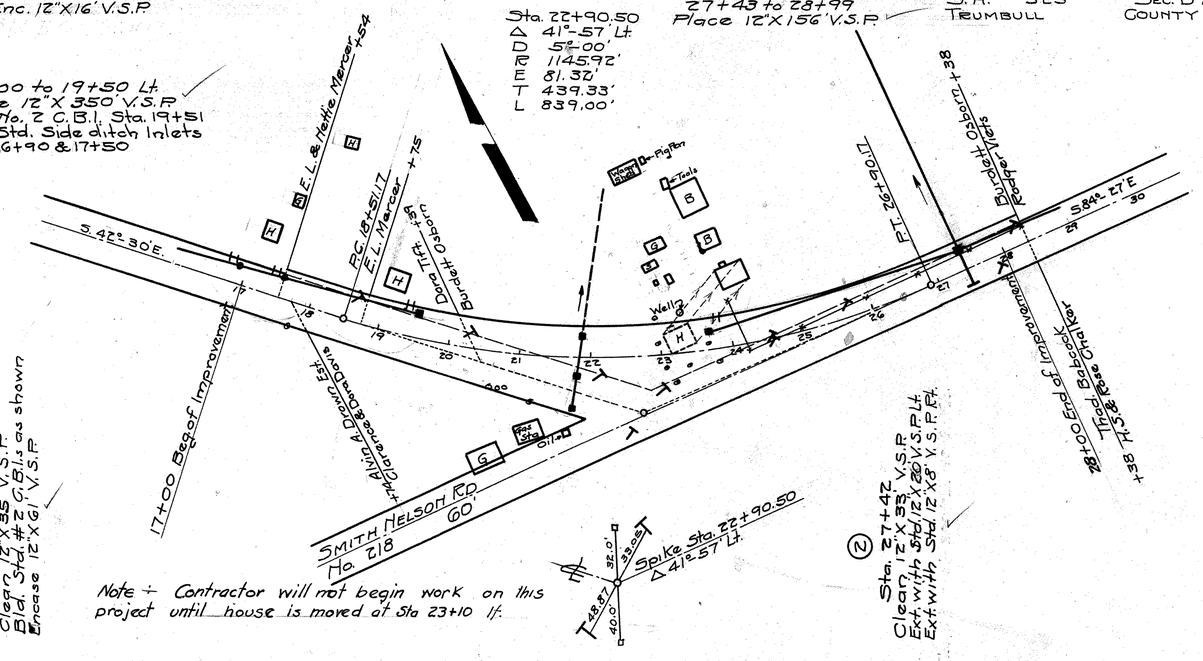
S.H. 325 TRUMBULL

SEC. D PART COUNTY

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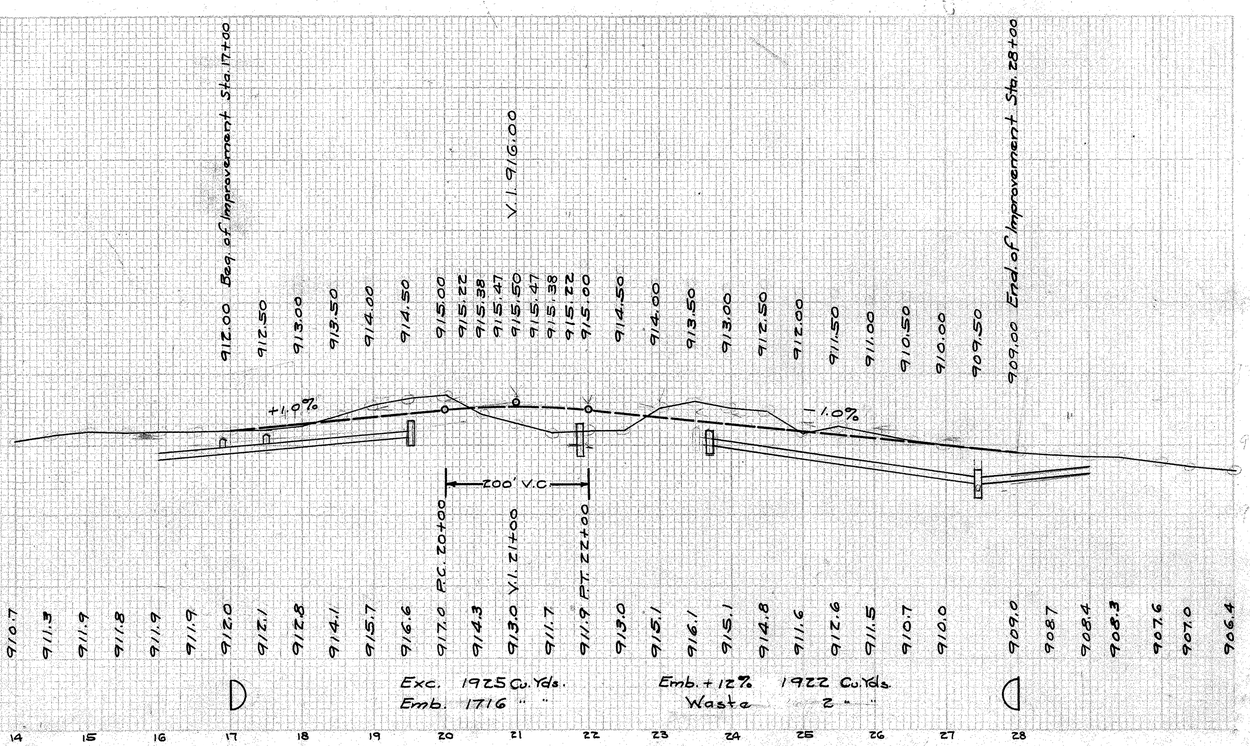
16+00 to 19+50 Lt.
Place 12"X 350' V.S.P
Bld. No. 2 C.B.I. Sta. 19+51
Bld. Std. Side ditch Inlets
Sta. 16+90 & 17+50

Sta. 22+90.50
Δ 41°-57' Lt.
D 5°-00'
R 1145.92'
E 81.32'
T 439.33'
L 839.00'



① Sta. 21+89
Clear 12"X 35' V.S.P
Bld. Std. #2 C.B.I.s as shown
Encase 12"X 61' V.S.P

