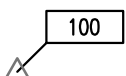


SECTION CORNERS



PL # 48 N: 1,672,512.1319, E: 1,654,784.1150
SW Cor., Sec. 34, T27S, R1E
Found 3/4" IP in monument box
± center intersection Pawnee and Hydraulic
49.40' NE to chiseled "+" top back curb
57.38' SE to chiseled "+" top back curb
52.76' SW to chiseled "+" top back curb
47.19' NW to chiseled "+" top back curb

PL # 49 N: 1,675,166.3435, E: 1,654,746.6798
W 1/4 Cor., Sec. 34, T27S, R1E
Found 3/4" IP in monument box
± center intersection Mt. Vernon and Hydraulic
55.25' SW to nail and shiner in E face light pole
54.77' NW to city BM disc on traffic signal pole base
70.94' NNE to nail and shine in W face light pole
54.69' SE to chiseled "+" in center front face curb inlet

PL # 50 N: 1,677,818.4077, E: 1,654,694.8027
SW Cor., Sec. 27, T27S, R1E
Found 1/2" bar with cap LS960 in monument box
± center intersection Hydraulic and Harry
69.64' SW to chiseled "+" on NW corner concrete base to traffic controller
76.14' NW to chiseled "+" on concrete sign base
80.11' NE to chiseled "+" on center front curb inlet
72.01' SE to city BM disc on concrete base traffic pole

PL # 51 N: 1,680,475.6203, E: 1,654,658.3194
W 1/4 Cor., Sec. 27, T27S, R1E
Found 3/4" IP in monument box
Center intersection Lincoln and Hydraulic
69.86' SW to chiseled "+" on N side concrete for traffic control
55.76' NW to chiseled "+" on S side of concrete for traffic signal
68.04' NE to COW BM disc on traffic signal pole
76.00' SSE to chiseled "+" on front face curb inlet

PL # 57 N: 1,677,875.3302, E: 1,657,353.0811
S 1/4 Cor., Sec. 27, T27S, R1E
Found 1/2" IP in monument box
center intersection Harry and Grove
41.35' SSE to chiseled "+" front face curb inlet
54.91' WSW to chiseled "+" front face curve inlet
38.44' NNW to chiseled "+" top curb
44.70' NE to chiseled "+" top curb

PL # 58 N: 1,675,224.4059, E: 1,657,395.7780
Center Cor., Sec. 34, T27S, R1E
Found 1/2" IP in monument box
± center intersection Mt. Vernon and Grove
38.70' SE to nail and shiner SW face light pole
41.90' NE to three nails in NW face utility pole
58.12' NW to PK nail in SW face light pole
49.93' SW to top center fire hydrant

PL # 59 N: 1,672,570.4955, E: 1,657,444.4514
S 1/4 Cor., Sec. 34, T27S, R1E
Found 1/2" bar in monument box
± center intersection Pawnee and Grove
34.30' S to bent spike and washer on W face power pole
14.02' E chiseled "+" on W end island
39.33' W to chiseled "+" on E end island
55.83' NNE to nail on shiner W face power pole

PL # 3003 N: 1,683,175.7196, E: 1,657,273.1582
SE Cor., Sec. 22, T27S, R1E
Set 1/2" Bar with PEC cap

BENCHMARK LIST



BM 32 - Chiseled "d" on the Northwest corner of the water fountains slab located between the baseball fields on South side of the East High School Sports Fields. ELEV. = 1295.47

BM 33 - Chiseled "d" on top at North end of concrete median at Grove Street, 180' North of the North face Kellogg Overpass. ELEV. = 1295.83

BM 34 - City of Wichita Bass Disc on Easet of side concrete base of steel power tower, on West side of Grove Street, 100' ± South of Kellogg Overpass. C.O.W. Record MSL = 1295.39 ELEV. = 1295.46

BM 35 - Chiseled "d" on top of curb located on the East end of the North curb return of Orme Street, 40' ± East of the @ Spruce Street, opposite a Fire Hydrant. ELEV. = 1292.69

BM 36 - Chiseled "d" on top of curb located on the East end of curb on the South side of Gilbert Street, 50' East of Madison Street. ELEV. = 1291.22

BM 37 - Chiseled "d" on top of South end of curb return at the Southeast corner at the intersection of Morris and Madison Streets. ELEV. = 1290.99

