

Bench Mark 1
City of Wichita disk in the signal pad at the Northwest corner of the intersection of 13th Street North and Hydraulic.
Elevation: 1302.97

Bench Mark 2
X cut on the top of curb Northwest corner of the intersection of 13th Street North and Kansas, 5' West to FH, 4' North to the face of the building to the West.
Elevation: 1302.99

Bench Mark 3
100' spk. in South face of 24" elm tree at the Northwest corner of the intersection of 13th Street North and Pratt.
Elevation: 1304.83

Bench Mark 4
Square cut on CL of the North-South sidewalk at the Northeast corner of the intersection of 13th Street North and Ash, 33' North of the North curb line of 13th Street.
Elevation: 1304.17

Bench Mark 5
Square cut on the top of curb at the Northwest corner of the intersection of 13th Street North and Madison, in line with the sidewalk to the West.
Elevation: 1304.41

Bench Mark 6
Square cut on CL of the North-South and West sidewalk, at the Northwest corner of the intersection of 13th Street North and Spruce, 100' North of the intersection.
Elevation: 1305.73

Bench Mark 7
City of Wichita disk on the signal pole base at the Northeast corner of the intersection of 13th Street North and Grove.
Elevation: 1307.44

Bench Mark 8
Square cut on the CL of the sidewalk 6' West of the FH at the Northwest corner of the intersection of 13th Street North and Poplar.
Elevation: 1308.66

Bench Mark 9
Square cut on the Southeast corner of the old LP base, 2' South of the Southeast corner of a wood privacy fence, at the Northwest corner of the intersection of 13th Street North and Green.
Elevation: 1311.26

Bench Mark 10
Square cut on the CL of the North-South sidewalk, 40' South of the South curb line of 13th, at Southwest corner of the intersection of 13th Street North and Estelle.
Elevation: 1317.77

Bench Mark 11
Square cut on the top of curb, in line with concrete wall to the East, at the Northeast corner of the intersection of 13th Street North and Volusia, 100' North of the intersection.
Elevation: 1332.02

Bench Mark 12
Square cut on the CL of the North-South and East-West sidewalks to address 1406, at the Northeast corner of the intersection of 13th Street North and Erie.
Elevation: 1338.22

Bench Mark 13
A in "HACKER CONST 83", stamped in the top of curb of the North curb return of the 1st entrance North of 13th Street North, on the West side of Chautauqua.
Elevation: 1340.00

Bench Mark 14
Square cut on CL of the North-South sidewalk, 6' E. of 15" elm tree, at the Northwest corner of the intersection of 13th Street North and Lorraine.
Elevation: 1346.09

Bench Mark 15
City of Wichita disk at Northwest corner of the intersection of 13th Street North and Hillside.
Elevation: 1356.57

Bench Mark 16
X cut on the East side of the LP base in the center of the parking lot at the Northeast corner of the intersection of 13th Street North and Fairmont.
Elevation: 1378.32

Bench Mark 17
Square cut on CL of the North-South sidewalk, in line with the North face of the house to the East of address 1404, at the Northeast corner of the intersection of 13th Street North and Vassar.
Elevation: 1376.10

Bench Mark 18
+ cut on the North rim of the SSMH at the Northeast corner of the intersection of 13th Street North and Yale.
Elevation: 1363.07

Bench Mark 19
Square cut on the top of curb, on the East side of Yale Blvd., on the South side of the curb inlet 200' North of the intersection of 13th Street North and Yale Blvd.
Elevation: 1356.33

Bench Mark 20
Square cut on the CL of the sidewalk, on the North side of 13th, West of the 1st North side drive that is West of the intersection of 13th Street North and Gardner.
Elevation: 1365.73

Bench Mark 21
City of Wichita disk on the old railroad crossing base, 15' West of CL of the old railroad bed on the South side of 13th, West of 13th Street North and Roosevelt.
Elevation: 1380.63

