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 PLOTTED: Wednesday, November 29, 2017 9:02:19PM

GENERAL NOTES

Unless shown or stated otherwise on these drawings, drawings, materials, and construction shall be in accordance with City of Wichita Standard Specifications and special provisions.

Contractor will be required to provide a minimum advance notice of seventy-two (72) hours to utility companies prior to starting any excavation as follows:

- Kansas One-call 1-800-344-7233
- or local Wichita 687-2470

The Contractor must notify the following in case of an emergency:

- AT&T (telephone) 1-316-246-8464
- City of Wichita Water 1-316-268-4555
- City of Wichita Sewer 1-316-268-4073
- City of Wichita Stormwater 1-316-268-4090
- City of Wichita Traffic 1-316-268-4034
- Cox Communications (cable) 1-888-249-3530
- Kansas Gas Service (gas) 1-888-482-4950
- Westar (electric) 1-800-544-4857
- Phillips 66 (gas) 1-XXX-XXX-XXXX

The Contractor shall be responsible for preserving existing property irons regardless if shown on plans or not. The Contractor will be required to reestablish any property irons which are damaged or destroyed by construction operations. Such irons shall be reestablished at the Contractor's expense by a licensed land surveyor in accordance with state laws.

Construction staking shall be performed by the City of Wichita Public Works Department with exception for the bridge widening at Station 28+78.56. All staking performed by the City of Wichita will be done at no cost to the contractor. The contractor shall coordinate the survey staking with the City of Wichita Public Works Department and give the surveyor 24 hours notice when stakes are required. See Sheet 81 for bridge staking requirements.

Utility service lines, poles, valve boxes, meters, etc... are to be adjusted as necessary by others prior to construction unless the plans specifically call for their adjustment by the contractor. Existing utilities and their location, as shown on the plans, represent the best information obtainable for design. Some utilities have been relocated and may not reflect so on the plans. Location information has been obtained from the various utility companies and is either from company record drawings or company provided field locations. The plan locations shown are not guaranteed. Additional existing utilities may also be encountered. The contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.

The contractor shall adjust water valve boxes as directed by the engineer at the price bid for said adjustments. The water department shall field locate water valves one time during construction when requested by the contractor. It shall be the contractors responsibility to preserve such field locations during the construction process. Water valves or water valve boxes damaged during construction shall be repaired by the contractor at his own expense.

All stationing, radii, pavement widths, offset distances, etc... are measured to the back of the curb and gutter and along the project baseline unless otherwise noted on the plans. Spot elevations on plan sheets are at Back of Full-Height Curb and Gutter flow line. Spot elevations on Intersection Details are as noted.

Rubble from the removal of miscellaneous structures and excess excavation which is to be wasted 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 archeological investigations unless buried in a previously approved borrow location. Millings from the "Mill and Overlay" operation shall become the property of the contractor and disposed of on sites provided by the contractor. These sites shall be approved by the Engineer as to suitability, appearance and site location.

A saw cut of at least one-half the depth of the Existing Surface courses or one-fourth the depth of the existing total pavement thickness shall be provided at locations where proposed construction abuts an Existing Surface or Pavement for which partial removal of that surface or pavement is required. Saw Joint to facilitate removal within three (3) feet of Existing Joints will not be permitted and for such instances the Limits of Removal shall extend to the Existing Joint.

Contractor shall remove and deliver to 1801 S. McLean all traffic signal components, regulatory signs, street name signs, manhole frames and lids, removed hydrants, meters, etc., noted for removal during construction. Contractor shall be responsible for the installation of new signs. All associated costs to transport the salvaged material will be Subsidiary to the bid item "Transportation of Salvaged Material".

Unless otherwise shown on the plans, all asphaltic concrete pavement placed on city projects shall use PG 64-22 asphalt cement for the full thickness on non-arterial streets and private pavements, with BC-1 and SC-1 mix designs for base and surface asphalt, respectively. Arterial streets shall utilize a BM-2 mix design with PG 64-22 asphalt cement for the base and PG 70-28 for surface. Mill and overlay projects using BM1-B surface mixes shall also use PG 70-28 graded oil. The contractor may substitute an alternate grade of asphalt that complies with or exceeds the upper and lower grade designations for the grade specified. Such substitutions require advanced approval by the Engineer and any additional cost will be the responsibility of the contractor. All temporary asphalt pavement on the project shall be 6" asphalt meeting the specifications for City of Wichita BC-1 mix.

Bituminous Surface Course shall be placed with a laydown machine having automatic controls for line and grade.

A tack coat of emulsified Asphalt (SC-1H or CSS-1H) shall be applied at an approximate rate of 0.05 gal. per square yard between each lift of Bituminous Material.

