REINFORCED CRUSHED ROCK BASE

STATION	CRUSHED ROCK BASE (200 mm) (m2)	GEOGRID REINFORCE-MENT (FOR BASE) (m2)	REMARKS
HILLSIDE:			
0+181.670 – 0+547.920	7168.67	7168.67	
0+547.920 – 0+601.353	229.25	229.25	Widening and Overlay
0+601.353 – 0+693.900	113.85	113.85	Overlay and Median
0+530 Perimeter Rd.	72.56	72.56	Valley Gutter
18TH STREET NORTH:			
4+940.898 – 4+983.841	388.70	388.70	
STADIUM:			
4+964.959 – 4+972.716	77.48	77.48	
MAPLEWOOD:			
4+968.821 – 4+977.970	108.96	108.96	
PROJECT TOTAL	8159.47	8159.47	

A. C. PAVEMENT (BM-2, PG 70-28)

STATION	A.C. WEARING SURFACE (50 mm) (m2)	A.C. BIT. BASE (PG 70-28) (125 mm) (m2)	A.C. OVERLAY (50 mm) (m2)	REMARKS
HILLSIDE:				
0+181.670 – 0+547.920	6205.47	6205.47		
0+547.920 – 0+601.353			925.87	Widening and Overlay
0+601.353 – 0+693.900			1357.73	Overlay and Median
0+693.900 – 0+770.339			1650.44	Overlay Only
18TH STREET NORTH:				
4+940.898 – 4+983.841	307.34	307.34		
STADIUM:				
4+964.959 – 4+972.716	60.95	60.95		
MAPLEWOOD:				
4+968.821 – 4+981.161	86.40	86.40		
PROJECT TOTAL	6660.16	6660.16	3934.04	

REMOVAL OF EXISTING STRUCTURES *
(FOR INFORMATION ONLY)

STATION	OFFSET	DESCRIPTION
STORM SEWER:		
0+393.69	8.1 m Lt.	Curb Inlet
0+393.69 to 0+437.59	8.1 to 10.1 m Lt.	381 mm x 43.4 m RCP
0+437.59	10.1 m Lt.	Manhole
0+437.59 to 0+438.14	10.1 to 13.2 m Lt.	610 mm x 3.2 m RCP
0+438.14 to 0+438.22	13.2 to 30.1 m Lt.	610 mm x 16.9 m RCP
0+437.59 to 0+435.09	10.1 m Lt. to 7.5 m Rt.	610 mm x 17.6 m RCP
SANITARY SEWER		
0+436.28	15.6 m Lt.	Manhole
0+487.25	15.7 m Lt.	Manhole
0+660.37	15.5 m Lt. to 13.5 m Rt.	200 mm x 29.0 m pipe

HOUSE FOUNDATIONS: Hillside

STATION	SIDE	DESCRIPTION	STATION	SIDE	DESCRIPTION
0+255	Lt.	Demo. Backfill Stabilization	0+465	Lt.	Demo. Backfill Stabilization
0+270	Lt.	Demo. Backfill Stabilization	0+505	Lt.	" (Basement)
0+285	Lt.	Demo. Backfill Stabilization			
0+300	Lt.	Demo. Backfill Stabilization	18th Street		
0+315	Lt.	Demo. Backfill Stabilization	4+960	Lt.	Demo. Backfill Stabilization
0+330	Lt.	Demo. Backfill Stabilization			
0+345	Lt.	Demo. Backfill Stabilization			
0+360	Lt.	Demo. Backfill Stabilization			
0+375	Lt.	Demo. Backfill Stabilization			
0+390	Lt.	Demo. Backfill Stabilization			
0+420	Lt.	" (Basement)			

*THE LISTING MAY NOT BE COMPLETE. PAYMENT FOR STRUCTURES OR OBSTRUCTIONS NOT LISTED BUT WHOSE REMOVAL IS REQUIRED BY THE CONSTRUCTION, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE BID ITEM " REMOVAL OF EXISTING STRUCTURES".

UTILITY ADJUSTMENTS

STATION/OFFSET	WATER VALVE	MANHOLE	REMARKS
0+191.89, 8.45 m Lt.	1		2" Service
0+195.38, 3.67 m Rt.		1	SWB Manhole
0+198.03, 9.37 m Lt.	1		
0+213.41, 9.44 m Lt.	1		
0+449.18, 9.68 m Lt.	1		
0+448.49, 9.04 m Lt.	1		
0+535.36, 9.47 m Lt.	1		
PROJECT TOTAL	6	1	

FOR INFORMATION ONLY:
Fire Hydrant Assy. To be relocated by C.O.W. prior to const. 0+213.42, 11.26 m Lt.
Firy Hydrant Assy. To be relocated by C.O.W. prior to const. 0+453.10, 7.92 m Lt.
Fire Hydrant Assy. To be relocated by C.O.W. prior to const. 0+534.45, 11.88 m Lt.

