

Waterline Staking Points Table								
Point #	Waterline	WL Station	Baseline	BL Station	Offset	Northing	Easting	Description
1						10000.00	10000.00	Control Point - Cross F- Section Corner 1/4 37th & E. of Brdwy
2						12673.59	9958.64	Benchmark - Iron Pin (Control Point)
50						10031.13	9899.92	Benchmark - COW Disc
100						10471.75	10130.83	Benchmark - COW Disc
600	WL 1	0+00.00	BL 1	28+68.77	14.24 Lt.	10543.13	10063.06	Connect to Existing 12" Waterline
601	WL 1	0+05.00	BL 1	28+73.77	14.24 Lt.	10548.13	10062.98	Deflect Pipe 2"00'00" Rt.
602	WL 1	0+35.00	BL 1	29+03.75	13.16 Lt.	10578.12	10063.57	Deflect Pipe 2"00'00" Lt.
603	WL 1	5+35.00	BL 1	34+03.75	12.23 Lt.	11078.07	10056.30	Deflect Pipe 3"00'00" (Down)
604	WL 1	5+95.00	BL 1	34+63.75	12.12 Lt.	11138.06	10055.43	1-12" 45° C.I.M.J. Bend Lt., Deflect Pipe 3"00" (Up)
605	WL 1	6+08.44	BL 1	34+73.59	21.28 Lt.	11147.75	10046.11	1-12" 45° C.I.M.J. Bend Rt., Deflect Pipe 3"00" (Up)
606	WL 1	6+68.44	BL 1	35+33.59	21.28 Lt.	11207.74	10045.13	Deflect Pipe 3"00'00" (Down)
607	WL 1	11+20.00	BL 1	39+85.15	21.28 Lt.	11659.24	10037.73	Deflect Pipe 1"54'01" (Down)
608	WL 1	11+50.00	BL 1	40+15.15	21.28 Lt.	11689.24	10037.24	Deflect Pipe 1"54'01" (Up)
609	WL 1	11+60.00	BL 1	40+25.15	21.28 Lt.	11699.24	10037.08	1-Fire Hydrant Assy.
610	WL 1	11+60.00	BL 1	40+25.15	14.28 Lt.	11699.35	10044.08	Fire Hydrant
611	WL 1	11+70.00	BL 1	40+35.15	21.28 Lt.	11709.24	10036.91	Deflect Pipe 1"54'01" (Up)
612	WL 1	12+00.00	BL 1	40+65.15	21.28 Lt.	11739.23	10036.42	Deflect Pipe 1"54'01" (Down)
613	WL 1	12+50.00	BL 1	41+15.18	21.28 Lt.	11789.22	10035.60	Deflect Pipe 1"09'45" Rt. Begin Trenchless Installation
614	WL 1	15+50.00	BL 1	44+15.09	15.19 Lt.	12089.22	10036.78	Deflect Pipe 1"09'45" Lt. End Trenchless Installation
615	WL 1	16+50.00	BL 1	45+15.09	15.19 Lt.	12189.21	10035.14	1-Fire Hydrant Assy.
616	WL 1	16+50.00	BL 1	45+15.09	15.19 Lt.	12189.26	10038.14	Fire Hydrant
617	WL 1	17+50.00	BL 1	46+15.09	15.19 Lt.	12289.20	10033.50	Deflect Pipe 1"57'06" (Down)
618	WL 1	18+06.49	BL 1	46+17.58	15.19 Lt.	12345.68	10032.57	1-12" 45° C.I.M.J. Bend Lt.
619	WL 1	18+15.10	BL 1	46+77.67	21.28 Lt.	12351.67	10026.39	1-12" 45° C.I.M.J. Bend Rt.
620	WL 1	19+50.00	BL 1	48+12.57	21.28 Lt.	12486.55	10024.18	Begin Trenchless Installation
621	WL 1	22+25.00	BL 1	50+62.60	21.85 Lt.	12736.50	10019.42	End Trenchless Installation
622	WL 1	23+13.00	BL 1	51+75.60	22.05 Lt.	12849.48	10017.21	1-12"x8" C.I.M.J. Tee
623	WL 1	24+16.03	BL 1	41+78.81	41.53 Lt.	12851.70	9914.20	Deflect Pipe 3"00'00" (Up)
