

SUMMARY OF QUANTITIES

No	Station	TYPE	Size	Length	Excav.		12" Vit Pipe		Con. 1:8		Con. 1:5 1/2		Reinf. Steel
					Cu. Yds.	Lin. ft.	Lin. ft.	Cu. Yds.	Cu. Yds.	Cu. Yds.	Lbs.		
1	2+50	Std V.S.P. enc. culvert	12"	32'	6.0	32	3.24						
2	0+72 (Casement)	" " " "	12"	32'	9.6	32	3.24						
3	0+25 (O.N.R.)	" " " "	12"	48'	16.2	48	5.10						
4	1+90 (O.N.R.)	" " " "	12"	32'	17.0	60	3.24	3.0				75	
Total of Quantities					48.8	172	14.82	3.0				75	

From Sta.	To Sta.	Lin. Ft. 6"x10 1/2" Int. Concrete Curb	Lin. Ft. Combined Curb + Gutter
0+43.42 R+L	3+91.30 R+L	695.20	
3+91.30 R+L	6+00 R+L	452.30	
6+00 R+L	8+25 R		149.1
Totals		1148.10	149.1

TOTAL QUANTITIES

Road way	
R-1	+ 9523.5 cu. yds. excavation (unclassified)
R-5	+ 2571 lin. ft. finish shoulders, slopes, ditches (one side)
	+ 3000 sq. ft. cinder sidewalk 4"x4'-0"
I-23	+ 1238 " " 4" concrete sidewalk (1-5 1/2)
I-7	+ 192 lin. ft. type 'D' Guard Rail complete in place
I-4	+ 2200 " " 6" Drain tile in place as directed
I-8	+ 398 " " 12" V.P.S. in place.
I-31	+ 12 " " 12" x 6" Y3 (drain tile connections)
I-9	+ 4 Std. Inlet Basins complete
I-9	+ 2 side ditch Inlet Basins (State Std. No. 1)
I-7	+ 600 lin. ft. exist. type 'B' Guard Rail removed + reset (stringers)
R-1	+ 1228 sq. yds. " 9" Monolithic Brick Pavement removed
S-1	+ 250 cu. yds. 1-5 1/2 Concrete (Footings Ret. Wall)
S-1	+ 26.0 " " 1-5 1/2 " (Ret. Wall)
S-4	+ 1440 lbs. Reinf. Steel (")
R-2	+ 142 cu. yds. excavation (")
R-1	+ 68 " " backfill (")
I-13	+ 30 lin. ft. 12" x 24 oz. folded copper strip Pavement
T-9	+ 1887 sq. yds. brick pavement including cushion + filler.
B-5	+ 1968 " " 7" concrete base course
T-7	+ 16 " " 9" concrete pavement (1-5 1/2)
T-2	+ 1519 " " traffic bound pavement 6"x18"
I-6	+ 31 lin. ft. 12"x12" concrete header.
I-6	+ 1148 " " 6" x 10 3/4" Int. concrete raised curb
I-6	+ 149 " " combined concrete curb + gutter
Structures (Under 20' span.)	
R-2	+ 49 cu. yds. excavation
S-8	+ 172 lin. ft. 12" V.S.P. in place
S-1	+ 15 cu. yds. 1-8 concrete (encasement)
S-1	+ 3 " " 1-5 1/2 " (U-Basins)
S-4	+ 75 lbs. Reinforcing Steel

From Sta.	To Sta.	12" V.P.S. R	12" V.P.S. L
Sta.	Sta.	lin. ft.	lin. ft.
0+94 (C-B)	0+72 (Casement)	372	
0+72 (Casement)	0+25 (O.N.R.)		26
Totals		398	

Station	I.B. R or L
2+50	R+L
0+72 (Casement)	R+L
0+25 (Old N.R.)	R+L
0+25 (Old N.R.)	R+L
Totals	

From Sta.	To Sta.	For	Sq. Yds. Brick	Sq. Yds. base	Sq. Yds. Con. Pav.	Sq. Yds. T.B. Pave 6"x18"
0+43.42	2+0	Widening	189.9	224.7		
2+0	3+91.30	Std. Section	637.7	668.9		
3+91.30	6+00	Intersection	1039.4	1084.5		
6+00	7+25	Widening			16.0	
0+55 (O.N.R.)	4+50 (O.N.R.)	Surfacing				869.0
0+75 (Casement)	4+0 (Casement)	"				650.0
Totals			1887.0	1968.1	16.0	1519.0

Excav.	1420 Cu. Yds.
Backfill	68.0 " "
1-5 1/2 Con. (Wall)	26.00 " "
1-5 1/2 Con. (Ftg)	25.00 " "
Reinf. Steel	1440 lbs.
Folded Copper Joint	30.3 lin. ft.

From Sta.	To Sta.	Excavation	Emb+25%	Waste
0+43.42 (C-B)	7+25 (C-B)	3180.0	360.3	2819.7
0+55 (Old N. Ridge)	4+50 (Old N. Ridge)	1866.0	82.5	1783.5
0+0 (Casement Ave)	4+0 (Casement Ave)	4784.6	8.3	4776.3
Totals in Cu. Yds.		9830.6	451.1	9379.5

N.B. Excavation total includes 1228.4 sq. yds. 9" Pave. For excavation excluding Pave, deduct 307.1 cu. yds. - 307.1
Net excavation in Cu. Yds. = 9,523.5

From Sta.	To Sta.	R or L	Lin. Ft.
0+44	1+40	R	96
0+44	1+40	L	96
Total			192

N.B. Waste excavation to be placed at west end of bridge over Grand River and used for widening berms to a uniform width. Stringers to be removed from existing guard rail and reset when fill is completed.

FROM STA.	TO STA.	SQ. YDS.
2+00 (C-B)	6+0 (C-B)	1228.4
Total		1228.4

SUMMARY OF DRAIN TILE
Sta. 2+0 to Sta. 7+25
2200 lin. ft. 6" drain tile in place 30" deep, cinder or gravel backfill, used as lateral or diagonal drains + 12-12" x 6" Y3 for drain tile connections as directed by the Engineer.

From Sta.	To Sta.	R or L	4"x4'-6" Con. 1-5 1/2 Sq. ft.	4"x4'-0" Cinder Sq. ft.
0+43.42 (C-B)	0+75 (Casement)	R		1600
0+75 (Casement)	4+0 (Casement)	L		1400
5+32.6 (C-B)	6+68.6 (C-B)	L	6120	
5+41.5 (C-B)	6+80.5 (C-B)	R	6260	
Totals			1238.0 sq. ft.	3000 sq. ft.

Station	Length	Width	Depth
0+75 (Casement)	31'-0"	12"	12"
Total		31 lin. ft.	

From Sta.	To Sta.	On Road	Side	Lin. Ft.
0+43.42	3+91.30	Cleve. Buff	Left	347.88
3+91.30	5+32.60	" " "	"	101.16
6+68.60	7+25.00	" " "	"	56.40
0+43.42	3+91.30	" " "	Right	349.88
3+91.30	0+75.00	Casement	"	75.05
4+90.00	5+41.50	Cleve. Buff	"	51.50
Intersection	Cleve. Buff + Old N. Ridge	Both	"	95.00
0+50	4+50	Old N. Ridge	"	800.00
0+75	4+00	Casement	"	650.00
6+80.50	7+25	Cleve. Buff	Right	44.50
TOTAL		2511.37		

LOCATION	LIN. FT.
1+37 Casement Ave.	40
Total	40 lin. ft.