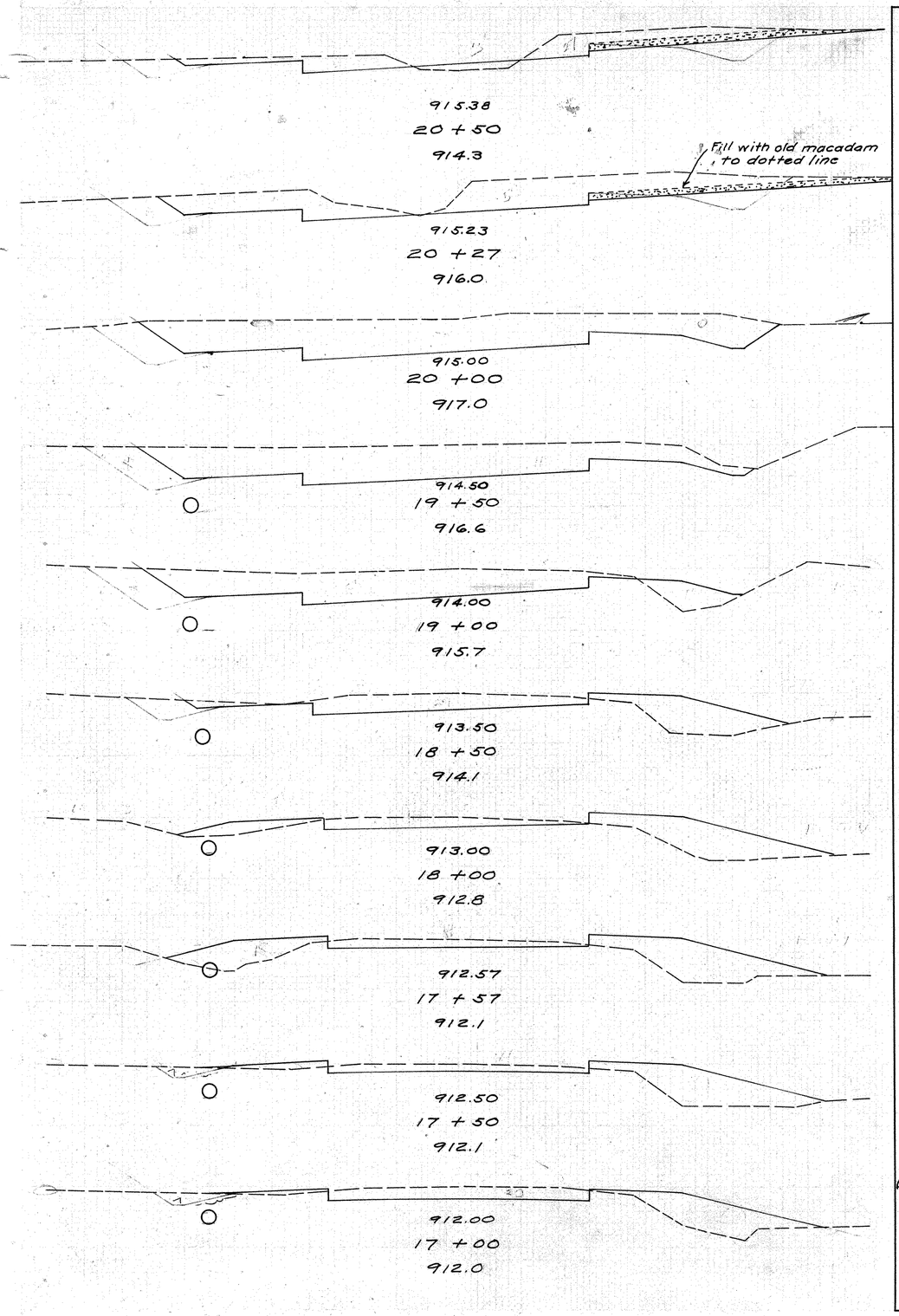
② Sta. 27+42
Clear 12"X 33' V.S.P
Ext. with Std. 12"X 26' V.S.P Lt.
Ext. with Std. 12"X 8' V.S.P Rt.



