

# GENERAL SUMMARY

## PAVEMENT CALCULATION CONT'D

LAKE COUNTY  
SEC. LAK-640-256

ITEM NO.	U-1090 (1)		UG-1090(1)	UNIT	TOTAL	DESCRIPTION
	7221 APPROACH	7221				
<b>ROADWAY</b>						
U UG E-1	218	2097	93326	Cu. Yds.	95,641	Roadway Excavation, Method B, As Per Plan
E-1		5893	17,498	Sq. Yds.	23,391	Compacted Subgrade
E-8	19	3530	9,290	Sq. Yds.	12,839	Removal And Disposal Of Existing Pavement
E-8	400	1,487	3,582	Lin. Ft.	5,469	Removal And Disposal Of Existing Curb
E-8	2105	8,866	19,934	Sq. Ft.	30,905	Removal And Disposal Of Existing Sidewalk
I-8		1	1	Each	2	Monument Assemblies Type "B", as per plan
I-13	1790	6,995	25,972	Sq. Ft.	34,757	4" Concrete Sidewalks
I-15			5	Each	5	Wood Guard Rail Posts Without Rail
L-9	824	3,944	26,715	Sq. Yds.	31,483	Seeding And Protecting
L-9	0.07	0.36	2,40	Tons	2.83	Commercial Fertilizer (12-12-12)
L-9	0.37	1.78	12.02	Tons	14.17	Agricultural Liming Material
E-11	0.94	9.84	79.22	M. Gals	90	Water
T-10		50	50	Cu. Yds.	100	Traffic Compacted Surface Course For Maintaining Traffic
M-10		1	1	Tons	2	Calcium Chloride Furnished and Applied For Maintaining Traffic
T-35		10	10	Cu. Yds.	20	Asphaltic Concrete Surface Course or an approved bituminous premixed surface course for maintaining traffic.
I-15			87.5	Lin. Ft.	87.5	Guard Rail, Steel Beam Standard Type (Deep), as per plan
<b>PAVEMENT</b>						
T-71		5893	17498	Sq. Yds.	23391	9" Reinforced Portland Cement Concrete Pavement
T-35	52			Cu. Yds.	52	Asphaltic Concrete Surface Course, Type "A" or "C" (70-85)
B-35	80			Cu. Yds.	80	Asphaltic Concrete Leveling Course (70-85)
B-70	356			Sq. Yds.	356	9" Portland Cement Concrete Base Course
T-30	36			Gals.	36	Bituminous Tack Coat, Sec. M-55, M5-2 OR R5-1, OR Sec. M-52, RC-1, RC-2 OR RC-3, as per Sec. T-30.02, as per plan
I-11	401	1,316	2,740	Lin. Ft.	4,457	6" x 18" Sandstone Curb
I-11			1,109	Lin. Ft.	1,109	6" x 20" Sandstone Curb
I-12		580	6,286	Lin. Ft.	6,866	Standard Type 2-A Concrete Curb
I-21		151	1,649	Sq. Yds.	1,800	4" Portland Cement Concrete Median Pavement, Standard Type 1, as per plan
I-22	59	1,062	3,773	Cu. Yds.	4,894	Subbase
I-23		34		Each	34	Precast White Portland Cement Concrete Traffic Dividers
T-70	54	360	79	Sq. Yds.	493	8" Portland Cement Concrete Pavement (For Driveways)
<b>DRAINAGE</b>						
I-2			1,122	Lin. Ft.	1,122	12" Class "B" Storm Sewers
I-2			140	Lin. Ft.	140	12" Class "B" Storm Sewers Under Pavement or Approaches Sec. M-6.6(b) or M-6.8(b)
I-2			24	Lin. Ft.	24	12" Class "B" Storm Sewers Under Pavement or Approaches, M-6.4(c)
I-2		583	1,260	Lin. Ft.	1,843	12" Class "B" Storm Sewers Under Pavement or Approaches
I-2			384	Lin. Ft.	384	18" Class "B" Storm Sewers Under Pavement or Approaches
I-2			288	Lin. Ft.	288	21" Class "B" Storm Sewers Under Pavement or Approaches
I-2			340	Lin. Ft.	340	30" Class "B" Storm Sewers Under Pavement or Approaches
1180				Lin. Ft.	1180	15" Storm Sewers Under Pavement or Approaches, M-6.8(b) (Sanitary)
78				Lin. Ft.	78	12" Storm Sewers (M-6.8(a) (Sanitary))
I-4	400	1,641	6,963	Lin. Ft.	9,004	6" Underdrains
I-5			8	Each	8	12" Class "B" Pipe Specials For Storm Sewers Under Pavement or Approaches
I-5			2	Each	2	18" Class "B" Pipe Specials For Storm Sewers Under Pavement or Approaches
I-5			2	Each	2	21" Class "B" Pipe Specials For Storm Sewers Under Pavement or Approaches
I-5			4	Each	4	30" Class "B" Pipe Specials For Storm Sewers Under Pavement or Approaches
I-8			2	Each	2	Special Curb Inlet with Salvaged Frame and Cover (#1) as per plan
I-8		2	2	Each	4	Standard Manholes No. 1
I-8			4	Each	4	Special Dual Manhole No. 1 (as per plan)
I-8			2	Each	2	Special Dual Manhole No. 2 (as per plan)
I-8		4	4	Each	8	Standard Catch Basin No. 2-A
I-8		1	1	Each	2	Special Curb Inlet #1, as per plan
I-8		1	1	Each	2	Special Curb Inlet #2, as per plan
I-8			6	Each	6	Standard Catch Basin No. 3
I-8		6	14	Each	20	Standard No. 2-10 Median Inlet, as per plan
I-8			2	Each	2	Special Curb Inlet with Salvaged Frame & Cover (#2)
3				Each	6	Manholes Rebuilt, as per plan
1	2		5	Each	10	Manholes Adjusted To Grade
I-2			214	Lin. Ft.	214	30" Class "B" Storm Sewers Under Pavement or Approaches Sec. M-6.6(b) or M-6.8(b)

