



**STRIPING & SIGNING PLAN CHECKLIST**

Date:

KIVA No:  DSD CCPR or CSPP No:

Project Name:

Reviewed By:  Phone Number:

Engineer:  Phone Number:

The purpose of this checklist is to offer comments on plan design for the installation of striping & signing within public right-of-way. Source of striping/signing and related construction in the public right-of-way design policy are the latest version of City of Phoenix Specifications and Details, MAG, AASHTO, MUTCD, and City of Phoenix striping and signing standards (Design Procedure Manual).

This checklist serves to minimize redline comments on the check prints and to maintain consistency of the plan review process for striping/signing and related construction in the public right-of-way. Plan approval, and issuing permits depend on the compliance with the comments made on the check prints and this checklist. The engineer of record shall satisfy themselves of the completeness and accuracy of the design.

Please return this checklist and the check prints with your next submittal. Discussion of redlines comments on plans or this checklist should be directed to the plan reviewer listed above.

Plan approvals are valid for a period of one (1) year from the date of the approval signature. If time lapses before construction begins, plans must be resubmitted for an extension or to be re-signed.

**The following symbols are used to identify changes needed to the plans.**

[X] REQUIRED                      [√] O.K.

**GENERAL REQUIREMENTS:**

- Contact the City of Phoenix Public Records Department for copy of existing striping plans if available (<https://www.phoenix.gov/pio/public-records>), otherwise the striping plans will need to be redrawn.
- Obtain most current standard details and AutoCAD standards from The Street Transportation Department ([Jessica.Lord@phoenix.gov](mailto:Jessica.Lord@phoenix.gov)).
- Submit PDF plans electronically via the City of Phoenix EPR process; select Civil > Commercial > Signing & Striping.
- The final AutoCAD 2018 or newer source file is required upon approval of the PDF plans. Email the AutoCAD files to [Jessica.Lord@phoenix.gov](mailto:Jessica.Lord@phoenix.gov).

- Provide a copy of CTB plot file if different than the one provided by the City of Phoenix.
- All striping drawing plots will be plotted at 1 = 40.
- Block symbols shall be per current City of Phoenix AutoCAD standards specifications and Design Procedure Manual.
- City of Phoenix Street Transportation Department layer standards must be maintained per the current AutoCAD standards.
- City of Phoenix Street Transportation Department line types must be used per the current AutoCAD standards.
- City of Phoenix Street Transportation Department paint template must be obtained and used (File "Paint.dwt").
- Use **Stylus BT** text style.
- Dimension text/arrow size set to 3.
- Street name text height set to 5.
- Scale factor of 1 for all inserted blocks.
- All other text other than street names set to 3.
- Show all street names and label all driveways as DRIVEWAYS.

### **STRIPING REQUIREMENTS:**

- Verify the existing speed limit.
- Show street width dimension (Face of curb – Face of curb) three (3) times on each segment.
- Show lane dimensions on plans at match lines, at changes in roadway and in the middle of each viewport.
- Is there an intersection involved in which a signal plan is being designed with this project? If yes, make sure that overall striping matches the striping shown on the signal plans.
- All dimensions, cross street names to be shown in model space (TILEMODE = 1).
- Verify that you are showing a bike stencils in bike lane every quarter mile (approx. every 1300'). If bike lanes have a buffer (buffers are 2.5' wide minimum), follow these guidelines:
  - Speed up to 35MPH get spacing OC every 40'.
  - Speeds 40+ get spacing OC every 80'.
  - Buffer widths up to 4' have 45-degree angle hatches (note that the hatch angle is directional, for example, if traffic is moving →, the hatch angle will be / )
  - Buffer widths 4.5'+ use chevron hatches
- When a bike lane is added to the inside of a dedicated right turn lane, the bike lane should be 6' wide, include a green-backed bike stencil in alignment with the right turn lane pavement arrows and include a 100' cat track transition from the curb to the inside bike lane.
- Standard bike lane stencils are green-backed and show a bicycle and an arrow. If a bike lane is ending, the stencil is just the green-backed bicycle (no arrow).
- Pavement Tapers are required when transitioning to different width roadways. The guidelines for pavement tapers are speed limit multiplied by the width of shift if we have no obstructions. A taper of 1200' is ideal but not always obtainable. The pavement taper is more critical at the end of the project vs the beginning. If space is limited in the beginning or if we have obstructions, 1/3L could work and is approved on a case-by-case basis. Example: If we have a 15' shift from new curb and gutter to existing edge of pavement, and the speed limit is 40 mph, we request 15x40 = 600' pavement taper minimum.
- Striping plans need to show at least 150' of existing roadway and striping on both ends of the project as to clearly show how the segments connect.

## **SIGNING REQUIREMENTS:**

- Show all the appropriate signs as a callout references the sign number; include a graphic and the name of the sign in sign legend. Follow City of Phoenix and MUTCD sign standards.
- When a bike lane is added to the inside of a dedicated right turn lane, sign R4-4 shall be installed at the beginning of the 100' bicycle cat tracks.
- Turn lanes that are less than 200' will have one painted pavement arrow placed 50' from the start of the turn lane. Turn lanes that are 200'+ will have two painted pavement arrows, one placed 50' from the start of the lane and one placed 50' from the end.
- Right turn lanes that are less than 150' will have one R3-7R (Right Lane Must Turn Right) sign installed in alignment with the painted pavement arrow. Right turn lanes that are 150'+ will have two signs installed, one next to the first pavement arrow and the second near the end of the turn lane.
- If a signal exists or is being constructed soon, you must call this out on the striping plan. If there are signs installed on mast arms or signal poles, you must show the poles, call out the signs on the plan and show the sign in the sign legend. We understand that this information is also called out on signal plans but since the dept. that installs striping is not the same as the dept. that installs the signal, we need to ensure it's shown on both plans.

## **PAPER SPACE:**

- Title block with name and location of project to be included on all sheets.
- Appropriate processing numbers including KIVA#, City of Phoenix Assigned File #, in lower right corner.
- Stylus BT** text style
- Project street name text height set to 0.14
- Standard North Arrow (STB069). Set scale factor to 1. North Arrow to be placed as needed in model space but must be shown within view ports in paper space.
- Include engineer's name, address, and telephone number in paper space.

As a reminder: The final AutoCAD 2018 or newer source file is required upon approval of the PDF plans. Email the AutoCAD files to [Jessica.Lord@phoenix.gov](mailto:Jessica.Lord@phoenix.gov).