

| CURB AND GUTTER |                    |           |                           |                            |                                   |
|-----------------|--------------------|-----------|---------------------------|----------------------------|-----------------------------------|
| LOCATION        | STATION TO STATION | SIDE      | COMB. C&G (TYPE I) (L.F.) | COMB. C&G (TYPE II) (L.F.) | REMARKS                           |
| Dewey St.       | 399+40.00          | 399+76.00 | Lt.                       | 47.44                      | Includes NW Curb Return at Topeka |
| Dewey St.       | 400+32.00          | 400+59.50 | Lt.                       | 26.23                      | Includes NE Curb Return at Topeka |
| Topeka St.      | 490+92.62          | 494+87.58 | Lt.                       | 228.96                     |                                   |
| Topeka St.      | 490+93.07          | 494+87.80 | Rt.                       | 249.54                     |                                   |
| Lewis St.       | 149+48.00          | 149+76.00 | Rt.                       | 39.37                      | Includes SW Curb Return at Topeka |
| Lewis St.       | 149+48.00          | 149+76.00 | Lt.                       | 39.46                      | Includes NW Curb Return at Topeka |
| Lewis St.       | 150+24.00          | 150+52.00 | Rt.                       | 39.46                      | Includes SE Curb Return at Topeka |
| Lewis St.       | 150+24.00          | 150+52.00 | Lt.                       | 39.37                      | Includes NE Curb Return at Topeka |
| Topeka St.      | 495+67.58          | 499+18.22 | Lt.                       | 278.64                     |                                   |
| Topeka St.      | 495+67.80          | 499+12.00 | Rt.                       | 300.20                     |                                   |
| Totals          |                    |           |                           | 1288.67                    | 441.96                            |

| 4" SIDEWALK PAVEMENT (MEASURED QUANTITY) |                    |           |                 |         |
|--|--------------------|-----------|-----------------|---------|
| LOCATION                                 | STATION TO STATION | SIDE      | QUANTITY (S.F.) |         |
| Dewey St.                                | 399+40.00          | 399+60.00 | Lt.             | 120.00  |
| Dewey St.                                | 400+46.00          | 400+59.00 | Lt.             | 78.00   |
| Topeka St.                               | 490+86.60          | 491+12.50 | Lt.             | 155.40  |
| Topeka St.                               | 490+98.79          | 492+67.00 | Rt.             | 1009.26 |
| Topeka St.                               | 491+32.50          | 492+26.00 | Lt.             | 561.00  |
| Topeka St.                               | 492+48.00          | 492+82.00 | Lt.             | 204.00  |
| Topeka St.                               | 492+92.00          | 493+64.50 | Rt.             | 435.00  |
| Topeka St.                               | 493+06.00          | 494+04.00 | Lt.             | 588.00  |
| Topeka St.                               | 494+28.00          | 494+95.59 | Lt.             | 405.54  |
| Topeka St.                               | 494+47.50          | 494+95.79 | Rt.             | 289.74  |
| Lewis St.                                | 149+44.00          | 149+60.00 | Rt.             | 93.72   |
| Lewis St.                                | 149+44.00          | 149+60.00 | Lt.             | 90.81   |
| Lewis St.                                | 150+40.00          | 150+53.00 | Rt.             | 78.02   |
| Lewis St.                                | 150+40.00          | 150+53.00 | Lt.             | 78.02   |
| Topeka St.                               | 495+59.59          | 497+00.00 | Lt.             | 844.71  |
| Topeka St.                               | 495+59.79          | 496+15.00 | Rt.             | 331.26  |
| Topeka St.                               | 496+35.00          | 497+55.00 | Rt.             | 720.00  |
| Topeka St.                               | 497+36.00          | 497+48.00 | Lt.             | 186.00  |
| Topeka St.                               | 497+80.00          | 499+12.00 | Rt.             | 792.00  |
| Topeka St.                               | 497+84.00          | 498+02.00 | Lt.             | 217.50  |
| Topeka St.                               | 498+38.00          | 499+18.00 | Lt.             | 1115.13 |
| Total                                    |                    |           |                 | 8393.11 |

