

SCALE: 1" = 150'

LEGEND

- EXISTING WATER MAIN
- PROPOSED WATER MAIN
- EXISTING WATER VALVE
- PROPOSED WATER VALVE
- PROPOSED AIR VALVE VAULT
- EXISTING FIRE HYDRANT
- PROPOSED HYDRANT
- PROPOSED SANITARY SEWER
- PROPOSED SANITARY SEWER w/MANHOLE
- EXISTING SANITARY SEWER
- EXISTING SANITARY SEWER w/MANHOLE

MISCELLANEOUS ADJUSTMENTS,  
See Sheets No. W26 thru 27

GENERAL NOTES

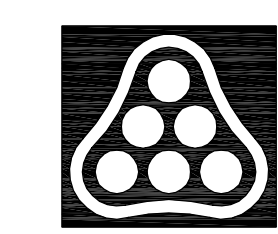
1. ALL ELEVATIONS SHOWN ARE NGVD 29 DATUM.
2. CONTRACTOR WILL BE REQUIRED TO PROVIDE A MINIMUM ADVANCE NOTICE OF FORTY-EIGHT (48) HOURS TO UTILITY COMPANIES PRIOR TO STARTING ANY EXCAVATION AS FOLLOWS:  
  

KANSAS ONE-CALL	687-2470
THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:	
COX COMMUNICATIONS	262-0661
KANSAS GAS SERVICE	832-3169
WESTAR ENERGY	383-8600
AQUILA NETWORK	1(800)-527-0357
AT&T	1(800)-870-8390
CITY OF WICHITA WATER DEPARTMENT	262-6000
CITY OF WICHITA SEWER MAINTENANCE	262-6000
3. ALL WATER MAINS AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF WICHITA, KANSAS STANDARD SPECIFICATIONS, AND PROJECT SUPPLEMENTAL SPECIFICATIONS.
4. THE CONTRACTOR SHALL NOT START WORK ON THE PROJECT UNTIL THE PROJECT INSPECTOR IS ASSIGNED TO THE PROJECT AND IS PRESENT ON THE SITE. ANY WORK DONE WITHOUT INSPECTION WILL BE REQUIRED TO BE UNCOVERED FOR INSPECTION.
5. OPENING AND CLOSING WATER VALVES SHALL BE DONE SLOWLY TO PREVENT DAMAGE TO THE WATER DISTRIBUTION SYSTEM FROM WATER HAMMER. ALL VALVES CLOSED BY THE CONTRACTOR MUST BE REOPENED AS NEW CONSTRUCTION PERMITS. PROJECT INSPECTOR MUST ASCERTAIN THAT ANY VALVE CLOSED BY THE CONTRACTOR IS REOPENED. CONTRACTOR WILL BE PERMITTED TO OPERATE WATER VALVES ONLY WHEN THE PROJECT INSPECTOR ASSIGNED TO THE PROJECT IS PRESENT.
6. EACH BIDDER SHALL VISIT THE SITE OF THE PROJECT BEFORE SUBMITTING THE PROPOSAL FOR THIS WORK SO THAT HE WILL BE FULLY INFORMED OF THE EXISTING FIELD CONDITIONS AND THE OBSTACLES WHICH MIGHT BE ENCOUNTERED. UPON AWARD OF THE CONTRACT THE CONTRACTOR WILL NOT BE GRANTED ANY ADDITIONAL COMPENSATION WITH REGARDS TO TIME AND MONEY FOR CONDITIONS THAT MAY HAVE BEEN EVALUATED DURING ANY INSPECTION OF THE SITE.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONTINUOUS FLOW OF SEWAGE THROUGH CONSTRUCTION. FOR SANITARY SEWER THAT WILL BE AFFECTED BY CONSTRUCTION, COST OF MAINTAINING FLOW OF SEWAGE THROUGH CONSTRUCTION WILL NOT BE PAID FOR DIRECTLY AND THIS COST SHALL BE CONSIDERED AS SUBSIDIARY TO THE OTHER RELATED ITEMS OF WORK.
8. THE TEST PRESSURE FOR THE NEWLY CONSTRUCTED WATERLINE SHALL BE 150 PSI, AND ALL FITTINGS, PIPE, AND APPURTENANCES INSTALLED SHALL HAVE A PRESSURE RATING OF 150 PSI (MIN.). ALL WATERLINES SHALL BE TESTED AND APPROVED PRIOR TO THE PLACEMENT OF ANY NEW PAVEMENT. SEE PAVEMENT AND DRAINAGE PLANS AND PROJECT SPECIAL PROVISIONS FOR PAVEMENT SCHEDULE AND SEQUENCE OF CONSTRUCTION.