BM 38 - Chiseled "d" on the Northwest corner of the curb inlet located mid-block between Ash and Morris Streets, 150' North of @ of Lincoln Street. ELEV. = 1290.06

BM 39 - Chiseled "d" on the Northwest corner of a curb inlet at the Southeast corner of Ash and Bayley Streets. ELEV. = 1288.45

BM 40 - Chiseled "d" on the top of curb on the East end of a curb return at the Northeast corner of Ash and Rivera Streets. ELEV. = 1290.67

BM 41 - Chiseled "d" on the top center Southwest face of curb inlet at the Northeast corner of Ash and Menlo Streets. ELEV. = 1288.69

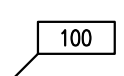
BM 42 - Chiseled "d" on the top Southeast corner of curb inlet at the Southeast corner of Madison and Wilma Streets, North of Harry Street Overpass, 75' ±. ELEV. = 1288.62

BM 43 - Chiseled "d" on the West side of concrete of a steel power tower, located 200' West and 120' South of the intersection of Madison and Osie Streets. ELEV. = 1292.26

BM 44 - Chiseled "d" on the East side of an 8' Diameter concrete base of electrical structure steel tower on the West side of the intersection of Osie and Madison Streets. ELEV. = 1289.86

BM 44-A - Chiseled "d" on top curb at mid-point of curb on SE corner intersection Ash and Funston Streets ELEV. = 1286.04

CONTROL POINTS



BM 45-A - Chiseled "d" on North side of an 8' Diameter concrete base of an electrical structure steel tower at the Southwest corner of Madison and Funston Streets. ELEV. = 1288.03

BM 46 - Chiseled "d" on top curb E side of Ash Street on the S edge of drive way N of House No. 1910 Ash Street ELEV. = 1285.72

BM 46-A - Chiseled "d" on top of curb between two curb inlets at the Northeast corner of Madison and Skinner Streets. ELEV. = 1285.92

BM 47 - Chiseled "d" on center of bottom step of concrete steps on the N side of Mt. Vernon Street overpass, 50' ± E of Ash Street ELEV. = 1287.65

BM 47-A - Chiseled "d" on the Northwest corner of storm drain manhole lid, located 75' ± Southeast of the center of the intersection of Madison and Ash Streets. ELEV. = 1286.19

BM 48 - Chiseled "d" in top center 4' X 8' concrete vault top between the 2 lids on the vault, located 170' S of Mt. Vernon Street and 120' W of Madison Street ELEV. = 1286.58

BM 49 - Chiseled "d" on the center S side of concrete storm drain manhole top, located 30' N of intersection Madison and Hodson Streets ELEV. = 1285.71

BM 50 - Chiseled "d" on the W side concrete base steel power tower, located at SE corner Madison and Rule Streets ELEV. = 1284.73

BM 51 - Chiseled "d" on S side concrete base steel power tower, located at the SW corner of Madison and Stafford Streets ELEV. = 1284.53

BM 52 - Chiseled "d" on S top of curb Stafford Street, 120' W of Swan Street on the E side of concrete drive going S to "The Vineyard Church". ELEV. = 1283.87

BM 53 - Chiseled "d" on W top of curb Swan Street 150' N of Blake Street on the N side of concrete drive going W to "The Vineyard Church" parking lot ELEV. = 1284.05

BM 54 - COW Brass Disk "GROVE PAWNEE" located 1 block W of Grove on the W side of concrete light base in the center median of Grove Street, E of I-135 overpass ELEV. = 1283.83

Pt. No. 6
N: 1,683,886.7675, E: 1,656,294.8203
1/2" Bar near SW. corner West football practice field "East High School"
1. 20.8' WSW to chain link fence
2. 27.0 W to E face 30" steel power pole
3. 64.5 NW to SE corner concrete shot put pad

Pt. No. 7
N: 1,683,719.8440, E: 1,656,860.1061
1/2" Bar 30' South and 2' West of SW corner chain link fence around East High Baseball field

Pt. No. 8
N: 1,683,426.8115, E: 1,657,243.5974
60d Nail in centerline concrete of median of Grove Ave. 150± N of N face Kellogg overpass online W chain link fence to West