| RECAPITULATION OF QUANTITIES                        |          |      |
|---|----------|------|
| ITEM  | QUANTITY | UNIT |
| <b>LUMP SUM BID ITEMS (707002)</b>                  |          |      |
| Mobilization  | 1        | L.S. |
| Field Office and Lab (Type A)                       | 1        | Each |
| Clearing Right of Way                               | 1        | L.S. |
| Site Restoration                                    | 1        | L.S. |
| Pavement Removed                                    | 6857     | S.Y. |
| Excavation  | 1514     | C.Y. |
| Compacted Fill (95% Density)                        | 1051     | C.Y. |
| Concrete Pavement (9" (Uniform) (AE) (Intersection) | 746      | S.Y. |
| 7" AC Pavement (5" Bit Base) (BM-2, PG 70-28)       | 4174     | S.Y. |
| 6" Reinforced Crushed Rock Base (9" Pavement)       | 819      | S.Y. |
| 8" Reinforced Crushed Rock Base (7" Pavement)       | 4778     | S.Y. |
| Underdrain (Curb Inlets)                            | 96       | L.F. |
| Combined Curb and Gutter (Type I or Type II)        | 1731     | L.F. |
| Paving Brick (Crosswalk)                            | 194      | S.Y. |
| Wheelchair Ramp (with Detectable Warning)           | 7        | Each |
| Curb Inlet (Type I) (L=5'-0", W=3'-0")              | 6        | Each |
| Curb Inlet (Type I) (L=10'-0", W=3'-0")             | 6        | Each |
| Driveway Inlet (Double) (Grated)                    | 1        | Each |
| Inlet Hook-up                                       | 13       | Each |
| Reinforced Concrete Manhole                         | 9        | Each |
| 15" Storm Sewer (RCP)                               | 289      | L.F. |
| 18" Storm Sewer (RCP)                               | 194      | L.F. |
| 24" Storm Sewer (RCP)                               | 701      | L.F. |
| 36" Storm Sewer (RCP)                               | 33       | L.F. |
| Adjustment of Manholes                              | 3        | Each |
| Sand Fill, Flush, and Vibrate                       | 1217     | L.F. |
| Water Valve Box Adjustment                          | 3        | Each |
| Water Meter Box Adjustment                          | 3        | Each |
| Relocate Existing Water Meter                       | 2        | Each |
| Street Signage                                      | 1        | L.S. |
| Pavement Marking                                    | 1        | L.S. |
| Traffic Signal Modification (Topeka & Waterman)     | 1        | L.S. |
| Traffic Control                                     | 1        | L.S. |
| Landscape   | 1        | L.S. |
| Street Lighting                                     | 1        | L.S. |

| SUMMARY OF EARTHWORK QUANTITIES |                    |                   |             |                            |                             |              |       |
|---------------------------------|--------------------|-------------------|-------------|----------------------------|-----------------------------|--------------|-------|
| LOCATION                        | STATION TO STATION | EXCAVATION (C.Y.) | FILL (C.Y.) | FILL (BEHIND CURBS) (C.Y.) | COMPACTION THRU CUTS (C.Y.) | WASTE (C.Y.) |       |
| Topeka St.                      | 490+37             | 499+18            | 1,514       | 87                         | 43                          | 921          | 1,352 |
| Total                           |                    |                   | 1,514       | 87                         | 43                          | 921          | 1,352 |

Note: Fill, Backfill Behind Curbs, and Compaction thru Cuts are all paid for as "Compacted Fill (95%)". Total Amount = 1,051 C.Y.

| STORM SEWER SUMMARY (LINEAL FOOT) |       |       |       |      |                            |
|-----------------------------------|-------|-------|-------|------|----------------------------|
| SWS LINE NO.                      | RCP   |       |       |      | SAND FILL, FLUSH & VIBRATE |
|                                   | 15"   | 18"   | 24"   | 36"  |                            |
| 100                               |       |       | 465.5 |      | 465.5                      |
| 101                               | 36.0  |       |       |      | 36.0                       |
| 102                               | 57.3  |       |       |      | 57.3                       |
| 103                               | 50.6  |       |       |      | 50.6                       |
| 104                               | 51.0  |       |       |      | 51.0                       |
| 200                               | 43.0  | 143.1 | 235.0 | 33.0 | 454.1                      |
| 201                               | 51.0  |       |       |      | 51.0                       |
| 202                               |       | 51.0  |       |      | 51.0                       |
| Totals                            | 288.9 | 194.1 | 700.5 | 33.0 | 1216.5                     |

| MANHOLE SUMMARY (EACH) |                      |       |          |  |
|------------------------|----------------------|-------|----------|--|
| SWS LINE NO.           | REINF. CONC. MANHOLE |       |          |  |
|                        | LENGTH               | WIDTH | QUANTITY |  |
| 100                    | 4                    | 4     | 6        |  |
| 200                    | 6                    | 6     | 3        |  |
| Total                  |                      |       | 9        |  |

| WHEELCHAIR RAMPS |           |      |                 |
|------------------|-----------|------|-----------------|
| LOCATION         | STATION   | SIDE | QUANTITY (EACH) |
| Topeka St.       | 490+86.60 | Lt.  | 1               |
| Topeka St.       | 490+89.61 | Lt.  | 1               |
| Topeka St.       | 490+98.79 | Rt.  | 1               |
| Topeka St.       | 494+95.59 | Lt.  | 1               |
| Topeka St.       | 494+95.79 | Rt.  | 1               |
| Topeka St.       | 495+59.59 | Lt.  | 1               |
| Topeka St.       | 495+59.79 | Rt.  | 1               |
| Total            |           |      | 7               |

