

	BY	DATE
REFERENCES NOTED		
REFERENCES CHECKED		

CRUSHED ROCK BASE				
STATION TO STATION (INCLUDES ALL SIDE ROADS)	CRUSHED ROCK BASE (m ²) (200 mm)	CRUSHED ROCK BASE (m ²) (100 mm)	GEGRID REINFORCE- MENT (FOR BASE) (m ²)	REMARKS
21St. North				
0+752.68 - 1+720.61	16930.10		16930.10	
0+775.99 Lt.	144.17		144.17	Roosevelt
0+999.89 Lt.	143.32		143.32	Bluff
1+186.21 Lt.	84.12		84.12	Fountain
1+324.79 Rt.	163.05		163.05	WSU
1+327.98 Lt.	148.92		148.92	Belmont
1+502.75 Lt.	139.19		139.19	Crestview
1+596.32 Lt.	119.69		119.69	Crestview
PROJECT TOTAL	17872.56		17872.56 *	

* FOR INFORMATION ONLY

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REMOVAL OF EXISTING STRUCTURES *		
(FOR INFORMATION ONLY)		
STATION	OFFSET	DESCRIPTION
0+864.1	C/L	RCB AND HEADWALLS
0+864.7	7.4 m LT.	CURB INLET
0+864.7	7.6 m RT.	CURB INLET
0+864.7 - 0+892.5	7.4 m LT.	RCP
0+864.7 - 0+891.8	7.6 m RT.	RCP
0+891.8	7.5 m RT.	CURB INLET
0+892.5	7.4 m LT.	CURB INLET
0+891.8 - 0+901.9	7.5 m RT.	RCP
0+892.5 - 0+898.7	7.4 m LT.	RCP
0+898.7	7.4 m LT.	CURB INLET
0+898.7 - 0+901.3	7.4 m LT.	RCP
0+901.3	7.4 m LT.	CURB INLET
0+901.9	7.5 m RT.	CURB INLET
0+901.3 - 0+904.0	7.4 m LT.	RCP
0+901.9 - 0+904.4	7.5 m RT.	RCP
0+904.0	7.4 m LT.	CURB INLET
0+904.0 - 0+915.2	7.4 m LT.	RCP
0+904.4	7.5 m RT.	CURB INLET
0+904.4-0+907.1	7.5 m RT.	RCP
0+907.1	7.5 m RT.	CURB INLET
0+907.1-0+909.8	7.5 m RT.	RCP
0+909.8	7.5 m RT.	CURB INLET
0+909.8-0+917.4	7.5 m RT.	RCP
0+915.2	7.4 m LT.	CURB INLET
0+915.2-0+921.0	7.4 m LT.	RCP
0+917.4	7.5 m RT.	CURB INLET
0+921.0	7.4 m LT.	CURB INLET
1+274.4	13.3 m RT.	YARD LIGHT
1+280.3	13.2 m RT.	YARD LIGHT
1+285.2	14.5 m RT.	YARD LIGHT
1+507.7	10.8 m LT.	YARD LIGHT
1+592.1	12.7 m LT.	YARD LIGHT
1+561.6	7.5 m RT.	CURB INLET
1+561.6-1+565.2	7.5 m RT.	RCP
1+561.9	7.4 m LT.	CURB INLET
1+561.9-1+565.6	7.4 m LT.	RCP
1+565.2	7.5 m RT.	CURB INLET
1+565.2-1+568.4	7.5 m RT.	RCP
1+565.6	7.4 m LT.	CURB INLET
1+565.6-1+568.3	7.4 m LT.	RCP
1+568.3-1+571.8	7.4 m LT.	RCP
1+568.4-1+571.7	7.5 m RT.	RCP
1+568.4	5.4 m RT.	3.5 m 1220 mm RCP
1+568.4	9.3 m RT.	HEADWALL
1+571.7	7.5 m RT.	CURB INLET
1+571.7-1+575.4	7.5 m RT.	RCP
1+571.8	7.4 m LT.	CURB INLET
1+571.8-1+575.0	7.4 m LT.	RCP
1+575.0	7.4 m LT.	CURB INLET
1+575.4	7.5 m RT.	CURB INLET
1+603.4	30.8 m RT.	CONCRETE WEIR
1+603.5	27.7 m RT.	CART PATH BRIDGE

* REMOVAL OF EXISTING STRUCTURES SHALL BE CONSIDERED SUBSIDIARY TO "SITE CLEARING & RESTORATION". 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 "SITE CLEARING & RESTORATION".

