

GENERAL SUMMARY

FED. RD. DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	4 (4)	1939

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S.H. 2 SEC. J (PT)
CLEVELAND-BUFFALO
LAKE COUNTY

ROADWAY

ITEMS			
E-1	Roadway Excavation (Unclassified)	43,820	CU YDS.
E-4	Borrow (Contractor to furnish)	4,158	CU YDS.
E-11	Water	254	M. Gals.
E-9	Trees and Stumps Removed and Disposed of:	69	EACH
I-3	12" Pipe for Roadway Drainage	1586	LIN. FT.
I-3	15" Pipe for Roadway Drainage	1066	LIN. FT.
I-3	18" Pipe for Roadway Drainage	1573	LIN. FT.
I-3	21" Pipe for Roadway Drainage	2012	LIN. FT.
I-3	24" Pipe for Roadway Drainage	2648	LIN. FT.
I-3	27" Pipe for Roadway Drainage	1030	LIN. FT.
I-3	30" Pipe for Roadway Drainage	1521	LIN. FT.
I-8	Standard Catch Basin No. 12-B	15	EACH
E-10	Sealing (only) of Existing Pavement Edge	13,545	LIN. FT.
I-8	Special Manhole as per plan	1	EACH
I-15	Flexible Steel Plate Tension Type Guard Rail Sec. I-15.03 or Steel Beam Type Guard Rail Sec. I-15.05	1344	LIN. FT.
S-1	Concrete for Crodles - Class "C"	1.34	CU YDS.
I-17	Aggregate for Traffic Bound Side Approaches	143.5	CU YDS.
E-109	Removal and Disposal of 1.45 Acres of Trees and Stumps	Lump	Lump
M-10	Calcium Chloride for Temporary Traffic Lanes	25	Tons
T-110	Aggregate for Temporary Traffic Lanes	2000	CU YDS.

PAVEMENT

I-19	1 1/2" Insulation Course	14,543.3	Sq. YDS.
B-50	3" Hot-Mixed, Hot-Laid Asphaltic Concrete Base Course	1212	CU YDS.
B-50	2 1/2" Hot-Mixed, Hot-Laid Asphaltic Concrete Leveling Course	1316	CU YDS.
T-50	2 1/2" Hot-Mixed, Hot-Laid Asphaltic Concrete Surface Course, Type "B" Wearing Course	28,285.7	Sq. YDS.
T-70	6" Portland Cement Concrete Drives	913	Sq. YDS.
T-71	9'-7'-7'-9" Reinforced Portland Cement Concrete Pavement	28,047.3	Sq. YDS.
T-71	9'-6'-6'-9" Reinforced Portland Cement Concrete Pavement	2240	Sq. YDS.
T-50	Extra Binder	34	CU YDS.
I-11	6"x16" Sandstone Curb, Berea, Amherst, or equal, Machine dressed.	22,512.5	LIN. FT.
B-71	8" Reinforced Portland Cement Concrete Base	848	Sq. YDS.

STRUCTURES 20' SPAN AND UNDER

E-2	Excavation	704	CU YDS.
E-3	Channel Excavation	3179	CU YDS.
S-27	12" Roadway Culvert Pipe	1236	LIN. FT.
I-8	Standard Catch Basins No. 11A	26	EACH
I-8	Standard Catch Basins No. 12A	29	EACH
I-10	Type "B" Riprap Grouted	105	Sq. YDS.
I-2	18" Pipe for Storm Sewer	16	LIN. FT.
I-2	21" Pipe for Storm Sewer	2	LIN. FT.
S-3	Waterproofing Type "B"	100	Sq. YDS.
I-8	Standard No. 1 Side Ditch Catch Basin	4	EACH
S-1	Concrete for Conc. Box Class "C"	396.5	CU YDS.
S-4	Reinforcing steel	69,635	LBS.
I-8	Standard No. 11-B Catch Basins	2	EACH
I-8	Standard No. 12-B Catch Basins	2	EACH
E-12	12" Corrugated Metal Pipe Removed for Re-use	14	LIN. FT.
I-6	12" Corrugated Metal Pipe Relaid	14	LIN. FT.
S-23	Dowel Holes	55	LIN. FT.
S-3	Waterproofing Type "A"	27.4	Sq. YDS.
S-24	Removal of Existing Structures	Lump	Lump
S-27	24" Pipe for Roadway Culverts	54	LIN. FT.

