

CONCRETE PAVEMENT – CEMENT TREATED BASE – GEOGRID REINFORCED BASE – LIME TREATED SUBGRADE SUMMARY

LOCATION	STATION TO STATION	CONCRETE PAVEMENT			CEMENT TREATED BASE				GEOGRID REINFORCED BASE		150 mm LIME TREATED SUBGRADE		
		260 mm (UNIF.) (AE) (NRDJ)	240 mm (UNIF.) (AE) (NRDJ)	INTREGAL CURB	CEMENT TREATED BASE ●	CEMENT Mg ▲	ASPHALT Mg ▲	WATER Mg ▲	AGGREGATE BASE (SPECIAL) sq m	GEOGRID sq m ▲	LIME Mg	MANIPULATION sq m	WATER Mg
		sq m	sq m	m	sq m	Mg	Mg	Mg	sq m	sq m	Mg	sq m	Mg
W.B. KELLOGG	4+244.422 – 4+846.942	12 587.8			12 749.3	171.5	11.5	252.4			126.4	12 749.3	1 010.9
E.B. KELLOGG	4+244.422 – 4+846.942	12 925.9			13 090.5	176.1	11.8	259.2			129.7	13 090.5	1 037.9
EASTERN	49+975.049 – 50+025.871		408.4						514.7	514.7			
KELLOGG	WEST TRANSITION								6 010.4	6 010.4			
KELLOGG	EAST TRANSITION								7 555.6	7 555.6			
TOTALS		25 513.7	408.4		25 839.8	347.6	23.3	511.6	14 080.7	14 080.7	256.1	25 839.8	2 048.8

● BASIS OF CALCULATIONS:
 CEMENT = 6% OF AGGREGATE WT.
 AGGREGATE = 2242 Kg/cu m
 ASPHALT = 0.90 L/m²
 WATER = 0.198 m³/m³ OF PCTB

■ BASED ON AGGREGATE AT 1 762 kg/m³
 DRY PEBBLE QUICK LIME = 3.75% OF WEIGHT OF SOIL
 WATER = 30% OF WEIGHT OF SOIL
 ▲ FOR INFORMATION ONLY

IMPACT ATTENUATOR

LOCATION	STATION	HAZARD TYPE		NO. OF UNITS	REMARKS
		NARROW	WIDE		
E. KELLOGG AVE.	4+755	1			
RAMP I	4+235.856		1		
RAMP J	4+287.996		1		
TOTALS		1	2		

CONCRETE SAFETY BARRIER

LOCATION	STATION TO STATION	SIDE	TYPE I	TYPE II	REMARKS
			MODIFIED m	m	
℄ KELLOGG AVE.	4+244.411 – 4+755.0	℄	510.6		
LT. & RT. KELLOGG AVE.	4+290.000 – 4+846.942			1 224.1	
TOTALS			510.6	1 224.1	

BRIDGE APPROACH PAVEMENT

BRIDGE LOCATION	BRIDGE NO.	CONCRETE PAVEMENT (300 mm UNIF.)(AE) BRIDGE APPROACH sq m	APPROACH BARRIER	
			CONCRETE (GRADE 31) (AE) cu m	REINFORCING STEEL (GRADE 420) (EPOXY COATED) kg
WB KELLOGG	54-87-31.55 (704)	427.4	12.6	1 300
EB KELLOGG	54-87-31.56 (705)	412.2	4.8	570
TOTALS		839.6	17.4	1 870

UNDERDRAIN			
LOCATION	MANHOLE TYPE P-STD	375 mm RCP m	600 mm RCP m
MH EA3 – MH EA2	2	9.1	
MH EA1 – MH EA2	1	18.1	
MH EA4 – MH EA5	2	17.6	
MH EA6 – MH EA5	1	9.6	
MH EA5 – RCB			80.3
TOTALS	6	54.4	80.3

CONCRETE CURB AND GUTTER

LOCATION	STATION TO STATION	SIDE	LENGTH – m		REMARKS
			TYPE I	TYPE I MODIFIED	
WEST TRANSITION	W. BOUND	RT.	215.3		
WEST TRANSITION	E. BOUND	LT.	219.4		
EASTERN	49+975 – 50+025.921	LT. & RT.	101.2		
RAMP I		LT.		13.8	
TOTALS			535.9	13.8	

SHOULDER PAVEMENT REINFORCEMENT

NO. OF PANELS	kg/Panel	Reinforcing Steel (Grade 420)(Epoxy Coated) (kg)
239	283	67 637
TOTALS		67 637

EARTHWORK SUMMARY

LOCATION	STATION TO STATION	EXCAVATION				COMPACTION			PLACING SELECT SOIL	WASTE	
		COMMON		ROCK (PVMT. REMOVAL)		CONTRACTOR FURNISHED	TYPE AA MR-0-4	TYPE B MR-90		TYPE	* COMMON
		cu m	VMF	cu m	VMF	cu m	VMF	cu m	cu m	cu m	cu m
WEST TRANSITION	STA. 3+892.997 – STA. 4+244.422	11 790	0.80	1 518	1.000	–	0.80	92	–	11 675	1 518
KELLOGG AVE.	STA. 4+244.422 – STA. 4+846.942	3 783	0.80	3 776	1.000	145 162	0.80	119 156	–	–	3 776
EAST TRANSITION	STA. 4+846.942 – STA. 5+085.665	462	0.80	798	1.000	3 521	0.80	3 187	–	–	798
TOTAL		16 035		6 092		148 683		122 435		11 675	6 092

* The material to be wasted may be used on the project, if acceptable to the Engineer.