

GENERAL SUMMARY (CONT'D.)

*100% Participation City of Willoughby UG-1090(1)

ITEM NO.	U-1090 (1) CODE TYPE 722/1 APPROACH	UG-1090(1) CODE TYPE 722/1	UNIT	TOTAL	DESCRIPTION	
DRAINAGE						
I-16		11	Each	24	Catch Basins Abandoned, as per Plan	
I-16		1	Each	5	Manholes Abandoned, as per plan	
I-16		2	Each	2	Inlets Abandoned, Salvage Frame And Cover as per plan.	
45	E-12		45	Lin. Ft.	90	Pipe Removed (Under 15")
366	E-12		657	Lin. Ft.	1023	Pipe Removed (15" and Over)
S-15	LUMP SUM	LUMP SUM	LUMP	SUM	TEMPORARY RUN-AROUND ROADS, CLASS B AS PER PLAN	
S-15	LUMP SUM	LUMP SUM	LUMP	SUM	TEMPORARY RUN-AROUND ROAD, CLASS A AS PER PLAN	
SPECIAL	LUMP SUM	LUMP SUM	LUMP	SUM	CONSTRUCTION LAYOUT STAKES	
STRUCTURES OVER 20 FT. SPAN						
LAK-640-0282 FOR QUANTITIES SEE SH.# 63						
LAK-640-0286 FOR QUANTITIES SEE SH.# 85						

*NO STATE OR FEDERAL PARTICIPATION ON SANITARY SEWERS. THE CITY OF WILLOUGHBY SHALL PARTICIPATE 100%.

SUMMARY OF EXTRA AREA QUANTITIES

SHEET NO.	E-8		B-35	B-70	T-30	T-35		T-71	I-11 Sandstone Curb				I-12	I-15	I-21	I-22		
	Removal & Disposal of Exst. Pavt Sq. Yds.	Removal & Disposal of Exst. Curb Lin. Ft.	1 1/2" Min. Thick Asphaltic Leveling Course Sq. Yds.	9" Portland Cem. Conc. Base Course Sq. Yds.	Bituminous Tack Coat Gals.	1 1/2" Asphaltic Concrete Surface Course Sq. Yds.	1 1/2" Average Asphaltic Concrete Surface Course Sq. Yds.	9" Reinf. Port Cem. Conc. Pavt Sq. Yds.	1" Bullnose				3" Bullnose	Standard Type 2-A Con. Curb Without Rail Lin. Ft.	Wood Guard Rail Posts Without Rail Each	4" Portland Cem. Conc. Median Pavt Sq. Yds.	Subbase Cu. Yds.	
20		400	1155.5	3555	35.55	1155.5	100		401.28								59.3	
TOTALS		400	1156	356	36	1156	100		401.28									59.3
20	135							961.1	110.12					125.66				160.2
21								1384	320.17					48.99		29.6		243.0
22								1053	557	38.12								176
TOTALS	135							3398	987.29	38.12				125.66		30		579.2
20																		
21	365	78						459.9	227.18						5			76.6
22	496	375.0						2585	423.81	40.42				4.85	474.86		4.90	433
TOTALS	861	453						3045	650.99	40.42				4.85	474.86	5	5	510

SUGGESTED CONSTRUCTION PROCEDURE AND TRAFFIC MAINTENANCE

Ben-Hur Service Rd. from Vine St. to Existing Ben-Hur Ave., Northerly 14' of Vine St. pavement from Sta. 137+85.75 to Sta. 139+13.50 and Temporary Pavement (shown on Sh.#21) shall be completed before traffic on Existing Ben-Hur Ave is disturbed. During the period required to remove and replace Existing Ben-Hur Ave. pavement, a minimum of one lane of traffic shall be maintained using Existing Ben-Hur Ave and Ben-Hur Service Road to Vine St.

After the completion of Ben Hur Service Road, as stated above, and Temporary Vine St. Run-Around Road, Existing Vine St. shall be closed to traffic, and four lanes of Vine St. traffic shall be maintained using the Temporary Run-Around Rd. Temporary Railroad Tracks shall be constructed by the Railroads across the Run-Around Road in conjunction with the paving of that portion of the Run-Around Road.

Construction of the maximum amount of East and West Bound Vine St. pavement from Sta. 139+59.98 to Sta. 156+85.02 shall be completed before work is started on the remaining portions of Vine St. pavement. These remaining portions of Vine St. pavement shall be completed as one continuous operation and in one construction season.

