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|--------|--------------|------|-----------|--------------|
| STATE | PROJECT NO. | YEAR | SHEET NO. | TOTAL SHEETS |
| KANSAS | 87 N-0615-01 | 2017 | 38 | 183 |



STREET IMPROVEMENTS FOR
127TH STREET EAST
FROM 13TH STREET NORTH TO 21ST STREET NORTH

| STORM WATER SEWER POINTS | | | | | | |
|--------------------------|----------|------------|------------|------------|---------------|----------|
| Point # | Station | Offset | Northing | Easting | Desc. | SWS Line |
| 5000 | 14+21.10 | 50.00' LT. | 1694981.99 | 1691550.51 | HEADWALL | 1 |
| 5001 | 15+39.43 | 40.00' LT. | 1695100.52 | 1691557.92 | SWS MH | 1 |
| 5002 | 15+39.43 | 36.50' LT. | 1695100.60 | 1691561.42 | RCBC | 1 |
| 5003 | 15+39.43 | 35.50' RT. | 1695102.17 | 1691633.40 | RCBC/HEADWALL | 1 |
| 5004 | 15+39.43 | 27.52' RT. | 1695101.99 | 1691625.42 | SWS MH | 1 |
| 5005 | 15+75.00 | 24.00' RT. | 1695137.48 | 1691621.13 | TYPE 1 INLET | 3 |
| 5006 | 15+75.00 | 24.00' LT. | 1695136.43 | 1691573.14 | TYPE 1 INLET | 2 |
| 5007 | 15+75.00 | 47.33' LT. | 1695135.92 | 1691549.82 | DROP INLET | 4 |
| 5008 | 16+58.69 | 24.00' LT. | 1695220.10 | 1691571.31 | TYPE 1 INLET | 2 |
| 5009 | 16+95.99 | 27.37' LT. | 1695257.32 | 1691567.13 | SWS MH | 2 |
| 5010 | 16+98.02 | 52.89' LT. | 1695258.79 | 1691541.58 | TYPE 1 INLET | 5 |
| 5011 | 17+36.15 | 52.02' LT. | 1695296.93 | 1691541.61 | TYPE 1 INLET | 5 |
| 5012 | 17+64.49 | 32.33' LT. | 1695325.69 | 1691560.67 | DROP INLET | 2 |
| 5013 | 20+25.19 | 24.00' LT. | 1695586.51 | 1691563.32 | TYPE 1 INLET | 2 |
| 5014 | 21+03.10 | 27.50' LT. | 1695664.33 | 1691558.12 | SWS MH | 2 |
| 5015 | 21+00.12 | 53.34' LT. | 1695660.78 | 1691532.35 | TYPE 1 INLET | 6 |
| 5016 | 20+62.03 | 53.47' LT. | 1695622.70 | 1691533.05 | TYPE 1 INLET | 6 |
| 5017 | 21+28.46 | 32.94' LT. | 1695689.56 | 1691552.13 | DROP INLET | 2 |
| 5018 | 23+83.88 | 33.60' RT. | 1695946.38 | 1691613.08 | END SECTION | 7 |
| 5019 | 24+63.97 | 38.55' RT. | 1696026.56 | 1691616.27 | SWS MH | 7 |

