

## 2024 DESIGN CRITERIA UPDATES

### Summary of Changes

*Revisions and additions in bold italics and DELETIONS*

#### A. STREETS

1. Table 1. Street Criteria: Added new item ***(12) The design of all sidewalks, multi-purpose trails, ADA ramps, and crosswalks shall meet PROWAG.***

#### D. ROUNABOUTS

1. Revised to the following: Roundabouts shall be designed in accordance with the latest edition of the Federal Highway Administration (FHWA) document, Roundabouts: An Informational Guide, (Publication No. FHWA-RD-00-067), the latest edition of the Kansas Roundabout Guide, ***and PROWAG.***

#### E. TRAILS

1. Renamed to MULTI-PURPOSE TRAILS.
2. Revised to the following: Multi-use trails shall be designed in accordance with the latest edition of AASHTO's Guide for Development of Bicycle Facilities ***and PROWAG.***

#### H. STREET LIGHTS

1. Revised the second paragraph to the following: The street lighting design and layout for shall be based on the ILLUMINANCE criteria set forth in the ***latest edition of the*** American National Standard Practice for Roadway Lighting, RP-8-~~14~~, published by the Illuminating Engineering Society and shall include the use of Light Emitting Diodes (LEDs) for all roadway,....
2. Revise the cobrahead classifications and labels to the following:
  - Type Z – typically used on arterials; ~~previously 400w+ HPS equivalent~~
  - Type A – typically used on arterials and collectors; ~~previously 400w HPS equivalent~~
  - Type B – uncommon; not typically used; ~~previously 310w HPS equivalent~~
  - Type C – typically used arterials, collectors; ~~previously 250w HPS equivalent~~
  - Type D – typically used on collectors, in industrial areas, and business parks; ~~previously 150w HPS equivalent~~

- Type E – typically used in industrial areas and business parks; ~~previously 100w HPS equivalent~~
  - Type F – used only in residential areas; ~~previously 100w to 150w HPS equivalent~~
3. Added new paragraph on pg. 16: **Anti-theft devices shall be used on 30' and 40' poles with breakaway bases, unless otherwise directed by the City.**
  4. Revised the first paragraph on pg. 17 to the following: The distribution system shall be underground and installed in conduit. The distribution cable shall be sized so that the voltage drop does not exceed **eight percent (8%)** at any point in the system. The Designer **MUST** submit voltage drop calculations to the City for review before the lighting plans can be approved.
  5. Revised all references of KCP&L to **EVERGY**.

## I. TRAFFIC SIGNALS

1. Revised the 4<sup>th</sup> paragraph on pg. 18 to the following: When pedestrian signal heads are used, signal poles with push buttons should be placed at locations that are convenient to the pedestrian. However, the City does not require that poles be aligned with the crosswalk locations. Signal poles within two feet of a sidewalk or ADA ramp shall have top-of-footing elevations called out on the plans. **In addition, push buttons shall be audible as per PROWAG requirements.**

**All signal poles and controllers shall be shown on the intersection detail sheet(s).**

2. Added the following to the end of paragraph 6: **, except when the intersection road has a right-turn lanes and/or the crosswalk is skewed. When the crosswalk is skewed and one end is located a significant distance from the intersection road, the City suggests placing the FRONT of the loop in the middle of the crosswalk in order to minimize the excessive amount of loop in front of the stop bars. In other words, for a 6' wide skewed crosswalk, place the front of the loop 3' into the crosswalk.**
3. Revised the 2<sup>nd</sup> paragraph to the following: The Designer shall coordinate and verify the location of the proposed secondary service point with the appropriate utility company to ensure availability of service. For projects within **EVERGY's** service area, the Designer shall include the conduit AND the service/power cable from the secondary service point to the meter on the controller in the plans as the Contractor is now required by **EVERGY** to install the cable and the conduit. A 2-inch conduit shall be used when **EVERGY** is providing the power.; ~~a 3-inch conduit shall be used when Westar is providing the service.~~
4. Revised Astro-Brackets 4<sup>th</sup> paragraph pg. 24 to **Sky-Brackets**.

#### L. TRAFFIC CONTROL

1. Added the following paragraph: ***Temporary alternate pedestrian accommodations are required per PROWAG. The temporary route shall have a smooth surface and audible guide for visually impaired pedestrians.***

#### T. PLAN SHEETS

1. Table 25. Bid Items Table, Added bid item ***131 AGGREGATE BASE (AB-3)(PUGGED)***.
2. Traffic Control Plan Sheet, Revised the 19<sup>th</sup> bullet point to ***Traffic*** Detour Plan (if applicable).
3. Traffic Control Plan Sheet, Added new 20<sup>th</sup> bullet point: ***Pedestrian Detour Route (if applicable)***.