HAMILTON SOUTHEASTERN UTILITIES, INC.

HORIZONTAL AND VERTICAL CONTROL DATA

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SECTION 1 - INTRODUCTION 1
SECTION 2 - PRIMARY HORIZONTAL CONTROL DATA 2
SECTION 3 - SECONDARY HORIZONTAL CONTROL DATA 10
SECTION 4 - VERTICAL CONTROL DATA 12
SECTION 5 - REVISION HISTORY 17

APPENDIX MONUMENT LOCATION MAP

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SECTION 1 - INTRODUCTION

Primary Control (which points are identified by point numbers with the prefix "G") was run by The Schneider Corporation in February and March 1993 using the Global Positioning System (*Reference The Schneider Corporation Job Number 757.025*). Secondary control points (which points are identified by point numbers with the prefix "C") were computed based on tying primary control points to land surveys by The Schneider Corporation and other firms which showed angles and distances on sections and quarter sections.

Control points which fall on section or quarter section corners referenced by the Hamilton County Surveyor are identified as such herein. A number of control points fall at locations which may be centers of section or quarter-quarter corners, but which corner positions, with regard to the public land system, were not confirmed as a part of this project. Coordinates for these points are included for use in tying into the reference datum, but no statement is hereby made regarding their integrity as aliquot corner locations. It is to be noted that corners identified as section or quarter section corners were so noted based upon information believed to be reliable at the time of this control survey. This designation does not relieve the individual surveyor of the professional responsibility to confirm any corners used in the process of his or her individual surveys.

Dates of recovery for each monument are indicated. Reference ties are available upon request.

The horizontal datum is the Indiana State Plane Coordinate System, East Zone (NAD 1983) prior to any High Accuracy Reference Network ("HARN") adjustment by the National Geodetic Survey ("NGS").

The Combination Factors (scale and elevation) utilized for this work in reducing ground distances to grid distances are 0.99993162 for the westerly portion and 0.99993295 for the easterly portion of the project area. Exact definition of a line of delineation between the easterly and westerly portions of the project area is not necessary. Use of multiple factors is needed only in cases where eastings for control points utilized on a specific project vary by more than about three miles.

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SECTION 2 - PRIMARY HORIZONTAL CONTROL DATA
(Indiana State Plane Coordinate System, East Zone, NAD 1983)

Point #	Northing	Easting	Description
G30	1731591.79	273292.04	Northeast corner of section 20-18N-6E Railroad spike (1993)
G31	1731578.70	271939.77	5/8” rebar with cap (1993)
G32	1731584.46	270634.79	Stone (1993)
G33	1731562.59	269179.17	5/8” rebar with cap (1993)
G34	1731560.64	267970.24	Northwest corner of section 20-18N-6E Railroad spike (1993)
G35	1731539.59	266232.44	5/8” rebar with cap (1993)
G36	1731546.84	265314.71	Railroad spike (1993)
G38	1731528.57	262664.11	Northwest corner of section 19-18N-6E Iron pipe 10” down (1993)
G39	1731401.27	262671.23	Northeast corner of section 24-18N-5E Railroad spike 10” down (1993)
G40	1731405.78	261352.08	Stone with cut “X” (1993)
G41	1731410.16	260025.94	North quarter corner of section 24-18N-5E Railroad spike (1993)
G42	1731407.96	258699.73	Stone with cut “X” (1993)
G43	1731405.97	257374.14	Northwest corner of section 24-18N-5E Pinched pipe (1993)
G44	1730159.92	257366.85	5/8” rebar with cap (1993)
G45	1728743.36	257380.37	West quarter corner of section 24-18N-5E Railroad spike (1993)
G47	1727665.21	255709.20	5/8” rebar with cap (1993)
G48	1727209.13	254437.18	Aluminum monument (1993)
G49	1726050.54	254753.65	Railroad spike (1993)