| STORM WATER SEWER POINTS | | | | | | |
|--------------------------|----------|------------|------------|------------|--------------|----------|
| Point # | Station | Offset | Northing | Easting | Desc. | SWS Line |
| 5020 | 25+18.00 | 24.50' RT. | 1696080.26 | 1691601.05 | TYPE 1 INLET | 7 |
| 5021 | 25+18.00 | 22.00' LT. | 1696079.25 | 1691554.56 | TYPE 2 INLET | 8 |
| 5022 | 25+24.34 | 22.00' LT. | 1696085.59 | 1691554.42 | TYPE 2 INLET | 8 |
| 5023 | 27+92.13 | 24.00' RT. | 1696354.31 | 1691594.57 | TYPE 1 INLET | 7 |
| 5024 | 28+17.04 | 49.66' RT. | 1696379.78 | 1691619.67 | SWS MH | 9 |
| 5025 | 29+51.98 | 24.00' RT. | 1696514.13 | 1691591.08 | TYPE 1 INLET | 7 |
| 5026 | 29+49.15 | 22.00' LT. | 1696510.30 | 1691545.15 | TYPE 2 INLET | 10 |
| 5027 | 30+97.41 | 24.00' RT. | 1696659.52 | 1691587.91 | TYPE 1 INLET | 7 |
| 5028 | 32+62.91 | 47.98' RT. | 1696825.51 | 1691608.27 | SWS MH | 7 |
| 5029 | 34+17.88 | 41.18' RT. | 1696980.29 | 1691598.10 | SWS MH | 7 |
| 5030 | 34+37.64 | 33.27' RT. | 1696999.88 | 1691589.75 | DROP INLET | 7 |
| 5031 | 34+33.15 | 22.00' LT. | 1696994.18 | 1691534.59 | TYPE 2 INLET | 12 |
| 5032 | 34+11.61 | 92.00' RT. | 1696975.13 | 1691649.04 | TYPE 1 INLET | 11 |
| 5033 | 33+51.61 | 92.00' RT. | 1696915.15 | 1691650.34 | TYPE 1 INLET | 11 |
| 5034 | 36+36.00 | 44.15' RT. | 1697198.43 | 1691596.30 | SWS MH | 7 |
| 5035 | 36+36.00 | 71.89' RT. | 1697199.03 | 1691624.03 | DROP INLET | 14 |
| 5036 | 37+63.13 | 50.06' RT. | 1697325.33 | 1691600.22 | SWS MH | 7 |
| 5037 | 38+43.94 | 51.83' RT. | 1697406.16 | 1691600.78 | SWS MH | 7 |
| 5038 | 39+28.94 | 51.94' RT. | 1697491.15 | 1691599.62 | SWS MH | 7 |
| 5039 | 39+34.00 | 24.00' RT. | 1697495.79 | 1691571.61 | TYPE 1 INLET | 7 |

| STORM WATER SEWER POINTS | | | | | | |
|--------------------------|----------|-------------|------------|------------|--------------|----------|
| Point # | Station | Offset | Northing | Easting | Desc. | SWS Line |
| 5040 | 39+34.00 | 24.00' LT. | 1697495.07 | 1691523.61 | TYPE 1 INLET | 7 |
| 5041 | 39+34.00 | 46.54' LT. | 1697494.73 | 1691501.08 | DROP INLET | 7 |
| 5042 | 40+18.86 | 55.30' RT. | 1697581.11 | 1691601.63 | SWS MH | 15 |
| 5043 | 41+76.84 | 120.03' LT. | 1697736.44 | 1691423.96 | END SECTION | 13 |
| 5044 | 41+86.59 | 120.03' LT. | 1697746.19 | 1691423.81 | END SECTION | 13 |
| 5045 | 41+76.84 | 77.01' RT. | 1697739.39 | 1691620.97 | SWS MH | 13 |
| 5046 | 41+76.84 | 24.00' RT. | 1697738.60 | 1691567.97 | TYPE 1 INLET | 13 |
| 5047 | 41+87.84 | 24.00' RT. | 1697752.09 | 1691567.76 | TYPE 1 INLET | 13 |
| 5048 | 41+76.84 | 24.00' LT. | 1697737.88 | 1691519.97 | TYPE 1 INLET | 13 |
| 5049 | 41+87.84 | 24.00' LT. | 1697751.37 | 1691519.77 | TYPE 1 INLET | 16 |
| 5050 | 43+30.00 | 24.00' LT. | 1697891.02 | 1691517.68 | TYPE 1 INLET | 19 |
| 5051 | 43+30.00 | 43.62' LT. | 1697890.73 | 1691498.06 | DROP INLET | 16 |
| 5052 | 46+27.00 | 24.00' LT. | 1698187.99 | 1691513.22 | TYPE 1 INLET | 21 |
| 5053 | 46+27.00 | 43.86' LT. | 1698187.69 | 1691493.36 | DROP INLET | 20 |
| 5054 | 46+45.20 | 35.00' RT. | 1698207.07 | 1691571.94 | TYPE 1 INLET | 16 |
| 5055 | 48+51.37 | 24.00' LT. | 1698412.33 | 1691509.86 | TYPE 1 INLET | 17 |
| 5056 | 48+71.46 | 24.00' RT. | 1698433.14 | 1691557.55 | TYPE 1 INLET | 16 |
| 5057 | 50+50.00 | 24.00' LT. | 1698610.94 | 1691506.88 | TYPE 1 INLET | 16 |
| 5058 | 55+19.17 | 24.00' LT. | 1699080.06 | 1691499.85 | TYPE 1 INLET | 18 |
| 5059 | 55+19.17 | 24.00' RT. | 1699080.77 | 1691547.85 | TYPE 1 INLET | 16 |