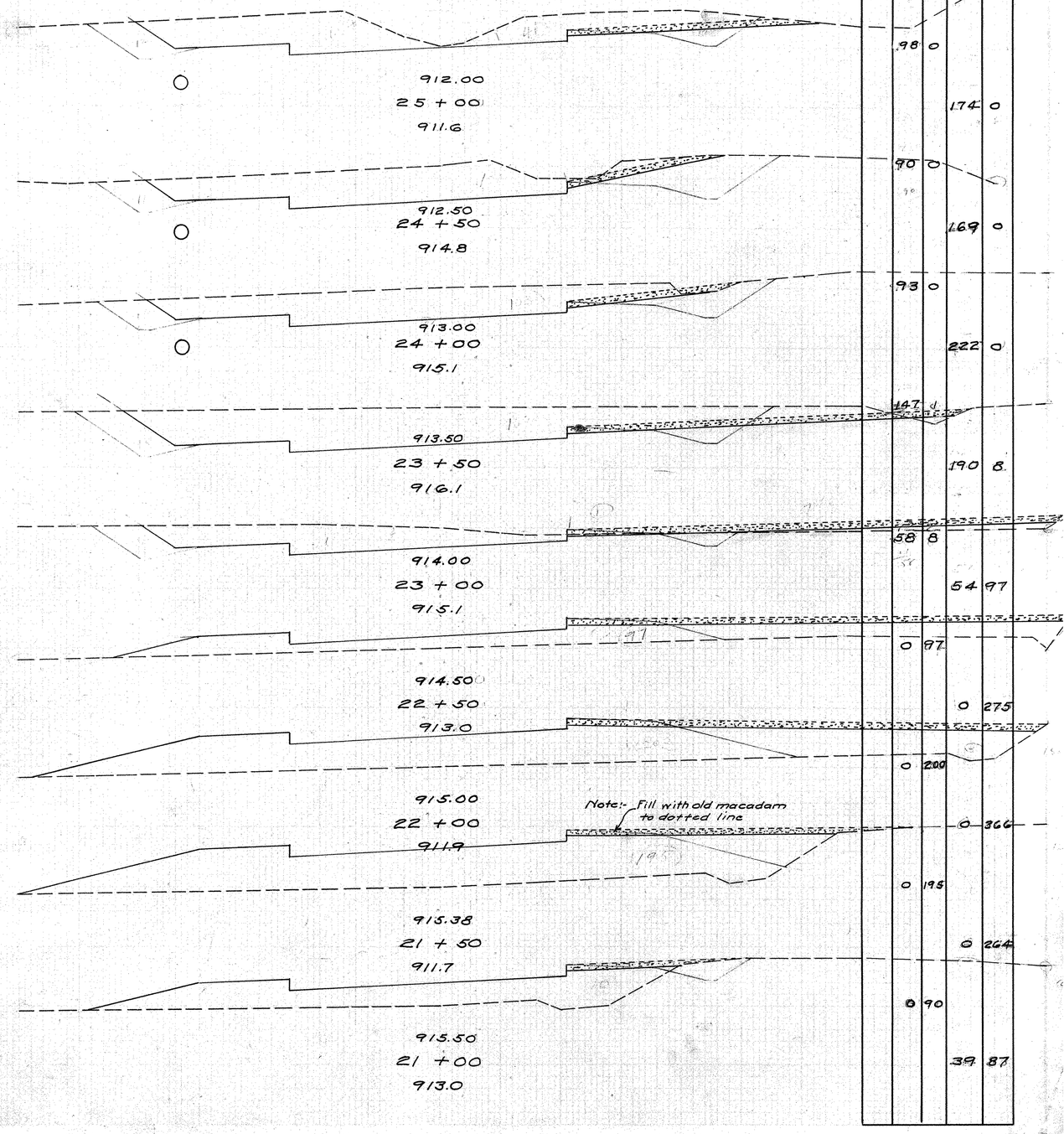
FED. RD. DIST. No.	STATE	FED. AID PROJ.	FISCAL YEAR
10	OHIO		

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S.H. 325 SEC. D. PART
TRUMBULL CO.



	End Area		Cu Yds	
	Exc	Emb	Exc	Emb
	42	4		
			54	2
	85	0		
			101	0
	117	0		
			206	0
	105	0		
			163	10
	71	11		
			96	34
	33	26		
			51	62
	16	41		
			23	74
	13	52		
			3	11
	14	34		
			29	58
	20	29		