CURB & GUTTER, COMBINED (AE)						
LOCATION			TYPE I (m)	TYPE II (m)	MONO (m)	REMARKS
STATION	TO STATION	SIDE				
21st St. North						
0+752.68	– 0+762.73	Lt.	10.05			
0+752.68	– 1+308.23	Rt.	555.55			
0+789.35	– 0+802.89	Lt.	13.54			
0+819.90	– 0+927.50	Lt.	107.60			
0+948.56	– 0+986.61	Lt.	38.06			
1+013.75	– 1+050.70	Lt.	36.95			
1+070.00	– 1+175.32	Lt.	105.32			
1+196.87	– 1+286.78	Lt.	89.91			
1+300.98	– 1+314.36	Lt.	13.38			
1+340.55	– 1+720.61	Rt.	380.06			
1+341.61	– 1+382.77	Lt.	41.16			
1+396.67	– 1+491.79	Lt.	95.12			
1+513.78	– 1+586.17	Lt.	72.39			
1+606.54	– 1+720.61	Lt.	114.07			
0+802.89	– 0+819.90	Lt.		17.01		Private Driveway
0+927.50	– 0+948.56	Lt.		21.06		Private Driveway
1+286.78	– 1+300.98	Lt.		14.20		Private Driveway
1+382.77	– 1+396.67	Lt.		13.90		Private Driveway
0+762.73	– 0+789.35	Lt.			28.20	Roosevelt
0+986.61	– 1+013.75	Lt.			27.74	Bluff Rd.
1+049.21	– 1+071.50	Lt.			19.00	Private Driveway
1+175.32	– 1+196.87	Lt.			17.30	Fountain Rd.
1+308.23	– 1+340.55	Rt.			30.01	Future WSU Driveway
1+314.36	– 1+341.61	Lt.			28.63	Belmont Rd.
1+491.79	– 1+513.78	Lt.			32.21	Crestview Lakes Dr.
1+586.17	– 1+606.54	Lt.			29.37	Crestview Lakes Dr.
TOTAL			1673.16	66.17	212.46	

* MOUNTABLE CURB SHALL BE SUBSIDIARY TO "CURB AND GUTTER, COMBINED (AE)".

CONCRETE PAVEMENT				
STATION	SIDE	200 mm RCVG (m ²)	200 mm REINF. (measured) (m ²)	REMARKS
PAWNEE AVE.				
0+762.73 – 0+789.35	Lt.	135.71		Valley Gutter – Roosevelt
0+802.89 – 0+819.90	Lt.		61.63	Private Driveway
0+927.50 – 0+948.56	Lt.		84.69	Private Driveway
0+986.61 – 1+013.75	Lt.	135.00		Valley Gutter – Bluff Rd.
1+050.70 – 1+070.00	Lt.	93.84		Private Driveway
1+175.32 – 1+196.87	Lt.	78.93		Valley Gutter – Fountain Rd.
1+286.78 – 1+300.98	Lt.		32.80	Private Driveway
1+308.23 – 1+340.55	Rt.	154.05		Valley Gutter – Future WSU Drive
1+314.36 – 1+341.61	Lt.	140.33		Valley Gutter – Belmont Dr.
1+382.77 – 1+396.67	Lt.		31.99	Private Driveway
1+491.79 – 1+513.78	Lt.	129.53		Valley Gutter – Crestview Lakes Dr.
1+586.17 – 1+606.54	Lt.	110.88		Valley Gutter – Crestview Lakes Dr.
PROJECT TOTAL		978.27	211.11	

