

# SUMMARY OF QUANTITIES

FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	469-C	1930

19  
19

S.H. (I.C.H.) 15 SEC. H<sub>2</sub>G.  
GEAUGA COUNTY.

\*EXTENDED IN '55

NO.	STATION	TYPE	SIZE	LENGTH	EXCAVATION		CONCRETE		REINF. STEEL	VIT. SEWER PIPE				DOWELS	PAVING	REMOVE		REMARKS
					CULV'T	CHANNEL	1-5 1/2	1-8		12"	15"	16"	12"x12"			NO.	SQ. YDS.	
					CU. YDS.	CU. YDS.	CU. YDS.	CU. YDS.	LBS.	LIN. FT.	LIN. FT.	PCS.	NO.	SQ. YDS.	NO.	NO.		
<b>STRUCTURES 20' AND UNDER</b>																		
+1	402+83	Pipe	18"	33'														Culvert O.K. No work required.
+2	407+52	Pipe	12"	40'	6		2.0	1.1	65	12								2 Build Ext. 6' Rt. & 6' Lt. with Std. 12" V.S.P.
+3	419+30	Box	4'x3'	36'	10		8.4		247				20					2 Build Ext. 4' Rt. & 4' Lt. with Std. 4'x3' Conc. Box.
+4	437+85	Box	3'x3'	43'	18		7.7		212				16					Build Ext. 5' Rt. & 3' Lt. with Std. 3'x3' Conc. Box.
+5	439+87	Pipe	12"	103'	12		2.6	6.7	60	64			4					1 Build 4' Ext. to East & 60' to West, and build 2 Std. Side Rd. Headwalls.
+6	443+92	Pipe	12"	39.3'	1		1.0	0.1	33	2			4					1 Build 2' Ext. Lt. with Std. 12" V.S.P.
+7	459+83	Box	4'x4'	34.7'	32	60	9.1		186				24					2 Build Ext. 2.5' Rt. & 2' Lt. Dig outlet ditch. Std. 4'x4' Conc. Box.
+8	465+16	Pipe	12"	57.5'	10		2.0	1.3	65	14								Build Ext. 8' Rt. & 6' Lt. with Std. V.S.P.
+10	482+90	Pipe	12"	37.8'	15		4.1	0.8	133	10			1	2.0	1			Build 8' Ext. Lt. & build 2 special Hillside Headwalls. 12" V.S.P. Etc.
+11	487+34	Pipe	12"	50'	20		2.6	5.2	60	50								Build new 12"x50' Std. V.S.P. Side Rd. Culv't. Remove old 8" pipe.
+12	496+13	Pipe	16"	45'	8		2.3	0.8	70			8						1 Build Ext. 6' Rt. & 2' Lt. with Std. 15" V.S.P.
+13	503+13	Box	5'x4'	41'	75		30.2		1375									Build new Std. 5'x4'x41' Conc. Box Culv't. Remove old 6'x3'x315 stone & Conc. Culv't.
+14	510+67	Pipe	15"	40'	6	45	2.3	1.0	70		10		8					1 Build Ext. 4' Rt. & 6' Lt. Open new channel to left. Std. 12" V.S.P.
+15	513+43	Box	3'x3'	34.2'	12		7.5		202				16					2 Build Ext. 3.5' Rt. & 4' Lt. with Std. 3'x3' Conc. Box
+16	524+84	Pipe	15"	42'	35		4.7	5.2	147	80	42			2.5	1			1 Build new 15"x42" V.S.P. Culv't. Special Hillside Headwalls. Abandon old Culv't.
+17	539+51.2	Pipe	12"	112'	35		1.3	12.0	30	112								Build 112' of 12" V.S.P. End @ Std. Side Road Headwall.
Totals					295	105	87.8	34.2	2955	344	52	8	1	100	4.5	2	13	
<b>STRUCTURES OVER 20' SPAN</b>																		
9	467+105	Girder	38'x20'															Existing Std. Conc. Girder Bridge O.K. No work Required.
Totals																		

CFN 283221046  
CFN 283221055  
CFN 283221068  
CFN 283221103  
CFN 283221110  
CFN 283221115  
REPLACED IN '55  
REMOVED IN '55  
\*CFN 283221192  
REPLACED IN '55  
CFN 283221214  
CFN 283221227  
CFN 283221241  
CFN 283221247  
CFN 283221268  
CFN 283221296