Bench Mark 22
Square cut on the top of curb, on the East side of the sidewalk 5' South of the South face of the building to the East of 13th Street North and Vesta.
Elevation: 1390.16

Bench Mark 23
Square cut on the top of curb, on the West side of Bluff, in line with the face of the building to the West of the intersection of 13th Street North and Bluff.
Elevation: 1395.94

Bench Mark 24
Square cut on the top of curb, on the West side of Fountain, on the South return of the 1st drive North of the intersection of 13th Street North and Fountain.
Elevation: 1394.22

Bench Mark 25
Square cut on the CL of the sidewalk, on the East side of Broadview, 50' North of the intersection of 13th Street North and Broadview.
Elevation: 1388.64

Bench Mark 26
Square cut on the CL of the sidewalk, on the West side of Belmont, 6' South of the drive to address 1409, North of the intersection of 13th Street North and Belmont.
Elevation: 1384.94

Bench Mark 27
Square cut on the top of curb, on the West edge of the Furniture on Consignment parking lot, 50' North of the North sidewalk, at the intersection of 13th Street North and Crestway.
Elevation: 1382.13

Bench Mark 28
Square Spike in the East face of the LP, on the West side of Terrace, 150' North of the intersection of 13th Street North and Terrace.
Elevation: 1388.20

Bench Mark 29
Square Spike in the East face of the LP, on the West side of Pershing, 150' North of the intersection of 13th Street North and Pershing.
Elevation: 1389.43

Bench Mark 30
Square cut on the CL of the North-South sidewalk, on the East side of Dellrose, at the CL of the 2nd entrance South of the intersection of 13th Street North and Dellrose.
Elevation: 1394.80

Bench Mark 31
City of Wichita disk on the sign pole base, at the Southwest corner of the intersection of 13th Street North and Oliver.
Elevation: 1395.91

WI/4 Section Corner 12-T27S-1E
Fnd. 3/4" IP in Thimble
46.55' NE to the NW corner of signal manhole vault
59.30' ESE to ctr. Top FH
55.80' SW to hilti nail and washer in signal manhole vault
On centerline of 17th. Street to west

WI/4 Section Corner 13-T27S-1E
Fnd. 3/4" IP in Thimble
45.73' NE to + cut in center of C of W BM disk
46.91' SE to mag nail in PP40.
74' SW to ctr. Top FH
On centerline crossroads

WI/4 Section Corner 14-T27S-1E
fnd. 3/4" IP in Thimble
65.12' NW to hilti nail and wshr. At end cb return
76.15' SW to + cut on centerline sdwk.
26.49' NE to + cut at corner of hdwl.

SW Section Corner 11-T27S-1E
Fnd. 1/2" bent bar in Thimble
58.73' SE to 3/4" pipe in signal MH vault
58.73' SW to northerly 3/4" pipe in signal MH vault
Centerline N-S & E-W Roads

WI/4 Section Corner 11-T27S-1E
Fnd. 1/2" IP in Thimble
52.52' NW to + cut in top curb at middle of curve
53.64' NE to + cut in top curb at middle of curve
49.85' SE to + cut in top curb at middle of curve
54.11" SW to + cut in top curb at middle of curve
On centerlines of 17th and Hillside

S1/4 Section Corner 10-T27S-R1E
fnd. 1/2" IP in Thimble
66.29' SE to + cut on top of old cut off bolt in pplot
55.27' NE to C of W BM disk
67.53' SW to ctr top FH
On centerline crossroads 13th and Grove

SW Section Corner 10-T27S-1E
fnd 3/4" IP in Thimble
53.94' NE To hilti nail and Wshr in Signal MH vault
On centerline Hydraulic N-S
55.92' SE to hilti nail and wshr in sug pole base
66.44' WNW to C of W BM disk on traffic sig. ped.

GENERAL NOTES

FILL, FLUSH AND VIBRATE APPROVED SAND ALONG RCB & RCP CONSTRUCTION UNDER PAVEMENT. PLACE SAND AS DESIGNATED IN THE STANDARD SPECS AND SPECIAL PROVISIONS. ALL MATERIALS, LABOR, TOOLS, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK SHALL BE SUBSIDIARY TO THE BID ITEM "SAND FILL, FLUSH & VIBRATE".