GENERAL SUMMARY CONT'D. (Sheet #10)

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

### I-11 6" x 18" SANDSTONE CURB 1" BULLNOSE

U-1090(1) CODE TYPE 7221  
Sta. 136+05.06 To Sta. 137+85.75 180.69 Ft. x 2 = 361.38 Lin. Ft.  
Sta. 139+13.50 To Sta. 140+00.0 86.5 Ft. x 2 = 173.00 Lin. Ft.

Extra Area Summary Table  
Gross Total 987.29 Lin. Ft.  
Deductions For Driveways & Catch Basins (302+6@11.33') - 369.98 Lin. Ft.  
Net Total 1151.69 Lin. Ft.  
Extra Area Summary - 25 Ft. Radius Curb 38.12 Lin. Ft.  
" " " - 40 Ft. " 125.66 Lin. Ft.  
GRAND TOTAL 1315.47 Lin. Ft.

### UG-1090(1) CODE TYPE 7221

Sta. 140+00 To Sta. 147+00 700.0 Ft. x 2 = 1400.00 Lin. Ft.  
Sta. 153+00 To Sta. 157+31.51 431.51 Ft. x 2 = 863.02 Lin. Ft.  
Extra Area Summary Table (SH N#10) 650.99 Lin. Ft.

Gross Total 2914.01 Lin. Ft.  
Deductions For Driveways & Catch Basins (72+13@11.33') - 219.29 Lin. Ft.  
Net Total 2694.72 Lin. Ft.  
Extra Area Summary 25 ft. Radial Curb 40.42 Lin. Ft.  
" " " 2 ft. Radius Bumper Block 3" Bullnose 4.85 Lin. Ft.  
GRAND TOTAL 2739.99 Lin. Ft.

### I-11 6" x 20" SANDSTONE CURB 1" BULLNOSE

UG-1090(1) CODE TYPE 7221  
Sta. 147+00 To Sta. 153+00 = 600 Lin. Ft. x 2 = 1200 Lin. Ft., -(8@11.33' = 90.64' For Catch Basins) = 1109.36 Lin. Ft.

E-1 COMPACTED SUBGRADE  
U-1090(1) CODE TYPE 7221  
Same as T-71 9" Reinf. Conc. Pave. (SH. N#8) 5893.44 Sq. Yds.  
UG-1090(1) CODE TYPE 7221  
Same as T-71 9" Reinf. Conc. Pave. (SH. N#8) 17498.18 Sq. Yds.

### E-11 WATER @ .005 M. GALS PER CU. YD.

U-1090(1) APPROACH  
Earthwork Summary Table (Sheet No. 10) 128 C.Y. x .005 = 0.640 M. Gals.  
I-22 Subbase (Extra Area Table Sheet #10) 59 C.Y. x .005 = 0.295 M. Gals.  
0.935 M. Gals.

U-1090(1) CODE TYPE 7221  
Earthwork Summary Table (Sheet No. 10) 906 C.Y. x .005 = 4.530 M. Gals.  
I-22 Subbase (Sheet No. 8) 1062.39 C.Y. x .005 = 5.312 M. Gals.  
9.842 M. Gals.

UG-1090(1) CODE TYPE 7221  
Earthwork Summary Table (Sheet No. 10) 12,064 C.Y. x .005 = 60.320 M. Gals.  
I-22 Subbase (Sheet No. 8) 3772.66 C.Y. x .005 = 18.863 M. Gals.  
79.183 M. Gals.

### L-9 AGRICULTURAL LIMING MATERIAL (Applied @ 100 lbs. per 1000 Sq. Ft.)

U-1090(1) APPROACH  
Seeding & Protecting Summary Table (Sheet No. 7) - (824 S.Y. x 9 x 100) ÷ 1000 x 2000 = 0.371 Tons  
U-1090(1) CODE TYPE 7221  
Seeding & Protecting Summary Table (Sheet No. 7) - (3944 S.Y. x 9 x 100) ÷ 1000 x 2000 = 1.775 Tons  
UG-1090(1) CODE TYPE 7221  
Seeding & Protecting Summary Table (Sheet No. 7) - (26715 S.Y. x 9 x 100) ÷ 1000 x 2000 = 12.022 Tons

### L-9 COMMERCIAL FERTILIZER (Applied @ 20 lbs. per 1000 Sq. Ft.)

U-1090(1) APPROACH  
Same as L-9 Liming Material (824 S.Y. x 9 x 20) ÷ 1000 x 2000 = 0.074 Tons  
U-1090(1) CODE TYPE 7221  
Same as L-9 Liming Material (3944 S.Y. x 9 x 20) ÷ 1000 x 2000 = 0.355 Tons  
UG-1090(1) CODE TYPE 7221  
Same as L-9 Liming Material (26715 S.Y. x 9 x 20) ÷ 1000 x 2000 = 2.404 Tons