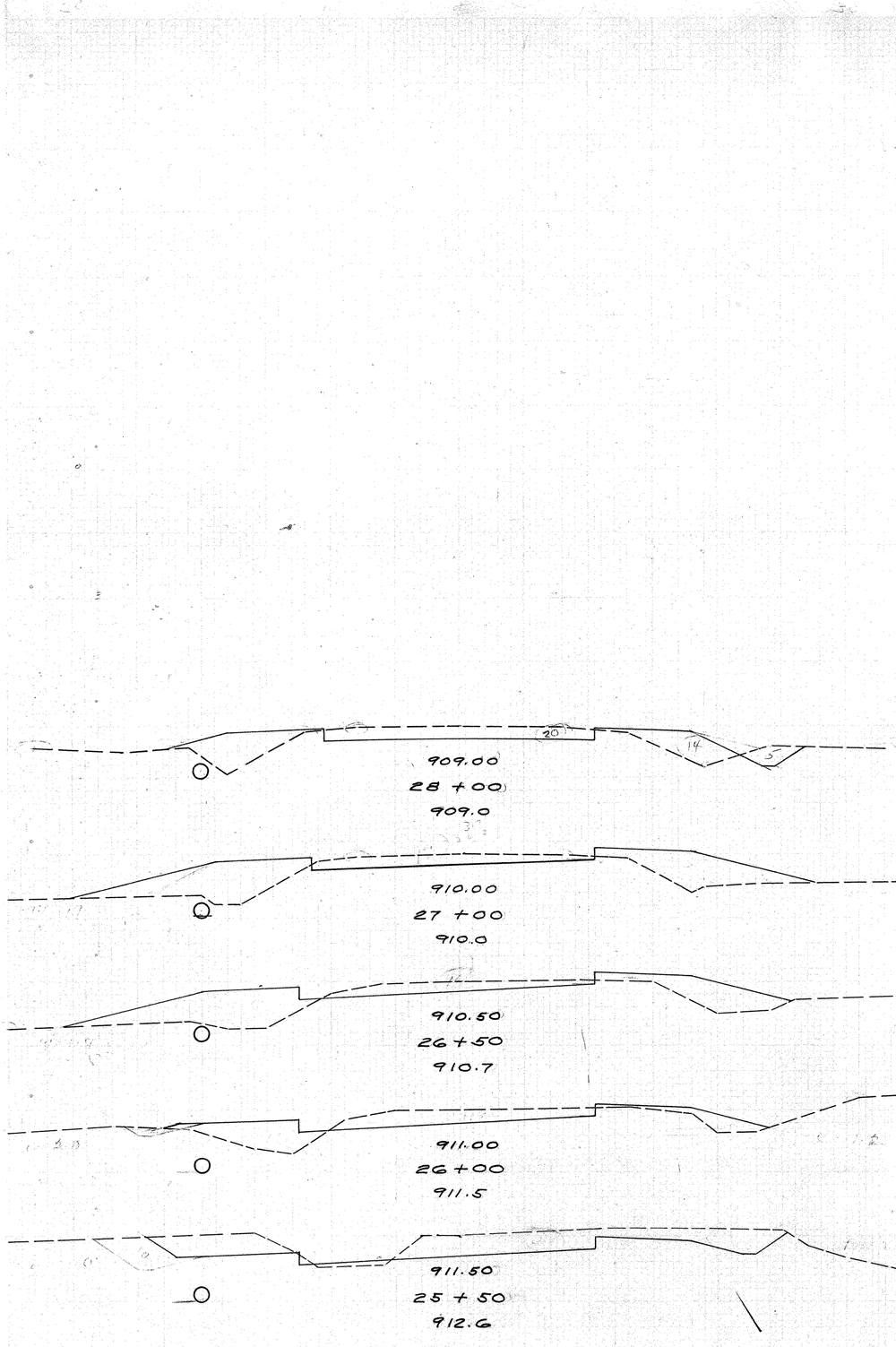
	End Area		Cu Yds	
	Exc	Emb	Exc.	Emb
	98	0		
			174	0
	90	0		
			169	0
	93	0		
			222	0
	147	4		
			190	8
	58	8		
			54	97
	0	97		
			0	275
	0	200		
			0	366
	0	195		
			0	264
	0	90		
			39	87

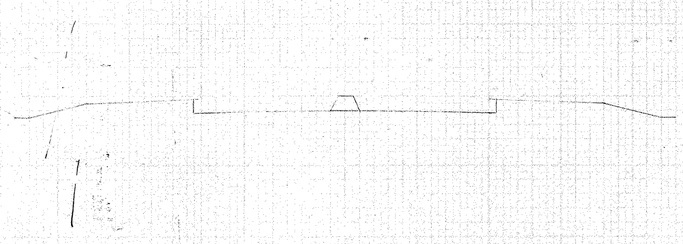
Fed. Rd. Dist. No.	State	Fed. Aid Project	Fiscal Year
10	Ohio		

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S.H. 325 SEC. D. PART
TRUMBULL Co.

