FHWA REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS	87 N-0303-01	2003	112	143

RECAPITULATION OF ROAD & PROJECT QUANTITIES

ITEM	QUANTITY TOTAL	UNIT
PAVING BID ITEMS		
FIELD OFFICE & LAB (Type A)	1	Each
MOBILIZATION	1	Lump Sum
MOBILIZATION (DBE)	1	Lump Sum
R/W CLEARING & SITE PREPARATION	1	Lump Sum
SITE RESTORATION (Includes Seeding/Sodding)	1	Lump Sum
REMOVAL OF CONCRETE PAVEMENT	2,031	sq. yd.
REMOVAL OF ASPHALT PAVEMENT	24,075	sq. yd.
REMOVAL OF SIDEWALK, DRIVE, & PARKING LOT (Asphalt & Concrete)	19,802	sq. ft.
REMOVAL OF EXISTING STRUCTIRES	1	Lump Sum
COMMON EXCAVATION	33,112	cu. yd.
COMPACTED FILL (TYPE B) (MR-90)	5,046	cu. yd.
A.C. PAVEMENT (7") (5" BIT. BASE) (BM-2)	40,219	sq. yd.
A.C. PAVEMENT (6") (4" BIT. BASE) (BM-2)	587	sq. yd.
A.C. PAVEMENT (5") (3" Bit. Base) (BM-2) (Hookup)	207	sq. yd.
A.C. PAVEMENT SURFACE COURSE (2") (BM-2)	3,057	sq. yd.
REINFORCED CONCRETE PAVEMENT (9") (Intersection) (Class A) (AE)	2,368	sq. yd.
REINFORCED CONCRETE PAVEMENT (8") (Valley Gutter) (Class A) (AE)	1,335	sq. yd.
REINFORCED CRUSH ROCK BASE (8") (Includes Geogrid Reinf)	44,758	sq. yd.
REINFORCED CRUSH ROCK BASE (7") (Includes Geogrid Reinf)	1,253	sq. yd.
REINFORCED CRUSH ROCK BASE (6") (Includes Geogrid Reinf)	2,355	sq. yd.
CURB AND GUTTER (Combined) (Type I) (6") (AE)	12,564	ft.
MONOLITHIC EDGE CURB (6") (AE)	756	ft.
BARRIER CURB AND GUTTER (2'-10")	342	ft.
SIDEWALK CONCRETE (4")	69,488	sq. ft.
SIDEWALK CONCRETE (6")(REINFORCED)	1,492	sq. ft.
WHEEL CHAIR RAMPS	27	Each
PAVING BRICK (3.13") (Crosswalk, Red, Herringbone Pattern)	3,774	sq. ft.
HANDRAIL	194	ft.
RETAINING WALL (9" Reinforced Concrete)	393	ft.
COLD MILLING (ASPHALT PAVEMENT)	2,876	sq. yd.
MANHOLE ADJUSTMENTS /w new Ring & Cover	24	Each
MONUMENT BOXES	4	Each
DRAINAGE BID ITEMS		
STORM SEWER (7'x6') (RCBC)*	1,704	ft.
STORM SEWER (7'x5') (RCBC)*	1,648	ft.
STORM SEWER (6'x4') (RCBC)*	874	ft.
STORM SEWER (60") (RCP)	505	ft.
STORM SEWER (54") (RCP)	414	ft.
STORM SEWER (48") (RCP)	491	ft.
STORM SEWER (36") (RCP)	88	ft.
