

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0660-01	2019	108	198



STREET IMPROVEMENTS FOR
MT. VERNON IMPROVEMENTS
BROADWAY TO SOUTHEAST BLVD.

J:\CIVIL\BROADWAY\TERRA\BROADWAY.DWG
 PLOTTED: Friday, August 23, 2019 @ 08:18PM

WATER POINTS				
Point #	Station/Offset	Northing	Easting	Desc.
4000	49+67.88/24.05' LT.	1675281.052	1649940.457	45' BEND
4001	49+74.83/18.85' LT.	1675276.006	1649947.524	45' BEND
4002	50+08.28/18.91' LT.	1675276.803	1649980.961	12"x12" TEE
4003	50+08.07/20.95' RT.	1675236.951	1649981.632	11.25' BEND
4004	50+08.42/40.14' LT.	1675298.029	1649980.637	FH
4005	50+08.45/45.14' LT.	1675303.028	1649980.556	8"x6" TEE
4006	50+18.17/45.08' LT.	1675303.184	1649990.279	90' BEND
4007	53+85.20/12.83' RT.	1675253.349	1650358.484	45' VERT. BEND
4008	53+85.17/3.35' RT.	1675262.825	1650358.248	45' VERT. BEND
4009	53+85.13/9.84' LT.	1675276.017	1650357.919	45' VERT. BEND
4010	53+85.10/19.43' LT.	1675285.603	1650357.679	45' VERT. BEND
4011	57+64.07/40.06' RT.	1675234.455	1650737.870	11.25' VERT. BEND
4012	57+64.29/5.00' RT.	1675269.508	1650737.311	11.25' VERT. BEND
4013	57+64.40/14.31' LT.	1675288.819	1650737.003	45' VERT. BEND
4014	57+64.45/21.86' LT.	1675296.368	1650736.883	45' VERT. BEND
4015	61+52.00/59.28' RT.	1675223.762	1651126.121	45' BEND
4016	61+56.13/55.14' RT.	1675227.988	1651130.165	FH
4017	61+60.27/51.00' RT.	1675232.218	1651134.213	45' BEND
4018	61+60.57/30.23' RT.	1675252.987	1651134.050	45' VERT. BEND
4019	61+60.59/28.26' RT.	1675254.955	1651134.034	45' VERT. BEND
4020	61+60.91/6.00' RT.	1675277.225	1651133.859	45' VERT. BEND
4021	61+60.96/1.99' RT.	1675281.226	1651133.827	45' VERT. BEND
4022	61+61.36/25.84' LT.	1675309.060	1651133.608	8"x8" TEE
4023	61+62.81/128.87' LT.	1675412.102	1651132.797	45' VERT. BEND
4024	61+62.85/132.05' LT.	1675415.278	1651132.772	45' VERT. BEND
4025	61+63.31/164.64' LT.	1675447.869	1651132.516	22.5' BEND
4026	61+52.39/187.14' LT.	1675470.127	1651121.097	22.5' BEND
4027	63+20.88/23.31' LT.	1675310.035	1651293.150	45' BEND
4028	63+26.57/29.00' LT.	1675315.848	1651298.711	45' BEND
4029	63+42.56/29.00' LT.	1675316.200	1651314.701	45' BEND
4030	63+48.35/23.21' LT.	1675310.539	1651320.618	45' BEND
4031	63+73.53/23.75' LT.	1675311.635	1651345.777	45' BEND
4032	63+78.78/29.00' LT.	1675316.995	1651350.905	45' BEND
4033	63+89.78/29.00' LT.	1675317.237	1651361.903	45' BEND
4034	63+94.57/24.20' LT.	1675312.551	1651366.800	45' BEND
4035	67+63.56/25.56' LT.	1675322.012	1651735.672	45' BEND
4036	67+67.00/29.00' LT.	1675325.531	1651739.039	45' BEND
4037	67+83.00/29.00' LT.	1675325.882	1651755.028	45' BEND
4038	67+86.61/25.39' LT.	1675322.348	1651758.723	45' BEND
4039	69+18.23/59.29' RT.	1675240.582	1651892.172	CONNECT TO EXIST.
4040	69+19.24/16.85' RT.	1675283.032	1651892.242	45' VERT. BEND
4041	69+19.40/9.76' RT.	1675290.122	1651892.254	45' VERT. BEND
4042	69+19.93/12.55' LT.	1675312.442	1651892.291	45' VERT. BEND
4043	69+20.04/17.34' LT.	1675317.232	1651892.299	45' VERT. BEND
4044	69+20.22/24.90' LT.	1675324.794	1651892.311	8"x8" CROSS
4045	69+20.50/36.68' LT.	1675336.577	1651892.331	FH
4046	69+20.83/50.46' LT.	1675350.362	1651892.353	45' VERT. BEND
4047	69+20.89/53.00' LT.	1675352.901	1651892.358	45' VERT. BEND
4048	69+02.68/24.92' LT.	1675324.428	1651874.769	11.25' BEND
4049	69+10.75/24.91' LT.	1675324.595	1651882.837	11.25' VERT. BEND
4050	69+22.74/24.89' LT.	1675324.842	1651894.824	45' VERT. BEND