CURB AND GUTTER, COMBINED

STATION TO STATION	SIDE	TYPE I (m)	TYPE II (m)	TYPE III (m)	Monolithic Edge Curb (m)	REMARKS
HILLSIDE:						
0+181.67 – 0+212.23	Lt.	40.53				Inc. 1 curb return
0+224.38 – 0+438.22	Lt.	221.68				Inc. 2 curb return
0+244.69 – 0+355.97	Rt.	111.28				
0+376.15 – 0+434.20	Rt.	58.05				
0+447.60 – 0+523.60	Lt.	86.74				Inc. 2 curb return
0+532.38 – 0+601.35	Lt.	73.45				Inc. 1 curb return
0+547.92 – 0+601.35	Rt.	53.43				
18TH STREET NORTH:						
4+940.90 – 4+983.841	Lt.	40.96				
4+940.90 – 4+975.30	Rt.	36.39				
STADIUM STREET						
4+964.96 – 4+972.68	Lt.	7.72				
4+964.96 – 4+972.72	Rt.	7.76				
MAPLEWOOD						
4+971.56	Lt.		3.98			Through driveway
4+968.82 – 4+977.97	Rt.	9.15				
4+968.82 – 4+981.16	Lt.	8.36				Excludes driveway
HILLSIDE MEDIAN						
0+271.64 – 0+435.08	℄			331.29		Includes Transition
0+450.57 – 0+520.71	℄			147.06		Includes Transition
0+627.90 – 0+692.29	℄			131.80		Includes Transition
PERIMETER ROAD					14.36	Valley Gutter
TOTAL		855.50	3.98	610.15	14.36	

SIDEWALK CONSTRUCTION (AE)

LOCATION STATION TO STATION	SIDE	100 mm (m2)	WIDTH (m)	REMARKS
HILLSIDE:				
0+181.67 – 0+210.17	Lt.	54.52	1.8	Excludes 1 wheelchair ramp
0+228.25 – 0+434.01	Lt.	377.26	1.8	Excludes 2 wheelchair ramp
0+451.78 – 0+518.81	Lt.	121.08	1.8	Excludes 2 wheelchair ramp
0+541.74 – 0+598.05	Lt.	101.28	1.8	Excludes 1 wheelchair ramp
18TH STREET NORTH				
4+940.90 – 4+979.41	Rt.	75.43	1.8	
4+940.90 – 4+986.60	Lt.	75.05	1.8	
STADIUM STREET				
4+967.84	Rt.	7.13	1.0	Walk for utility
PROJECT TOTAL		811.75		

SURVEY MONUMENT (INSTALL ONLY)

STATION	SIDE	QUANTITY EACH	REMARKS
0+000.000	0.000 m Rt.	1	SE Cor., NW 1/4, Sec. 10, T27S, R1E
0+402.181	0.000 m Rt.	1	SE Cor., N 1/2, NE 1/4, Sec. 10, T27S, R1E
PROJECT TOTAL		2	

UNDERDRAIN

STATION TO STATION	SIDE	MEDIAN UNDERDRAIN (m)	MEDIAN PIPE UNDERDRAIN (m)	PAVEMENT UNDERDRAIN (m)	REMARKS
0+629.229 – 0+690.969	℄	61.7			
0+274.738 – 0+409.507	Lt.		115.3		Drain to curb inlet
0+409.507 – 0+431.795	Lt.		22.4		
0+456.167 – 0+518.165	Lt.		72.9		Drain to pvmt. underdrain
0+234.081 – 0+408.943	Lt.			175.3	Drain to curb inlet
0+410.744 – 0+436.375	Lt.			33.0	Drain to curb inlet
0+438.215 – 0+513.275	Lt.			81.1	Drain to curb inlet
0+244.690 – 0+355.968	Rt.			118.5	Drain to curb inlet
0+376.300 – 0+434.196	Rt.			57.9	Drain to curb inlet
PROJECT TOTAL		61.7	210.6	465.8	