STORM SEWER (30") (RCP)	615	ft.
STORM SEWER (24") (RCP) (Includes End Section and Grate)	365	ft.
STORM SEWER (18") (RCP) (Includes End Sections)	144	ft.
STORM SEWER (15") (RCP) (Includes End Sections)	1,383	ft.
INLET (Curb) (Type 1) (Double) (L=11'-4" W=9'-4")	1	Each
INLET (Curb) (Type 1) (Double) (L=11'-4" W=8'-4")	1	Each
INLET (Curb) (Type 1) (Double) (L=11'-4" W=7'-4")	1	Each
INLET (Curb) (Type 1) (Double) (L=11'-4" W=4'-4")	20	Each
INLET (Curb) (Type 1) (Single) (L=6'-4" W=4'-4")	1	Each
INLET (Curb) (Type 2) (Double) (L=6'-4" W=3'-4")	4	Each
INLET (Drop) (Double)	5	Each
REINFORCED CONCRETE MANHOLE (L=6'-6" W=6'-6")	4	Each
REINFORCED CONCRETE MANHOLE (L=5' W=5')	2	Each
REINFORCED CONCRETE SPECIAL SHALLOW MANHOLE	4	Each
MANHOLE STACK (Includes Ring & Cover)	14	Each
OUTFALL STRUCTURE (Includes Gabion Baskets)	1	Lump Sum
HEAVY STONE RIP RAP	23	sq. yd.
LIGHT STONE RIP RAP	37	sq. yd.
DITCH GRADING	800	ft.
TRAFFIC & PROJECT BID ITEMS		
PAVEMENT MARKING	1	Lump Sum
PROJECT SIGNAGE	1	Lump Sum
TRAFFIC SIGNALIZATION HYDRAULIC AND 47TH	1	Lump Sum
TRAFFIC SIGNALIZATION AT MID-BLOCK CROSS WALK	1	Lump Sum
TRAFFIC CONTROL (Construction)	1	Lump Sum
TEMPORARY SIGNALIZATION (2 Locations)	1	Lump Sum
MEASURED QUANTITY BID ITEMS		
REINFORCED CONCRETE PAVEMENT (8") (Drives) (Class A) (AE)	8,993	sq. ft.
REINFORCED CONCRETE PAVEMENT (6") (Drives) (Class A) (AE)	8,681	sq. ft.
REINFORCED CONCRETE PAVEMENT (6") (Parking Area) (Class A) (AE)	2,560	sq. ft.
A.C. PAVEMENT (5") (3" BIT. BASE) (BM-2) (PARKING AREA)	150	sq. ft.
SIDEWALK PROTECTION CURB	220	ft.
NON-STANDARD BID ITEMS		
EROSION CONTROL	1	Lump Sum
NON-PARTICIPATING ITEMS		
PROJECT SIGNAGE (Street Name Signs)(D3 Metro)	1	Lump Sum
TRANSPORTATION OF SALVAGE MATERIAL	1	Lump Sum
SPRINKLER SYSTEM ADJUSTMENTS	1	Lump Sum
WATER VALVE ADJUSTMENTS	1	Lump Sum
FLOWABLE FILL	80	ft.
MANHOLE (Type P) (5' Dia.)	1	Each
8" Cleanout Riser Assembly	1	Each
8" Sanitary Sewer (PVC)	51	ft.
10" Sanitary Sewer (PVC)	68	ft.
SANITARY SEWER ENCASEMENT	84	ft.
WATER SYSTEM IMPROVEMENTS (See Sheet 64)		