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G50	1726038.65	253436.32	5/8” rebar with cap (1993)
G51	1726025.95	252119.92	Northeast corner of section 27-18N-5E Brass disk in box (1993)
G52	1726009.46	250795.22	5/8” rebar (1993)
G53	1725992.50	249470.88	Boat spike (1993)
G54	1725971.61	248144.70	Boat spike (1993)
G55	1725942.24	246654.40	5/8” rebar with cap (1993)
G56	1725946.11	245501.36	1/2” rebar (1993)
G57	1725939.32	244179.13	Stone with cut “X” (1993)
G58	1725932.16	242858.39	3/4” rebar (1993)
G59	1724565.01	242856.50	5/8” rebar with cap (1993)
G60	1723267.03	242876.15	Railroad spike (1993)
G61	1723256.86	241563.99	East quarter corner of section 29-18N-5E 5/8” rebar (1993)
G62	1723244.14	240240.90	1/2” rebar (1993)
G63	1723233.38	238920.71	Center of section 29-18N-5E 5/8” rebar (1993)
G64	1723221.41	237601.81	Railroad spike (1993)
G65	1723209.41	236282.91	East quarter corner of section 30-18N-5E Aluminum monument (1993)
G66	1723193.16	234945.26	PK nail (1993)
G67	1723177.05	233614.46	Center of section 30-18N-5E PK nail (1993)
G69	1723141.99	230741.26	West quarter corner of section30-18N-5E Aluminum monument (1993)
G76	1723073.35	230741.05	East quarter corner of section25-18N-4E PK nail found (1.1’ East) (1988)
G77	1725722.24	228111.10	North quarter corner of section 25-18N-4E (1988)

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G79[3]	1717931.48	241576.53	East quarter corner of section 32-18N-5E Stone with cut "X" (1997)
G80	1720500.94	230751.78	Southwest corner of section 30-18N-5E Harrison monument (1993)
G81	1720435.62	230751.88	Southeast corner of section 25-18N-4E Harrison monument (1993)
G82	1720525.56	233617.85	South quarter corner of section 30-18N-5E PK nail (1993)
G83	1720548.66	236288.96	Northwest corner of section 32-18N-5E Harrison monument (1993)
G84	1720559.84	237607.33	1/2" rebar (1993)
G85	1720571.39	238933.39	North quarter corner of section 32-18N-5E Railroad spike (1993)
G86	1720582.75	240255.29	Railroad spike (1993)
G87	1720593.99	241576.61	Northeast corner of section 32-18N-5E Railroad spike (1997)
G88	1720604.51	242891.00	5/8" rebar (1993)
G89	1723277.30	244188.92	Center of section 28-18N-5E PK nail (1993)
G91	1723301.99	246836.94	East quarter corner of section 28-18N-5E Stone with cut "X" (1993)
G92[9]	1726081.56	257386.15	Harrison Monument (2002)
G93	1726090.11	258707.94	Pipe (1993)
G94	1726099.66	260030.73	Railroad spike (1993)
G95	1726110.02	261350.07	3/4" rebar (1993)
G96	1728746.22	258694.35	Stone (1993)
G97	1728749.08	260009.52	1/2" rebar (1993)
G98	1728757.53	261328.73	1/2" rebar (1993)
G99	1728754.81	262638.13	East quarter corner of section 24-18N-5E 1/2" rebar 5" down (1993)
G100	1728893.37	267975.90	West quarter corner of section 20-18N-6E Square head bolt (1993)
G101	1726223.87	267980.04	Harrison monument (1993)
G114	1731382.30	254742.58	North quarter corner of section 23-18N-5E Railroad spike (1993)
G115	1731358.76	252110.70	Center of iron box (1993)

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G117	1728626.19	248139.37	Railroad spike (1993)
G118	1728612.36	246816.54	East quarter corner of section 21-18N-5E 1/2” rebar bent (1993)
G119	1728604.92	245491.75	1/2” rebar (1993)
G120	1728599.89	244166.83	Center of section 21-18N-5E Railroad spike (1993)
G121	1728590.34	242843.74	PK nail (1993)
G123	1725908.05	240221.41	5/8” rebar (1993)
G124	1724578.74	240230.80	1-1/2” iron pipe (1993)
G125	1725874.28	236276.50	Southeast corner of section 19-18N-5E PK nail (1993)
G126	1731208.15	236246.55	Northeast corner of section 19-18N-5E Harrison monument (1993)
G127	1731173.10	233580.29	North quarter corner of section 19-18N-5E Road nail (1993)
G130	1728465.71	230727.48	West quarter corner of section 19-18N-5E 5/8” rebar over stone (1993)
G131	1728505.52	233595.47	Center of section 19-18N-5E PK nail (1993)
G132	1728542.68	236261.81	East quarter corner of section 19-18N-5E Railroad spike (1993)
G133	1728553.16	237605.55	5/8” rebar (1993)
G134	1728563.52	238909.77	Center of section 20-18N-5E 5/8” rebar (1993)
G135	1728571.30	240209.63	Railroad spike (1993)
G136	1728580.64	241520.03	East quarter corner of section 20-18N-5E PK nail (1993)
G137	1731252.89	240202.46	1-1/2” pipe (1993)
G138	1727240.03	240218.09	PK nail (1993)
G139	1727207.30	236270.74	PK nail (1993)
G141	1723081.32	228123.96	Center of section 25-18N-4E Stone (1993)
G142	1720441.86	228135.16	South quarter corner of section 25-18N-4E Harrison monument (1993)
G143	1720450.21	225519.18	Southwest corner of section 25-18N-4E PK nail (1993)