CONCRETE COLLARS SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE SUBSIDIARY TO THE INDIVIDUAL PIPE BID ITEMS.

REMOVE, CLEAN, STORE AND RECONSTRUCT THE BUS BENCHS AND BIKE RACKS AS DESIGNATED IN THESE DRAWINGS. IF THE EXISTING STRUCTURE IS DAMAGED DURING THE REMOVAL OPERATIONS, REPLACE ANY DAMAGED MATERIALS WITH NEW MATERIALS MATCHING THE ORIGINALS. BEFORE REMOVING THE EXISTING STRUCTURES DESIGNATED FOR RECONSTRUCTION, TAKE SUFFICIENT MEASUREMENTS AND COLOR PHOTOGRAPHS OF THE EXISTING STRUCTURES SO THE RECONSTRUCTION DUPLICATES THE ORIGINAL. PROVIDE THE ENGINEER WITH COPIES OF THE MEASUREMENTS AND PHOTOGRAPHS. SUBMIT FOR THE ENGINEER'S APPROVAL, A WRITTEN PLAN FOR THE RECONSTRUCTION OF THE EXISTING STRUCTURES, BEFORE BEGINNING ANY REMOVAL AND RECONSTRUCTION WORK. THE ENGINEER WILL MEASURE REMOVAL AND RECONSTRUCTION OF EXISTING STRUCTURES BY THE LUMP SUM.

CONSTRUCTION OF THE BUS SHELTER PAD AND BUS BENCH PADS AS DESIGNATED IN THESE DRAWINGS SHALL BE PAID AS "CONCRETE SIDEWALK 5".

THE 6" CRUSHED ROCK HOOKUPS SHALL BE BUILT WITH TYPE 1 ROCK BEDDING PER CITY OF WICHITA SPECIFICATIONS. (ASTM C33, GRADATION NO. 67)

UTILITY CONTACTS:

JASON EDWARDS
AT&T
154 N. BROADWAY, ROOM 210
WICHITA, KS 67202
316-268-2008

JACQUELIN ROLFE
WESTAR ENERGY
P.O. BOX 208
WICHITA, KS 67201
316-261-6552

GREG LOLLEY
PUBLIC WORKS & UTILITIES - WATER
455 NORTH MAIN, 8TH FLOOR
WICHITA, KS 67202
316-268-4501 Ext. 2356

MARC HENDERSON
COX COMMUNICATIONS
801 EAST DOUGLAS
WICHITA, KS 67202
316-262-4270 / 263-2061

JAMES COE
KANSAS GAS SERVICE
1021 EAST 26TH STREET NORTH
WICHITA, KS 67219
316-832-3126

LADONNA LAWRENZ
PUBLIC WORKS & UTILITIES - SAN. SEWER
455 NORTH MAIN, 8TH FLOOR
WICHITA, KS 67202
316-268-4501

FABRIC BASE REINFORCEMENT SHALL AS PER CITY OF WICHITA SPECIAL PROVISIONS AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURE'S RECOMMENDATIONS. BE INSTALLED IN ACCORDANCE WITH MANUFACTURE'S RECOMMENDATIONS. CRUSHED ROCK SHALL BE AS PER CITY OF WICHITA SPECIAL PROVISIONS.

ROCK BASE IS TO BE COMPACTED AND SMOOTHED WITH A STEEL FACED ROLLER PRIOR TO PLACEMENT OF ASPHALT. TACK COAT WILL NOT BE APPLIED TO ROCK BASE.

A TACK COAT OF EMULSIFIED ASPHALT (SC-1H OR CSS-1H) SHALL BE APPLIED AT AN APPROXIMATE RATE OF 0.05 GALLONS PER SQUARE YARD BETWEEN EACH LIFT OF ASPHALTIC MATERIAL.

BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING AUTOMATIC CONTROLS FOR LINE AND GRADE.

TRANSVERSE CONSTRUCTION JOINTS IN EACH LIFT SHALL BE STAGGERED A MINIMUM DISTANCE OF ONE (1) FOOT FROM JOINTS IN PRECEDING LIFTS AND PLACED SO THAT A JOINT WILL BE CONSTRUCTED ON THE CENTERLINE OF THE TOP LIFT.

PUBLIC AND PRIVATE UTILITY FACILITIES SHALL BE MOVED OR ADJUSTED AS NECESSARY BY THE OWNERS TO FIT THE NEW CONSTRUCTION UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE PROPOSAL.

ALL SAW CUTS SHOWN ON THE PLANS SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED SUBSIDIARY TO OTHER ITEMS OF THE CONTRACT. THE DEPTH OF THE CUT SHALL BE FULL DEPTH.

EXCAVATION SHOWN TO BE WASTED SHALL BE WASTED ON SITES PROVIDED BY THE CONTRACTOR. THESE SITES SHALL BE APPROVED BY THE ENGINEER AS TO SUITABILITY, APPEARANCE, AND SITE LOCATION. LOCATIONS THAT, IN THE OPINION OF THE ENGINEER, WILL LEAVE AN UNSIGHTLY APPEARANCE WILL NOT BE APPROVED.

LOW AND SETTLED LOTS WHERE STRUCTURES HAVE BEEN REMOVED SHOULD BE FILLED AND LEVELED PER PROJECT SPECIAL PROVISIONS. EARTHWORK AND SEEDING OF THESE SHALL BE CONSIDERED SUBSIDIARY TO THE "SITE RESTORATION" BID ITEM.

ALL DISPOSAL SITES MUST BE APPROVED BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT. MATERIAL EITHER STOCKPILED OR DISPOSED OF IN A FLOOD PLAIN WOULD REQUIRE A KANSAS STATE BOARD OF AGRICULTURE PERMIT. ANY MATERIAL DUMPED IN WATERS OF THE UNITED STATES OR WETLANDS IS SUBJECT TO U.S. CORPS OF ENGINEERS PERMITTING REGULATIONS.

ANY MATERIAL BURIED OR STOCKPILED BEYOND APPROVED CONSTRUCTION LIMITS WOULD REQUIRE ADDITIONAL ARCHEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.

EXISTING PAVEMENT (CONCRETE AND ASPHALT) EXCAVATED AS PART OF THIS PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE DISPOSED OF ON SITES APPROVED BY THE ENGINEER.

ALL CONNECTIONS OF EXISTING PIPE TO NEW STRUCTURES OR NEW PIPE TO EXISTING STRUCTURES SHALL BE CONSIDERED SUBSIDIARY TO THE STORM SEWER BID ITEM.

EXISTING STREET SIGNS SHALL BE REMOVED AND DELIVERED INTACT TO THE CITY OF WICHITA MAINTENANCE FACILITY, 1801 S. MCLEAN, WICHITA, KS.

ALL EXISTING CULVERT PIPES NOT IDENTIFIED TO BE SALVAGED SHALL BECOME PROPERTY OF THE CONTRACTOR.

SEDIMENT IN EXISTING PIPE OR STRUCTURES CONNECTING TO NEW PIPE OR STRUCTURES SHALL BE CLEANED OUT. ALL LABOR, EQUIPMENT, AND MATERIALS USED FOR SEDIMENT REMOVAL SHALL BE SUBSIDIARY TO THE STORM SEWER BID ITEM.

EXISTING UTILITIES AND THEIR LOCATIONS, AS SHOWN ON THE PLANS, REPRESENT THE BEST INFORMATIN OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS UTILITY COMPANIES AND IS EITHER FROM COMPANY RECORD DRAWINGS OR COMPANY-PROVIDED FIELD LOCATIONS. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION.

THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION OF THIS PROJECT.

ALL PIPE PLUGS SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE SUBSIDIARY TO THE PROJECT.

