GENERAL NOTES

The Contractor shall erect and maintain traffic control devices in accordance with the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD) unless specifically directed by the Engineer.

Utility service lines, poles, valve boxes, gas meters and etcetera are to be adjusted as necessary by others prior to construction unless the plans specifically call for their adjustment by the Contractor or unless the plans specifically identify a utility to be adjusted by its owner during construction. Existing utilities and their location, as shown on the plans, represent the best information obtainable for design. The Contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.

The Contractor will be required to provide a minimum advance notice of forty-eight (48) hours to utility companies prior to excavation or working adjacent to utilities.

The following numbers are provided:

Kansas One-Call	687-2470
Cox Communications	262-4270
Kansas Gas Service	831-5615
Kansas Gas Service Emergency	1-888-482-4950
Westar Energy	261-6251
AT&T	628-2245
City of Wichita Water Department	268-4940
City of Wichita Sewer Maintenance	268-4924
Nustar Pipeline	721-7073

A saw cut the full depth of the existing pavement thickness shall be provided at locations where proposed construction abuts an existing surface course of pavement where the existing pavement is to be removed. Sawed joint to facilitate removal within six (6) feet of existing joints will not be permitted and for such instances the limits of sidewalk removal shall extend to the existing joint. Such saw cuts will not be paid for directly and this cost shall be considered INCIDENTAL to the removal of the surface or pavement.

All project waste including any trees, milled asphalt, rubble from miscellaneous structures, abandoned pipes, excess excavation and etc. shall be disposed of on sites to be 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. 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 archaeological investigations unless buried in a previously approved borrow location.

Trees and shrubs in public right-of-way which are in direct conflict with proposed new construction shall be removed and disposed of by the Contractor with the Engineer's approval. Trees and shrubs which are not in direct conflict with proposed new construction shall be saved and protected from damage. Trees larger than 15" dia. as measured 24" above the ground level shall be bid as "Large Tree Removal", trees less than 15" shall be bid as "Small Tree Removal".

The Contractor shall be responsible for preserving shown property irons. The Contractor will be required to re-establish any shown property irons or quarter section corners which are damaged or destroyed by his construction operations. Such irons shall be re-established by a licensed land surveyor in accordance with state laws. This work will not be paid for directly, but shall be considered SUBSIDIARY to other pay items of work in the contract.

The Water Department shall field locate water valves one time during construction when requested by the Contractor. It shall be the Contractor's responsibility to preserve such field locations during the construction process. Water valves, water boxes or fire hydrants damaged during construction shall be repaired by the Contractor at his own expense.

Where water valves are shown to be adjusted, the work shall include only the adjustment of the water box to the finished grade as shown or as directed by the Engineer. At locations where available adjustment is insufficient to match design grade, the Contractor shall notify the Wichita Water Department at 268-4908 and obtain or coordinate placement of a new valve box capable of meeting final grade.

Specifically work shall occur using MUTCD typical application(s) 1, 3, 6, 13, 22, 23, 24, 28, 29 & 30. Other typical MUTCD applications or alternate traffic control may be approved by the Engineer. The Contractor shall maintain access to adjacent properties at all times.

The Contractor shall submit detailed traffic control plans to the Engineer for approval.

To the greatest extent possible, the work zone will be re-opened to traffic in the evenings and whenever construction activities are not taking place.

Conical delineators shall be used in all tapers and tangents along work areas.

Contractor shall maintain the site in a fashion safe for school age children between 7:00 A.M. and 8:30 A.M. & 2:30 P.M. and 3:30 P.M. on school days. The Contractor will not receive additional compensation for this work, it is considered SUBSIDIARY to other items of the contract.

Construction of temporary pavement required for business access during construction shall be INCLUDED in the lump sum bid item "TRAFFIC CONTROL" and shall include all grading, fill, compaction, soil scarification, removal, disposal and etc. necessary for business access.

The Contractor shall give all property owners and/or tenants of developed property abutting the project limits or whose access will be changed a minimum of 10 days advance notice prior to the start of construction. The Contractor shall also give 3 days advance notice to the same property owners when major changes in traffic control are planned.

The Contractor shall comply with all applicable safety regulations.