Construction Joints in each lift shall be staggered a minimum distance of 12 inches from joints in preceding lifts and placed so that a joint will be constructed on the centerline of the top lift.

Crushed Rock Base is to be compacted and smoothed with a steel faced roller prior to placement of pavement. Tack coat will not be applied to Rock Base.

Inlet Hook-ups shall be constructed as indicated on the inlet detail drawings and shall be Bid as "Inlet Hookup". No distinction will be made between Hook-ups based on the size and type of inlet.

All areas disturbed by construction that are adjacent to developed properties shall be restored with sod to match existing turf type. Restoration of disturbed areas shall include, but not be limited to, top soil preparation and sodding. All Sodding work shall be in accordance with City Standard Specifications and the City Administrative Regulation No. AR6.5, which governs cleanup and restoration or replacement following construction. The "Summary of Quantities" shows the estimated area of Sodding, with a bid item for the same. When the weather/season prevents the installation of Sod, the Contractor shall be responsible for installing Erosion Control Blanket (Curlex I, or approved equal) at the Back of Curb (8' wide minimum). All costs for Erosion Mat installation shall be Subsidiary to "Site Restoration". See Sections 902.7 and 902.8 of the standard specifications.

The contractor shall reseed all undeveloped areas disturbed by construction with a mixture of Ryegrass (applied at a rate of 200 lbs. per acre) and Buffalo grass, depending on the soil conditions (applied per Standard Specifications). Pure nitrogen fertilizer shall also be applied at a rate of 1.5 lbs. per thousand square feet. The seed shall be watered with a deep soaking every two (2) weeks during dry periods until a mature stand of grass is obtained. The "Summary of Quantities" shows the estimated area of disturbed area to be seeded, with a bid item for the same. The permanent seeding may be omitted only if sodding is required. The contractor shall be responsible for installing Erosion Control Blanket (Curlex I, or approved equal) at the back of curb, to and including the limits of all seeded areas. All costs for this work shall be subsidary to "seeding."

See the Roadside Improvement Plans for delineation of seeding and sodding areas and for stream channel seed mix.

All business signs, fences, posts and landscaping features in conflict with the new construction will be relocated by others prior to construction. Upon the start of construction, all items that remain within the construction limits shall be removed and disposed of by the contractor unless otherwise noted.

Select Soil (Topsoil) shall be placed at a minimum depth of 6 inches or as specified on the drawings. The finished grade indicates the surface elevation after the prescribed select soil (topsoil) thickness has been placed. Where offsite select soil is needed, it shall be fertile natural topsoil, typical of the locality, obtained from well drained areas. Stockpiled topsoil may be used. It shall be without admixture of subsoil or slag and shall be free of stones, lumps, sticks, plants, or their roots, toxic substances or other extraneous matter that may be harmful to plant growth or would interfere with future maintenance. Topsoil shall be approved by the Project Engineer prior to placement. Select soil is subsidary to "Fill, compacted (95% density)".

All gravel or other similar debris larger than 1/2 inch in diameter shall be raked up and removed during final grade preparation.

New storm sewer installed under proposed pavements shall be protected from construction traffic during construction operations.

Proposed curbs matching existing curbs shall be altered to match the shape and dimensions of the existing curb. Positive drainage shall be maintained through such transitions.

Pavement cross-slope and width transitions will be required where proposed pavement matches existing pavement. Transitions shall be made over an adequate length to prevent sumps from being created in gutters.

Trees to be removed are marked ~~X~~ or are noted on the plan. Tree removal shall be paid for as "Tree Removal, Large" or "Tree Removal, Small". Removal of tree rows shall be paid for as "Tree Row Removed" and will be measured by the linear foot. Removal of mass tree areas, brush, shrubs and other vegetative debris shall be Subsidiary to "Site Cleaning" and will be marked on the plans. Contractor is responsible for confirming and delegating tree removal areas prior to executing removal.

Trees and tree row removal between Sta. 37+50 and Sta. 50+75 on the west side of 127th will require caution due to the Phillips 66 gas line adjacent to the trees. Trees shall be removed above ground surface and the stumps ground to a minimum depth of one foot below the surface. A Phillips 66 representative must be present during tree removal operations.

All backfill for storm sewer trenches shall be in accordance with the City of Wichita's standard specifications. Backfill for storm sewer under existing or proposed pavement, including lines running parallel and adjacent to the back of curb, shall be jetted and vibrated sand. The sand fill shall be brought up uniformly to an elevation two feet below the bottom of the existing or proposed pavement (12 inches above the top of pipe shall be the minimum). Cost for this backfill shall be paid on a linear foot basis as "Fill, Sand (Flushed & Vibrated)".