EARTHWORK

STATION TO STATION	EXCAVATION COMMON (m3)	VMF	*ROCK (m3)	VMF	SELECT SOIL CONT. FURNISHED (m3)	VMF	COMPACTION (TYPE B) (MR-90) (m3)	COMPACTION SELECT SOIL (m3)	TO BE WASTED COMMON † EXCAVATION (m3)	TO BE WASTED ROCK △ EXCAVATION (m3)	SUBGRADE COMPACTION (95%) (m3)	REMARKS
ROADWAY IMPROVEMENTS												
0+181.670 to 0+770.339	3,313	0.8	1,475		2,625	1.0	2,385	2,625	265	1,475	1,224	
PROJECT TOTAL	3,313		1,475		2,625		2,385	2,625	265	1,475	1,224	

* Rock Excavation includes Pavement, Sidewalk and Drive Removal. Paid as "Pavement Removal", "Sidewalk Removal" and "Drive Removal".
† Removal of waste material shall be subsidiary to "Common Excavation"
△ Removal of waste material shall be subsidiary to "Pavement Removal", "Sidewalk Removal", and "Drive Removal".

WHEELCHAIR RAMP

STATION	SIDE	QUANTITY (Each)	REMARKS
0+212.33	Lt.	1	
0+226.18	Lt.	1	
0+436.46	Lt.	1	
0+449.41	Lt.	1	
0+521.05	Lt.	1	
0+538.66	Lt.	1	
PROJECT TOTAL		6	

BRICK PAVERS (60 mm)

STATION	OFFSET (m)	QUANTITY (m2)	REMARKS
0+271.642	1.552 Lt.	4.15	
0+435.084	8.918 Lt.	9.02	
0+450.570	8.761 Lt.	8.84	
0+520.707	1.245 Lt.	10.89	
0+627.904	℄	5.18	
0+692.294	℄	5.18	
PROJECT TOTAL		43.26	

CONCRETE PAVEMENT (AE)

STATION	SIDE	150 mm (AE) (Plain) (m2)	200 mm (Uniform) (AE)(NRDJ) (m2)	REMARKS
MAPLEWOOD:				
4+971.56	Lt.	14.81		Driveway
HILLSIDE:				
0+547.920 to 0+601.353			116.98	Pvmt. Widening
PROJECT TOTAL		14.81	199.17	

REINFORCED CONCRETE VALLEY GUTTER

STATION	SIDE	200 mm UNIFORM (AE) (m2)	REMARKS
PERIMETER ROAD		68.43	Partial replacement of exist. conc. valley gutter
PROJECT TOTAL		68.43	

IRRIGATION SLEEVES (150 mm)(SCH. 40)

STATION	SIDE	QUANTITY (m)	REMARKS
0+259.0	Rt.	9.9	
0+259.5	Rt.	9.9	
0+314.0	Lt.	9.9	
0+314.5	Lt.	9.9	
0+406.5	Rt.	9.9	
0+407.0	Rt.	9.9	
0+406.5	Lt.	9.9	
0+407.0	Lt.	9.9	
0+443.0	Lt.	24.0	
0+443.0	Lt.	24.0	
0+458.5	Rt.	14.8	
0+459.0	Rt.	14.8	
0+458.5	Lt.	9.9	
0+459.0	Lt.	9.9	
0+631.0	Rt.	11.4	
0+631.5	Rt.	11.4	
0+688.8	Rt.	9.9	
0+689.0	Rt.	9.9	
0+688.5	Lt.	11.5	
0+689.0	Lt.	11.5	
PROJECT TOTAL		242.2	