The Contractor is made aware that he will be working in close proximity of existing utilities. Any conflicts with such utilities shall be reported to the Engineer. The Contractor shall coordinate the construction of this project with the relocation of any existing utilities by the utility companies.

Areas over-excavated in pavement removal shall be filled to subgrade elevation and compacted to 95% Std. Density. This work shall be considered SUBSIDIARY to other items of the contract.

Prior to bidding the project, each bidder shall visit the site and satisfy himself of surface and subsurface conditions. Each bidder shall also fully inform himself as to the extent of Site Clearing and Site Restoration to be performed.

The lump sum Bid Item "Site Clearing" shall INCLUDE all costs for the removal of signs, foundations, light pole bases, abandoned water meters, manholes, pole bases, fences, traffic service boxes, planter boxes, trees, shrubs, stumps, traffic signal appurtenances, sprinkler heads, irrigation control devices, drain pipes (<10"), aprons, flumes, valve boxes, pavement markings, guard posts, wheel chair ramps, concrete barriers, monitoring wells, abandoned pipes, parking blocks, and any other item(s) slated for removal for which a pay item is not provided for in the proposal.

The Contractor shall be responsible for implementing erosion control methods during construction to prevent unnecessary silt/sediment discharge through downstream properties and/or storm sewer systems. The Contractor shall install and maintain erosion controls per plan approved by the Engineer.

The Contractor shall be aware that some gas lines within the project corridor may be abandoned in place as new lines are installed. The Contractor shall be responsible for contacting the appropriate owners to determine the status of said lines.

All pavement markings shall be multi-component. Pavement markings shall be installed per manufacture's recommendations. Full traffic may not be restored (and substantial project completion achieved) until all pavement markings are in place. Should construction timing be such that restoration of traffic becomes necessary during temperatures prohibiting the installation of multi-component markings, the contractor shall install and maintain temporary markings until such time that multi-component markings may be properly installed. Except for the material requirement, temporary pavement markings shall be placed equivalent, in every manner (i.e. dimension, frequency, spacing, etc.), to the permanent marking layout. The cost for temporary pavement markings will not be paid for directly, but shall be considered SUBSIDIARY to the bid item for "Pavement Markings".

The Contractor shall avoid tearing or ripping all tree roots; especially those over 4" in diameter. A clean-cut root will callous over better so it is preferred that the use of a saw grinder or axe be used on roots needing removal. If more than 1/3 of the tree roots are removed or damaged, or if more than 1/3 of the ground area is removed or excavated, then please contact Forestry for inspection. If it is apparent that work around the tree has taken place in recent years and more work involving the removal of roots is necessary, then ask for inspection by forestry staff. If removal of roots larger than 4" diameter is necessary, ask for a forestry inspection. Notification should be done prior to root removal, however in the event that the root is removed prior to inspection, leave the root on site, and leave the hole open for the forestry staff to view.

The traffic signal system shall be complete and the contractor shall furnish and install all equipment necessary for the satisfactory operation of the traffic signal whether specifically mentioned or not.

All stations and offsets are from Baseline. Baseline is equal to the Section Line.

Any earthwork (Compaction of Earthwork, Rock Excavation, Contractor Furnished Excavation or Site Excavation) necessary to complete this project shall be SUBSIDIARY to the bid items for "Site Clearing".

PROJECT SURVEY CONTROL & BENCHMARKS

NW Corner NW 1/4 Sec. 2, T27S, R1E
N 1,704,503.743 E 1,659,627.637
1. Found IRF Cap

SW Corner SW 1/4 Sec. 2, T27S, R1E
N 1,701,761.595 E 1,659,636.099
1. Found 1" Pipe

CP101
N 1,703,197.460 E 1,659,592.600
Set 1/2"x24" Iron Rod
1. Top Center Telephone Pedestal — 60.30' S
2. Back of Curb — 14.20' E
3. East Edge of Sidewalk — 2.60' W
4. Top Center Edge of Guy Anchor — 45.70' NNE
5. ℄ Hillside Street — 39.40' E
6. ℄ 27th Street — 101.50' S