9. UNLESS NOTED OTHERWISE IN THE PLANS, THE CONTRACTOR MAY USE RESTRAINED 48" DUCTILE IRON OR RESTRAINED 48" PCCP (PRESTRESSED CONCRETE CYLINDER PIPE) FOR THE WATERLINE AS SPECIFIED IN THE PROJECT SPECIAL PROVISIONS.
10. THE CONTRACTOR SHALL RESTRAIN ALL BENDS, VALVES, AND TEES THROUGH THE USE OF A RESTRAINED JOINT PIPE AS SPECIFIED, AT THE MINIMUM LENGTHS AS SHOWN IN THE PLANS. OTHER METHODS OF RESTRAINT MAY BE SUBMITTED IN WRITING TO THE DESIGN ENGINEER FOR APPROVAL AT LEAST 7 DAYS PRIOR TO BIDDING. RESTRAINED JOINT PIPE SHALL BE INCLUDED IN THE PRICE BID FOR PIPE IN PLACE.
11. PIPE DEFLECTIONS SHOWN IN THE PLANS MAY EXCEED THE MAXIMUM PIPE DEFLECTIONS ALLOWABLE PER THE PIPE MANUFACTURER'S RECOMMENDATIONS. THESE PIPE DEFLECTIONS MAY BE ACCOMPLISHED THROUGH MORE THAN ONE JOINT. PIPE DEFLECTIONS AT A JOINT SHALL NOT EXCEED THE MANUFACTURER'S RECOMMENDATIONS.
12. ALL FITTINGS INSTALLED SHALL NOT BE BACKFILLED UNTIL THE FIELD ENGINEER ESTABLISHES TIES TO ESTABLISHED LANDMARKS.
13. ALL COUPLINGS INSTALLED PER THE DETAIL SHEETS SHALL INCLUDE A 1/2" GAP BETWEEN THE PLAIN END PIPES BEING JOINED.
14. THE CONTRACTOR SHALL PROVIDE CORROSION CONTROL ITEMS AS OUTLINED IN THE SUPPLEMENTAL SPECIFICATIONS FOR EACH TYPE OF PIPE BID. ALL PIPE CONNECTIONS MADE WITH PIPING OF DISSIMILAR MATERIALS SHALL INCLUDE DIELECTRIC ISOLATION. ALL CORROSION CONTROL MEASURES REQUIRED SHALL BE INCLUDED IN THE PRICE BID FOR PIPE.
15. THE CONTRACTOR SHALL PROVIDE THREADED RODS AND COLLARS TO ANCHOR VALVES AND SLEEVES TO PROPOSED RESTRAINED JOINT PIPING, AS SHOWN IN THE PLANS. THREADED RODS AND COLLARS SHALL BE HIGH STRENGTH, HEAT TREATED CORTEN STEEL AND SHALL CONFORM TO ASTM A242, TYPE 2, AS MANUFACTURED BY STAR NATIONAL PRODUCTS OR APPROVED EQUAL. THE NUMBER OF TIEBOLT RESTRAINERS AND FASTENING METHOD SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. TIE BOLTS SHALL BE DESIGNED FOR A TOTAL DESIGN PRESSURE OF 200 PSI.
16. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL MANHOLE COVERS.
17. MANHOLES SHALL BE TYPE "P" MANHOLES. MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND THE STANDARD DETAIL DRAWINGS.
18. ALL WATERLINE AND SANITARY SEWER EXCAVATION WITHIN EXISTING OR PROPOSED PAVEMENT SECTIONS SHALL BE SAND FILLED AND FLUSHED (JETTED AND VIBRATED) WITH WATER PER THE REQUIREMENTS LISTED IN THE STANDARD SPECIFICATIONS FOR THE CITY OF WICHITA, UNLESS FLOWABLE FILL OR OTHER IMPROVED BACKFILL MATERIAL IS OTHERWISE SPECIFIED. THE SAND FILL SHALL BE BROUGHT UP UNIFORMLY TO AN ELEVATION 12 INCHES ABOVE THE TOP OF THE PIPE OR 2 FEET BELOW THE BOTTOM OF PROPOSED PAVEMENT, WHICHEVER IS HIGHER. ALL COSTS FOR SAND FILLING AND FLUSHING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR "SAND FILL, FLUSH AND VIBRATE". THIS ITEM SHALL BE PAID FOR AT THE UNIT PRICE BID PER LINEAR FOOT OF TRENCH FILLED REGARDLESS OF TRENCH DEPTH AND/OR PIPE SIZES UNLESS INDICATED OTHERWISE BY PLANS OR CONTRACT. THE ESTIMATED LENGTH OF WATERLINE AND SANITARY SEWER TRENCH TO BE SAND FILLED AND FLUSHED FOR THIS PROJECT IS:  
  