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G144	1717884.31	236291.68	West quarter corner of section 32-18N-5E Brass plug in box (1993)
G148	1717961.32	244212.05	Center of section 33-18N-5E Railroad spike (1993)
G149	1719076.05	236317.95	5/8" rebar (1993)
G150	1720644.83	246850.10	Northwest corner of section 34-18N-5E PK nail (1993)
G151	1720671.00	249500.79	North quarter corner of section 34-18N-5E Harrison monument (1993)
G152	1720684.34	250826.17	PK nail (1993)
G153	1720697.77	252151.39	Southeast corner of section 27-18N-5E Harrison monument (1993)
G154	1719355.43	250827.16	1" iron pipe (1993)
G155	1718025.31	250827.17	5/8" rebar (1993)
G156	1715359.34	250829.71	Brass plug (1993)
G157	1715367.65	252020.67	Northeast corner of section 03-17N-5E PK nail (1993)
G158A[4]	1715354.32	249512.92	South quarter corner of section 34-18N-5E Railroad spike (1993)
G158B[4]	1715350.37	249515.23	South quarter corner of section 34-18N-5E PK nail per Indiana land title survey prepared by Evergreen Planners, Inc. recorded as instrument #9414249 (1994)
G159	1715343.04	248187.87	5/8" rebar (1993)
G160	1715340.55	246869.56	Southwest corner of section 34-18N-5E Harrison monument (1993)
G161	1715338.26	246685.57	Northeast corner of section 04-17N-5E PK nail 4" down (1993)
G162	1715305.43	244220.33	South quarter corner of section 33-18N-5E Harrison monument (1993)
G163	1715302.73	244020.02	North quarter corner of section 04-17N-5E PK nail (1993)
G165[3]	1717908.11	238933.36	Center of section 32-18N-5E PK nail (1988)
G170	1712677.95	236052.36	PK nail (1993)
G171	1709573.28	236026.54	Northwest corner of section 08-17N-5E 5/8" rebar 2" down (1993)
G172	1709569.09	237356.42	Railroad spike (1993)

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G173	1709564.66	238686.29	North quarter corner of section 08-17N-5E Iron pipe with cap (1993)
G174	1709567.13	240000.66	Railroad spike (1993)
G175	1709574.32	241325.24	Southwest corner of section 04-17N-5E Harrison monument 4” down (1993)
G176	1712207.16	241337.69	West quarter corner of section 04-17N-5E Railroad spike (1993)
G177	1709592.23	243990.67	South quarter corner of section 04-17N-5E Stone in box (1993)
G178	1712217.18	244003.13	Center of section 04-17N-5E PK nail in washer (1993)
G179	1713531.90	244009.45	Iron pipe (1993)
G180	1712224.89	245343.55	2” iron pipe (1993)
G181	1709599.40	245330.15	PK nail (1993)
G182	1709605.45	246678.42	Southeast corner of section 04-17N-5E PK nail (1993)
G183	1706967.01	245316.60	PK nail (1993)
G184	1704307.33	241297.73	Southeast corner of section 08-17N-5E Harrison monument (1993)
G185	1704301.09	239968.01	Railroad spike (1993)
G186	1704292.27	238641.87	South quarter corner of section 08-17N-5E Harrison monument 2” down (1993)
G187	1704274.75	235989.89	Southwest corner of section 08-17N-5E Brass plug in box (1993)
G188	1707805.25	236014.40	5/8” rebar (1993)
G189	1705617.87	239976.27	Railroad spike (1993)
G190	1706934.44	239986.15	1” pipe (1993)
G191	1708250.78	239992.83	Railroad spike (1993)
G192	1727755.45	267958.55	5/8” rebar with cap (1993)
G197	1727298.73	248142.09	Railroad spike (1993)
G201[1, 2, 6, 8]	1715408.29	257438.80	Southwest corner of section 36-18N-5E Harrison monument (2001)
G202[1, 2, 9]	1718083.54	257424.35	East quarter corner of section 35-18N-5E Harrison monument (2002)

