

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472-84595	2008	2	43
KDOT PROJECT NO. 87 N-0360-01				

GENERAL NOTES

DESIGN DATA

CONSTRUCTION SPECIFICATIONS: Kansas Department of Transportation, Standard Specifications for State Road and Bridge Construction, 2007, English Version, Kansas Department of Transportation Special Provisions and City of Wichita, Standard Specifications for the Construction of Public Projects.

BRIDGE DECK DELAMINATION SURVEY: A bridge deck delamination survey was completed on June 27, 2006 by agents representing the Engineer. The results are included in this set of plans and are to be considered as an estimate of the area(s) of unsound concrete. The exact areas are to be determined by the Contractor before, during and after the removal operation to assure that all areas of unsound concrete have been located and removed.

REMOVAL OF EXISTING STRUCTURE: All materials removed from the existing structure, except the bridge handrail, shall become property of the Contractor. Remove this material from the site. Plans for the existing structure are on file in the City Engineering Department Office and are available for inspection by qualified bidders.

EXISTING HANDRAIL: The existing handrail shall be removed and salvaged to the City of Wichita.

BROKEN CONCRETE: Waste the broken concrete from the existing bridge on sites provided by the Contractor and approved by the Engineer. All necessary permits or agreements required to dispose of waste material will be the responsibility of the Contractor.

EXISTING DIMENSION VERIFICATION: Dimensions of the existing structure are based on old plans. Verify, by field measurement, the as-built dimensions of the existing structure and submit such verification in writing to the Engineer. The verification will include sketches, drawings, photographs and descriptions as needed to clearly define the as-built dimensions that will be incorporated in the new construction.

BRIDGE EXCAVATION: All excavation shall be Class III. See the Bridge Excavation sheet for the limits of pay excavation.

BACKFILL COMPACTION: Compact backfill at the abutments.

DIMENSIONS: All dimensions shown on the design plans are horizontal dimensions unless otherwise noted. Make necessary allowances for roadway grade and cross slope.

CONCRETE: All Superstructure concrete is bid as Concrete (Grade 4.0)(AE)(SA). Bevel all exposed edges of concrete with a 3/4" triangular molding, except as otherwise noted on the plans. Construction Joints are optional with the Contractor, but if used, place only at locations shown, or at locations approved by the Engineer.

REINFORCING STEEL: All reinforcing steel dimensions are to the centerline of bars unless otherwise noted. All new reinforcing steel shall conform to the requirements of ASTM A615-96, Grade 60. All existing reinforcing steel shall remain in place unless otherwise noted or is sufficiently deteriorated. Any reinforcing steel cut or damaged by the Contractor during concrete removal shall be replaced at no additional cost to the City. Where non-coated bars come in contact with epoxy coated bars, they need not be coated.

CORRAL RAIL: The contractor may place the corral rail continuously from one end of the bridge to the other.

DRILL & GROUT: This item shall consist of grouting reinforcing steel into the existing concrete, where required by the Engineer, with an epoxy grout. Locate each hole with the aid of a pachometer to miss the existing reinforcing steel. Drill the holes to the specifications required by the grout manufacturer and in such a manner as not to damage adjacent concrete or bars. After the hole is drilled, remove all loose material by using a wire brush to free the dust from the side of the hole and then vacuuming to remove material and dust. Follow the manufacturer's directions for mixing, application and curing. The tools, materials, labor and incidentals necessary to complete the work shall be included in the bid item "Drilling & Grouting".

CONSTRUCTION JOINTS: The construction Joints shown are optional with the Contractor. If used, place the construction Joints only at locations shown or at locations approved by the Engineer.

SILICA FUME OVERLAY: Place a 1/2" Silica Fume Overlay over the entire deck surface as shown on the plans.

RIPRAP (Light Stone): Place Riprap (Light Stone) to the limits and thicknesses shown on the plans or as directed by the Engineer, including toewalls and filter course per City of Wichita standard specifications.