624	WL 1	24+36.03	BL 1	41+79.57	61.61 Lt.	12852.13	9894.20	Deflect Pipe 3"00'00" (Down)
625	WL 1	25+50.00	BL 2	41+83.89	175.40 Lt.	12854.59	9780.26	Deflect Pipe 2"15'54" (Up)
626	WL 1	25+80.00	BL 2	41+85.02	205.38 Lt.	12855.24	9750.27	Begin Trenchless Installation
627	WL 1	26+80.70	BL 2	41+88.84	306.01 Lt.	12857.41	9649.59	1-8"x 8"x 8" C.I.M.J. Tee, End Trenchless Installation
628	WL 1	26+92.70	BL 2	42+00.83	305.55 Lt.	12869.40	9649.85	1-Fire Hydrant Assy.
629	WL 1	26+92.70	BL 2	42+00.64	300.55 Lt.	12869.30	9654.85	Fire Hydrant
630	WL 1	27+00.70	BL 2	42+08.83	305.25 Lt.	12877.40	9650.02	Deflect Pipe 3"00'00" Lt.
631	WL 1	27+20.70	BL 2	42+28.82	305.54 Lt.	12897.39	9649.41	Deflect Pipe 3"00'00" Lt.
632	WL 1	27+40.70	BL 2	42+48.78	306.87 Lt.	12917.32	9647.74	Deflect Pipe 2"00'00" Lt.
633	WL 1	28+22.69	BL 2	43+80.34	315.20 Lt.	12998.74	9638.09	Deflect Pipe 2"06'42" Rt.
634	WL 1	28+85.00	BL 2	43+92.52	319.24 Lt.	13060.84	9633.03	Deflect Pipe 3"00'00" (Down)
635	WL 1	29+09.57	BL 2	44+17.04	320.83 Lt.	13085.34	9631.04	1-8" 22"30'00" C.I.M.J. Bend Rt., Deflect Pipe 3"00" (Up)
636	WL 1	29+34.95	BL 2	44+41.06	312.66 Lt.	13109.49	9638.79	1-8" 22"30'00" C.I.M.J. Bend Lt., Deflect Pipe 3"00" (Up)
637	WL 1	29+65.00	BL 2	44+71.06	314.61 Lt.	13139.44	9636.38	Deflect Pipe 3"00'00" (Down)
638	WL 1	29+98.06	BL 2	45+04.05	316.75 Lt.	13172.40	9633.69	Deflect Pipe 4"00'00" Rt.
639	WL 1	31+49.66	BL 2	45+55.64	316.00 Lt.	13323.98	9631.97	Deflect Pipe 2"00'00" Rt.
640	WL 1	32+37.40	BL 2	47+43.35	318.63 Lt.	13411.64	9627.90	Deflect Pipe 2"00'00" Rt.
641	WL 1	33+48.00	BL 2	48+53.94	318.08 Lt.	13522.22	9626.64	1-Fire Hydrant Assy
642	WL 1	33+48.00	BL 2	48+53.98	325.58 Lt.	13522.14	9619.14	Fire Hydrant
643	WL 1	33+72.98	BL 2	48+78.92	317.96 Lt.	13547.20	9626.36	End Construction Waterline 1
644	WL1A	0+00.00	BL 2	37+26.58	271.87 Lt.	12396.01	9691.04	Begin Construction Waterline 1A, Install 1-Fire Hydrant Assy.
645	WL1A	0+08.00	BL2	37+34.56	272.48 Lt.	12403.97	9690.30	1-Fire Hydrant Assy.
646	WL1A	0+08.00	BL 2	37+34.87	268.49 Lt.	12404.34	9694.28	Fire Hydrant
647	WL1A	0+70.00	BL 2	37+96.38	277.21 Lt.	12465.71	9684.61	Begin Trenchless Installation
648	WL1A	1+24.93	BL 2	38+51.15	281.41 Lt.	12520.41	9679.57	Deflect Pipe 1"00'00" Lt.
649	WL1A	3+16.87	BL 2	40+42.51	299.36 Lt.	12711.20	9658.63	Deflect Pipe 1"30'00" Rt.
650	WL1A	3+60.00	BL 2	40+85.55	302.24 Lt.	12754.18	9655.05	End Trenchless Installation
651	WL1A	4+23.46	BL 2	41+48.86	306+48 Lt.	12817.42	9649.77	Deflect Pipe 3"00'00" Rt.
652	WL1A	4+43.46	BL 2	41+68.85	306.76 Lt.	12837.41	9649.16	Deflect Pipe 3"00'00" Rt.