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G203[1, 2, 9]	1720757.56	257407.53	Northeast corner of section 35-18N-5E Harrison monument (2002)
G205[1, 2]	1720839.67	262707.30	Northeast corner of section 36-18N-5E Per county surveyor (1996)
G206[1, 2, 9]	1723419.51	257396.52	East quarter corner of section 26-18N-5E Harrison monument (2002)
G207[1, 2]	1720791.99	260056.67	North quarter corner of section 36-18N-5E PK nail (1996)
G208[1, 2, 6]	1715451.77	260055.96	North quarter corner of section 01-17N-5E Iron pipe (1996)
G209[1, 2]	1715503.89	262717.03	Southwest corner of section 31-18N-6E Berntsen monument per county surveyor (1996)
G210[1, 2]	1715552.69	268028.27	Northwest corner of section 05-17N-6E Stone per county surveyor (1996)
G213[1, 2]	1723555.88	267990.64	East quarter corner of section 30-18N-6E Railroad spike (1996)
G215[1, 2]	1718192.58	265367.84	Center of section 31-18N-6E PK nail (1996)
G216[1, 2]	1715523.44	265377.86	South quarter corner of section 31-18N-6E Stone (1996)
G217[1, 2]	1712730.04	265281.32	Center of section 06-17N-6E 5/8” rebar (1996)
G218[1, 2]	1720886.69	268003.32	Southwest corner of section 29-18N-6E 1” iron pipe (1996)
G220[8]	1715407.84	257380.21	Northeast corner of section 02-17N-5E Harrison monument (2001)
G222[9]	1715218.03	236294.74	Southwest corner of section 32-18N-5E Harrison Monument (2002)
G223[9]	1715239.76	238938.78	South quarter corner of section 32-18N-5E Boat Spike (2002)
G224[9]	1715237.81	238709.00	North quarter corner of section 05-17N-5E PK nail (2002)
G225[9]	1715212.75	236070.21	Northwest corner of section 05-17N-5E Harrison Monument (2002)
G226[10]	1709708.29	257355.34	Northeast corner of Section 11-17N-5E Pk nail (2003)
G227[10]	1707088.92	257337.77	West quarter corner of Section 12-17N-5E Railroad spike (2003)
G228[10]	1704469.52	257316.37	Southeast corner of Section 11-17N-5E Railroad Spike (2003)
G229[10]	1704429.18	254633.79	South quarter corner of section 11-17N-5E Brass Plug (2003)
G230[10]	1708804.45	262705.37	Railroad spike (2003)
G231[10]	1707473.41	262701.92	West quarter corner of section 7-17N-6E 5/8” rebar with cap (2003)

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G232[10,12]	1704769.52	262694.08	Southwest corner of Section 7-17N-6E Mag nail (2003)
G233[10]	1710098.07	265241.88	South quarter corner of Section 6-17N-6E Cotton gin spindle (2003)
G234[10]	1710122.63	267894.45	Southeast corner of Section 6-17N-6E Pk nail (2003)
G235[10]	1707468.24	267921.78	West quarter corner of Section 8-17N-6E Pk nail (2003)
G236[10]	1704811.42	267947.55	Southwest corner of Section 8-17N-6E Brass plug (2003)
G237[10]	1704790.96	265294.72	South quarter corner of Section 7-17N-6E Harrison monument (2003)
G508[4]	1709659.12	230760.51	Northwest corner of section 07-17N-5E Railroad spike (1997)

Note: The horizontal values indicated above are per GPS by The Schneider Corporation. Horizontal values are in U.S. Survey feet referenced to the Indiana State Plane Coordinate System, East Zone (NAD 1983).

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SECTION 3 - SECONDARY HORIZONTAL CONTROL DATA
(Indiana State Plane Coordinate System, East Zone, NAD 1983)

Note: The coordinates provided as secondary control points are for reference only. These coordinates were established by calculation of various boundary surveys which had two or more common corners with the primary control monuments referenced herein. These coordinates are NOT based on the field survey performed for the primary control.