FROM STATION	TO STATION	CUBIC YARDS				
		Excav.	Emb.	Emb. %	Waste	Borrow
+404+34	419+60	394	725	994		
+419+60	427+00	300	534	667		367
+427+00	431+95	288	231	288		
+431+95	443+00	324	615	769		445
+443+00	461+00	1037	609	761	276	
+461+00	466+80	433	287	359	74	
+466+80	479+80	556	445	556		
+479+80	492+00	1411	414	518	893	
+492+00	498+83	301	241	301		
+498+83	507+00	621	223	279	342	
+507+00	514+30	496	397	496		
+514+30	528+00	865	436	545	320	
+528+00	539+51.2	860	349	436	424	
TOTALS		8486	5576	6969	2329	812

Net Borrow - 536

Bermes, Slopes and Ditches  
Length of Project 13,651.2 Lin. Ft.  
Deduct at Sta. 467+105 40.5 Lin. Ft.  
Total 13,610.7 Lin. Ft.

FROM STATION	TO STATION	SIDE OF ROAD	LIN. FT. V.S.P.		
			8"	10"	12"
436+20	437+82	RT.			162
439+95	441+65	RT.	170		
504+80	509+30	RT.	450		
522+14	524+30	RT.	276		
532+80	537+30	RT.		450	
TOTALS			896	450	162

FROM STATION	TO STATION	SIDE OF ROAD	LIN. FEET
465+68	466+88	LT.	120
464+88	466+88	RT.	200
467+31	468+35	RT.	104
467+31	468+35	LT.	104
482+50	484+50	RT.	200
509+10	510+22	LT.	112
TOTAL			840

STATION	SIDE	LIN. FT. OF PIPE				
		10"	12"	15"	18"	24"
413+50	LT.				20	
413+57	RT.		20			
418+40	LT.					20
426+20	LT.	20				
429+88	LT.		20			
433+56	RT.		20			
434+05	LT.		20			
442+52	RT.	20				
444+90	RT.	20				
452+28	RT.		20			
489+92	LT.		20			
495+70	RT.		20			
516+50	LT.			20		
516+84	LT.			20		
518+30	LT.			20		
520+08	LT.			20		
521+90	RT.			20		
523+68	LT.			20		
527+20	LT.			20		
529+70	RT.			20		
530+44	LT.			20		
533+00	RT.			20		
TOTALS		60	200	140	20	20

REMARKS	CONCRETE			LEFT LIN. FEET	FROM STATION	TO STATION	RIGHT LIN. FEET	CONCRETE		REMARKS
	REMOVE	8-8"	6-6"					9-7-9"	8-8"	
9' wide (Curve)	399.07	359.16	359.16	359.16	423+77.89	427+37.05				
Curve widening		21.75		359.16	423+77.89	427+37.05				
10' Transition	88.88	88.88		80	427+37.05	428+17.05				
10' Resurface			1225.50	1102.95	428+17.05	439+20				
10' Transition	88.88	88.88		90	439+20	440+00				
9' wide (Curve)	418.12	376.31		376.31	482+01.44	485+77.75				
Curve widening		39.75		376.31	482+01.44	485+77.75				
10' New	500.00	500.00		450	506+25	510+75				
Subtotals	1494.95	1474.73	1225.50	450	404+34	405+19	84		32.70	Approach
					405+18	423+77.89	1859.89	1653.24		8' wide
					423+77.89	427+37.05	359.16		359.16	9' wide (Curve)
					427+37.05	427+37.05	359.16		21.75	Curve widening
					427+37.05	464+76	3738.95	3323.51		8' wide
					468+36	482+01.44	1365.44	1213.72		8' wide
					482+01.44	485+77.75	376.31		376.31	9' wide (Curve)
					485+77.75	539+51.2	5393.45	4776.40		8' wide
					504+00	510+00			333.33	Extra widening
TOTALS		1495	1475	1225.50						
Subtotals		10,966.87							1163.00	

Old Pav't. Removed 1495 Sq. Yds.  
9-7-9 Concrete Pav't. 10,966.87 Sq. Yds.  
8-8 Concrete Pav't. 2637.73 Sq. Yds.  
6-6 Concrete Pav't. 1225.50 Sq. Yds.  
Old Pav't. Removed 1000 Sq. Yds. Where Directed.  
8-8 Concrete Pav't. 1000 Sq. Yds. Where Directed.  
33 Cu. Yds. 1-5" Concrete, placed where directed to correct crown & grad. of existing Pav't.