SIDEWALK CONSTRUCTION (AE)				
LOCATION		100 mm (m ²)	Sidewalk Width (m)	Remarks
STATION TO STATION	SIDE			
21st St. North				
0+752.68 - +0+770.81	Lt.	28.10	1.500	Includes (1) Wheelchair Ramp
0+790.47 - +1+310.60	Rt.	956.46	1.800	Includes (2) Wheelchair Ramps
0+781.71 - +0+807.52	Lt.	39.58	1.500	Includes (1) Wheelchair Ramps
0+815.62 - +0+933.45	Lt.	188.17	1.500	Includes (1) Wheelchair Ramps
0+942.61 - +0+995.34	Lt.	80.13	1.500	Includes (1) Wheelchair Ramps
1+005.27 - +1+055.15	Lt.	76.77	1.500	Includes (1) Wheelchair Ramps
1+065.55 - +1+181.07	Lt.	178.09	1.500	Includes (1) Wheelchair Ramps
1+191.01 - +1+290.98	Lt.	149.96	1.500	Includes (1) Wheelchair Ramp
1+296.78 - +1+309.36	Lt.	18.87	1.500	
1+309.36 - +1+321.70	Lt.	27.38	1.800	Includes (2) Wheelchair Ramps
1+334.51 - +1+386.88	Lt.	94.27	1.800	Includes (1) Wheelchair Ramp
1+392.57 - +1+496.78	Lt.	187.58	1.800	Includes (1) Wheelchair Ramp
1+509.08 - +1+590.23	Lt.	146.07	1.800	Includes (2) Wheelchair Ramps
1+600.00 - +1+606.85	Rt.	11.40	1.800	Golf Cart Path
1+602.40 - +1+720.61	Lt.	212.78	1.800	Includes (1) Wheelchair Ramp
PROJECT TOTAL		2385.54		16 Wheelchair Ramps

ADJUST VALVE BOX/FIRE HYDRANT, MANHOLE AND WATER METER						
STATION	OFFSET (m)	WV (E.A.)	FH (E.A.)	SSMH (E.A.)	SWMH (E.A.)	WM (E.A.)
21ST NORTH						
0+769.9	11.3 Lt.	1				
0+769.9	3.3 Rt.	1				
0+831.6	10.2 Rt.					1
0+833.8	4.3 Rt.	1				
0+835.3	7.9 Rt.			1		
0+944.6	3.0 Rt.	1				
0+972.3	10.7 Rt.				1	
0+979.0	8.8 Rt.	1				
0+983.4	4.3 Rt.	1				
0+996.0	5.6 Rt.	1				
1+001.9	9.1 Rt.	1				1
1+034.8	8.0 Lt.					
1+109.1	4.3 Rt.	1				
1+193.6	9.8 Lt.	1				
1+203.7	8.8 Lt.	1				
1+211.4	9.6 Lt.	1				
1+252.0	5.6 Rt.	1				1
1+381.2	11.1 Lt.					1
1+439.6	9.1 Lt.					
1+481.5	6.5 Rt.	1				
1+519.1	8.8 Lt.	1				
1+549.2	8.7 Lt.	1				
1+575.8	7.1 Lt.	1				
1+577.3	8.8 Lt.	1				
1+578.5	7.1 Lt.	1				
TOTAL		19 *	0 *	1	0	4 *

* RELOCATE/ADJUST FIRE HYDRANT/VALVE/METER
BID AS WATER LINE ADJUSTMENT (L.S.)

SIDEWALK REMOVAL				
LOCATION			100 mm (m ²)	Sidewalk Width (m)
STATION TO STATION	SIDE			
21st St. North				
0+752.68 – 0+771.45	Lt.	23.19	1.219	
0+790.47 – 0+987.73	Rt.	258.84	1.219	
0+780.86 – 0+995.44	Lt.	286.39	1.219	
1+003.40 – 1+287.56	Rt.	339.45	1.219	
1+004.93 – 1+181.28	Lt.	232.00	1.219	
1-190.78 – 1+323.16	Lt.	163.87	1.219	
1+332.70 – 1+497.21	Lt.	210.58	1.219	
1+505.88 – 1+592.48	Lt.	106.79	1.219	
1+601.32 – 1+720.75	Lt.	172.72	1.219	
TOTAL			1828.54	

WATER LINE		
WATER ITEMS (NON-PARTICIPATING)	* QUANTITY	UNIT
WL PIPE 200mm	53	m
DICL SJ PIPE 300mm	13	m
VALVE & VALVE BOX	2	Ea.
RELOCATE FIRE HYDRANT & VALVE	1	Ea.
WATER VALVE BOX ADJUSTED	19	Ea.
WATER METER ADJUSTED	4	Ea.
300mmX200mm MJ TAPPING SLEEVE & VALVE	1	Ea.
DRIVEWAY REMOVAL & REPLACE	10	m
PAVEMENT REMOVAL w/ TEMPORARY PATCH	14	m

* FOR INFORMATION ONLY – BID AS "WATER LINE ADJUSTMENT" LUMP SUM

EARTHWORK				
STATION TO STATION	COMMON EXCAVATION (m ³)	COMPACTION TYPE B (MR-90) (m ³)	BERM GRADING (m ³)	COMMON EXCAVATION WASTED (m ³)
	V.M.F.			
0+752.7 - 1+720.6	7986.5	0.8	629.0	* 2,450.0
PROJECT TOTAL	7986.5		629.0	* 2,450.0