All connections between existing Storm Sewer and Storm Sewer Structures to proposed Storm Sewer and Storm Sewer Structures shall be Subsidiary to the cost of installation of the new Storm Sewer and/or Structure.

The bid item "Traffic Signalization" shall include all labor, equipment and materials to install two separate solar panel pedestal signals with concrete bases in the locations noted in the plans. Both signals shall be full functioning including signs, solar engines, lights, etc. "Traffic Signalization" will be bid lump sum.

"Mailbox, Removed and Reset" will consist of temporary relocating the mailbox as required to maintain mail service during construction and permanently reinstalling the mailbox at an Engineer-approved location after construction. In no instance shall mail service be disrupted.

Epoxy coated reinforcing steel shall be used in the bridge, approach slabs, moment slab, and all rails. Black reinforcing steel shall be used in the retaining wall and box culverts. Welded wire fabric is not required to be epoxy coated. See the various structural details for additional information.

The bid price for "Concrete Safety Barrier (Temporary)" shall include providing the barrier and include the cost of multiple installations and removals as necessary for construction. Refer to the traffic control plans for the proper handling of traffic during construction. The quantity of barrier noted in the recapitulation represents the maximum amount of barrier that will be needed for the set-up requiring the most barrier. Not all set-ups will necessarily require this amount of barrier.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0615-01	2017	2	183



UTILITY NOTES:

The Contractor is responsible for the support of Existing Water and Sanitary Sewer lines during utility trenching operations.

Contractor shall limit the extent of trench open overnight and weekends to less than 50 feet.

Opening and closing of water valves shall be done slowly to prevent damage to the water distributions system from water hammer. All valves 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 water valves only when the project inspector assigned to the project is present.

The contractor shall lay a tracer wire and set test stations along all water pipe installed in accordance with city specifications and tracer wire detail on detail sheet 62, cost is subsidiary to pipe installation.

The contractor shall provide materials for temporary blowoff of waterlines. Connections to the existing waterline(s) shall be made with clean, swabbed pipe and flushed upon completion of tie-ins.

Deflections at pipe joint or couplings shall not exceed the pipe manufacturer's recommended maximum.

Any extension greater than one length of pipe shall require testing.

Any existing joint exposed during excavation shall be replaced if within four feet of proposed joint.

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.

All water line installations shall utilize restrained joint pipe in place of thrust blocks. Thrust blocks will not be permitted. The contractor is responsible for determining the required length and location of restrained joint fittings to provide adequate thrust restraint.

Existing water line removals have been estimated and are noted in the Removal table on Sheet 112. Water line removals shall be approved by the engineer prior to executing removals.

Work required for the bid item "MH Adjusted" shall include adjusting the elevation of the manhole ring and lid to match the final plan grade in accordance with the City's standard specifications. No adjustment in bid price will be made for manhole adjustments regardless of manhole type, size or ownership.

Work required for the bid item "MH Adjusted, Special" and "MH Reconstructed" shall be as indicated on the paving plan sheets.

The bid item "Water Meter Adjusted" will involve adjusting the existing box, ring and lid to match the final surrounding grade.

The bid item "Water Meter Relocated" will involve relocating the existing meter, box, ring and lid as near to the existing meter as practical. The station and offset noted in the Utility Adjustment table are to the existing meter. The work will include reconnecting the meter to the existing service line using a Sharkbite connector where appropriate between the new street curb and the relocated meter.

New valves installed with the water line installations will likely need adjusting in later phases of the project. These adjustments will be paid for separately.

PROJECT SURVEY CONTROL:

1) The Project Horizontal Datum is based on the NAD83, Kansas State Plane Coordinate System, South Zone, (US Survey Feet Definition), with a Combined Adjustment Factor (CAF) of 1.000120014. All coordinate and dimensions shown on these plans are modified to Ground values.

The following equations can be used for conversion:

Ground Coordinates to State Plane Coordinates = Ground x 1/CAF
 State Plane Coordinates to Ground Coordinates = State Plane x CAF

2) The Vertical Datum used is NAVD88.

UTILITIES

- UGE - Westar
- OHE - Westar
- G - Kansas Gas Service
- W - City of Wichita Water
- UGT - AT&T
- ATT - AT&T
- TV - Cox Communications
- SS - City of Wichita Sanitary Sewer
- G(P66) - Phillips 66 Gas

STREET IMPROVEMENTS FOR
127TH STREET EAST
 FROM 13TH STREET NORTH TO 21ST STREET NORTH

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GENERAL NOTES

PROJECT NO.	472-85158	
DATE	11/29/17	
SCALE	NTS	
DESIGNED	DRAWN	CHECKED
JRA	LES	JRA
NO.	REVISION	DATE

SHEET NO.
 2 OF 183