WATER POINTS				
Point #	Station/Offset	Northing	Easting	Desc.
4051	69+57.70/23.30' LT.	1675324.019	1651929.818	45' BEND
4052	69+63.40/29.00' LT.	1675329.838	1651935.385	45' BEND
4053	69+74.40/29.00' LT.	1675330.079	1651946.382	45' BEND
4054	69+80.09/23.31' LT.	1675324.519	1651952.194	45' BEND
4055	72+44.49/24.24' LT.	1675331.254	1652216.516	45' BEND
4056	72+49.50/29.25' LT.	1675336.373	1652221.414	45' BEND
4057	72+60.50/29.25' LT.	1675336.614	1652232.411	45' BEND
4058	72+65.44/24.31' LT.	1675331.788	1652237.454	45' BEND
4059	72+74.88/22.18' RT.	1675285.511	1652247.917	45' VERT. BEND
4060	72+74.86/19.19' RT.	1675288.500	1652247.827	45' VERT. BEND
4061	72+74.72/1.72' RT.	1675305.972	1652247.303	45' VERT. BEND
4062	72+74.69/1.33' LT.	1675309.019	1652247.211	45' VERT. BEND
4063	73+20.11/28.63' RT.	1675280.071	1652293.288	EXIST. 8" TEE
4064	73+21.13/24.47' LT.	1675333.179	1652293.119	8"x8" TEE
4065	73+21.36/36.47' LT.	1675345.179	1652293.081	FH
4066	73+22.11/76.19' LT.	1675384.904	1652292.954	CONNECT TO EXIST.
4067	76+47.38/57.41' RT.	1675258.593	1652621.114	90' BEND
4068	76+39.25/57.34' RT.	1675258.477	1652612.989	8"x6" TEE
4069	76+39.21/62.34' RT.	1675253.477	1652613.061	PLUG
4070	76+39.51/25.39' RT.	1675290.431	1652612.532	8" TEE
4071	76+45.81/10.50' RT.	1675305.456	1652618.505	22.5' VERT. BEND
4072	76+52.76/5.89' LT.	1675322.001	1652625.083	22.5' BEND
4073	76+53.22/53.84' LT.	1675369.947	1652624.480	FH
4074	76+53.25/56.34' LT.	1675372.446	1652624.449	8"x6" TEE
4075	76+71.92/56.16' LT.	1675372.681	1652643.116	90' BEND
4076	76+53.30/61.34' LT.	1675377.446	1652624.386	PLUG
4077	80+06.85/56.08' RT.	1675267.939	1652980.465	90' BEND
4078	79+98.98/56.02' RT.	1675267.827	1652972.603	8"x4" TEE
4079	79+98.94/61.02' RT.	1675262.827	1652972.674	PLUG
4080	79+99.28/19.00' RT.	1675304.841	1652972.073	45' BEND
4081	80+07.92/10.50' RT.	1675313.532	1652980.518	11.25' & 22.5' VERT. BEND
4082	80+16.39/2.16' RT.	1675322.060	1652988.806	45' BEND
4083	80+16.96/56.40' LT.	1675380.616	1652988.070	8"x4" TEE
4084	80+12.51/56.43' LT.	1675380.552	1652983.618	90' BEND
4085	80+17.01/61.40' LT.	1675385.616	1652988.007	PLUG
4086	83+26.81/40.85' RT.	1675290.299	1653300.012	90' BEND
4087	83+24.53/40.84' RT.	1675290.261	1653297.732	90' BEND
4088	83+24.64/20.84' RT.	1675310.258	1653297.397	45' BEND
4089	83+35.10/10.50' RT.	1675320.829	1653307.619	22.5' VERT. BEND
4090	83+62.57/16.67' LT.	1675348.609	1653334.483	45' BEND
4091	83+62.89/48.67' LT.	1675380.606	1653334.080	90' BEND
4092	83+67.89/48.62' LT.	1675380.669	1653339.089	90' BEND
4093	83+42.07/22.00' RT.	1675309.487	1653314.843	45' VERT. BEND
4094	83+42.16/14.81' RT.	1675316.677	1653314.773	45' BEND
4095	83+58.45/1.16' LT.	1675333.004	1653330.702	45' VERT. BEND
4096	83+59.22/1.91' LT.	1675333.777	1653331.456	45' VERT. BEND
4097	83+67.22/9.75' LT.	1675341.793	1653339.277	45' VERT. BEND
4098	83+73.06/15.49' LT.	1675347.656	1653344.997	45' VERT. BEND
4099	83+89.29/31.39' LT.	1675363.918	1653360.863	45' VERT. BEND
4100	83+89.45/49.04' LT.	1675381.563	1653360.627	FH
4101	83+89.52/54.04' LT.	1675386.563	1653360.583	CONNECT TO EXIST.