	End Area		Cu Yds	
	Exc.	Emb.	Exc.	Emb.
	25	28		
			78	161
	17	59		
Exc. 1925 Cu Yds Emb. 1716 Cu Yds			30	106
	15	55		
Emb+12% 1922 Cu Yds Waste 3. Cu Yds			32	74
	19	25		
			69	25
	55	2		
			142	2

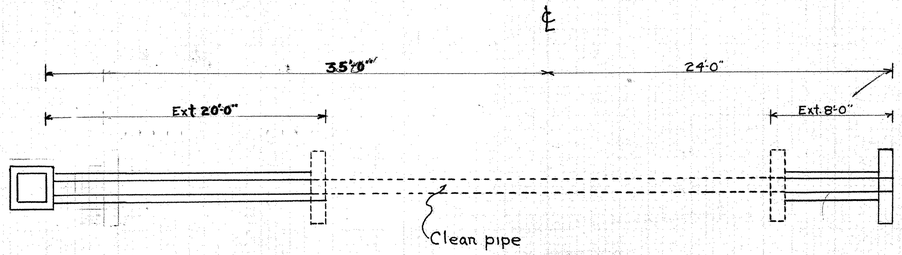


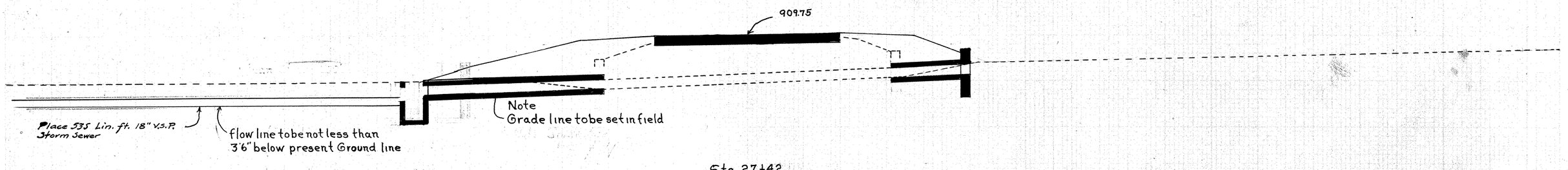


	OLD	NEW
Material	V.S-CI	V.S.
Type	Pipe	Pipe
Size	12"	12"
Length	33'	54'

Clean 12"x33' Pipe

Ext. 12"x20' V.S.P. Left
" 12"x8' " Rt.
Bld. Std. H walls Rt & N°2 C.B.I. Lt.





Sta 27+42

Fed Rd. Dist. No	State	Fed. Aid. Project	Fiscal Year
10	OHIO		

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S.H 325 Sec. D Part
Trumbull County

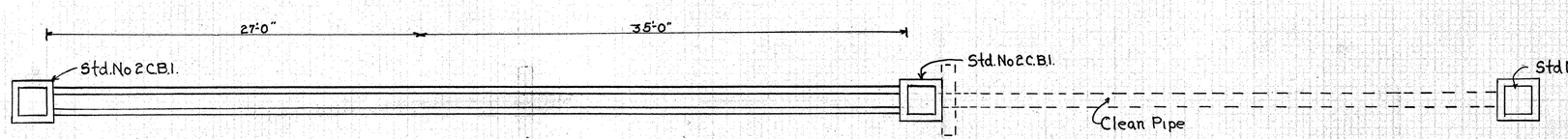
Estimated Quantities

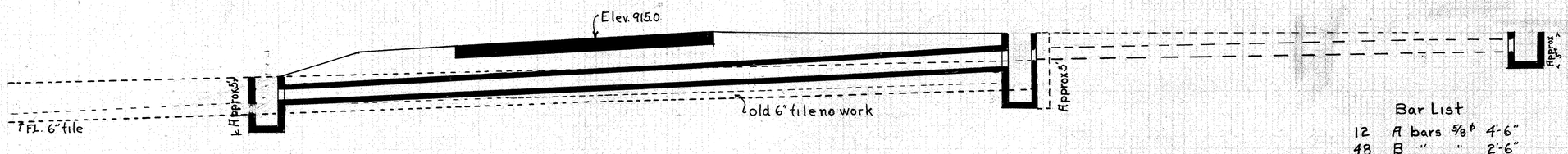
Exca.	215 Cu. Yds.
Concrete (1-8)	2.9 " "
" (1-5½)	3.2 " "
Rein. Steel	93 Lbs.
12" V.S.P.	28 lin. ft.
Clean Pipe	33 " "
18" V.S.P.	535 " "
N°2 C.B.I. Cover	1 Ea.