Point #	Northing	Easting	Description
C10	1731259.09	246796.73	Northwest corner of section 22-18N-5E Berntsen monument in casting
C24	1712263.85	249341.69	Center of section 03-17N-5E Stone with cut "X" (1989)
C28	1709623.61	249348.67	South quarter corner of section 03-17N-5E Railroad spike over stone (1989)
C36	1707000.91	249324.96	Center of section 10-17N-5E Railroad spike (1989)
C50	1706922.26	236008.35	West quarter corner of section 08-17N-5E Stone with cut "X" (1992)
C51	1706924.63	238666.90	Center of section 08-17N-5E Stone with cut "X" (1990)
C52	1706939.95	241308.04	East quarter corner of section 08-17N-5E Stone with cut "X" (1990)
C54	1706974.92	246653.29	East quarter corner of section 09-17N-5E
C56	1728368.23	230728.19	East quarter corner of section 24-18N-4E 1/2" pipe (1989)
C57	1725832.98	233610.43	North quarter corner of section 30-18N-5E PK nail (1989)
C68	1725793.61	230748.75	Northwest corner of section 30-18N-5E 5/8" rebar (1989)
C72	1731015.23	230728.02	Northeast corner of section 24-18N-4E Rebar with cap (1991)
C73	1731145.24	230727.83	Northwest corner of section 19-18N-5E Rebar (1991)
C74	1725730.92	230749.19	Northeast corner of section 25-18N-4E 5/8" rebar (1988)
C76	1723073.35	230741.05	East quarter corner of section 25-18N-4E PK nail (1.1' east) (1988)
C90	1715269.76	241585.57	Southeast corner of section 32-18N-5E Square head bolt 0.6' north of corner (1992)
C91	1715267.10	241350.07	Northeast corner of section 05-17N-5E Railroad spike (1992)

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C94	1712212.09	236051.14	West quarter corner of section 05-17N-5E PK nail (1988)
C502	1704349.95	230753.74	Southwest corner of section 07-17N-5E Harrison monument (1993)
C504	1704314.02	233336.25	South quarter corner of section 07-17N-5E Brass plug in box (1993)
C506	1709611.51	233397.26	North quarter corner of section 07-17N-5E Railroad spike over stone (1988)
C507	1706946.19	233379.27	Center of section 07-17N-5E Stone (1988)
C509	1707002.14	230757.97	West quarter corner of section 07-17N-5E PK nail (1988)
C1001	1712233.83	246679.76	East quarter corner of section 04-17N-5E Stone (1989)
C1014	1712289.08	252000.59	East quarter corner of section 03-17N-5E Stone (1989)
C1053	1715353.65	249350.79	North quarter corner of section 03-17N-5E

Note: The coordinates provided as secondary control points are for reference only. These coordinates were established by calculation of various boundary surveys which had two or more common corners with the primary control monuments referenced herein. These coordinates are NOT based on the field survey performed for the primary control.

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SECTION 4 - VERTICAL CONTROL DATA
(Vertical Datum - NAVD 1988)

Benchmark	Northing	Easting	Elevation	Description
HSE1[2]	1715248.39	249445.99	803.73	HSE disc in concrete on top of 116th Street Lift Station wet well. 1/4 mile west of Brooks School Road.
HSE3[2, 7]	1709497.51	243950.00	827.46	HSE disc in concrete on west side of Windermere Pointe entrance from 106th Street. South side of entrance wall at angle break in sidewalk. 93.4' S of the centerline of 106th and 33' W of NW corner of brick median sign.
HSE5[2, 7]	1715109.88	239064.29	817.43	HSE disc in concrete at south end of entrance median to Spyglass Hill from 116th Street. 71' from MH at SW corner of 11577 Spyglass Ridge Drive and 3.5' N of back of curb.
HSE6[2, 7]	1715185.56	242770.84	796.06	HSE disc in concrete located within Lake Stonebridge at the east end of Peppermill Lane on the north side of the cul-de-sac median. 12' S of curb inlet and 57' W of centerline (at back of curb) driveway for 11173 Peppermill Lane.
HSE10[8]	1714414.89	258449.28	802.20	HSE disc in concrete set at the entrance to Ashford Pointe on the west side of Deerstone Lane, 17.0’ W of back of curb, 29.4’ SW of back of curb at curb inlet & 13.0’ SE of fire hydrant.
HSE12[2, 7, 14]	1718443.73	257385.42	836.50	HSE disc in concrete set in south island of north entrance to Fall Creek Elementary School. 33.3' S of centerline of north entrance and 72.4' W of centerline of Olio Road. Lies under the canopy of a large tree.