SAND FILL, FLUSH AND VIBRATE = 4,636 L.F. (WATERLINE)  
SAND FILL, FLUSH AND VIBRATE = 102 L.F. (SANITARY SEWER)
19. WHEN REMOVING WATER AND SANITARY SEWER LINES AS SHOWN IN THE PLANS, THE CONTRACTOR SHALL CAP OR PLUG THE ENDS OF THE PIPES REMAINING IN PLACE PRIOR TO REMOVAL. ALL COSTS FOR THE REMOVAL OF EXISTING WATER AND SANITARY SEWER LINES AS PART OF CONSTRUCTION SHALL BE CONSIDERED SUBSIDIARY TO THE LUMP SUM PRICE BID FOR "SITE CLEARING" FOR THE RESPECTIVE WATERLINE AND SANITARY SEWER PROJECTS.
20. IT SHOULD BE NOTED THAT OTHER BURIED LINES AND CABLE MAY EXIST WHICH ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION DURING TRENCHING OPERATIONS TO AVOID DAMAGING THESE LINES AND CABLES. ANY UTILITIES DAMAGED SHALL BE REPLACED OR REPAIRED IMMEDIATELY AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL PROTECT FROM DAMAGE AND SUPPORT EXISTING UTILITIES THROUGH CONSTRUCTION AS APPROVED BY THE UTILITY OWNER AND THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
21. WHERE THE IMPROVEMENTS CROSS EXISTING PUBLIC OR PRIVATE UTILITIES WHICH ARE NOT TO BE ADJUSTED BY OTHERS, THE CONTRACTOR SHALL PROVIDE THE MATERIAL AND MEANS TO PROTECT AND SUPPORT SAID UTILITIES DURING CONSTRUCTION TO THE SATISFACTION OF THE ENGINEER.
22. THE CONTRACTOR SHALL MAINTAIN WATER DISTRIBUTION DURING ALL PHASES OF CONSTRUCTION. REQUESTS FOR SHORT-TERM WATER SERVICE INTERRUPTIONS SHALL BE MADE AT LEAST 72 HOURS IN ADVANCE TO THE CITY OF WICHITA AND WILL BE SUBJECT TO APPROVAL BY THE ENGINEER. SUBJECT TO APPROVAL, THE CONTRACTOR SHALL NOTIFY ALL AFFECTED WATER CUSTOMERS OF PENDING CONSTRUCTION AT LEAST 48 HOURS IN ADVANCE. THE CONTRACTOR SHALL COORDINATE THE SHUT DOWN AND THE ISOLATION OF EXISTING WATER MAINS FOR CONNECTIONS TO THE NEW MAIN WITH THE WICHITA WATER DEPARTMENT.
23. EROSION CONTROL (BMP'S) EROSION CONTROL MEASURES FOR THE PROJECT WILL BE PERFORMED BY THE PAVING CONTRACTORS. THE CONTRACTOR SHALL COORDINATE ALL ACTIVITIES WITH THE PAVING CONTRACTOR AND ENSURE THAT EROSION PROTECTION MEASURES ARE IN PLACE PRIOR TO EXCAVATION FOR INSTALLATION OF THE WATERLINE/SANITARY SEWER. SEE PAVING/SWD PLANS FOR ADDITIONAL INFORMATION.