PAVEMENT CALCULATIONS

Begin Project Sta. 279+53.50
End Project Sta. 406+31.97
Gross Length 12,678.47 Lin. Ft.
Short Station 1.57 Lin. Ft.
Short Station 55.62 Lin. Ft.
Net Length Project 12,621.28 Lin. Ft.
T-71-9'-7'-7'-9" Conc. Pav. Reinforced.
Station 279+53.50 To Station 406+31.97 = 12,621.28 Lin. Ft.
Area T-71 (12,621.28 x 10 x 2 x 9) = 28,047.3 Sq. Yds.
T-50 HOT-MIXED, HOT-LAID ASPHALTIC CONC. SURFACE COURSE
Station 279+53.50 To Station 406+31.97 = 12,621.28 Lin. Ft.
Area T-50 (12,621.28 x 20.17 ÷ 9) = 28,285.7 Sq. Yds. Total T-50

B-50 HOT-MIXED, HOT-LAID ASPHALTIC CONC. LEVELING COURSE
Station 279+53.50 To Station 345+00 = 6566.50 Lin. Ft.
6566.50 - 57.19 (Short Stations) = 6489.31 Lin. Ft.
6489.31 x 20.17 ÷ 9 x 2 1/2 ÷ 36 = 1010 Cu. Yds.
From Sta. 345+00 To Sta. 406+31.97 (Estimated) = 306 Cu. Yds.

Total B-50 Leveling = 1316 Cu. Yds.

B-50 HOT-MIXED, HOT-LAID ASPHALTIC CONC. BASE COURSE
6489.31 x 20.17 ÷ 9 x 3 ÷ 36 = 1212 Cu. Yds.

T-50 EXTRA BINDER
Estimated = 34 Cu. Yds.

I-19 INSULATION COURSE
6489.31 x 20.17 ÷ 9 = 14,543.3 Sq. Yds.

B-71 8" REINFORCED CONC. BASE
See Sheet No. 67 = 848 Sq. Yds.

ROADWAY CONTINUED

I-3	18" Corrugated Metal Pipe Paved Bituminous Coated for Roadway Drainage	38	LIN. FT.
I-3	24" Pipe for Roadway Drainage under Pavement	308	LIN. FT.
I-10	Type "A" Riprap Grouted	38	Sq. YDS.
I-8	Standard No. 11-B Catch Basin	1	EACH
I-5	30"x24" Bend for Storm Sewer, Paved Bituminous coated Corrugated Metal Pipe	1	EACH
I-2	21" Pipe for Storm Sewer	193	LIN. FT.
I-2	24" Corrugated Metal Pipe, Paved Bituminous Coated for Storm Sewer	150	LIN. FT.
I-4	6" Pipe Underdrain	500	LIN. FT.
I-5	6"x6" Tees for Pipe Underdrain	3	EACH
E-8	Removal and Disposal of Existing Monolithic Brick Pavement	14,248	Sq. YDS.
E-8	Removal and Disposal of Existing Concrete Pavement	629.5	Sq. YDS.
E-305	Seeding & Protecting Shoulders Slopes & Ditches, as per note on plan.	52,100	Sq. YDS.
L-9	10-6-4 Commercial Fertilizer	9378	LBS.
L-7	Riprap for Tree Protection	329.4	Sq. YDS.
L-8	Aggregate for Tree Root Aeration	71.20	CU YDS.