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Benchmark	Northing	Easting	Elevation	Description
HSE13[2, 7]	1726939.23	256205.59	840.88	HSE disc in concrete set at angle break in right-of-way fence in southeast quadrant of exit ramp from I-69 north to State Road 238. 1' from corner R/W fence and 100 +/- to edge of pavement.
HSE15[2, 7]	1718802.24	236319.79	846.50	HSE disc in concrete set 45.0 feet south and 11.0 feet east of the southeast corner of the Cumberland Road bridge abutment over I-69. 29.3' E of centerline of Cumberland Road.
HSE16[2, 7]	1723123.15	238331.81	825.65	HSE disc in concrete at south end of entrance median to Sweet Briar from 131st Street. 1.2' N of back of curb.
HSE19[2, 7]	1728100.08	236349.75	822.36	HSE disc in concrete on north side of Plantana entrance from Cumberland Road. 36.5' N of cut "x" in sidewalk along Plantana Boulevard, 46.5' E of cut "x" in asphalt path along Cumberland and 8' SW of entrance wall.
HSE 20[11, 15]	1714869.98	236002.67	818.89	HSE disc in concrete set at the northeast corner of the Kroger Parking Lot at 116th Street and Cumberland Road. 25' W of concrete walk, 25' S of BC at entrance and 15' E of BC at parking lot second space. Prior published elevation: 819.01
HSE 21[11]	1722164.09	242829.69	809.88	HSE disc in concrete set at the Sandcreek Lift Station at the south entrance. 40' W of centerline of Promise Rd., 4.5' N of paved drive and 15' SE of southeast corner of 8' wood fence.

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Benchmark	Northing	Easting	Elevation	Description
HSE 22[11, 15]	1708548.04	258379.98	837.84	HSE disc in concrete set at the 104th St. entrance to Weatherstone on the west side of Saddlestone Drive. 30' W of BC on Saddlestone Dr. and 40' N of BC on 104th St. Prior published elevation: 837.84
HSE 23[11]	1708769.07	261660.75	844.73	HSE disc in concrete set at the 104th St. entrance to Brooks Landing on the east side of Madison Brooks Drive. 18' N of edge of pavement of 104th St., 35' E of BC of Madison Brooks Drive & 25' SE of Northwest corner of stone entry wall.
HSE 24[11]	1710069.42	265208.91	845.09	HSE disc in concrete set at the entrance to Valleys at Geist on the south side of Geist Ridge Drive. 20' NE of the center of the entry wall and 3' SW of the back of curb.
HSE 25[12]	1726192.99	270604.39	846.62	HSE disc in concrete set at the 136th Street entrance to Barrington Estates on the east side of Stiles Drive. 36' S of edge of pavement of 136th St., 123' SW of telephone pole and 156'+/- E of the centerline of Stiles Drive.
HSE 26[13]	1718032.38	257547.36	838.42	HSE disc in concrete set on the east side of Olio Road, 100'+/- N of the back of curb of the N entrance to Fall Creek Intermediate School and 25'+/- East of the back of walk which runs along Olio Road.
HSE 27[13]	1704514.99	256243.31	838.32	HSE disc in concrete set at the 96th Street entrance to Fox Hollow at Geist on the east side of Wading Crane Avenue. 60' E of the concrete back of walk and 2' N of asphalt path which runs along 96th Street