* 22% of 7'x6' and 7'x5' RCBC is non-participating. 22% of 244 lf of 6'x4' RCBC is non-participating.

EARTHWORK

STA. to STA.		ROADWAY	EXCAVATION COMMON (Cu. Yd.)	EXCAVATION NOTE	COMPACTION IN FILL (TYPE B) (MR-90) (Cu. Yd.)	COMPACTION IN CUT (TYPE B) (MR-90) (Cu. Yd.)	EXCAVATION WASTED COMMON (Cu. Yd.)	EXCAVATION WASTED ROCK (Cu. Yd.)	EMBANKMENT (Cu. Yd.)	TOPSOIL (Cu. Yd.)	REMARKS
46+71.50	112+45.00	Hydraulic	38,138	*	4,216	–	–	–	–	–	See Cross-Sections.
6+85.00	9+45.00	55th	775	*	10	–	–	–	–	–	See Cross-Sections.
NET TOTALS			38,913	*	5,056						
BID TOTALS			33,112	**	5,056						
SWS TOTALS			12,525	***	–						For Information Only

* Total Excavation = Earth Work Calculated from Existing Surfaces.

** Estimated Excavation = Total Excavation (Existing Surfaces) less Removal of Concrete & Asphalt Pavement (Assumed Pavement Thickness of 8 in.).

*** Earth Displaced by SWS System – From 7' X 6' RCBC to 48" Dia. Pipe at the Kansas Turnpike. For Information Only.

REMOVAL OF EXISTING TREES (FOR INFORMATION ONLY) *

LOCATION	ROADWAY	SIDE	ITEM
S of Drive at 57th Street	Hydraulic	Lt.	Small Tree
N of Drive at 57th Street	Hydraulic	Lt.	13 Small Trees
S of Drive 180' N of 57th Street	Hydraulic	Lt.	8 Small Trees
N of Drive 180' N of 57th Street	Hydraulic	Lt.	5 Small Trees
300' N of 57th Street	Hydraulic	Lt.	6 Small Trees
300' N of 57th Street	Hydraulic	Lt.	Large Tree
300'N of 57th to 400'S of 55th	Hydraulic	Lt.	600' Hedge Row of Small Trees (98±)
S of Drive 450' S of 55th Street	Hydraulic	Rt.	Large Tree
300' S of SW Corner 55th Street	Hydraulic	Lt.	Small Tree
250' S of SW Corner 55th Street	Hydraulic	Lt.	Small Tree
200' S of SW Corner 55th Street	Hydraulic	Lt.	Small Tree
170' S of SW Corner 55th Street	Hydraulic	Lt.	Small Tree
120' S of SW Corner 55th Street	Hydraulic	Lt.	Large Tree
N of NE Corner 55th Street	Hydraulic	Rt.	2 Small Trees
N of NE Corner Lockwood	Hydraulic	Rt.	Small Tree
140' S of SE Corner 53rd Street	Hydraulic	Rt.	Large Tree
65' N of NE Corner 53rd Street	Hydraulic	Rt.	Large Tree
85' S of SE Corner Mona Lane	Hydraulic	Rt.	2 Small Trees
65' S of SE Corner Mona Lane	Hydraulic	Rt.	Large Tree
300' S of SE Corner Idlewild	Hydraulic	Lt.	2 Small Trees
300' S of SE Corner Idlewild	Hydraulic	Lt.	3 Large Trees
85' S of SW Corner Idlewild	Hydraulic	Lt.	Large Tree
60' S of SW Corner Idlewild	Hydraulic	Rt.	Small Tree
S of Buu Quang Temple Drive	Hydraulic	Lt.	Large Tree
N of Buu Quang Temple Drive	Hydraulic	Lt.	Large Tree
N of Buu Quang Temple Drive	Hydraulic	Lt.	5 Small Trees
NW Corner 49th Street	Hydraulic	Lt.	Large Pine Tree
NW Corner 49th Street	Hydraulic	Lt.	Small Tree
S of Yellow Freight Drive	Hydraulic	Lt.	Large Bush
			13 Large Trees and 148 Small Trees

***Tree Removal paid as "R/W Clearing & Site Preparation"**

1. *Removal/Abandonment of Inlets, Manholes, Storm Sewer Pipe, Light Poles, and etc. shall be SUBSIDIARY to "Removal of Existing Structures."*
2. *Abandoning Storm Sewer Pipe using Pipe Plugs shall be SUBSIDIARY to "Removal of Existing Structures."*
3. *The bid item "Project Erosion Control" shall include, but not be limited to, Silt Fences, Inlet Barriers, Erosion Mats, and/or any other 'Best Management Practices' (BMPs) necessary to inhibit downstream sediment laden runoff.*

REMOVAL OF EXISTING STRUCTURES (FOR INFORMATION ONLY)