## GENERAL NOTES

- Existing utilities, both above and below ground, and their locations as shown on the plans, represent the best information available for design. The locations of utilities as shown on the plans are not guaranteed and the Contractor shall verify all utilities and their locations before beginning construction. Additional utilities, including relocated utilities, which are not shown on the plans may be encountered. In this event, the Contractor shall adjust his schedule and cooperate with the utility companies to ensure that their facilities be adjusted as required to clear construction. The Contractor shall exercise extreme caution while working near utilities.
- All water mains and appurtenances shall be installed in accordance with City of Wichita, Kansas Standard Specifications for Water Main Installations.
- The Water Department shall field locate water valves one time during construction when requested by the Contractor. It shall be the responsibility of the Contractor to preserve such field locations during the construction process. Water valves, water valve boxes, or fire hydrants damaged during construction shall be repaired at the Contractor's expense. Contact Greg Lolley with the Wichita Water Department for water service information.
- Opening and closing of water valves shall be done slowly to prevent damage to the distribution system by a water hammer. All valves that are closed by the Contractor must be reopened as new construction permits. The Project Inspector must ascertain that any valve closed by the Contractor is reopened. The Contractor will be permitted to operate a water valve only when the Project Inspector assigned to the project is present.
- The Contractor shall not start work on the project until the Project Inspector assigned to the project is present. Any work done without inspection will be required to be uncovered for inspection.
- Power Poles within close proximity to the new water line may require temporary bracing to facilitate construction. Contractor shall contact Shane Price at Westar Energy at 261-6315 prior to construction to coordinate pole bracing.
- Temporary Blow-off Valves necessary to flush lines at existing water line tie-ins shall not be paid for directly, but shall be considered INCIDENTAL to other items in the bid.
- All Open Cut Pipe Trench under New Pavement shall be back-filled with Sand, flushed with water and vibrated. To be Paid as the Measured Quantity Item, "Sand Fill, Flushed & Vibrated."
- All water pipe trench in pavement or driveways which will be required to carry traffic until permanent replacement shall be topped with a Minimum of 6" of Crushed Rock (Compacted) to be Incidental to the Project. Contractor Shall be Required to Maintain Temporary Crushed Rock Until Permanent Pavement is Installed.
- Old Lawrence Road Pavement is Asphalt Overlay on Brick. Contractor shall Protect Old Lawrence Road Pavement from Damage. If Damaged, such Pavement shall be replaced to Match Existing Pavement at no cost.
- North-South Traffic shall be maintained at all times on Old Lawrence Road. Contractor may use Flag Persons as required. Traffic on Broadway may be restricted to One-Lane Southbound if required for Construction. Contractor shall Provide, Erect, and Maintain Traffic Control Devices in Accordance with the Manual on Uniform Traffic Control Devices (M.U.T.C.D.). Access to Residences and Businesses shall be maintained at all times.
- Contractor shall be required to contact Nathan Anderson, B.N.S.F. RR Roadmaster, (nathan.anderson@bnsf.com), at (316) 284-3479 (Office) or (620) 202-0925, at least five (5) days prior to working in B.N.S.F. RR Right-of-Way.

- Contractor shall give all Property Owners and/or Tenants of Developed Property Directly Abutting the Construction of this Project a Minimum of ten (10) Days Notice Prior to start of Construction, and a 24 hour notice prior to any Planned Water shut down.
- Each Bidder shall visit the Site of the Project before Submitting a Proposal in Order to become better informed of the Existing field Conditions and Obstacles which might be Encountered during Construction. Each Bidder should understand that no Additional Compensation will be Awarded for extra Work that Should have been Evaluated Prior to Bidding.