CONSTRUCTION LOADS: Construction loads on the bridge deck will be limited to loads approved by the Engineer. Proposed equipment and methods used to place the barrier and the Silica Fume Overlay shall be submitted to the Engineer for review. Information that defines the construction equipment axle weights and spacings shall be included in the submittal.

BRIDGE NUMBER PLATES: The existing Bridge Number Plates shall be thoroughly cleaned and reset at the same corner as they were removed. This work shall be subsidiary to Concrete (Grade 4.0)(AE)(SA).

SITE CLEARING: Trees and shrubs in the public Right-of-Way which are in direct conflict with proposed new construction shall be removed by the Contractor with the Engineer's approval. Trees and shrubs which are not in direct conflict with proposed construction shall be saved and protected from damage.

RIVER PROTECTION: The Contractor shall execute his work in such a manner and take such precautions as necessary to prohibit the falling of broken concrete and other debris into the Little Arkansas River. The methods or protection, such as catch platforms, proposed by the Contractor shall be approved by the Engineer. (No Separate Payment).

COMPACTION: The compaction requirement for the sidewalk construction will be 6" of (Type B)(MR-90). The compaction requirement for the approach slab will be 6" of (Type AA)(MR 3-3). All compaction and excavation, except Class III Excavation, shall be considered subsidiary.

TRAFFIC CONTROL: Traffic Control shall be paid for at the lump sum price bid and shall be full compensation for the work as outlined in the plans. This work involves road and sidewalk closure at the site plus a marked detour route.

HOT MIX ASPHALT-(BM-2, PG70-28): Hot Mix Asphalt shall be paid for per square yard and shall be full compensation for the work outlined on the plans. This work shall include saw cutting and removing existing pavement (1 1/2" of A.C. and 5 1/2" Bituminous Base) and the placement of 10" Asphalt to match the new 10" concrete approach slabs.

EXISTING FENCE: The Contractor shall remove and replace existing fence at all four corners of the bridge, as necessary for construction. The Contractor will need to contact each property owner prior to construction, for coordination of this work and to determine if temporary fence is needed during construction. All work associated with the removal and replacement of the existing fences, including new material, if necessary, will not be paid for separately, but considered subsidiary to other items of work under this contract.

SODDING: All areas disturbed by construction behind the existing curb, away from all four corners to the bridge, shall be restored with Bermuda sod, per the respective bid item.

BANK RESTORATION: All disturbed river bank areas shall be restored as follows: seeding to be accomplished during the period of August 15 through March 15 with the following amount and type of seed for the mix at a rate of 8 pounds total per 1000 square feet: 4 pound K-31 Fescue; 2 pounds Western Wheatgrass; 2 pounds Smooth Brome. All seeded areas will also have an approved erosion control mat installed. Cost for all work associated with this item, including seeding, fertilizer (per Standard Specifications) and erosion mat will be subsidiary to the bid item "Site Restoration".

DESIGN SPECIFICATIONS:

AASHTO Specifications, 2002 Edition and latest Interim Specifications. Load Factor Design

DESIGN LOADING:


HS20-44

Design Dead Load includes an allowance of 25 psf for future wearing surface.

UNIT STRESSES:

Concrete (Grade 4.0)(AE)(SA) $f'c = 4,000$ p.s.i. $fc = 1,600$ p.s.i.
Reinforcing Steel (Grade 60) $fy = 60,000$ p.s.i. $fs = 24,000$ p.s.i.

Plotted by : msn 9-3-2008
 Drawn by : msn
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No.	Revisions	By	Date
CITY OF WICHITA BR. NO. 530400870LAR100 STA. 69+55.00 GENERAL NOTES 25TH STREET OVER LAR PROJECT NO. 472-84595 SEDGWICK COUNTY			
 Professional Engineering Consultants, P.A. 303 S. TOPKA • WICHITA, KANSAS 67202 316-262-2691 • FAX 316-262-3003			
Designed by	M.S.N.	Checked by	R.A.S.
Drawn by	M.S.N.	Date	Apr 11 2008 Job No. 06008