ITEM	ROADWAY	SIDE	LOCATION
SWS Pipe, 70' of 30" RCP	Hydraulic	Lt.	Sta 47+52.87
SWS Pipe, 17' of 30" CMP	Hydraulic	Lt.	Sta 49+60.82
SWS Pipe, 87' of 30" CMP	Hydraulic	Rt.	Sta. 49+72.96
SWS Pipe, 40' of 18" CMP	Hydraulic	Lt.	Sta 51+60.00
SWS Pipe, 22' of 24" CMP	Hydraulic	Rt.	Sta 58+48.14
SWS Pipe, 41' of 24" HCMP	Hydraulic	Lt.	Sta. 63+14.58
Guard Post	Hydraulic	Lt.	NW Corner 55th
SWS Pipe, 29' of 24" RCP	Hydraulic	Lt.	Sta 69+64.94
SS Manhole	Hydraulic	Lt.	Sta. 69+81.38
SWS Pipe, 51' of 24" CMP	Hydraulic	Lt.	Sta 72+43.90
Sign & Sign Footing	Hydraulic	Lt.	Sta 72+75.00
SWS Pipe, 63' of 30" CMP	Hydraulic	Rt.	Sta. 73+80.60
SWS Pipe, 21' of 8" PVC	Hydraulic	Rt.	Sta. 73+50.60
SWS Pipe, 21' of 10" PVC	Hydraulic	Rt.	Sta. 74+10.60
Guard Post	Hydraulic	Rt.	Sta. 74+10.60
Retaining Wall	Hydraulic	Rt.	Sta. 74+10.60 to Sta. 75+21.00
SWS Pipe, 33' of 24" RCP	Hydraulic	Lt,	Sta 74+86.00
SWS Pipe, 21' of 30" CMP	Hydraulic	Rt.	Sta 75+42.37
SWS Pipe, 21' X 24" CMP	Hydraulic	Rt.	Sta 75+87.34
SWS Pipe, 30' of 24" RCP	Hydraulic	Lt.	Sta 76+0.66
SWS Pipe, 30' of 24" CMP	Hydraulic	Rt.	Sta. 76+75.83
(2) Guard Posts	Hydraulic	Rt.	Sta. 76+75.83
SWS Pipe, 21' of 24" CMP	Hydraulic	Lt.	Sta 77+39.34
SWS Pipe, 29' of 24" CMP	Hydraulic	Rt.	Sta 77+72.73
(4) Guard Posts	Hydraulic	Rt.	Sta 77+72.73
SWS Pipe, 50' of 18" HCMP	Hydraulic	Rt.	Sta. 79+75.83
(5) Guard Posts	Hydraulic	Rt.	Sta. 79+75.83
SWS Pipe, 30' of 24" RCP	Hydraulic	Rt.	Sta 81+12.00
SWS Pipe, 21' of 30" CMP	Hydraulic	Rt.	Sta 82+85.84
SWS Pipe, 19' of 30" CMP	Hydraulic	Rt.	Sta 83+39.58
SWS Pipe, 21' of 18" CMP	Hydraulic	Lt.	Sta 83+65.00
(2) Guard Posts	Hydraulic	Lt.	Sta 83+65.00
SWS Pipe, 21' of 18" CMP	Hydraulic	Rt.	Sta 84+36.80
SWS Pipe, 21' of 30" CMP	Hydraulic	Lt.	Sta 84+41.88
(2) Guard Posts	Hydraulic	Lt.	Sta 84+41.88
SWS Pipe, 21' of 18"HCMP	Hydraulic	Lt.	Sta 85+33.89
SWS Pipe, 21' of 18"HCMP	Hydraulic	Lt.	Sta 86+27.22
SWS Pipe, 51' of 18" HCMP	Hydraulic	Rt.	Sta. 86+33.31
SWS Pipe, 21' of 18" HCMP	Hydraulic	Lt.	Sta 86+39.64
SWS Pipe, 21' of 15" RCP	Hydraulic	Rt.	Sta 87+38.41
(2) Retaining Walls	Hydraulic	Rt.	Sta 87+38.41
SWS Pipe, 21' of 18" CMP	Hydraulic	Lt.	Sta 87+73.11