| PAVING BRICK (CROSSWALK)  |           |                 |
|---------------------------|-----------|-----------------|
| LOCATION                  | STATION   | QUANTITY (S.Y.) |
| Topeka/Lewis Intersection | 495+27.69 | 193.60          |
| Total                     |           | 193.60          |

| REINFORCED CRUSHED ROCK BASE |                    |                         |                         |        |
|------------------------------|--------------------|-------------------------|-------------------------|--------|
| LOCATION                     | STATION TO STATION | 8" RCRB QUANTITY (S.Y.) | 6" RCRB QUANTITY (S.Y.) |        |
| Topeka St.                   | 494+80.69          | 495+74.69               |                         | 818.53 |
| Topeka St.                   | 490+37.00          | 494+80.69               | 2832.11                 |        |
| Topeka St.                   | 495+74.69          | 499+18.00               | 1945.41                 |        |
| Totals                       |                    | 4777.52                 | 818.53                  |        |

| INLET SUMMARY (EACH) |                   |                   |                       |                   |
|----------------------|-------------------|-------------------|-----------------------|-------------------|
| SWS LINE NO.         | CURB INLET TYPE I | CURB INLET TYPE I | DRIVEWAY INLET DOUBLE | UNDERDRAIN (L.F.) |
|                      | L=5'-0"           | L=10'-0"          | L=7'-11"              |                   |
| 101                  | 1                 |                   |                       | 6                 |
| 102                  |                   | 2                 |                       | 24                |
| 103                  | 1                 |                   | 1                     | 6                 |
| 104                  |                   | 2                 |                       | 12                |
| 200                  | 2                 |                   |                       | 12                |
| 201                  | 2                 |                   |                       | 12                |
| 202                  |                   | 2                 |                       | 24                |
| Totals               | 6                 | 6                 | 1                     | 96                |

| PAVEMENT REMOVAL |                    |                 |         |
|------------------|--------------------|-----------------|---------|
| LOCATION         | STATION TO STATION | QUANTITY (S.Y.) |         |
| Topeka St.       | 490+37.00          | 499+18.00       | 6857.44 |
| Total            |                    | 6857.44         |         |

| 7" A.C. PAVEMENT (5" BIT BASE) (BM-2, PG 70-28) |                    |                 |         |
|---|--------------------|-----------------|---------|
| LOCATION  | STATION TO STATION | QUANTITY (S.Y.) |         |
| Topeka St.                                      | 490+37.00          | 494+80.69       | 2495.75 |
| Topeka St.                                      | 495+74.69          | 499+18.00       | 1678.39 |
| Total   |                    | 4174.14         |         |

| ADJUSTMENT OF MANHOLES |         |         |                |              |                 |
|------------------------|---------|---------|----------------|--------------|-----------------|
| ROADWAY                | STATION | SIDE    | FROM ELEVATION | TO ELEVATION | QUANTITY (EACH) |
| Topeka St.             | 492+22  | 15' Rt. | 1294.70        | 1294.56      | 1               |
| Topeka St.             | 495+58  | 16' Rt. | 1295.78        | 1295.91      | 1               |
| Topeka St.             | 499+11  | 18' Rt. | 1296.08        | 1296.11      | 1               |
| Total                  |         |         |                |              | 3               |

| RELOCATE EXISTING WATER METER (EACH) |         |         |          |  |
|--------------------------------------|---------|---------|----------|--|
| ROADWAY                              | STATION | SIDE    | QUANTITY |  |
| Topeka St.                           | 491+45  | 30' Rt. | 1        |  |
| Topeka St.                           | 491+47  | 31' Rt. | 1        |  |
| Total                                |         |         | 2        |  |

| CONCRETE PAVEMENT (9") (UNIFORM) |                    |                 |        |
|----------------------------------|--------------------|-----------------|--------|
| LOCATION                         | STATION TO STATION | QUANTITY (S.Y.) |        |
| Lewis Intersection               | 494+80.69          | 495+74.69       | 745.72 |
| Total                            |                    | 745.72          |        |