	OLD	NEW
Material	V.S.	V.S.
Type	Pipe	Pipe
Size	12"	12"
Length	35'	101

Clean 12"x35' of pipe

Bld. Std C.B.Is. as shown
Incase 61' of 12" V.S.P.

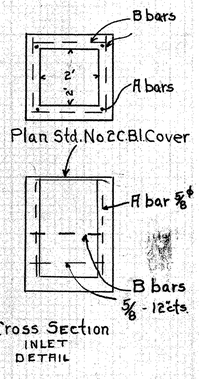




Sta 21+89

Estimated Quantities

Exca.	20 Cu. Yds
Concrete (1-8) mix	6.6 " "
" (1-5½) "	4.0 " "
Rein Steel	181 Lbs.
12" V.S.P.	62 lin. ft.
Clean Pipe	35 " "
N°2 C.B.I. Covers	3 Ea.



Bar List

12 A bars ⅝ ϕ 4'-6"
48 B " " 2'-6"

Scale 1" = 5'

Dr. by Checked
Approved by
Jan. 1930

SUMMARY OF ESTIMATED QUANTITIES

Fed. Rd. Dist. No	State	Fed. Aid Proj	Fiscal Year
10	Ohio		

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STRUCTURES UNDER 20' SPAN

S-H 325 Trumbull Co. Sec. D. Part

No	STATION	Type	Size	Length	R-2 Excn.	S-1 Concrete 1-8	S-1 Concrete 1-6½	S-1 Concrete 1-5½	S-4 Rein. Steel	S-8 Vitrified Pipe 12"	15"	18"	20"	24"	30"	36"	R-3 Clean Chrnn.	I-27 Clean & Relay	S-8 Remove Pipe	I-9 No 2 CBI Cover			
					Cu. Yds.	Cu. Yds.	Cu. Yds.	Cu. Yds.	Lbs	L.F	L.F	L.F	L.F	L.F	L.F	L.F	Cu. Yds.	L. F.	L. F.	Ea.			
	21+89	Pipe	12"	101'	20	6.6		4.0	181	62								35		3	Clean 12"x33' V.S.P Bld. Std. 12" Culvert as shown Sheet N° 6		
	27+42	Pipe	12"	58'	215	2.9		3.2	93	28		535						33		1	" 12"x35' " " " 12" " " " " " 6		
	Total				235	9.5		7.2	274	90		535						68		4			

Beg. of Proj. 17+00
End of Proj. 28+00
Length 1100

ROADWAY

R-1	1925	Cu. Yds. Exc. incl. ~~Borrow & Waste~~
I-3	300	Lin. ft. 6" V.S.P. French Drains
I-3	300	" " 12"x15" " "
R-5	1100	" " Finish Shoulders Slopes & Ditches (Both Sides)
S-1	6.9	Cu Yds. 1-8 Conc. Enc. under drives
I-8	872	Lin. ft. 12" V.S.P. incl. Exca. & Backfill
I-9	2	N°2 Std. C.B.I. Comp. in place
I-9	2	Std. Side ditch Inlets Comp. in place

PAVEMENT MB

B-2	2756	Sq Yds 1st 5" W.B. Base Course N°1 Course Agg. Req 660 tons Slag or 800 tons Limestone
B-2	2756	" " 2nd 4" " " " " N°1 " " " 530 " " 650 " "
T-3	2633	" " 3" Bit Top Course N°2 Course Agg. Req. 360 tons Slag or 440 tons of Limestone

"Note"
Inlets shall not be built until road metal is in place