CP100
N 1,702,856.630 E 1,659,713.480
Set 1/2"x24" Iron Rod
1. South Edge Asphalt Church Parking — 12.70' N
2. Southwest Corner Metal Base for Light Pole — 68.00' NE
3. Southeast Corner Concrete Entrance — 42.37' NW
4. ℄ Southwest Corner Post Chain Link Fence — 95.35' ENE
5. ℄ Hillside Street — 80.80' W

BM #100
"CP" N. Edge Concrete Base for Church Sign on Southeast Corner of 27th Street & Hillside Street
(N 1,703,039.360 E 1,659,684.780) (Elev.=1355.50)

BM #101
C.O.W Cap on NE Corner Hubguard North End East Side Hillside Street
±269.00' S. of the NW Corner NW 1/4 Sec. 2, T27S, R1E
(N 1,704,235.000 E 1,659,653.060) (Elev.=1342.34)

PROJECT COORDINATE TABLE

POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
100	-	-	1,702,856.63	1,659,713.48	1357.58	CP #100
101	12+04.44	39.07' Lt.	1,703,197.46	1,659,592.60	1350.83	CP #101
102	-	-	1,704,503.74	1,659,627.64	1337.79	NW Corner of Sec. 2, T27S, R1E
103	-	-	1,704,235.00	1,659,653.06	1342.34	BM #101
104	-	-	1,701,761.60	1,659,636.10	1363.48	SW Corner of Sec. 2, T27S, R1E
105	10+46.06	52.62' Rt.	1,703,039.36	1,659,684.78	1355.50	BM #100
201	10+51.88	46.38' Lt.	1,703,044.88	1,659,585.76	1352.60	SW Corner Curb Return ℄
202	10+51.79	30.85' Lt.	1,703,044.83	1,659,601.29	1351.60	SW Corner Curb Return ℄
203	10+57.34	25.07' Lt.	1,703,050.40	1,659,607.06	1351.24	SW Corner Curb Return ℄
204	10+64.58	24.82' Lt.	1,703,057.64	1,659,607.28	1350.04	SW Corner Curb Return ℄
205	10+78.28	38.26' Lt.	1,703,071.31	1,659,593.79	1351.02	SW Corner Curb Return ℄
206	10+78.21	48.28' Lt.	1,703,0071.21	1,659,588.78	1351.00	SW Corner Curb Return ℄
207	10+53.30	23.88' Rt.	1,703,046.51	1,659,656.01	1351.63	SE Corner Curb Return ℄
208	10+58.97	23.87' Rt.	1,703,052.19	1,659,655.99	1351.59	SE Corner Curb Return ℄
209	10+70.15	27.12' Rt.	1,703,063.38	1,659,659.20	1351.49	SE Corner Curb Return ℄
301	10+65.04	38.06' Lt.	1,703,058.06	1,659,594.04	-	12.5' Radius of SE Cor. of 27th & Hillside St.

QUANTITIES

ITEM	QUANTITY	UNIT
Site Clearing	1	LS
Pavement Marking	1	LS
Traffic Control	1	LS
Traffic Signalization	1	LS
BMP Erosion Control	1	LS
Seeding/Mulching/Fertilizing	0.1	AC
Pavement Removed	24	SY
Sidewalk, Drive, &/or Pkg Lot Removed	16	SY
Concrete Sidewalk 4"	21	SY
Concrete C&G Removed & Replaced	76	LF
Wheelchair Ramp w/ Detectable Warnings	3	EA

TranSystems
245 NORTH WACO
SUITE 222
WICHITA, KANSAS 67202
PHONE: 316-303-3000
FAX: 316-303-0156

CONSULTANTS:

27TH STREET & HILLSIDE STREET
SIGNALIZATION IMPROVEMENTS

CITY OF WICHITA, KANSAS

REVISIONS:

MARK	DATE	DESCRIPTION

PROJ NO: P125130050
SCALE: N.T.S.
DATE: 9/30/2015
DESIGNED BY: TAU
DRAWN BY: TAU
CHECKED BY: SGE

SHEET TITLE:
27TH & HILLSIDE
SIGNALIZATION IMPROVEMENTS
GENERAL NOTES &
QUANTITIES

SHEET NO.
2
SHEET 2 OF 26