

S-803 PERMANENT SIGNING: All signs shall conform to the requirements of the current editions of the Manual on Uniform Traffic Control Devices (MUTCD), and Standard Highway Signs by U.S. Department of Transportation, Federal Highway Administration. A complete list of pre-approved sign materials is available at the office of the City Engineer or can be found on the City of Lenexa's internet website at www.lenexa.com.

- A. MATERIALS AND EQUIPMENT: Sign blanks shall be aluminum and shall conform to ASTM B 209. The aluminum material shall be one of the following alloys: 6061-T6, 6063-T6, 5154-H38 or 5052-H38. Sign material thickness shall be 0.125" for signs larger than 30" x 30". Signs 30" x 30" and smaller shall be 0.080" thick. Guide sign blanks shall be 0.125" thick.
1. All signs shall be fully reflectorized with high intensity prismatic sheeting or better. Screen-printed signs are not acceptable and shall not be used. Signs containing black lettering and/or symbols shall no longer be made of black vinyl. Instead, signs containing black, blue, red or green lettering and/or symbols shall be made with EC Film. All sign hardware shall be galvanized or stainless steel. Sign banding shall be 3/4" stainless steel. If the sign is mounted to a black or a brown pole, the sign banding shall be stainless steel and both the banding and the back of the sign shall be powdercoat-painted, as per manufacturer specifications, to match the color of the pole. Sign and post hardware shall be subsidiary to the Permanent Signing bid item.
 2. With the exception of the advance street name signs, all sign posts shall be 2" square galvanized steel with 3/8" diameter holes at 1" spacing's on all sides. All 2" posts shall include one 2.25" square by 36" long steel anchor and one 2.5" square by 18" long steel sleeve and special bolt and nut combination to allow 90° installation. Sign posts for advance street name signs shall be 2.5" and shall be manufactured by Xcessories brand sign posts, or approved equal. All post components when assembled shall form an approved breakaway system. All components shall be galvanized. See pre-approved list of materials for more information.
 3. Sign posts for STOP signs shall be 12 feet long. STOP signs shall be mounted such that the top of the sign is placed 20 inches below the top of the sign post with a minimum of 7' from the bottom of the sign to the ground line. This extra extension above the STOP sign will be used to mount the street name signs.
 4. When end of road markers are used, the signs shall be mounted to Telespar posts, not u-channel posts.
 5. When advance street name signs (i.e. Next Signal signs) are used, the signs shall be mounted to Xcessories brand sign posts, or approved equal. Refer to the City's most current pre-approved list of materials for information regarding posts mounted in the soil or posts mounted in concrete. Prior to the installation of the advance street name signs, the Contractor shall discuss the location of these signs with the Project Inspector to ensure that the signs are placed within the right-of-way and do not conflict with sidewalks and trails. If the greenspace between the back of curb and the edge of the sidewalk is not wide enough to accommodate the advance street name sign and if there is minimal right-of-way behind the sidewalk to place the sign, the advance street name sign shall then straddle the sidewalk. The sign posts shall be located at least one foot (1') from the edge of the sidewalk to the sign posts. Additionally, the bottom of the sign shall be a minimum of 8 feet from the top of the sidewalk to the bottom of the sign.

6. On Capital Improvement Program (CIP) projects, the Contractor shall be responsible for the fabrication and installation of street name signs, as shown on the plans. The Contractor shall submit scaled shop drawings of the proposed street name signs prior to fabrication for review and approval by the City. The shop drawings shall include details such as sign and lettering dimensions as well as type of font. On non-CIP projects (i.e. public improvement projects driven by private development), the Contractor shall purchase the street name signs from the City at a cost of \$125 per street name sign. The City will then install the permanent street name signs.
7. The Contractor shall maintain all existing signs within the project limits that are to remain whether they're shown on the plans or not. At the onset of the project, the Contractor should verify and document the condition of each sign that is to be re-used and/or remain in place. The Contractor shall be responsible for the appropriate care of all existing signs that are to be re-used and/or remain in place throughout the duration of the project. Any signs that are damaged, lost or stolen shall be replaced by the Contractor with new signs at the Contractor's expense. Any existing street name signs that are damaged, lost or stolen shall also be replaced with new signs by the Contractor at the Contractor's expense. For non-CIP projects, the Contractor will be required to purchase the street name signs from the City at a cost of \$75 each to replace a permanent street name sign.
8. Whether the road has been officially opened to traffic or not, temporary street name signs shall be installed and maintained by the Contractor once any type of pavement has been placed on the roadbed and the passage of vehicles is allowed. "Any type of pavement" includes a single lift of asphaltic concrete base. Temporary street name signs shall consist of minimum 6" white lettering on green background mounted a minimum of 7 feet from the top of the nearest edge of pavement to the bottom of the sign at or near each intersection. Street name signs shall be double-sided. The minimum height of the sign shall be 12 inches and will vary in length. The sign may be made of wood, metal or plastic and shall be mounted on wood or metal posts. The street names shall match the names on the approved plat. The Contractor shall maintain these signs through the duration of the project.
9. For sign assemblies that are mounted in the median nose, the Contractor shall install a 4" PVC sleeve in the median nose as shown on the City's standard detail entitled, "Median Nose". The PVC sleeve shall extend through the full thickness of the median nose.
10. The removal and resetting of existing signs shall be subsidiary to the Permanent Signing bid item.

B. METHOD OF MEASUREMENT: "Permanent Signing" (for all signs with the exception of advance street name signs) shall be measured per each completed and accepted installation in place. Sheeting, blanks, nuts, bolts, posts, excavation and backfill, driving, labor, equipment, tools, and other items necessary to complete the installation shall be subsidiary to "Permanent Signing" and shall not be measured separately. For advance street name signs, the bid item "Advance Street Name Sign" shall be measured per each completed and accepted in place. Sheeting, blanks, nuts, bolts, posts, excavation and backfill, concrete, driving, labor, equipment, tools and other items necessary to complete the installation shall be subsidiary to "Advance Street Name Sign".

C. BASIS OF PAYMENT: "Permanent Signing" and/or "Advance Street Name Sign" shall be paid for per each sign, measured as stated above, except in the case of a Traffic

Signal Installation project wherein the signing costs will be subsidiary to the Lump Sum cost of the Traffic Signal Installation.