| STORM WATER SEWER POINTS | | | | | | |
|--------------------------|----------|------------|------------|------------|-------------------|----------|
| Point # | Station | Offset | Northing | Easting | Desc. | SWS Line |
| 5060 | 58+32.43 | 27.19' LT. | 1699393.24 | 1691491.97 | TYPE 1 INLET | 16 |
| 5061 | 58+32.39 | 29.19' LT. | 1699393.16 | 1691489.97 | CTR. TYPE 1 INLET | 16 |
| 5062 | 58+32.37 | 24.00' RT. | 1699393.95 | 1691543.15 | TYPE 1 INLET | 1 |
| 5063 | 14+21.36 | 52.99' LT. | 1694982.19 | 1691547.51 | RCBC | 1 |
| 5064 | 14+20.83 | 47.01' LT. | 1694981.80 | 1691553.50 | RCBC | 1 |
| 5065 | 15+34.43 | 43.01' LT. | 1695095.46 | 1691555.02 | RCBC | 1 |
| 5066 | 15+34.43 | 36.99' LT. | 1695095.59 | 1691561.04 | RCBC | |

| BASELINE POINTS | | | | | |
|-----------------|----------|-------------|------------|------------|---------------------------------|
| Point # | Station | Offset | Northing | Easting | Desc. |
| 1000 | 10+56.63 | 0.00' | 1694618.70 | 1691608.45 | BEGIN PROJECT |
| 1001 | 17+17.09 | 0.00' | 1695279.01 | 1691594.03 | INT. BIRCHWOOD DR. |
| 1002 | 17+17.09 | 54.59' LT. | 1695277.82 | 1691539.45 | BIRCHWOOD DR. LIMITS |
| 1003 | 20+81.07 | 0.00' | 1695642.91 | 1691586.09 | INT. EDGEWOOD DR. |
| 1004 | 20+81.07 | 54.63' LT. | 1695641.71 | 1691531.48 | EDGEWOOD DR. LIMITS |
| 1005 | 28+95.98 | 0.00' | 1696457.62 | 1691568.31 | INT. CASTLEWOOD DR. |
| 1006 | 28+95.98 | 54.52' LT. | 1696456.43 | 1691513.80 | CASTLEWOOD DR. LIMITS |
| 1007 | 33+79.93 | 0.00' | 1696941.45 | 1691557.75 | INT. TALLOWOOD DR. |
| 1008 | 33+79.93 | 54.55' LT. | 1696940.26 | 1691503.21 | TALLOWOOD DR. LIMITS |
| 1009 | 33+60.61 | 0.00' | 1696922.14 | 1691558.17 | INT. ROCKY CREEK PKWY. (E.B.) |
| 1010 | 33+51.11 | 125.41' RT. | 1696915.38 | 1691683.76 | PC |
| 1011 | 33+52.20 | 153.97' RT. | 1696917.09 | 1691712.29 | PT |
| 1012 | 33+61.67 | 153.20' RT. | 1696926.54 | 1691711.31 | ROCKY CREEK PKWY. LIMITS (E.B.) |
| 1013 | 34+00.61 | 0.00' | 1696962.13 | 1691557.30 | INT. ROCKY CREEK PKWY. (W.B.) |
| 1014 | 34+00.61 | 141.00' RT. | 1696965.21 | 1691698.26 | ROCKY CREEK PKWY. LIMITS (W.B.) |
| 1015 | 48+00.37 | 0.00' | 1698361.70 | 1691534.62 | INT. 19TH ST. N. |
| 1016 | 48+00.37 | 54.56' LT. | 1698360.88 | 1691480.07 | 19TH ST. N. LIMITS |
| 1017 | 47+82.29 | 0.00' | 1698343.63 | 1691534.89 | INT. REEDS COVE (E.B.) |
| 1018 | 47+82.57 | 100.00' RT. | 1698345.40 | 1691634.88 | REEDS COVE LIMITS (E.B.) |
| 1019 | 48+22.42 | 0.00' | 1698383.75 | 1691534.29 | INT. REEDS COVE (W.B.) |