24. THE CONTRACTOR SHALL ADHERE TO ALL APPLICABLE REQUIREMENTS FOR NPDES STORM WATER POLLUTION PREVENTION PLAN AND KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT STORM WATER PERMIT. IF REQUESTED, THE CONTRACTOR SHALL SUBMIT A STORM WATER POLLUTION PREVENTION PLAN TO THE CITY OF WICHITA, STORM WATER MANAGEMENT OFFICE PRIOR TO CONSTRUCTION.
25. EXISTING DRAINAGE AND OTHER UTILITIES SHOWN TO BE ABANDONED BY THE PAVING CONTRACTOR SHALL BE REMOVED AS REQUIRED FOR CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. ALL ITEMS REMOVED SHALL BE COORDINATED WITH THE PAVING CONTRACTOR TO ENSURE THAT DRAINAGE IS BEING MAINTAINED THROUGHOUT THE PROJECT. ALL WORK ASSOCIATED WITH THIS ITEM SHALL BE INCLUDED IN THE LUMP SUM BID ITEM "SITE CLEARING".
26. ALL WORK WITHIN THE BNSF RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE PIPELINE LICENSE AGREEMENT BETWEEN THE BURLINGTON NORTHERN AND SANTA FE RAILWAY COMPANY AND THE CITY OF WICHITA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE ROAD MASTER PRIOR TO PERFORMING ANY CONSTRUCTION ACTIVITIES WITHIN THE BNSF RIGHT-OF-WAY AS REQUIRED BY THE LICENSE AGREEMENT. ALL COSTS ASSOCIATED WITH THE USE OF FLAGMEN, IF REQUIRED, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL OBTAIN A COPY OF THE LICENSE AGREEMENT BY CONTACTING:  
  
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.  
303 S. TOPEKA  
WICHITA, KS 67201  
(316)262-2691  
MIKE KELSEY OR ERIC BROCE

SEE SHEET NO. W3 FOR  
HORIZONTAL & VERTICAL CONTROL

No.	Revision	By	Date
SOUTHEAST 48" WATERLINE - PHASE 1B			
<b>KEY MAP AND GENERAL NOTES</b>			
JAMES L. ARMOUR, P.E. - CITY ENGINEER CITY OF WICHITA PROJECT NO. 448-90182			
<b>Professional Engineering Consultants, P.A.</b> 303 S. TOPEKA • WICHITA, KANSAS 67202 316-262-2691 • FAX 316-262-3003			
Designed by	MDK	Job No.	35-05787-001-42
Drawn by	CSL	Date	March 2006
			Sht. W2 of 31

NOTE: WATERLINE VALVES TO BE OPERATED BY CONTRACTOR ONLY IF WATER DEPARTMENT REPRESENTATIVE IS ON SITE.



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 Plot Scale 1:150 02-27-2007 11:31:21 AM by BEJ  
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