RECAPITULATION OF QUANTITIES

BID ITEM	QUANTITY	UNIT
ROADWAY ITEMS		
FIELD OFFICE AND LABORATORY (TYPE A)	1	EACH
MOBILIZATION	1	L.S.
REMOVAL OF EXISTING STRUCTURES	1	L.S.
EROSION CONTROL (BMP)	1	L.S.
TRAFFIC CONTROL	1	L.S.
CLEARING AND GRUBBING	1	L.S.
PAVEMENT MARKING	1	L.S.
STREET SIGNAGE	1	L.S.
PAVEMENT REMOVAL	6,598	m2
DRIVEWAY REMOVAL	159	m2
SIDEWALK REMOVAL	621	m2
COMMON EXCAVATION	3,313	m3
COMPACTED SUBGRADE (95% ASTM D 698)	1,224	m3
COMPACTION (TYPE B, MR-90)	2,385	m3
SELECT SOIL (CONTRACTOR FURNISHED)	2,625	m3
GEOGRID REINFORCEMENT (FOR BASE)	8,160	m2
CRUSHED ROCK BASE (200 mm)	8,160	m2
COLD MILLING ASPHALT PAVEMENT (50 mm)	2,284	m2
A.C. PAVEMENT (125 mm BASE COURSE)(BM-2, PG 70-28)	6,660	m2
A.C. PAVEMENT (50 mm SURFACE COURSE)(BM-2, PG 70-28)	6,660	m2
A.C. PAVEMENT (50 mm)(OVERLAY)(BM-2, PG 70-28)	3,934	m2
CONCRETE PAVEMENT (200 mm)(UNIF.)(AE)(NRDJ)	117	m2
CONCRETE PAVEMENT (150 mm)(PLAIN)(AE)	15	m2
REINFORCED CONCRETE VALLEY GUTTER (200 mm)	68	m2
CURB AND GUTTER, COMBINED (TYPE I AND II)	859	m
CURB AND GUTTER, COMBINED (TYPE III)	610	m
MONO EDGE CURB	14	m
CLAY BRICK PAVERS (60 mm)	43	m2
SIDEWALK CONSTRUCTION (100 mm)(AE)	812	m2
WHEELCHAIR RAMP	6	EACH
UNDERDRAIN, MEDIAN	62	m
UNDERDRAIN, MEDIAN PIPE (100 mm PVC)	211	m
UNDERDRAIN, PAVEMENT (100 mm PVC)	466	m
STORM SEWER ITEMS		
INLET (CURB)(TYPE 1)(1.5 x 1.32 m)	1	EACH
INLET (CURB)(TYPE 1)(3.0 x 2.24 m)	1	EACH
375 mm STORM SEWER (RCP)	30	m
0.55 m2 STORM SEWER (RCPHE)	36	m
FLOWABLE FILL (SWS)	36	m
SANITARY SEWER ITEMS		
MANHOLE, STD.	2	EACH
200 mm SANITARY SEWER PIPE (PVC)	28	m
FLOWABLE FILL (SS)	20	m
MISCELLANEOUS ITEMS		
IRRIGATION SLEEVES (150 mm)(Sch. 40)	242	m
ADJUSTMENT OF VALVE BOXES	6	EACH
ADJUSTMENT OF MANHOLES	1	EACH
SURVEY MONUMENT (INSTALL ONLY)	2	EACH
50 mm PVC CONDUIT (ELECTRIC)	872	m
50 mm RIGID GALVANIZED CONDUIT (TRAFFIC)	618	m
LANDSCAPE ITEMS		
SODDING	1	L.S.
1.8 m CHAIN LINK FENCE	302	m
DRY STACK STONE WALL	207	sq. m face
IRRIGATION SYSTEM	1	L.S.
450 mm DRAIN BASIN	2	EACH
300 mm SWS (SDR 12)	33	m
PANICLED GOLDENRAIN TREE, 2"–2.5" CAL. B–B	3	EACH
THORNLESS HONEYLOCUST, 2"–2.5" CAL. B–B	7	EACH
SHUMARD OAK, 2"–2.5" CAL. B–B	8	EACH
ALLEE' LACEBARK ELM, 3"–3.5" CAL. B–B	37	EACH
AUTUMN BLAZE MAPLE, 2"–2.5" CAL. B–B	13	EACH
AUSTRIAN PINE, 8'–10' B–B	38	EACH
EASTERN REDBUD, 8'–10' CLUMP B–B	14	EACH
FLAME AMUR MAPLE, 8'–10' CLUMP B–B	14	EACH
AUTUMN BRILLIANCE SERVICEBERRY, 8'–10' CLUMP B–B	11	EACH
PRAIRIFIRE CRABAPPLE, 2" CAL. B–B	12	EACH
"CHANTICLEER" CALLERY PEAR, 2" CAL. B–B	12	EACH
SHRUBS	1	L.S.
ORNAMENTAL GRASSES	1	L.S.
PERENNIALS	1	L.S.

FOR SEEDING (SODDING) SUMMARY OF QUANTITIES SEE SHEET NO. 28
FOR PLANTING SUMMARY SEE SHEET NO. 36
FOR PAVEMENT MARKING SUMMARY OF QUANTITIES SEE SHT. NO. 43
FOR SIGNING SUMMARY OF QUANTITIES SEE SHT. NO. 45
FOR TRAFFIC CONTROL SUMMARY OF QUANTITIES SEE SHT. NO. 56

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MKEC ENGINEERING CONSULTANTS
411 N. WEBB ROAD
WICHITA, KS. 67206
316 - 684 - 9600

NORTH HILLSIDE STREET PAVING PLANS
PROJECT NAME

SUMMARY OF QUANTITIES
SHEET TITLE

JRA	DPG	JRA
DESIGN BY:	DRAWN BY:	CHECKED BY:
APRIL 2003	01053	24 / 73
DATE	JOB NO.	SHEET/OF