Pt. No. 9
N: 1,682,837.6790, E: 1,657,161.5678
Chiseled "+" set on centerline concrete sidewalk at "T" intersection on West side of Grove Ave.
200± S of S face Kellogg overpass

Pt. No. 10
N: 1,682,403.4170, E: 1,656,694.9833
1/2" Bar on top of berm on southern point of the berm
1. 38.0' NW to wrought Iron R/W fence
2. 12.5' SE to 12' Mimosa tree

Pt. No. 11
N: 1,682,127.2474, E: 1,656,561.6433
1/2" Bar 300± N of Gilbert and Madison Intersection
1. 16.3' W to East face 30" steel power pole
2. 57' S to N face 18" Locust tree

Pt. No. 12
N: 1,681,845.7907, E: 1,656,525.8194
1/2" Bar at N back sidewalk of Gilbert St. online with the centerline of Madison Street
1. 20.8' ENE to center power pole
2. 18' NNW to center of manhole

Pt. No. 13
N: 1,681,177.0726, E: 1,656,536.5273
Mag Nail @ intersection Madison & Morris St.
1. 36.2' NW to top center fire hydrant
2. 28.7' NE to SW face power pole

Pt. No. 14
N: 1,680,694.7771, E: 1,656,544.4813
1/2" Bar on North edge sidewalk on @ Madison 150' N of Lincoln
1. 56.6' ENE to SW corner house # 842 S Madison
2. 15.30 E to W face power pole

Pt. No. 16
N: 1,680,572.1678, E: 1,656,545.4630
1/2" Bar on centerline Madison Extended South and on the South Edge Sidewalk North of Lincoln St.

Pt. No. 17
N: 1,680,126.8639, E: 1,656,562.1687
1/2" Bar 120' N of Schweiter Ct. and 165' W of Schweiter St.
1. 11.7' SSE to face large steel power pole
2. 8.5' NNW to wrought iron fence

Pt. No. 18
N: 1,679,598.1300, E: 1,656,280.9631
60d Nail in centerline concrete joint Ash St. at S. end Curve 59' South of Bayley St. centerline extended West

Pt. No. 19
N: 1,679,327.4487, E: 1,656,282.1203
60d Nail in centerline concrete joint Centerline Ash and Mesita St.

Pt. No. 20
N: 1,678,992.5640, E: 1,656,275.6242
60d Nail in centerline concrete joint Centerline Intersection Ash and Rivera

Pt. No. 21
N: 1,678,371.6131, E: 1,656,311.7997
60d Nail in centerline concrete joint Ash St.
1. 27.8' NW to top fire hydrant
2. 15.2' E to SW corner curb inlet
3. 73.7' N of centerline intersection Ash and Menlo Sts.

Pt. No. 22
N: 1,677,969.3895, E: 1,656,636.7155
60d Nail in centerline concrete joint of Madison St.
1. 53.4' S of centerline intersection joints Madison & Wilma St.
2. 17.0' SE to NW corner curb inlet

Pt. No. 23
N: 1,677,199.8881, E: 1,656,643.2943
60d Nail in centerline concrete joints centerline Madison and Osie Sts.

Pt. No. 25
N: 1,677,084.3982, E: 1,656,387.0020
1/2" Bar 115' S and 256' W of intersection Madison & Osie
1. 8.7' SE to W edge sidewalk
2. 8.4' NW to wood fence
3. 27.5' NE to 12" Oak
4. 24.8' SW to 15" Oak

Pt. No. 26
N: 1,676,498.8720, E: 1,656,309.5919
Mag Nail in high edge of curb at SE corner intersection Ash and Funston
1. 5.8' E to @ water meter
2. 28.8' NE to face of light power
3. 48.4' SSE to N end concrete retaining wall at fence corner

Pt. No. 27
N: 1,675,871.7114, E: 1,656,304.7672
60d nail in @ concrete joint, @ Ash and Skinner Streets

Pt. No. 28
N: 1,675,230.9488, E: 1,656,332.2036
1/2" bar on S edge sidewalk on top of berm at Mt. Vernon and Ash Streets
1. 17.5' W to @ Ash Street
2. 2.5' S to N back curb Mt. Vernon Street

Pt. No. 29
N: 1,674,831.3135, E: 1,656,467.4184
1/2" bar 3' E of a wooden fence corner
1. 17.9' W of @ sidewalk
2. 370' S of @ Mt. Vernon Street
3. 105' ± NE of 20" Pine trees