| BASELINE POINTS | | | | | |
|-----------------|----------|-------------|------------|------------|------------------------------|
| Point # | Station | Offset | Northing | Easting | Desc. |
| 1020 | 48+22.64 | 100.00' RT. | 1698385.47 | 1691634.28 | REEDS COVE LIMITS (W.B.) |
| 1021 | 54+39.63 | 0.00' | 1699000.88 | 1691525.04 | INT. SHADYBROOK ST. (E.B.) |
| 1022 | 54+39.63 | 95.00' LT. | 1698999.46 | 1691430.05 | SHADYBROOK ST. LIMITS (E.B.) |
| 1023 | 54+71.17 | 0.00' | 1699032.43 | 1691524.57 | INT. SHADYBROOK ST. (W.B.) |
| 1024 | 54+80.66 | 68.40' LT. | 1699040.89 | 1691456.03 | PC |
| 1025 | 54+77.79 | 98.23' LT. | 1699037.57 | 1691426.25 | PT |
| 1026 | 54+68.86 | 96.48' LT. | 1699028.66 | 1691428.13 | SHADYBROOK ST. LIMITS (W.B.) |
| 1027 | 57+50.48 | 0.00' | 1699311.70 | 1691520.38 | INT. 127TH CT. E. (E.B.) |
| 1028 | 57+50.20 | 112.83' RT. | 1699313.11 | 1691633.20 | 127TH CT. E. LIMITS (E.B.) |
| 1029 | 57+80.79 | 0.00' | 1699342.01 | 1691519.93 | INT. 127TH CT. E. (W.B.) |
| 1030 | 57+81.79 | 112.63' RT. | 1699344.70 | 1691632.53 | 127TH CT. E. LIMITS (W.B.) |
| 1031 | 62+51.70 | 0.00' | 1699812.87 | 1691512.87 | END PROJECT |

| CONTROL POINTS | | | | | |
|----------------|----------|------------|------------|------------|-------|
| Point # | Station | Offset | Northing | Easting | Desc. |
| 2000 | 11+30.02 | 31.54' RT. | 1694692.77 | 1691638.38 | BM 1 |
| 2001 | 17+34.46 | 54.79' LT. | 1695295.18 | 1691538.88 | BM 2 |
| 2002 | 21+00.69 | 49.86' LT. | 1695661.43 | 1691535.82 | BM 3 |
| 2003 | 29+13.45 | 55.14' LT. | 1696473.88 | 1691512.80 | BM 4 |
| 2004 | 33+79.35 | 52.82' RT. | 1696942.03 | 1691610.56 | BM 5 |
| 2005 | 24+37.95 | 14.16' LT. | 1695999.39 | 1691564.15 | BM 6 |
| 2006 | 48+02.06 | 59.76' RT. | 1698364.29 | 1691594.35 | BM 7 |
| 2007 | 54+56.94 | 60.03' LT. | 1699017.30 | 1691464.76 | BM 8 |
| 2008 | 11+69.76 | 34.15' RT. | 1694732.56 | 1691640.12 | SDMD |
| 2009 | 17+36.13 | 21.98' LT. | 1695297.56 | 1691571.65 | PKNW |
| 2010 | 21+03.93 | 16.40' LT. | 1695665.39 | 1691569.19 | PKNW |
| 2011 | 28+96.07 | 14.34' RT. | 1696458.02 | 1691582.64 | SDMD |
| 2012 | 33+54.08 | 20.93' LT. | 1696915.15 | 1691537.39 | PKNW |
| 2013 | 36+29.76 | 18.35' RT. | 1697191.63 | 1691570.64 | SDMD |
| 2014 | 48+21.56 | 14.23' LT. | 1698382.67 | 1691520.08 | PKNW |
| 2015 | 54+78.73 | 17.27' RT. | 1699040.24 | 1691541.72 | PKNW |
| 2016 | 54+56.36 | 85.82' LT. | 1699016.33 | 1691438.98 | DISC |

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|-----------------------|-----------|
| SWS BUBBLE MAP | |
| PROJECT NO. | 472-85158 |
| DATE | 11/29/17 |
| SCALE | 1"=40' |
| DESIGNED | DRAWN |
| JRA | RAM |
| CHECKED | JRA |
| NO. | REVISION |
| | DATE |
| SHEET NO. | |
| 38 OF 183 | |

J:\PROJECTS\2017\1401040280 - COV_127TH E. 13TH TO 21ST\05-CIVIL\CA\BUBBLE\14280_BUBBLE_MAP_SWS.DWG PLOTTED: Wednesday, November 29, 2017 @ 02:44PM