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Benchmark	Northing	Easting	Elevation	Description
HSE 28[13]	1724201.12	261128.69	839.01	HSE disc in concrete set at the SR 238 entrance to Avalon of Fishers on the north side of Isle Of Man Way. 20' SW of asphalt path, 36' NW of concrete walk and 25'+/- N of the NW end of the stone entry wall.
HSE 29[15]	1707462.37	269743.89	855.00	HSE disc in concrete set 5' south of the south back of curb along 101st St., 1800'+/- east of Cyntheanne Rd., 33' west of the first drive west of the bridge over Flatfork Creek
HSE 30[15]	1720388.59	268107.24	846.25	HSE disc in concrete set 1' north of the asphalt path along the south side of the Cyntheanne Park entrance, 75'+/- east of Cyntheanne Rd., 45'+/- SE of the west tip of the center island in the park entrance.
HSE 31[15]	1727602.21	242771.27	832.13	HSE disc in concrete set near the top of the mound in the greenspace 35'+/- west of the back of asphalt path along the west side of Promise Rd., 110'+/- south of the south back of curb of Green Blade Dr. being the first road south of 141st St.
HSE 32[15]	1714234.32	257875.18	797.85	HSE disc in concrete set 1.5' north of the north edge of asphalt drive to the HSE lift station located southeast of the intersection of Olio Rd. and 113th St., 98' east of the east corner of the lift station fence, 72' west of the intersection of the drive with Stone Key Way
HSE 33[15]	1726084.48	256885.33	841.08	HSE disc in concrete set 10'+/- west of the west edge of sidewalk in the gore of the island west of Olio Rd along the north side of 136th St.

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Benchmark	Northing	Easting	Elevation	Description
HSE 34[15]	1724154.49	233939.48	810.35	HSE disc in concrete set 2' SW of the SW corner of the asphalt lot at the lift station located 1000'+/- north and 300'+/- east of the intersection of S.R. 37 and 131st Street.
HSE 35[15]	1729015.34	231555.91	809.70	HSE disc in concrete set 2'+/- west of the sidewalk along the west side of Harrison Pkwy. north of 141st St., 103'+/- south of the north school entrance and 125' north of the south school entrance.
HSE 36[15]	1709734.07	236186.87	786.51	HSE disc in concrete set at the HSE lift station site located at the northeast corner of Cumberland Rd. and 106th Street. 30' SE of the southeast corner of the north building, 42' NE of the northeast corner of the south building and 3' west of the wood rail fence.
HSE 37[15]	1720028.99	250784.36	820.35	HSE disc in concrete set 3' west of the asphalt walk along the west side of Brooks School Rd., 400'+/- south of 126th St., 30'+/- north of the north edge of pavement into the north Brooks School Elementary entrance
HSE 38[15]	1714311.66	271884.73	809.14	Observed the bronze disk stamped "Hamilton County Geodetic Control Point No. 285" set in the north end of the east concrete handrail on the bridge over Fall Creek on Southeastern Pkwy. south of 113th St.
HSE 39[15]	1731564.05	265047.72	833.08	Observed the bronze disk stamped "Hamilton County Geodetic Control Point No. 175" found in the northeast wingwall of the 146th St. bridge over Mud Creek, 90'+/- west of the intersection of 146th St. and Crystal Creek Dr.

Note: The horizontal values indicated above are per GPS by The Schneider Corporation. Horizontal values are in U.S. Survey feet referenced to the Indiana State Plane Coordinate System, East Zone (NAD 1983).

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SECTION 5 - REVISION HISTORY

1 During November of 1996 a GPS field survey was performed to establish surveyed coordinate values for these monuments. These monuments were added as a part of the "Horizontal Control Data, Addendum #1" The horizontal values indicated are per GPS by Schneider Engineering Corporation and/or GPS by the Hamilton County Surveyor.

2 During March of 1997 a GPS field survey was performed to establish surveyed coordinate values and vertical elevations for these monuments. These monuments were added as a part of the "Vertical Control Data." **Also**, G204 originally identified as the south quarter corner of section 35-18N-5E with coordinates of 1715367.350, 253527.544 (elevation 831.196) was removed from the list. **Also**, elevations were removed from G201-G210, G213 and G215-G218.

3 As stated elsewhere in this document, the coordinates for the "C" series points were calculated based on unsubstantiated data. During June of 1997 a GPS field survey was performed to establish surveyed coordinate values for the following monuments. As a result, the designation for these monuments was changed from "C" to "G". C79 (now G79) was originally identified as a stone with a cut "X" (1992) with coordinates of 1717932.64, 241577.64. C165 (now G165) was originally identified as a PK nail (1988) with coordinates of 1717908.65, 238934.37.

4 As stated elsewhere in this document, the coordinates for the "C" series points were calculated based on unsubstantiated data. During September of 1997 a GPS field survey was performed to establish surveyed coordinate values for the following monument. As a result, the designation for this monument was changed from "C" to "G". C508 (now G508) was originally identified as a concrete monument (1988) with coordinates of 1709658.65, 230760.52. **Also**, G158 was renamed to G158A and G158B was added to address different monuments being held as the south quarter corner of section 34-18N-5E.