During the construction of Southerly Temporary Pavement (shown on Sh.#22), Southerly 14' of Vine St. pavement between Mooreland Ave. and St. Clair Ave., Southerly Half of Merger from Sta. 132+75 to Sta. 135+00 a minimum of two lanes of Vine St. traffic shall be maintained.

The remaining West Bound Vine St. Pavement shall be constructed by maintaining two lanes of Vine St. traffic on Existing East Bound Vine St. pavement, Southerly Temporary Pavement (shown on Sh.#22), Temporary Vine St. Run-Around Road, new Southerly 14' of Vine St. pavement between Mooreland Ave. and St. Clair Ave. and Southerly Half of Merger from Sta. 132+75 to Sta. 135+00.

The remaining East Bound Vine St. pavement shall be constructed by maintaining two lanes of traffic on new West Bound Vine St. Pavement and Northerly Temporary Pavement (shown on Sh.#22)

Access to East and West Bound St. Clair Ave. shall be maintained at all times by using either Mooreland Ave. or North and South Bound St. Clair Ave.

In lieu of the above method of maintaining traffic the Contractor may submit to the Director for approval a written detailed schedule of work procedure and sequence of construction operations of his alternate methods of maintaining traffic. If the Contractor's Proposed Method does not meet with the approval of the Director the procedure as called for herein shall be followed.

EARTHWORK

Station		Excavation	Embankment	Emb+22
From	To	Cu. Yds.	Cu. Yds.	Cu. Yds.
133+00	135+00	207	49	60
ADDITIONAL EMBANKMENT FOR BASEMENTS SH#12			56	68
EXCAVATION FOR DRIVEWAYS SH.#12		11		
TOTAL		218	105	128
135+00	140+00	1970	140	171
159+50	161+90	143	11	13
EXCAVATION DEDUCTION FOR BASEMENTS SH#12			-86	
ADDITIONAL EMBANKMENT FOR BASEMENTS SH#12			592	722
Excav. For Drives (sh.#12)		44		
" (sh.#14)		26		
TOTAL		2097	743	906
140+00	143+00	2,745	0	0
143+00	153+00	72,520	53	65
153+00	159+50	18,690	0	0
Excav. Ded. For Base (sh.#12)		-5		
" (sh.#13)		-557		
" (sh.#14)		-67		
EMB. ADD. FOR BASE (sh.#12)			822	1003
" (sh.#13)			1120	1366
" (sh.#14)			804	981
BACKFILL AT STRUCTURE SH#32			7089	8,649
TOTAL		93,326	9,888	12,064

TEMPORARY RUNAROUNDS

LOCATION	ITEM S-15 using Portland cement Conc. Pavt. CLASS A	ITEM S-15 Using Asphaltic concrete Pavt. CLASS B
Sheet 18	Lump	
Sheet 19	Lump	
Sheet 21		Lump
Sheet 22		Lump
TOTALS	Lump	Lump

EARTHWORK RECAP

Items	Available Embankment	Embankment 22% Required
	Cu. Yds.	Cu. Yds.
TOTALS FROM EARTHWORK TABLE	218	128
" " " "	2097	906
" " " "	93,234	12,064
Rem. & Disp. of Exst. Pavt U-1090 (1) Code 722 (from Pavt. Calc.) [(15)(2000+260+135)+(6)(435)]= [36] =	1,362	
Rem. & Disp. of Exst. Pavt. UG-1090(1) Code 722 (from Pavt. Calc.) [(15)(7800+160)+(6)(207)+(12)(496)+(6)(328)]=	3,581	
Rem. & Disp. of Exst. Drive Pavt U-1090(1) (from Driveway Summary Table) 6x19=36 =	3	
Rem. & Disp. of Exst. Sidewalk U-1090(1) from Sidewalk Summary Table (2105+9)(4+36) =	26	
Rem. & Disp. of Exst. Sidewalk UG-1090(1) Code 722 (from Sidewalk Summary Table) (9,934+9)(4+36) =	246	
Rem. & Disp. of Exst. Sidewalk U-1090(1) Code 722 (from Sidewalk Summary Table) 8866+9(4+36) =	110	
Rem. & Disp. of Pavt UG-1090(1) Code 722 (from Temporary Run-Around) 288 Cu. Yds.	1,888	
Rem. & Disp. of Sidewalk UG-1090(1) Code 722 (from Temporary Run-Around) 10.1 Cu. Yds. (alk)	101	
TOTAL AVAILABLE EMB. MAT.	102,866	
TOTAL EMB.+22% REQUIRED		13,098
TOTAL SURPLUS EXCAVATION	89,768	

LAKE COUNTY SEC. LAK. 640-2.56