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.

The plans are based on a field survey conducted prior to design and represent existing conditions at the time. Conditions at the site may vary from these initial surveyed conditions. Contractor shall verify existing site conditions prior to construction.

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)	1–800–870–8390
Cox Communications (cable)	262–0661
Westar (electric)	383–8600
Kansas Gas Service (gas)	1–888–482–4950
City of Wichita Water & Sewer Maint.	262–6000
Zayo Group	847–7970

The Contractor shall be responsible for preserving existing property irons shown on plans. The Contractor will be required to reestablish any shown property irons which are damaged or destroyed by his 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. 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.

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 subsidiary to "seeding."

See the Roadside Improvement Plans for delineation of seeding and sodding areas.

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 subsidiary to "fill, compacted (95% density)".

All gravel or other similar debris larger that ½ 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 ⊗ 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 Clearing" and will be called out on the plans.

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)".

Prior to Installation, Contractor shall verify whether Manholes are shallow or standard.

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.

TREE PRESERVATION:
Existing trees to be saved are an important asset to this project. Preserve each tree not noted for removal as directed in these plans & notes.

Equipment and construction materials shall remain out of and away from tree driplines so as to not compact the root zone or damage the tree. Chemical spill damage shall be prevented by filling gas tanks, cleaning tools & repairing equipment well outside tree protected root zones. Concrete mortar shall be mixed on a thick plastic tarp. Mixing trucks shall be rinsed out off site. Where it occurs that a construction route or a proposed improvement occurs within a trees (prz) it may be necessary dependent upon the type of construction and equipment used, to install a root protection bridge (i.e. 24" layer of wood mulch) or approved equivalent, this may be determined in the field at the direction of the landscape architect.

Any tree that must have branches removed shall be trimmed with sharp instrument/tool that is intended for such operations. Consult landscape architect prior to trimming. Knocking branches off with a back hoe or other similar machine is not acceptable! Refer to tree trimming detail on this sheet for trimming procedure.

Where root cutting is necessary on trees which are to remain, the roots shall be vertically cut with a sharp instrument or trencher prior to excavating soil around to roots.

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 47, 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 joints where necessary to provide thrust restraint at fittings, bends, tees, valves, ends of directionally drilled sections, etc. Thrust blocks will not be permitted. The contractor is responsible for determining the required number of restrained joint fittings to provide adequate thrust restraint at each location.

All water valves being abandoned shall have the cans removed. Removals are subsidiary to "Removal of Existing Structures".

The bid item "Water Meter Adjusted" will involve removal of the existing box, ring and lid and installing a new box, ring and lid at the final surrounding grade at a location near the existing meter. Removals are subsidiary to "Removal of Existing Structures".

The bid item "Short Service" and "Long Service" will involve installing a new meter, box, ring and lid as near to the existing meter as practical. The station and offset noted in the Summary of Quantities are to the existing meter. The work will include installation of a new service line between the meter and the water main. Existing corporation stops on the existing mains shall be re–used. The existing meter, box ring and lid is to be removed. Removals are subsidiary to "Removal of Existing Structures".

Work required for the bid item "Manhole, Adjusted" shall include adjusting the elevation of the manhole ring and lid to match the final required plan grade in accordance with the City's standard specifications. Manholes to be adjusted belonging to private utility companies within the proposed pavement will be included under this bid item. No change in bid price will be made for manhole adjustments regardless of manhole type, size or ownership.

Work required for the bid item "MH Adjusted w/ New Ring & Cover" shall include providing a new City–standard ring and lid in addition to adjusting the elevation of the manhole ring and lid to match the final plan grade in accordance with the City's standard specifications.

The contractor shall confirm the size, shape and location of the existing 60" storm sewer on the west side of Hillside north of Mt. Vernon prior to construction. Conflicting information between the pipe flow line from the project survey and top of pipe measurements from actual field investigations suggest the pipe may not have standard shape or thickness.

Contractor shall confirm the location of existing storm sewers prior to constructing inlets that are to connect to existing storm sewers. Inlets may be adjusted slightly to help provide connections if approved by the engineer.

Due to the shallow depth of existing storm sewers, precast inlet tops may require slight modification from standard design. The contractor and the precast manufacturer shall field–evaluate all proposed inlets prior to constructing inlets. Modified inlet tops shall be submitted to the engineer for approval. See sheet 39 for details pertaining to the inlet on Hillside at Station 50+63.49.

Permanent and temporary pipe plugs on storm sewer pipe are paid for individually as "Pipe, Plug Existing" and "Pipe, Plug Existing, Temporary" and will include the eventual removal of the plug when temporary.

Apply an approved manhole lining system to all sanitary sewer manholes noted on the paving plan sheets. These manholes are brick all the way down to the main.

Approved manhole lining systems:
Raven 405
Sauereisen 210S
Spectrashield
Warren Environmental S301
Zebron
Sherwin–Williams Dura–Plate 6100
Sherwin–Williams Sherflex

All lining materials shall be applied per manufacturer's specifications and recommended thickness for brick or precast manholes. Cleaning, filling of voids, removal of steps flush with the interior manhole surface, and other preparations to the manhole walls shall be included in the bid item for the lining. Mortar used to patch gaps in brick walls shall conform to City Standard Specifications.

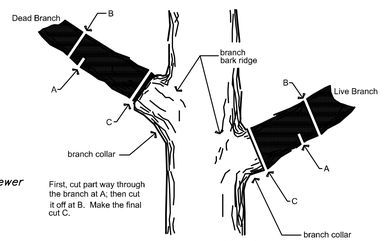
PROJECT SURVEY CONTROL:
1) The Project Horizontal Datum is based on the NAD83, Kansas State Plane Coordinate System, South Zone, (US Survey Feet Definition), with a Combined Adjustment Factor (CAF) of 1.000120014. All coordinate and dimensions shown on these plans are modified to Ground values.

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.

The contractor shall be responsible for maintaining continuous flow of sanitary sewage through construction. Contractor's proposed method for maintaining sewage flow shall be submitted and approved by the Sewer Maintenance Division (316–268–4073) prior to starting and bypassing sewage flows. Flow data in the existing 24" sanitary sewer is provided in the special provisions.

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
FOC (ATT) – AT&T
FOC (KFN) – Kansas Fiber Network
FOC (LEVEL3) – Level 3 Fiber
FOC (ZAYO) – Zayo Group



TREE TRIMMING DETAIL
NOT TO SCALE

MKEC
Wichita, KS • 316-684-9600

STREET IMPROVEMENTS FOR

MT. VERNON & HILLSIDE INTERSECTION

PAVING PLANS

GENERAL NOTES

PROJECT NO.	472-85286
DATE	DATE
SCALE	NONE

DESIGNED	DRAWN	CHECKED
JRA	RAM	JRA

NO.	REVISION	DATE

SHEET NO.
2 OF 101