| DRIVE ENTRANCES (MEASURED QUANTITY) |           |      |         |                                  |
|-------------------------------------|-----------|------|---------|----------------------------------|
| LOCATION                            | STATION   | SIDE | W (FT.) | CONC. PVMT. (8") (REINF.) (S.Y.) |
| Topeka St.                          | 491+22.50 | Lt.  | 20      | 38.75                            |
| Topeka St.                          | 492+37.00 | Lt.  | 22      | 42.19                            |
| Topeka St.                          | 492+79.50 | Rt.  | 25      | 39.95                            |
| Topeka St.                          | 492+94.00 | Lt.  | 24      | 45.64                            |
| Topeka St.                          | 494+06.00 | Rt.  | 83      | 147.25                           |
| Topeka St.                          | 494+16.00 | Lt.  | 24      | 45.64                            |
| Topeka St.                          | 496+25.00 | Rt.  | 20      | 38.75                            |
| Topeka St.                          | 497+18.00 | Lt.  | 26      | 64.00                            |
| Topeka St.                          | 497+66.00 | Lt.  | 26      | 64.00                            |
| Topeka St.                          | 497+67.50 | Rt.  | 25      | 47.36                            |
| Topeka St.                          | 498+20.00 | Lt.  | 26      | 64.00                            |
| Total                               |           |      |         | 637.53                           |

| WATER VALVE BOX ADJUSTMENTS |         |         |                |              |                 |
|-----------------------------|---------|---------|----------------|--------------|-----------------|
| ROADWAY                     | STATION | SIDE    | FROM ELEVATION | TO ELEVATION | QUANTITY (EACH) |
| Topeka St.                  | 492+65  | 34' Lt. | 1295.43        | 1295.57      | 1               |
| Topeka St.                  | 494+86  | 33' Lt. | 1296.12        | 1296.19      | 1               |
| Topeka St.                  | 495+60  | 31' Lt. | 1296.09        | 1296.00      | 1               |
| Total                       |         |         |                |              | 3               |

| WATER METER BOX ADJUSTMENTS |         |         |                |              |                 |
|-----------------------------|---------|---------|----------------|--------------|-----------------|
| ROADWAY                     | STATION | SIDE    | FROM ELEVATION | TO ELEVATION | QUANTITY (EACH) |
| Topeka St.                  | 491+85  | 33' Lt. | 1295.64        | 1295.45      | 1               |
| Topeka St.                  | 493+04  | 30' Rt. | 1295.54        | 1295.36      | 1               |
| Topeka St.                  | 498+70  | 28' Lt. | 1296.56        | 1296.40      | 1               |
| Total                       |         |         |                |              | 3               |

| MEASURED QUANTITY BID ITEMS (707002)             |      |      |
|--|------|------|
| Concrete Pavement (8" (Reinf.) (Drive Entrances) | 638  | S.Y. |
| 6" AC Temporary Pavement (4" Bit. Base)          | 150  | S.Y. |
| Sidewalk Concrete Pavement (4")                  | 8393 | S.F. |
| Inlet Protection                                 | 11   | Each |
| Silt Fence                                       | 1750 | L.F. |
| Protection Curb (6") (AE)                        | 100  | L.F. |

  

| LUMP SUM BID ITEMS (636210) - WATERLINE            |     |      |
|--|-----|------|
| 8" Pipe  | 105 | L.F. |
| 6" DICL SJ Pipe                                    | 12  | L.F. |
| 8" DICL SJ Pipe                                    | 20  | L.F. |
| 6" Anchored Valve Assembly                         | 2   | Each |
| 8" Anchored Valve Assembly                         | 3   | Each |
| Remove and Replace Asphalt Pavement                | 12  | L.F. |
| Remove and Replace Brick                           | 5   | L.F. |
| Remove Pavement and Replace with Temporary Asphalt | 110 | L.F. |

See Sh. No. R34 for Traffic Signal Bill of Materials.  
 See Sh. No. R36 for Summary of Pavement Markings.  
 See Sh. No. R38 for Sign Assembly Tables.  
 See Sh. No. R42 for List of Traffic Control Devices.  
 See Sh. No. E2 for Summary of Electric Lighting System Quantities.  
 See Sh. No. L1 for Summary of Landscape Quantities.

|   |     |         |                 |
|---|-----|---------|-----------------|
| Revision  |     | By      | Date            |
| TOPEKA STREET   |     |         |                 |
| <b>SUMMARY &amp; RECAPITULATION OF QUANTITIES</b>   |     |         |                 |
| JAMES L. ARMOUR, P.E. - CITY ENGINEER<br>CITY OF WICHITA PROJECT NO. 472-84745  |     |         |                 |
| <b>Professional Engineering Consultants, P.A.</b><br>303 S. TOPEKA • WICHITA, KANSAS 67202<br>316-262-2691 • FAX 316-262-3003 |     |         |                 |
| Designed by   | JPS | Job No. | 08457           |
| Drawn by  | SVB | Date    | Feb., 2009      |
|   |     |         | Sht. R28 of R52 |