5 S236 was verified by a GPS field survey and added to the "Vertical Control Data." **Also**, HSE4 with coordinates of 1709061.35, 248305.91 and elevation of 820.66 located in the median of Hawthorn Ridge Drive across from 12070 Landover Lane was destroyed, and therefore removed from the list. **Also**, HSE8 with coordinates of 1714422.68, 258459.39 and elevation of 802.31 located on the west side of the entrance to Ashford Pointe was destroyed, and therefore removed from the list.

6 G201 and G208 were mislabeled in the Hamilton County Surveyor's corner record sheets. G201 was mislabeled as the northwest corner of section 01-17N-5E and G208 was mislabeled as the south quarter corner of section 36-18N-5E. **Also**, HSE18 with coordinates of 1728401.57, 228944.98 and elevation of 784.99 located at the southwest corner of the Harrison Lakes Lift Station site was destroyed, and therefore removed from the list.

7 Ties were added for these monuments listed in the "Vertical Control Data."

8 During April 2001 a GPS field survey was performed to re-establish surveyed coordinate values for G201 since the intersection of 116th Street and Olio Road was re-constructed in 2000. G201 was originally identified as a railroad spike (1996) with coordinates of 1715408.19, 257438.81.

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Also, during the same survey the surveyed coordinate values for G220 were obtained. **Also**, during the same survey the surveyed coordinate values and vertical elevation were obtained for HSE7 and HSE10. These monuments were added to the "Vertical Control Data."

9 As stated elsewhere in this document, the coordinates for the "C" series points were calculated based on unsubstantiated data. During May of 2002 a GPS field survey was performed to establish surveyed coordinate values for the following monuments. As a result, the designation for these monuments was changed from "C" to "G". C78 (now G222) was originally identified as an iron pipe (1992) with coordinates of 1715217.73, 236296.23. C89 (now G223) had no monument originally identified with coordinates of 1715239.90, 238940.38. C92 (now G224) was originally identified as a PK nail (1988) with coordinates of 1715237.97, 238710.55. C93 (now G225) was originally identified as a 2" steel disk (1992) with coordinates of 1715212.43, 236071.65. **Also**, during May of 2002 another GPS field survey was performed to re-establish surveyed coordinate values for the following monuments since Olio Road was re-constructed in 2000. G92 was originally identified as a 1" iron pipe (1993) with coordinates of 1726081.64, 257386.21. G202 was originally identified as an iron pipe (1996) with coordinates of 1718083.54, 257424.53. G203 had no monument originally identified (1996) with coordinates of 1720757.61, 257407.56. G206 was originally identified as a boat spike (1996) with coordinates of 1723419.28, 257396.47.

10 During March of 2003 a GPS field survey was performed to establish surveyed coordinate values for these monuments. The horizontal values indicated are per GPS by The Schneider Corporation.

11 During April of 2003 a GPS field survey was performed to establish surveyed coordinate values for these monuments. The horizontal and vertical values indicated are per GPS by The Schneider Corporation.

12 During November of 2004 a GPS field survey was performed to establish surveyed coordinate values for HSE25. The horizontal and vertical values indicated are per GPS by The Schneider Corporation. The easting value for G232 was updated and HSE9 was removed from the control listing due to the fact it was destroyed during 2004.

13 During October of 2005 a GPS field survey was performed to establish surveyed coordinate values for HSE26, HSE27 and HSE28. The horizontal and vertical values indicated are per GPS by The Schneider Corporation.

14 During April of 2013 a recovery mission verified that the following HSE monuments no longer exist: 2, 4, 7-9, 11, 14, 17 & 18. Following the recovery mission, a fast-static GPS field survey was performed on all remaining HSE monuments except HSE 12 because it lies under the canopy of a large tree. New HSE monuments stamped "HSE 29" through "HSE 39" set during the recovery mission were also observed during this field survey. A fully-constrained, post-processed GPS network was performed using Trimble Business Center to verify the published coordinate values for the existing monuments HSE 1 through HSE 28 and to establish new coordinates for monuments HSE 29 through HSE 39. Quality Control/Assurance checks consisting of GPS RTK measurements on most of the control points and differential level circuits were performed between existing and newly set monuments.

15 HSE 20 & HSE 22: The published elevations were revised based upon the 2013 fast-static survey.

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