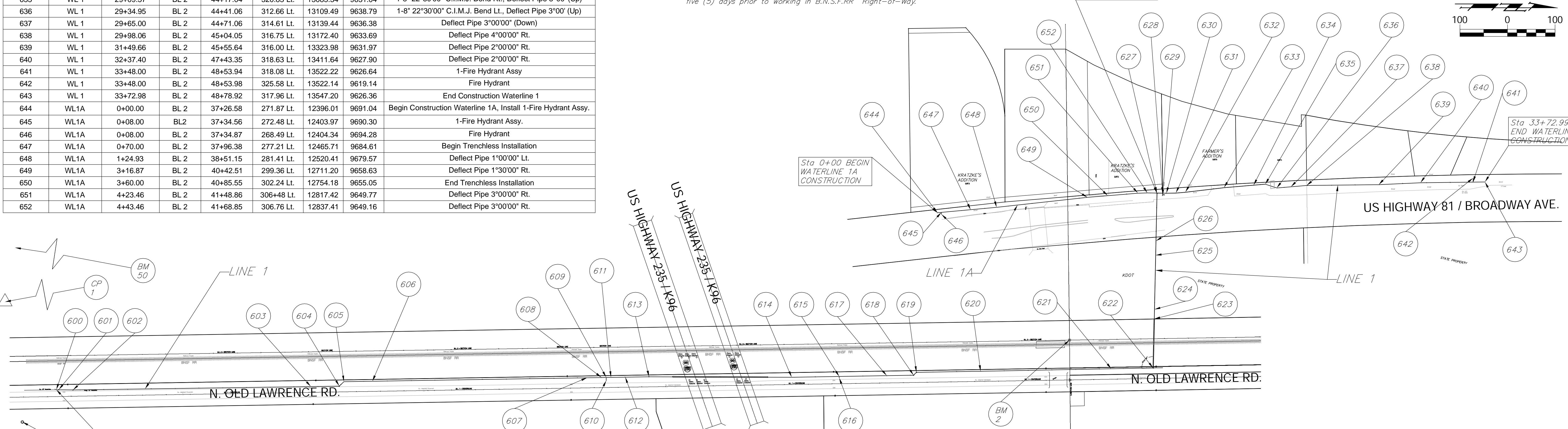
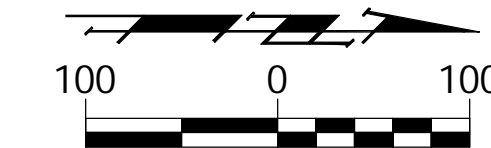
## LIST OF UTILITY COMPANIES

Contractor shall be required to provide notice to Kansas One Call at 687-2470 a minimum of two (2) working days prior to any excavation or work adjacent to utilities.

TYPE	OWNER	CONTACT	TELEPHONE	(ALT)
Locator Service	Kansas One-Call		687-2470	(800) 344-7233
TV	Cox Communications (Cable)	Eva Moore	262-4270	260-7169
Electric	Westar Energy (Wichita)	Shane Price	261-6135	383-8600
Gas	Black Hills Energy	Calvin Briggs	941-1608	941-1607
Gas	Kansas Gas Service	Jim Coe	832-3126	
Pipeline	Quest	Joe Fowler	(913) 764-6015	(800) 467-2751
Pipeline	Conoco Phillips	Rusty Lee	838-3411	619-8478
Telephone	AT&T Telephone	Jason Edwards	268-2008	268-2102
Water	Wichita Water Department	Greg Lolley	268-4555	268-4908
Storm Water Sewer	Wichita SWS Maintenance	Doug Arvidson	268-4095	
Sanitary Sewer	Wichita Sewer Maintenance	Calvin Fugit	268-4024	262-6000
Railroad	B.N.S.F. RR	Nathan Anderson	(316) 284-3479	(620) 202-0925
Highway	KDOT	Ben Koerner	744-1271	

## PROJECT BENCHMARKS

- BM # 2 Section Corner Monument - 1/4 Corner Iron Pin  
 Located: 83.7 feet west of centerline of Old Lawrence Road  
 8.7 feet west of centerline of BNSF railroad  
 6.0 feet north of Railroad MP 207.2  
 Elevation = 1324.06 NAVD 88 Datum
- BM # 50 Broadway & 37th Street North  
 City of Wichita Benchmark  
 Located: 36 feet west of centerline  
 29 feet north of centerline  
 11.4 feet SSE of concrete power pole  
 4.3 feet SSW of center of traffic signal MH  
 Elevation = 1322.95 NAVD 88 Datum
- BM # 100 Old Lawrence Road & Middle Branch Chisholm Creek  
 City of Wichita Benchmark  
 Located: East of Broadway at approximately 3800 block north  
 468.8 29 feet north of centerline  
 Located in northeast wingwall  
 468.8 29 feet north of centerline  
 124.90 feet East of rail  
 42.60 feet East of east edge of asphalt road  
 Elevation = 1332.70 NAVD 88 Datum



## PROJECT AREA