CONCRETE PAVING BRICK NOTES

NONWOVEN GEOTEXTILE MATERIAL SHALL MEET THE REQUIREMENTS OF AASHTO M 288, CLASS 2 (CONTECH C-60NW OR APPROVED EQUAL.)

PAVING BRICKS SHALL COMPLY WITH PEDESTRIAN ASTM C936, 8,000 P.S.I. MINIMUM AVERAGE COMPRESSIVE STRENGTH AND 8% MAXIMUM ABSORTION. PAVERS SHALLBE BEVEL-EDGED. INSTALL HOLLAND STONE IN A 90° HERRINGBONE PATTERN FROM CURB BACK EDGE TO CURB BACK EDGE. COLOR OF THE PAVING BRICK SHALL BE RED (NATURAL, BROWN, SANDSTONE, CHARCOAL, RED/BLACK BLEND).

SAND BEDDING SHALL MEET THE SPECIFICATIONS REQUIREMENTS FOR FINE AGGREGATE. AN UNCOMPACTED SAND LAYING COURSE SHALL BE SPREAD EVENLY OVER THE AREA TO BE PAVED AND THEN SCREEDDED TO A LEVEL OF APPROXIMATELY 1" THICKNESS. ONCE SCREEDDED AND LEVELED TO THE DESIRED ELEVATION, THE SAND LAYING COURSE SHALL NOT BE DISTURBED IN ANY WAY.

PAVERS SHALL BE PLACED WITH THE CHAMFERED SIDE UP, AND JOINT SPACES KEPT UNIFORM APPROXIMATELY 1/8" THICK. THE GAPS AT THE EDGE OF THE PAVED SURFACE SHALL BE FILLED WITH PAVERS CUT TO FIT. CUTTING SHALL BE ACCOMPLISHED TO LEAVE A CLEAN EDGE TOWARD THE TRAFFIC SURFACE USING A MASONRY SAW. WHENEVER POSSIBLE, NO CUTS SHOULD RESULT WITH A PAVER LESS THAN ONE-THIRD OF ITS ORIGINAL DIMENSION.

BRICK PAVERS SHALL BE VIBRATED TO THEIR FINAL LEVEL IN THE SAND LAYING COURSE BY TWO OR THREE PASES OF A VIBRATING COMPACTOR CAPABLE OF 3,000 TO 5,000 POUNDS COMPACTION FORCE WITH THE SURFACE CLEAN AND JOINTS OPEN.

AFTER VIBRATION, CLEAN CONCRETE SAND SHALL BE SPREAD OVER THE PAVER SURFACE, ALLOWED TO DRY, AND VIBRATED INTO THE JOINTS WITH ADDITIONAL PASSES OF THE PLATE VIBRATOR SO AS TO COMPLETELY FILL THE JOINTS. A LIGHT COATING OF SAND SHALL BE SWEEPED OVER THE COMPLETED SURFACE AND LEFT TO WEATHER IN.

CONCRETE UNDER THE PAVERS SHALL CONFORM TO CITY OF WICHITA STANDARD SPECIFICATIONS FOR PAVING MIX.

CONCRETE PAVING BRICKS SHALL BE PAID FOR AS "BRICK PAVERS (CONCRETE)". ALL MATERIALS, LABOR, TOOLS, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK SHALL BE SUBSIDIARY.

Revision

By Approved

No. Date

13th STREET NORTH FROM KANSAS TO OLIVER
STREET & DRAINAGE IMPROVEMENTS

GENERAL NOTES

CITY OF WICHITA, KANSAS
JAMES L. ARMOUR, P.E. - CITY ENGINEER

POE & ASSOCIATES, INC.
CONSULTING ENGINEERS
5940 E. Central, Suite 200
Wichita, KS 67208-4242
Phone 316/685-4114 FAX 316/685-4444



DESIGNED BY: J. UNRUH

DRAWN BY: J. UNRUH

POE JOB NO.: 1871A

DATE: July 2008