WATER POINTS				
Point #	Station/Offset	Northing	Easting	Desc.
4102	86+51.37/40.89' RT.	1675297.499	1653624.494	90' BEND
4103	86+48.59/40.87' RT.	1675297.460	1653621.708	8"x4" TEE
4104	86+48.57/43.34' RT.	1675294.986	1653621.744	PLUG
4105	86+48.71/25.87' RT.	1675312.457	1653621.494	45' BEND
4106	86+64.25/10.50' RT.	1675328.169	1653636.687	45' VERT. BEND
4107	86+81.24/6.30' LT.	1675345.345	1653653.297	22.5' VERT. BEND
4108	86+94.60/19.52' LT.	1675358.859	1653666.365	45' BEND
4109	86+94.80/39.52' LT.	1675378.857	1653666.113	8"x4" TEE
4110	86+92.57/39.54' LT.	1675378.829	1653663.884	90' BEND
4111	86+94.82/41.85' LT.	1675381.187	1653666.084	PLUG
4112	89+76.77/99.62' RT.	1675246.046	1653951.122	90' BEND
4113	89+73.86/99.59' RT.	1675246.004	1653948.205	90' BEND
4114	89+74.88/28.01' LT.	1675373.602	1653946.379	90' BEND
4115	89+87.73/27.91' LT.	1675373.786	1653959.234	FH
4116	90+44.87/27.45' LT.	1675374.604	1654016.368	22.5' BEND & CASING
4117	91+37.32/65.55' LT.	1675414.751	1654107.944	CASING PIPE
4118	92+37.73/106.93' LT.	1675458.355	1654207.410	90' BEND
4119	91+88.52/234.79' LT.	1675585.090	1654155.360	22.5' BEND
4120	91+79.14/7.28' LT.	1675357.430	1654151.054	45' BEND
4121	91+89.65/3.10' LT.	1675353.486	1654161.658	45' BEND
4122	91+99.11/18.83' RT.	1675331.774	1654171.599	45' BEND
4123	91+94.93/29.34' RT.	1675321.170	1654167.655	45' BEND
4124	50+08.51/55.14' LT.	1675313.027	1649980.396	PLUG

PROJECT SURVEY CONTROL:

The Project Horizontal Datum is based on Kansas State Plane Coordinate System using City of Wichita Network, with a Combined Adjustment Factor (CAF) of 1.000120014. All coordinate and dimensions shown on these plans are modified to Ground values.

The following equations can be used for conversion:
 Ground Coordinates to State Plane Coordinates = Ground x 1/CAF
 State Plane Coordinates to Ground Coordinates = State Plane x CAF

The Vertical Datum used is NAVD88.

BASELINE POINTS				
Point #	Station/Offset	Northing	Easting	Desc.
1000	48+00.00/0.00'	1675253.324	1649773.147	BL
1001	73+03.99/0.00'	1675308.330	1652276.530	BL
1002	94+00.00/0.00'	1675355.076	1654372.022	BL

CONTROL POINTS					
Point #	Station/Offset	Northing	Easting	Elevation	Desc.
2000	90+14.19/109.86' RT.	1675236.639	1653988.758	1288.363	BM 16
2001	49+93.17/19.22' RT.	1675238.350	1649966.690	1289.710	CP
2002	53+85.23/30.28' RT.	1675235.910	1650358.900	1289.830	CP
2003	61+92.37/21.86' RT.	1675262.060	1651165.660	1289.720	CP
2004	69+03.58/33.51' RT.	1675266.030	1651876.960	1289.170	CP
2005	73+41.17/20.82' LT.	1675329.970	1652313.240	1288.740	CP
2006	80+08.96/33.39' LT.	1675357.430	1652980.580	1288.740	CP
2007	86+54.98/33.20' RT.	1675305.270	1653627.930	1288.920	CP
2008	90+41.86/33.87' LT.	1675380.950	1654013.220	1289.480	CP
2009	93+39.19/38.63' RT.	1675315.100	1654312.090	1288.830	CP
2010	47+96.91/18.75' LT.	1675272.005	1649769.651	1288.714	BM 100.81
2011	54+25.95/35.35' RT.	1675231.736	1650399.718	1289.573	BM 101.66
2012	80+38.62/39.73' RT.	1675284.990	1653011.862	1287.899	BM 100.00
2013	58+23.80/21.72' LT.</				