* NOT INCLUDED IN THIS PROJECT

RECAPITULATION OF ROAD QUANTITIES		
BID ITEM	QUANTITY	UNIT
AC PVM.T. 175 mm (125 mm BIT. BASE)	14 933	m ²
REINF. CRUSHED ROCK BASE (200mm)	17 873	m ²
R.C.V.G. PVM.T. (200 mm)	979	m ²
REINF. CONC. DRIVE PVM.T. (200 mm)	212	m ²
COMB. CURB & GUTTER, TYPE I	1674	m ²
COMB. CURB & GUTTER, TYPE II	67	m
MONO. EDGE CURB (FULL)	213	m
SIDEWALK CONSTRUCTION (100mm)	2386	m ²
PAVING BRICK (SIDEWALK)	102	m ²
CONCRETE PAVEMENT (175MM)(REINF.)	153	m ²
WHEELCHAIR RAMP	16	EACH
REMOVAL OF EXIST. STRUCTURES	1	L.S.
EXCAVATION	7990	m ³
COMPACTED FILL (TYPE B)(MR-90)	630	m ³
PAVEMENT REMOVAL	17 610	m ²
750mm STORM SEWER (RCP)	38	m
900mm STORM SEWER (RCP)	14.3	m
1200mm STORM SEWER (RCP)	7	m
0.65 sq.m STORM SEWER (HERCP)	38	m
INLET (CURB) (TYPE 1) (3.05m X 0.92m)	2	EACH
INLET (CURB) (TYPE 1) (3.05m X 1.22m)	4	EACH
INLET (CURB) (TYPE 1) (4.57m X 1.52m)	2	EACH
AREA INLET (1.22m X 1.37m)(SPECIAL)	1	EACH
2.4 m x 0.9 m RCB w/ WINGWALLS & APRON	1	L.S.
CURB CASTING	1	EACH
CONC. COLLAR (.15X1.8X1.8m)	2	EACH
HANDRAIL	9.9	m
SITE CLEARING AND RESTORATION	1	L.S.
EROSION CONTROL (BMP)	1	L.S.
PROJECT SEEDING	1	L.S.
SODDING	2996	m ²
SURVEY MONUMENT (INSTALL ONLY)	1	EACH
STREET SIGNAGE	1	L.S.
PAVEMENT MARKING	1	L.S.
TRAFFIC CONTROL	1	L.S.
TRAFFIC SIGNALIZATION	1	L.S.
PEDESTRIAN CROSSING SIGNALIZED	1	L.S.
TRAINEES (HIGHWAY CONSTRUCTION)(SET)	500	HOUR
MOBILIZATION	1	L.S.
MOBILIZATION (DBE)	1	L.S.
FIELD OFFICE & LAB (TYPE A)	1	L.S.
NON-PARTICIPATING		
RELOCATE /RECONSTRUCT PRIVATE SPRINKLER SYSTEMS	1	L.S.
RESET LIGHT STANDARDS	1	L.S.
WATER LINE ADJUSTMENT	1	L.S.
MANHOLE ADJUSTMENT	1	EACH
2 YEAR MAINTENANCE WARRANTY	1	L.S.

*FOR SUMMARY OF REINFORCED CONCRETE VALLEY GUTTER SEE SHT. 18

*FOR SUMMARY OF STORM SEWER SEE SHT. 27

*FOR SUMMARY OF TEMPORARY SEEDING SEE SHT. 36

*FOR SUMMARY OF SODDING SEE SHT. 37

*FOR SUMMARY OF TRAFFIC SIGNALIZATION SEE SHT. 46

*FOR SUMMARY OF PAVEMENT MARKING SEE SHT. 53

*FOR SUMMARY OF STREET SIGNAGE SEE SHT. 54

SURVEY MONUMENT (INSTALL ONLY)			
STATION	SIDE	QUANTITY EACH	REMARKS
1+000.00	§	1	
PROJECT TOTAL		1	

2					
1					
NO.	DATE	REVISIONS	BY	APP'D	
KANSAS DEPARTMENT OF TRANSPORTATION					
SUMMARY OF QUANTITIES					
PROJ. NO.					
MKEC ENGINEERING CONSULTANTS, INC.					
WICHITA, KANSAS					
DESIGNED BY: DFL		CHECKED BY: JTC			
DRAWN BY: GJR		DATE: JUNE 2001		SHEET 30 OF 78	