Pt. No. 30
N: 1,674,146.9583, E: 1,656,511.8964
60d nail in @ concrete joint of Madison Street at the S end curve 69' S of @ Hodson Street extended W

Pt. No. 31
N: 1,673,663.2883, E: 1,656,639.8497
Mag nail in @ concrete joint Madison and Rule Streets
1. 48.55' SE to NW corner base plate of steel power pole
2. 43.40' NE to S end wrought iron fence

Pt. No. 32
N: 1,673,247.7315, E: 1,656,739.1623
1/2" bar near the SW corner of garden area, 10' W and 130' S of intersection Madison and Stafford Streets
1. 20.5' W to center of manhole
2. 21.0' S to E end guard rail
3. 17.6' S to N face power pole
4. 10.5' E to @ concrete joint Madison extended S

Pt. No. 33
N: 1,673,366.7156, E: 1,656,391.1260
Mag nail in concrete joint on @ of Swan Street 12' S of @ of Stafford Street

Pt. No. 34
N: 1,673,372.3922, E: 1,656,148.8697
60d nail in @ of intersection Stafford and Minnesota Streets

Pt. No. 35
N: 1,673,102.3908, E: 1,656,457.9168
60d nail in @ concrete joint Swan Street online with @ E entrance "The Vineyard" parking lot

Pt. No. 36
N: 1,681,196.2226, E: 1,657,280.7209
Mag nail in @ concrete joint Morris Street
1. 8.0' E of E high edge of curb Grove Street
2. 16.9' S of S rim sewer manhole

Pt. No. 37
N: 1,681,851.1624, E: 1,657,262.7189
60d nail in @ concrete joint Gilbert Street on E high edge curb Grove Street

Pt. No. 38
N: 1,677,712.0721, E: 1,656,648.4534
60d spike at intersection Madison and Spruce Streets in concrete joint on the E edge of Madison's pavement and at the @ concrete joint of spruce to the E

Pt. No. 39
N: 1,676,567.4817, E: 1,656,653.4571
60d spike in concrete joint @ of Madison Street at N right of way Funston Street

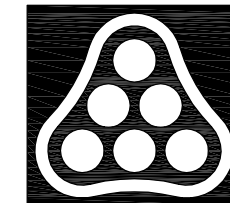
Pt. No. 40
N: 1,675,849.6348, E: 1,656,664.9602
60d spike in concrete joint @ of Madison Street at S right of way Skinner Street

Pt. No. 41
N: 1,675,414.9165, E: 1,656,671.6760
2" mag nail in concrete joint on the @ of Madison Street at N P.C. of Ash Street

Pt. No. 45
N: 1,673,058.9796, E: 1,656,808.0219
Set 60d nail in concrete joint in cul-de-sac Blake Street
1. 27.5' N center line concrete joint Blake Street
2. 23.5' W chain link fence corner post

Pt. No. 46
N: 1,672,738.5503, E: 1,656,989.7552
Set 1/2" bar 150' N of N curb line Pawnee and 150' E of E face bridge N Bound I-135
1. 14.3' NW center street light pole
2. 12.9' W edge concrete ramp pavement
3. 11.0' E W face cedar tree

Pt. No. 47
N: 1,672,626.5960, E: 1,656,556.8350
Set 1/2" bar NW corner Pawnee and I-135
1. 19.9' SE face power pole
2. 44' S N cur line Pawnee Avenue
3. 28' E W curb line I-135 Ramp
4. 31' W NE corner steel pipe guard rail gas regulator station



No.	Revision	By	Date
RELOCATION OF SANITARY SEWER NO. 23 PHASE 2: KELLOGG/GROVE TO PAWNEE/I-135 HORIZONTAL AND VERTICAL CONTROL JAMES L. ARMOUR, P.E. - CITY ENGINEER CITY OF WICHITA PROJECT NO. 468-84375			
Professional Engineering Consultants, P.A. 303 S. TOPEKA • WICHITA, KANSAS 67202 316-262-2691 • FAX 316-262-3003			
Designed by	MDK, EJB	Job No.	35-07600-001
Drawn by	CSL, JAN	Date	AUGUST 2008
			Sht. 4 of 75