SWS Pipe, 56' of 18" CMP	Hydraulic	Lt.	Sta. 88+27.81
SS Manhole, 57' of 8" Pipe	Hydraulic	Rt.	Sta. 88+59.37
Signal Pole	Hydraulic	Lt.	Sta. 88+60.00
Guard Post	Hydraulic	Rt.	Sta. 88+65.00
SWS Pipe, 21' of 18"HCMP	Hydraulic	Rt.	Sta. 88+90.56
Traffic Manhole	Hydraulic	Rt.	Sta. 89+43.00
SWS Pipe, 92' of 24"CMP	Hydraulic	Rt.	Sta. 89+63.11
SWS Pipe, 7' of 10"CMP	Hydraulic	Rt.	Sta. 89+63.11
(5) Guard Posts	Hydraulic	Rt.	Sta. 89+63.11
SWS Pipe, 49' of 18"CMP	Hydraulic	Lt.	Sta 89+74.75
Signal Pole	Hydraulic	Lt.	Sta 89+90.00
Signal Pole	Hydraulic	Rt.	Sta 89+94.00
Signal Pole	Hydraulic	Lt.	Sta 91+22.00
SWS Pipe, 41' of 24" CMP	Hydraulic	Rt.	Sta 91+25.61
SWS Pipe, 41' of 24" CMP	Hydraulic	Rt.	Sta 92+73.77
SWS Pipe, 76' of 18" RCP	Hydraulic	Lt.	Sta. 94+49.48
SWS Pipe, 34' of 18" CMP	Hydraulic	Rt.	Sta 95+36.50
SWS Pipe, 39' of 12" HCMP	Hydraulic	Rt.	Sta. 97+44.37
(2) Guard Posts	Hydraulic	Rt.	Sta. 97+44.37
SWS Pipe, 32' of 18" CMP	Hydraulic	Lt.	Sta 97+55.73
SWS Pipe, 32' of 8" CMP	Hydraulic	Lt.	Sta 102+40.00
Guard Post	Hydraulic	Lt.	Sta 102+60.00
SWS Pipe, 41' of 12" RCP	Hydraulic	Rt.	Sta 102+60.00
(2) Guard Posts	Hydraulic	Rt.	Sta 102+60.00
SWS Pipe, 27" X 15" RCP	Hydraulic	Rt.	Sta 104+96.64
SWS Pipe, 72' of 24" RCP	Hydraulic	Lt.	Sta 105+30.14
SWS Pipe, 28' of 15" RCP	Hydraulic	Rt.	Sta 106+8.65
(2) Guard Posts	Hydraulic	Rt.	Sta 106+8.65
SWS Pipe, 38' of 12" RCP	Hydraulic	Rt.	Sta. 107+17.53
(2) Guard Posts	Hydraulic	Rt.	Sta. 107+17.53
SWS Pipe, 39' of 24" CMP	Hydraulic	Lt.	Sta 107+18.43
SWS Pipe, 21' of 18" RCP	Hydraulic	Lt.	Sta 108+73.48
SWS Pipe, 21' of 12" CMP	Hydraulic	Lt.	Sta 109+49.48
SWS Pipe, 14' of 12" CMP	Hydraulic	Lt.	Sta 110+15.05
SWS Pipe, 24' of 12" CMP	Hydraulic	Lt.	Sta 110+72.37
SWS Pipe, 42' of 15" RCP	Hydraulic	Rt.	Sta. 110+82.39

PROJECT NUMBER	SHEET NAME	ENGINEERING DIRECTORY
472-83902	Tablsum2	F:\Eng\Hyd_phs2\Qty

DESIGN	DRAWN	APPROVED	DATE	SCALE	BAUGHMAN NO
JFB	TCA	JFB	Oct 2003	None	99-09-E451

CAPITAL IMPROVEMENT PROJECT

RECAPITULATION OF QUANTITIES

HYDRAULIC AVE PAVING - 55th STREET SOUTH TO 47th STREET SOUTH

BAUGHMAN COMPANY, P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211